

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092818\
 Data File : VU027294.D
 Acq On : 29 Sep 2018 00:46
 Operator : MD/SY
 Sample : PB113306ZHE#05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#05

Quant Time: Sep 29 01:42:24 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	112573	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	191620	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	182605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	86047	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	107532	47.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.92%	
35) Dibromofluoromethane	4.88	113	76821	46.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.50%	
50) Toluene-d8	7.57	98	302185	47.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.48%	
62) 4-Bromofluorobenzene	10.31	95	100270	46.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.32%	

Target Compounds

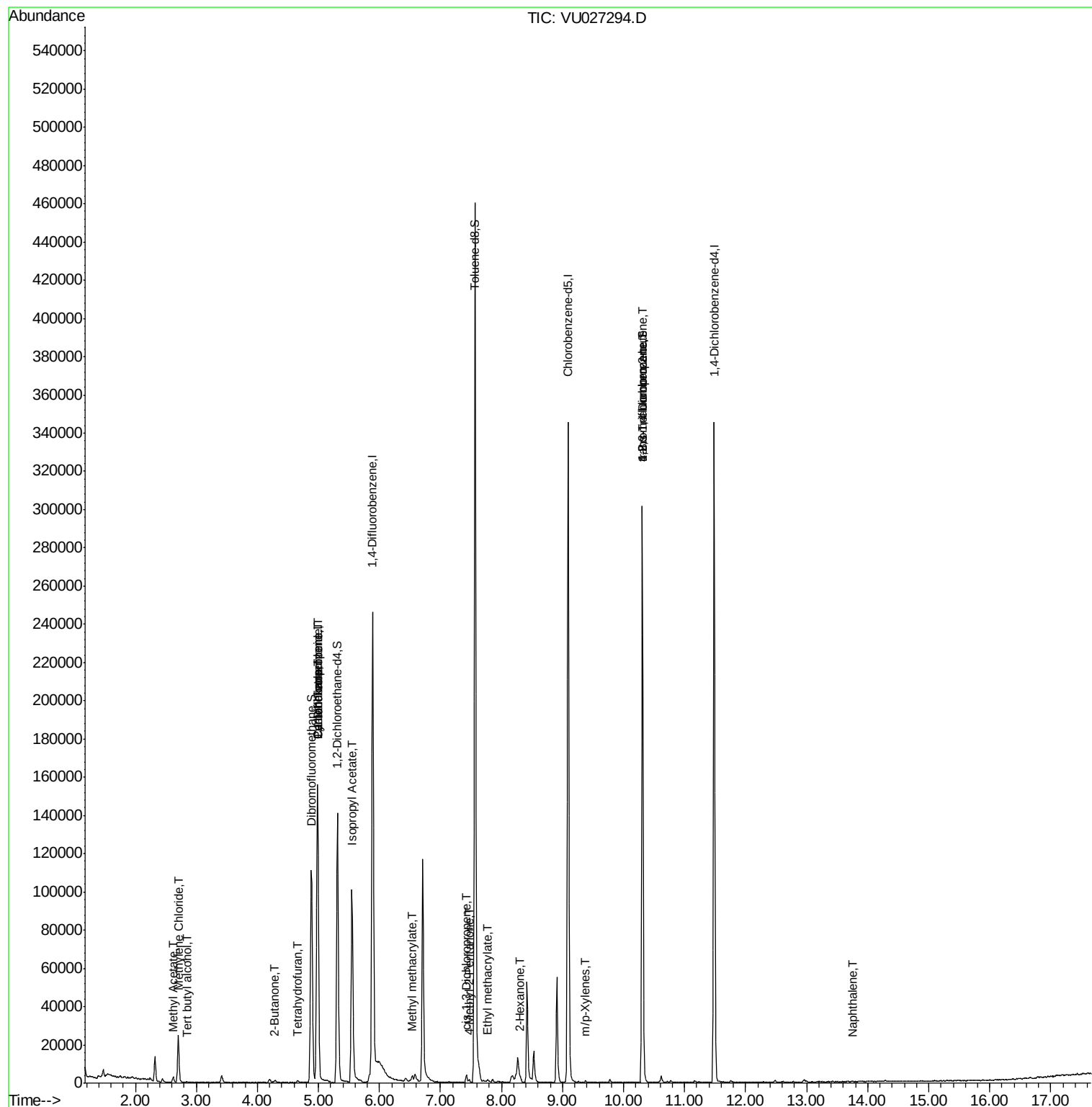
					Qvalue	
11) Tert butyl alcohol	2.84	59	125	0.241	ug/l #	72
16) Acetone	2.32	43	14038	Below	Cal	96
18) Methyl Acetate	2.62	43	3378	1.047	ug/l #	90
20) Methylene Chloride	2.70	84	10113	4.984	ug/l	98
25) 2-Butanone	4.29	43	2235	1.174	ug/l	94
29) Tetrahydrofuran	4.66	42	784	0.681	ug/l #	64
31) Cyclohexane	4.98	56	2686	0.223	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	10138	3.964	ug/l #	51
38) Carbon Tetrachloride	4.98	117	11254	4.624	ug/l #	17
43) Isopropyl Acetate	5.55	43	121588	24.082	ug/l	98
48) Methyl methacrylate	6.54	41	4971	2.784	ug/l #	23
51) 4-Methyl-2-Pentanone	7.47	43	950	0.280	ug/l	92
54) cis-1,3-Dichloropropene	7.42	75	693	0.217	ug/l #	63
56) Ethyl methacrylate	7.77	69	739	2.409	ug/l #	76
59) 2-Hexanone	8.31	43	1228	0.462	ug/l #	26
68) m/p-Xylenes	9.38	106	257	1.579	ug/l #	38
76) 1,2,3-Trichloropropane	10.31	75	53124	20.322	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	53124	65.035	ug/l #	100
95) Naphthalene	13.76	128	108	1.704	ug/l #	69

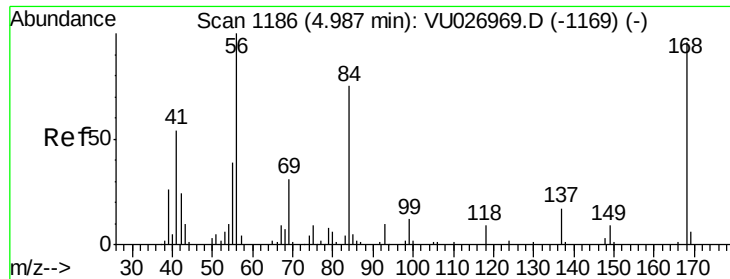
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 22 01:31:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

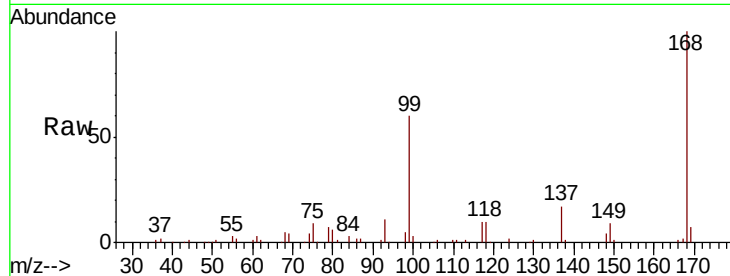
PB113306ZHE#05

Tgt Ion:168 Resp: 112573

Ion Ratio Lower Upper

168 100

99 60.0 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

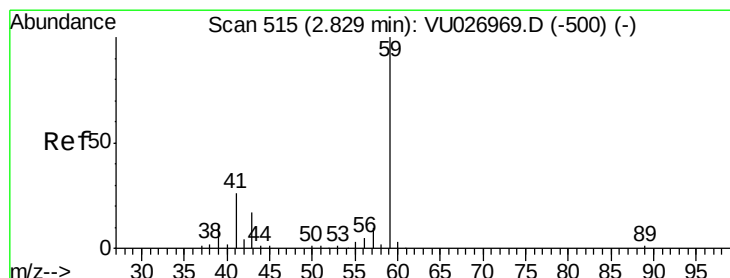
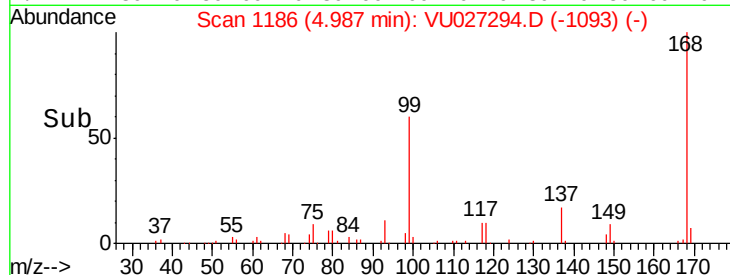
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#11

Tert butyl alcohol

Concen: 0.241 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.01 min

Lab File: VU027294.D

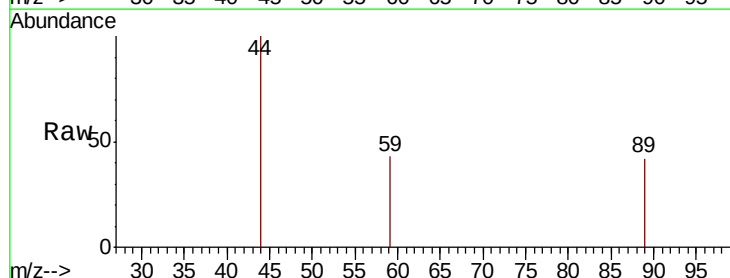
Acq: 29 Sep 2018 00:46

Tgt Ion: 59 Resp: 125

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) (-)

2.84

150

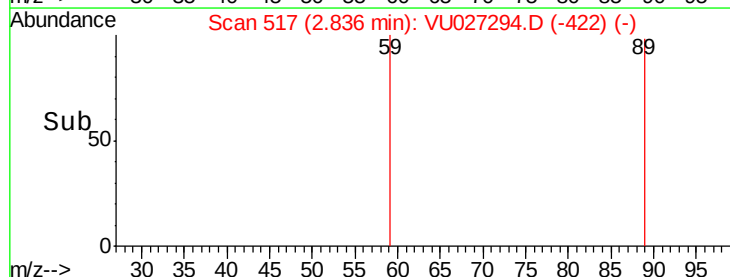
100

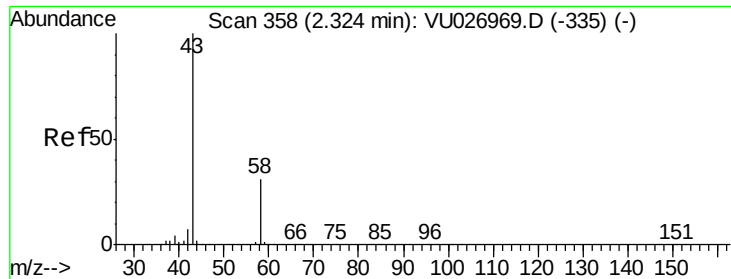
50

0

2.82 2.83 2.84 2.85

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

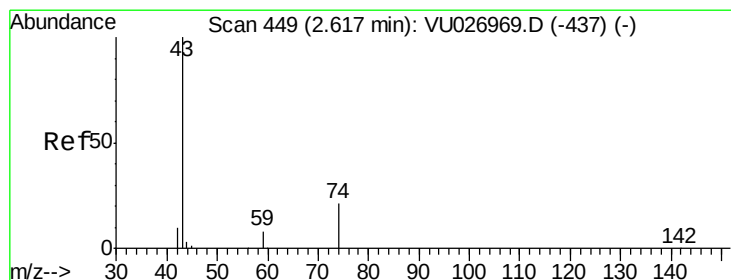
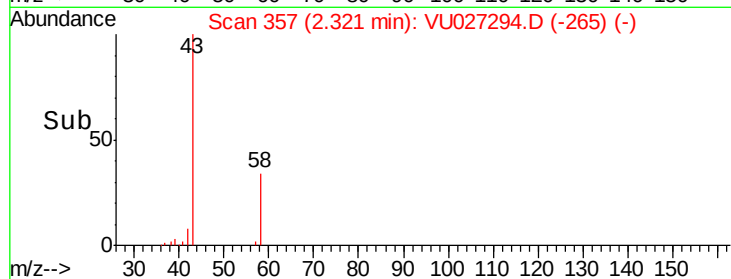
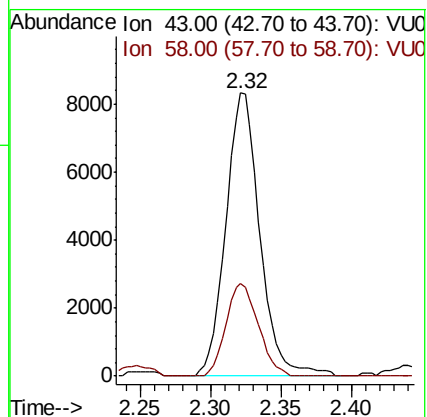
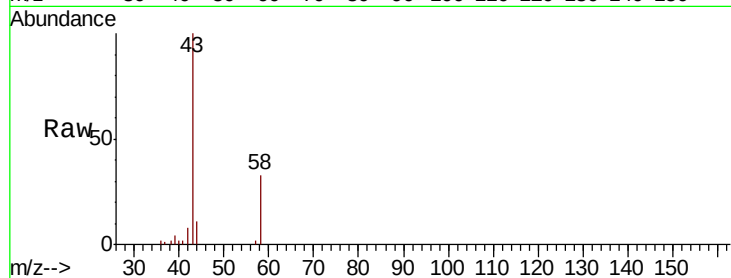
PB113306ZHE#05

Tgt Ion: 43 Resp: 14038

Ion Ratio Lower Upper

43 100

58 32.9 24.6 36.8



#18

Methyl Acetate

Concen: 1.047 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027294.D

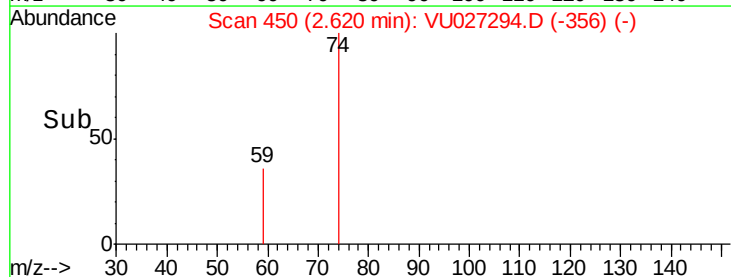
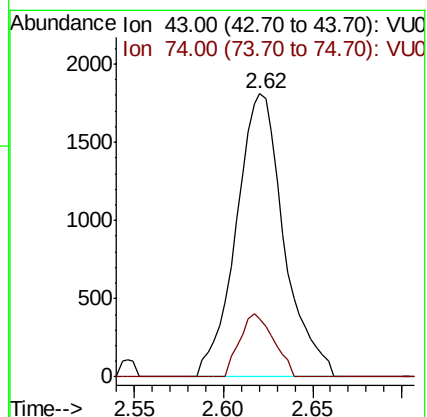
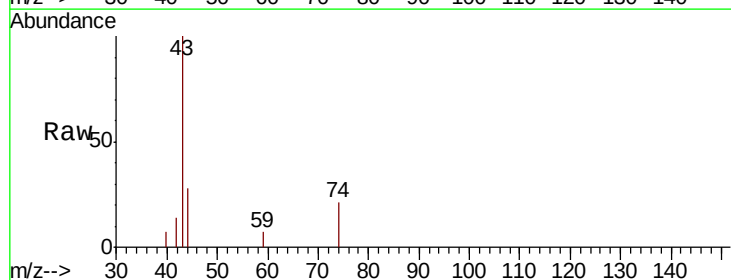
Acq: 29 Sep 2018 00:46

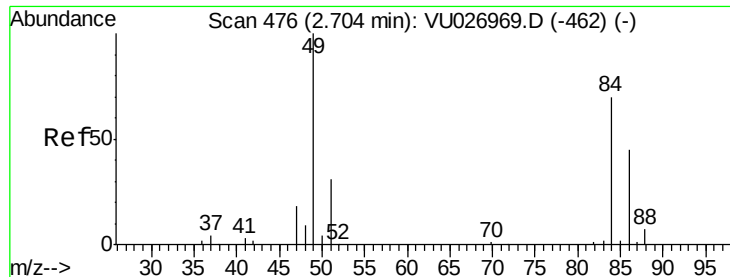
Tgt Ion: 43 Resp: 3378

Ion Ratio Lower Upper

43 100

74 15.9 16.6 25.0#

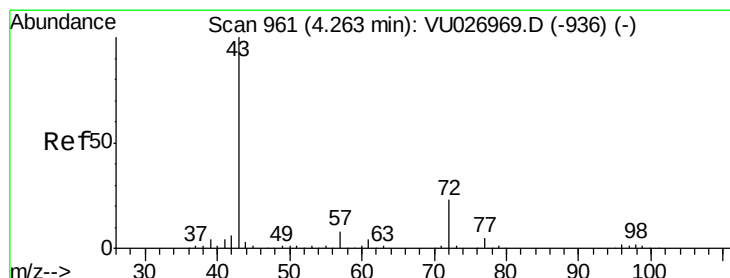
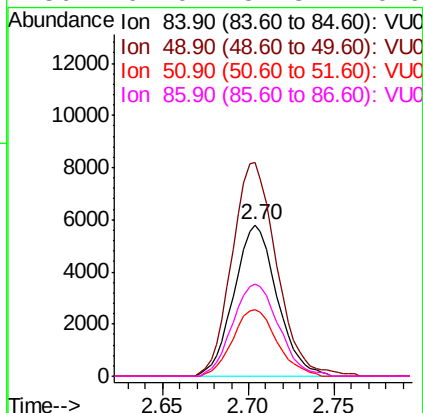
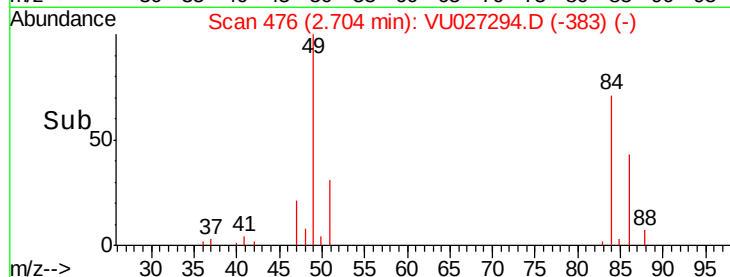
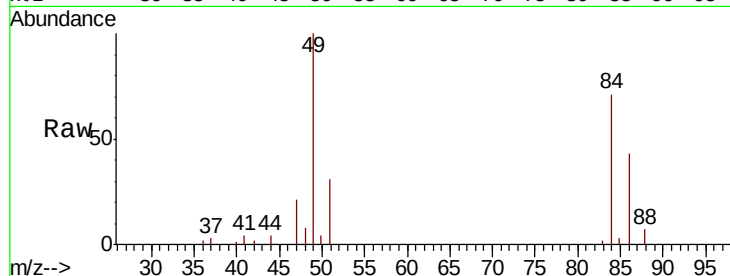




#20
Methylene Chloride
Concen: 4.984 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

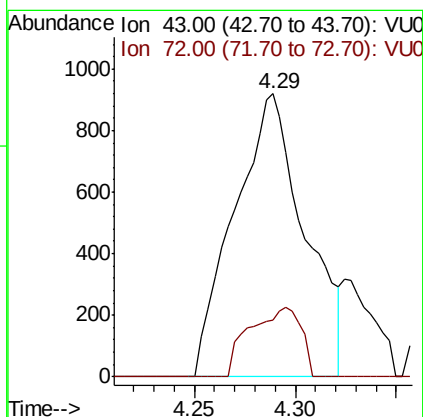
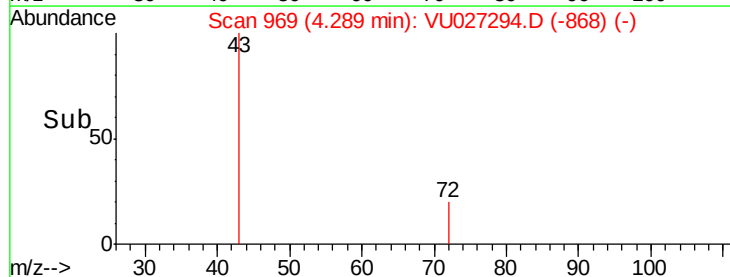
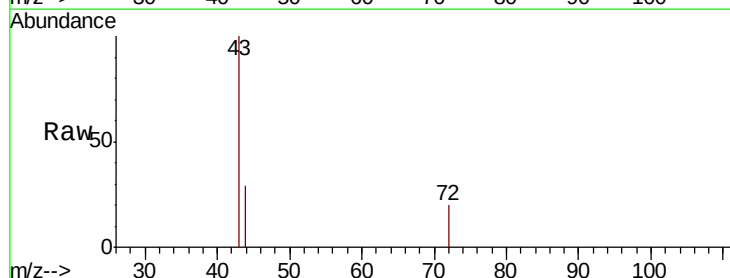
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#05

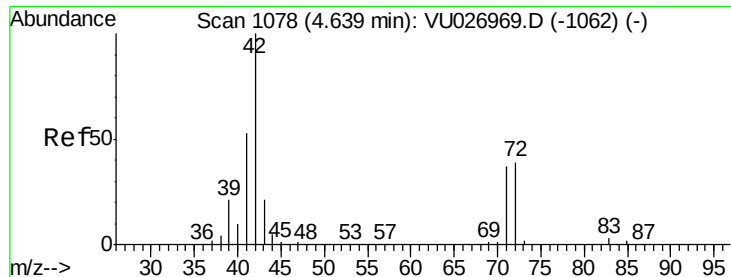
Tgt Ion: 84 Resp: 10113
Ion Ratio Lower Upper
84 100
49 141.3 114.9 172.3
51 44.3 35.8 53.8
86 61.0 51.3 76.9



#25
2-Butanone
Concen: 1.174 ug/l
RT: 4.29 min Scan# 969
Delta R.T. 0.03 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

Tgt Ion: 43 Resp: 2235
Ion Ratio Lower Upper
43 100
72 20.1 18.4 27.6

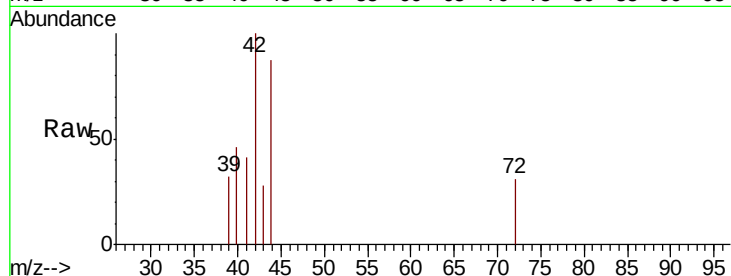




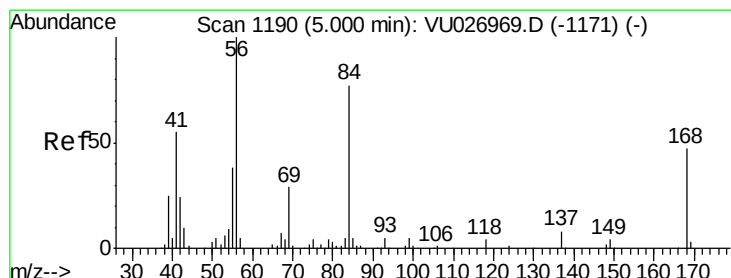
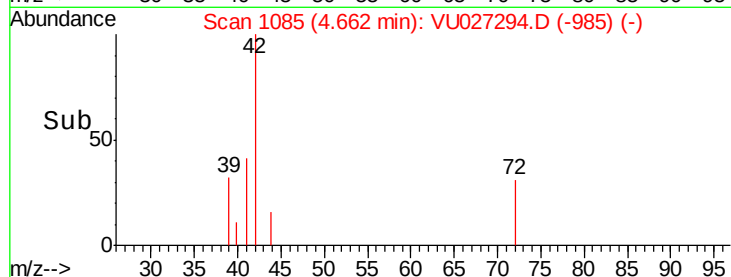
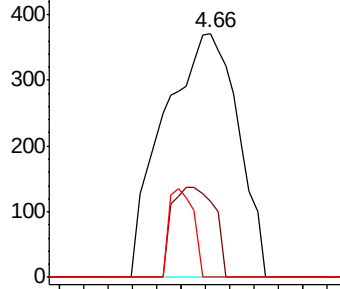
#29
Tetrahydrofuran
Concen: 0.681 ug/l
RT: 4.66 min Scan# 1085
Delta R.T. 0.02 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#05

Tgt Ion: 42 Resp: 784
Ion Ratio Lower Upper
42 100
72 20.9 31.7 47.5#
71 11.9 29.6 44.4#

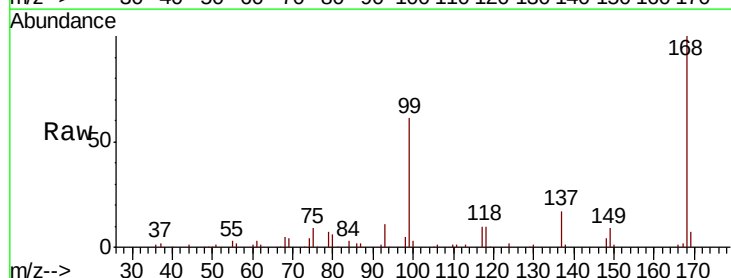


Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

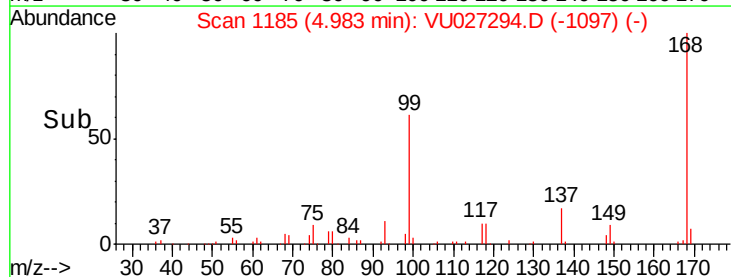
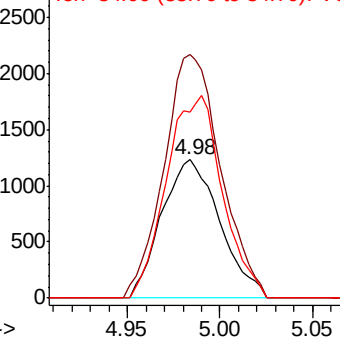


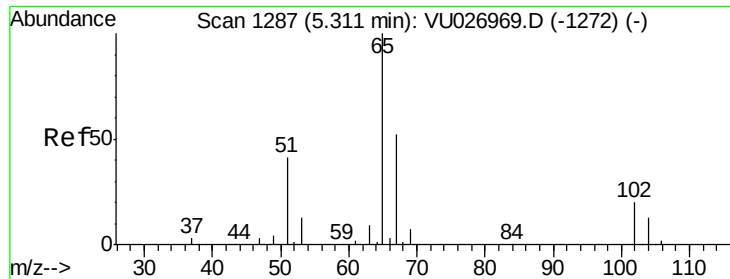
#31
Cyclohexane
Concen: 0.223 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.02 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

Tgt Ion: 56 Resp: 2686
Ion Ratio Lower Upper
56 100
69 175.8 23.0 34.4#
84 134.4 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

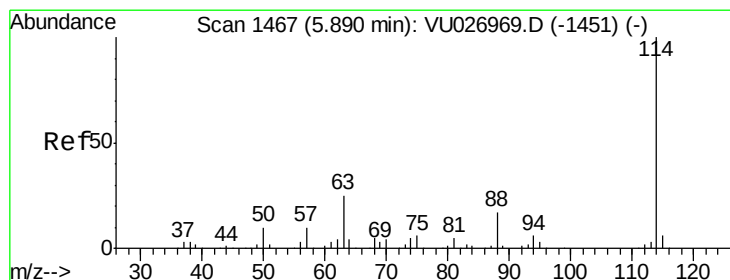
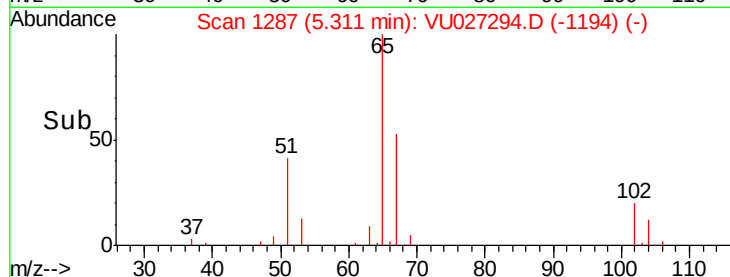
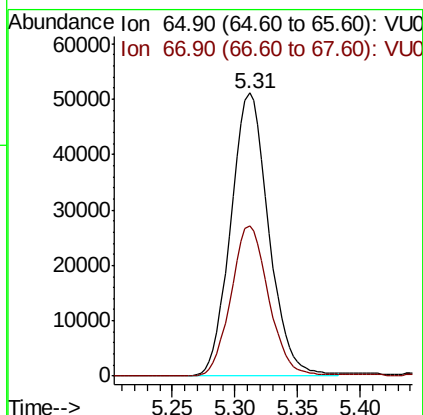
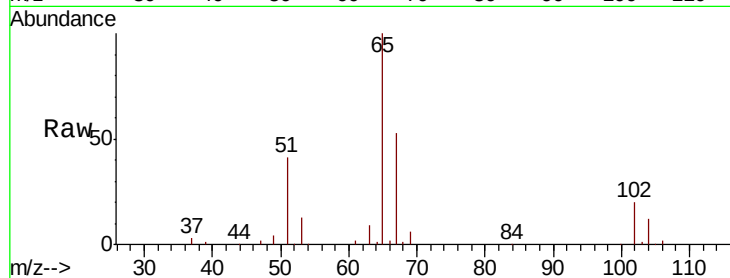




#33
 1,2-Dichloroethane-d4
 Concen: 47.460 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027294.D
 Acq: 29 Sep 2018 00:46

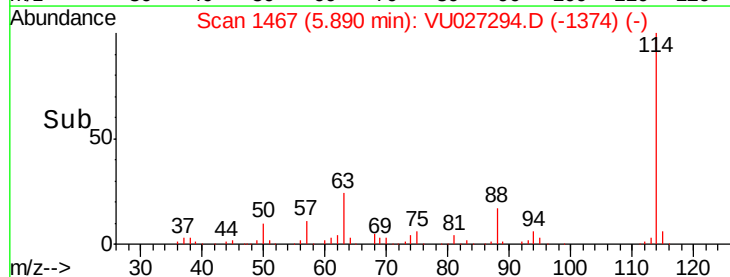
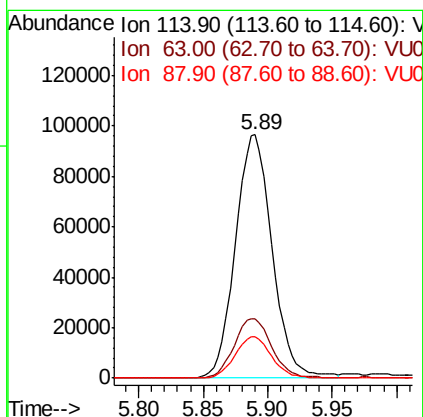
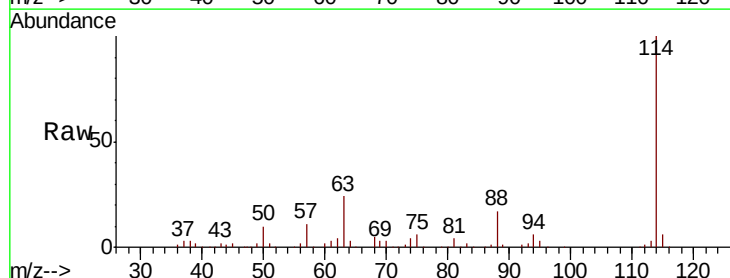
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#05

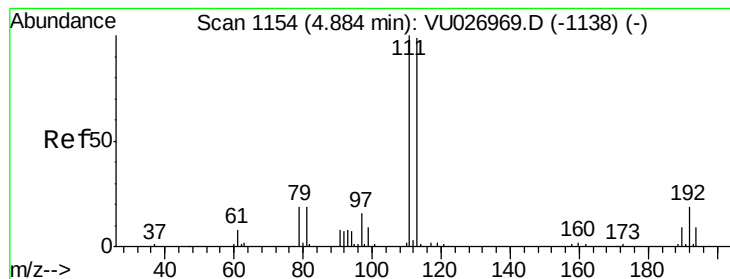
Tgt Ion: 65 Resp: 107532
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027294.D
 Acq: 29 Sep 2018 00:46

Tgt Ion: 114 Resp: 191620
 Ion Ratio Lower Upper
 114 100
 63 24.2 0.0 49.2
 88 17.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 46.251 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#05

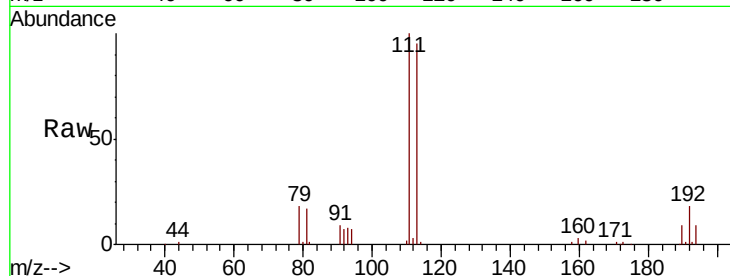
Tgt Ion:113 Resp: 76821

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

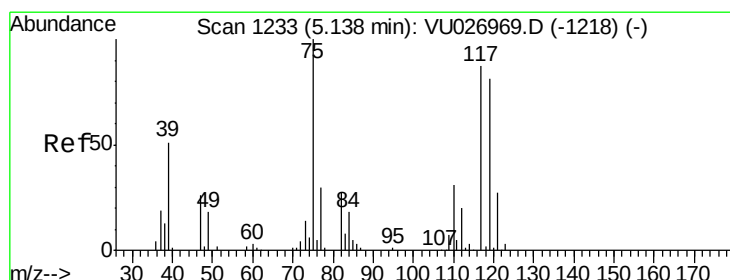
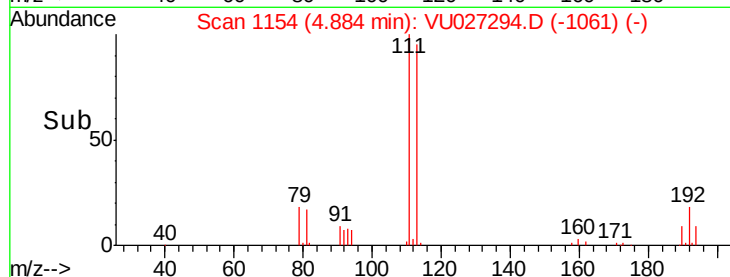
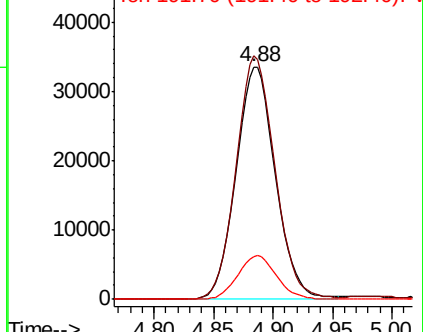
192 18.5 15.2 22.8



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: 3.964 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

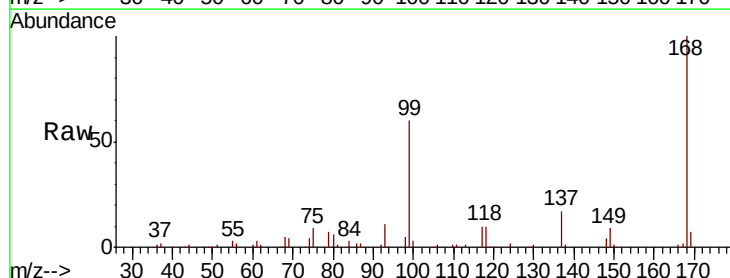
Tgt Ion: 75 Resp: 10138

Ion Ratio Lower Upper

75 100

110 8.0 16.1 48.2#

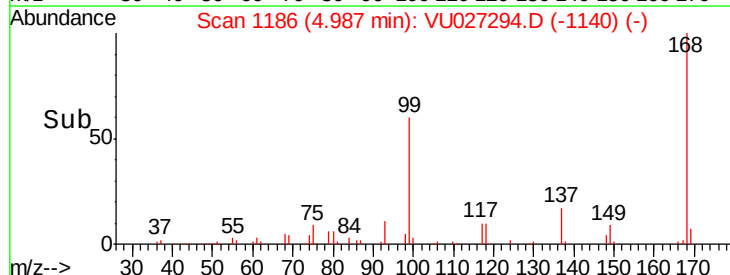
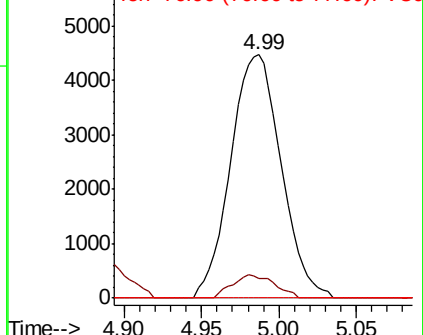
77 0.0 24.6 36.8#

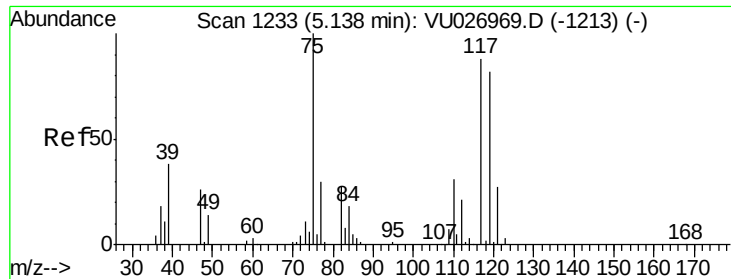


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

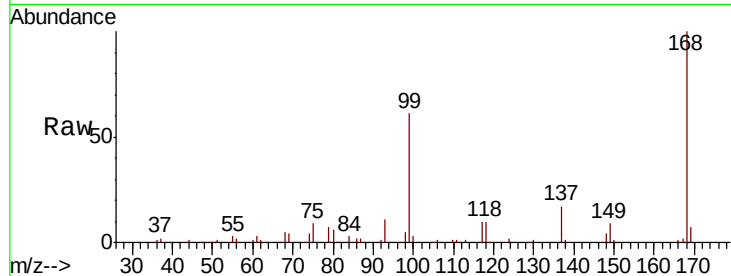




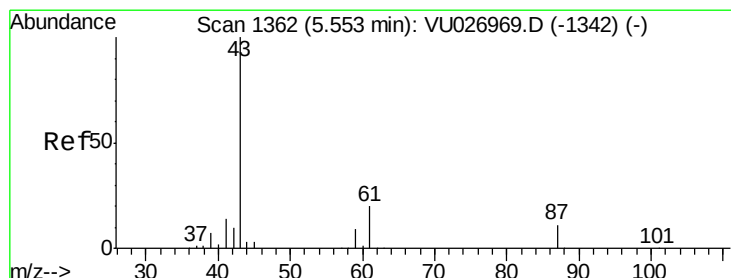
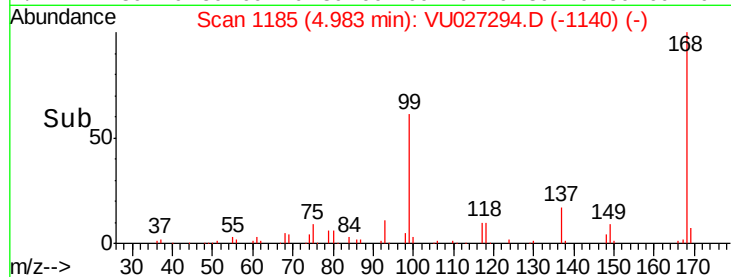
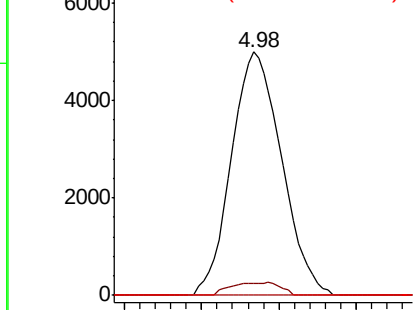
#38
 Carbon Tetrachloride
 Concen: 4.624 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027294.D
 Acq: 29 Sep 2018 00:46

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306ZHE#05

Tgt Ion: 117 Resp: 11254
 Ion Ratio Lower Upper
 117 100
 119 4.7 74.4 111.6#
 121 0.0 24.2 36.4#

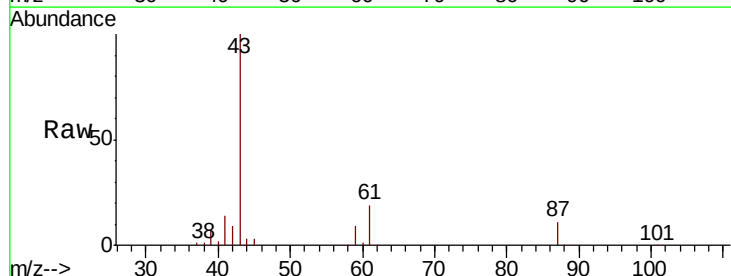


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

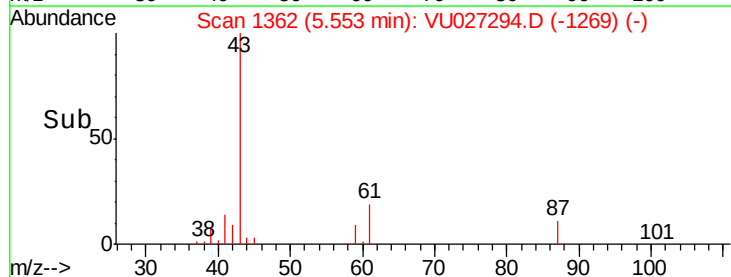
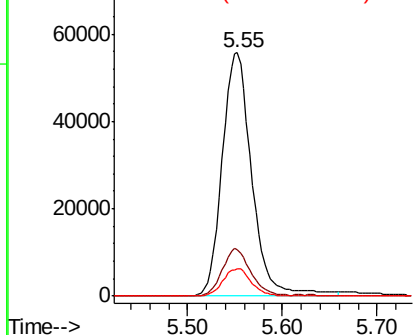


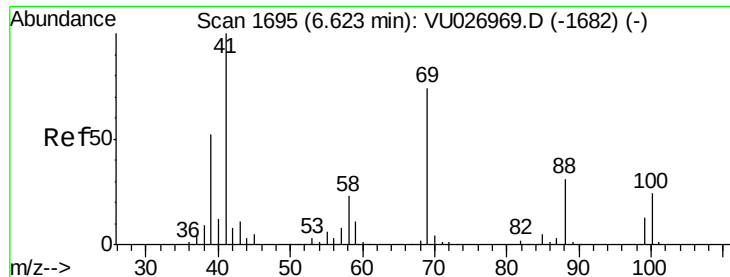
#43
 Isopropyl Acetate
 Concen: 24.082 ug/l
 RT: 5.55 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VU027294.D
 Acq: 29 Sep 2018 00:46

Tgt Ion: 43 Resp: 121588
 Ion Ratio Lower Upper
 43 100
 61 18.7 15.7 23.5
 87 10.7 9.0 13.4



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 87.00 (86.70 to 87.70): VU0

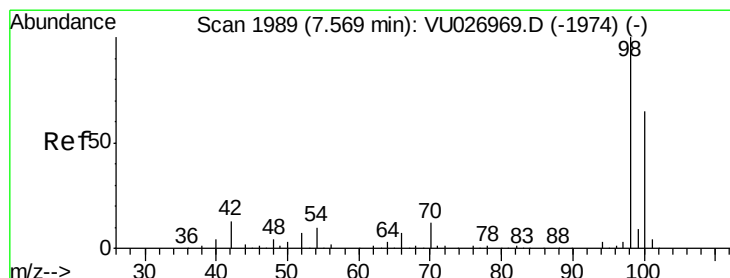
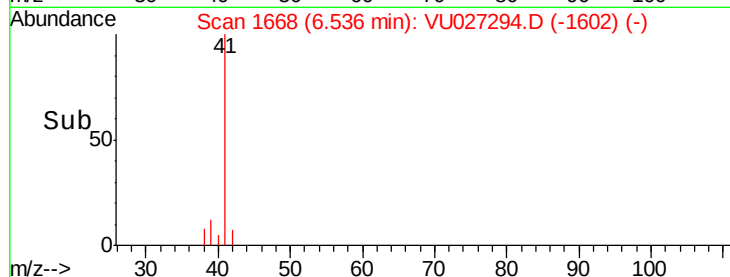
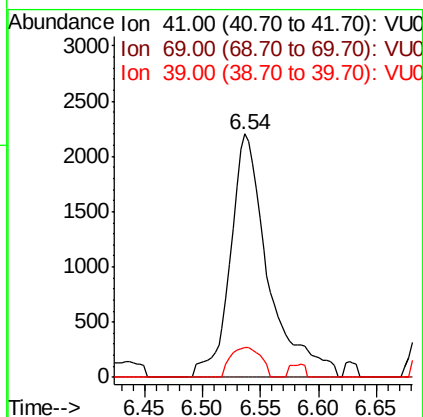
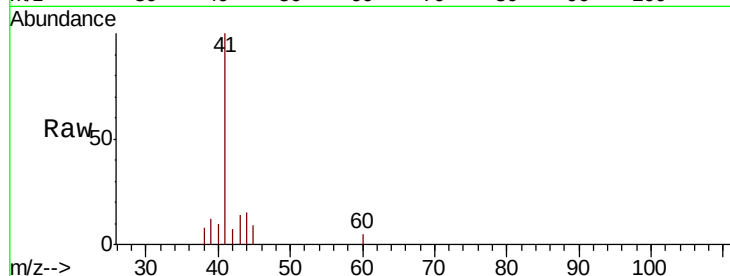




#48
Methyl methacrylate
Concen: 2.784 ug/l
RT: 6.54 min Scan# 1668
Delta R.T. -0.09 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

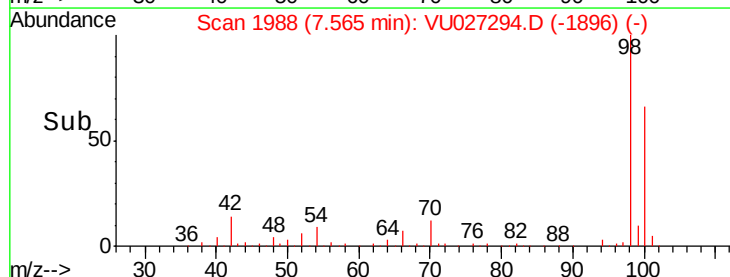
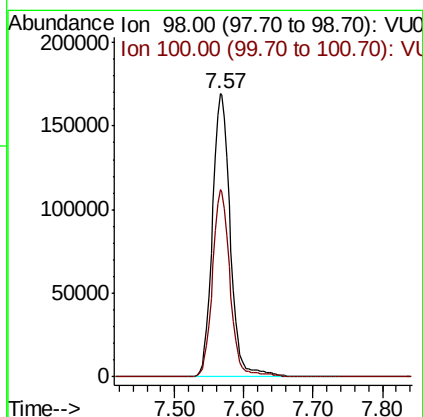
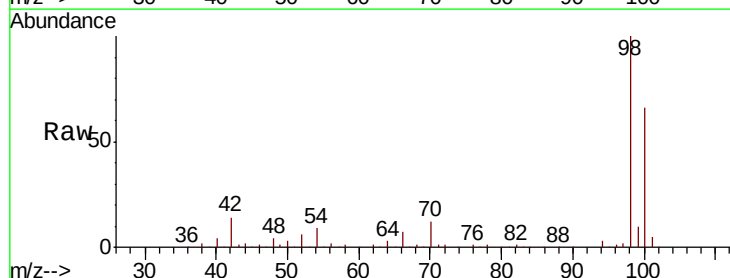
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#05

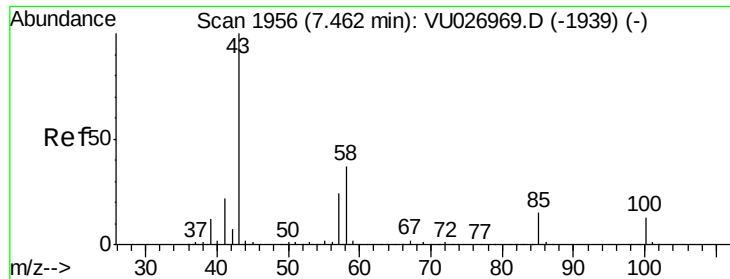
Tgt Ion: 41 Resp: 4971
Ion Ratio Lower Upper
41 100
69 0.0 60.6 90.8#
39 9.8 42.8 64.2#



#50
Toluene-d8
Concen: 47.738 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

Tgt Ion: 98 Resp: 302185
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 0.280 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

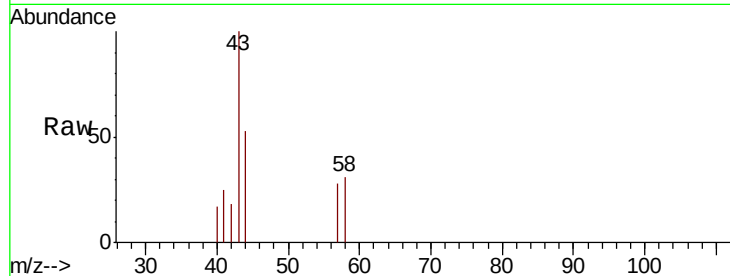
PB113306ZHE#05

Tgt Ion: 43 Resp: 950

Ion Ratio Lower Upper

43 100

58 32.4 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

1200

1000

800

600

400

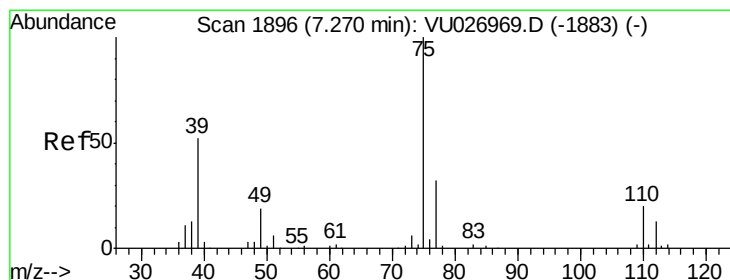
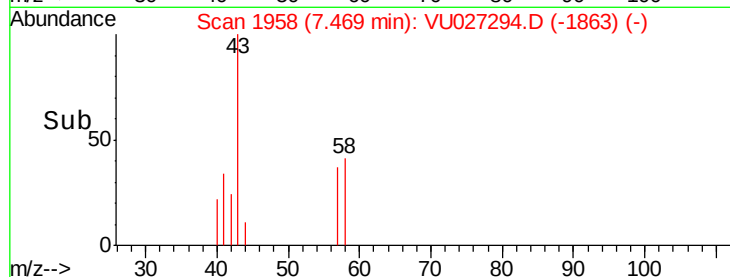
200

0

7.45

7.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.217 ug/l

RT: 7.42 min Scan# 1944

Delta R.T. 0.15 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

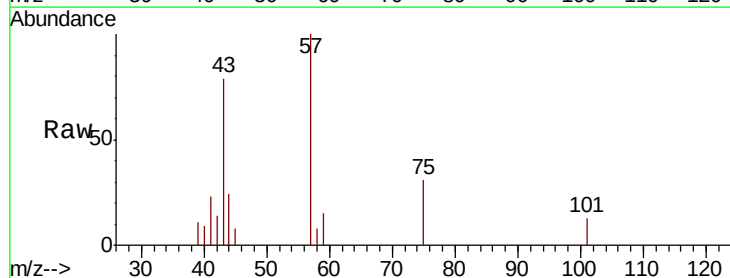
Tgt Ion: 75 Resp: 693

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 34.6 41.6 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU026969.D (-1883) (-)

Ion 76.90 (76.60 to 77.60): VU026969.D (-1883) (-)

Ion 39.00 (38.70 to 39.70): VU026969.D (-1883) (-)

500

400

300

200

100

0

7.38

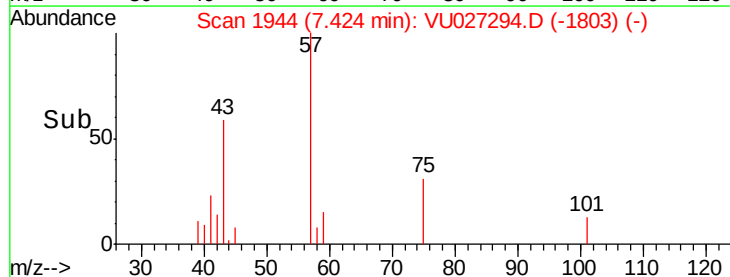
7.40

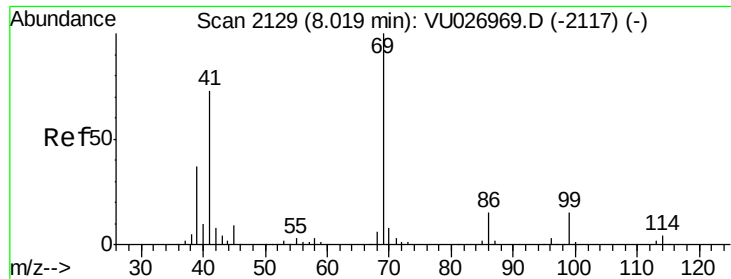
7.42

7.44

7.46

Time-->

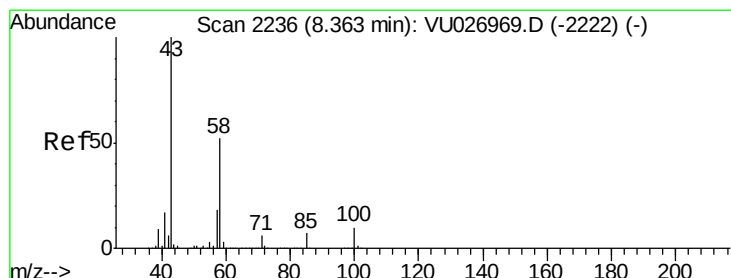
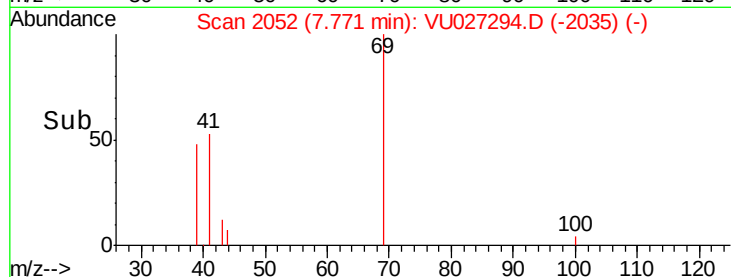
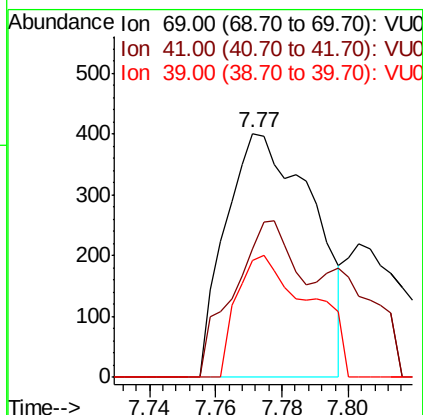
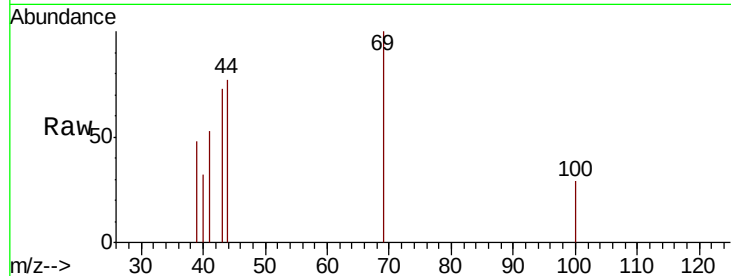




#56
Ethyl methacrylate
Concen: 2.409 ug/l
RT: 7.77 min Scan# 2052
Delta R.T. -0.25 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

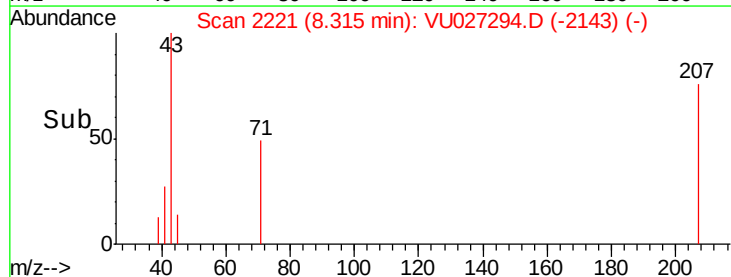
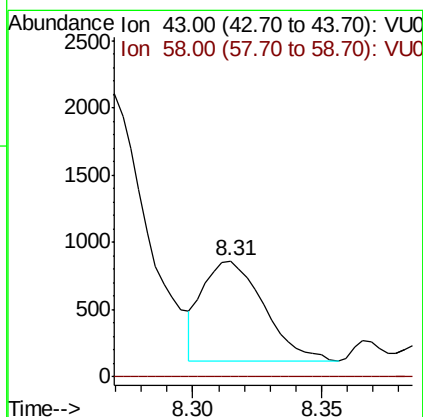
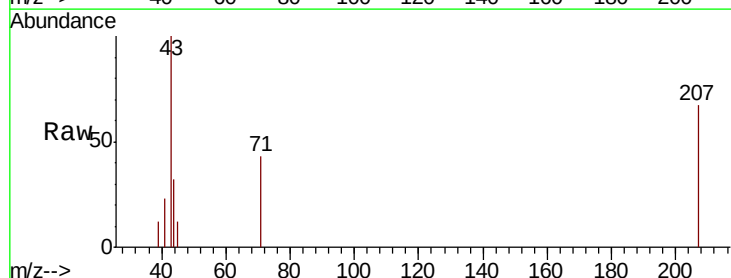
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#05

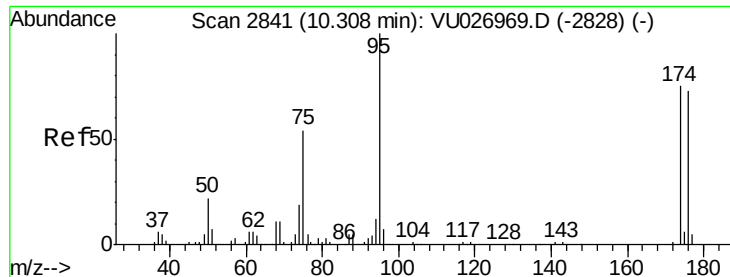
Tgt Ion: 69 Resp: 739
Ion Ratio Lower Upper
69 100
41 46.3 59.0 88.4#
39 41.9 30.2 45.4



#59
2-Hexanone
Concen: 0.462 ug/l
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

Tgt Ion: 43 Resp: 1228
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.2#





#62

4-Bromofluorobenzene

Concen: 46.164 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#05

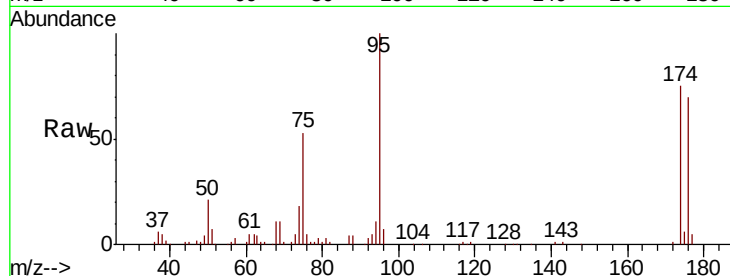
Tgt Ion: 95 Resp: 100270

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

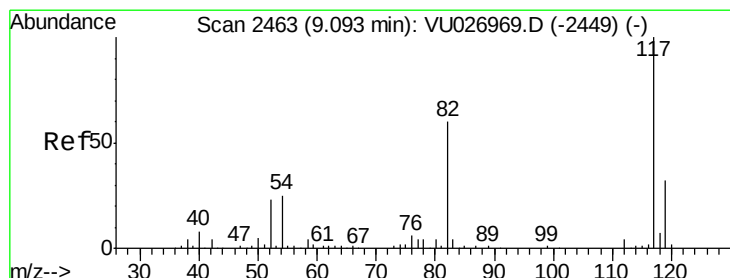
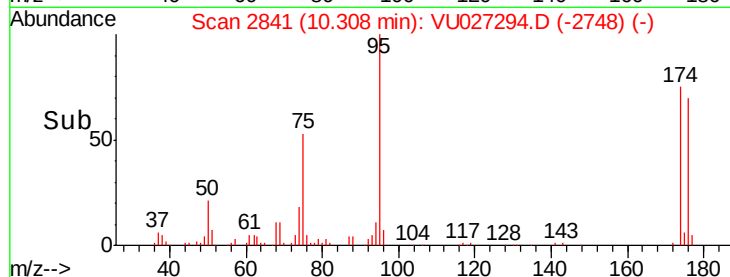
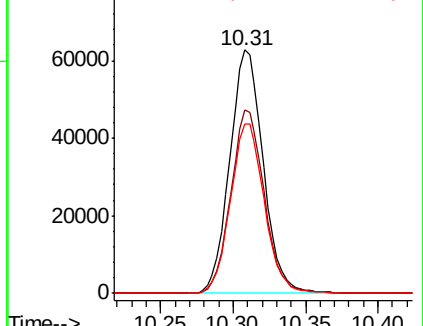
176 70.9 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

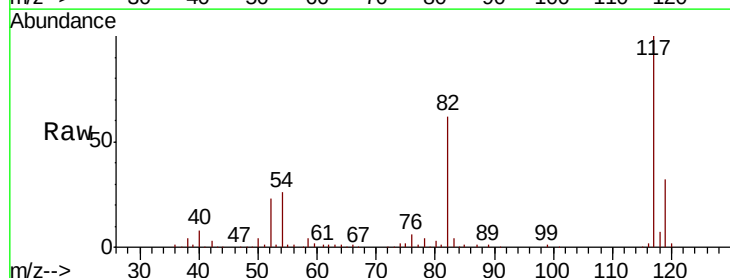
Tgt Ion: 117 Resp: 182605

Ion Ratio Lower Upper

117 100

82 62.0 48.0 72.0

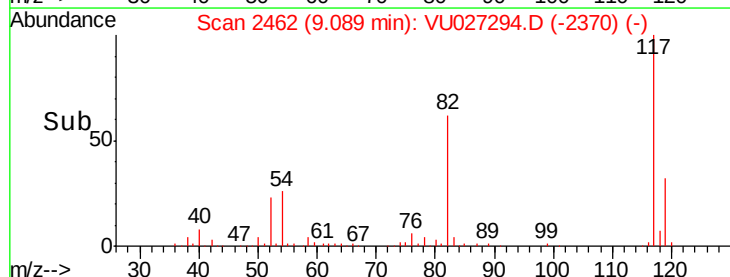
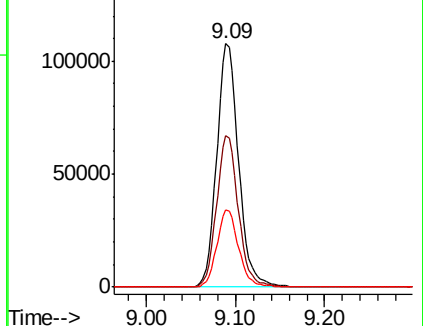
119 31.6 25.8 38.8

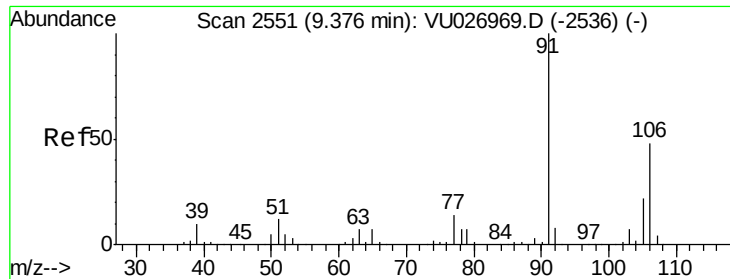


Abundance Ion 116.90 (116.60 to 117.60): VU026969.D (-2449) (-)

Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)

Ion 118.90 (118.60 to 119.60): VU026969.D (-2449) (-)

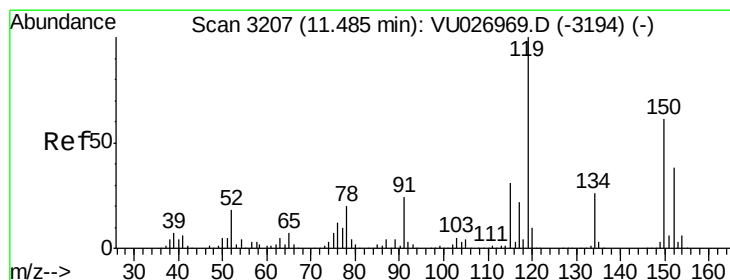
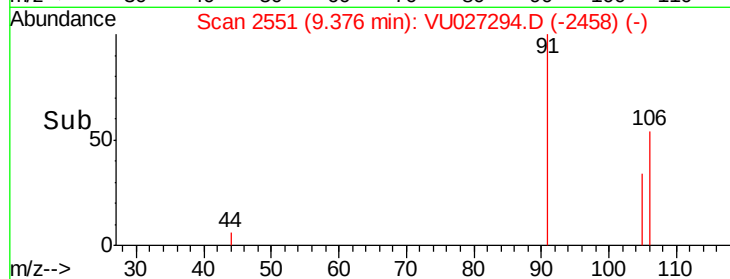
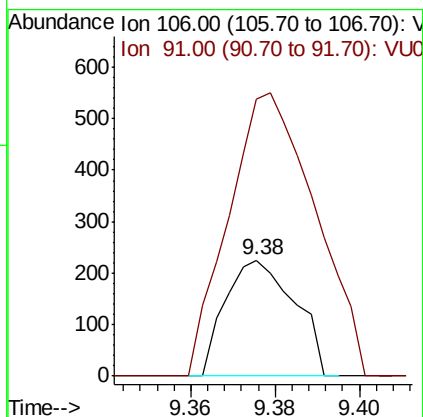
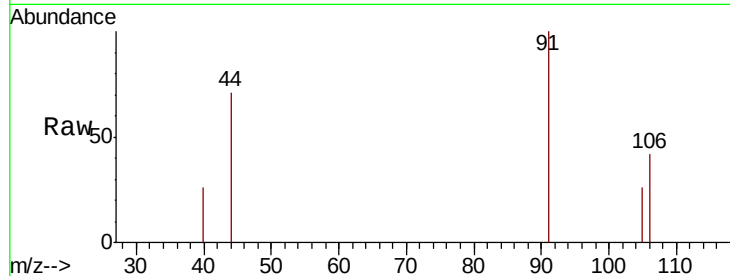




#68
m/p-Xylenes
Concen: 1.579 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

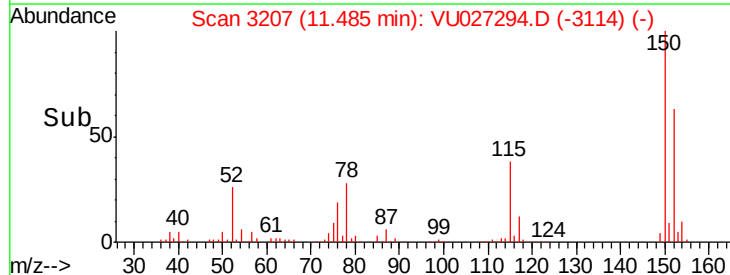
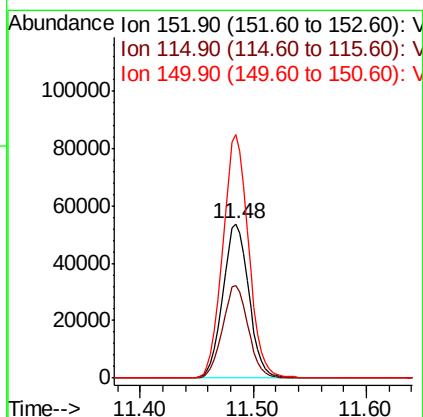
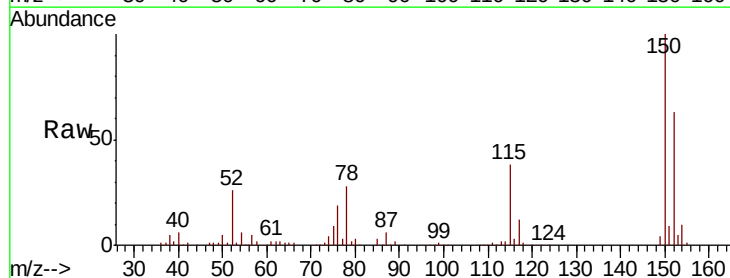
Instrument :
MSVOA_U
ClientSampleId :
PB113306ZHE#05

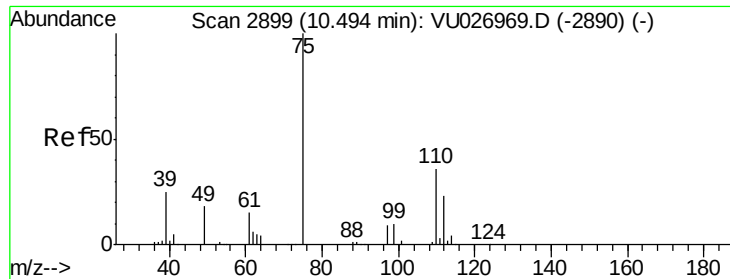
Tgt Ion:106 Resp: 257
Ion Ratio Lower Upper
106 100
91 305.1 166.5 249.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. 0.00 min
Lab File: VU027294.D
Acq: 29 Sep 2018 00:46

Tgt Ion:152 Resp: 86047
Ion Ratio Lower Upper
152 100
115 59.3 44.9 134.5
150 155.7 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 20.322 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

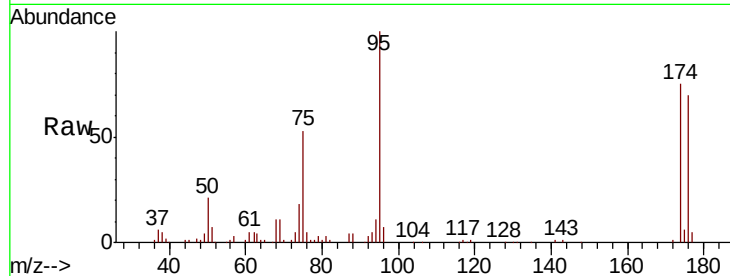
PB113306ZHE#05

Tgt Ion: 75 Resp: 53124

Ion Ratio Lower Upper

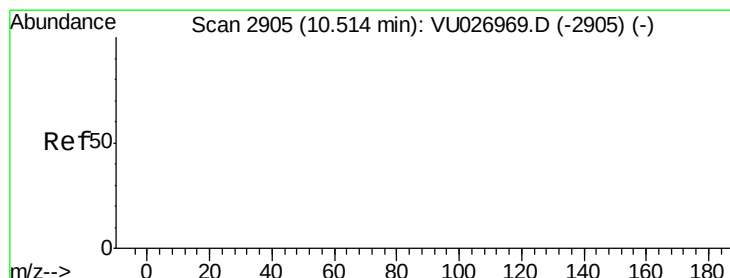
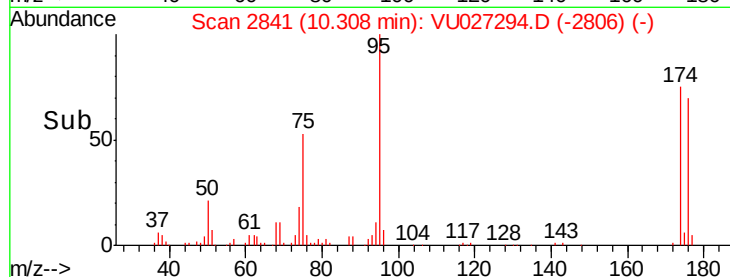
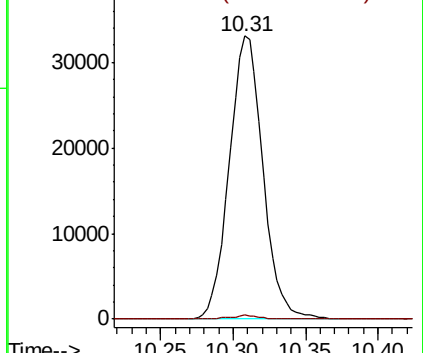
75 100

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: 65.035 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

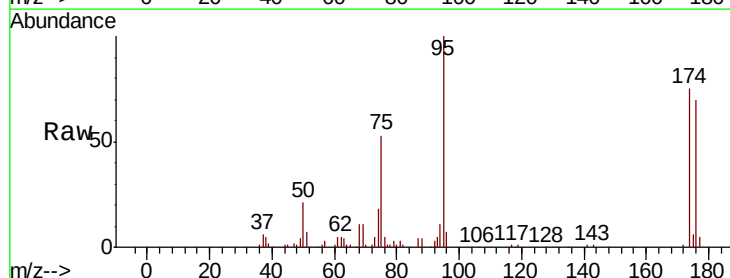
Tgt Ion: 75 Resp: 53124

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

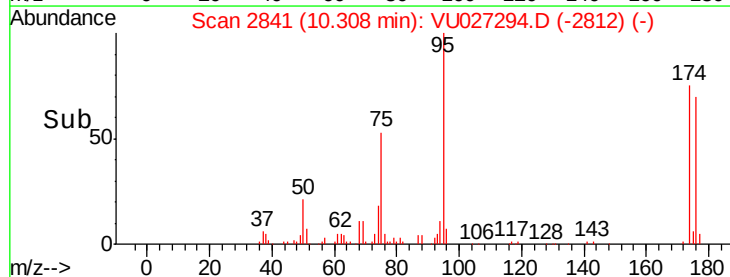
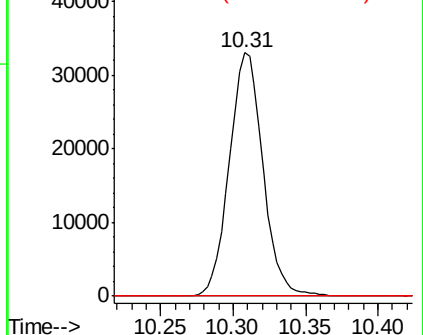
89 0.0 0.0 0.0

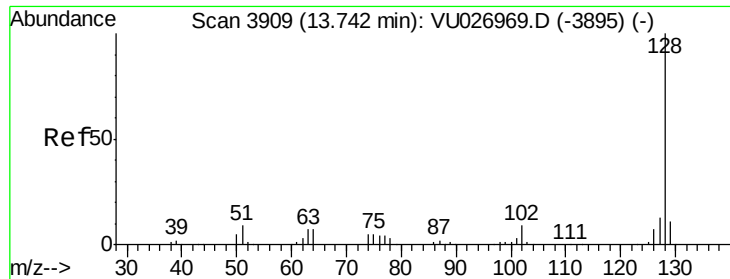


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 1.704 ug/l

RT: 13.76 min Scan# 3916

Delta R.T. 0.02 min

Lab File: VU027294.D

Acq: 29 Sep 2018 00:46

Instrument :

MSVOA_U

ClientSampleId :

PB113306ZHE#05

Tgt Ion:128 Resp: 108

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#

