

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062818\
 Data File : VU025017.D
 Acq On : 28 Jun 2018 13:51
 Operator : MD/SY
 Sample : J3671-09ME
 Misc : 7.10µ/5.0mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB478-25-27-180621ME

Quant Time: Jun 29 05:53:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	219471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	332946	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	311754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	176897	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	169315	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	
35) Dibromofluoromethane	4.89	113	129171	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
50) Toluene-d8	7.57	98	484691	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
62) 4-Bromofluorobenzene	10.31	95	184889	46.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.40%	

Target Compounds

						Qvalue
4) Vinyl Chloride	1.40	62	3689	1.27	ug/l	98
12) 1,1-Dichloroethene	2.28	96	3092	1.24	ug/l	92
21) trans-1,2-Dichloroethene	2.99	96	1620	0.59	ug/l	89
27) cis-1,2-Dichloroethene	4.23	96	640053	202.27	ug/l	89
39) Methylcyclohexane	6.42	83	9669	1.98	ug/l #	84
44) Trichloroethene	6.19	130	52113	16.43	ug/l	100
52) Toluene	7.64	92	1537	0.21	ug/l	78
65) Chlorobenzene	9.12	112	2159	0.27	ug/l	98
67) Ethyl Benzene	9.26	91	5400	0.39	ug/l	94
68) m/p-Xylenes	9.38	106	7523	1.40	ug/l	100
78) n-propylbenzene	10.59	91	5851	0.37	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	14465	1.23	ug/l	98
84) 1,2,4-Trimethylbenzene	11.15	105	34834	2.90	ug/l	98
85) sec-Butylbenzene	11.33	105	5972	0.42	ug/l	99
86) p-Isopropyltoluene	11.48	119	5010	0.39	ug/l	80
87) 1,3-Dichlorobenzene	11.42	146	2093	0.33	ug/l	93
88) 1,4-Dichlorobenzene	11.42	146	2093	0.33	ug/l	93
89) n-Butylbenzene	11.89	91	16180	1.44	ug/l #	43
91) 1,2-Dichlorobenzene	11.89	146	6409	1.01	ug/l	97
95) Naphthalene	13.75	128	16405	1.92	ug/l	98

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062818\  
Data File : VU025017.D  
Acq On    : 28 Jun 2018   13:51  
Operator  : MD/SY  
Sample    : J3671-09ME  
Misc      : 7.10µ/5.0mL/100µL/5.0mL/MSVOA_U/MEOH  
ALS Vial  : 11      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

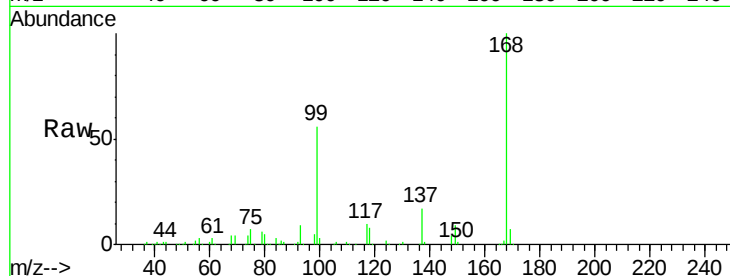
WP021SB478-25-27-180621ME

Tot Ion:168 Resp: 219471

Ion Ratio Lower Upper

168 100

99 56.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0

4.99

100000

80000

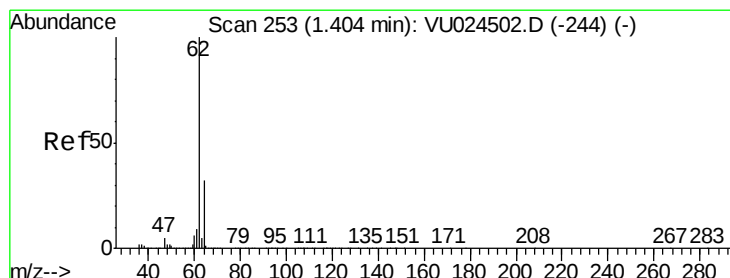
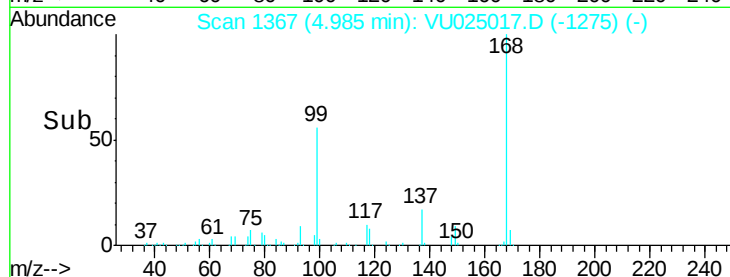
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 1.27 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025017.D

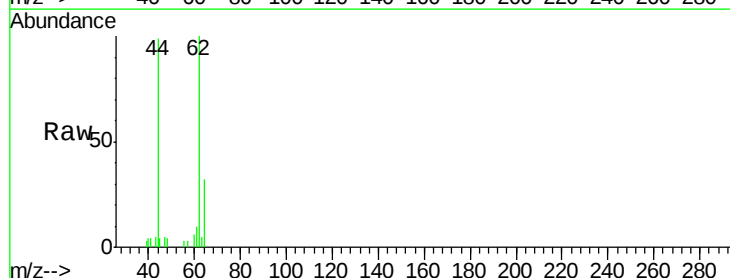
Acq: 28 Jun 2018 13:51

Tgt Ion: 62 Resp: 3689

Ion Ratio Lower Upper

62 100

64 31.9 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

4000

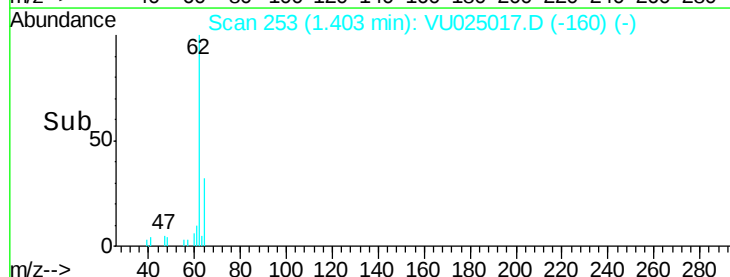
3000

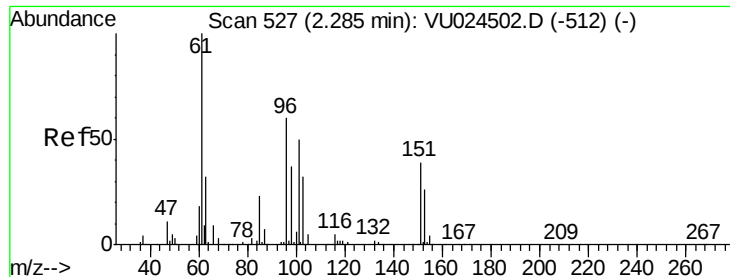
2000

1000

0

Time-->





#12

1,1-Dichloroethene

Concen: 1.24 ug/l

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

WP021SB478-25-27-180621ME

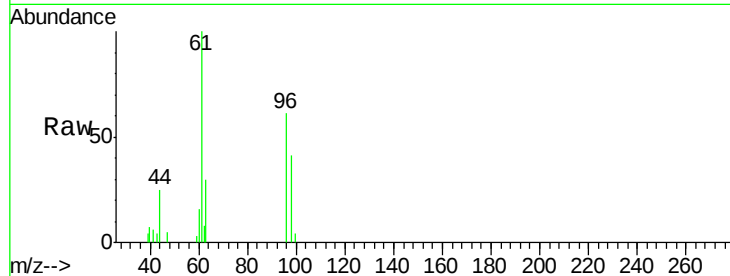
Tot Ion: 96 Resp: 3092

Ion Ratio Lower Upper

96 100

61 162.8 141.7 212.5

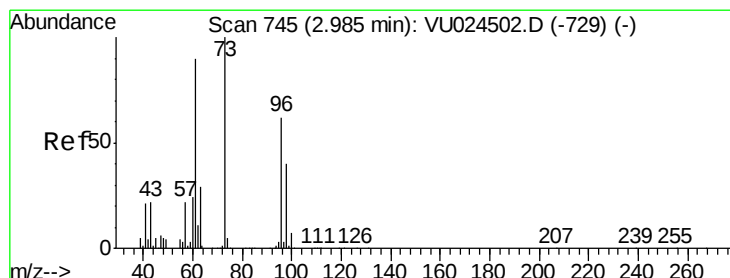
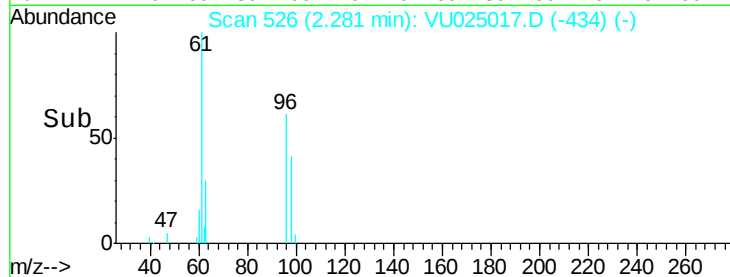
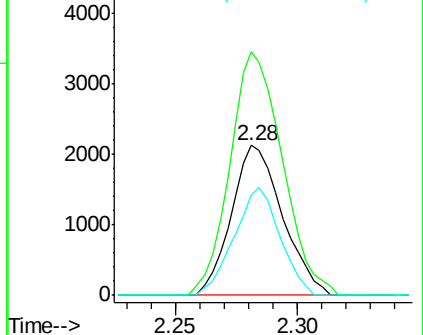
98 67.1 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.59 ug/l

RT: 2.99 min Scan# 747

Delta R.T. 0.01 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

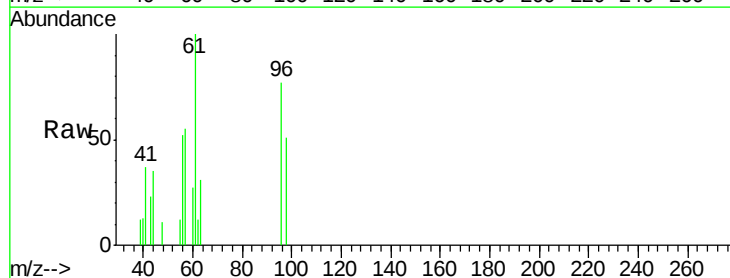
Tgt Ion: 96 Resp: 1620

Ion Ratio Lower Upper

96 100

61 129.7 119.4 179.0

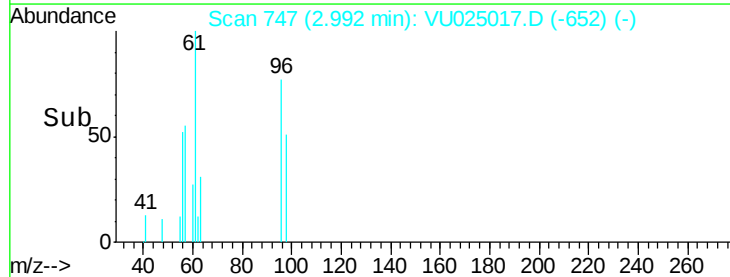
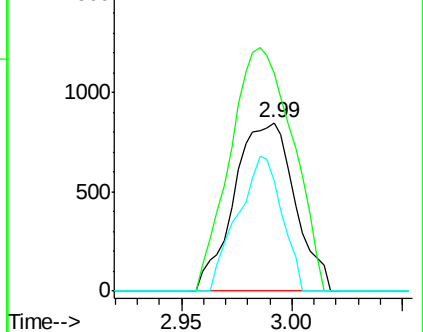
98 65.6 51.1 76.7

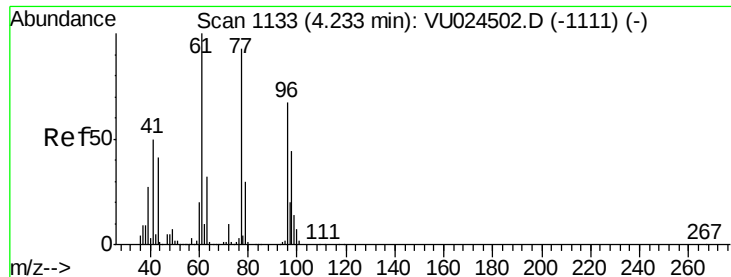


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 202.27 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

WP021SB478-25-27-180621ME

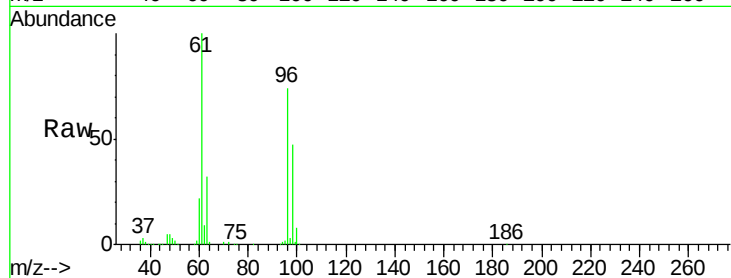
Tot Ion: 96 Resp: 640053

Ion Ratio Lower Upper

96 100

61 133.6 0.0 306.6

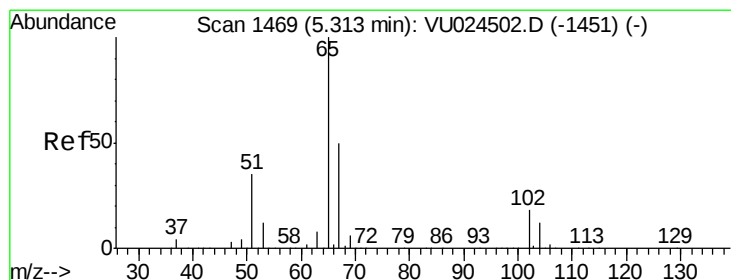
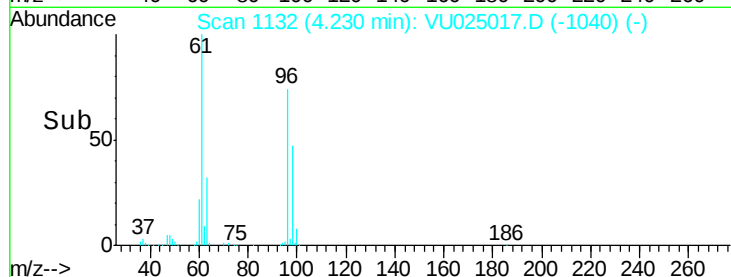
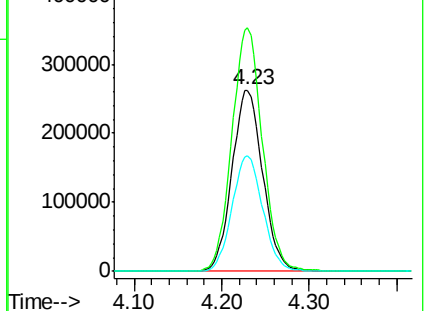
98 63.8 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#33

1,2-Dichloroethane-d4

Concen: 47.26 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025017.D

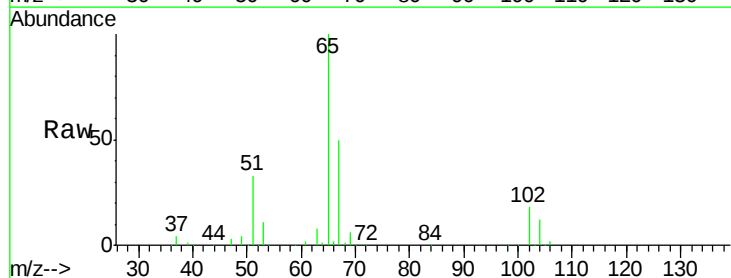
Acq: 28 Jun 2018 13:51

Tgt Ion: 65 Resp: 169315

Ion Ratio Lower Upper

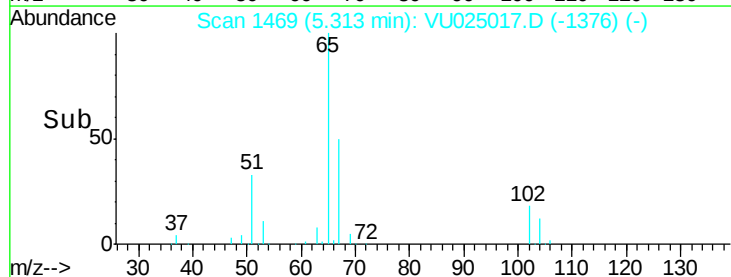
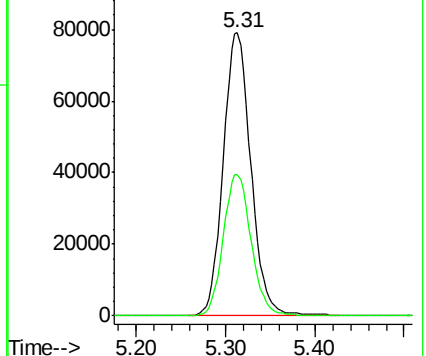
65 100

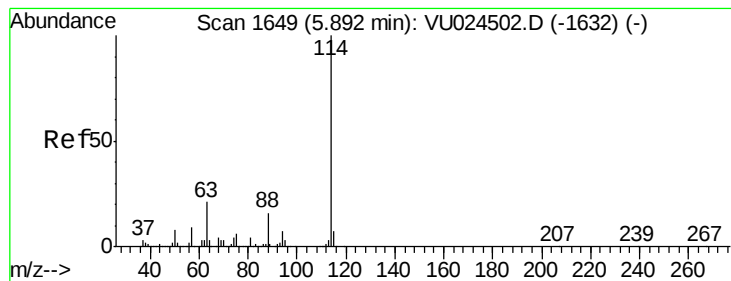
67 50.6 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

WP021SB478-25-27-180621ME

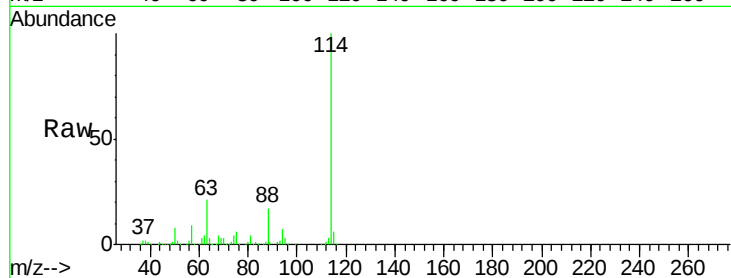
Tot Ion:114 Resp: 332946

Ion Ratio Lower Upper

114 100

63 20.7 0.0 45.4

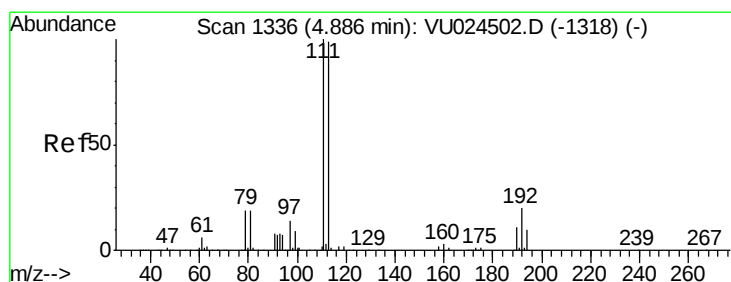
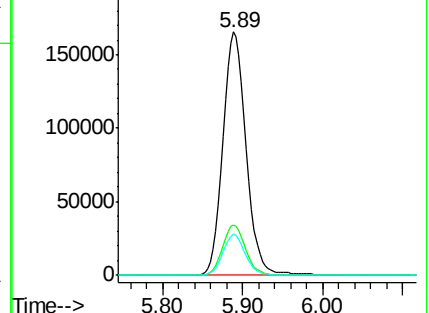
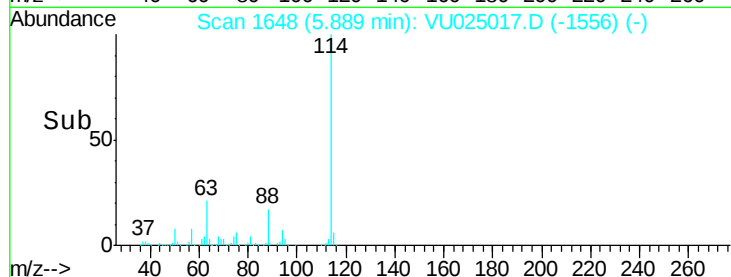
88 16.8 0.0 31.0



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: 46.75 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

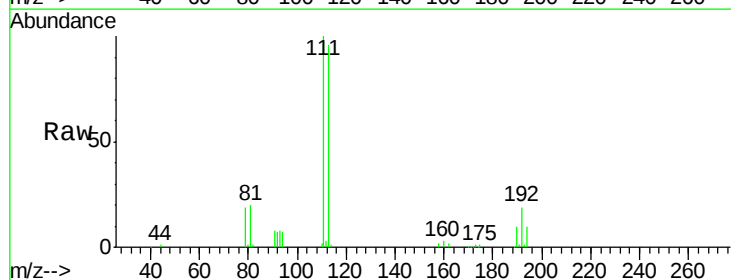
Tgt Ion:113 Resp: 129171

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.4

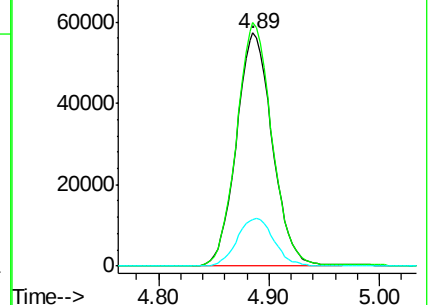
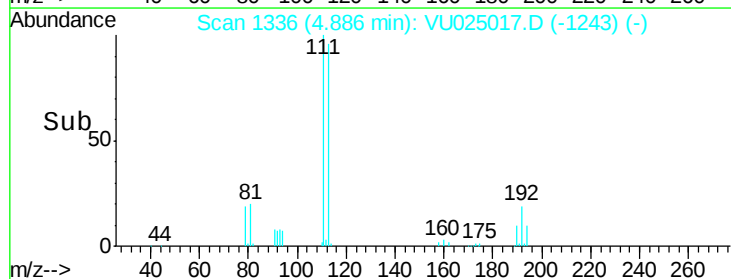
192 21.2 16.2 24.4

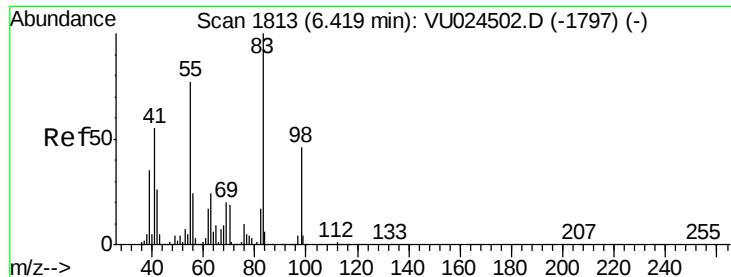


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

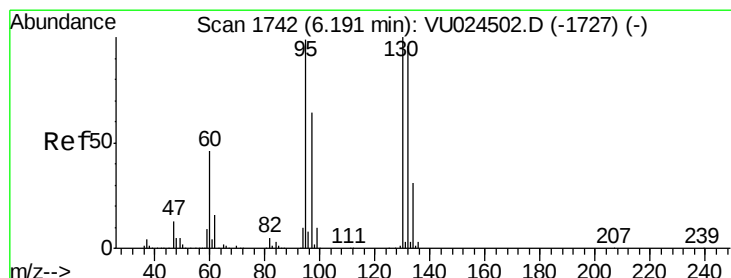
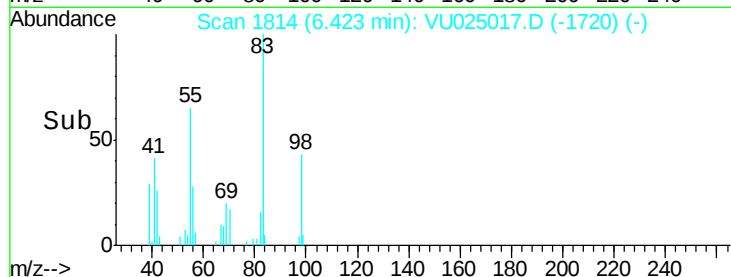
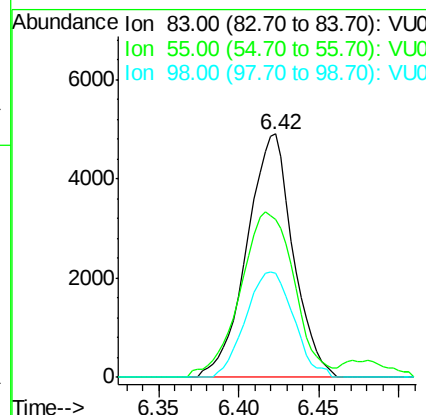
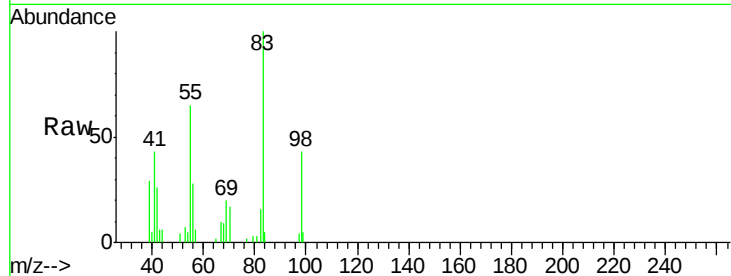




#39
Methvlcvclohexane
Concen: 1.98 ug/l
RT: 6.42 min Scan# 1814
Delta R.T. 0.00 min
Lab File: VU025017.D
Acq: 28 Jun 2018 13:51

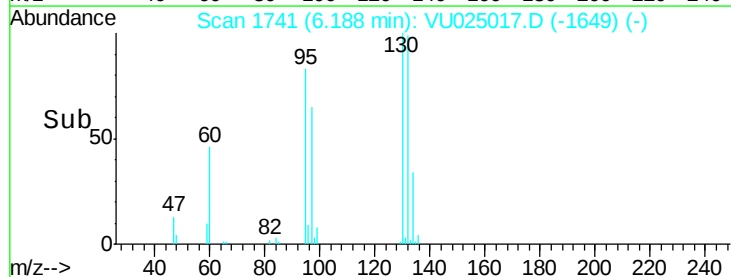
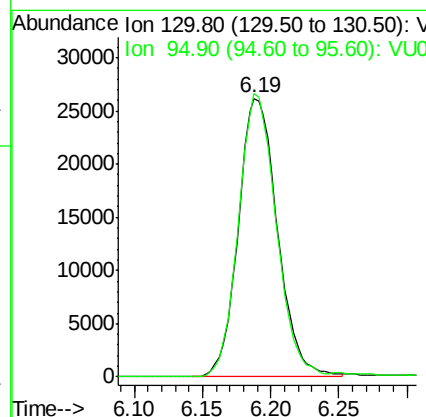
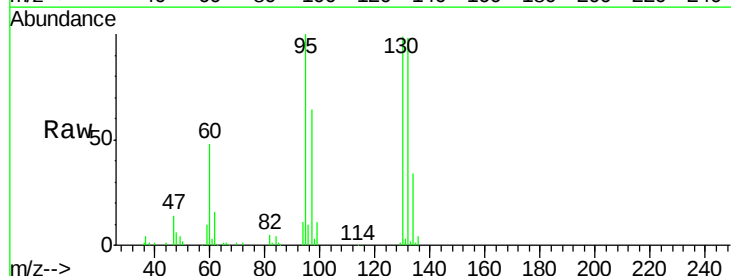
Instrument :
MSVOA_U
ClientSampleId :
WP021SB478-25-27-180621ME

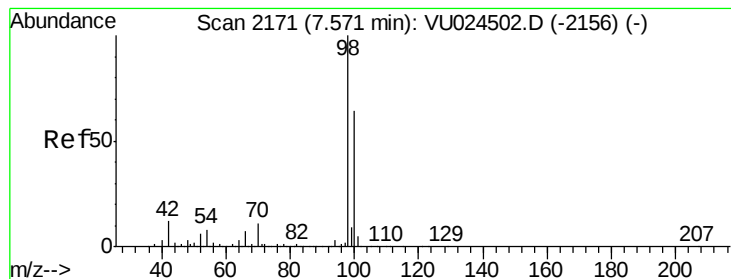
Tot Ion: 83 Resp: 9669
Ion Ratio Lower Upper
83 100
55 61.9 65.8 98.6#
98 42.6 36.7 55.1



#44
Trichloroethene
Concen: 16.43 ug/l
RT: 6.19 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VU025017.D
Acq: 28 Jun 2018 13:51

Tgt Ion:130 Resp: 52113
Ion Ratio Lower Upper
130 100
95 101.5 0.0 202.4





#50

Toluene-d8

Concen: 48.09 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

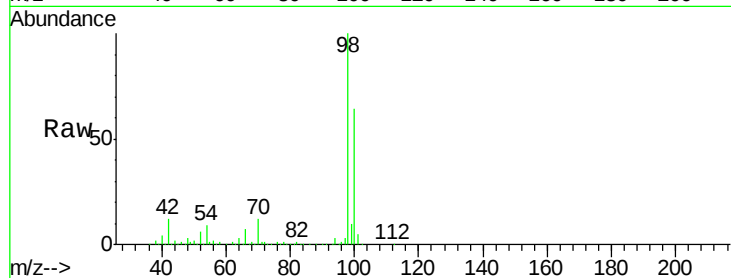
WP021SB478-25-27-180621ME

Tot Ion: 98 Resp: 484691

Ion Ratio Lower Upper

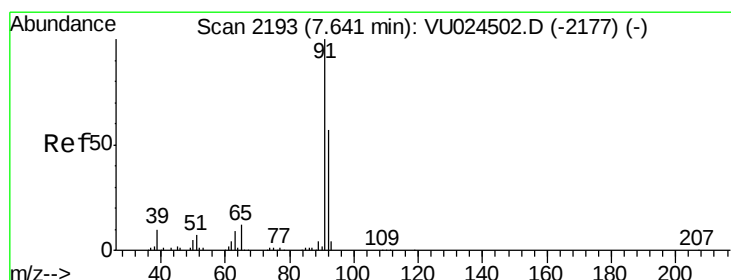
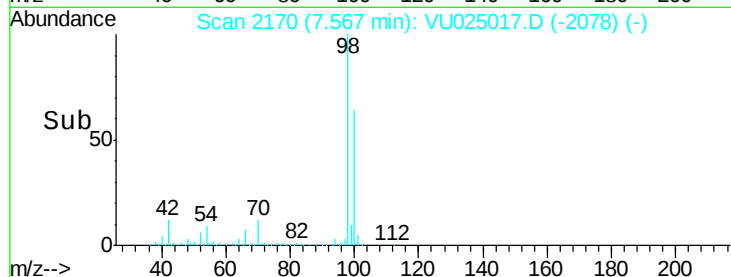
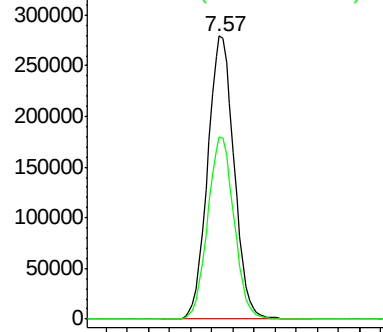
98 100

100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU



#52

Toluene

Concen: 0.21 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU025017.D

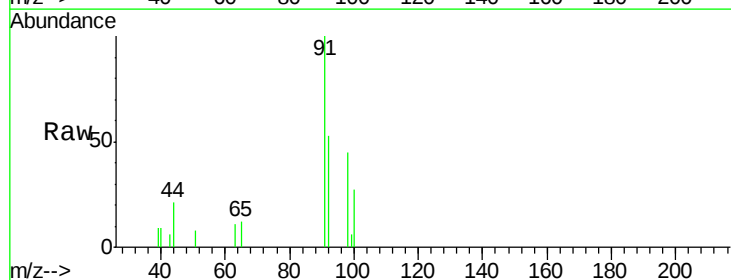
Acq: 28 Jun 2018 13:51

Tgt Ion: 92 Resp: 1537

Ion Ratio Lower Upper

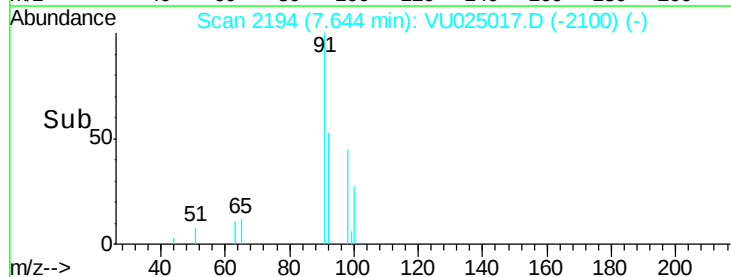
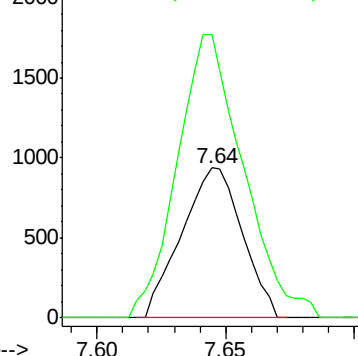
92 100

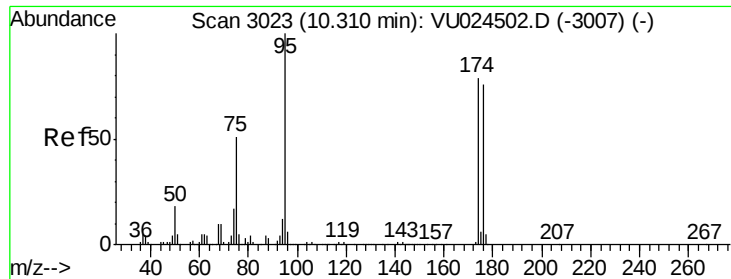
91 205.8 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





#62

4-Bromofluorobenzene

Concen: 46.20 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

WP021SB478-25-27-180621ME

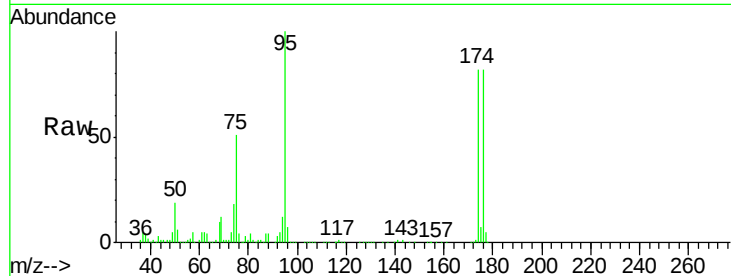
Tot Ion: 95 Resp: 184889

Ion Ratio Lower Upper

95 100

174 83.9 0.0 165.8

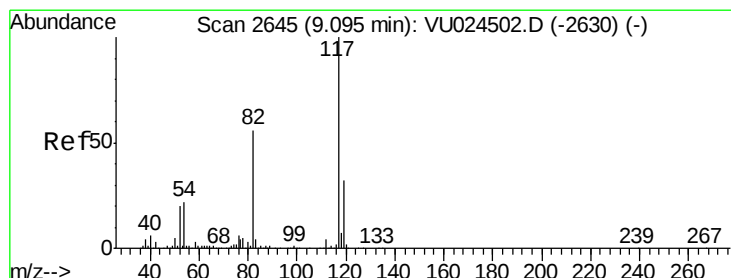
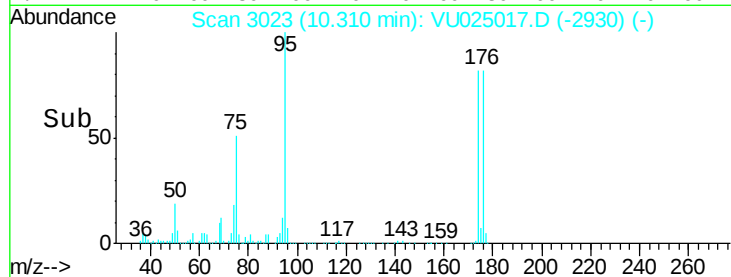
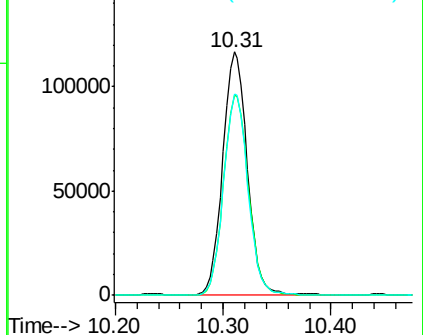
176 82.7 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

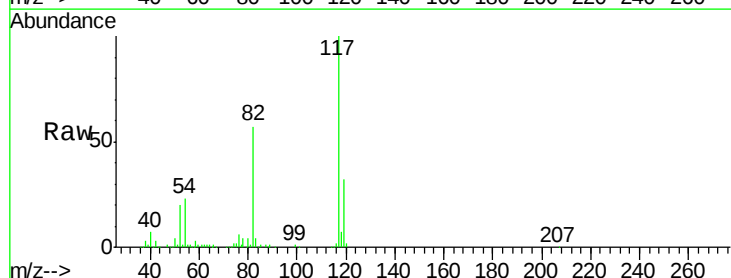
Tgt Ion: 117 Resp: 311754

Ion Ratio Lower Upper

117 100

82 56.9 44.3 66.5

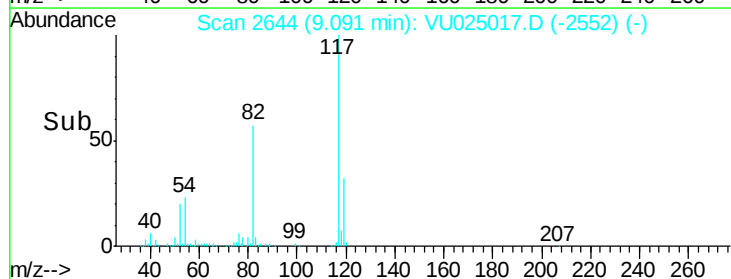
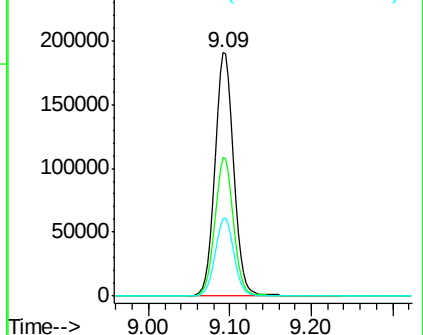
119 31.6 25.4 38.2

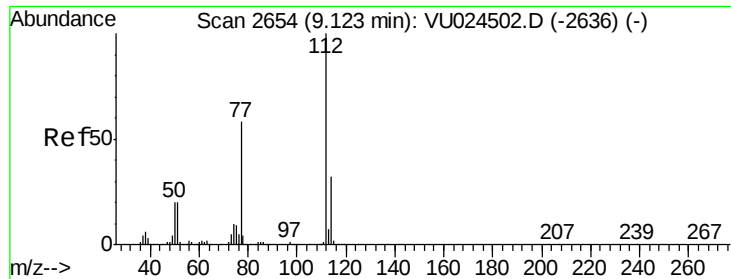


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0

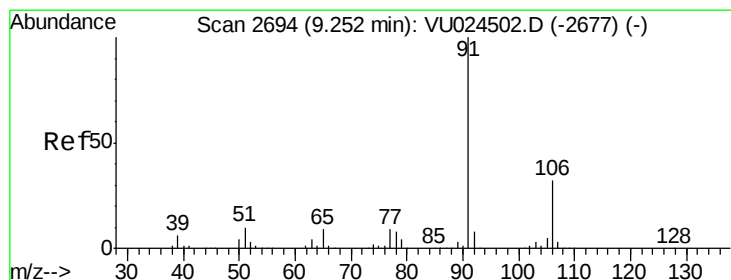
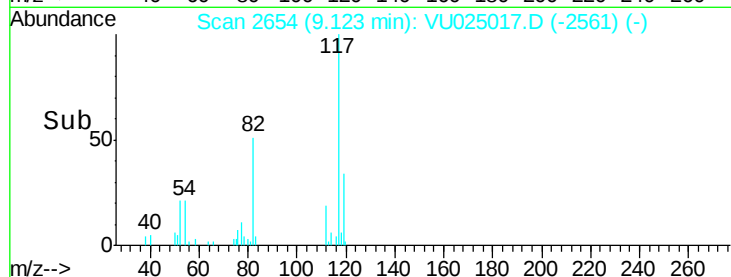
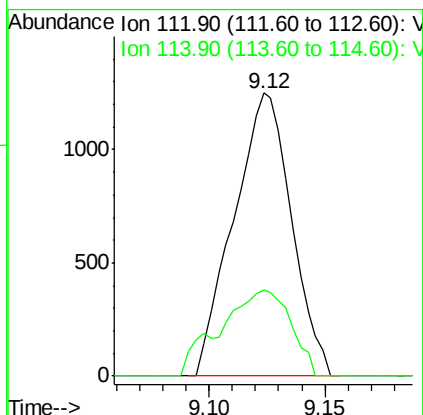
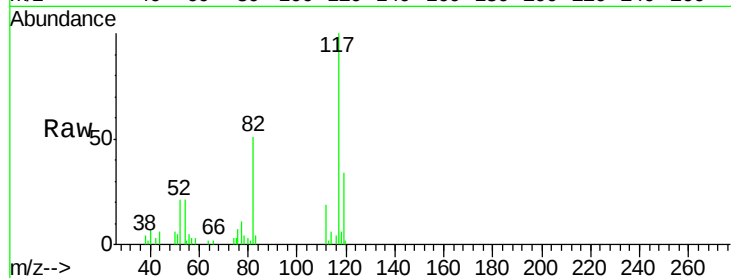




#65
Chlorobenzene
Concen: 0.27 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU025017.D
Acq: 28 Jun 2018 13:51

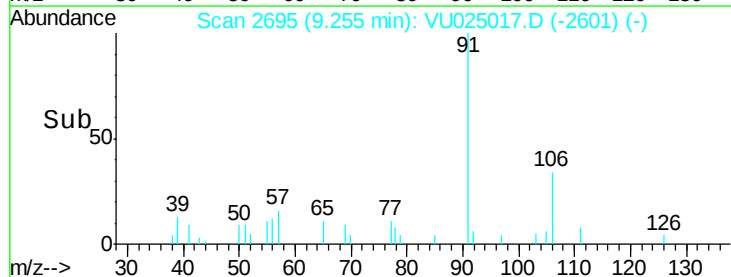
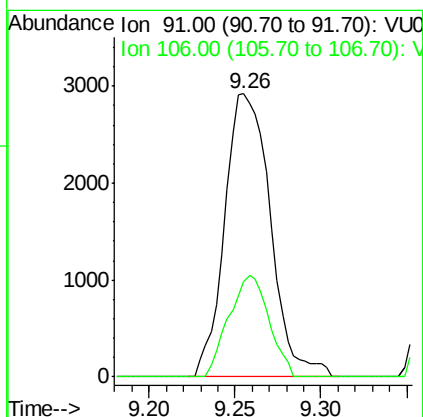
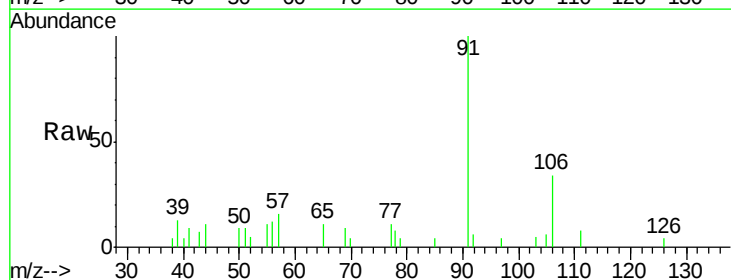
Instrument :
MSVOA_U
ClientSampleId :
WP021SB478-25-27-180621ME

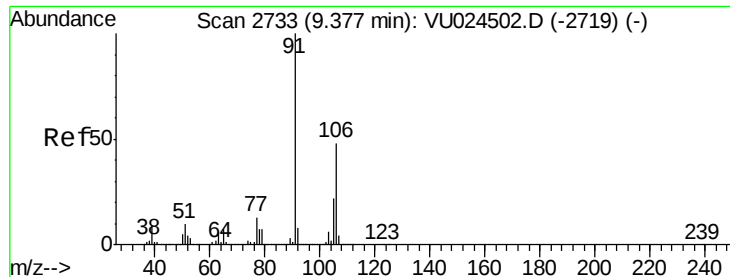
Tot Ion:112 Resp: 2159
Ion Ratio Lower Upper
112 100
114 30.6 25.6 38.4



#67
Ethyl Benzene
Concen: 0.39 ug/l
RT: 9.26 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU025017.D
Acq: 28 Jun 2018 13:51

Tgt Ion: 91 Resp: 5400
Ion Ratio Lower Upper
91 100
106 33.7 24.2 36.4

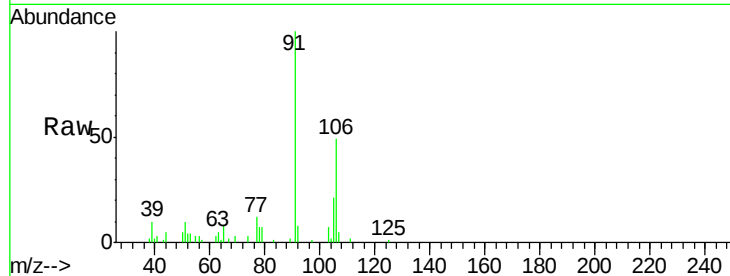




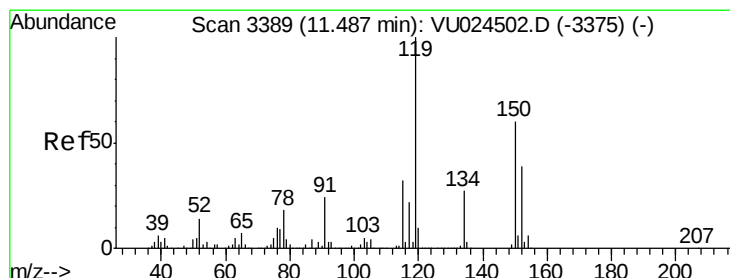
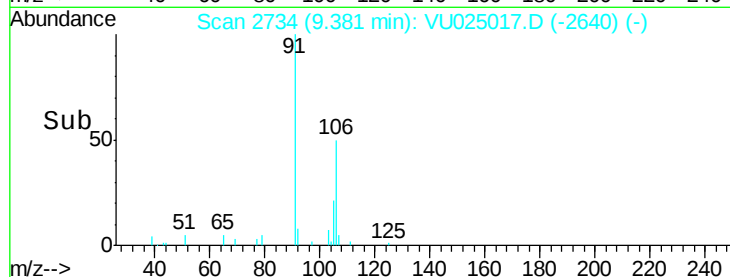
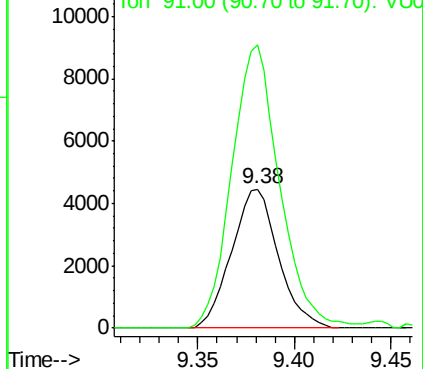
#68
m/p-Xvlenes
Concen: 1.40 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025017.D
Acq: 28 Jun 2018 13:51

Instrument :
MSVOA_U
ClientSampleId :
WP021SB478-25-27-180621ME

Tot Ion:106 Resp: 7523
Ion Ratio Lower Upper
106 100
91 207.6 166.5 249.7

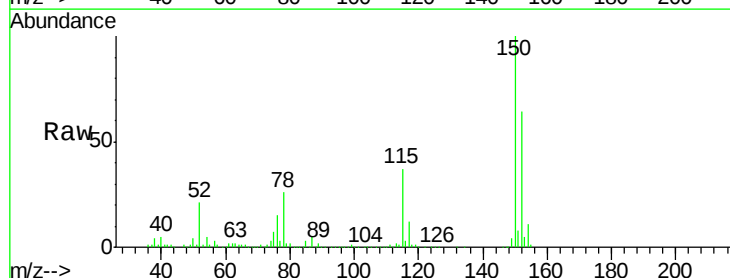


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

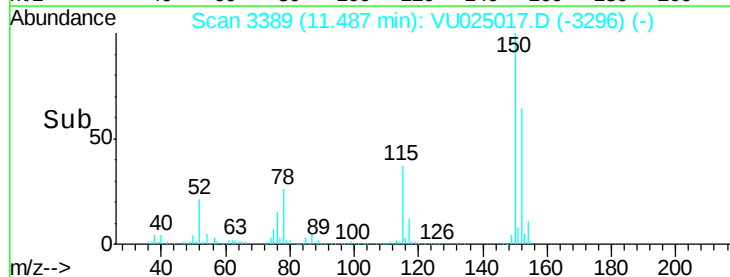
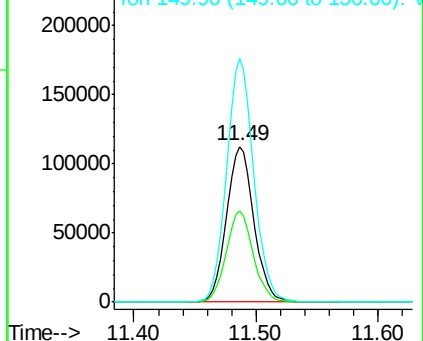


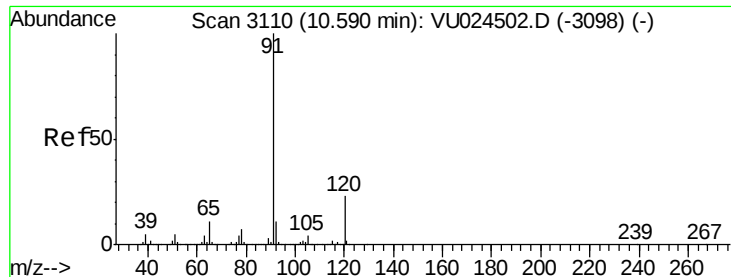
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025017.D
Acq: 28 Jun 2018 13:51

Tgt Ion:152 Resp: 176897
Ion Ratio Lower Upper
152 100
115 57.2 43.0 129.0
150 155.5 0.0 354.0



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





#78

n-propylbenzene

Concen: 0.37 ug/l

RT: 10.59 min Scan# 3111

Delta R.T. 0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

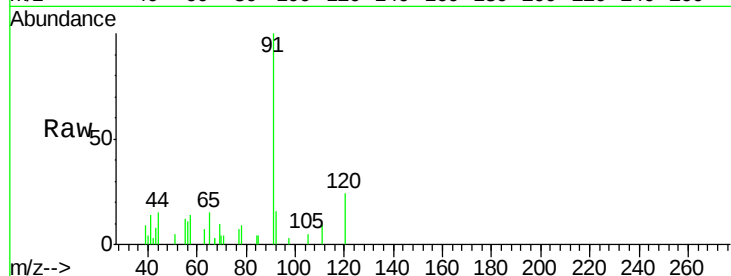
WP021SB478-25-27-180621ME

Tot Ion: 91 Resp: 5851

Ion Ratio Lower Upper

91 100

120 23.0 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VU024502.D (-3098) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3098) (-)

10.59

4000

3000

2000

1000

0

Time-->

10.55

10.60

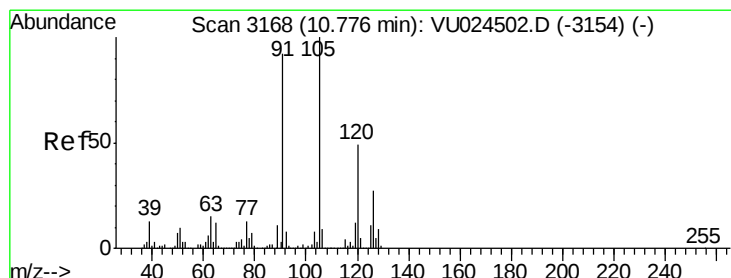
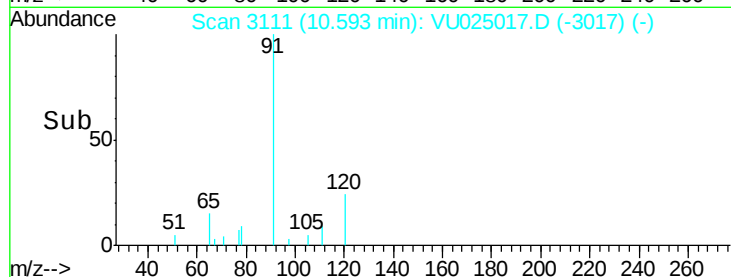
10.65

10.70

10.75

10.80

10.85



#80

1,3,5-Trimethylbenzene

Concen: 1.23 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VU025017.D

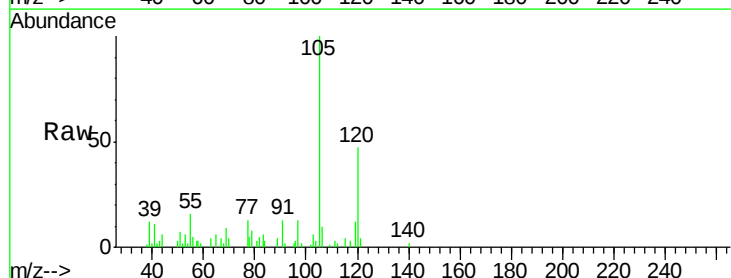
Acq: 28 Jun 2018 13:51

Tgt Ion: 105 Resp: 14465

Ion Ratio Lower Upper

105 100

120 46.5 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU024502.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3154) (-)

10.78

10000

8000

6000

4000

2000

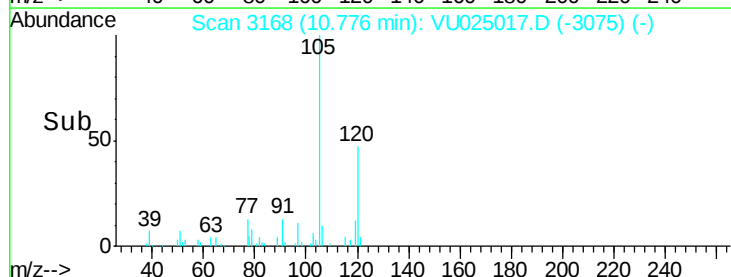
0

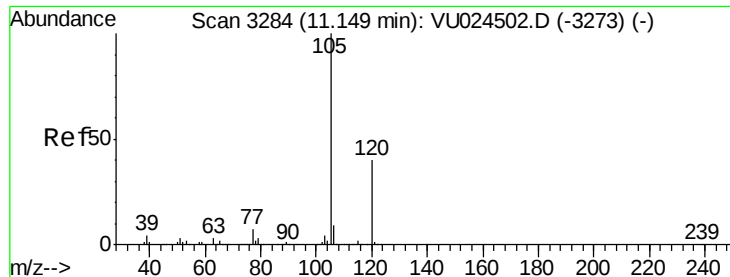
Time-->

10.75

10.80

10.85

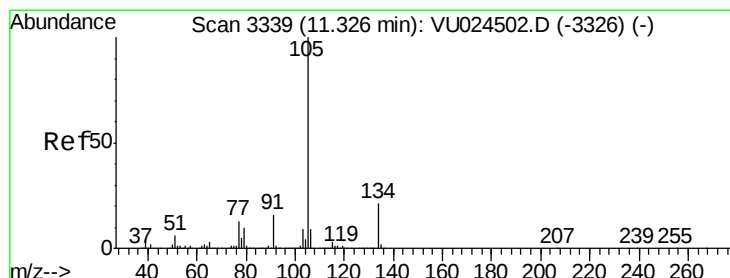
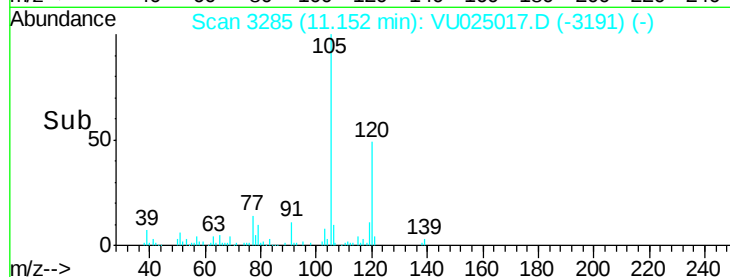
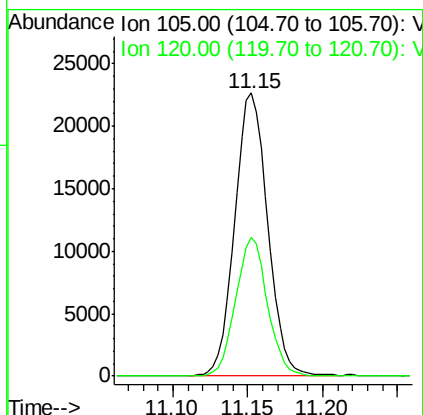
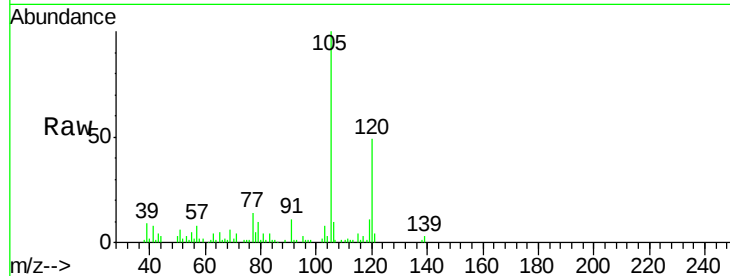




#84
 1,2,4-Trimethylbenzene
 Concen: 2.90 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. 0.00 min
 Lab File: VU025017.D
 Acq: 28 Jun 2018 13:51

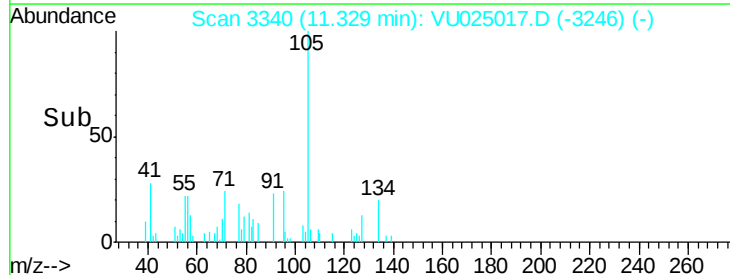
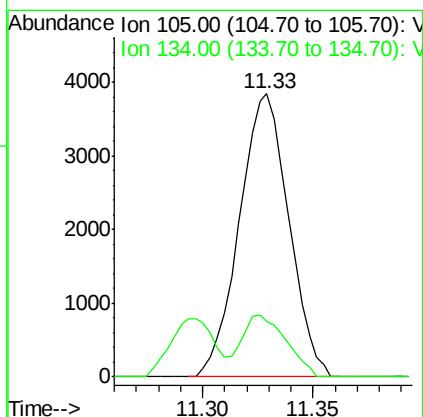
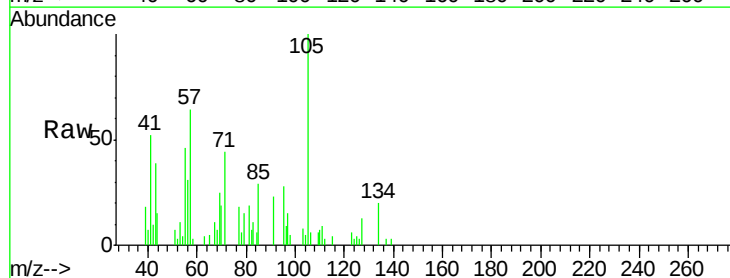
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB478-25-27-180621ME

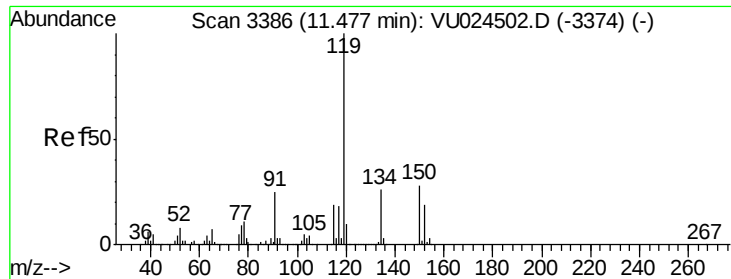
Tot Ion:105 Resp: 34834
 Ion Ratio Lower Upper
 105 100
 120 46.8 22.6 67.8



#85
 sec-Butylbenzene
 Concen: 0.42 ug/l
 RT: 11.33 min Scan# 3340
 Delta R.T. 0.00 min
 Lab File: VU025017.D
 Acq: 28 Jun 2018 13:51

Tgt Ion:105 Resp: 5972
 Ion Ratio Lower Upper
 105 100
 134 20.0 9.7 29.1





#86

p-Isopropyltoluene

Concen: 0.39 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

Instrument :

MSVOA_U

ClientSampleId :

WP021SB478-25-27-180621ME

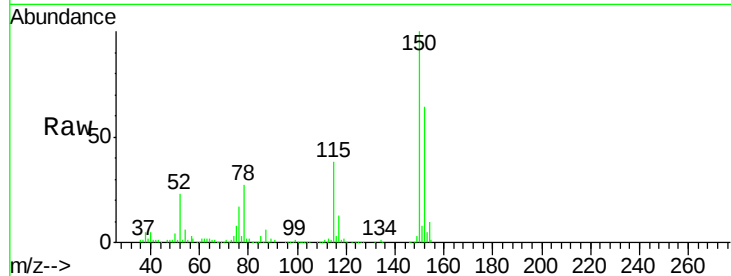
Tot Ion:119 Resp: 5010

Ion Ratio Lower Upper

119 100

134 33.6 12.9 38.6

91 36.0 12.0 36.1

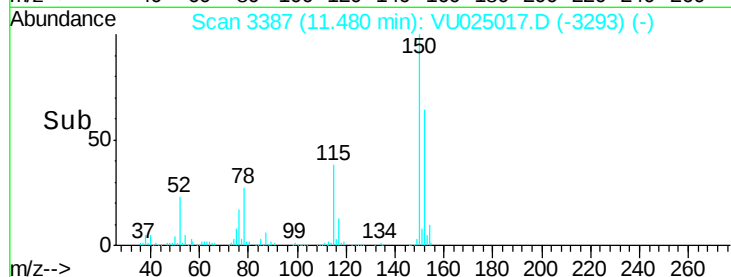


Abundance Ion 119.00 (118.70 to 119.70): V

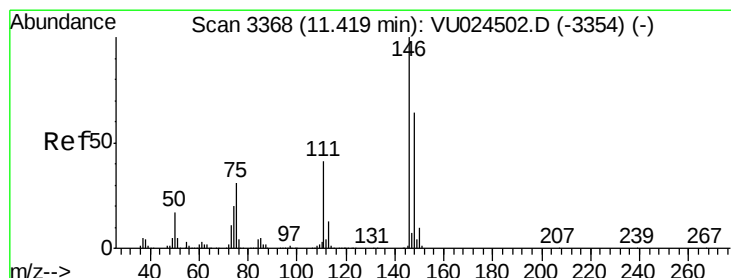
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

Time-->



Time-->



#87

1,3-Dichlorobenzene

Concen: 0.33 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU025017.D

Acq: 28 Jun 2018 13:51

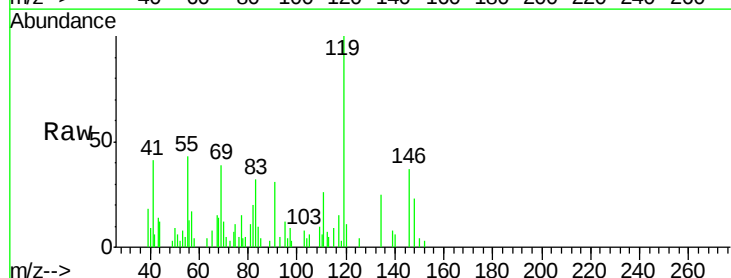
Tgt Ion:146 Resp: 2093

Ion Ratio Lower Upper

146 100

111 33.5 20.0 60.0

148 60.2 32.1 96.5

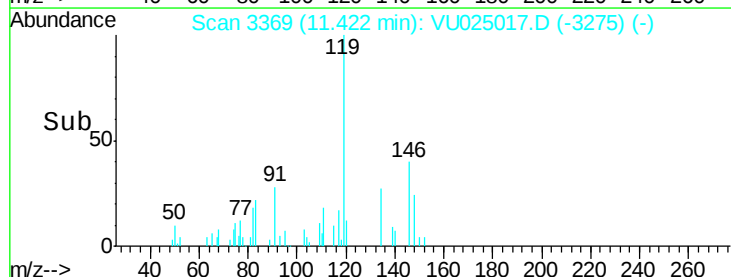


Abundance Ion 145.90 (145.60 to 146.60): V

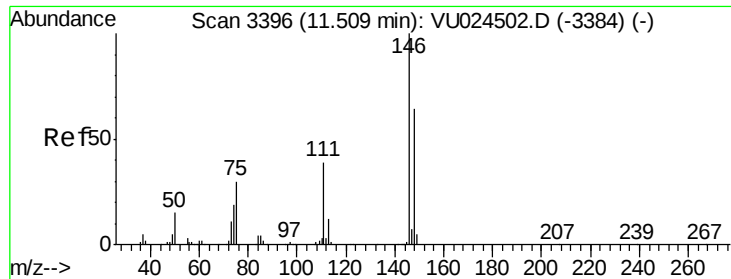
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

Time-->



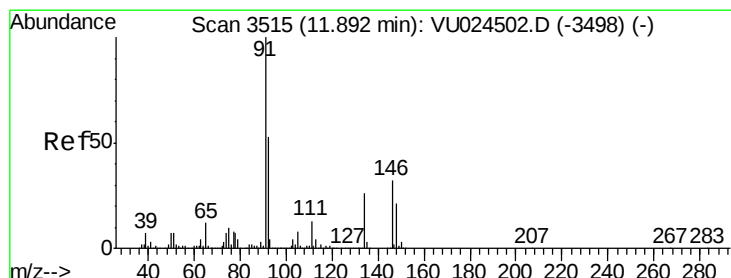
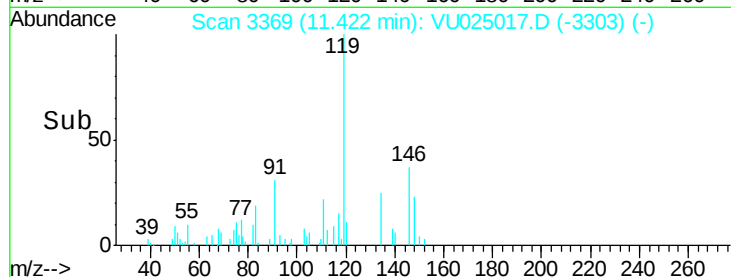
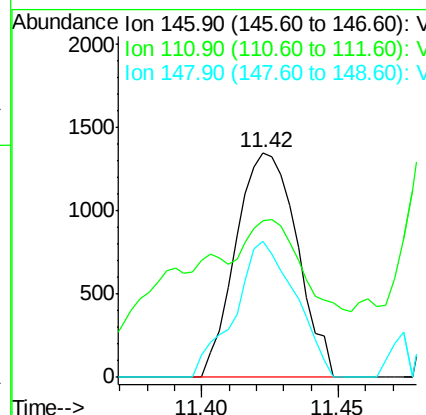
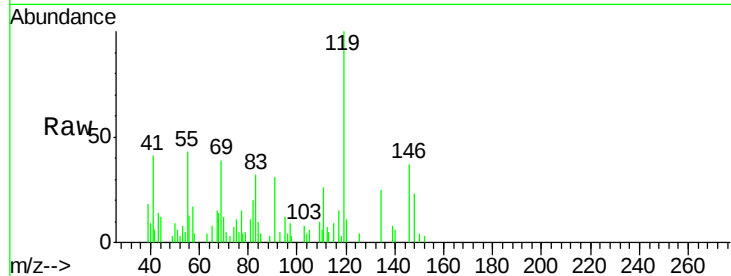
Time-->



#88
 1,4-Dichlorobenzene
 Concen: 0.33 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. -0.09 min
 Lab File: VU025017.D
 Acq: 28 Jun 2018 13:51

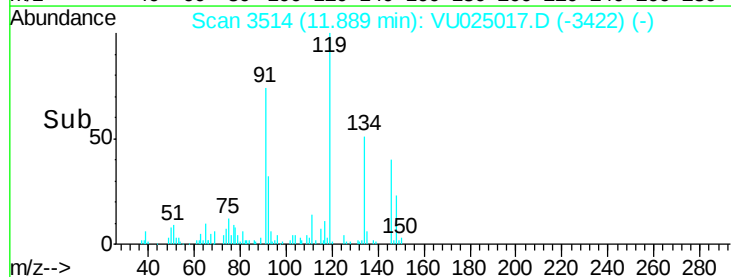
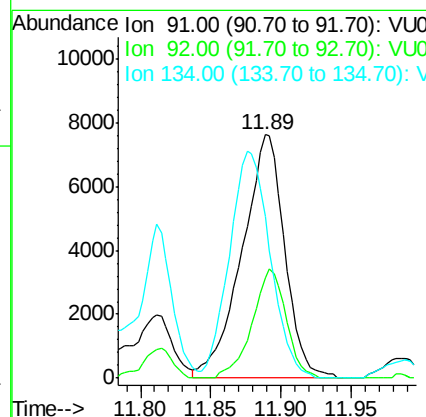
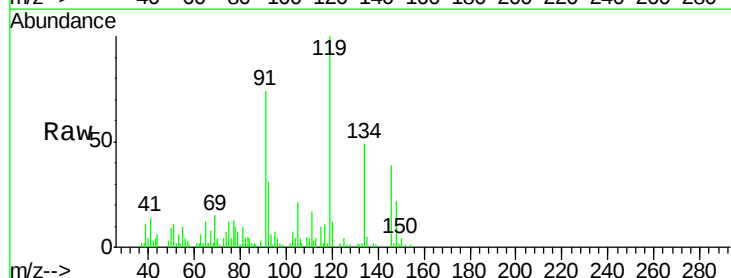
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB478-25-27-180621ME

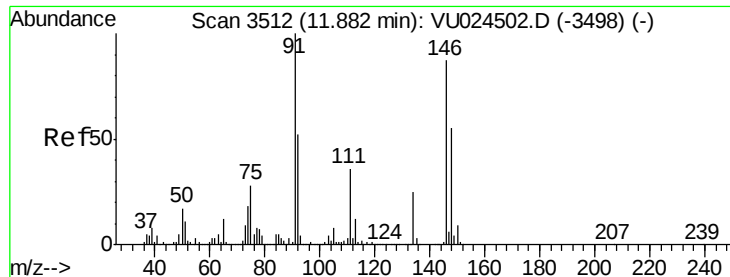
Tot Ion:146 Resp: 2093
 Ion Ratio Lower Upper
 146 100
 111 33.5 19.5 58.5
 148 60.2 32.4 97.0



#89
 n-Butylbenzene
 Concen: 1.44 ug/l
 RT: 11.89 min Scan# 3514
 Delta R.T. -0.00 min
 Lab File: VU025017.D
 Acq: 28 Jun 2018 13:51

Tgt Ion: 91 Resp: 16180
 Ion Ratio Lower Upper
 91 100
 92 35.6 25.6 76.8
 134 89.0 12.3 36.8#

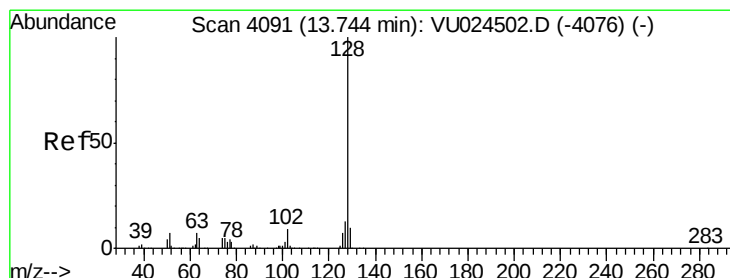
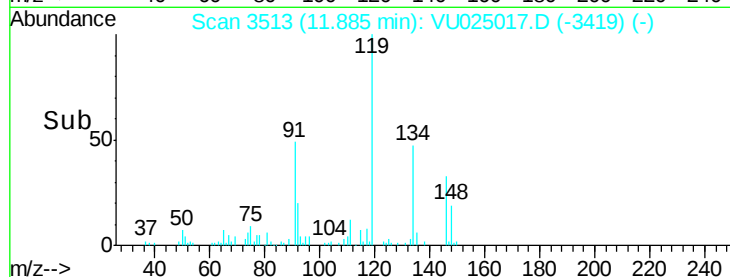
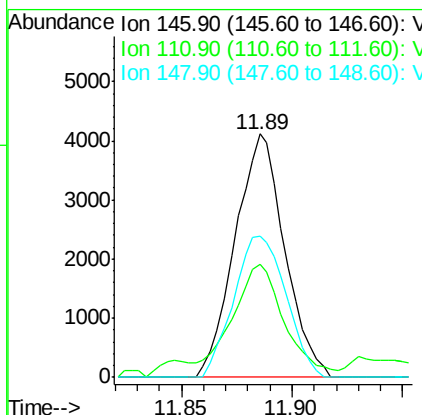
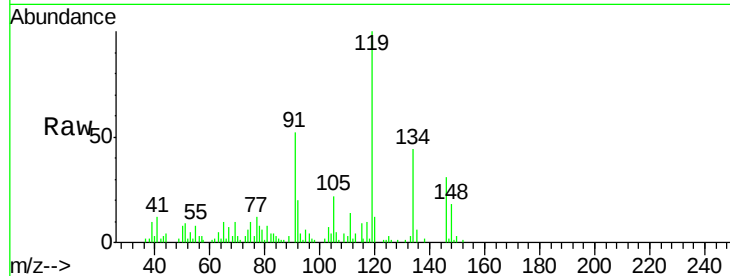




#91
 1,2-Dichlorobenzene
 Concen: 1.01 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU025017.D
 Acq: 28 Jun 2018 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB478-25-27-180621ME

Tot Ion:146 Resp: 6409
 Ion Ratio Lower Upper
 146 100
 111 43.4 20.5 61.6
 148 61.2 31.9 95.7



#95
 Naphthalene
 Concen: 1.92 ug/l
 RT: 13.75 min Scan# 4093
 Delta R.T. 0.01 min
 Lab File: VU025017.D
 Acq: 28 Jun 2018 13:51

Tgt Ion:128 Resp: 16405
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.6 16.0
 129 12.5 8.6 12.8

