

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110218\
 Data File : VU027932.D
 Acq On : 02 Nov 2018 17:35
 Operator : MD/SY
 Sample : J5759-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-3

Quant Time: Nov 03 04:24:42 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	194309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	344105	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	304957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	126146	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	149529	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
35) Dibromofluoromethane	4.89	113	112346	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
50) Toluene-d8	7.57	98	439062	52.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.78%	
62) 4-Bromofluorobenzene	10.31	95	143597	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	

Target Compounds

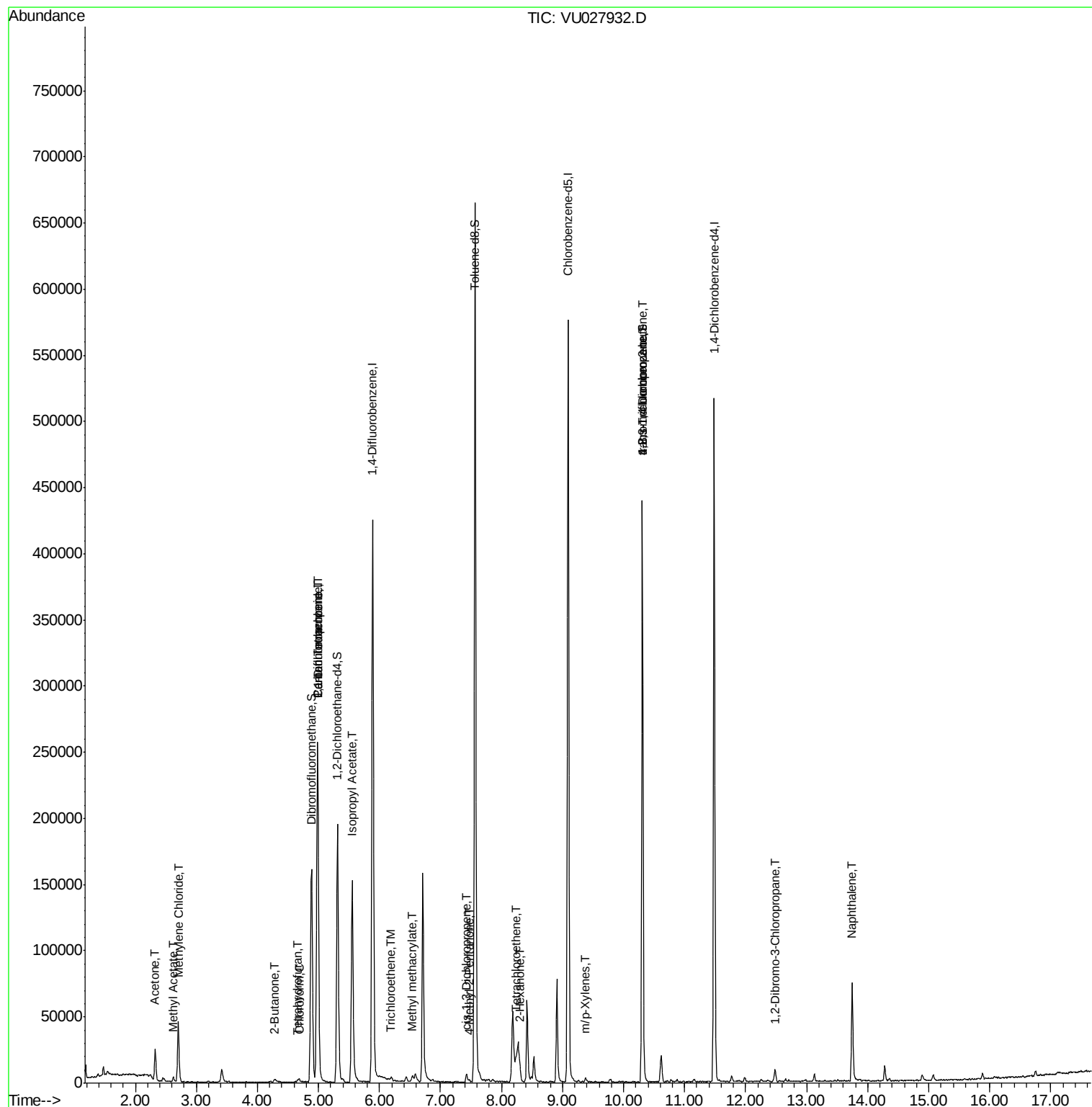
					Qvalue
13) Acrolein	2.17	56	181	Below Cal	# 1
16) Acetone	2.32	43	24218	13.512	ug/l 97
18) Methyl Acetate	2.62	43	4446	0.902	ug/l 93
20) Methylene Chloride	2.70	84	18827	7.194	ug/l 95
25) 2-Butanone	4.28	43	5064	1.776	ug/l # 88
29) Tetrahydrofuran	4.66	42	523	0.275	ug/l # 81
30) Chloroform	4.68	83	1629	0.347	ug/l 92
31) Cyclohexane	4.98	56	2546	Below Cal	# 6
36) 1,1-Dichloropropene	4.98	75	17039	4.728	ug/l # 49
38) Carbon Tetrachloride	4.98	117	20251	6.341	ug/l # 15
43) Isopropyl Acetate	5.55	43	184430	22.293	ug/l 100
44) Trichloroethene	6.19	130	1066	0.450	ug/l 90
48) Methyl methacrylate	6.54	41	7269	1.793	ug/l # 25
51) 4-Methyl-2-Pentanone	7.47	43	1523	0.276	ug/l 94
54) cis-1,3-Dichloropropene	7.42	75	1116	0.257	ug/l # 60
59) 2-Hexanone	8.31	43	1510	0.353	ug/l # 26
64) Tetrachloroethene	8.23	164	637	0.322	ug/l 87
68) m/p-Xylenes	9.38	106	1043	0.242	ug/l 83
76) 1,2,3-Trichloropropane	10.31	75	75341	21.835	ug/l # 35
81) trans-1,4-Dichloro-2-buten	10.31	75	75341	54.494	ug/l # 100
92) 1,2-Dibromo-3-Chloropropan	12.48	75	307	0.370	ug/l # 4
95) Naphthalene	13.75	128	61535	5.786	ug/l 99

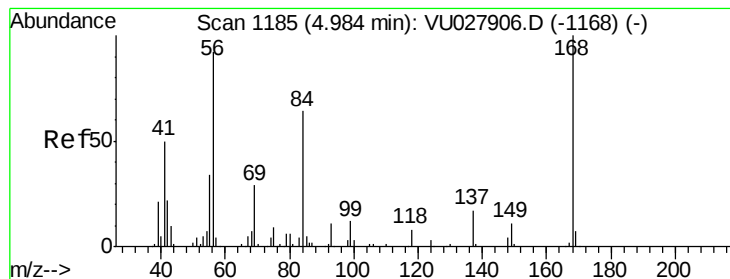
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

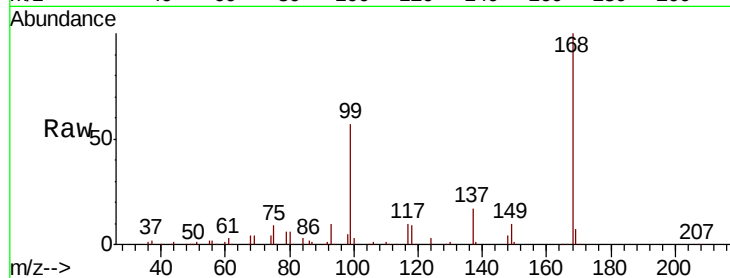
Instrument :
MSVOA_U
ClientSampleId :
TP-3

Tot Ion:168 Resp: 194309

Ion Ratio Lower Upper

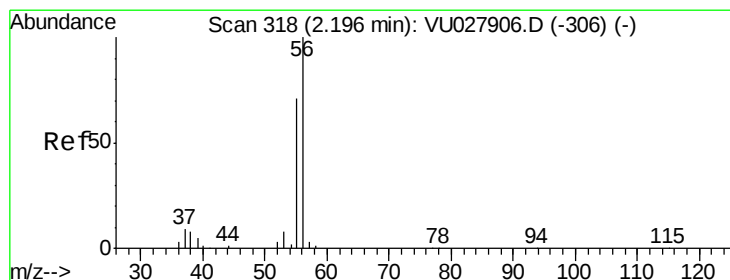
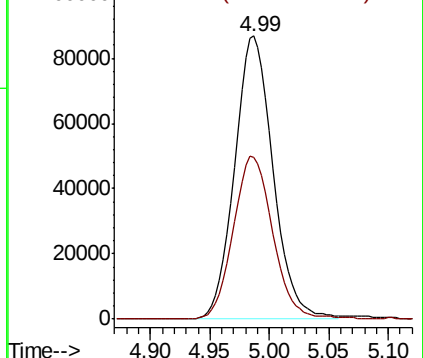
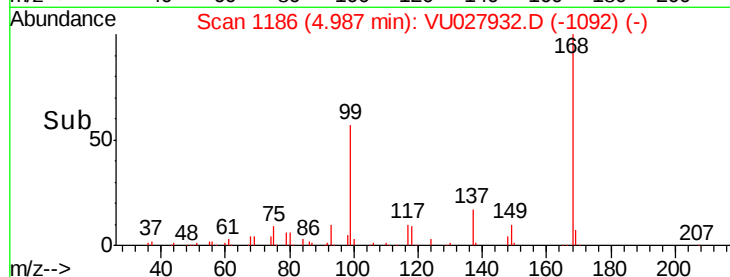
168 100

99 57.3 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU027932.D (-1092) (-)



#13

Acrolein

Concen: Below Cal

RT: 2.17 min Scan# 310

Delta R.T. -0.02 min

Lab File: VU027932.D

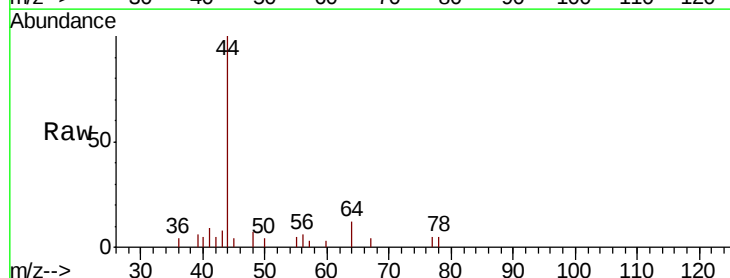
Acq: 02 Nov 2018 17:35

Tgt Ion: 56 Resp: 181

Ion Ratio Lower Upper

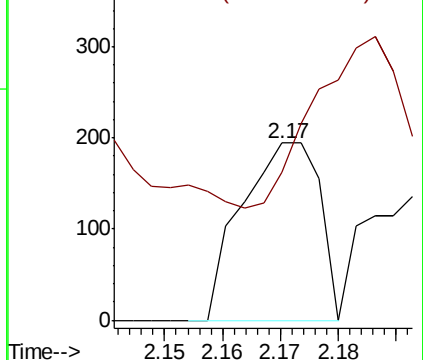
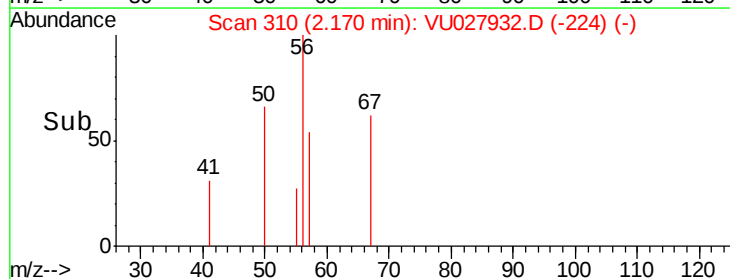
56 100

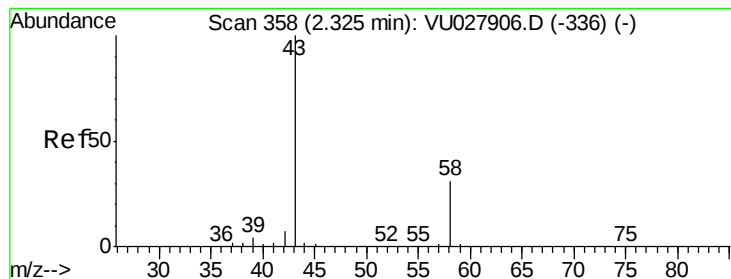
55 303.3 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-306) (-)

Ion 55.00 (54.70 to 55.70): VU027932.D (-224) (-)





#16

Acetone

Concen: 13.512 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

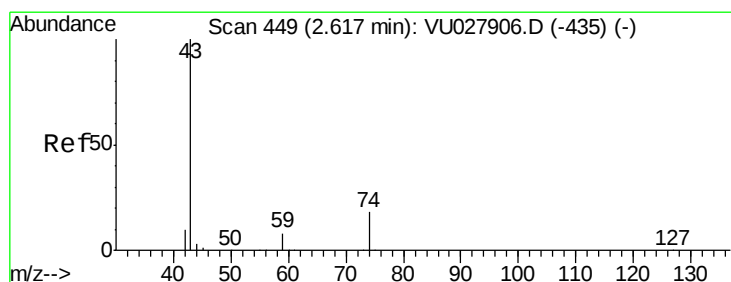
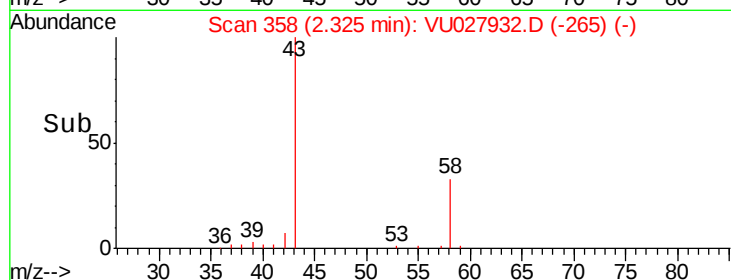
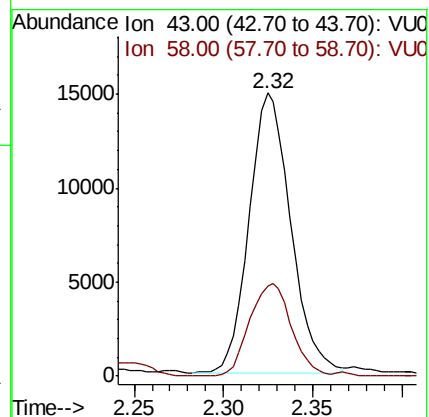
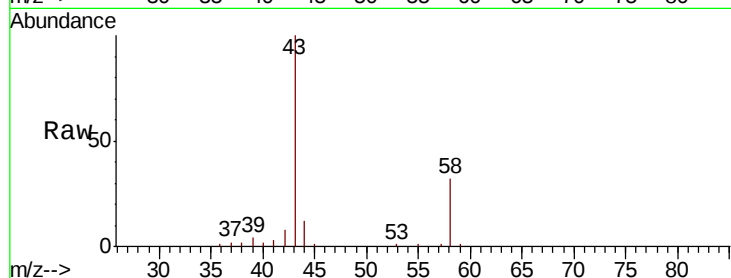
Instrument :
MSVOA_U
ClientSampled :
TP-3

Tot Ion: 43 Resp: 24218

Ion Ratio Lower Upper

43 100

58 32.3 24.6 37.0



#18

Methyl Acetate

Concen: 0.902 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU027932.D

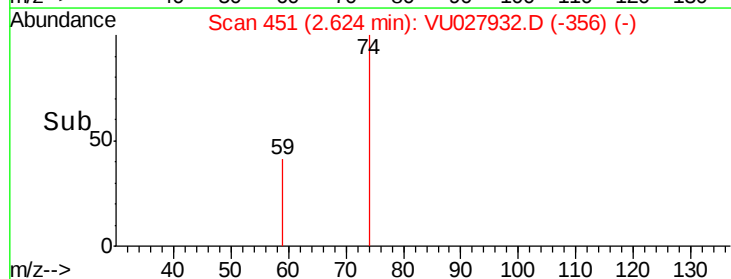
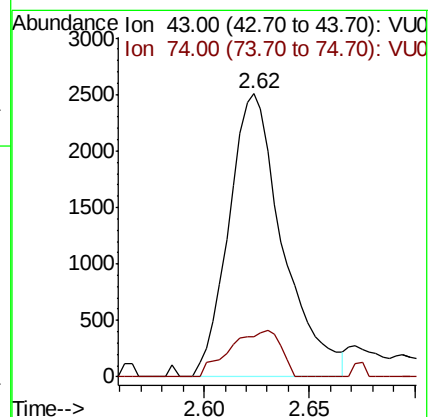
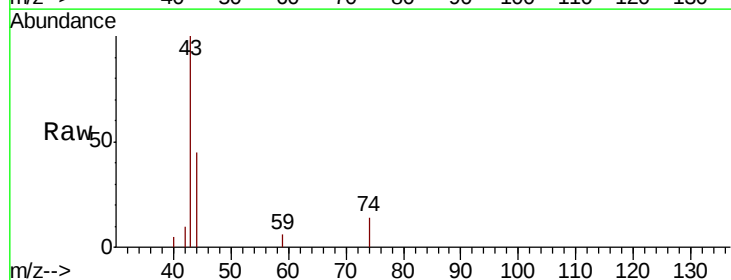
Acq: 02 Nov 2018 17:35

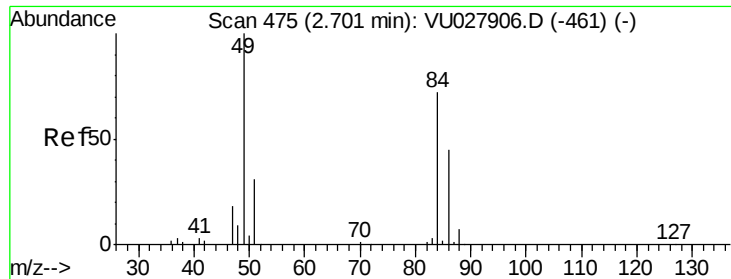
Tgt Ion: 43 Resp: 4446

Ion Ratio Lower Upper

43 100

74 15.6 14.9 22.3

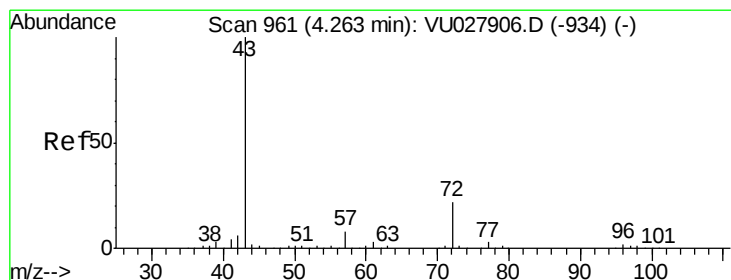
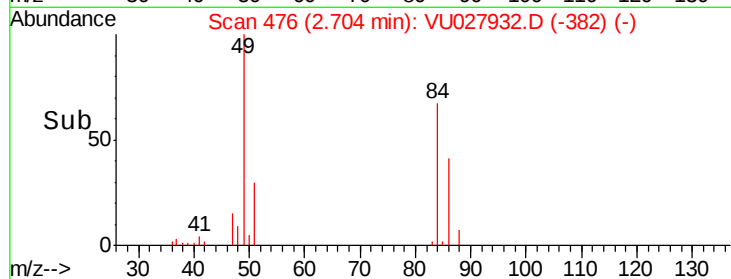
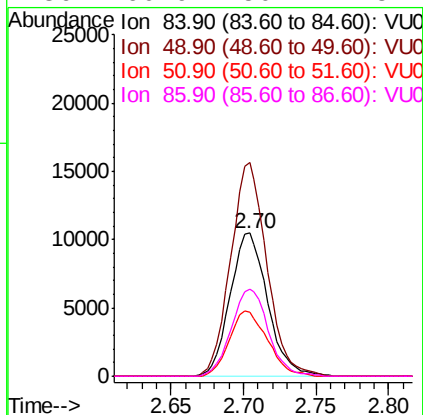
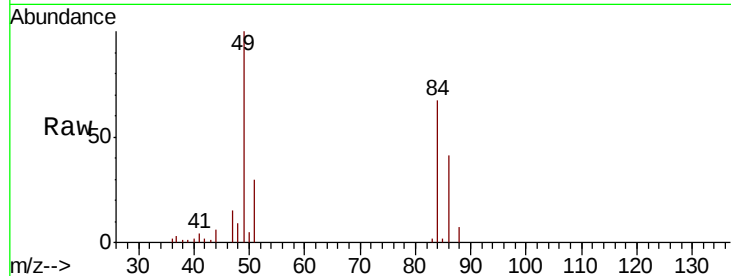




#20
Methvlene Chloride
Concen: 7.194 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

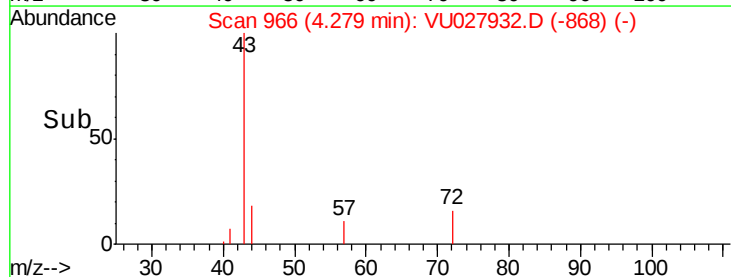
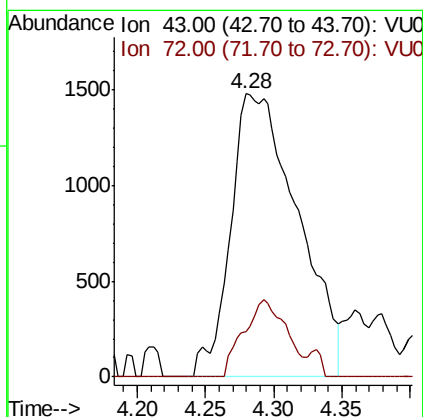
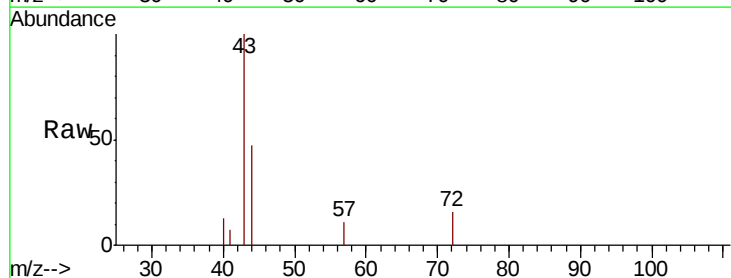
Instrument :
MSVOA_U
ClientSampleId :
TP-3

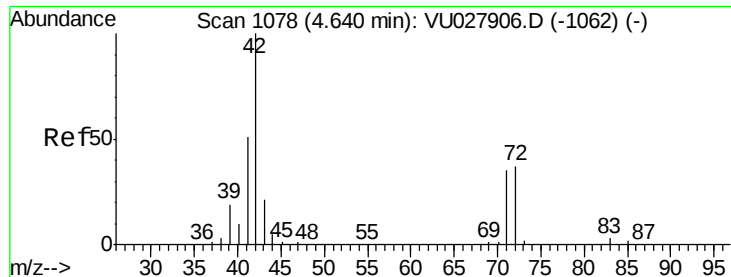
Tot Ion:	84	Resp:	18827
Ion	Ratio	Lower	Upper
84	100		
49	149.0	111.6	167.4
51	44.3	34.8	52.2
86	60.9	50.1	75.1



#25
2-Butanone
Concen: 1.776 ug/l
RT: 4.28 min Scan# 966
Delta R.T. 0.02 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

Tgt Ion:	43	Resp:	5064
Ion	Ratio	Lower	Upper
43	100		
72	16.2	17.7	26.5#





#29

Tetrahydrofuran

Concen: 0.275 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

TP-3

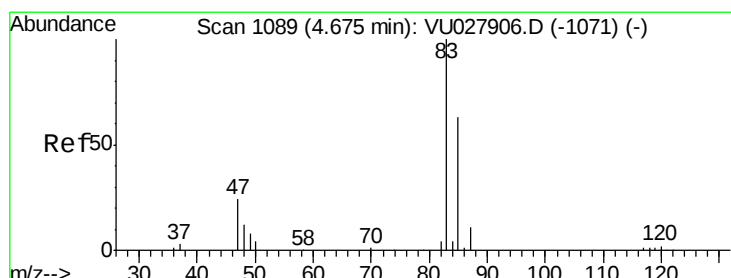
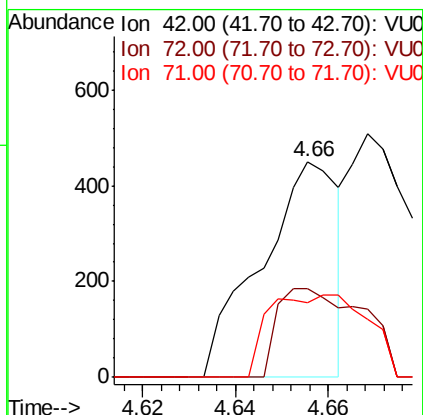
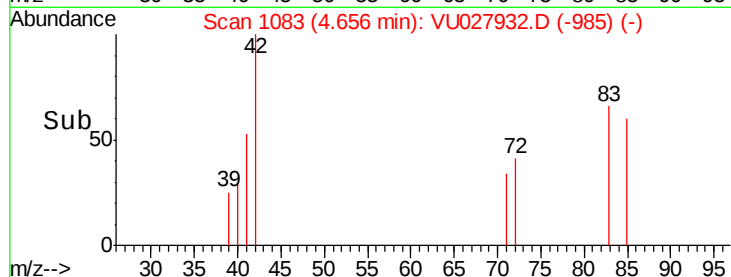
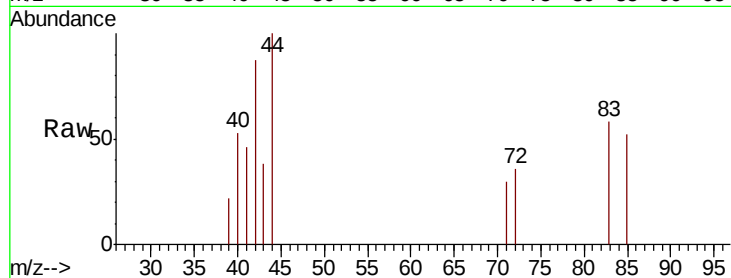
Tot Ion: 42 Resp: 523

Ion Ratio Lower Upper

42 100

72 45.5 29.4 44.0#

71 48.6 27.9 41.9#



#30

Chloroform

Concen: 0.347 ug/l

RT: 4.68 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VU027932.D

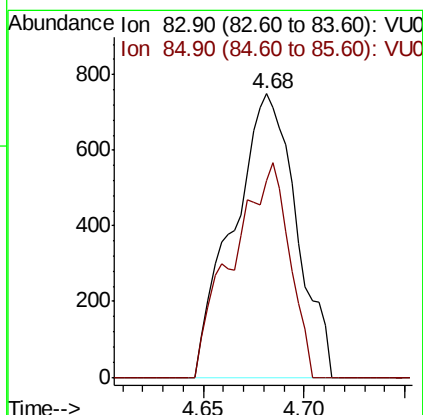
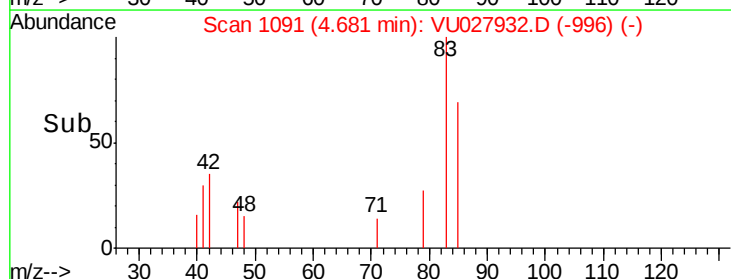
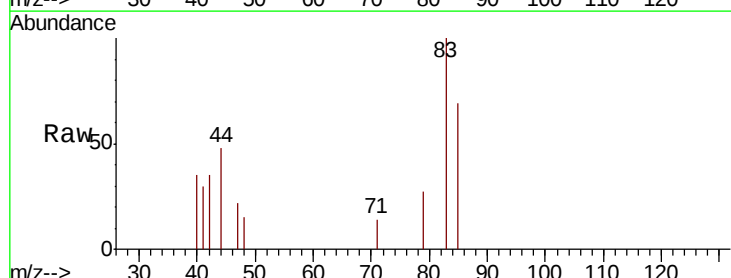
Acq: 02 Nov 2018 17:35

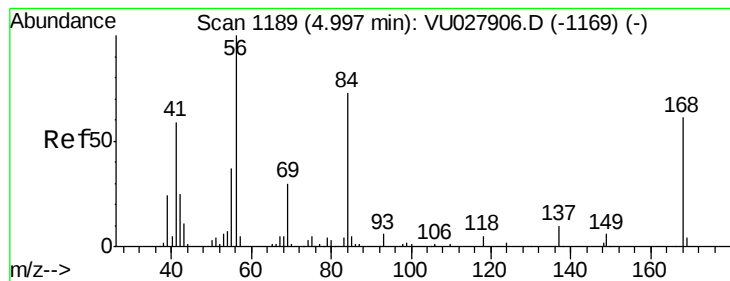
Tgt Ion: 83 Resp: 1629

Ion Ratio Lower Upper

83 100

85 69.3 50.6 76.0





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :
MSVOA_U
ClientSampled :
TP-3

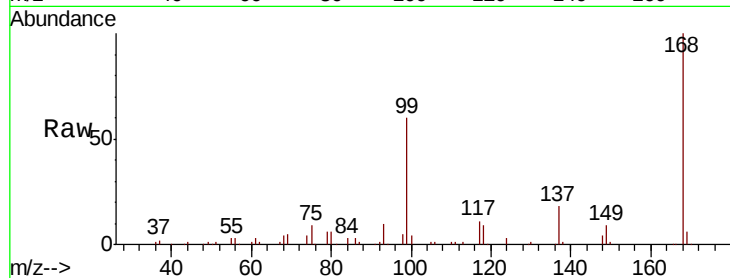
Tot Ion: 56 Resp: 2546

Ion Ratio Lower Upper

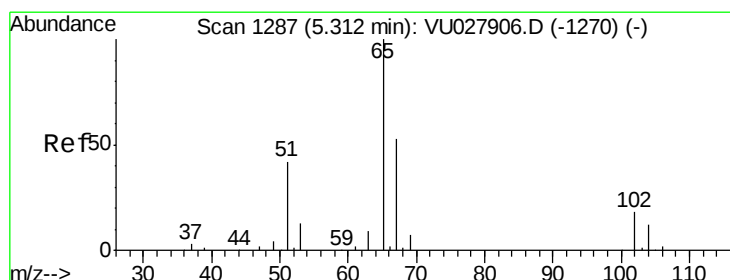
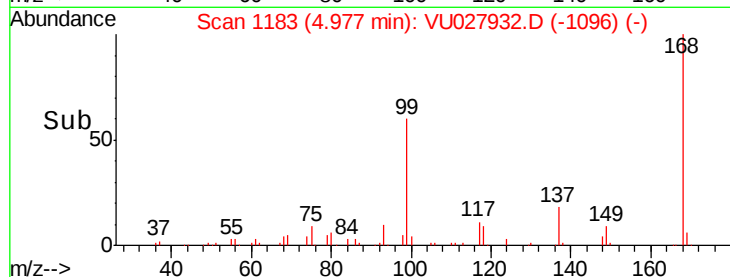
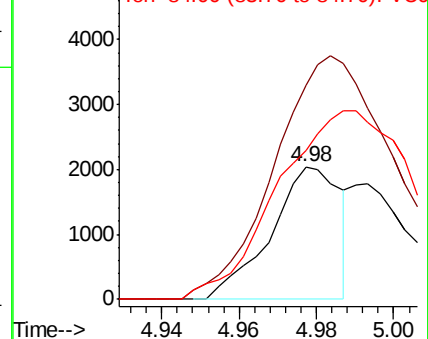
56 100

69 153.6 23.7 35.5#

84 105.3 58.2 87.4#



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



#33

1,2-Dichloroethane-d4

Concen: 51.760 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027932.D

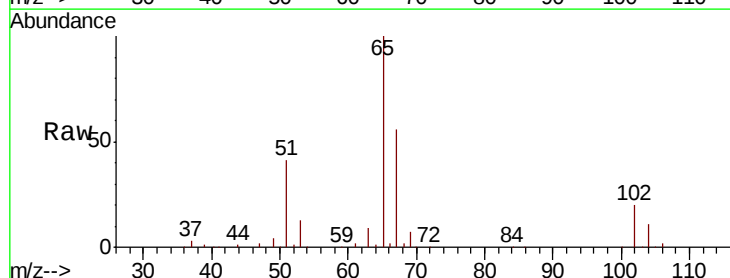
Acq: 02 Nov 2018 17:35

Tgt Ion: 65 Resp: 149529

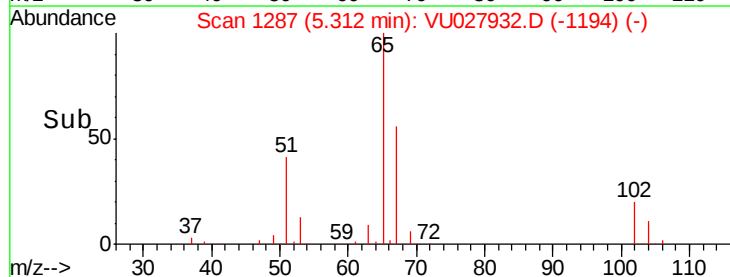
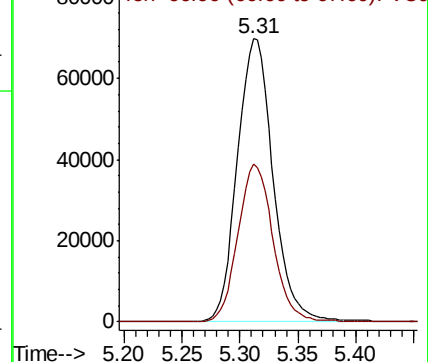
Ion Ratio Lower Upper

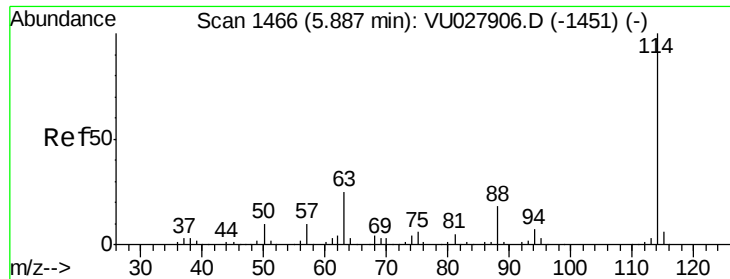
65 100

67 54.7 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

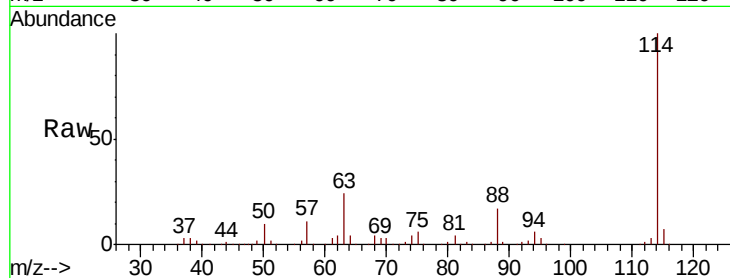




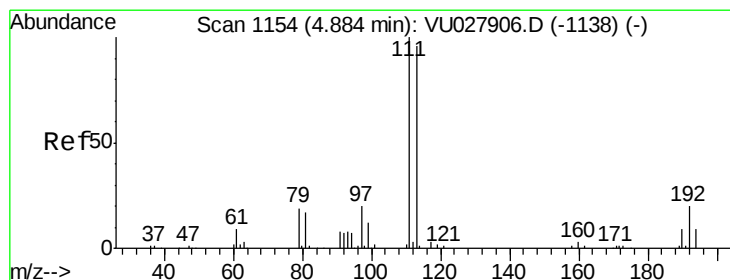
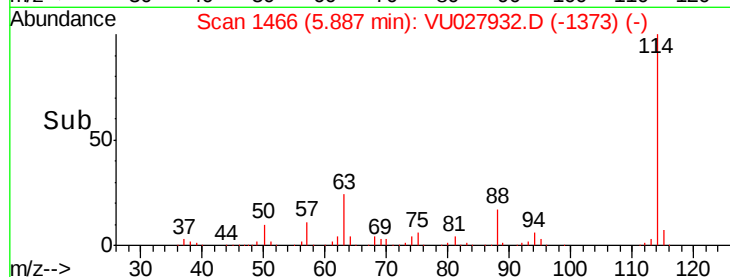
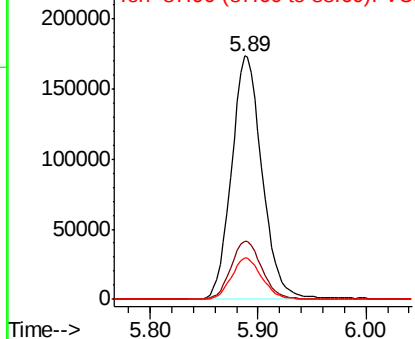
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU027932.D
 Acq: 02 Nov 2018 17:35

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-3

Tot Ion:114 Resp: 344105
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 50.8
 88 17.0 0.0 35.8

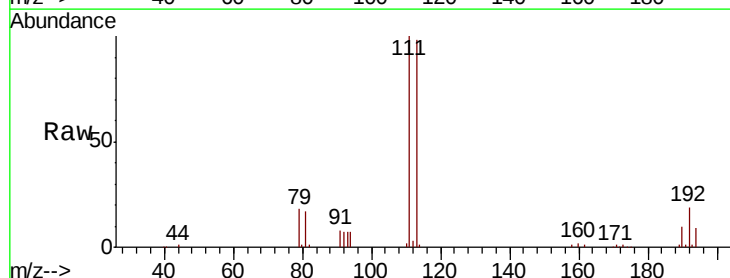


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

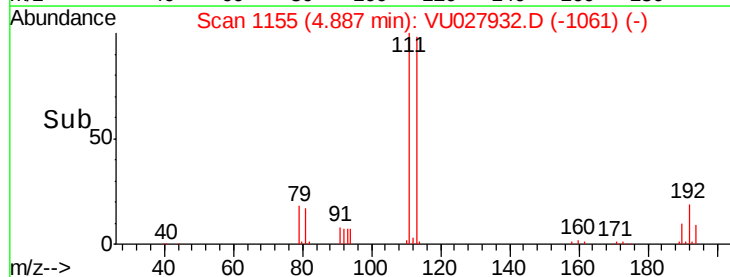
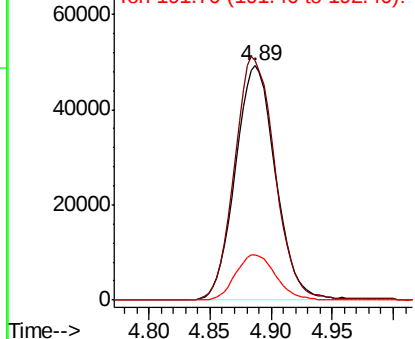


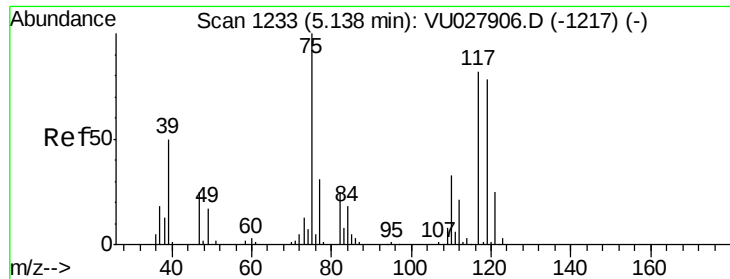
#35
 Dibromofluoromethane
 Concen: 51.781 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027932.D
 Acq: 02 Nov 2018 17:35

Tgt Ion:113 Resp: 112346
 Ion Ratio Lower Upper
 113 100
 111 104.0 83.0 124.6
 192 19.3 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: 4.728 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

TP-3

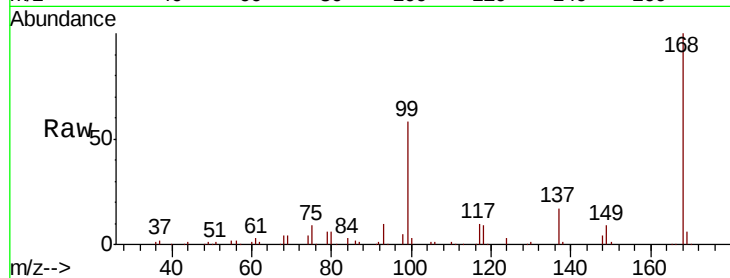
Tot Ion: 75 Resp: 17039

Ion Ratio Lower Upper

75 100

110 7.0 16.5 49.5#

77 0.0 24.9 37.3#

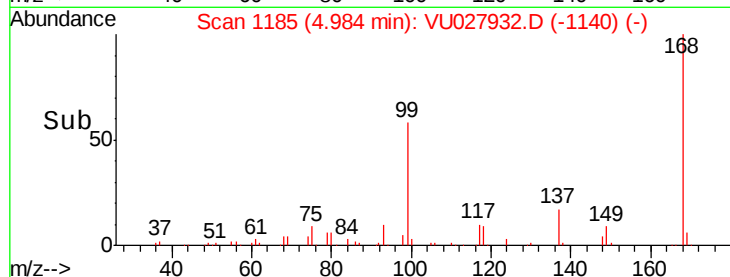


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)

Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)

Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

Time-->

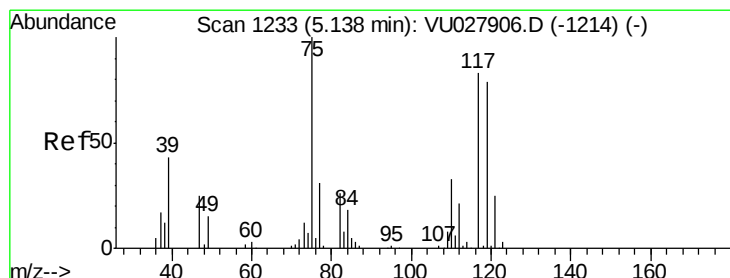


Abundance Ion 74.90 (74.60 to 75.60): VU027932.D (-1140) (-)

Ion 109.90 (109.60 to 110.60): VU027932.D (-1140) (-)

Ion 76.90 (76.60 to 77.60): VU027932.D (-1140) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.341 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

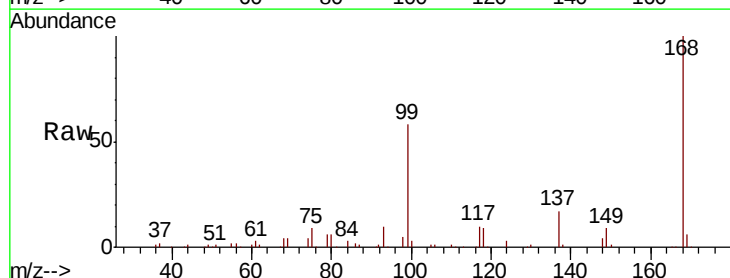
Tgt Ion: 117 Resp: 20251

Ion Ratio Lower Upper

117 100

119 3.6 76.0 114.0#

121 0.0 24.5 36.7#

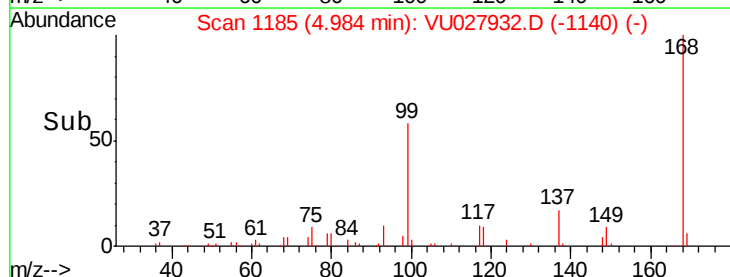


Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)

Time-->

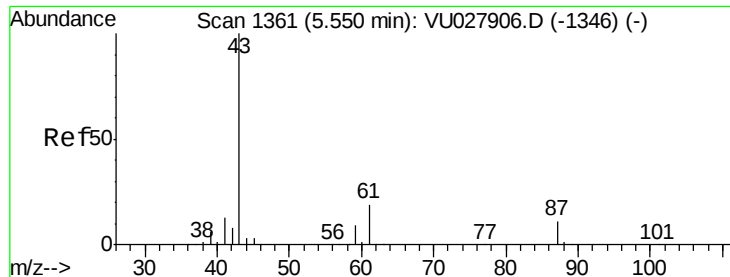


Abundance Ion 116.80 (116.50 to 117.50): VU027932.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU027932.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU027932.D (-1140) (-)

Time-->



#43

Isopropyl Acetate

Concen: 22.293 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

TP-3

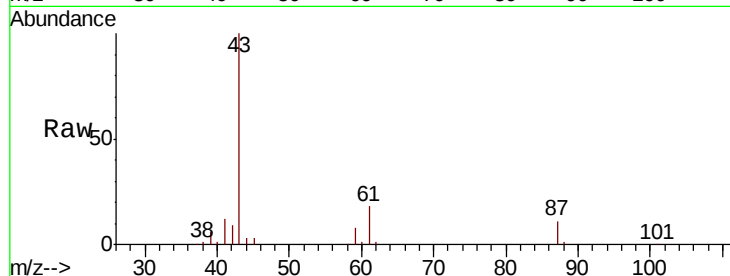
Tot Ion: 43 Resp: 184430

Ion Ratio Lower Upper

43 100

61 18.8 15.0 22.4

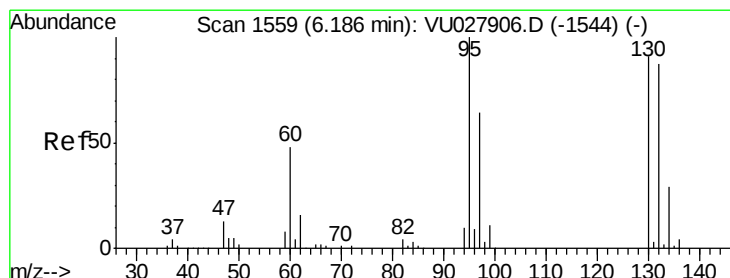
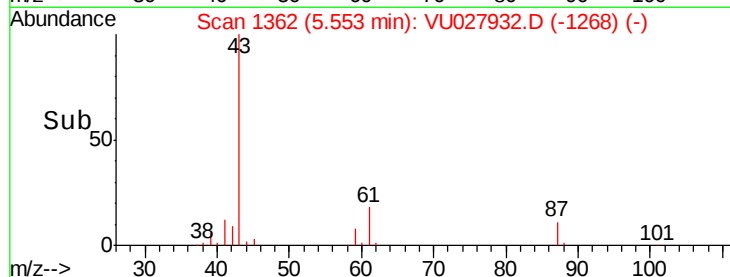
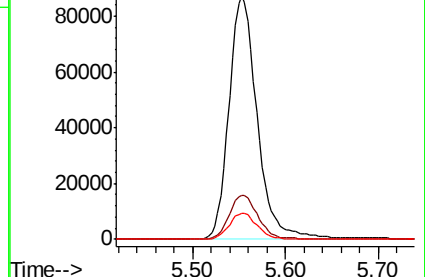
87 10.7 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1346) (-)

Ion 61.00 (60.70 to 61.70): VU027906.D (-1346) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-1346) (-)



#44

Trichloroethene

Concen: 0.450 ug/l

RT: 6.19 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VU027932.D

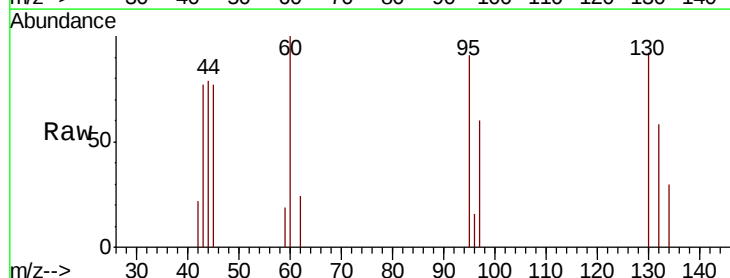
Acq: 02 Nov 2018 17:35

Tgt Ion:130 Resp: 1066

Ion Ratio Lower Upper

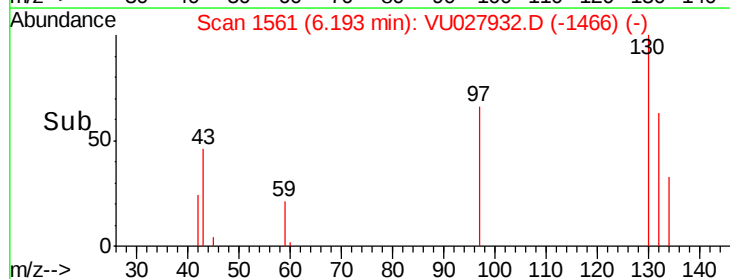
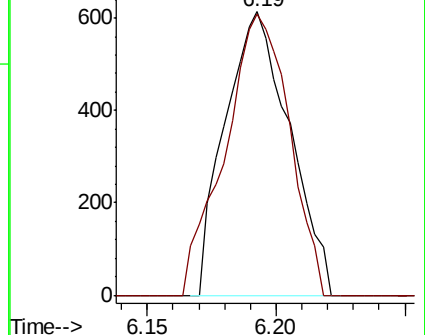
130 100

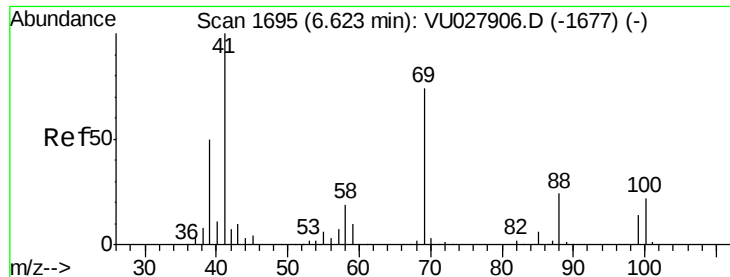
95 99.2 0.0 219.2



Abundance Ion 129.80 (129.50 to 130.50): VU027906.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU027906.D (-1544) (-)

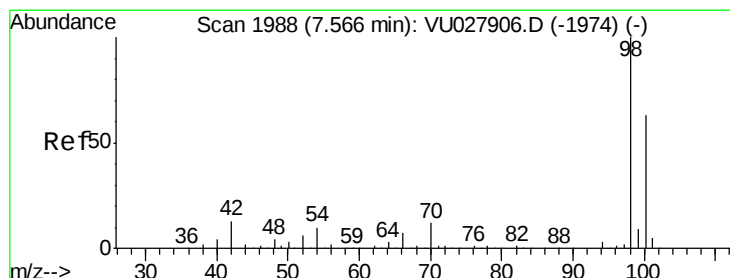
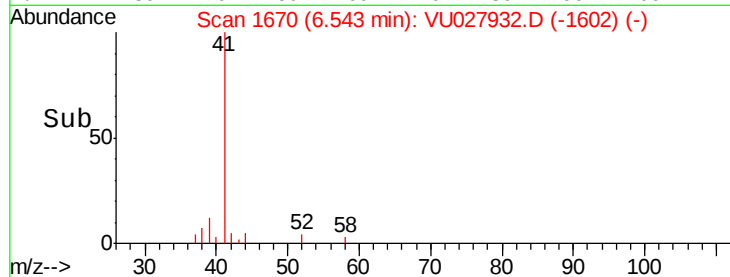
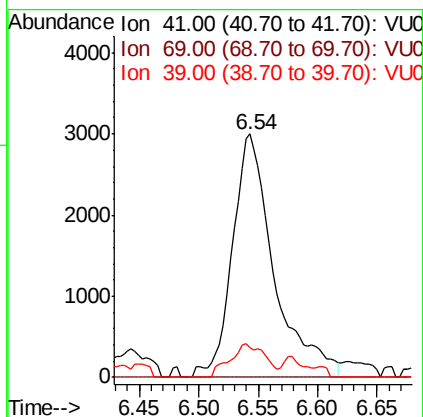
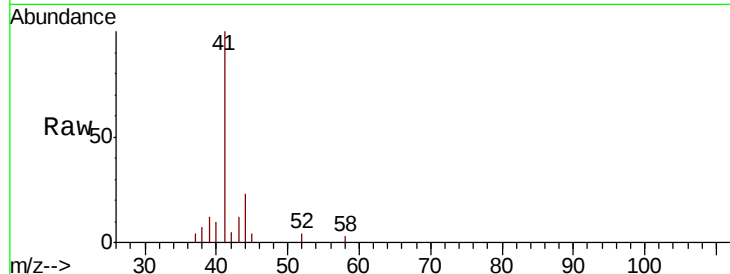




#48
Methvl methacrylate
Concen: 1.793 ug/l
RT: 6.54 min Scan# 1670
Delta R.T. -0.08 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

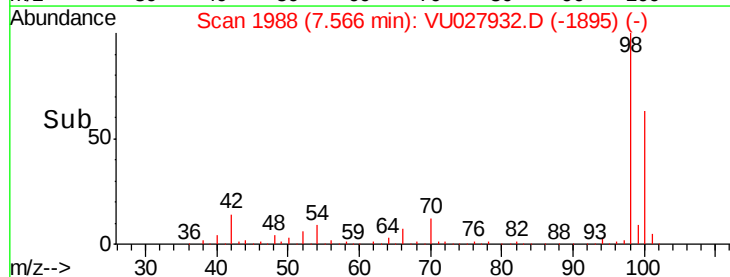
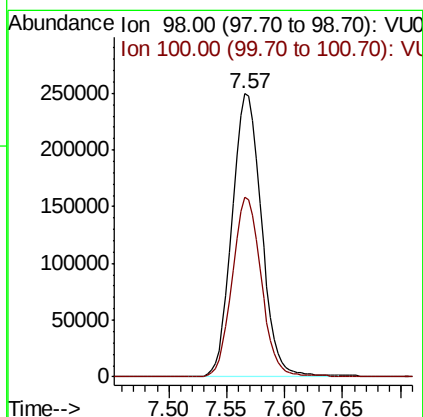
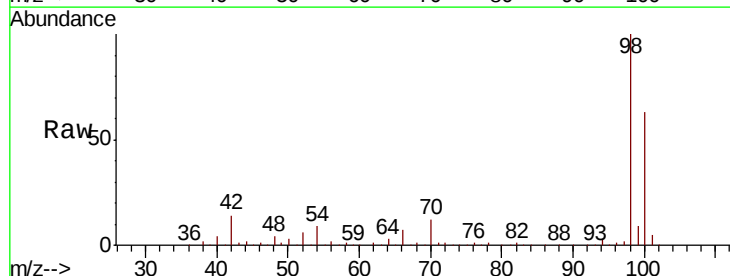
Instrument :
MSVOA_U
ClientSampleId :
TP-3

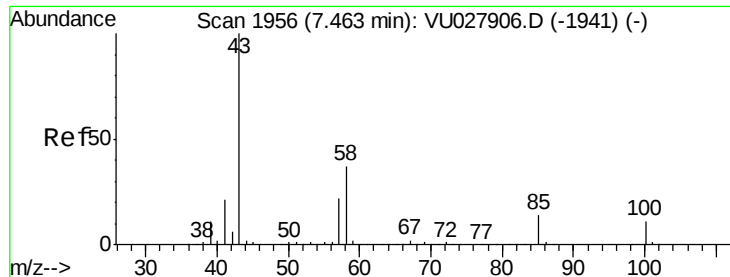
Tot Ion: 41 Resp: 7269
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 11.6 40.0 60.0#



#50
Toluene-d8
Concen: 52.387 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

Tgt Ion: 98 Resp: 439062
Ion Ratio Lower Upper
98 100
100 62.5 50.1 75.1





#51

4-Methyl-2-Pentanone

Concen: 0.276 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampled :

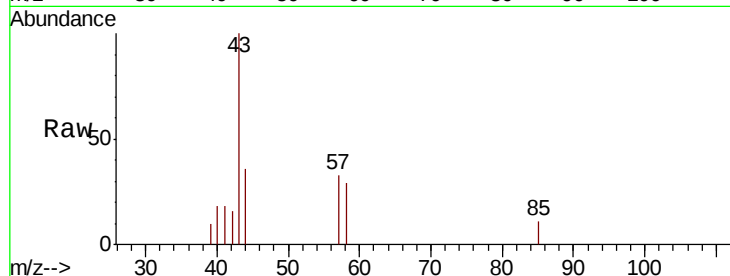
TP-3

Tot Ion: 43 Resp: 1523

Ion Ratio Lower Upper

43 100

58 40.2 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1500

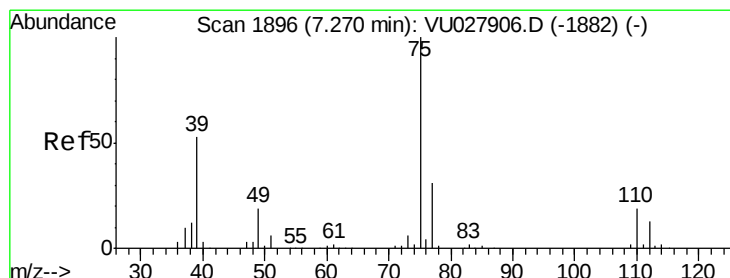
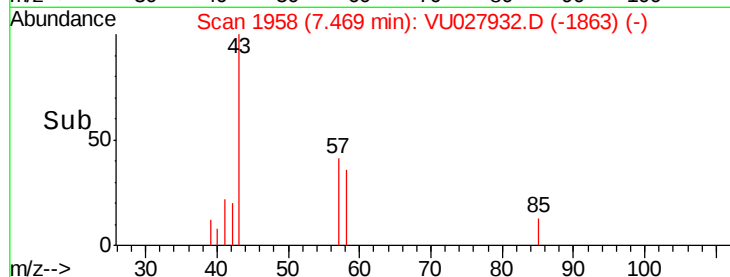
1000

500

0

7.44 7.46 7.48 7.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.257 ug/l

RT: 7.42 min Scan# 1944

Delta R.T. 0.15 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

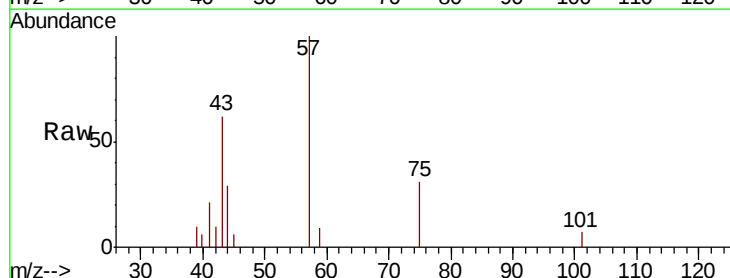
Tgt Ion: 75 Resp: 1116

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 31.0 42.6 64.0#



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

800

600

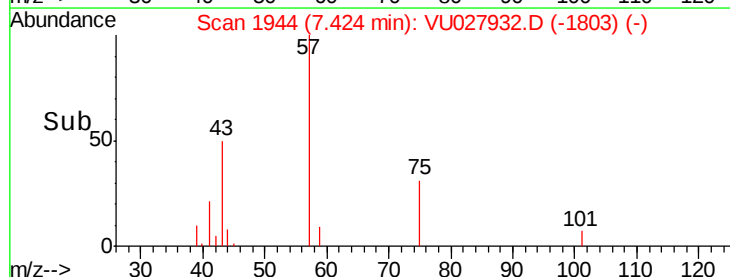
400

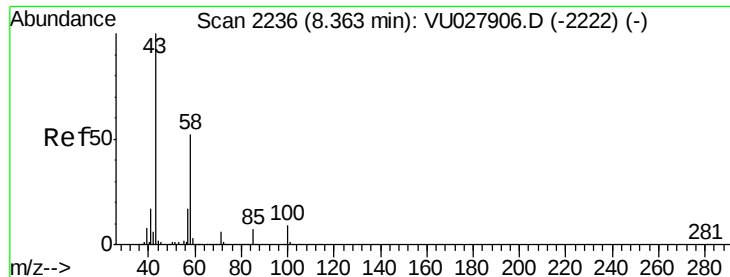
200

0

7.40 7.45

Time-->

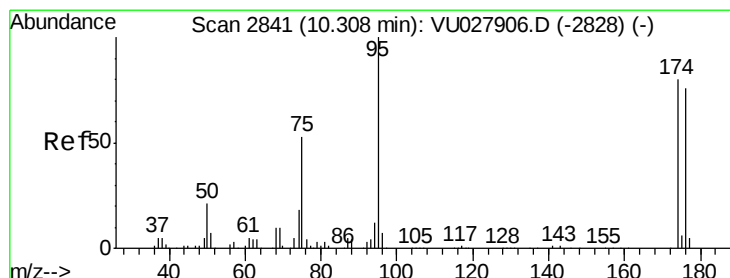
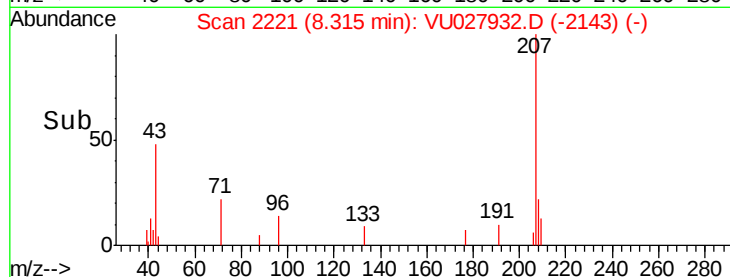
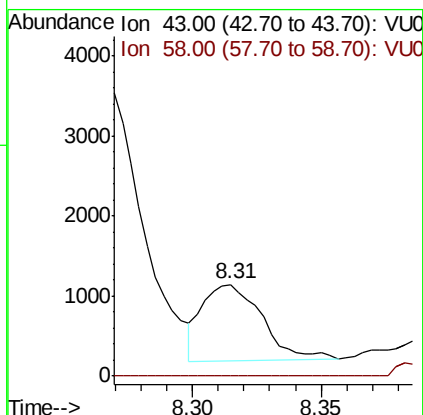
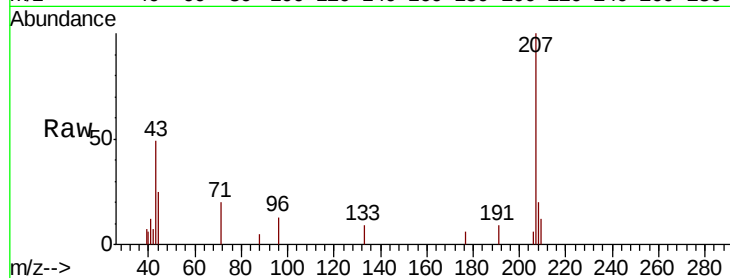




#59
2-Hexanone
Concen: 0.353 ug/l
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

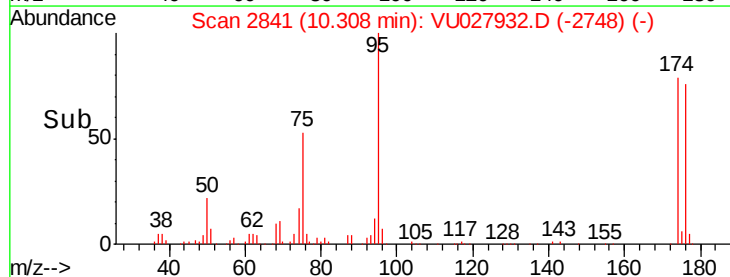
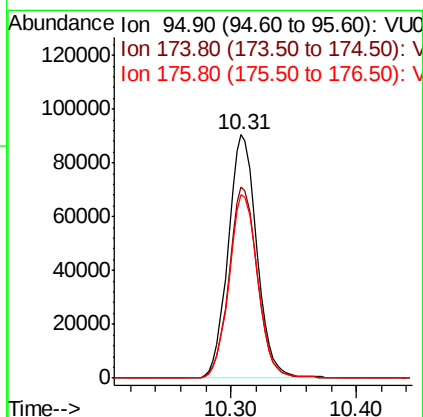
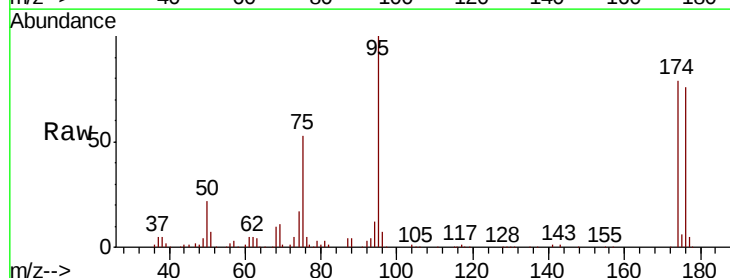
Instrument :
MSVOA_U
ClientSampled :
TP-3

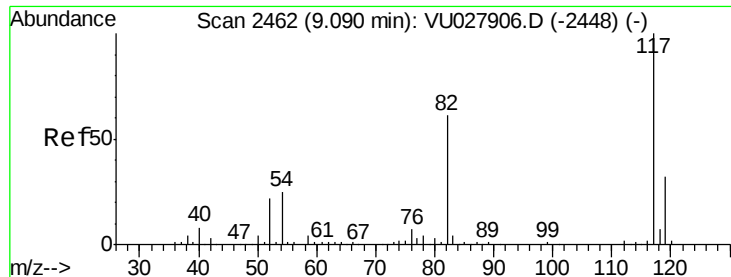
Tot Ion: 43 Resp: 1510
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 46.452 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

Tgt Ion: 95 Resp: 143597
Ion Ratio Lower Upper
95 100
174 77.4 0.0 156.4
176 75.7 0.0 150.8

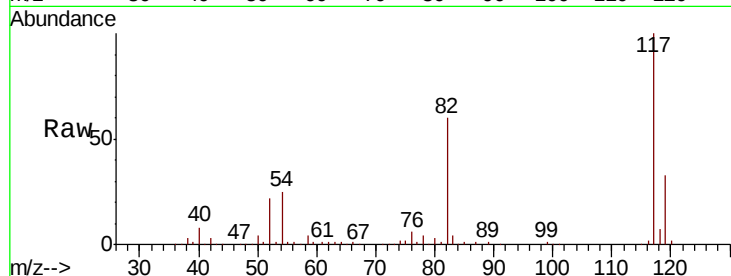




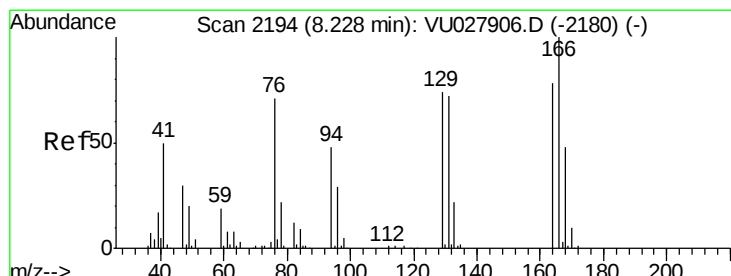
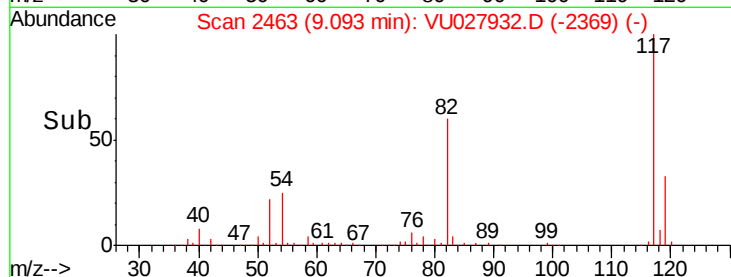
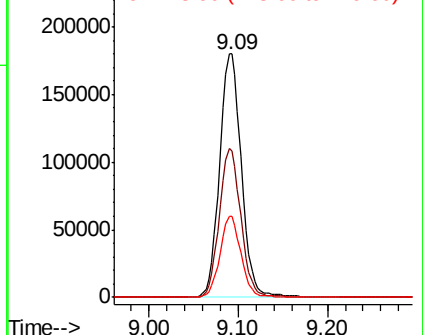
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

Instrument :
MSVOA_U
ClientSampleId :
TP-3

Tot Ion:117 Resp: 304957
Ion Ratio Lower Upper
117 100
82 60.3 48.6 73.0
119 33.0 25.8 38.8

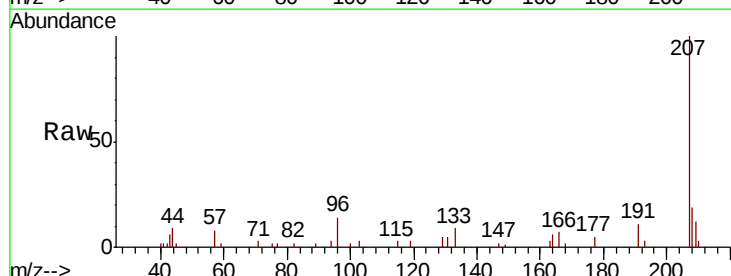


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU027906.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): V

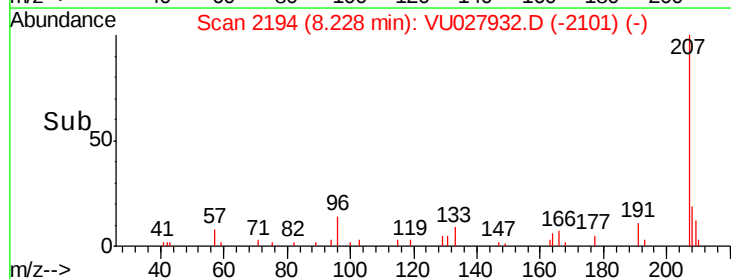
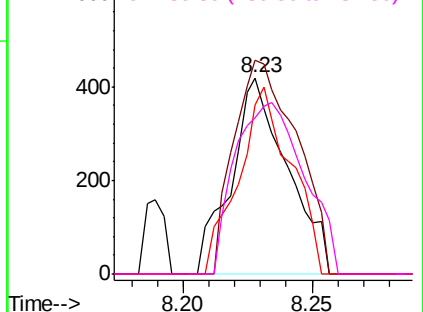


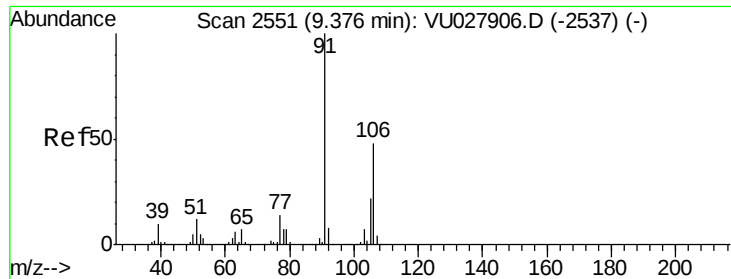
#64
Tetrachloroethene
Concen: 0.322 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027932.D
Acq: 02 Nov 2018 17:35

Tgt Ion:164 Resp: 637
Ion Ratio Lower Upper
164 100
166 108.8 102.1 153.1
129 85.7 75.9 113.9
131 79.3 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





#68

m/p-Xvlenes

Concen: 0.242 ug/l

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampled :

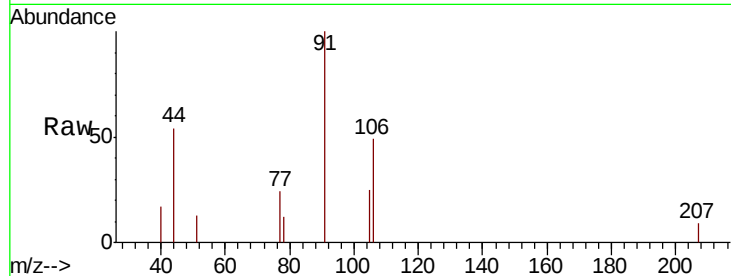
TP-3

Tot Ion:106 Resp: 1043

Ion Ratio Lower Upper

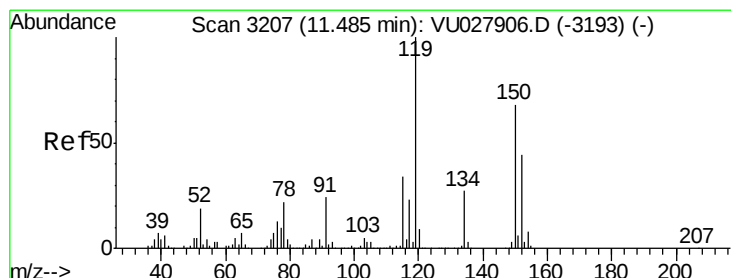
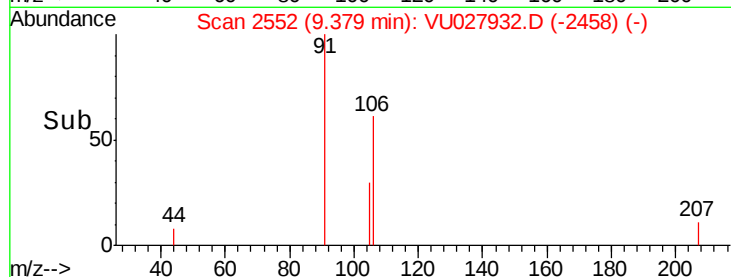
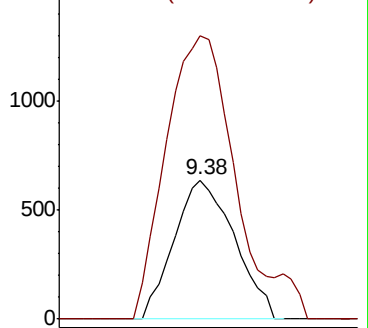
106 100

91 236.2 168.2 252.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

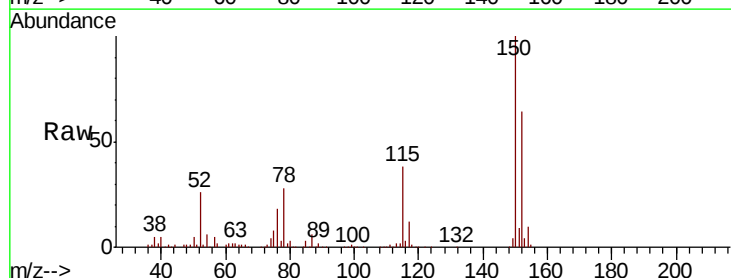
Tgt Ion:152 Resp: 126146

Ion Ratio Lower Upper

152 100

115 59.9 43.0 129.0

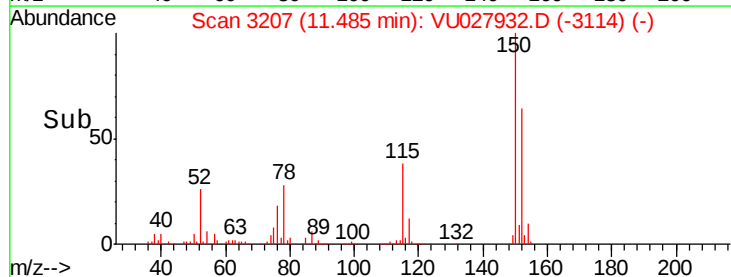
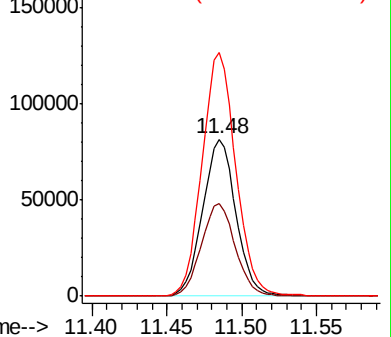
150 157.9 0.0 349.4

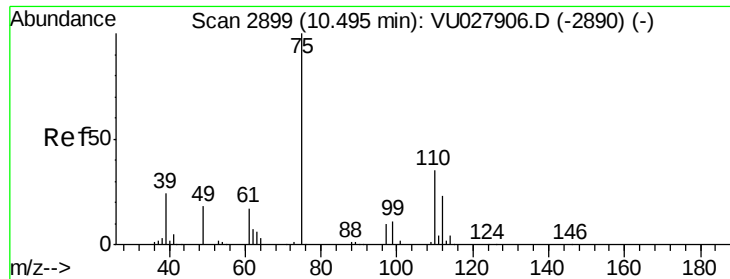


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.835 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampled :

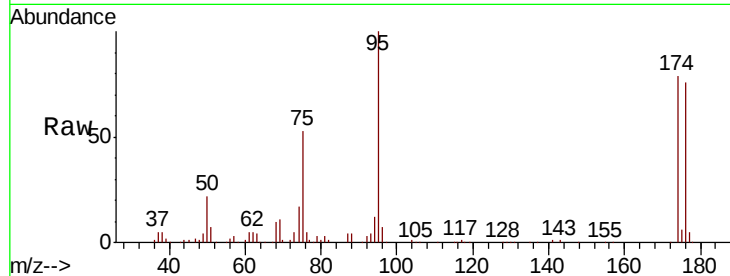
TP-3

Tot Ion: 75 Resp: 75341

Ion Ratio Lower Upper

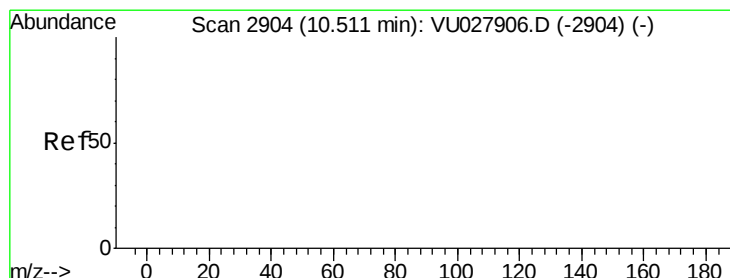
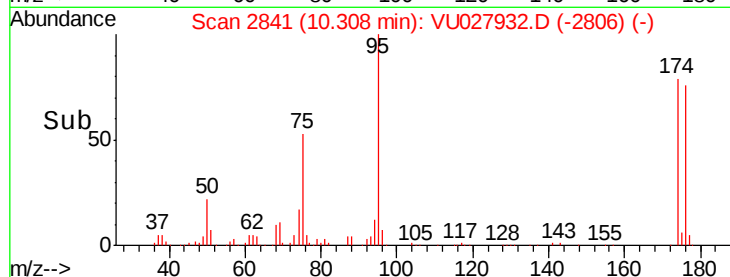
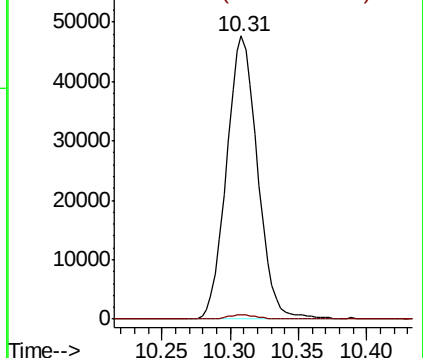
75 100

77 1.5 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: 54.494 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

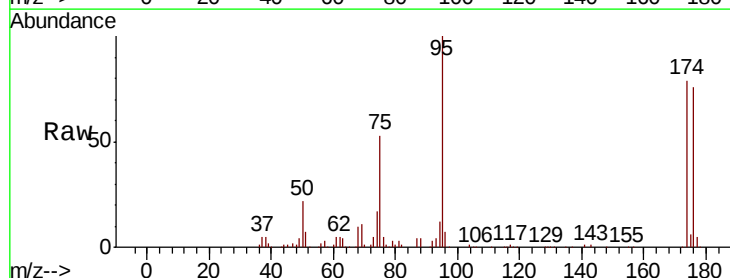
Tgt Ion: 75 Resp: 75341

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

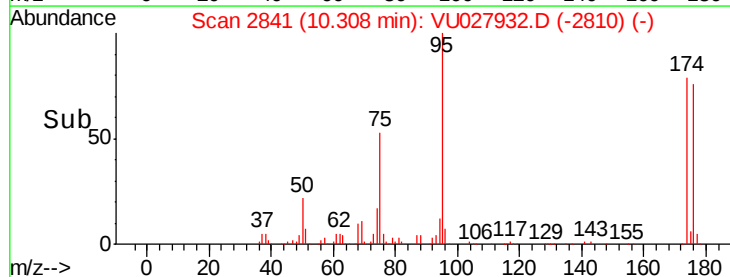
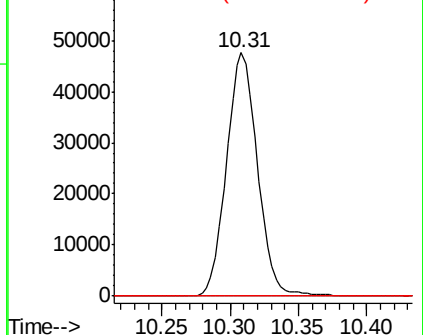
89 0.0 0.0 0.0

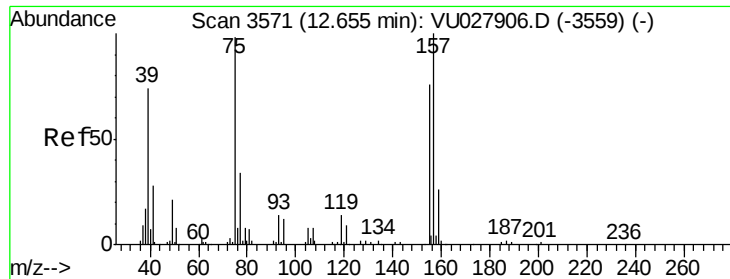


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.370 ug/l

RT: 12.48 min Scan# 3518

Delta R.T. -0.17 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

TP-3

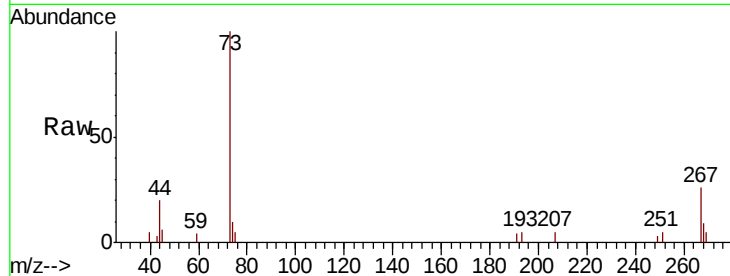
Tot Ion: 75 Resp: 307

Ion Ratio Lower Upper

75 100

155 0.0 39.8 119.3#

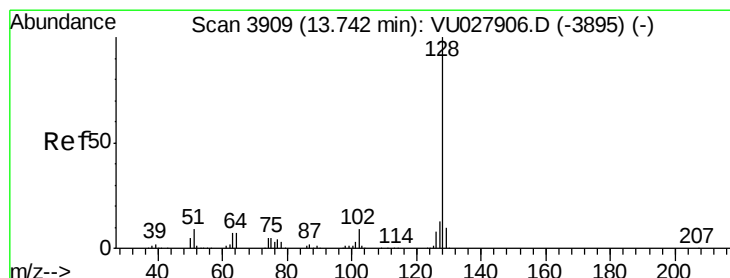
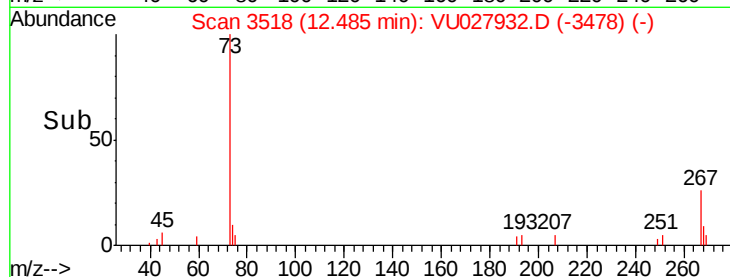
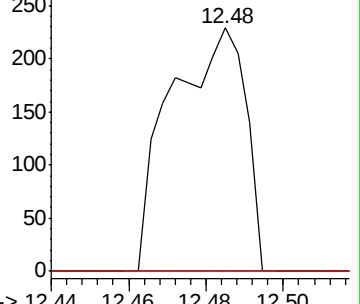
157 0.0 50.6 151.9#



Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-3559) (-)

Ion 154.80 (154.50 to 155.50): VU027906.D (-3559) (-)

Ion 156.80 (156.50 to 157.50): VU027906.D (-3559) (-)



#95

Naphthalene

Concen: 5.786 ug/l

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU027932.D

Acq: 02 Nov 2018 17:35

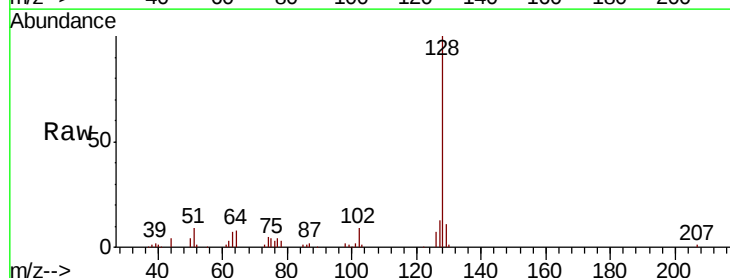
Tgt Ion: 128 Resp: 61535

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 10.2 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): VU027906.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU027906.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU027906.D (-3895) (-)

