

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034255.D
 Acq On : 04 Sep 2019 14:11
 Operator : JC/SP
 Sample : K4547-23
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-D-(2.5)

Quant Time: Sep 05 03:38:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	436446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	700418	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	687574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	332693	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	271156	48.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.98%	
35) Dibromofluoromethane	4.86	113	228922	47.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.24%	
50) Toluene-d8	7.55	98	896141	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
62) 4-Bromofluorobenzene	10.29	95	309916	43.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.60%	

Target Compounds

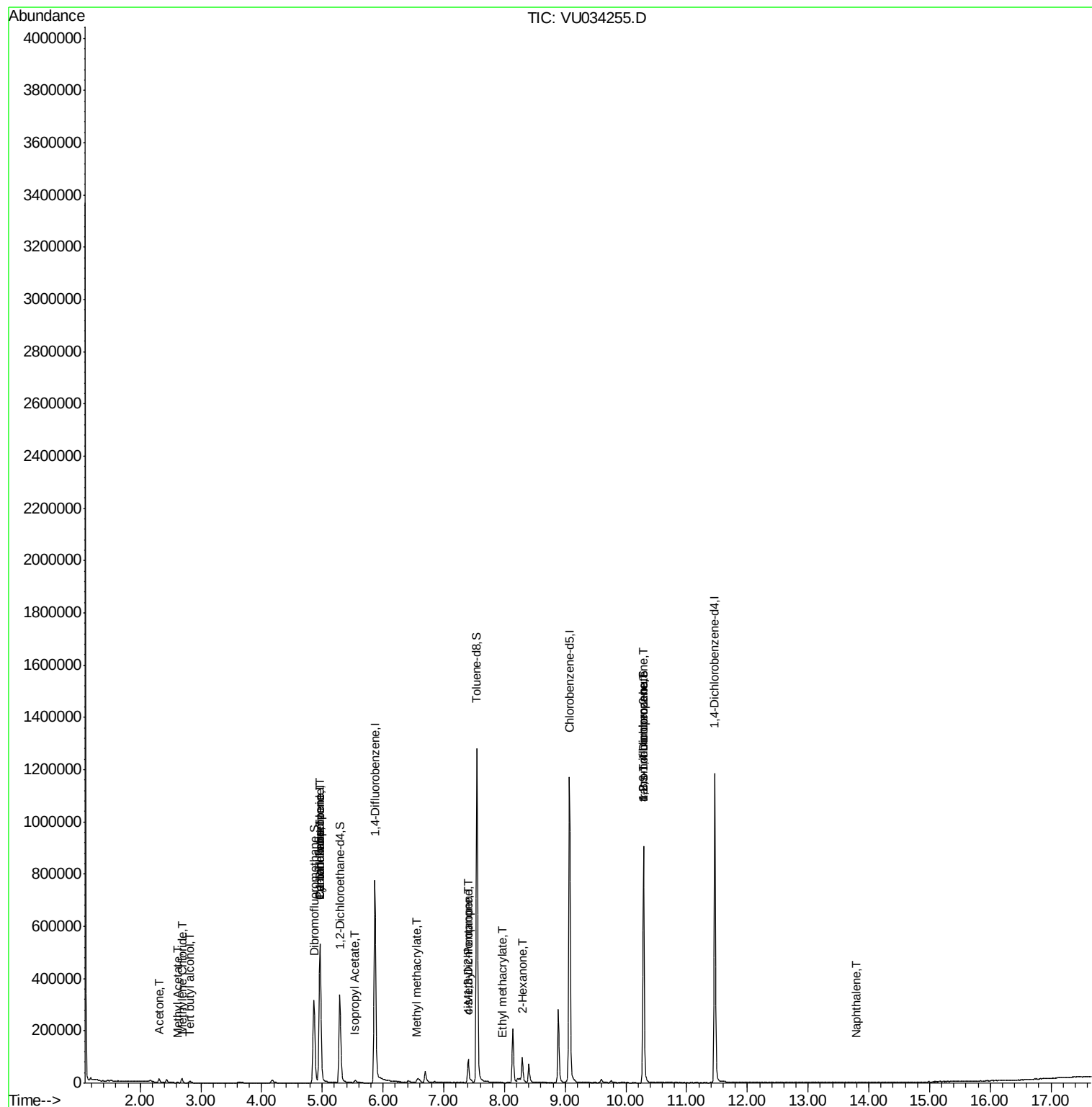
					Qvalue
3) Chloromethane	1.33	50	431	Below Cal	99
5) Bromomethane	1.58	94	41	Below Cal	# 2
11) Tert butyl alcohol	2.83	59	4607	3.572 ug/l	# 73
16) Acetone	2.31	43	15229	5.337 ug/l	96
18) Methyl Acetate	2.61	43	2012	0.273 ug/l	91
20) Methylene Chloride	2.69	84	7255	1.343 ug/l	90
31) Cyclohexane	4.96	56	7182	0.860 ug/l	# 1
36) 1,1-Dichloropropene	4.96	75	31335	4.730 ug/l	# 45
38) Carbon Tetrachloride	4.96	117	39616	6.195 ug/l	# 16
43) Isopropyl Acetate	5.54	43	13438	1.191 ug/l	94
48) Methyl methacrylate	6.54	41	1432	0.263 ug/l	# 28
51) 4-Methyl-2-Pentanone	7.40	43	31748	4.073 ug/l	# 47
54) cis-1,3-Dichloropropene	7.40	75	17651	2.094 ug/l	# 67
56) Ethyl methacrylate	7.96	69	142	0.988 ug/l	# 27
59) 2-Hexanone	8.29	43	76692	13.033 ug/l	# 23
76) 1,2,3-Trichloropropane	10.29	75	146862	19.586 ug/l	# 37
81) trans-1,4-Dichloro-2-buten	10.29	75	146862	65.951 ug/l	# 100
95) Naphthalene	13.79	128	68	1.793 ug/l	# 70

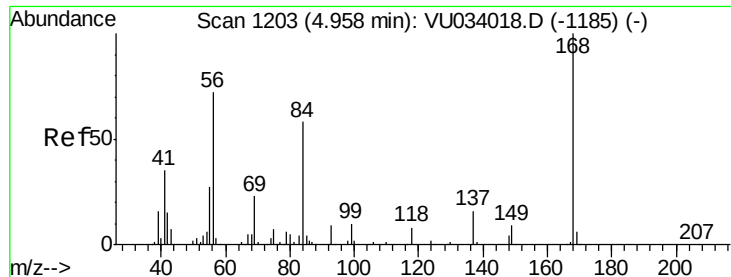
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

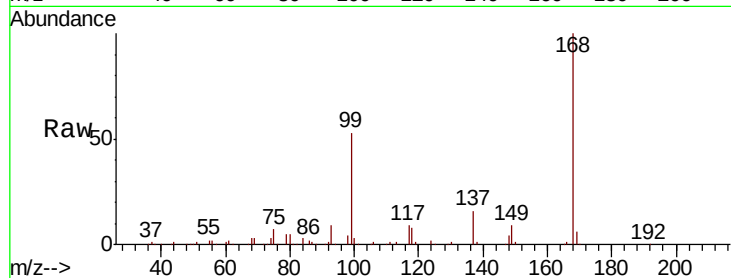
T3-S-D-(2.5)

Tgt Ion:168 Resp: 436446

Ion Ratio Lower Upper

168 100

99 53.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

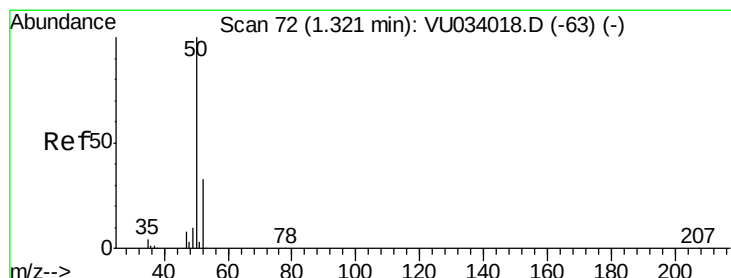
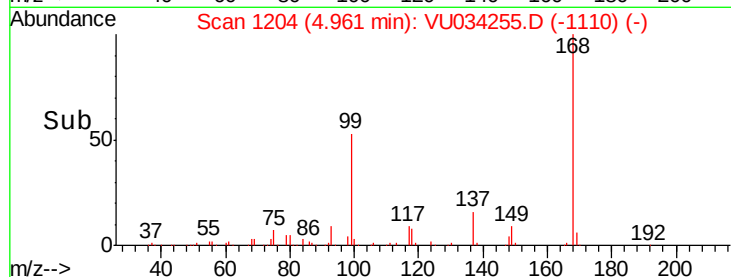
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034255.D

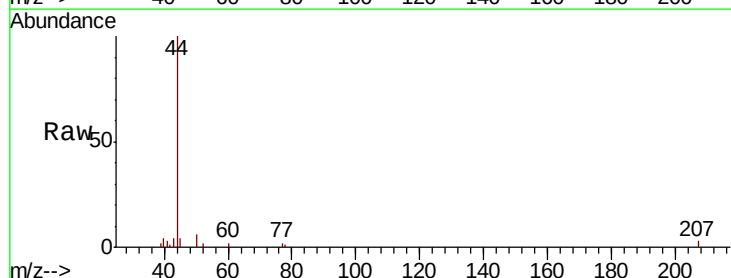
Acq: 04 Sep 2019 14:11

Tgt Ion: 50 Resp: 431

Ion Ratio Lower Upper

50 100

52 32.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

500

400

300

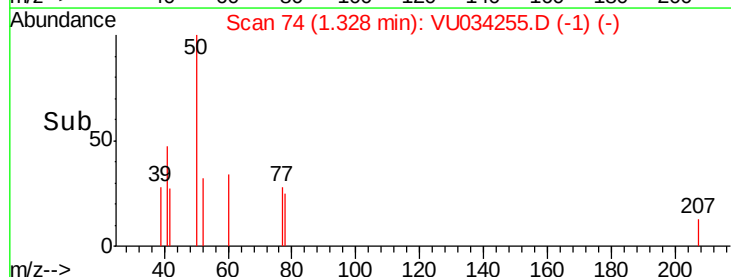
200

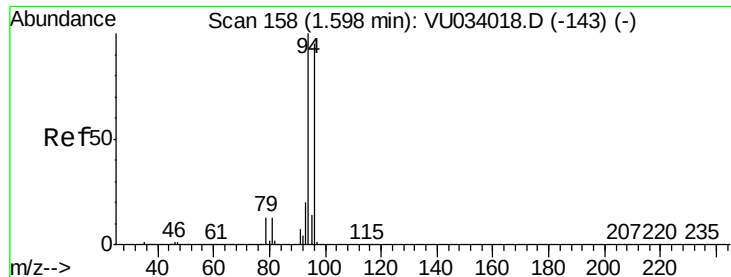
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 152

Delta R.T. -0.02 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

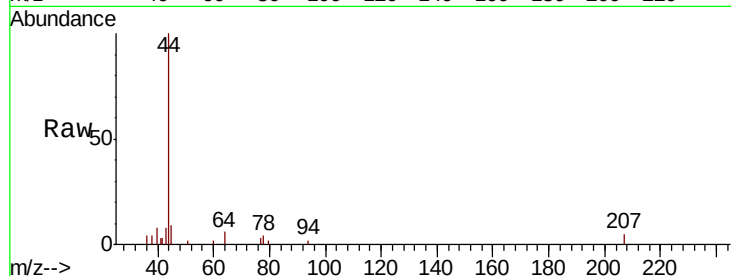
T3-S-D-(2.5)

Tgt Ion: 94 Resp: 41

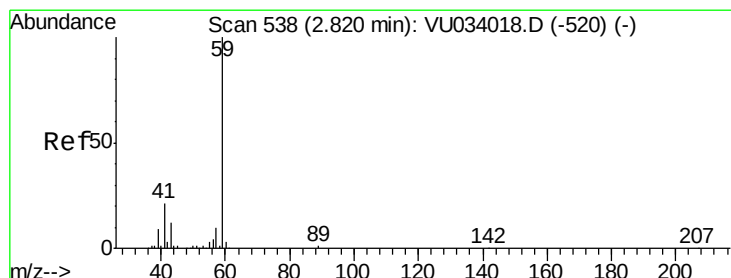
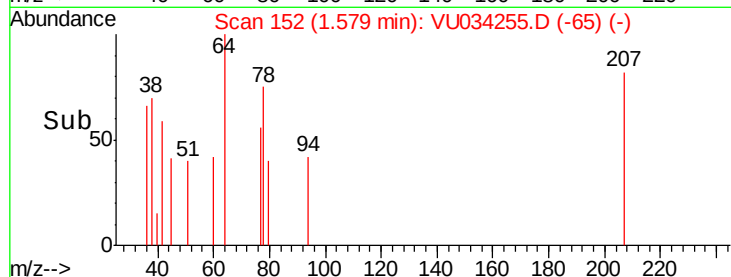
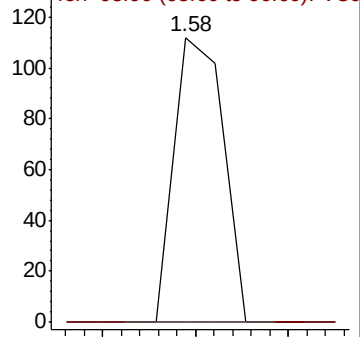
Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)



#11

Tert butyl alcohol

Concen: 3.572 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034255.D

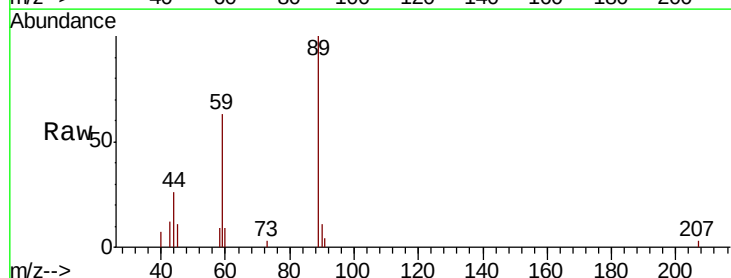
Acq: 04 Sep 2019 14:11

Tgt Ion: 59 Resp: 4607

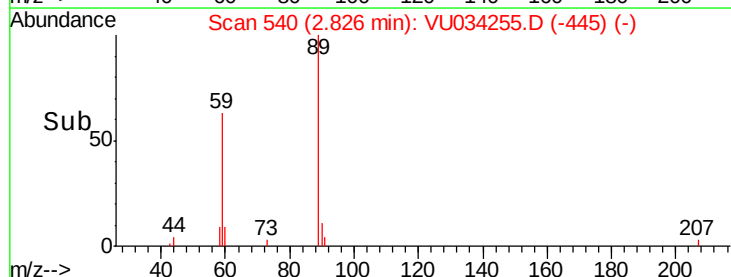
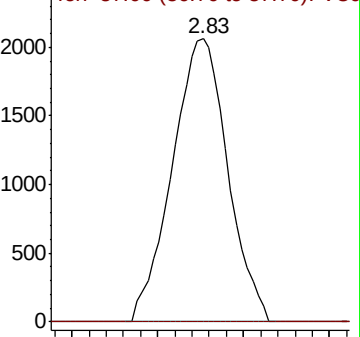
Ion Ratio Lower Upper

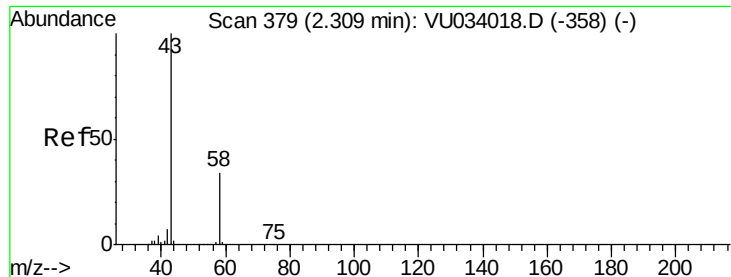
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034018.D (-520) (-)





#16

Acetone

Concen: 5.337 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

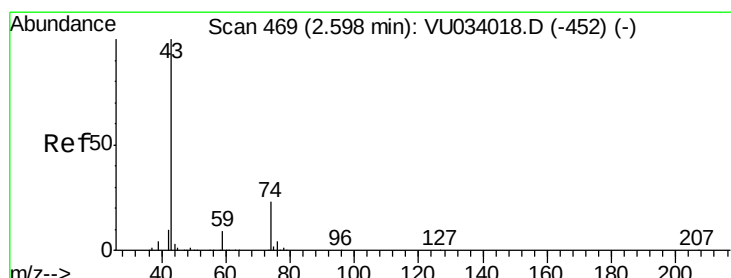
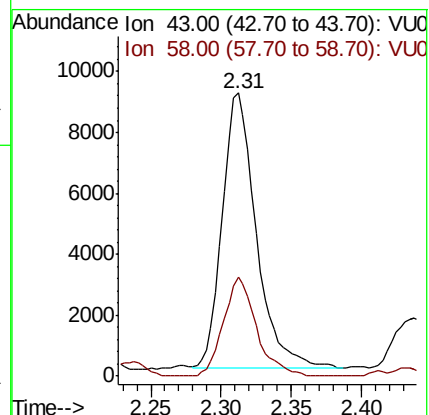
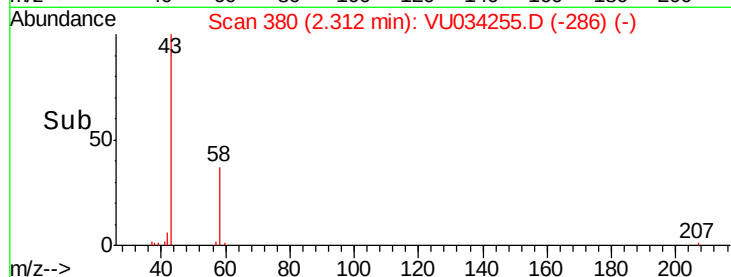
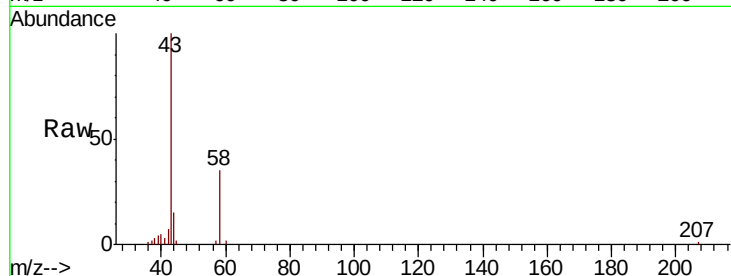
T3-S-D-(2.5)

Tgt Ion: 43 Resp: 15229

Ion Ratio Lower Upper

43 100

58 36.0 26.8 40.2



#18

Methyl Acetate

Concen: 0.273 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034255.D

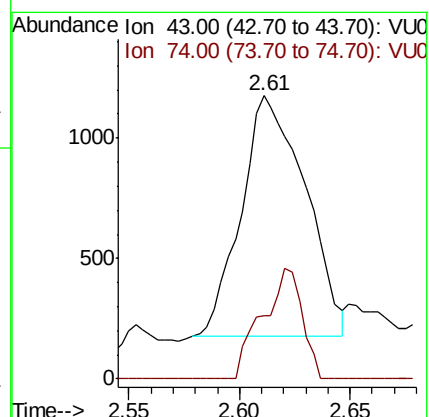
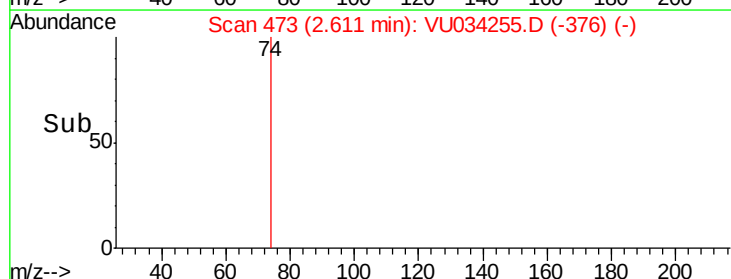
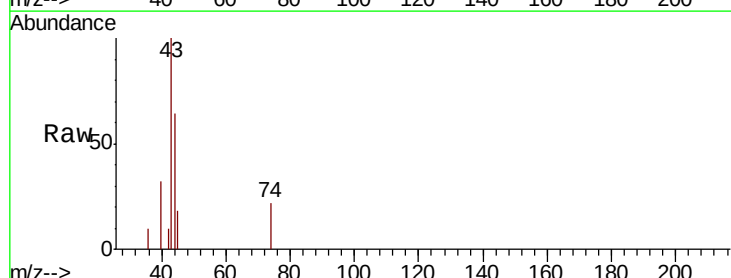
Acq: 04 Sep 2019 14:11

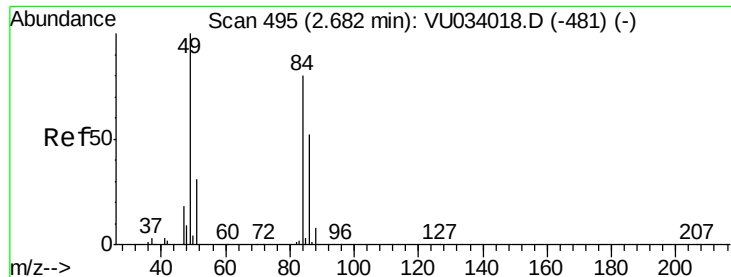
Tgt Ion: 43 Resp: 2012

Ion Ratio Lower Upper

43 100

74 28.5 19.2 28.8

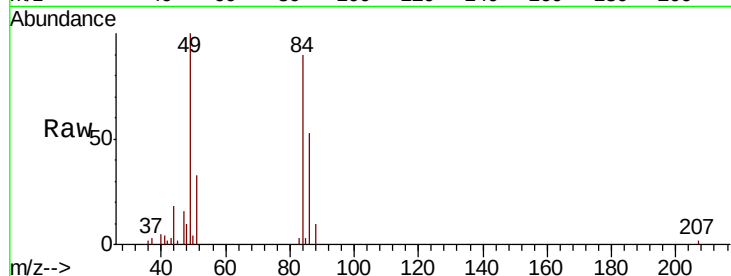




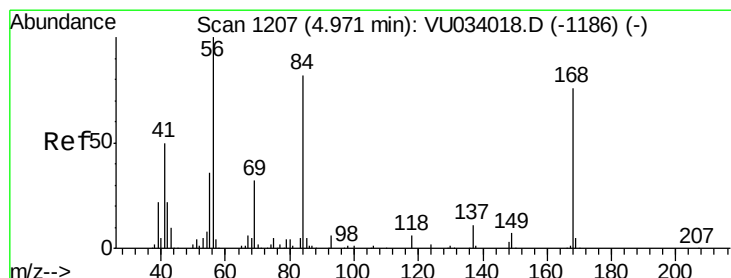
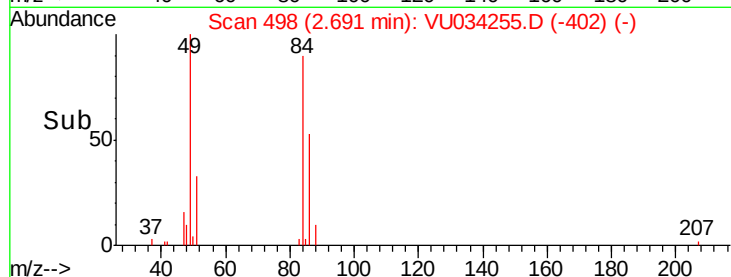
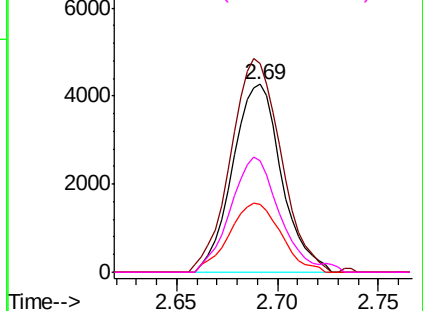
#20
Methylene Chloride
Concen: 1.343 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034255.D
Acq: 04 Sep 2019 14:11

Instrument :
MSVOA_U
ClientSampleId :
T3-S-D-(2.5)

Tgt Ion:	84	Resp:	7255
Ion	Ratio	Lower	Upper
84	100		
49	111.3	100.2	150.4
51	36.4	30.8	46.2
86	59.4	52.5	78.7

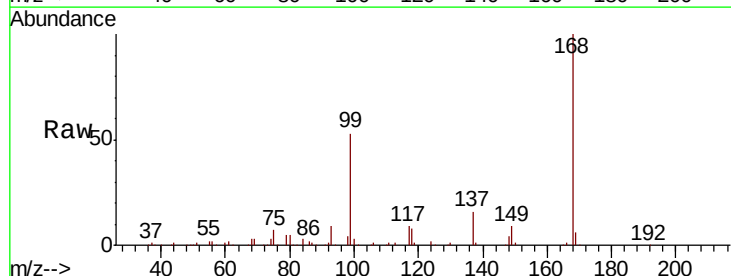


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

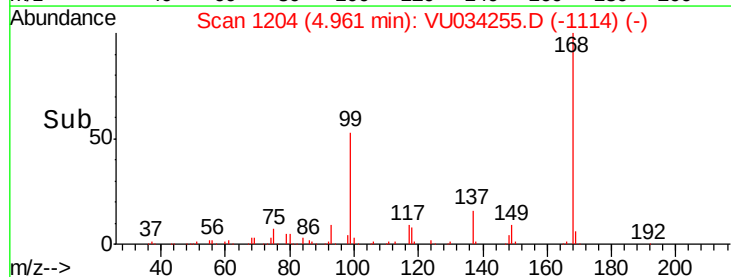
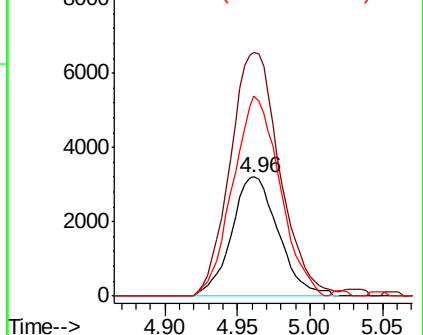


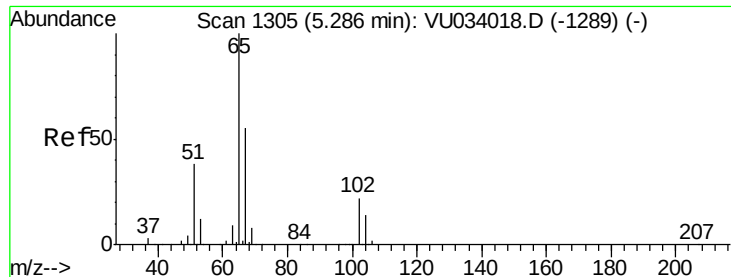
#31
Cyclohexane
Concen: 0.860 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034255.D
Acq: 04 Sep 2019 14:11

Tgt Ion:	56	Resp:	7182
Ion	Ratio	Lower	Upper
56	100		
69	204.2	25.4	38.0#
84	167.4	65.8	98.8#



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: 48.487 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

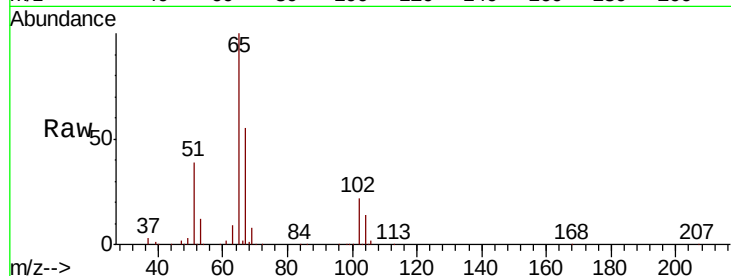
T3-S-D-(2.5)

Tgt Ion: 65 Resp: 271156

Ion Ratio Lower Upper

65 100

67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034018.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034018.D (-1289) (-)

5.29

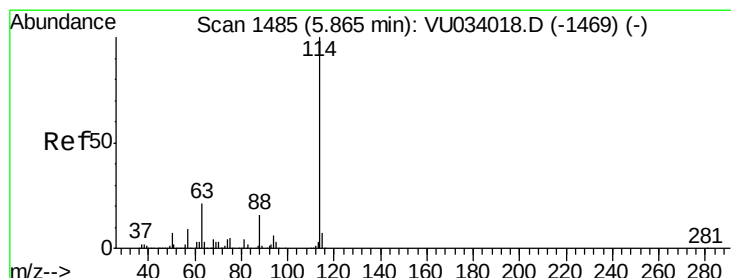
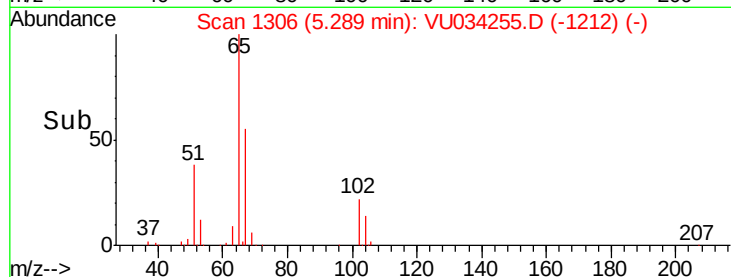
100000

50000

0

Time-->

5.20 5.30 5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

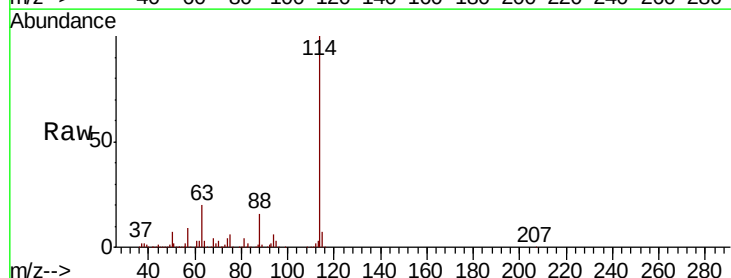
Tgt Ion: 114 Resp: 700418

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.0

88 16.0 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034018.D (-1469) (-)

Ion 63.00 (62.70 to 63.70): VU034018.D (-1469) (-)

Ion 87.90 (87.60 to 88.60): VU034018.D (-1469) (-)

5.86

400000

300000

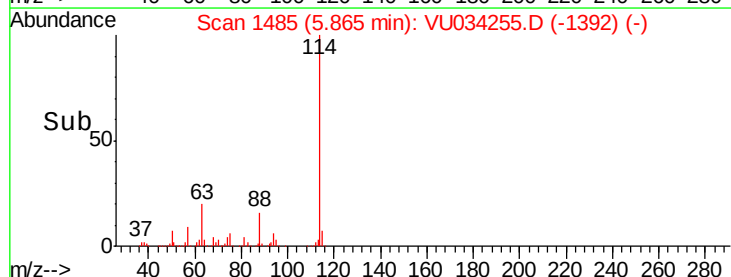
200000

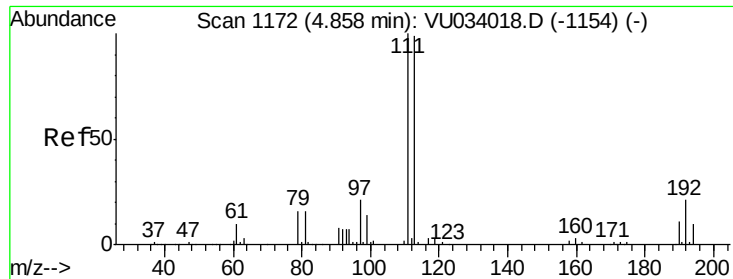
100000

0

Time-->

5.70 5.80 5.90 6.00 6.10

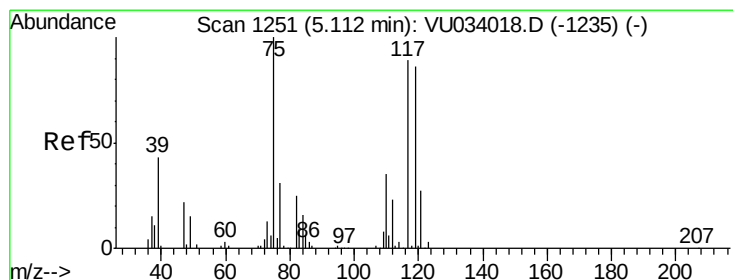
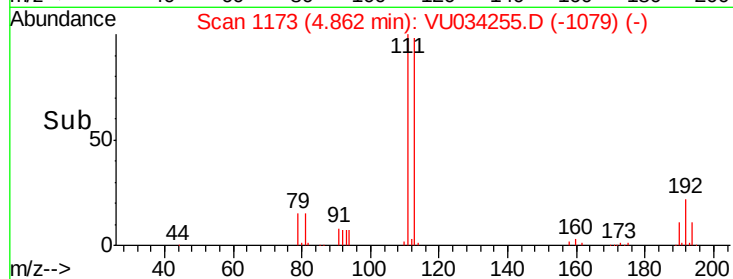
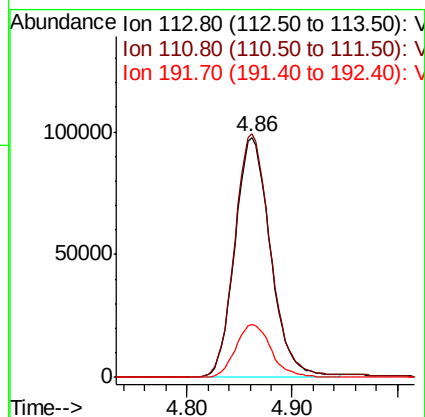
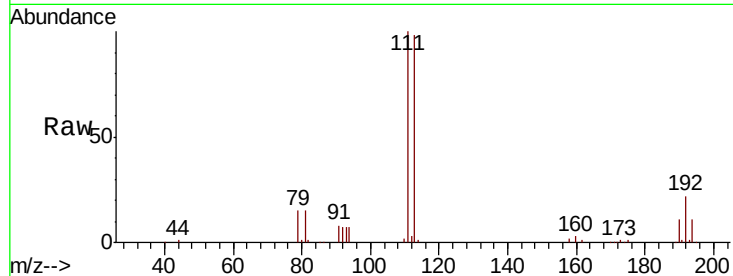




#35
 Dibromofluoromethane
 Concen: 47.122 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034255.D
 Acq: 04 Sep 2019 14:11

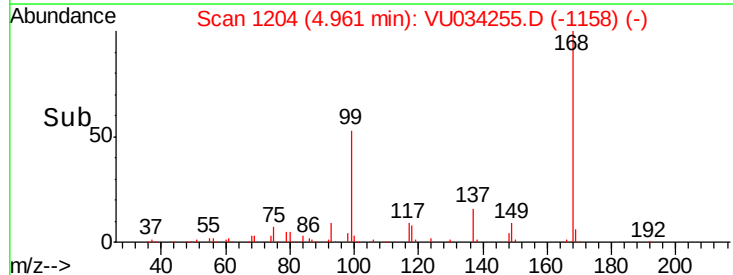
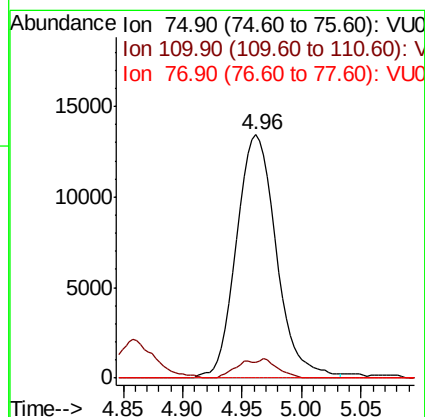
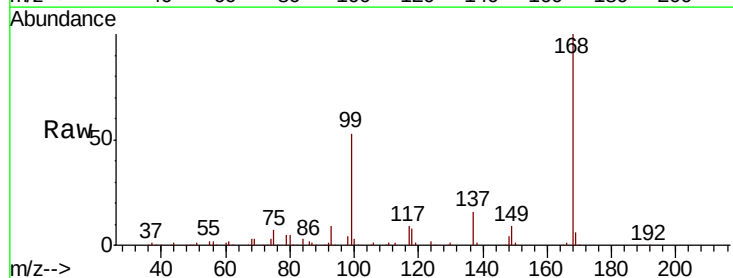
Instrument :
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 T3-S-D-(2.5)

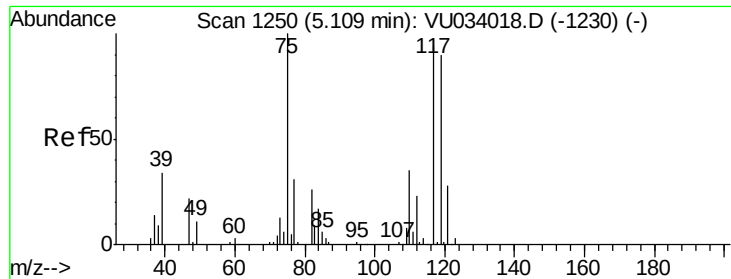
Tgt Ion: 113 Resp: 228922
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.7 122.5
 192 21.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.730 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034255.D
 Acq: 04 Sep 2019 14:11

Tgt Ion: 75 Resp: 31335
 Ion Ratio Lower Upper
 75 100
 110 3.8 17.8 53.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.195 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D-(2.5)

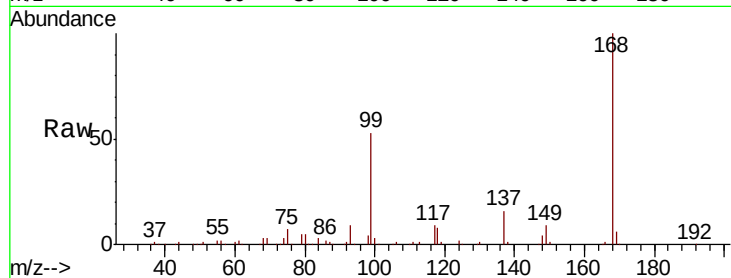
Tgt Ion:117 Resp: 39616

Ion Ratio Lower Upper

117 100

119 5.6 77.0 115.4#

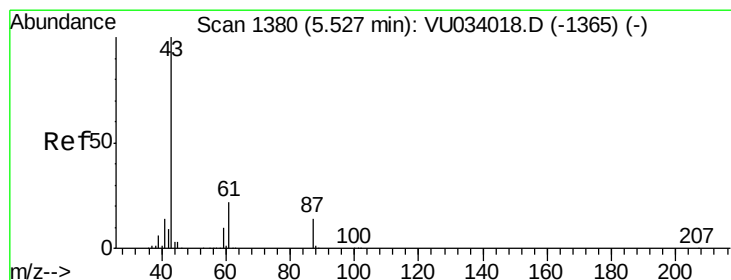
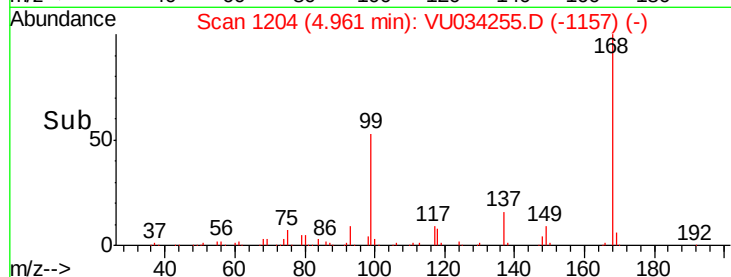
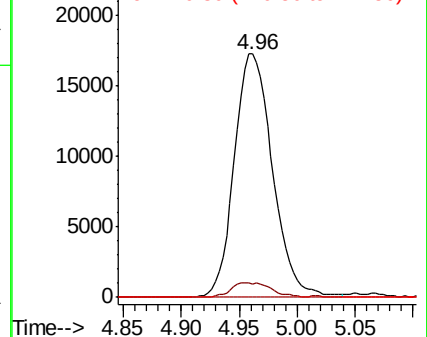
121 0.0 23.9 35.9#



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: 1.191 ug/l

RT: 5.54 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

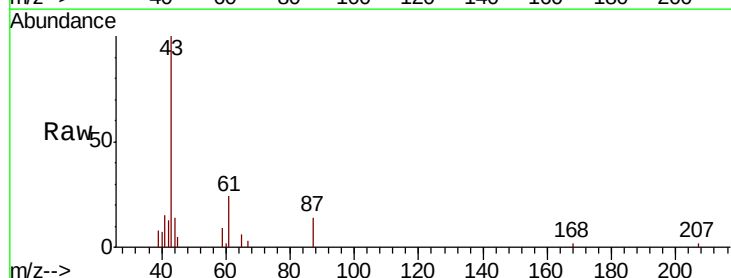
Tgt Ion: 43 Resp: 13438

Ion Ratio Lower Upper

43 100

61 24.6 17.2 25.8

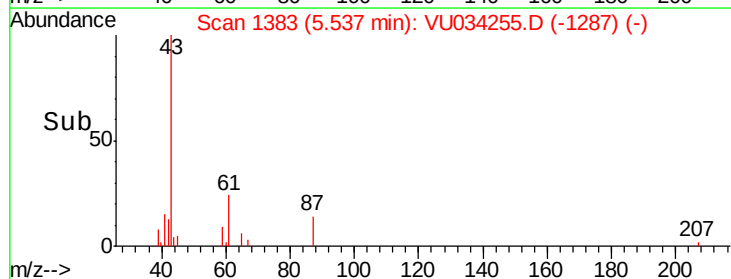
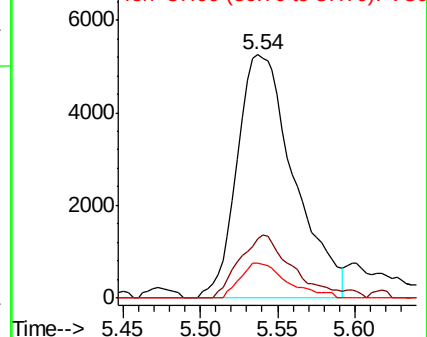
87 11.9 10.8 16.2

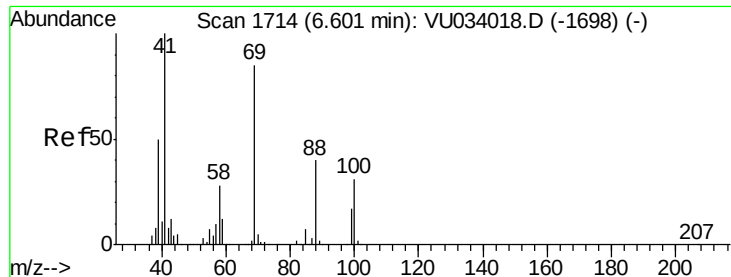


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

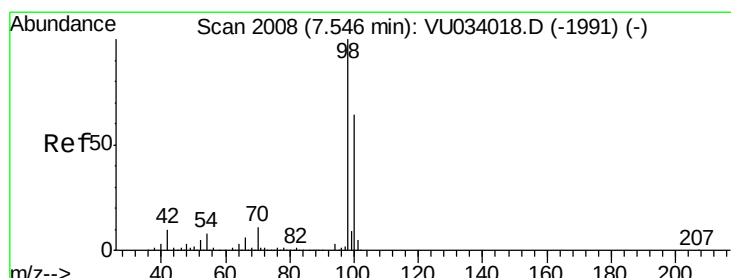
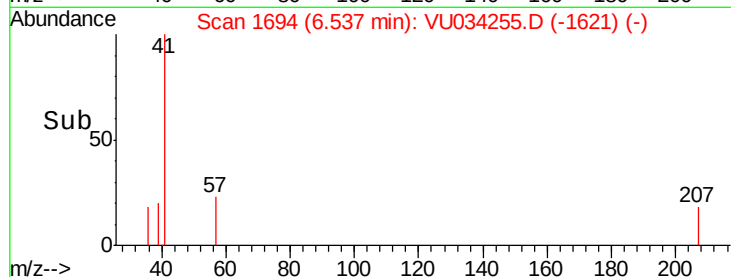
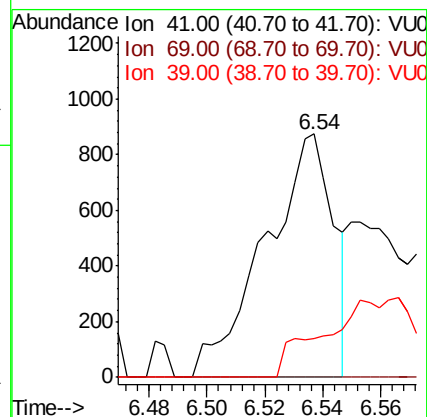
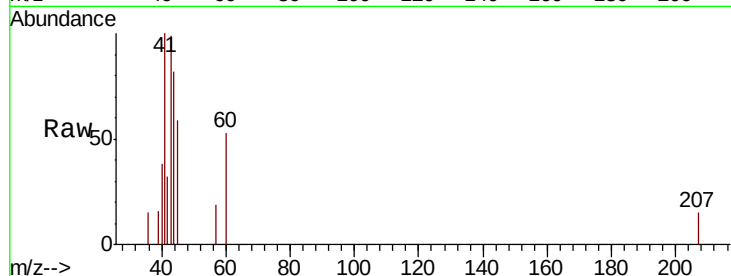




#48
Methyl methacrylate
Concen: 0.263 ug/l
RT: 6.54 min Scan# 1694
Delta R.T. -0.06 min
Lab File: VU034255.D
Acq: 04 Sep 2019 14:11

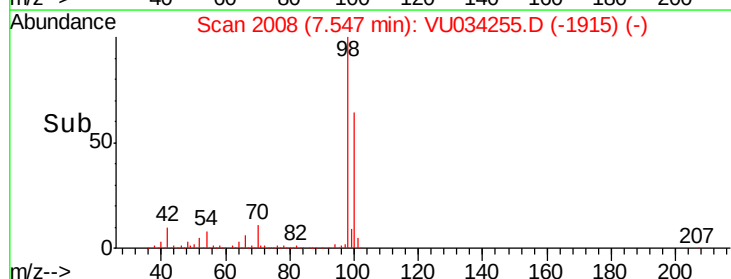
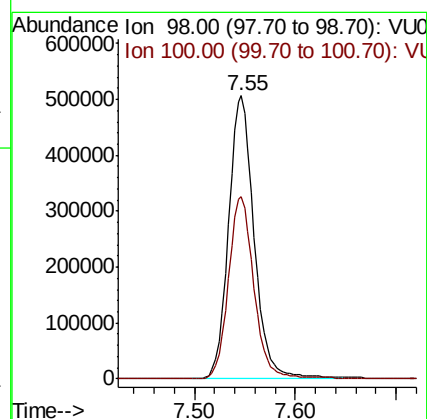
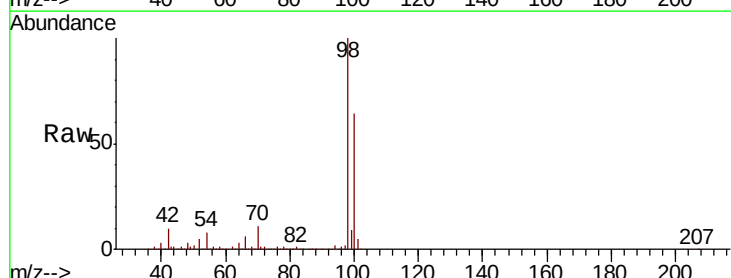
Instrument :
MSVOA_U
ClientSampleId :
T3-S-D-(2.5)

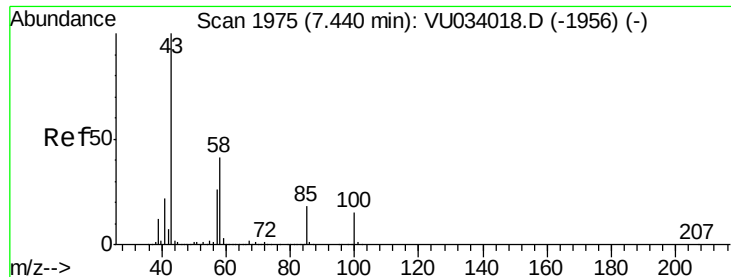
Tgt Ion: 41 Resp: 1432
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 27.4 40.3 60.5#



#50
Toluene-d8
Concen: 49.265 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034255.D
Acq: 04 Sep 2019 14:11

Tgt Ion: 98 Resp: 896141
Ion Ratio Lower Upper
98 100
100 64.6 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 4.073 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

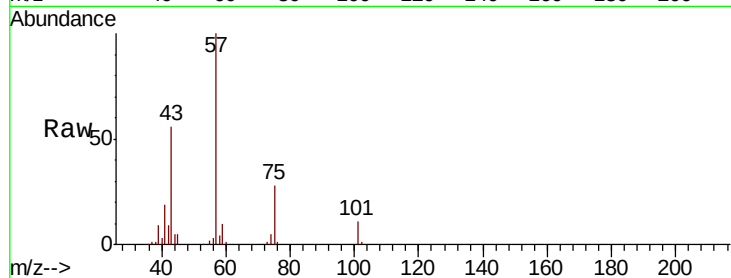
T3-S-D-(2.5)

Tgt Ion: 43 Resp: 31748

Ion Ratio Lower Upper

43 100

58 7.5 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-1956) (-)

7.40

20000

15000

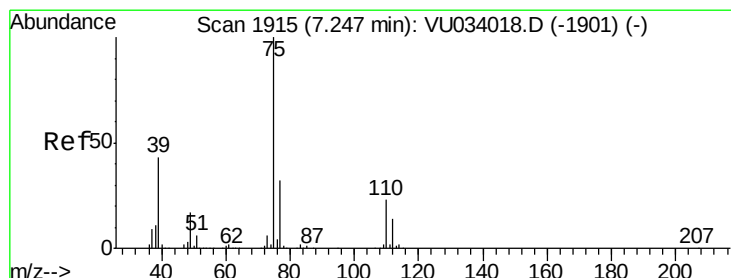
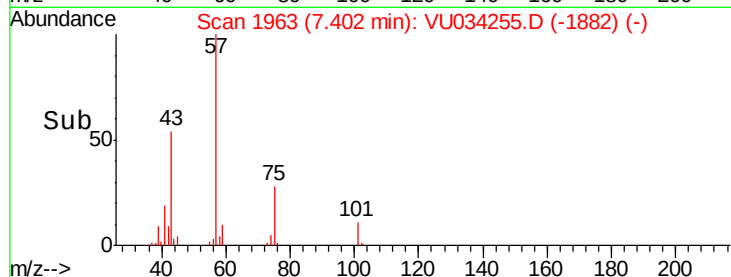
10000

5000

0

7.35 7.40 7.45

Time-->



#54

cis-1,3-Dichloropropene

Concen: 2.094 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

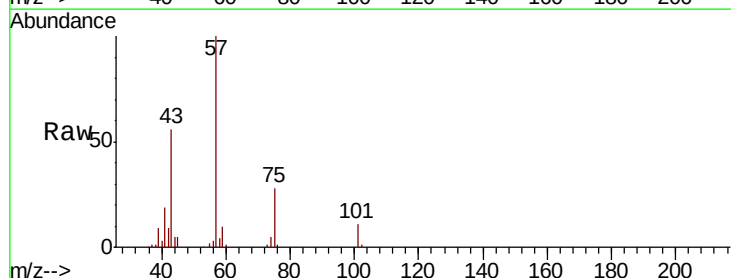
Tgt Ion: 75 Resp: 17651

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 33.2 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1901) (-)

Ion 76.90 (76.60 to 77.60): VU034018.D (-1901) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1901) (-)

7.40

12000

10000

8000

6000

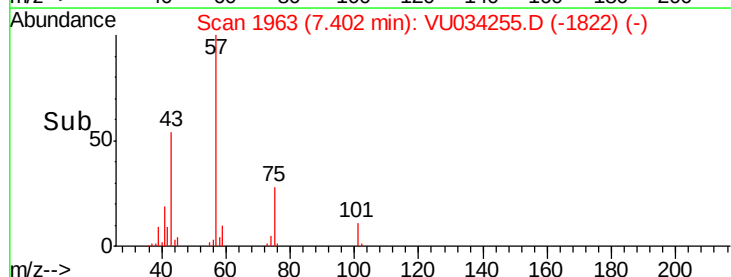
4000

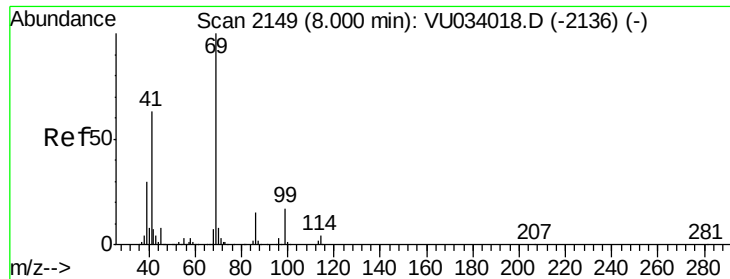
2000

0

7.35 7.40 7.45 7.50

Time-->

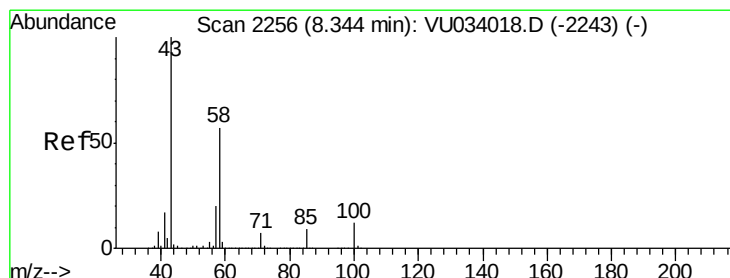
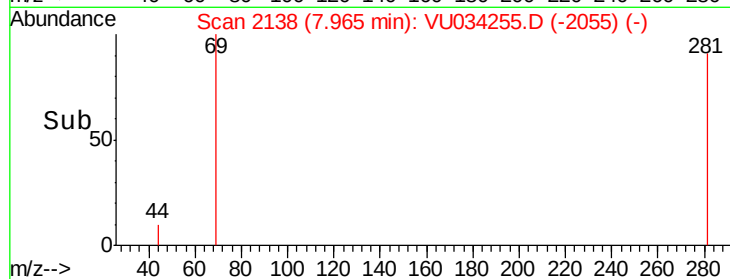
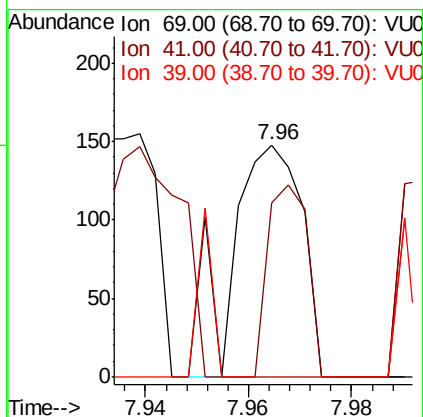
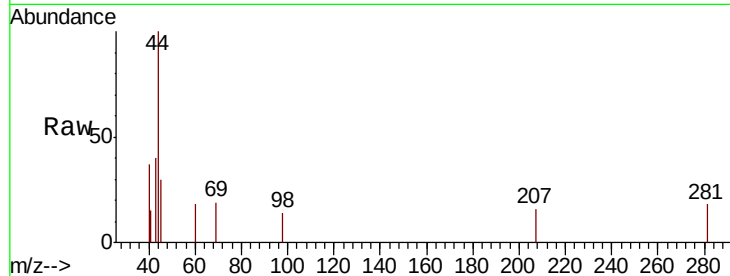




#56
Ethyl methacrylate
Concen: 0.988 ug/l
RT: 7.96 min Scan# 2138
Delta R.T. -0.03 min
Lab File: VU034255.D
Acq: 04 Sep 2019 14:11

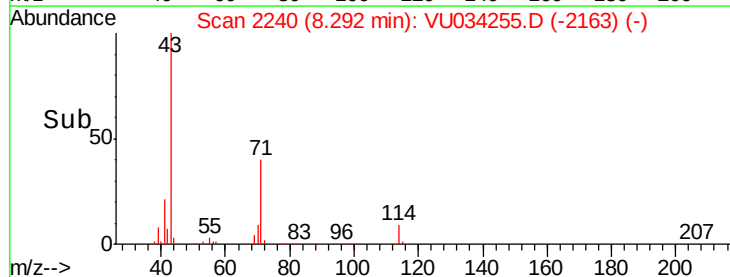
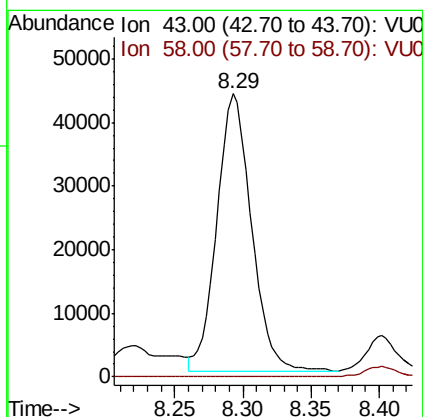
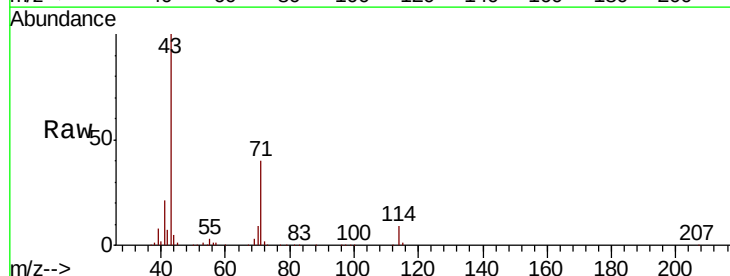
Instrument :
MSVOA_U
ClientSampleId :
T3-S-D-(2.5)

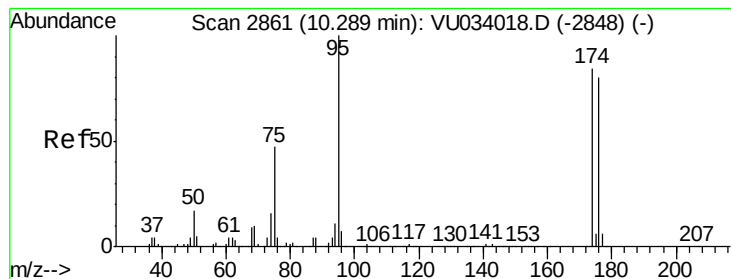
Tgt Ion: 69 Resp: 142
Ion Ratio Lower Upper
69 100
41 0.0 50.7 76.1#
39 0.0 24.2 36.2#



#59
2-Hexanone
Concen: 13.033 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034255.D
Acq: 04 Sep 2019 14:11

Tgt Ion: 43 Resp: 76692
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 43.799 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D-(2.5)

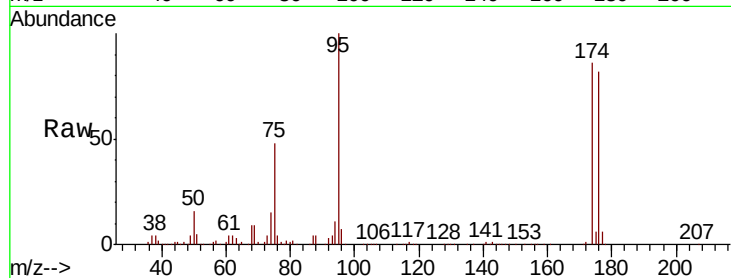
Tgt Ion: 95 Resp: 309916

Ion Ratio Lower Upper

95 100

174 87.1 0.0 168.8

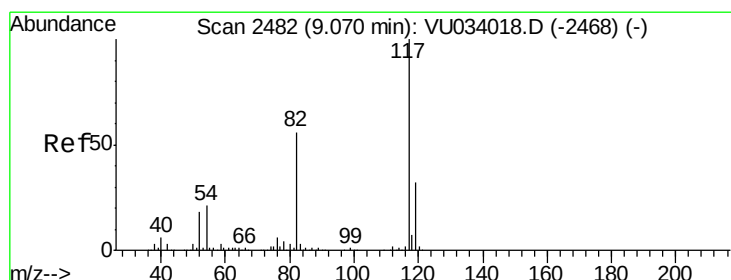
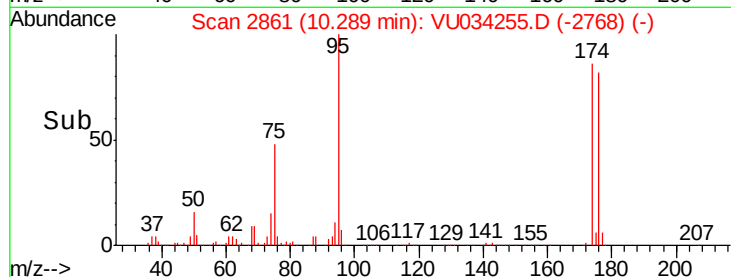
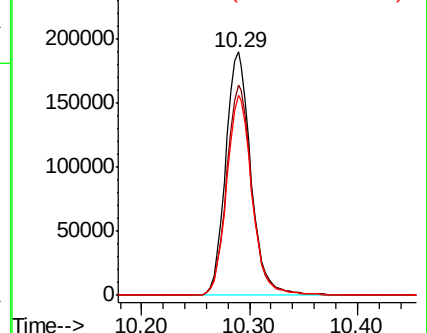
176 82.7 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

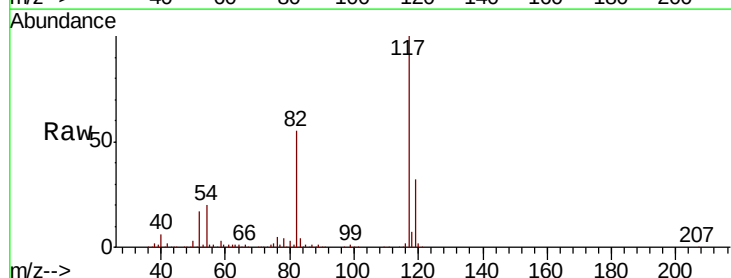
Tgt Ion: 117 Resp: 687574

Ion Ratio Lower Upper

117 100

82 55.4 45.1 67.7

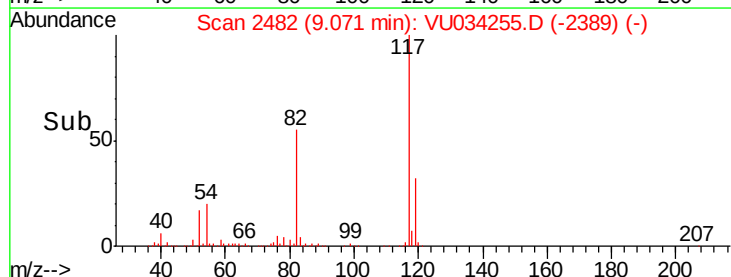
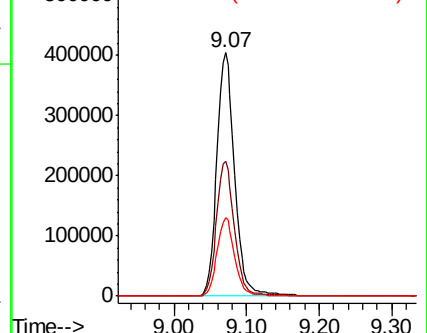
119 32.2 25.4 38.0

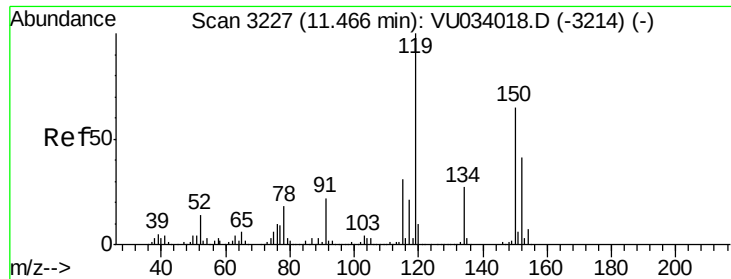


Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034018.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034018.D (-2468) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D-(2.5)

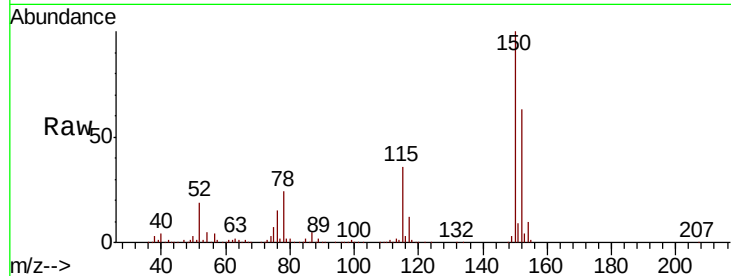
Tgt Ion:152 Resp: 332693

Ion Ratio Lower Upper

152 100

115 57.3 41.1 123.3

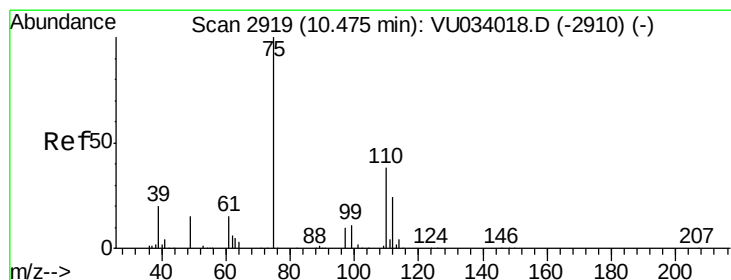
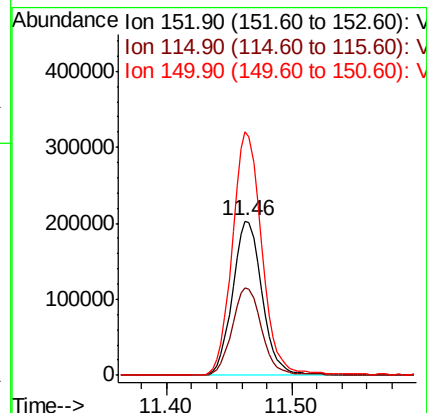
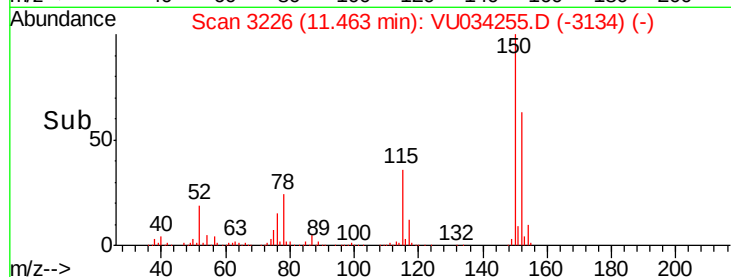
150 157.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 19.586 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034255.D

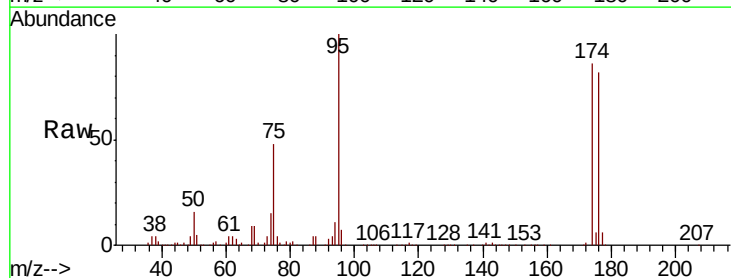
Acq: 04 Sep 2019 14:11

Tgt Ion: 75 Resp: 146862

Ion Ratio Lower Upper

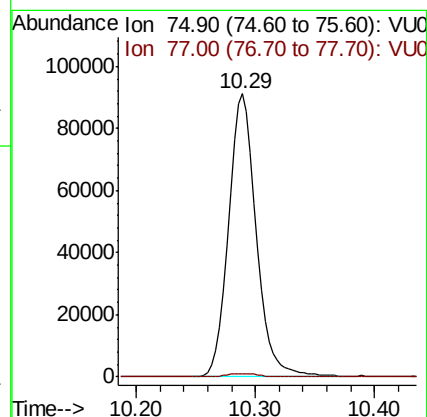
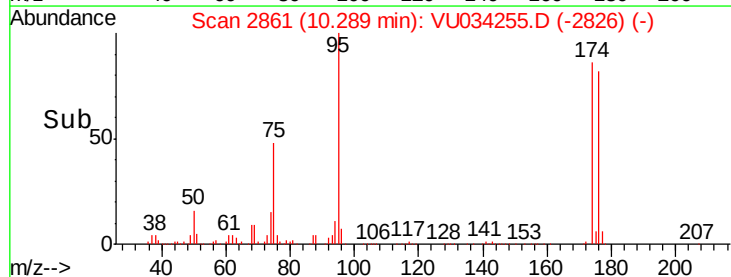
75 100

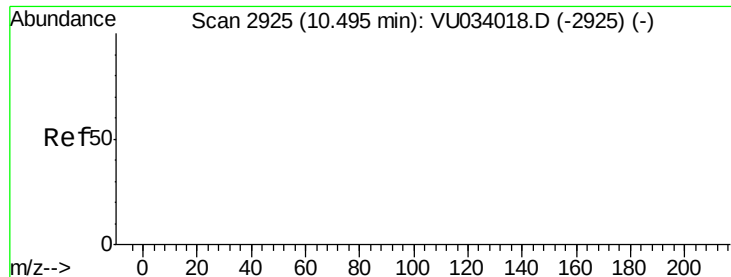
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.951 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

T3-S-D-(2.5)

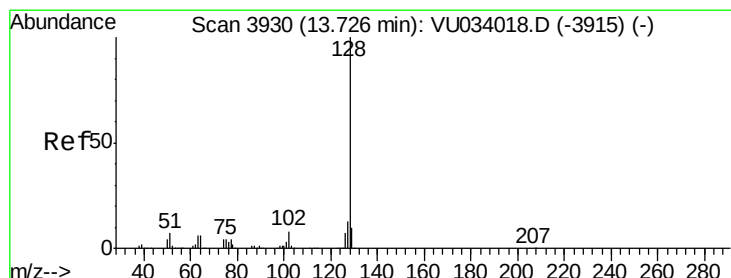
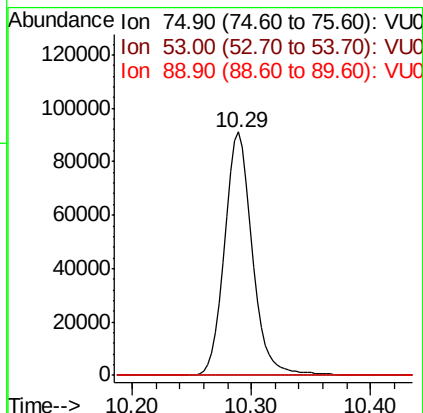
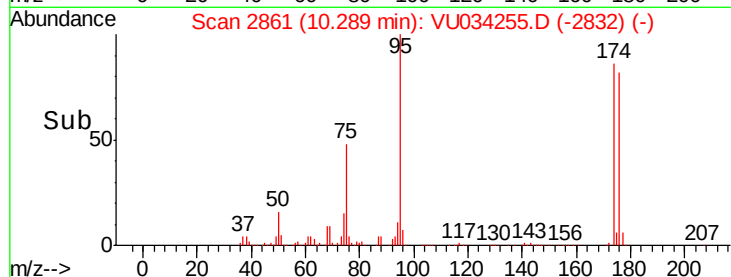
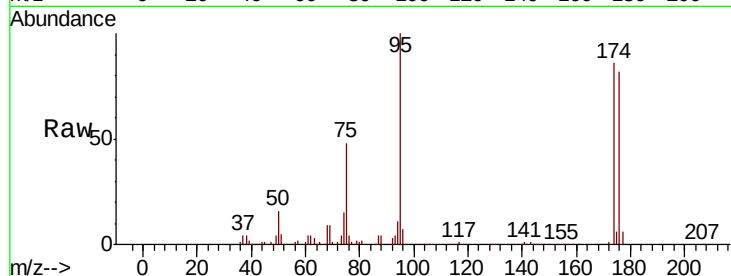
Tgt Ion: 75 Resp: 146862

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 1.793 ug/l

RT: 13.79 min Scan# 3951

Delta R.T. 0.07 min

Lab File: VU034255.D

Acq: 04 Sep 2019 14:11

Tgt Ion: 128 Resp: 68

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

