

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110218\
 Data File : VU027918.D
 Acq On : 02 Nov 2018 12:06
 Operator : MD/SY
 Sample : J5781-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-3

Quant Time: Nov 03 04:21:04 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	192764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	330192	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	294044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	125895	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	145279	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
35) Dibromofluoromethane	4.89	113	109091	52.40	ug/l	0.00
Spiked Amount			Recovery	=	104.80%	
50) Toluene-d8	7.57	98	424350	52.77	ug/l	0.00
Spiked Amount			Recovery	=	105.54%	
62) 4-Bromofluorobenzene	10.31	95	139657	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	

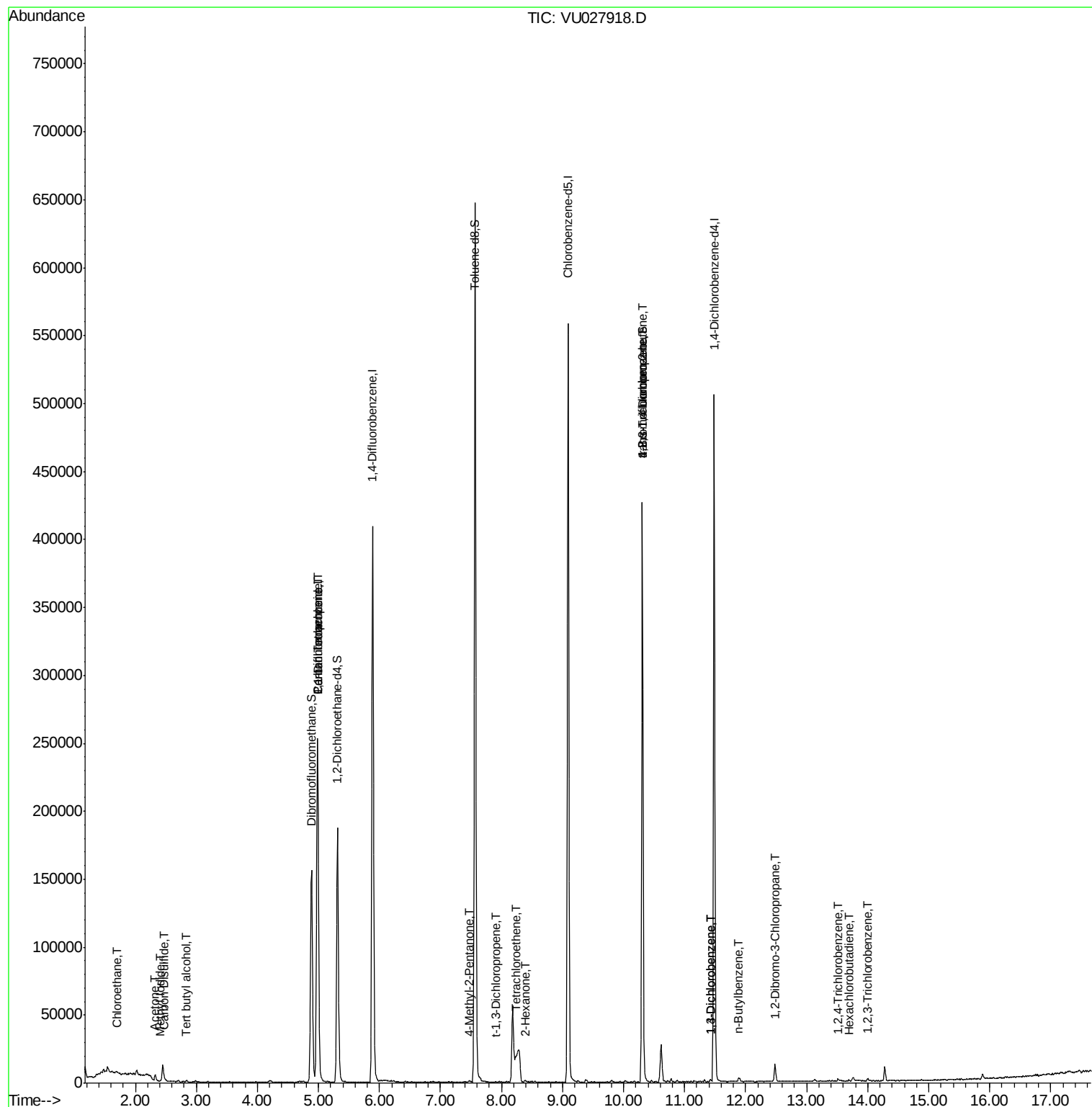
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	589	0.348	ug/l	90
10) Methyl Iodide	2.41	142	20	7.769	ug/l #	40
11) Tert butyl alcohol	2.83	59	682	0.899	ug/l #	73
13) Acrolein	2.19	56	193	Below Cal	#	1
16) Acetone	2.33	43	4855	2.730	ug/l	97
17) Carbon Disulfide	2.48	76	1982	0.300	ug/l #	75
31) Cyclohexane	4.99	56	4619	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16768	4.849	ug/l #	48
38) Carbon Tetrachloride	4.98	117	19130	6.242	ug/l #	16
51) 4-Methyl-2-Pentanone	7.47	43	1480	0.279	ug/l #	65
53) t-1,3-Dichloropropene	7.90	75	19	1.123	ug/l #	43
59) 2-Hexanone	8.39	43	985	0.240	ug/l	73
64) Tetrachloroethene	8.23	164	575	0.302	ug/l #	73
76) 1,2,3-Trichloropropane	10.31	75	76080	22.093	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	76080	55.135	ug/l #	100
87) 1,3-Dichlorobenzene	11.42	146	989	0.239	ug/l	87
88) 1,4-Dichlorobenzene	11.42	146	989	0.234	ug/l	87
89) n-Butylbenzene	11.89	91	1600	0.205	ug/l	88
92) 1,2-Dibromo-3-Chloropropan	12.48	75	429	0.518	ug/l #	4
93) 1,2,4-Trichlorobenzene	13.51	180	471	0.844	ug/l #	37
94) Hexachlorobutadiene	13.69	225	355	0.269	ug/l	85
96) 1,2,3-Trichlorobenzene	14.00	180	861	0.309	ug/l	88

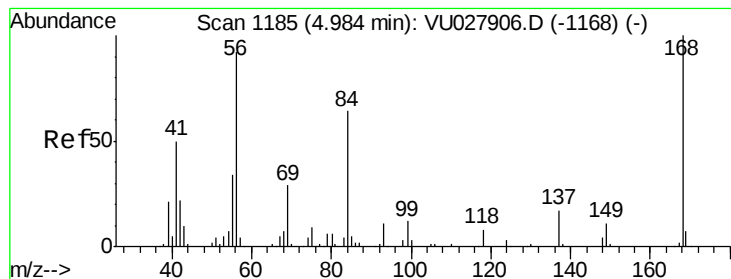
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 02 02:28:20 2018
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: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

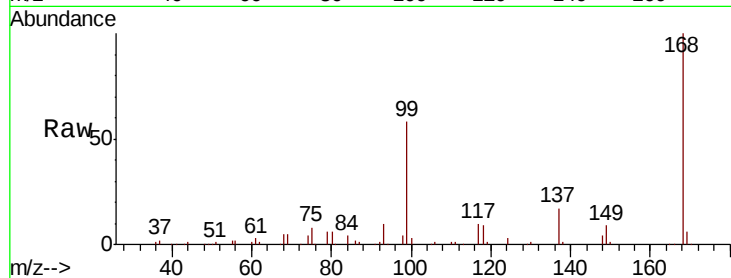
MW-3

Tot Ion:168 Resp: 192764

Ion Ratio Lower Upper

168 100

99 57.8 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

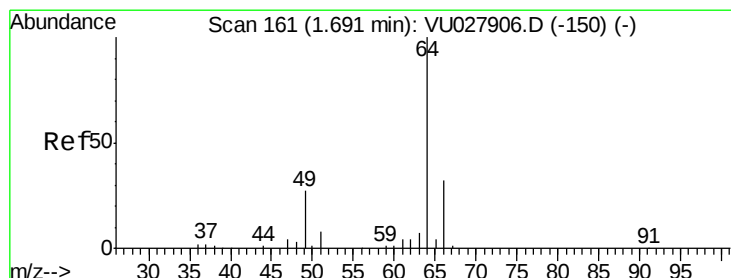
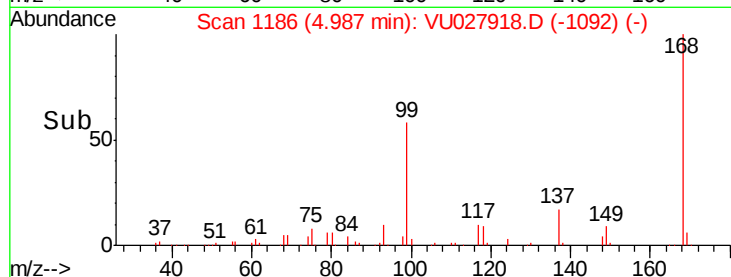
40000

20000

0

Time-->

4.90 5.00 5.10



#6

Chloroethane

Concen: 0.348 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU027918.D

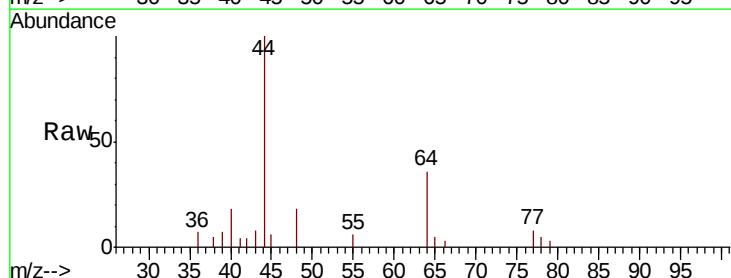
Acq: 02 Nov 2018 12:06

Tgt Ion: 64 Resp: 589

Ion Ratio Lower Upper

64 100

66 26.6 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU027906.D (-150) (-)

1.70

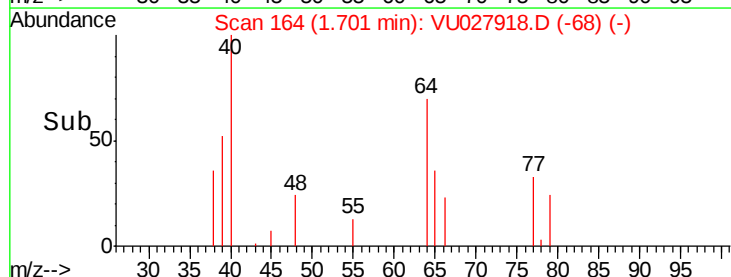
1000

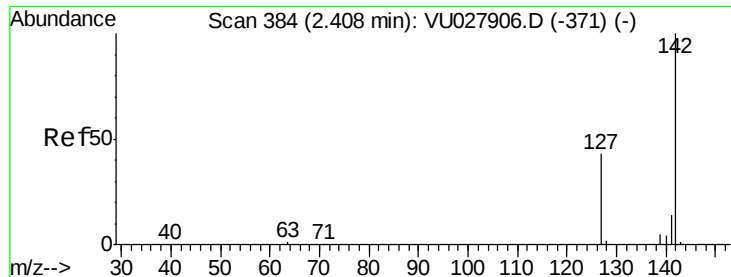
500

0

Time-->

1.66 1.68 1.70 1.72 1.74

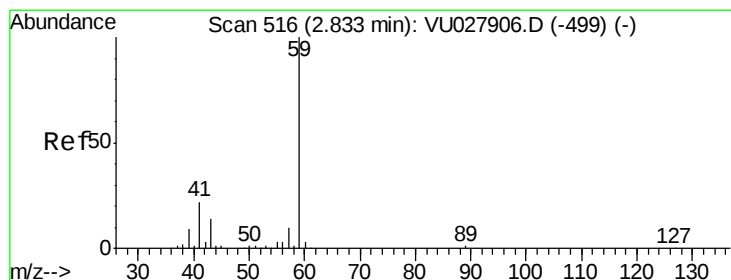
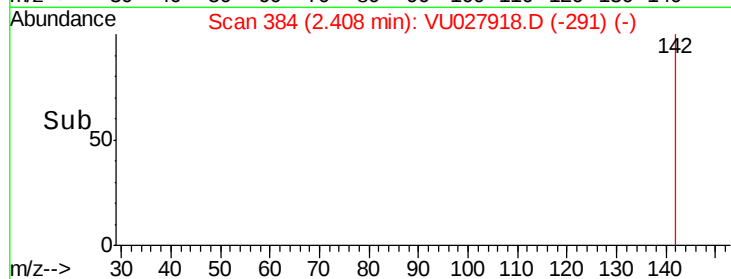
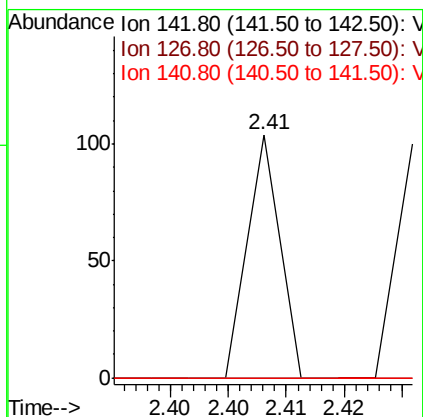
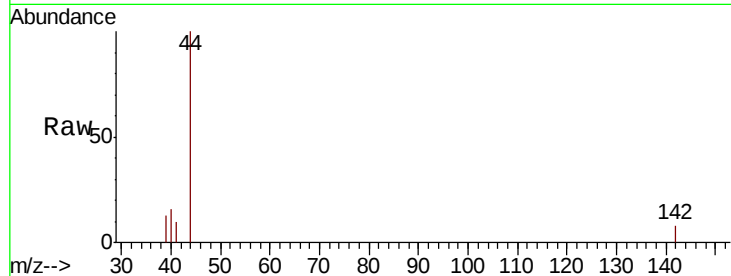




#10
Methvl Iodide
Concen: 7.769 ug/l
RT: 2.41 min Scan# 384
Delta R.T. 0.00 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

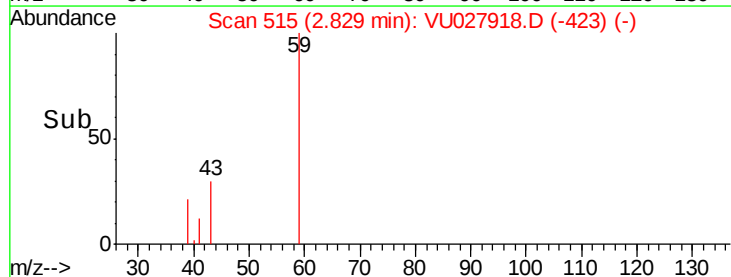
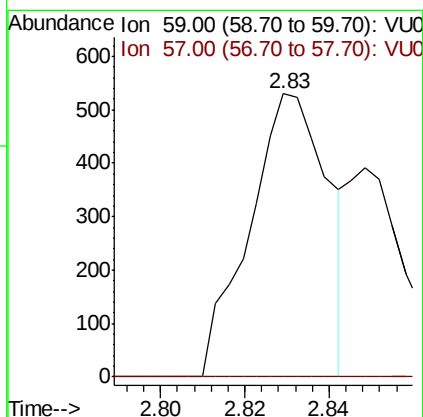
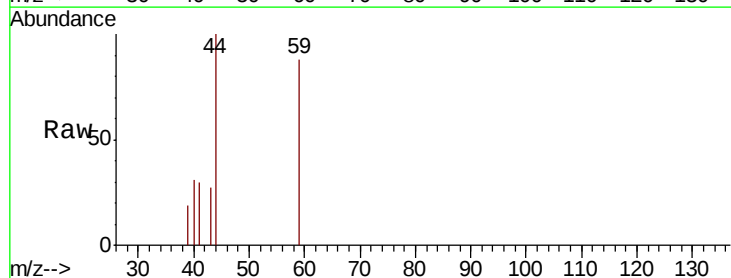
Instrument :
MSVOA_U
ClientSampleId :
MW-3

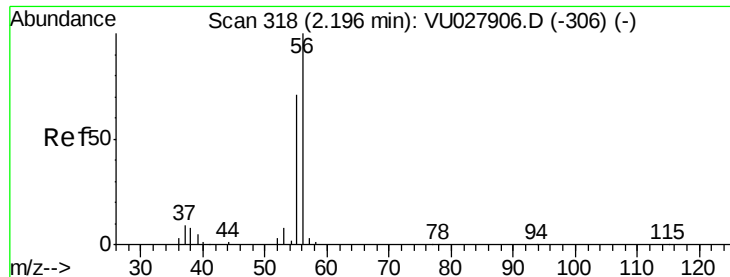
Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 35.2 52.8#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 0.899 ug/l
RT: 2.83 min Scan# 515
Delta R.T. -0.00 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

Tgt Ion: 59 Resp: 682
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

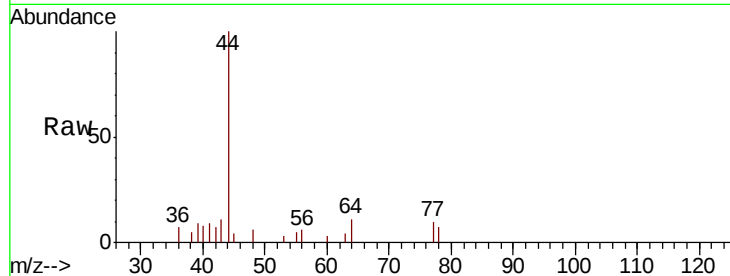
MW-3

Tot Ion: 56 Resp: 193

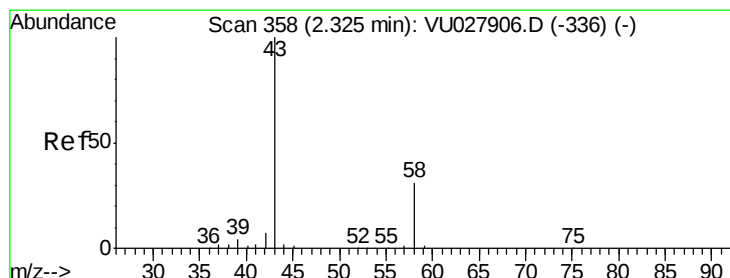
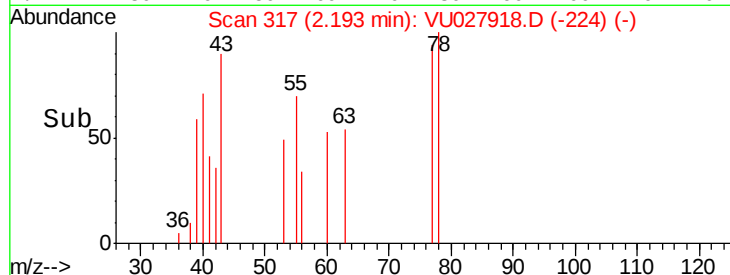
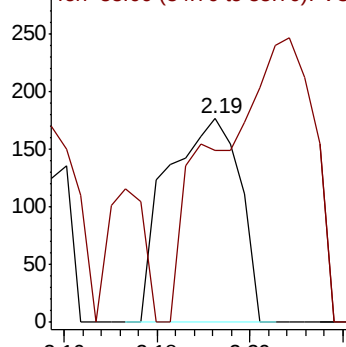
Ion Ratio Lower Upper

56 100

55 181.3 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027918.D (-224) (-)



#16

Acetone

Concen: 2.730 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.00 min

Lab File: VU027918.D

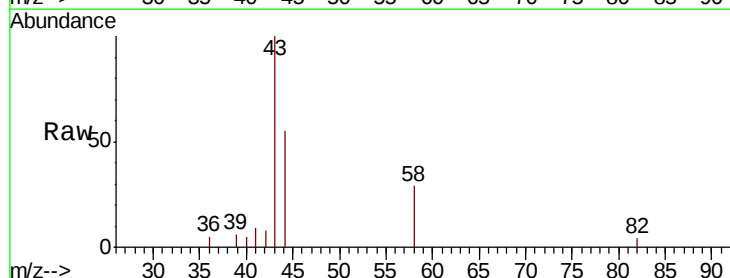
Acq: 02 Nov 2018 12:06

Tgt Ion: 43 Resp: 4855

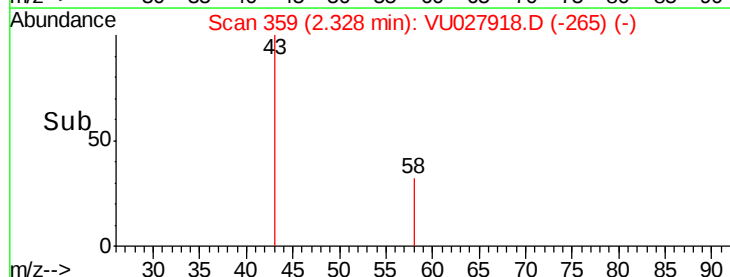
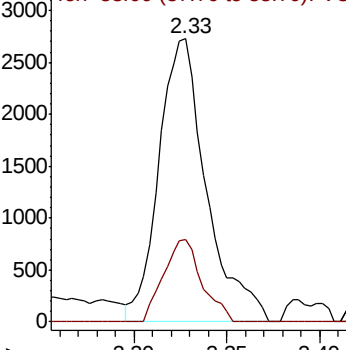
Ion Ratio Lower Upper

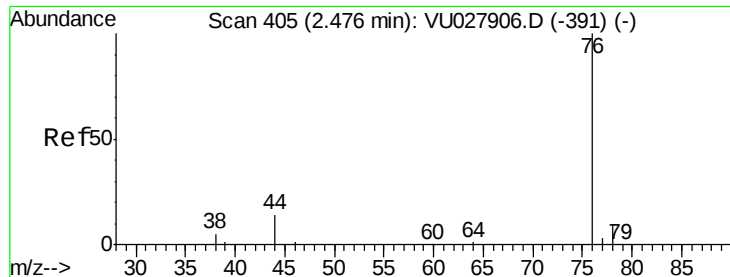
43 100

58 29.2 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU027918.D (-265) (-)





#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

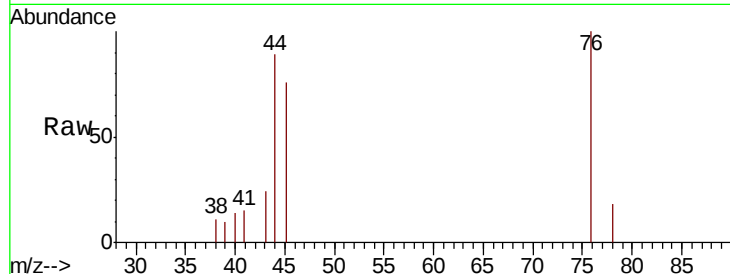
MW-3

Tot Ion: 76 Resp: 1982

Ion Ratio Lower Upper

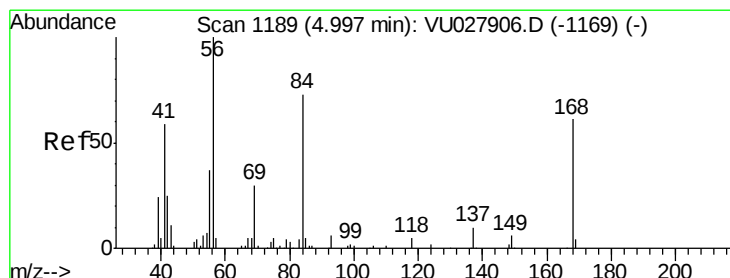
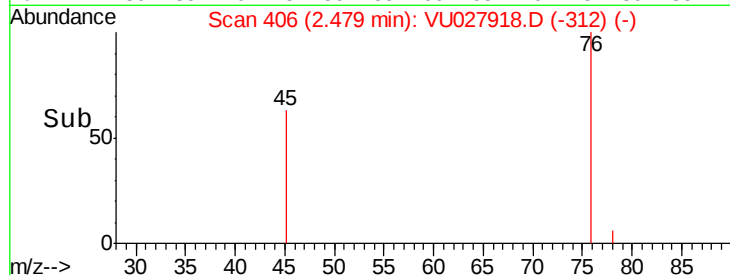
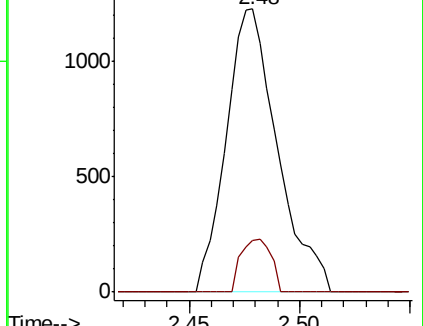
76 100

78 18.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VU027906.D (-391) (-)

Ion 77.90 (77.60 to 78.60): VU027906.D (-391) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1187

Delta R.T. -0.01 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

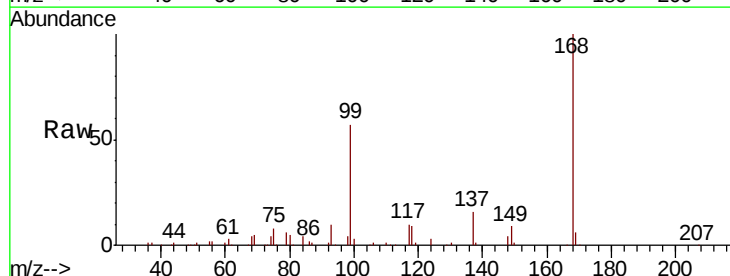
Tgt Ion: 56 Resp: 4619

Ion Ratio Lower Upper

56 100

69 196.7 23.7 35.5#

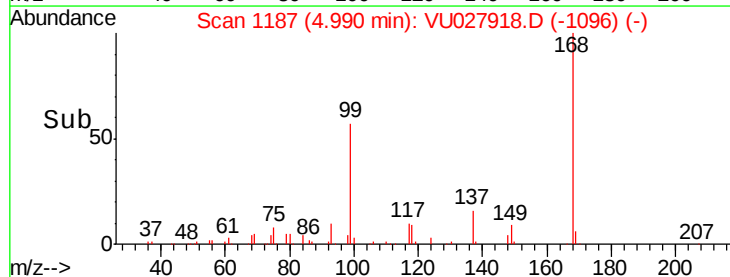
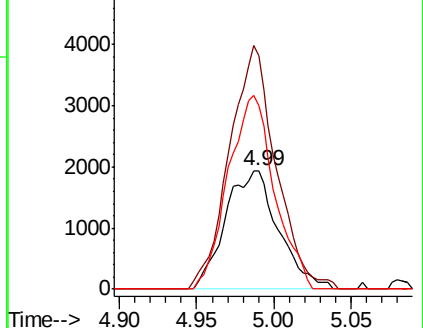
84 154.9 58.2 87.4#

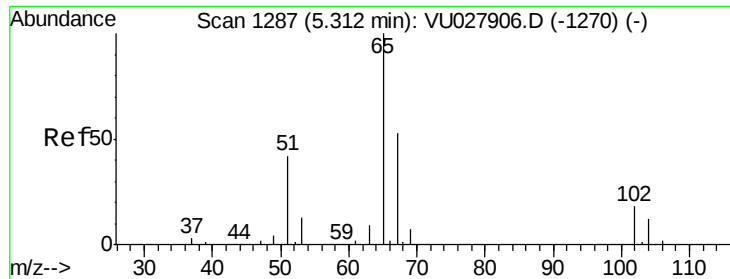


Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-1169) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1169) (-)

Ion 84.00 (83.70 to 84.70): VU027906.D (-1169) (-)





#33

1,2-Dichloroethane-d4

Concen: 50.692 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

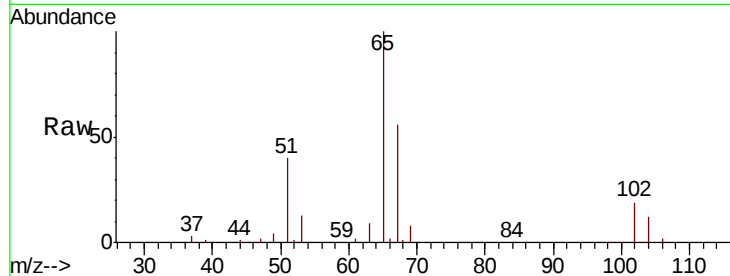
MW-3

Tot Ion: 65 Resp: 145279

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

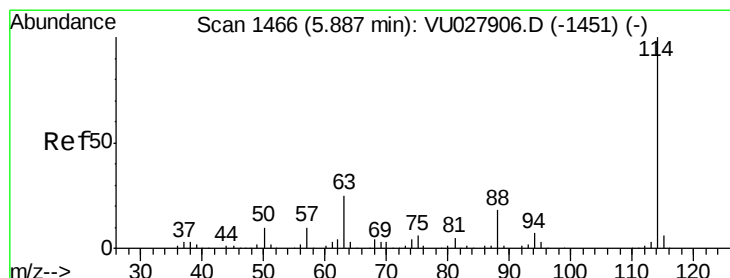
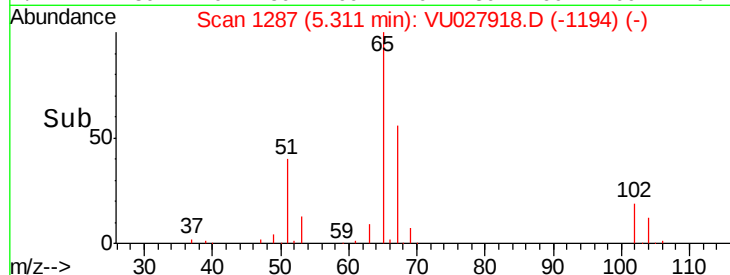
40000

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: VU027918.D

Acq: 02 Nov 2018 12:06

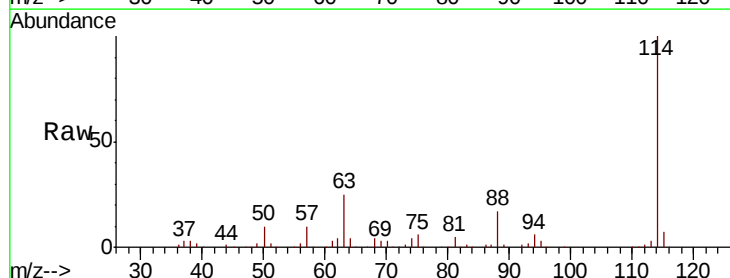
Tgt Ion: 114 Resp: 330192

Ion Ratio Lower Upper

114 100

63 24.7 0.0 50.8

88 17.3 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

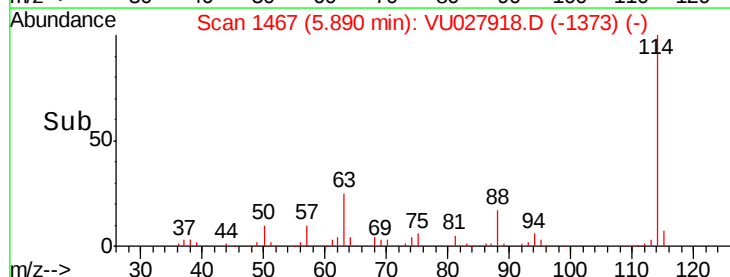
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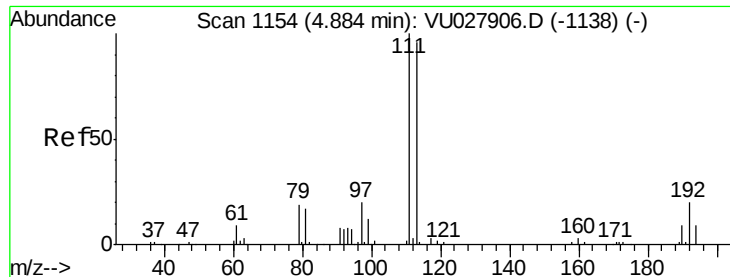
50000

0

Time-->

5.80 5.90 6.00

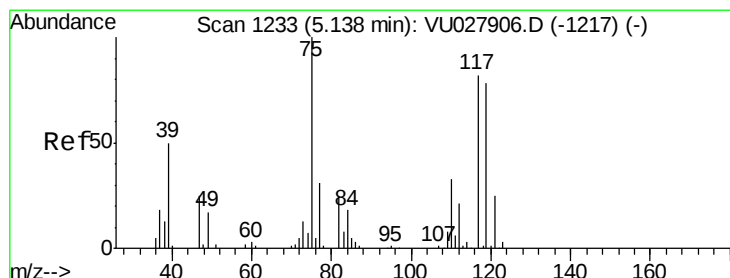
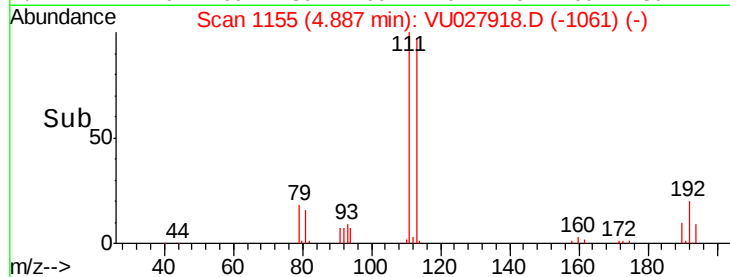
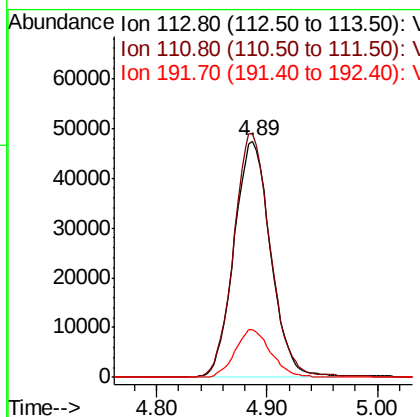
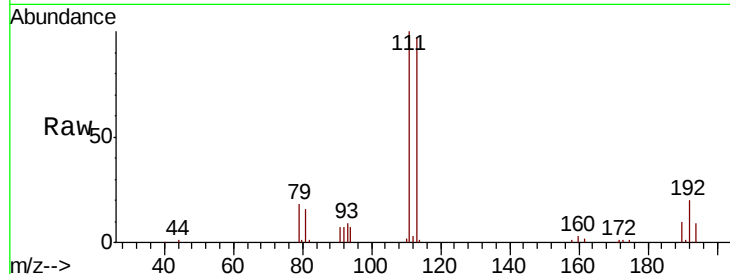




#35
 Dibromofluoromethane
 Concen: 52.399 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027918.D
 Acq: 02 Nov 2018 12:06

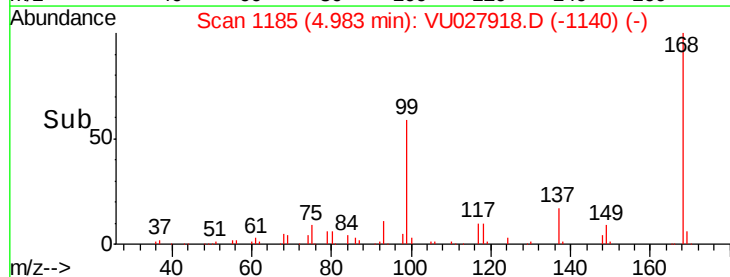
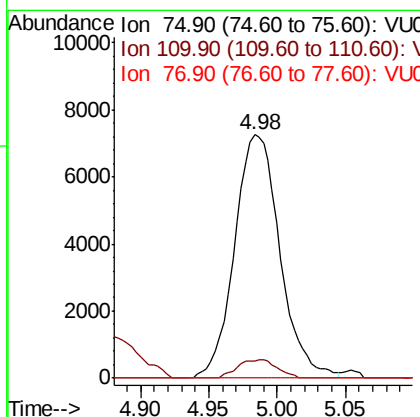
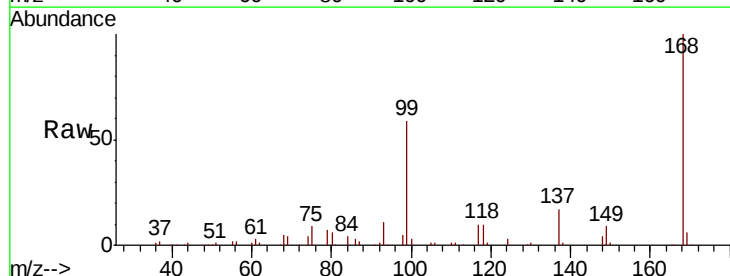
Instrument :
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 ClientSampleId :
 MW-3

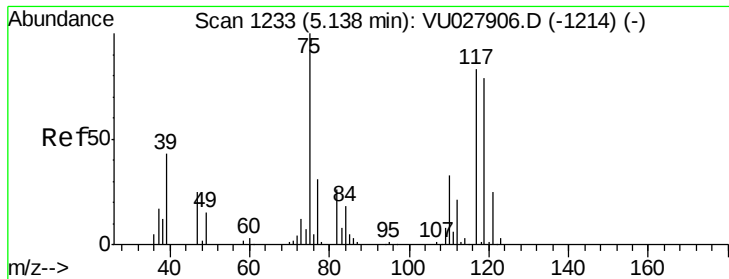
Tot Ion:113 Resp: 109091
 Ion Ratio Lower Upper
 113 100
 111 103.1 83.0 124.6
 192 19.8 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.849 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027918.D
 Acq: 02 Nov 2018 12:06

Tgt Ion: 75 Resp: 16768
 Ion Ratio Lower Upper
 75 100
 110 6.5 16.5 49.5#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.242 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

MW-3

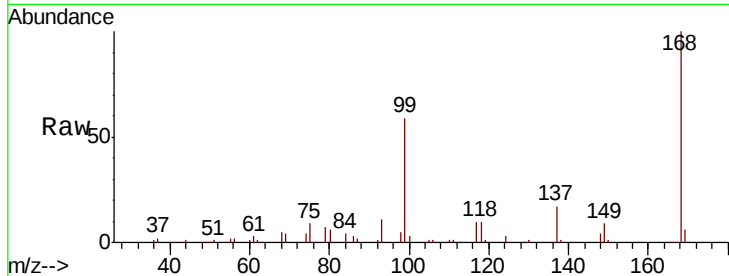
Tot Ion:117 Resp: 19130

Ion Ratio Lower Upper

117 100

119 5.3 76.0 114.0#

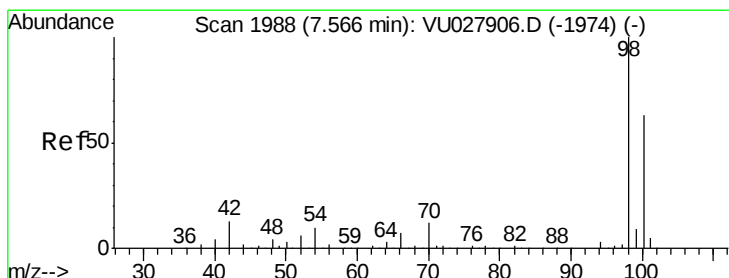
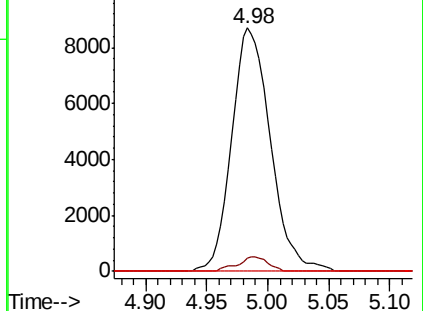
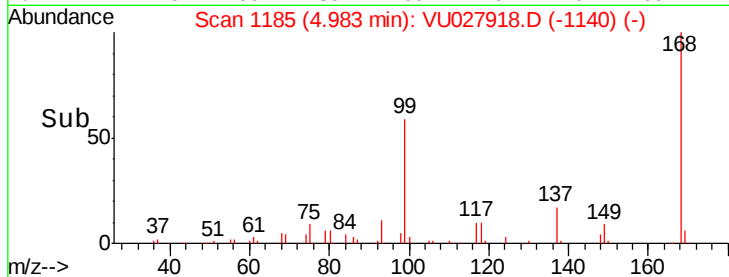
121 0.0 24.5 36.7#



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



#50

Toluene-d8

Concen: 52.765 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027918.D

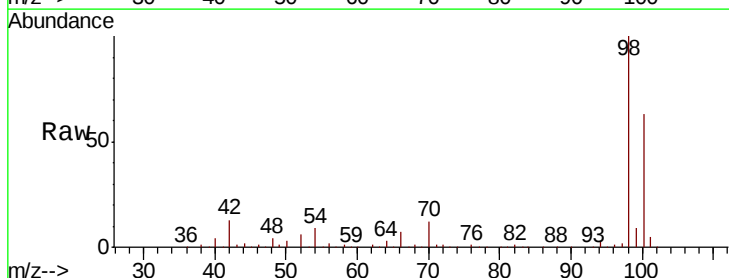
Acq: 02 Nov 2018 12:06

Tgt Ion: 98 Resp: 424350

Ion Ratio Lower Upper

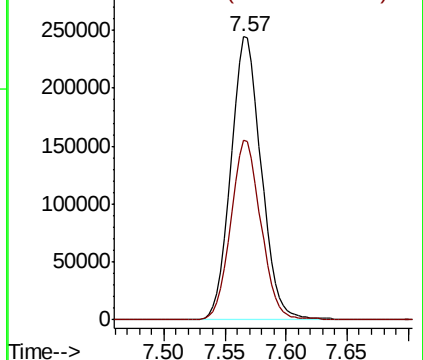
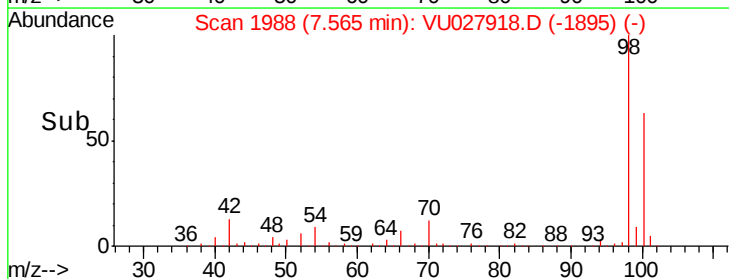
98 100

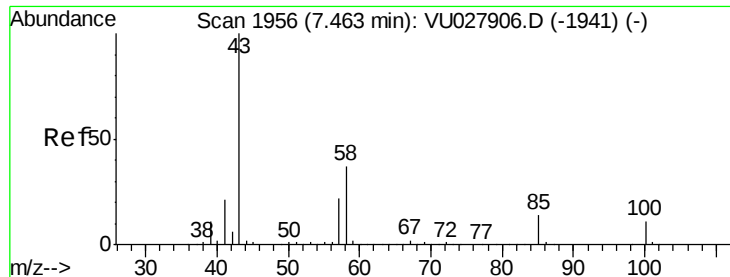
100 62.9 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.279 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

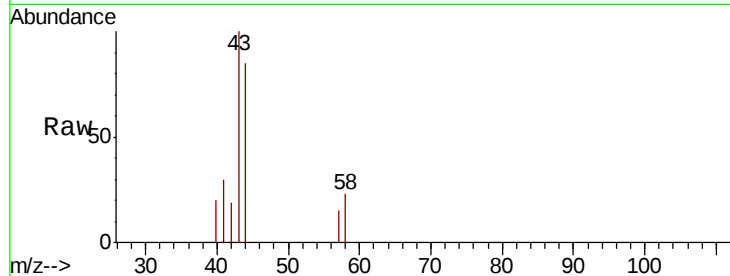
MW-3

Tot Ion: 43 Resp: 1480

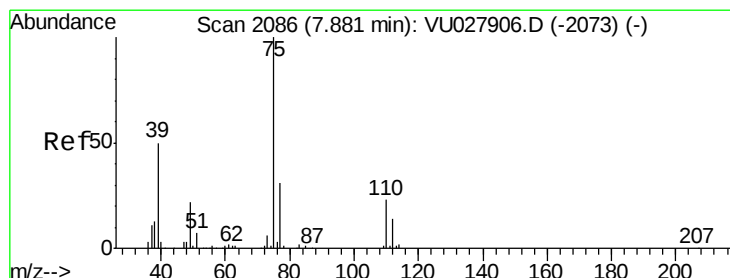
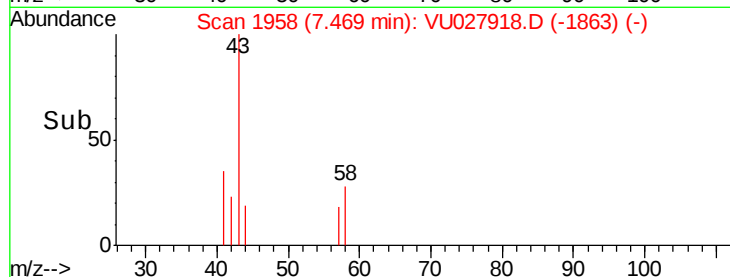
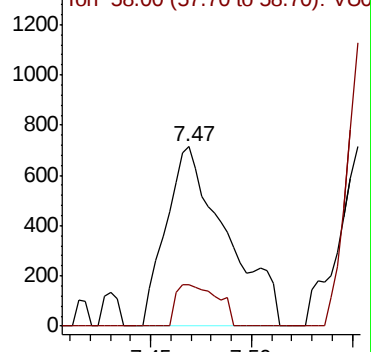
Ion Ratio Lower Upper

43 100

58 16.1 29.5 44.3#



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



#53

t-1,3-Dichloropropene

Concen: 1.123 ug/l

RT: 7.90 min Scan# 2091

Delta R.T. 0.02 min

Lab File: VU027918.D

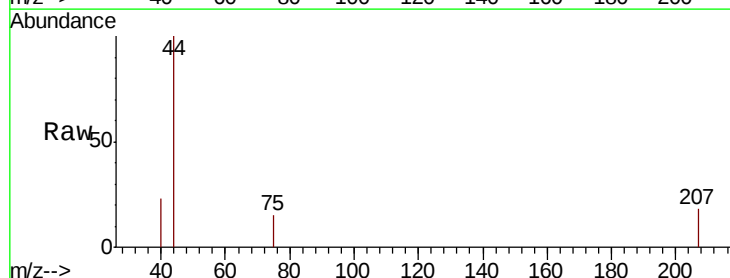
Acq: 02 Nov 2018 12:06

Tgt Ion: 75 Resp: 19

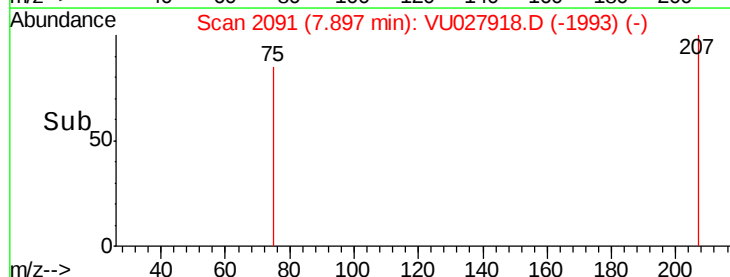
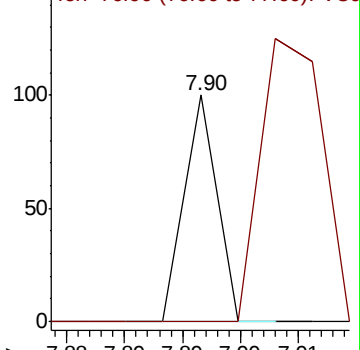
Ion Ratio Lower Upper

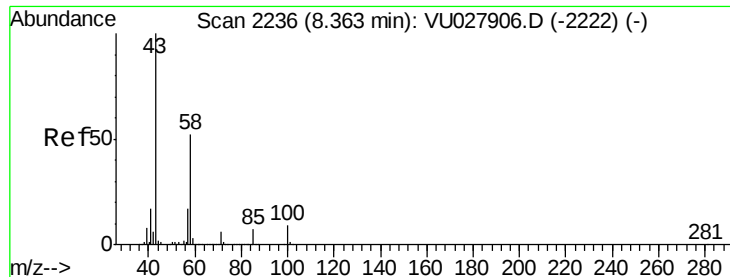
75 100

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-2073) (-)

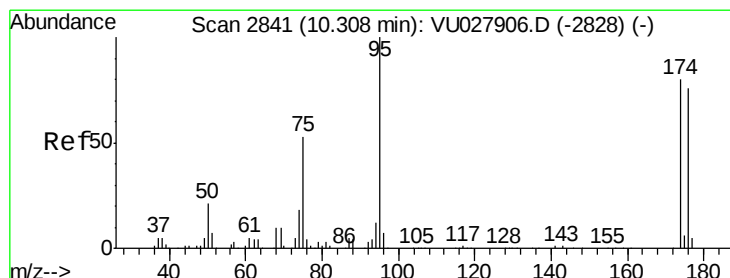
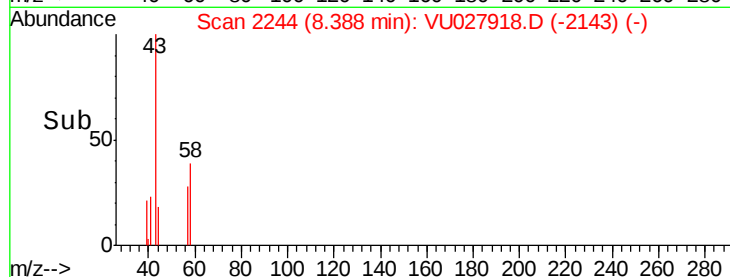
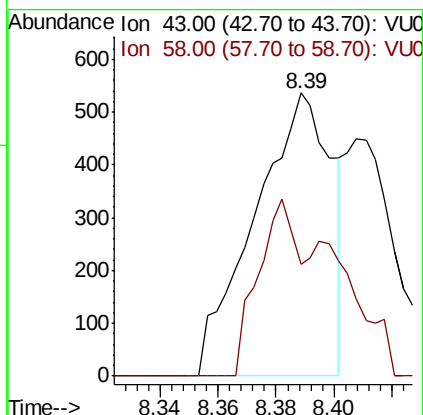
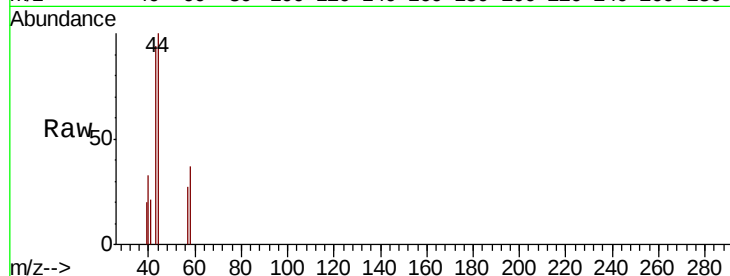




#59
2-Hexanone
Concen: 0.240 ug/l
RT: 8.39 min Scan# 2244
Delta R.T. 0.03 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

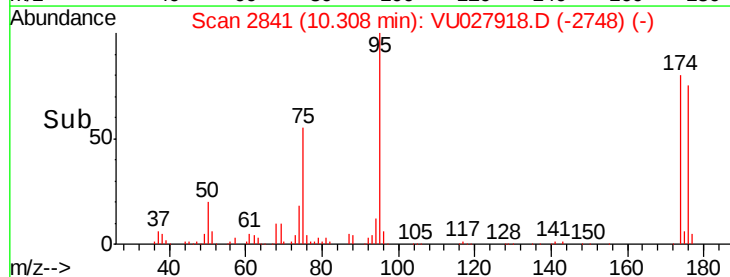
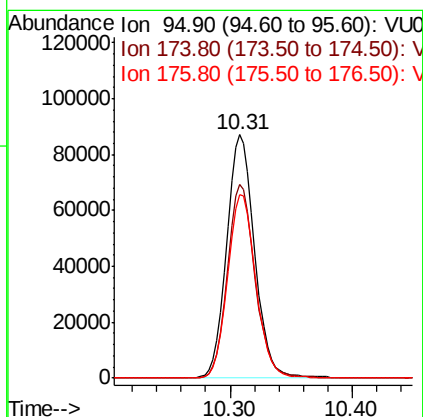
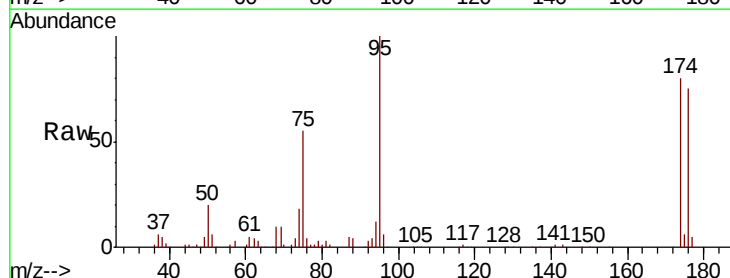
Instrument :
MSVOA_U
ClientSampleId :
MW-3

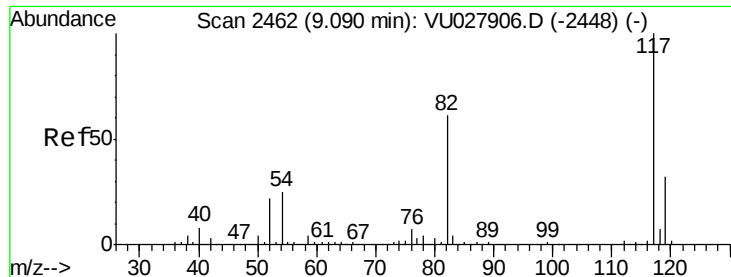
Tot Ion: 43 Resp: 985
Ion Ratio Lower Upper
43 100
58 32.3 25.8 77.3



#62
4-Bromofluorobenzene
Concen: 47.081 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

Tgt Ion: 95 Resp: 139657
Ion Ratio Lower Upper
95 100
174 78.9 0.0 156.4
176 76.4 0.0 150.8

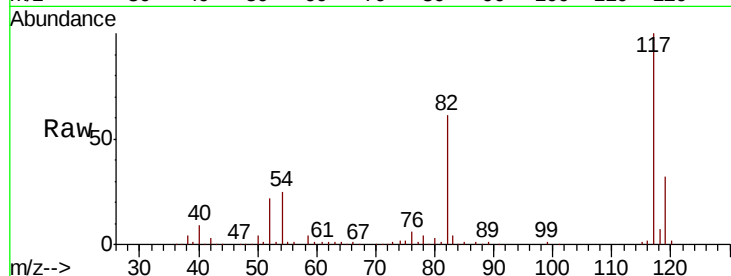




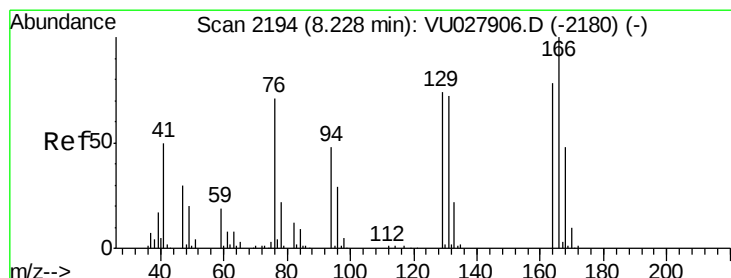
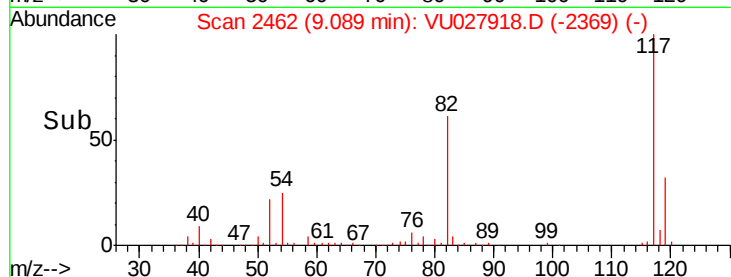
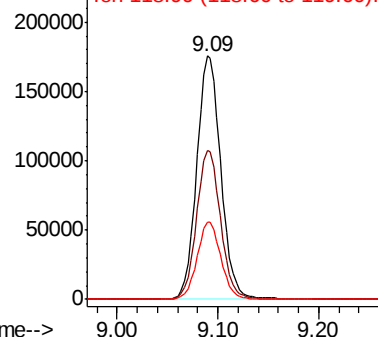
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

Instrument :
MSVOA_U
ClientSampleId :
MW-3

Tot Ion:117 Resp: 294044
Ion Ratio Lower Upper
117 100
82 61.4 48.6 73.0
119 31.5 25.8 38.8

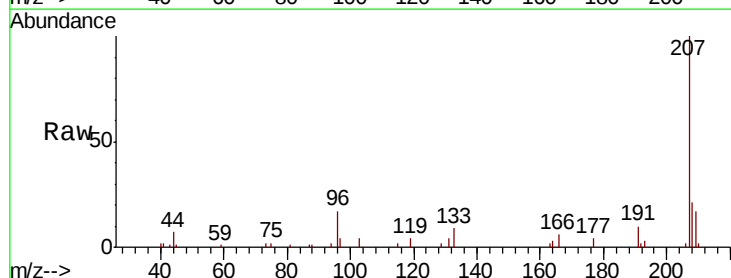


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

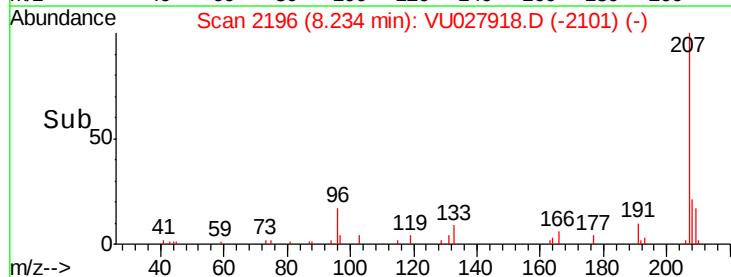
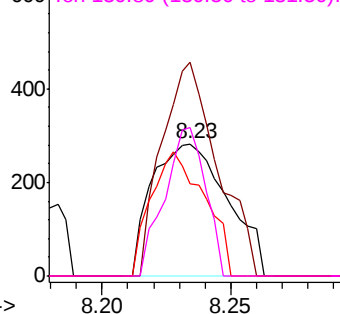


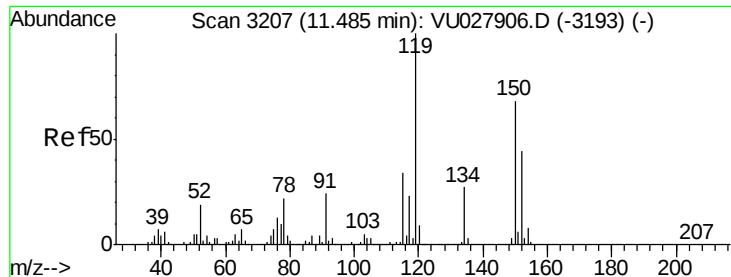
#64
Tetrachloroethene
Concen: 0.302 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

Tgt Ion:164 Resp: 575
Ion Ratio Lower Upper
164 100
166 162.1 102.1 153.1#
129 69.5 75.9 113.9#
131 112.8 73.0 109.6#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampleId :

MW-3

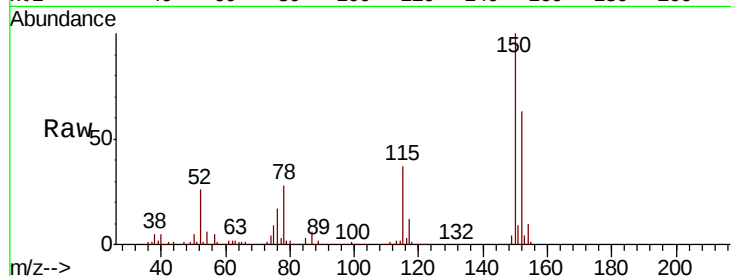
Tot Ion:152 Resp: 125895

Ion Ratio Lower Upper

152 100

115 58.3 43.0 129.0

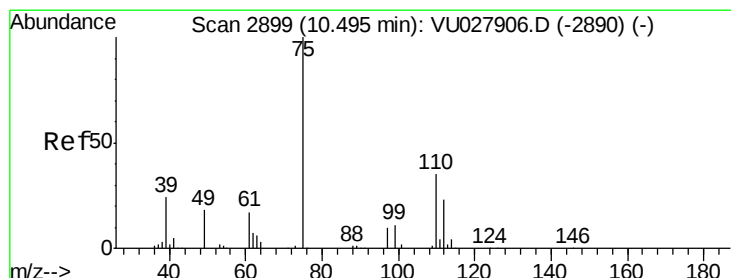
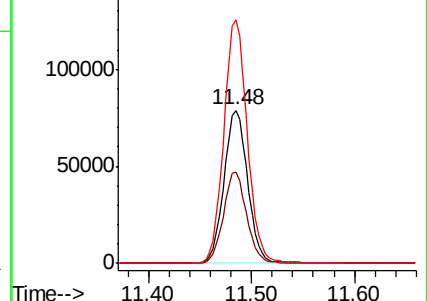
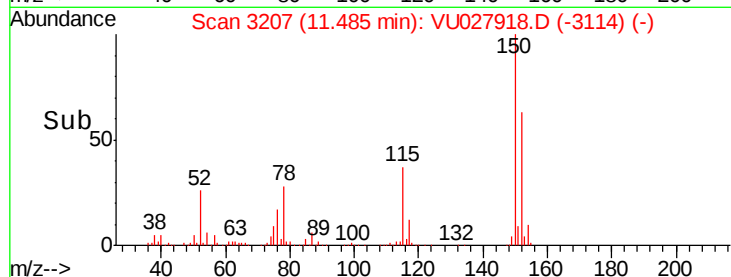
150 157.8 0.0 349.4



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: 22.093 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027918.D

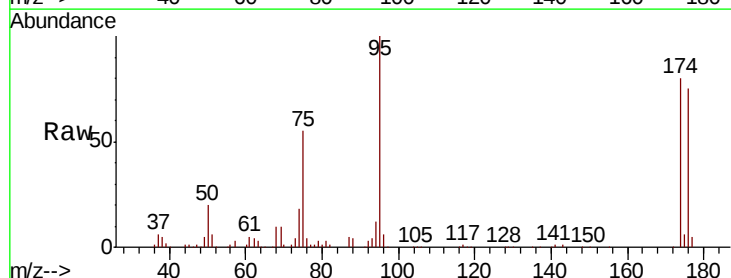
Acq: 02 Nov 2018 12:06

Tgt Ion: 75 Resp: 76080

Ion Ratio Lower Upper

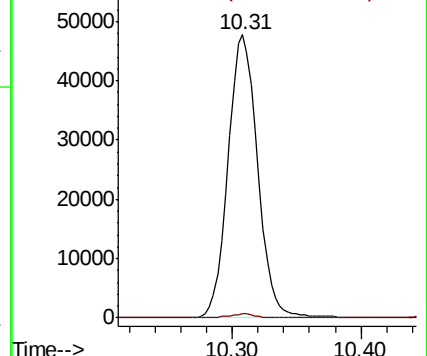
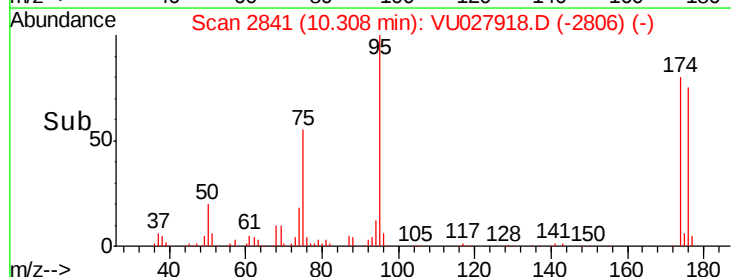
75 100

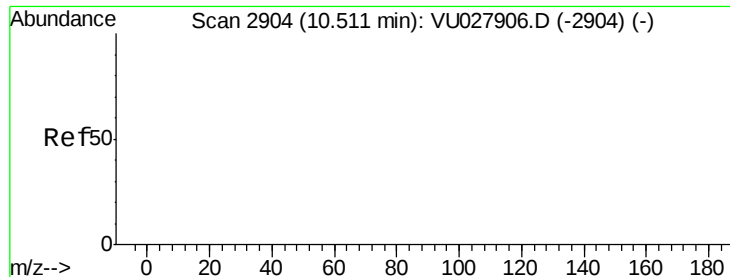
77 1.2 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

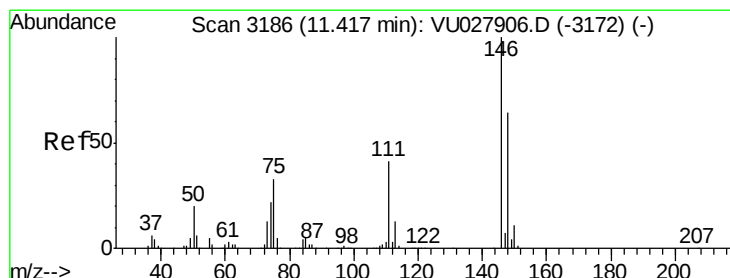
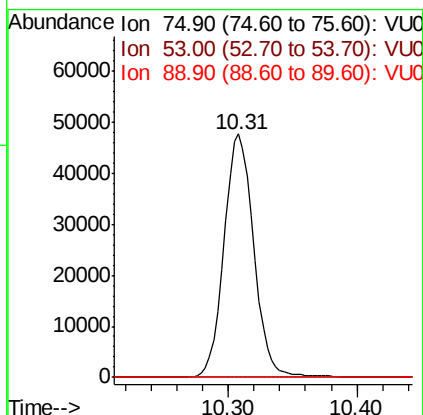
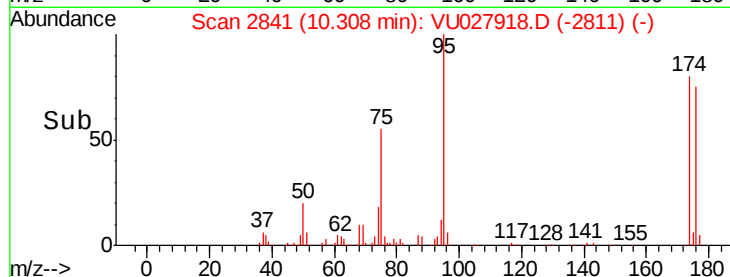
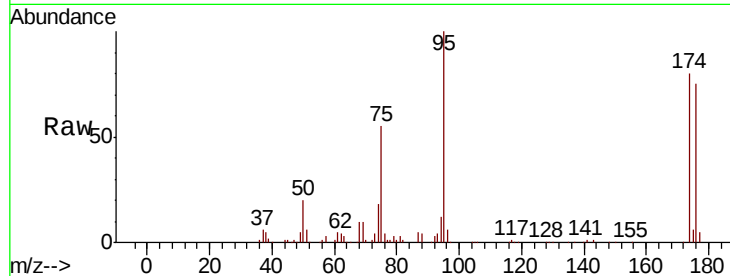




#81
trans-1,4-Dichloro-2-butene
Concen: 55.135 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

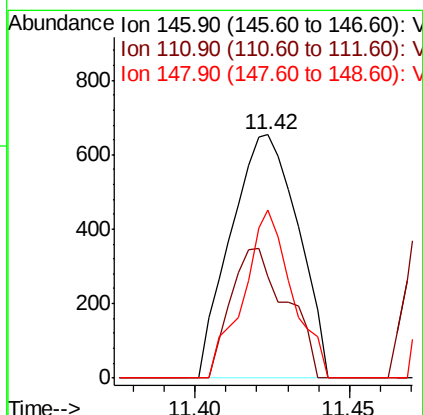
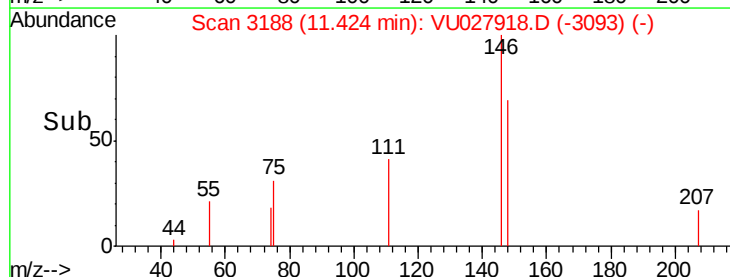
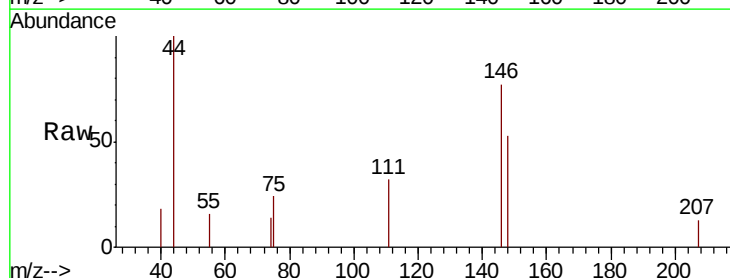
Instrument :
MSVOA_U
ClientSampled :
MW-3

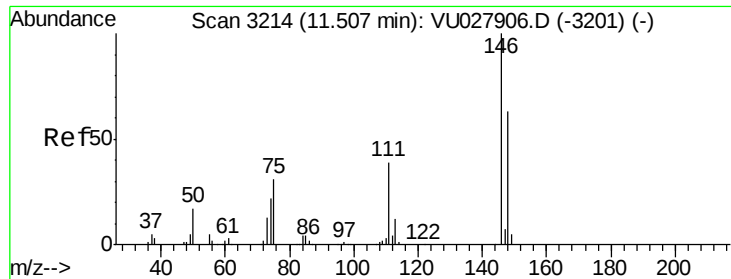
Tot Ion: 75 Resp: 76080
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#87
1,3-Dichlorobenzene
Concen: 0.239 ug/l
RT: 11.42 min Scan# 3188
Delta R.T. 0.01 min
Lab File: VU027918.D
Acq: 02 Nov 2018 12:06

Tgt Ion: 146 Resp: 989
Ion Ratio Lower Upper
146 100
111 44.4 20.3 61.0
148 50.3 31.8 95.4

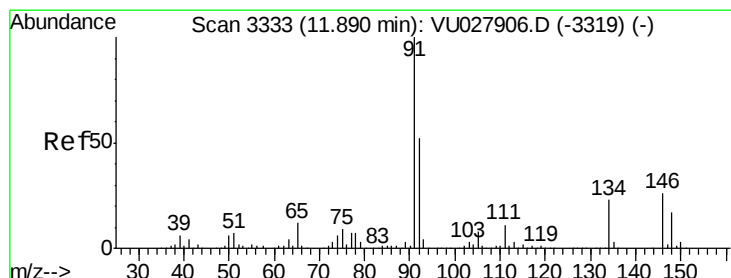
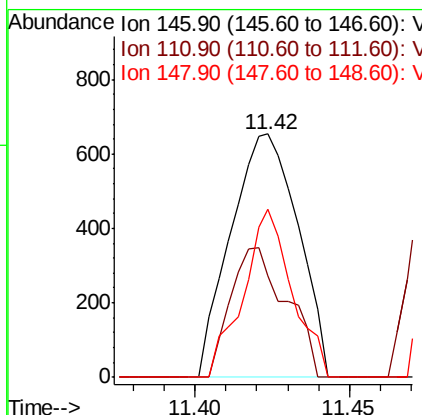
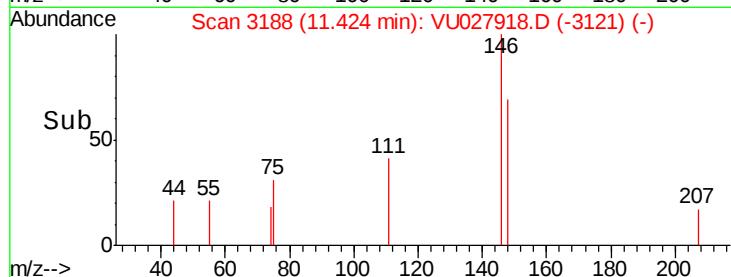
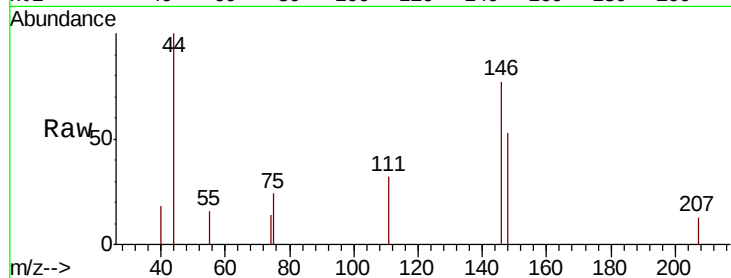




#88
 1,4-Dichlorobenzene
 Concen: 0.234 ug/l
 RT: 11.42 min Scan# 3188
 Delta R.T. -0.08 min
 Lab File: VU027918.D
 Acq: 02 Nov 2018 12:06

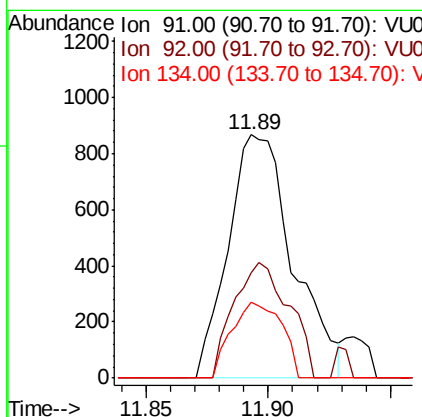
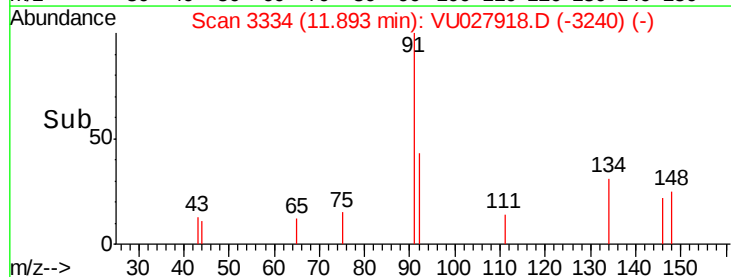
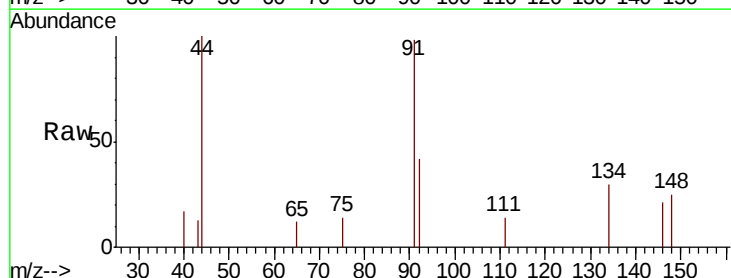
Instrument :
 MSVOA_U
 ClientSampled :
 MW-3

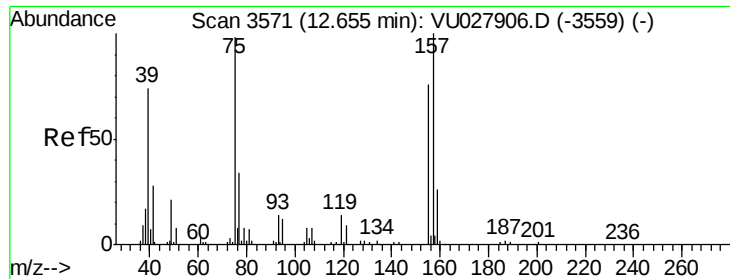
Tot Ion:146 Resp: 989
 Ion Ratio Lower Upper
 146 100
 111 44.4 20.3 60.9
 148 50.3 32.0 96.2



#89
 n-Butylbenzene
 Concen: 0.205 ug/l
 RT: 11.89 min Scan# 3334
 Delta R.T. 0.00 min
 Lab File: VU027918.D
 Acq: 02 Nov 2018 12:06

Tgt Ion: 91 Resp: 1600
 Ion Ratio Lower Upper
 91 100
 92 40.4 26.2 78.5
 134 23.9 11.5 34.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.518 ug/l

RT: 12.48 min Scan# 3517

Delta R.T. -0.17 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

MW-3

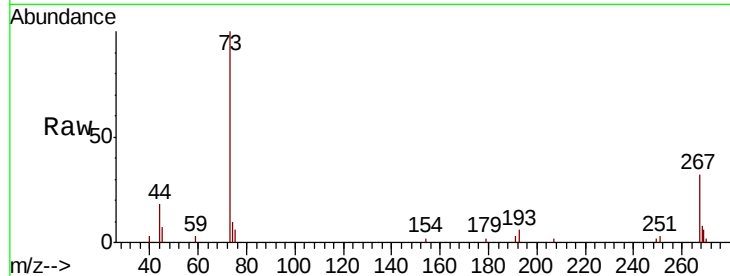
Tot Ion: 75 Resp: 429

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

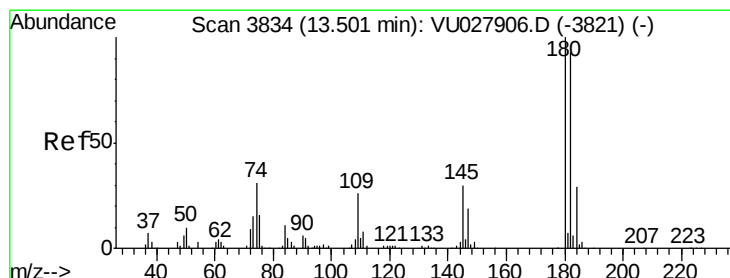
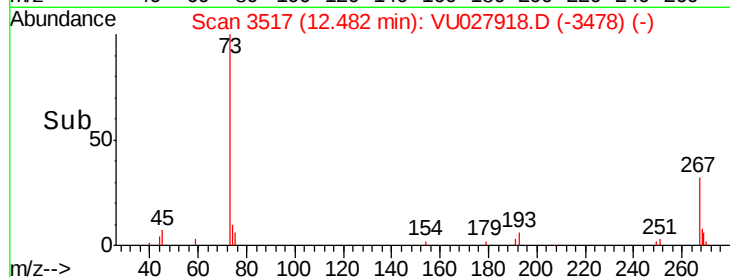
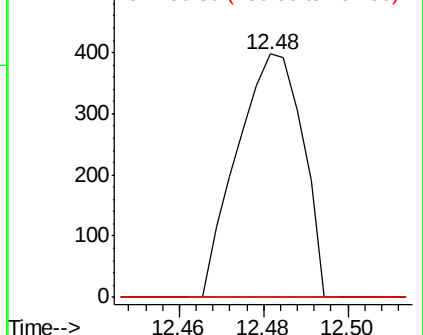
157 0.0 50.6 151.9#



Abundance Ion 74.90 (74.60 to 75.60): VU027918.D (-3478) (-)

Ion 154.80 (154.50 to 155.50): VU027918.D (-3478) (-)

Ion 156.80 (156.50 to 157.50): VU027918.D (-3478) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.844 ug/l

RT: 13.51 min Scan# 3837

Delta R.T. 0.01 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

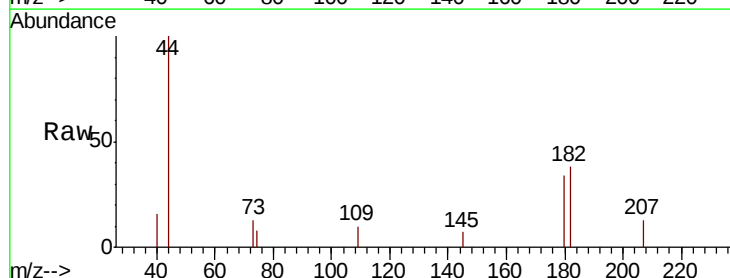
Tgt Ion: 180 Resp: 471

Ion Ratio Lower Upper

180 100

182 175.2 48.4 145.2#

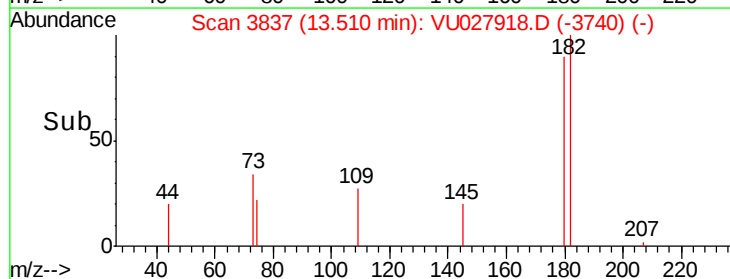
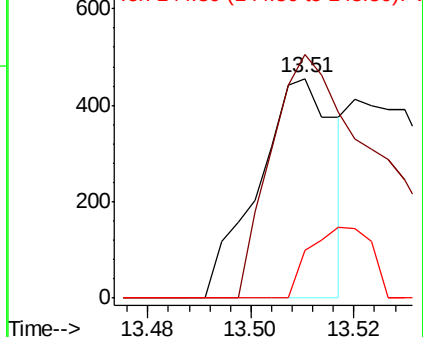
145 25.9 14.9 44.5

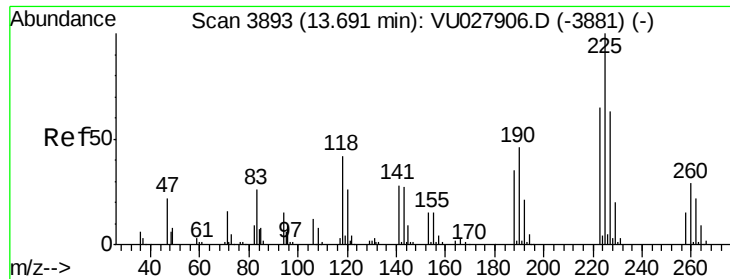


Abundance Ion 179.80 (179.50 to 180.50): VU027918.D (-3740) (-)

Ion 181.80 (181.50 to 182.50): VU027918.D (-3740) (-)

Ion 144.80 (144.50 to 145.50): VU027918.D (-3740) (-)





#94

Hexachlorobutadiene

Concen: 0.269 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

Instrument :

MSVOA_U

ClientSampled :

MW-3

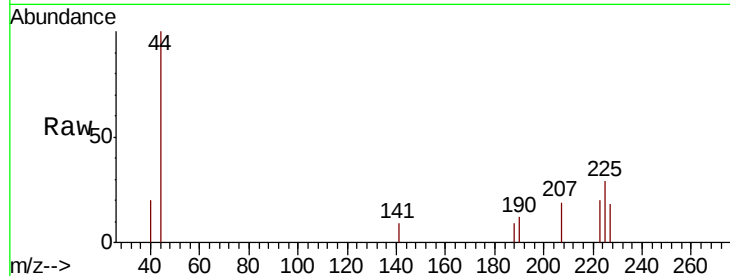
Tot Ion:225 Resp: 355

Ion Ratio Lower Upper

225 100

223 72.7 32.2 96.6

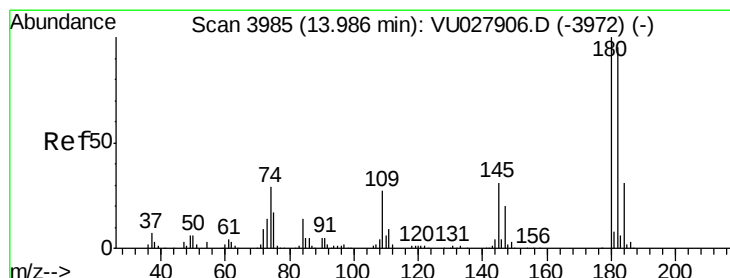
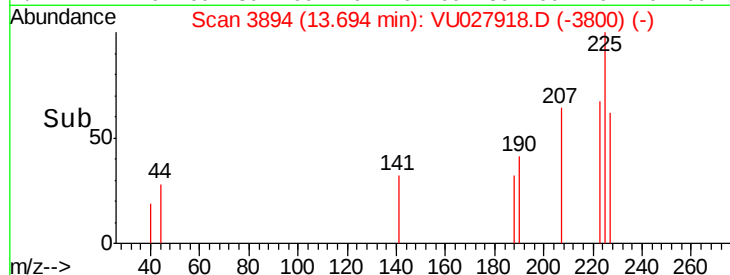
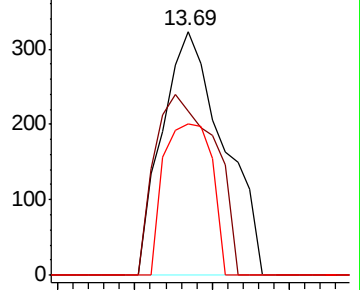
227 49.0 32.5 97.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.309 ug/l

RT: 14.00 min Scan# 3988

Delta R.T. 0.01 min

Lab File: VU027918.D

Acq: 02 Nov 2018 12:06

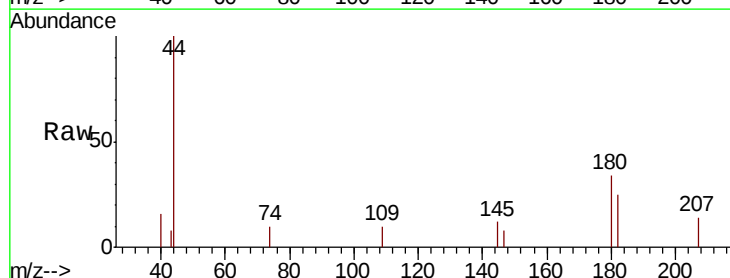
Tgt Ion:180 Resp: 861

Ion Ratio Lower Upper

180 100

182 87.7 47.4 142.3

145 18.1 16.0 47.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

