

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112818\
 Data File : VU028374.D
 Acq On : 28 Nov 2018 18:32
 Operator : MD/SY
 Sample : PB115109ZHE#03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#03

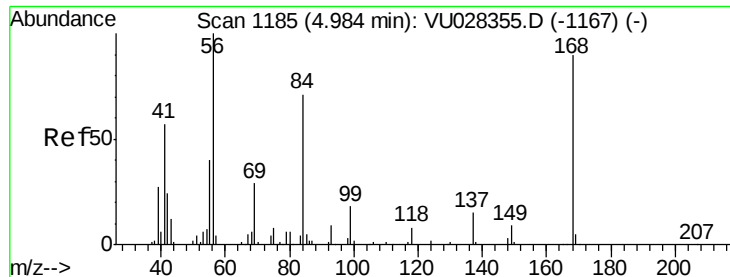
Quant Time: Nov 29 06:19:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	247765	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	473676	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	420941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	166064	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	217331	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
35) Dibromofluoromethane	4.88	113	154611	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
50) Toluene-d8	7.57	98	616301	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	10.30	95	207284	45.65	ug/l	0.00
Spiked Amount			Recovery	=	91.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	4321	0.671	ug/l	98
11) Tert butyl alcohol	2.84	59	900	0.957	ug/l #	72
16) Acetone	2.32	43	23308	9.202	ug/l	97
18) Methyl Acetate	2.62	43	5714	0.810	ug/l	100
20) Methylene Chloride	2.70	84	6831	1.841	ug/l #	86
25) 2-Butanone	4.29	43	2927	0.806	ug/l	94
29) Tetrahydrofuran	4.65	42	1828	0.776	ug/l #	87
31) Cyclohexane	4.98	56	6485	0.560	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	22816	4.402	ug/l #	50
37) Ethyl Acetate	4.29	43	2927	0.414	ug/l #	71
38) Carbon Tetrachloride	4.98	117	25199	5.920	ug/l #	16
43) Isopropyl Acetate	5.55	43	33323	2.977	ug/l #	96
45) 1,2-Dichloropropane	6.70	63	2092	0.465	ug/l #	43
48) Methyl methacrylate	6.70	41	179194	30.732	ug/l #	47
49) 1,4-Dioxane	6.70	88	180	1.932	ug/l #	1
51) 4-Methyl-2-Pentanone	7.56	43	14613	2.044	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	61611	9.364	ug/l #	58
57) 1,3-Dichloropropane	8.41	76	13335	1.976	ug/l #	43
59) 2-Hexanone	8.41	43	215675	38.946	ug/l #	53
74) N-amyl acetate	9.76	43	22706	2.806	ug/l #	55
76) 1,2,3-Trichloropropane	10.30	75	107973	23.446	ug/l #	34
80) 1,3,5-Trimethylbenzene	10.77	105	9181	0.844	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.30	75	107973	62.238	ug/l #	100
95) Naphthalene	13.76	128	513	2.870	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028374.D

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MSVOA_U

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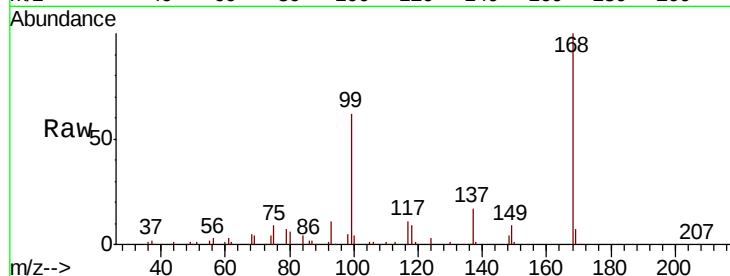
PB115109ZHE#03

Tot Ion:168 Resp: 247765

Ion Ratio Lower Upper

168 100

99 61.8 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028355.D (-1167) (-)

4.98

120000

100000

80000

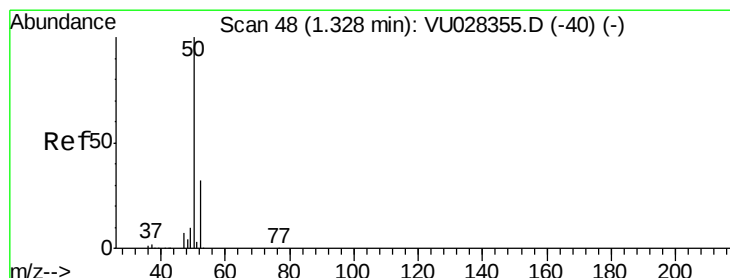
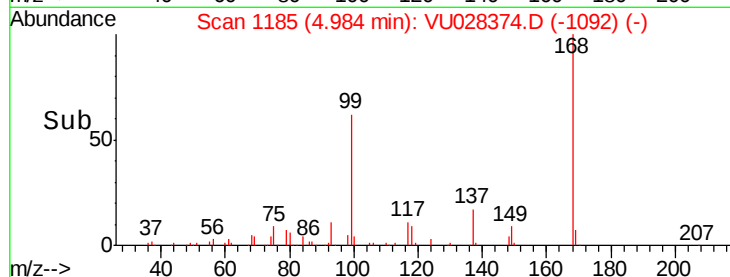
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.671 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028374.D

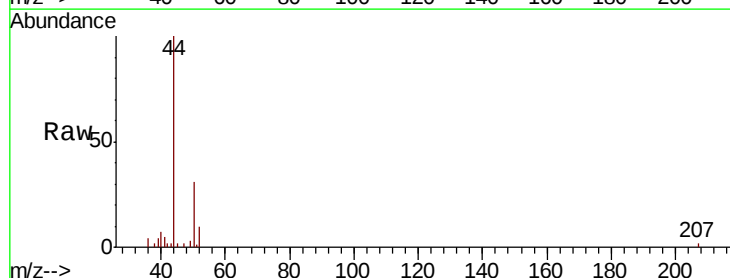
Acq: 28 Nov 2018 18:32

Tgt Ion: 50 Resp: 4321

Ion Ratio Lower Upper

50 100

52 33.0 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VU028355.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028355.D (-40) (-)

1.33

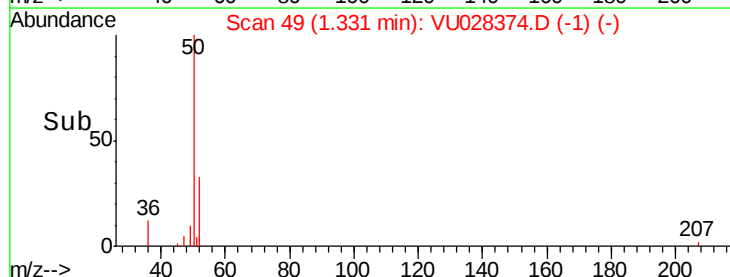
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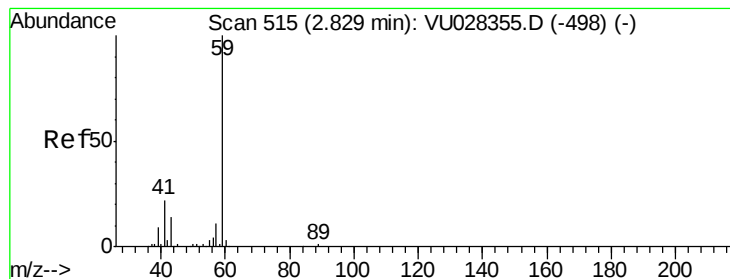
2000

1000

0

Time-->



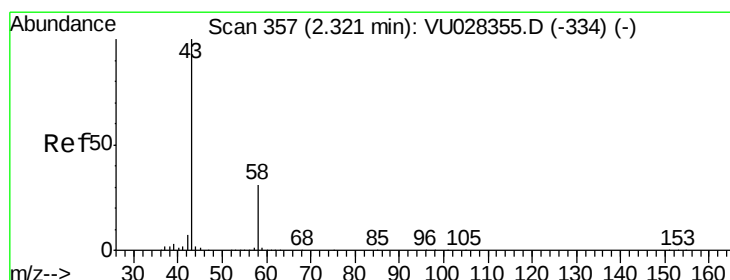
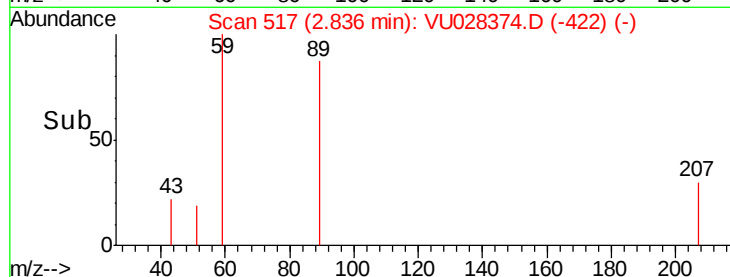
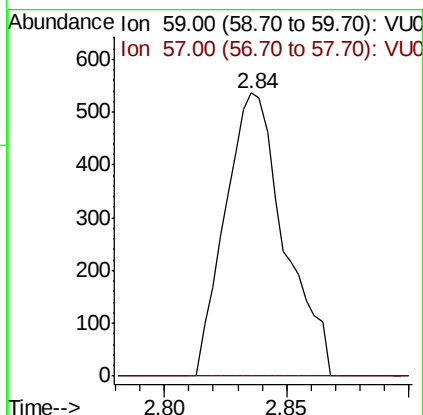
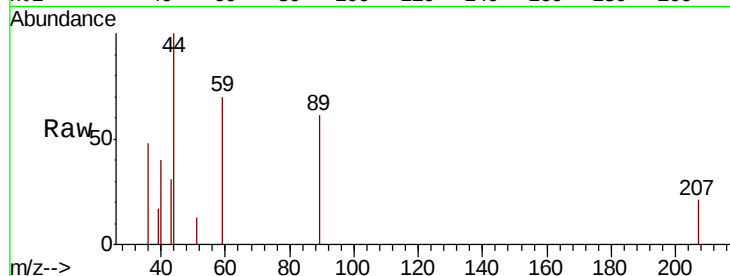


#11

Tert butyl alcohol
 Concen: 0.957 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#03

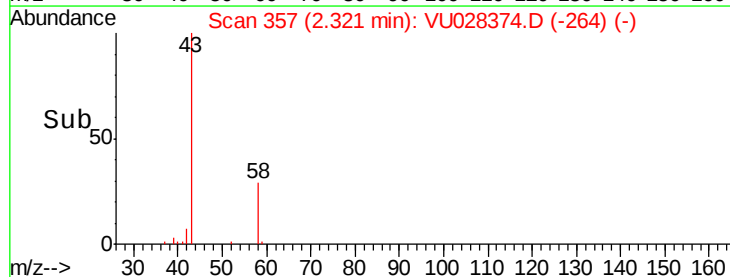
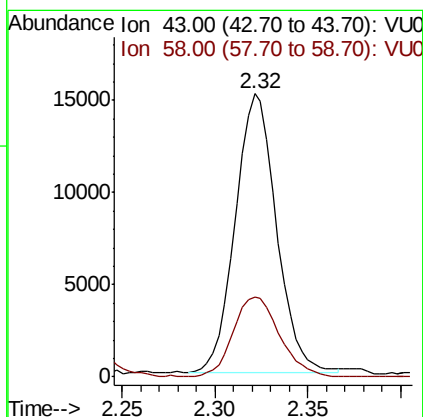
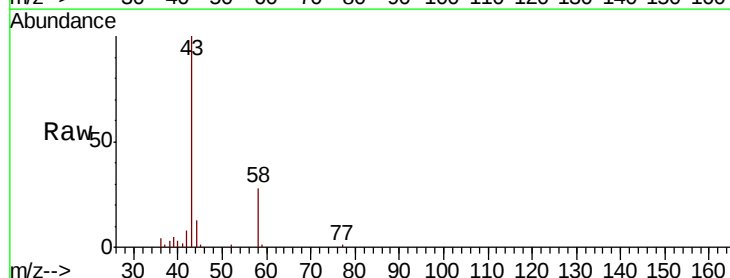
Tot Ion: 59 Resp: 900
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

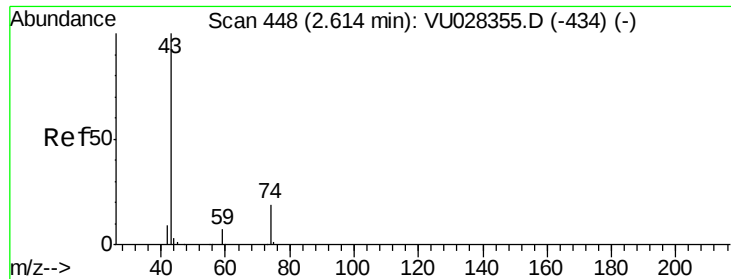


#16

Acetone
 Concen: 9.202 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Tgt Ion: 43 Resp: 23308
 Ion Ratio Lower Upper
 43 100
 58 28.8 24.4 36.6

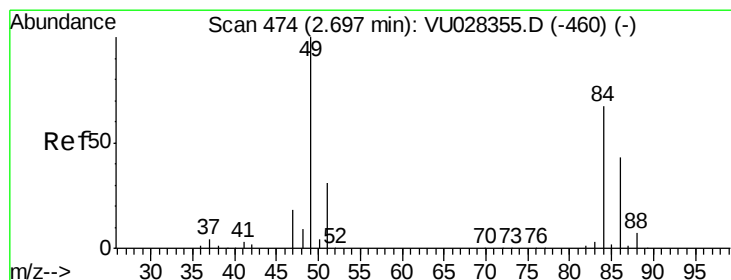
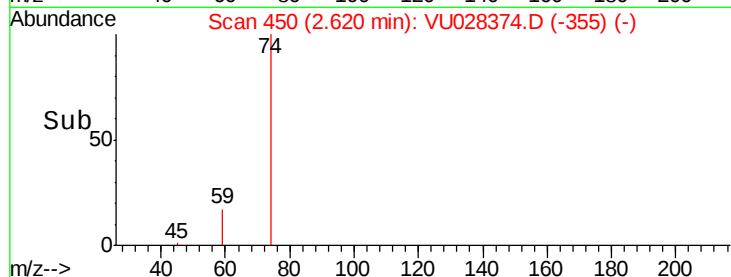
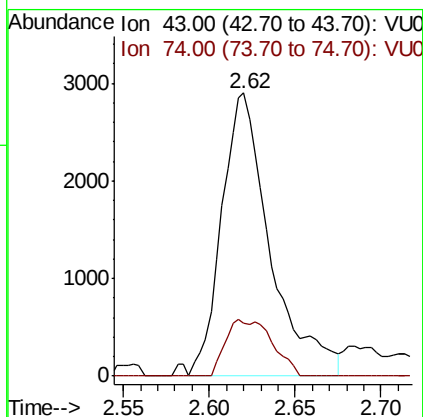
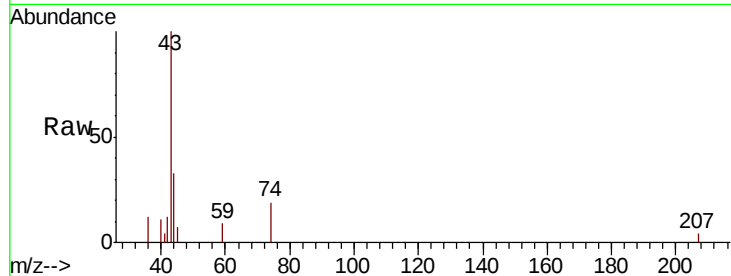




#18
Methvl Acetate
Concen: 0.810 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

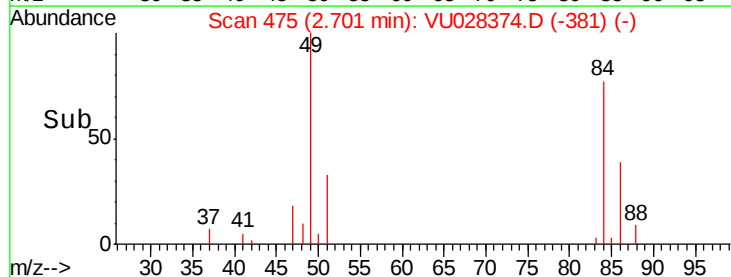
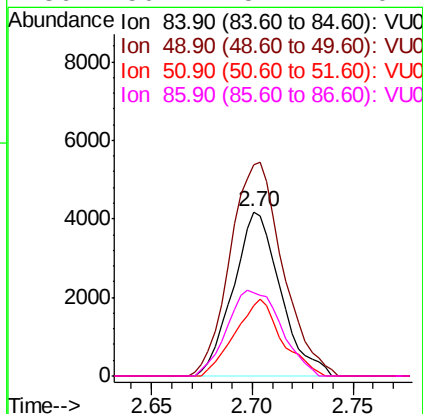
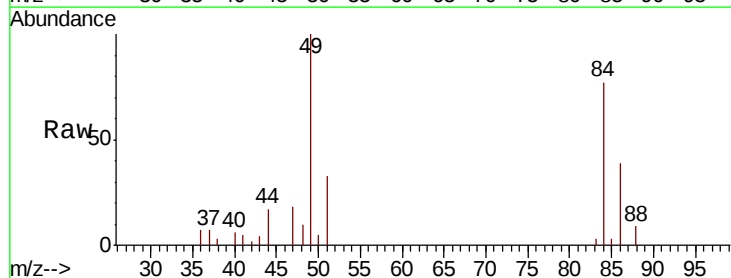
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#03

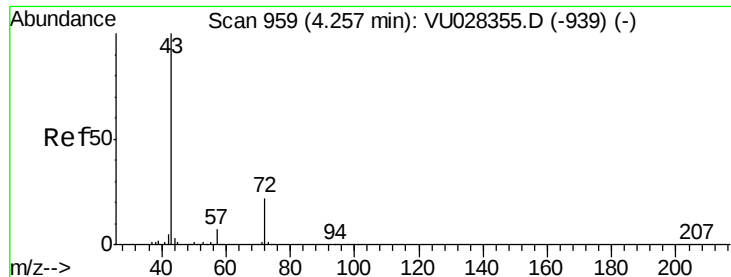
Tot Ion: 43 Resp: 5714
Ion Ratio Lower Upper
43 100
74 19.0 15.3 22.9



#20
Methylene Chloride
Concen: 1.841 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

Tgt Ion: 84 Resp: 6831
Ion Ratio Lower Upper
84 100
49 129.2 120.0 180.0
51 43.0 36.9 55.3
86 50.7 51.1 76.7#





#25

2-Butanone

Concen: 0.806 ug/l

RT: 4.29 min Scan# 970

Delta R.T. 0.04 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

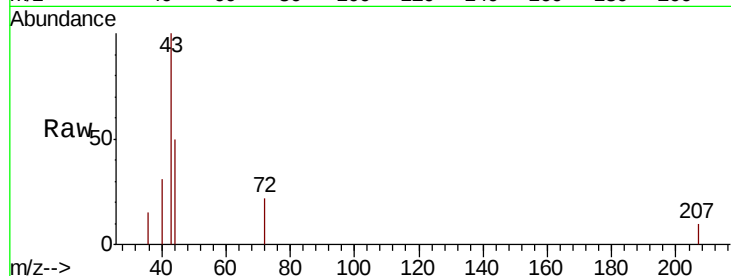
PB115109ZHE#03

Tot Ion: 43 Resp: 2927

Ion Ratio Lower Upper

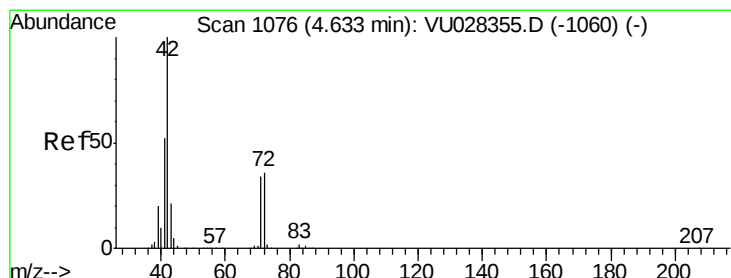
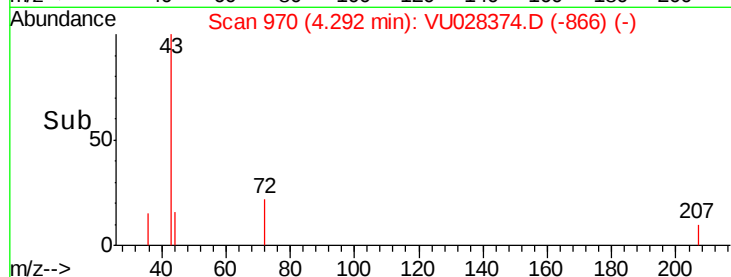
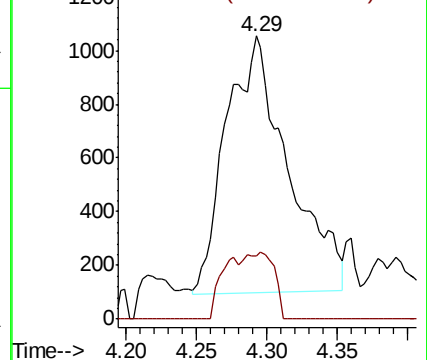
43 100

72 24.9 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.776 ug/l

RT: 4.65 min Scan# 1082

Delta R.T. 0.02 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

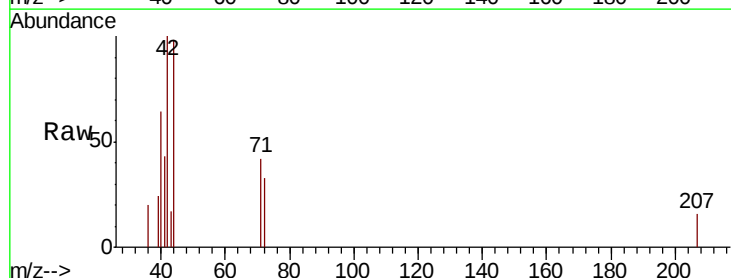
Tgt Ion: 42 Resp: 1828

Ion Ratio Lower Upper

42 100

72 30.5 29.5 44.3

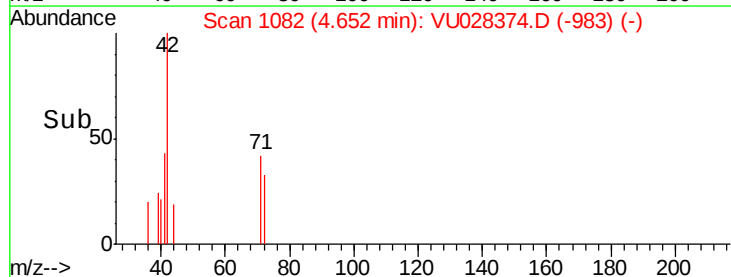
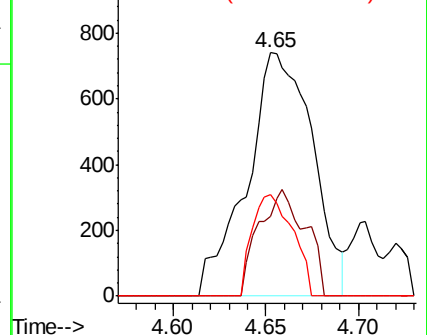
71 25.7 27.7 41.5#

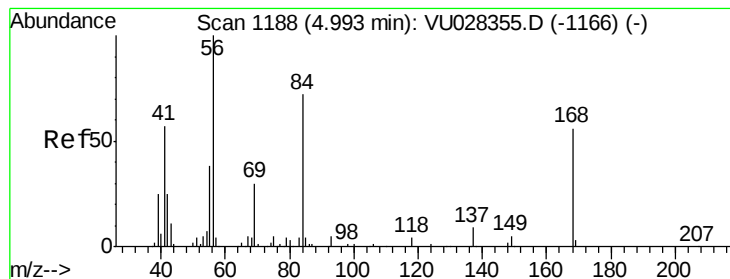


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#31

Cyclohexane

Concen: 0.560 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

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ClientSampleId :

PB115109ZHE#03

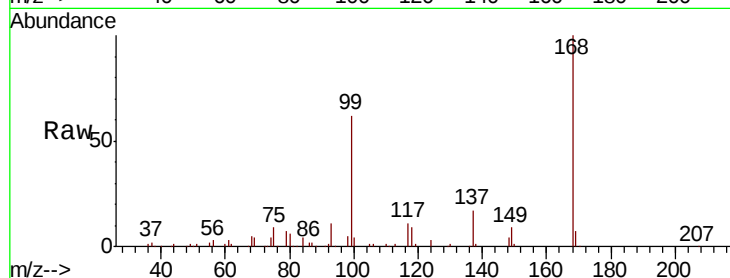
Tot Ion: 56 Resp: 6485

Ion Ratio Lower Upper

56 100

69 138.1 23.7 35.5#

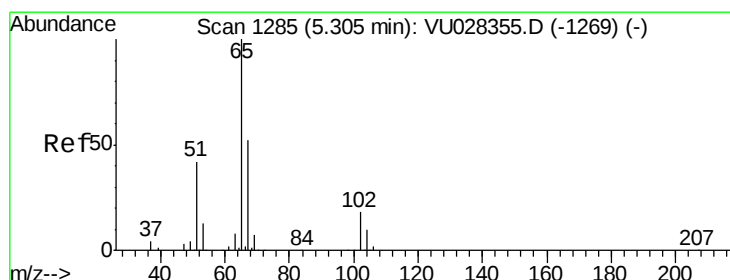
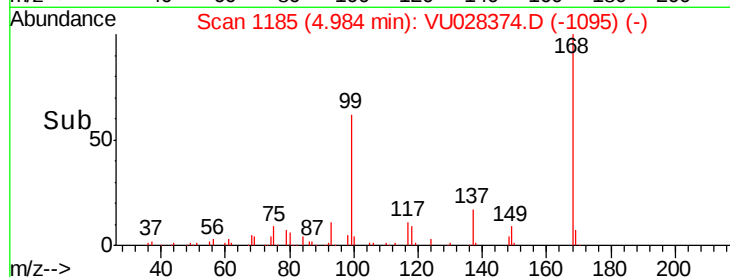
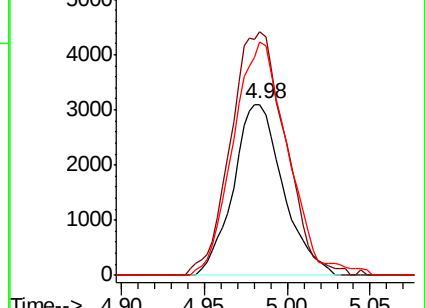
84 136.1 57.3 85.9#



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: 52.486 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU028374.D

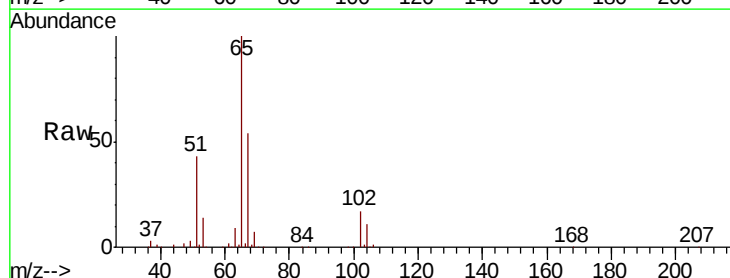
Acq: 28 Nov 2018 18:32

Tgt Ion: 65 Resp: 217331

Ion Ratio Lower Upper

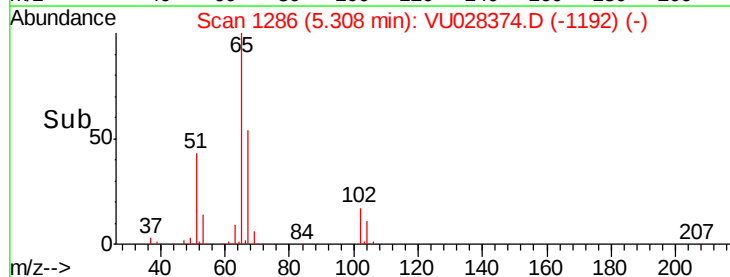
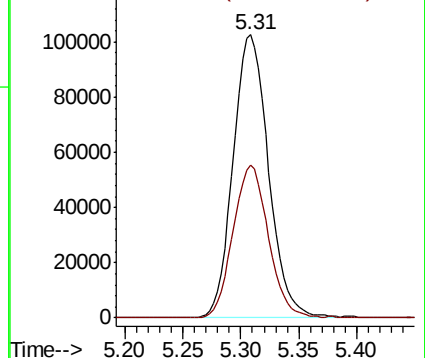
65 100

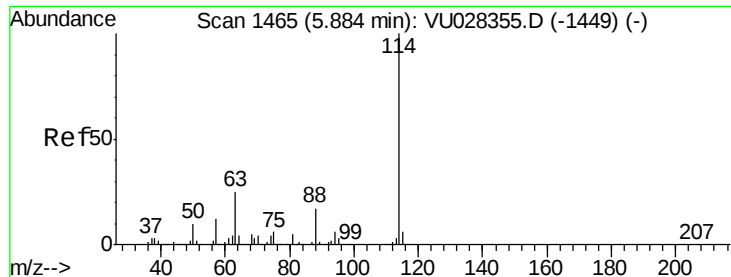
67 53.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

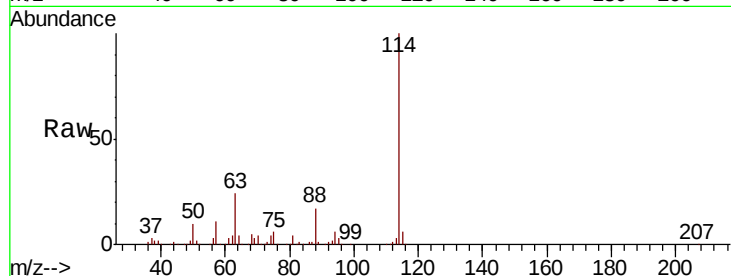




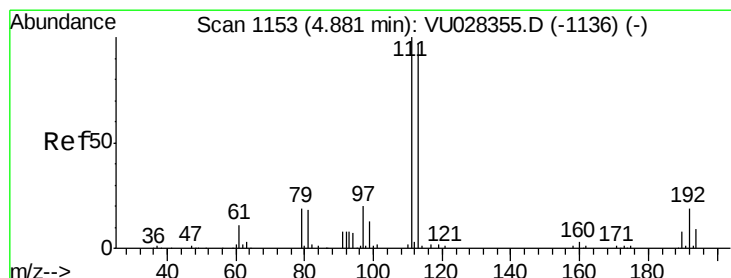
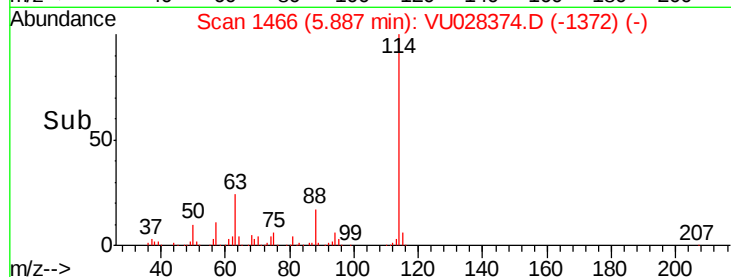
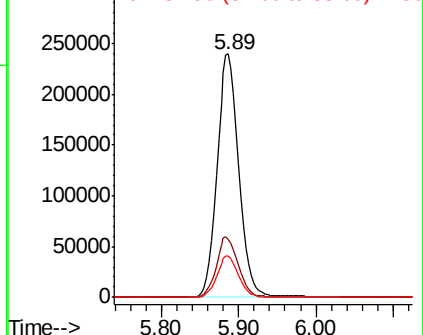
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Instrument :
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 PB115109ZHE#03

Tot Ion:114 Resp: 473676
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 50.0
 88 16.8 0.0 34.4

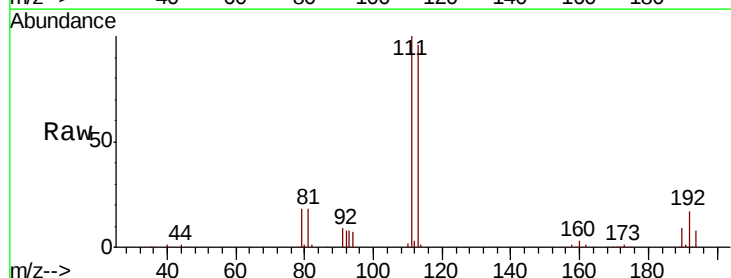


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

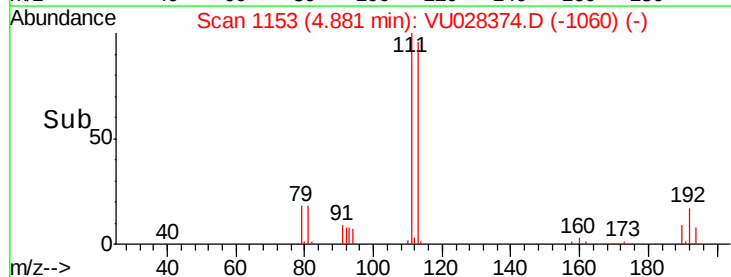
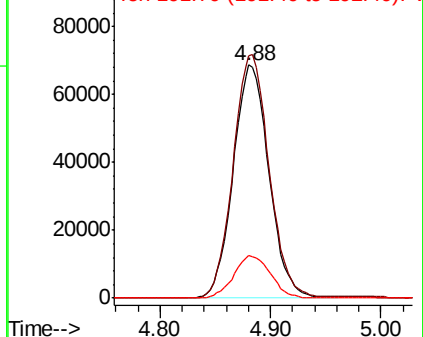


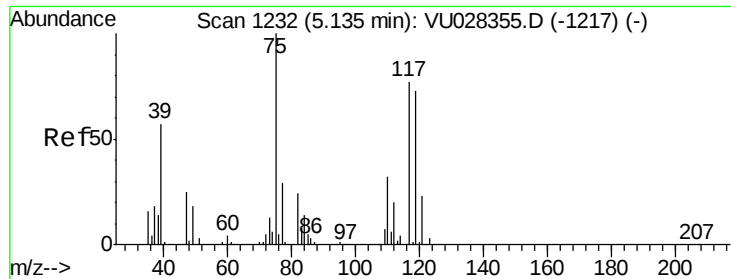
#35
 Dibromofluoromethane
 Concen: 49.087 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Tgt Ion:113 Resp: 154611
 Ion Ratio Lower Upper
 113 100
 111 104.9 82.9 124.3
 192 18.6 15.4 23.0



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

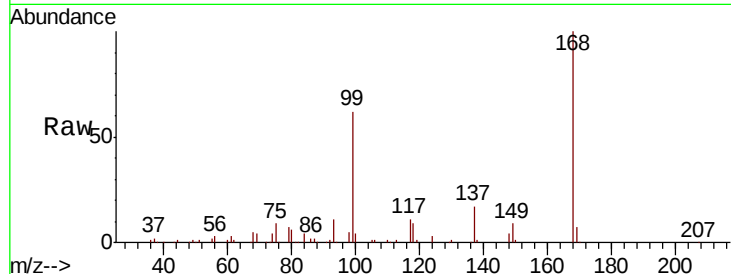




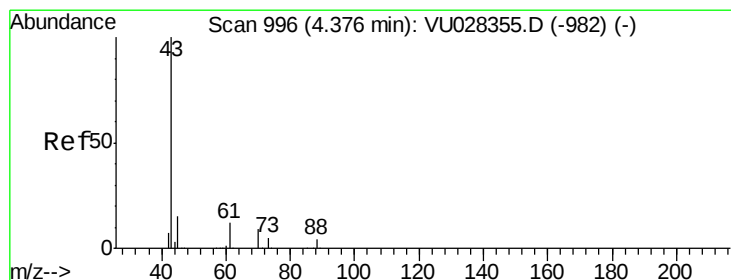
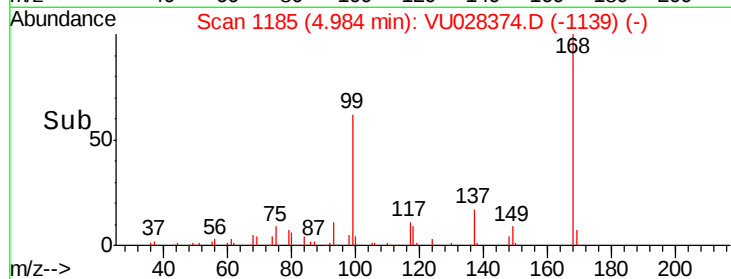
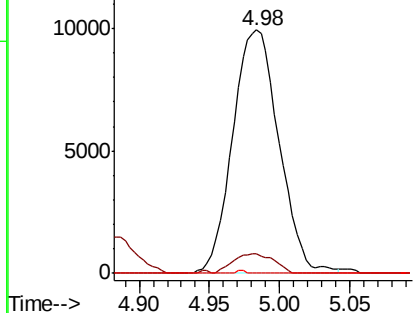
#36
 1,1-Dichloropropene
 Concen: 4.402 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Instrument :
 MSVOA_U
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 PB115109ZHE#03

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.2	15.8	47.4#
77	0.2	24.6	36.8#

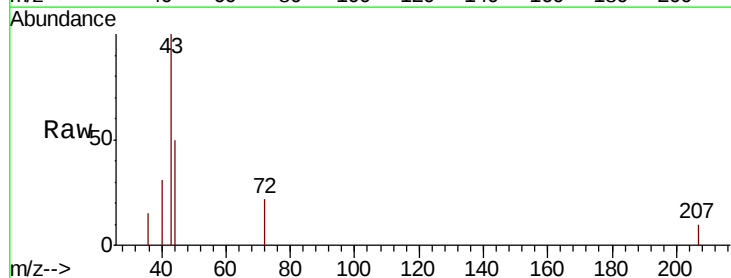


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): VU0
 Ion 76.90 (76.60 to 77.60): VU0

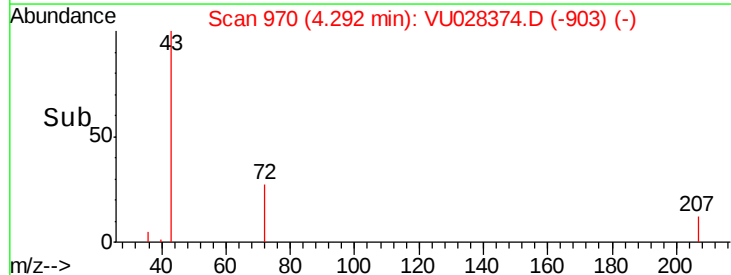
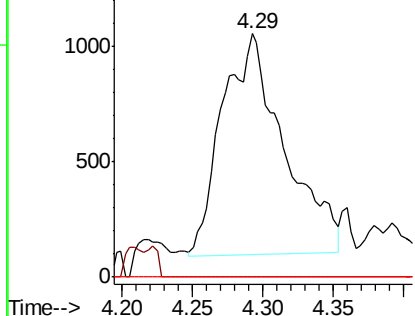


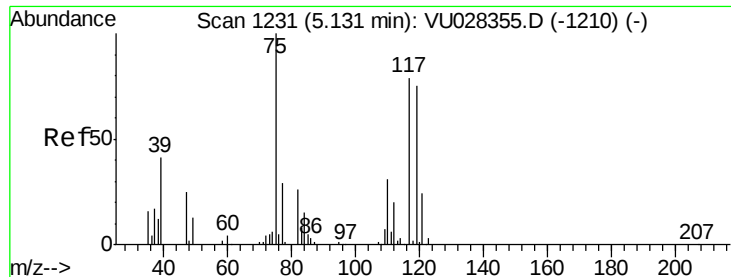
#37
 Ethyl Acetate
 Concen: 0.414 ug/l
 RT: 4.29 min Scan# 970
 Delta R.T. -0.08 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.4#
70	0.0	6.9	10.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 5.920 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#03

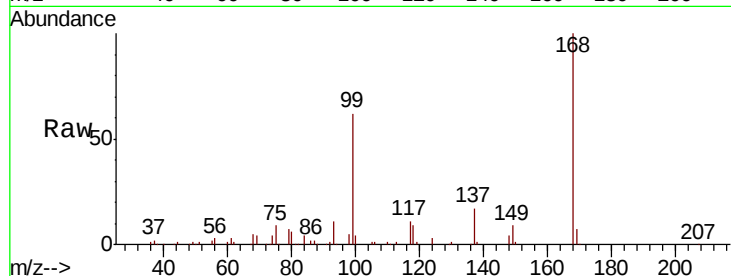
Tot Ion:117 Resp: 25199

Ion Ratio Lower Upper

117 100

119 5.3 76.3 114.5#

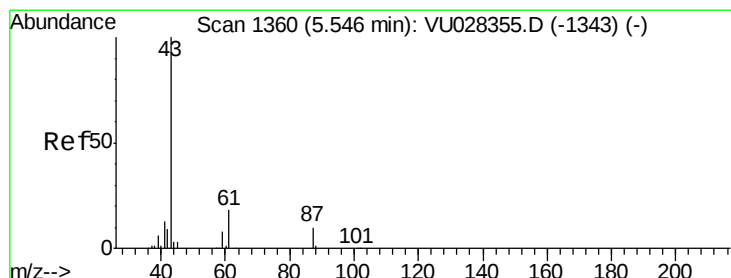
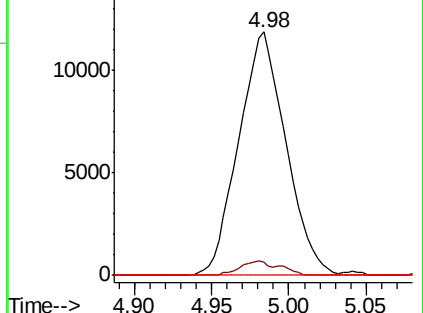
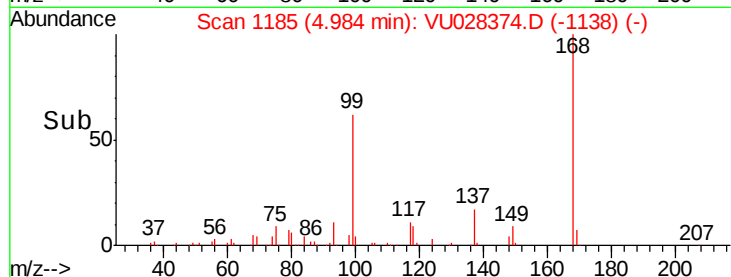
121 0.0 24.7 37.1#



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: 2.977 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

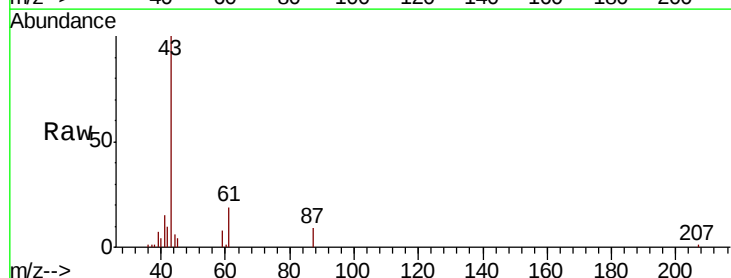
Tgt Ion: 43 Resp: 33323

Ion Ratio Lower Upper

43 100

61 16.5 14.5 21.7

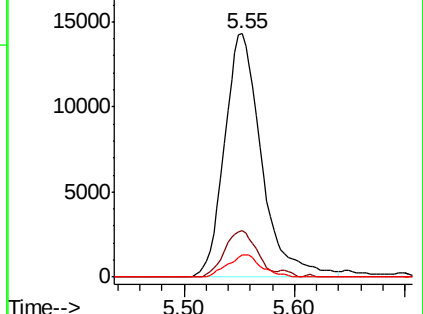
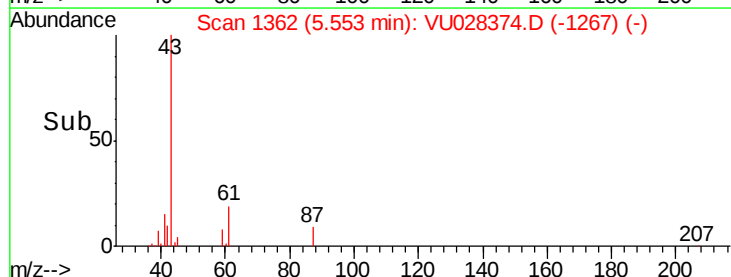
87 8.4 8.4 12.6#

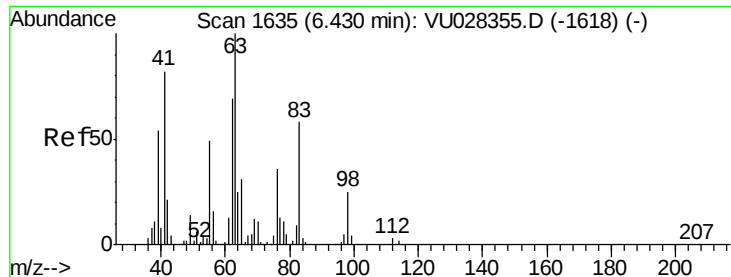


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.465 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

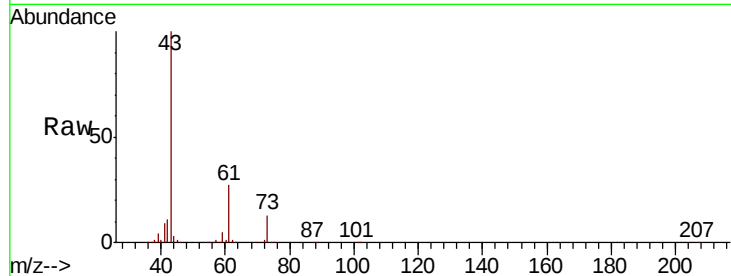
PB115109ZHE#03

Tot Ion: 63 Resp: 2092

Ion Ratio Lower Upper

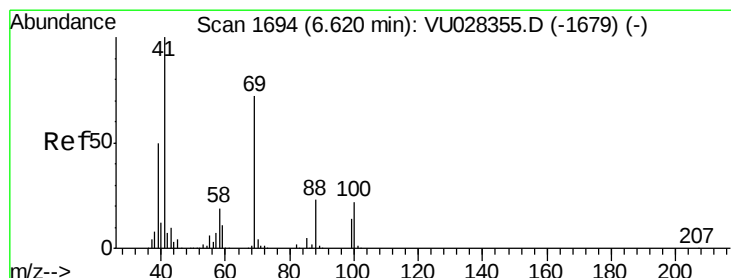
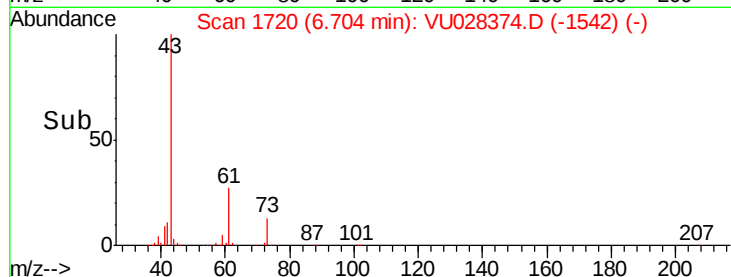
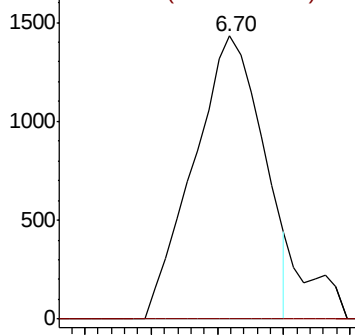
63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#48

Methyl methacrylate

Concen: 30.732 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

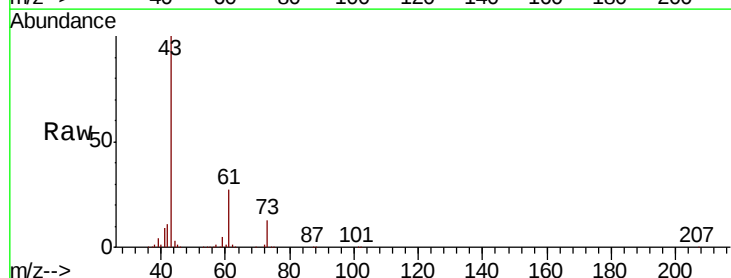
Tgt Ion: 41 Resp: 179194

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.4#

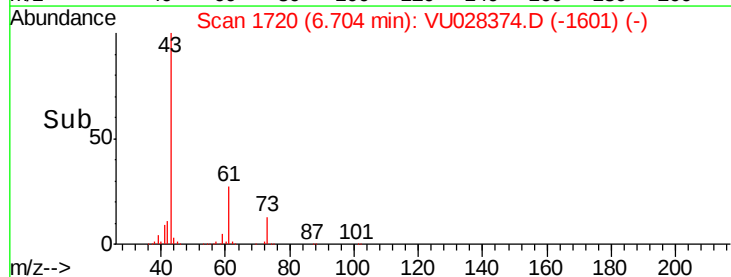
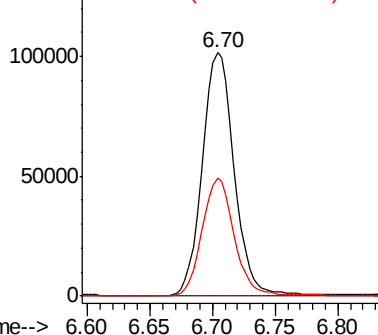
39 49.0 40.5 60.7

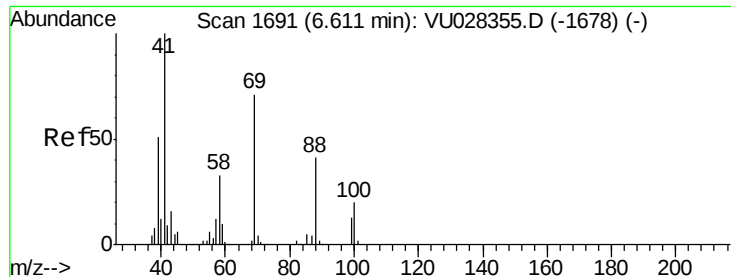


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#49

1,4-Dioxane

Concen: 1.932 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.09 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#03

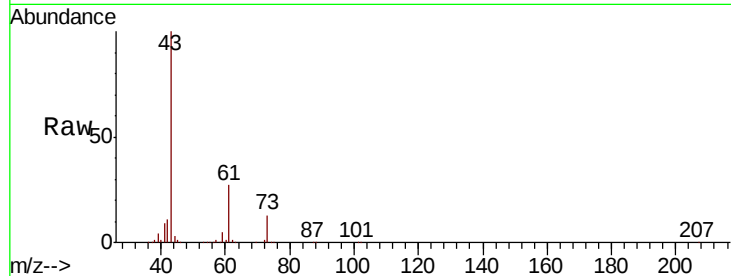
Tot Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

43 1154843.9 32.6 48.8#

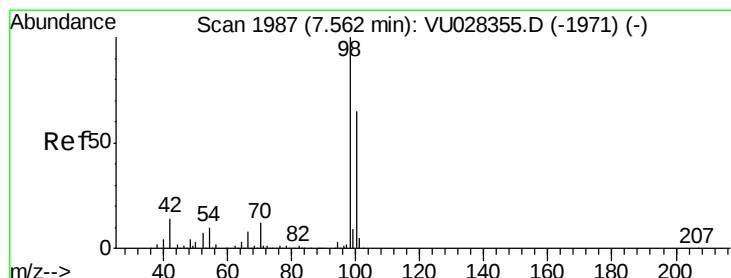
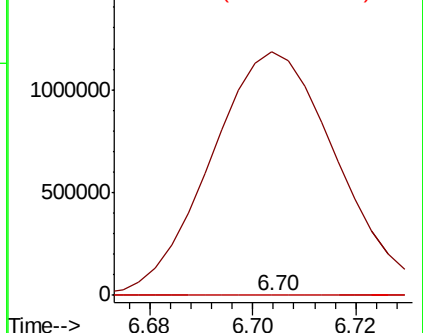
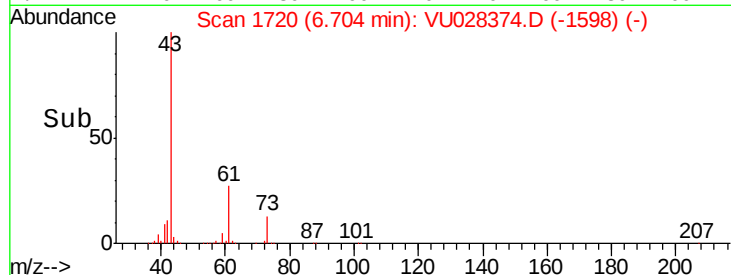
58 4105.0 68.7 103.1#



Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#50

Toluene-d8

Concen: 48.925 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028374.D

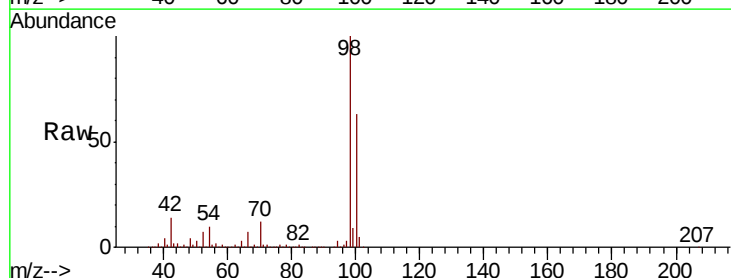
Acq: 28 Nov 2018 18:32

Tgt Ion: 98 Resp: 616301

Ion Ratio Lower Upper

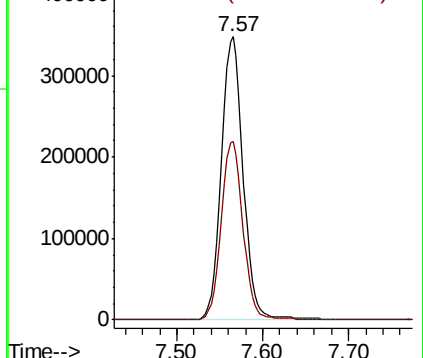
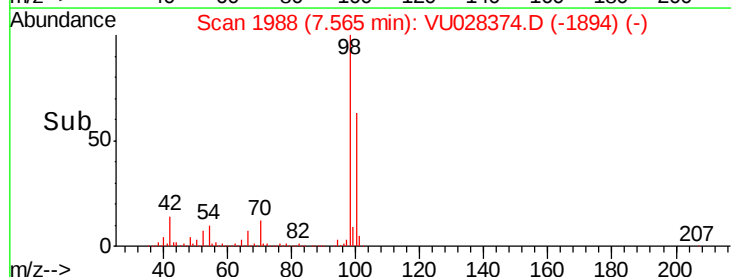
98 100

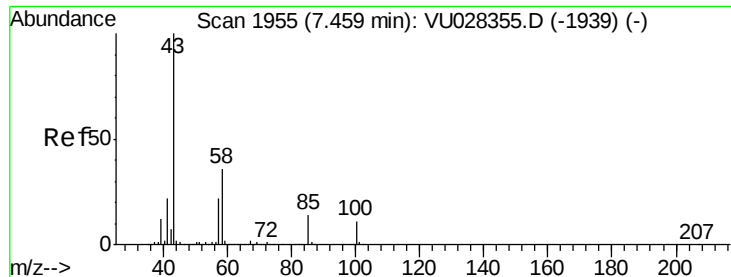
100 62.7 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 2.044 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

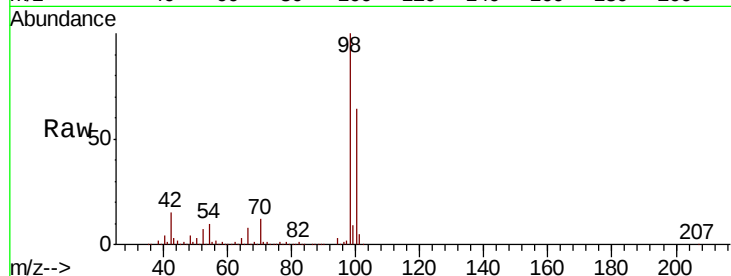
PB115109ZHE#03

Tot Ion: 43 Resp: 14613

Ion Ratio Lower Upper

43 100

58 37.9 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.56

10000

8000

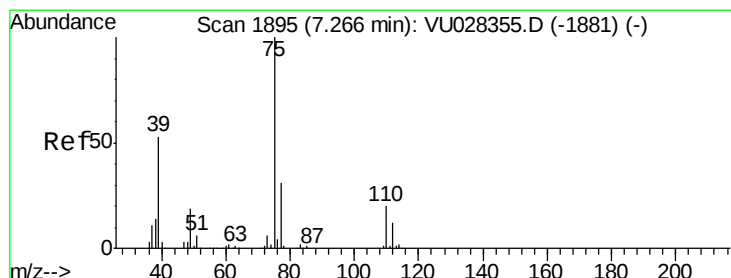
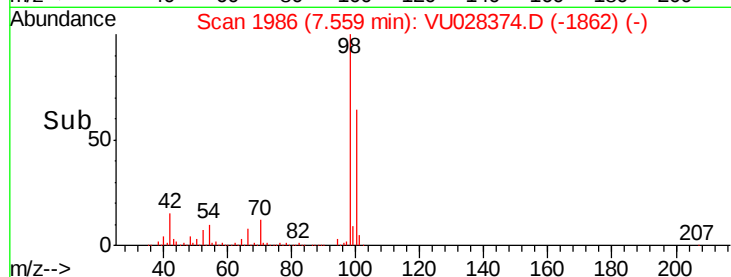
6000

4000

2000

0

Time--> 7.50 7.55 7.60



#54

cis-1,3-Dichloropropene

Concen: 9.364 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

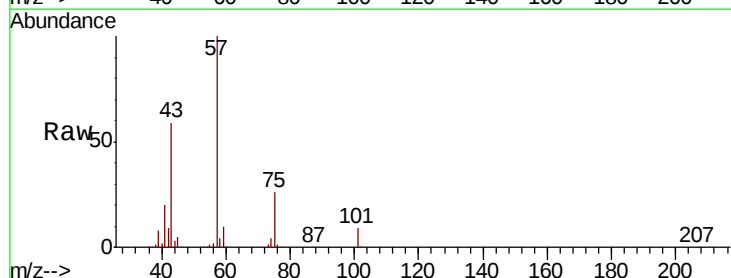
Tgt Ion: 75 Resp: 61611

Ion Ratio Lower Upper

75 100

77 0.3 24.9 37.3#

39 28.8 42.6 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

50000

40000

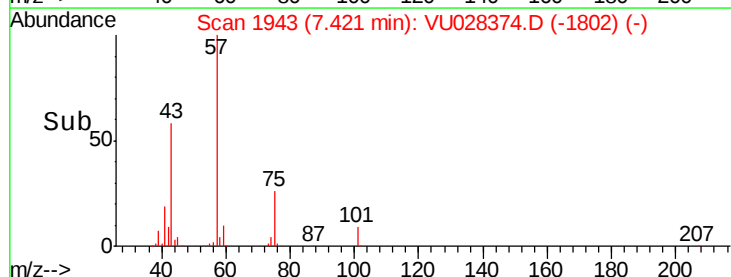
30000

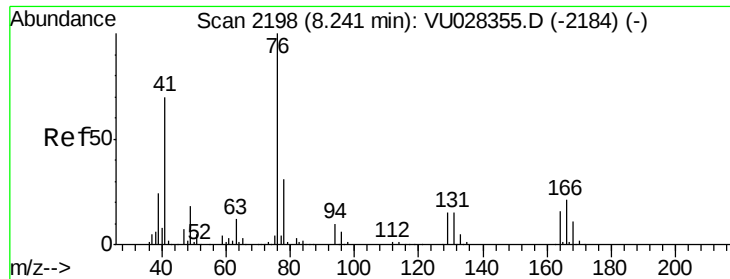
20000

10000

0

Time--> 7.35 7.40 7.45 7.50





#57

1,3-Dichloropropane

Concen: 1.976 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU028374.D

Acq: 28 Nov 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

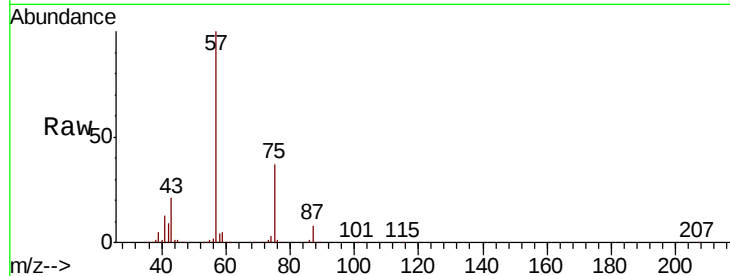
PB115109ZHE#03

Tot Ion: 76 Resp: 13335

Ion Ratio Lower Upper

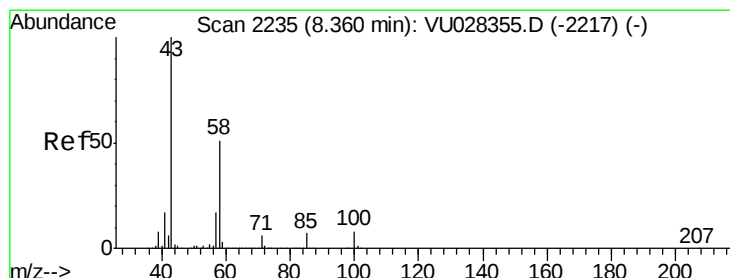
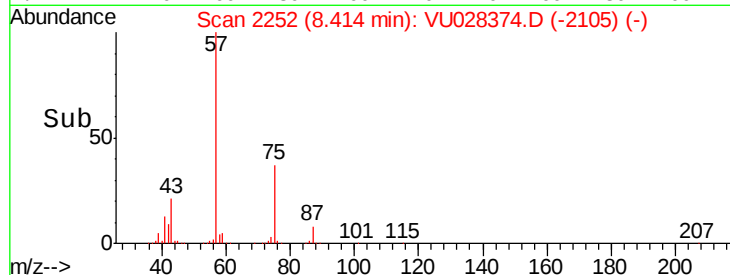
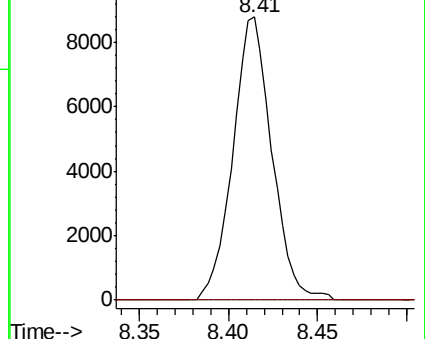
76 100

78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 38.946 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.05 min

Lab File: VU028374.D

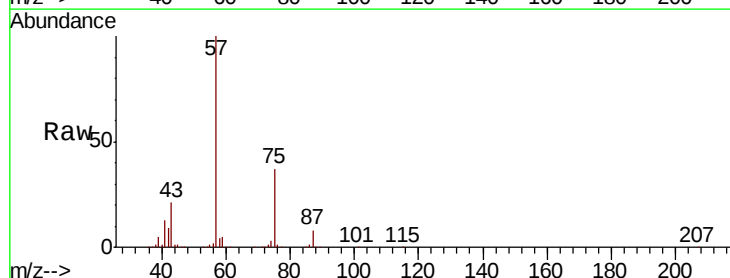
Acq: 28 Nov 2018 18:32

Tgt Ion: 43 Resp: 215675

Ion Ratio Lower Upper

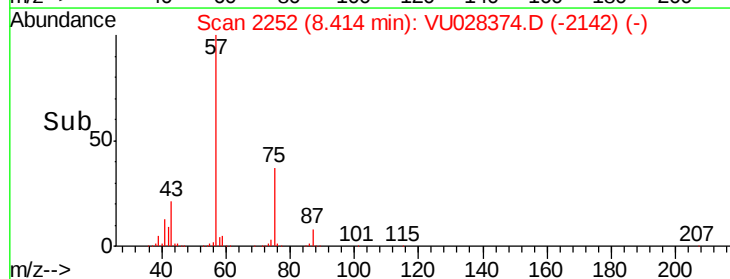
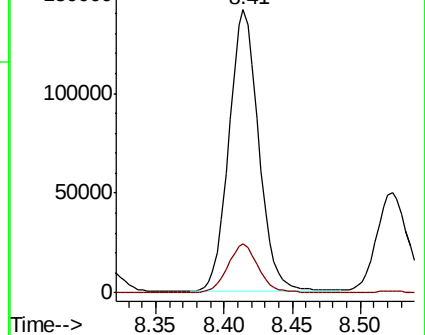
43 100

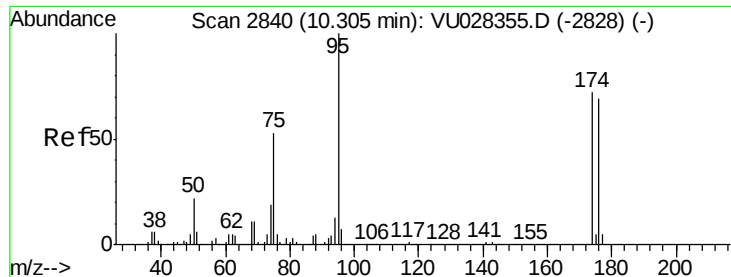
58 18.3 25.5 76.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

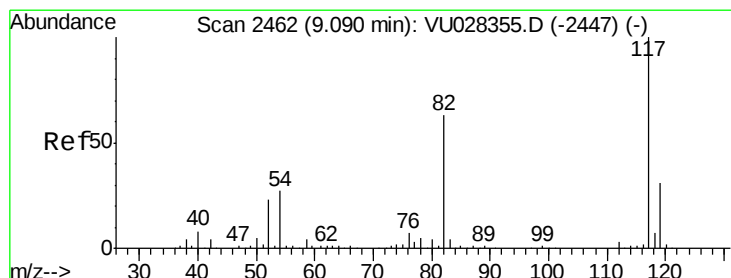
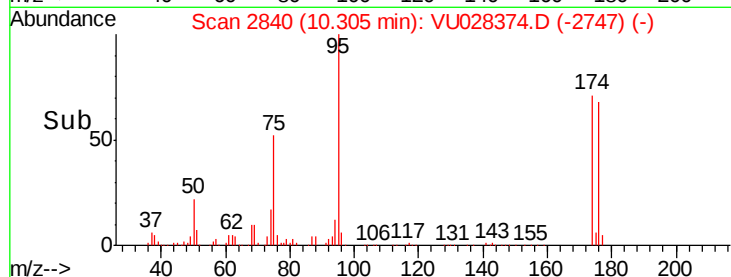
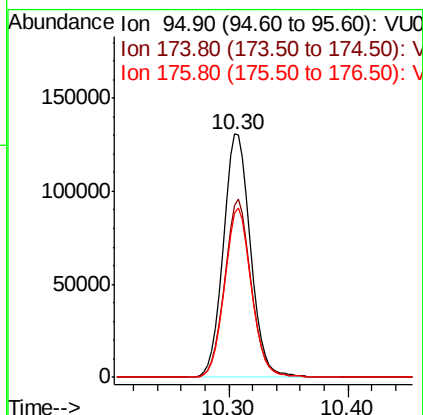
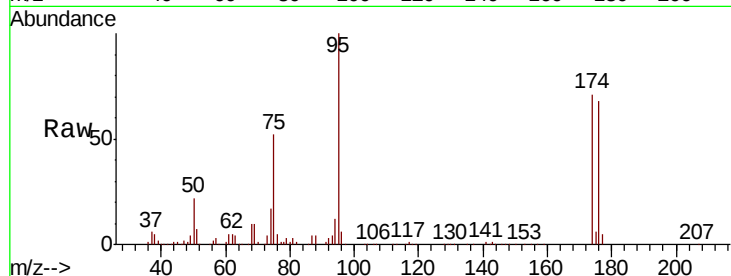




#62
4-Bromofluorobenzene
Concen: 45.655 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

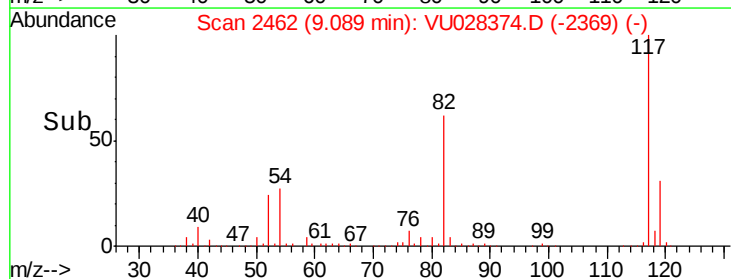
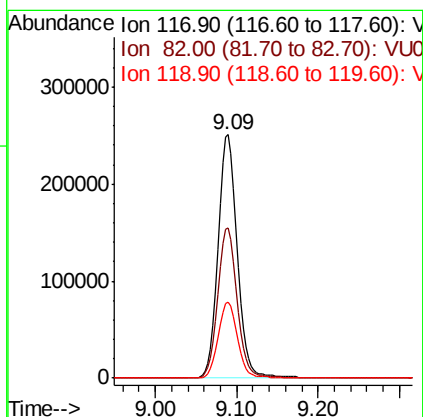
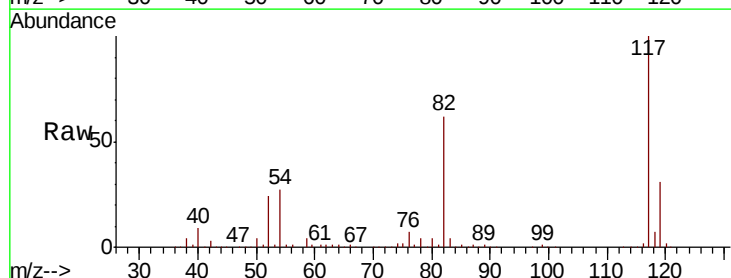
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#03

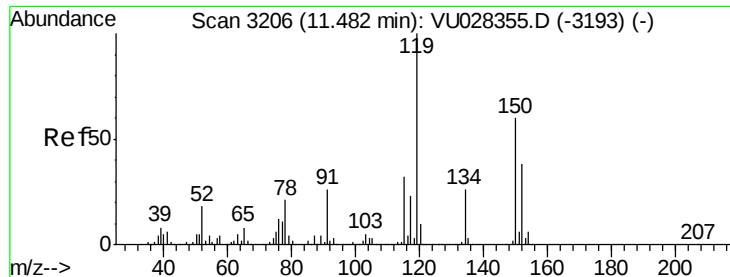
Tot Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	145.4
176	68.6	0.0	140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.8	50.3	75.5
119	31.1	24.8	37.2



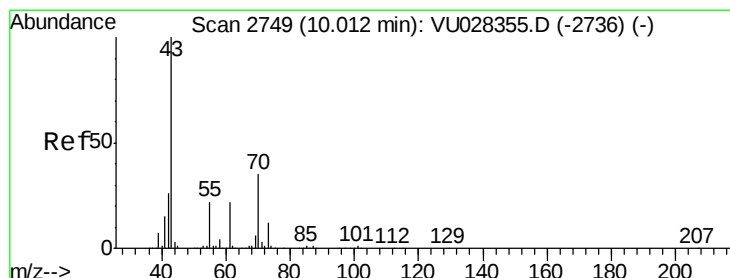
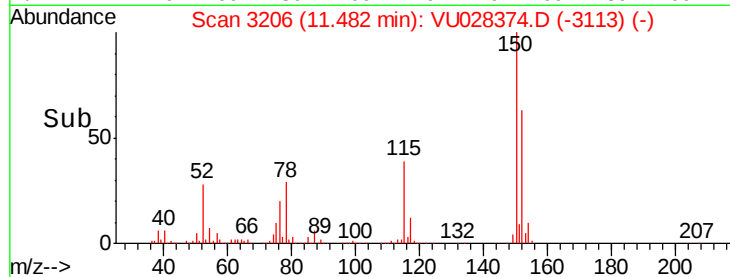
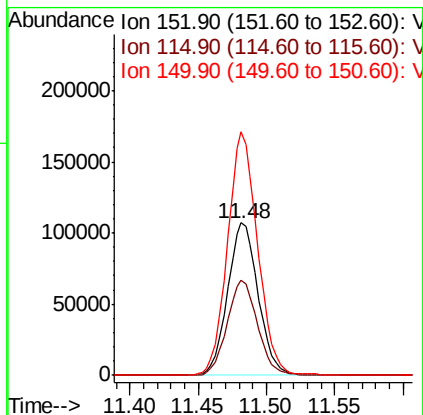
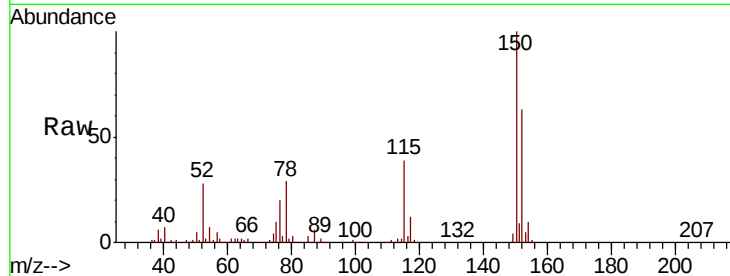


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#03

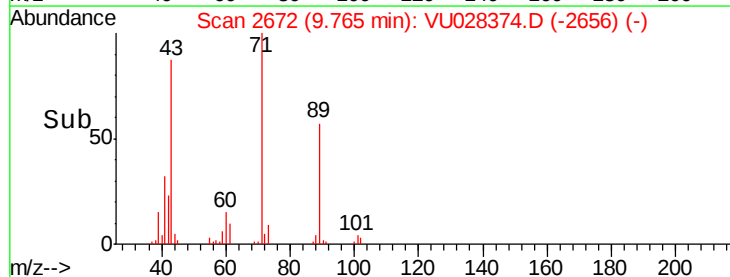
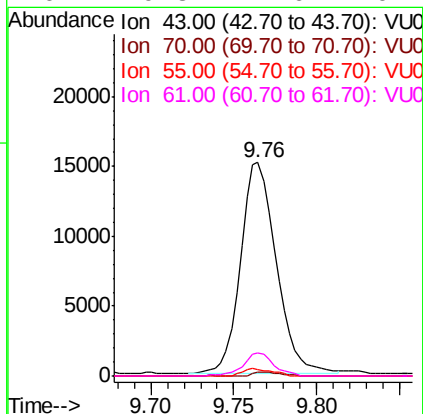
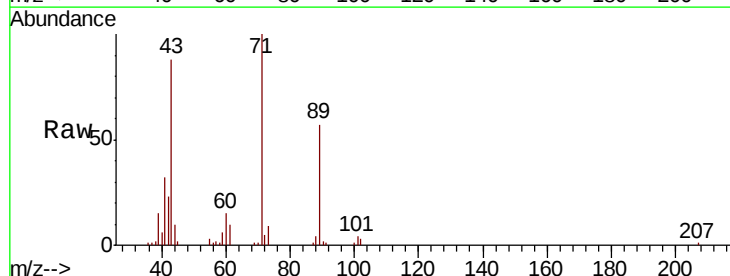
Tot Ion:152 Resp: 166064
Ion Ratio Lower Upper
152 100
115 62.0 45.0 134.8
150 157.7 0.0 349.2

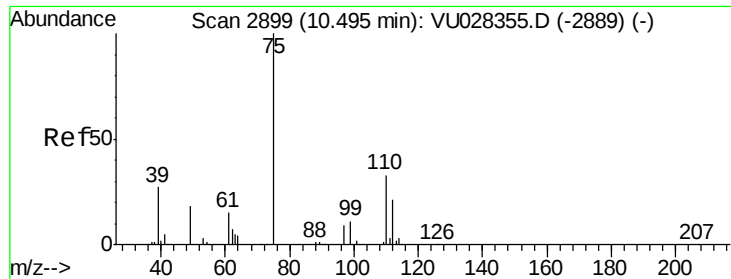


#74

N-ethyl acetate
Concen: 2.806 ug/l
RT: 9.76 min Scan# 2672
Delta R.T. -0.25 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

Tgt Ion: 43 Resp: 22706
Ion Ratio Lower Upper
43 100
70 1.5 28.4 42.6#
55 2.9 18.0 27.0#
61 9.3 17.6 26.4#

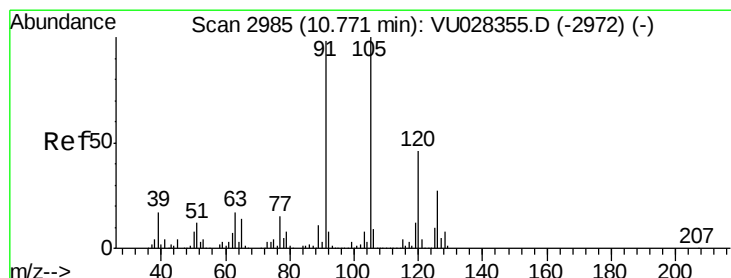
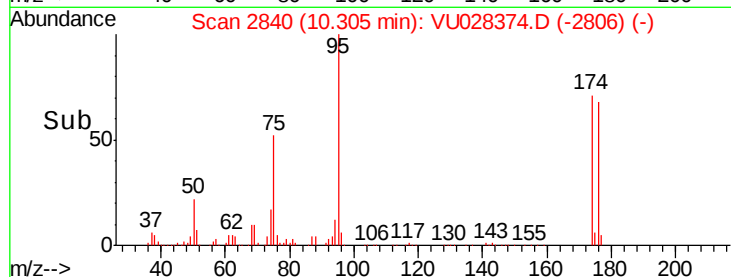
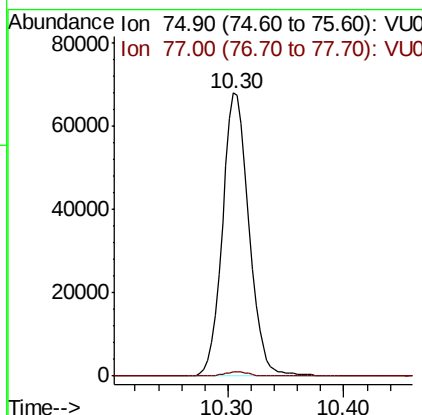
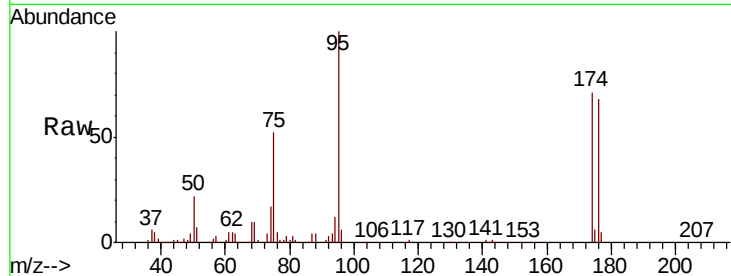




#76
 1,2,3-Trichloropropane
 Concen: 23.446 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

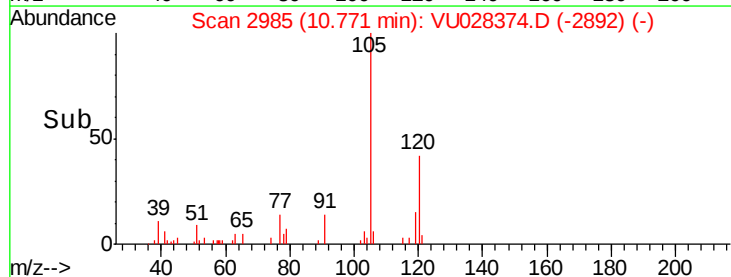
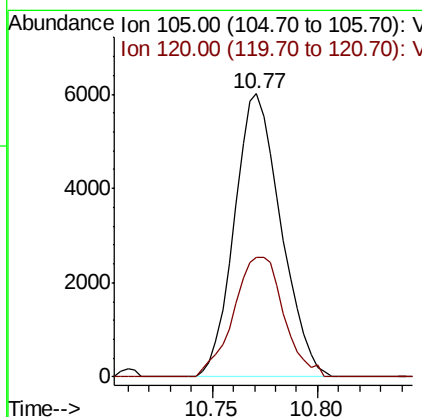
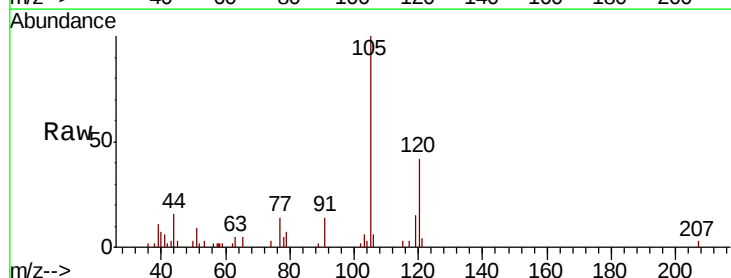
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#03

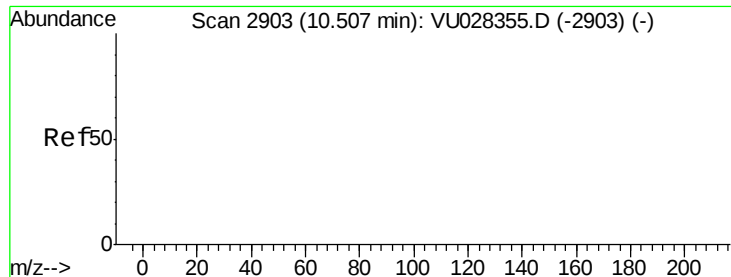
Tot Ion: 75 Resp: 107973
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.4 67.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.844 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028374.D
 Acq: 28 Nov 2018 18:32

Tgt Ion: 105 Resp: 9181
 Ion Ratio Lower Upper
 105 100
 120 45.7 23.4 70.0

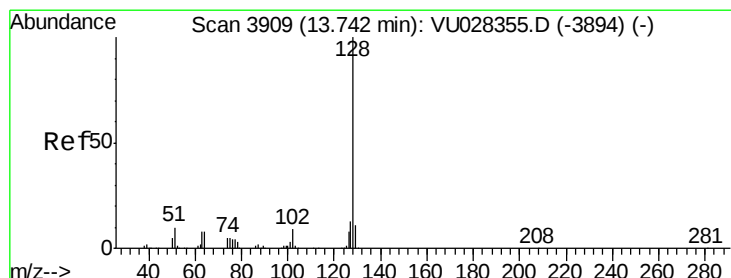
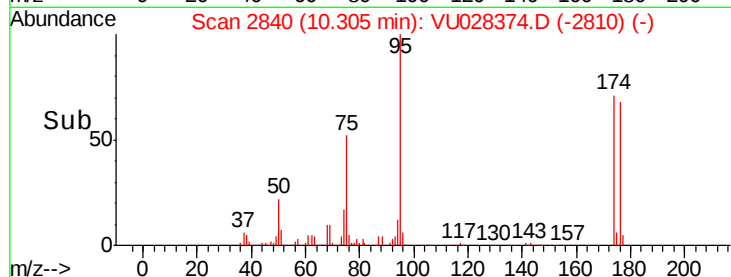
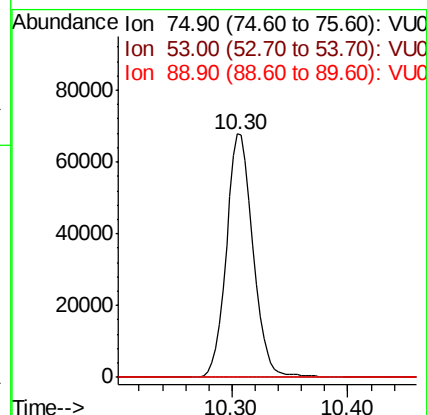
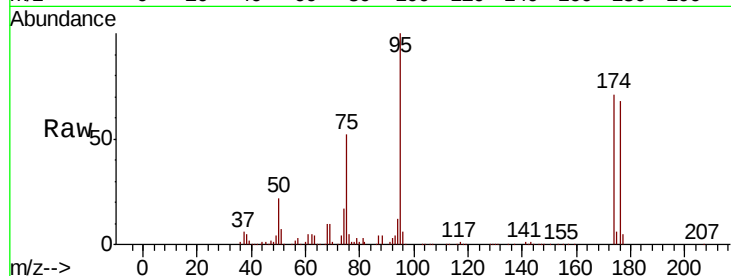




#81
trans-1,4-Dichloro-2-butene
Concen: 62.238 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.20 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#03

Tot Ion: 75 Resp: 107973
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 2.870 ug/l
RT: 13.76 min Scan# 3914
Delta R.T. 0.02 min
Lab File: VU028374.D
Acq: 28 Nov 2018 18:32

Tgt Ion: 128 Resp: 513
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

