

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040620\
 Data File : VU037593.D
 Acq On : 06 Apr 2020 16:16
 Operator : JC/MD
 Sample : L2158-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0F03

Quant Time: Apr 07 00:50:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 07 00:48:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	196146	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	183588	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	86570	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	49784	31.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	62.50%
7) Chloroethane-d5	1.93	69	43051	33.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	67.28%#
11) 1,1-Dichloroethene-d2	2.59	63	73842	27.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	55.16%#
21) 2-Butanone-d5	4.66	46	96724	80.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.79%
24) Chloroform-d	5.11	84	94920	35.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	70.74%
26) 1,2-Dichloroethane-d4	5.74	65	63511	35.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	71.28%
32) Benzene-d6	5.76	84	191749	36.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.10%
36) 1,2-Dichloropropane-d6	6.72	67	66163	36.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	73.90%
41) Toluene-d8	7.92	98	175932	35.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	70.98%#
43) trans-1,3-Dichloropropene-	8.20	79	34397	35.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.76%
47) 2-Hexanone-d5	8.65	63	77105	81.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	81.27%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	97173	37.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	75.92%
64) 1,2-Dichlorobenzene-d4	12.21	152	64374	36.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	72.88%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	2024	1.873	ug/L #	81
12) 1,1-Dichloroethene	2.60	96	8648	8.242	ug/L #	1
13) Acetone	2.66	43	2056	2.971	ug/L	79
19) 1,1-Dichloroethane	3.92	63	3462	1.564	ug/L	94
20) cis-1,2-Dichloroethene	4.71	96	28046	21.556	ug/L	95
25) Chloroform	5.12	83	5189	2.248	ug/L	98
31) Carbon tetrachloride	5.56	117	1932	1.206	ug/L	90
34) Trichloroethene	6.57	95	638503	507.626	ug/L	97
35) Methylcyclohexane	6.72	83	14286	7.351	ug/L #	19
37) 1,2-Dichloropropane	6.72	63	7529	5.493	ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	2459	1.149	ug/L #	46
42) Toluene	7.99	91	6258	1.202	ug/L	93
46) Tetrachloroethene	8.57	164	17537	20.765	ug/L	93
49) Dibromochloromethane	8.57	129	18325	13.129	ug/L #	10
59) 1,2,3-Trichloropropane	11.83	75	12789	7.258	ug/L #	86

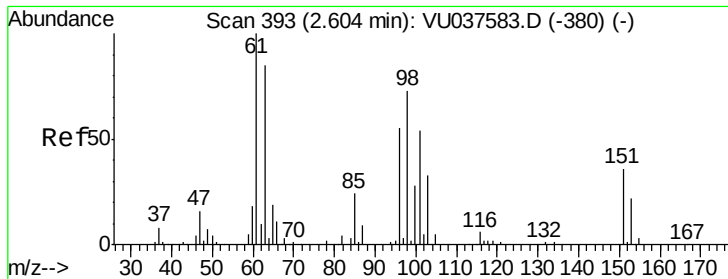
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040620\
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Quant Title : VOC Analysis
QLast Update : Tue Apr 07 00:48:05 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.873 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

Instrument :

MSVOA_U

ClientSampleId :

C0F03

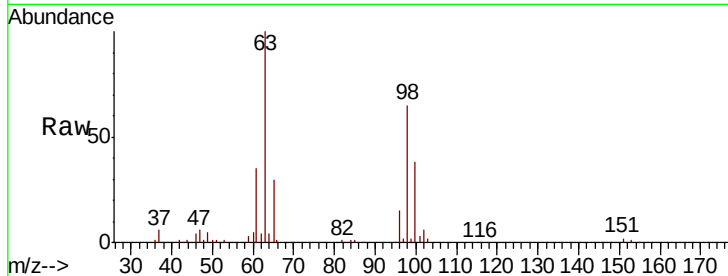
Tot Ion:101 Resp: 2024

Ion Ratio Lower Upper

101 100

85 38.8 35.4 53.2

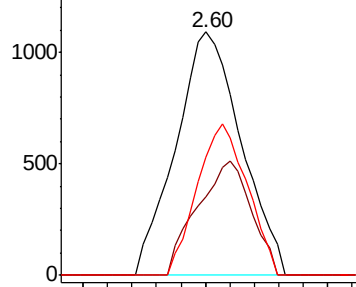
151 47.9 55.3 82.9#



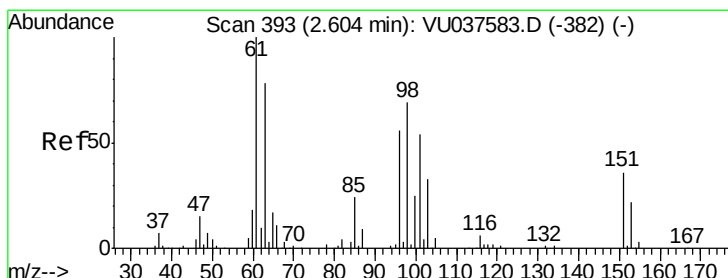
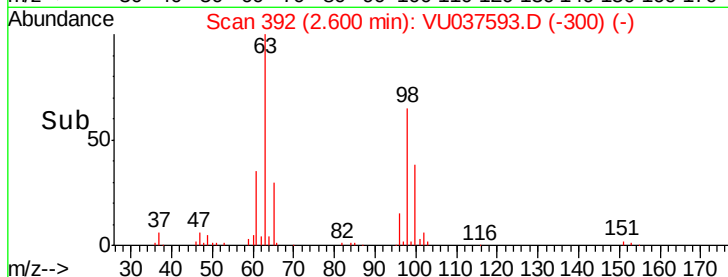
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 8.242 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

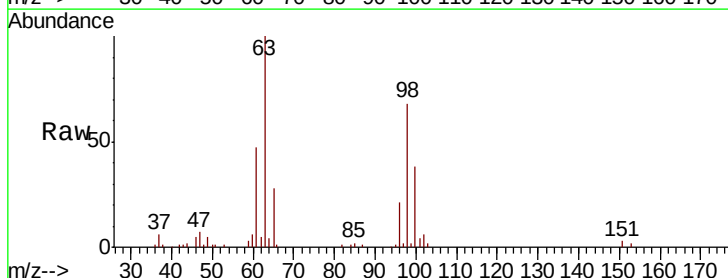
Tgt Ion: 96 Resp: 8648

Ion Ratio Lower Upper

96 100

61 220.4 117.2 217.8#

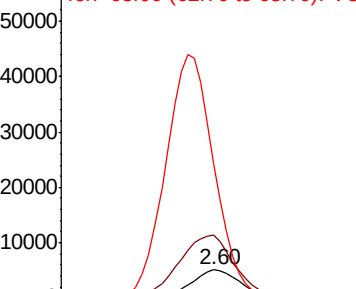
63 473.8 90.9 168.9#



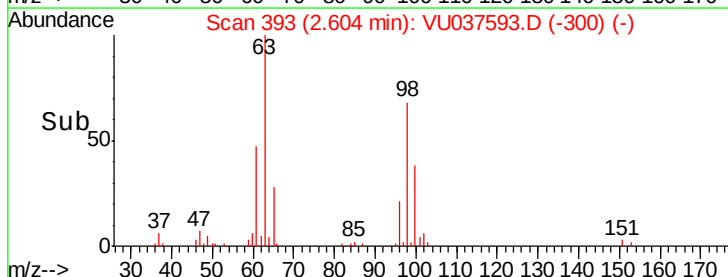
Abundance Ion 96.00 (95.70 to 96.70): VU0

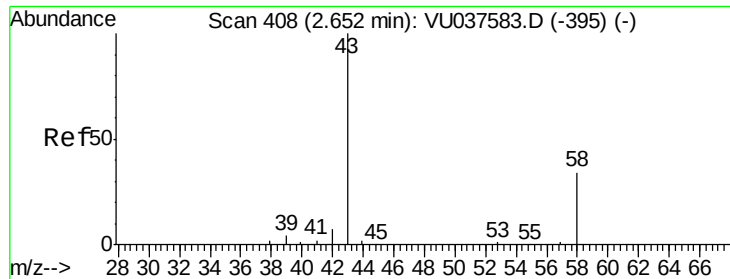
Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0



Time-->

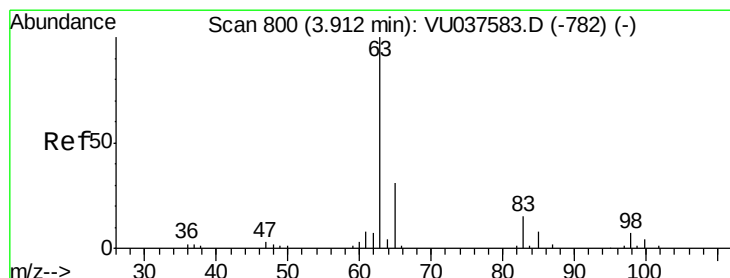
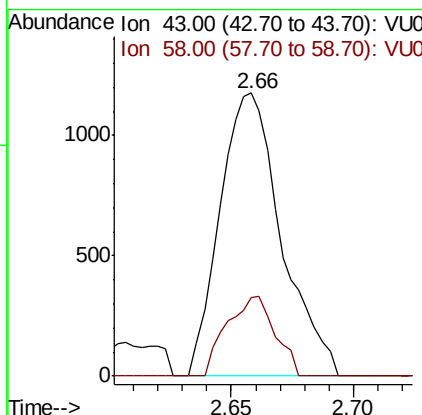
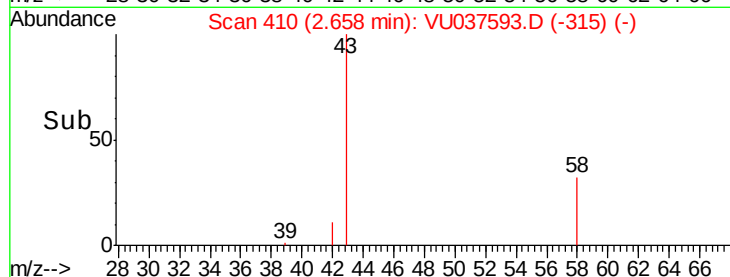
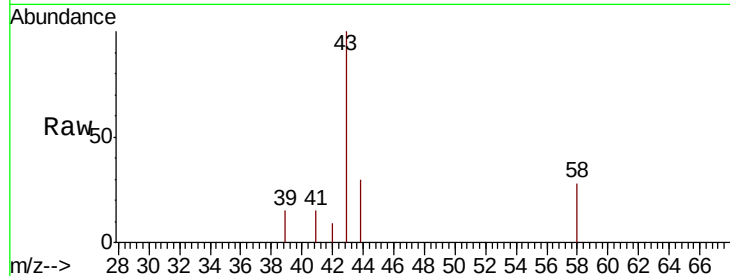




#13
Acetone
Concen: 2.971 ug/L
RT: 2.66 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU037593.D
Acq: 06 Apr 2020 16:16

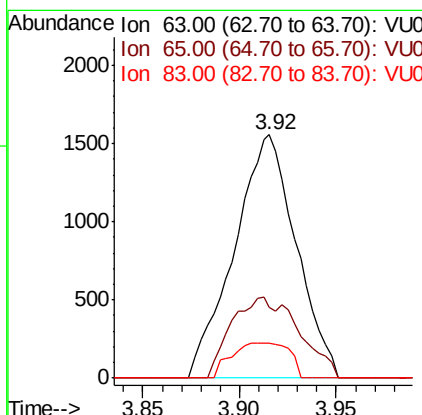
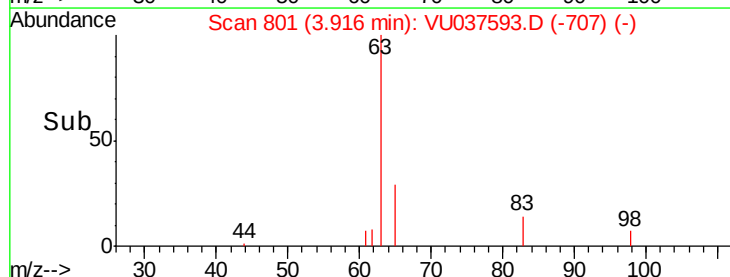
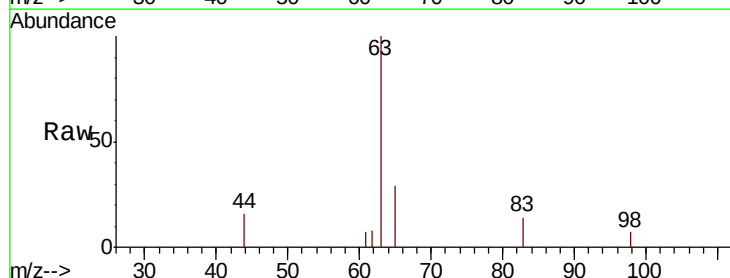
Instrument :
MSVOA_U
ClientSampleId :
C0F03

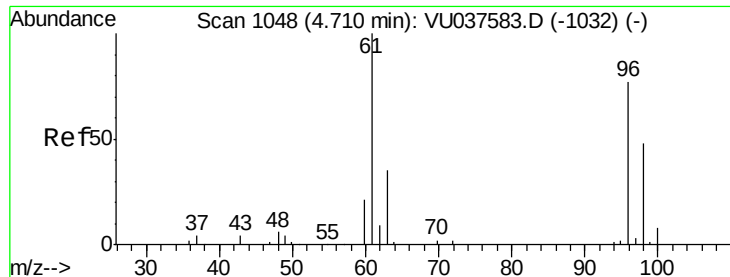
Tot Ion: 43 Resp: 2056
Ion Ratio Lower Upper
43 100
58 22.2 0.0 68.8



#19
1,1-Dichloroethane
Concen: 1.564 ug/L
RT: 3.92 min Scan# 801
Delta R.T. 0.00 min
Lab File: VU037593.D
Acq: 06 Apr 2020 16:16

Tgt Ion: 63 Resp: 3462
Ion Ratio Lower Upper
63 100
65 28.8 23.2 43.2
83 14.3 9.6 17.8

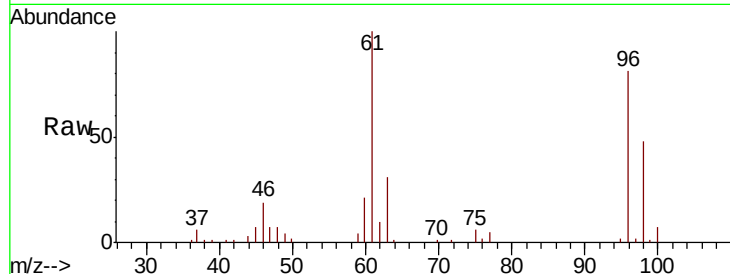




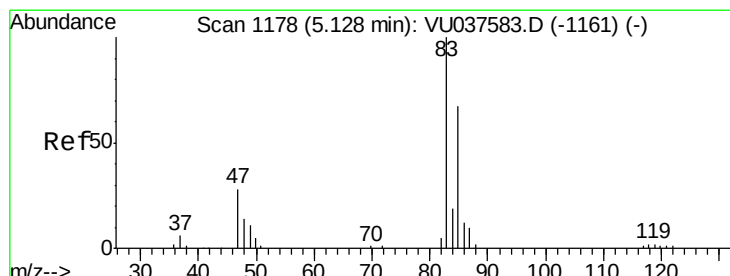
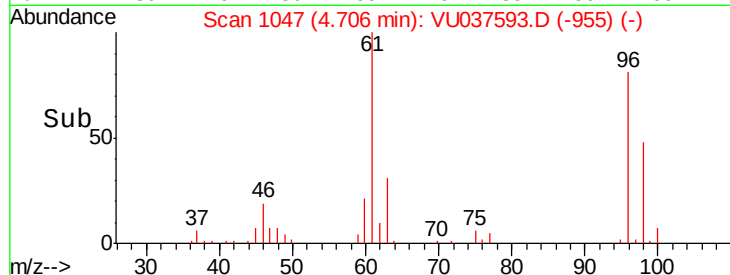
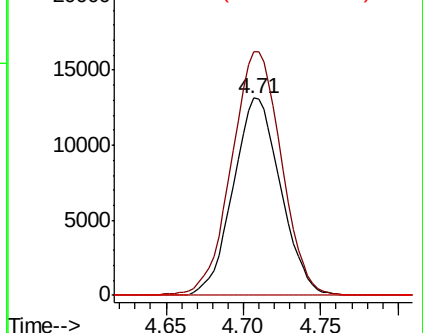
#20
 cis-1,2-Dichloroethene
 Concen: 21.556 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU037593.D
 Acq: 06 Apr 2020 16:16

Instrument :
 MSVOA_U
 ClientSampleId :
 C0F03

Tot Ion: 96 Resp: 28046
 Ion Ratio Lower Upper
 96 100
 61 123.4 90.2 167.6
 68 0.0 0.0 0.0

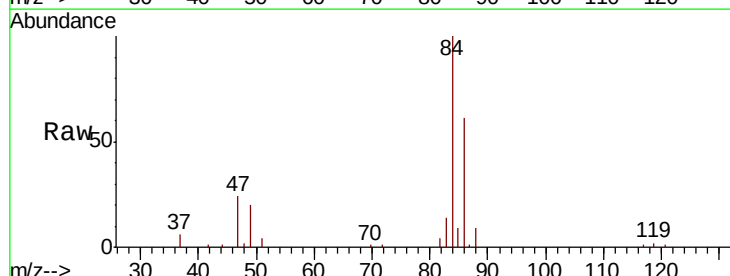


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

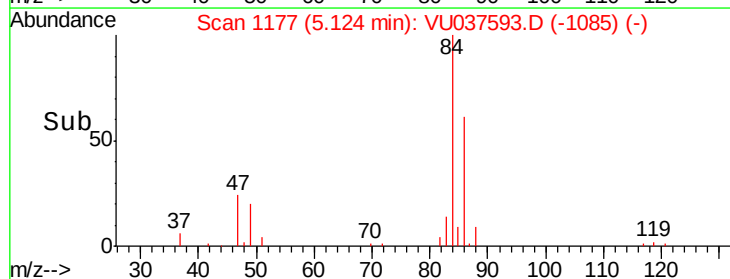
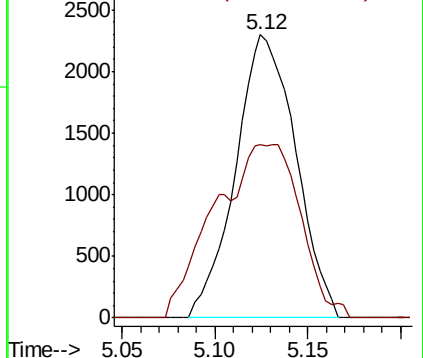


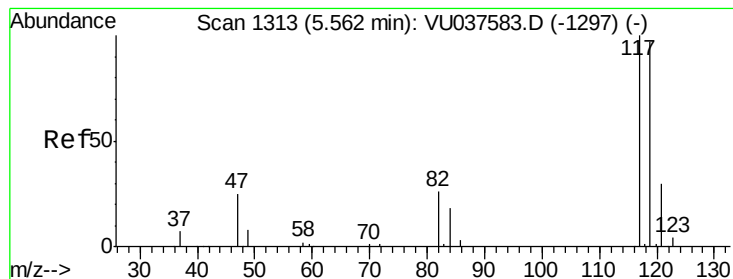
#25
 Chloroform
 Concen: 2.248 ug/L
 RT: 5.12 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: VU037593.D
 Acq: 06 Apr 2020 16:16

Tgt Ion: 83 Resp: 5189
 Ion Ratio Lower Upper
 83 100
 85 61.0 43.7 81.1



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#31

Carbon tetrachloride

Concen: 1.206 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

Instrument :

MSVOA_U

ClientSampled :

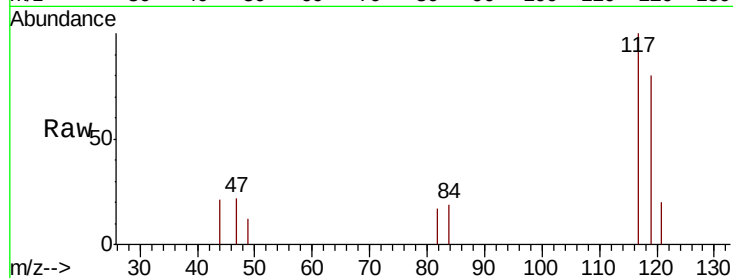
C0F03

Tot Ion:117 Resp: 1932

Ion Ratio Lower Upper

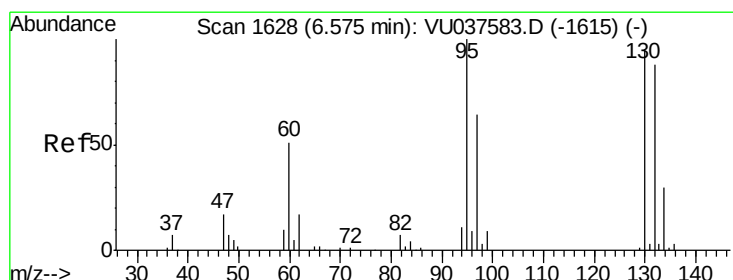
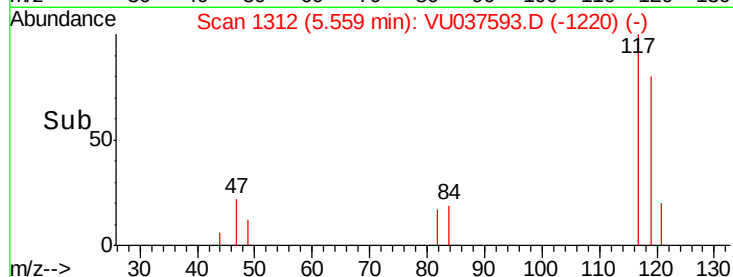
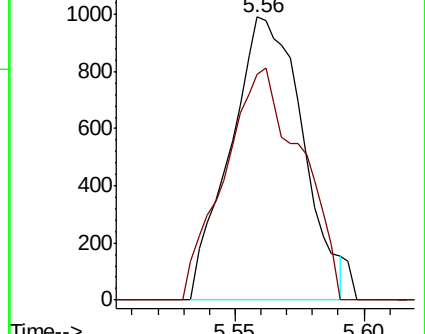
117 100

119 87.1 77.8 116.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Trichloroethene

Concen: 507.626 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

Tgt Ion: 95 Resp: 638503

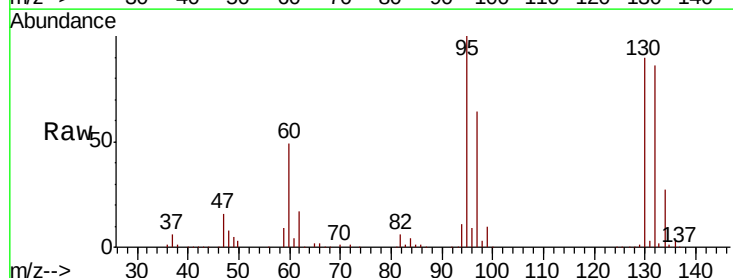
Ion Ratio Lower Upper

95 100

97 64.2 45.2 84.0

132 85.9 63.7 118.3

130 89.8 64.5 119.7

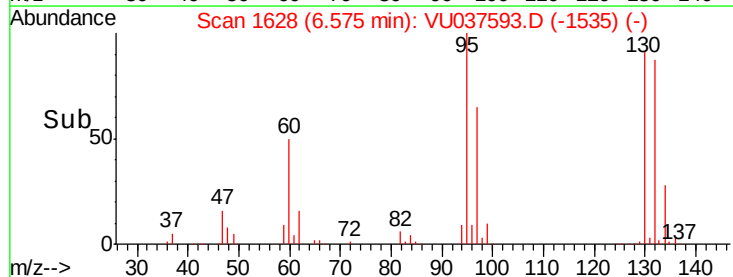
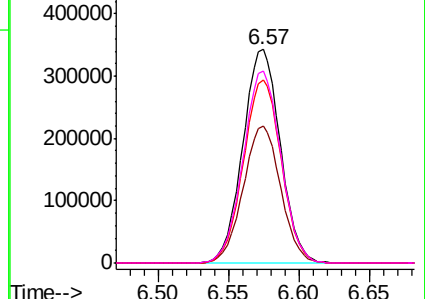


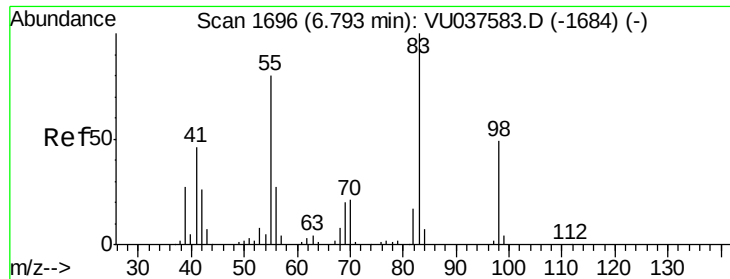
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

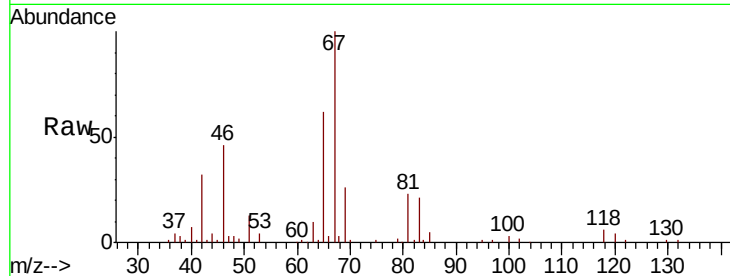




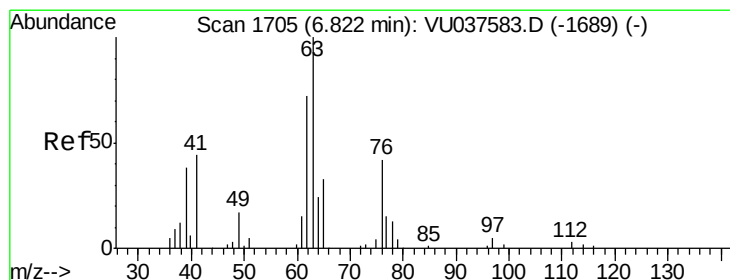
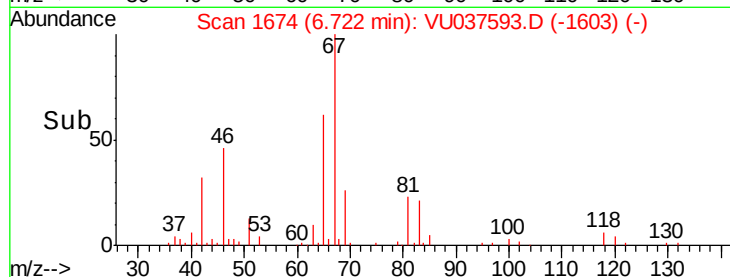
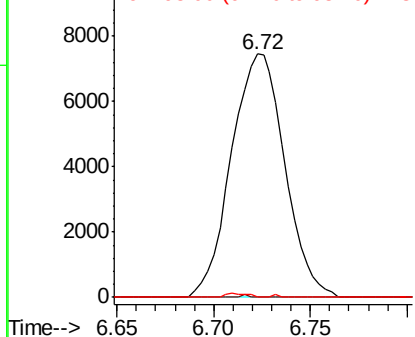
#35
Methylvlcyclohexane
Concen: 7.351 ug/L
RT: 6.72 min Scan# 1674
Delta R.T. -0.07 min
Lab File: VU037593.D
Acq: 06 Apr 2020 16:16

Instrument :
MSVOA_U
ClientSampleId :
C0F03

Tot Ion: 83 Resp: 14286
Ion Ratio Lower Upper
83 100
55 0.0 61.1 91.7#
98 0.6 35.3 52.9#

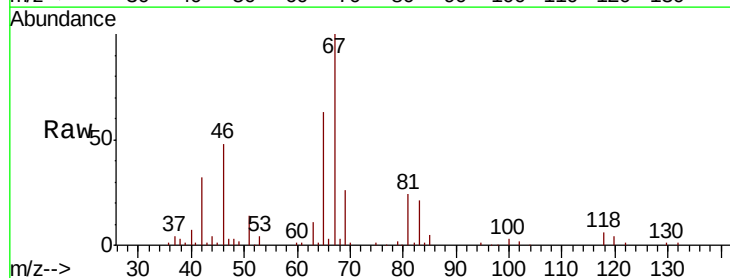


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

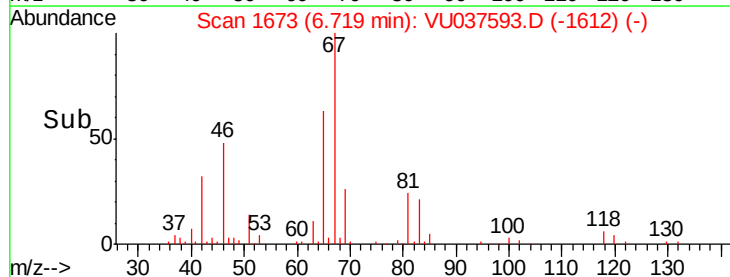
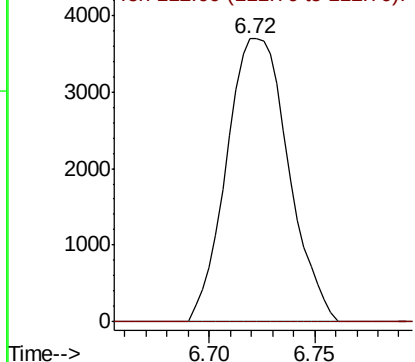


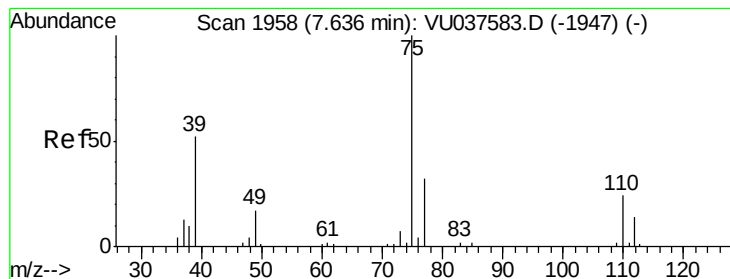
#37
1,2-Dichloropropane
Concen: 5.493 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU037593.D
Acq: 06 Apr 2020 16:16

Tgt Ion: 63 Resp: 7529
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V





#39

cis-1,3-Dichloropropene

Concen: 1.149 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.05 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

Instrument :

MSVOA_U

ClientSampleId :

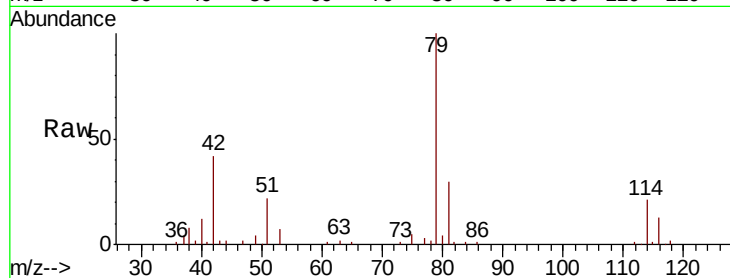
C0F03

Tot Ion: 75 Resp: 2459

Ion Ratio Lower Upper

75 100

77 62.3 22.5 41.7#



Abundance Ion 75.00 (74.70 to 75.70): VU037583.D (-1947) (-)

Ion 77.00 (76.70 to 77.70): VU037583.D (-1947) (-)

75 100

77 62.3 22.5 41.7#

79 100

86 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

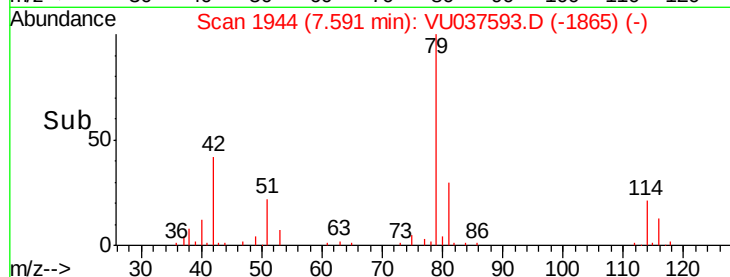
114 100

114 62.3 22.5 41.7#

114 100

114 62.3 22.5 41.7#

114 100



#42

Toluene

Concen: 1.202 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037593.D

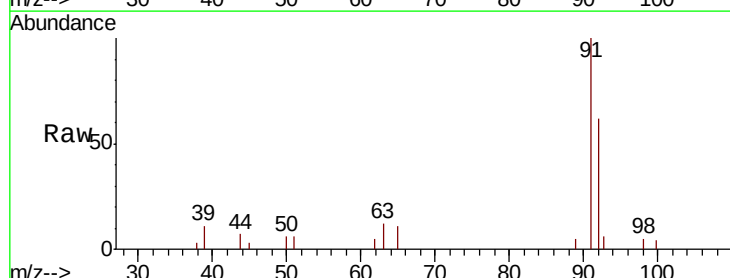
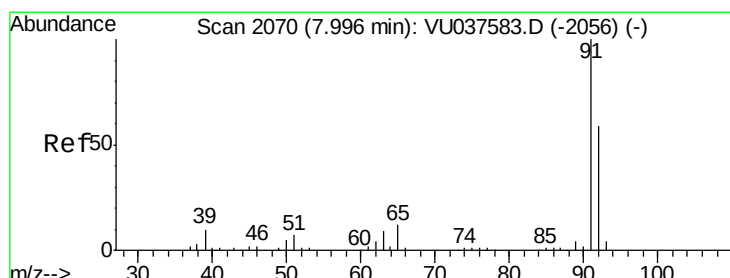
Acq: 06 Apr 2020 16:16

Tgt Ion: 91 Resp: 6258

Ion Ratio Lower Upper

91 100

92 62.0 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU037583.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU037583.D (-2056) (-)

91 100

92 62.0 39.7 73.7

91 100

92 62.0 39.7 73.7

91 100

92 62.0 39.7 73.7

91 100

92 62.0 39.7 73.7

91 100

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92 62.0 39.7 73.7

91 100

92 62.0 39.7 73.7

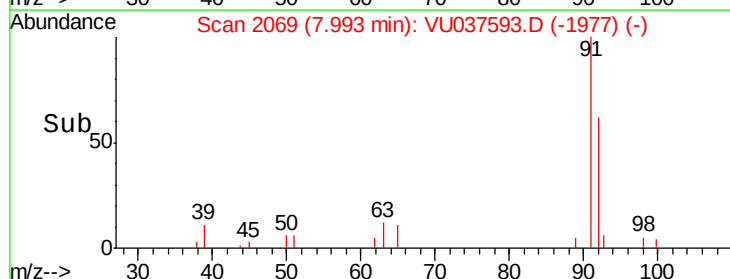
91 100

92 62.0 39.7 73.7

91 100

92 62.0 39.7 73.7

91 100



#42

Toluene

Concen: 1.202 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037593.D

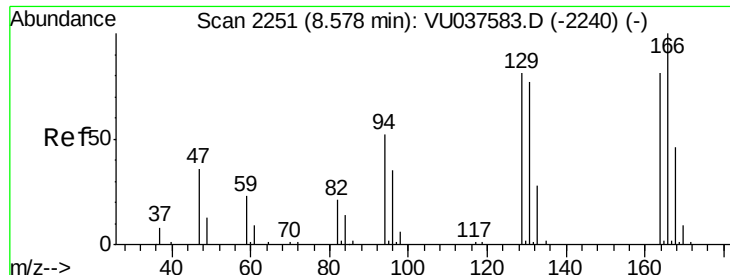
Acq: 06 Apr 2020 16:16

Tgt Ion: 91 Resp: 6258

Ion Ratio Lower Upper

91 100

92 62.0 39.7 73.7



#46

Tetrachloroethene

Concen: 20.765 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

Instrument :

MSVOA_U

ClientSampleId :

C0F03

Tot Ion:164 Resp: 17537

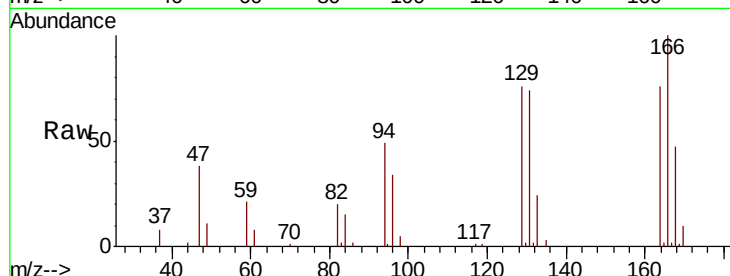
Ion Ratio Lower Upper

164 100

129 97.1 76.5 142.1

131 93.8 71.7 133.1

166 130.4 88.8 165.0

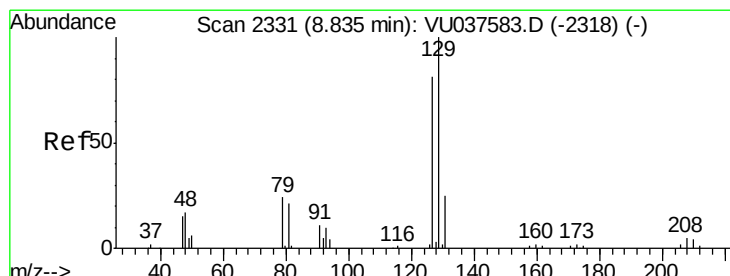
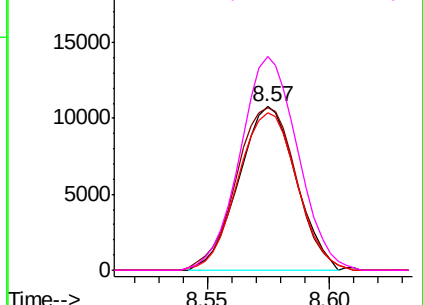
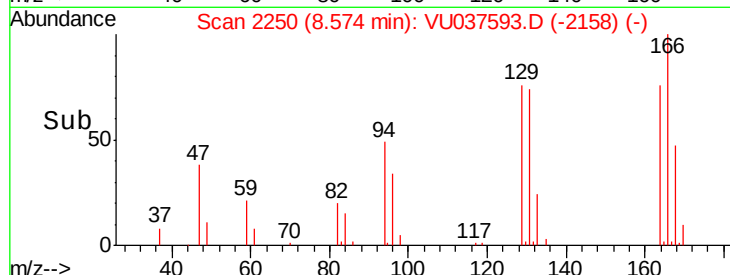


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

Dibromochloromethane

Concen: 13.129 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU037593.D

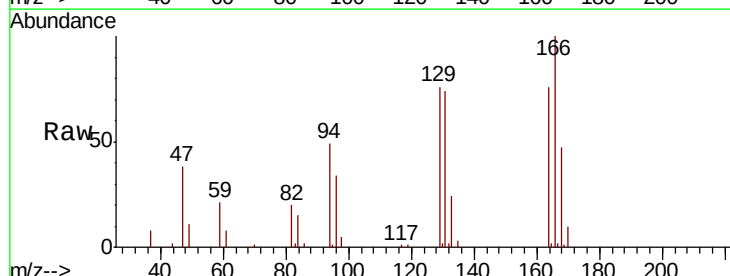
Acq: 06 Apr 2020 16:16

Tgt Ion:129 Resp: 18325

Ion Ratio Lower Upper

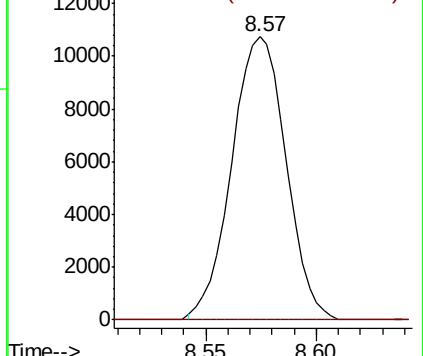
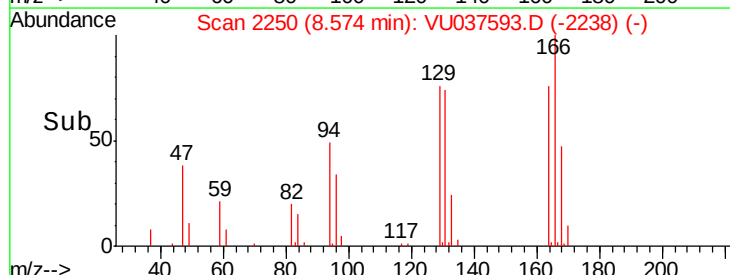
129 100

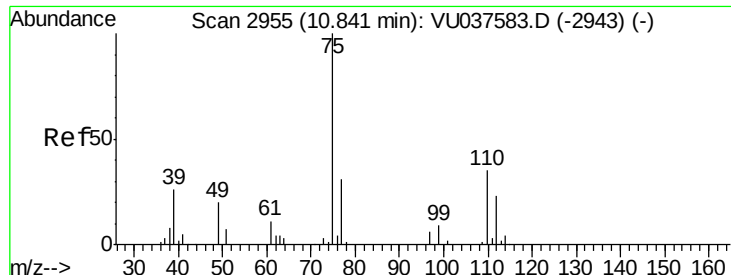
127 0.0 55.0 102.2#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#59

1,2,3-Trichloropropane

Concen: 7.258 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.98 min

Lab File: VU037593.D

Acq: 06 Apr 2020 16:16

Instrument :

MSVOA_U

ClientSampleId :

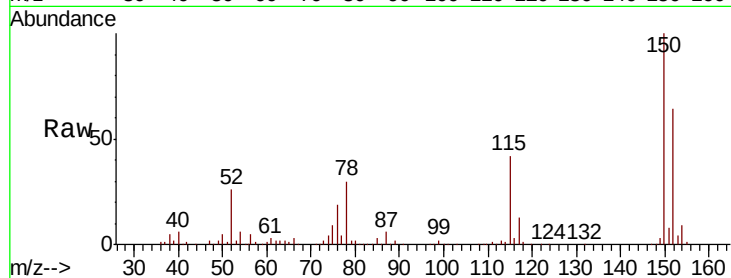
C0F03

Tot Ion: 75 Resp: 12789

Ion Ratio Lower Upper

75 100

77 39.4 25.5 38.3#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

