

Data File : VU034750.D
Acq On : 23 Sep 2019 22:06
Operator : JC/SP
Sample : K4932-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDG8

Quant Time: Sep 24 03:41:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	494055	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	467391	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	224480	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	204684	40.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.94%
7) Chloroethane-d5	1.67	69	169046	43.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.48%
11) 1,1-Dichloroethene-d2	2.26	63	285048	33.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.56%
21) 2-Butanone-d5	4.15	46	359603	92.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.77%
24) Chloroform-d	4.65	84	19260	2.62	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	5.24%#
26) 1,2-Dichloroethane-d4	5.29	65	265411	49.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.20%
32) Benzene-d6	5.32	84	734928	50.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.46%
36) 1,2-Dichloropropane-d6	6.31	67	259904	51.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.66%
41) Toluene-d8	7.54	98	697354	50.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.20%
43) trans-1,3-Dichloropropene-	7.83	79	120893	49.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.70%
47) 2-Hexanone-d5	8.29	63	210350	82.71	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.71%
57) 1,1,2,2-Tetrachloroethane-	10.49	84	74	0.01	ug/L	0.08
Spiked Amount	50.000	Range	65 - 120	Recovery	=	0.02%#
64) 1,2-Dichlorobenzene-d4	11.84	152	255123	54.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

						Qvalue
13) Acetone	2.31	43	67837	15.044	ug/L	97
16) Methylene chloride	2.69	84	132415	32.339	ug/L	99
20) cis-1,2-Dichloroethene	4.21	96	12643	3.060	ug/L	83
22) 2-Butanone	4.25	43	19715	3.675	ug/L	91
25) Chloroform	4.65	83	340900	42.700	ug/L	100
27) 1,2-Dichloroethane	5.38	62	8739	1.267	ug/L	98
29) Cyclohexane	4.97	56	26852	3.481	ug/L	99
33) Benzene	5.37	78	410105	25.299	ug/L	100
34) Trichloroethene	6.16	95	71783	17.930	ug/L	94
35) Methylcyclohexane	6.39	83	24850	3.658	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6602	1.368	ug/L #	98
40) 4-Methyl-2-pentanone	7.44	43	211205	22.919	ug/L	98
42) Toluene	7.61	91	2243972	128.089	ug/L	98
46) Tetrachloroethene	8.21	164	12770	4.535	ug/L	97
48) 2-Hexanone	8.34	43	23217	3.226	ug/L #	58
49) Dibromochloromethane	8.21	129	12288	2.851	ug/L #	10
51) Chlorobenzene	9.10	112	11311	1.062	ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Quantitation Report (Not Reviewed)

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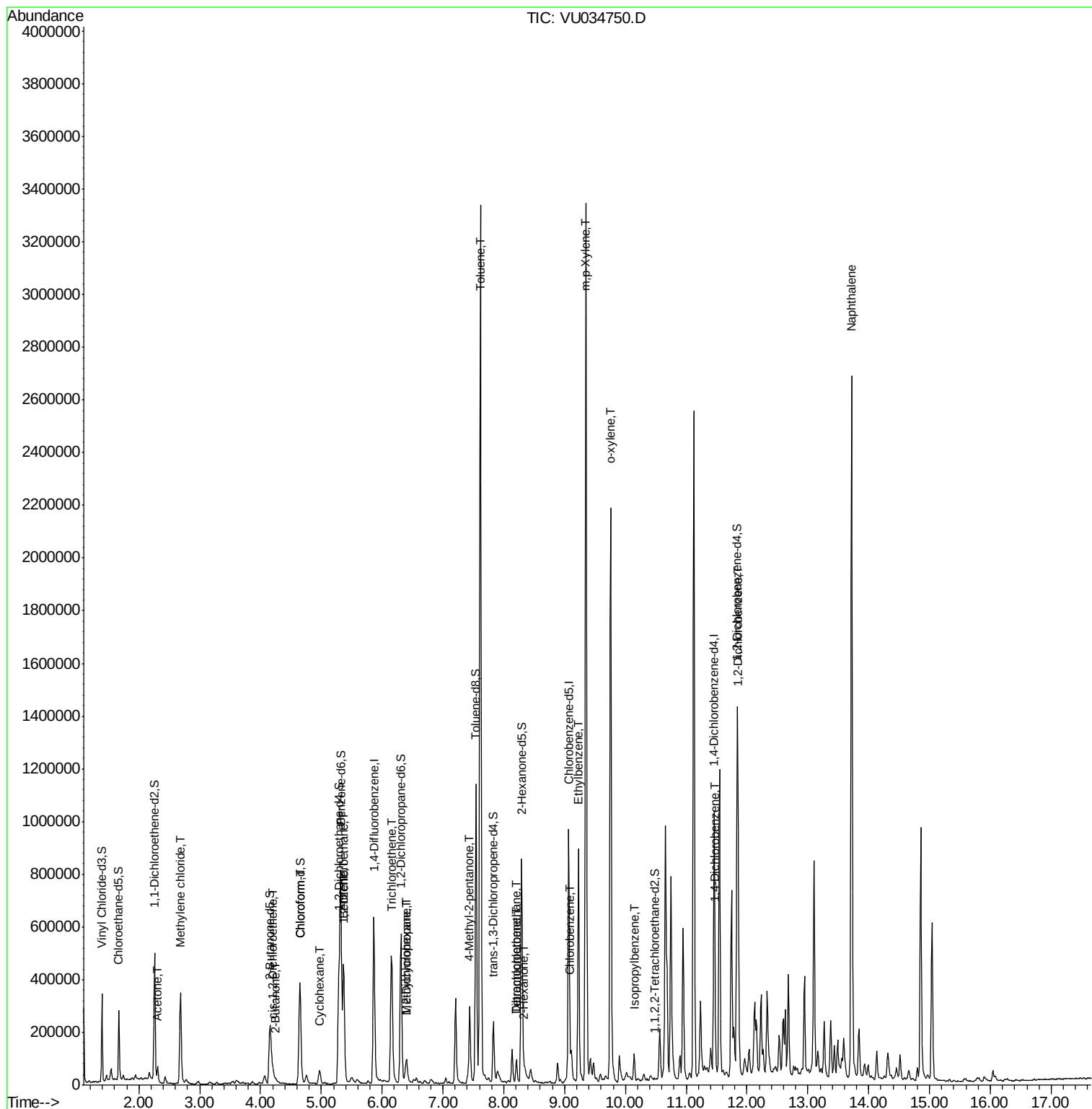
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.23	91	578399	29.319	ug/L	99
53) m,p-Xylene	9.35	106	843618	120.733	ug/L	98
54) o-xylene	9.76	106	516448	74.727	ug/L	98
56) Isopropylbenzene	10.14	105	61065	3.277	ug/L	98
63) 1,4-Dichlorobenzene	11.48	146	12931	1.633	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	89395	11.381	ug/L	99
69) Naphthalene	13.72	128	1905586	134.388	ug/L	100

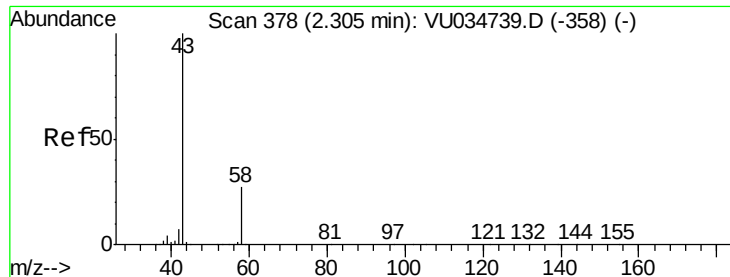
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 15.044 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

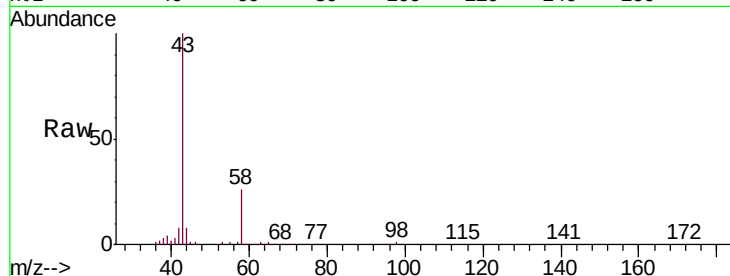
BFDG8

Tgt Ion: 43 Resp: 67837

Ion Ratio Lower Upper

43 100

58 25.1 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034739.D (-358) (-)

2.31

40000

30000

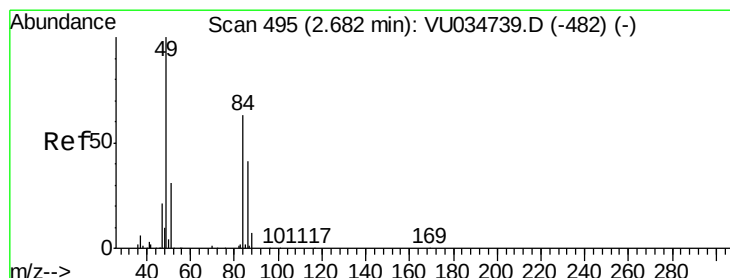
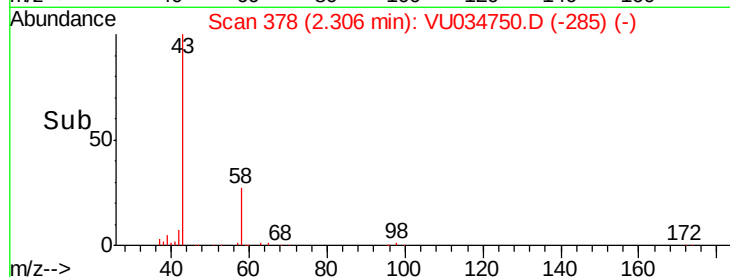
20000

10000

0

2.25 2.30 2.35

Time-->



#16

Methylene chloride

Concen: 32.339 ug/L

RT: 2.69 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

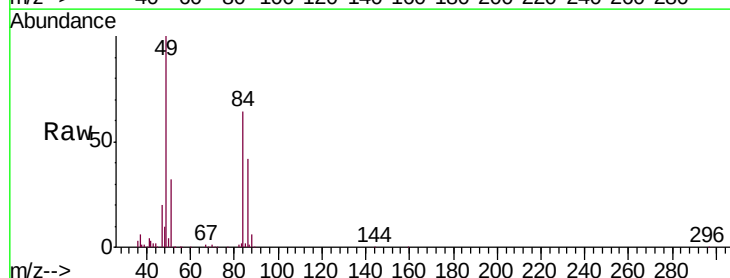
Tgt Ion: 84 Resp: 132415

Ion Ratio Lower Upper

84 100

86 65.0 43.0 80.0

49 156.4 109.7 203.7



Abundance Ion 84.00 (83.70 to 84.70): VU034739.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU034739.D (-482) (-)

Ion 49.00 (48.70 to 49.70): VU034739.D (-482) (-)

150000

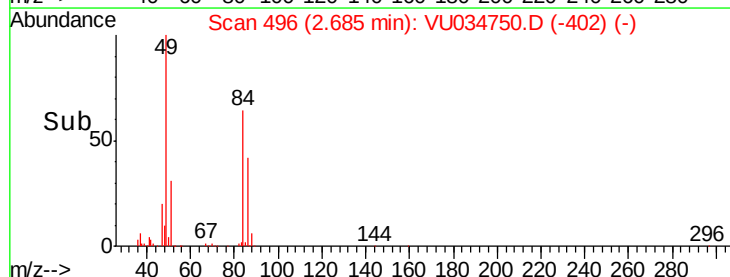
100000

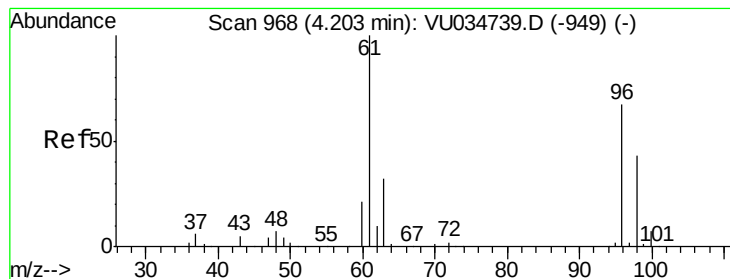
50000

0

2.60 2.65 2.70 2.75

Time-->





#20

cis-1,2-Dichloroethene

Concen: 3.060 ug/L

RT: 4.21 min Scan# 969

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

BFDG8

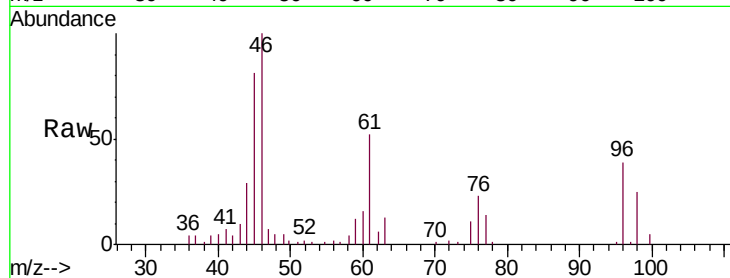
Tgt Ion: 96 Resp: 12643

Ion Ratio Lower Upper

96 100

61 133.2 108.8 202.2

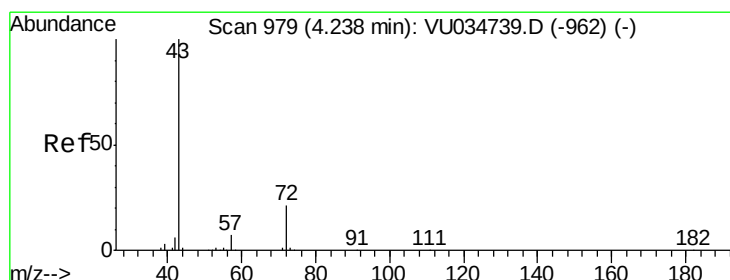
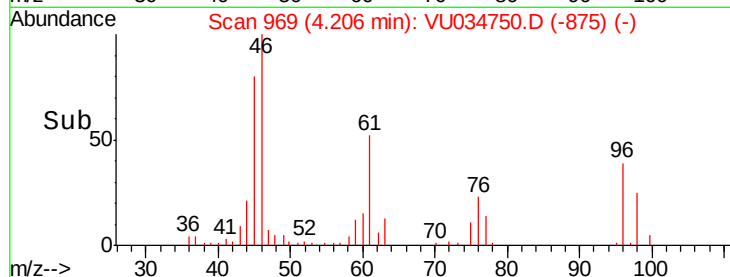
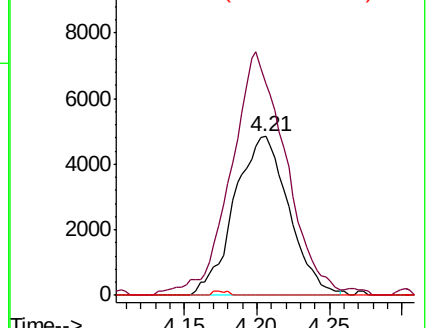
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU034739.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU034739.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU034739.D (-949) (-)



#22

2-Butanone

Concen: 3.675 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU034750.D

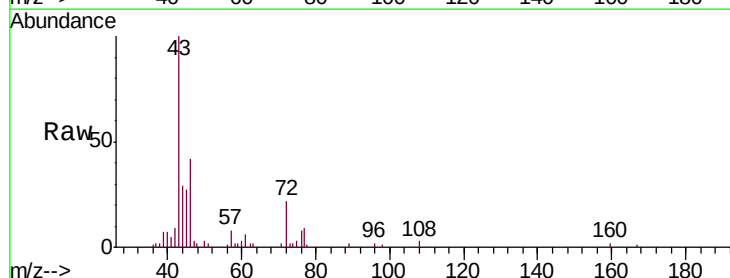
Acq: 23 Sep 2019 22:06

Tgt Ion: 43 Resp: 19715

Ion Ratio Lower Upper

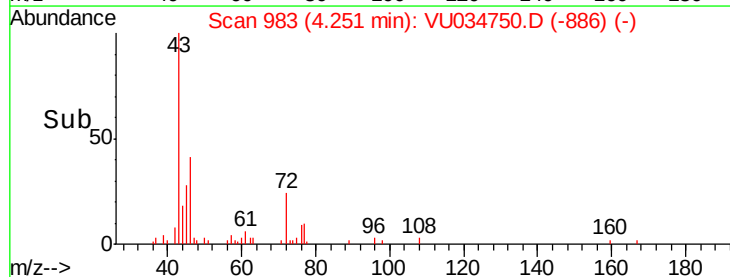
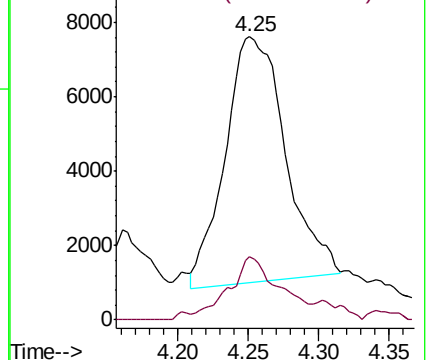
43 100

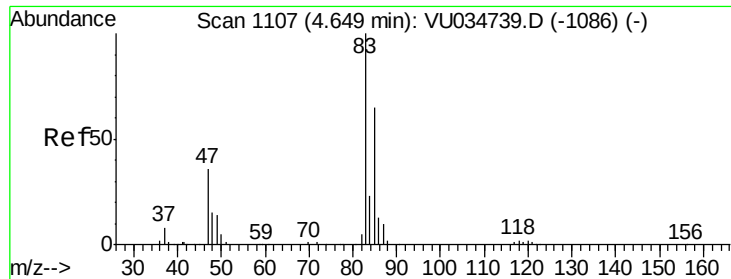
72 16.0 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU034739.D (-962) (-)





#25

Chloroform

Concen: 42.700 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

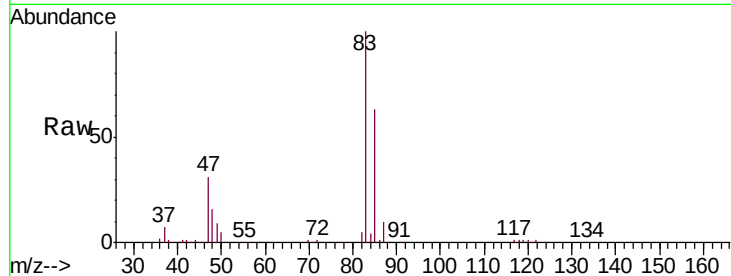
BFDG8

Tgt Ion: 83 Resp: 340900

Ion Ratio Lower Upper

83 100

85 63.1 44.0 81.6



Abundance Ion 83.00 (82.70 to 83.70): VU034739.D (-1086) (-)

Ion 85.00 (84.70 to 85.70): VU034739.D (-1086) (-)

4.65

150000

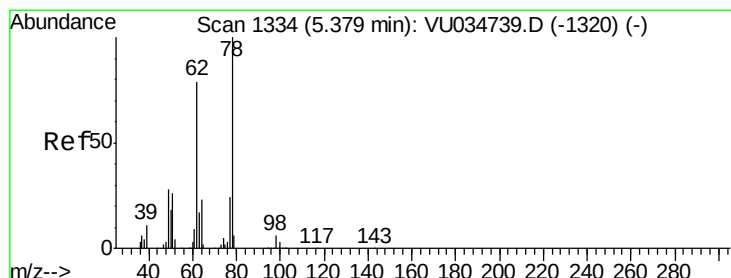
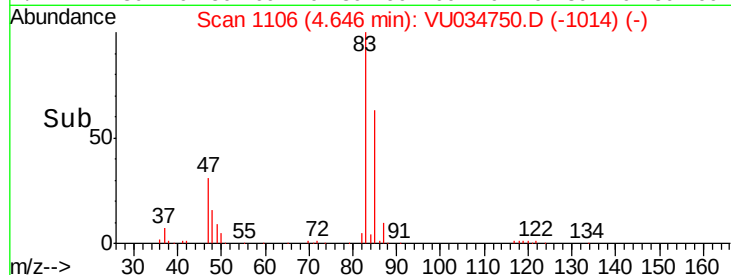
100000

50000

0

4.60 4.70

Time-->



#27

1,2-Dichloroethane

Concen: 1.267 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VU034750.D

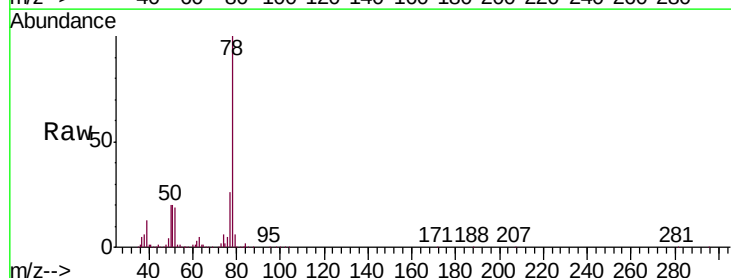
Acq: 23 Sep 2019 22:06

Tgt Ion: 62 Resp: 8739

Ion Ratio Lower Upper

62 100

98 7.4 5.3 7.9



Abundance Ion 62.00 (61.70 to 62.70): VU034739.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU034739.D (-1320) (-)

5.38

3000

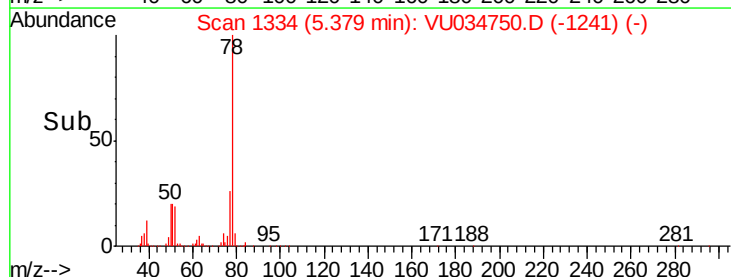
2000

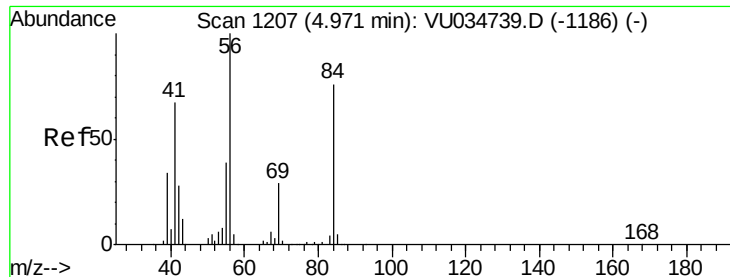
1000

0

5.35 5.40 5.45

Time-->

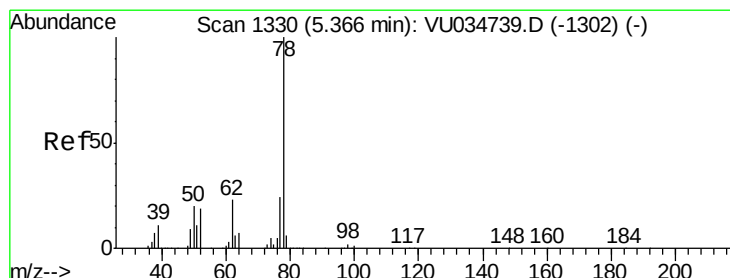
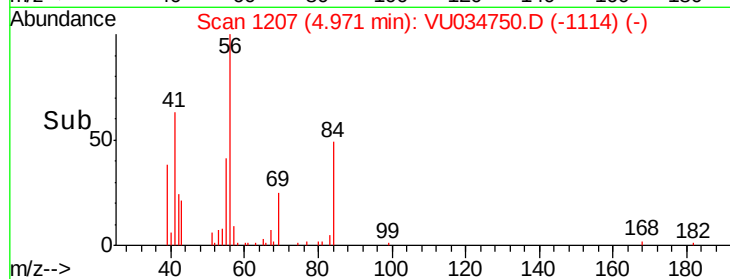
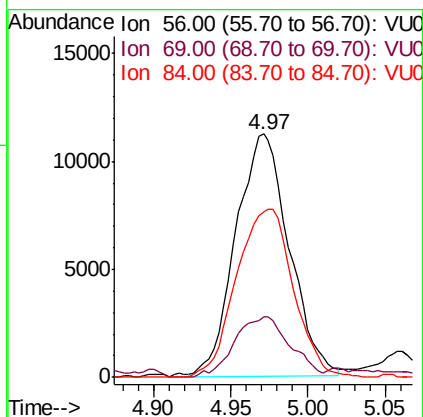
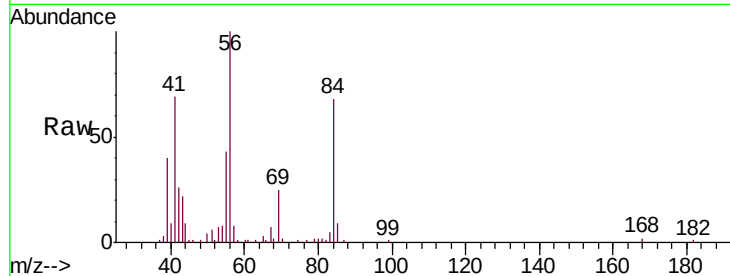




#29
Cyclohexane
Concen: 3.481 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034750.D
Acq: 23 Sep 2019 22:06

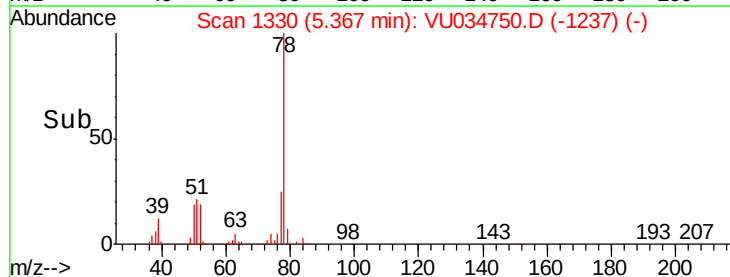
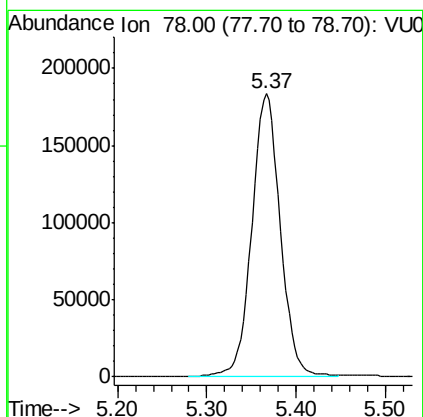
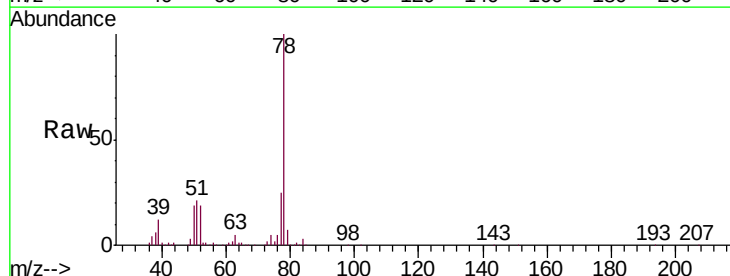
Instrument :
MSVOA_U
ClientSampleId :
BFDG8

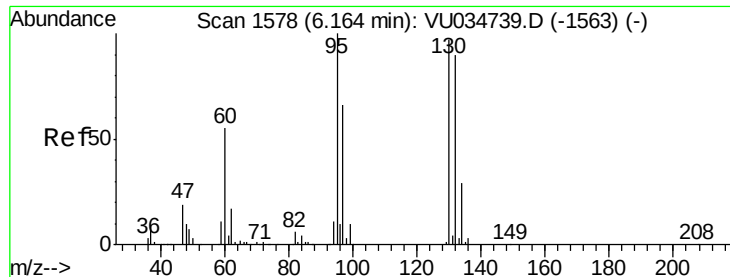
Tgt Ion: 56 Resp: 26852
Ion Ratio Lower Upper
56 100
69 25.7 21.7 32.5
84 74.4 58.8 88.2



#33
Benzene
Concen: 25.299 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034750.D
Acq: 23 Sep 2019 22:06

Tgt Ion: 78 Resp: 410105





#34

Trichloroethene

Concen: 17.930 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

BFDG8

Tgt Ion: 95 Resp: 71783

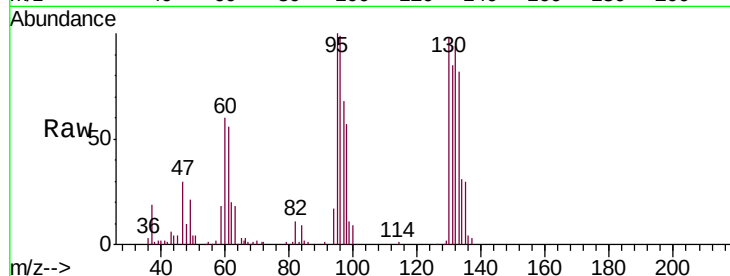
Ion Ratio Lower Upper

95 100

97 68.4 43.7 81.1

132 93.6 61.0 113.2

130 98.1 65.7 121.9

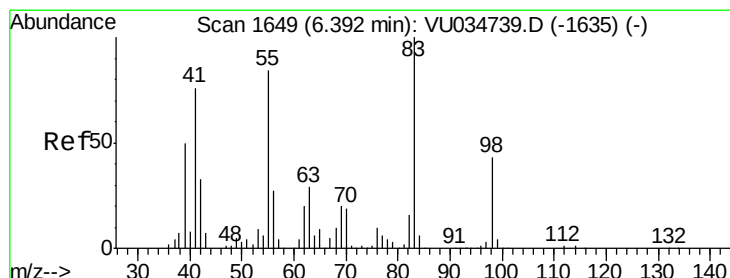
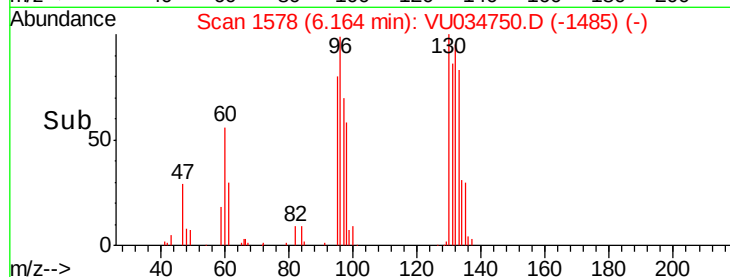
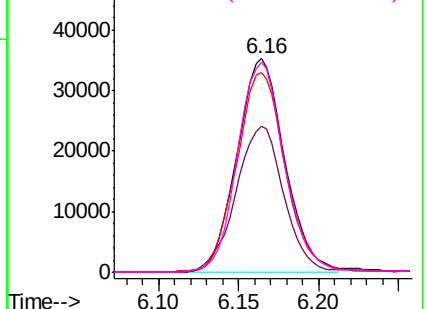


Abundance Ion 95.00 (94.70 to 95.70): VU0

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

Methylcyclohexane

Concen: 3.658 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

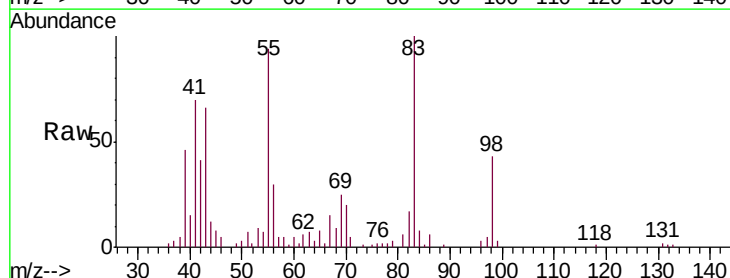
Tgt Ion: 83 Resp: 24850

Ion Ratio Lower Upper

83 100

55 88.3 71.6 107.4

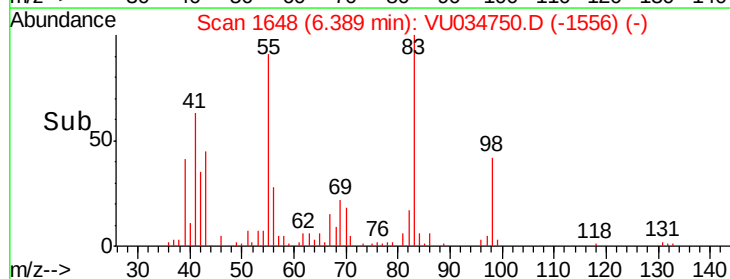
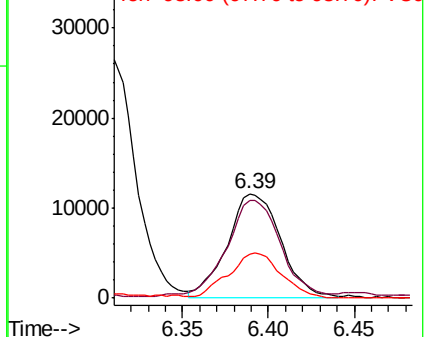
98 43.3 35.7 53.5

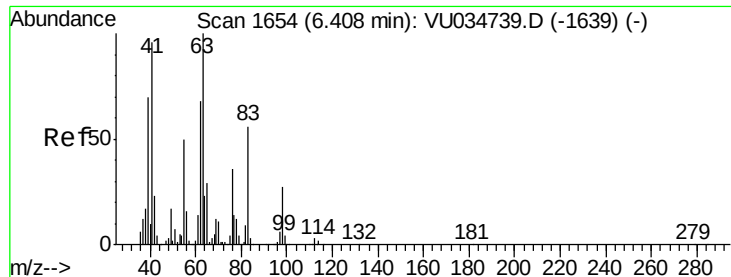


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

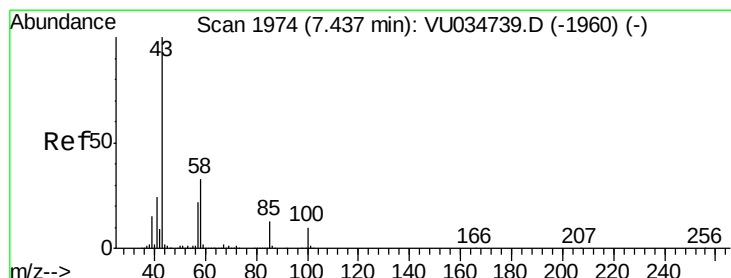
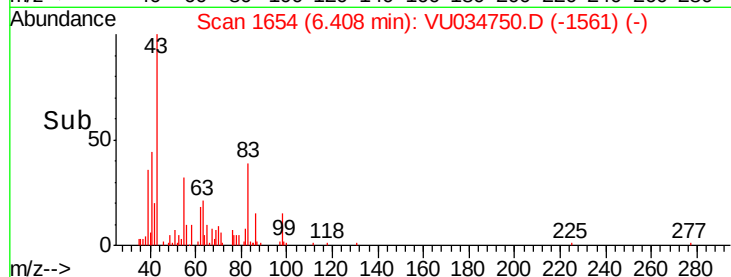
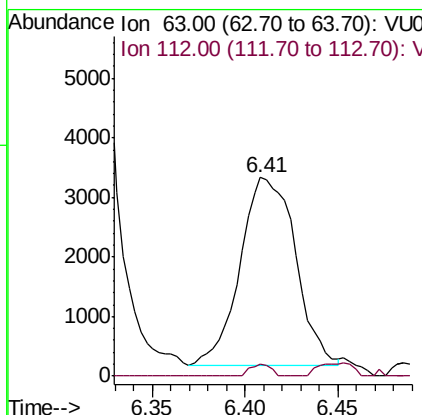
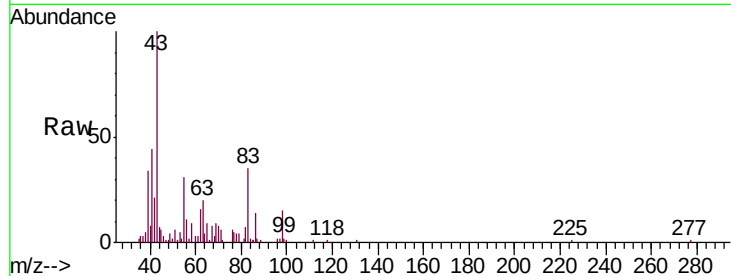




#37
 1,2-Dichloropropane
 Concen: 1.368 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VU034750.D
 Acq: 23 Sep 2019 22:06

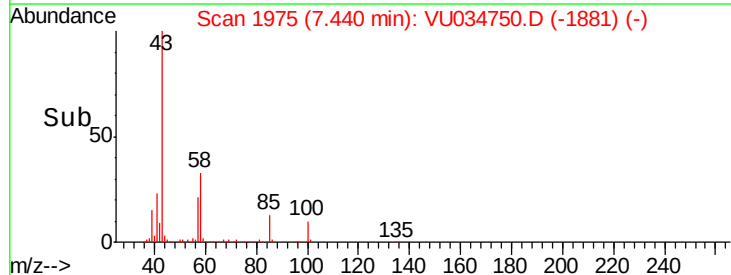
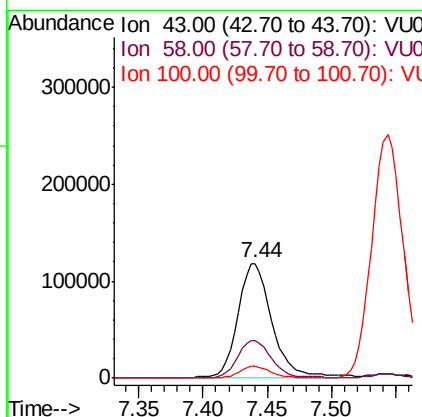
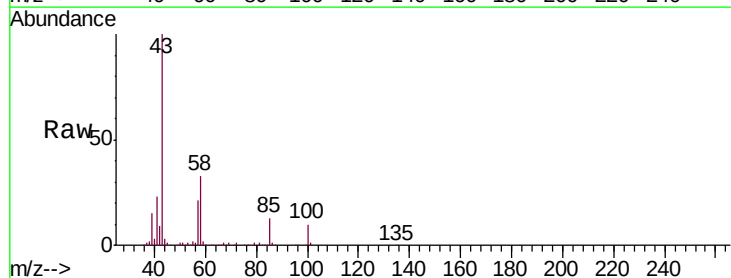
Instrument :
 MSVOA_U
 ClientSampled :
 BFDG8

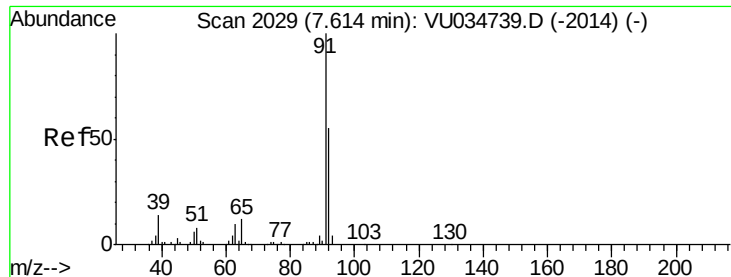
Tgt Ion: 63 Resp: 6602
 Ion Ratio Lower Upper
 63 100
 112 2.3 2.4 3.6#



#40
 4-Methyl-2-pentanone
 Concen: 22.919 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU034750.D
 Acq: 23 Sep 2019 22:06

Tgt Ion: 43 Resp: 211205
 Ion Ratio Lower Upper
 43 100
 58 33.0 25.2 37.8
 100 9.8 7.7 11.5





#42

Toluene

Concen: 128.089 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

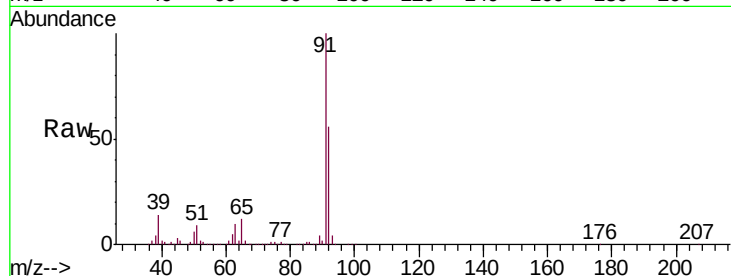
BFDG8

Tgt Ion: 91 Resp: 2243972

Ion Ratio Lower Upper

91 100

92 56.3 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034739.D (-2014) (-)

Ion 92.00 (91.70 to 92.70): VU034739.D (-2014) (-)

7.61

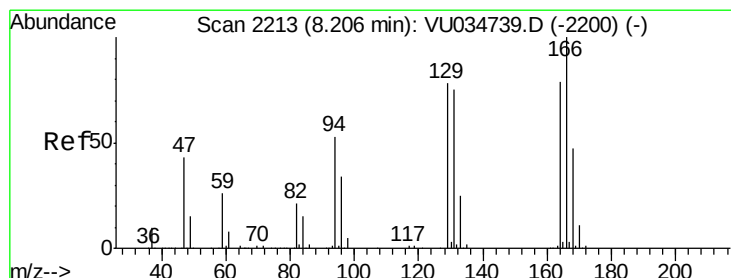
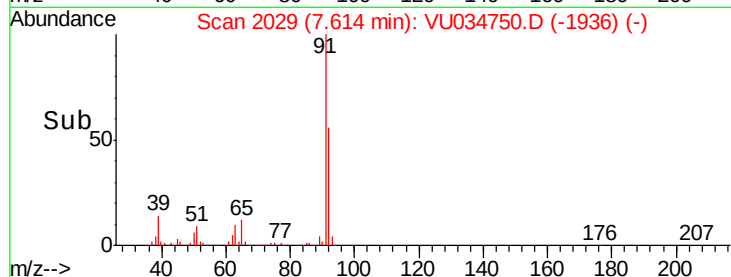
1500000

1000000

500000

0

Time-->



#46

Tetrachloroethene

Concen: 4.535 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Tgt Ion: 164 Resp: 12770

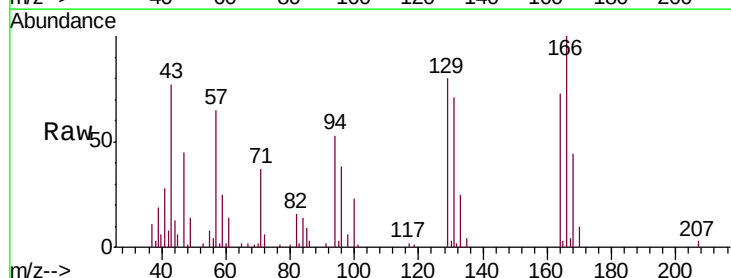
Ion Ratio Lower Upper

164 100

129 109.0 71.9 133.5

131 97.0 66.3 123.1

166 136.1 93.4 173.6



Abundance Ion 164.00 (163.70 to 164.70): VU034739.D (-2200) (-)

Ion 129.00 (128.70 to 129.70): VU034739.D (-2200) (-)

Ion 131.00 (130.70 to 131.70): VU034739.D (-2200) (-)

Ion 166.00 (165.70 to 166.70): VU034739.D (-2200) (-)

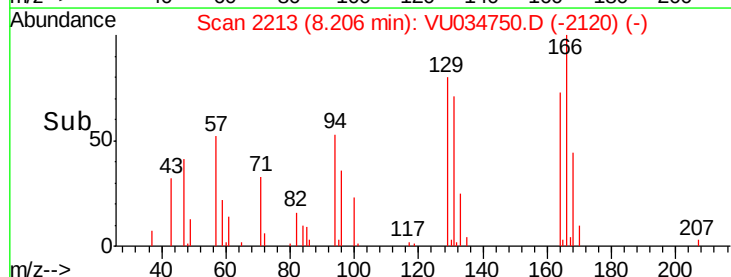
15000

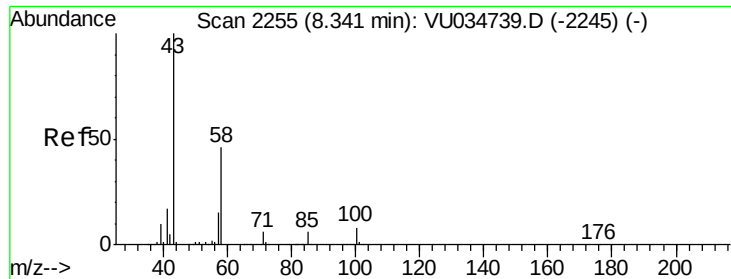
10000

5000

0

Time-->

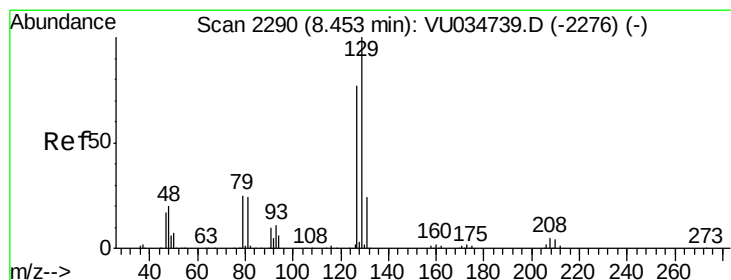
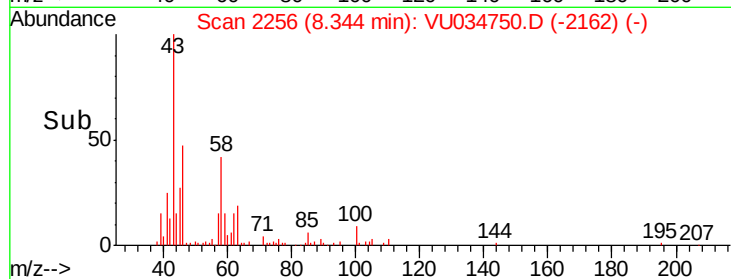
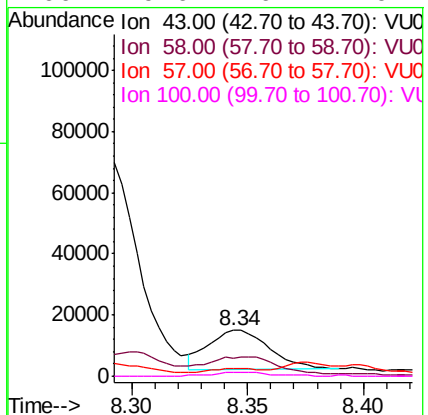
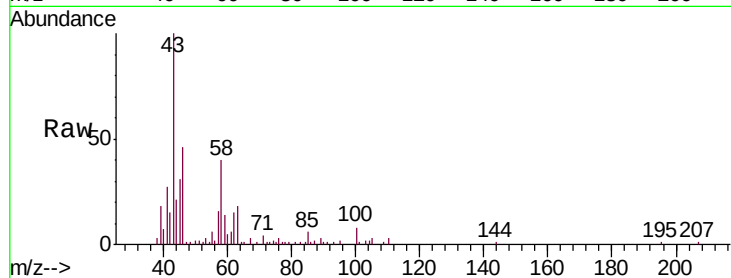




#48
2-Hexanone
Concen: 3.226 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034750.D
Acq: 23 Sep 2019 22:06

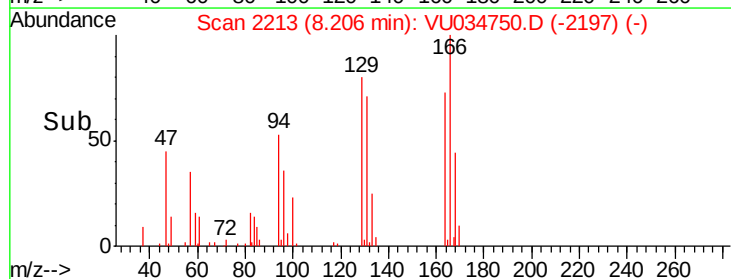
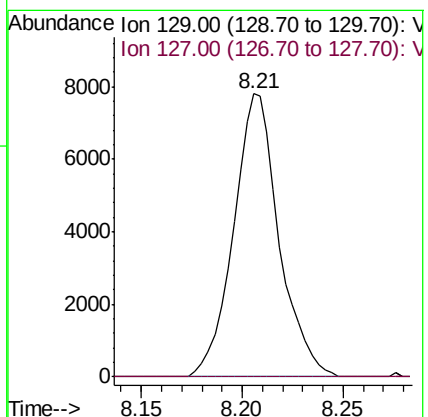
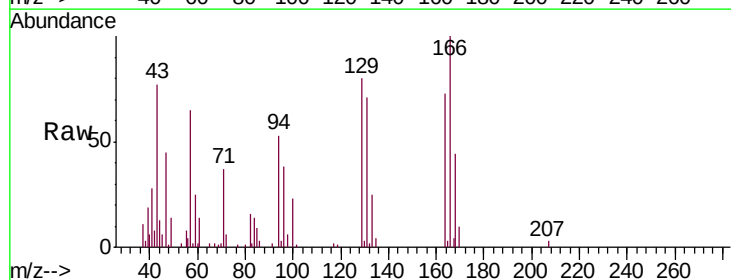
Instrument :
MSVOA_U
ClientSampleId :
BFDG8

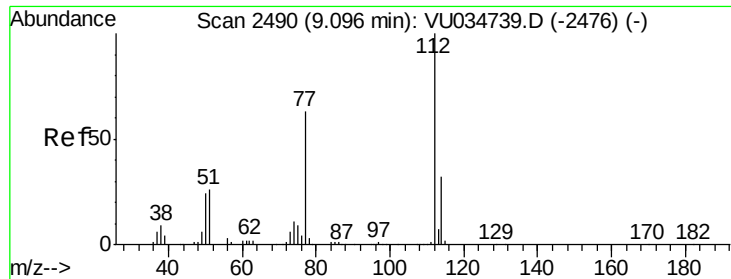
Tgt Ion: 43 Resp: 23217
Ion Ratio Lower Upper
43 100
58 5.1 35.3 52.9#
57 11.9 12.1 18.1#
100 9.6 6.2 9.4#



#49
Dibromochloromethane
Concen: 2.851 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. -0.25 min
Lab File: VU034750.D
Acq: 23 Sep 2019 22:06

Tgt Ion: 129 Resp: 12288
Ion Ratio Lower Upper
129 100
127 0.0 55.5 103.1#





#51

Chlorobenzene

Concen: 1.062 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

BFDG8

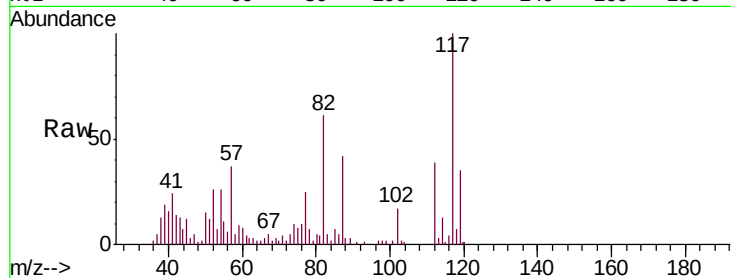
Tgt Ion: 112 Resp: 11311

Ion Ratio Lower Upper

112 100

114 33.3 22.8 42.4

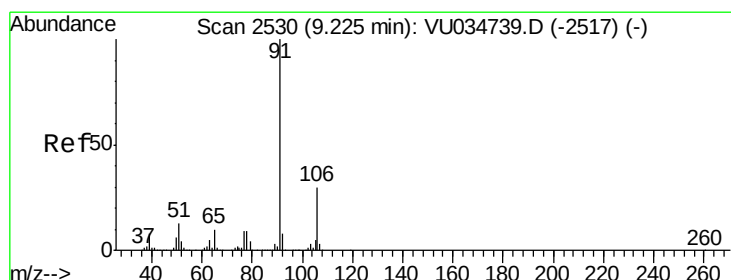
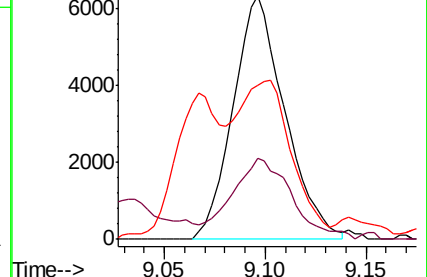
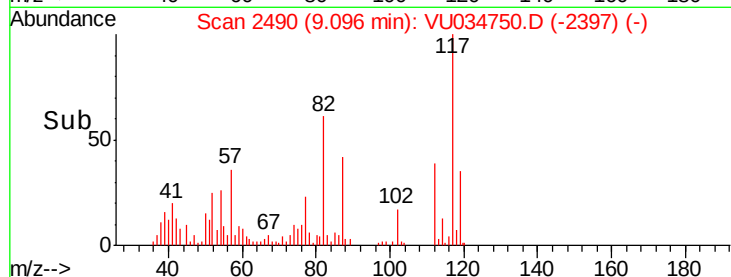
77 63.2 51.5 77.3



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 29.319 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034750.D

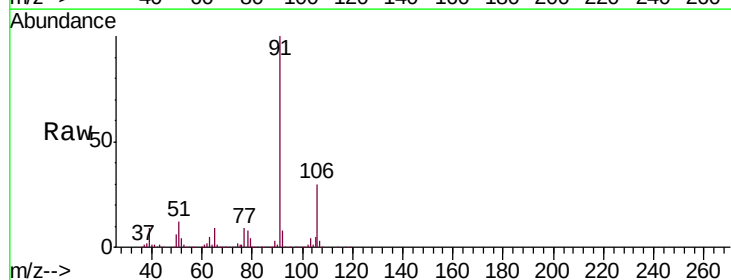
Acq: 23 Sep 2019 22:06

Tgt Ion: 91 Resp: 578399

Ion Ratio Lower Upper

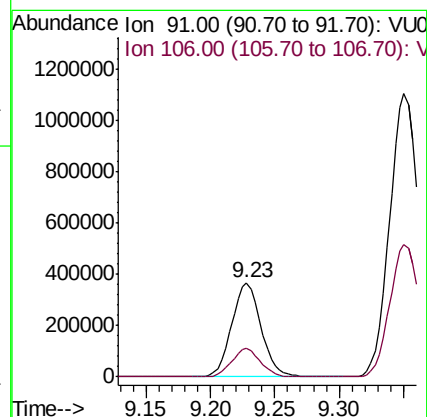
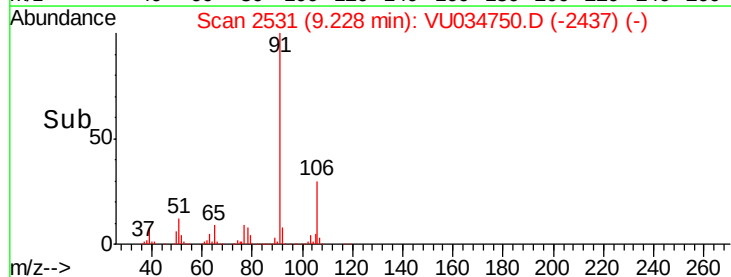
91 100

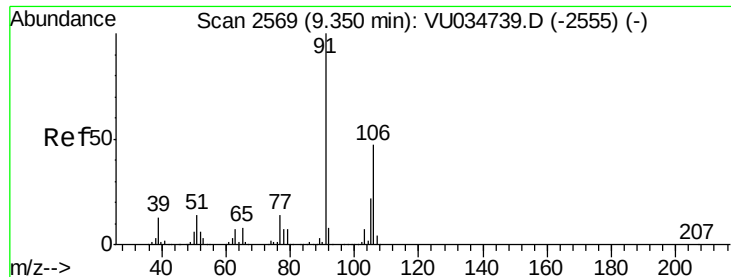
106 30.1 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 120.733 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

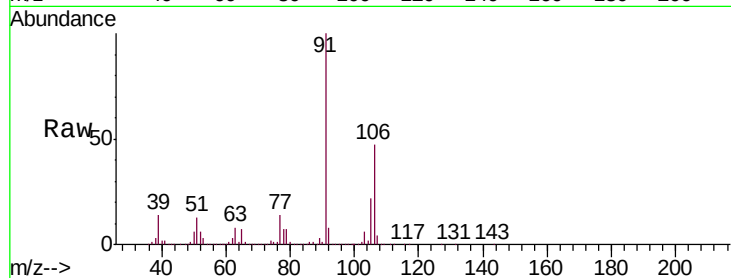
BFDG8

Tgt Ion:106 Resp: 843618

Ion Ratio Lower Upper

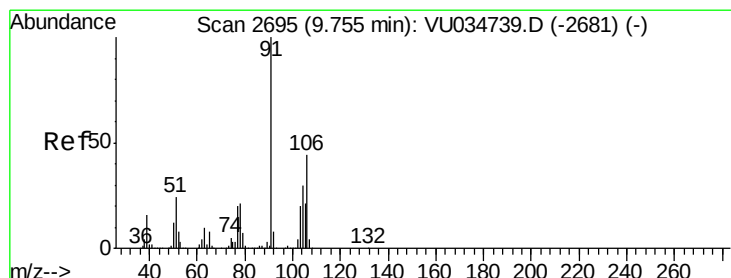
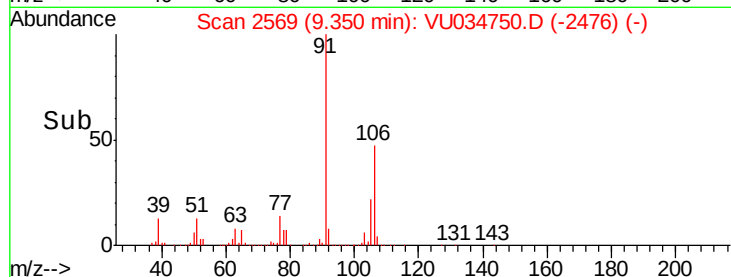
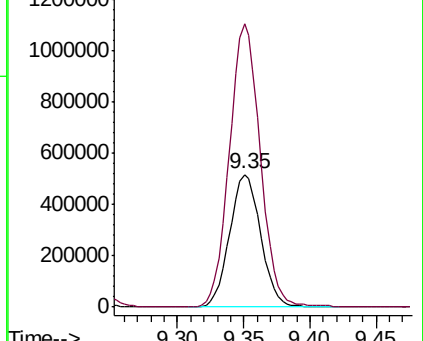
106 100

91 213.0 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 74.727 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034750.D

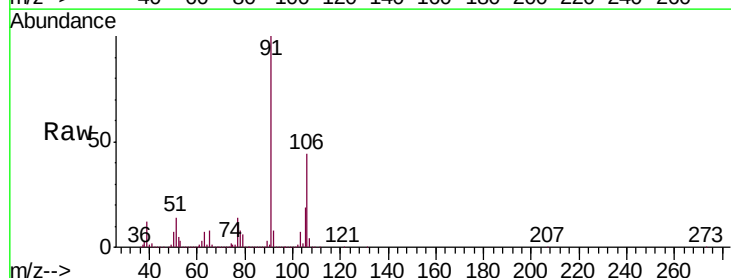
Acq: 23 Sep 2019 22:06

Tgt Ion:106 Resp: 516448

Ion Ratio Lower Upper

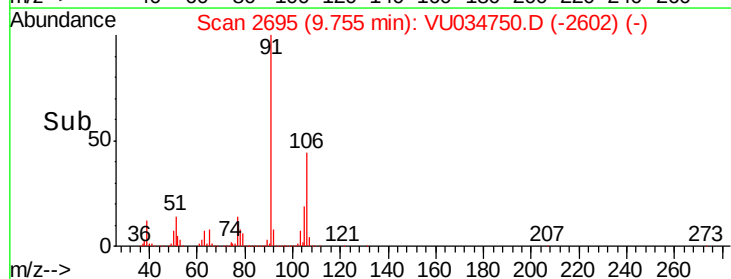
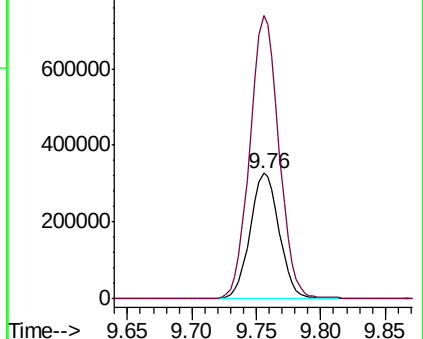
106 100

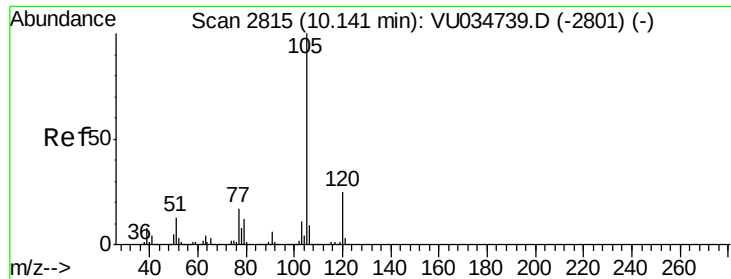
91 225.3 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 3.277 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

BFDG8

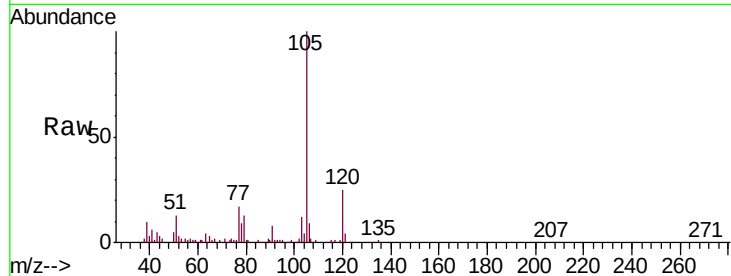
Tgt Ion:105 Resp: 61065

Ion Ratio Lower Upper

105 100

120 24.3 20.4 30.6

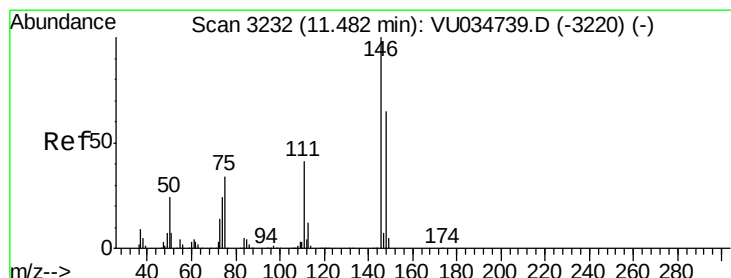
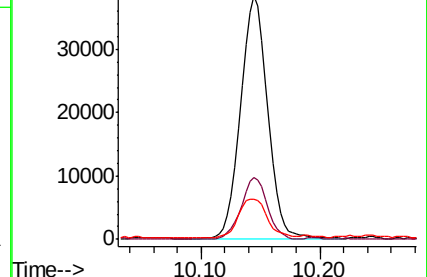
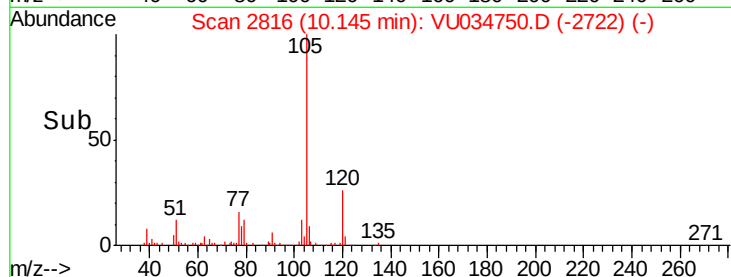
77 16.9 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#63

1,4-Dichlorobenzene

Concen: 1.633 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

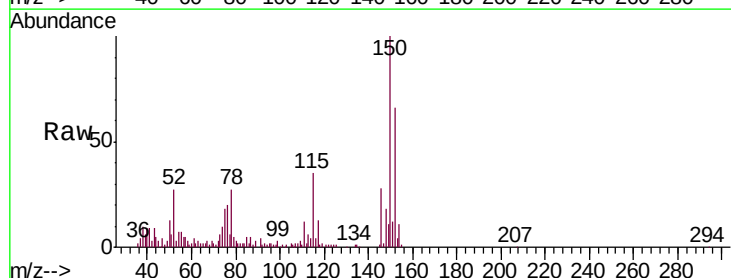
Tgt Ion:146 Resp: 12931

Ion Ratio Lower Upper

146 100

111 44.3 29.5 54.9

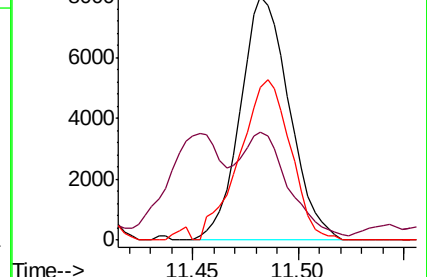
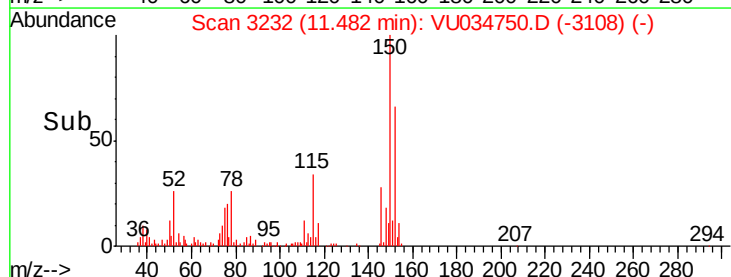
148 62.9 44.4 82.4

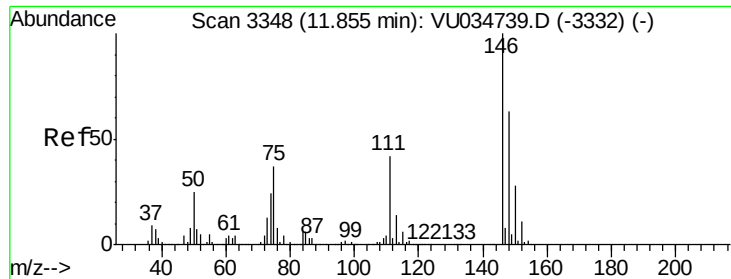


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 11.381 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

Instrument :

MSVOA_U

ClientSampleId :

BFDG8

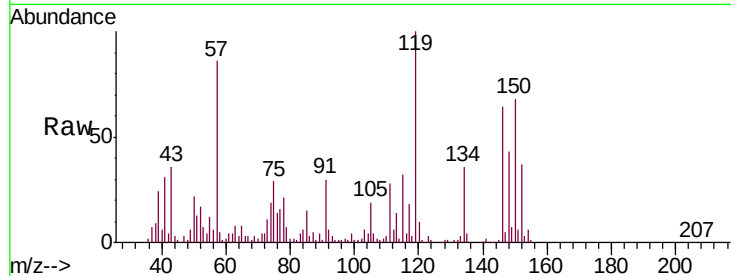
Tgt Ion:146 Resp: 89395

Ion Ratio Lower Upper

146 100

111 43.1 35.2 52.8

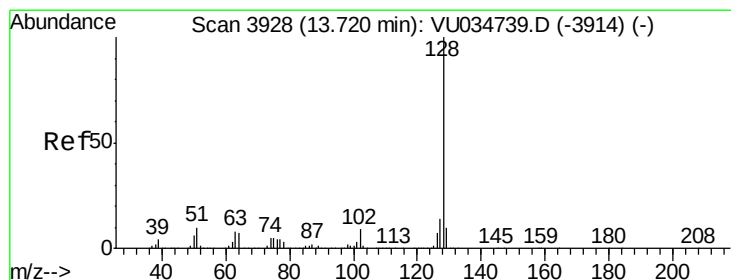
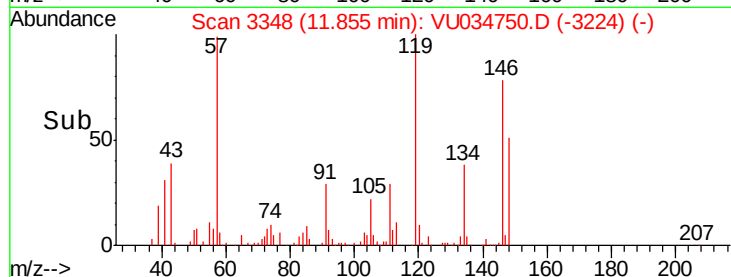
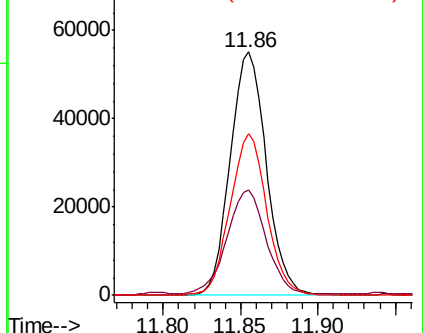
148 66.6 53.0 79.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 134.388 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034750.D

Acq: 23 Sep 2019 22:06

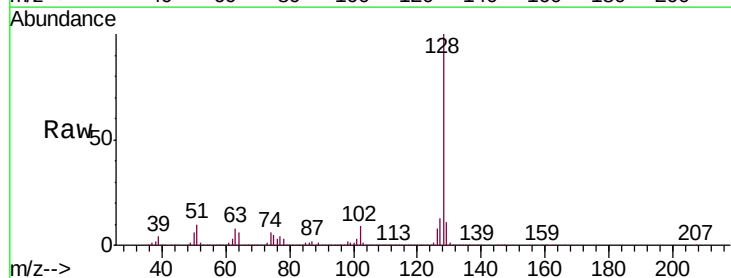
Tgt Ion:128 Resp: 1905586

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

