

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
 Data File : VU027194.D
 Acq On : 26 Sep 2018 22:27
 Operator : MD/SY
 Sample : J5048-17
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FB-1-SEP18

Quant Time: Sep 27 02:46:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	90916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	154931	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	147531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69062	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	95019	51.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.86%	
35) Dibromofluoromethane	4.88	113	66881	49.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.60%	
50) Toluene-d8	7.57	98	247323	48.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.64%	
62) 4-Bromofluorobenzene	10.31	95	80324	45.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.48%	

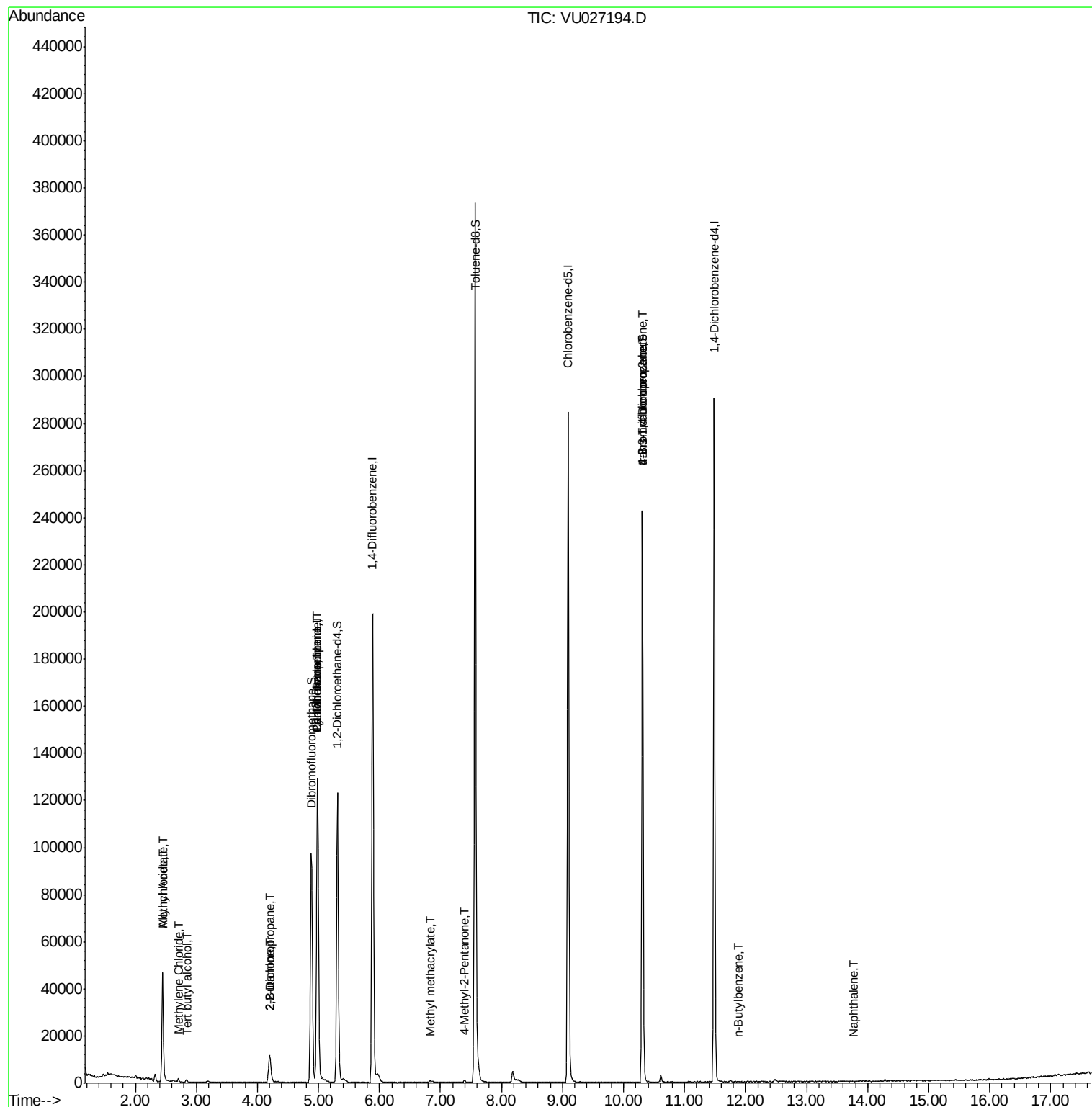
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	449	1.071	ug/l #	72
14) Allyl chloride	2.45	41	4625	1.816	ug/l #	70
16) Acetone	2.32	43	3430	Below Cal		94
18) Methyl Acetate	2.45	43	11637	4.468	ug/l #	55
20) Methylene Chloride	2.70	84	493	0.301	ug/l #	92
25) 2-Butanone	4.20	43	425	0.276	ug/l #	53
26) 2,2-Dichloropropane	4.21	77	670	0.286	ug/l #	55
31) Cyclohexane	4.99	56	2334	0.284	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	9006	4.355	ug/l #	49
38) Carbon Tetrachloride	4.99	117	9433	4.794	ug/l #	18
48) Methyl methacrylate	6.82	41	174	1.089	ug/l #	31
51) 4-Methyl-2-Pentanone	7.40	43	594	0.216	ug/l #	38
76) 1,2,3-Trichloropropane	10.31	75	44239	21.085	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	44239	67.477	ug/l #	100
89) n-Butylbenzene	11.89	91	19	2.396	ug/l #	33
95) Naphthalene	13.76	128	21	1.693	ug/l #	69

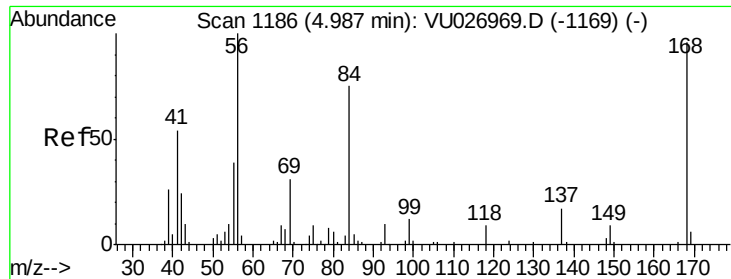
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

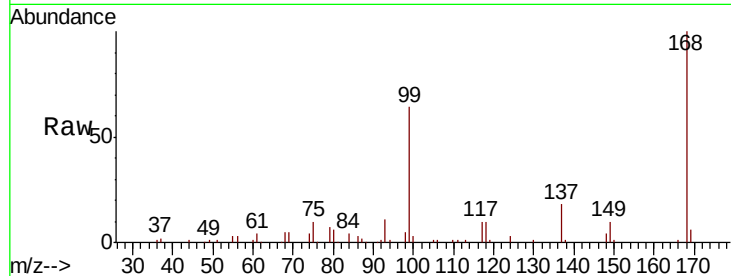
FB-1-SEP18

Tgt Ion:168 Resp: 90916

Ion Ratio Lower Upper

168 100

99 64.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

40000

30000

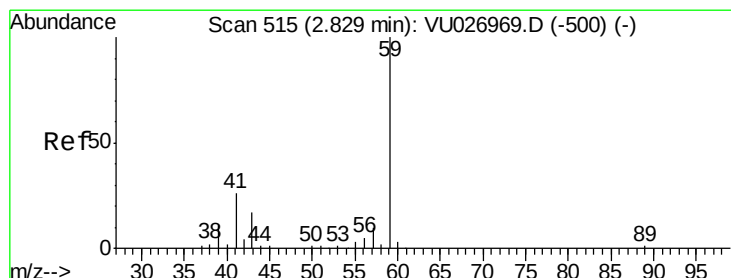
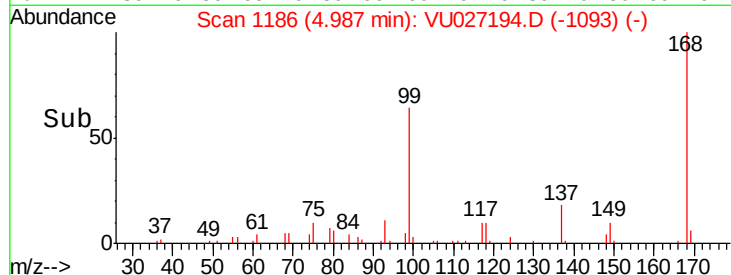
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#11

Tert butyl alcohol

Concen: 1.071 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU027194.D

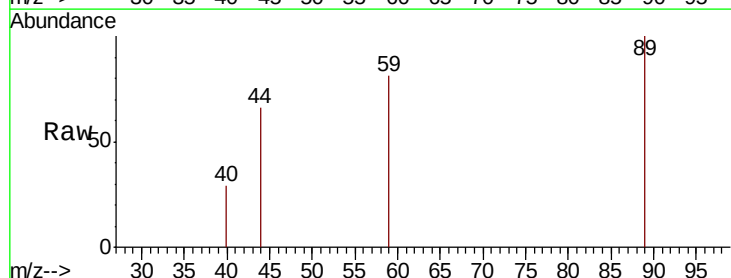
Acq: 26 Sep 2018 22:27

Tgt Ion: 59 Resp: 449

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU026969.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU026969.D (-500) (-)

2.83

400

300

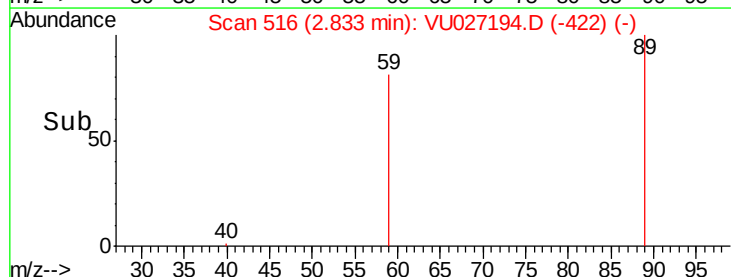
200

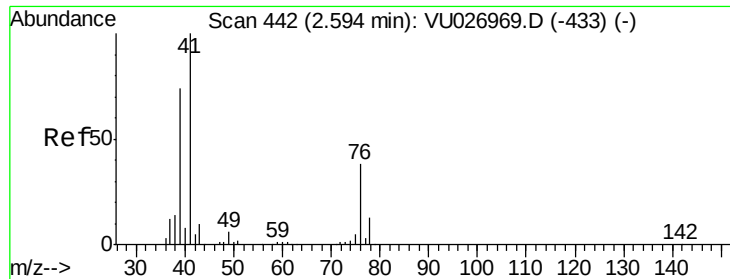
100

0

2.80 2.82 2.84

Time-->

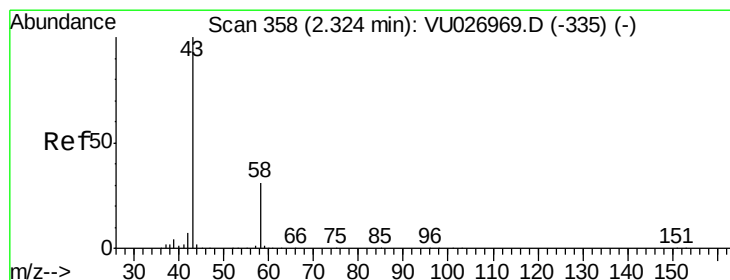
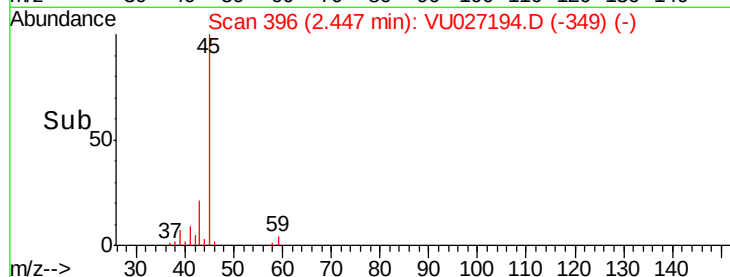
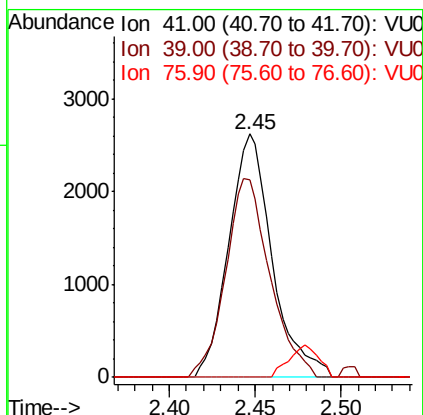
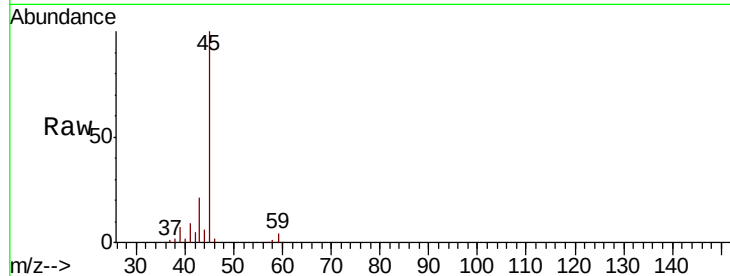




#14
 Allyl chloride
 Concen: 1.816 ug/l
 RT: 2.45 min Scan# 396
 Delta R.T. -0.15 min
 Lab File: VU027194.D
 Acq: 26 Sep 2018 22:27

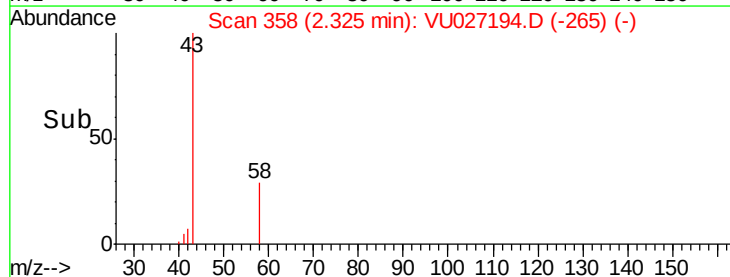
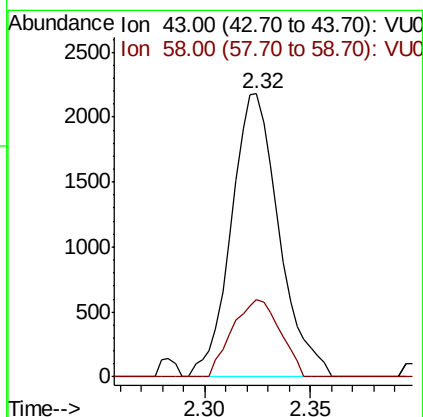
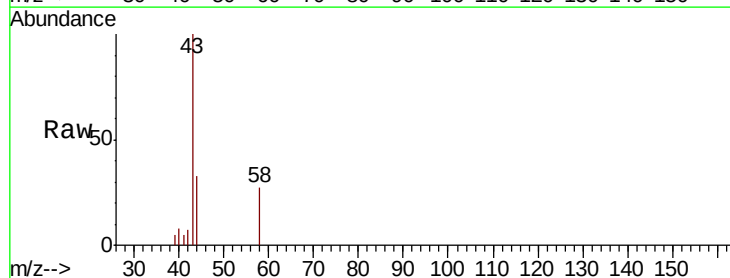
Instrument :
 MSVOA_U
 ClientSampleId :
 FB-1-SEP18

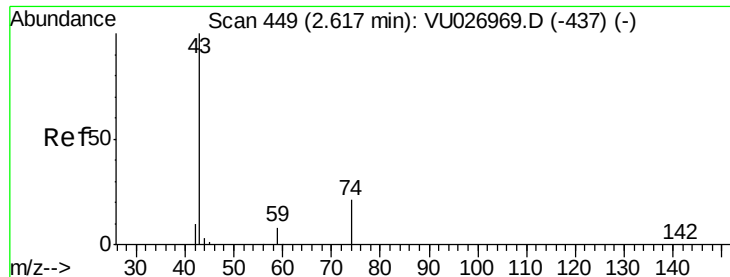
Tgt Ion: 41 Resp: 4625
 Ion Ratio Lower Upper
 41 100
 39 83.1 55.7 83.5
 76 0.0 26.5 39.7#



#16
 Acetone
 Concen: Below Cal
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU027194.D
 Acq: 26 Sep 2018 22:27

Tgt Ion: 43 Resp: 3430
 Ion Ratio Lower Upper
 43 100
 58 27.2 24.6 36.8

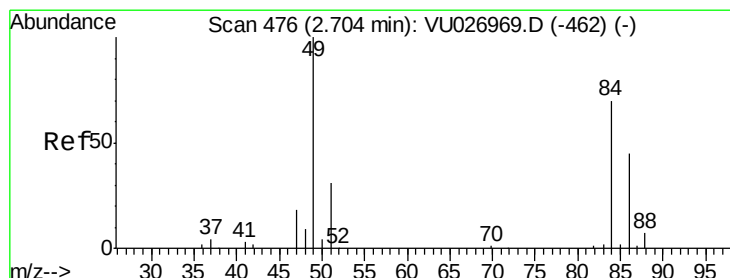
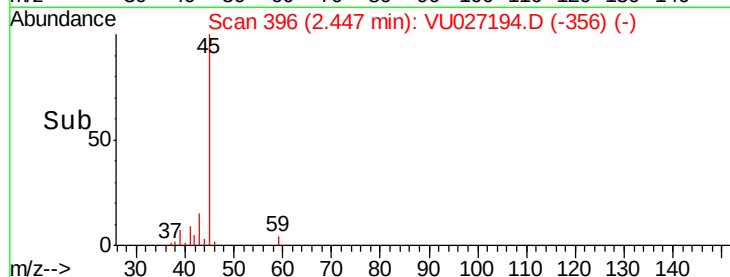
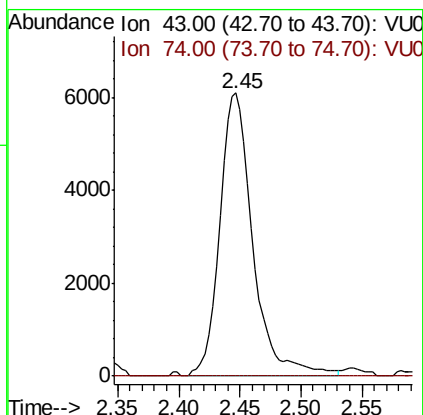
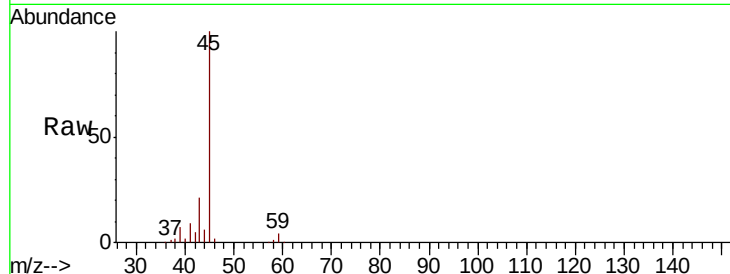




#18
Methyl Acetate
Concen: 4.468 ug/l
RT: 2.45 min Scan# 396
Delta R.T. -0.17 min
Lab File: VU027194.D
Acq: 26 Sep 2018 22:27

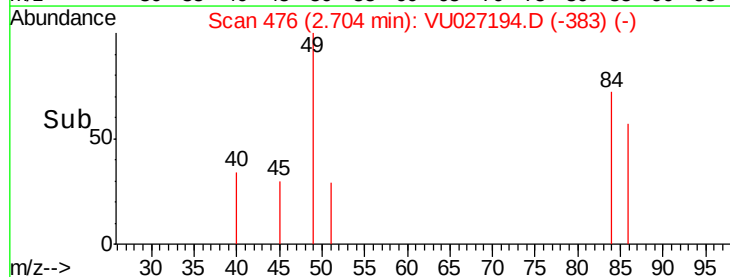
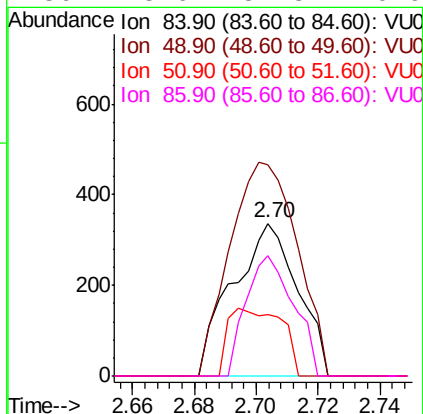
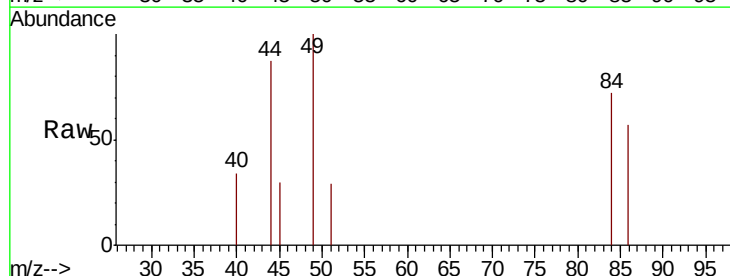
Instrument :
MSVOA_U
ClientSampleId :
FB-1-SEP18

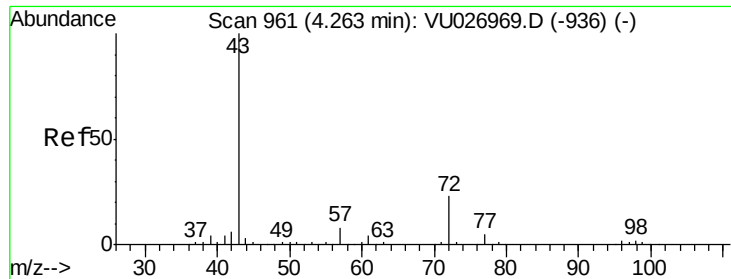
Tgt Ion: 43 Resp: 11637
Ion Ratio Lower Upper
43 100
74 0.0 16.6 25.0#



#20
Methylene Chloride
Concen: 0.301 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027194.D
Acq: 26 Sep 2018 22:27

Tgt Ion: 84 Resp: 493
Ion Ratio Lower Upper
84 100
49 138.0 114.9 172.3
51 40.7 35.8 53.8
86 78.6 51.3 76.9#





#25

2-Butanone

Concen: 0.276 ug/l

RT: 4.20 min Scan# 941

Delta R.T. -0.06 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

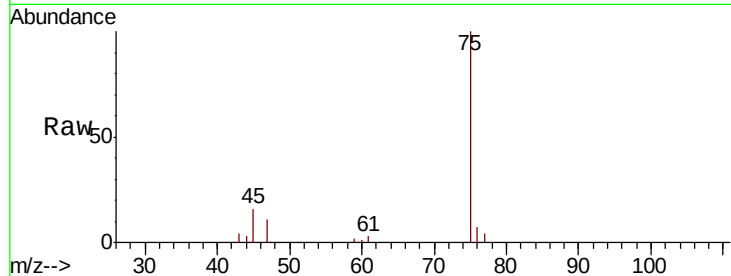
FB-1-SEP18

Tgt Ion: 43 Resp: 425

Ion Ratio Lower Upper

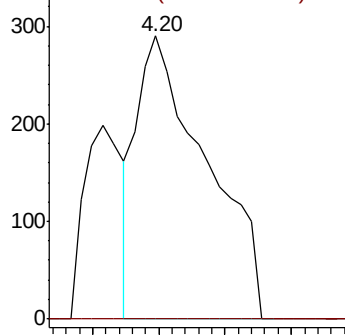
43 100

72 0.0 18.4 27.6#

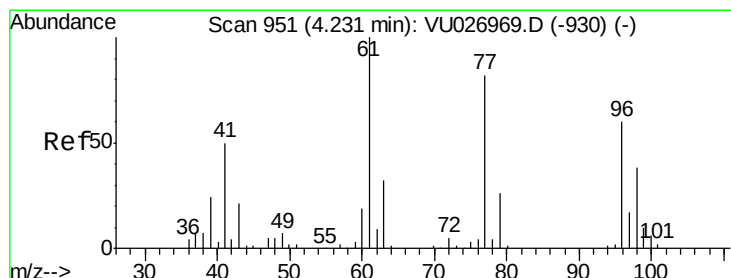
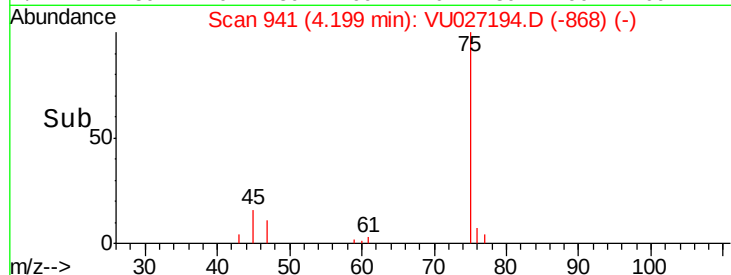


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



Time-->



#26

2,2-Dichloropropane

Concen: 0.286 ug/l

RT: 4.21 min Scan# 943

Delta R.T. -0.03 min

Lab File: VU027194.D

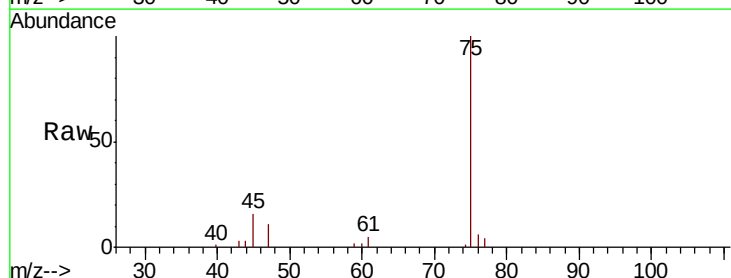
Acq: 26 Sep 2018 22:27

Tgt Ion: 77 Resp: 670

Ion Ratio Lower Upper

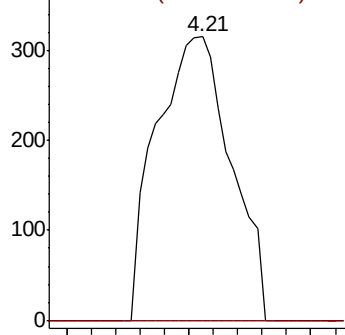
77 100

97 0.0 10.5 31.5#

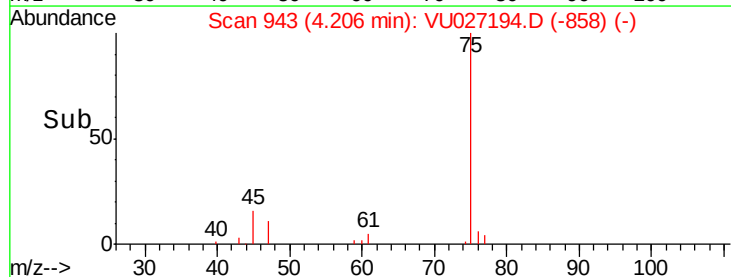


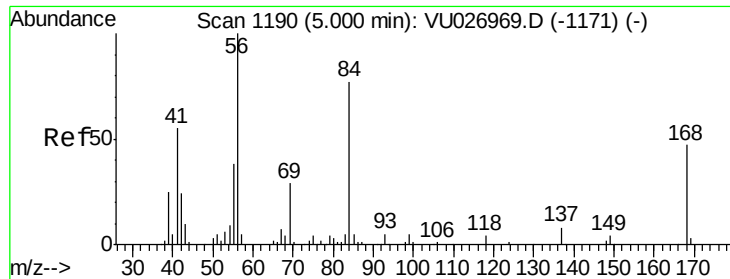
Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0



Time-->

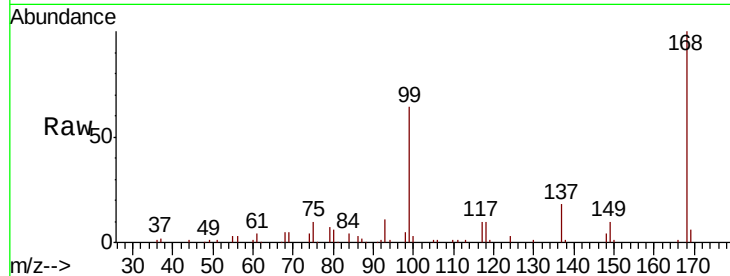




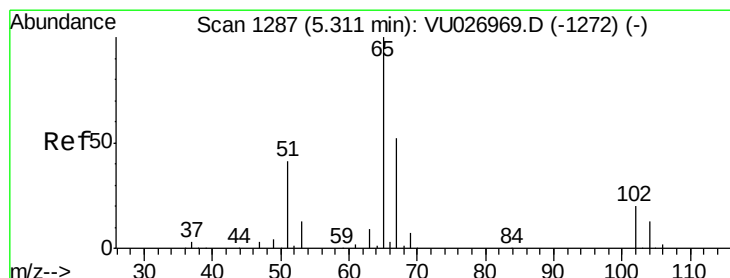
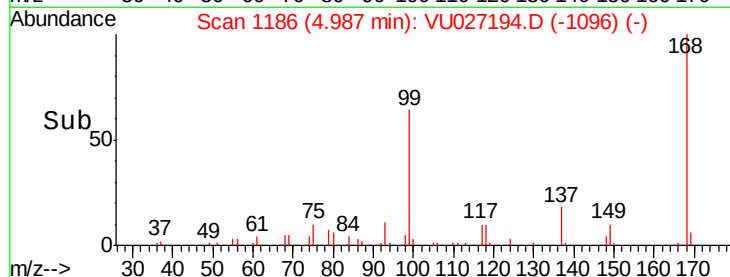
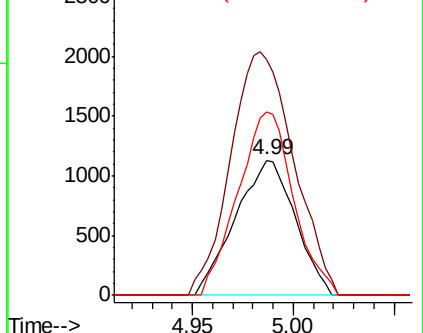
#31
Cyclohexane
Concen: 0.284 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU027194.D
Acq: 26 Sep 2018 22:27

Instrument :
MSVOA_U
ClientSampled :
FB-1-SEP18

Tgt Ion: 56 Resp: 2334
Ion Ratio Lower Upper
56 100
69 174.2 23.0 34.4#
84 135.2 61.4 92.2#

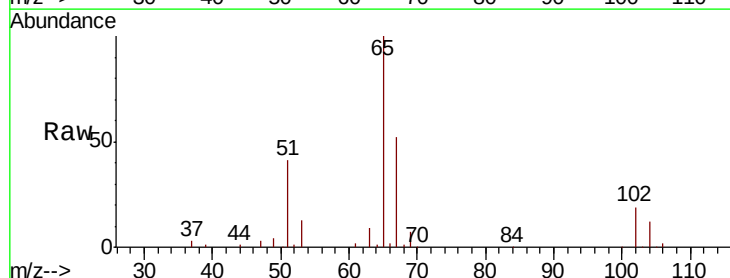


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

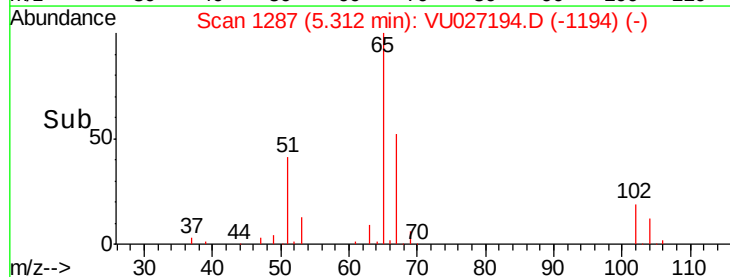
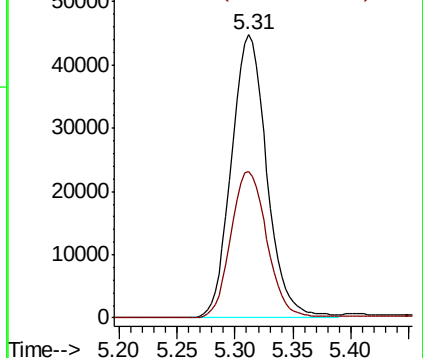


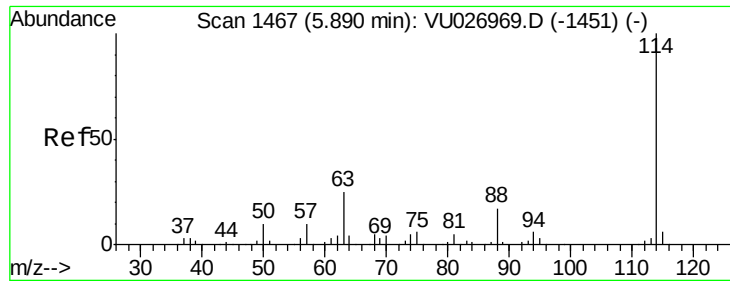
#33
1,2-Dichloroethane-d4
Concen: 51.928 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VU027194.D
Acq: 26 Sep 2018 22:27

Tgt Ion: 65 Resp: 95019
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

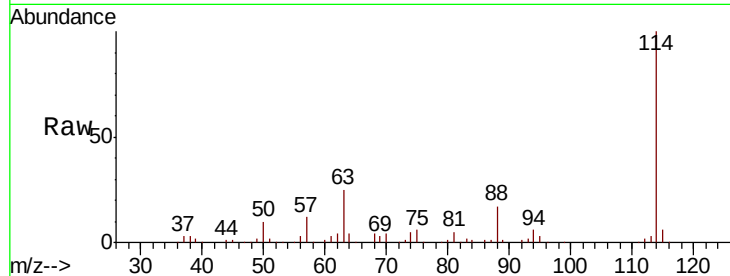




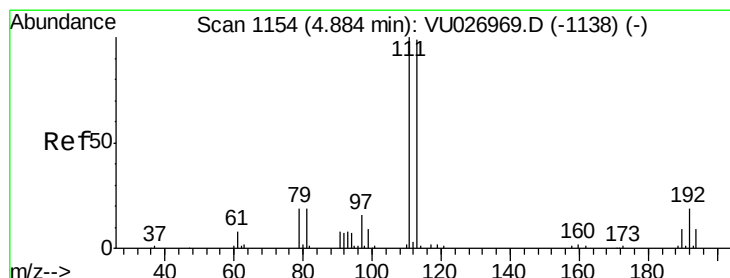
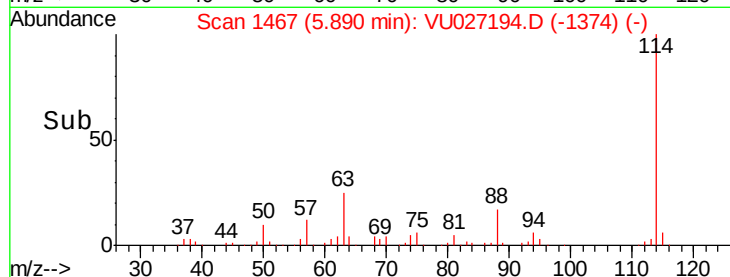
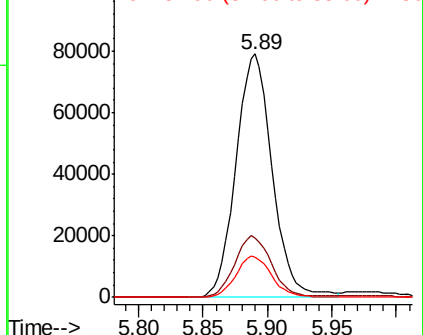
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027194.D
 Acq: 26 Sep 2018 22:27

Instrument :
 MSVOA_U
 ClientSampleId :
 FB-1-SEP18

Tgt Ion:114 Resp: 154931
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 49.2
 88 16.7 0.0 33.8

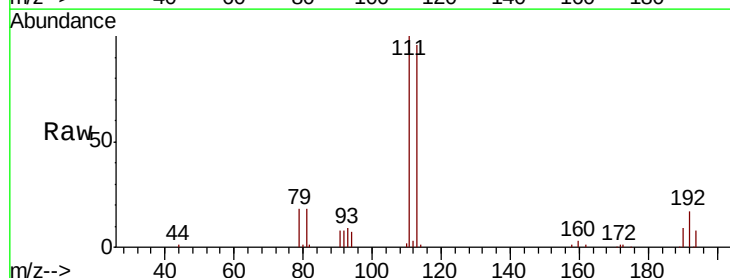


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

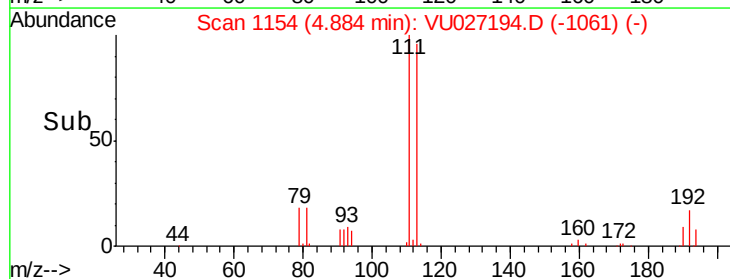
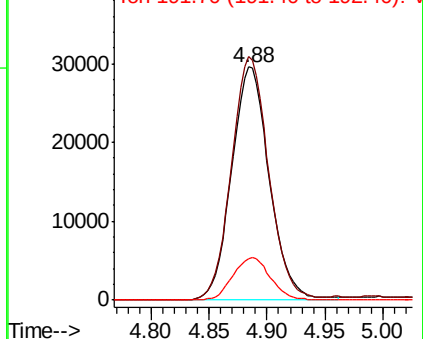


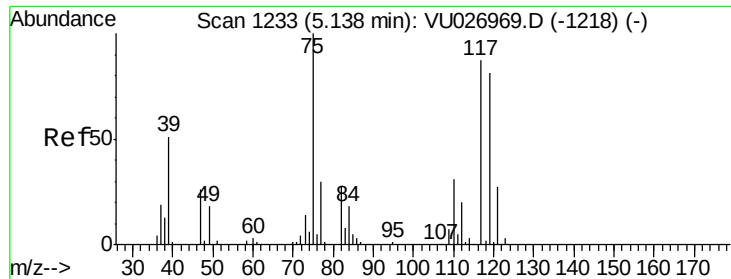
#35
 Dibromofluoromethane
 Concen: 49.802 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027194.D
 Acq: 26 Sep 2018 22:27

Tgt Ion:113 Resp: 66881
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.2 123.4
 192 18.0 15.2 22.8



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: 4.355 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

FB-1-SEP18

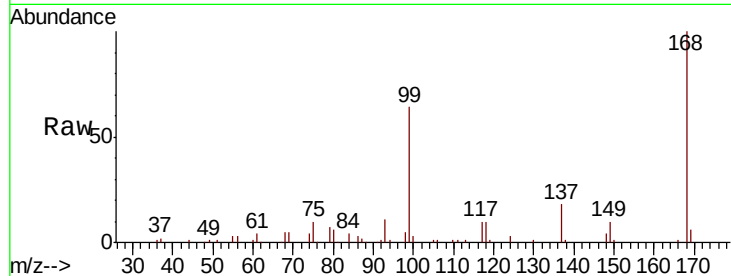
Tgt Ion: 75 Resp: 9006

Ion Ratio Lower Upper

75 100

110 5.8 16.1 48.2#

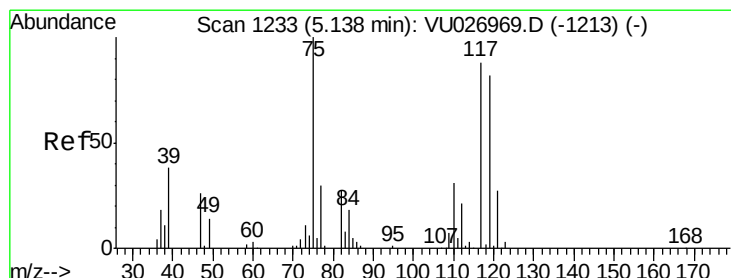
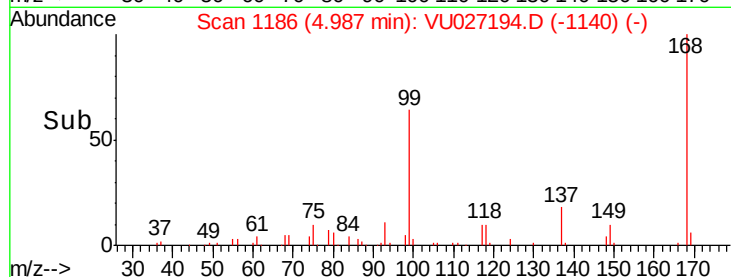
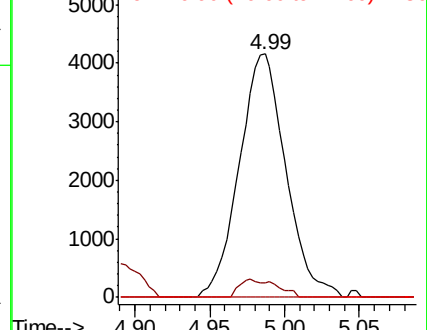
77 0.0 24.6 36.8#



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: 4.794 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

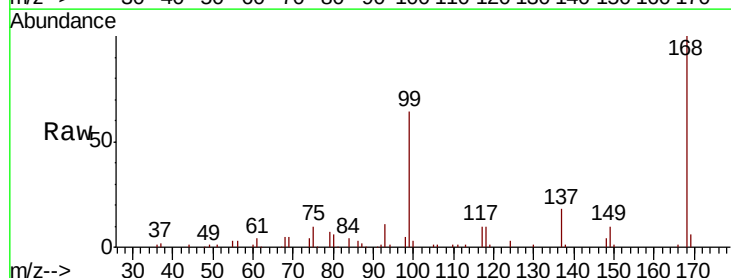
Tgt Ion: 117 Resp: 9433

Ion Ratio Lower Upper

117 100

119 6.4 74.4 111.6#

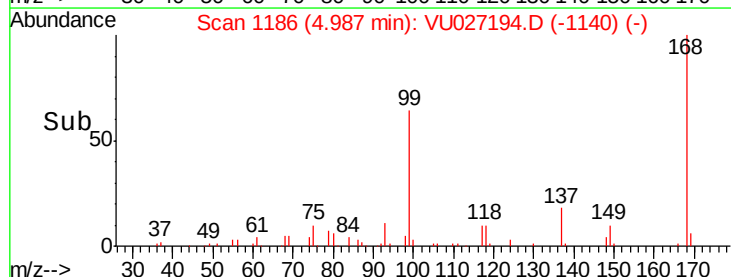
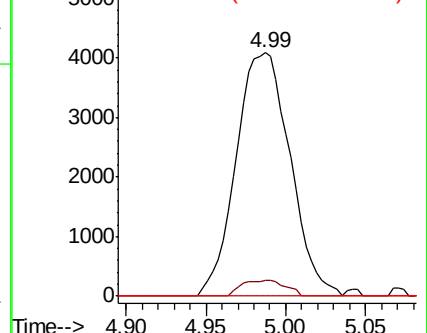
121 0.0 24.2 36.4#

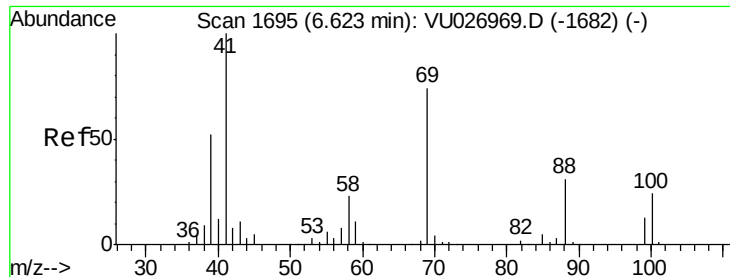


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#48

Methyl methacrylate

Concen: 1.089 ug/l

RT: 6.82 min Scan# 1757

Delta R.T. 0.20 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

FB-1-SEP18

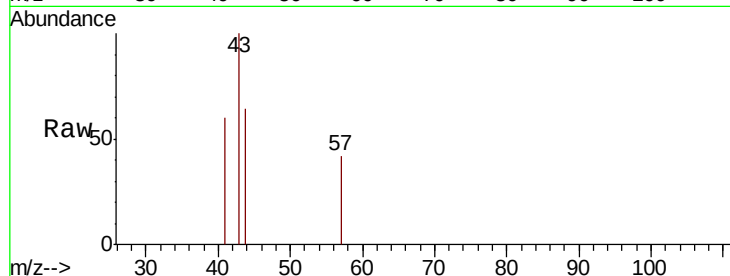
Tgt Ion: 41 Resp: 174

Ion Ratio Lower Upper

41 100

69 0.0 60.6 90.8#

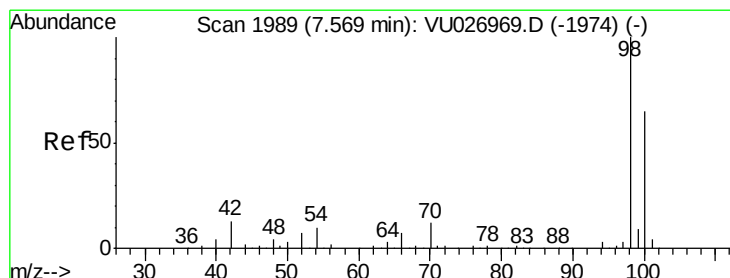
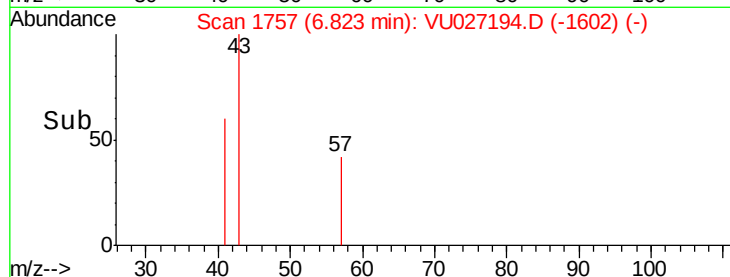
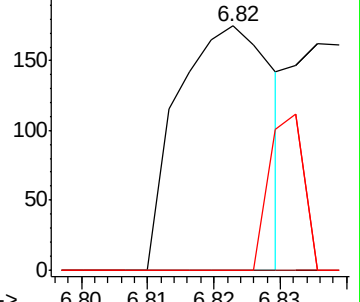
39 23.6 42.8 64.2#



Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-1682) (-)

Ion 69.00 (68.70 to 69.70): VU026969.D (-1682) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-1682) (-)



#50

Toluene-d8

Concen: 48.324 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU027194.D

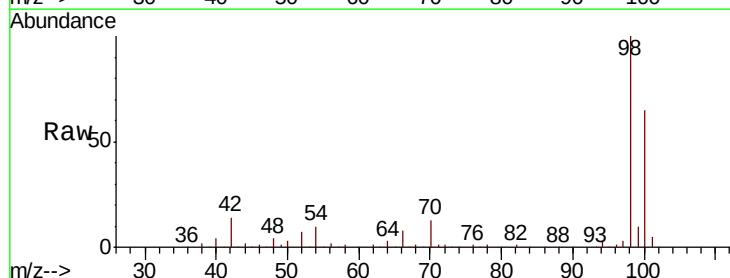
Acq: 26 Sep 2018 22:27

Tgt Ion: 98 Resp: 247323

Ion Ratio Lower Upper

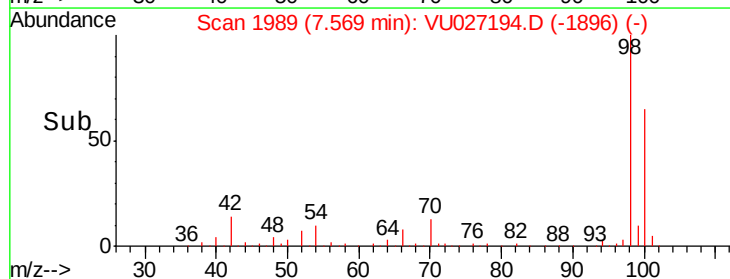
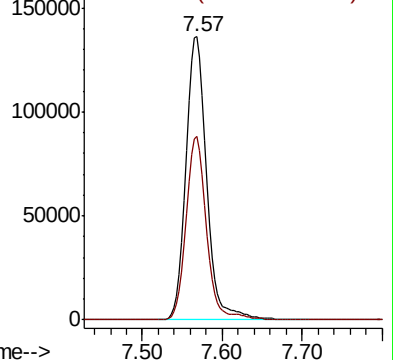
98 100

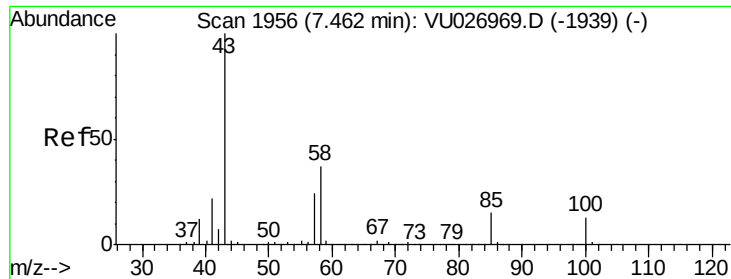
100 63.6 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

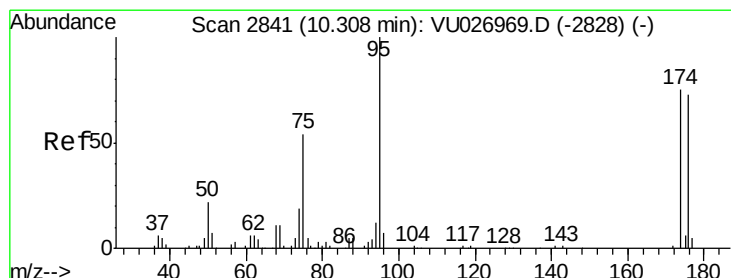
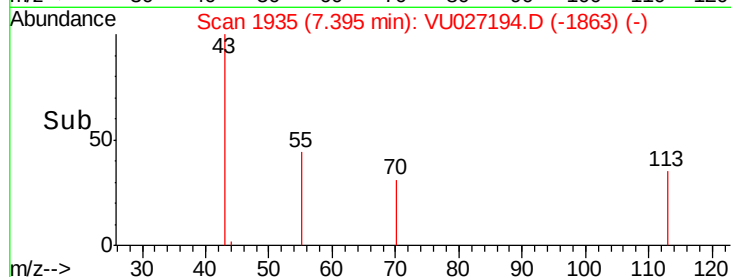
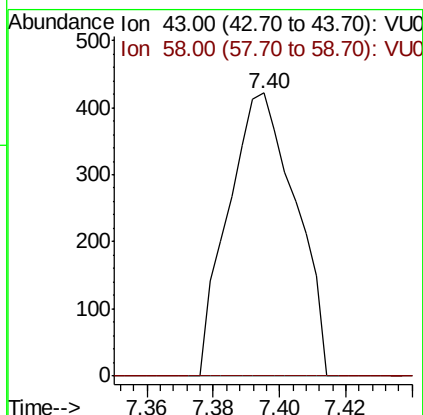
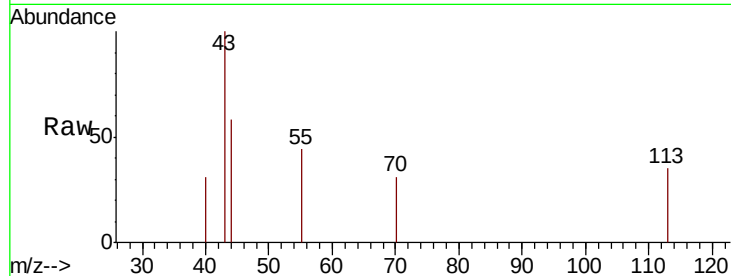




#51
 4-Methyl-2-Pentanone
 Concen: 0.216 ug/l
 RT: 7.40 min Scan# 1935
 Delta R.T. -0.07 min
 Lab File: VU027194.D
 Acq: 26 Sep 2018 22:27

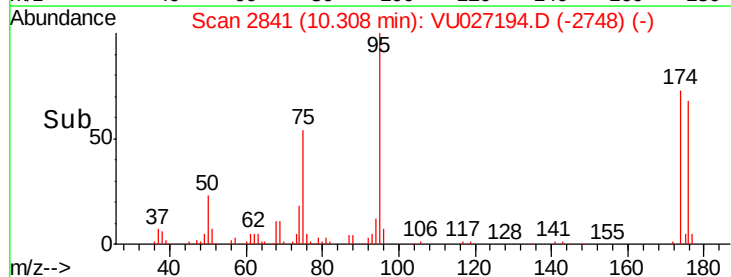
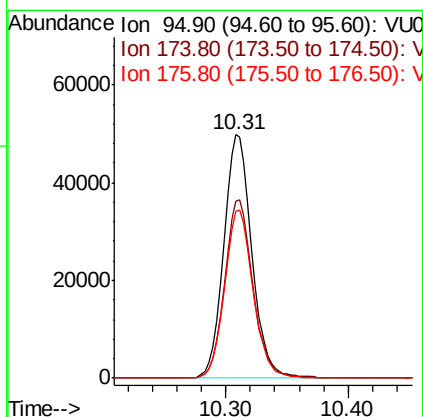
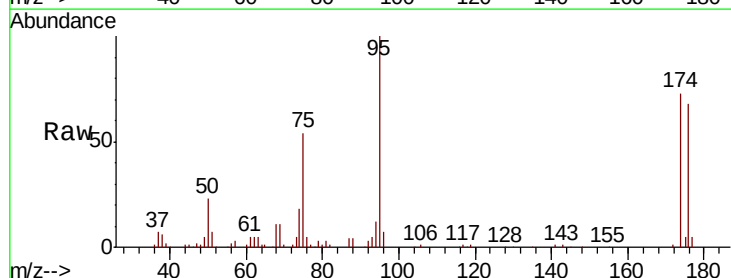
Instrument :
 MSVOA_U
 ClientSampleId :
 FB-1-SEP18

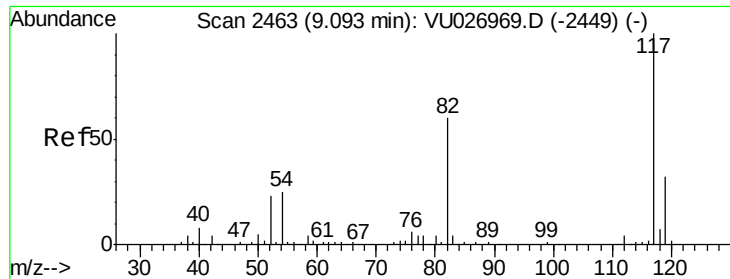
Tgt Ion: 43 Resp: 594
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 44.6#



#62
 4-Bromofluorobenzene
 Concen: 45.739 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027194.D
 Acq: 26 Sep 2018 22:27

Tgt Ion: 95 Resp: 80324
 Ion Ratio Lower Upper
 95 100
 174 73.8 0.0 150.2
 176 69.9 0.0 145.2

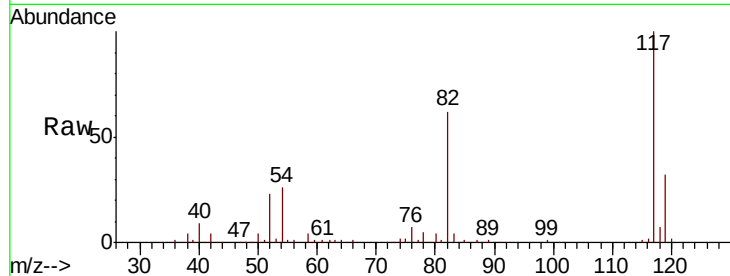




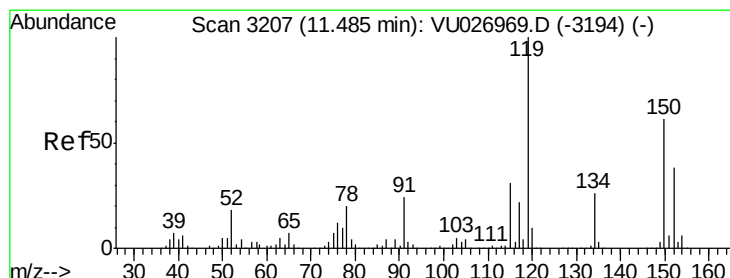
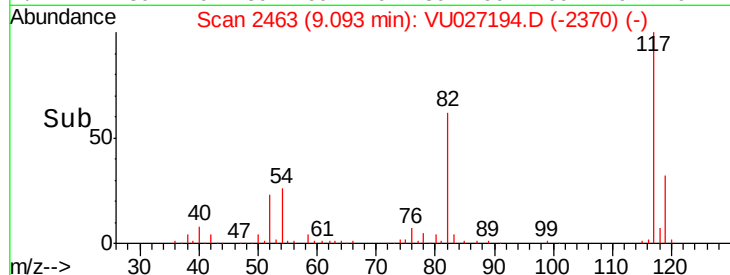
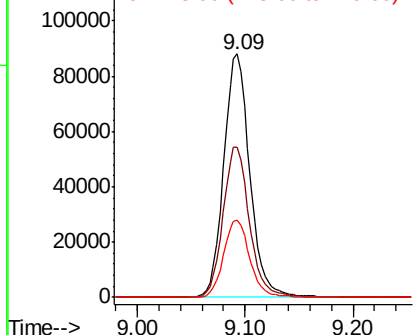
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU027194.D
Acq: 26 Sep 2018 22:27

Instrument :
MSVOA_U
ClientSampleId :
FB-1-SEP18

Tgt Ion:117 Resp: 147531
Ion Ratio Lower Upper
117 100
82 61.9 48.0 72.0
119 31.7 25.8 38.8

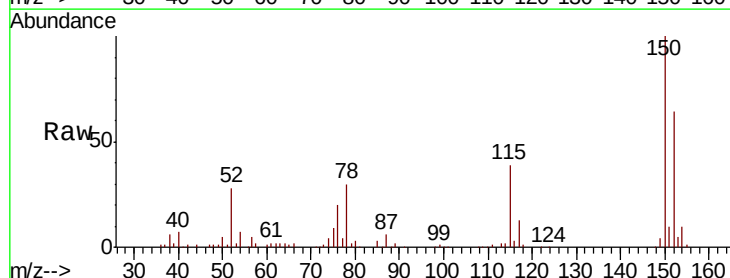


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)
Ion 118.90 (118.60 to 119.60): V

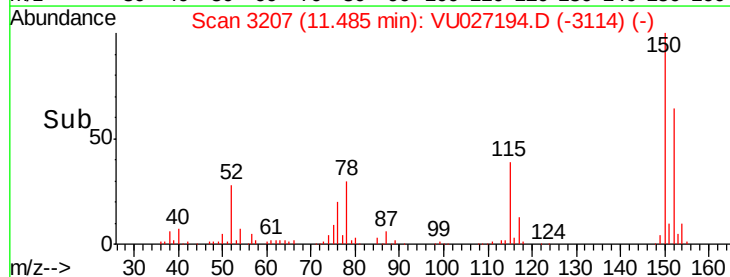
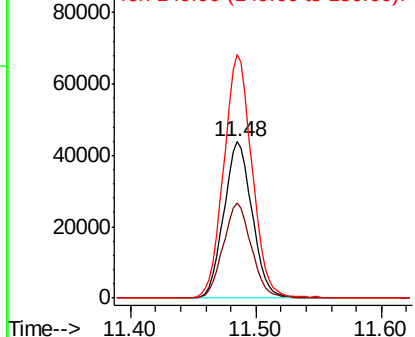


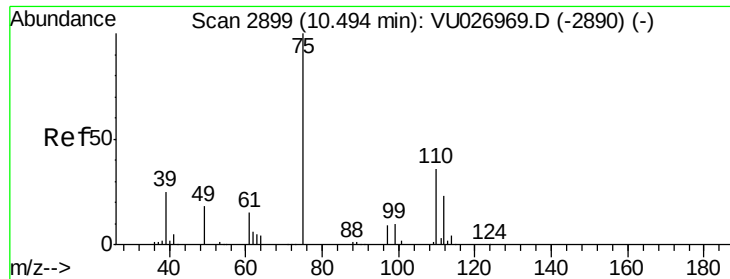
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027194.D
Acq: 26 Sep 2018 22:27

Tgt Ion:152 Resp: 69062
Ion Ratio Lower Upper
152 100
115 60.2 44.9 134.5
150 155.9 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): VU026969.D (-3194) (-)
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.085 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

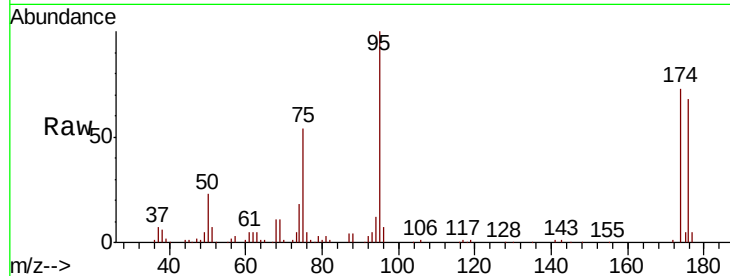
FB-1-SEP18

Tgt Ion: 75 Resp: 44239

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

10.31

30000

25000

20000

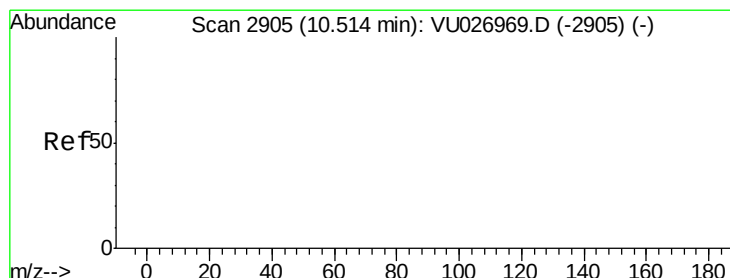
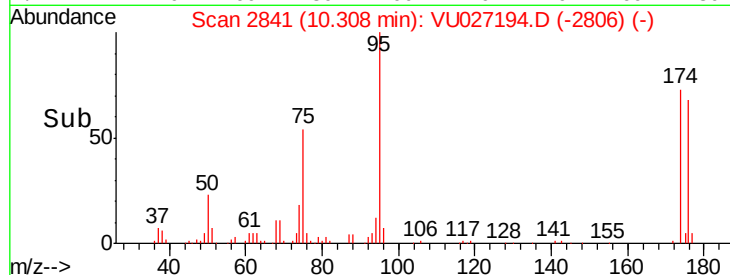
15000

10000

5000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.477 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

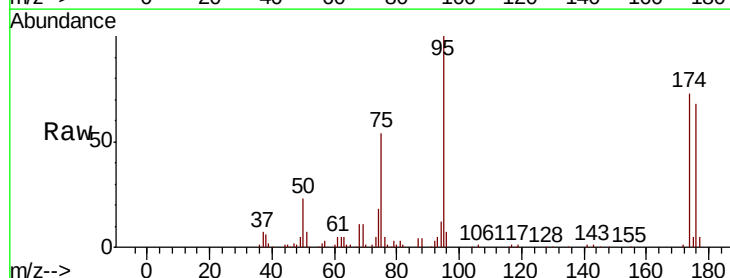
Tgt Ion: 75 Resp: 44239

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

10.31

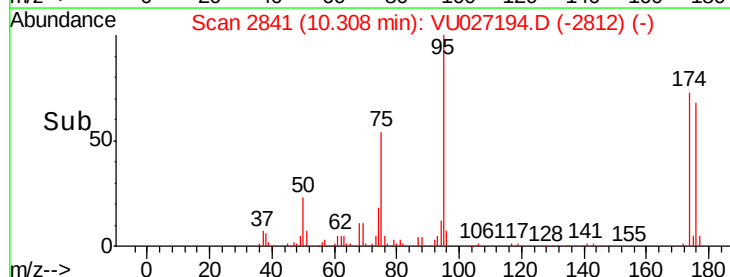
30000

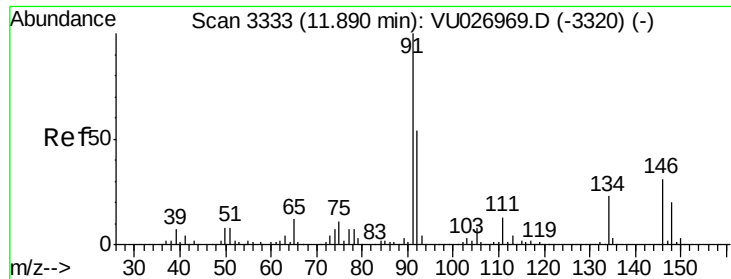
20000

10000

0

Time-->





#89

n-Butylbenzene

Concen: 2.396 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.00 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

Instrument :

MSVOA_U

ClientSampleId :

FB-1-SEP18

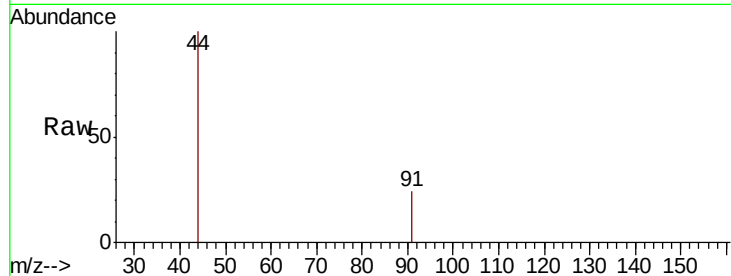
Tgt Ion: 91 Resp: 19

Ion Ratio Lower Upper

91 100

92 0.0 27.1 81.2#

134 0.0 11.7 35.0#



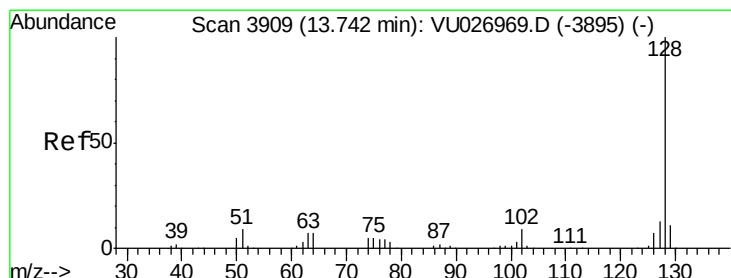
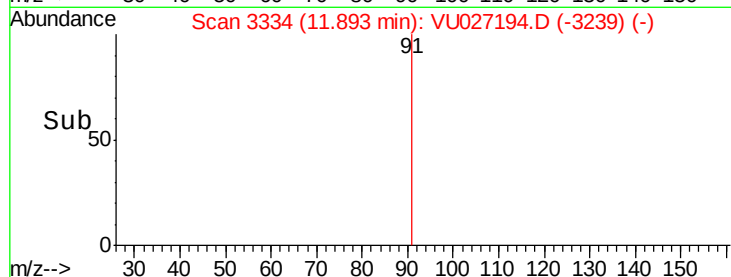
Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

11.89

Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->



#95

Naphthalene

Concen: 1.693 ug/l

RT: 13.76 min Scan# 3916

Delta R.T. 0.02 min

Lab File: VU027194.D

Acq: 26 Sep 2018 22:27

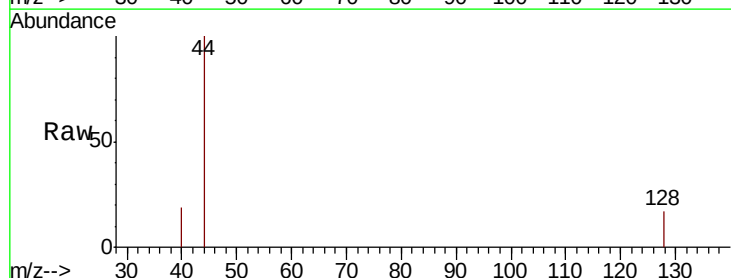
Tgt Ion: 128 Resp: 21

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

13.76

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

Time-->

