

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112818\
 Data File : VU028375.D
 Acq On : 28 Nov 2018 18:57
 Operator : MD/SY
 Sample : PB115109ZHE#04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#04

Quant Time: Nov 29 06:19:34 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	248179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	467114	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	423913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	166496	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	219433	52.90	ug/l	0.00
Spiked Amount			Recovery	=	105.80%	
35) Dibromofluoromethane	4.88	113	153490	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
50) Toluene-d8	7.56	98	608444	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	10.31	95	205082	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	

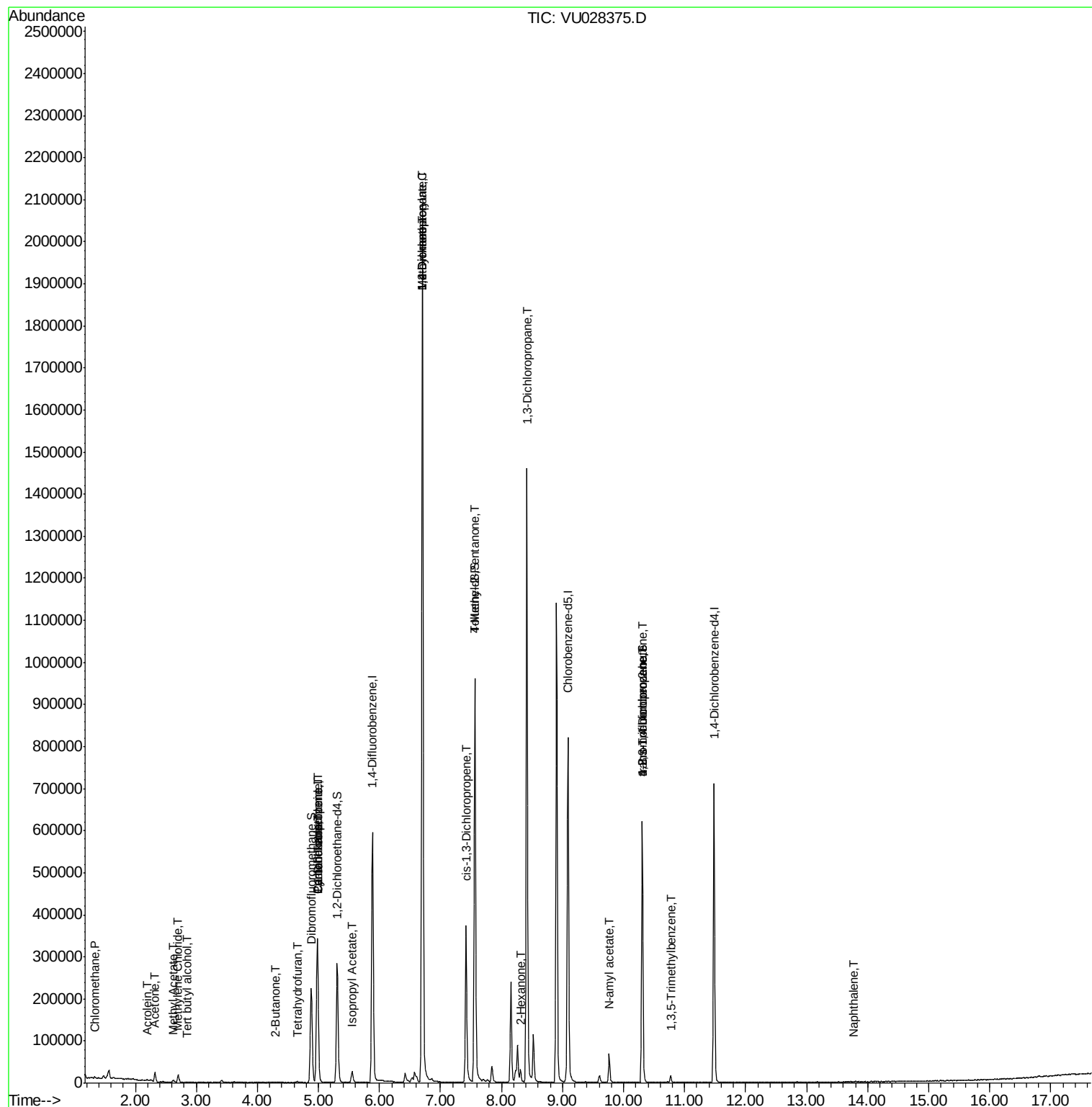
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	4232	0.656	ug/l	99
11) Tert butyl alcohol	2.84	59	860	0.913	ug/l #	72
13) Acrolein	2.19	56	245	0.292	ug/l #	39
16) Acetone	2.32	43	23966	9.446	ug/l	100
18) Methyl Acetate	2.62	43	8066	1.142	ug/l	93
20) Methylene Chloride	2.70	84	6886	1.853	ug/l #	87
25) 2-Butanone	4.29	43	2273	0.625	ug/l	94
29) Tetrahydrofuran	4.66	42	2081	0.881	ug/l #	71
31) Cyclohexane	4.98	56	6533	0.565	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	23058	4.511	ug/l #	50
38) Carbon Tetrachloride	4.98	117	25830	6.154	ug/l #	15
43) Isopropyl Acetate	5.55	43	31406	2.845	ug/l	99
45) 1,2-Dichloropropane	6.70	63	1946	0.439	ug/l #	43
48) Methyl methacrylate	6.70	41	182505	31.740	ug/l #	46
49) 1,4-Dioxane	6.70	88	240	2.613	ug/l #	1
51) 4-Methyl-2-Pentanone	7.56	43	14444	2.049	ug/l	90
54) cis-1,3-Dichloropropene	7.42	75	60525	9.328	ug/l #	60
57) 1,3-Dichloropropane	8.41	76	12922	1.942	ug/l #	43
59) 2-Hexanone	8.31	43	24034	4.401	ug/l #	27
74) N-amyl acetate	9.76	43	22742	2.803	ug/l #	54
76) 1,2,3-Trichloropropane	10.31	75	110987	24.038	ug/l #	33
80) 1,3,5-Trimethylbenzene	10.77	105	8991	0.824	ug/l	96
81) trans-1,4-Dichloro-2-buten	10.31	75	110987	63.810	ug/l #	100
95) Naphthalene	13.77	128	384	2.861	ug/l #	69

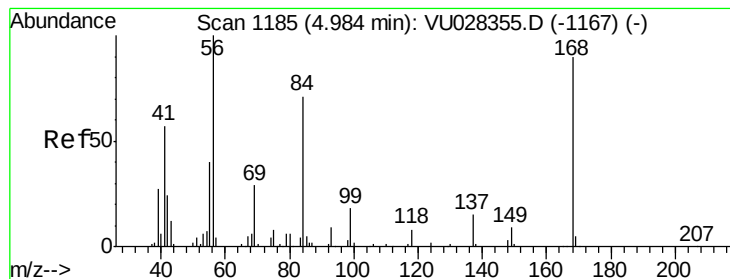
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU112818\
Data File : VU028375.D
Acq On : 28 Nov 2018 18:57
Operator : MD/SY
Sample : PB115109ZHE#04
Misc : 5.0mL/MSVOA U/WATER
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Instrument :
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Quant Time: Nov 29 06:19:34 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 29 01:04:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

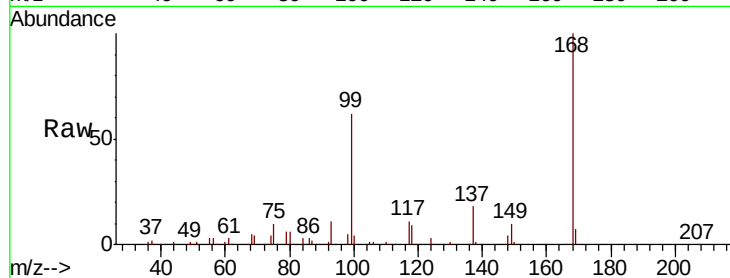
PB115109ZHE#04

Tot Ion:168 Resp: 248179

Ion Ratio Lower Upper

168 100

99 61.8 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028375.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028375.D (-1167) (-)

4.98

120000

100000

80000

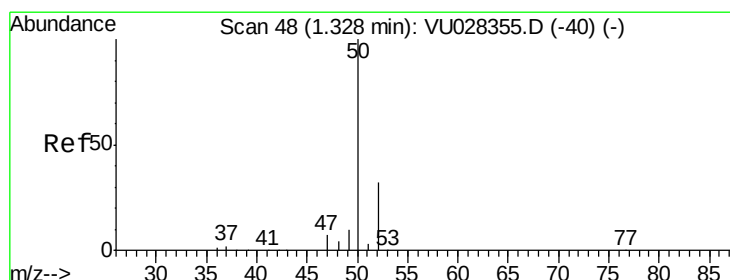
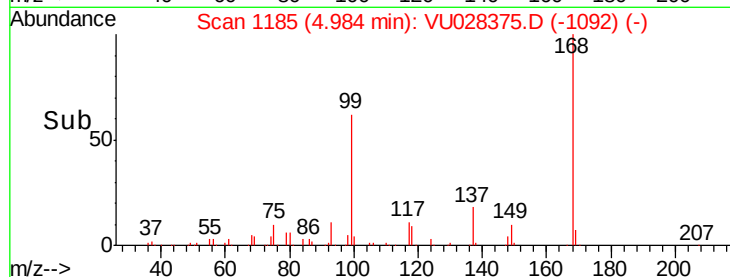
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.656 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028375.D

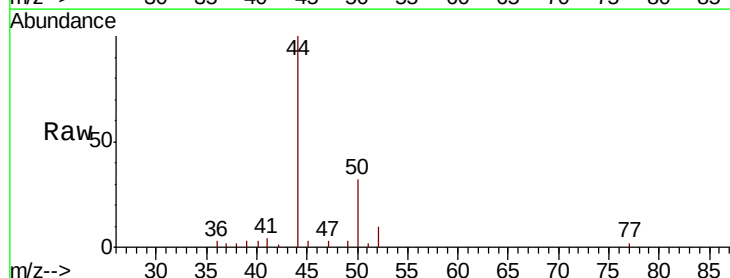
Acq: 28 Nov 2018 18:57

Tgt Ion: 50 Resp: 4232

Ion Ratio Lower Upper

50 100

52 31.0 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VU028375.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028375.D (-40) (-)

1.33

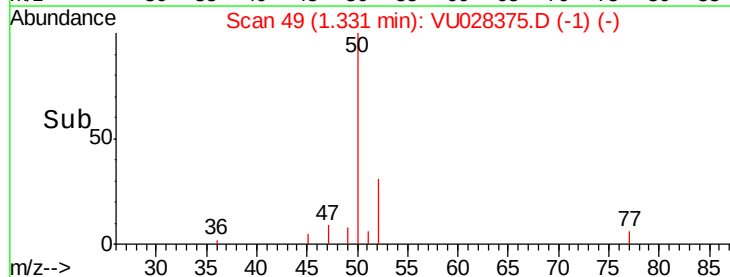
3000

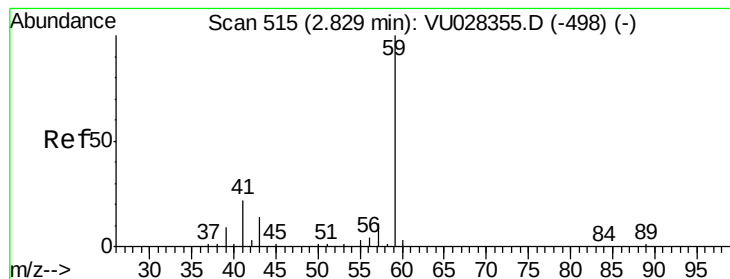
2000

1000

0

Time-->



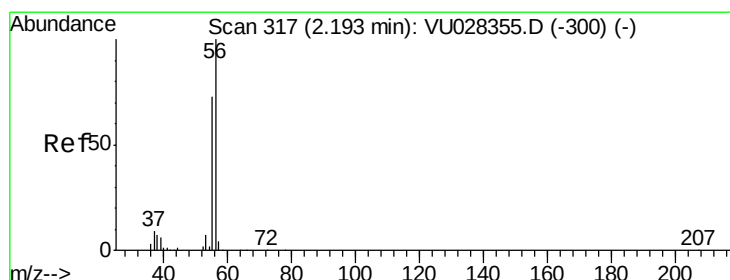
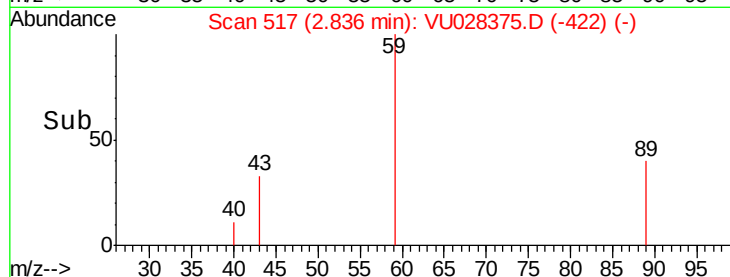
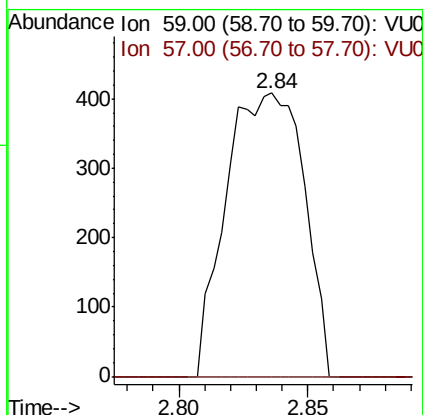
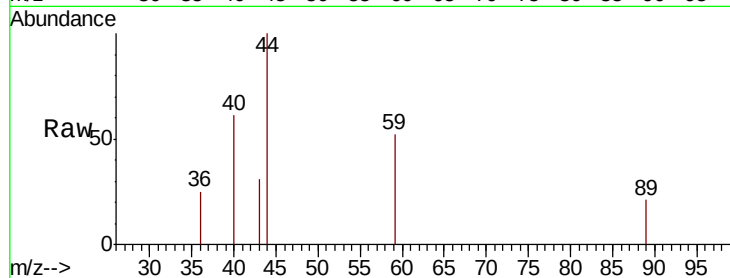


#11

Tert butyl alcohol
 Concen: 0.913 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#04

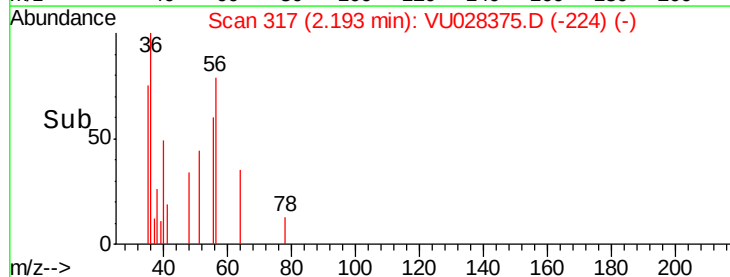
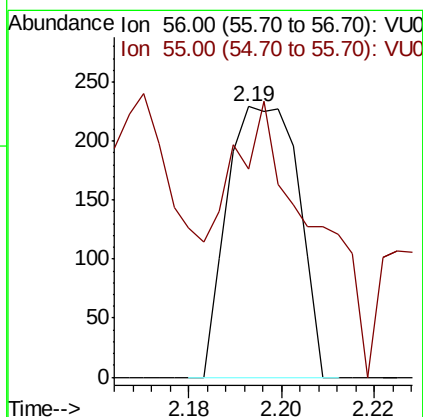
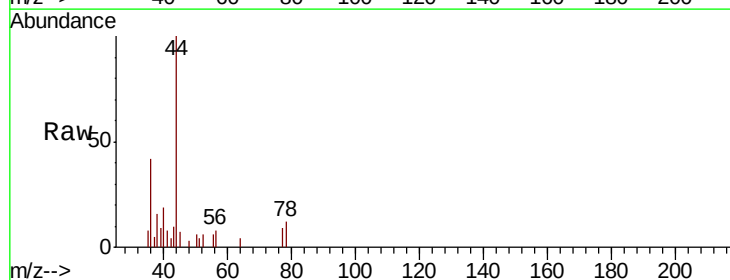
Tot Ion: 59 Resp: 860
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

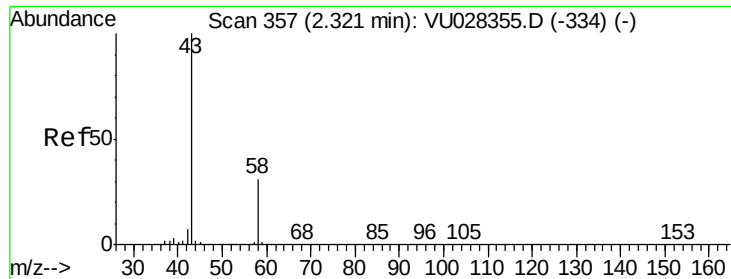


#13

Acrolein
 Concen: 0.292 ug/l
 RT: 2.19 min Scan# 317
 Delta R.T. 0.00 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

Tgt Ion: 56 Resp: 245
 Ion Ratio Lower Upper
 56 100
 55 121.2 56.6 85.0#





#16

Acetone

Concen: 9.446 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

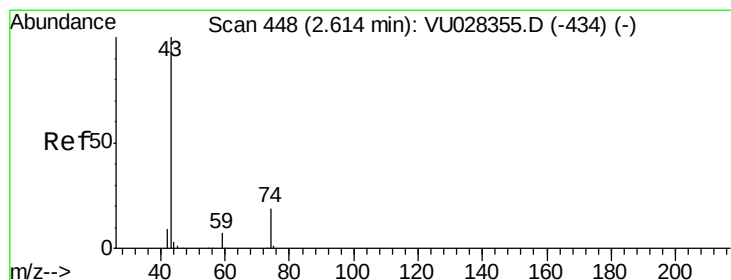
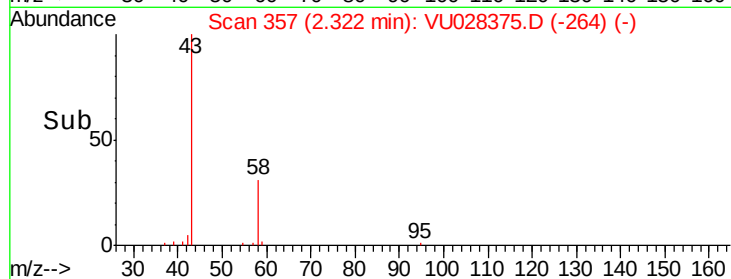
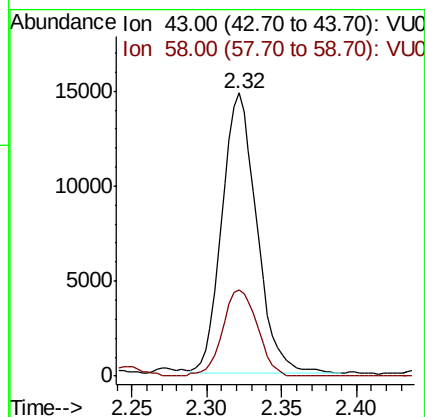
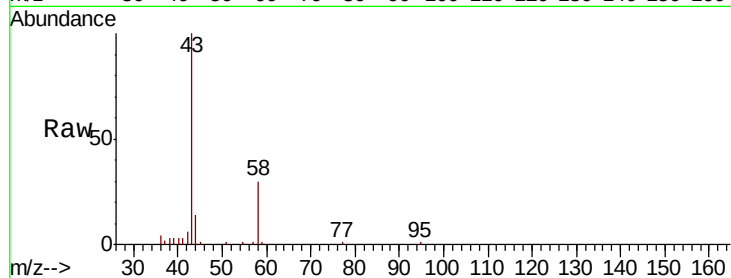
PB115109ZHE#04

Tot Ion: 43 Resp: 23966

Ion Ratio Lower Upper

43 100

58 30.7 24.4 36.6



#18

Methyl Acetate

Concen: 1.142 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU028375.D

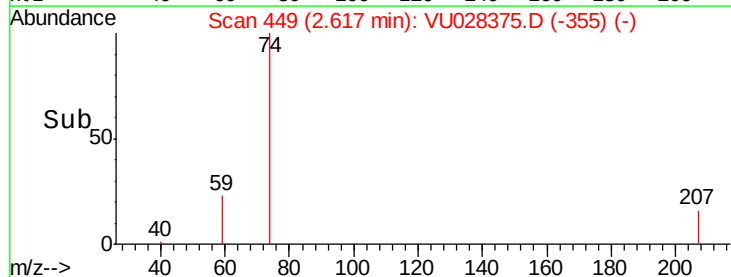
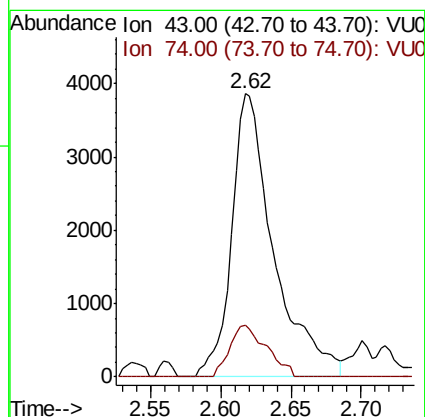
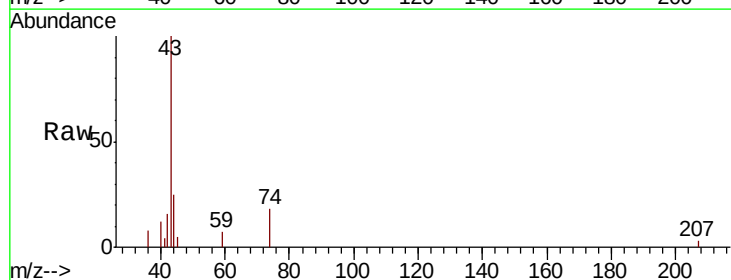
Acq: 28 Nov 2018 18:57

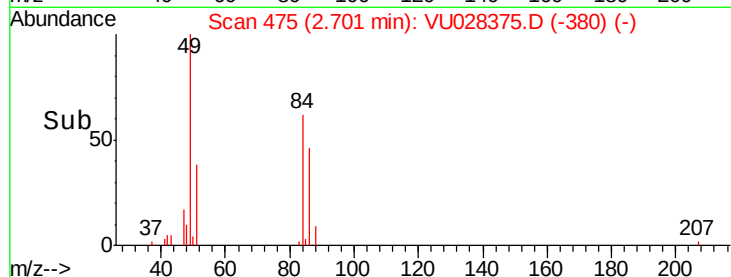
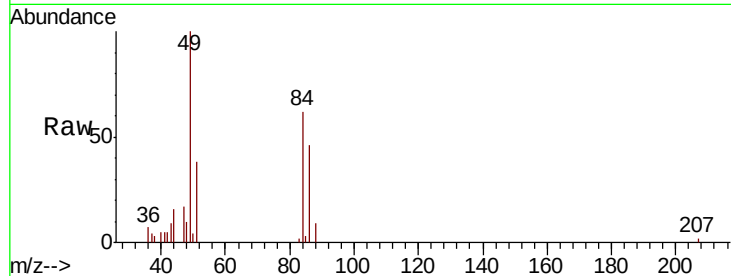
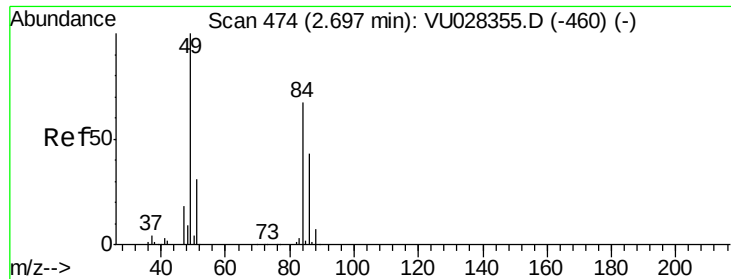
Tgt Ion: 43 Resp: 8066

Ion Ratio Lower Upper

43 100

74 15.9 15.3 22.9

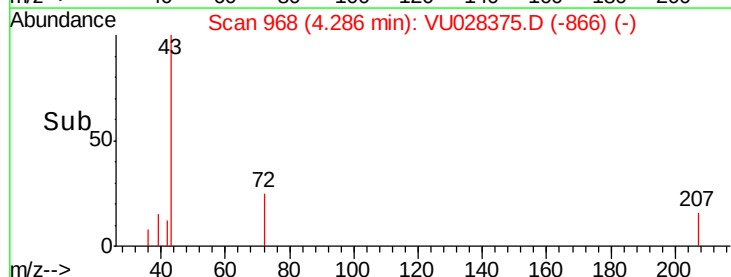
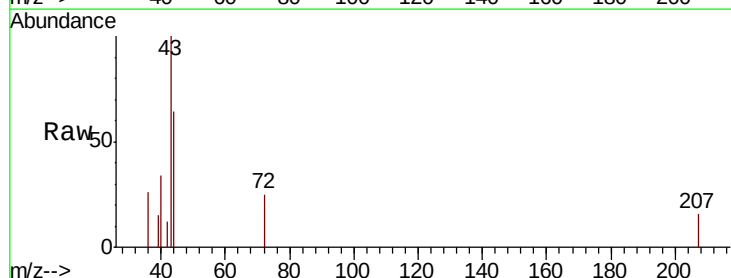
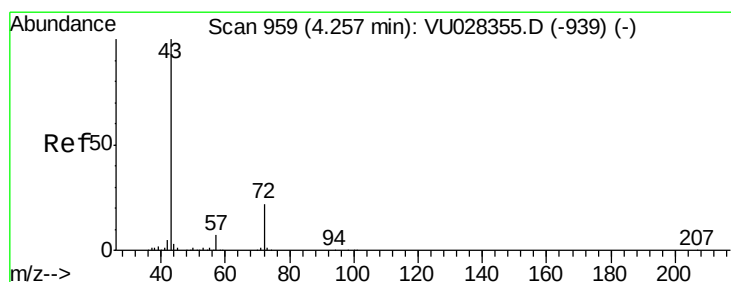
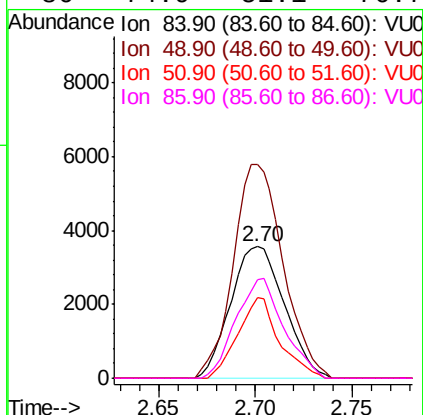




#20
Methylene Chloride
Concen: 1.853 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

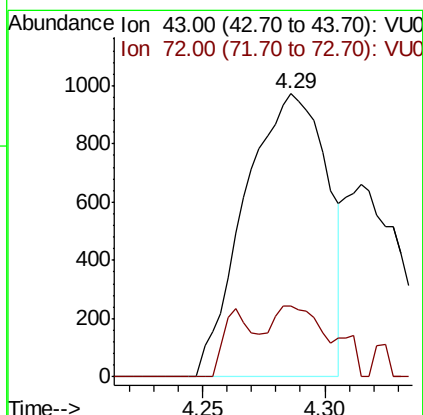
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#04

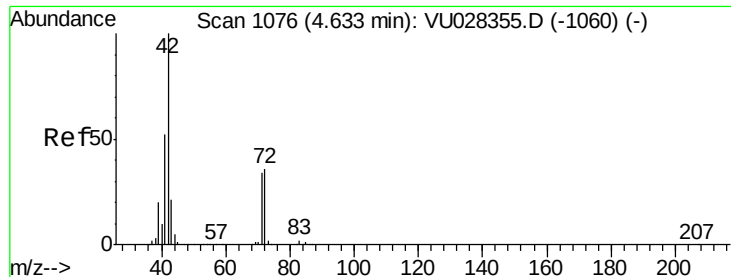
Tot Ion: 84 Resp: 6886
Ion Ratio Lower Upper
84 100
49 162.5 120.0 180.0
51 61.3 36.9 55.3#
86 74.9 51.1 76.7



#25
2-Butanone
Concen: 0.625 ug/l
RT: 4.29 min Scan# 968
Delta R.T. 0.03 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

Tgt Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
72 25.0 17.7 26.5





#29

Tetrahydrofuran

Concen: 0.881 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#04

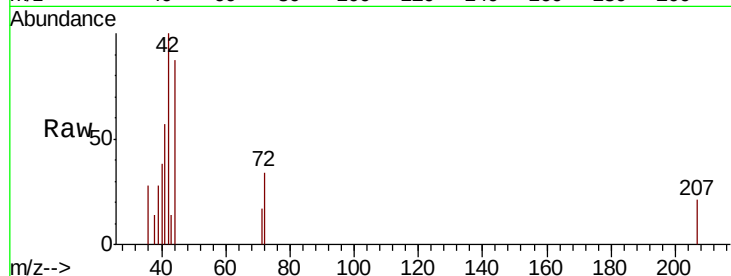
Tot Ion: 42 Resp: 2081

Ion Ratio Lower Upper

42 100

72 27.6 29.5 44.3#

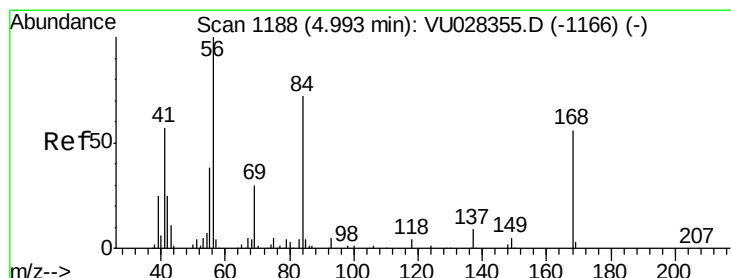
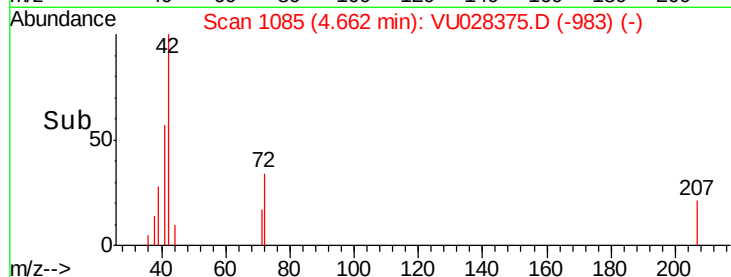
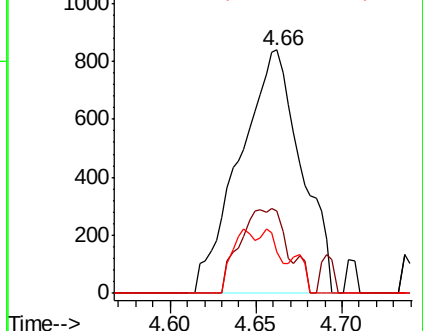
71 9.9 27.7 41.5#



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: 0.565 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

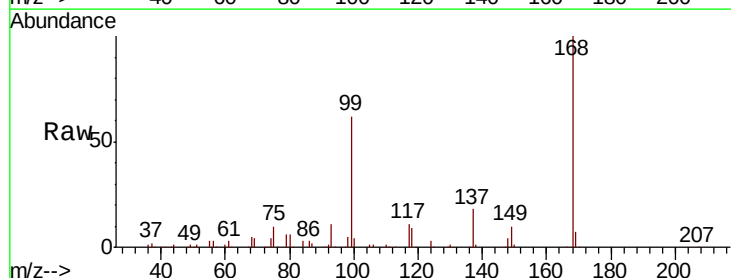
Tgt Ion: 56 Resp: 6533

Ion Ratio Lower Upper

56 100

69 161.4 23.7 35.5#

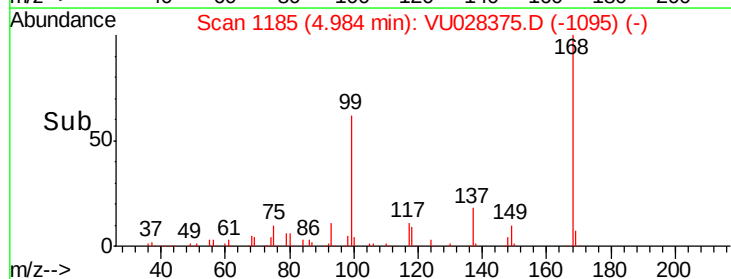
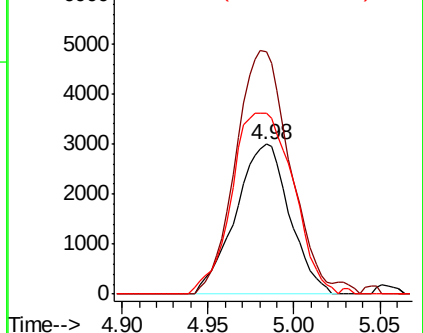
84 120.5 57.3 85.9#

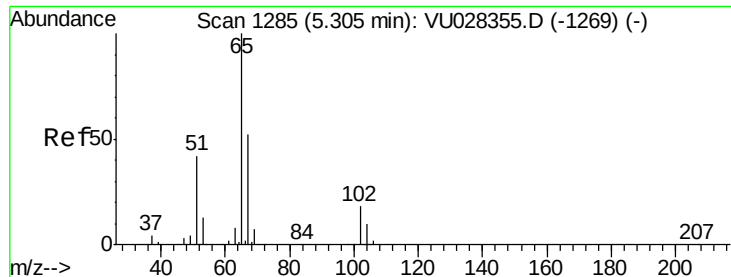


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

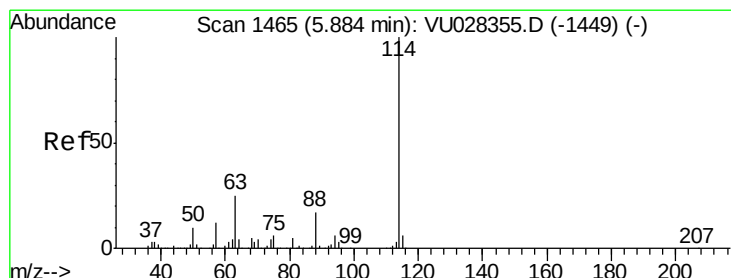
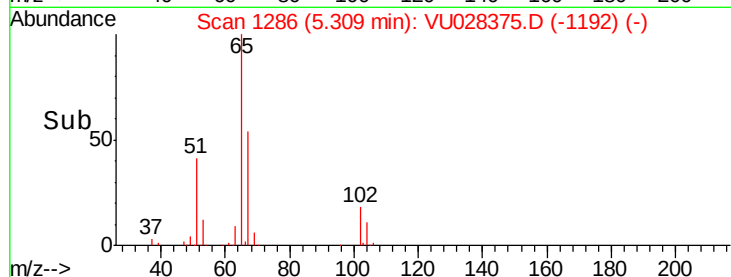
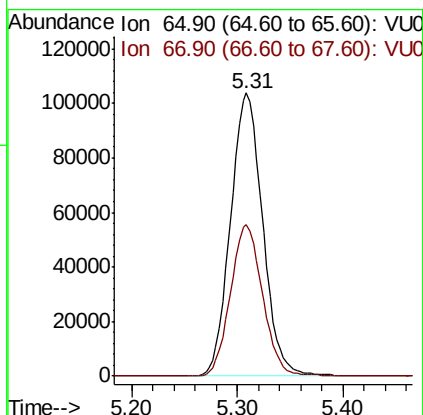
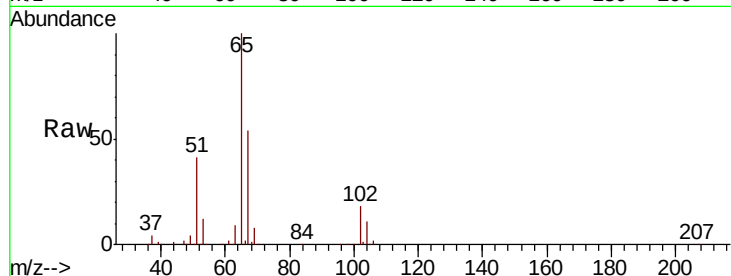




#33
 1,2-Dichloroethane-d4
 Concen: 52.905 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

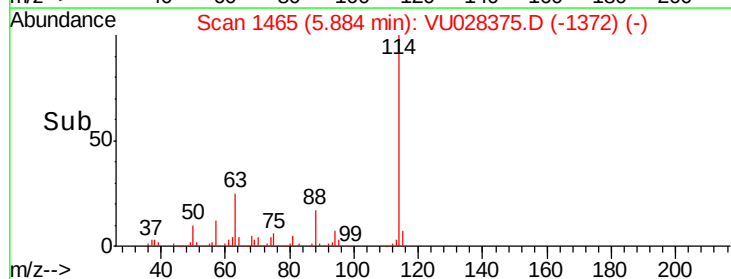
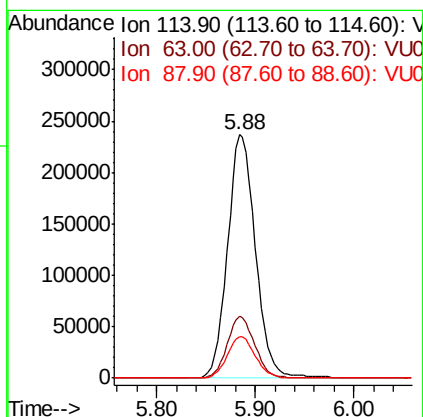
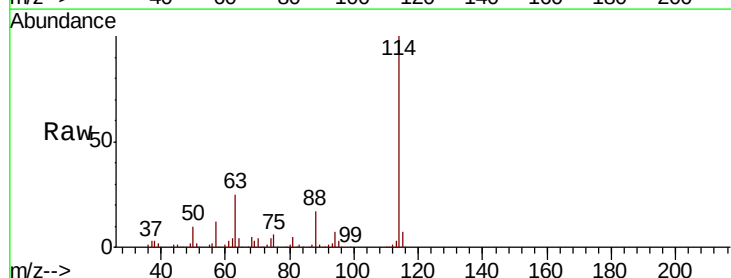
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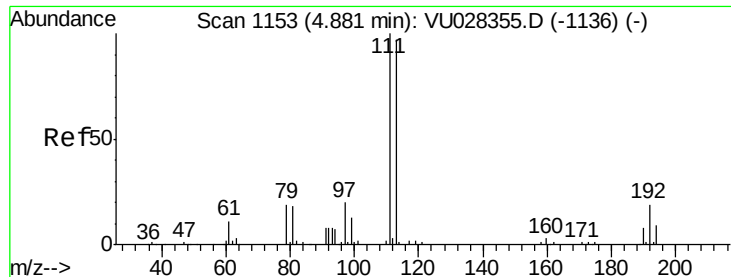
Tot Ion: 65 Resp: 219433
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

Tgt Ion: 114 Resp: 467114
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 50.0
 88 17.2 0.0 34.4

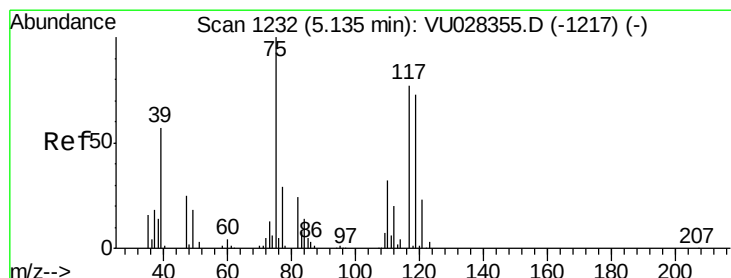
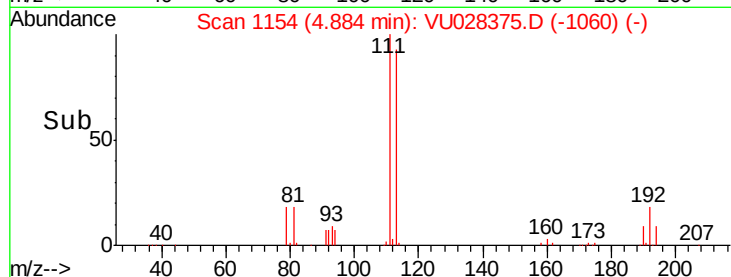
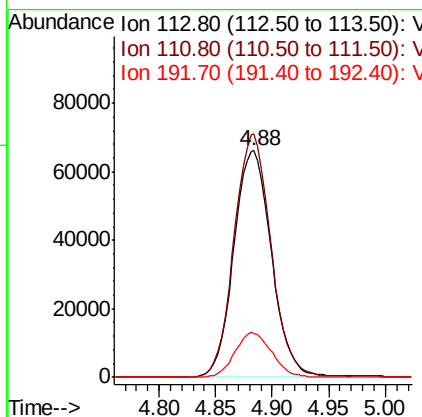
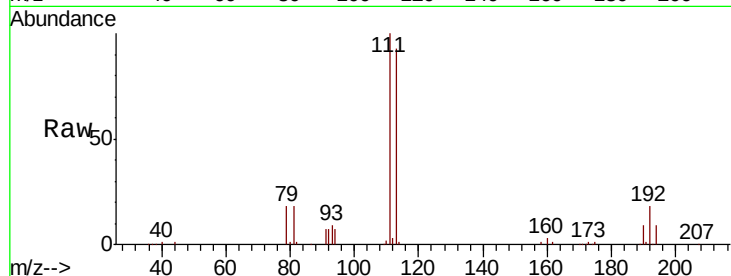




#35
Dibromofluoromethane
Concen: 49.415 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. 0.00 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

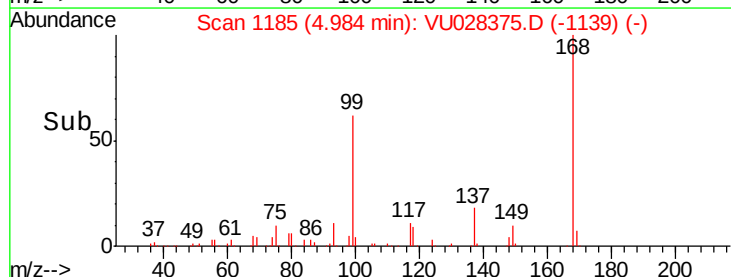
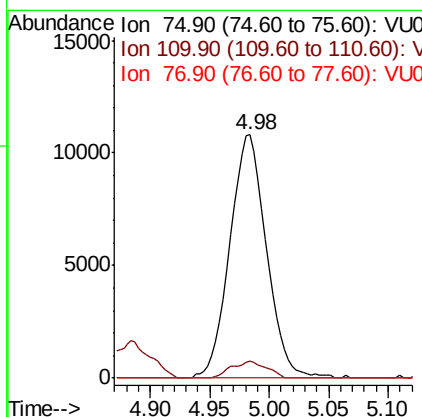
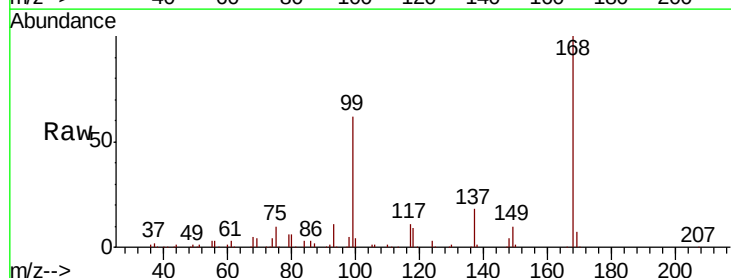
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#04

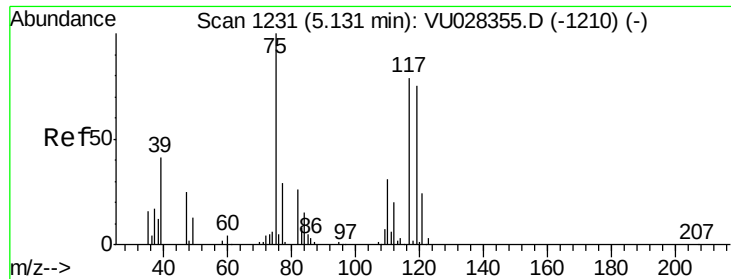
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.1	82.9	124.3
192	19.3	15.4	23.0



#36
1,1-Dichloropropene
Concen: 4.511 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.7	15.8	47.4#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.154 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#04

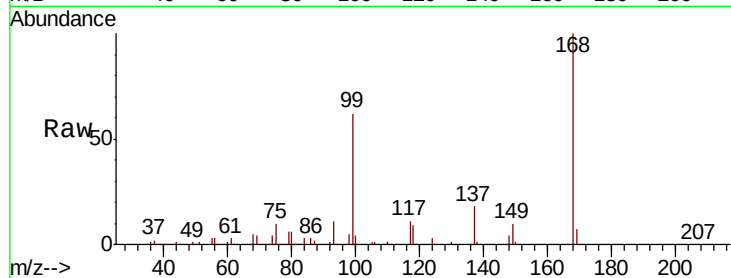
Tot Ion:117 Resp: 25830

Ion Ratio Lower Upper

117 100

119 3.8 76.3 114.5#

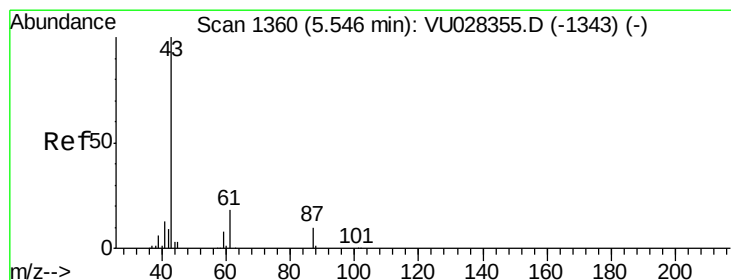
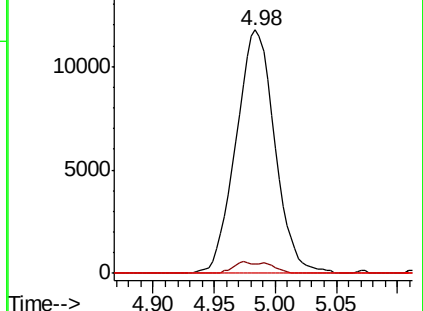
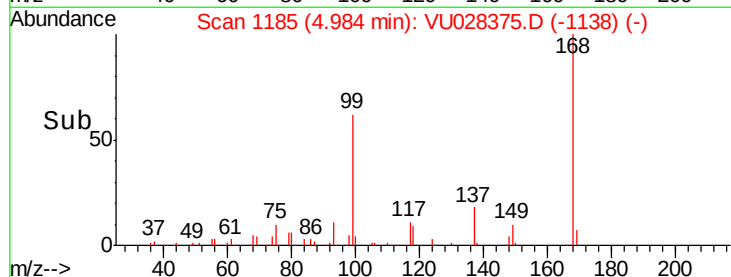
121 0.0 24.7 37.1#



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: 2.845 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

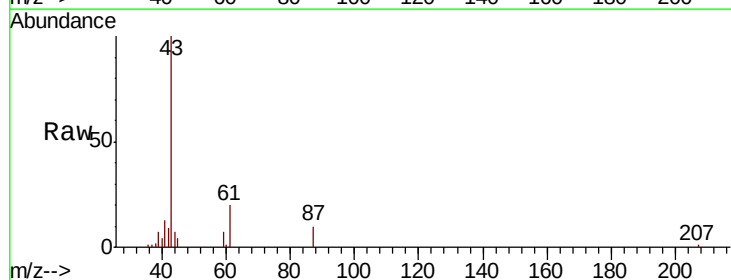
Tgt Ion: 43 Resp: 31406

Ion Ratio Lower Upper

43 100

61 18.8 14.5 21.7

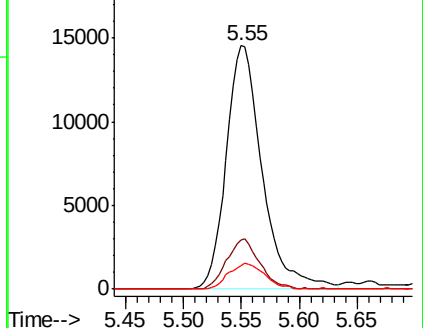
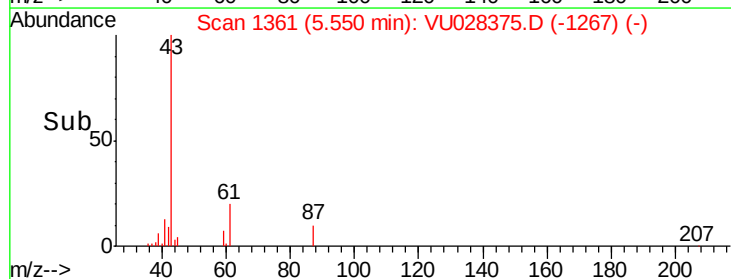
87 10.6 8.4 12.6

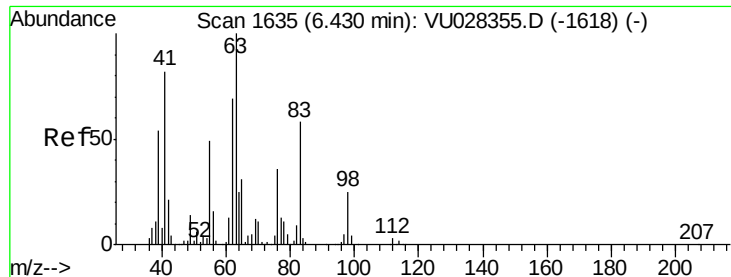


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.439 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.27 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

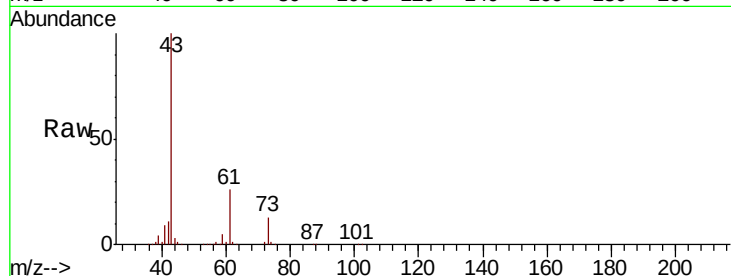
PB115109ZHE#04

Tot Ion: 63 Resp: 1946

Ion Ratio Lower Upper

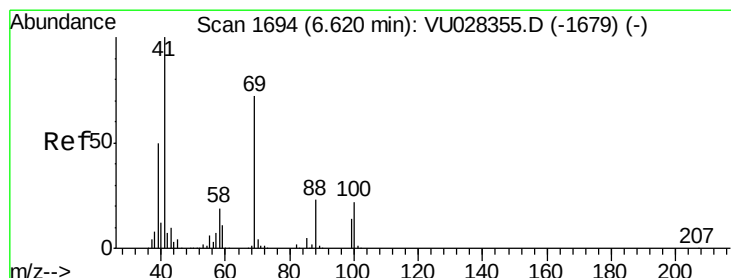
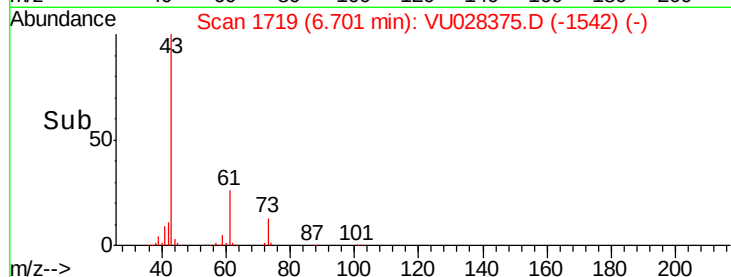
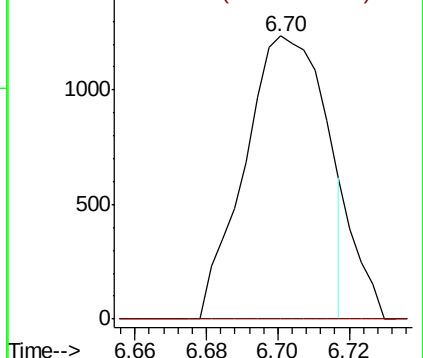
63 100

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: 31.740 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

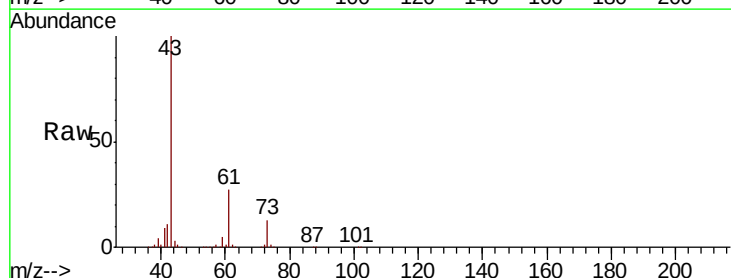
Tgt Ion: 41 Resp: 182505

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.4#

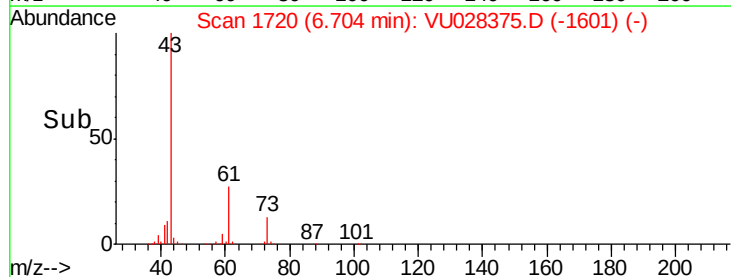
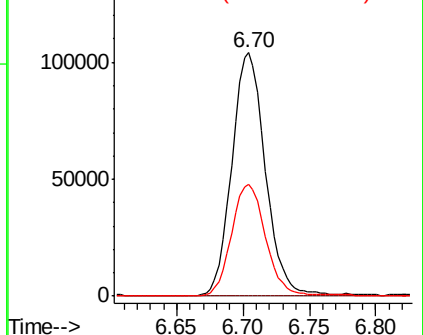
39 47.5 40.5 60.7

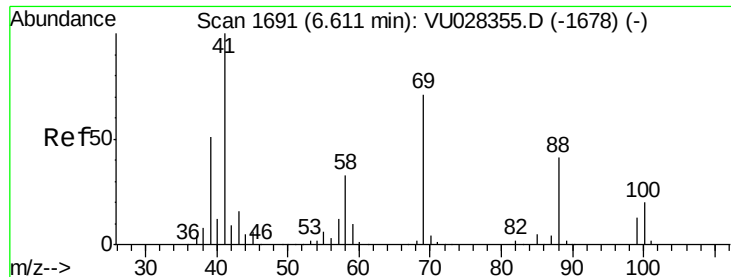


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#49

1,4-Dioxane

Concen: 2.613 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.09 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#04

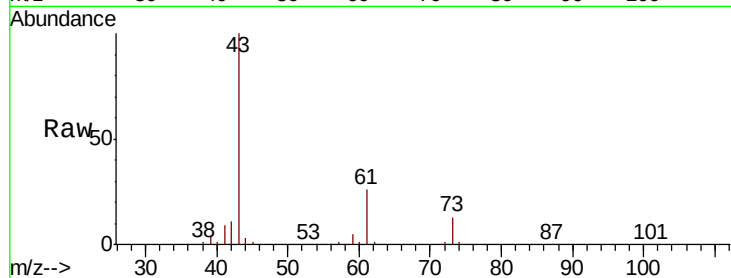
Tot Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 862667.5 32.6 48.8#

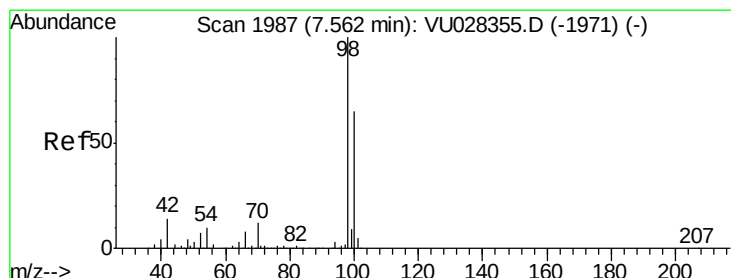
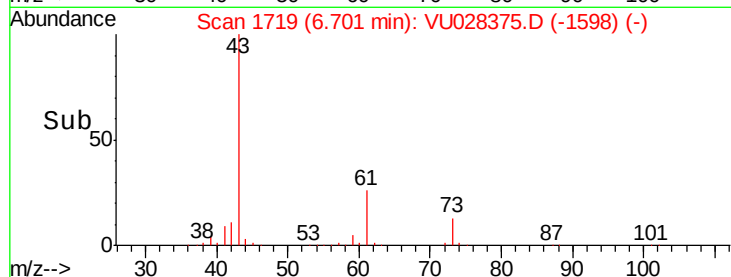
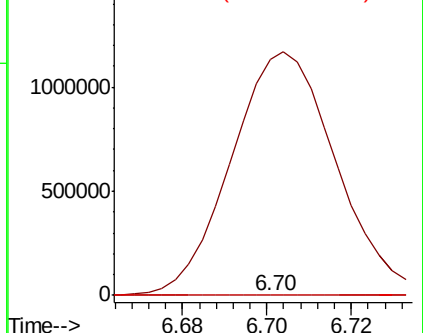
58 3251.3 68.7 103.1#



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: 48.980 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU028375.D

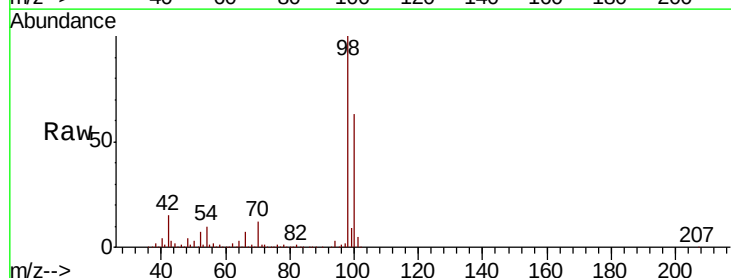
Acq: 28 Nov 2018 18:57

Tgt Ion: 98 Resp: 608444

Ion Ratio Lower Upper

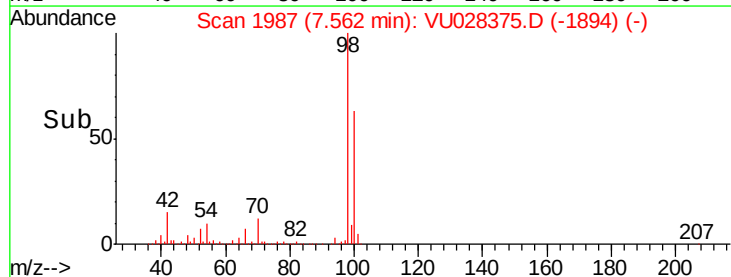
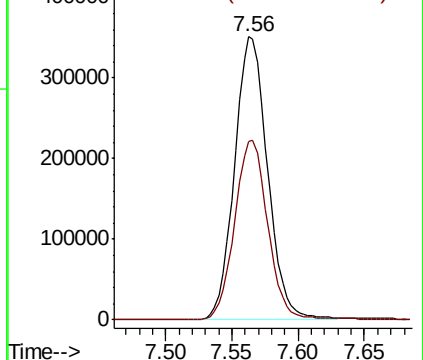
98 100

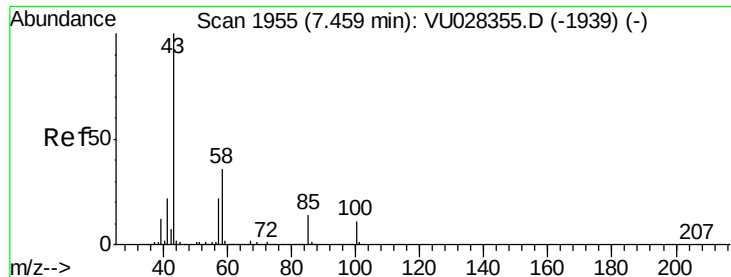
100 64.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 2.049 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

Instrument :

MSVOA_U

ClientSampleId :

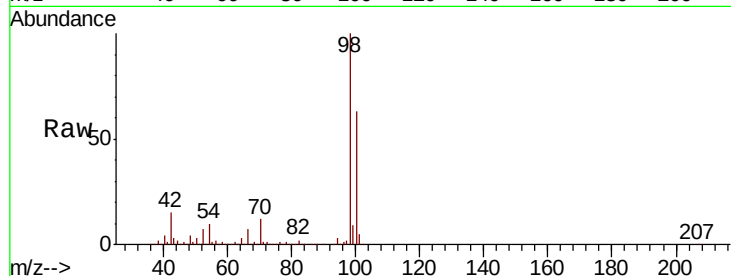
PB115109ZHE#04

Tot Ion: 43 Resp: 14444

Ion Ratio Lower Upper

43 100

58 41.8 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

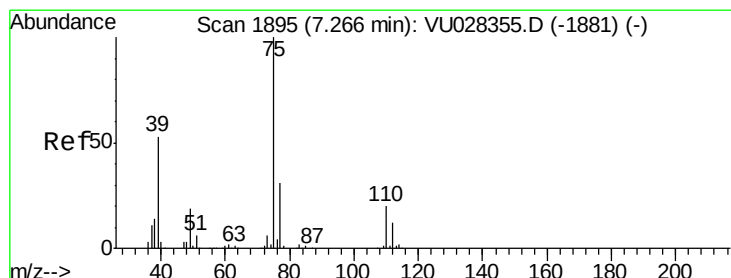
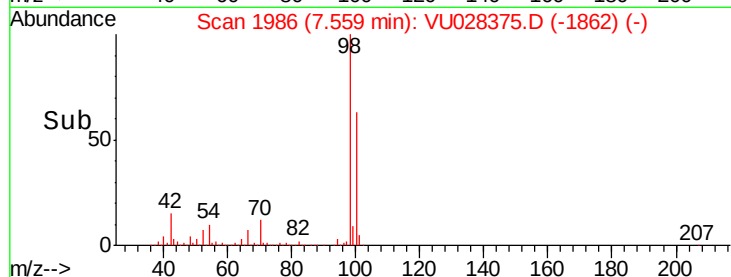
0

Time-->

7.50

7.55

7.60



#54

cis-1,3-Dichloropropene

Concen: 9.328 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028375.D

Acq: 28 Nov 2018 18:57

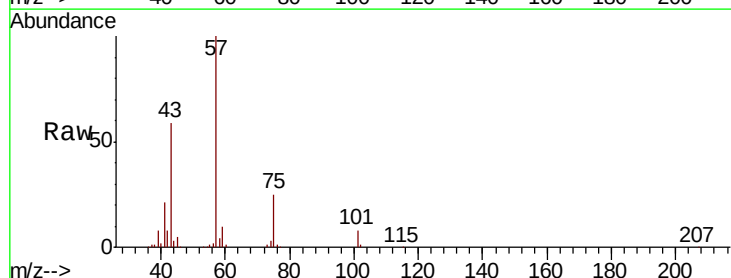
Tgt Ion: 75 Resp: 60525

Ion Ratio Lower Upper

75 100

77 0.4 24.9 37.3#

39 31.8 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

7.42

40000

30000

20000

10000

0

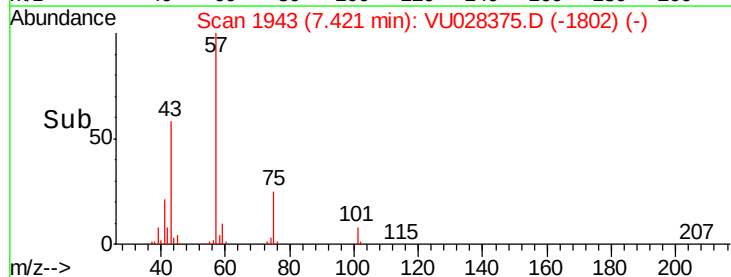
Time-->

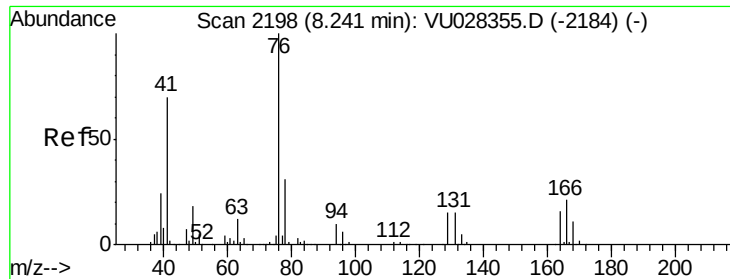
7.35

7.40

7.45

7.50

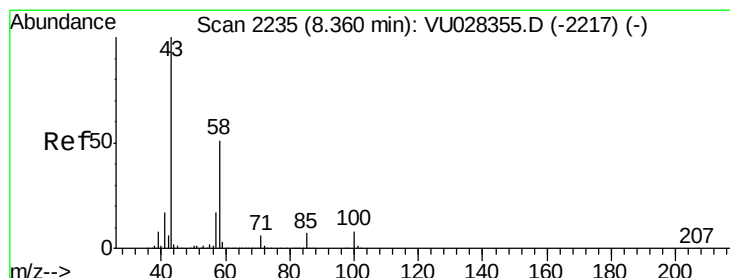
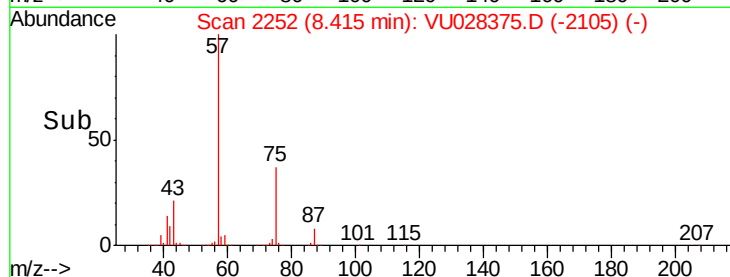
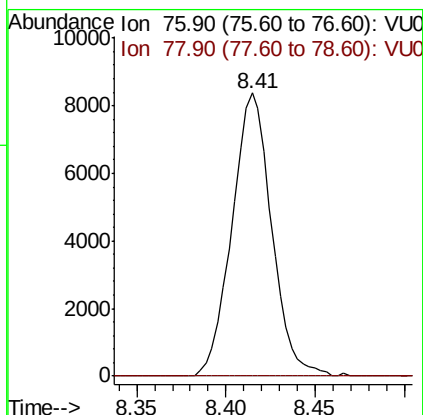
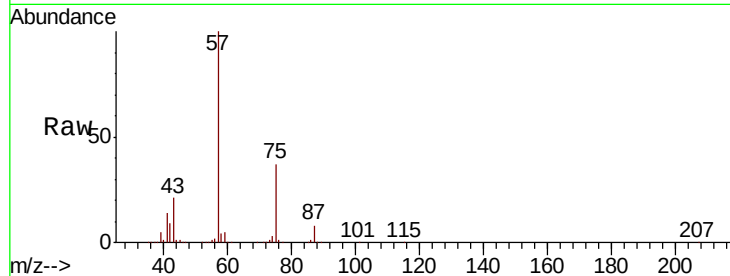




#57
 1,3-Dichloropropane
 Concen: 1.942 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

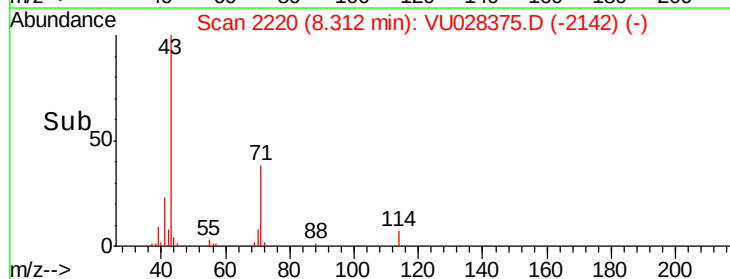
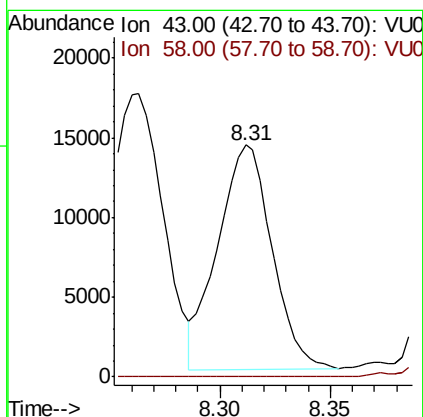
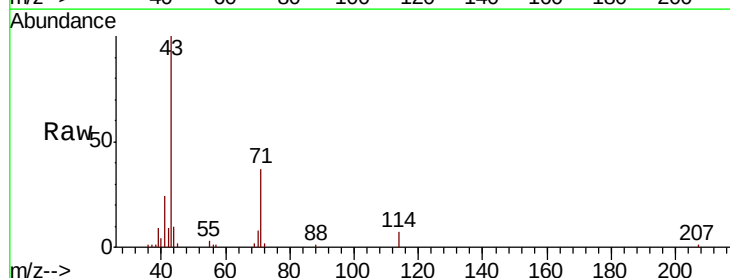
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#04

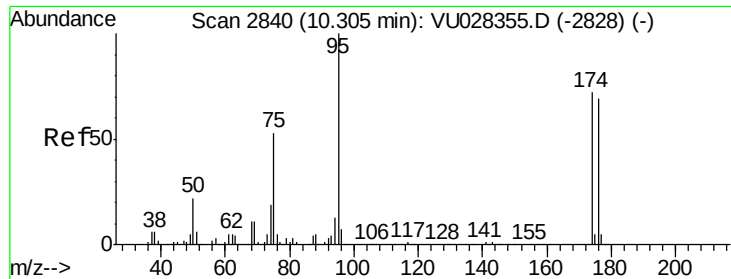
Tot Ion: 76 Resp: 12922
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 4.401 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

Tgt Ion: 43 Resp: 24034
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.5 76.5#

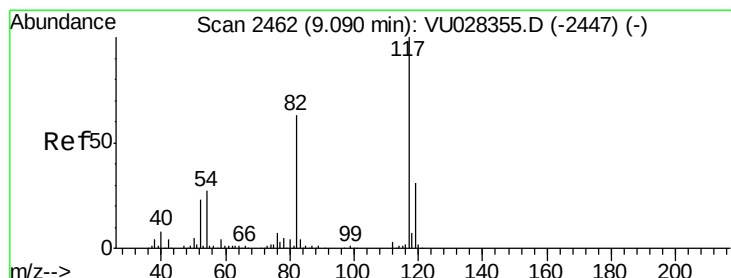
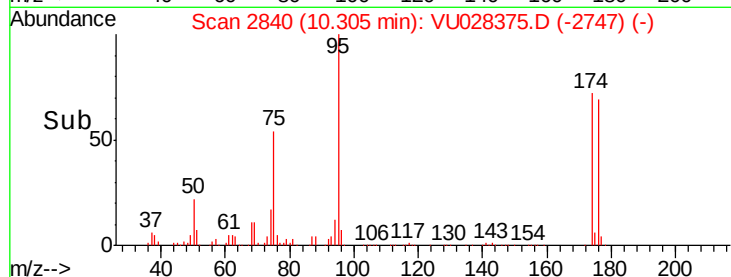
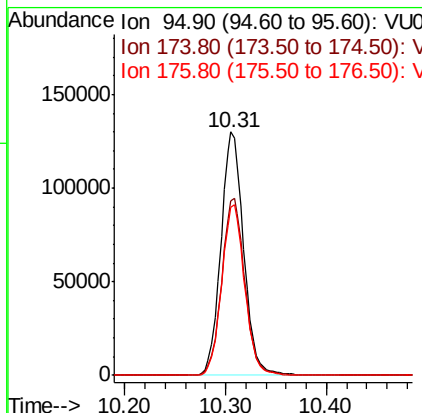
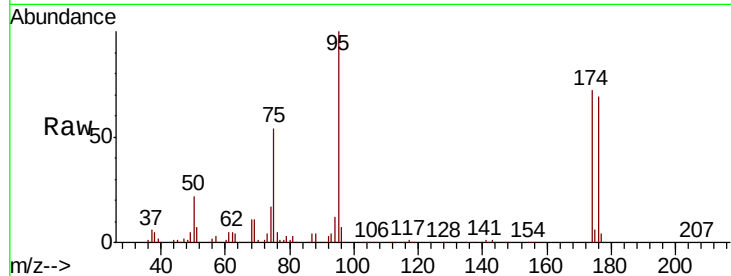




#62
 4-Bromofluorobenzene
 Concen: 45.804 ug/l
 RT: 10.31 min Scan# 2840
 Delta R.T. 0.00 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

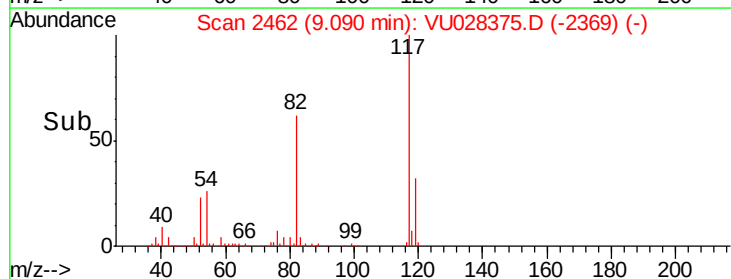
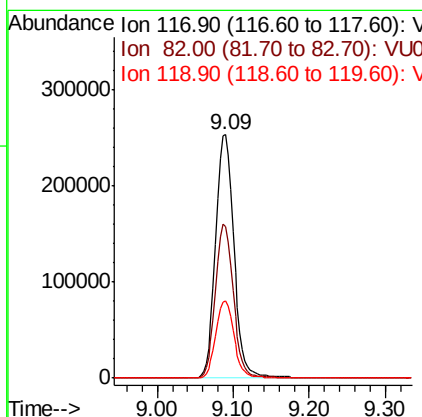
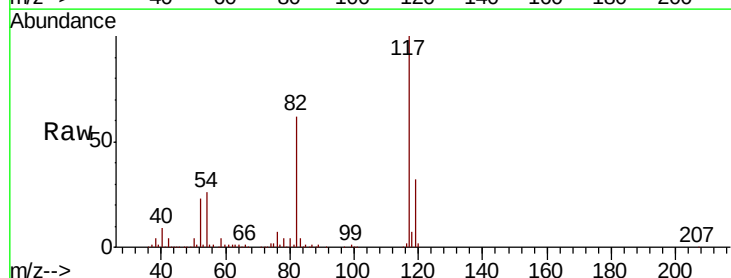
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#04

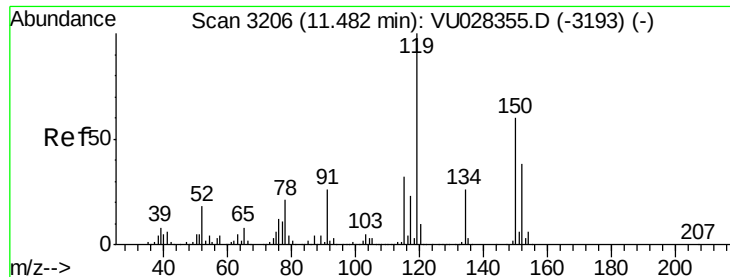
Tot Ion	95	Resp	205082
Ion Ratio	Lower	Upper	
95	100		
174	73.8	0.0	145.4
176	70.7	0.0	140.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

Tgt Ion	117	Resp	423913
Ion Ratio	Lower	Upper	
117	100		
82	62.4	50.3	75.5
119	31.8	24.8	37.2



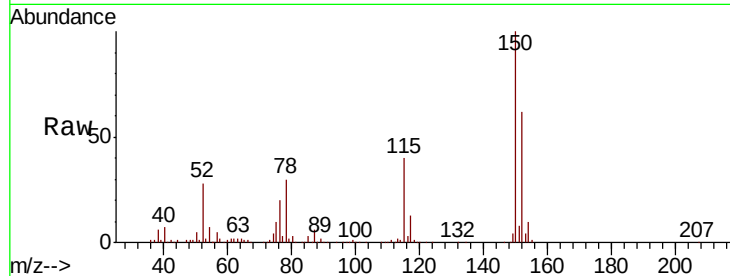


#72

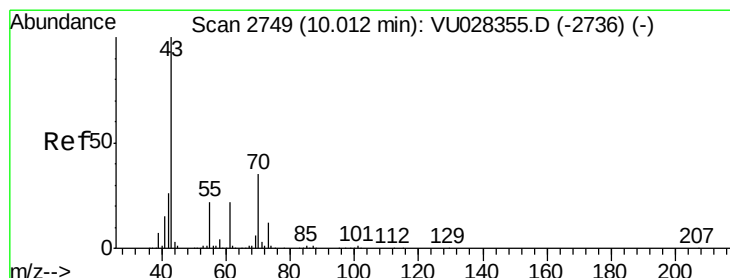
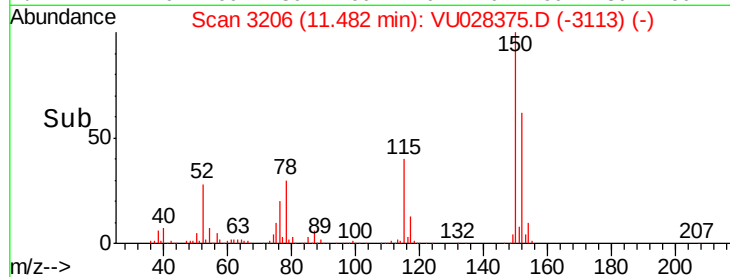
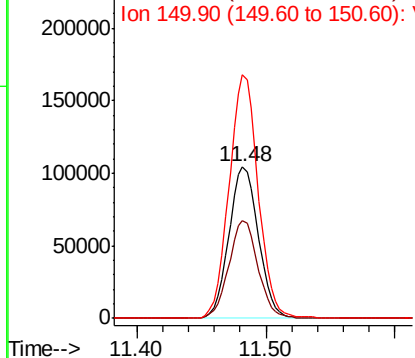
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#04

Tot Ion:152 Resp: 166496
Ion Ratio Lower Upper
152 100
115 63.4 45.0 134.8
150 157.6 0.0 349.2



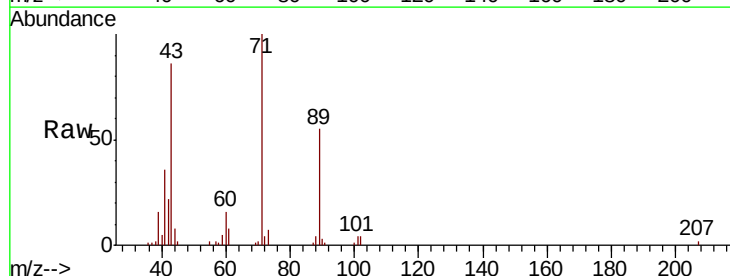
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



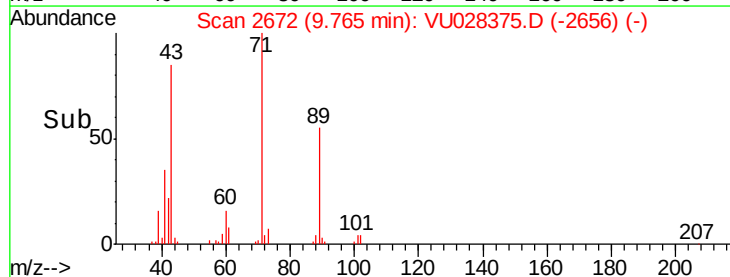
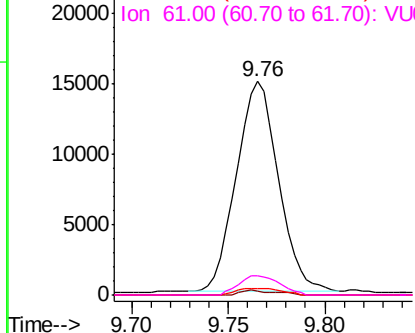
#74

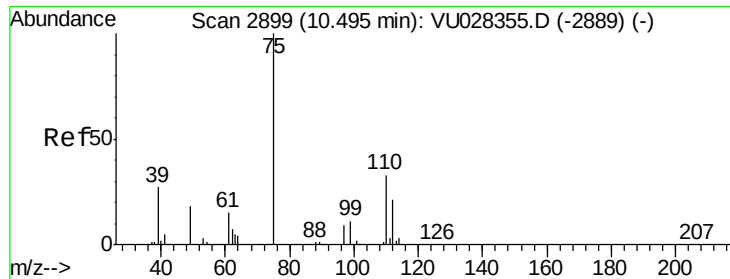
N-ethyl acetate
Concen: 2.803 ug/l
RT: 9.76 min Scan# 2672
Delta R.T. -0.25 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

Tgt Ion: 43 Resp: 22742
Ion Ratio Lower Upper
43 100
70 1.3 28.4 42.6#
55 1.7 18.0 27.0#
61 8.9 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

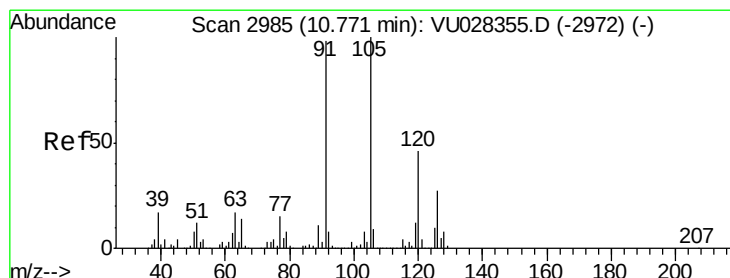
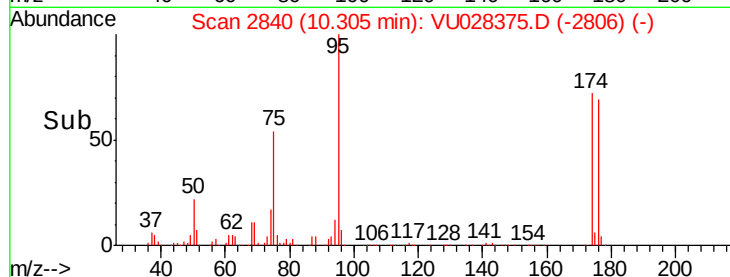
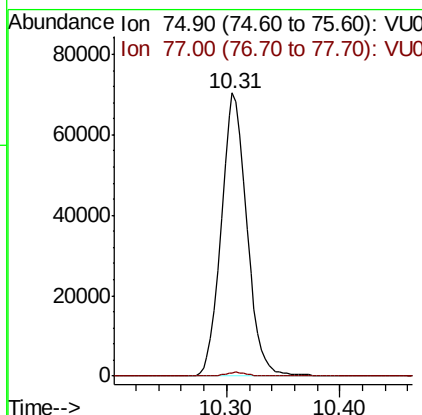
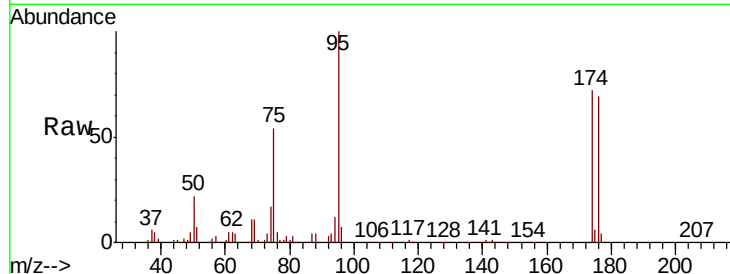




#76
 1,2,3-Trichloropropane
 Concen: 24.038 ug/l
 RT: 10.31 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

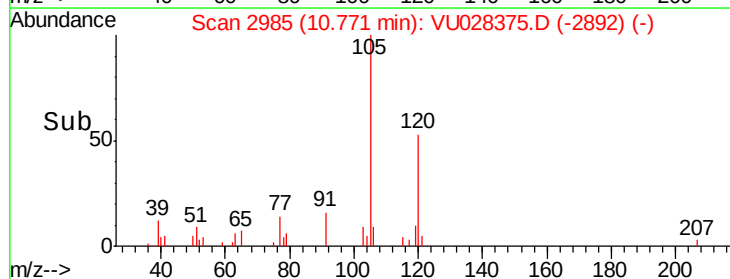
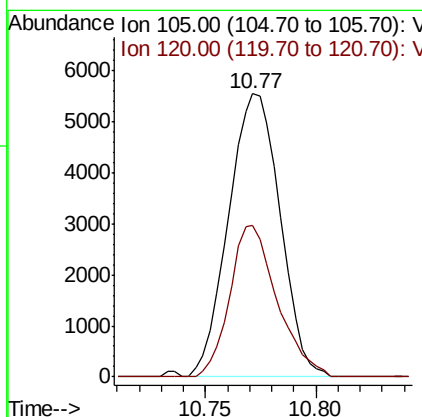
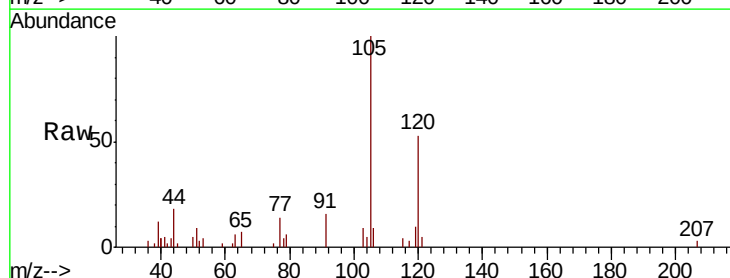
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#04

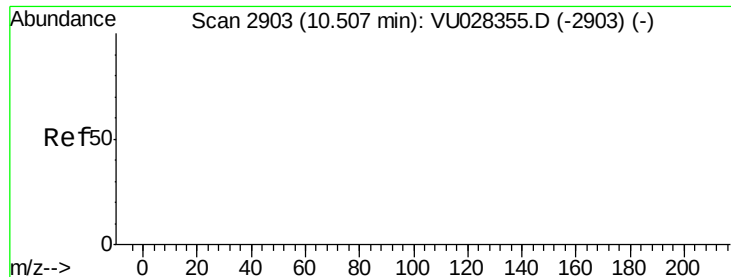
Tot Ion: 75 Resp: 110987
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.4 67.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.824 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU028375.D
 Acq: 28 Nov 2018 18:57

Tgt Ion: 105 Resp: 8991
 Ion Ratio Lower Upper
 105 100
 120 49.2 23.4 70.0

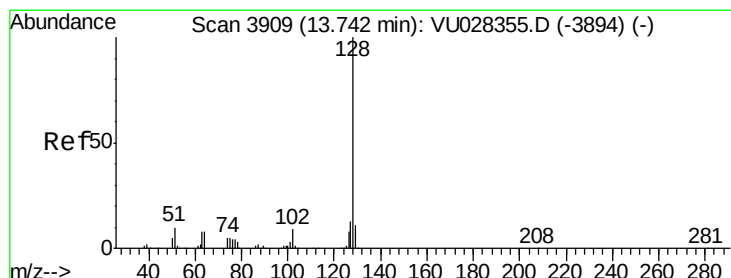
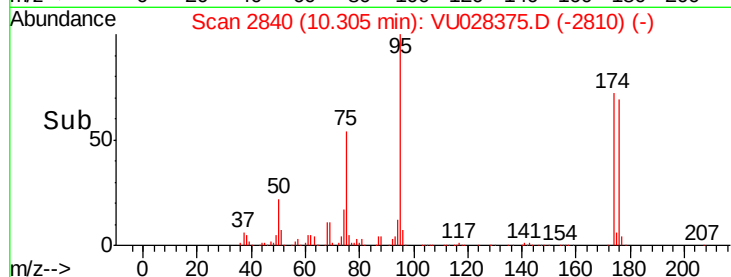
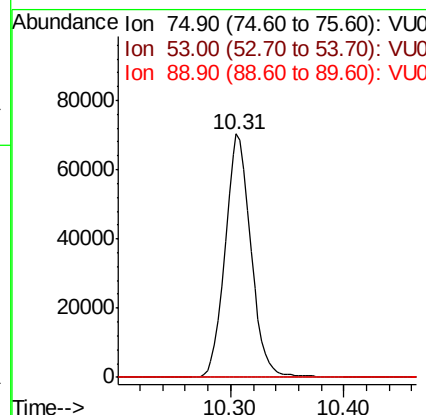
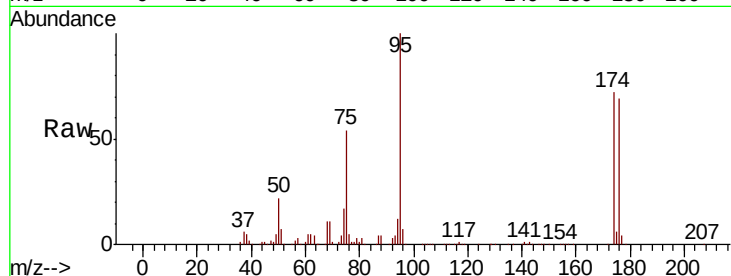




#81
trans-1,4-Dichloro-2-butene
Concen: 63.810 ug/l
RT: 10.31 min Scan# 2840
Delta R.T. -0.20 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#04

Tot Ion: 75 Resp: 110987
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 2.861 ug/l
RT: 13.77 min Scan# 3917
Delta R.T. 0.03 min
Lab File: VU028375.D
Acq: 28 Nov 2018 18:57

Tgt Ion: 128 Resp: 384
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

