

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029159.D
 Acq On : 14 Jan 2019 12:36
 Operator : JC/SP
 Sample : K1135-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:46:10 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	111208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	193647	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	177585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73321	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	74661	54.31	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.62%	
35) Dibromofluoromethane	4.88	113	65597	52.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.52%	
50) Toluene-d8	7.56	98	245280	49.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.98%	
62) 4-Bromofluorobenzene	10.30	95	77309	43.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	86.82%	

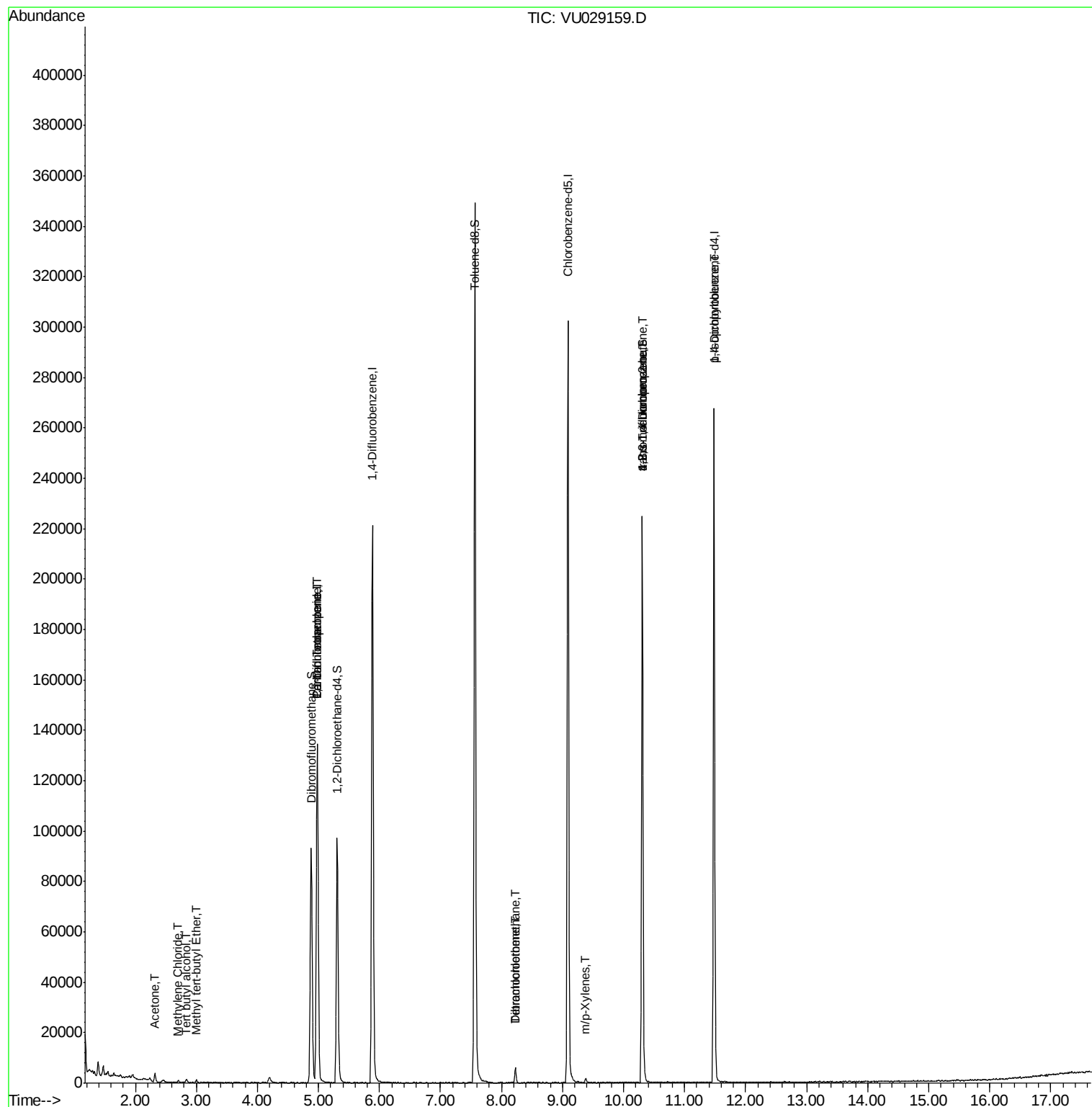
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1063	Below Cal	#	86
5) Bromomethane	1.64	94	107	Below Cal		96
11) Tert butyl alcohol	2.84	59	871	2.493	ug/l #	73
16) Acetone	2.32	43	3810	4.399	ug/l	96
17) Carbon Disulfide	2.47	76	565	Below Cal	#	75
19) Methyl tert-butyl Ether	3.00	73	1274	0.314	ug/l	95
20) Methylene Chloride	2.70	84	373	0.254	ug/l #	84
31) Cyclohexane	4.98	56	1890	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7909	4.086	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9968	6.175	ug/l #	17
60) Dibromochloromethane	8.23	129	1403	0.962	ug/l #	11
64) Tetrachloroethene	8.23	164	1528	1.194	ug/l	91
68) m/p-Xylenes	9.38	106	746	0.289	ug/l	100
76) 1,2,3-Trichloropropane	10.30	75	36789	20.478	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	36789	52.815	ug/l #	100
86) p-Isopropyltoluene	11.48	119	1088	0.236	ug/l #	78

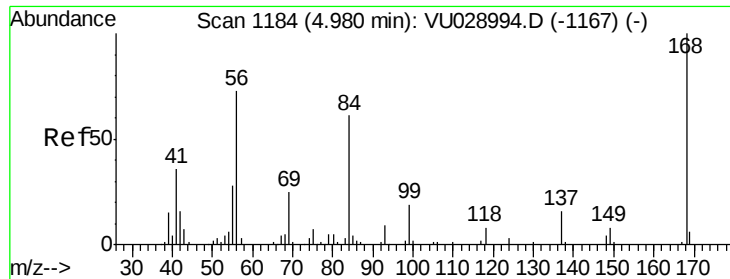
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

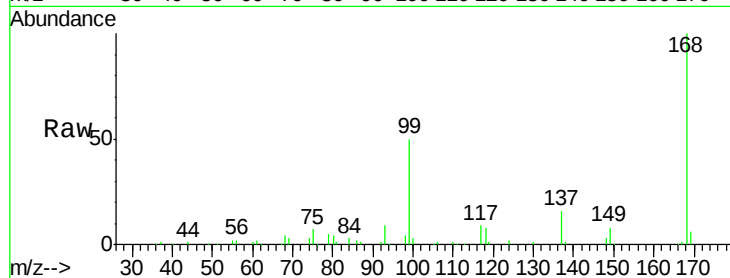
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 111208

Ion Ratio Lower Upper

168 100

99 49.9 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

50000

40000

30000

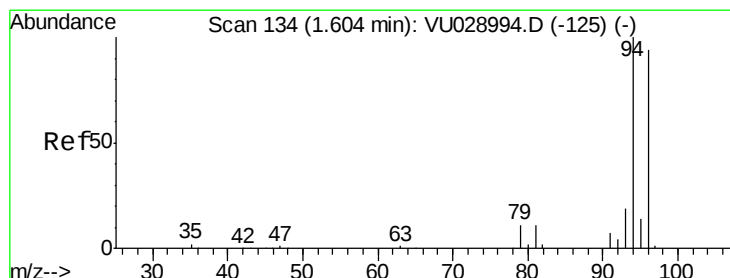
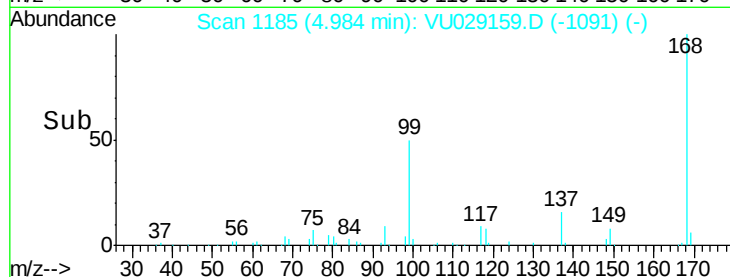
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 144

Delta R.T. 0.03 min

Lab File: VU029159.D

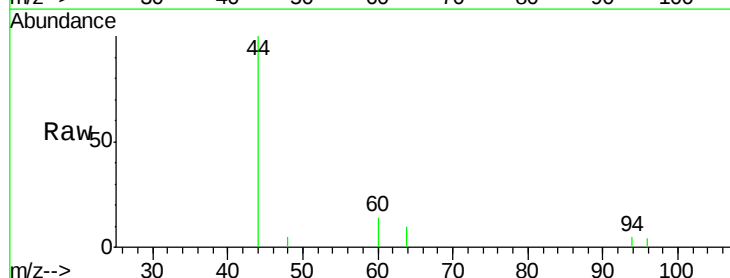
Acq: 14 Jan 2019 12:36

Tgt Ion: 94 Resp: 107

Ion Ratio Lower Upper

94 100

96 90.6 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VU028994.D (-125) (-)

Ion 95.90 (95.60 to 96.60): VU028994.D (-125) (-)

1.64

150

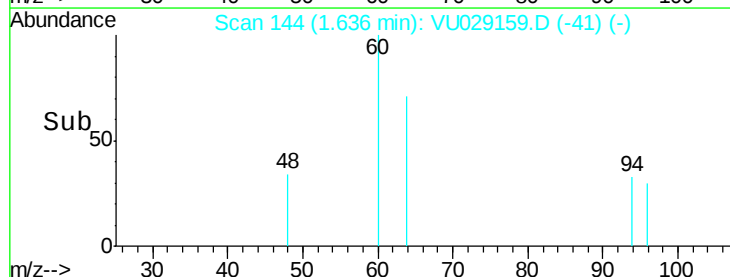
100

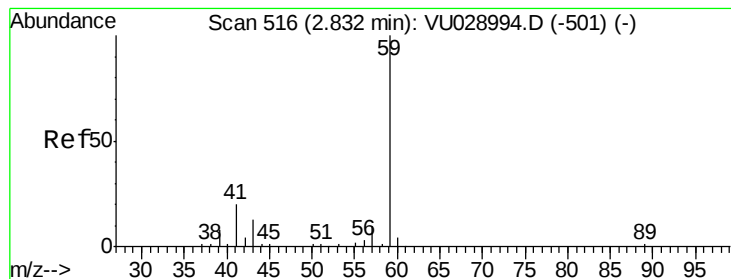
50

0

1.62 1.63 1.64 1.65 1.66

Time-->



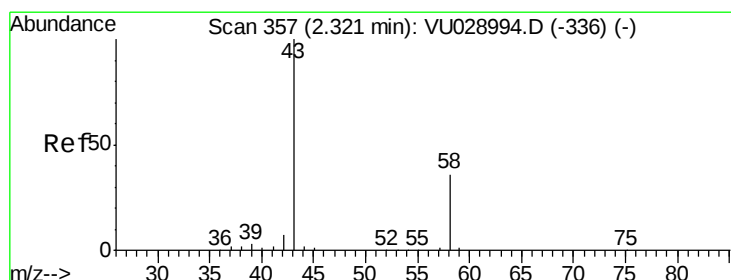
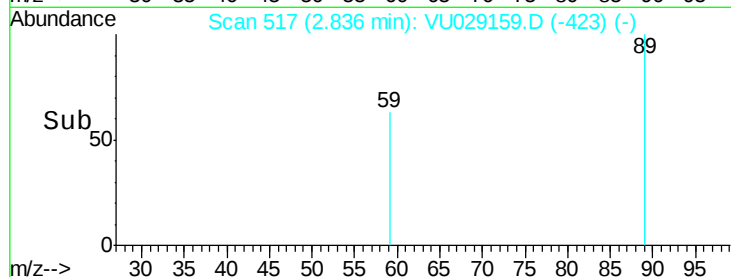
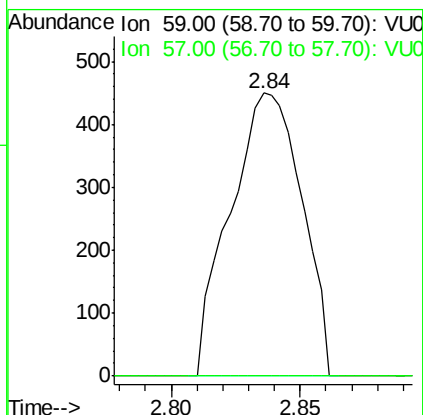
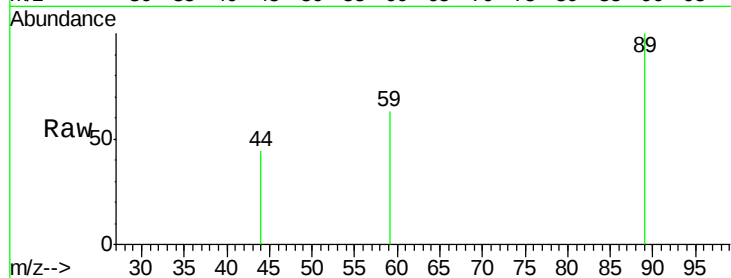


#11

Tert butyl alcohol
 Concen: 2.493 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VU029159.D
 Acq: 14 Jan 2019 12:36

Instrument :
 MSVOA_U
 ClientSampled :

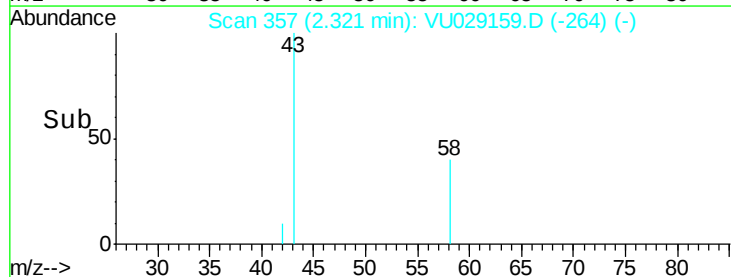
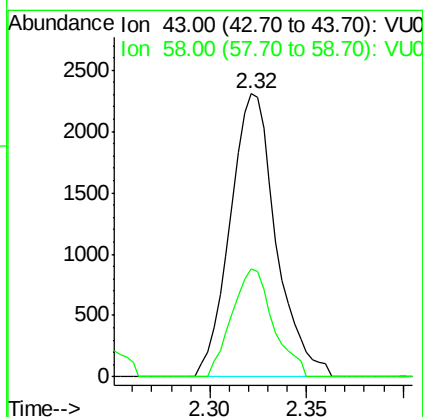
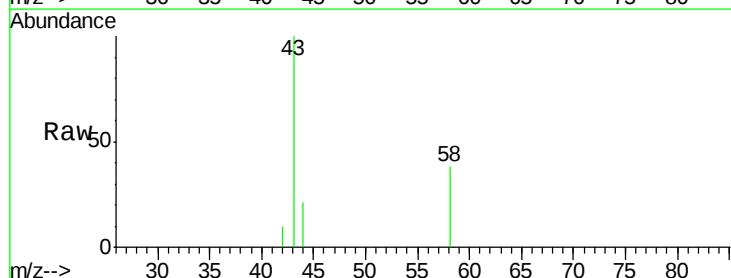
Tot Ion: 59 Resp: 871
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

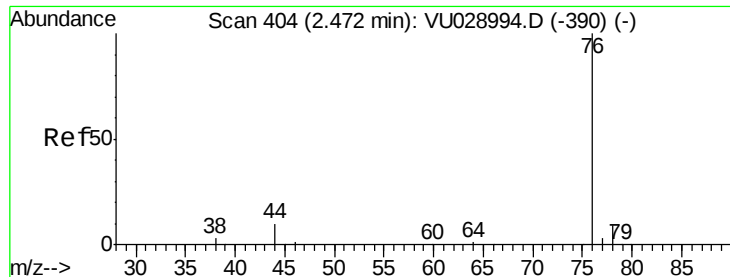


#16

Acetone
 Concen: 4.399 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. 0.00 min
 Lab File: VU029159.D
 Acq: 14 Jan 2019 12:36

Tgt Ion: 43 Resp: 3810
 Ion Ratio Lower Upper
 43 100
 58 38.1 28.6 42.8





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.47 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

Instrument :

MSVOA_U

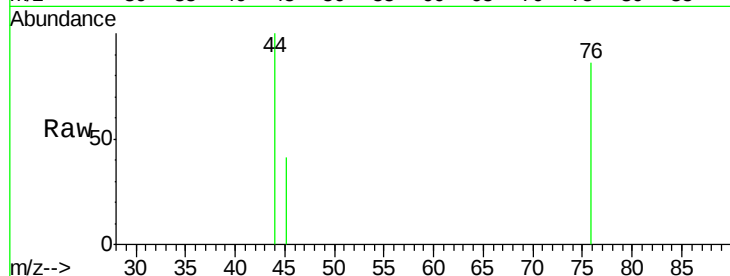
ClientSampleId :

Tot Ion: 76 Resp: 565

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.47

400

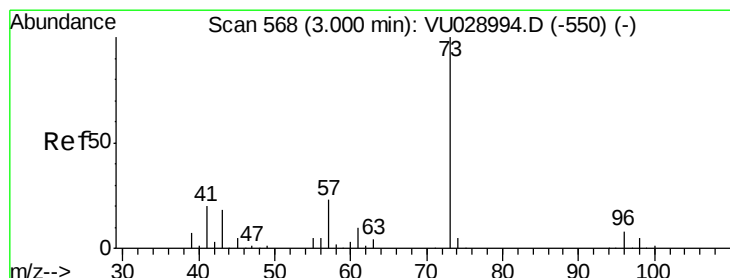
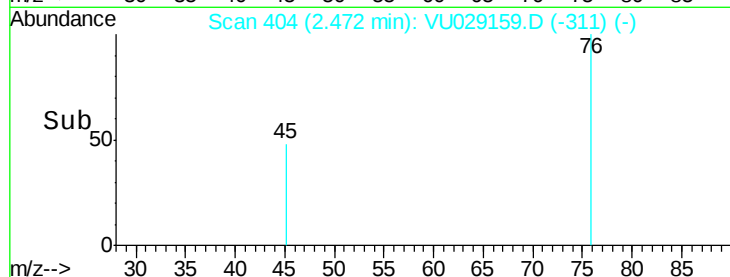
300

200

100

0

Time-->



#19

Methyl tert-butyl Ether

Concen: 0.314 ug/l

RT: 3.00 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU029159.D

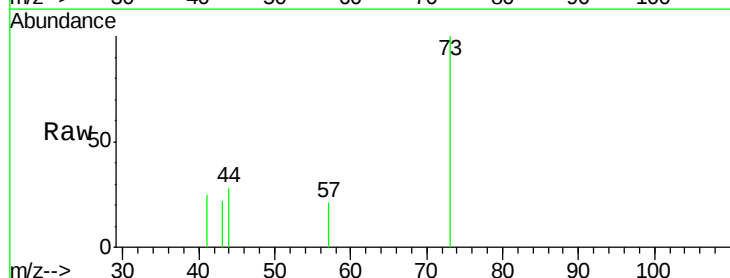
Acq: 14 Jan 2019 12:36

Tgt Ion: 73 Resp: 1274

Ion Ratio Lower Upper

73 100

57 21.0 18.6 28.0



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

800

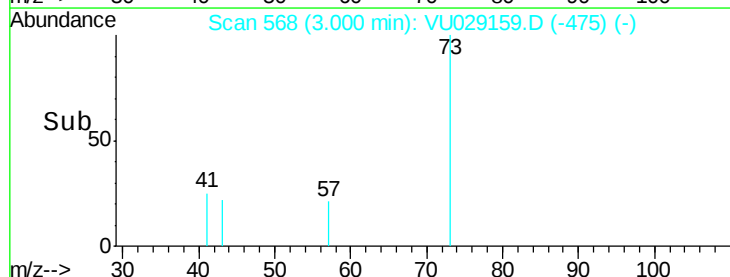
600

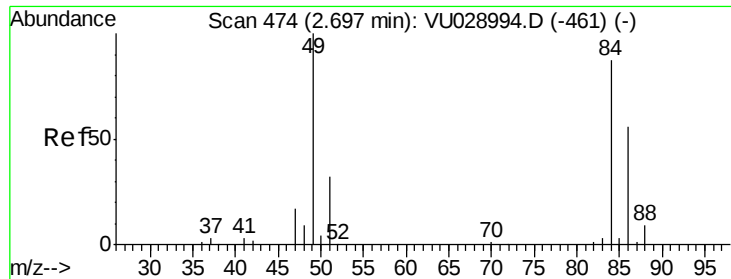
400

200

0

Time-->





#20

Methvlene Chloride

Concen: 0.254 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 84 Resp: 373

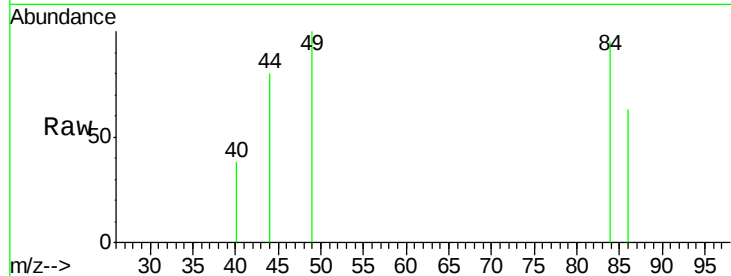
Ion Ratio Lower Upper

84 100

49 105.4 91.9 137.9

51 0.0 29.2 43.8#

86 66.2 51.8 77.6

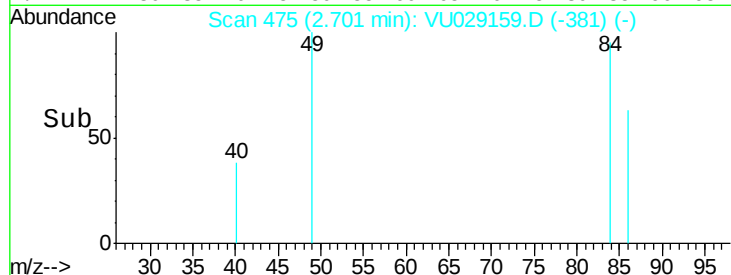
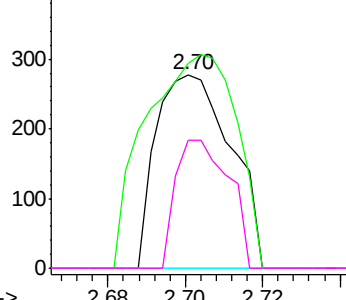


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

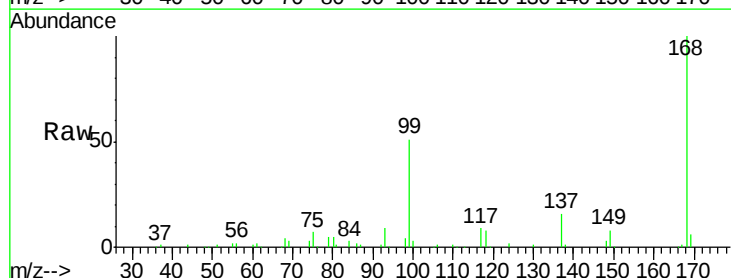
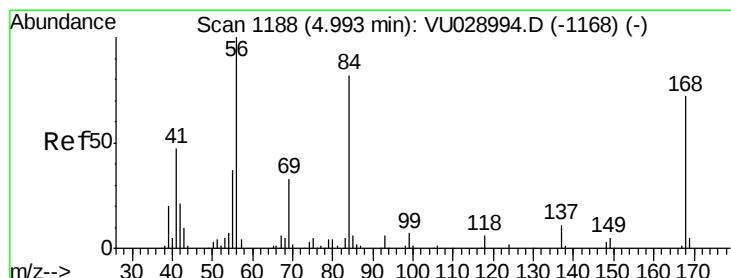
Tgt Ion: 56 Resp: 1890

Ion Ratio Lower Upper

56 100

69 180.8 26.7 40.1#

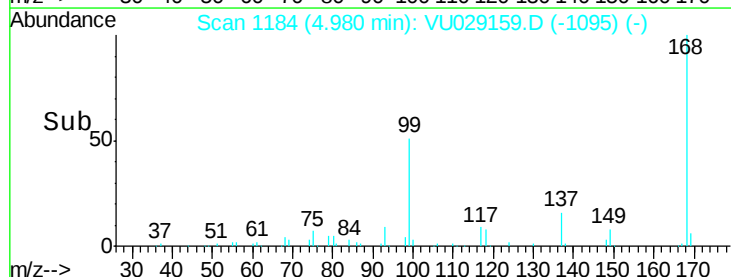
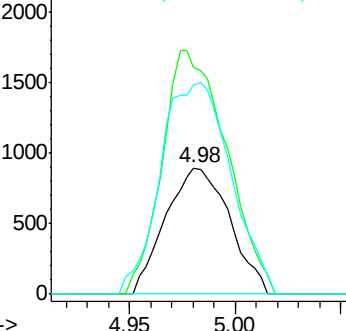
84 165.8 65.7 98.5#

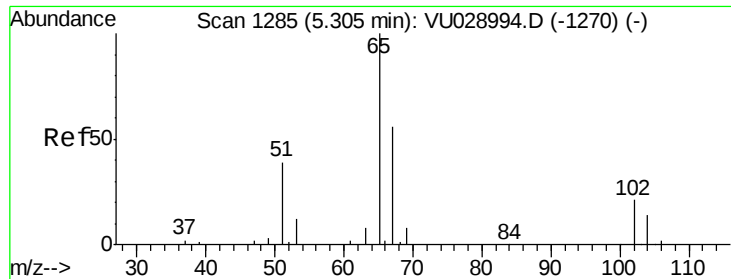


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

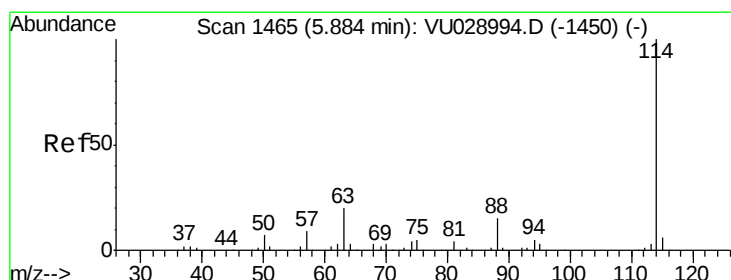
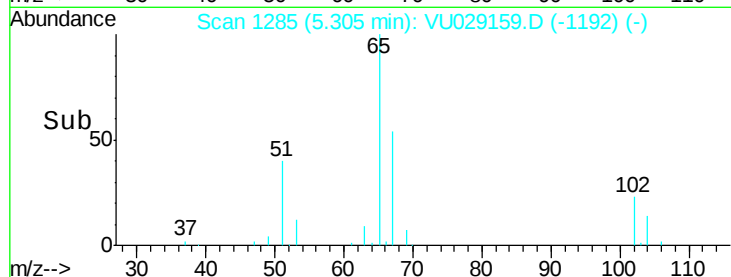
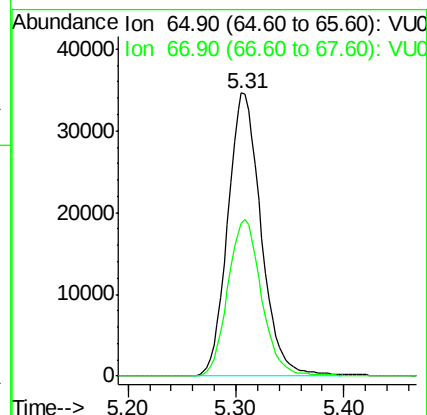
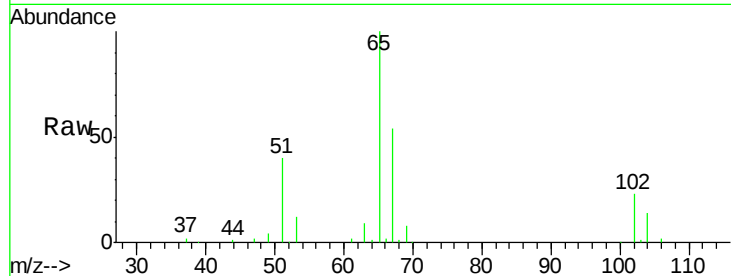




#33
 1,2-Dichloroethane-d4
 Concen: 54.309 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029159.D
 Acq: 14 Jan 2019 12:36

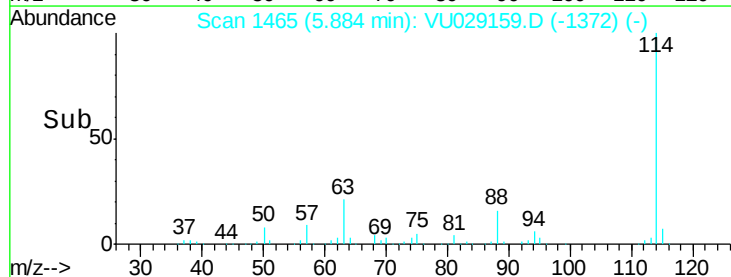
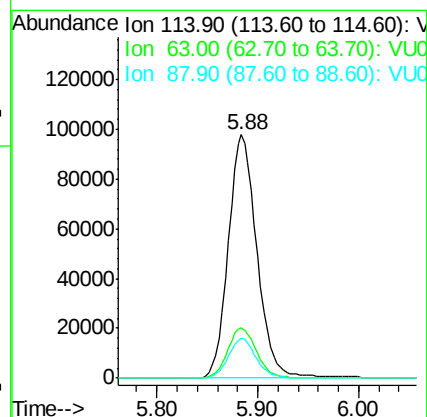
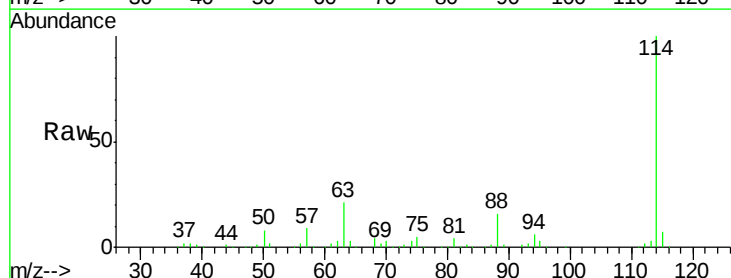
Instrument :
 MSVOA_U
 ClientSampleId :

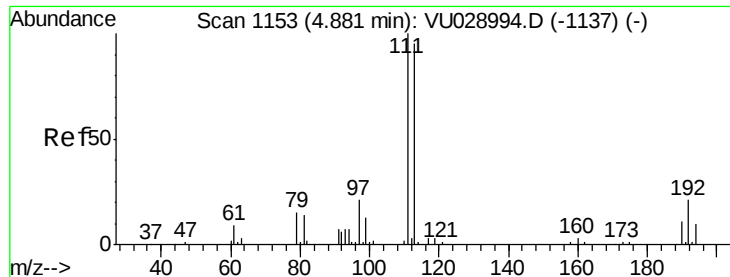
Tot Ion: 65 Resp: 74661
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029159.D
 Acq: 14 Jan 2019 12:36

Tgt Ion: 114 Resp: 193647
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.2
 88 16.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.257 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :

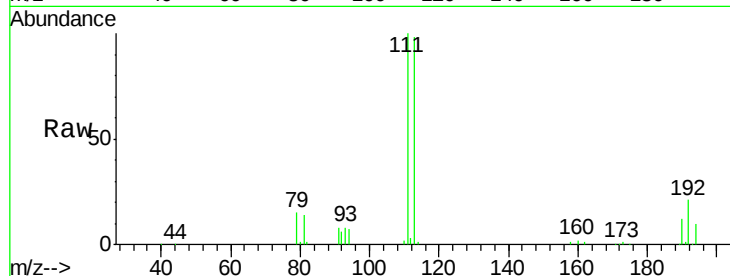
Tot Ion:113 Resp: 65597

Ion Ratio Lower Upper

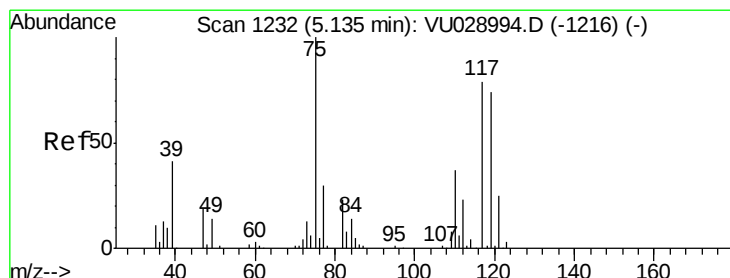
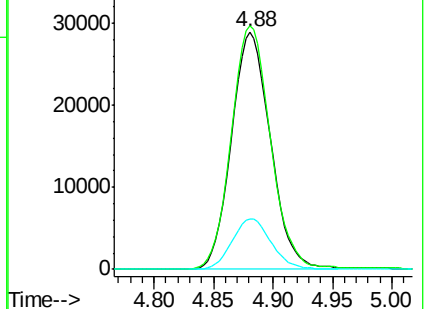
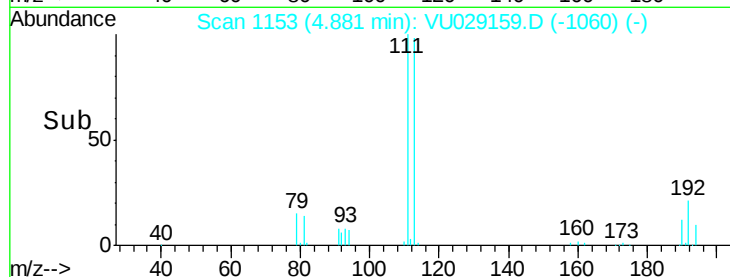
113 100

111 103.4 81.4 122.2

192 21.3 16.8 25.2



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



#36

1,1-Dichloropropene

Concen: 4.086 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.15 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

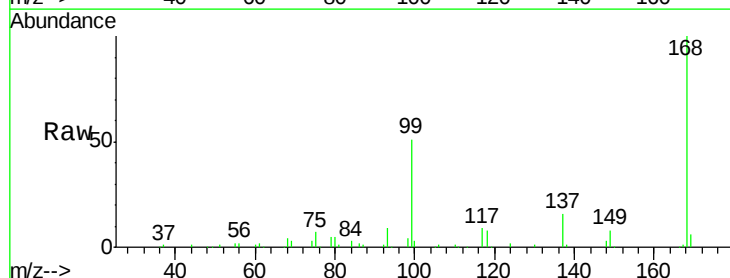
Tgt Ion: 75 Resp: 7909

Ion Ratio Lower Upper

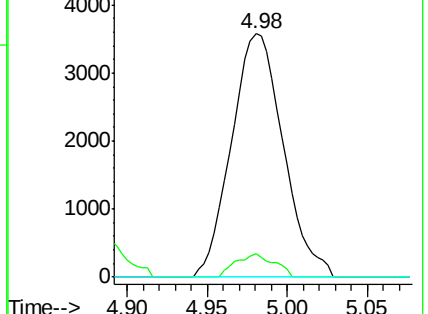
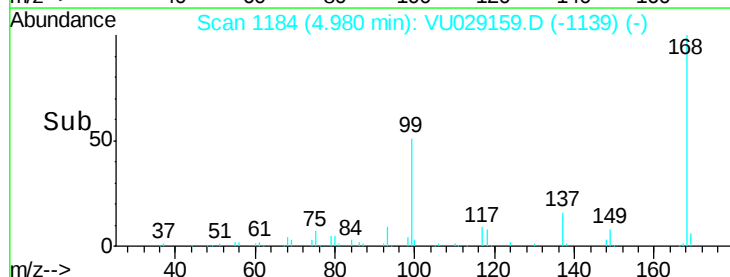
75 100

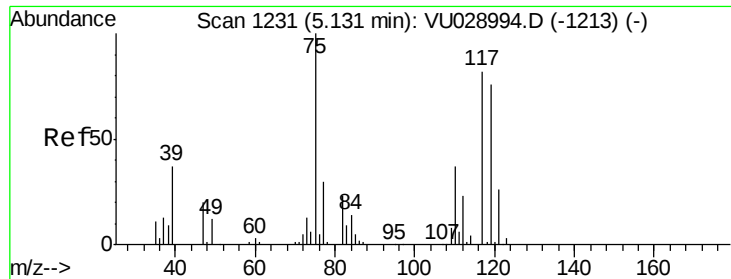
110 7.0 18.4 55.4#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VU0

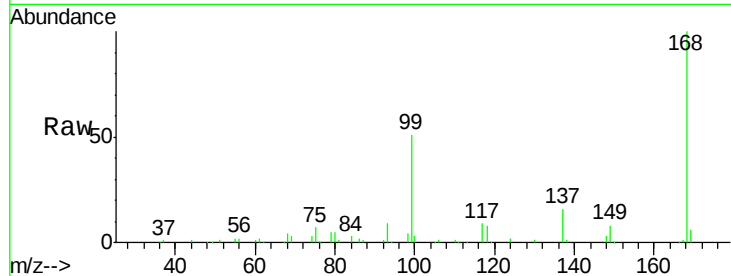




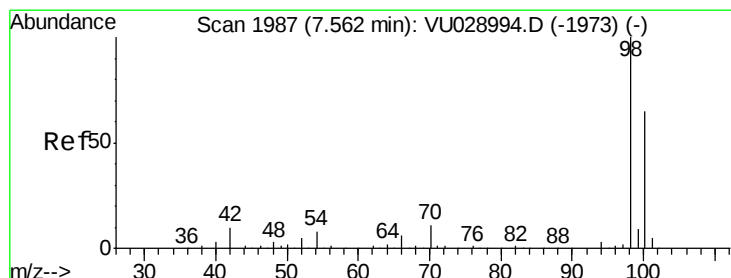
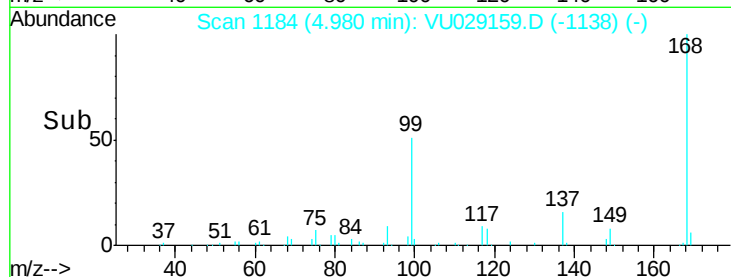
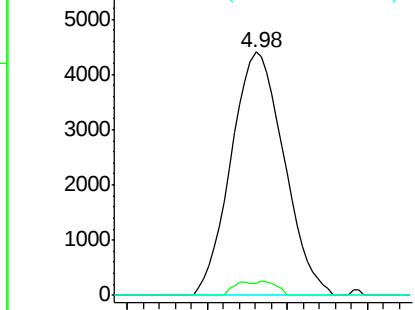
#38
Carbon Tetrachloride
Concen: 6.175 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.15 min
Lab File: VU029159.D
Acq: 14 Jan 2019 12:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 9968
Ion Ratio Lower Upper
117 100
119 5.0 74.6 111.8#
121 0.0 25.0 37.6#

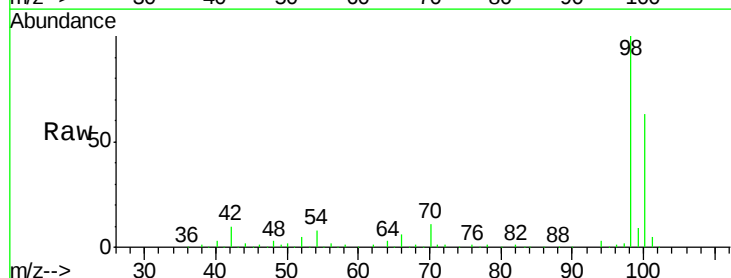


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

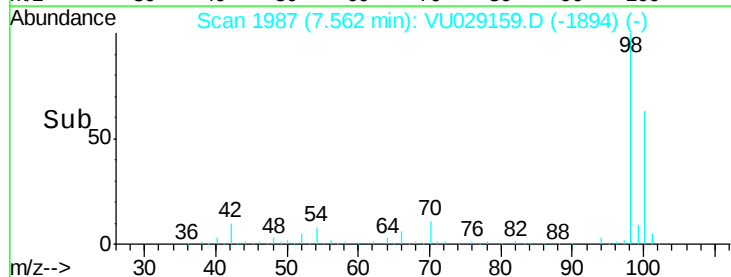
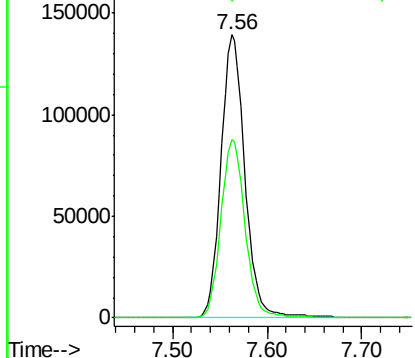


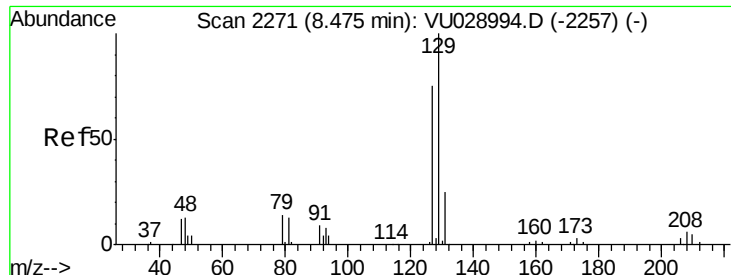
#50
Toluene-d8
Concen: 49.495 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029159.D
Acq: 14 Jan 2019 12:36

Tgt Ion: 98 Resp: 245280
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU





#60

Dibromochloromethane

Concen: 0.962 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

Instrument :

MSVOA_U

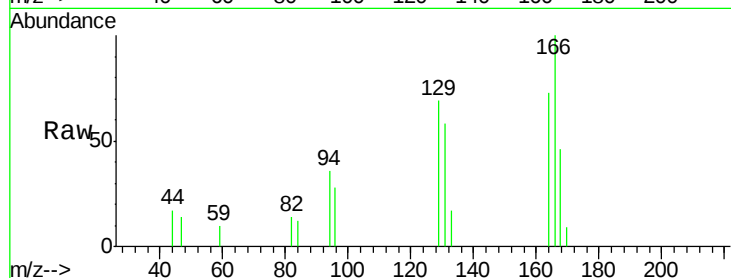
ClientSampleId :

Tot Ion:129 Resp: 1403

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#

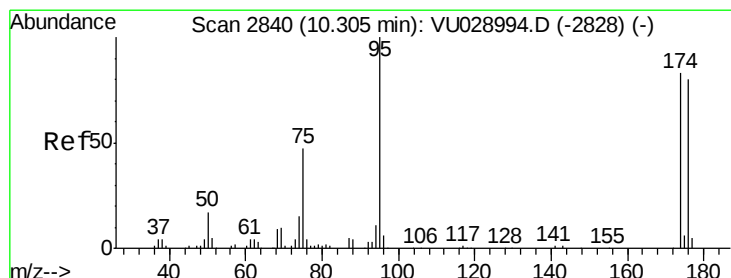
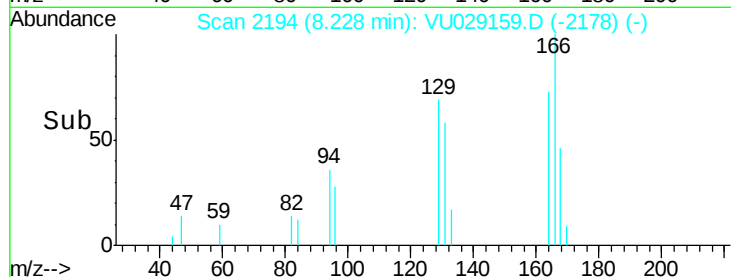


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.23

Time-->



#62

4-Bromofluorobenzene

Concen: 43.408 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

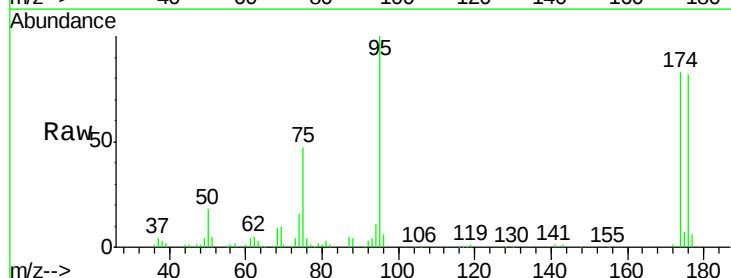
Tgt Ion: 95 Resp: 77309

Ion Ratio Lower Upper

95 100

174 84.9 0.0 170.6

176 82.0 0.0 165.0



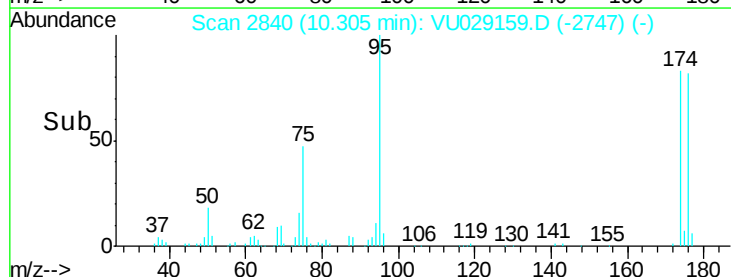
Abundance Ion 94.90 (94.60 to 95.60): VU0

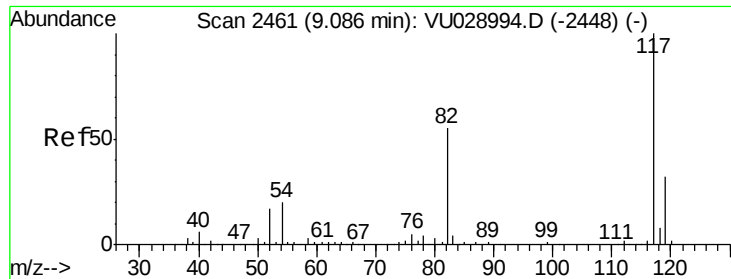
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.30

Time-->

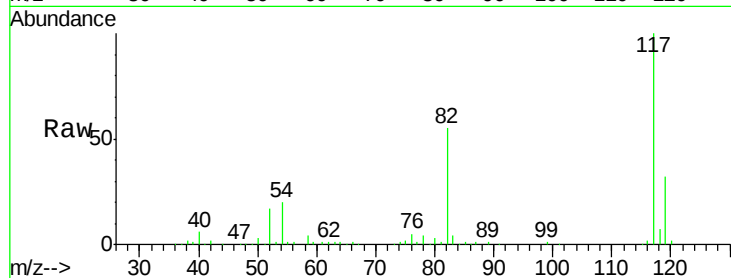




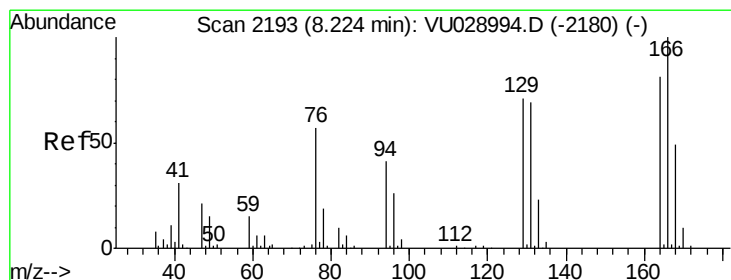
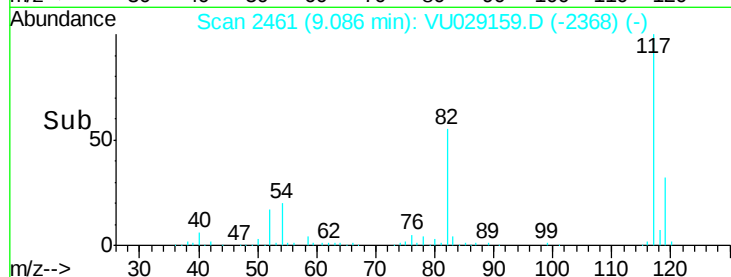
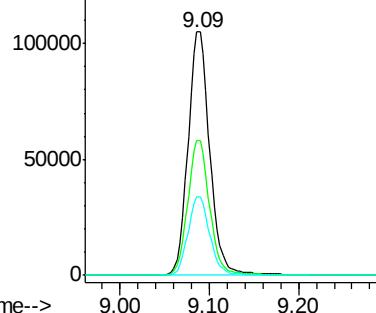
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029159.D
Acq: 14 Jan 2019 12:36

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 177585
Ion Ratio Lower Upper
117 100
82 55.5 43.9 65.9
119 32.5 26.0 39.0

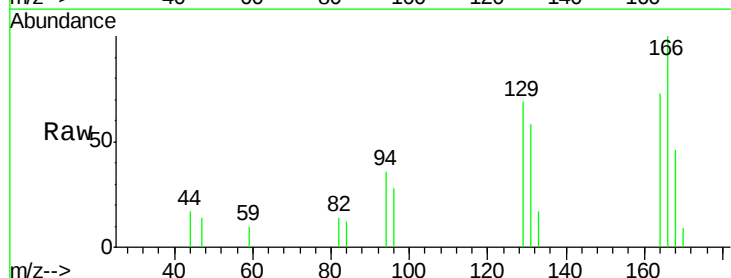


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

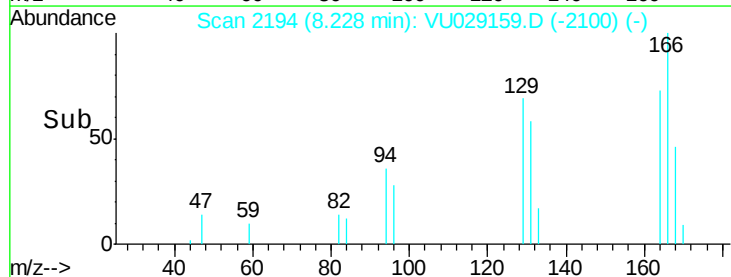
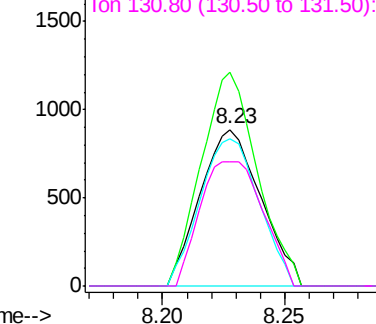


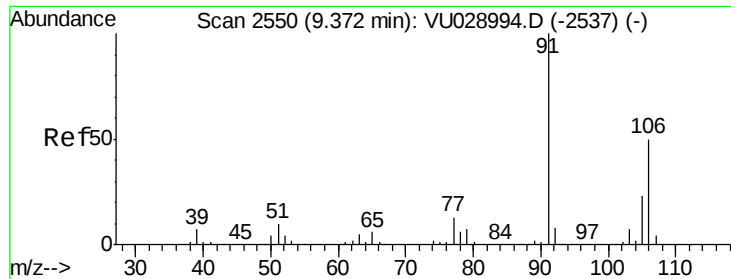
#64
Tetrachloroethene
Concen: 1.194 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU029159.D
Acq: 14 Jan 2019 12:36

Tgt Ion:164 Resp: 1528
Ion Ratio Lower Upper
164 100
166 136.3 99.4 149.0
129 94.2 70.5 105.7
131 79.3 69.0 103.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

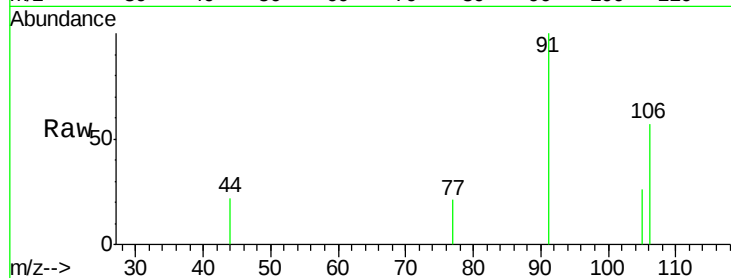




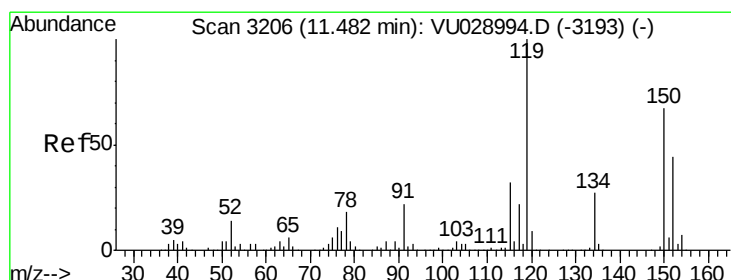
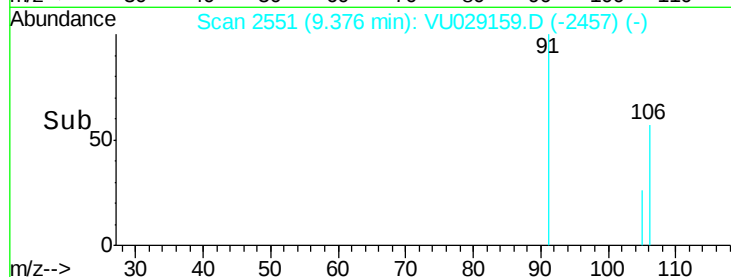
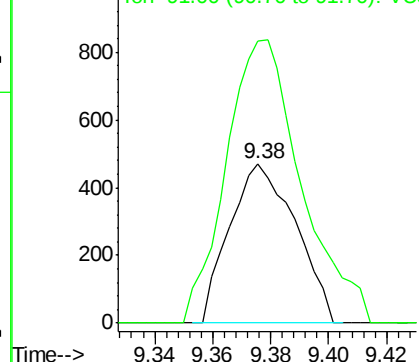
#68
m/p-Xvlenes
Concen: 0.289 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU029159.D
Acq: 14 Jan 2019 12:36

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 746
Ion Ratio Lower Upper
106 100
91 201.7 161.7 242.5

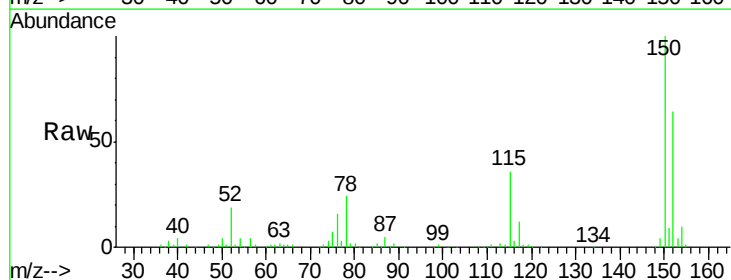


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

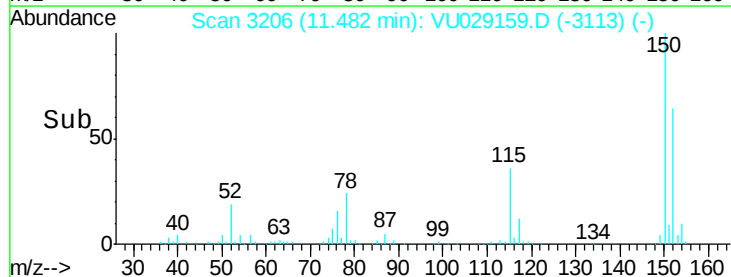
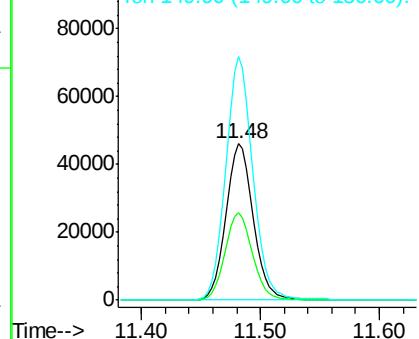


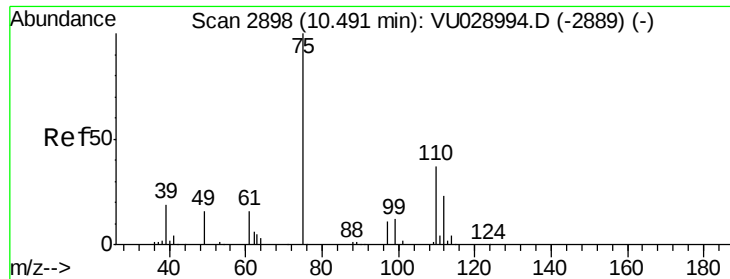
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029159.D
Acq: 14 Jan 2019 12:36

Tgt Ion:152 Resp: 73321
Ion Ratio Lower Upper
152 100
115 56.3 40.1 120.3
150 154.6 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: 20.478 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

Instrument :

MSVOA_U

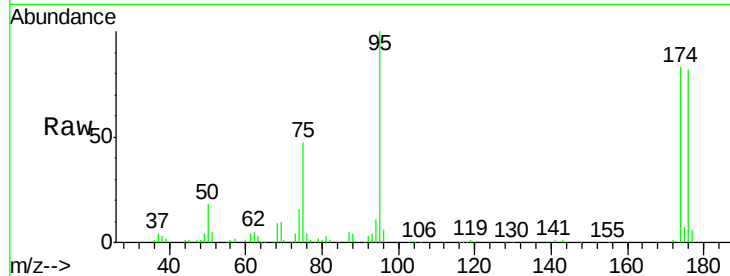
ClientSampled :

Tot Ion: 75 Resp: 36789

Ion Ratio Lower Upper

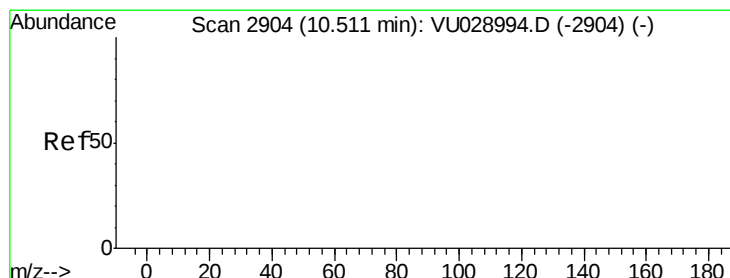
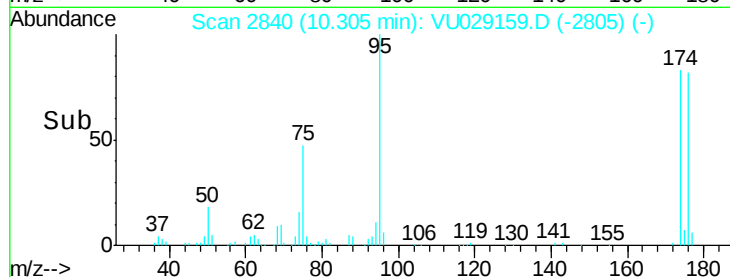
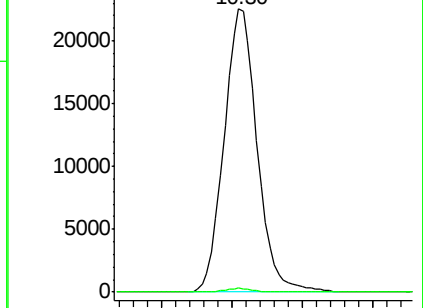
75 100

77 1.0 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: 52.815 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029159.D

Acq: 14 Jan 2019 12:36

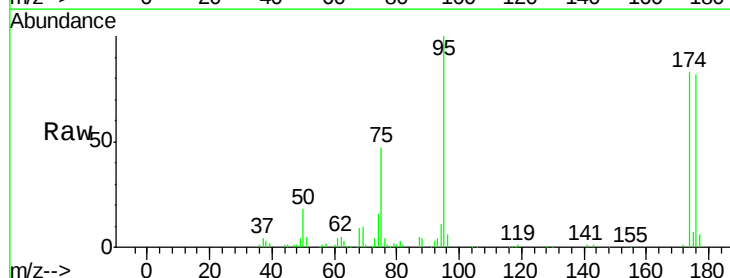
Tgt Ion: 75 Resp: 36789

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

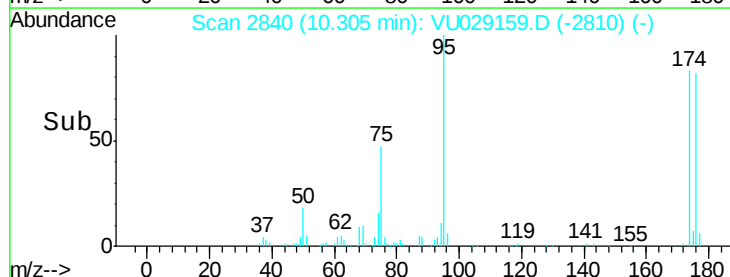
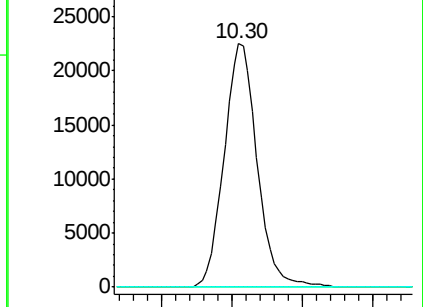
89 0.0 0.0 0.0

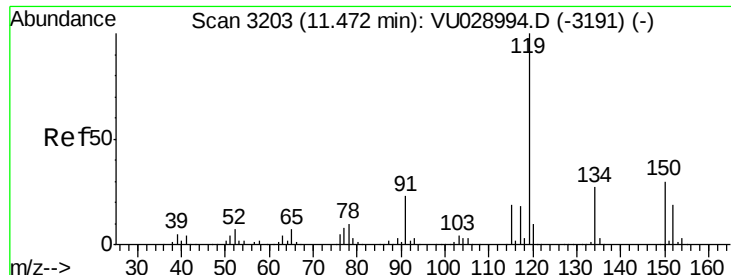


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#86
 p-Isopropyltoluene
 Concen: 0.236 ug/l
 RT: 11.48 min Scan# 3205
 Delta R.T. 0.01 min
 Lab File: VU029159.D
 Acq: 14 Jan 2019 12:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	20.8	13.5	40.4
91	39.1	11.3	33.8

