

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112818\
 Data File : VU028373.D
 Acq On : 28 Nov 2018 18:08
 Operator : MD/SY
 Sample : PB115109ZHE#02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#02

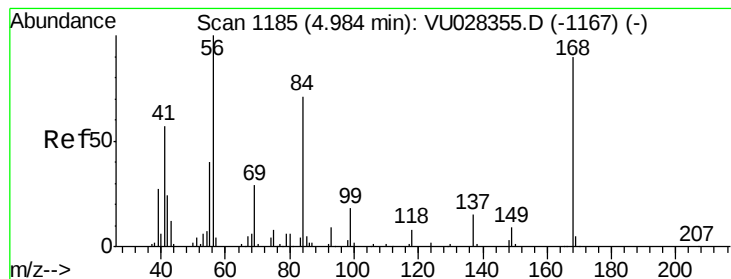
Quant Time: Nov 29 06:19:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	247623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	472290	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	421080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	171340	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	217829	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
35) Dibromofluoromethane	4.88	113	156604	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
50) Toluene-d8	7.57	98	612508	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
62) 4-Bromofluorobenzene	10.31	95	206133	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	4793	0.744	ug/l	97
11) Tert butyl alcohol	2.82	59	308	0.328	ug/l #	72
16) Acetone	2.32	43	23634	9.336	ug/l	97
18) Methyl Acetate	2.62	43	4357	0.618	ug/l	93
20) Methylene Chloride	2.70	84	6904	1.862	ug/l	90
25) 2-Butanone	4.28	43	1266	0.349	ug/l #	54
31) Cyclohexane	4.98	56	6216	0.521	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	23759	4.597	ug/l #	51
38) Carbon Tetrachloride	4.98	117	24673	5.814	ug/l #	16
43) Isopropyl Acetate	5.55	43	31917	2.860	ug/l	99
45) 1,2-Dichloropropane	6.71	63	2386	0.532	ug/l #	43
48) Methyl methacrylate	6.70	41	183598	31.580	ug/l #	47
49) 1,4-Dioxane	6.71	88	135	1.454	ug/l #	1
51) 4-Methyl-2-Pentanone	7.56	43	15309	2.148	ug/l	89
54) cis-1,3-Dichloropropene	7.42	75	63571	9.690	ug/l #	58
57) 1,3-Dichloropropane	8.41	76	13842	2.058	ug/l #	43
59) 2-Hexanone	8.41	43	217898	39.463	ug/l #	53
74) N-amyl acetate	9.76	43	24200	2.898	ug/l #	55
76) 1,2,3-Trichloropropane	10.30	75	111422	23.450	ug/l #	33
80) 1,3,5-Trimethylbenzene	10.77	105	9221	0.821	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.30	75	111422	62.249	ug/l #	100
95) Naphthalene	13.76	128	684	2.880	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: VU028373.D

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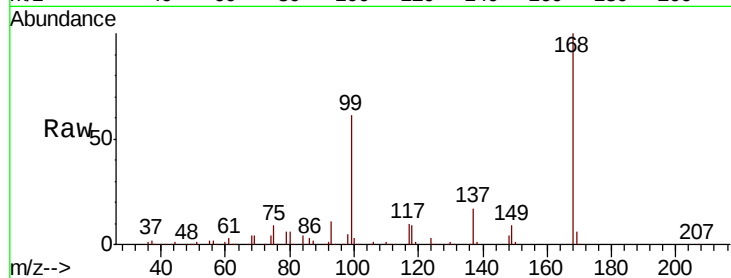
PB115109ZHE#02

Tot Ion:168 Resp: 247623

Ion Ratio Lower Upper

168 100

99 61.2 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

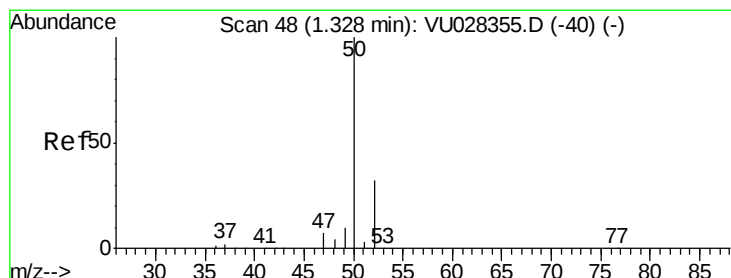
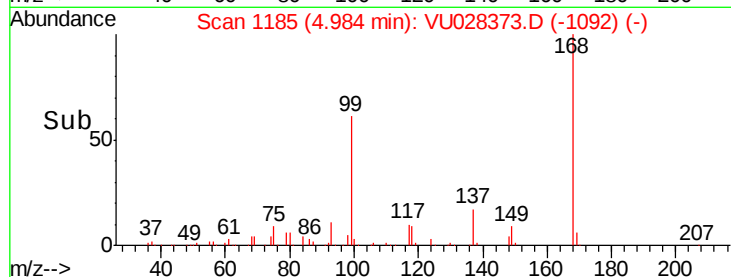
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.744 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028373.D

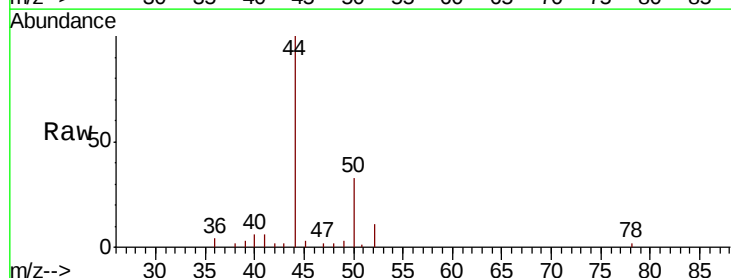
Acq: 28 Nov 2018 18:08

Tgt Ion: 50 Resp: 4793

Ion Ratio Lower Upper

50 100

52 33.7 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

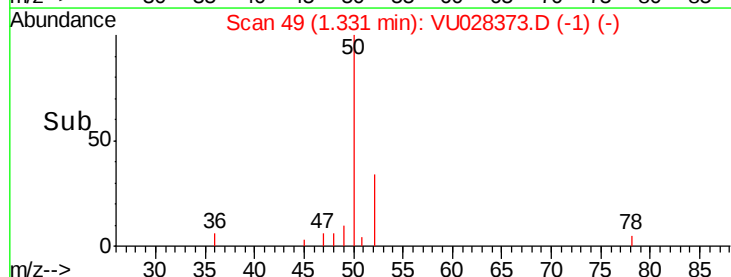
3000

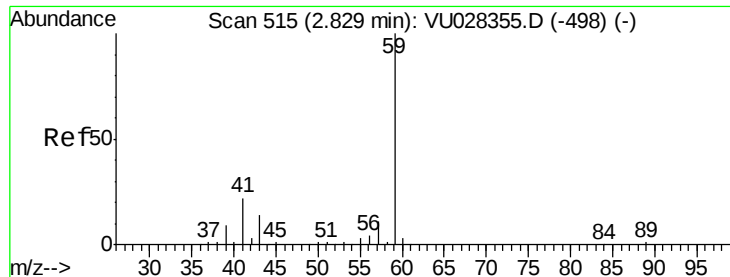
2000

1000

0

Time-->

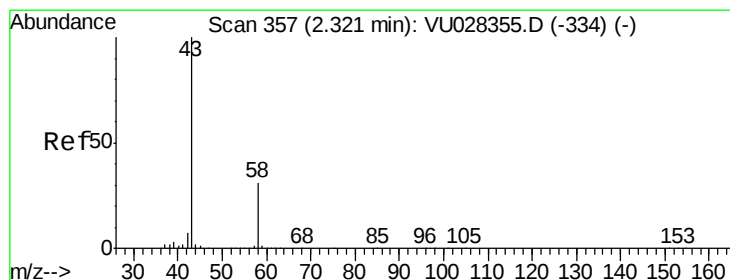
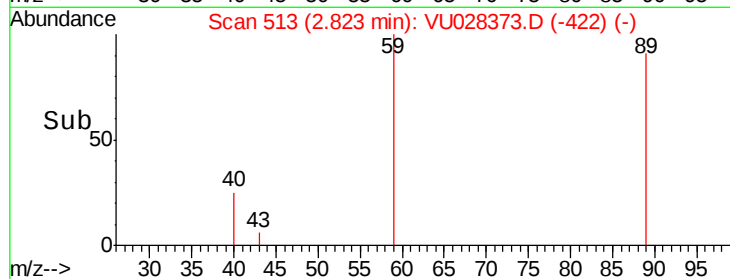
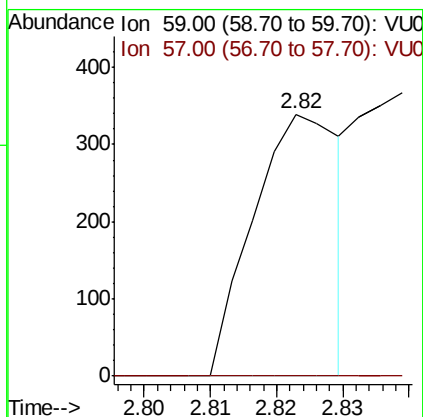
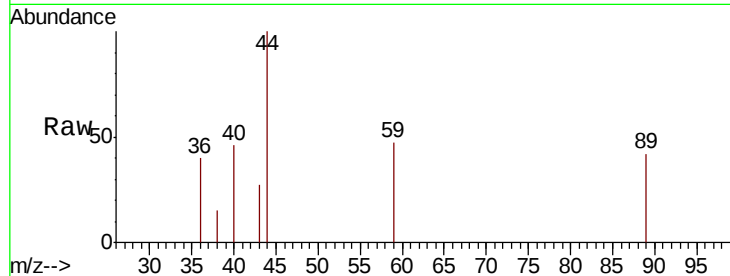




#11
Tert butyl alcohol
Concen: 0.328 ug/l
RT: 2.82 min Scan# 513
Delta R.T. -0.01 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

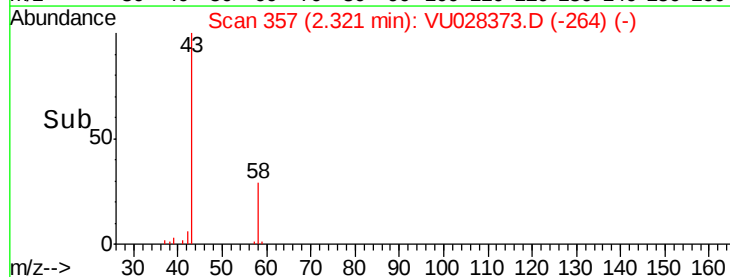
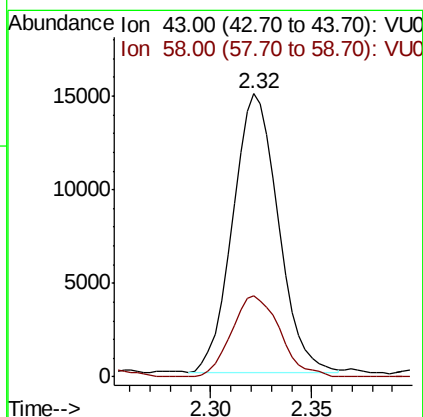
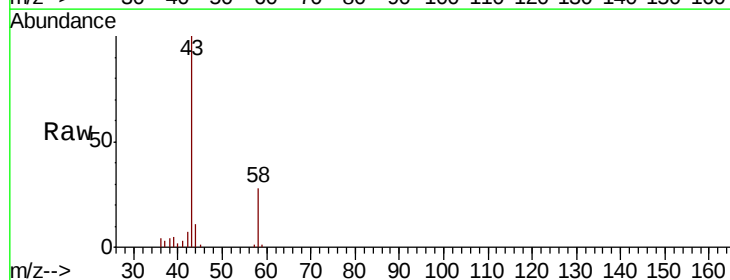
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#02

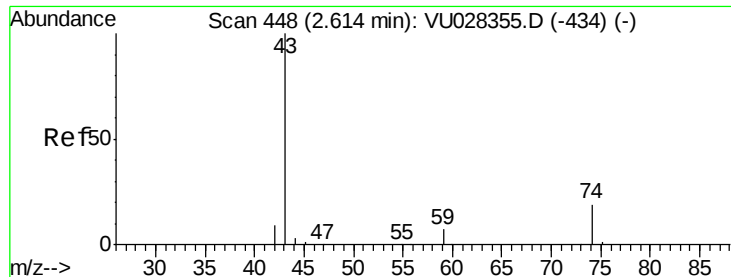
Tot Ion: 59 Resp: 308
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 9.336 ug/l
RT: 2.32 min Scan# 357
Delta R.T. -0.00 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

Tgt Ion: 43 Resp: 23634
Ion Ratio Lower Upper
43 100
58 28.9 24.4 36.6

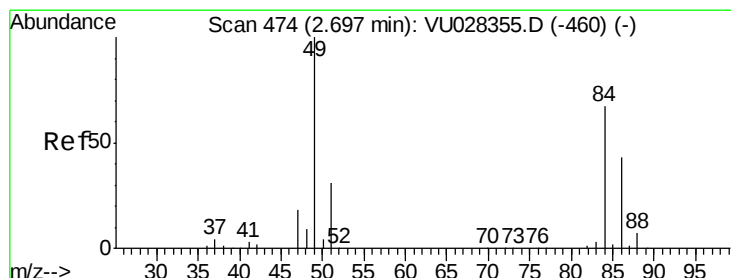
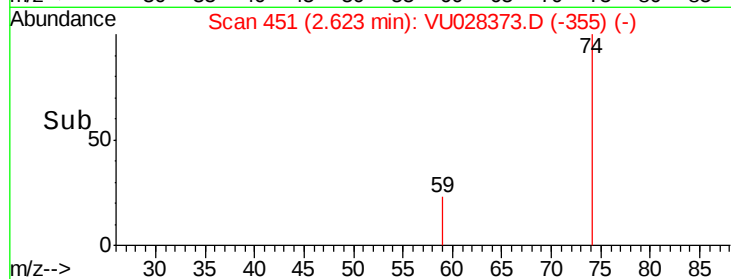
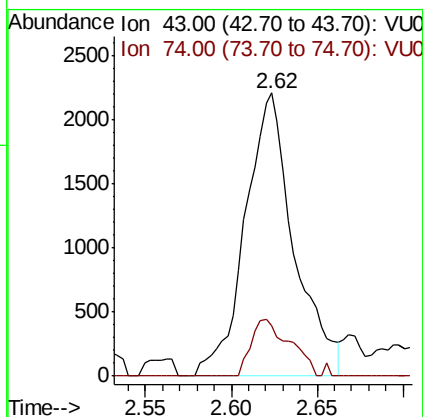
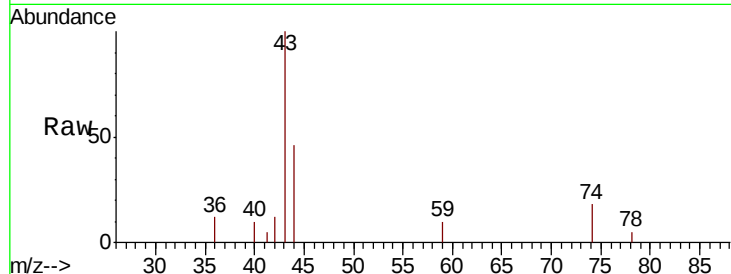




#18
Methyl Acetate
Concen: 0.618 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

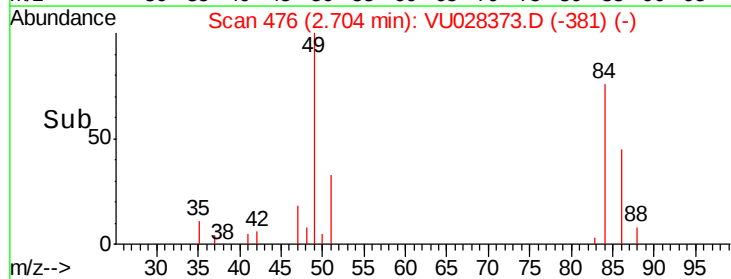
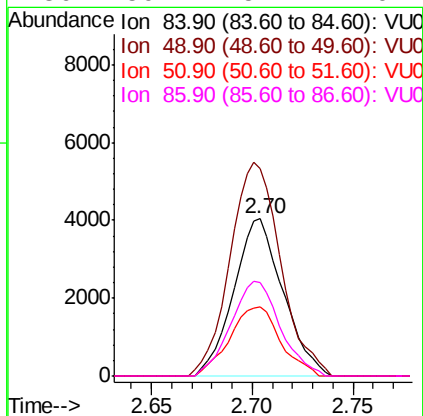
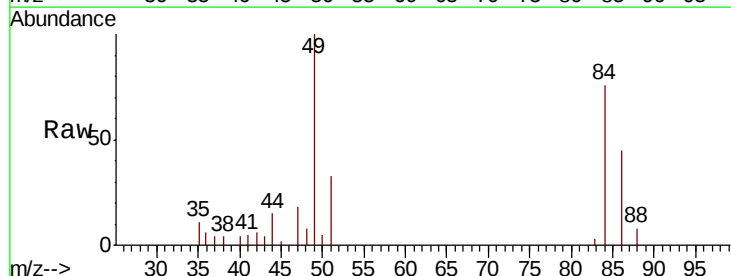
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#02

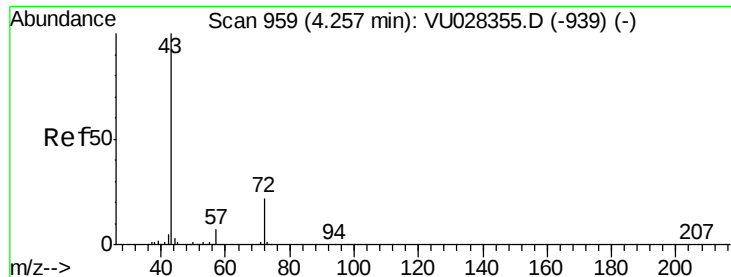
Tot Ion: 43 Resp: 4357
Ion Ratio Lower Upper
43 100
74 15.9 15.3 22.9



#20
Methylene Chloride
Concen: 1.862 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

Tgt Ion: 84 Resp: 6904
Ion Ratio Lower Upper
84 100
49 131.8 120.0 180.0
51 43.8 36.9 55.3
86 59.2 51.1 76.7





#25

2-Butanone

Concen: 0.349 ug/l

RT: 4.28 min Scan# 966

Delta R.T. 0.02 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

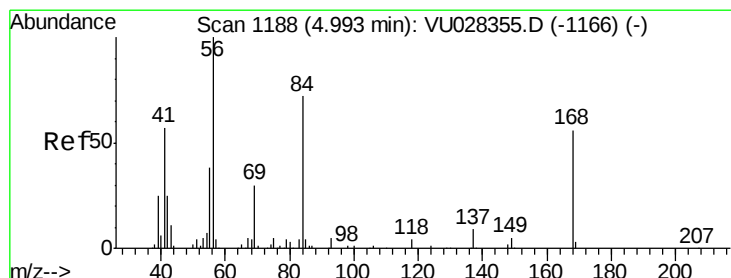
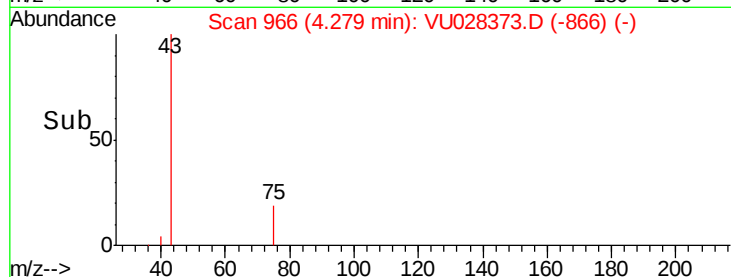
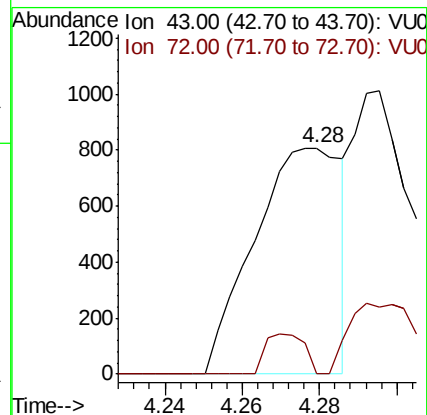
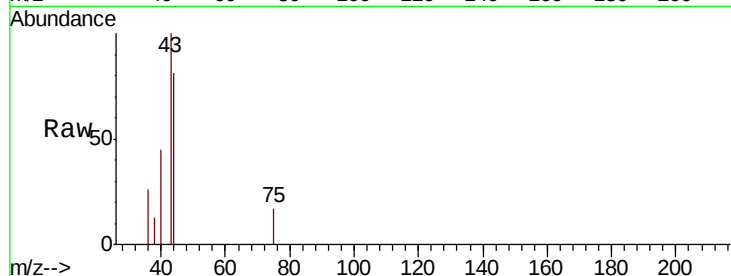
PB115109ZHE#02

Tot Ion: 43 Resp: 1266

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#31

Cyclohexane

Concen: 0.521 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

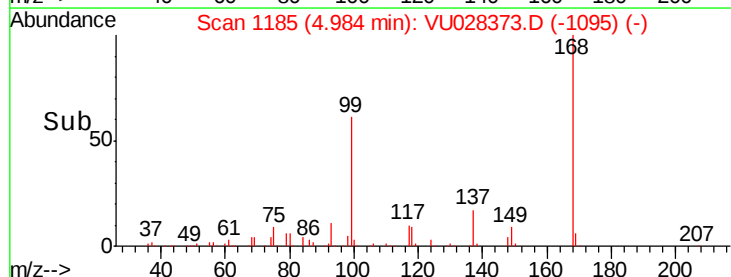
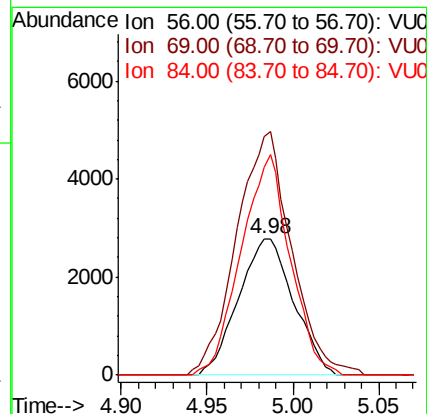
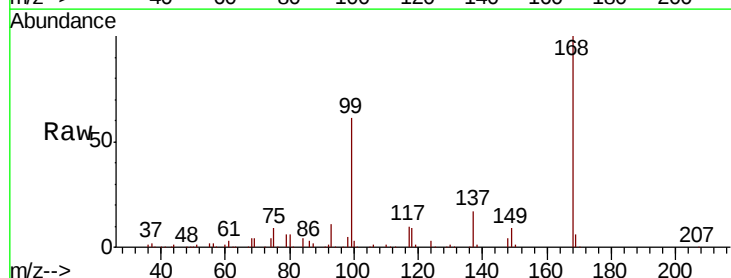
Tgt Ion: 56 Resp: 6216

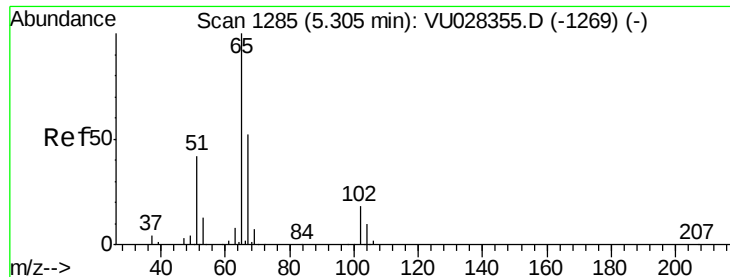
Ion Ratio Lower Upper

56 100

69 171.2 23.7 35.5#

84 152.2 57.3 85.9#

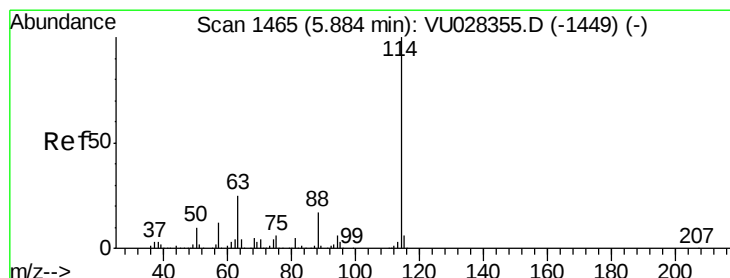
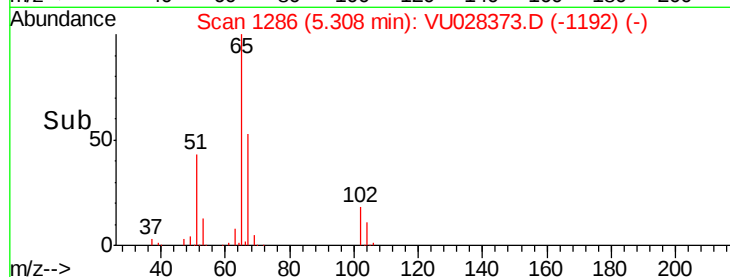
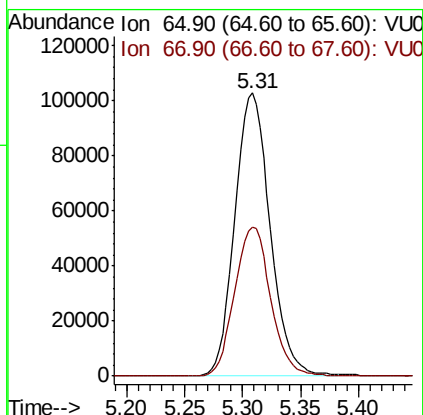
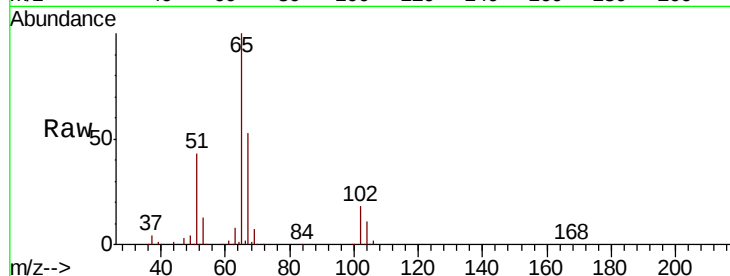




#33
 1,2-Dichloroethane-d4
 Concen: 52.636 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028373.D
 Acq: 28 Nov 2018 18:08

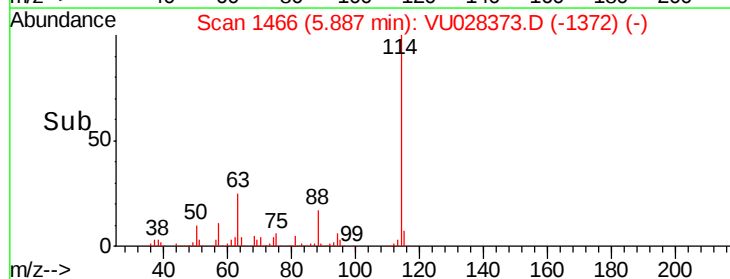
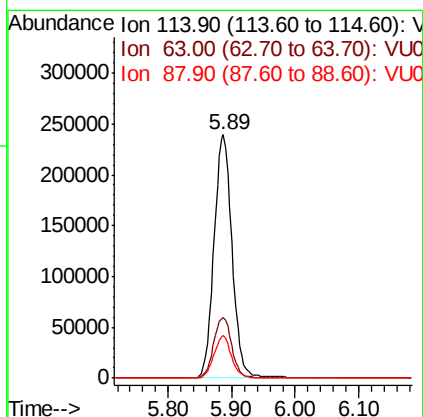
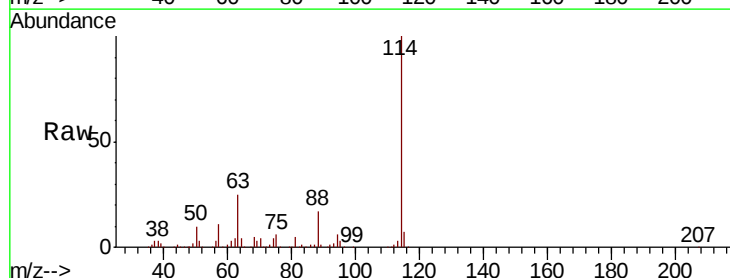
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#02

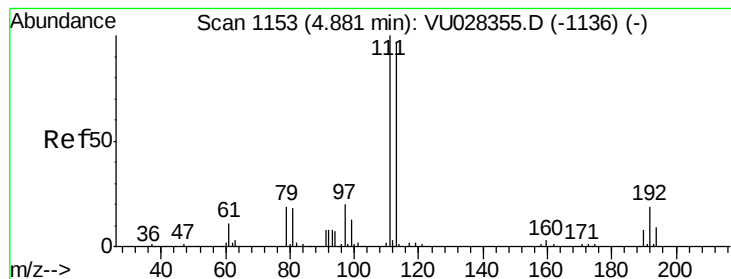
Tot Ion: 65 Resp: 217829
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028373.D
 Acq: 28 Nov 2018 18:08

Tgt Ion: 114 Resp: 472290
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 50.0
 88 17.4 0.0 34.4





#35

Dibromofluoromethane

Concen: 49.865 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#02

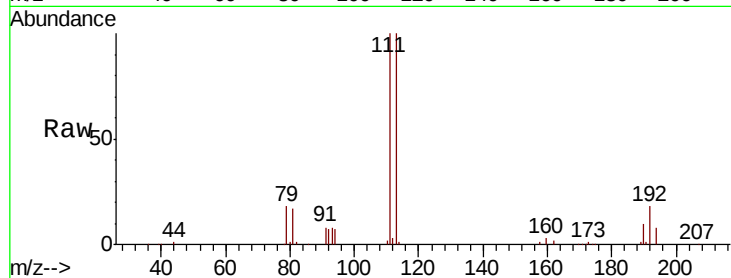
Tot Ion:113 Resp: 156604

Ion Ratio Lower Upper

113 100

111 103.8 82.9 124.3

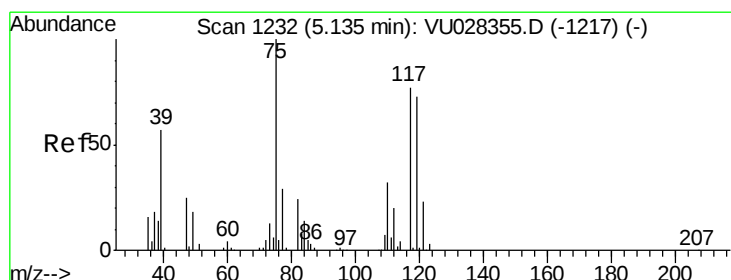
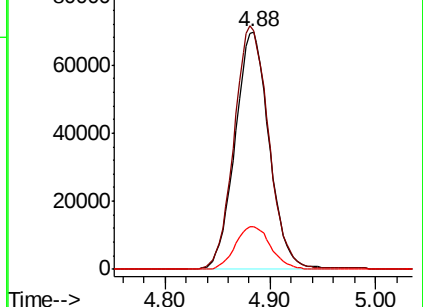
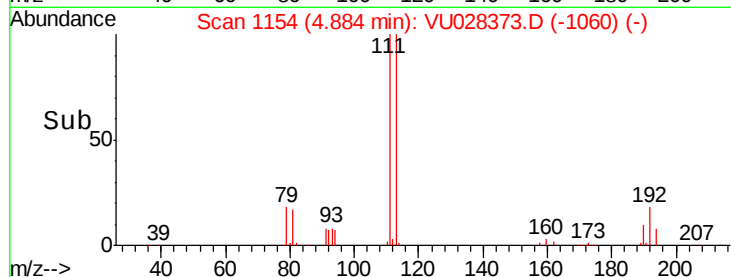
192 18.8 15.4 23.0



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: 4.597 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

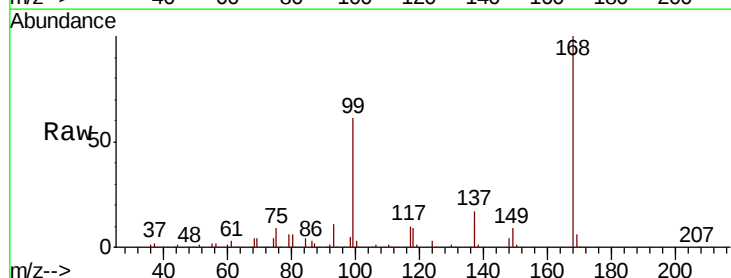
Tgt Ion: 75 Resp: 23759

Ion Ratio Lower Upper

75 100

110 7.8 15.8 47.4#

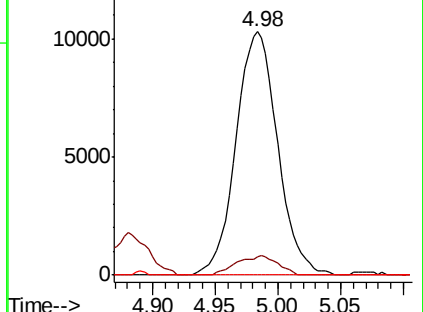
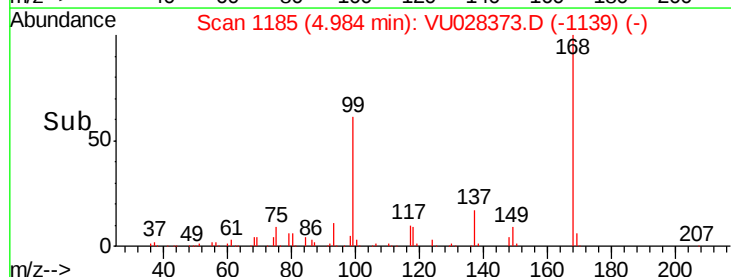
77 0.0 24.6 36.8#

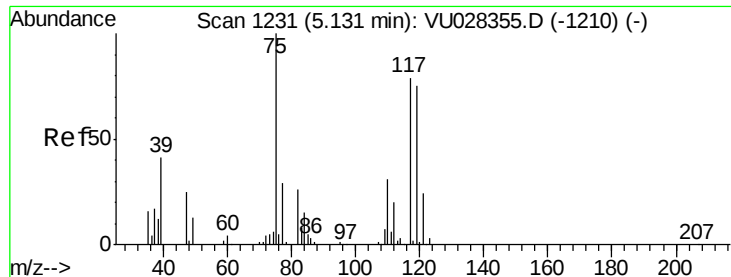


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.814 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#02

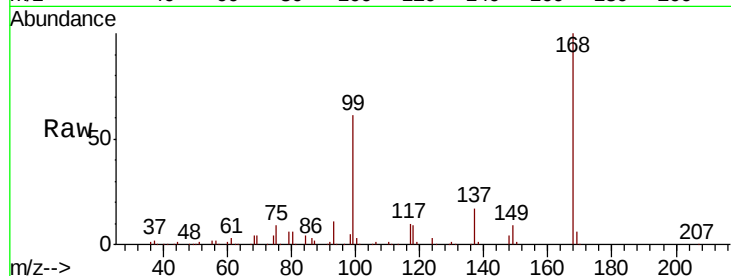
Tot Ion:117 Resp: 24673

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

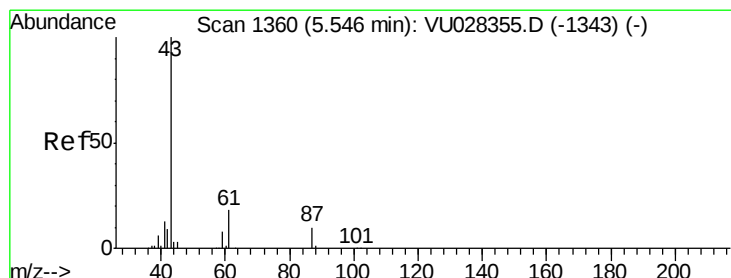
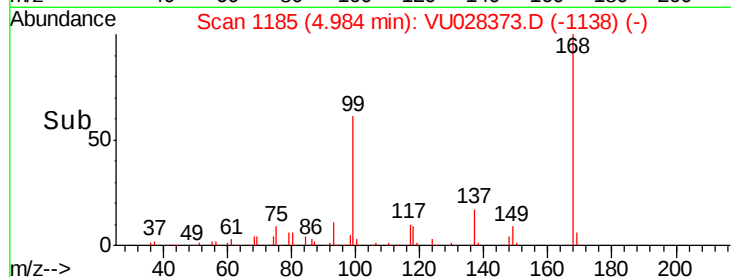
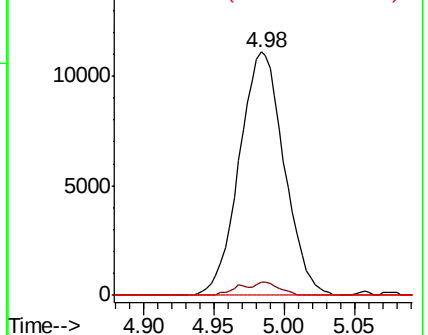
121 0.0 24.7 37.1#



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: 2.860 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

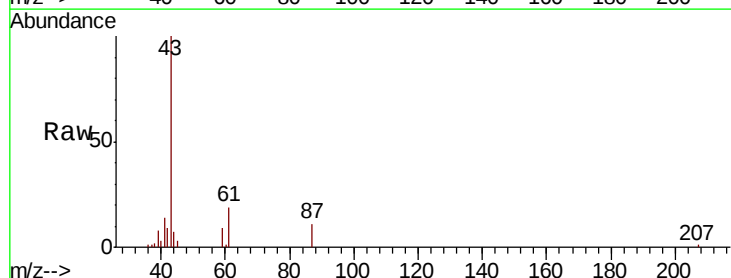
Tgt Ion: 43 Resp: 31917

Ion Ratio Lower Upper

43 100

61 18.5 14.5 21.7

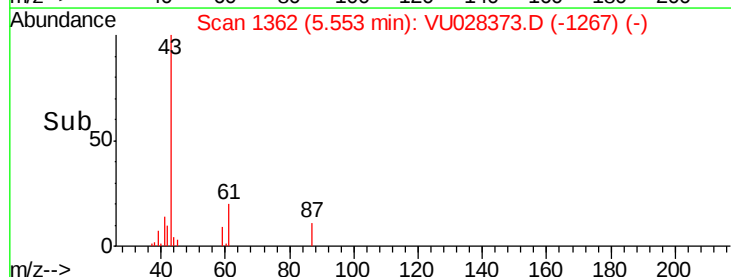
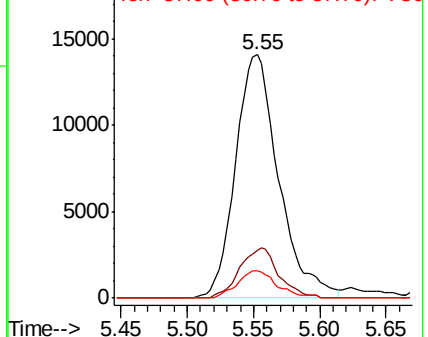
87 10.4 8.4 12.6

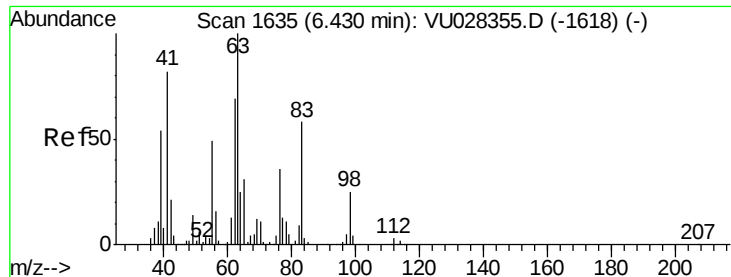


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.532 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.28 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

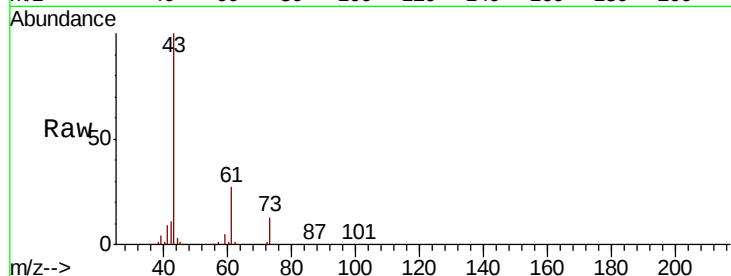
PB115109ZHE#02

Tot Ion: 63 Resp: 2386

Ion Ratio Lower Upper

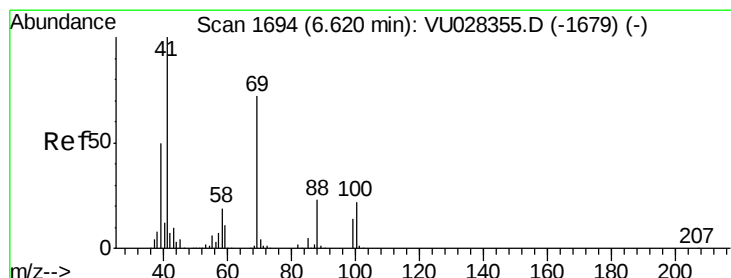
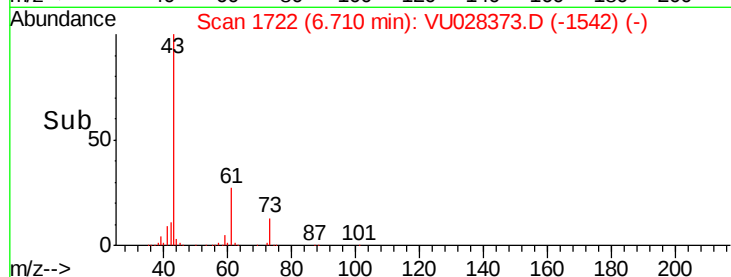
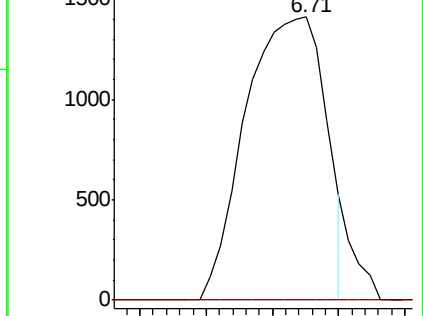
63 100

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: 31.580 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

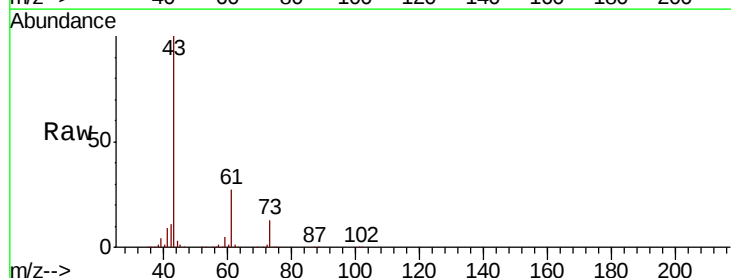
Tgt Ion: 41 Resp: 183598

Ion Ratio Lower Upper

41 100

69 0.1 59.0 88.4#

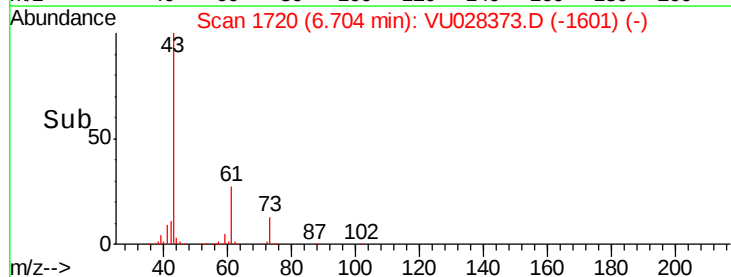
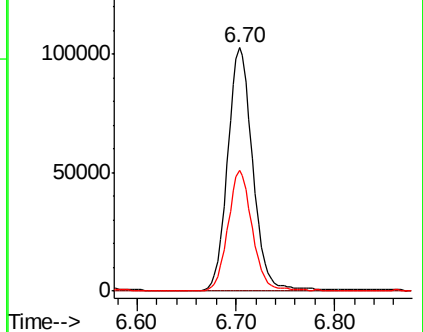
39 48.2 40.5 60.7

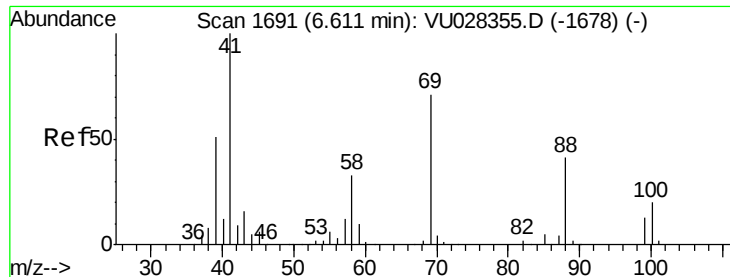


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#49

1,4-Dioxane

Concen: 1.454 ug/l

RT: 6.71 min Scan# 1722

Delta R.T. 0.10 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#02

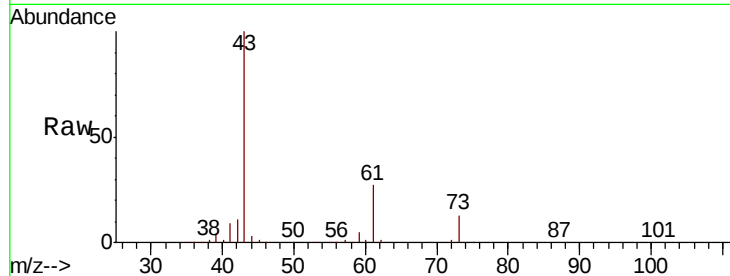
Tot Ion: 88 Resp: 135

Ion Ratio Lower Upper

88 100

43 1546832.6 32.6 48.8#

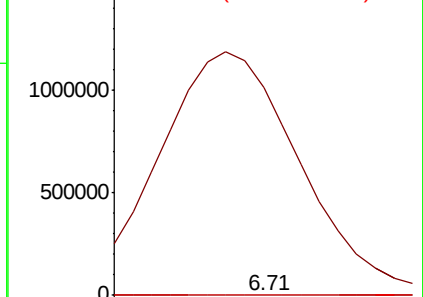
58 5569.6 68.7 103.1#



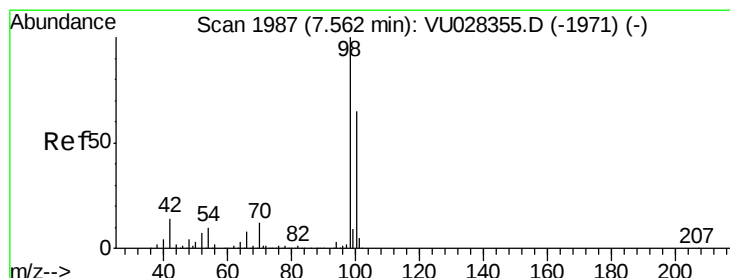
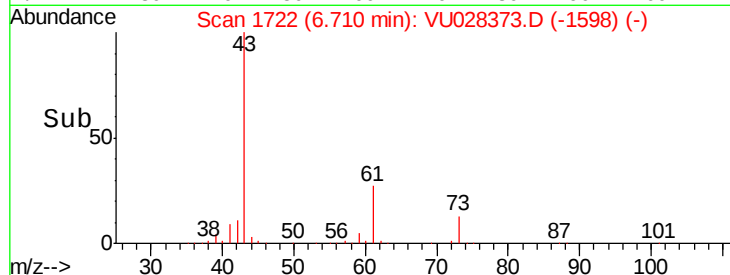
Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#50

Toluene-d8

Concen: 48.767 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028373.D

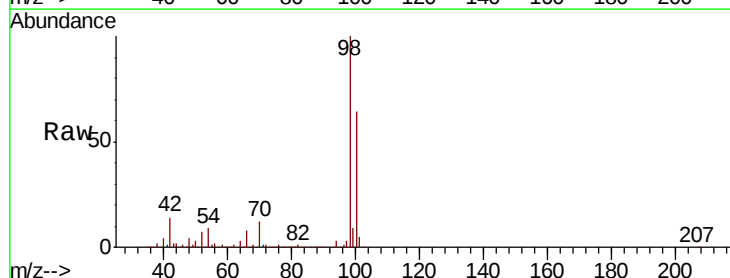
Acq: 28 Nov 2018 18:08

Tgt Ion: 98 Resp: 612508

Ion Ratio Lower Upper

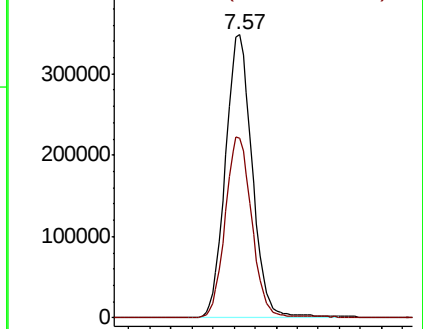
98 100

100 64.0 50.8 76.2

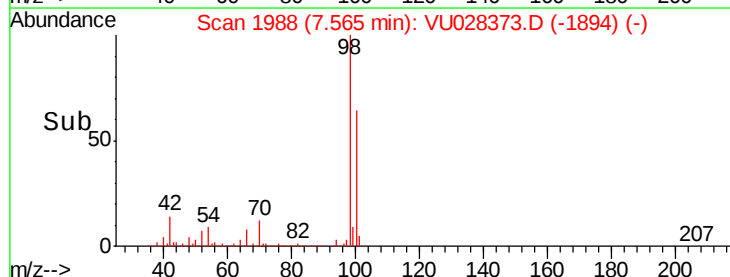


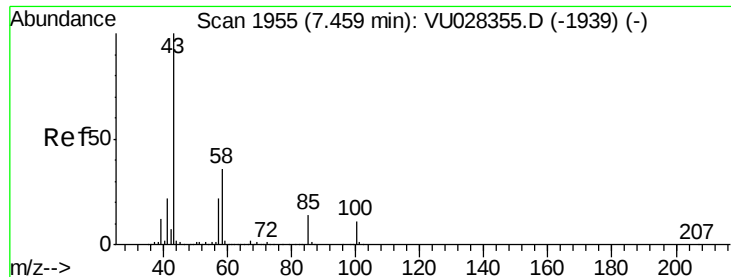
Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 2.148 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

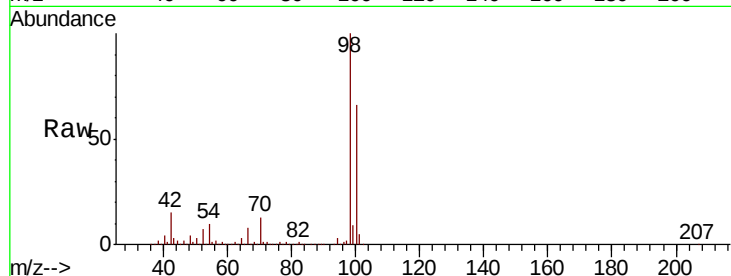
PB115109ZHE#02

Tot Ion: 43 Resp: 15309

Ion Ratio Lower Upper

43 100

58 42.6 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

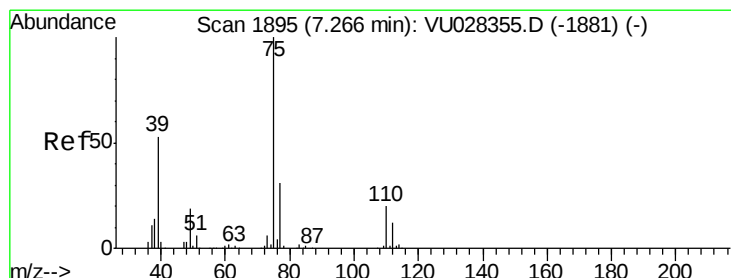
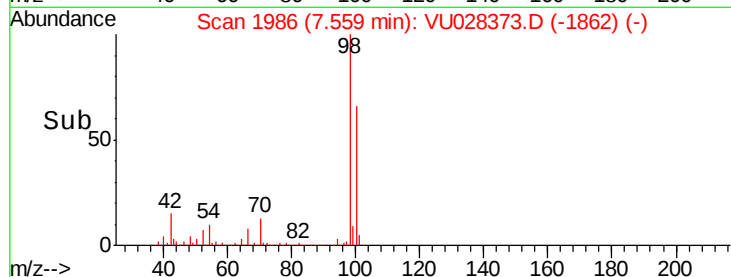
0

Time-->

7.50

7.55

7.60



#54

cis-1,3-Dichloropropene

Concen: 9.690 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

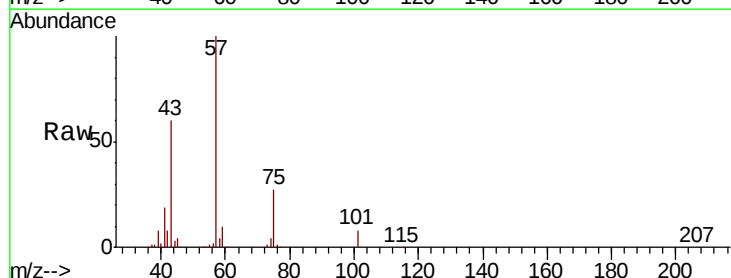
Tgt Ion: 75 Resp: 63571

Ion Ratio Lower Upper

75 100

77 0.7 24.9 37.3#

39 29.4 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

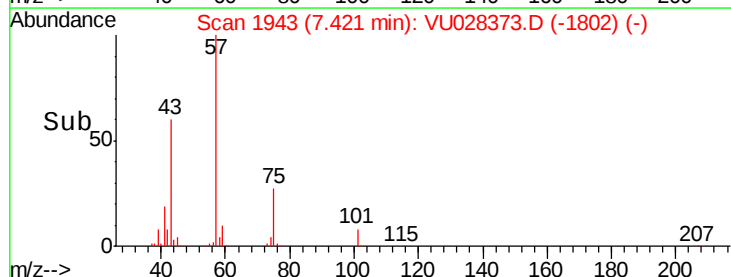
Time-->

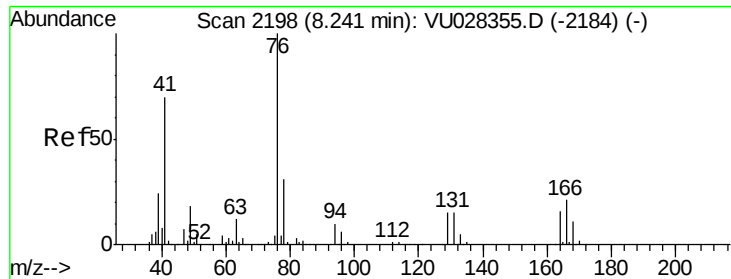
7.35

7.40

7.45

7.50

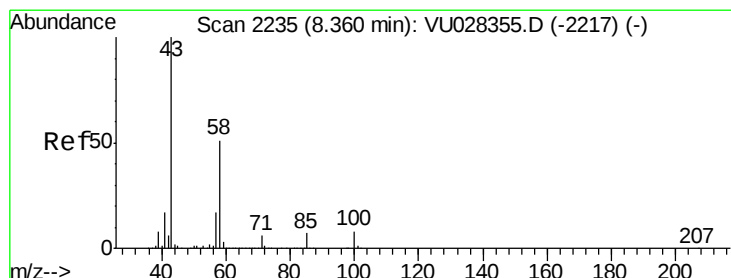
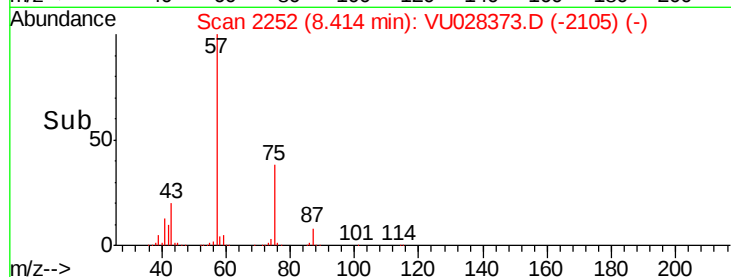
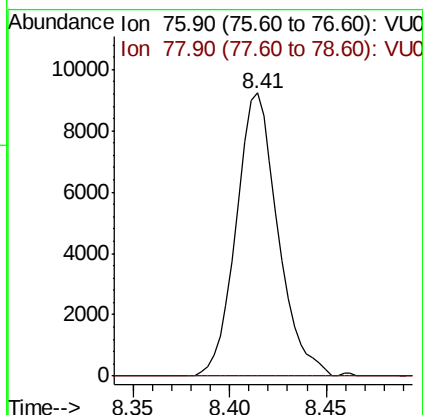
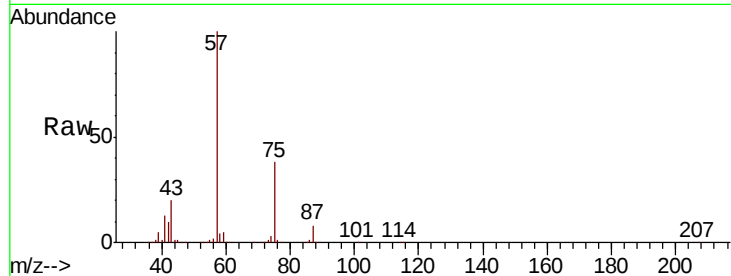




#57
 1,3-Dichloropropane
 Concen: 2.058 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028373.D
 Acq: 28 Nov 2018 18:08

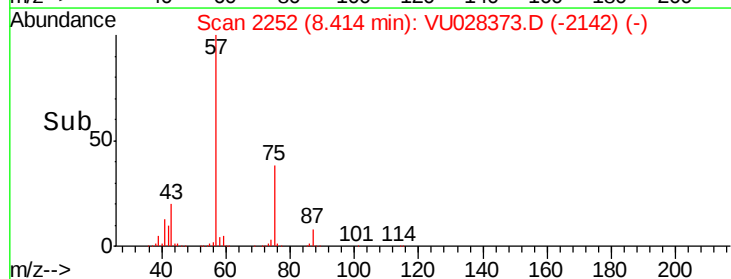
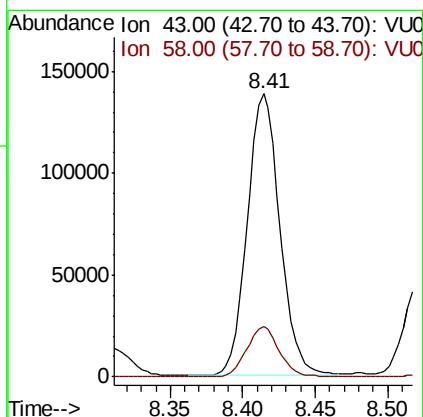
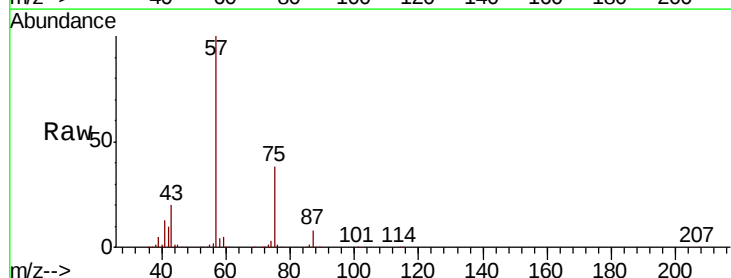
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#02

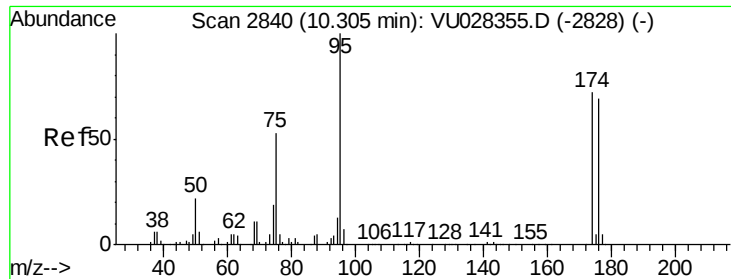
Tot Ion: 76 Resp: 13842
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 39.463 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.05 min
 Lab File: VU028373.D
 Acq: 28 Nov 2018 18:08

Tgt Ion: 43 Resp: 217898
 Ion Ratio Lower Upper
 43 100
 58 18.0 25.5 76.5#

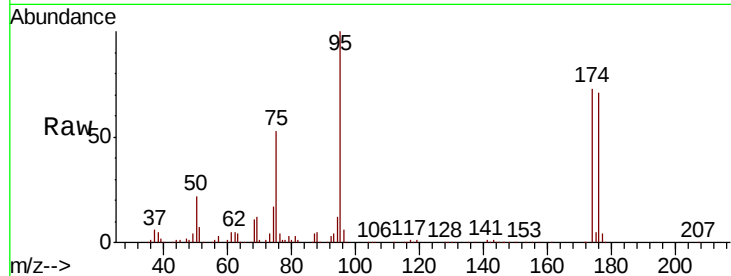




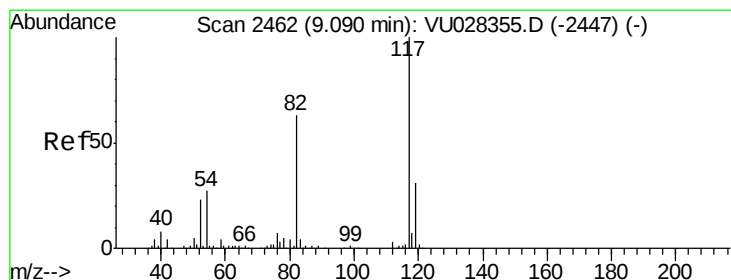
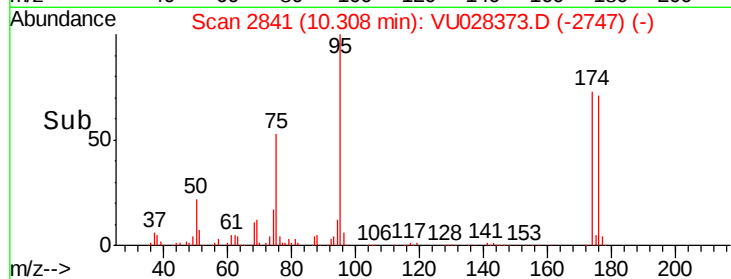
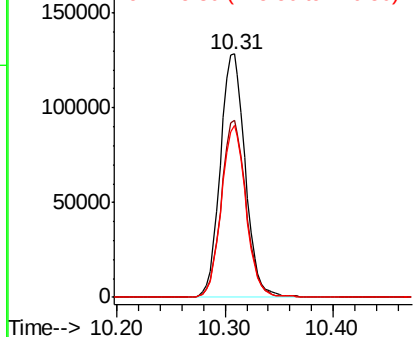
#62
4-Bromofluorobenzene
Concen: 45.535 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#02

Tot Ion: 95 Resp: 206133
Ion Ratio Lower Upper
95 100
174 72.7 0.0 145.4
176 70.1 0.0 140.8

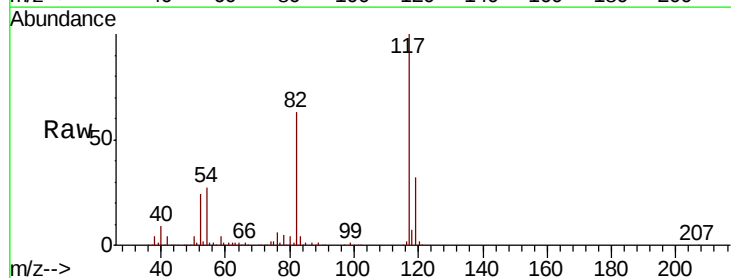


Abundance Ion 94.90 (94.60 to 95.60): VU0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

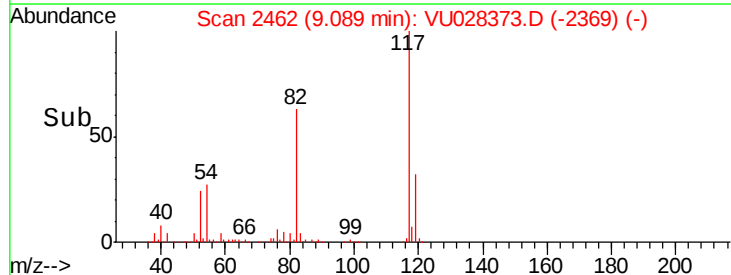
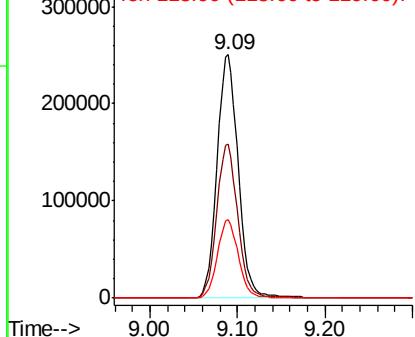


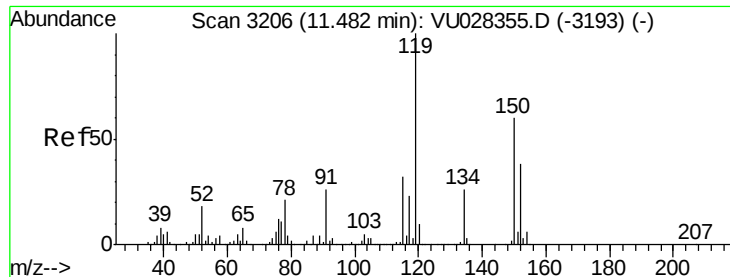
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

Tgt Ion: 117 Resp: 421080
Ion Ratio Lower Upper
117 100
82 63.1 50.3 75.5
119 32.1 24.8 37.2



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#02

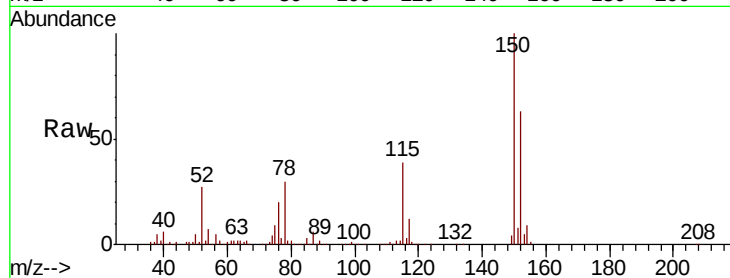
Tot Ion:152 Resp: 171340

Ion Ratio Lower Upper

152 100

115 61.1 45.0 134.8

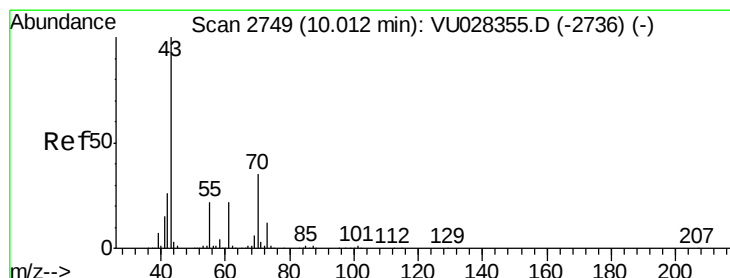
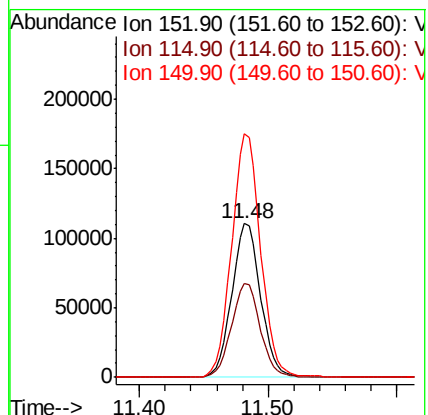
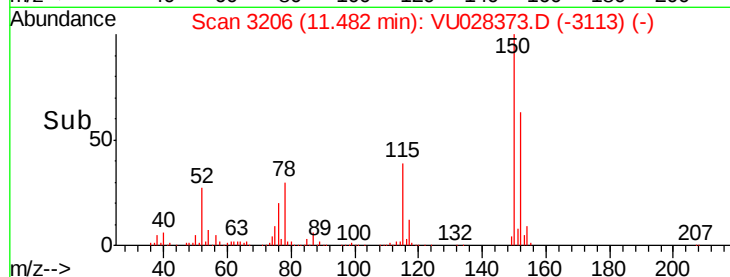
150 158.8 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.898 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Tgt Ion: 43 Resp: 24200

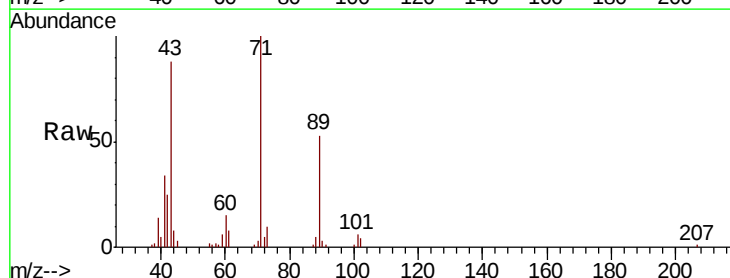
Ion Ratio Lower Upper

43 100

70 1.8 28.4 42.6#

55 1.9 18.0 27.0#

61 9.0 17.6 26.4#

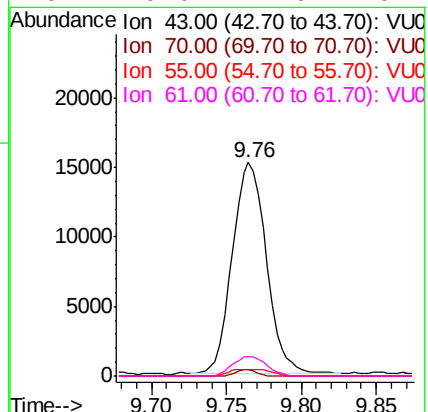
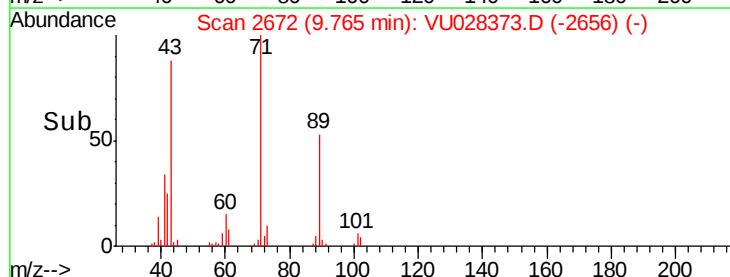


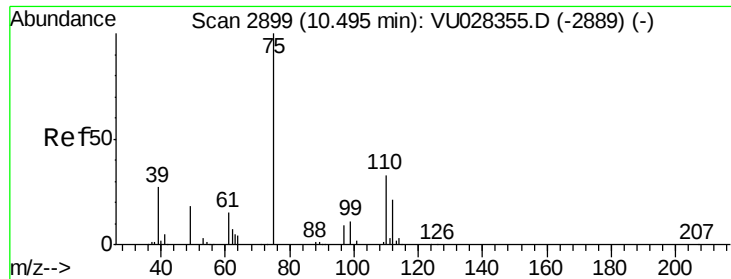
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 23.450 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028373.D

Acq: 28 Nov 2018 18:08

Instrument :

MSVOA_U

ClientSampleId :

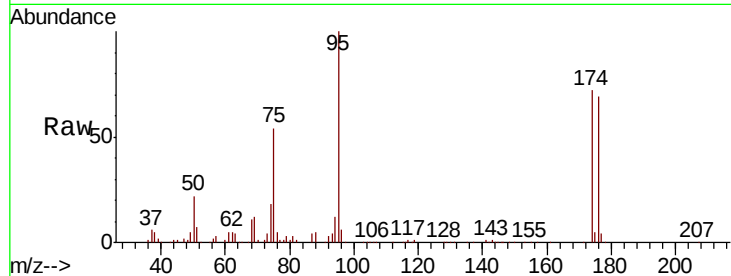
PB115109ZHE#02

Tot Ion: 75 Resp: 111422

Ion Ratio Lower Upper

75 100

77 1.1 22.4 67.0#



Abundance Ion 74.90 (74.60 to 75.60): VU028373.D (-2840) (-)

Ion 77.00 (76.70 to 77.70): VU028373.D (-2840) (-)

10.30

60000

40000

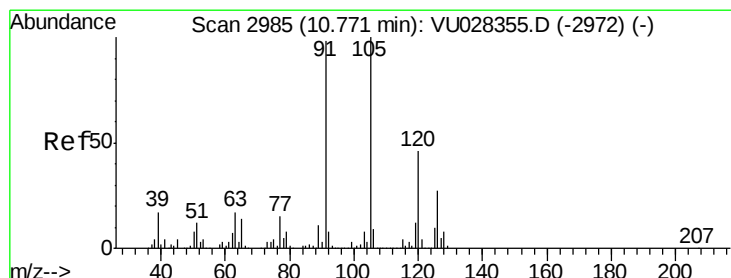
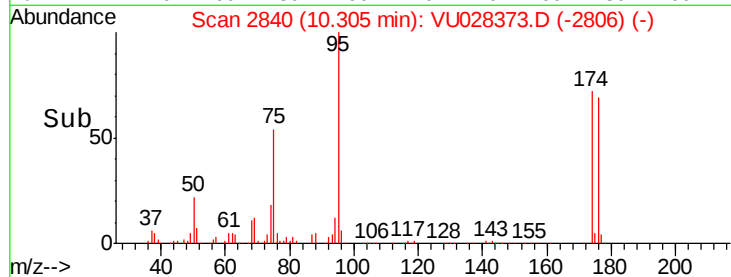
20000

0

Time-->

10.30

10.40



#80

1,3,5-Trimethylbenzene

Concen: 0.821 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028373.D

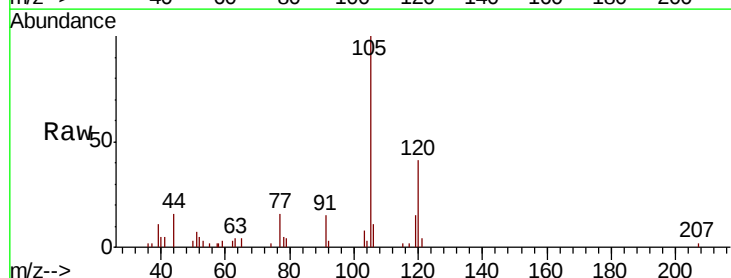
Acq: 28 Nov 2018 18:08

Tgt Ion: 105 Resp: 9221

Ion Ratio Lower Upper

105 100

120 44.7 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VU028373.D (-2985) (-)

Ion 120.00 (119.70 to 120.70): VU028373.D (-2985) (-)

10.77

6000

4000

2000

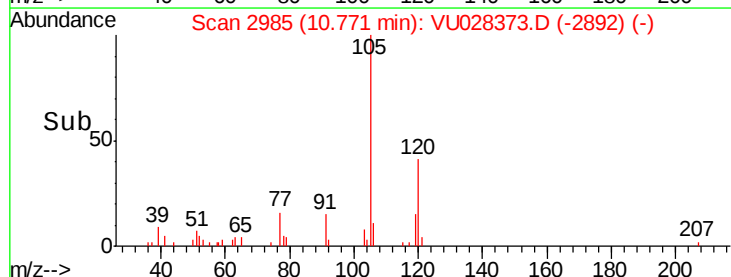
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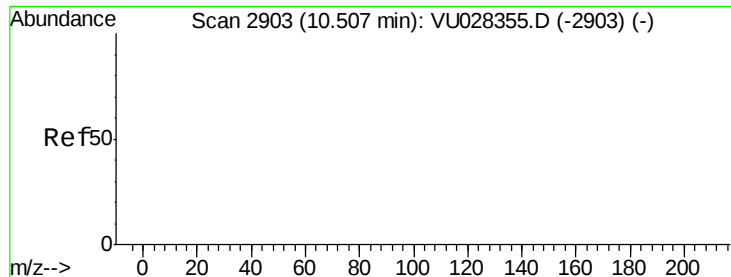
Time-->

10.70

10.75

10.80

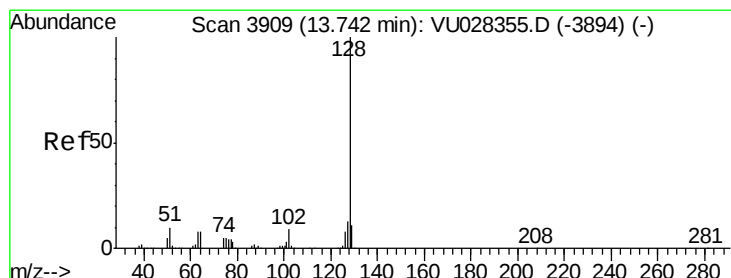
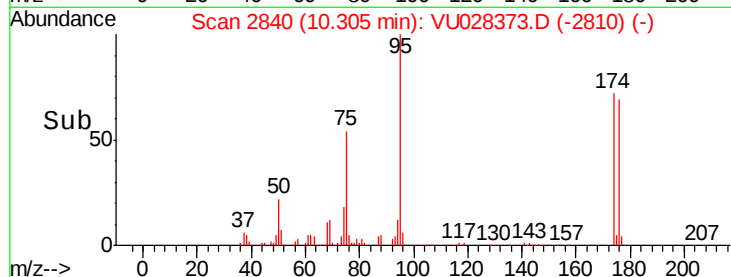
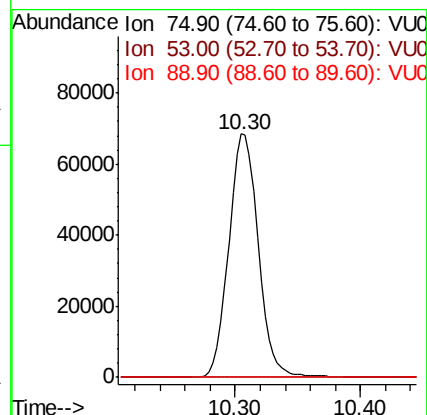
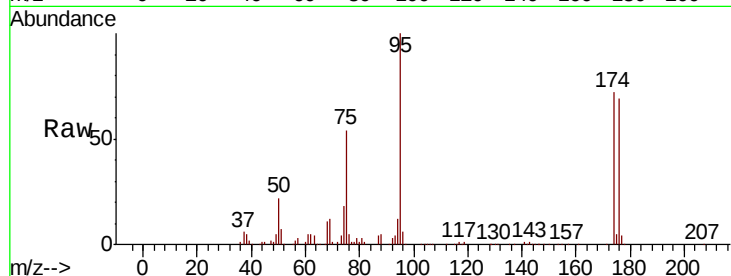




#81
trans-1,4-Dichloro-2-butene
Concen: 62.249 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.20 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#02

Tot Ion: 75 Resp: 111422
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0#



#95
Naphthalene
Concen: 2.880 ug/l
RT: 13.76 min Scan# 3915
Delta R.T. 0.02 min
Lab File: VU028373.D
Acq: 28 Nov 2018 18:08

Tgt Ion: 128 Resp: 684
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

