

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029166.D
 Acq On : 14 Jan 2019 15:33
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:48:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	141273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	242081	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	221149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	91872	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.30	65	88682	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
35) Dibromofluoromethane	4.88	113	79901	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
50) Toluene-d8	7.56	98	303276	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
62) 4-Bromofluorobenzene	10.30	95	98105	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	

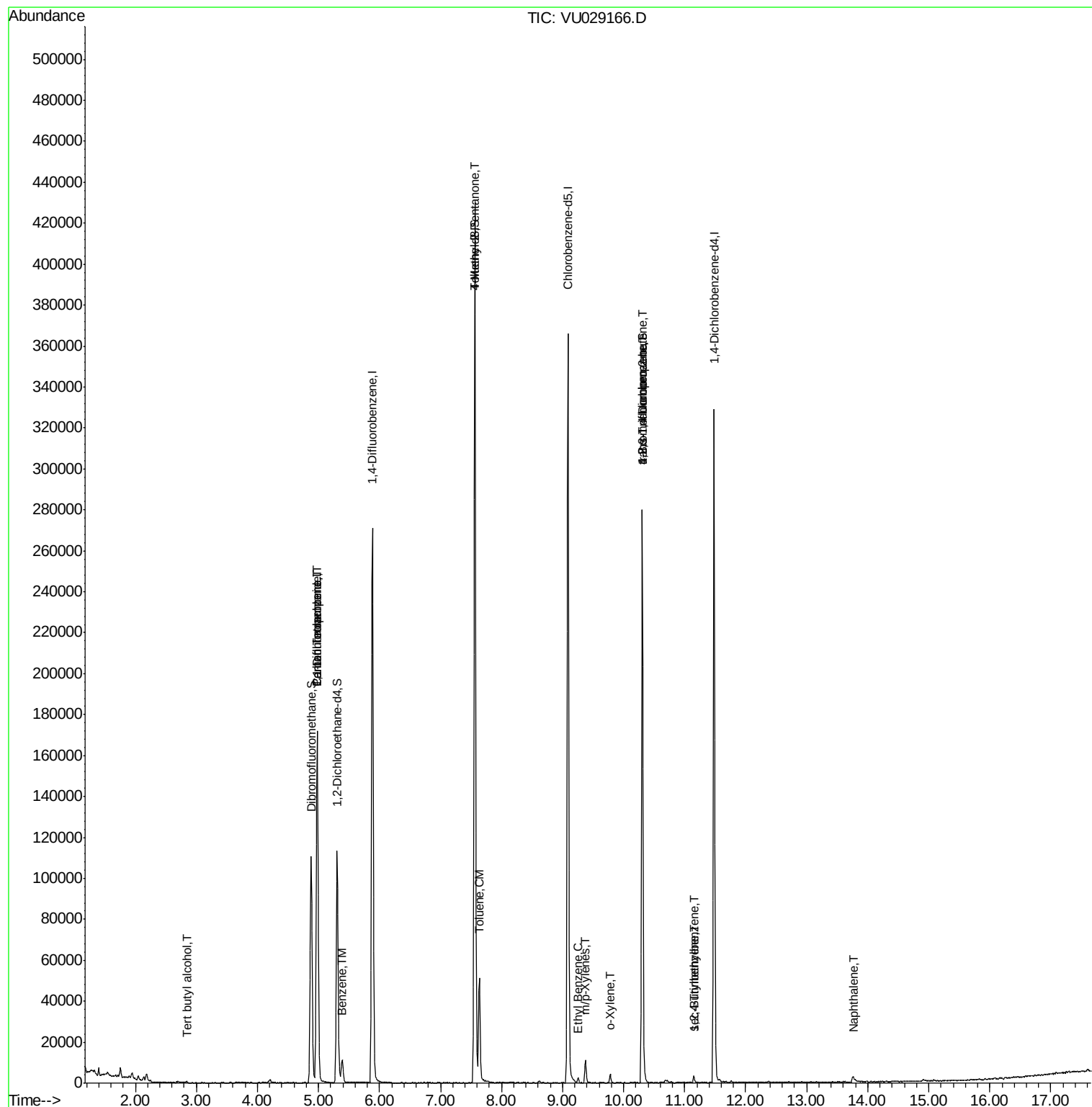
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	894	Below Cal		96
5) Bromomethane	1.64	94	96	Below Cal	#	2
11) Tert butyl alcohol	2.84	59	321	0.723	ug/l #	73
17) Carbon Disulfide	2.48	76	212	Below Cal	#	75
31) Cyclohexane	4.98	56	2472	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	9498	3.925	ug/l #	42
38) Carbon Tetrachloride	4.98	117	12489	6.188	ug/l #	17
40) Benzene	5.39	78	12130	1.607	ug/l	100
51) 4-Methyl-2-Pentanone	7.57	43	1000	0.361	ug/l #	1
52) Toluene	7.64	92	23068	5.020	ug/l	98
67) Ethyl Benzene	9.25	91	2466	0.298	ug/l	94
68) m/p-Xylenes	9.38	106	3628	1.128	ug/l	84
69) o-Xylene	9.78	106	1348	0.435	ug/l	92
76) 1,2,3-Trichloropropane	10.30	75	45663	20.286	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	45663	52.318	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	2574	0.454	ug/l	98
85) sec-Butylbenzene	11.15	105	2574	0.380	ug/l #	57
95) Naphthalene	13.76	128	4921	0.692	ug/l #	82

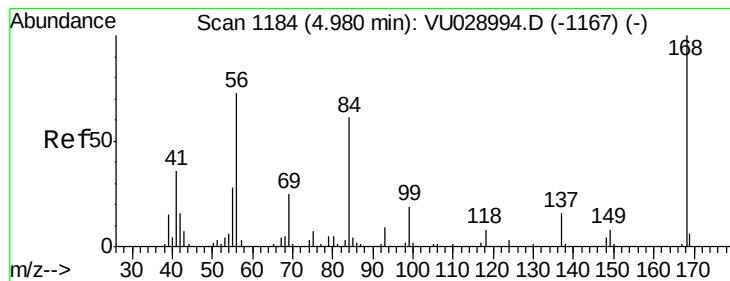
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

Instrument :

MSVOA_U

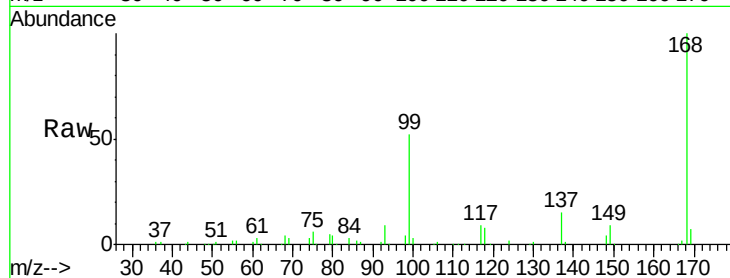
ClientSampleId :

Tot Ion:168 Resp: 141273

Ion Ratio Lower Upper

168 100

99 52.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

60000

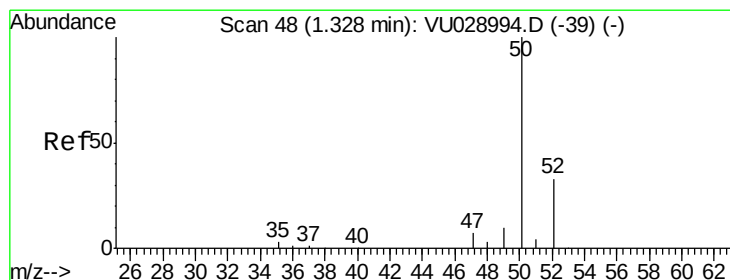
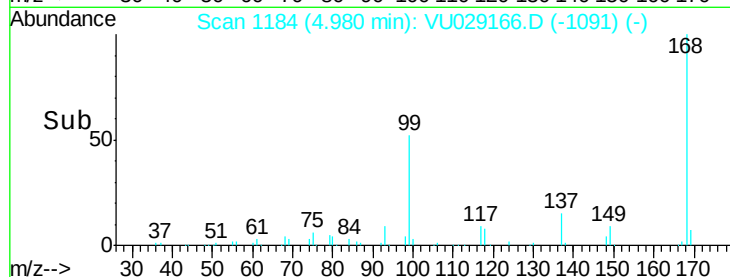
40000

20000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029166.D

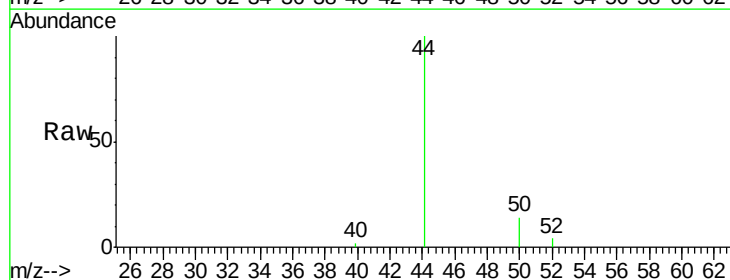
Acq: 14 Jan 2019 15:33

Tgt Ion: 50 Resp: 894

Ion Ratio Lower Upper

50 100

52 30.4 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)

1.33

800

600

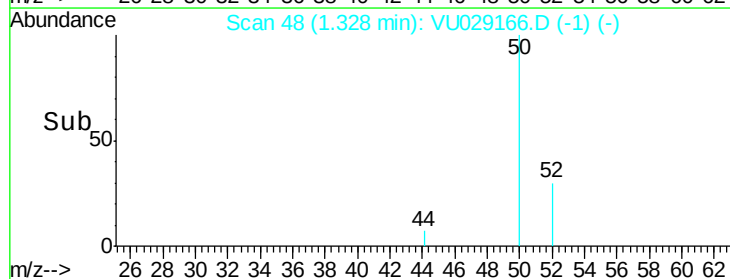
400

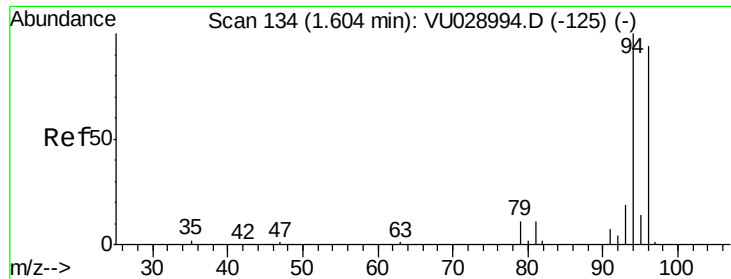
200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 144

Delta R.T. 0.03 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

Instrument :

MSVOA_U

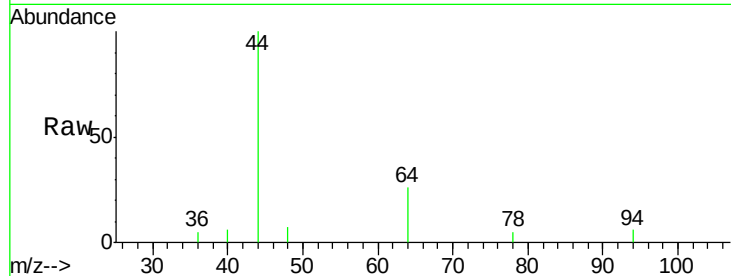
ClientSampled :

Tot Ion: 94 Resp: 96

Ion Ratio Lower Upper

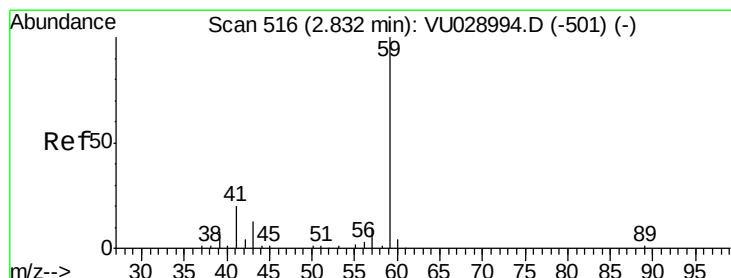
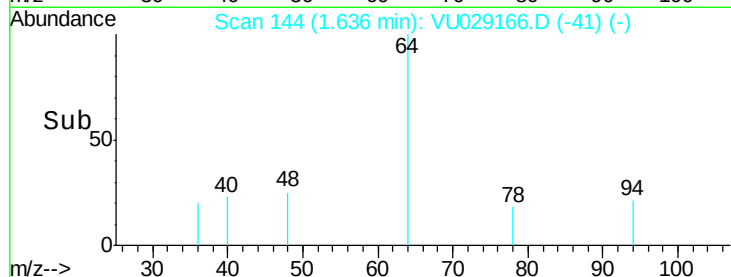
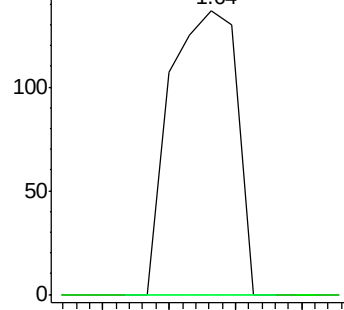
94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 0.723 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU029166.D

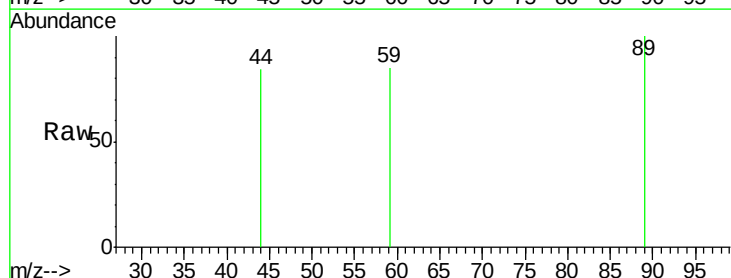
Acq: 14 Jan 2019 15:33

Tgt Ion: 59 Resp: 321

Ion Ratio Lower Upper

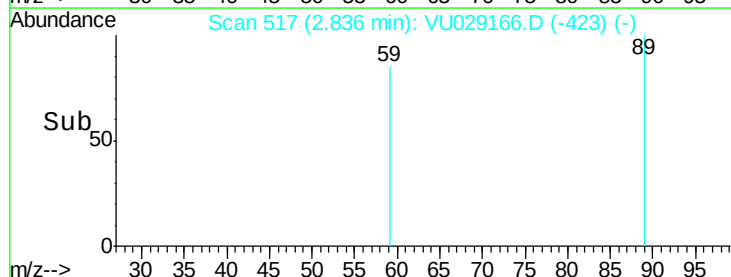
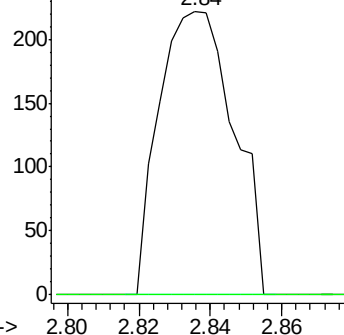
59 100

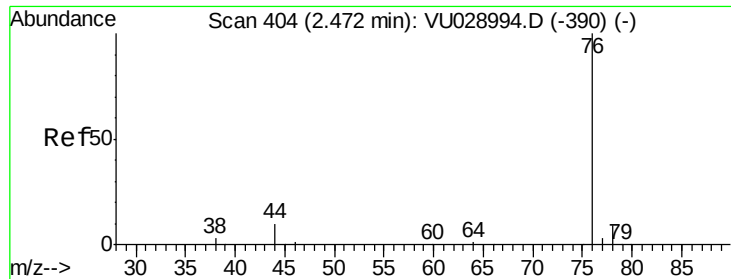
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

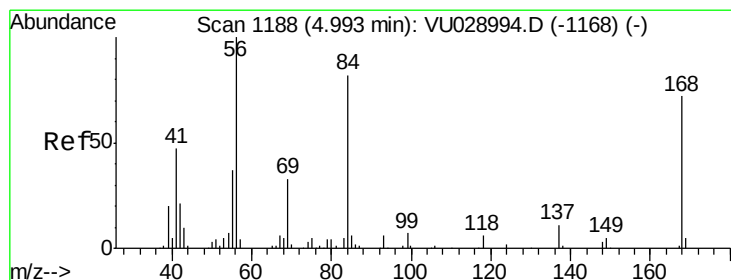
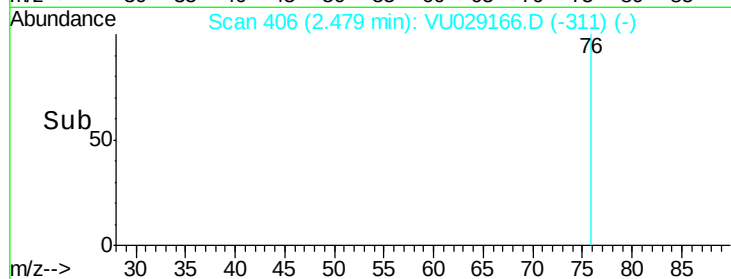
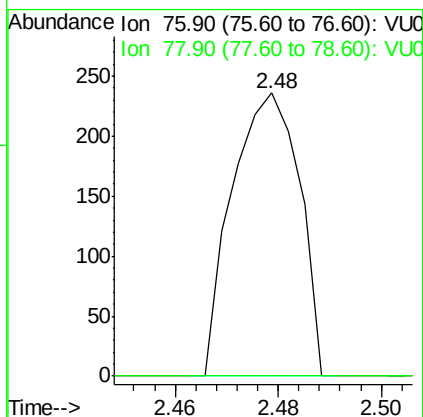
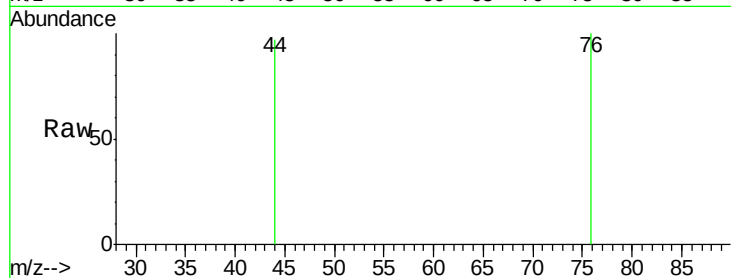




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.48 min Scan# 406
Delta R.T. 0.01 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

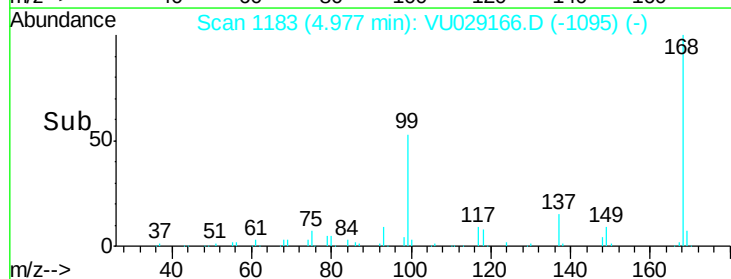
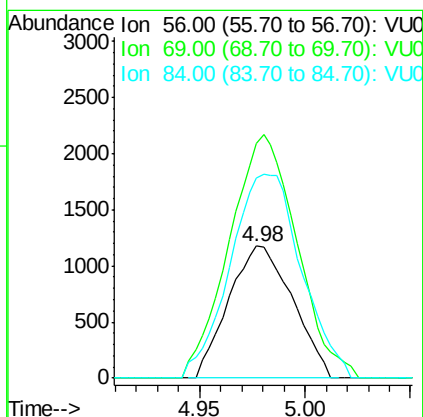
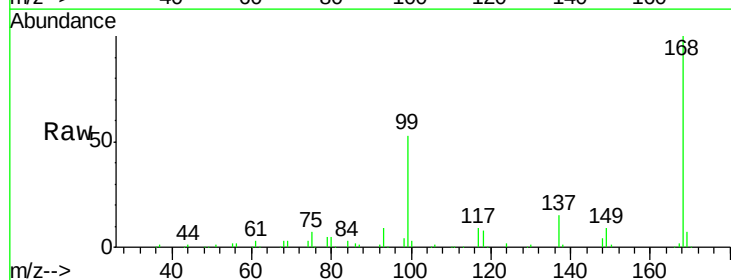
Instrument :
MSVOA_U
ClientSampled :

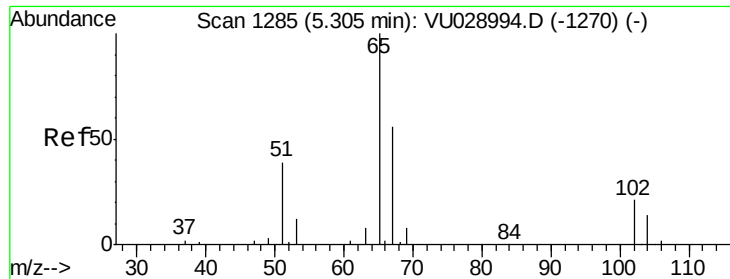
Tot Ion: 76 Resp: 212
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

Tgt Ion: 56 Resp: 2472
Ion Ratio Lower Upper
56 100
69 165.6 26.7 40.1#
84 140.4 65.7 98.5#

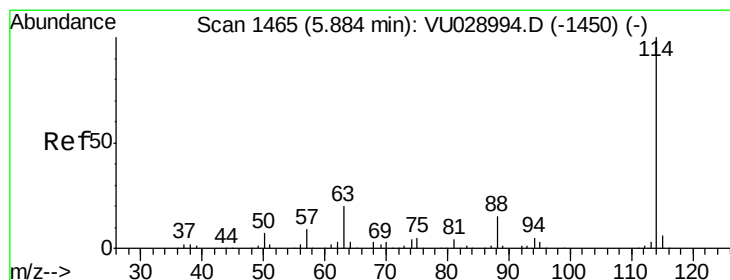
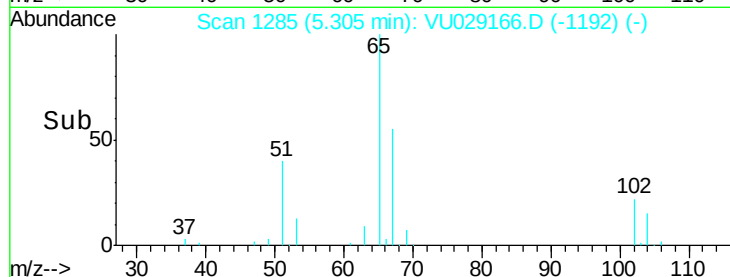
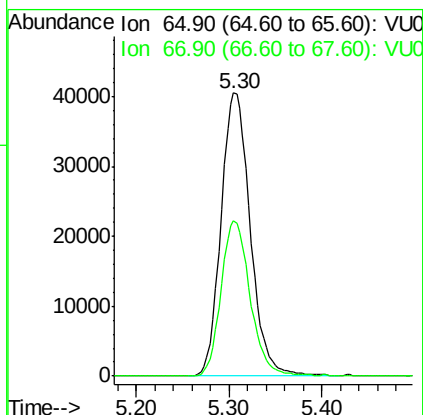
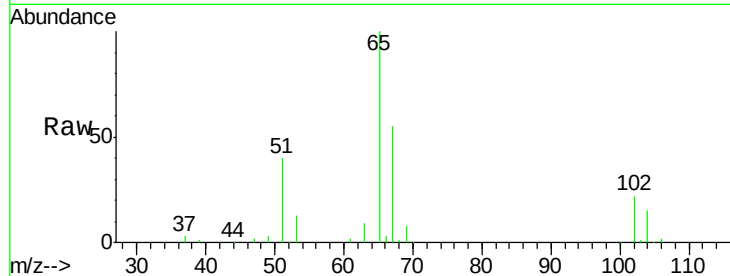




#33
 1,2-Dichloroethane-d4
 Concen: 50.780 ug/l
 RT: 5.30 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VU029166.D
 Acq: 14 Jan 2019 15:33

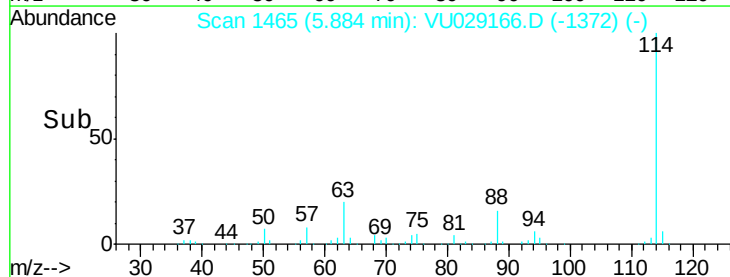
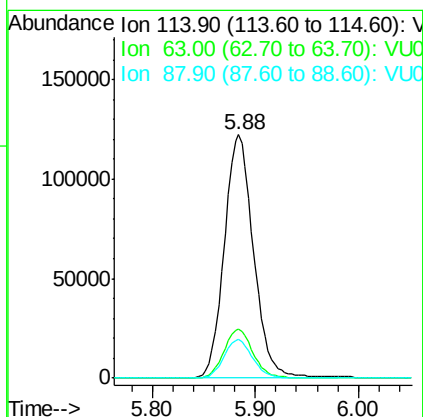
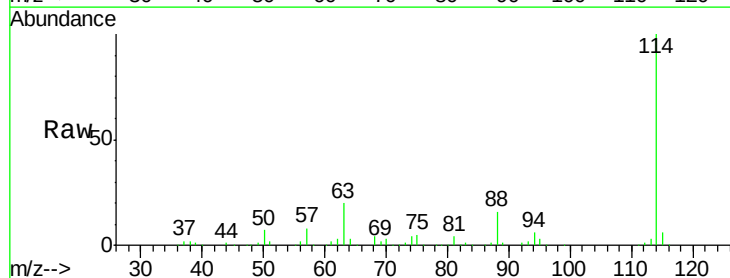
Instrument :
 MSVOA_U
 ClientSampleId :

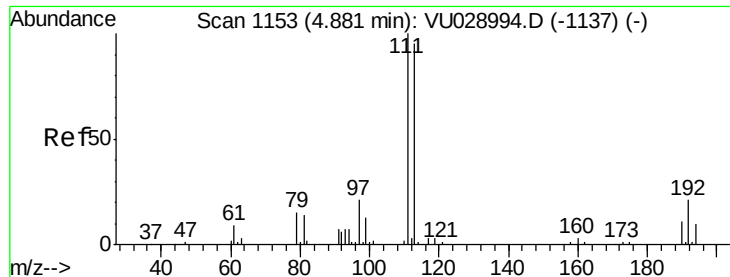
Tot Ion: 65 Resp: 88682
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029166.D
 Acq: 14 Jan 2019 15:33

Tgt Ion: 114 Resp: 242081
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.2
 88 15.7 0.0 30.4

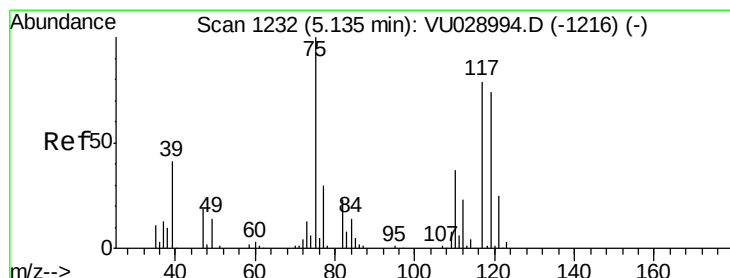
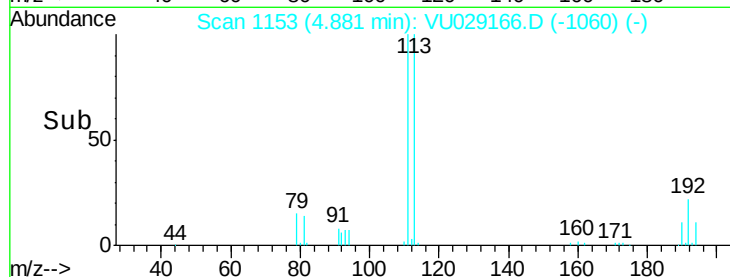
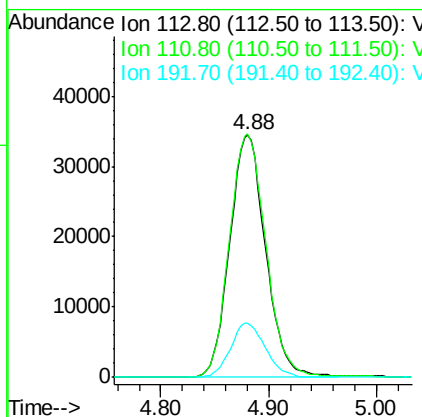
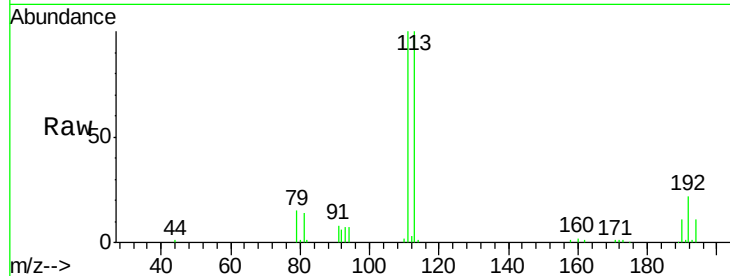




#35
 Dibromofluoromethane
 Concen: 50.917 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029166.D
 Acq: 14 Jan 2019 15:33

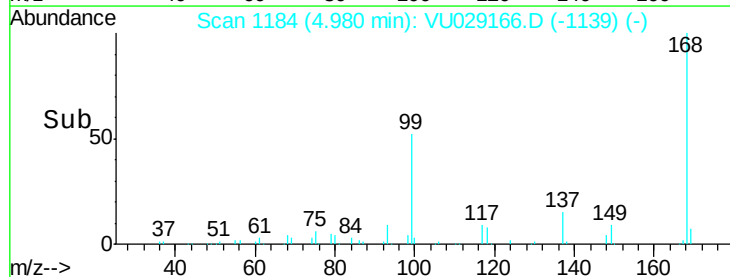
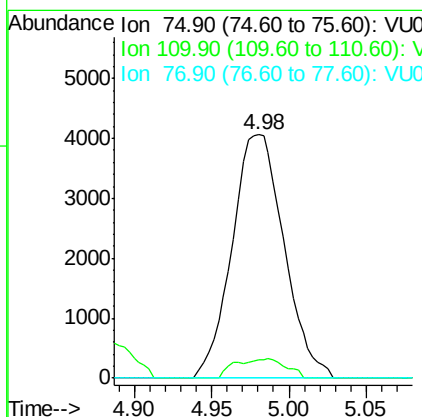
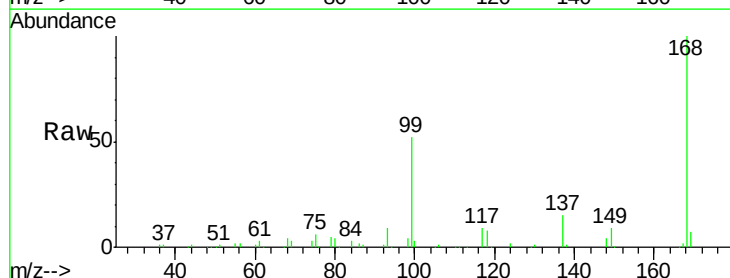
Instrument :
 MSVOA_U
 ClientSampleId :

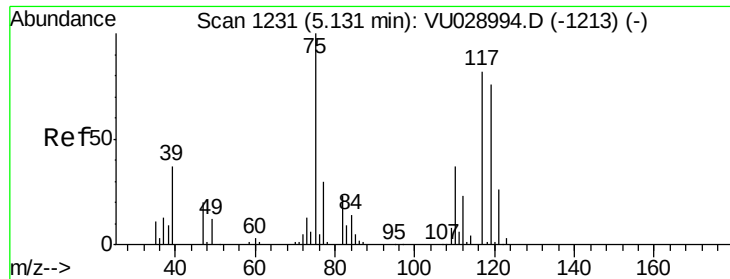
Tot Ion:113 Resp: 79901
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.4 122.2
 192 21.8 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 3.925 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029166.D
 Acq: 14 Jan 2019 15:33

Tgt Ion: 75 Resp: 9498
 Ion Ratio Lower Upper
 75 100
 110 2.2 18.4 55.4#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.188 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.15 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

Instrument :

MSVOA_U

ClientSampleId :

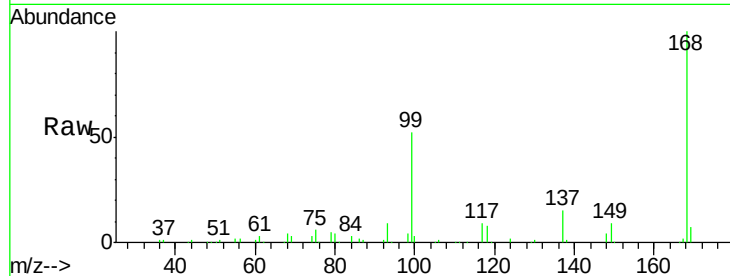
Tot Ion:117 Resp: 12489

Ion Ratio Lower Upper

117 100

119 4.9 74.6 111.8#

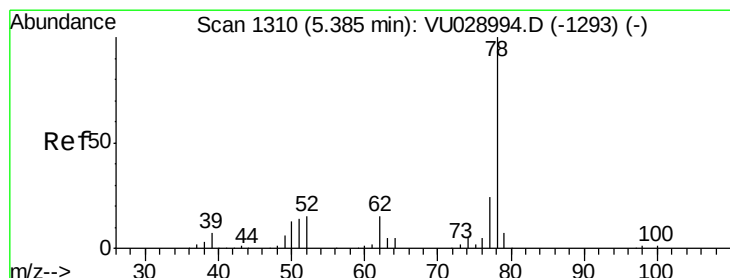
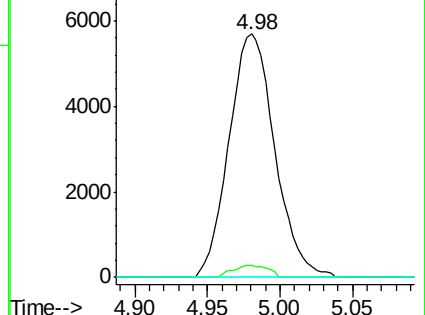
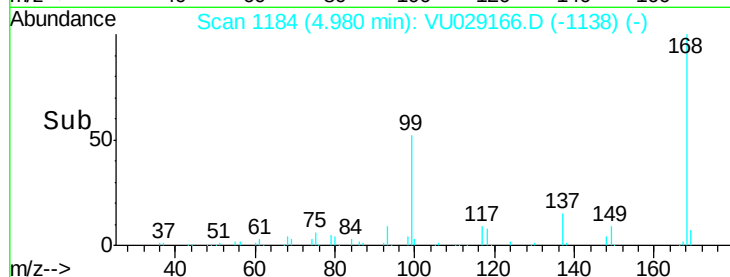
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 1.607 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VU029166.D

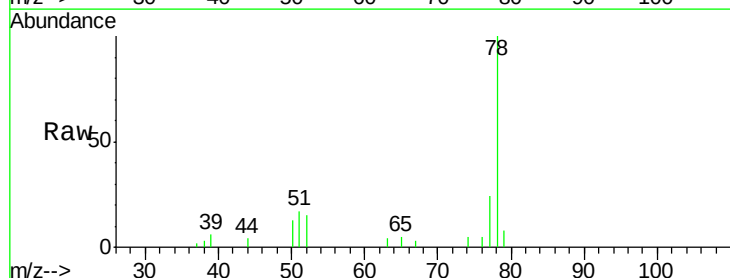
Acq: 14 Jan 2019 15:33

Tgt Ion: 78 Resp: 12130

Ion Ratio Lower Upper

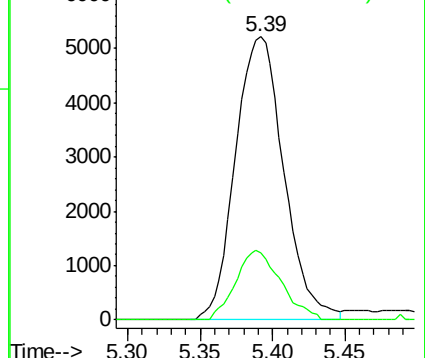
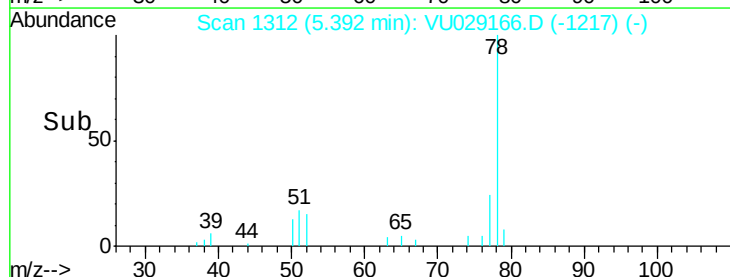
78 100

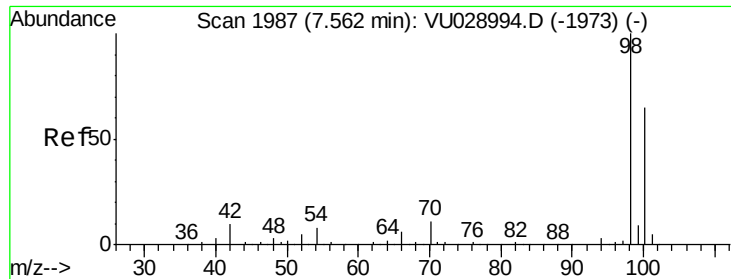
77 23.8 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

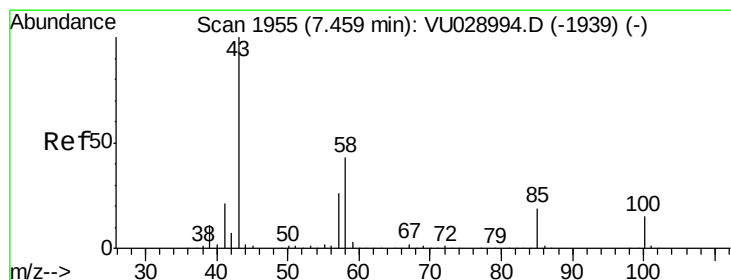
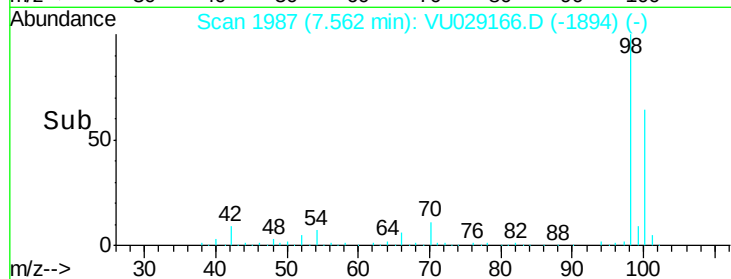
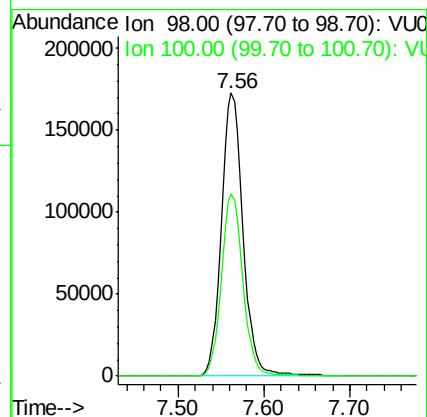
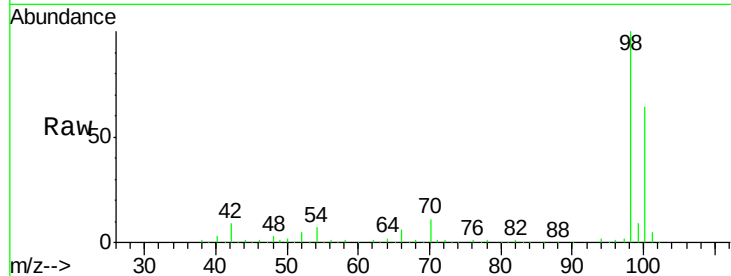




#50
Toluene-d8
Concen: 48.954 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

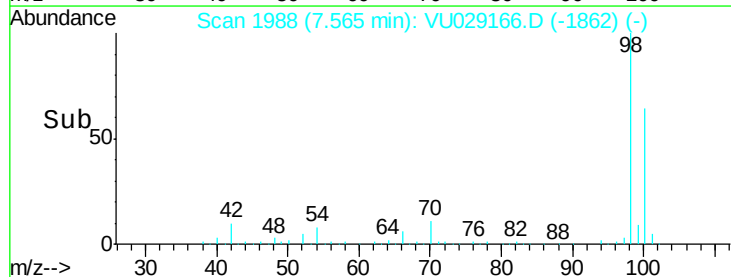
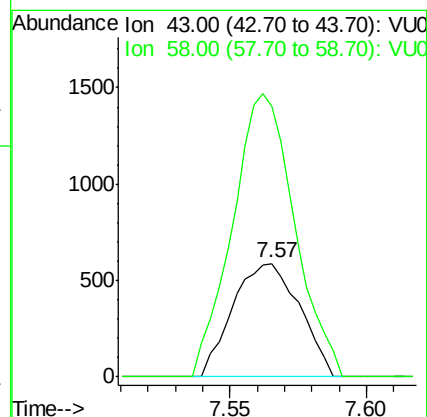
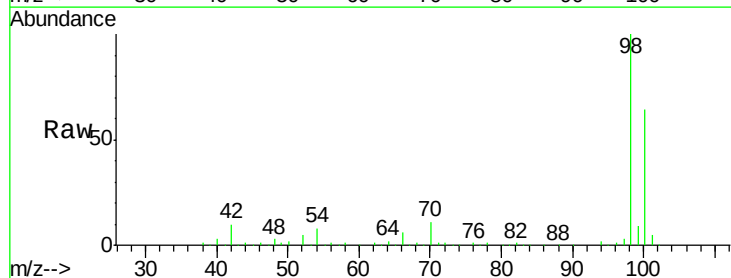
Instrument :
MSVOA_U
ClientSampleId :

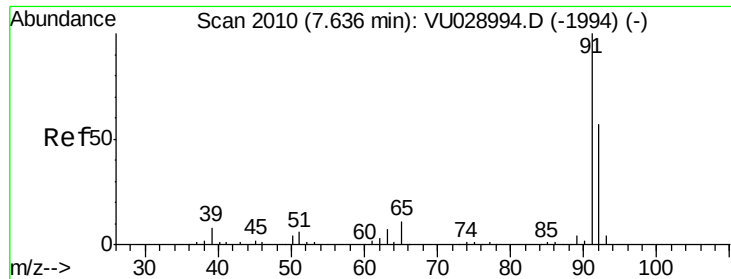
Tot Ion: 98 Resp: 303276
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.361 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.11 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

Tgt Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
58 231.7 33.9 50.9#





#52

Toluene

Concen: 5.020 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

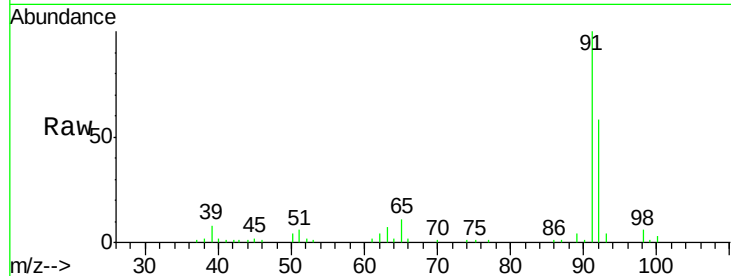
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 92 Resp: 23068

Ion Ratio Lower Upper

92 100

91 171.6 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU028994.D (-1994) (-)

Ion 91.00 (90.70 to 91.70): VU028994.D (-1994) (-)

25000

20000

15000

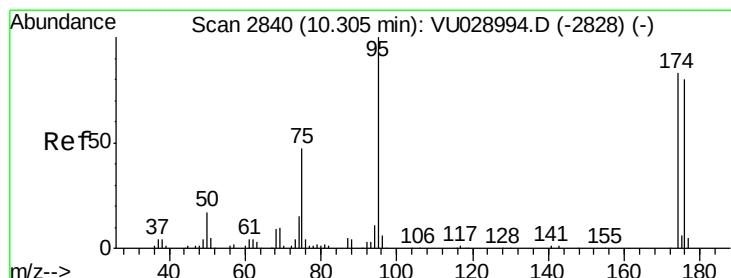
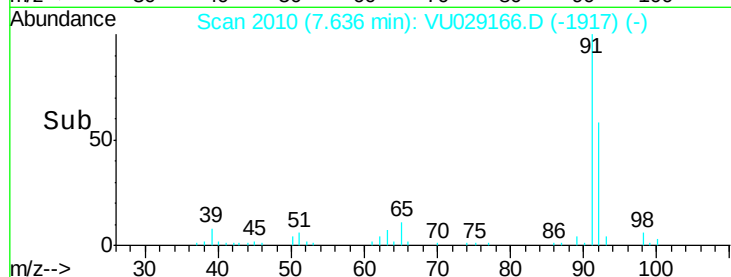
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#62

4-Bromofluorobenzene

Concen: 44.064 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

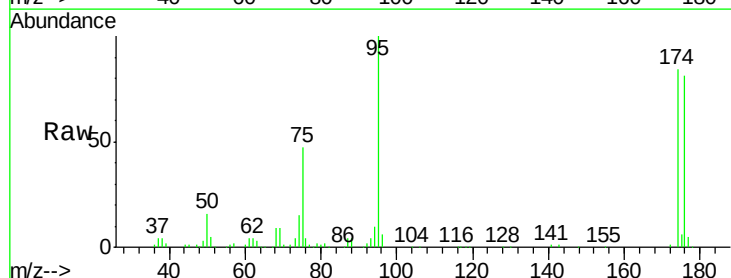
Tgt Ion: 95 Resp: 98105

Ion Ratio Lower Upper

95 100

174 84.6 0.0 170.6

176 81.3 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU028994.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028994.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028994.D (-2828) (-)

80000

60000

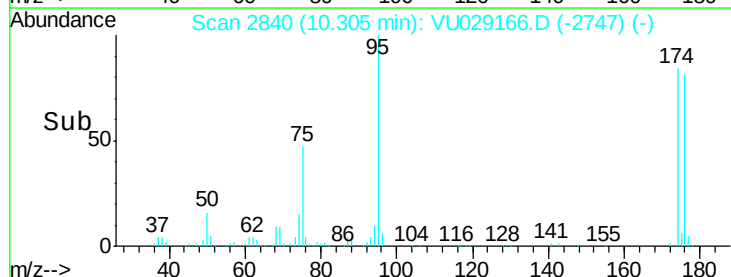
40000

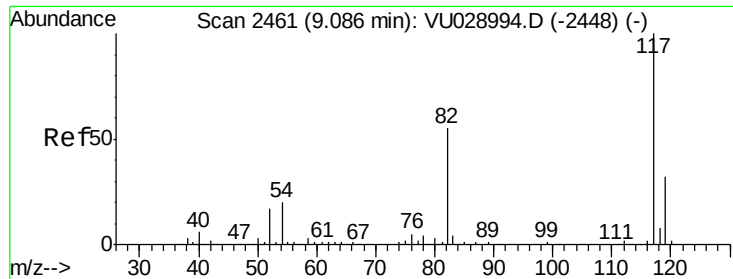
20000

0

10.30 10.40

Time-->

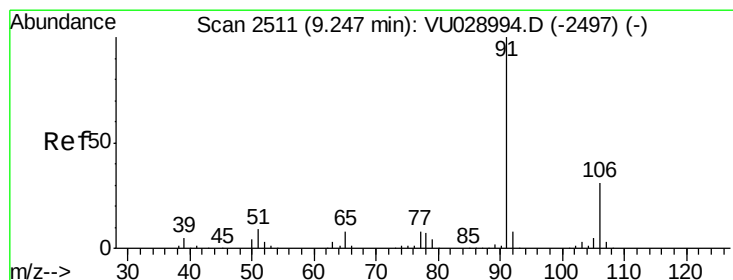
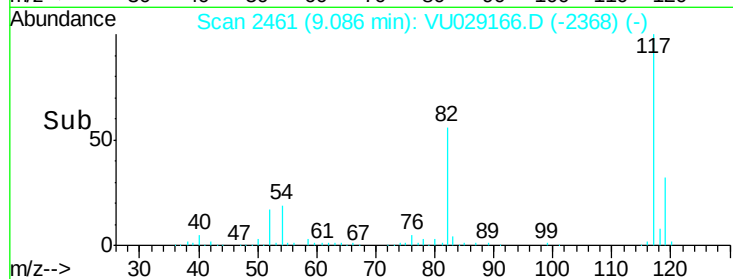
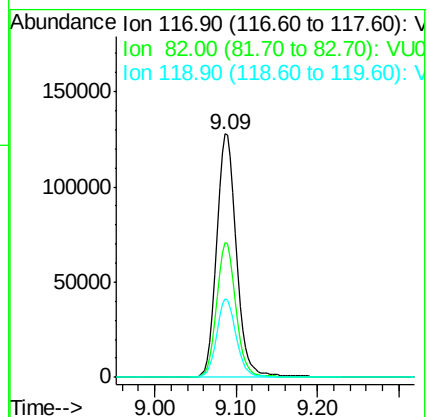
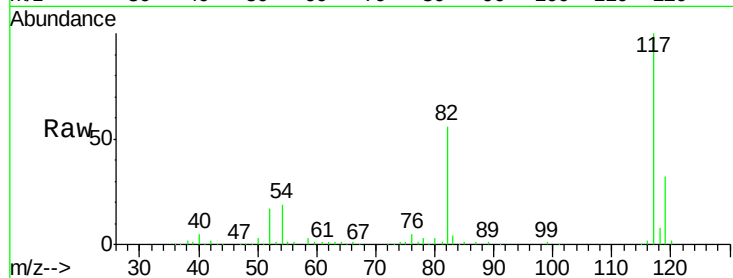




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. -0.00 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

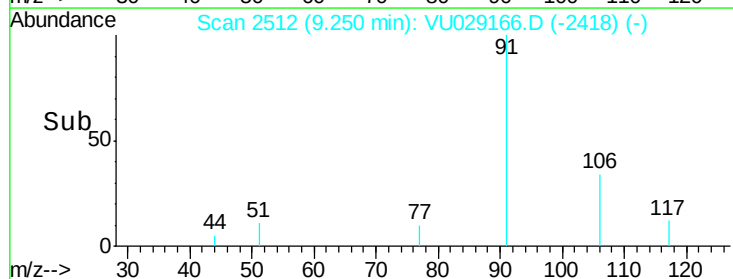
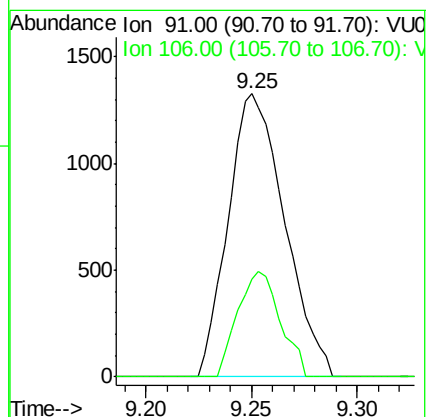
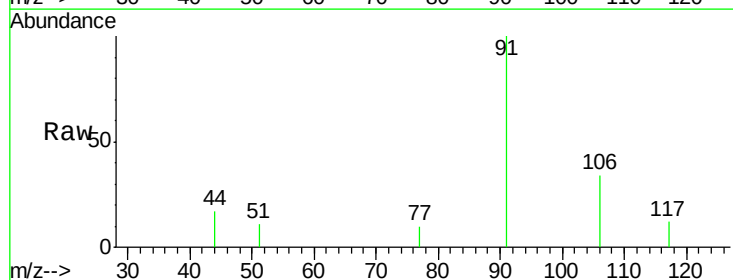
Instrument :
MSVOA_U
ClientSampleId :

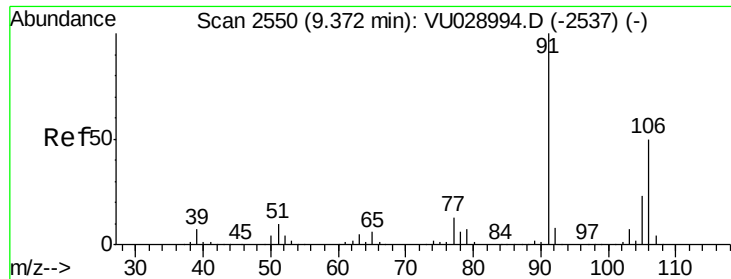
Tot Ion:117 Resp: 221149
Ion Ratio Lower Upper
117 100
82 55.6 43.9 65.9
119 32.4 26.0 39.0



#67
Ethyl Benzene
Concen: 0.298 ug/l
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

Tgt Ion: 91 Resp: 2466
Ion Ratio Lower Upper
91 100
106 34.4 25.0 37.4

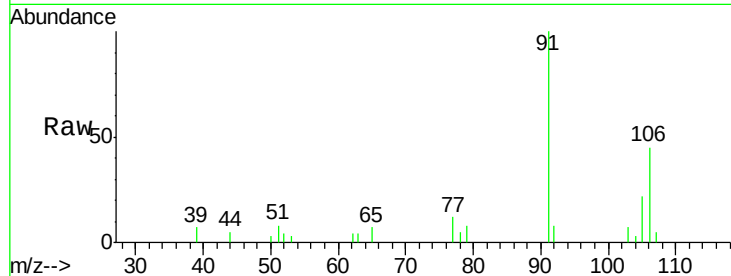




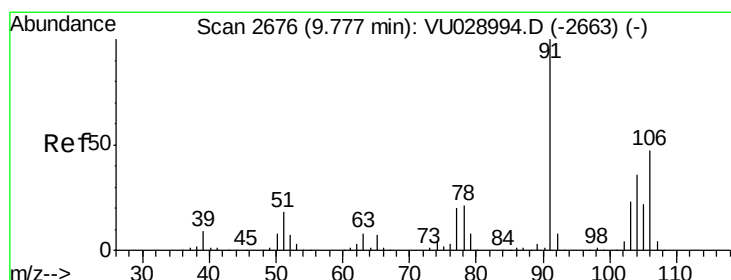
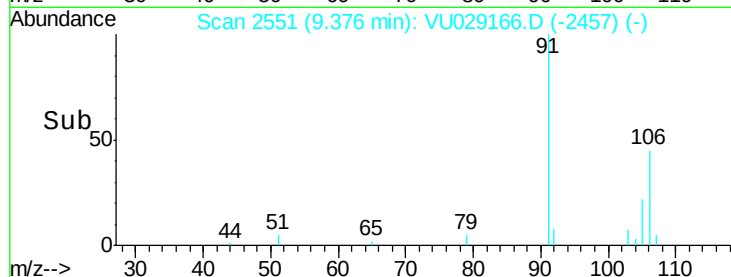
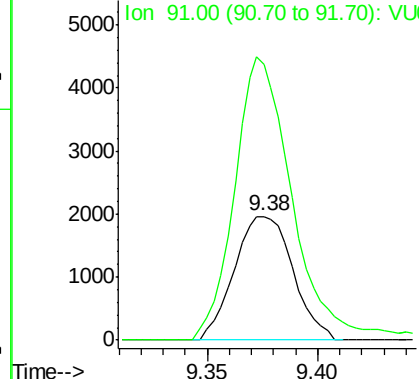
#68
m/p-Xylenes
Concen: 1.128 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 3628
Ion Ratio Lower Upper
106 100
91 226.0 161.7 242.5

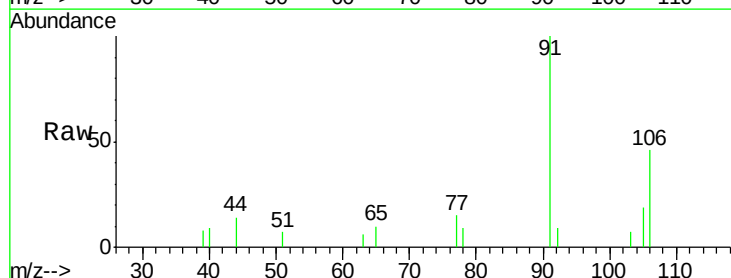


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

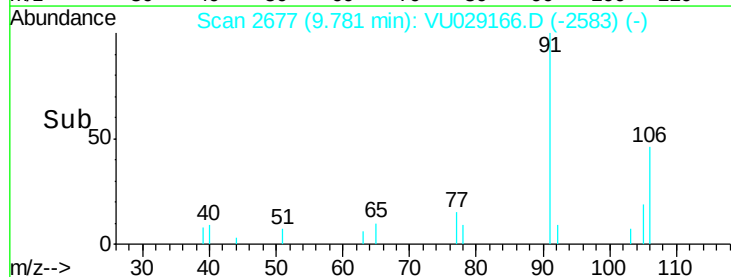
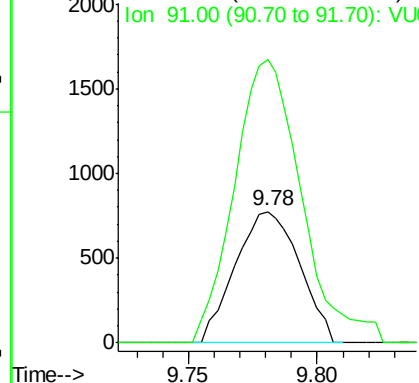


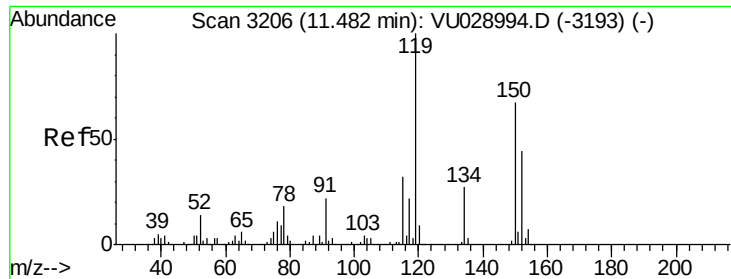
#69
o-Xylene
Concen: 0.435 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU029166.D
Acq: 14 Jan 2019 15:33

Tgt Ion:106 Resp: 1348
Ion Ratio Lower Upper
106 100
91 225.1 106.1 318.3



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

Instrument :

MSVOA_U

ClientSampled :

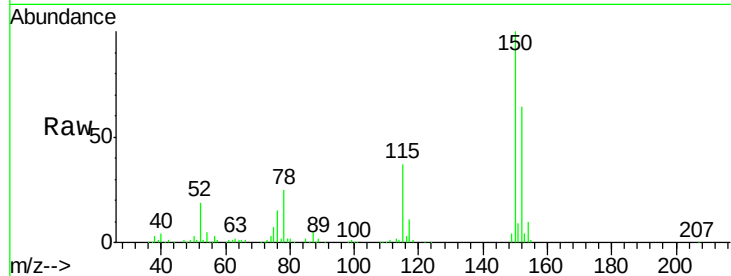
Tot Ion:152 Resp: 91872

Ion Ratio Lower Upper

152 100

115 57.2 40.1 120.3

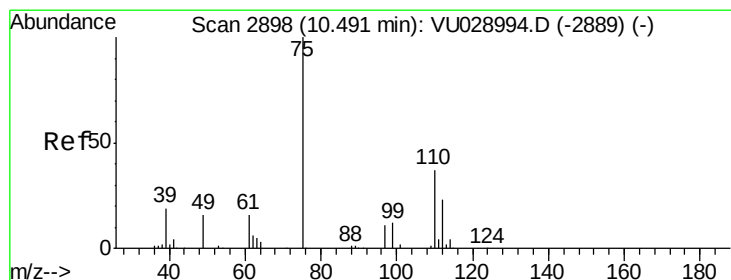
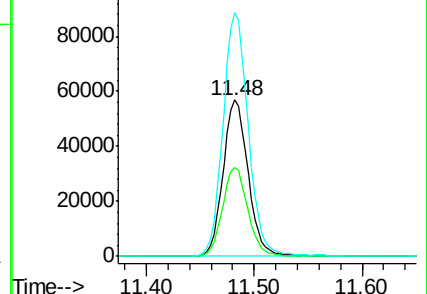
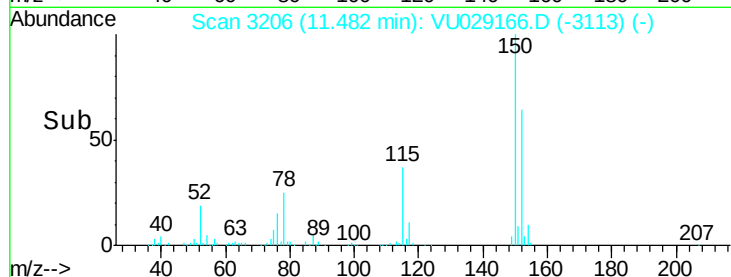
150 156.6 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.286 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029166.D

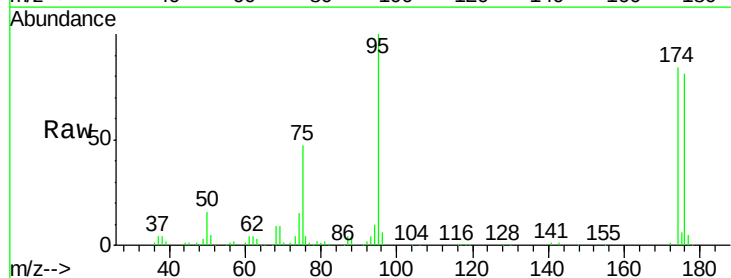
Acq: 14 Jan 2019 15:33

Tgt Ion: 75 Resp: 45663

Ion Ratio Lower Upper

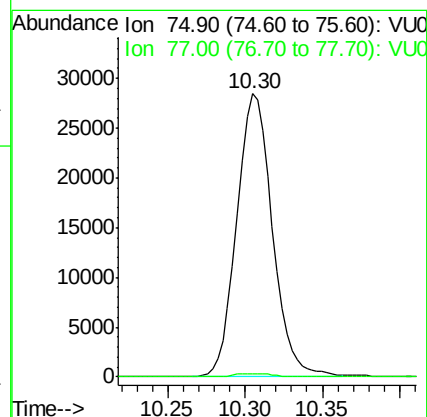
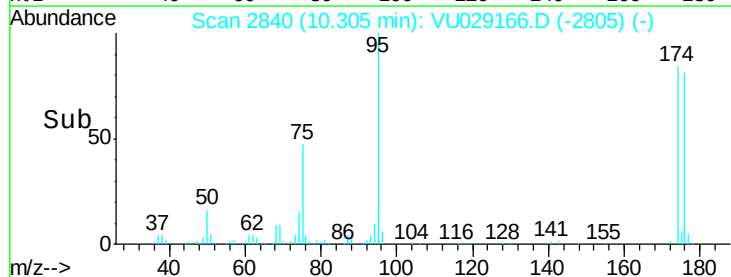
75 100

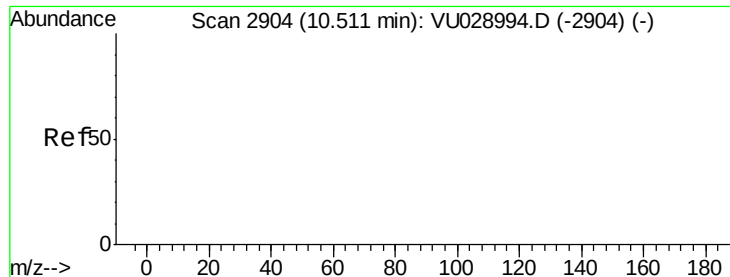
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.318 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029166.D

Acq: 14 Jan 2019 15:33

Instrument :

MSVOA_U

ClientSampleId :

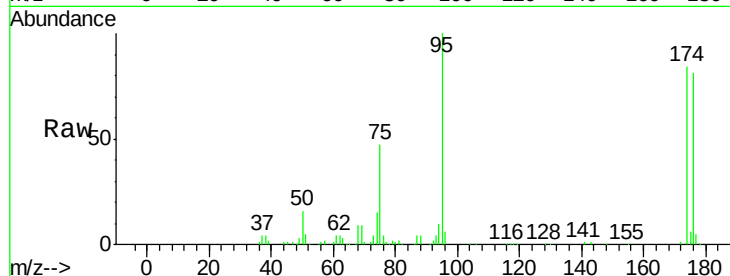
Tot Ion: 75 Resp: 45663

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

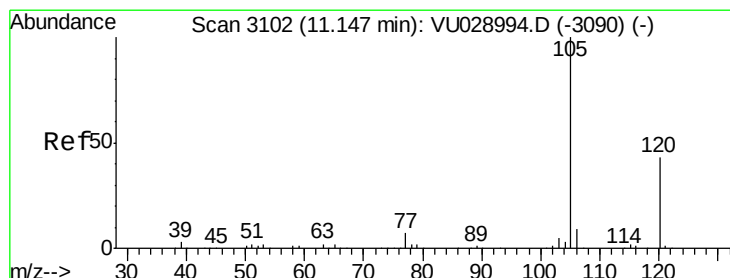
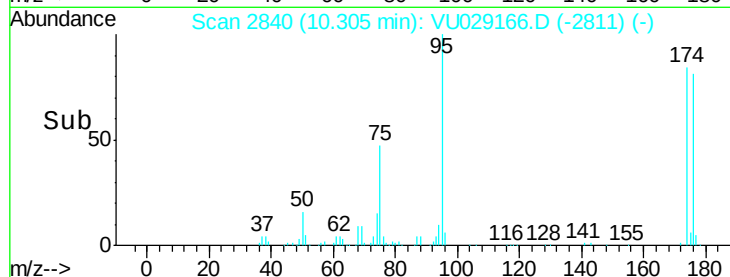
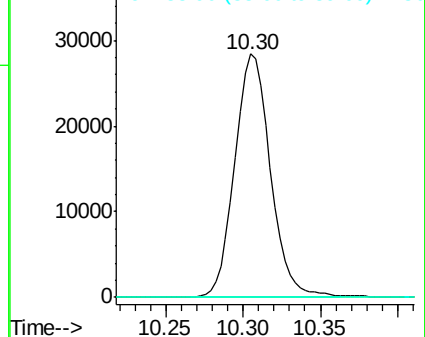
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU028994.D (-2904) (-)

Ion 53.00 (52.70 to 53.70): VU028994.D (-2904) (-)

Ion 88.90 (88.60 to 89.60): VU028994.D (-2904) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.454 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

Lab File: VU029166.D

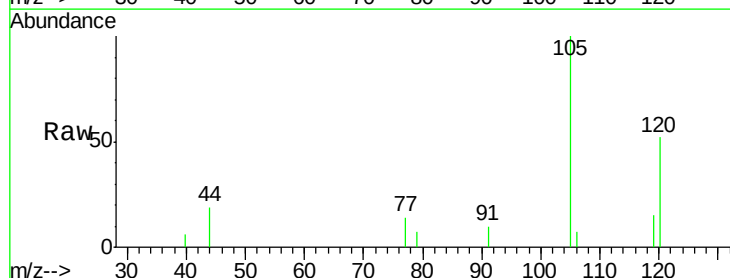
Acq: 14 Jan 2019 15:33

Tgt Ion:105 Resp: 2574

Ion Ratio Lower Upper

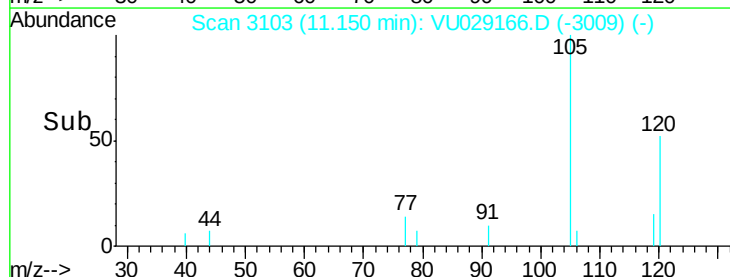
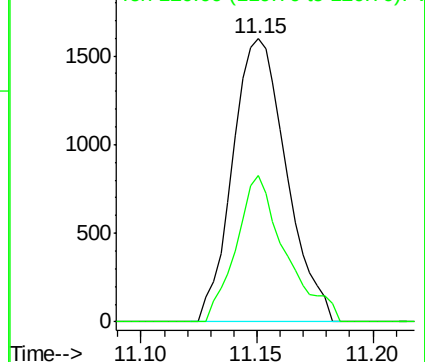
105 100

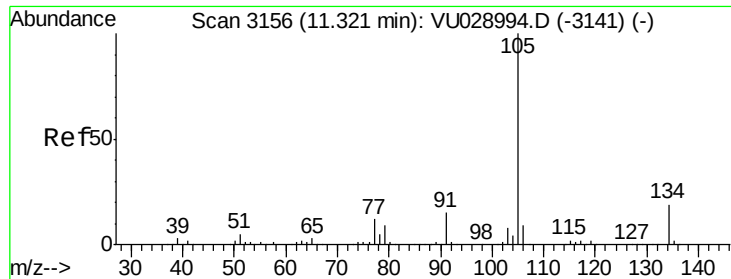
120 47.3 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): VU028994.D (-3090) (-)

Ion 120.00 (119.70 to 120.70): VU028994.D (-3090) (-)

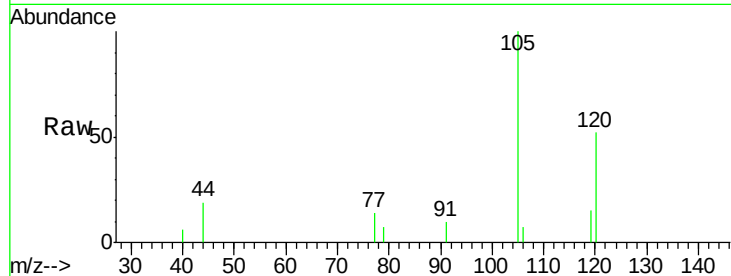




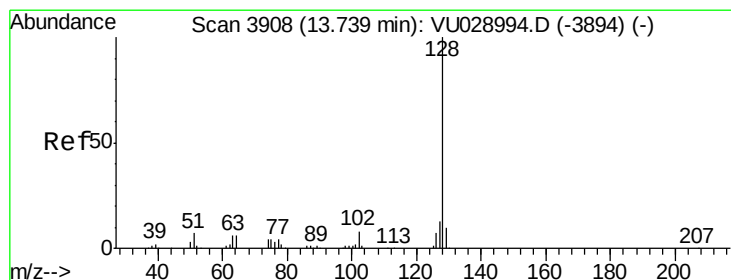
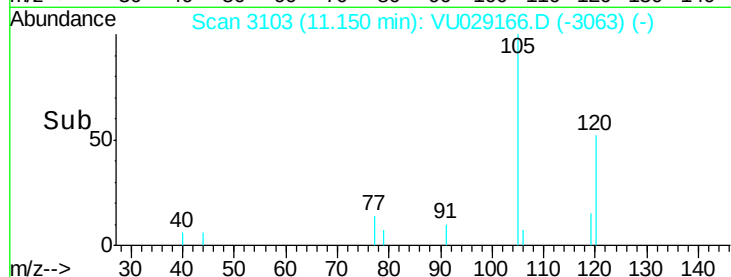
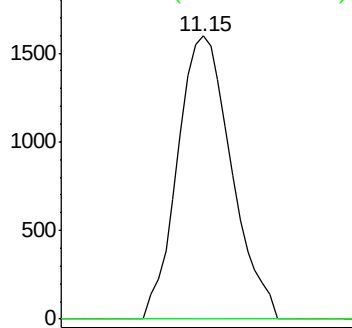
#85
 sec-Butylbenzene
 Concen: 0.380 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. -0.17 min
 Lab File: VU029166.D
 Acq: 14 Jan 2019 15:33

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:105 Resp: 2574
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 29.1#

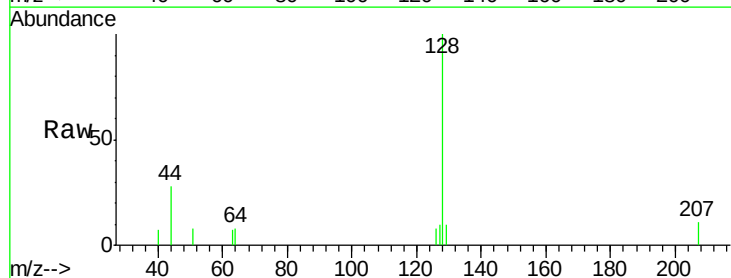


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V



#95
 Naphthalene
 Concen: 0.692 ug/l
 RT: 13.76 min Scan# 3915
 Delta R.T. 0.02 min
 Lab File: VU029166.D
 Acq: 14 Jan 2019 15:33

Tgt Ion:128 Resp: 4921
 Ion Ratio Lower Upper
 128 100
 127 6.7 10.1 15.1#
 129 2.4 8.5 12.7#



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

