

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092818\
 Data File : VU027292.D
 Acq On : 29 Sep 2018 00:00
 Operator : MD/SY
 Sample : PB113306ZHE#03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB

Quant Time: Sep 29 01:42:02 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	112471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	192390	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	182430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	86631	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	107091	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
35) Dibromofluoromethane	4.88	113	76809	46.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.12%	
50) Toluene-d8	7.57	98	298805	47.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.04%	
62) 4-Bromofluorobenzene	10.31	95	100472	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	

Target Compounds

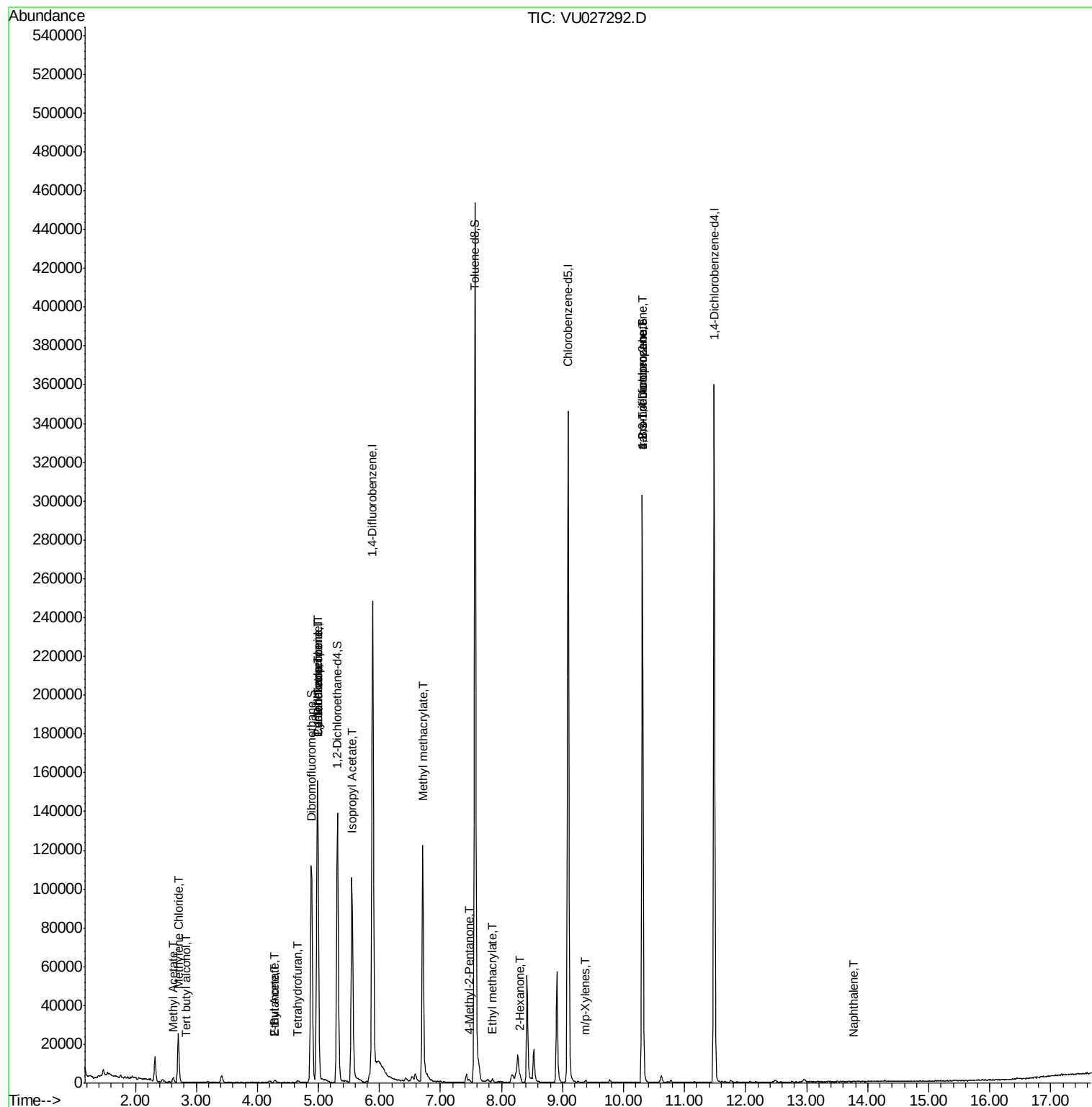
					Qvalue	
11) Tert butyl alcohol	2.83	59	173	0.333 ug/l #	72	
16) Acetone	2.32	43	14419	Below Cal	100	
18) Methyl Acetate	2.62	43	3543	1.100 ug/l #	90	
20) Methylene Chloride	2.70	84	10524	5.191 ug/l	96	
25) 2-Butanone	4.28	43	2083	1.095 ug/l #	90	
29) Tetrahydrofuran	4.66	42	876	0.761 ug/l #	50	
31) Cyclohexane	4.98	56	2750	0.243 ug/l #	1	
36) 1,1-Dichloropropene	4.99	75	10035	3.908 ug/l #	49	
37) Ethyl Acetate	4.28	43	2083	0.599 ug/l #	70	
38) Carbon Tetrachloride	4.98	117	11478	4.697 ug/l #	18	
43) Isopropyl Acetate	5.55	43	125074	24.673 ug/l	99	
48) Methyl methacrylate	6.71	41	11605	5.133 ug/l #	46	
51) 4-Methyl-2-Pentanone	7.46	43	1219	0.358 ug/l	97	
56) Ethyl methacrylate	7.85	69	41	2.205 ug/l #	1	
59) 2-Hexanone	8.31	43	1398	0.524 ug/l #	26	
68) m/p-Xylenes	9.38	106	404	1.624 ug/l #	69	
76) 1,2,3-Trichloropropane	10.31	75	53165	20.201 ug/l #	35	
81) trans-1,4-Dichloro-2-buten	10.31	75	53165	64.646 ug/l #	100	
95) Naphthalene	13.76	128	249	1.723 ug/l #	69	

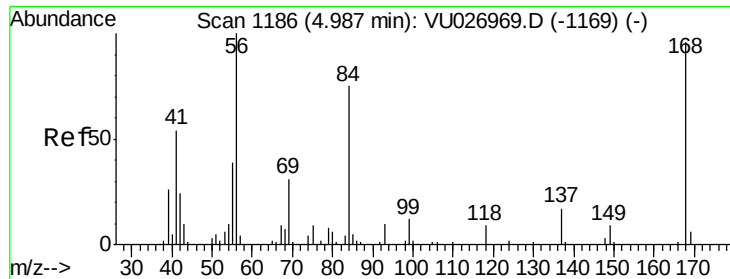
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampleId :

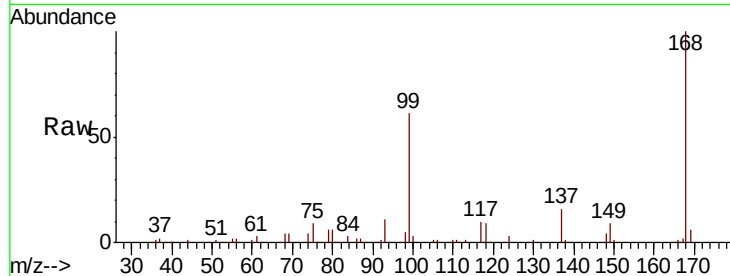
BFB

Tgt Ion:168 Resp: 112471

Ion Ratio Lower Upper

168 100

99 60.6 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

50000

40000

30000

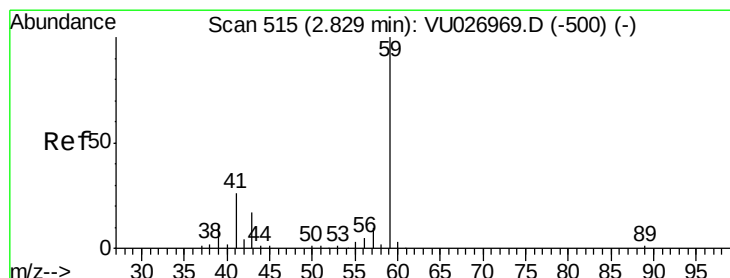
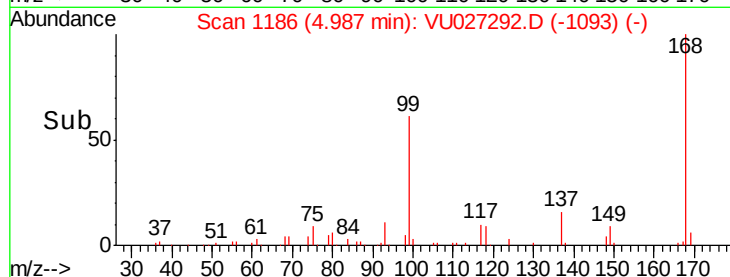
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#11

Tert butyl alcohol

Concen: 0.333 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU027292.D

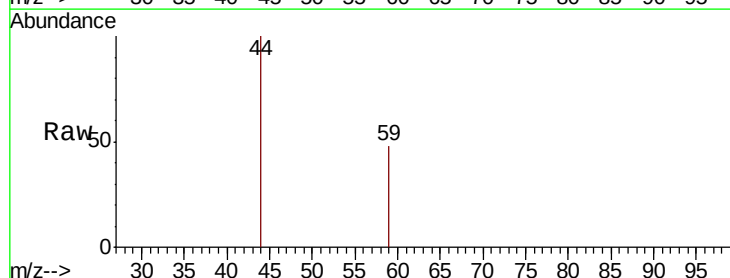
Acq: 29 Sep 2018 00:00

Tgt Ion: 59 Resp: 173

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

150

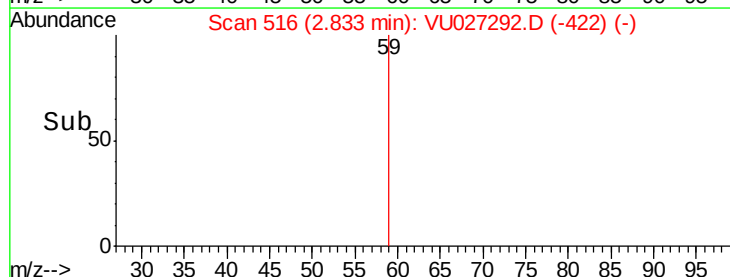
100

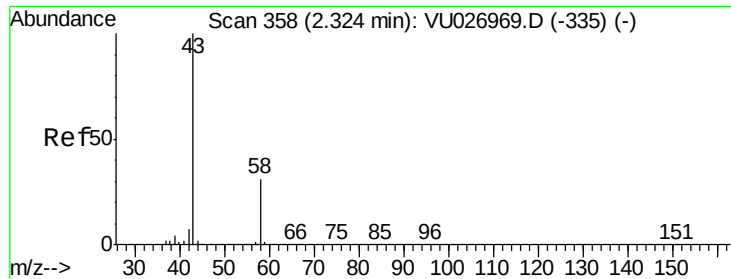
50

0

2.82 2.84 2.86

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampleId :

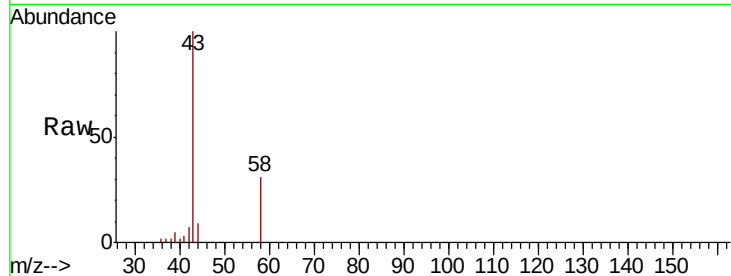
BFB

Tgt Ion: 43 Resp: 14419

Ion Ratio Lower Upper

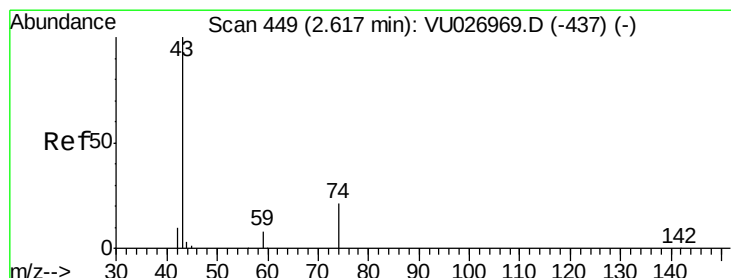
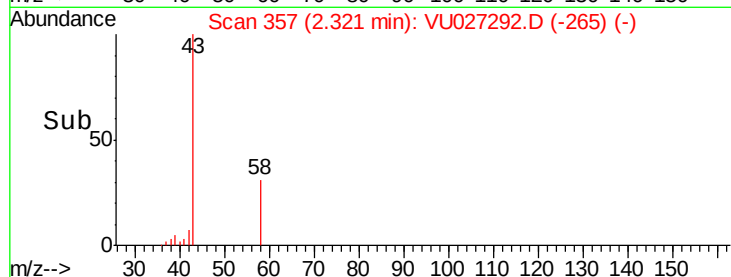
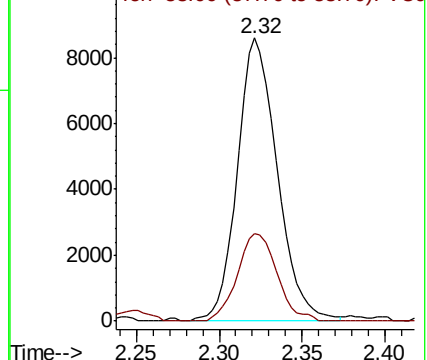
43 100

58 30.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 1.100 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU027292.D

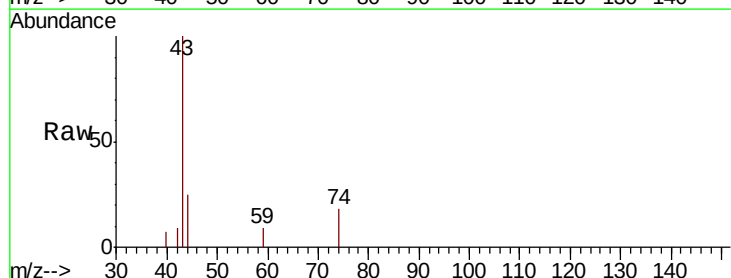
Acq: 29 Sep 2018 00:00

Tgt Ion: 43 Resp: 3543

Ion Ratio Lower Upper

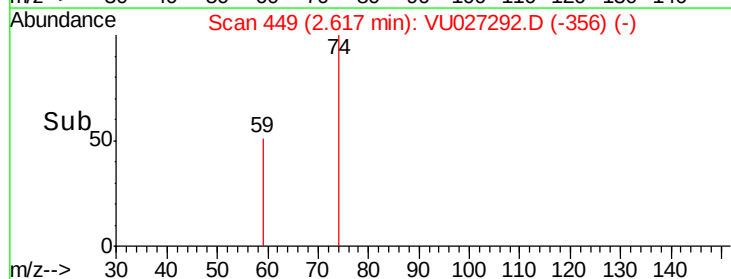
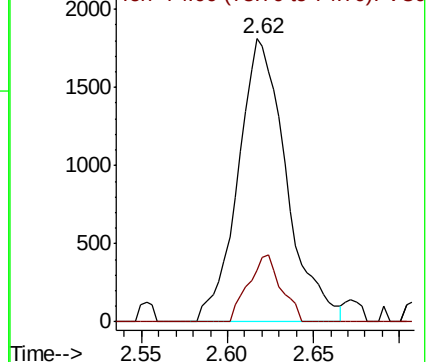
43 100

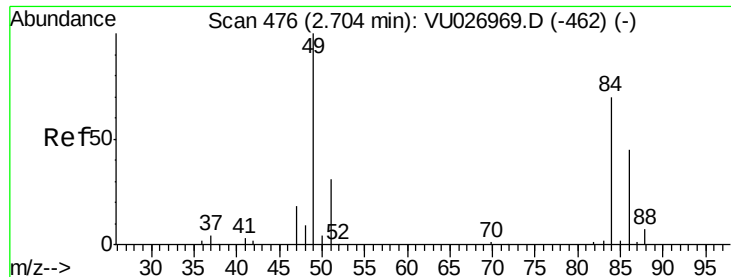
74 16.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

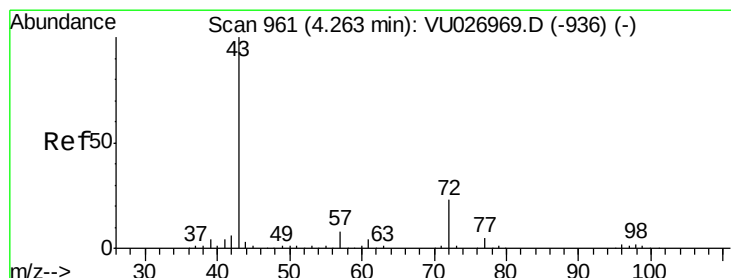
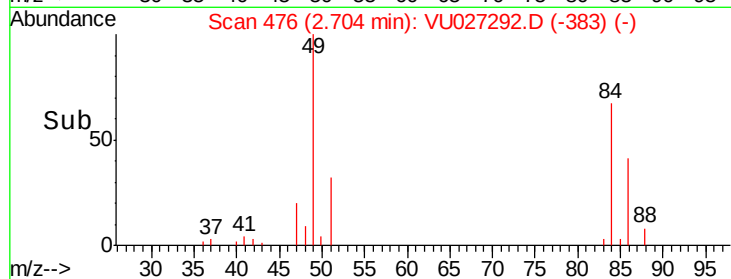
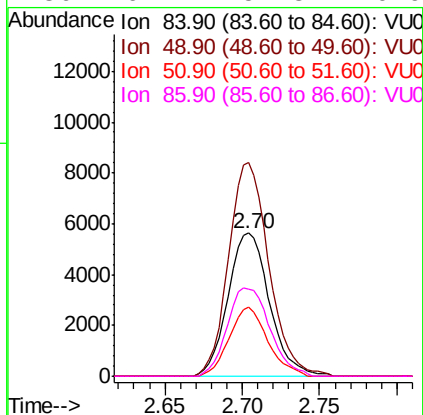
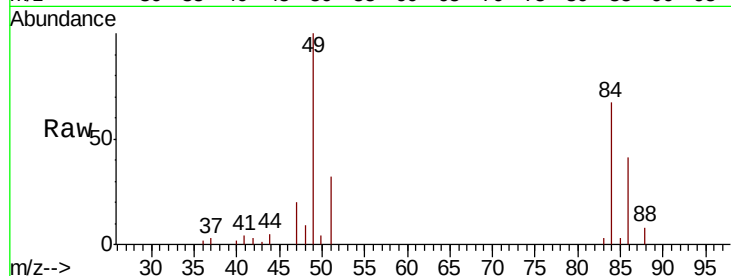




#20
Methylene Chloride
Concen: 5.191 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027292.D
Acq: 29 Sep 2018 00:00

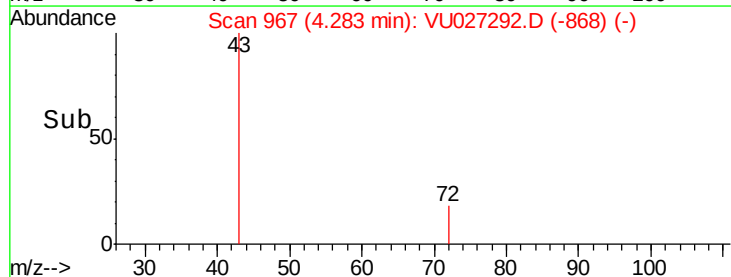
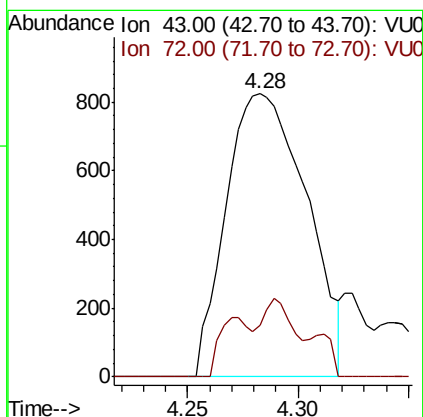
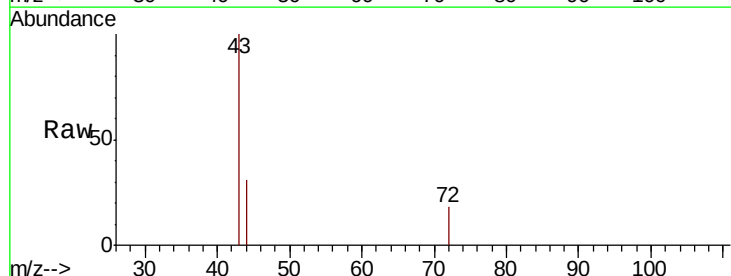
Instrument :
MSVOA_U
ClientSampleId :
BFB

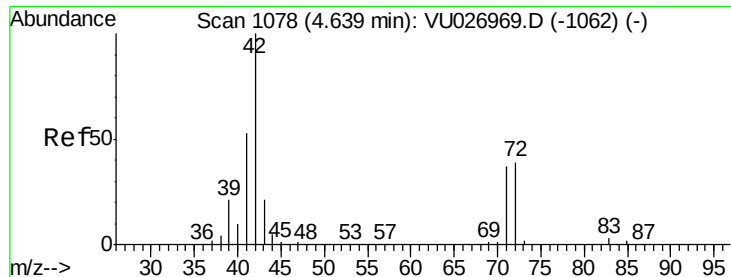
Tgt Ion:	84	Resp:	10524
Ion	Ratio	Lower	Upper
84	100		
49	149.2	114.9	172.3
51	48.2	35.8	53.8
86	61.2	51.3	76.9



#25
2-Butanone
Concen: 1.095 ug/l
RT: 4.28 min Scan# 967
Delta R.T. 0.02 min
Lab File: VU027292.D
Acq: 29 Sep 2018 00:00

Tgt Ion:	43	Resp:	2083
Ion	Ratio	Lower	Upper
43	100		
72	18.1	18.4	27.6#





#29

Tetrahydrofuran

Concen: 0.761 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampled :

BFB

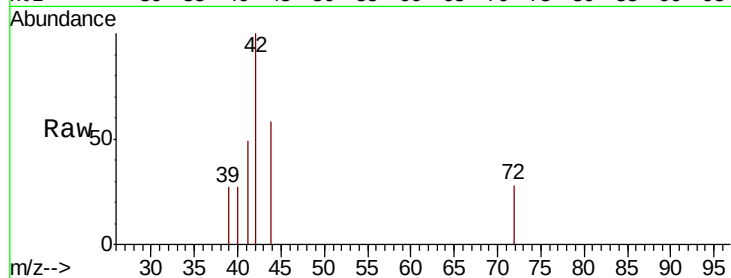
Tgt Ion: 42 Resp: 876

Ion Ratio Lower Upper

42 100

72 11.6 31.7 47.5#

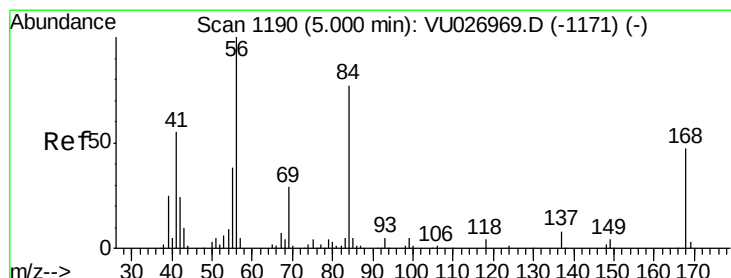
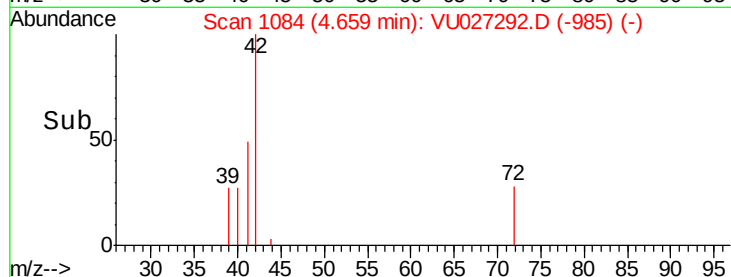
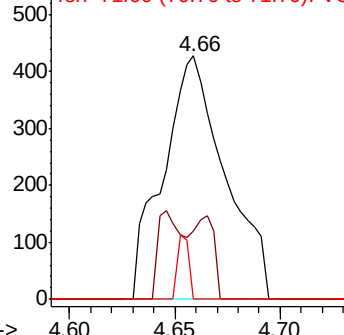
71 4.7 29.6 44.4#



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#31

Cyclohexane

Concen: 0.243 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

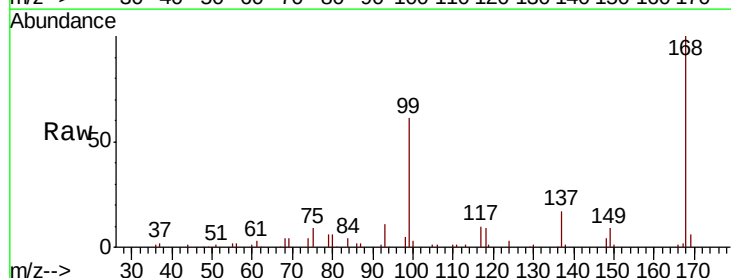
Tgt Ion: 56 Resp: 2750

Ion Ratio Lower Upper

56 100

69 175.4 23.0 34.4#

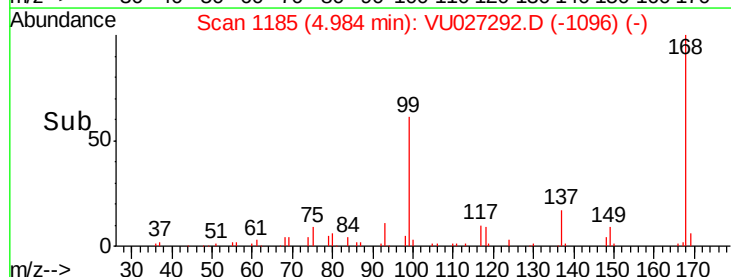
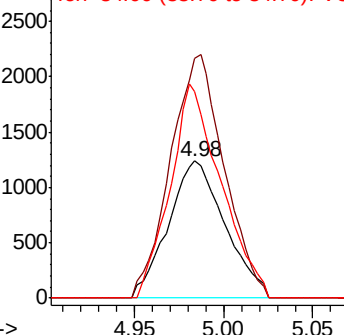
84 150.5 61.4 92.2#

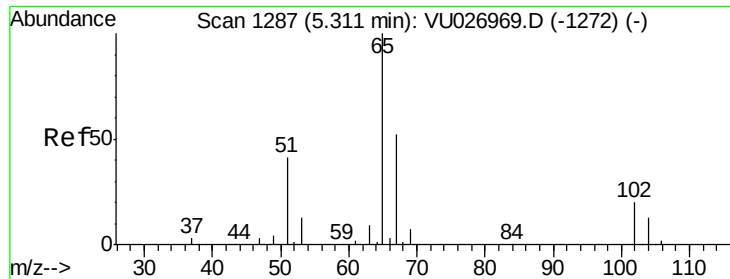


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

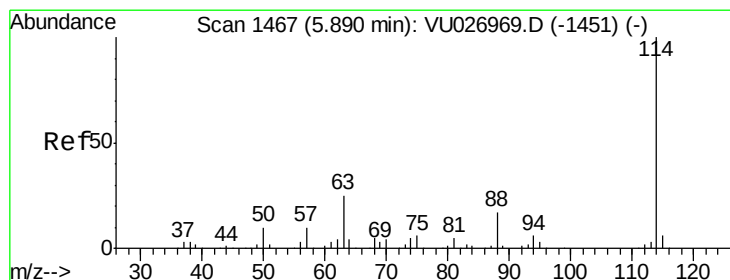
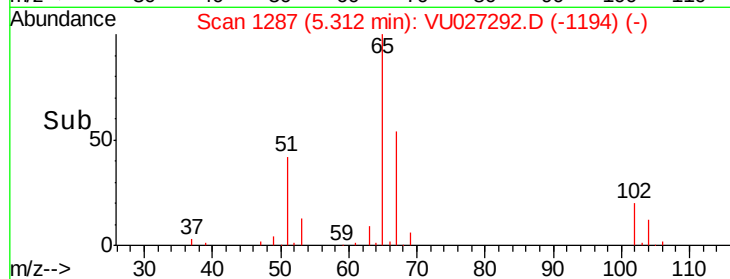
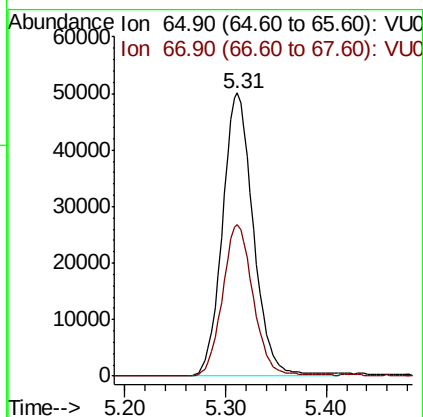
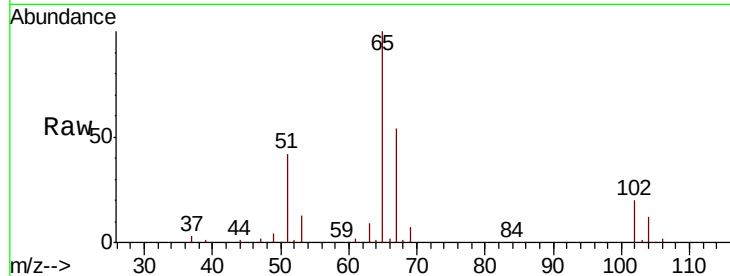




#33
 1,2-Dichloroethane-d4
 Concen: 47.309 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

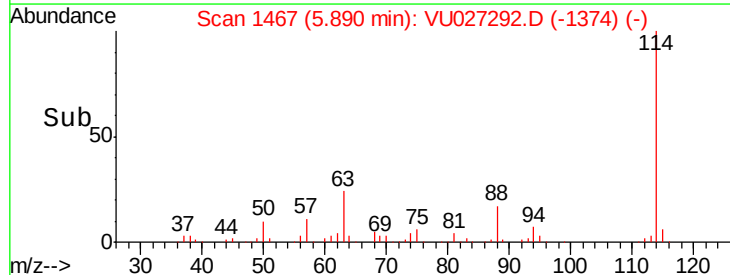
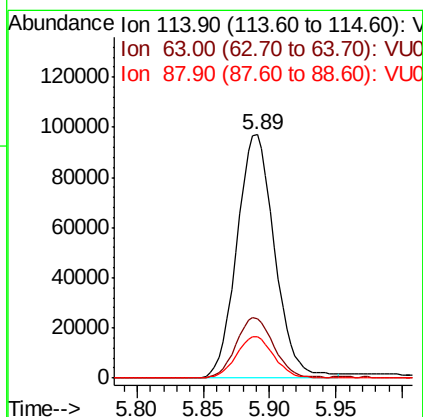
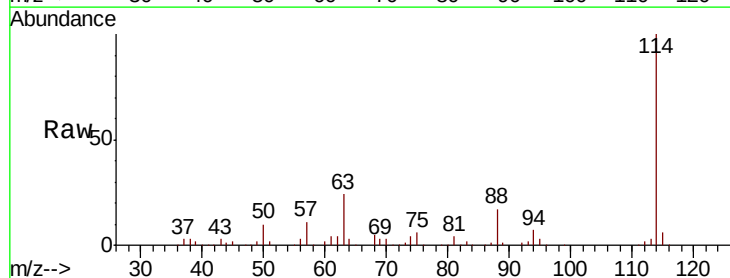
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB

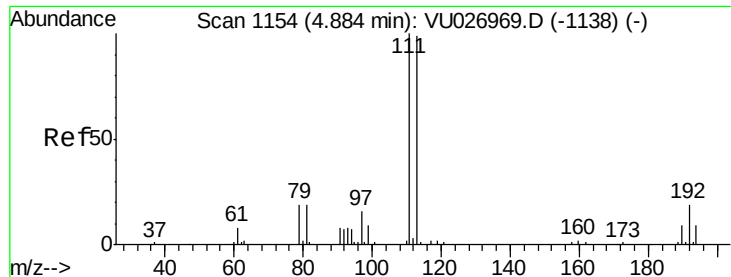
Tgt Ion: 65 Resp: 107091
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

Tgt Ion: 114 Resp: 192390
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 49.2
 88 16.9 0.0 33.8

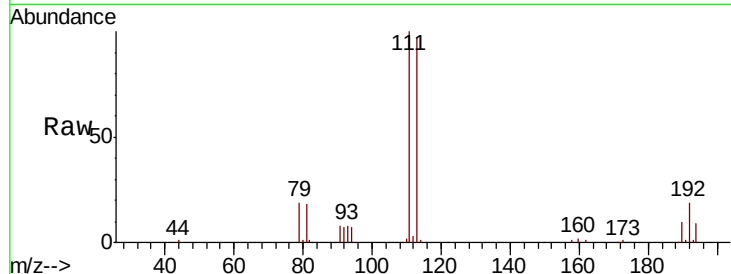




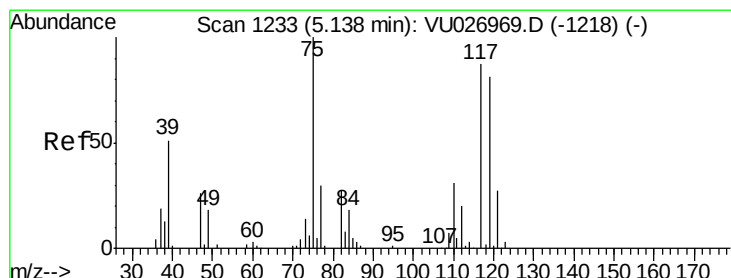
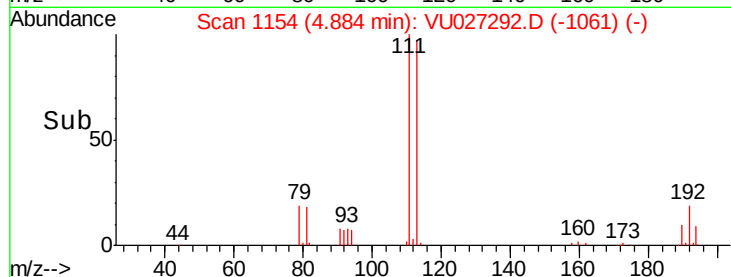
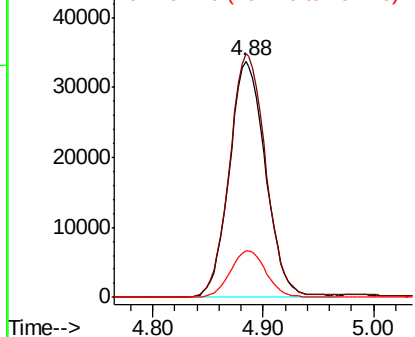
#35
 Dibromofluoromethane
 Concen: 46.058 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB

Tgt Ion:113 Resp: 76809
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.2 123.4
 192 19.5 15.2 22.8

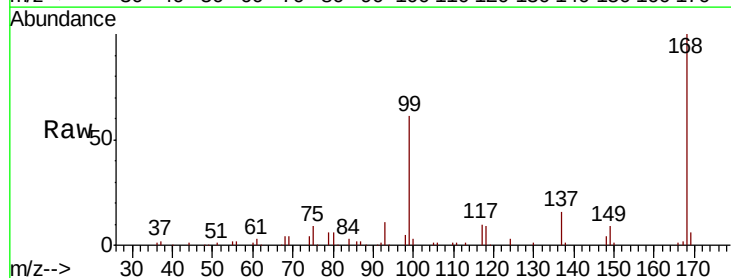


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

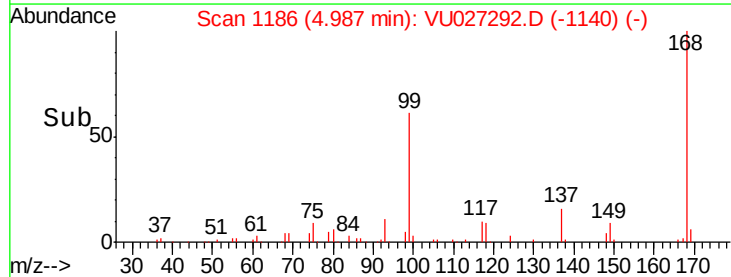
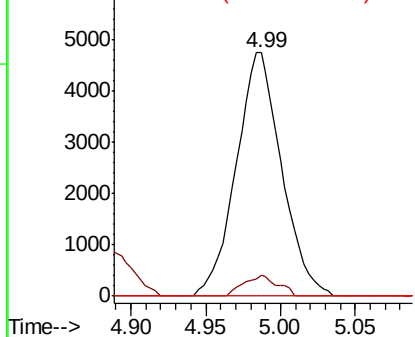


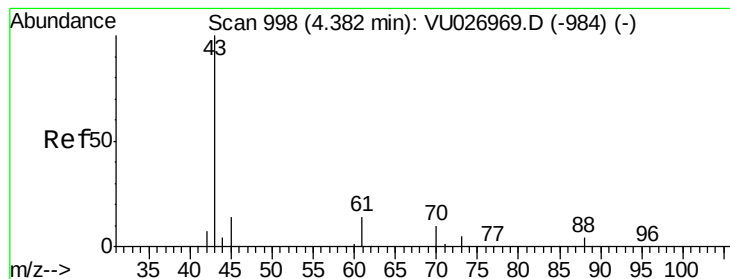
#36
 1,1-Dichloropropene
 Concen: 3.908 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

Tgt Ion: 75 Resp: 10035
 Ion Ratio Lower Upper
 75 100
 110 6.3 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





#37

Ethyl Acetate

Concen: 0.599 ug/l

RT: 4.28 min Scan# 967

Delta R.T. -0.10 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampled :

BFB

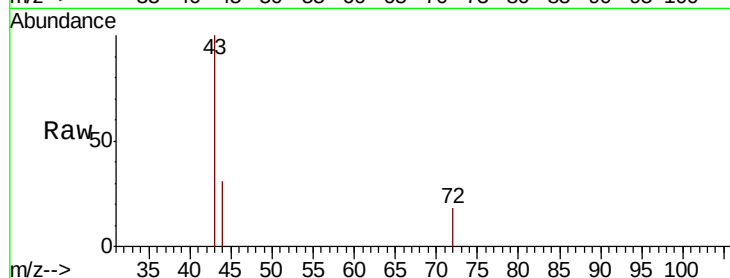
Tgt Ion: 43 Resp: 2083

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

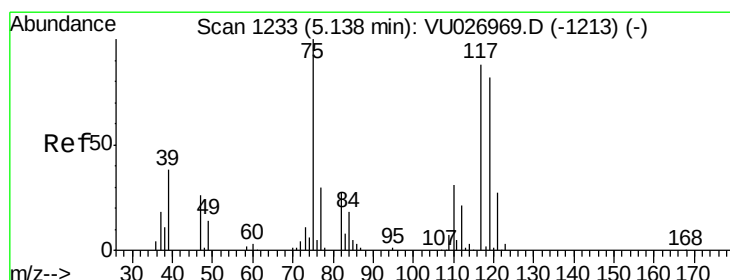
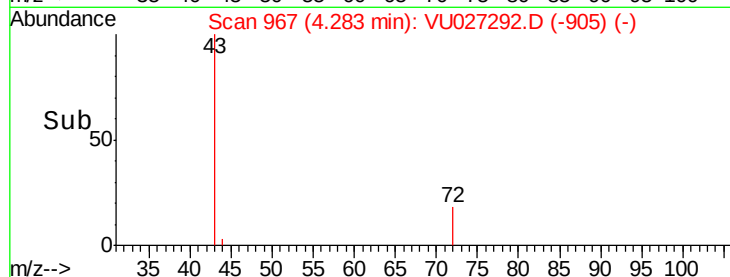
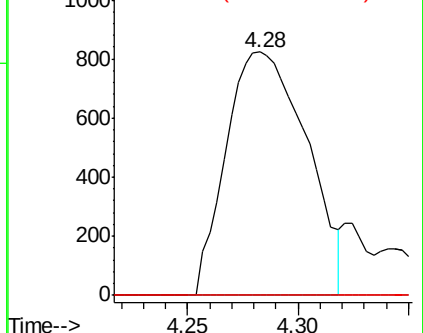
70 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VU027292.D (-905) (-)

Ion 60.90 (60.60 to 61.60): VU027292.D (-905) (-)

Ion 70.00 (69.70 to 70.70): VU027292.D (-905) (-)



#38

Carbon Tetrachloride

Concen: 4.697 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

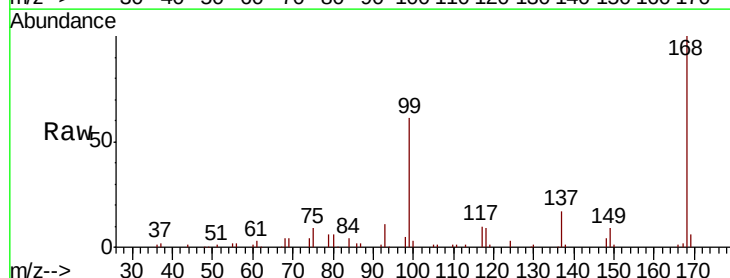
Tgt Ion: 117 Resp: 11478

Ion Ratio Lower Upper

117 100

119 5.6 74.4 111.6#

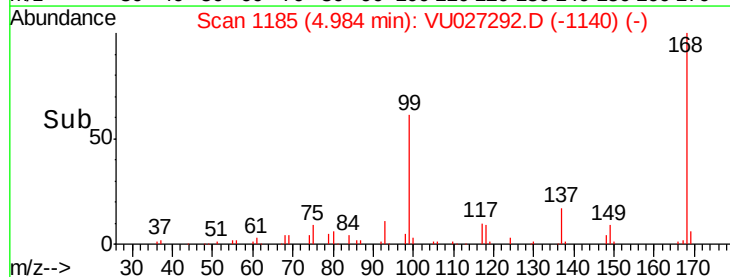
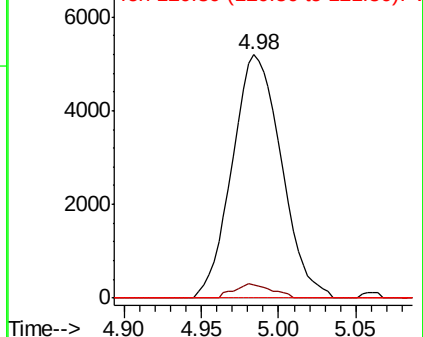
121 0.0 24.2 36.4#

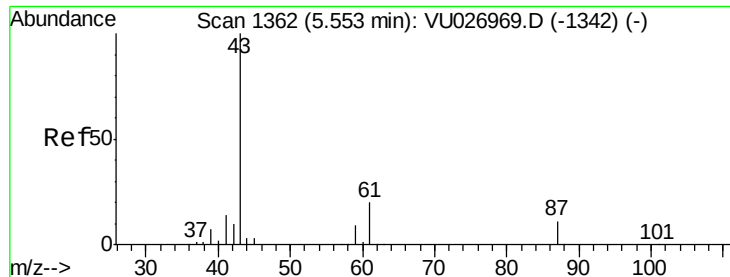


Abundance Ion 116.80 (116.50 to 117.50): VU027292.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU027292.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU027292.D (-1140) (-)





#43

Isopropyl Acetate

Concen: 24.673 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampleId :

BFB

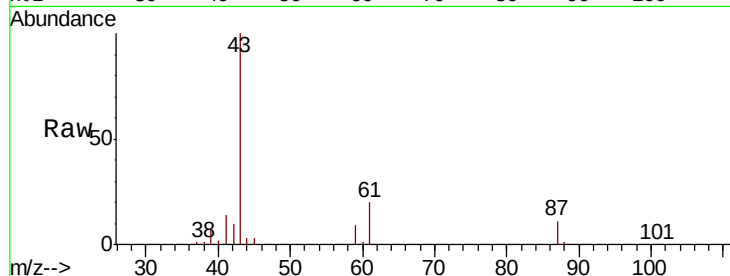
Tgt Ion: 43 Resp: 125074

Ion Ratio Lower Upper

43 100

61 19.5 15.7 23.5

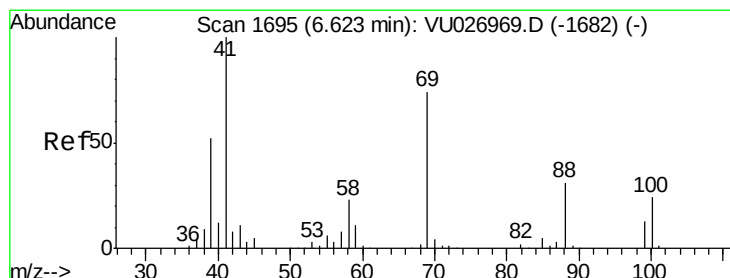
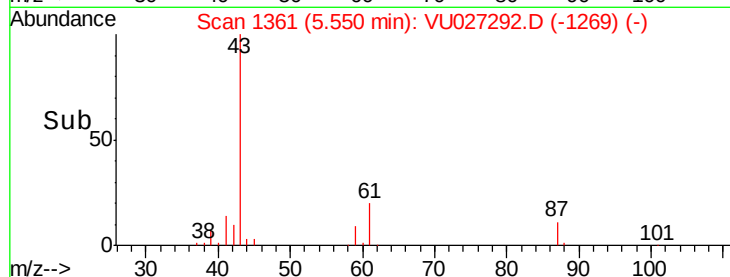
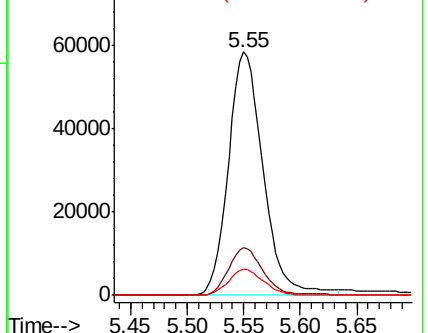
87 10.7 9.0 13.4



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1342) (-)

Ion 61.00 (60.70 to 61.70): VU026969.D (-1342) (-)

Ion 87.00 (86.70 to 87.70): VU026969.D (-1342) (-)



#48

Methyl methacrylate

Concen: 5.133 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

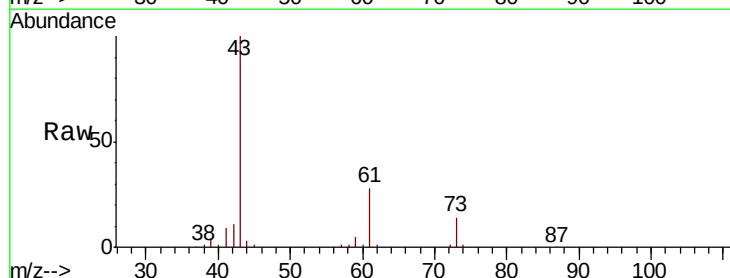
Tgt Ion: 41 Resp: 11605

Ion Ratio Lower Upper

41 100

69 0.0 60.6 90.8#

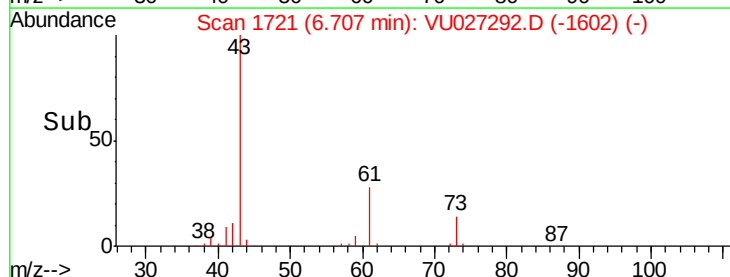
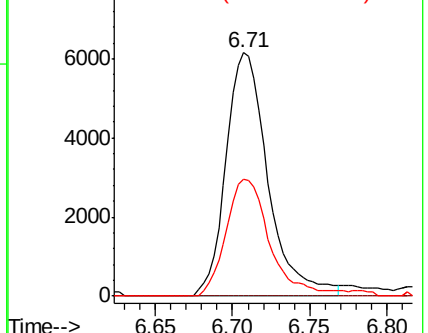
39 50.3 42.8 64.2

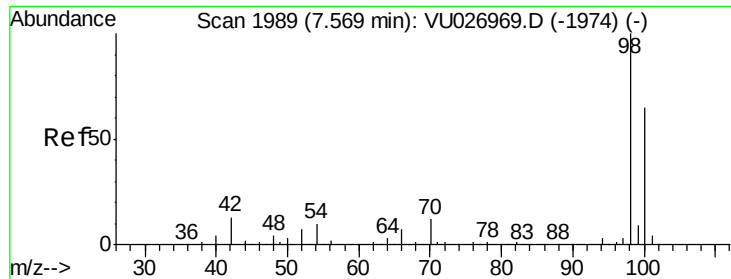


Abundance Ion 41.00 (40.70 to 41.70): VU026969.D (-1682) (-)

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

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

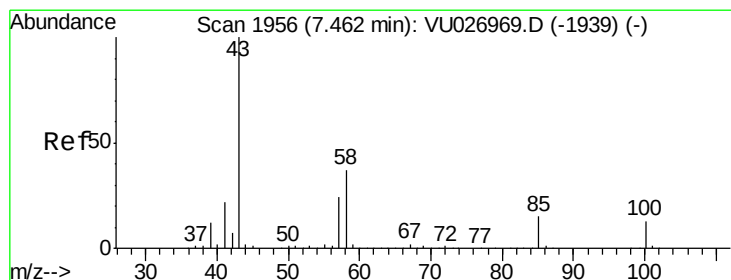
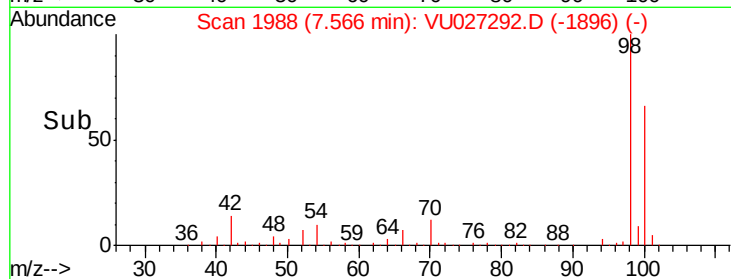
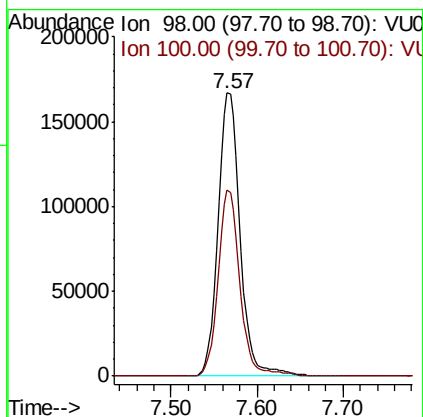
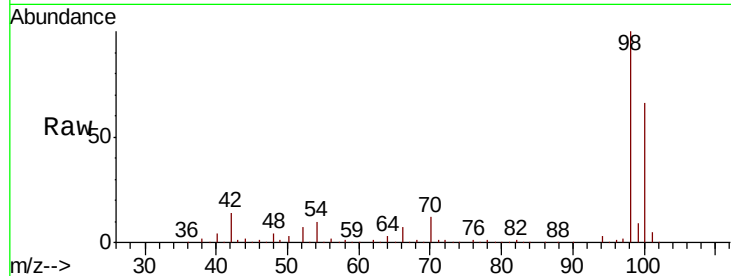




#50
Toluene-d8
Concen: 47.016 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027292.D
Acq: 29 Sep 2018 00:00

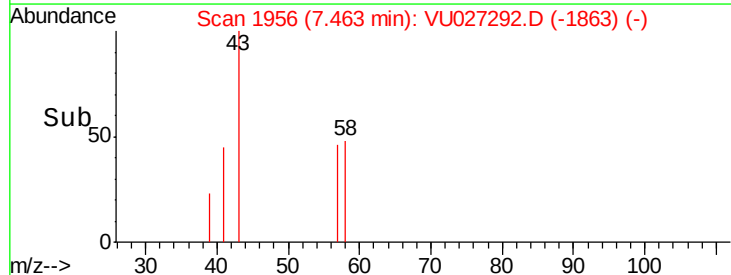
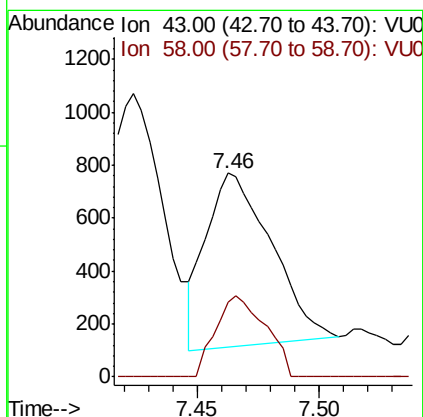
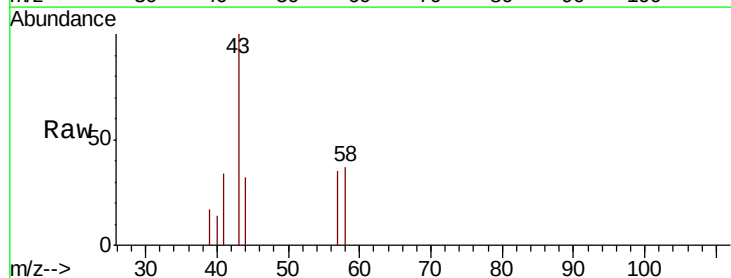
Instrument :
MSVOA_U
ClientSampled :
BFB

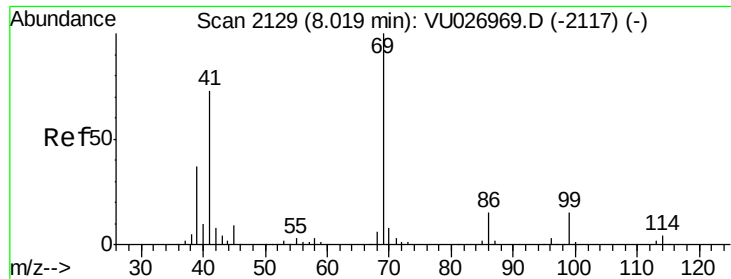
Tgt Ion: 98 Resp: 298805
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.358 ug/l
RT: 7.46 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VU027292.D
Acq: 29 Sep 2018 00:00

Tgt Ion: 43 Resp: 1219
Ion Ratio Lower Upper
43 100
58 35.7 29.8 44.6

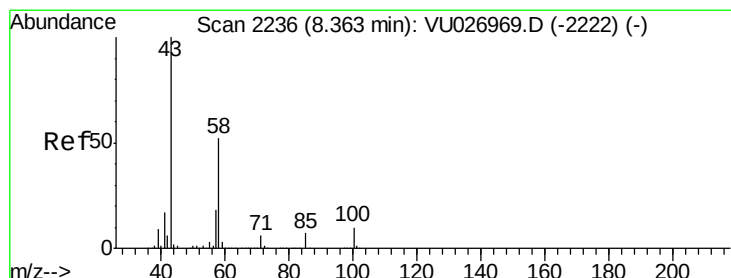
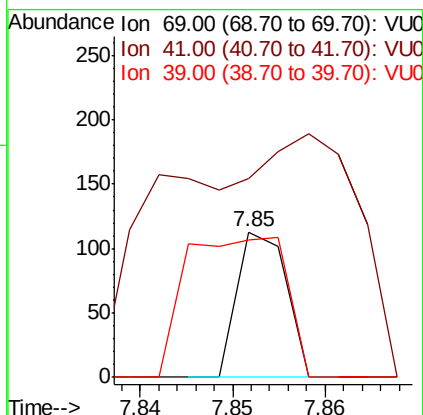
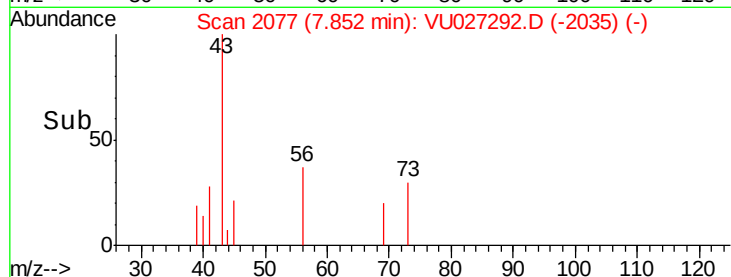
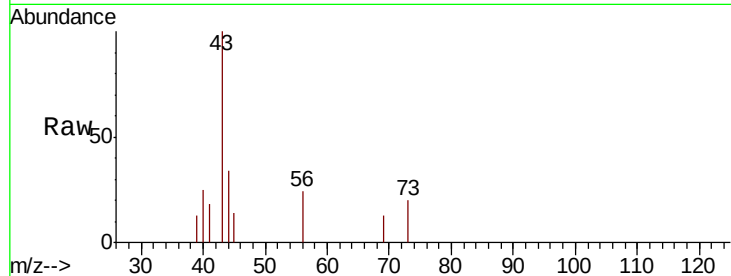




#56
Ethyl methacrylate
Concen: 2.205 ug/l
RT: 7.85 min Scan# 2077
Delta R.T. -0.17 min
Lab File: VU027292.D
Acq: 29 Sep 2018 00:00

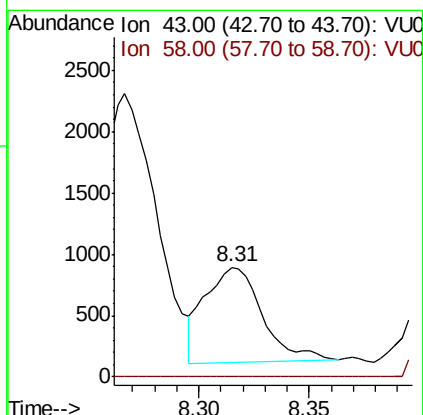
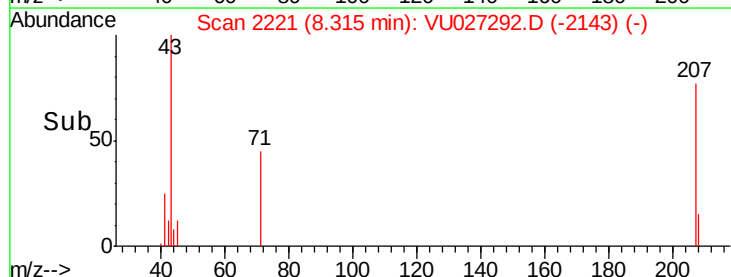
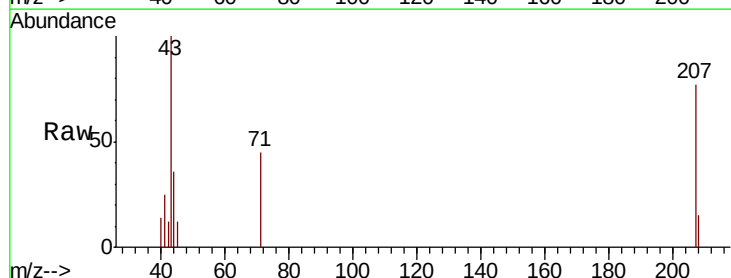
Instrument :
MSVOA_U
ClientSampleId :
BFB

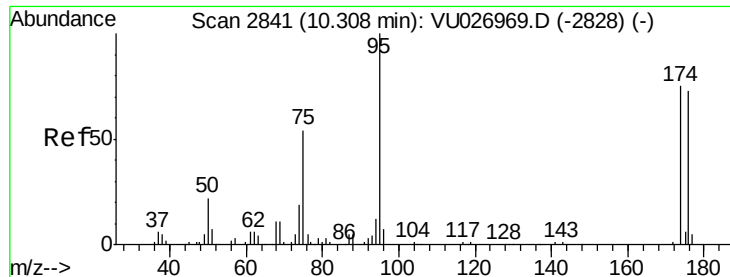
Tgt Ion: 69 Resp: 41
Ion Ratio Lower Upper
69 100
41 648.8 59.0 88.4#
39 197.6 30.2 45.4#



#59
2-Hexanone
Concen: 0.524 ug/l
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU027292.D
Acq: 29 Sep 2018 00:00

Tgt Ion: 43 Resp: 1398
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.2#

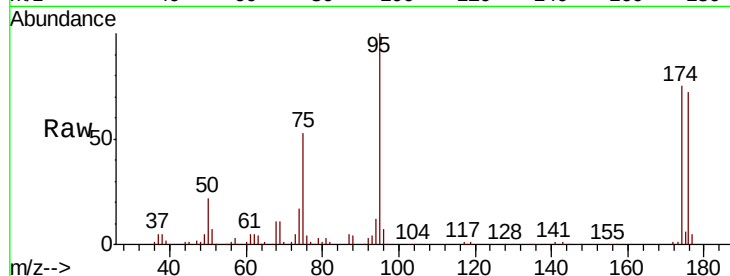




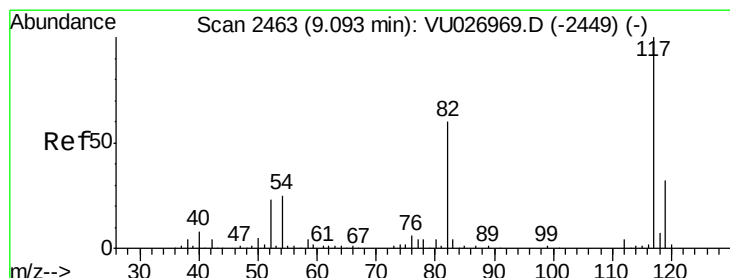
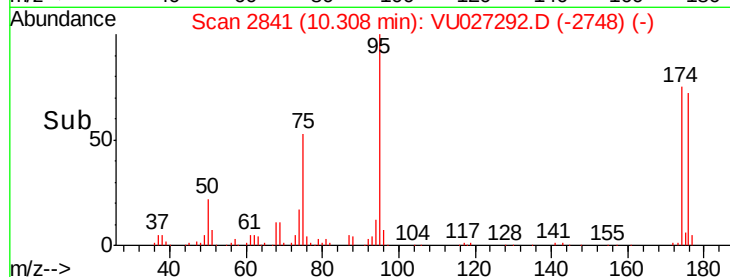
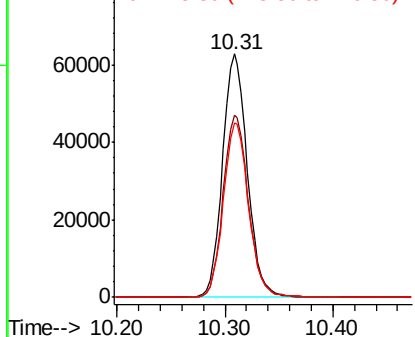
#62
 4-Bromofluorobenzene
 Concen: 46.072 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

Instrument :
 MSVOA_U
 ClientSampled :
 BFB

Tgt Ion: 95 Resp: 100472
 Ion Ratio Lower Upper
 95 100
 174 76.2 0.0 150.2
 176 73.0 0.0 145.2

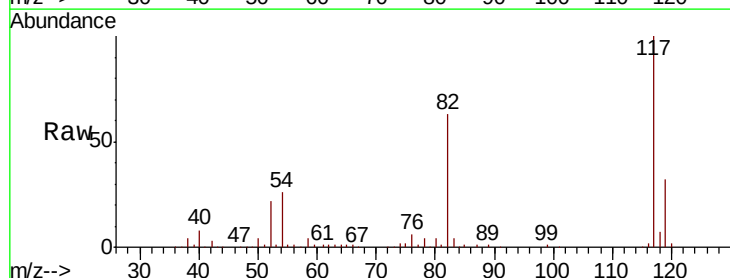


Abundance Ion 94.90 (94.60 to 95.60): VU
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

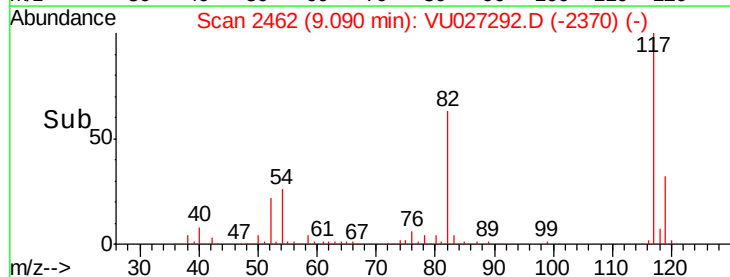
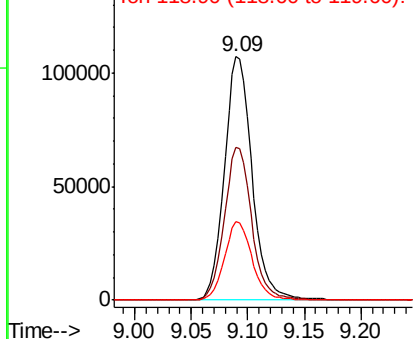


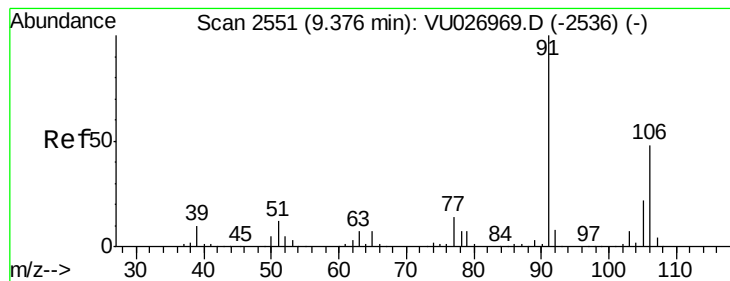
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

Tgt Ion: 117 Resp: 182430
 Ion Ratio Lower Upper
 117 100
 82 62.8 48.0 72.0
 119 32.3 25.8 38.8



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





#68

m/p-Xylenes

Concen: 1.624 ug/l

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampleId :

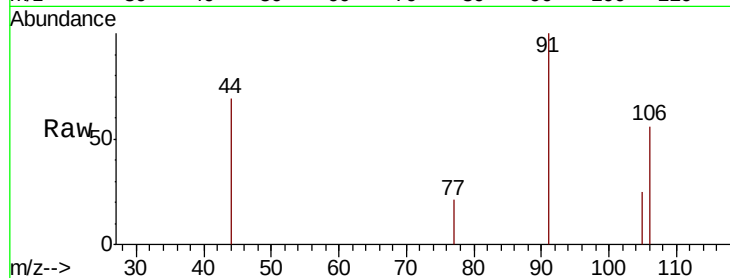
BFB

Tgt Ion:106 Resp: 404

Ion Ratio Lower Upper

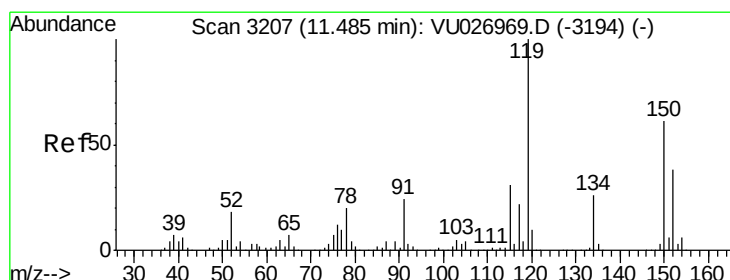
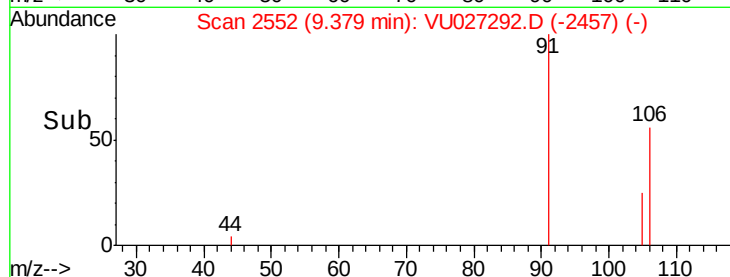
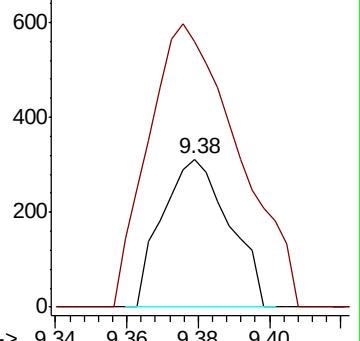
106 100

91 256.7 166.5 249.7#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

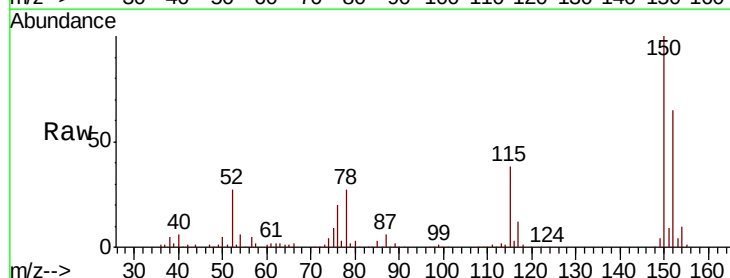
Tgt Ion:152 Resp: 86631

Ion Ratio Lower Upper

152 100

115 59.7 44.9 134.5

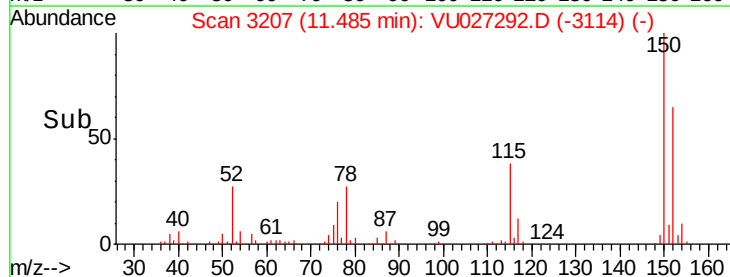
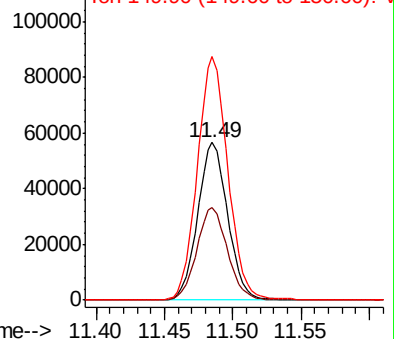
150 157.0 0.0 355.8

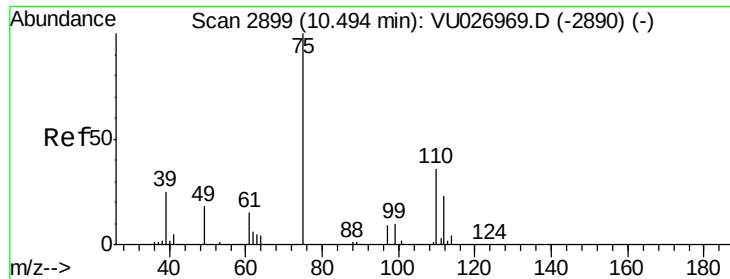


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

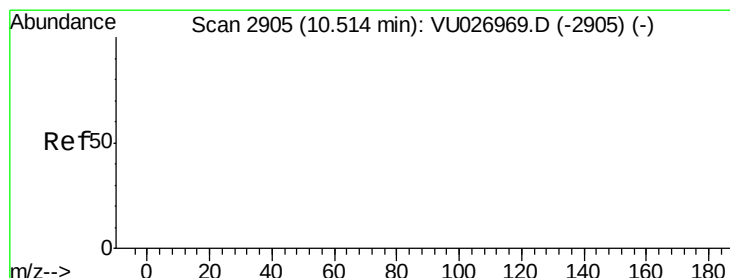
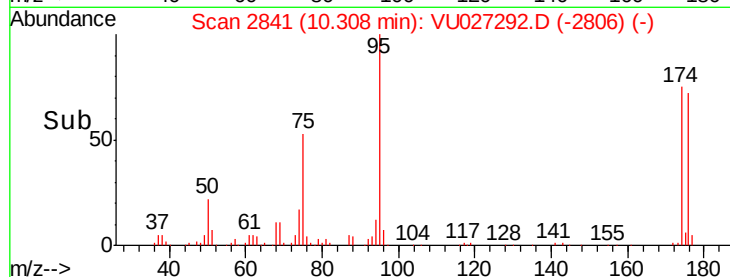
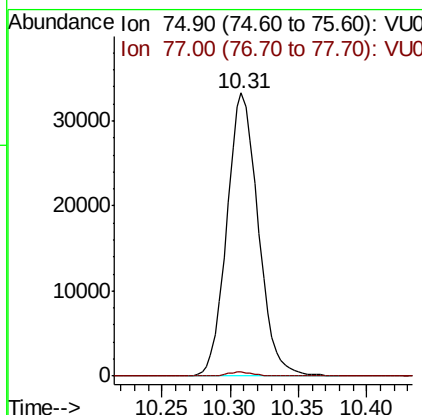
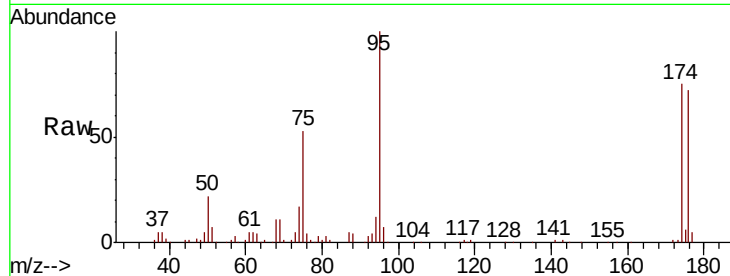




#76
 1,2,3-Trichloropropane
 Concen: 20.201 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.19 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

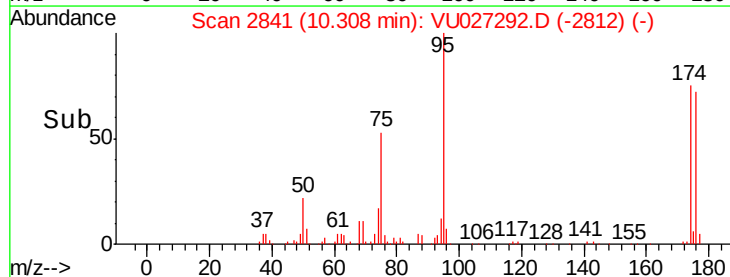
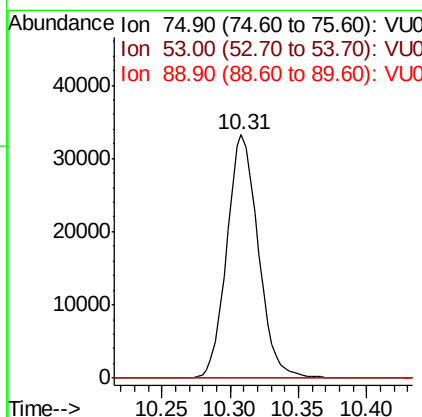
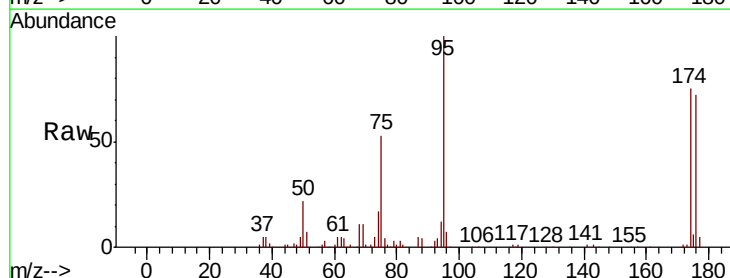
Instrument :
 MSVOA_U
 ClientSampled :
 BFB

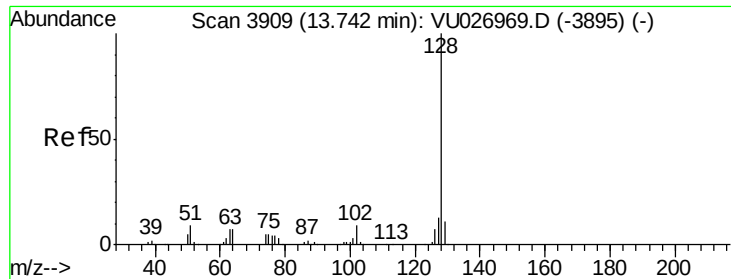
Tgt Ion: 75 Resp: 53165
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.646 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.21 min
 Lab File: VU027292.D
 Acq: 29 Sep 2018 00:00

Tgt Ion: 75 Resp: 53165
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 1.723 ug/l

RT: 13.76 min Scan# 3915

Delta R.T. 0.02 min

Lab File: VU027292.D

Acq: 29 Sep 2018 00:00

Instrument :

MSVOA_U

ClientSampleId :

BFB

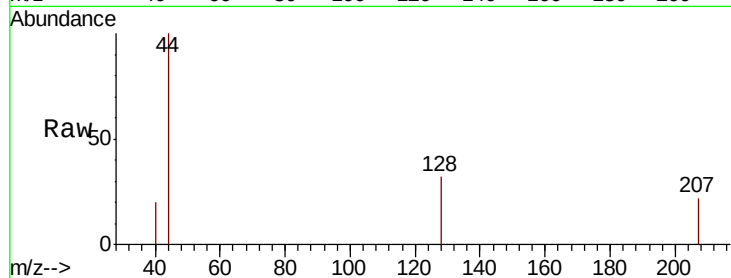
Tgt Ion:128 Resp: 249

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

