

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029090.D
 Acq On : 09 Jan 2019 15:25
 Operator : MD/SY
 Sample : PB116248ZHE#05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:05:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	112012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	191011	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	181377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69918	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	75484	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	
35) Dibromofluoromethane	4.88	113	66369	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	
50) Toluene-d8	7.57	98	246137	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
62) 4-Bromofluorobenzene	10.31	95	75872	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	

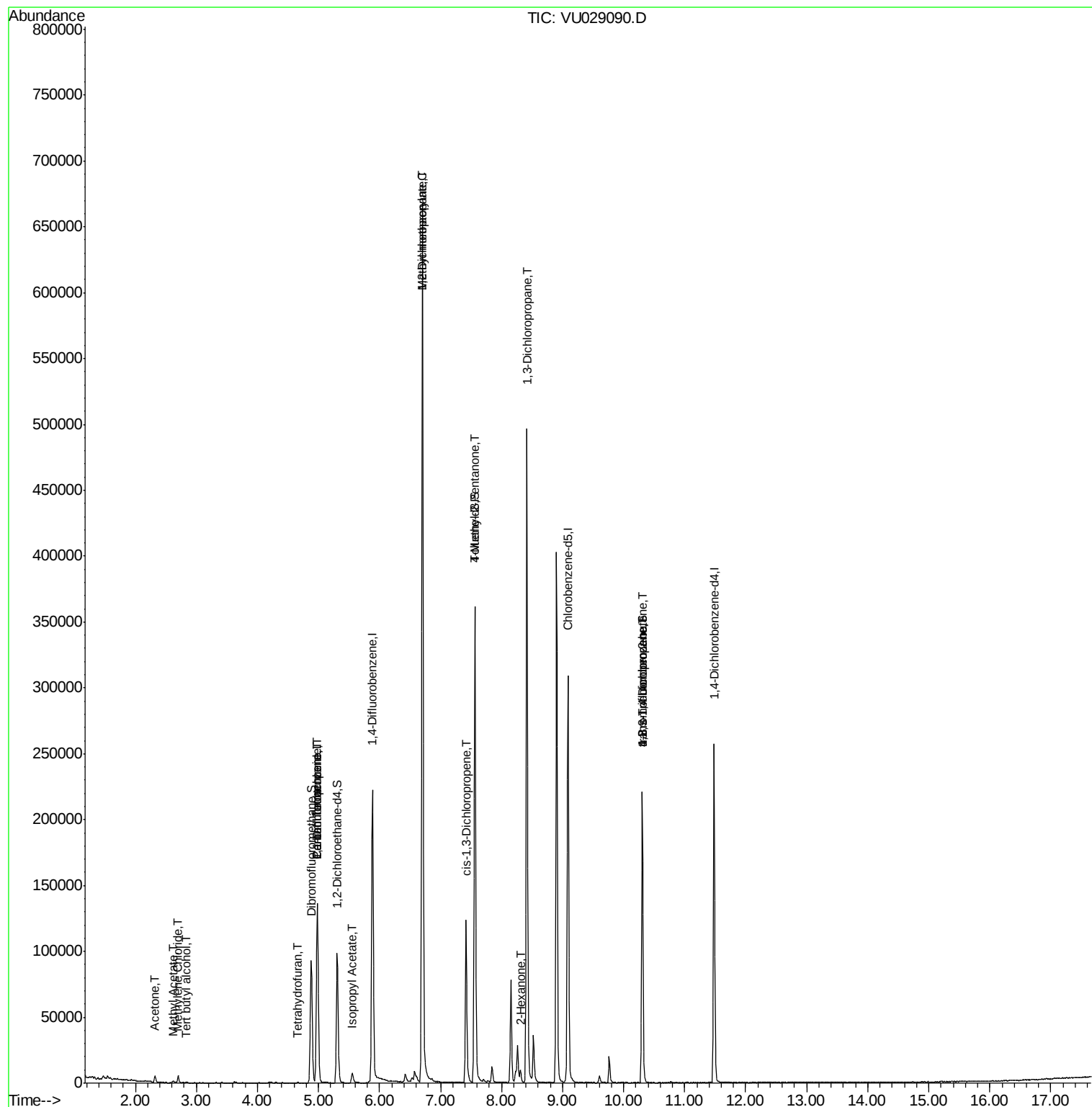
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	848	Below Cal		99
5) Bromomethane	1.63	94	41	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	142	0.403	ug/l #	73
16) Acetone	2.32	43	5762	6.606	ug/l	99
18) Methyl Acetate	2.62	43	2148	1.059	ug/l #	75
20) Methylene Chloride	2.70	84	2284	1.542	ug/l	94
29) Tetrahydrofuran	4.66	42	233	0.326	ug/l #	30
31) Cyclohexane	4.98	56	1887	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8071	4.227	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9919	6.229	ug/l #	17
43) Isopropyl Acetate	5.55	43	9212	2.866	ug/l	97
45) 1,2-Dichloropropane	6.70	63	681	0.433	ug/l #	43
48) Methyl methacrylate	6.70	41	56420	36.043	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4462	2.039	ug/l	98
54) cis-1,3-Dichloropropene	7.42	75	23644	9.840	ug/l #	59
57) 1,3-Dichloropropane	8.41	76	5226	2.103	ug/l #	42
59) 2-Hexanone	8.31	43	7839	4.564	ug/l #	21
76) 1,2,3-Trichloropropane	10.31	75	36530	21.324	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	36530	54.995	ug/l #	100

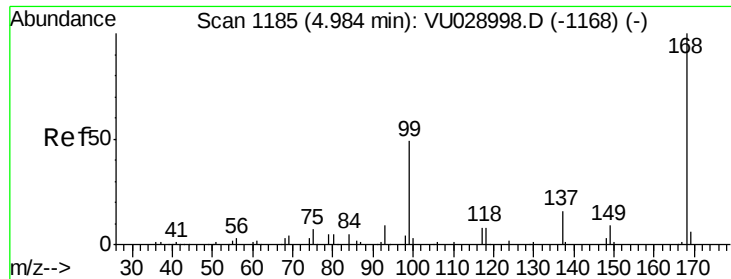
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029090.D

Acq: 09 Jan 2019 15:25

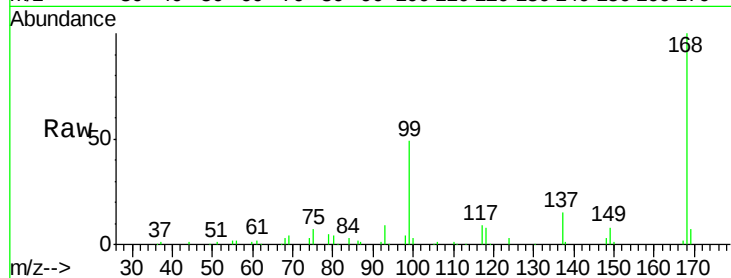
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 112012

Ion Ratio Lower Upper

168 100

99 49.4 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

50000

40000

30000

20000

10000

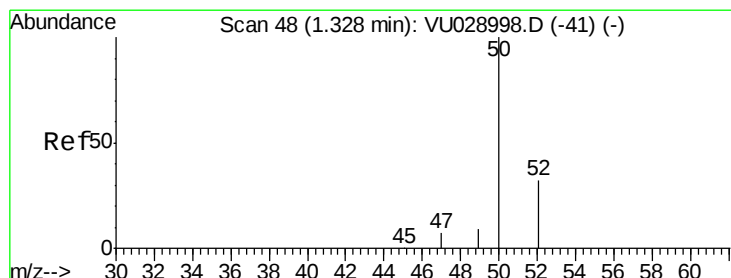
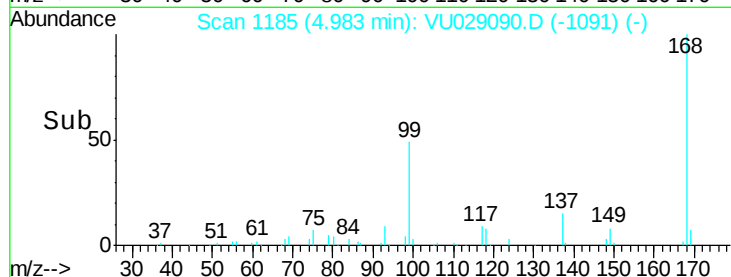
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029090.D

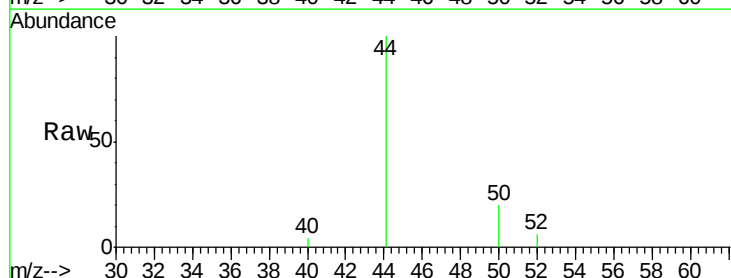
Acq: 09 Jan 2019 15:25

Tgt Ion: 50 Resp: 848

Ion Ratio Lower Upper

50 100

52 32.2 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)

1.33

800

600

400

200

0

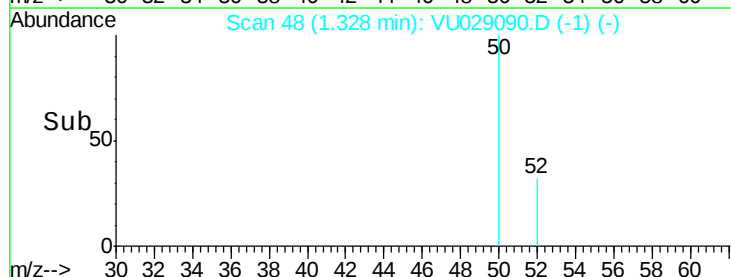
1.30

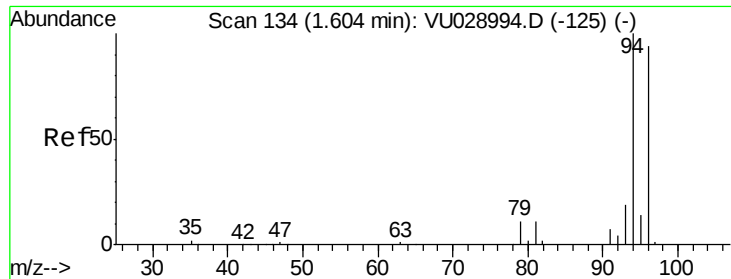
1.32

1.34

1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 143

Delta R.T. 0.03 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Instrument :

MSVOA_U

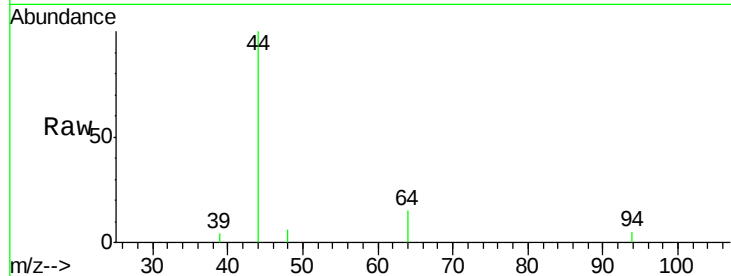
ClientSampleId :

Tot Ion: 94 Resp: 41

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

1.63

100

80

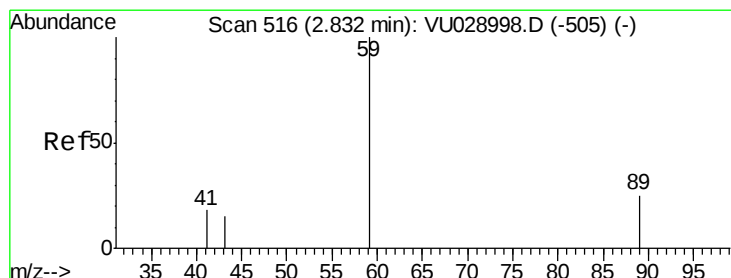
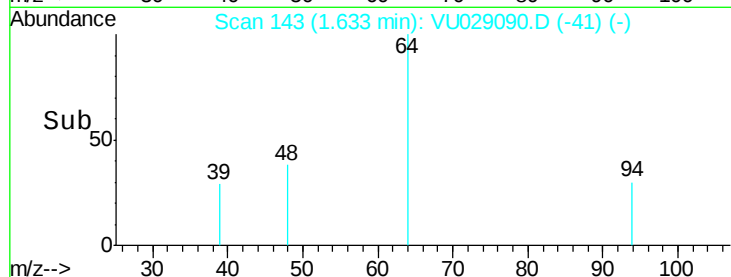
60

40

20

0

Time-->



#11

Tert butyl alcohol

Concen: 0.403 ug/l

RT: 2.83 min Scan# 514

Delta R.T. -0.01 min

Lab File: VU029090.D

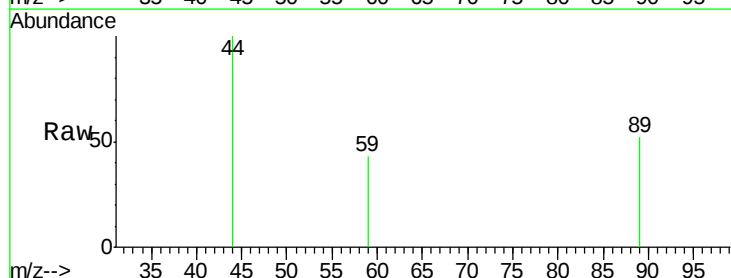
Acq: 09 Jan 2019 15:25

Tgt Ion: 59 Resp: 142

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

2.83

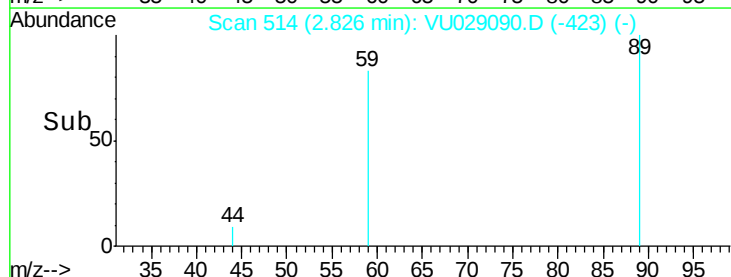
150

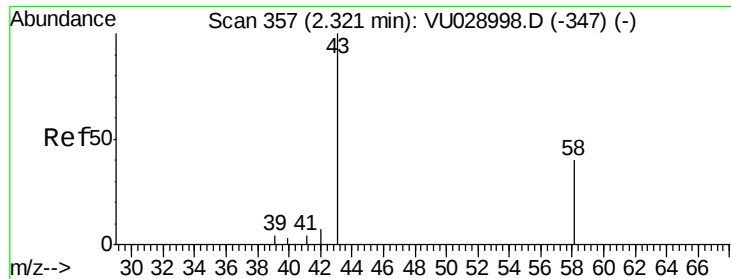
100

50

0

Time-->

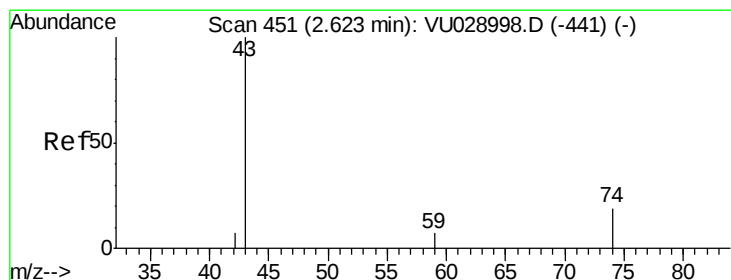
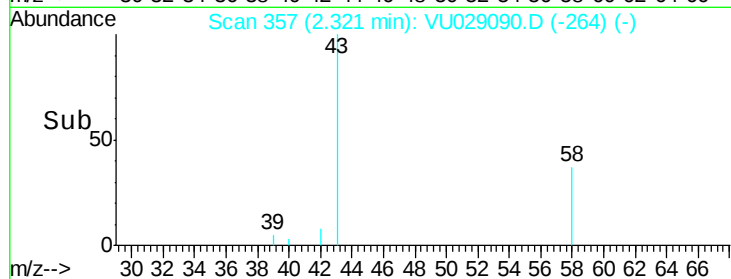
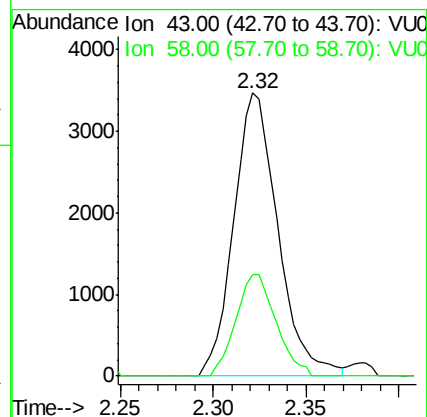
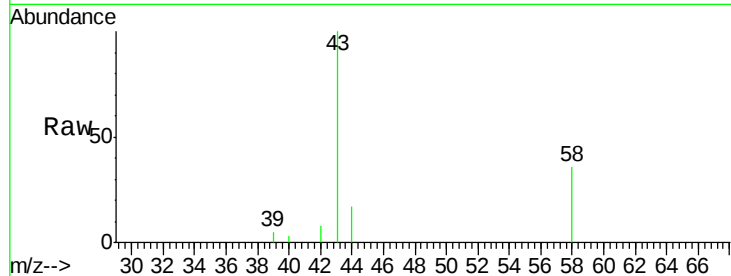




#16
Acetone
Concen: 6.606 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

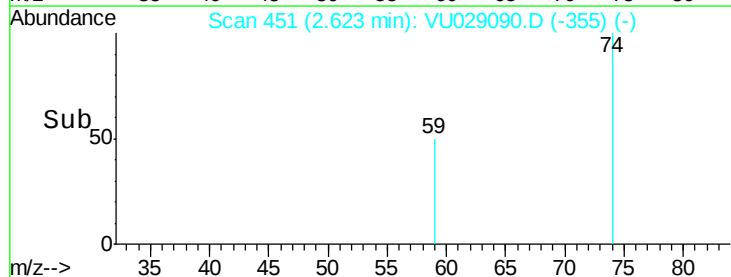
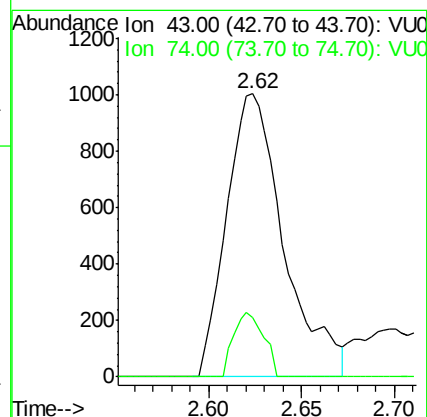
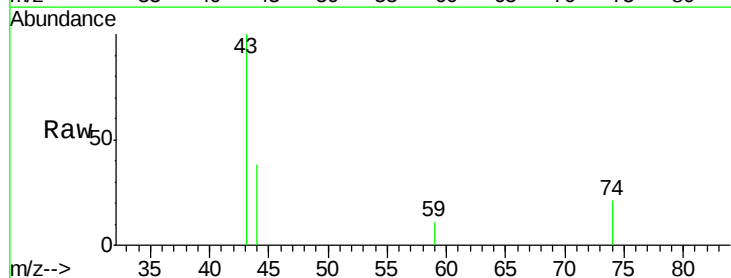
Instrument :
MSVOA_U
ClientSampleId :

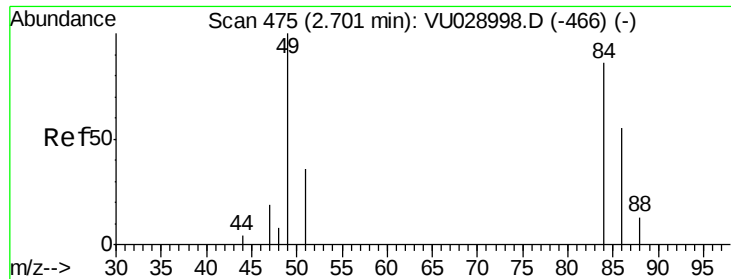
Tot Ion: 43 Resp: 5762
Ion Ratio Lower Upper
43 100
58 36.0 28.6 42.8



#18
Methyl Acetate
Concen: 1.059 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

Tgt Ion: 43 Resp: 2148
Ion Ratio Lower Upper
43 100
74 11.9 19.5 29.3#

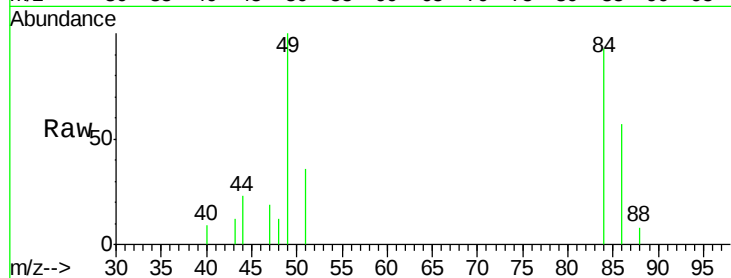




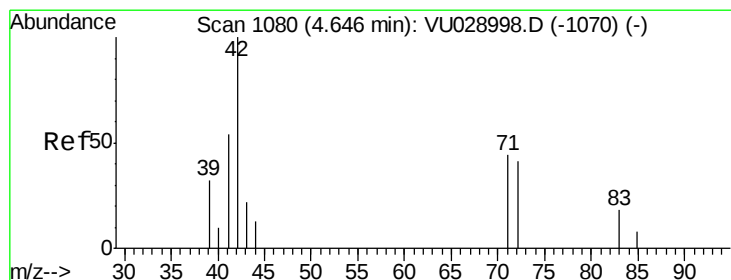
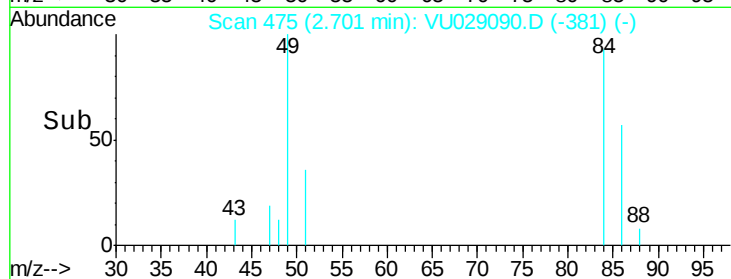
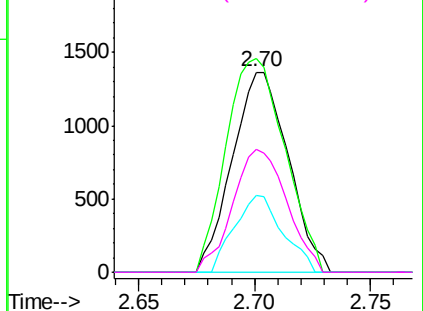
#20
Methvlene Chloride
Concen: 1.542 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 2284
Ion Ratio Lower Upper
84 100
49 107.0 91.9 137.9
51 38.7 29.2 43.8
86 61.4 51.8 77.6

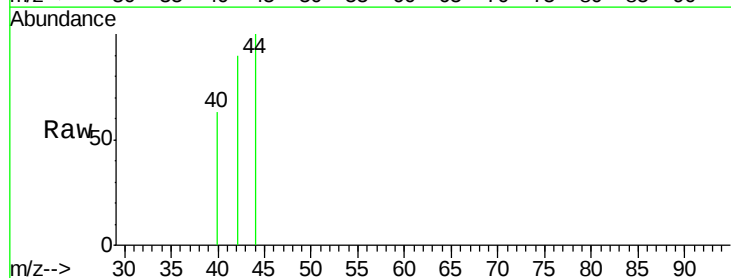


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

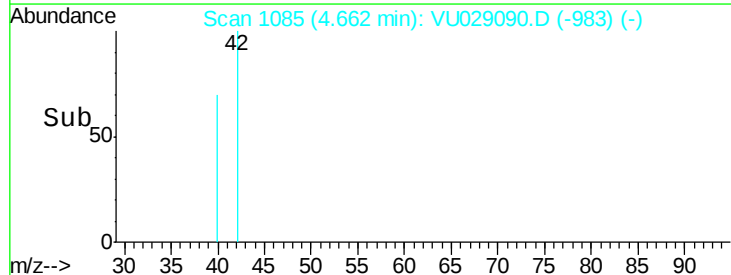
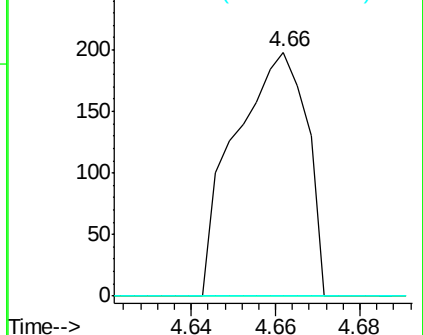


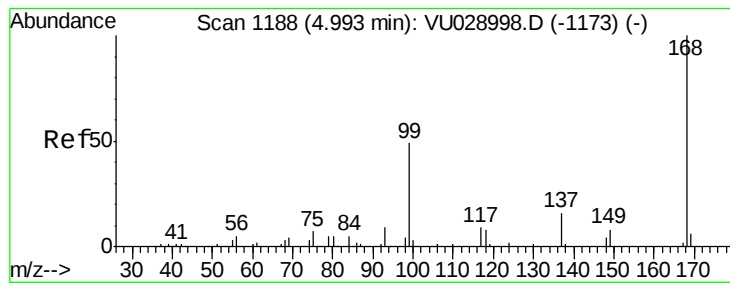
#29
Tetrahydrofuran
Concen: 0.326 ug/l
RT: 4.66 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

Tgt Ion: 42 Resp: 233
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# 1183

Delta R.T. -0.02 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Instrument :

MSVOA_U

ClientSampled :

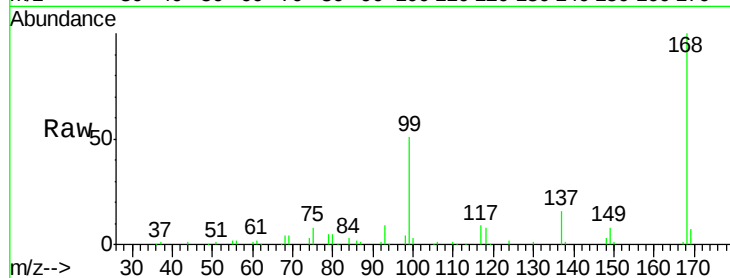
Tot Ion: 56 Resp: 1887

Ion Ratio Lower Upper

56 100

69 209.1 26.7 40.1#

84 171.1 65.7 98.5#

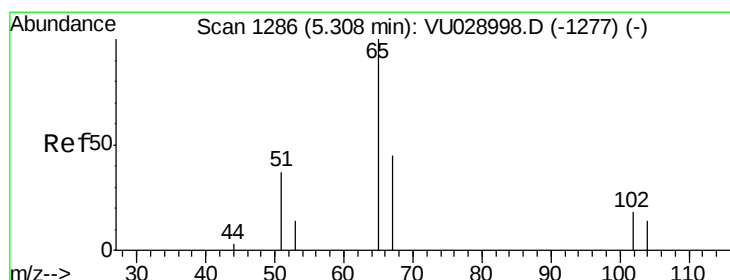
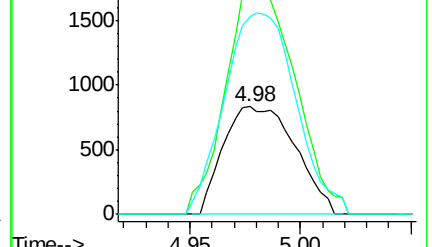
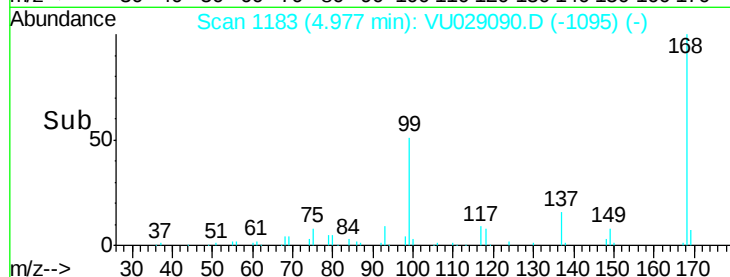


Abundance Ion 56.00 (55.70 to 56.70): VU028998.D (-1173) (-)

Ion 69.00 (68.70 to 69.70): VU028998.D (-1173) (-)

Ion 84.00 (83.70 to 84.70): VU028998.D (-1173) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.513 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029090.D

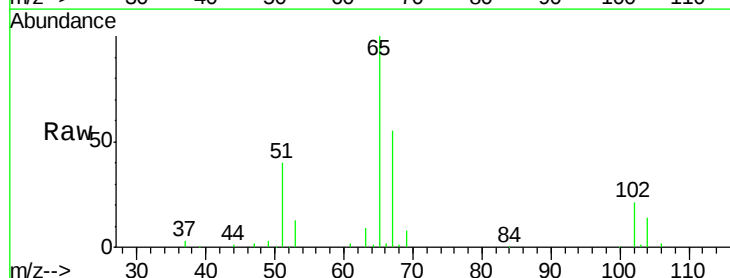
Acq: 09 Jan 2019 15:25

Tgt Ion: 65 Resp: 75484

Ion Ratio Lower Upper

65 100

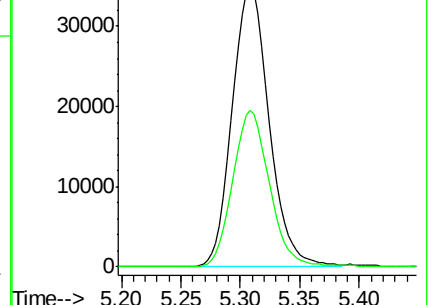
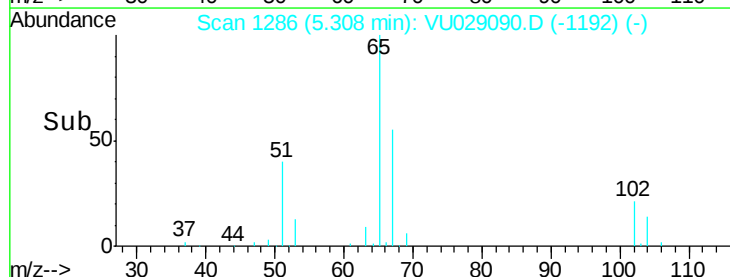
67 55.1 0.0 111.0

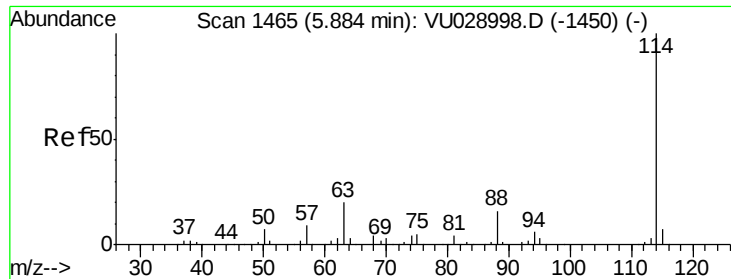


Abundance Ion 64.90 (64.60 to 65.60): VU028998.D (-1277) (-)

Ion 66.90 (66.60 to 67.60): VU028998.D (-1277) (-)

Time-->

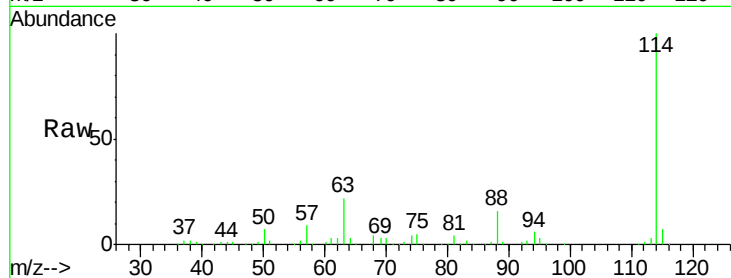




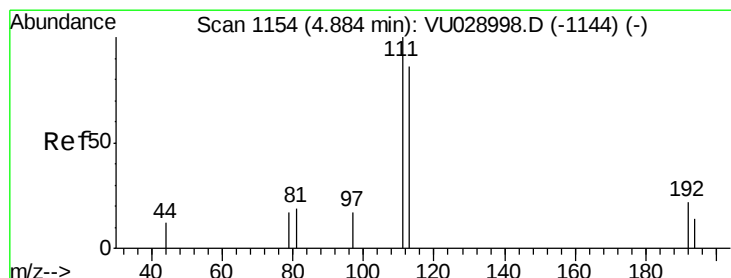
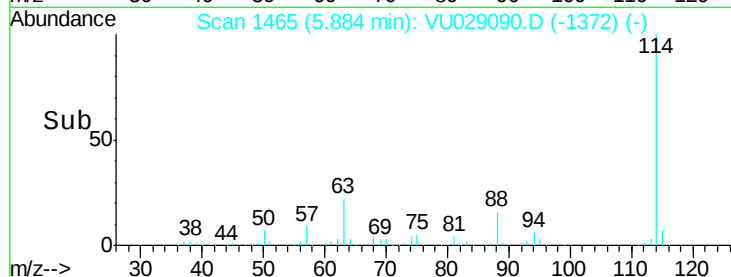
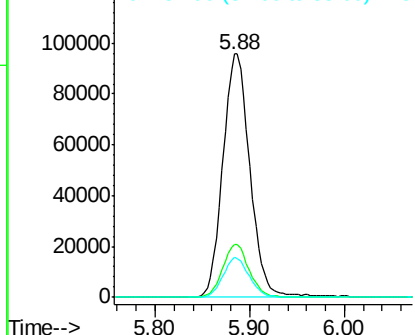
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029090.D
 Acq: 09 Jan 2019 15:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 191011
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 40.2
 88 16.4 0.0 30.4

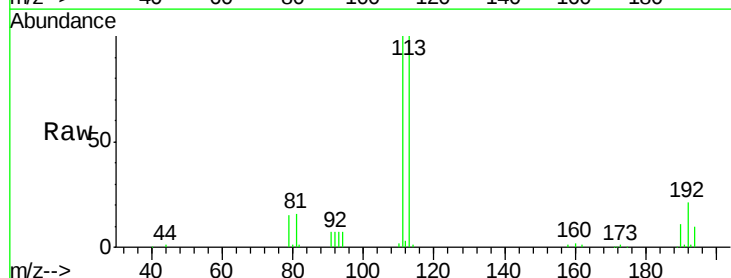


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

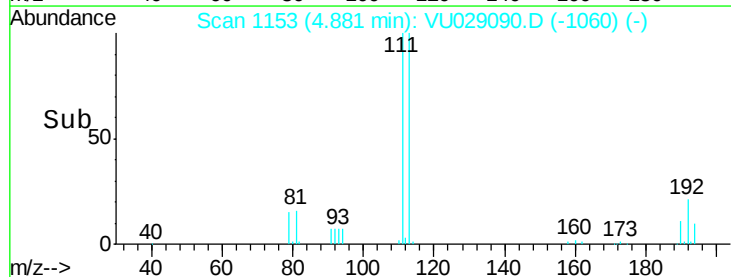
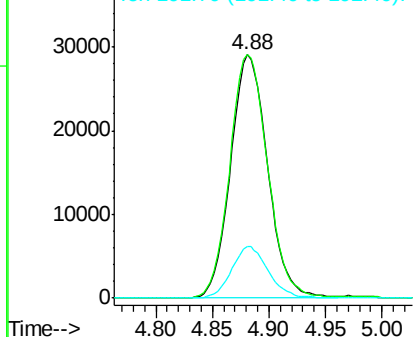


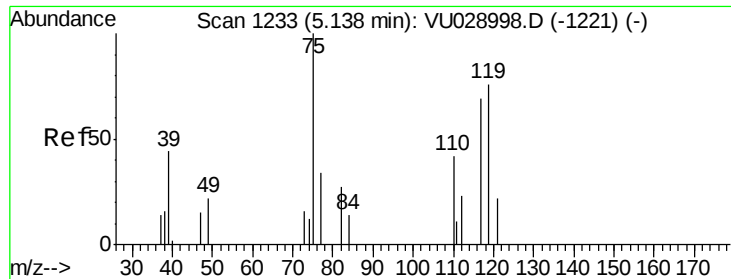
#35
 Dibromofluoromethane
 Concen: 53.602 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029090.D
 Acq: 09 Jan 2019 15:25

Tgt Ion:113 Resp: 66369
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.4 122.2
 192 20.8 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

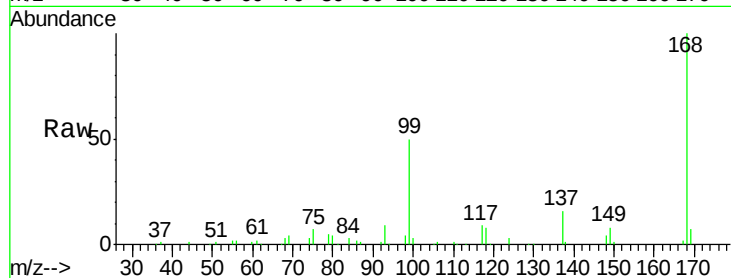




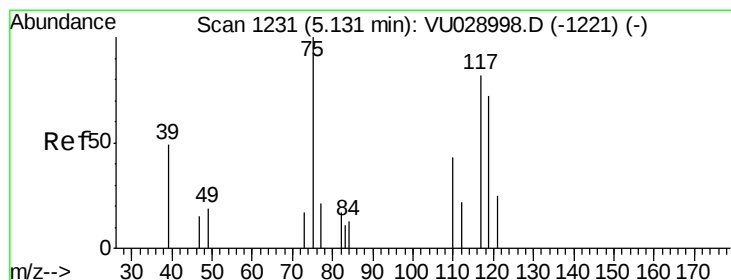
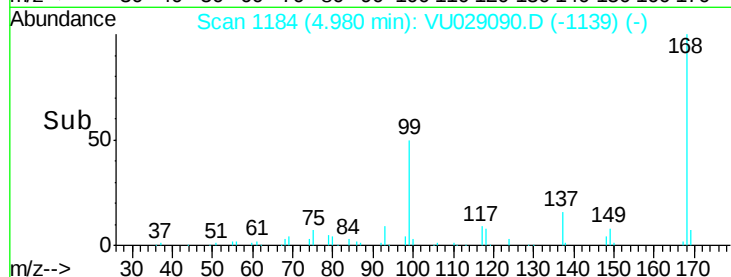
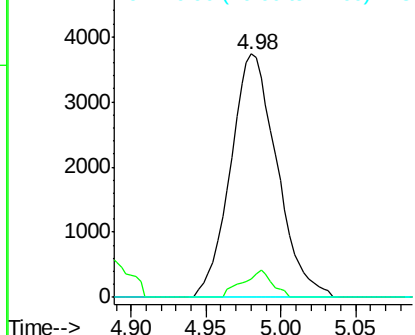
#36
 1,1-Dichloropropene
 Concen: 4.227 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029090.D
 Acq: 09 Jan 2019 15:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 8071
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.4 55.4#
 77 0.0 25.1 37.7#

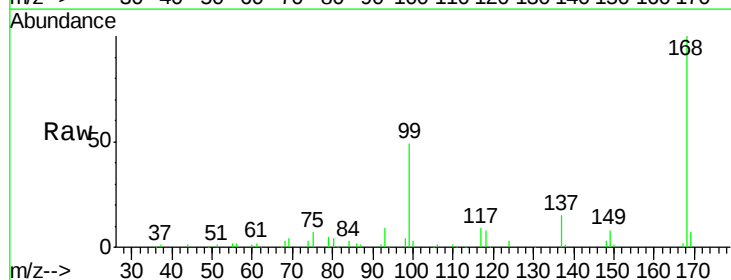


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

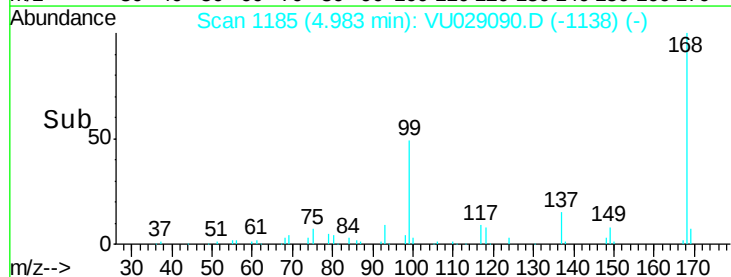
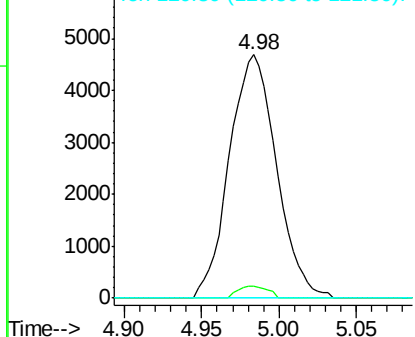


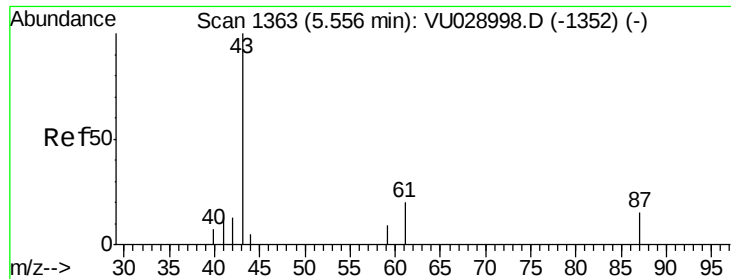
#38
 Carbon Tetrachloride
 Concen: 6.229 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029090.D
 Acq: 09 Jan 2019 15:25

Tgt Ion: 117 Resp: 9919
 Ion Ratio Lower Upper
 117 100
 119 5.0 74.6 111.8#
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VU028998.D (-1221) (-)
 Ion 118.80 (118.50 to 119.50): VU028998.D (-1221) (-)
 Ion 120.80 (120.50 to 121.50): VU028998.D (-1221) (-)





#43

Isopropyl Acetate

Concen: 2.866 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

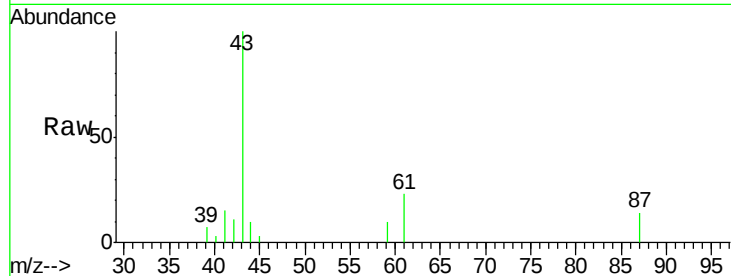
Tot Ion: 43 Resp: 9212

Ion Ratio Lower Upper

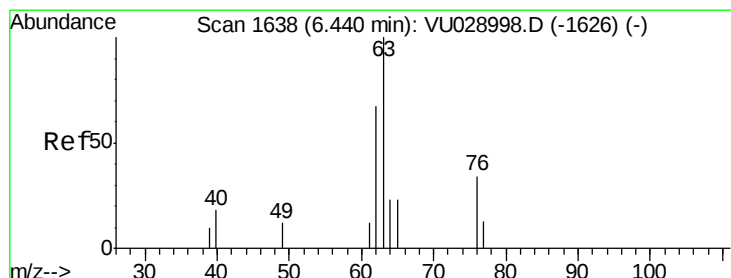
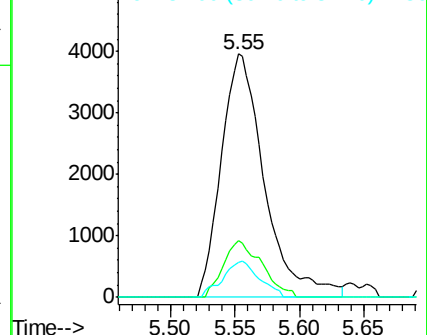
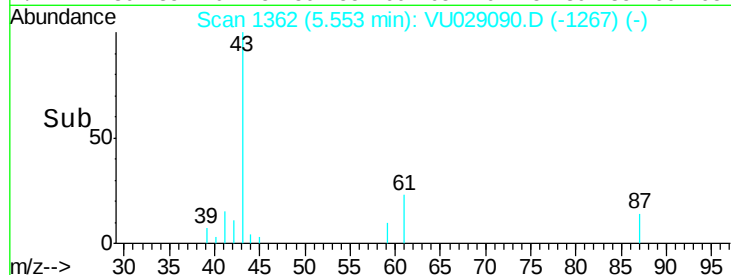
43 100

61 20.7 17.8 26.6

87 12.5 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029090.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.433 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029090.D

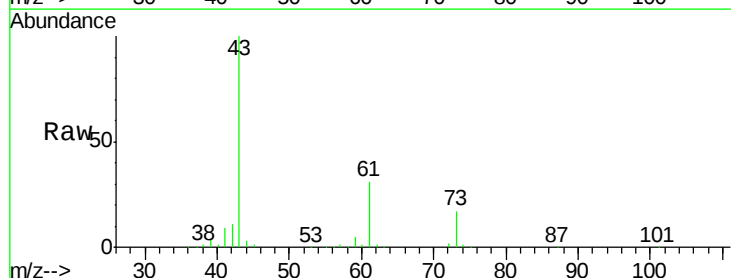
Acq: 09 Jan 2019 15:25

Tgt Ion: 63 Resp: 681

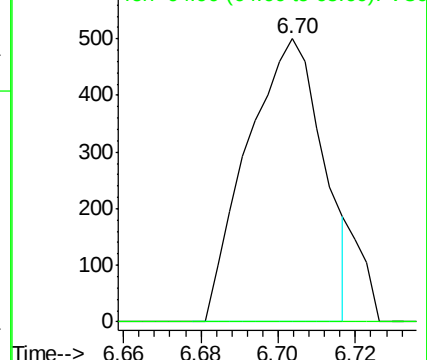
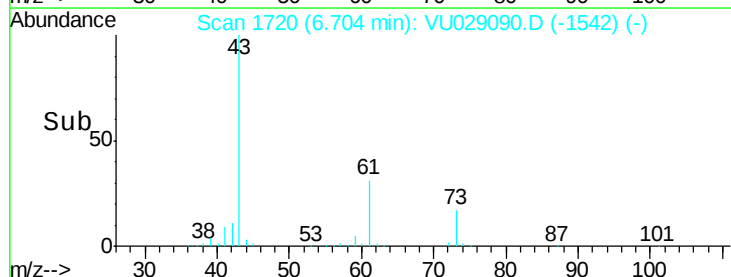
Ion Ratio Lower Upper

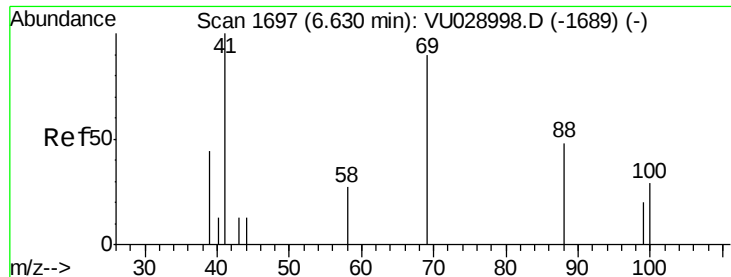
63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029090.D (-1542) (-)





#48

Methvl methacrylate

Concen: 36.043 ug/l

RT: 6.70 min Scan# 1720

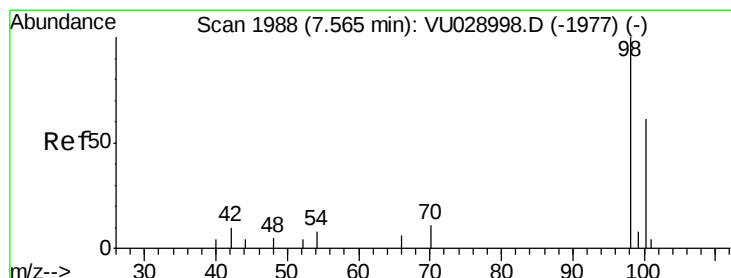
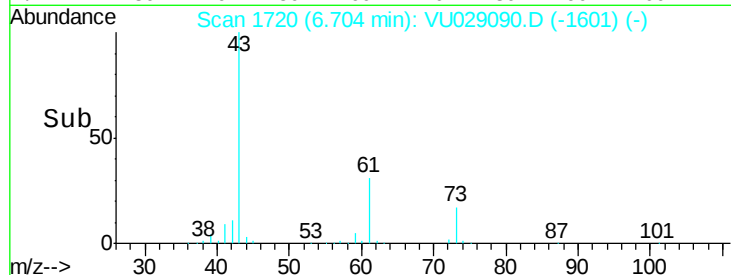
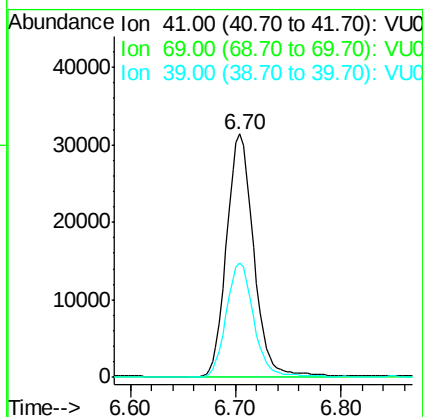
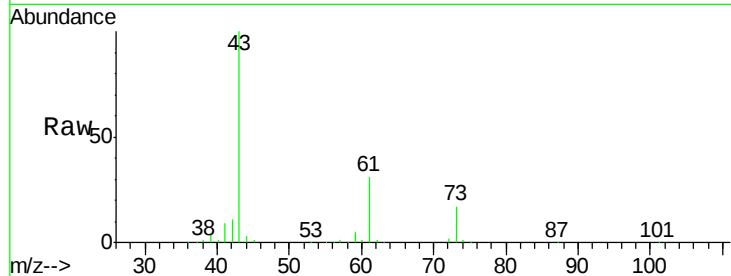
Delta R.T. 0.08 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 56420
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 47.4 39.6 59.4



#50

Toluene-d8

Concen: 50.353 ug/l

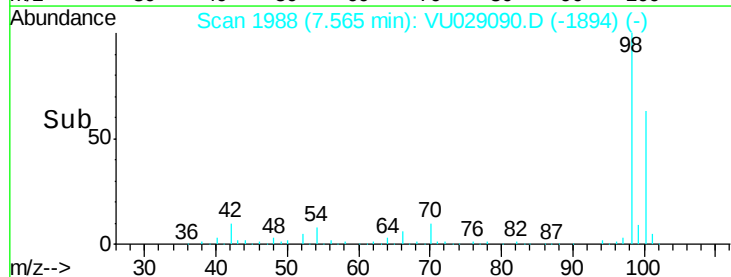
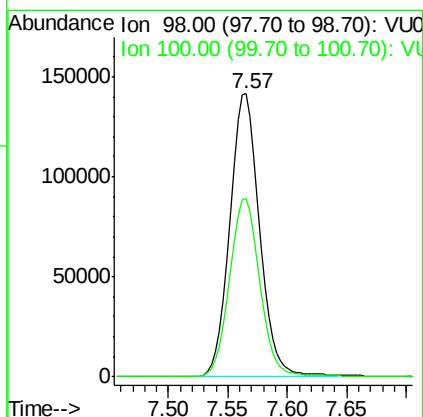
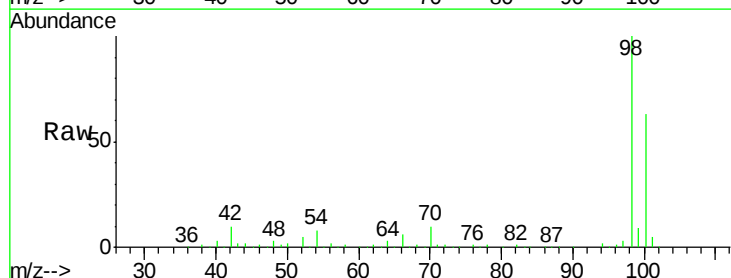
RT: 7.57 min Scan# 1988

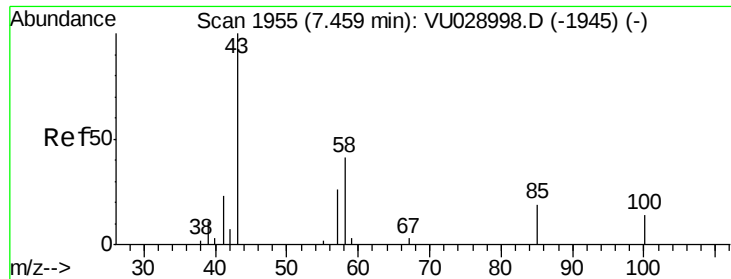
Delta R.T. 0.00 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Tgt Ion: 98 Resp: 246137
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 2.039 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Instrument :

MSVOA_U

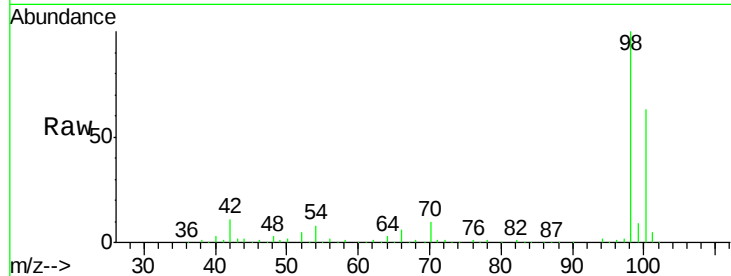
ClientSampled :

Tot Ion: 43 Resp: 4462

Ion Ratio Lower Upper

43 100

58 41.2 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.56

2500

2000

1500

1000

500

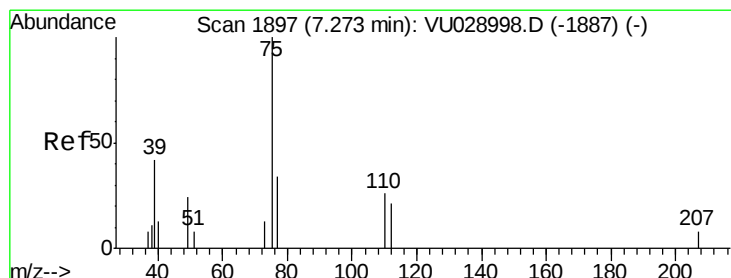
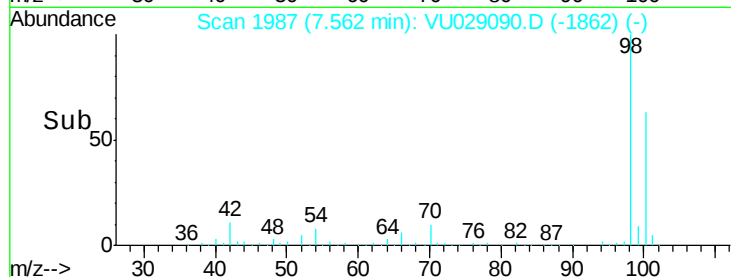
0

7.50

7.55

7.60

Time-->



#54

cis-1,3-Dichloropropene

Concen: 9.840 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

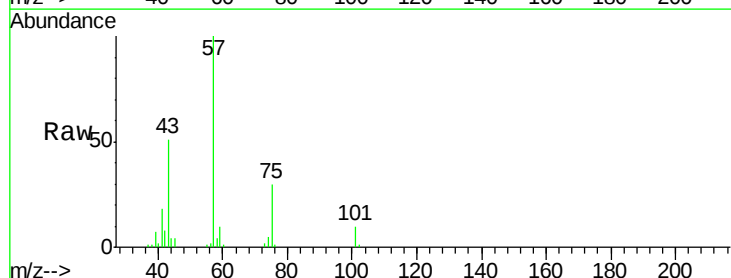
Tgt Ion: 75 Resp: 23644

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 22.9 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

7.42

20000

15000

10000

5000

0

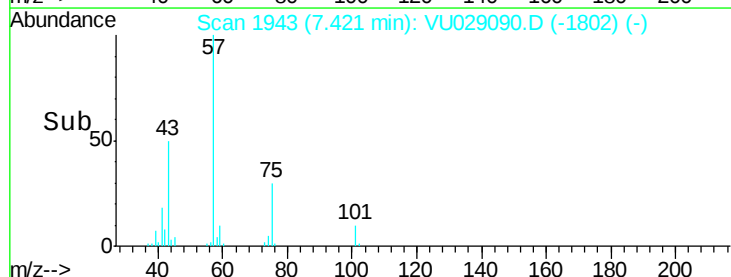
7.35

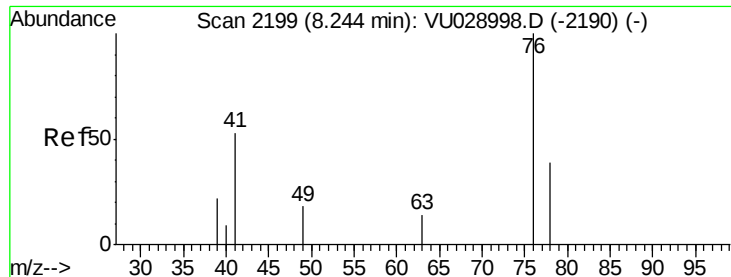
7.40

7.45

7.50

Time-->

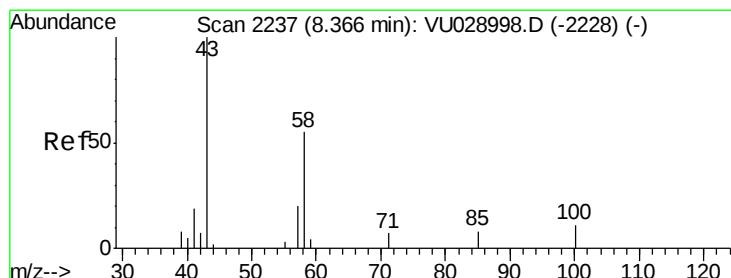
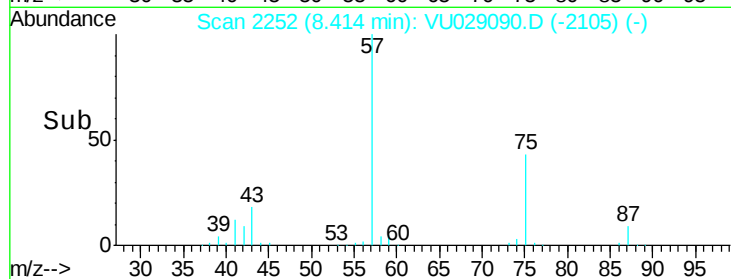
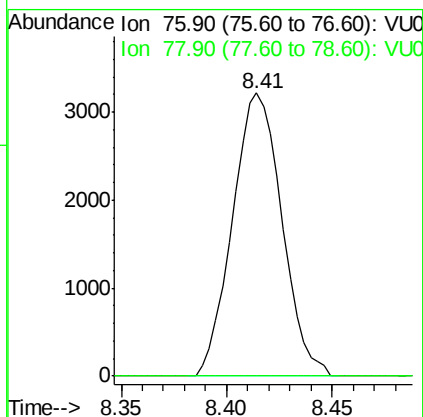
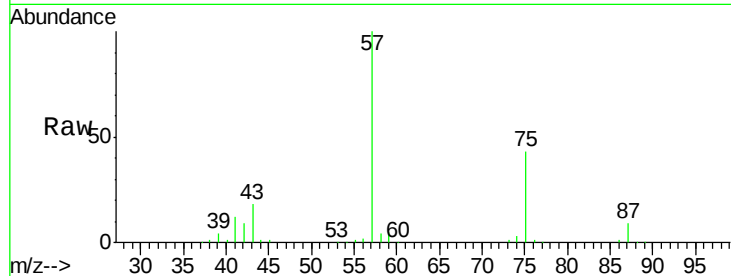




#57
 1,3-Dichloropropane
 Concen: 2.103 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029090.D
 Acq: 09 Jan 2019 15:25

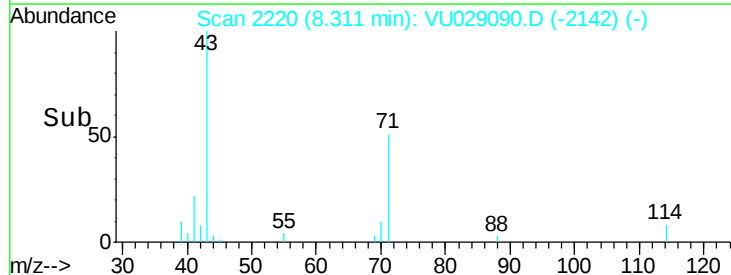
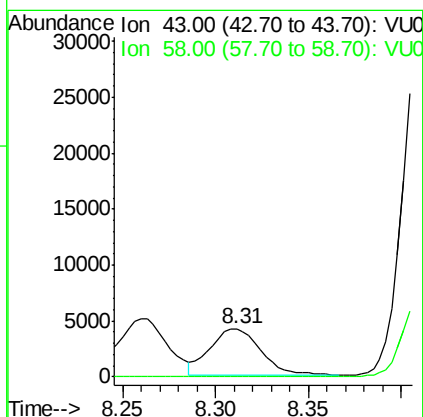
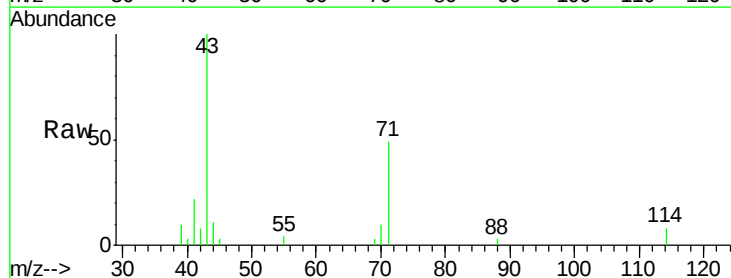
Instrument :
 MSVOA_U
 ClientSampleId :

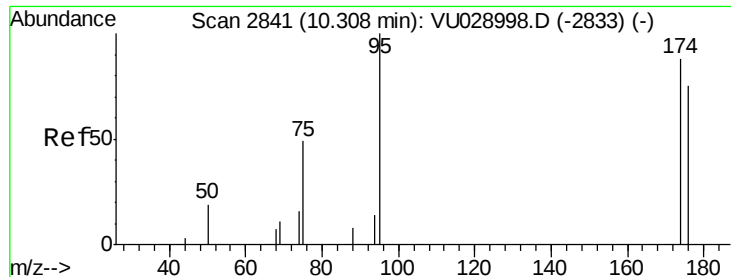
Tot Ion: 76 Resp: 5226
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 4.564 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU029090.D
 Acq: 09 Jan 2019 15:25

Tgt Ion: 43 Resp: 7839
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#

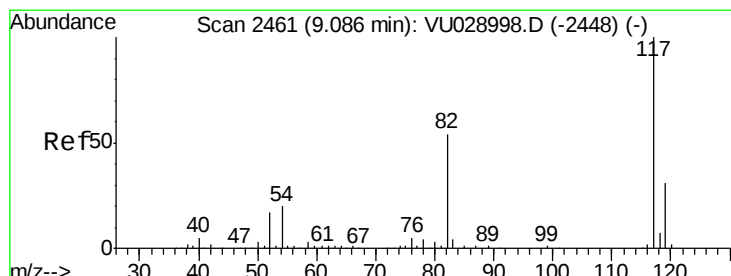
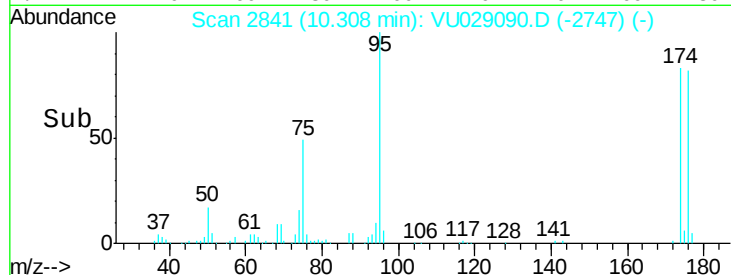
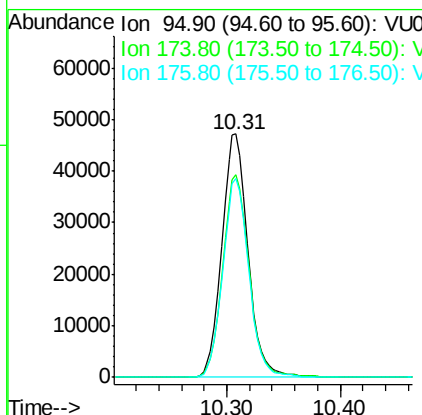
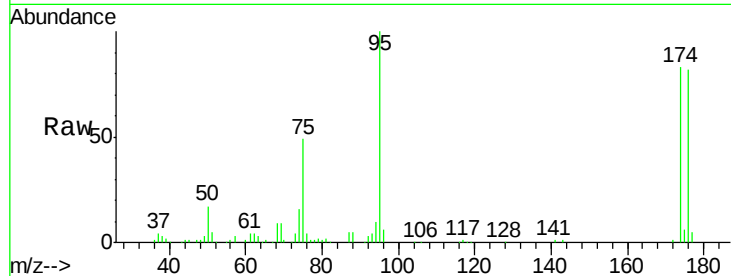




#62
4-Bromofluorobenzene
Concen: 43.189 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

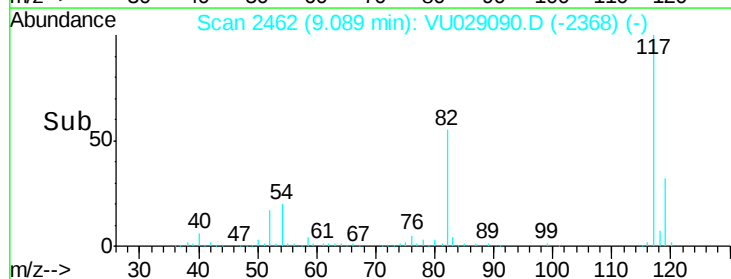
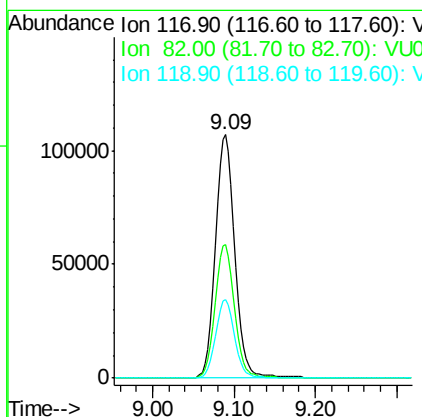
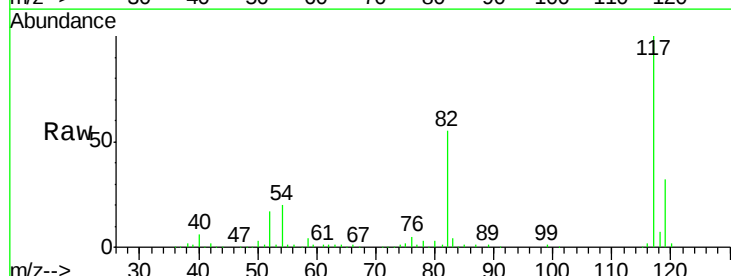
Instrument :
MSVOA_U
ClientSampleId :

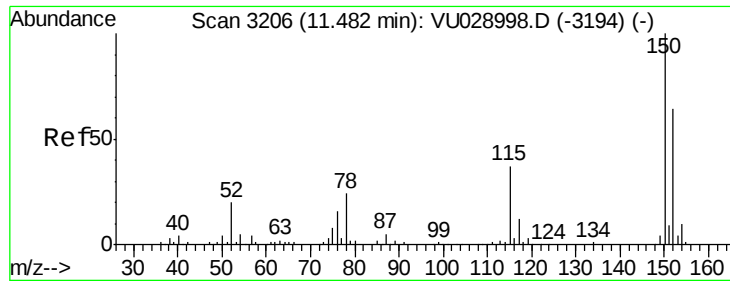
Tot Ion: 95 Resp: 75872
Ion Ratio Lower Upper
95 100
174 84.4 0.0 170.6
176 81.3 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

Tgt Ion: 117 Resp: 181377
Ion Ratio Lower Upper
117 100
82 54.7 43.9 65.9
119 32.2 26.0 39.0



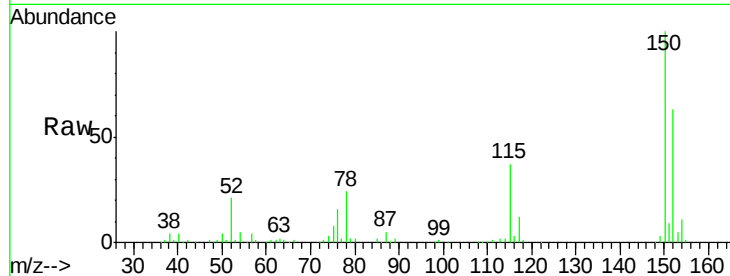


#72

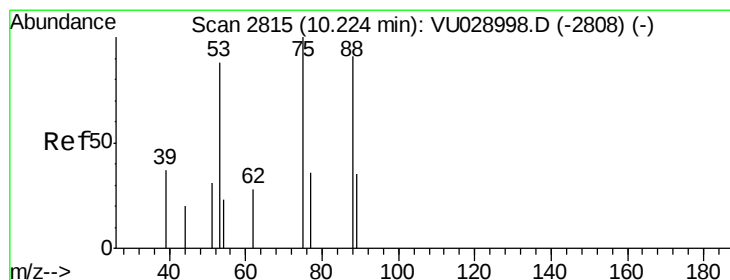
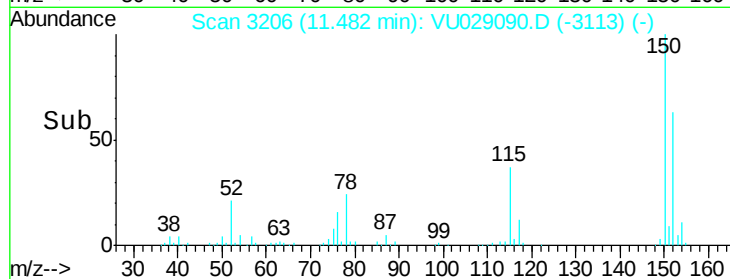
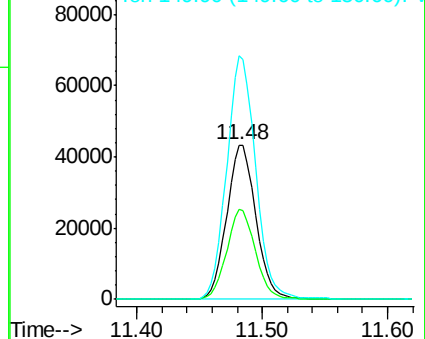
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:152 Resp: 69918
Ion Ratio Lower Upper
152 100
115 57.5 40.1 120.3
150 156.9 0.0 345.2



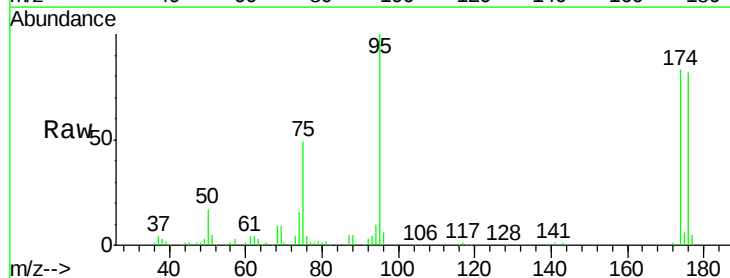
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



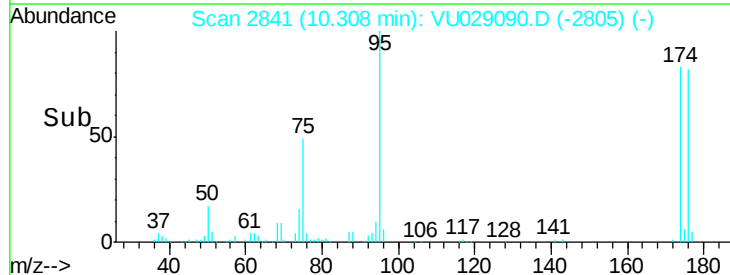
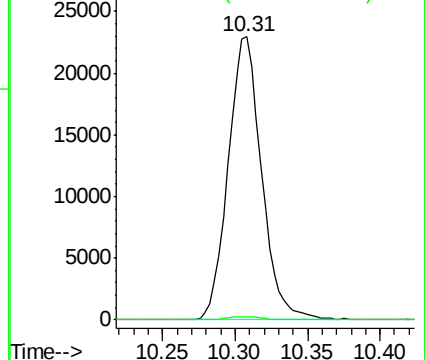
#76

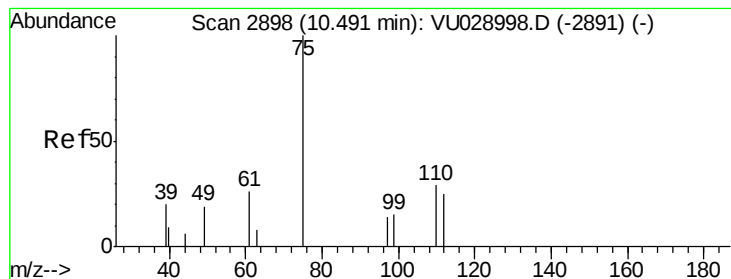
1,2,3-Trichloropropane
Concen: 21.324 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.18 min
Lab File: VU029090.D
Acq: 09 Jan 2019 15:25

Tgt Ion: 75 Resp: 36530
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





#81

trans-1,4-Dichloro-2-butene

Concen: 54.995 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU029090.D

Acq: 09 Jan 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

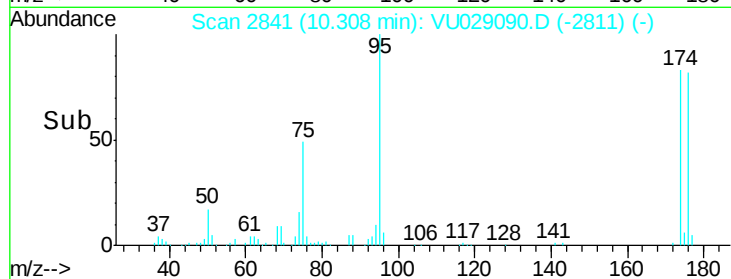
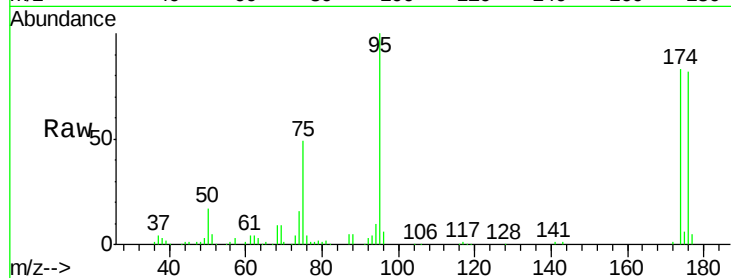
Tot Ion: 75 Resp: 36530

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

