

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028139.D
 Acq On : 14 Nov 2018 23:20
 Operator : MD/SY
 Sample : J5943-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FG4

Quant Time: Nov 15 06:17:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 06:14:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	132671	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	125645	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	56238	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	46347	4.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.20%
7) Chloroethane-d5	1.68	69	38072	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.00%
11) 1,1-Dichloroethene-d2	2.28	63	66700	3.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.80%
20) 2-Butanone-d5	4.19	46	167196	52.36	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.72%
24) Chloroform-d	4.65	84	81082	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.31	65	47800	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.34	84	167011	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	6.33	67	62995	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.57	98	145139	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.40%
43) trans-1,3-Dichloropropene-	7.85	79	18792	4.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.60%
46) 2-Hexanone-d5	8.31	63	126546	48.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.28%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	43751	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	50231	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
3) Chloromethane	1.39	50	3383	0.226 ug/L	86
5) Vinyl chloride	1.40	62	37810	2.661 ug/L	97
12) 1,1-Dichloroethene	2.28	96	887	0.101 ug/L #	1
13) Acetone	2.32	43	2282	1.061 ug/L	93
15) Methyl Acetate	2.64	43	1201	0.209 ug/L #	58
18) trans-1,2-Dichloroethene	2.98	96	4555	0.486 ug/L	90
19) 1,1-Dichloroethane	3.45	63	3324	0.169 ug/L	92
22) cis-1,2-Dichloroethene	4.23	96	25255	2.442 ug/L	97
25) Chloroform	4.66	83	939	0.053 ug/L #	74
33) Benzene	5.39	78	3773	0.089 ug/L	100
34) Trichloroethene	6.19	95	1893	0.181 ug/L	92
35) Methylcyclohexane	6.42	83	2009	0.112 ug/L #	90
37) 1,2-Dichloropropane	6.33	63	6083	0.520 ug/L #	94
39) cis-1,3-Dichloropropene	7.23	75	1236	0.078 ug/L #	47
42) Toluene	7.64	91	1742	0.040 ug/L	86
45) 1,1,2-Trichloroethane	8.04	97	557	0.079 ug/L #	14
47) Tetrachloroethene	8.22	164	891	0.105 ug/L #	85

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 15 06:14:20 2018
Response via : Initial Calibration

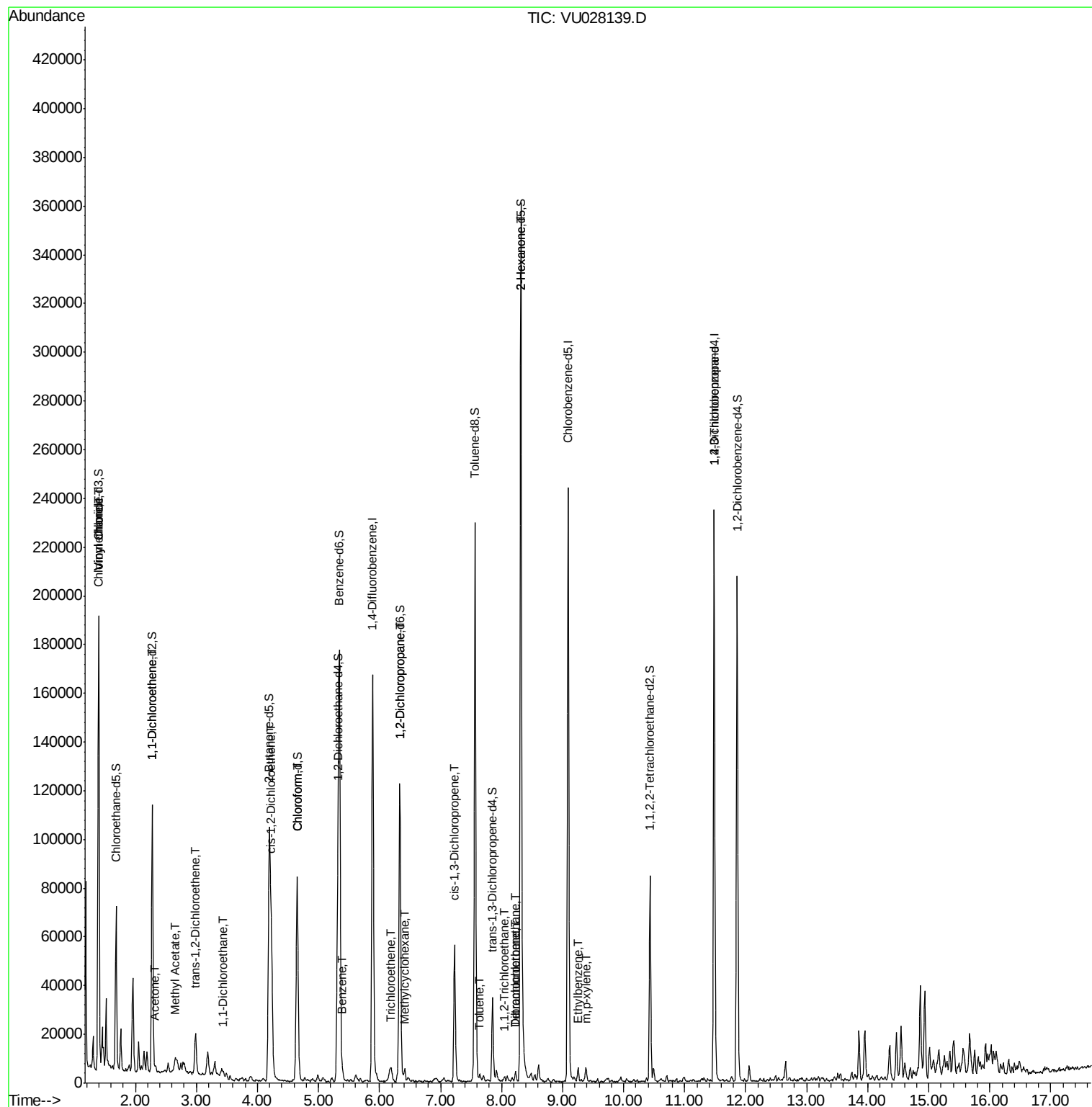
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.31	43	16003	2.790	ug/L #	70
49) Dibromochloromethane	8.23	129	686	0.091	ug/L #	11
52) Ethylbenzene	9.25	91	3844	0.081	ug/L	89
53) m,p-xylene	9.38	106	1244	0.072	ug/L	91
59) 1,2,3-Trichloropropane	11.48	75	8811	1.340	ug/L	93

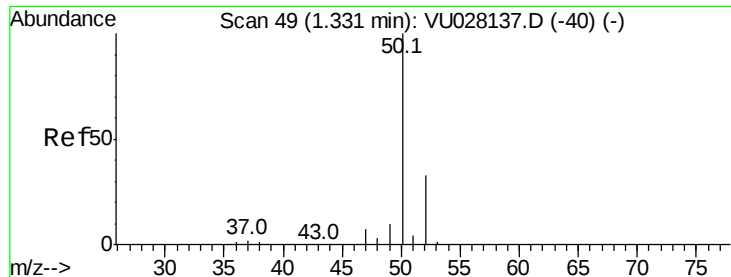
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.226 ug/L

RT: 1.39 min Scan# 67

Delta R.T. 0.06 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampleId :

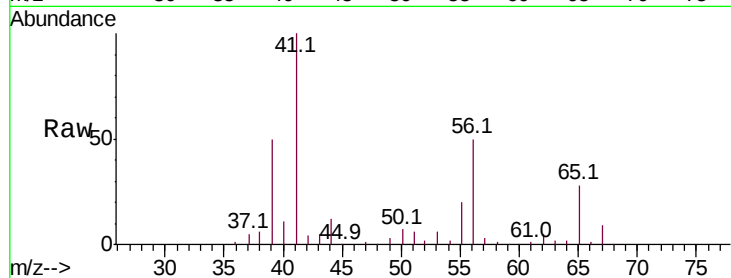
H0FG4

Tot Ion: 50 Resp: 3383

Ion Ratio Lower Upper

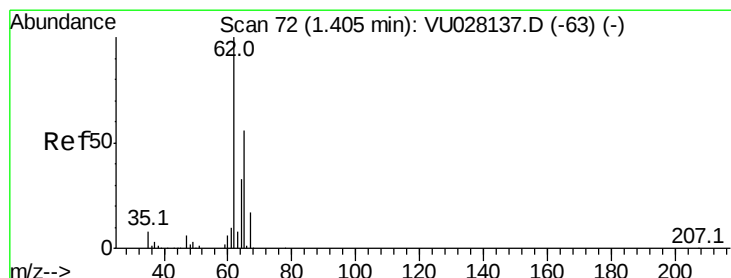
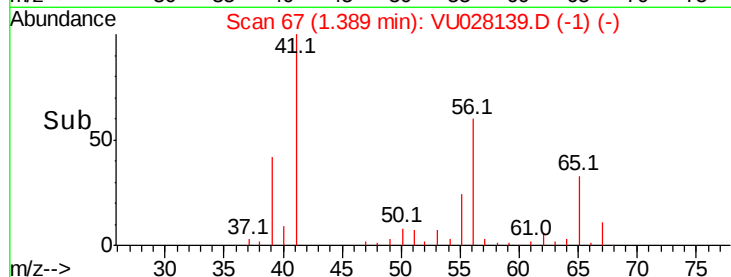
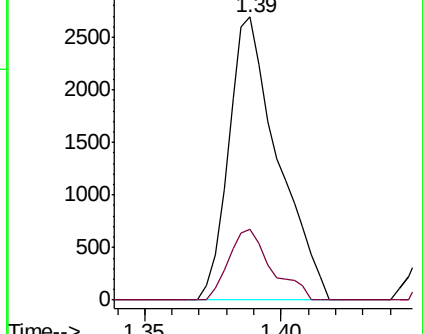
50 100

52 24.9 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 2.661 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028139.D

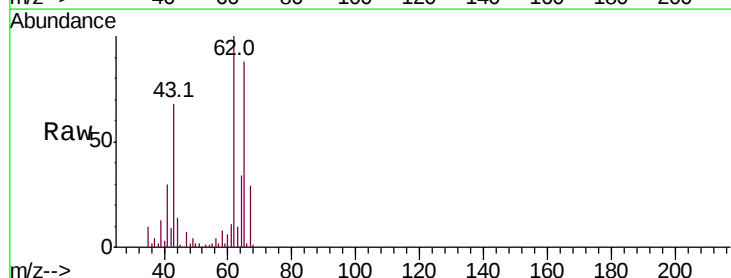
Acq: 14 Nov 2018 23:20

Tgt Ion: 62 Resp: 37810

Ion Ratio Lower Upper

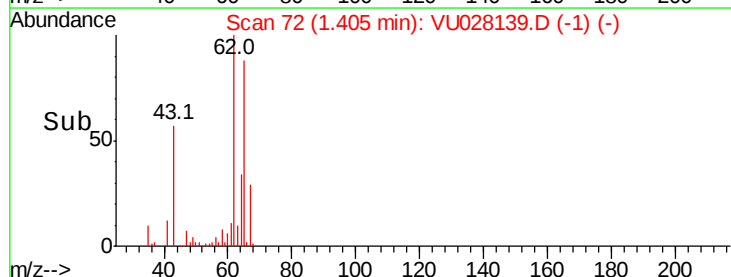
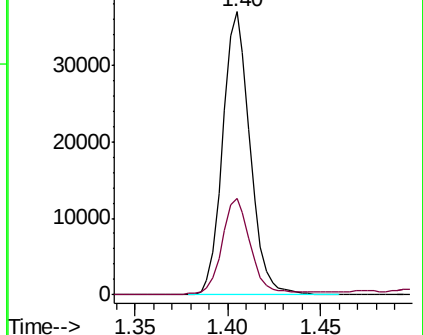
62 100

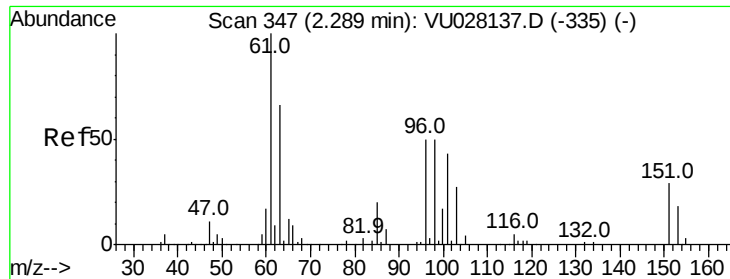
64 34.2 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#12

1,1-Dichloroethene

Concen: 0.101 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.01 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampleId :

H0FG4

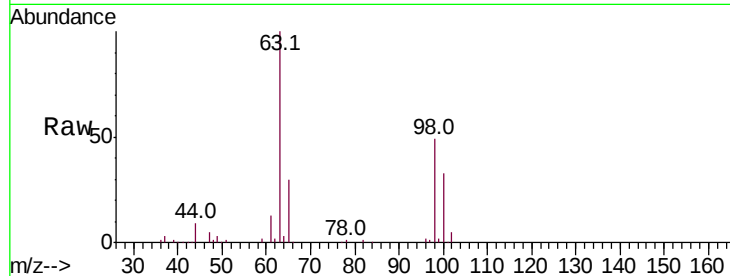
Tot Ion: 96 Resp: 887

Ion Ratio Lower Upper

96 100

61 785.4 134.8 250.3#

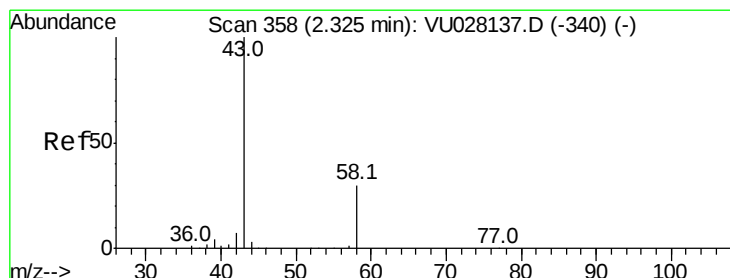
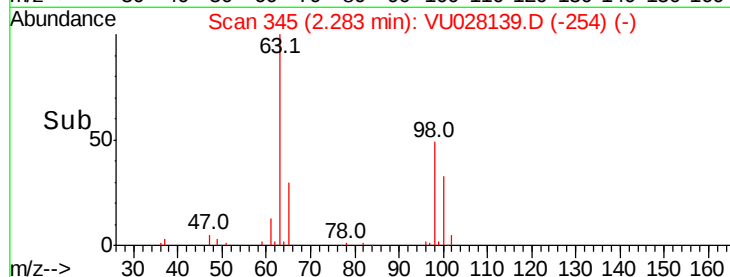
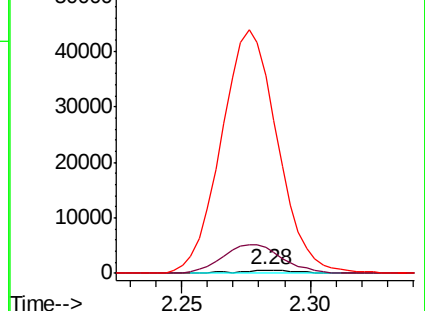
63 6114.6 100.1 185.9#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 1.061 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028139.D

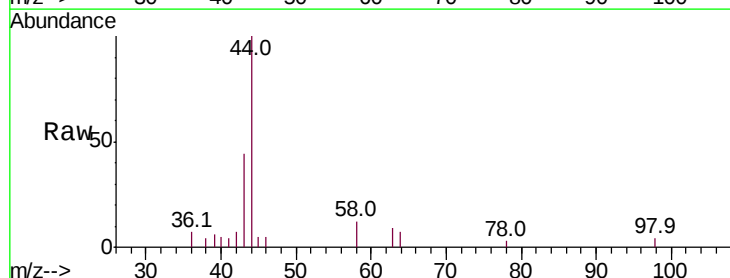
Acq: 14 Nov 2018 23:20

Tgt Ion: 43 Resp: 2282

Ion Ratio Lower Upper

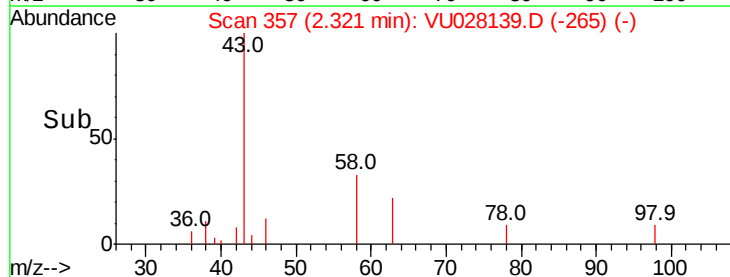
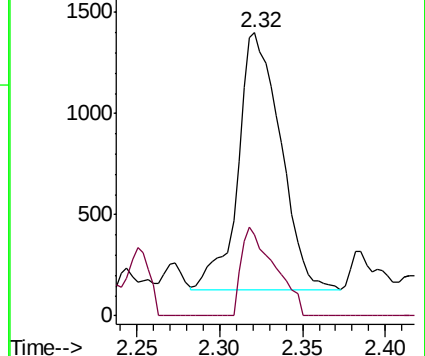
43 100

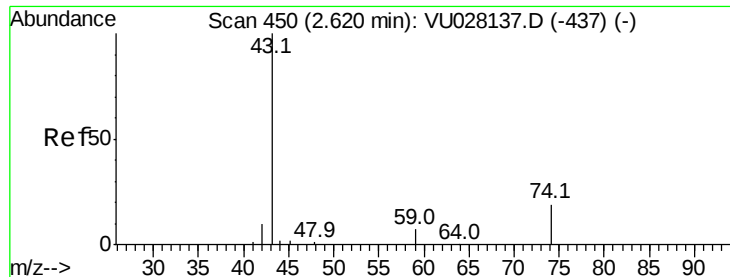
58 26.9 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 0.209 ug/L

RT: 2.64 min Scan# 455

Delta R.T. 0.02 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampled :

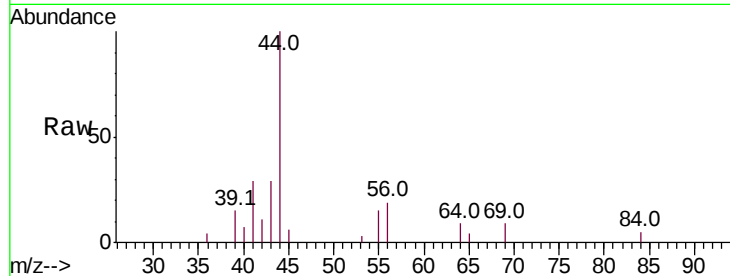
H0FG4

Tot Ion: 43 Resp: 1201

Ion Ratio Lower Upper

43 100

74 0.0 14.9 22.3#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.64

800

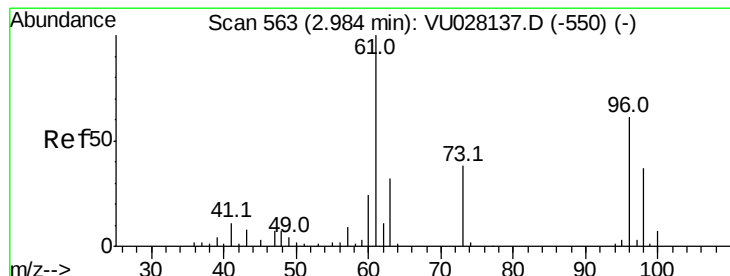
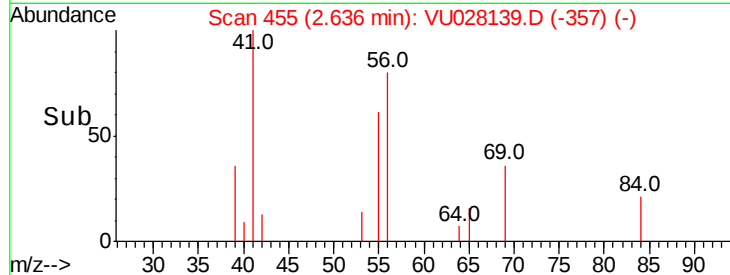
600

400

200

0

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.486 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

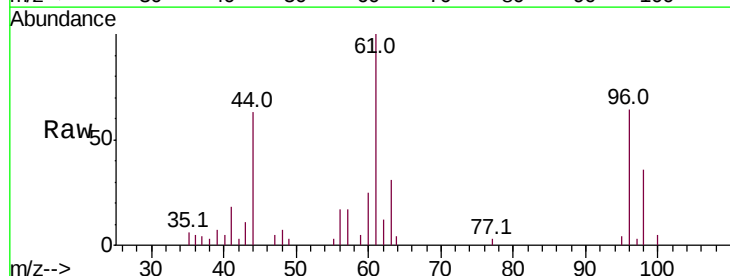
Tgt Ion: 96 Resp: 4555

Ion Ratio Lower Upper

96 100

61 155.6 118.5 220.1

98 55.4 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

6000

5000

4000

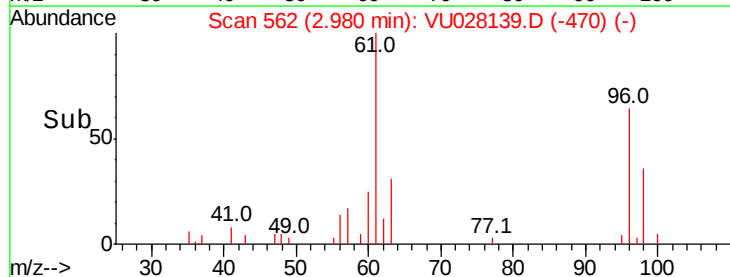
3000

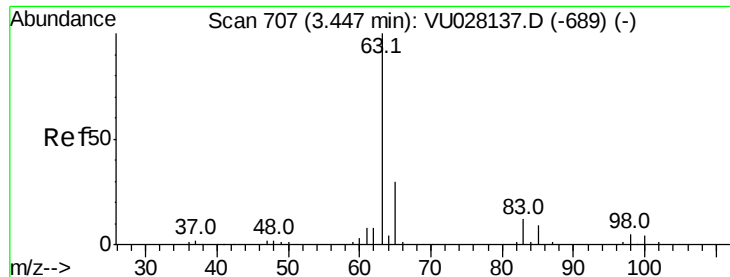
2000

1000

0

Time-->





#19

1,1-Dichloroethane

Concen: 0.169 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampleId :

H0FG4

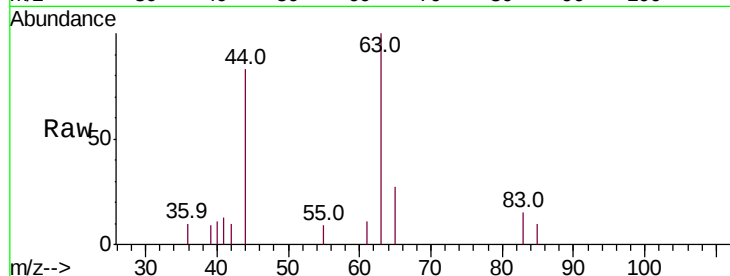
Tot Ion: 63 Resp: 3324

Ion Ratio Lower Upper

63 100

65 26.9 22.2 41.2

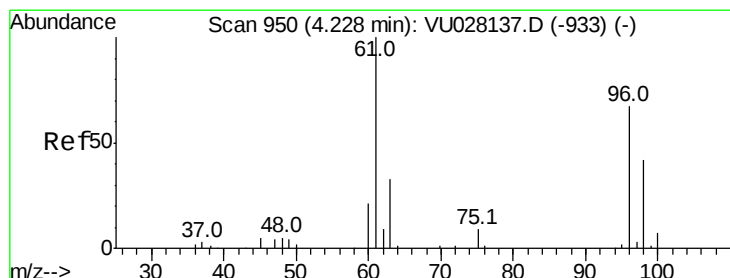
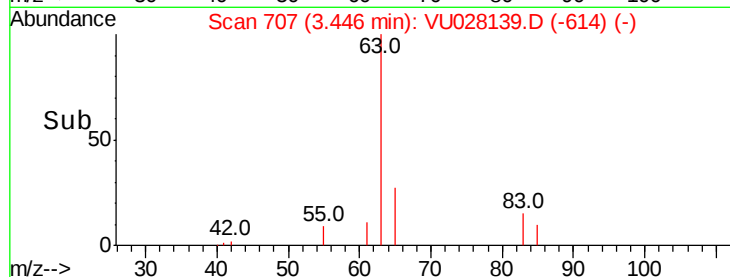
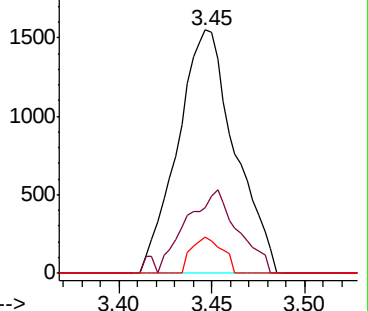
83 14.7 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU028137.D (-689) (-)

Ion 65.10 (64.80 to 65.80): VU028137.D (-689) (-)

Ion 83.05 (82.75 to 83.75): VU028137.D (-689) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.442 ug/L

RT: 4.23 min Scan# 951

Delta R.T. 0.00 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

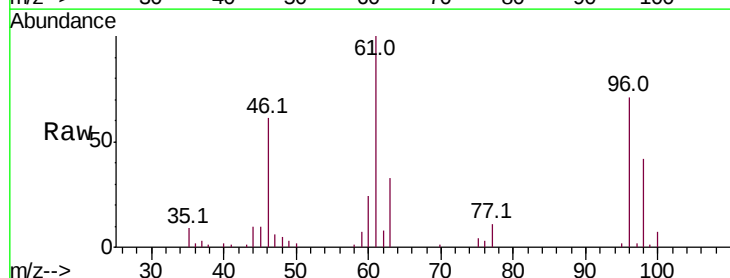
Tgt Ion: 96 Resp: 25255

Ion Ratio Lower Upper

96 100

61 141.5 101.8 189.0

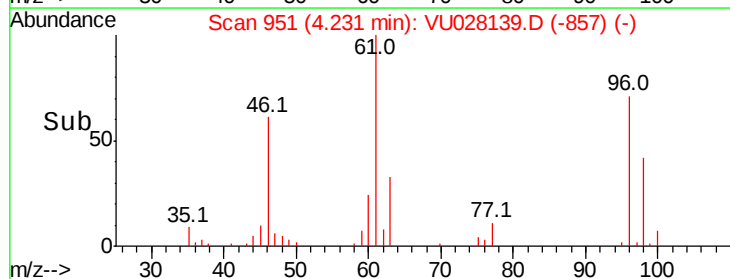
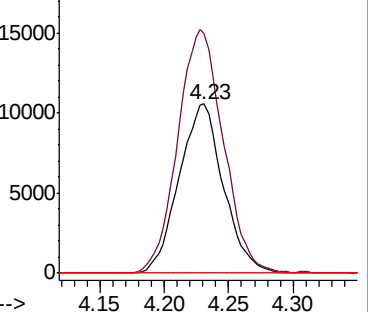
68 0.0 0.0 0.0

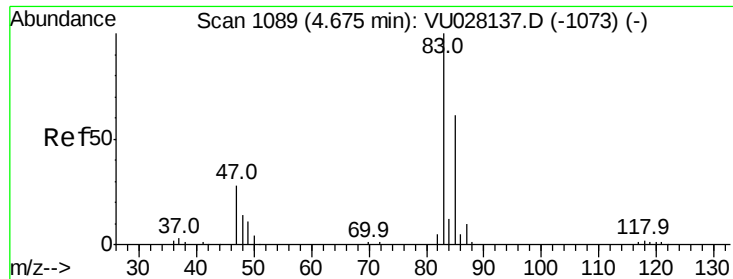


Abundance Ion 96.00 (95.70 to 96.70): VU028139.D (-857) (-)

Ion 61.05 (60.75 to 61.75): VU028139.D (-857) (-)

Ion 68.15 (67.85 to 68.85): VU028139.D (-857) (-)

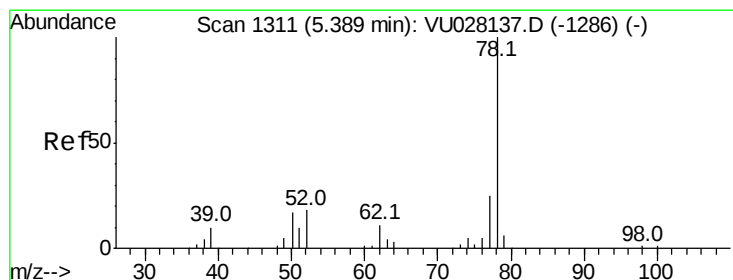
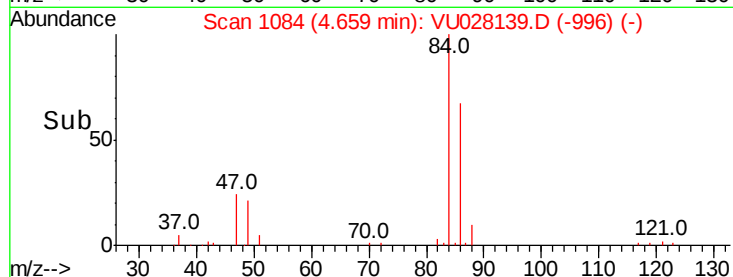
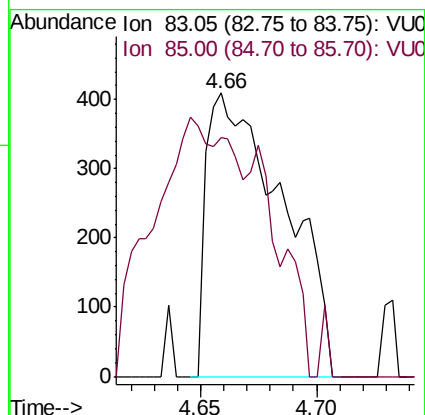
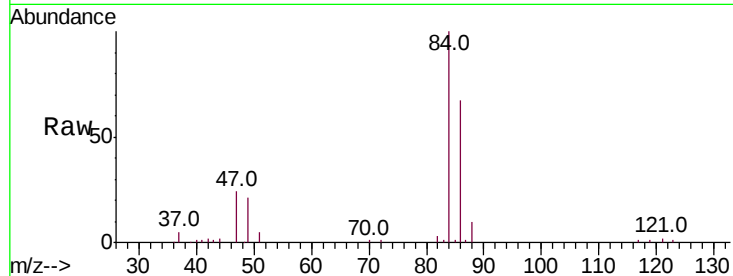




#25
Chloroform
Concen: 0.053 ug/L
RT: 4.66 min Scan# 1084
Delta R.T. -0.02 min
Lab File: VU028139.D
Acq: 14 Nov 2018 23:20

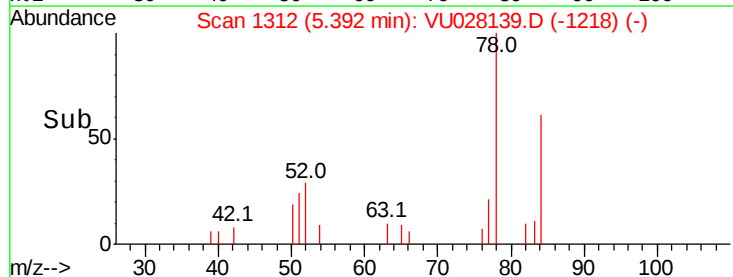
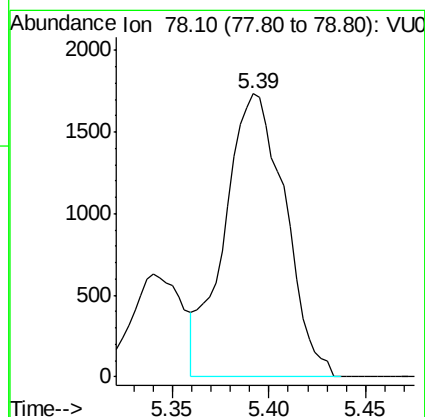
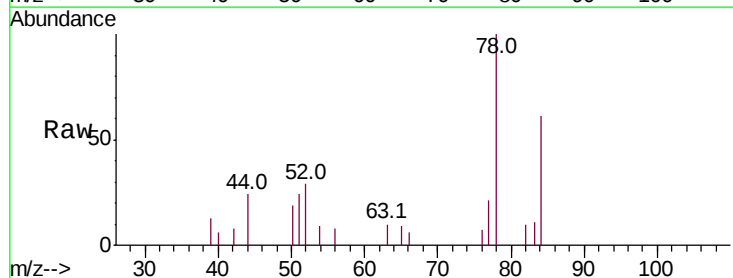
Instrument :
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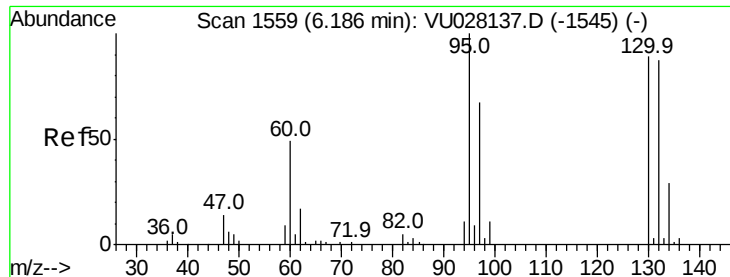
Tot Ion: 83 Resp: 939
Ion Ratio Lower Upper
83 100
85 84.4 45.0 83.6#



#33
Benzene
Concen: 0.089 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU028139.D
Acq: 14 Nov 2018 23:20

Tgt Ion: 78 Resp: 3773





#34

Trichloroethene

Concen: 0.181 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampleId :

H0FG4

Tot Ion: 95 Resp: 1893

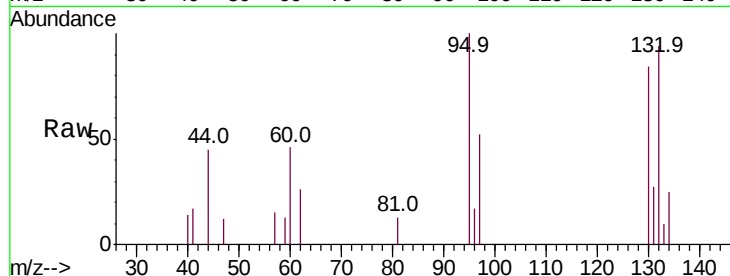
Ion Ratio Lower Upper

95 100

97 52.0 45.3 84.1

132 93.5 63.0 117.0

130 84.2 63.6 118.2

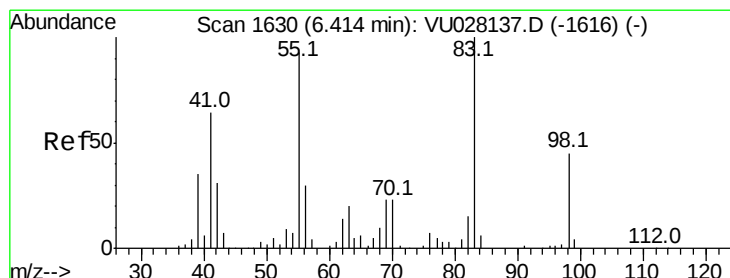
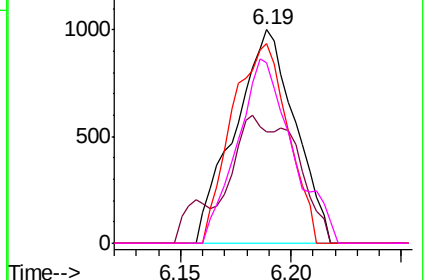
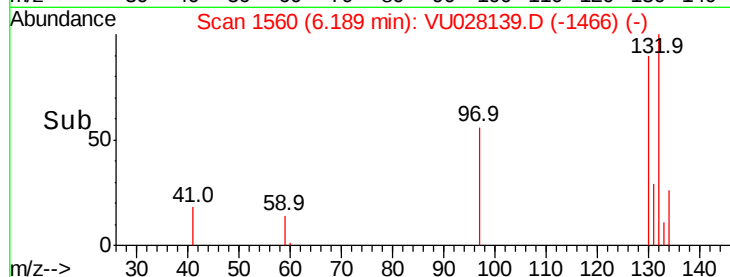


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.112 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

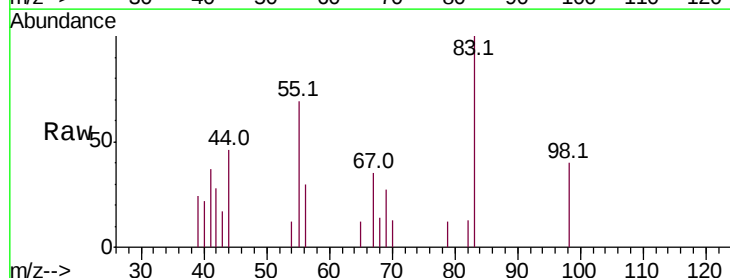
Tgt Ion: 83 Resp: 2009

Ion Ratio Lower Upper

83 100

55 90.0 69.0 103.4

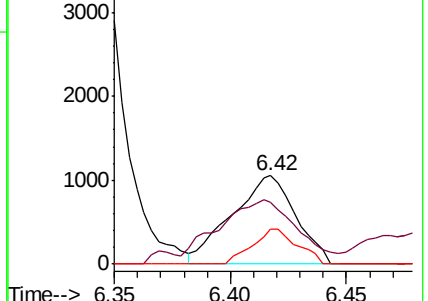
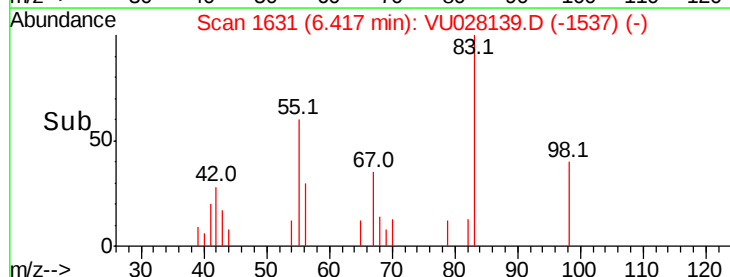
98 28.0 33.3 49.9#

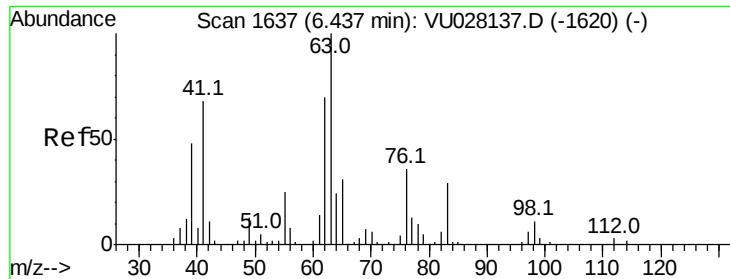


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

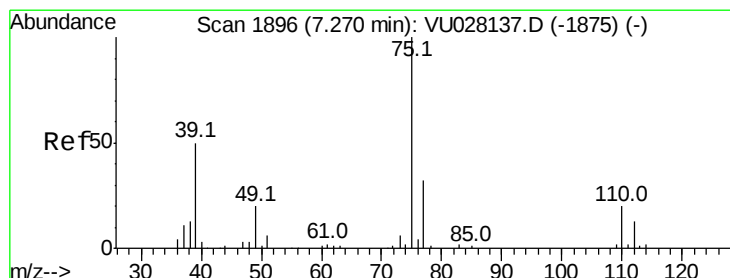
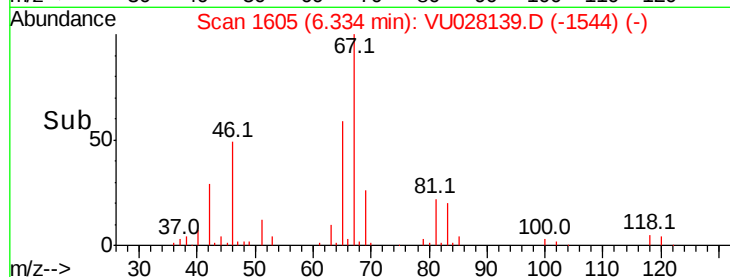
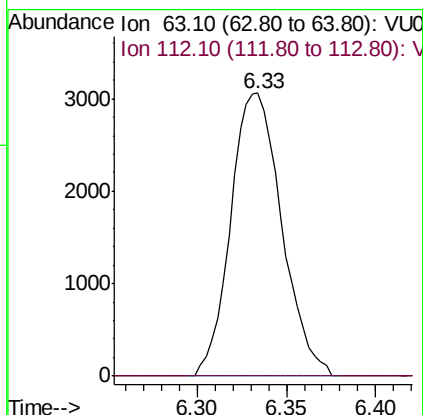
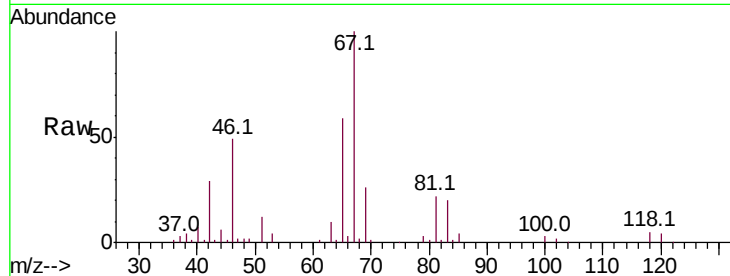




#37
 1,2-Dichloropropane
 Concen: 0.520 ug/L
 RT: 6.33 min Scan# 1605
 Delta R.T. -0.10 min
 Lab File: VU028139.D
 Acq: 14 Nov 2018 23:20

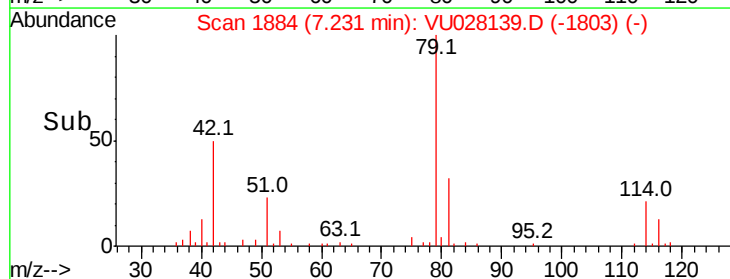
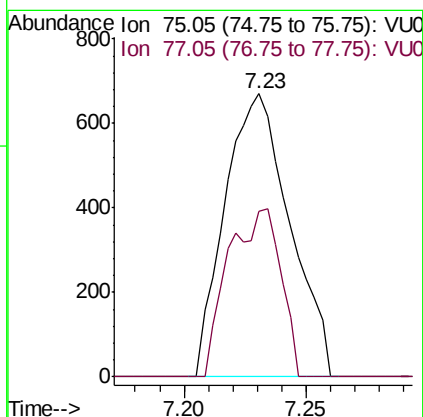
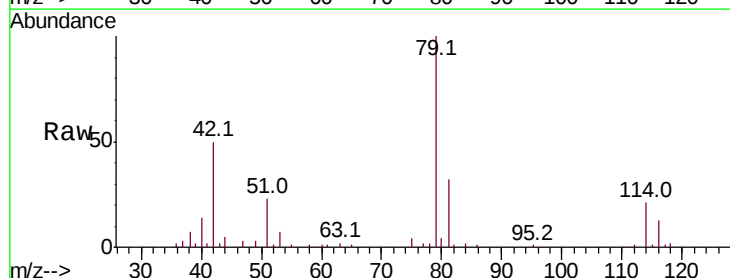
Instrument :
 MSVOA_U
 ClientSampleId :
 H0FG4

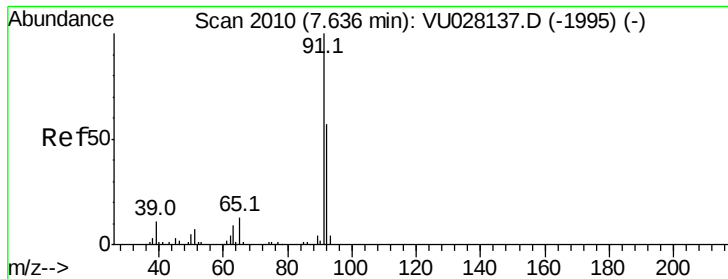
Tot Ion: 63 Resp: 6083
 Ion Ratio Lower Upper
 63 100
 112 0.7 2.2 3.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.078 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU028139.D
 Acq: 14 Nov 2018 23:20

Tgt Ion: 75 Resp: 1236
 Ion Ratio Lower Upper
 75 100
 77 58.4 20.9 38.9#





#42

Toluene

Concen: 0.040 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.01 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampled :

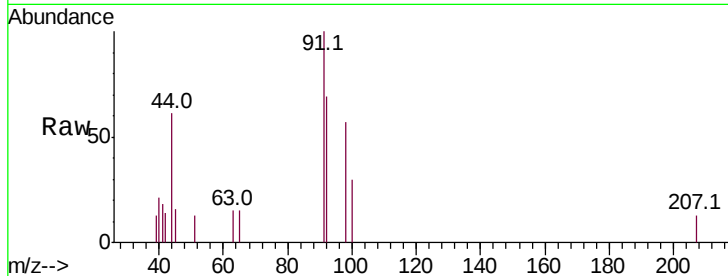
H0FG4

Tot Ion: 91 Resp: 1742

Ion Ratio Lower Upper

91 100

92 68.5 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.64

800

600

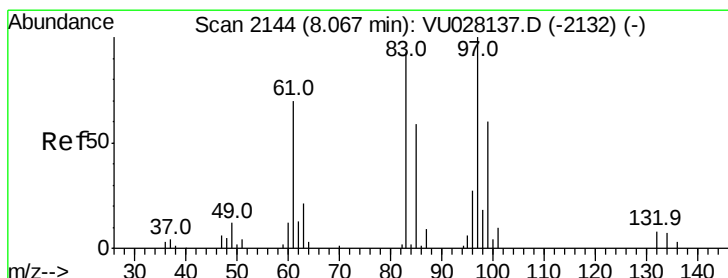
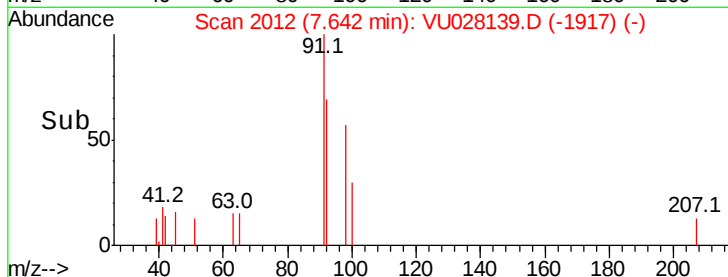
400

200

0

Time-->

7.60 7.65 7.70



#45

1,1,2-Trichloroethane

Concen: 0.079 ug/L

RT: 8.04 min Scan# 2136

Delta R.T. -0.03 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Tgt Ion: 97 Resp: 557

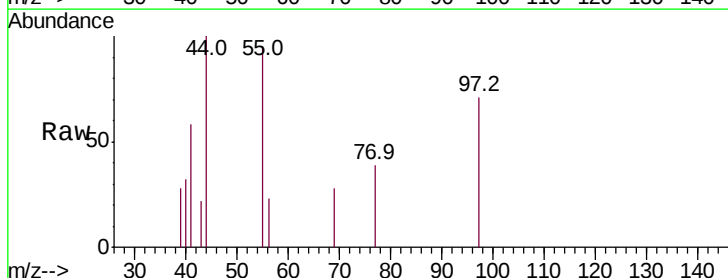
Ion Ratio Lower Upper

97 100

99 0.0 42.1 78.1#

83 0.0 63.7 118.3#

85 0.0 40.6 75.4#



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

500

400

300

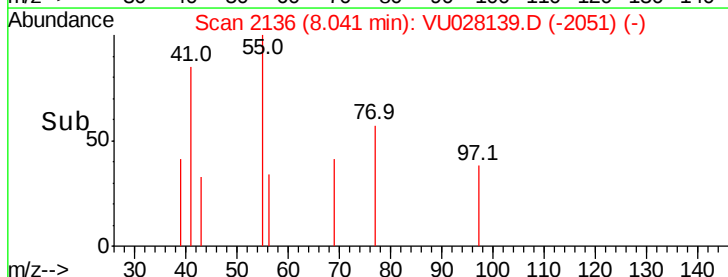
200

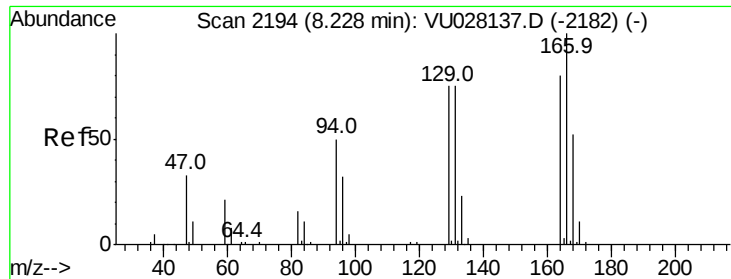
100

0

Time-->

8.00 8.02 8.04 8.06 8.08





#47

Tetrachloroethene

Concen: 0.105 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampled :

H0FG4

Tot Ion:164 Resp: 891

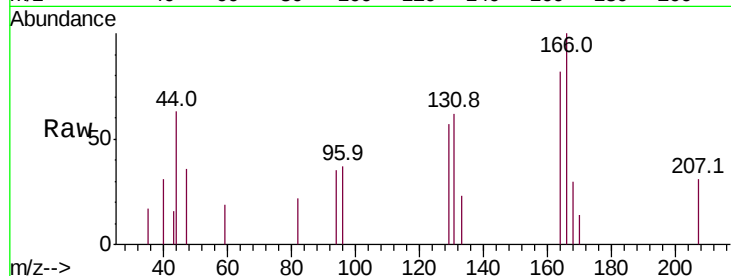
Ion Ratio Lower Upper

164 100

129 69.6 69.7 129.4#

131 75.2 64.0 118.8

166 121.3 86.4 160.4

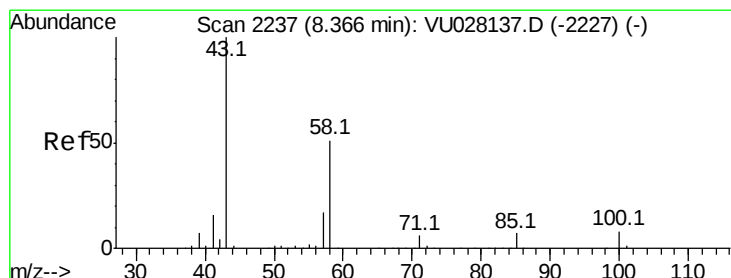
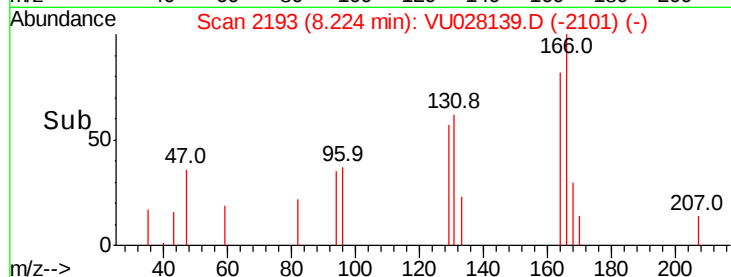
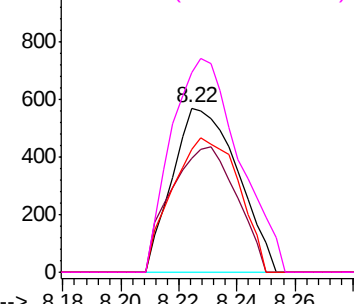


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.790 ug/L

RT: 8.31 min Scan# 2221

Delta R.T. -0.05 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Tgt Ion: 43 Resp: 16003

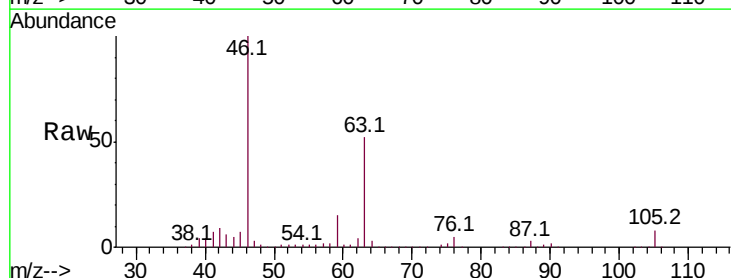
Ion Ratio Lower Upper

43 100

58 26.3 41.7 62.5#

57 22.9 14.0 21.0#

100 0.0 7.2 10.8#

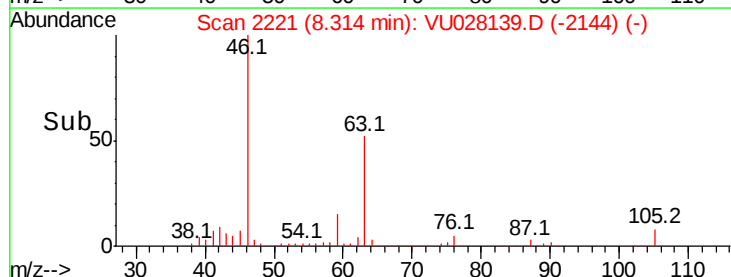
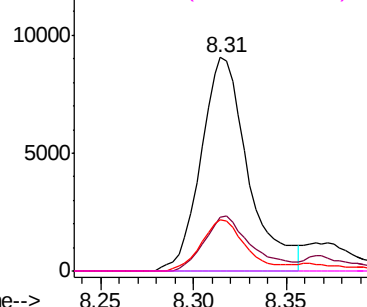


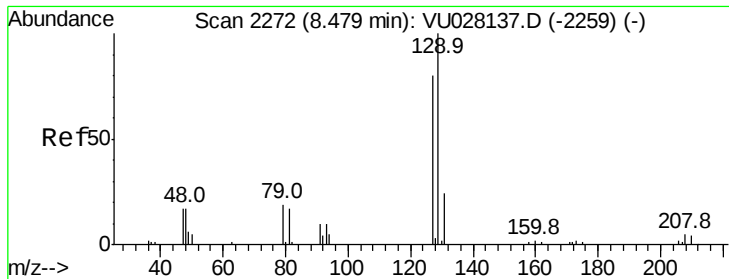
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.091 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampleId :

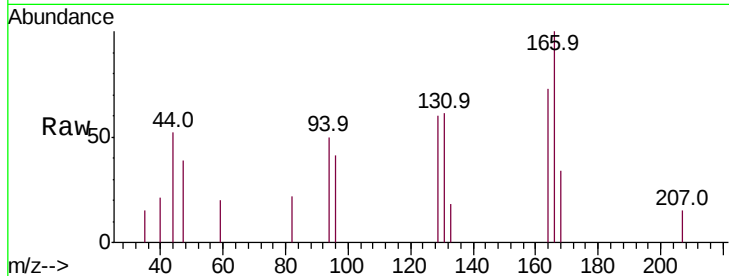
H0FG4

Tot Ion:129 Resp: 686

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.23

400

300

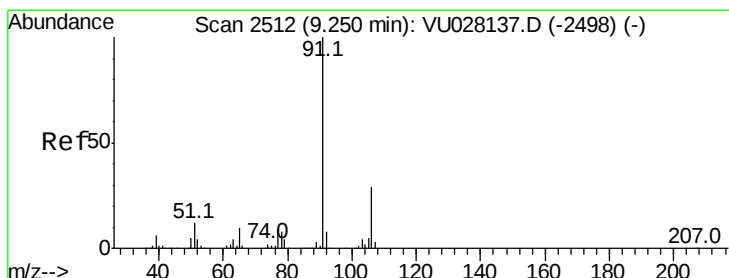
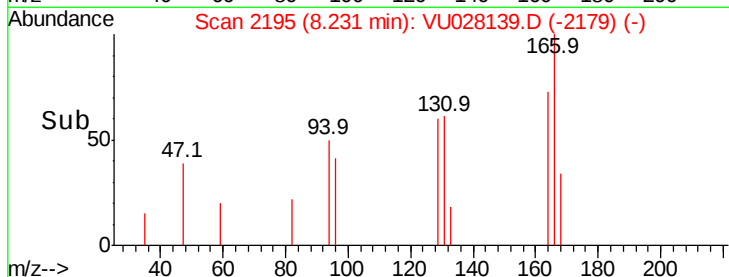
200

100

0

8.20 8.22 8.24 8.26

Time-->



#52

Ethylbenzene

Concen: 0.081 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU028139.D

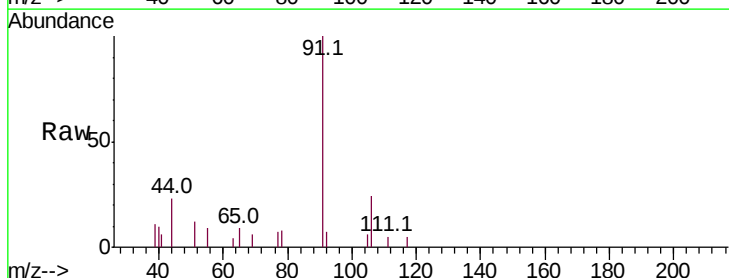
Acq: 14 Nov 2018 23:20

Tgt Ion: 91 Resp: 3844

Ion Ratio Lower Upper

91 100

106 24.0 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

9.25

3000

2500

2000

1500

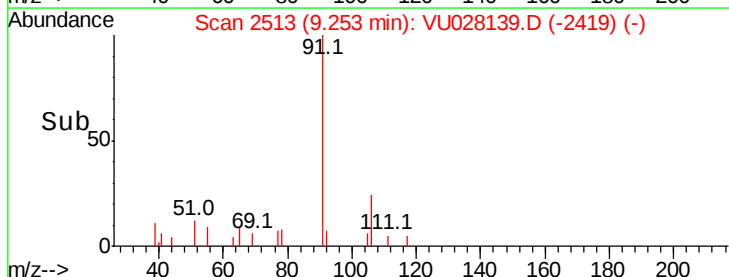
1000

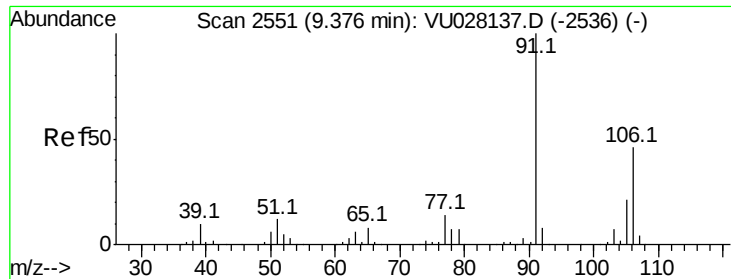
500

0

9.20 9.25 9.30

Time-->





#53

m,p-xylene

Concen: 0.072 ug/L

RT: 9.38 min Scan# 2553

Delta R.T. 0.01 min

Lab File: VU028139.D

Acq: 14 Nov 2018 23:20

Instrument :

MSVOA_U

ClientSampleId :

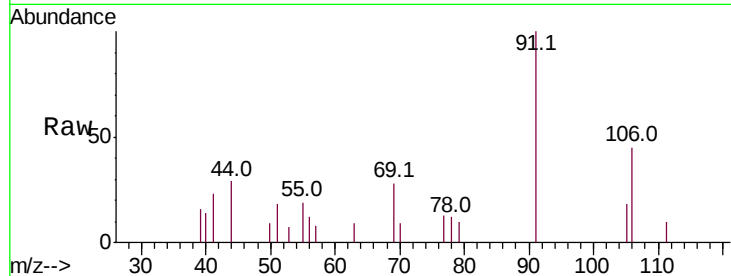
H0FG4

Tot Ion:106 Resp: 1244

Ion Ratio Lower Upper

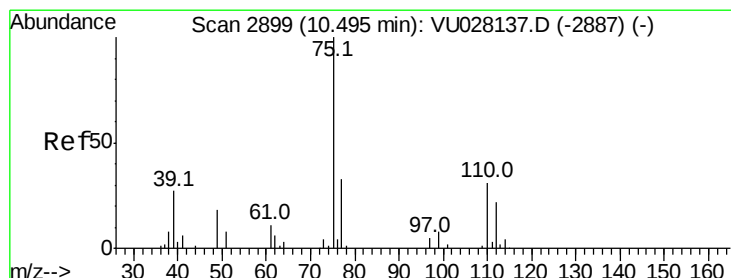
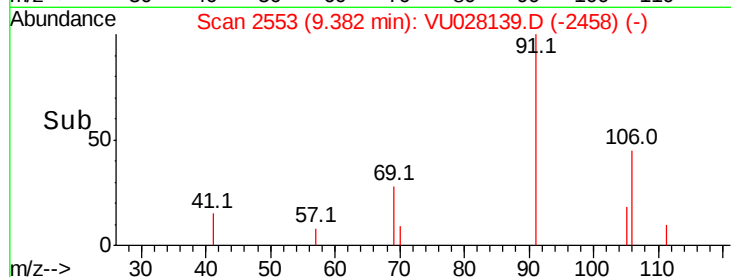
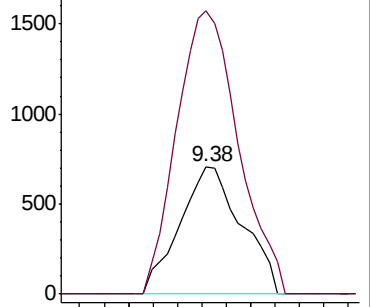
106 100

91 222.2 145.7 270.7



Abundance Ion 106.15 (105.85 to 106.85): VU028139.D (-2536) (-)

Ion 91.15 (90.85 to 91.85): VU028139.D (-2536) (-)



#59

1,2,3-Trichloropropane

Concen: 1.340 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028139.D

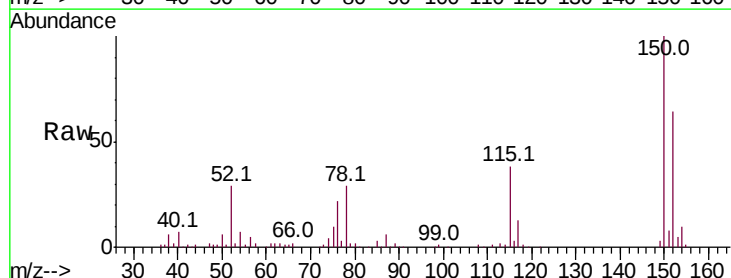
Acq: 14 Nov 2018 23:20

Tgt Ion: 75 Resp: 8811

Ion Ratio Lower Upper

75 100

77 35.4 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU028139.D (-2277) (-)

Ion 77.00 (76.70 to 77.70): VU028139.D (-2277) (-)

