

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110218\
 Data File : VU027934.D
 Acq On : 02 Nov 2018 18:22
 Operator : MD/SY
 Sample : J5759-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-1

Quant Time: Nov 03 04:25:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	189320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	334930	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	119272	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	146970	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
35) Dibromofluoromethane	4.89	113	108801	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	7.57	98	426720	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
62) 4-Bromofluorobenzene	10.31	95	138872	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	

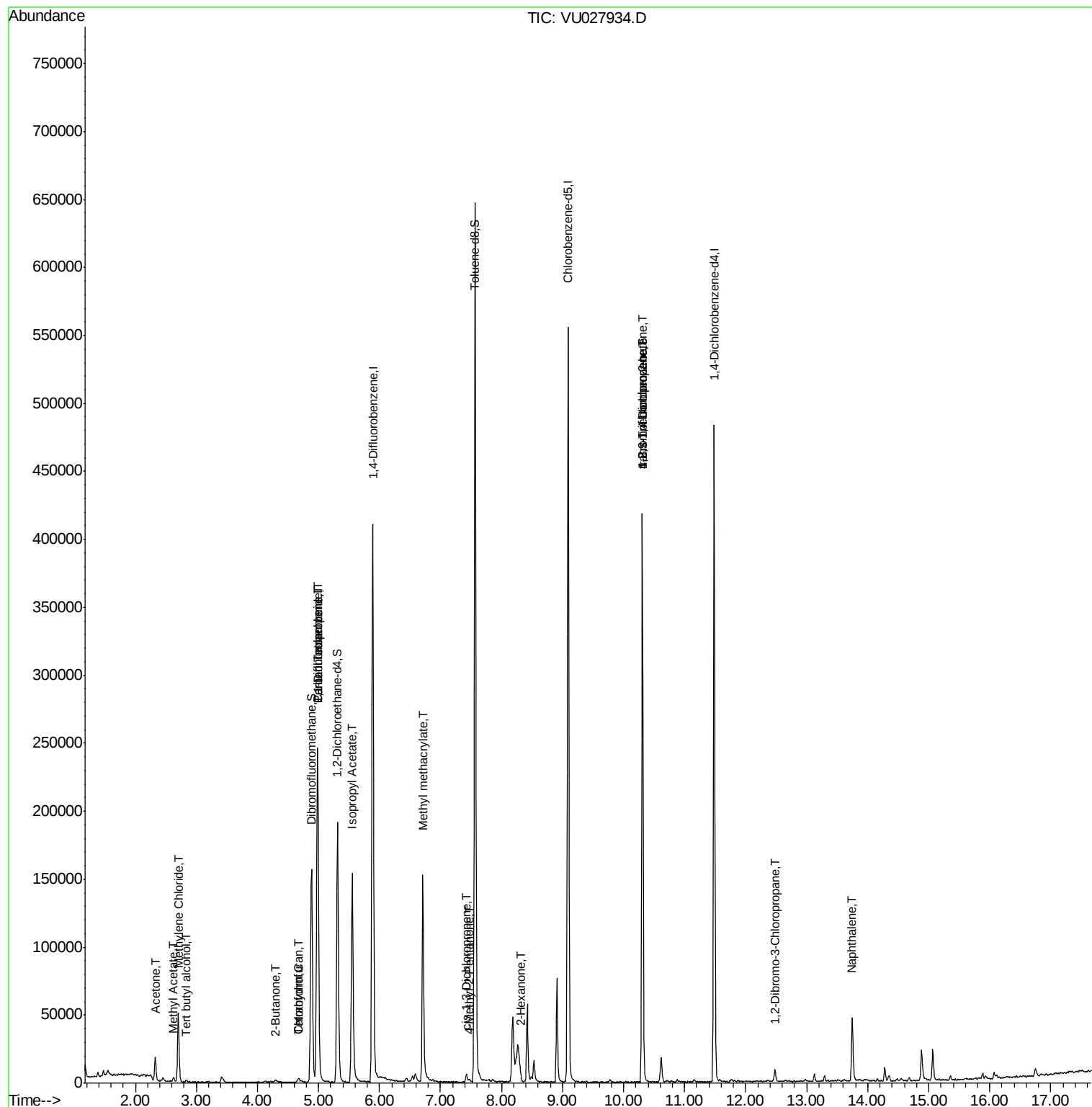
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	1047	1.405	ug/l #	73
13) Acrolein	2.22	56	47	Below Cal	#	1
16) Acetone	2.33	43	17918	10.260	ug/l	96
18) Methyl Acetate	2.62	43	3543	0.738	ug/l	98
20) Methylene Chloride	2.70	84	20708	8.121	ug/l	93
25) 2-Butanone	4.29	43	1360	0.490	ug/l #	90
29) Tetrahydrofuran	4.66	42	1403	0.756	ug/l #	80
30) Chloroform	4.68	83	1840	0.402	ug/l	100
31) Cyclohexane	4.99	56	4125	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	16035	4.571	ug/l #	47
38) Carbon Tetrachloride	4.99	117	18404	5.920	ug/l #	17
43) Isopropyl Acetate	5.55	43	185405	23.025	ug/l	99
48) Methyl methacrylate	6.71	41	13486	3.418	ug/l #	46
51) 4-Methyl-2-Pentanone	7.48	43	2105	0.391	ug/l #	68
54) cis-1,3-Dichloropropene	7.43	75	1106	0.262	ug/l #	71
59) 2-Hexanone	8.32	43	2000	0.481	ug/l #	26
76) 1,2,3-Trichloropropane	10.31	75	71514	21.920	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	71514	54.706	ug/l #	100
92) 1,2-Dibromo-3-Chloropropan	12.48	75	285	0.363	ug/l #	4
95) Naphthalene	13.75	128	40740	3.997	ug/l	99

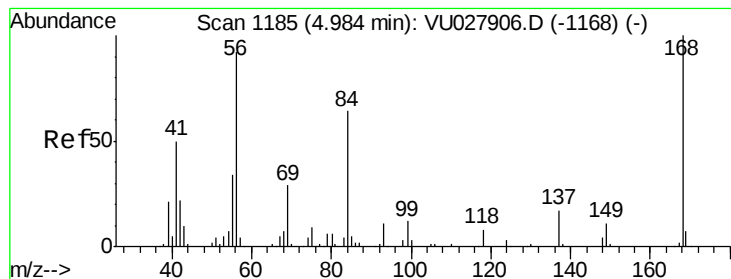
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampleId :

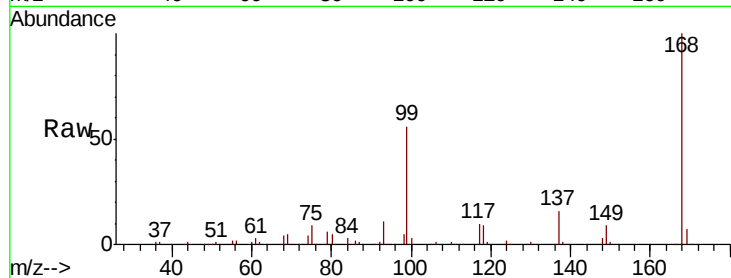
TP-1

Tot Ion:168 Resp: 189320

Ion Ratio Lower Upper

168 100

99 56.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

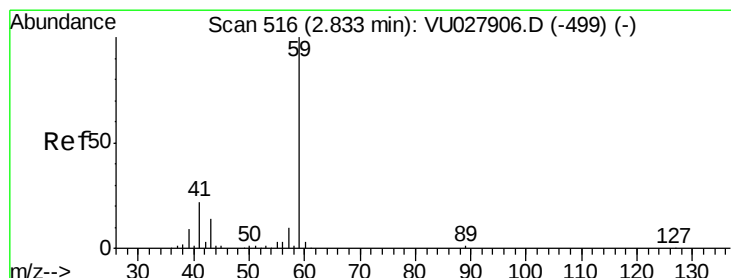
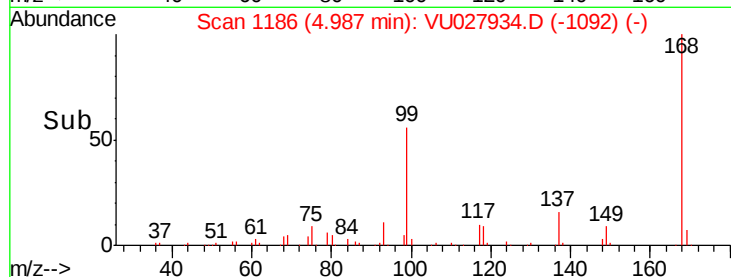
40000

20000

0

Time-->

4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.405 ug/l

RT: 2.83 min Scan# 516

Delta R.T. -0.00 min

Lab File: VU027934.D

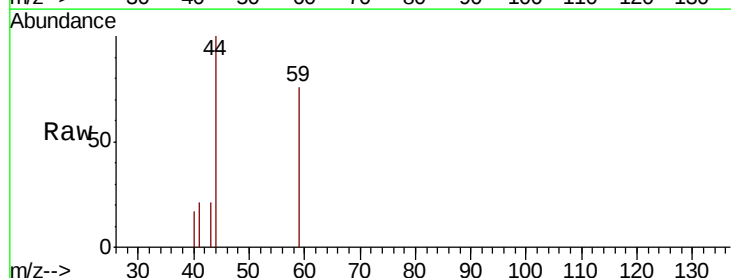
Acq: 02 Nov 2018 18:22

Tgt Ion: 59 Resp: 1047

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027906.D (-499) (-)

2.83

800

600

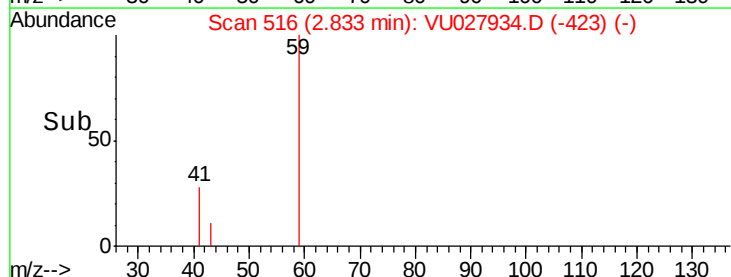
400

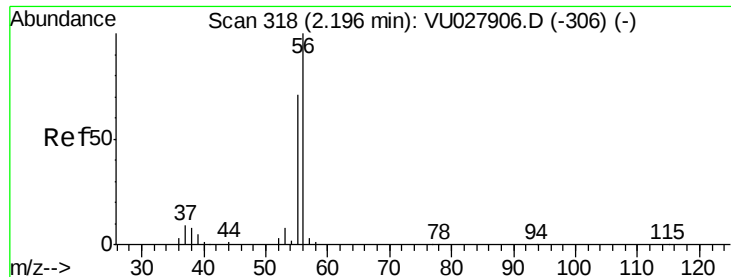
200

0

Time-->

2.80 2.85





#13

Acrolein

Concen: Below Cal

RT: 2.22 min Scan# 325

Delta R.T. 0.02 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampleId :

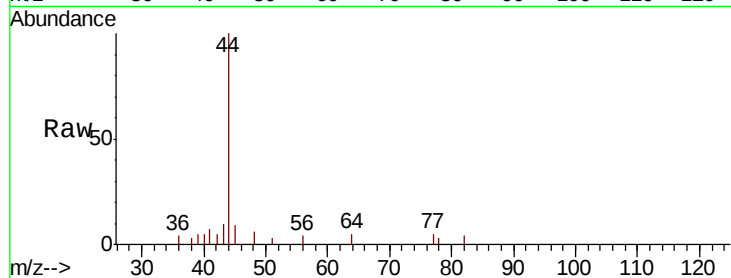
TP-1

Tot Ion: 56 Resp: 47

Ion Ratio Lower Upper

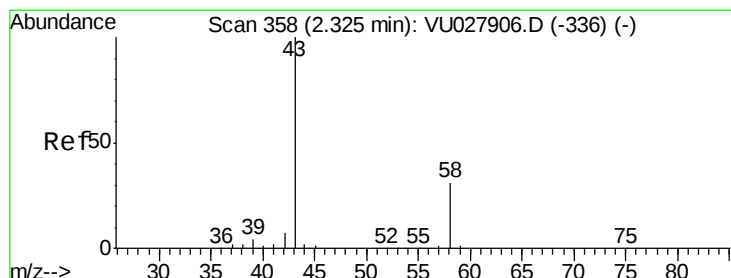
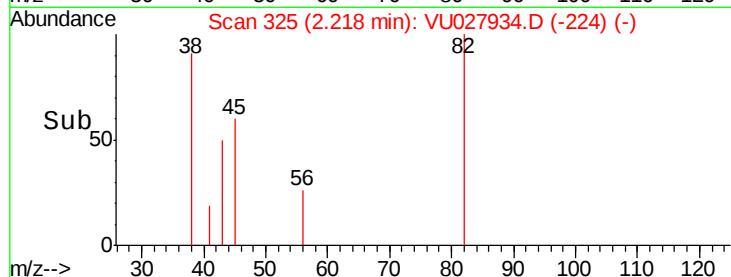
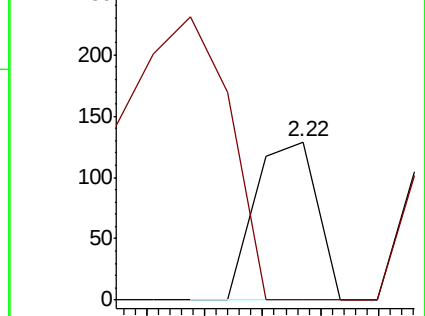
56 100

55 304.3 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 10.260 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU027934.D

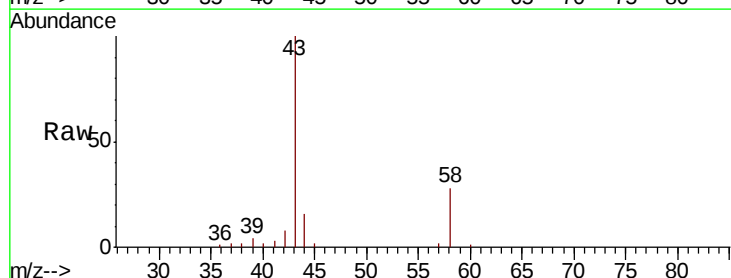
Acq: 02 Nov 2018 18:22

Tgt Ion: 43 Resp: 17918

Ion Ratio Lower Upper

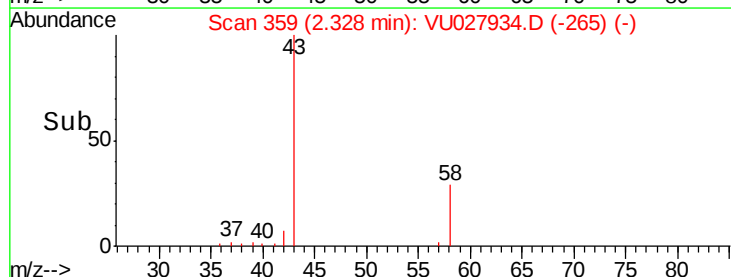
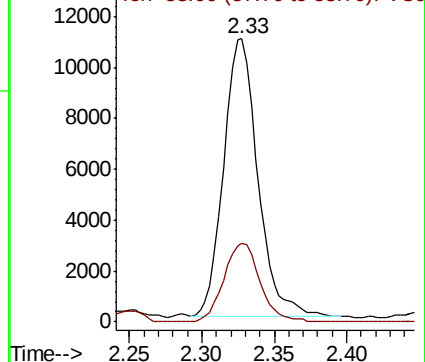
43 100

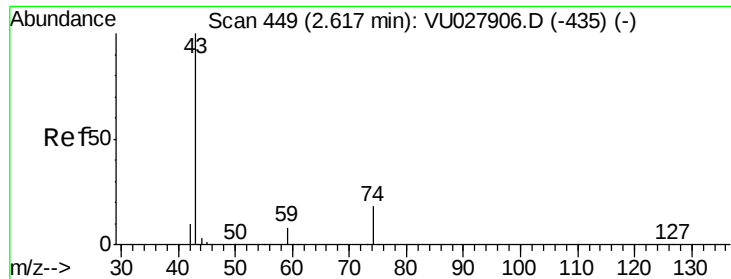
58 28.4 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

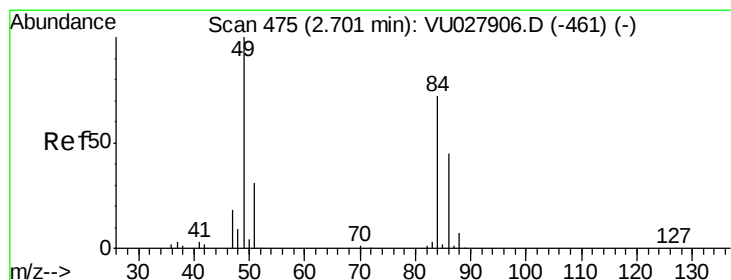
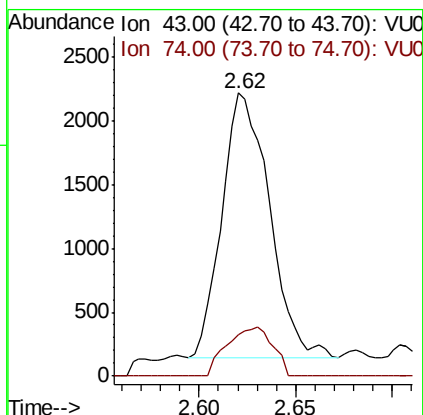
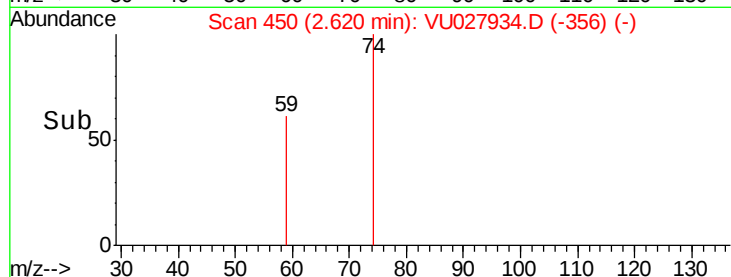
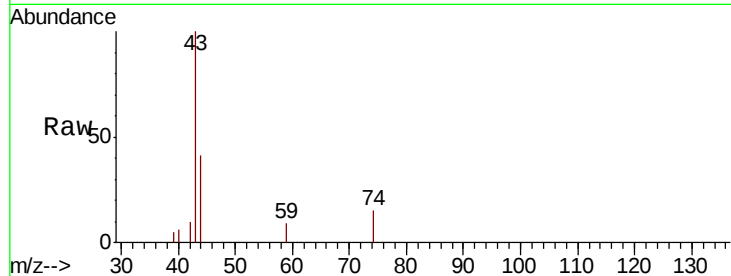




#18
Methyl Acetate
Concen: 0.738 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

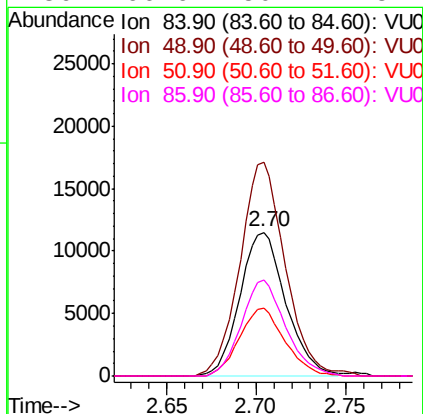
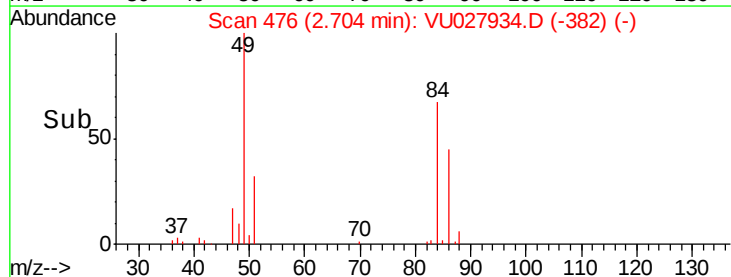
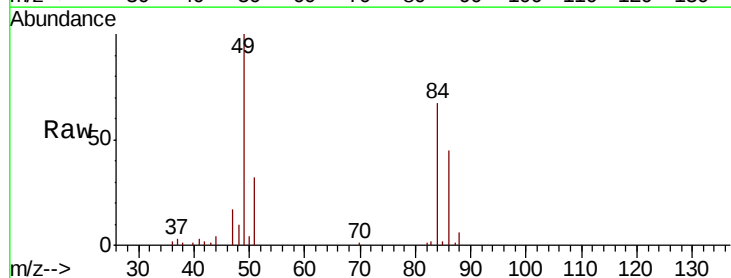
Instrument :
MSVOA_U
ClientSampleId :
TP-1

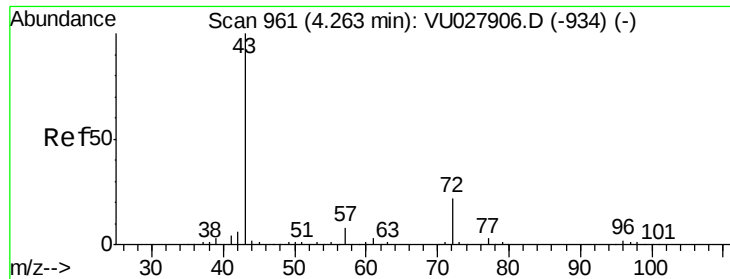
Tot Ion: 43 Resp: 3543
Ion Ratio Lower Upper
43 100
74 17.8 14.9 22.3



#20
Methylene Chloride
Concen: 8.121 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

Tgt Ion: 84 Resp: 20708
Ion Ratio Lower Upper
84 100
49 148.6 111.6 167.4
51 47.1 34.8 52.2
86 66.6 50.1 75.1





#25

2-Butanone

Concen: 0.490 ug/l

RT: 4.29 min Scan# 968

Delta R.T. 0.02 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampled :

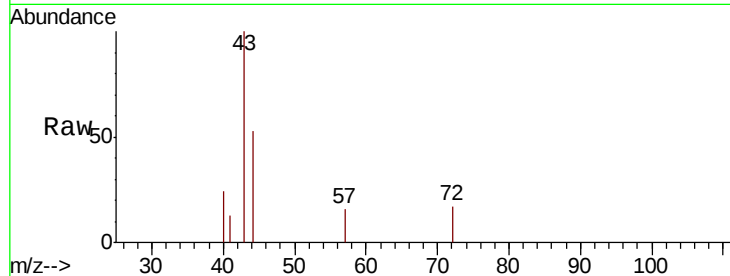
TP-1

Tot Ion: 43 Resp: 1360

Ion Ratio Lower Upper

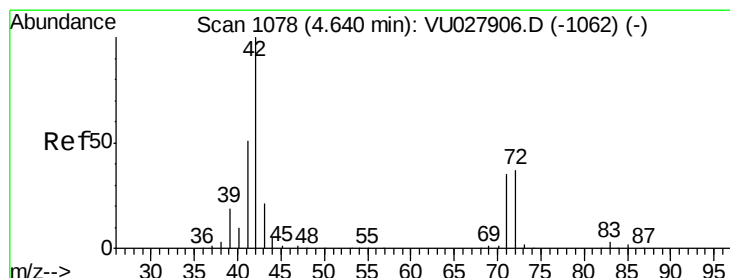
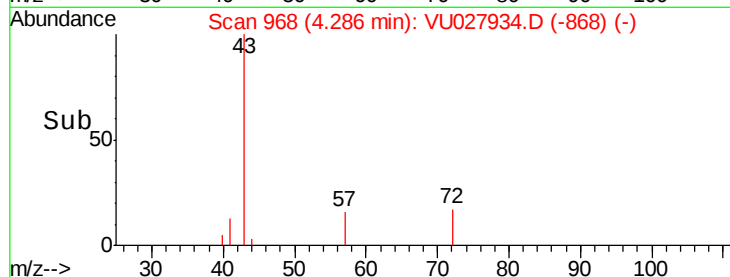
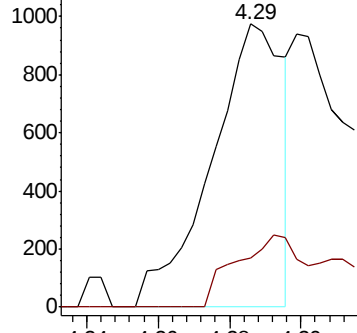
43 100

72 17.5 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.756 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

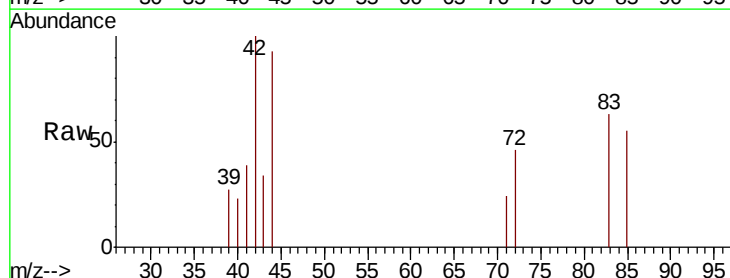
Tgt Ion: 42 Resp: 1403

Ion Ratio Lower Upper

42 100

72 26.6 29.4 44.0#

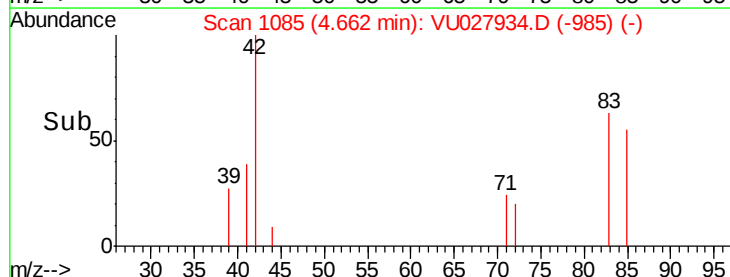
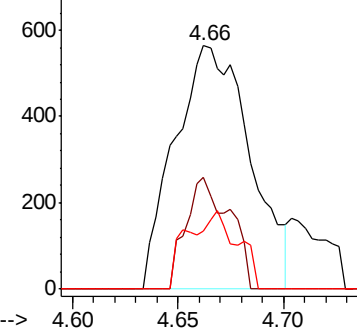
71 21.4 27.9 41.9#

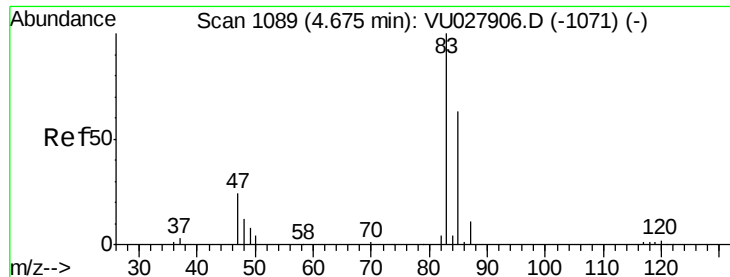


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

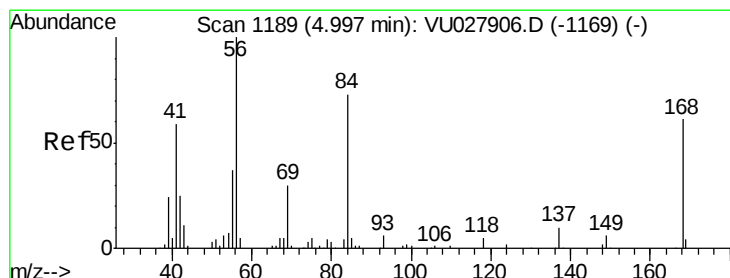
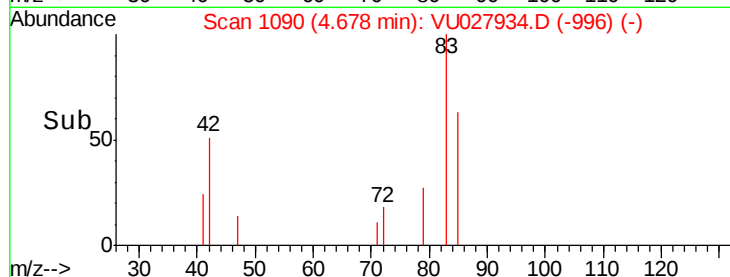
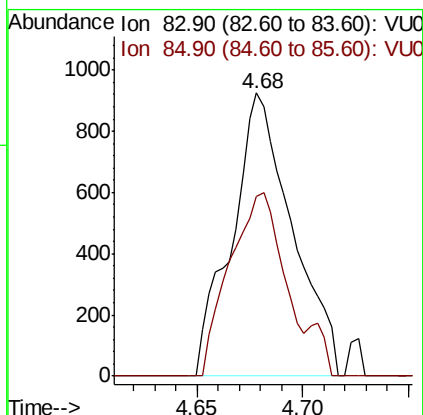
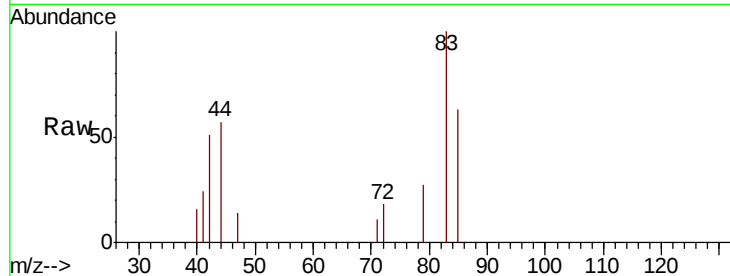




#30
Chloroform
Concen: 0.402 ug/l
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

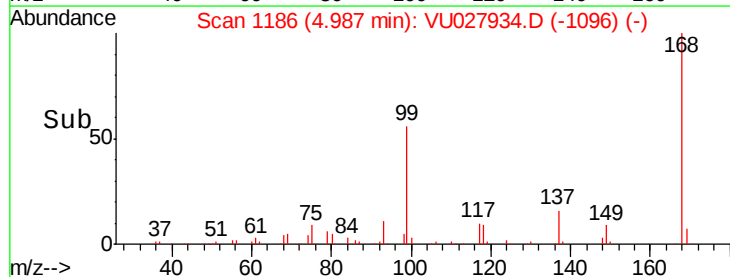
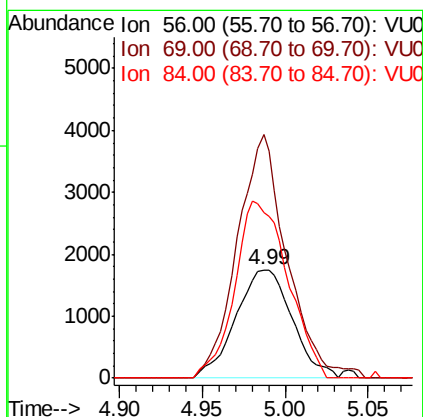
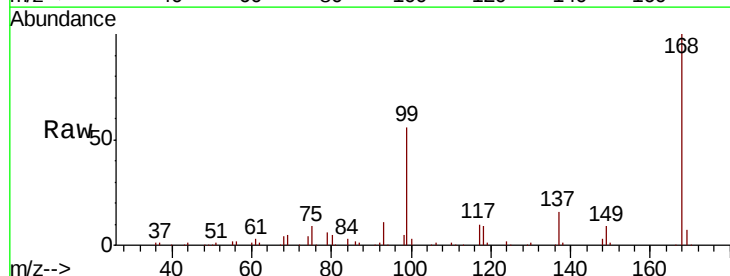
Instrument :
MSVOA_U
ClientSampled :
TP-1

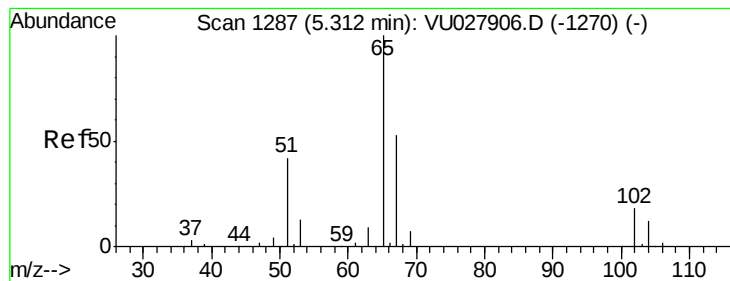
Tot Ion: 83 Resp: 1840
Ion Ratio Lower Upper
83 100
85 63.4 50.6 76.0



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

Tgt Ion: 56 Resp: 4125
Ion Ratio Lower Upper
56 100
69 225.1 23.7 35.5#
84 153.5 58.2 87.4#





#33

1,2-Dichloroethane-d4

Concen: 52.215 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampleId :

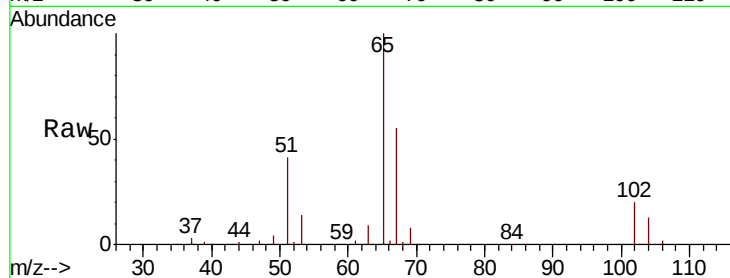
TP-1

Tot Ion: 65 Resp: 146970

Ion Ratio Lower Upper

65 100

67 55.0 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU027906.D (-1270) (-)

Ion 66.90 (66.60 to 67.60): VU027906.D (-1270) (-)

5.31

60000

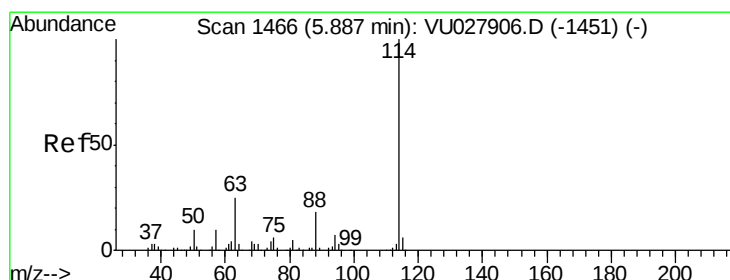
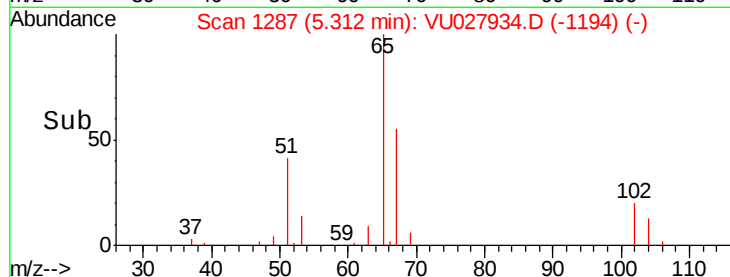
40000

20000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

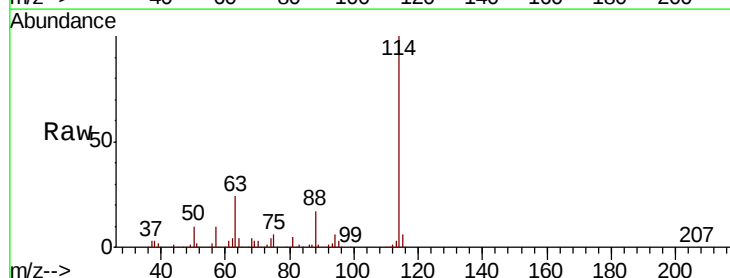
Tgt Ion: 114 Resp: 334930

Ion Ratio Lower Upper

114 100

63 23.8 0.0 50.8

88 16.6 0.0 35.8



Abundance Ion 113.90 (113.60 to 114.60): VU027906.D (-1451) (-)

Ion 63.00 (62.70 to 63.70): VU027906.D (-1451) (-)

Ion 87.90 (87.60 to 88.60): VU027906.D (-1451) (-)

5.89

200000

150000

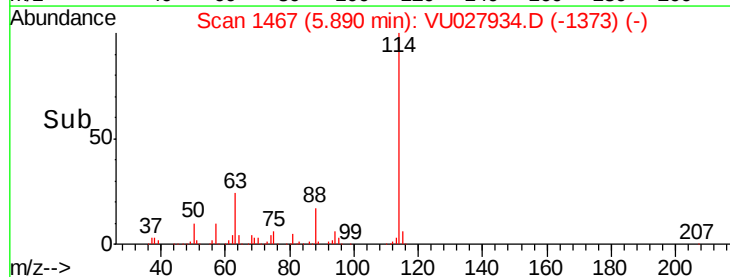
100000

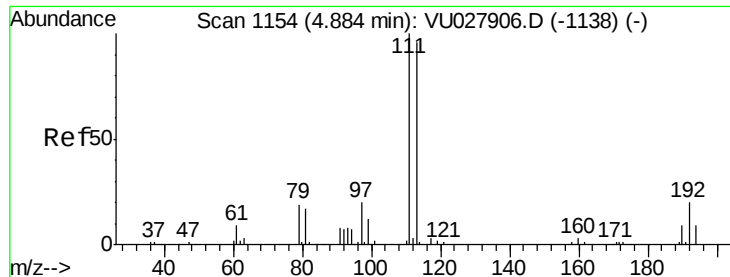
50000

0

Time-->

5.80 5.90 6.00 6.10





#35

Dibromofluoromethane

Concen: 51.521 ug/l

RT: 4.89 min Scan# 1155

Delta R.T. 0.00 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampleId :

TP-1

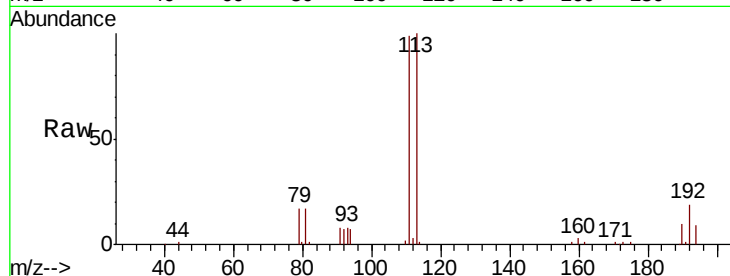
Tot Ion:113 Resp: 108801

Ion Ratio Lower Upper

113 100

111 103.1 83.0 124.6

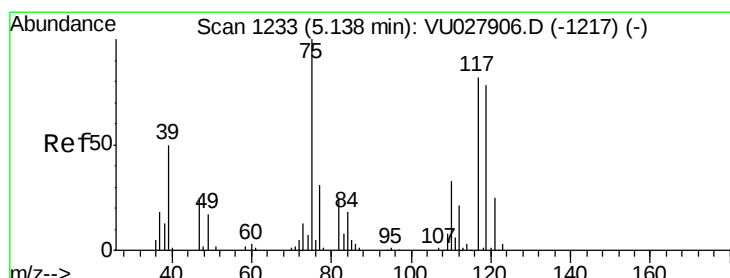
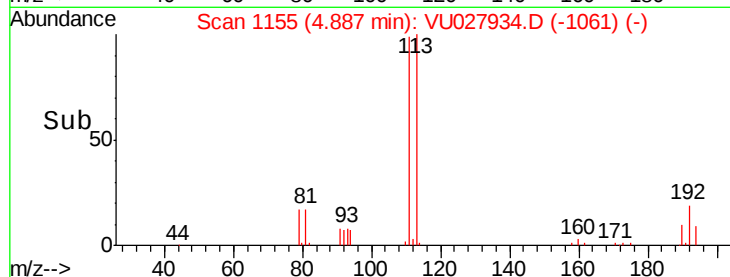
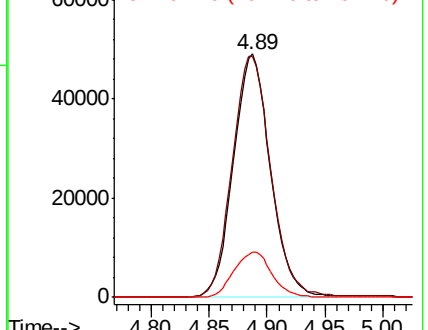
192 19.1 15.6 23.4



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: 4.571 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

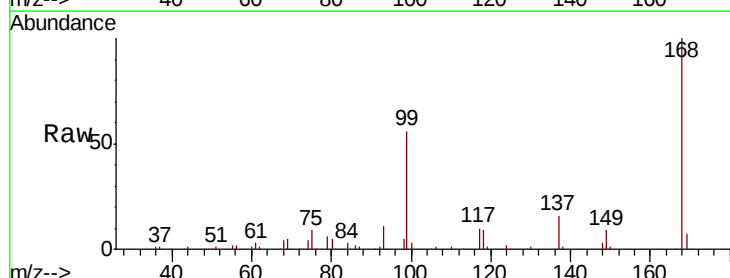
Tgt Ion: 75 Resp: 16035

Ion Ratio Lower Upper

75 100

110 5.3 16.5 49.5#

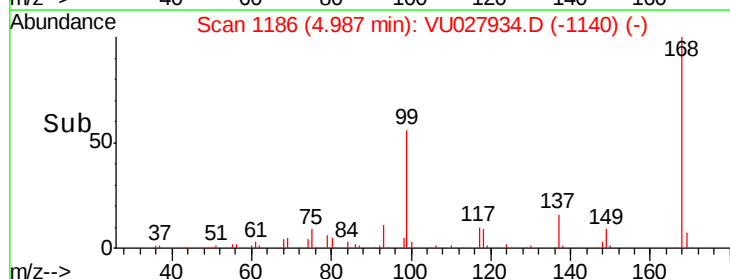
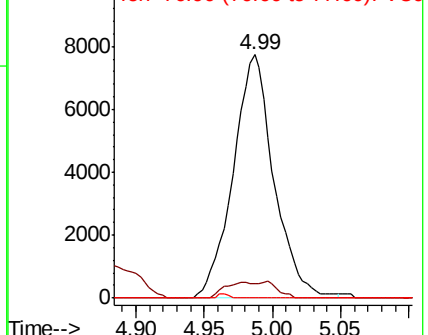
77 0.0 24.9 37.3#

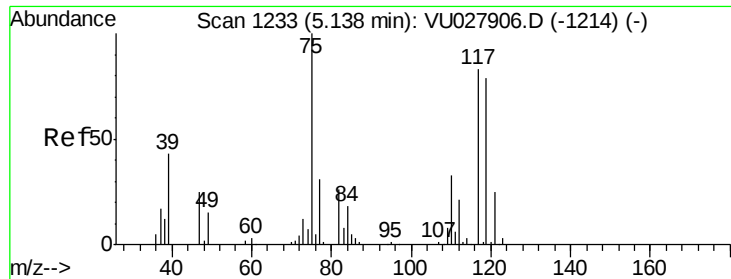


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.920 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampleId :

TP-1

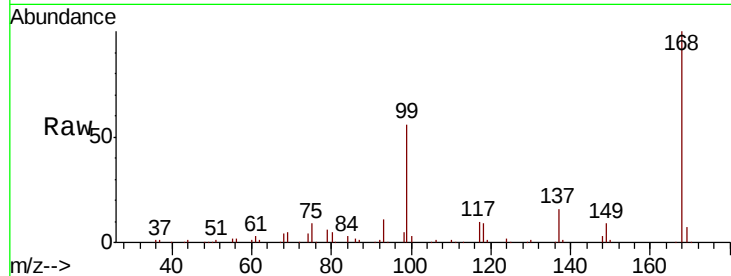
Tot Ion:117 Resp: 18404

Ion Ratio Lower Upper

117 100

119 5.6 76.0 114.0#

121 0.0 24.5 36.7#

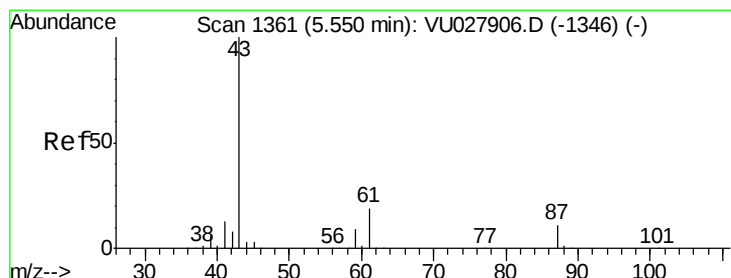
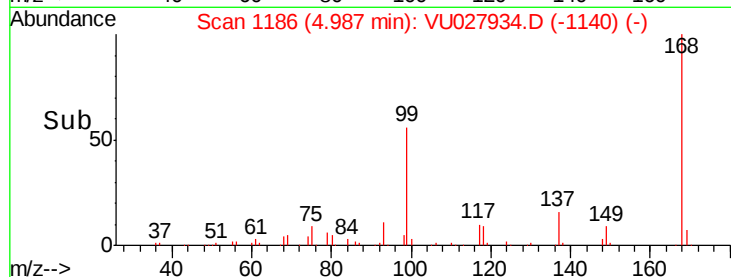
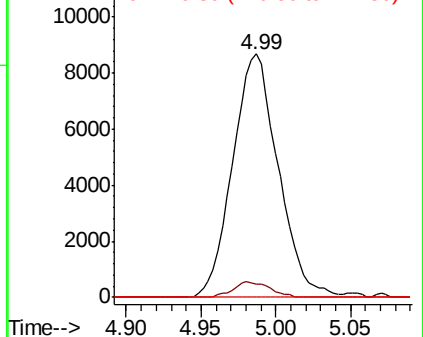


Abundance

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: 23.025 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

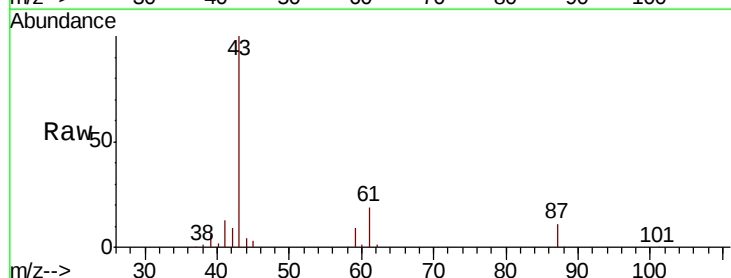
Tgt Ion: 43 Resp: 185405

Ion Ratio Lower Upper

43 100

61 18.4 15.0 22.4

87 10.5 8.6 12.8

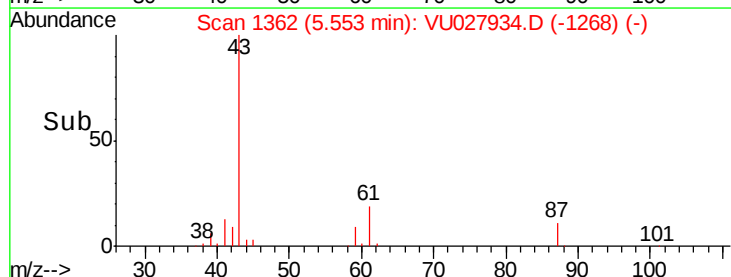
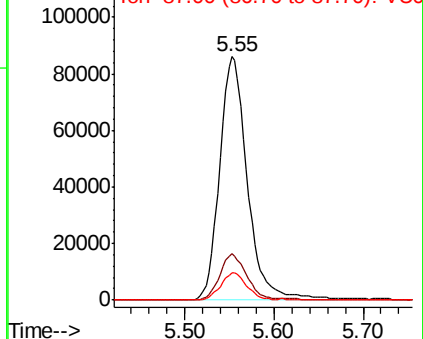


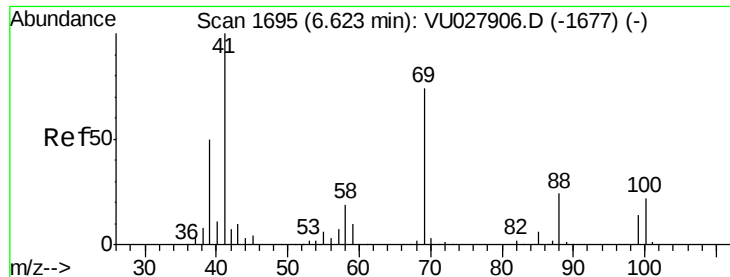
Abundance

Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methvl methacrylate

Concen: 3.418 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.09 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :
MSVOA_U
ClientSampleId :
TP-1

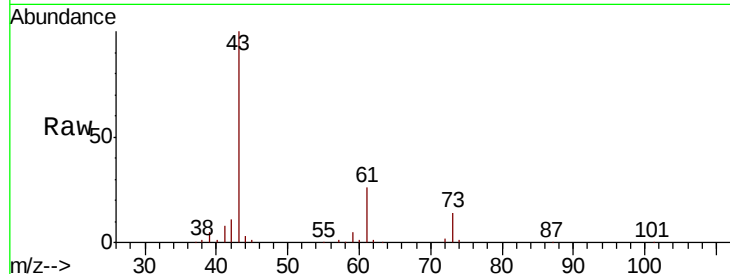
Tot Ion: 41 Resp: 13486

Ion Ratio Lower Upper

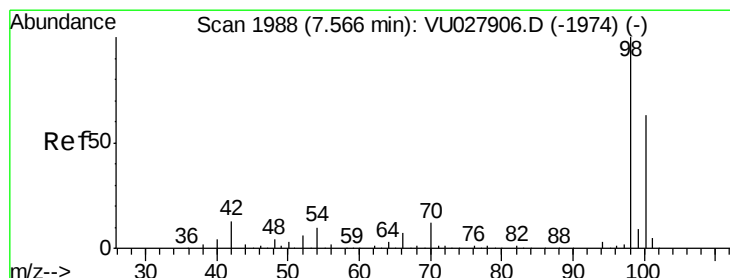
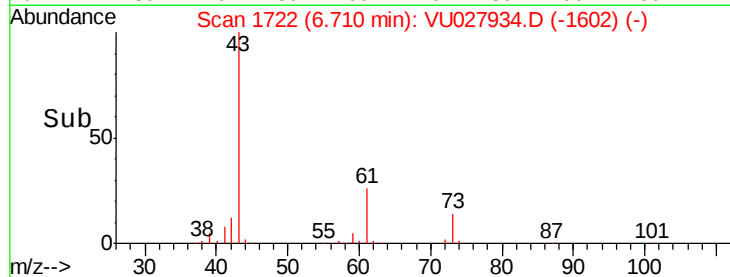
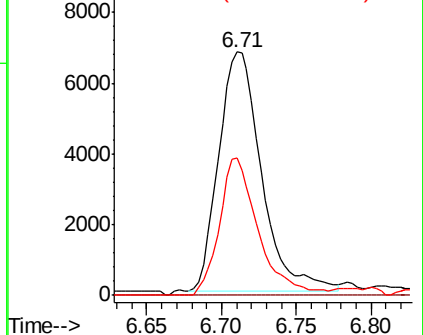
41 100

69 0.0 59.8 89.8#

39 52.1 40.0 60.0



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: 52.309 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU027934.D

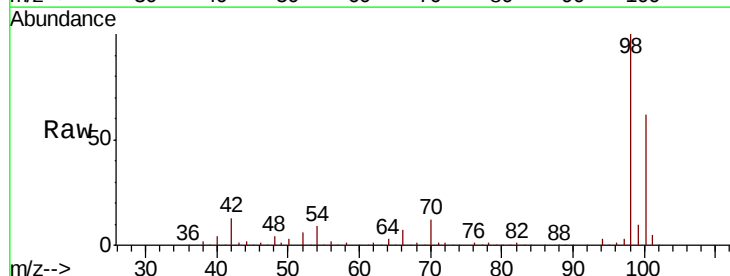
Acq: 02 Nov 2018 18:22

Tgt Ion: 98 Resp: 426720

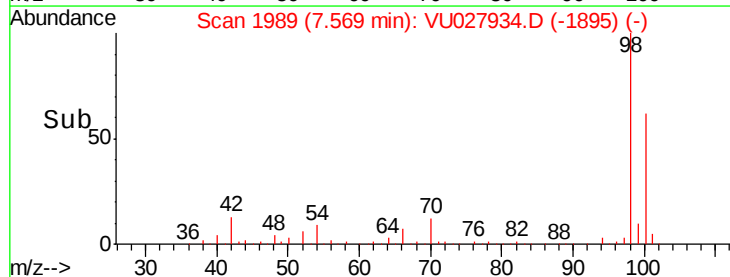
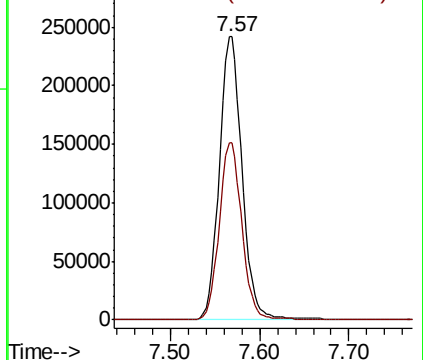
Ion Ratio Lower Upper

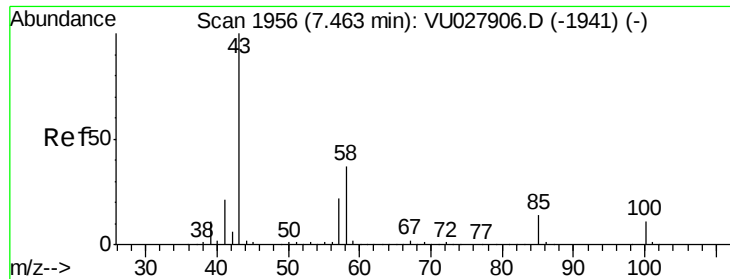
98 100

100 62.2 50.1 75.1



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: 0.391 ug/l

RT: 7.48 min Scan# 1960

Delta R.T. 0.01 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampled :

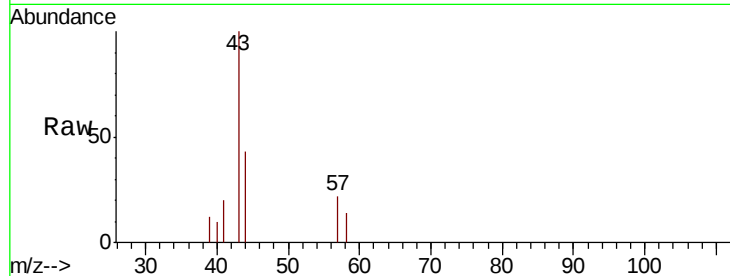
TP-1

Tot Ion: 43 Resp: 2105

Ion Ratio Lower Upper

43 100

58 18.0 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

2500

2000

1500

1000

500

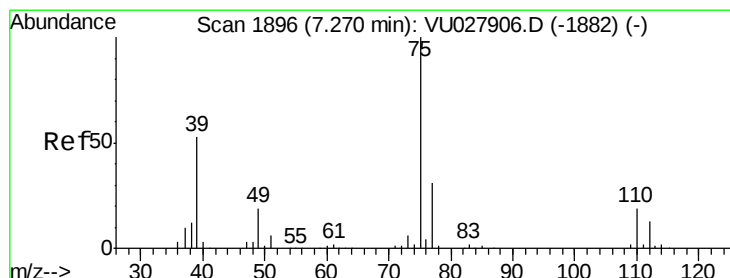
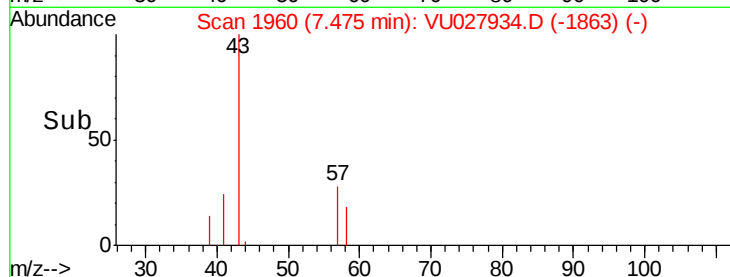
0

7.45

7.48

7.55

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.262 ug/l

RT: 7.43 min Scan# 1946

Delta R.T. 0.16 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

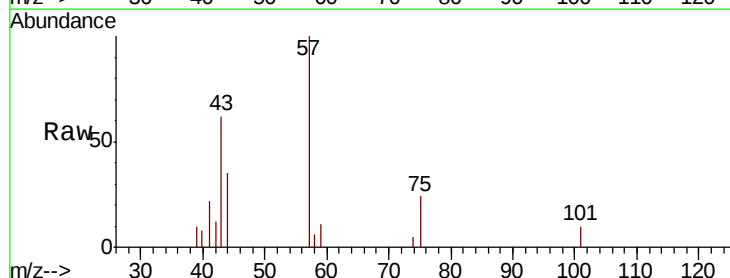
Tgt Ion: 75 Resp: 1106

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 43.7 42.6 64.0



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1882) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-1882) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1882) (-)

600

400

200

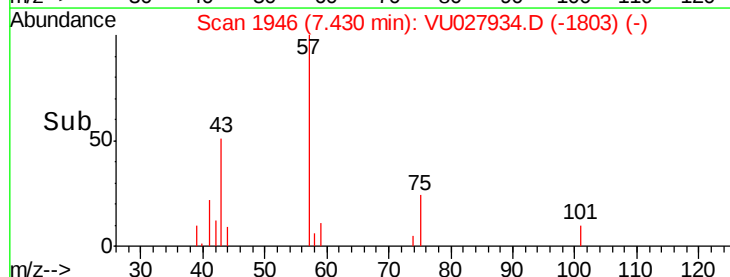
0

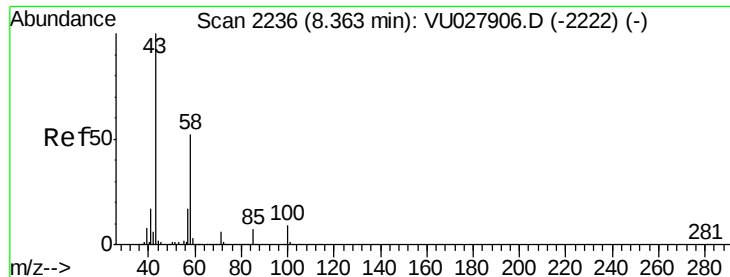
7.40

7.43

7.45

Time-->

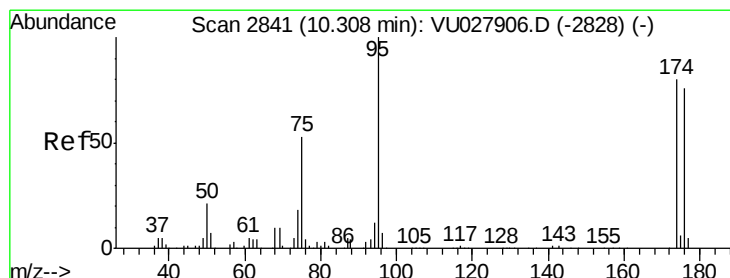
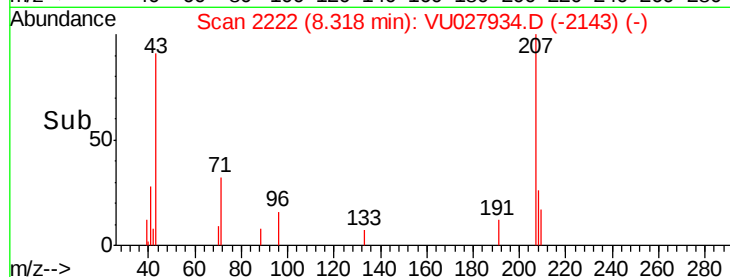
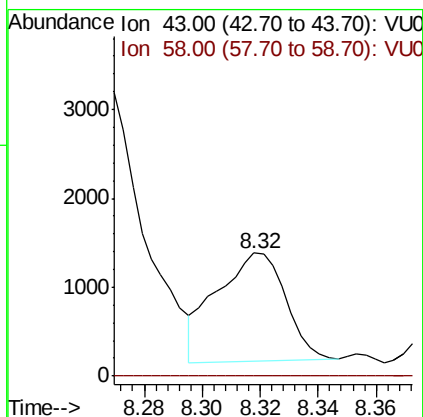
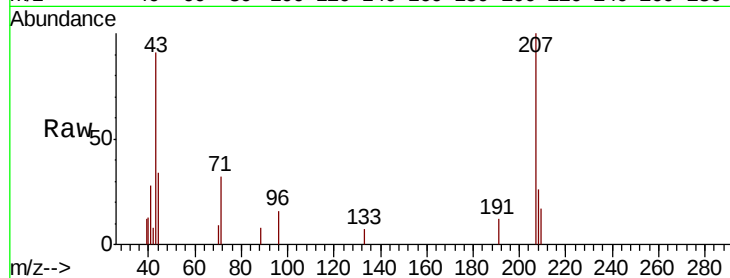




#59
2-Hexanone
Concen: 0.481 ug/l
RT: 8.32 min Scan# 2222
Delta R.T. -0.05 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

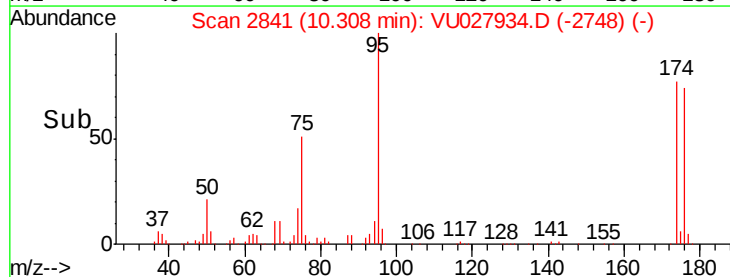
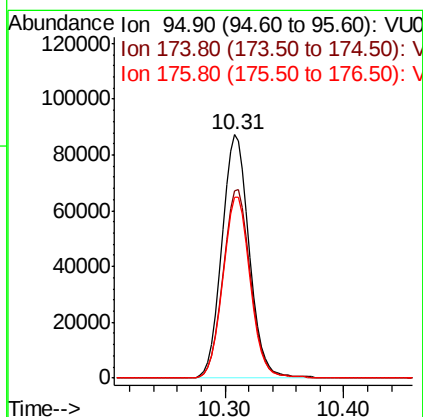
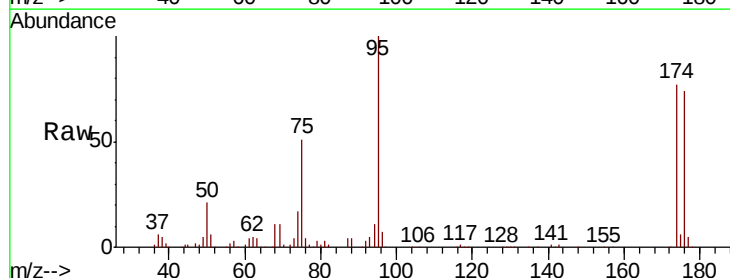
Instrument :
MSVOA_U
ClientSampleId :
TP-1

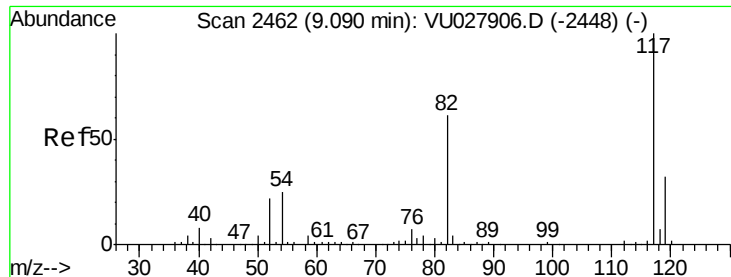
Tot Ion: 43 Resp: 2000
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 46.154 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

Tgt Ion: 95 Resp: 138872
Ion Ratio Lower Upper
95 100
174 77.9 0.0 156.4
176 74.7 0.0 150.8

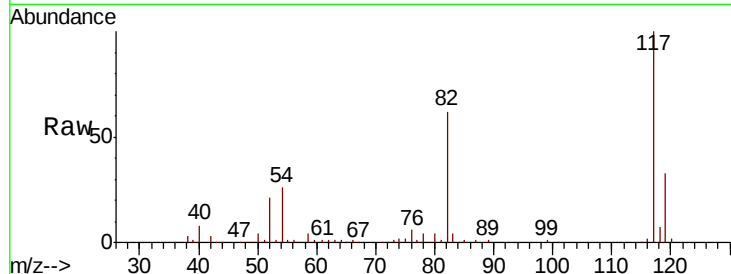




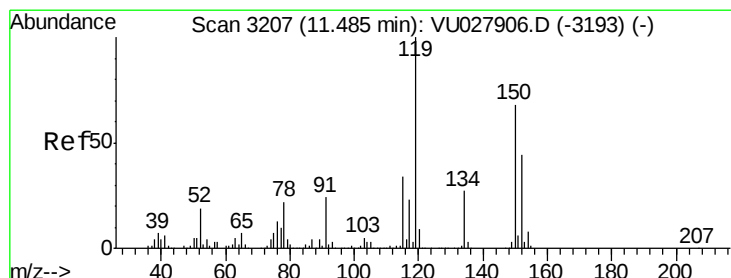
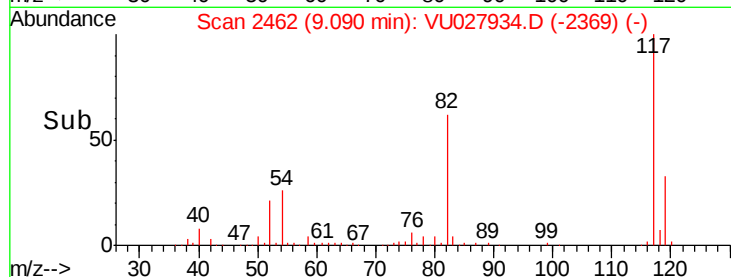
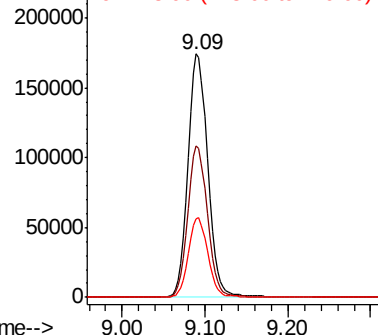
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

Instrument :
MSVOA_U
ClientSampleId :
TP-1

Tot Ion:117 Resp: 289444
Ion Ratio Lower Upper
117 100
82 62.4 48.6 73.0
119 32.5 25.8 38.8

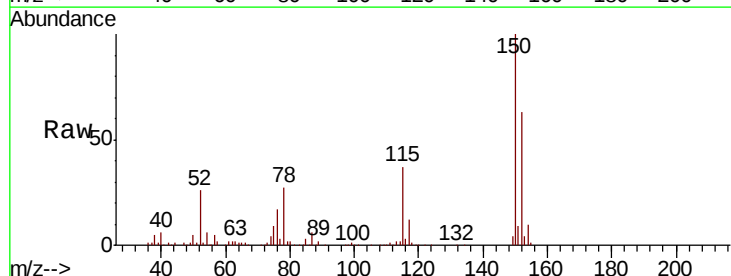


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

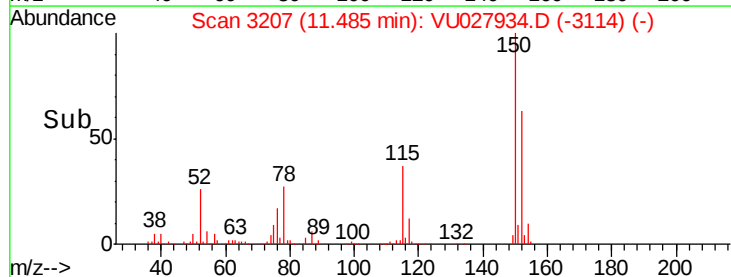
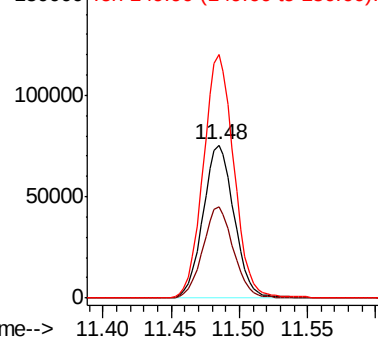


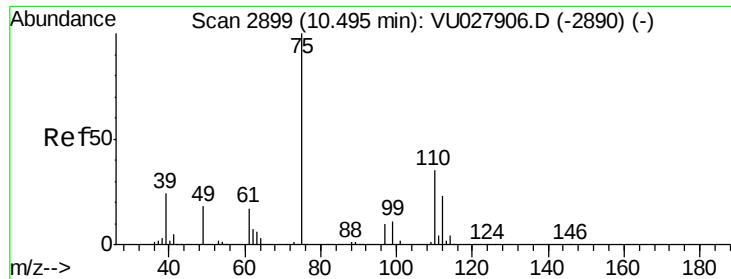
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027934.D
Acq: 02 Nov 2018 18:22

Tgt Ion:152 Resp: 119272
Ion Ratio Lower Upper
152 100
115 59.0 43.0 129.0
150 157.1 0.0 349.4



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: 21.920 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

Instrument :

MSVOA_U

ClientSampled :

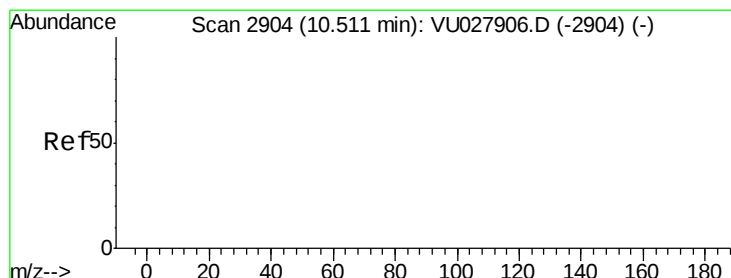
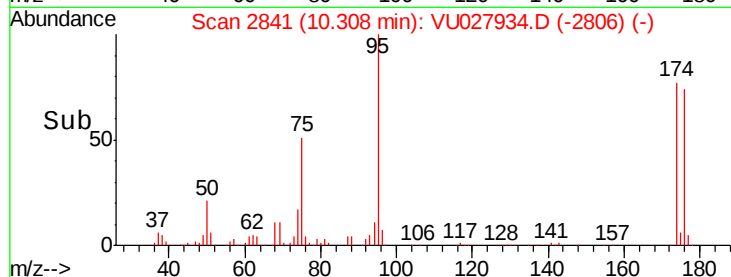
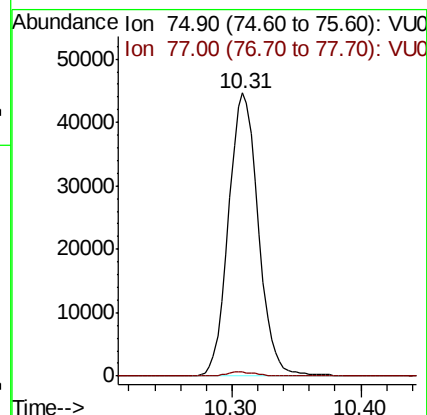
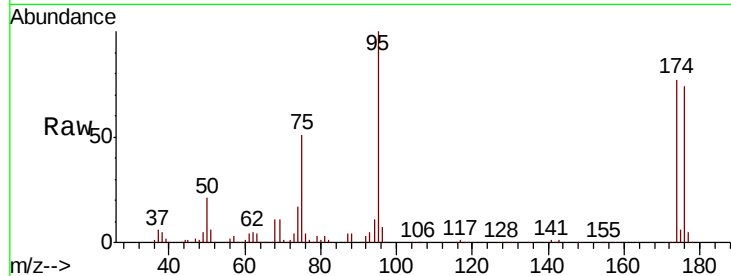
TP-1

Tot Ion: 75 Resp: 71514

Ion Ratio Lower Upper

75 100

77 1.5 21.6 64.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.706 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027934.D

Acq: 02 Nov 2018 18:22

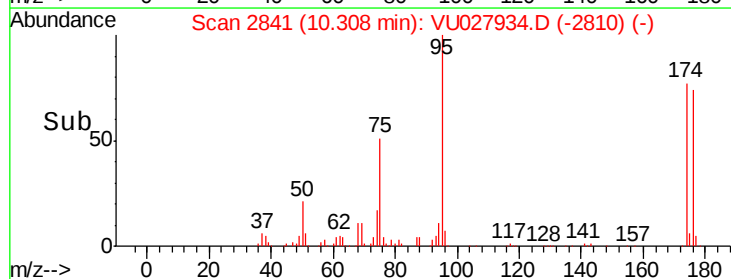
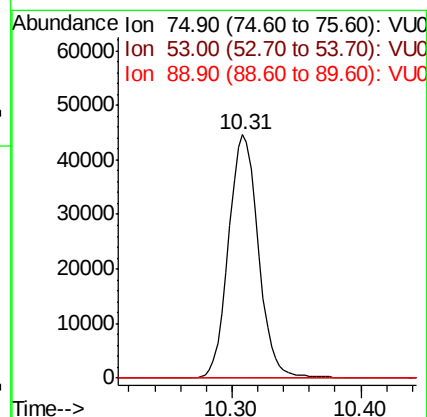
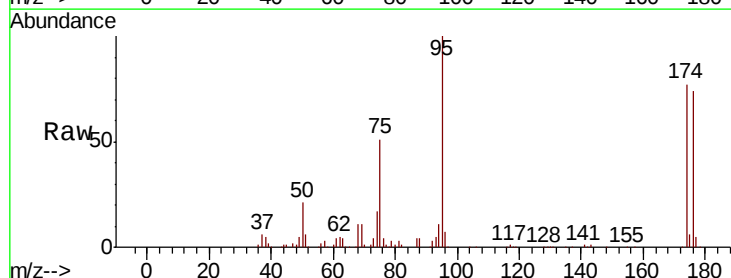
Tgt Ion: 75 Resp: 71514

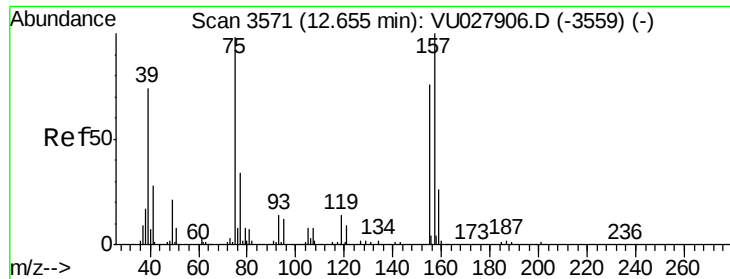
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

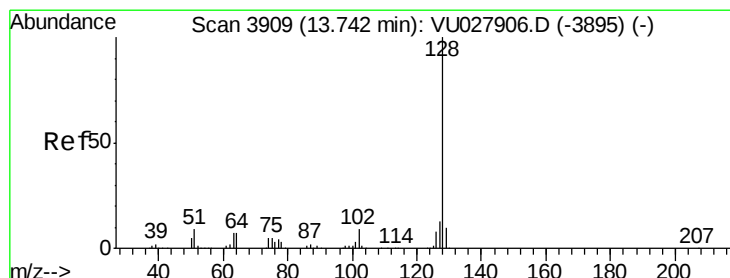
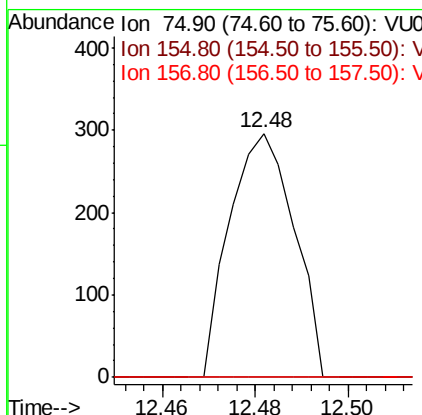
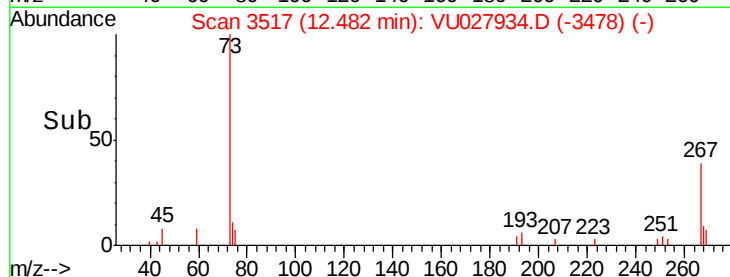
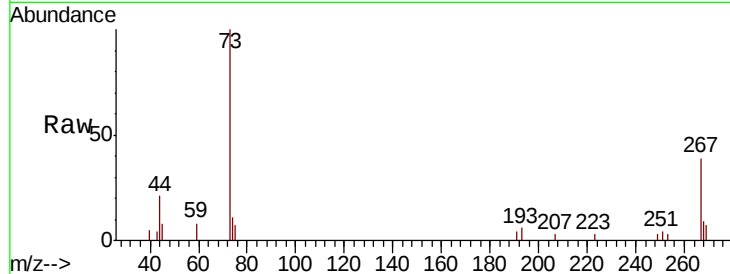




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.363 ug/l
 RT: 12.48 min Scan# 3517
 Delta R.T. -0.17 min
 Lab File: VU027934.D
 Acq: 02 Nov 2018 18:22

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-1

Tot Ion	Ratio	Lower	Upper
75	100		
155	0.0	39.8	119.3#
157	0.0	50.6	151.9#



#95
 Naphthalene
 Concen: 3.997 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.00 min
 Lab File: VU027934.D
 Acq: 02 Nov 2018 18:22

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.8	8.3	12.5

