

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029155.D
 Acq On : 14 Jan 2019 10:59
 Operator : JC/SP
 Sample : K1135-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:45:10 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	119185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	206373	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	191192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	76161	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	78883	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	
35) Dibromofluoromethane	4.88	113	69133	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
50) Toluene-d8	7.56	98	261612	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
62) 4-Bromofluorobenzene	10.30	95	81628	43.01	ug/l	0.00
Spiked Amount			Recovery	=	86.02%	

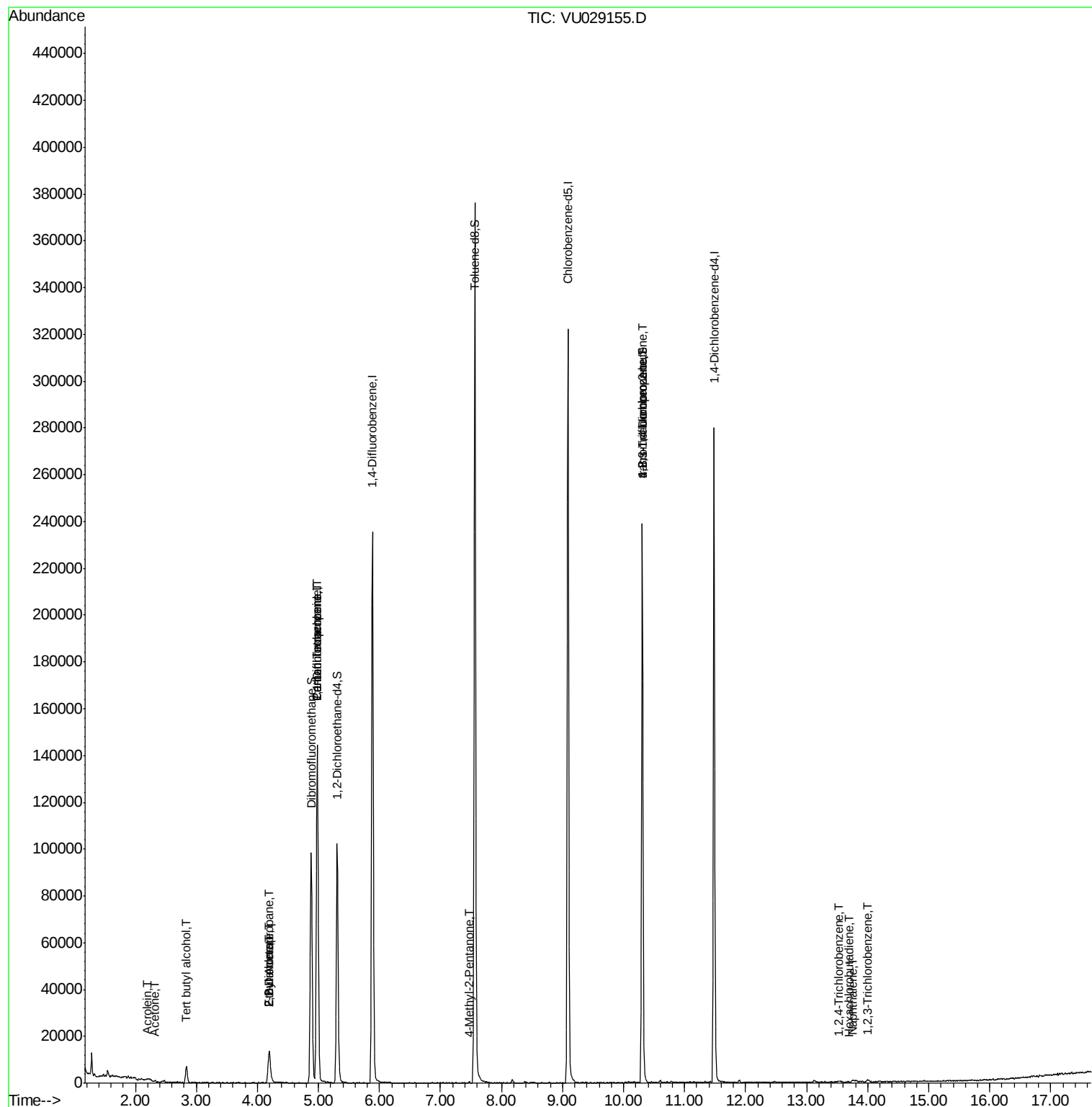
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	869	Below Cal		98
5) Bromomethane	1.63	94	176	Below Cal	#	77
11) Tert butyl alcohol	2.84	59	4309	11.506	ug/l #	73
13) Acrolein	2.20	56	112	0.398	ug/l #	14
16) Acetone	2.32	43	861	0.928	ug/l #	86
17) Carbon Disulfide	2.48	76	763	Below Cal	#	71
25) 2-Butanone	4.19	43	460	0.367	ug/l #	47
26) 2,2-Dichloropropane	4.20	77	914	0.437	ug/l #	51
31) Cyclohexane	4.99	56	2051	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8495	4.118	ug/l #	46
37) Ethyl Acetate	4.19	43	460	0.203	ug/l #	16
38) Carbon Tetrachloride	4.98	117	10567	6.142	ug/l #	17
51) 4-Methyl-2-Pentanone	7.47	43	564	0.239	ug/l #	73
76) 1,2,3-Trichloropropane	10.30	75	39734	21.293	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	39734	54.916	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	445	0.257	ug/l #	83
94) Hexachlorobutadiene	13.69	225	170	0.215	ug/l #	19
95) Naphthalene	13.76	128	1785	0.303	ug/l #	70
96) 1,2,3-Trichlorobenzene	13.99	180	333	0.959	ug/l #	57

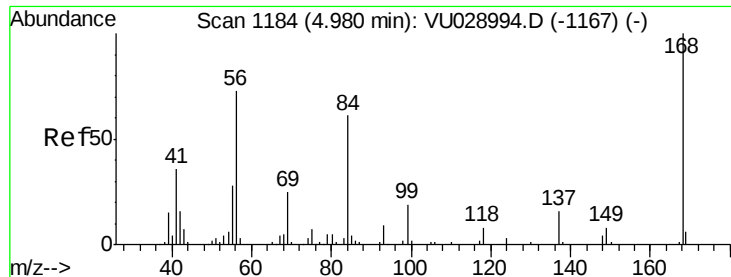
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029155.D

Acq: 14 Jan 2019 10:59

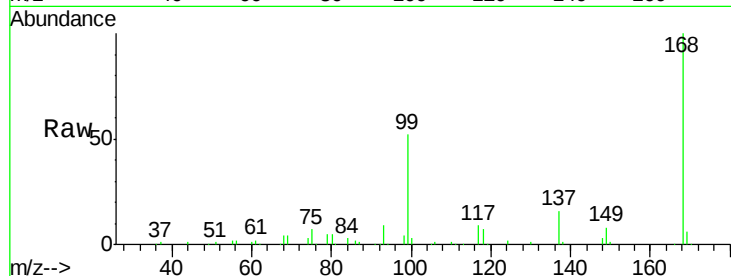
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 119185

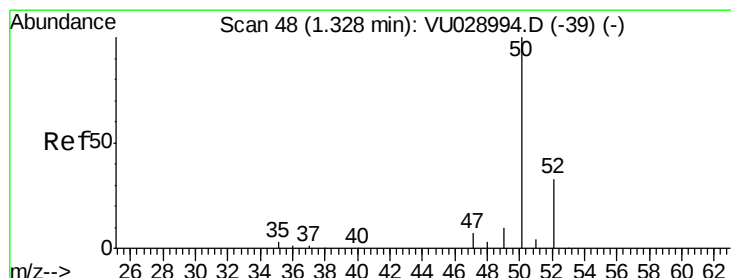
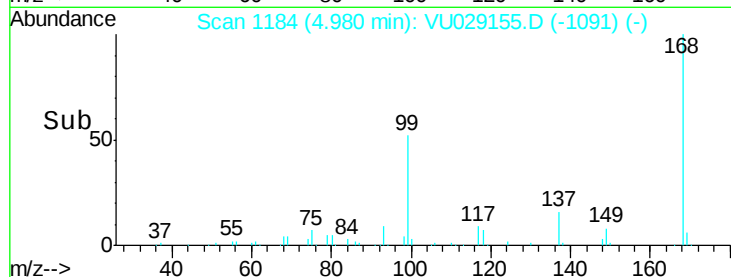
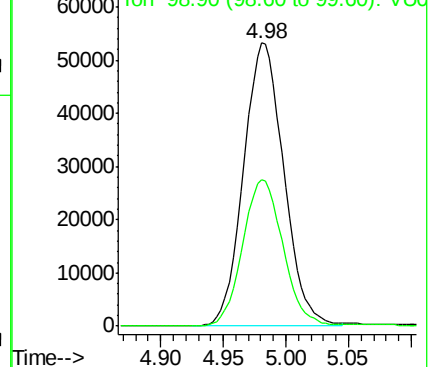
Ion Ratio Lower Upper

168 100

99 51.7 42.0 63.0



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



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029155.D

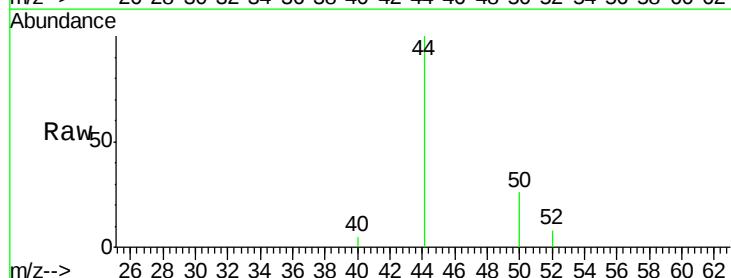
Acq: 14 Jan 2019 10:59

Tgt Ion: 50 Resp: 869

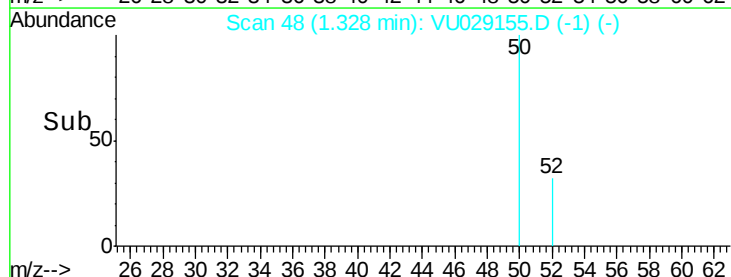
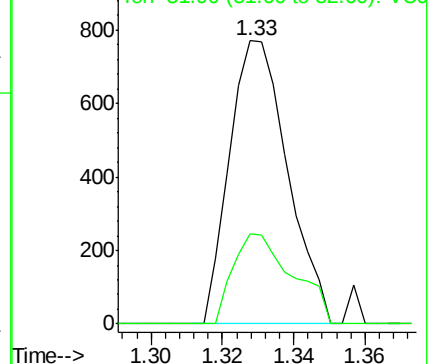
Ion Ratio Lower Upper

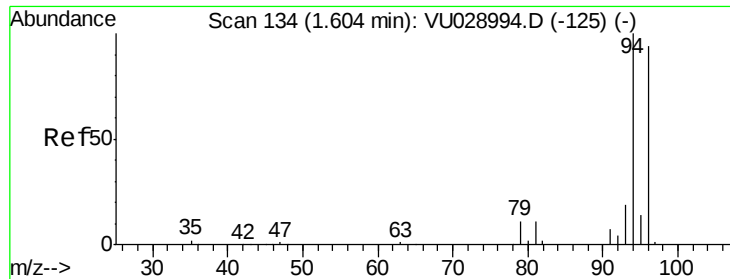
50 100

52 31.6 26.1 39.1



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





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 143

Delta R.T. 0.03 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

Instrument :

MSVOA_U

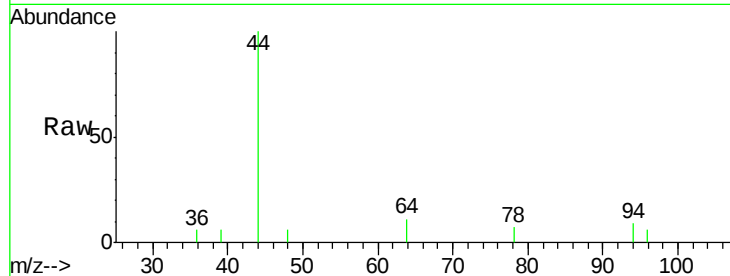
ClientSampled :

Tot Ion: 94 Resp: 176

Ion Ratio Lower Upper

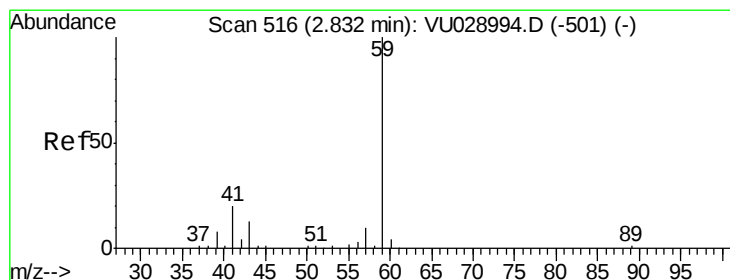
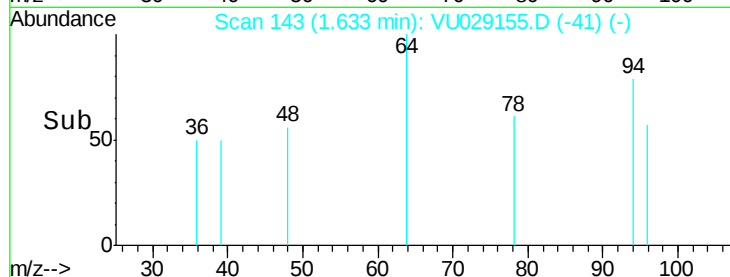
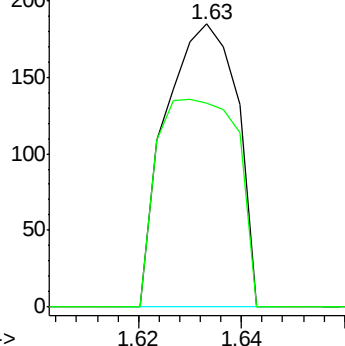
94 100

96 71.9 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: 11.506 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU029155.D

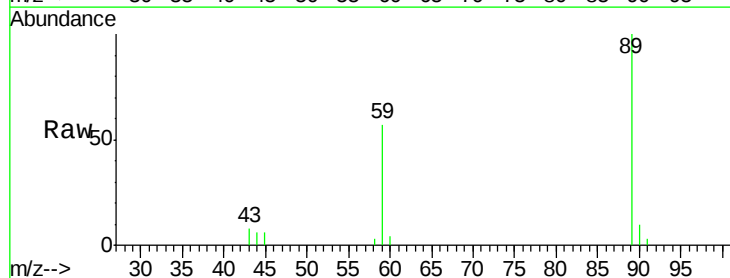
Acq: 14 Jan 2019 10:59

Tgt Ion: 59 Resp: 4309

Ion Ratio Lower Upper

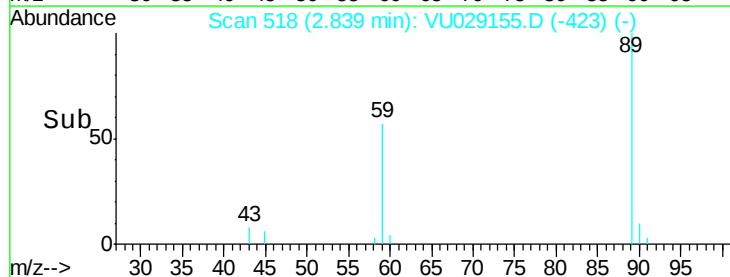
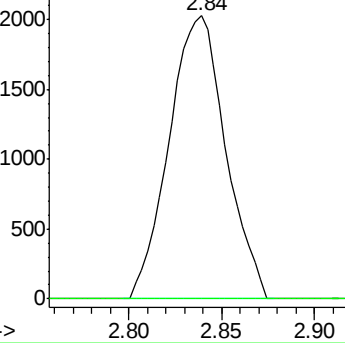
59 100

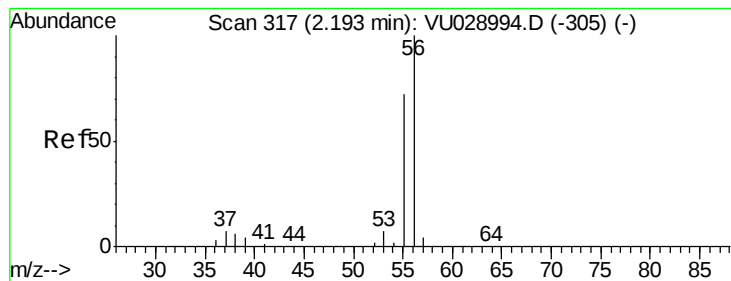
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.398 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

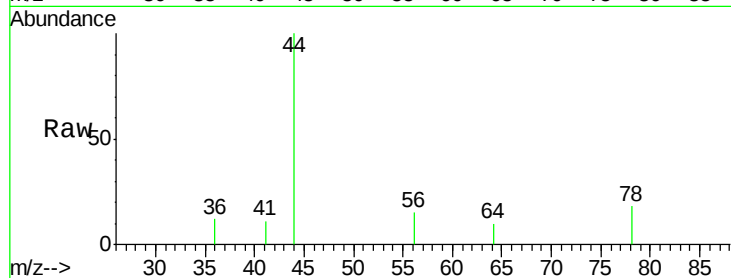
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 112

Ion Ratio Lower Upper

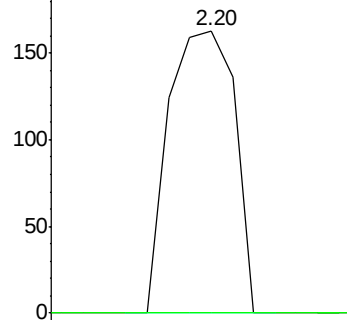
56 100

55 0.0 56.5 84.7#

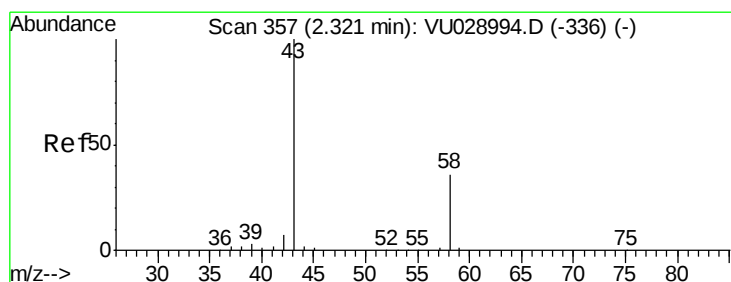
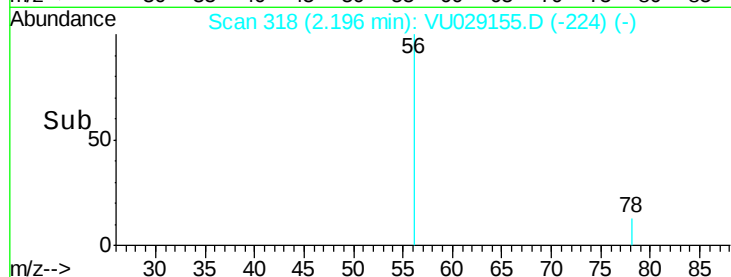


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



Time-->



#16

Acetone

Concen: 0.928 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029155.D

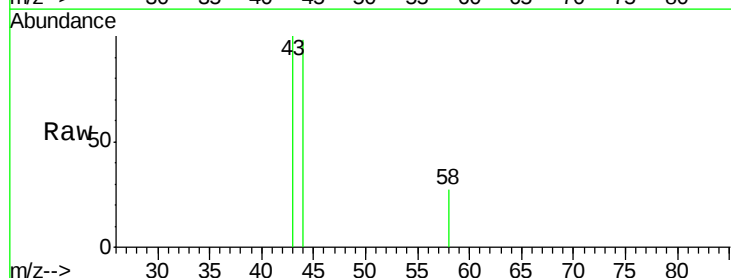
Acq: 14 Jan 2019 10:59

Tgt Ion: 43 Resp: 861

Ion Ratio Lower Upper

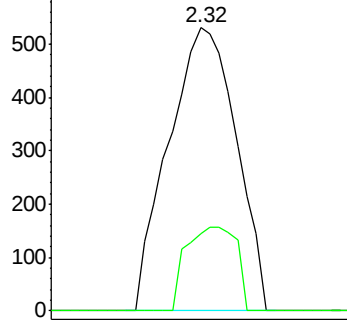
43 100

58 27.3 28.6 42.8#

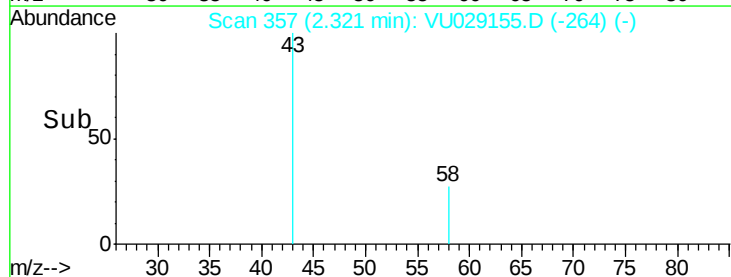


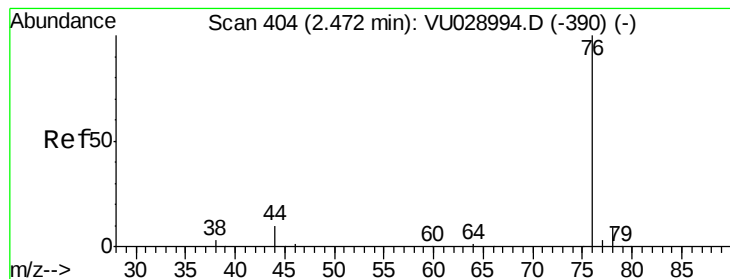
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

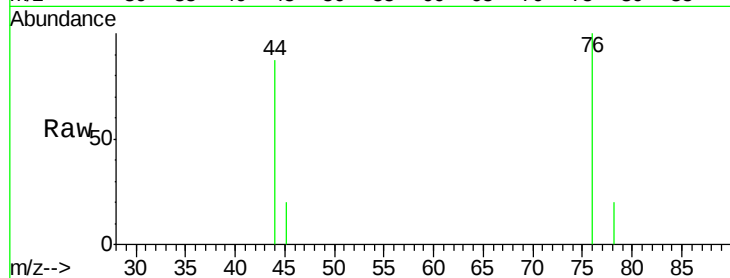
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 76 Resp: 763

Ion Ratio Lower Upper

76 100

78 19.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

600

500

400

300

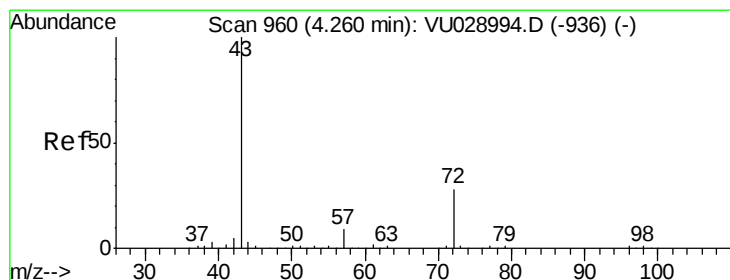
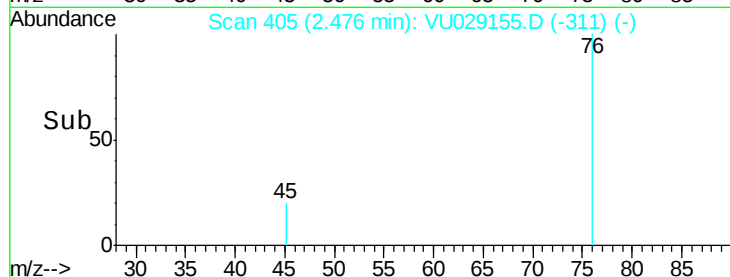
200

100

0

2.44 2.46 2.48 2.50

Time-->



#25

2-Butanone

Concen: 0.367 ug/l

RT: 4.19 min Scan# 939

Delta R.T. -0.07 min

Lab File: VU029155.D

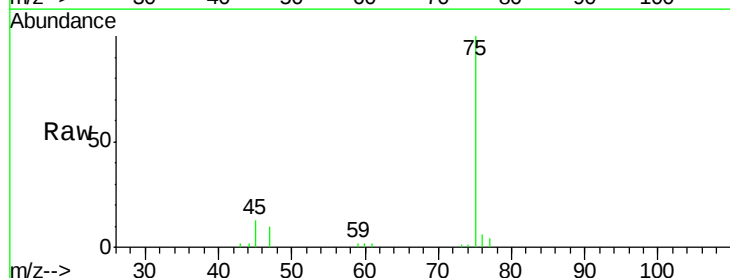
Acq: 14 Jan 2019 10:59

Tgt Ion: 43 Resp: 460

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

4.19

250

200

150

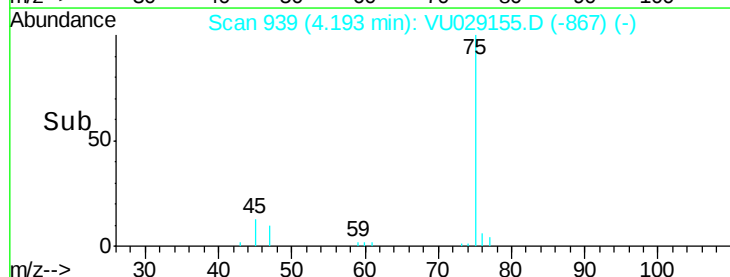
100

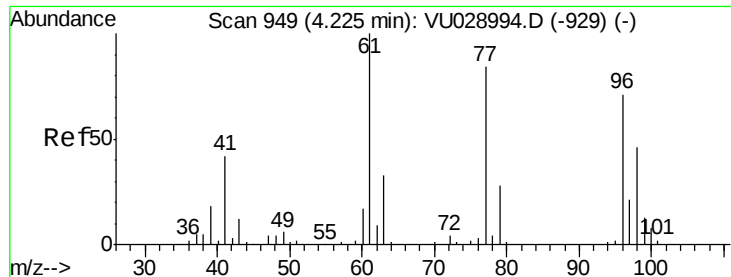
50

0

4.15 4.20

Time-->

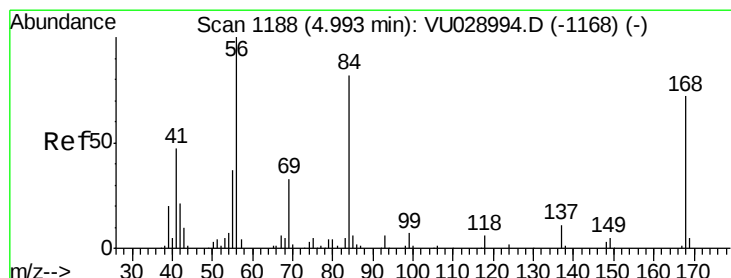
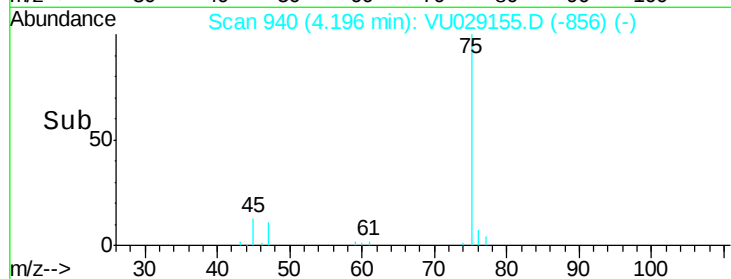
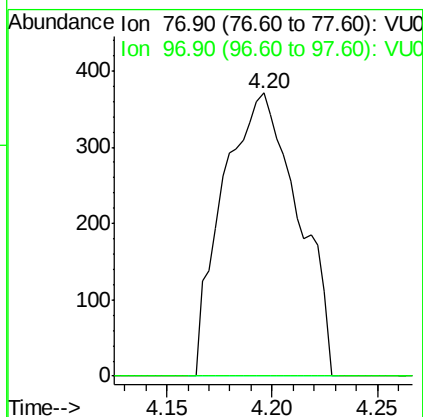
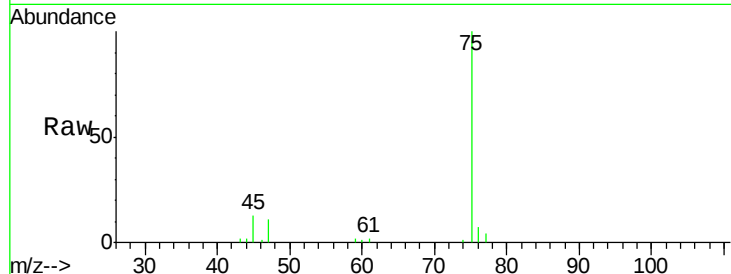




#26
 2,2-Dichloropropane
 Concen: 0.437 ug/l
 RT: 4.20 min Scan# 940
 Delta R.T. -0.03 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

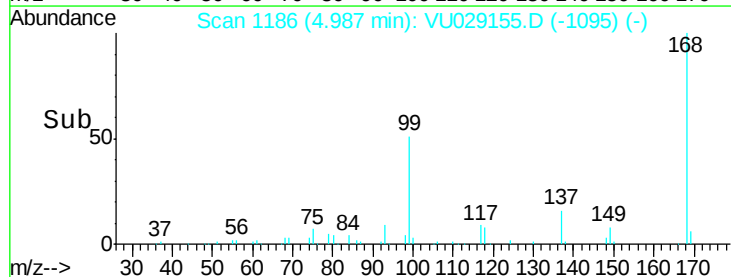
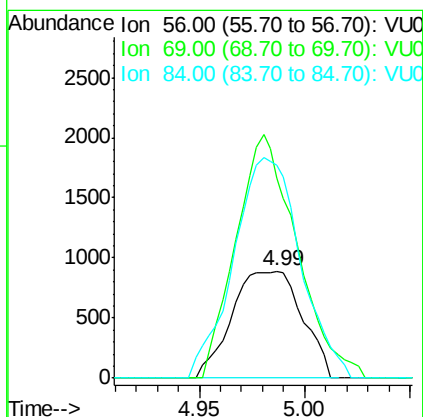
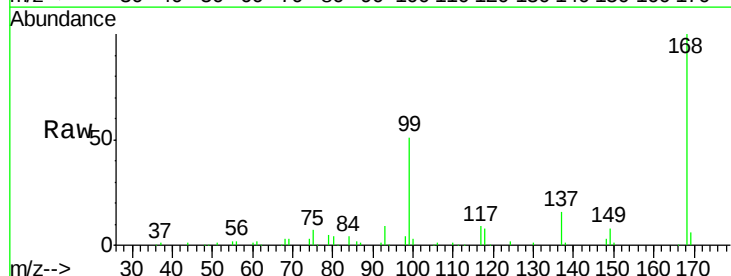
Instrument :
 MSVOA_U
 ClientSampleId :

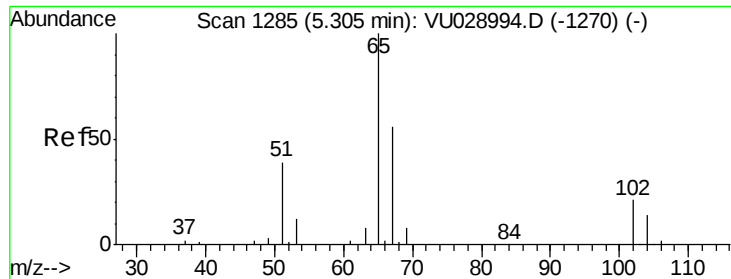
Tot Ion: 77 Resp: 914
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.0 36.1#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

Tgt Ion: 56 Resp: 2051
 Ion Ratio Lower Upper
 56 100
 69 187.6 26.7 40.1#
 84 198.7 65.7 98.5#

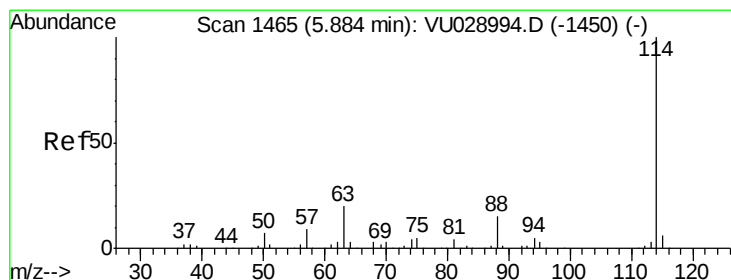
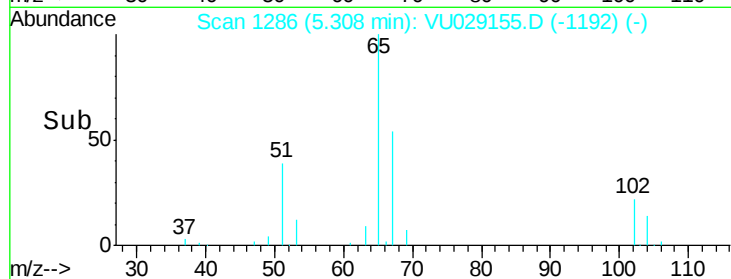
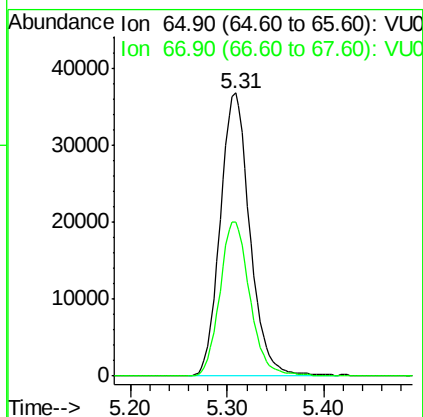
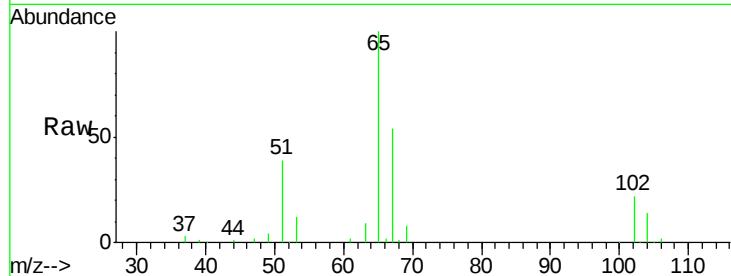




#33
 1,2-Dichloroethane-d4
 Concen: 53.539 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

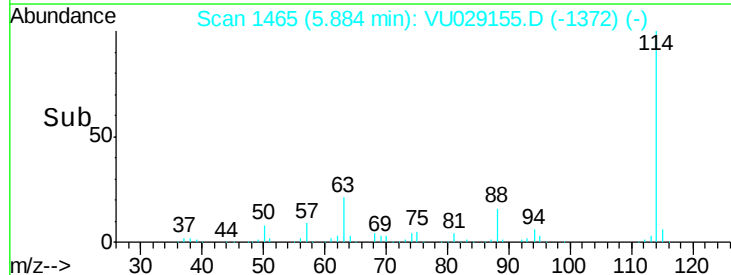
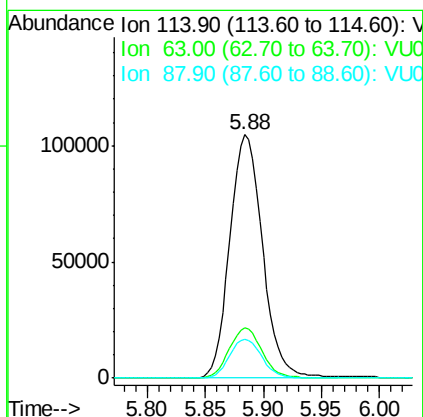
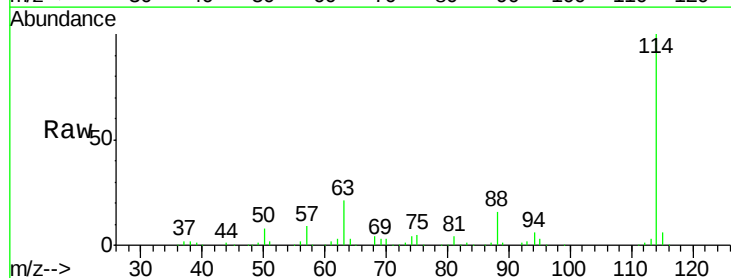
Instrument :
 MSVOA_U
 ClientSampleId :

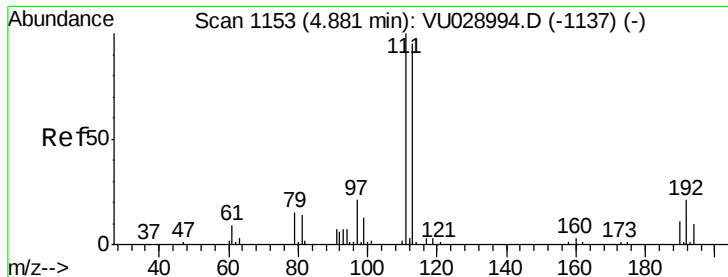
Tot Ion: 65 Resp: 78883
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

Tgt Ion: 114 Resp: 206373
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.2
 88 15.9 0.0 30.4

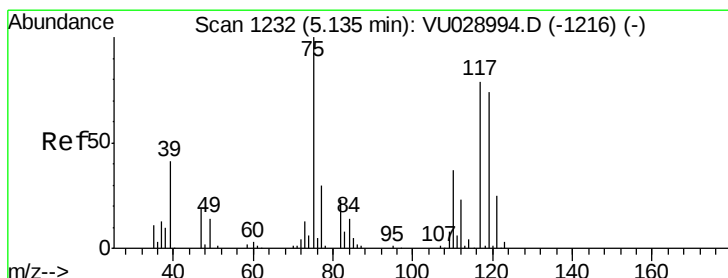
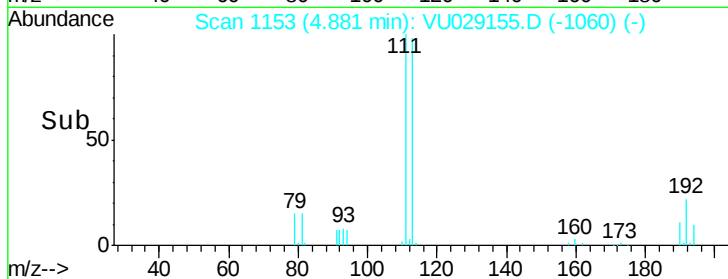
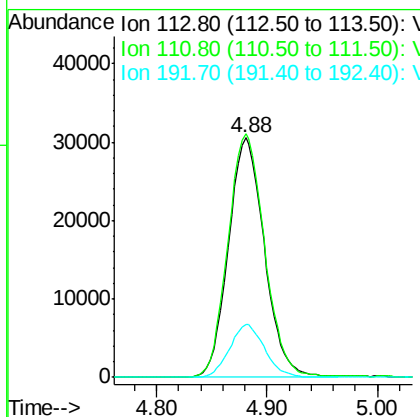
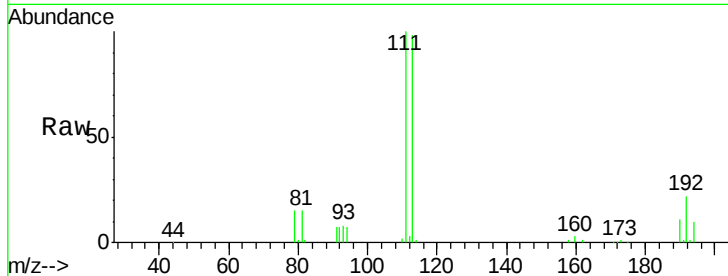




#35
 Dibromofluoromethane
 Concen: 51.678 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

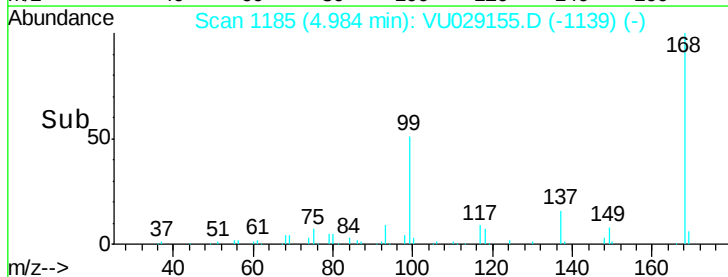
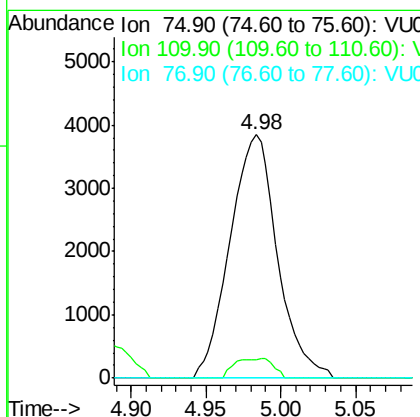
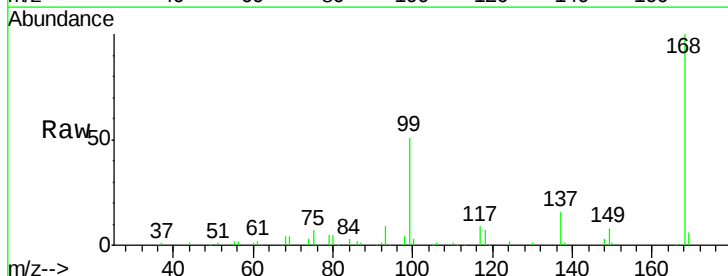
Instrument :
 MSVOA_U
 ClientSampleId :

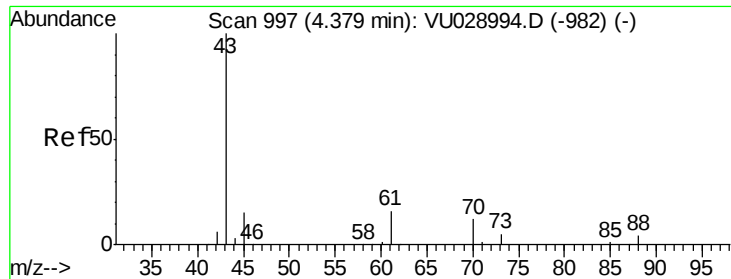
Tot Ion:113 Resp: 69133
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.4 122.2
 192 21.5 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 4.118 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

Tgt Ion: 75 Resp: 8495
 Ion Ratio Lower Upper
 75 100
 110 6.5 18.4 55.4#
 77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.203 ug/l

RT: 4.19 min Scan# 939

Delta R.T. -0.19 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

Instrument :

MSVOA_U

ClientSampleId :

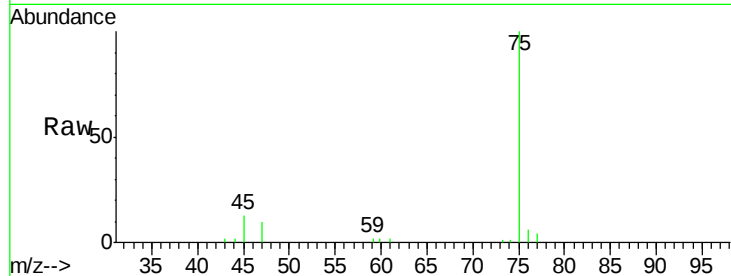
Tot Ion: 43 Resp: 460

Ion Ratio Lower Upper

43 100

61 67.8 12.6 18.8#

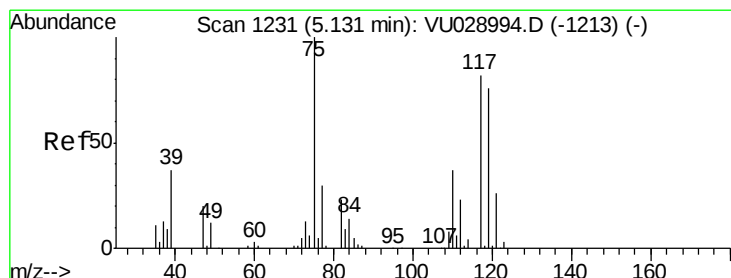
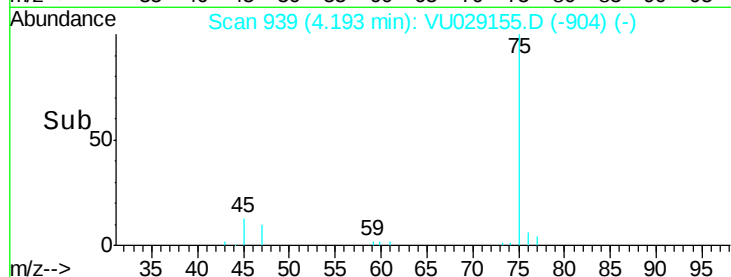
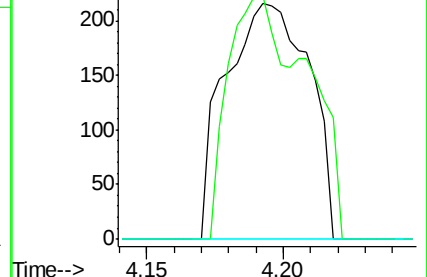
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-982) (-)

Ion 60.90 (60.60 to 61.60): VU028994.D (-982) (-)

Ion 70.00 (69.70 to 70.70): VU028994.D (-982) (-)



#38

Carbon Tetrachloride

Concen: 6.142 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.15 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

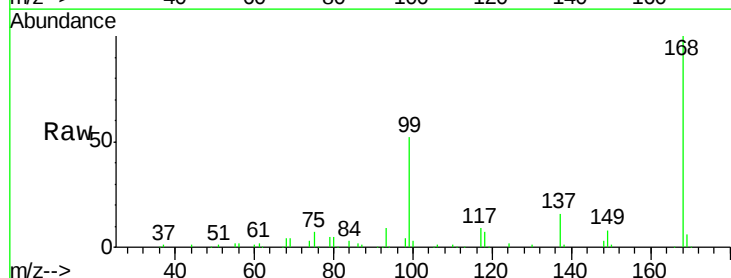
Tgt Ion: 117 Resp: 10567

Ion Ratio Lower Upper

117 100

119 4.4 74.6 111.8#

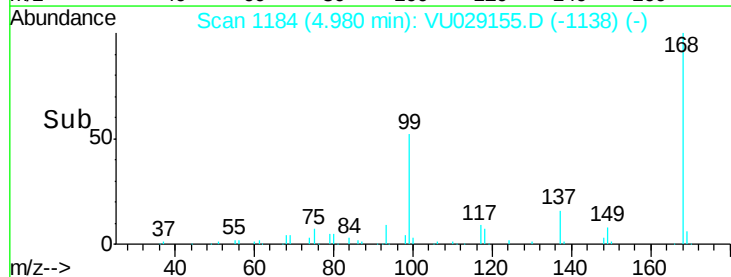
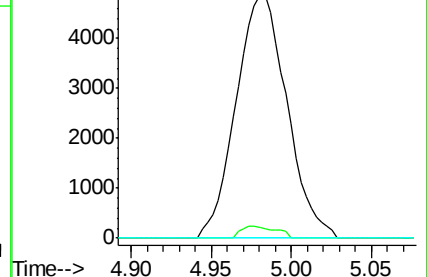
121 0.0 25.0 37.6#

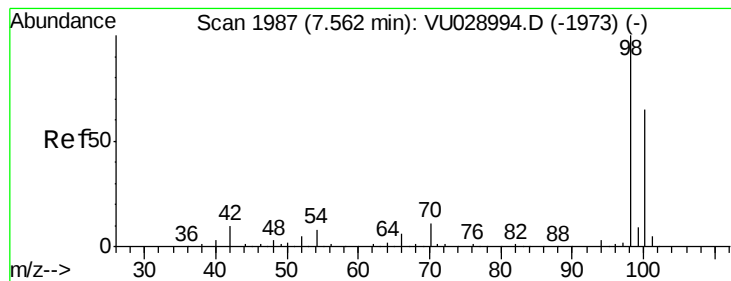


Abundance Ion 116.80 (116.50 to 117.50): VU028994.D (-1213) (-)

Ion 118.80 (118.50 to 119.50): VU028994.D (-1213) (-)

Ion 120.80 (120.50 to 121.50): VU028994.D (-1213) (-)





#50

Toluene-d8

Concen: 49.535 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

Instrument :

MSVOA_U

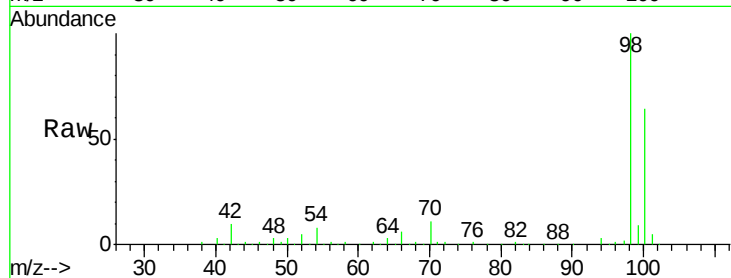
ClientSampleId :

Tot Ion: 98 Resp: 261612

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028994.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028994.D (-1973) (-)

7.56

150000

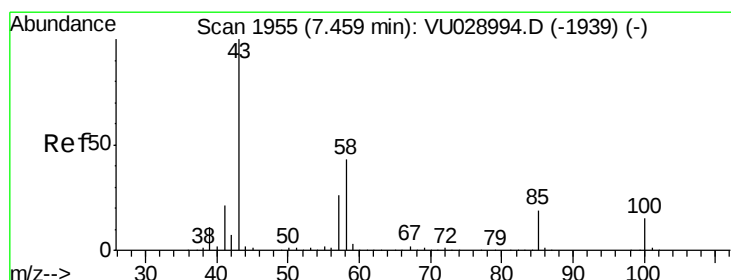
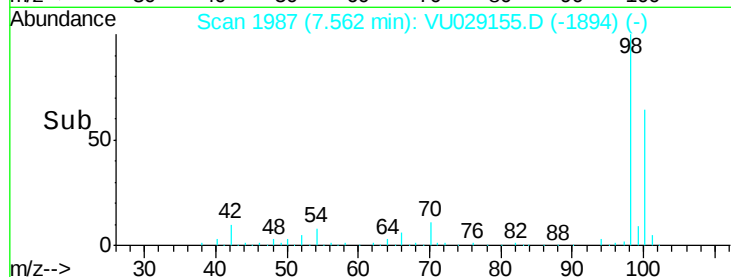
100000

50000

0

7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.239 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU029155.D

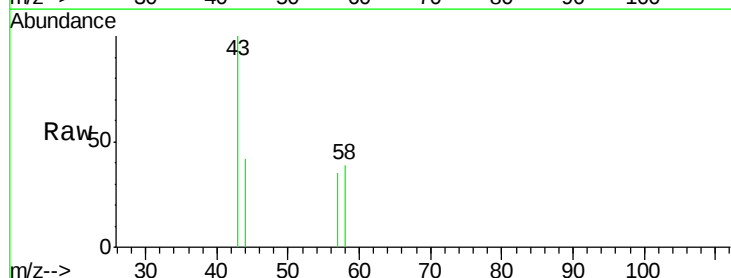
Acq: 14 Jan 2019 10:59

Tgt Ion: 43 Resp: 564

Ion Ratio Lower Upper

43 100

58 25.2 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028994.D (-1939) (-)

7.47

400

300

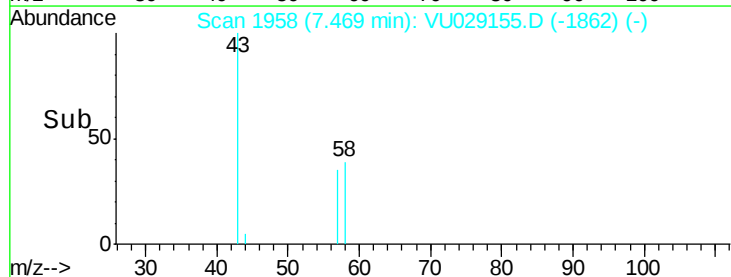
200

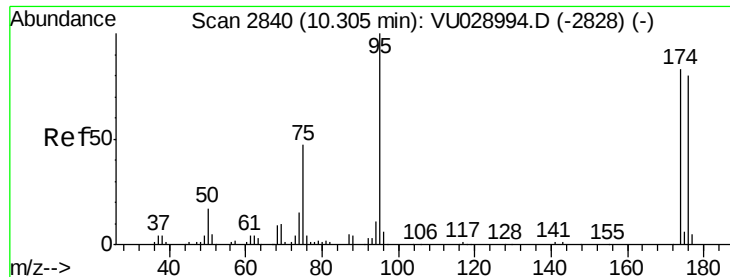
100

0

7.44 7.46 7.48 7.50

Time-->

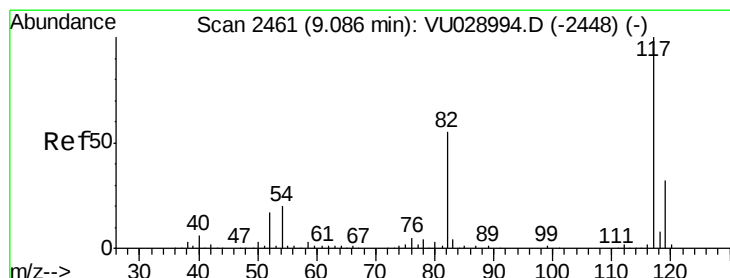
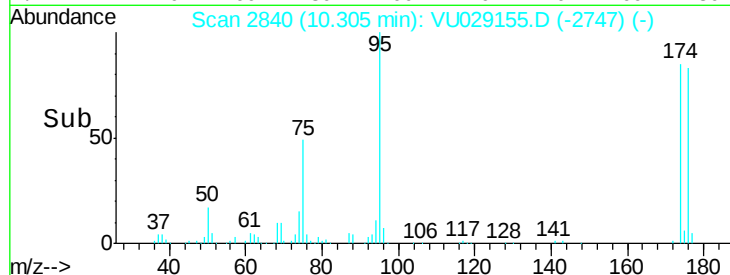
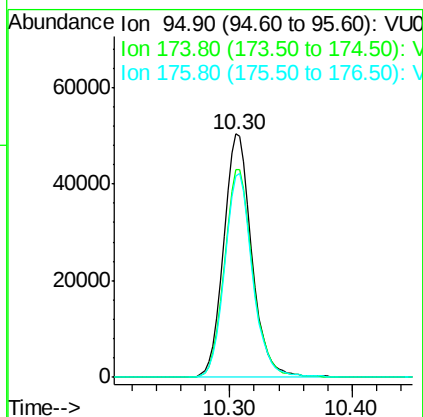
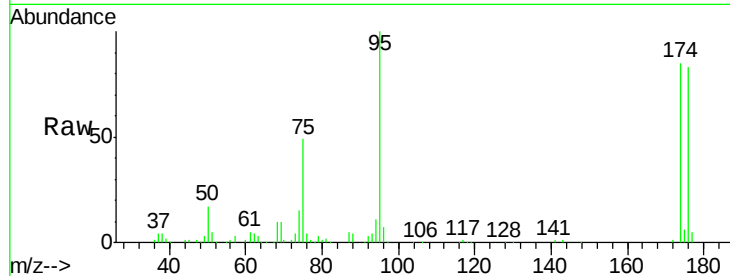




#62
4-Bromofluorobenzene
Concen: 43.007 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029155.D
Acq: 14 Jan 2019 10:59

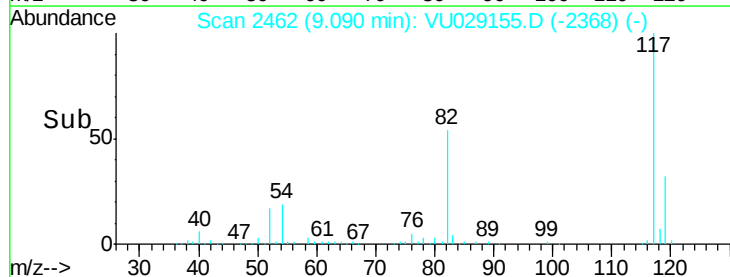
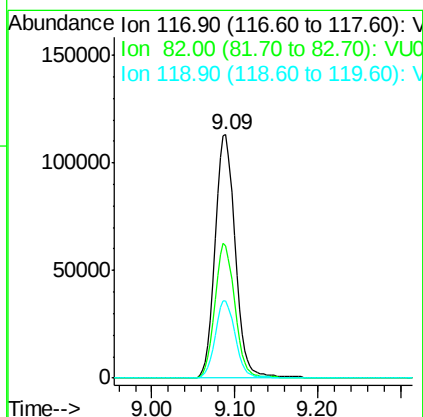
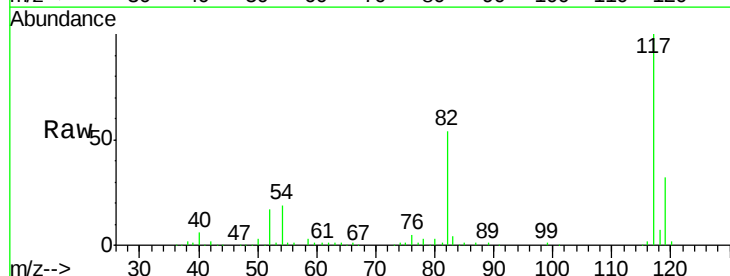
Instrument :
MSVOA_U
ClientSampleId :

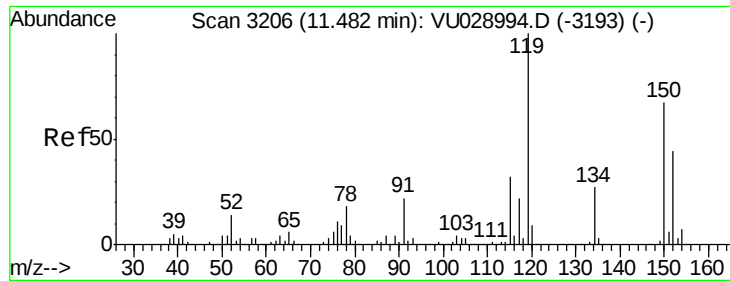
Tot Ion: 95 Resp: 81628
Ion Ratio Lower Upper
95 100
174 85.9 0.0 170.6
176 83.1 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029155.D
Acq: 14 Jan 2019 10:59

Tgt Ion: 117 Resp: 191192
Ion Ratio Lower Upper
117 100
82 54.5 43.9 65.9
119 32.0 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

Instrument :

MSVOA_U

ClientSampleId :

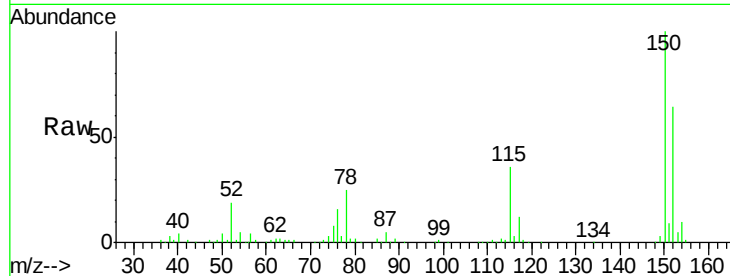
Tot Ion:152 Resp: 76161

Ion Ratio Lower Upper

152 100

115 56.7 40.1 120.3

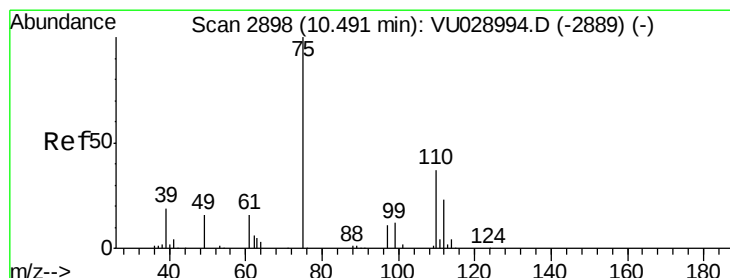
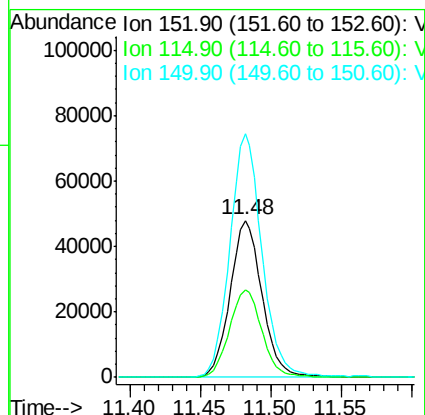
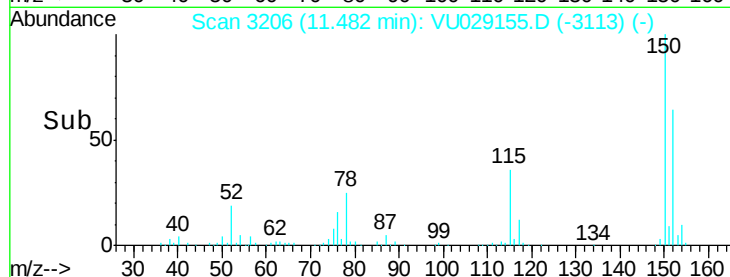
150 155.6 0.0 345.2



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: 21.293 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029155.D

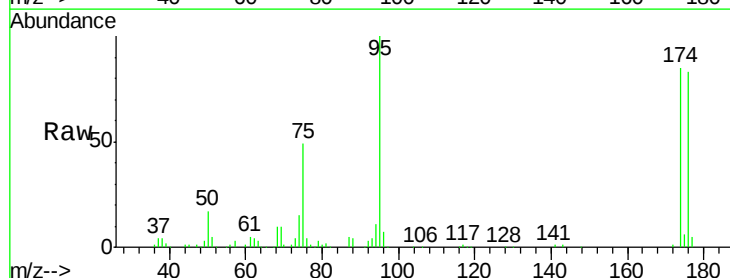
Acq: 14 Jan 2019 10:59

Tgt Ion: 75 Resp: 39734

Ion Ratio Lower Upper

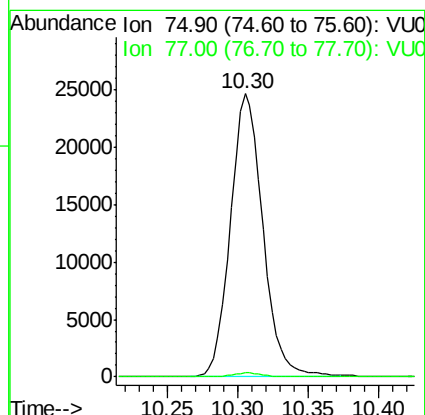
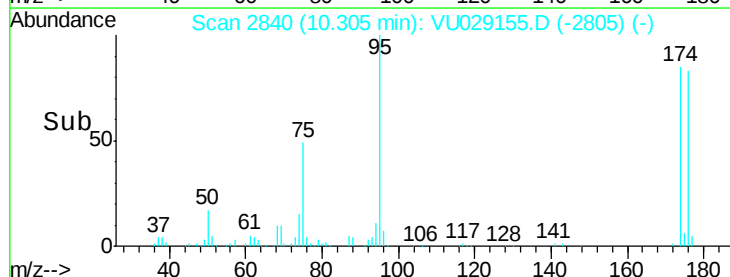
75 100

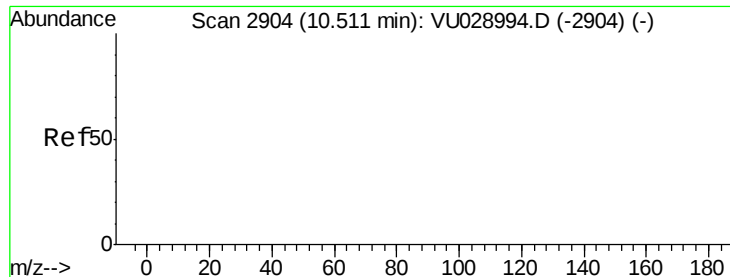
77 1.1 20.9 62.8#



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: 54.916 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

Instrument :

MSVOA_U

ClientSampleId :

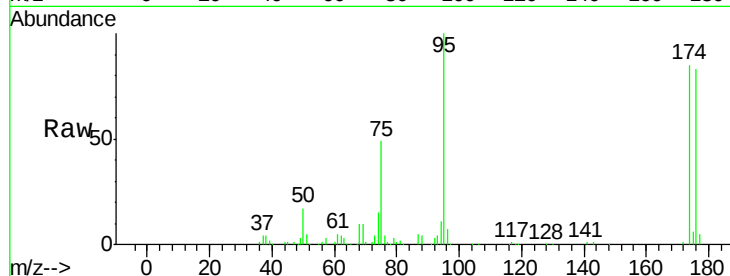
Tot Ion: 75 Resp: 39734

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

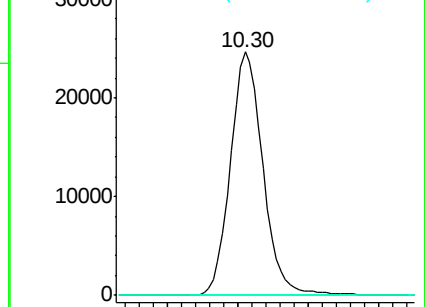
89 0.0 0.0 0.0



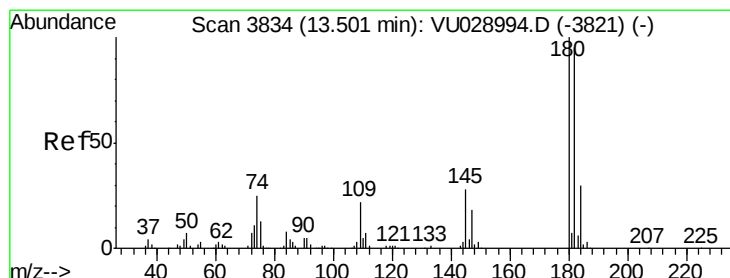
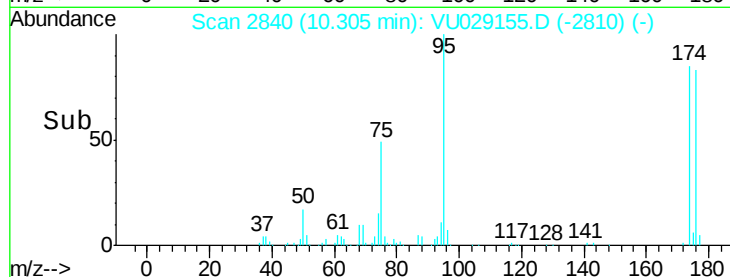
Abundance Ion 74.90 (74.60 to 75.60): VU028994.D (-2904) (-)

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

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



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.257 ug/l

RT: 13.51 min Scan# 3838

Delta R.T. 0.01 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

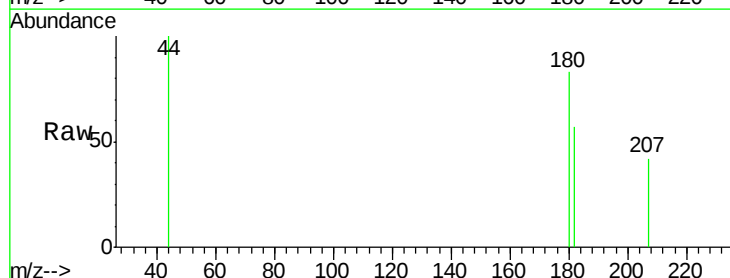
Tgt Ion: 180 Resp: 445

Ion Ratio Lower Upper

180 100

182 89.0 47.5 142.6

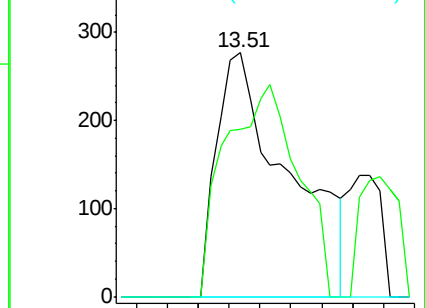
145 0.0 14.0 42.0#



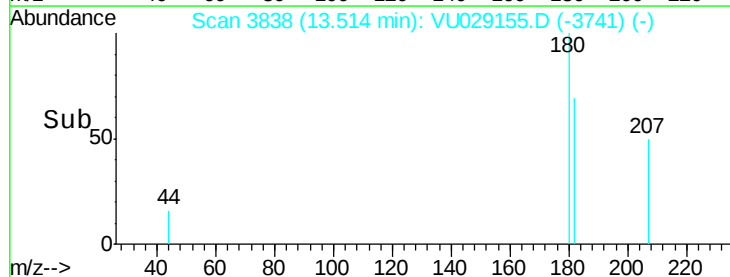
Abundance Ion 179.80 (179.50 to 180.50): VU028994.D (-3821) (-)

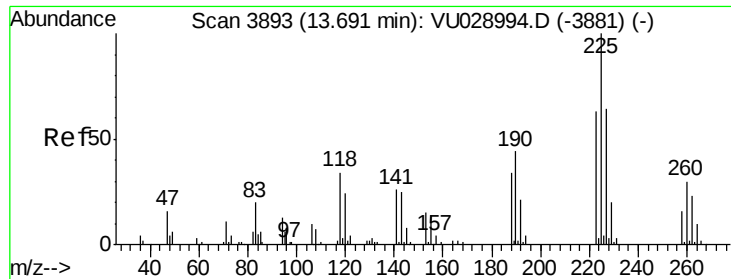
Ion 181.80 (181.50 to 182.50): VU028994.D (-3821) (-)

Ion 144.80 (144.50 to 145.50): VU028994.D (-3821) (-)



Time-->





#94

Hexachlorobutadiene

Concen: 0.215 ug/l

RT: 13.69 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

Instrument :

MSVOA_U

ClientSampled :

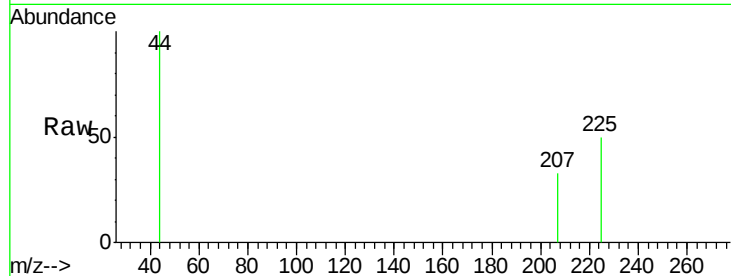
Tot Ion:225 Resp: 170

Ion Ratio Lower Upper

225 100

223 0.0 31.4 94.0#

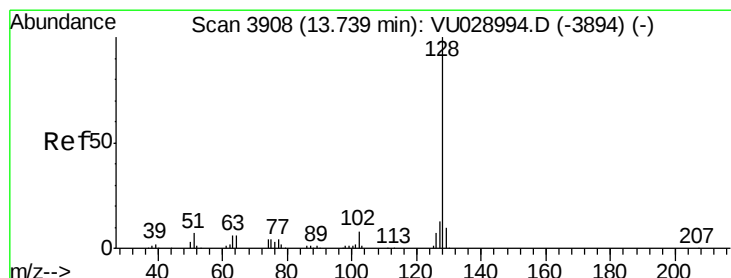
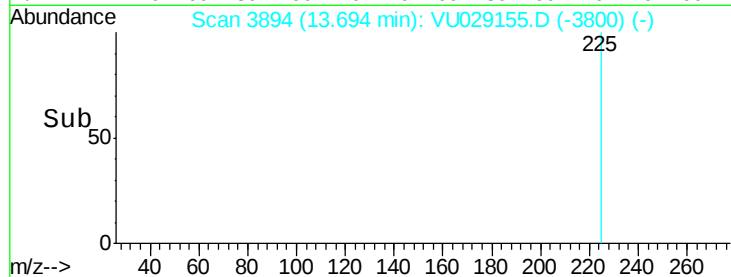
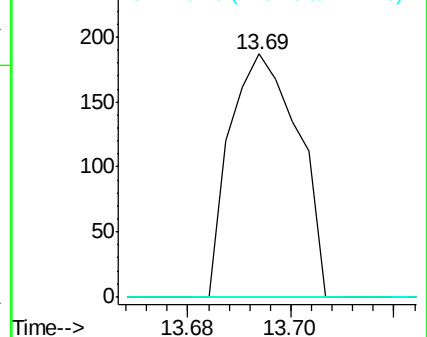
227 0.0 31.9 95.5#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.303 ug/l

RT: 13.76 min Scan# 3916

Delta R.T. 0.03 min

Lab File: VU029155.D

Acq: 14 Jan 2019 10:59

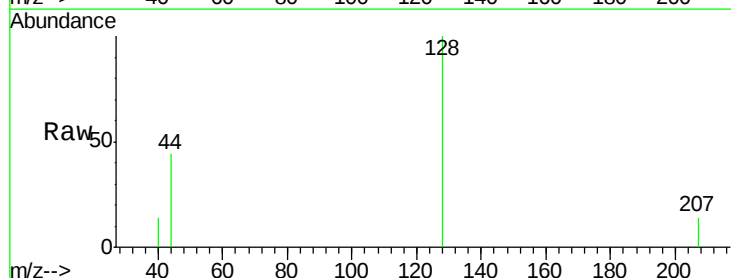
Tgt Ion:128 Resp: 1785

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

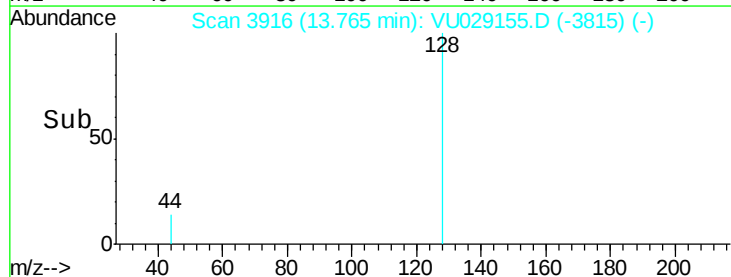
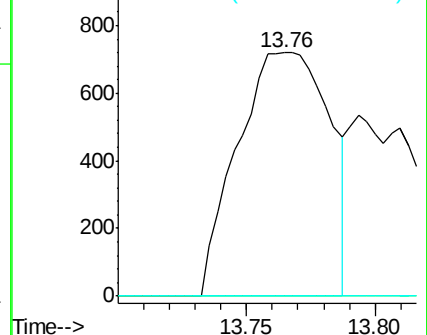
129 0.0 8.5 12.7#

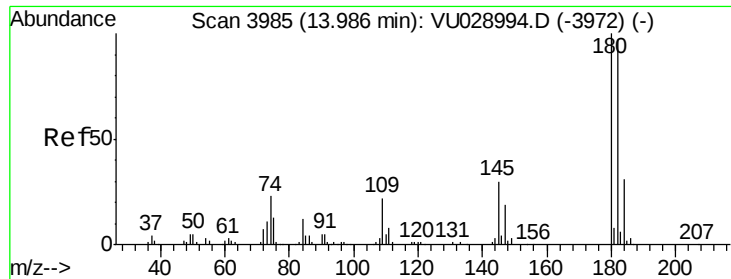


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.959 ug/l
 RT: 13.99 min Scan# 3987
 Delta R.T. 0.01 min
 Lab File: VU029155.D
 Acq: 14 Jan 2019 10:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 333
 Ion Ratio Lower Upper
 180 100
 182 137.8 48.1 144.3
 145 6.6 14.8 44.4#

