

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
 Data File : VU034454.D
 Acq On : 10 Sep 2019 16:21
 Operator : JC/SP
 Sample : K4602-27
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G4-(2.7)

Quant Time: Sep 11 05:56:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	231824	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	366477	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	388987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	210866	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	209557	59.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.48%	
35) Dibromofluoromethane	4.86	113	181994	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
50) Toluene-d8	7.55	98	670682	52.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.70%	
62) 4-Bromofluorobenzene	10.29	95	227695	46.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.06%	

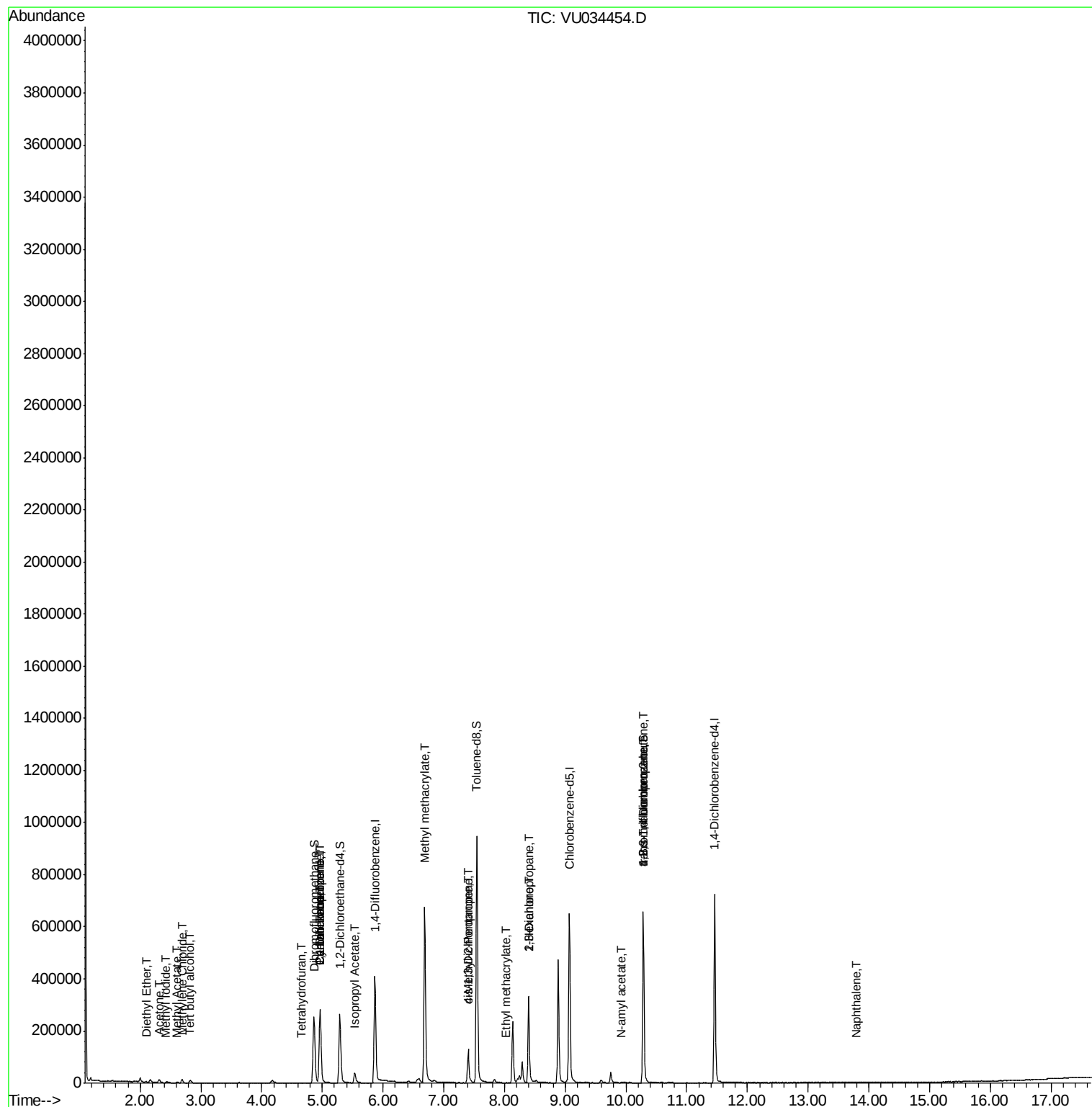
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	401	Below Cal	#	80
6) Chloroethane	1.70	64	58	Below Cal	#	43
8) Diethyl Ether	2.10	74	673	0.378	ug/l	93
10) Methyl Iodide	2.41	142	157	3.905	ug/l #	43
11) Tert butyl alcohol	2.83	59	6685	9.021	ug/l #	73
16) Acetone	2.31	43	14503	7.990	ug/l	98
18) Methyl Acetate	2.61	43	4505	1.020	ug/l	98
20) Methylene Chloride	2.69	84	6221	1.706	ug/l	91
29) Tetrahydrofuran	4.65	42	311	0.211	ug/l #	32
31) Cyclohexane	4.96	56	3616	0.880	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	15854	3.989	ug/l #	46
38) Carbon Tetrachloride	4.96	117	21849	5.149	ug/l #	15
43) Isopropyl Acetate	5.53	43	46330	6.320	ug/l	99
48) Methyl methacrylate	6.68	41	61675	17.714	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	45602	8.987	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	24379	4.423	ug/l #	64
56) Ethyl methacrylate	8.02	69	76	3.089	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	3467	0.583	ug/l #	43
59) 2-Hexanone	8.40	43	44262	11.676	ug/l #	55
74) N-amyl acetate	9.92	43	1146	0.207	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	107869	23.435	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	107869	78.812	ug/l #	100
95) Naphthalene	13.79	128	121	3.974	ug/l #	69

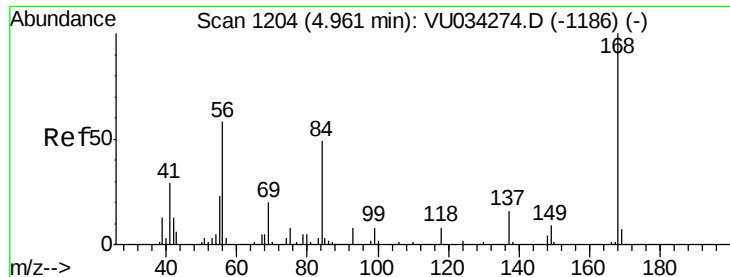
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
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Quant Time: Sep 11 05:56:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

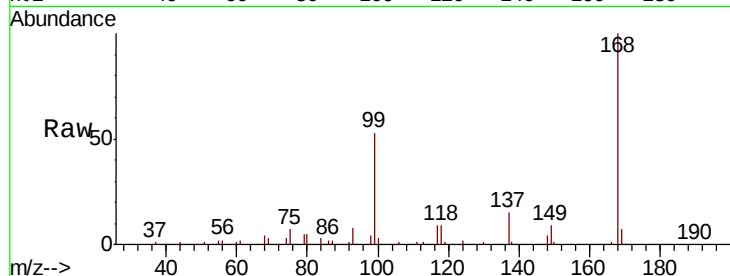
T12-G4-(2.7)

Tgt Ion:168 Resp: 231824

Ion Ratio Lower Upper

168 100

99 52.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

100000

80000

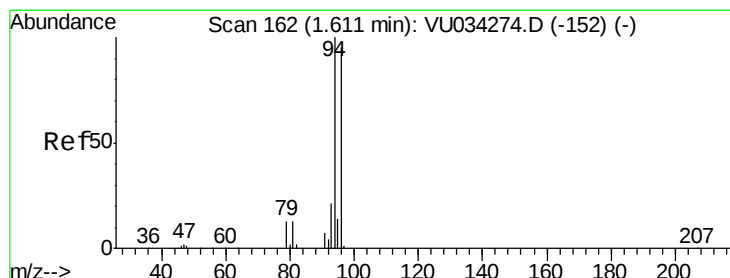
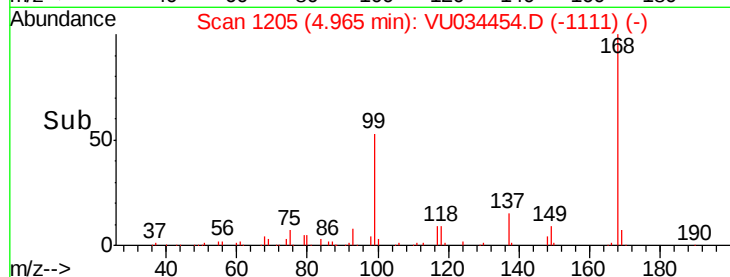
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034454.D

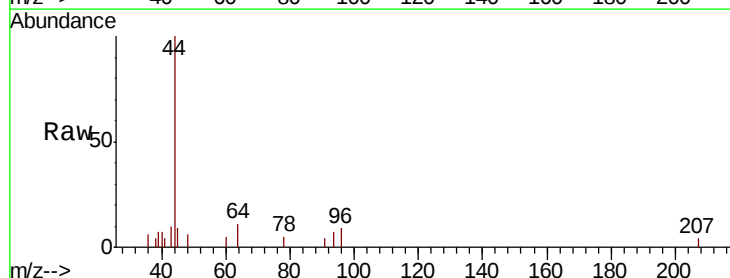
Acq: 10 Sep 2019 16:21

Tgt Ion: 94 Resp: 401

Ion Ratio Lower Upper

94 100

96 114.1 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

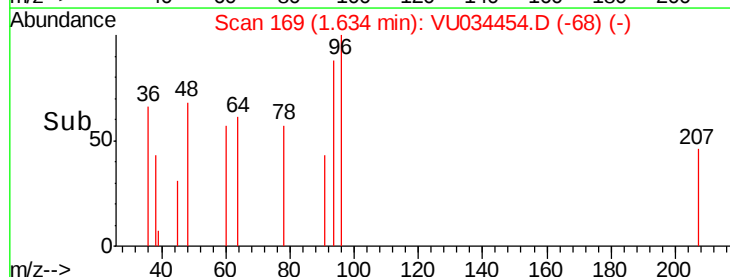
300

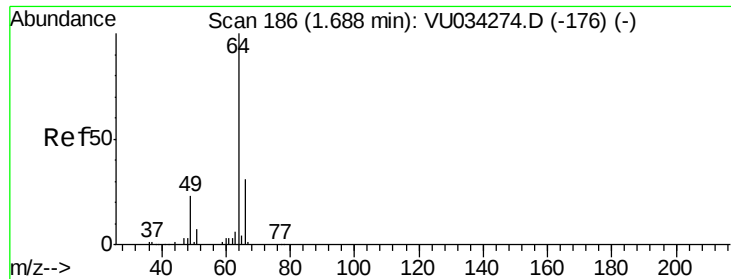
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 190

Delta R.T. 0.01 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

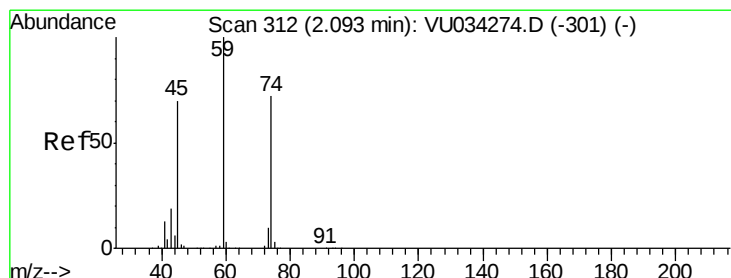
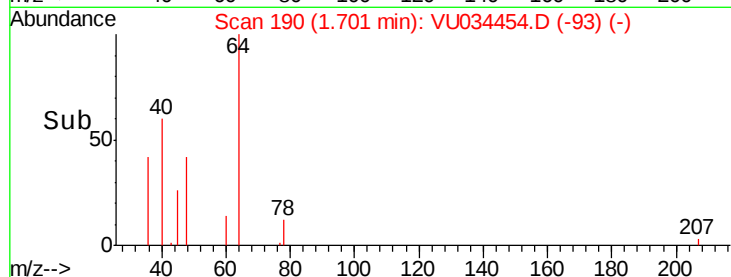
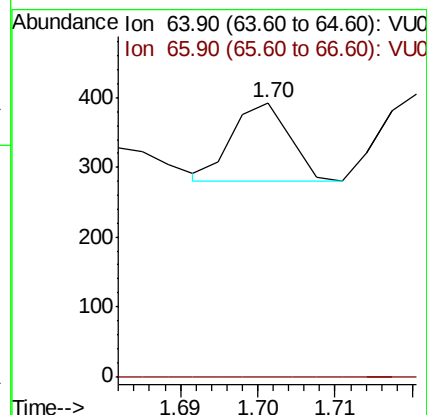
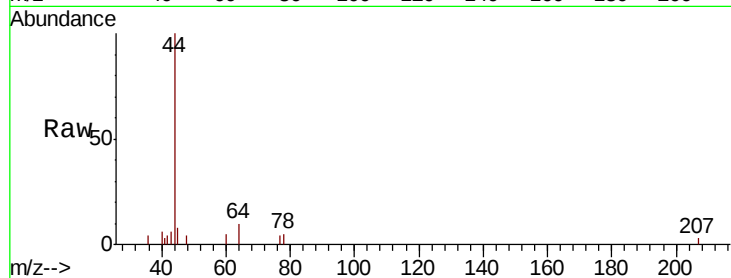
T12-G4-(2.7)

Tgt Ion: 64 Resp: 58

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#8

Diethyl Ether

Concen: 0.378 ug/l

RT: 2.10 min Scan# 314

Delta R.T. 0.01 min

Lab File: VU034454.D

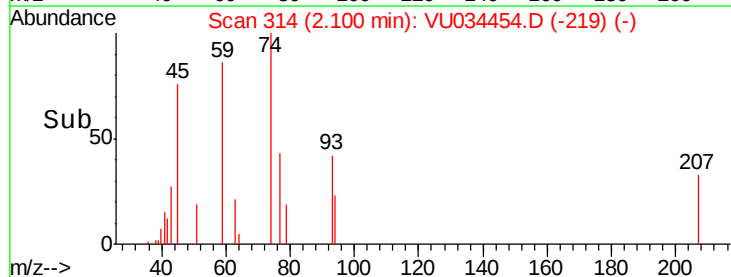
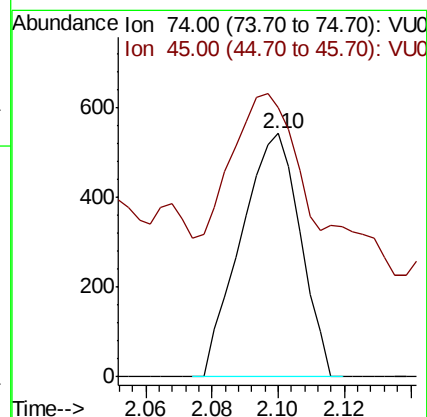
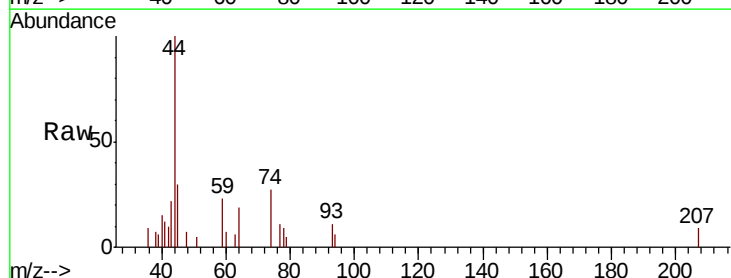
Acq: 10 Sep 2019 16:21

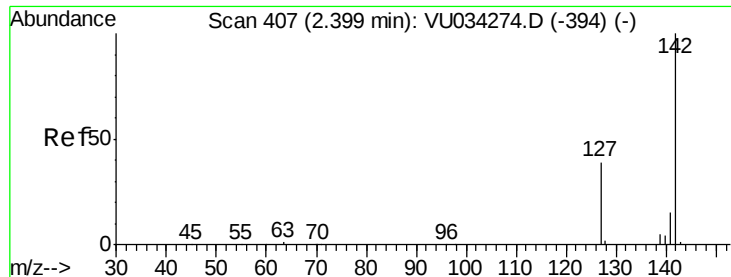
Tgt Ion: 74 Resp: 673

Ion Ratio Lower Upper

74 100

45 103.4 48.2 144.6

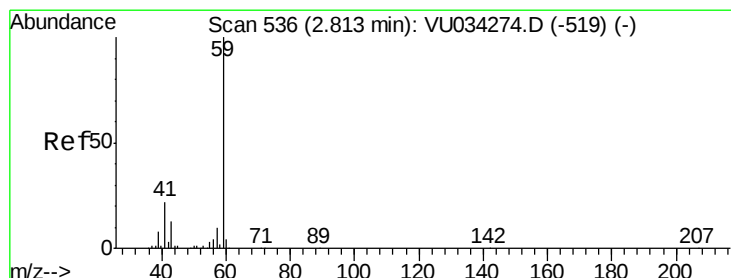
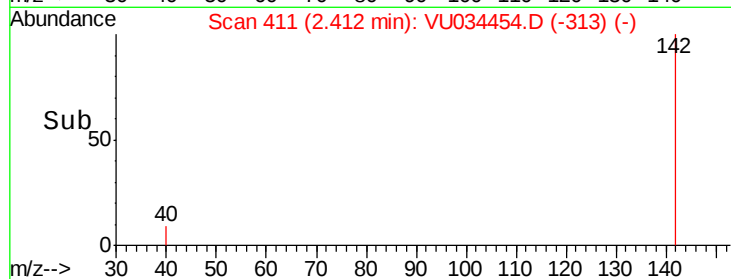
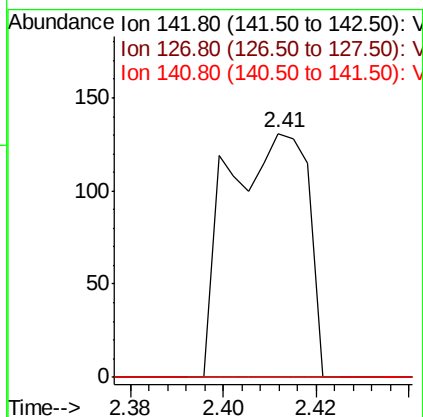
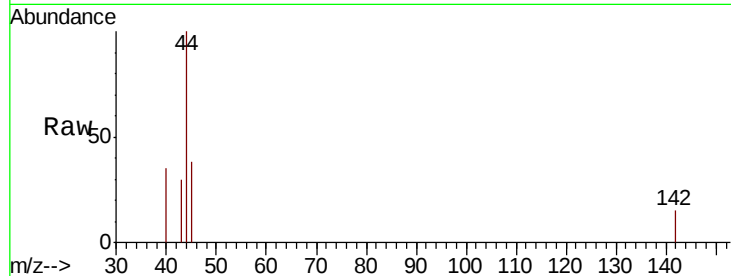




#10
Methyl Iodide
Concen: 3.905 ug/l
RT: 2.41 min Scan# 411
Delta R.T. 0.01 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

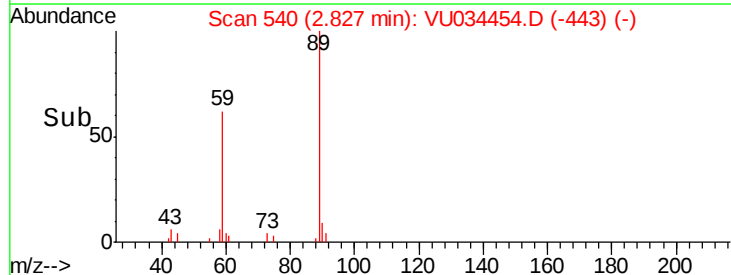
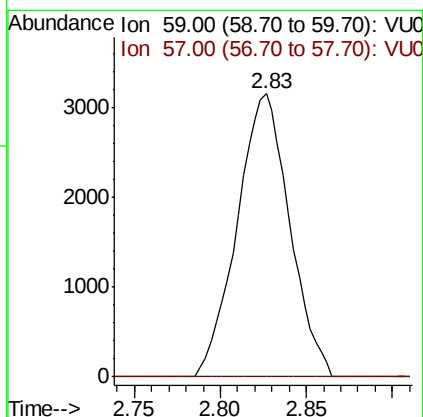
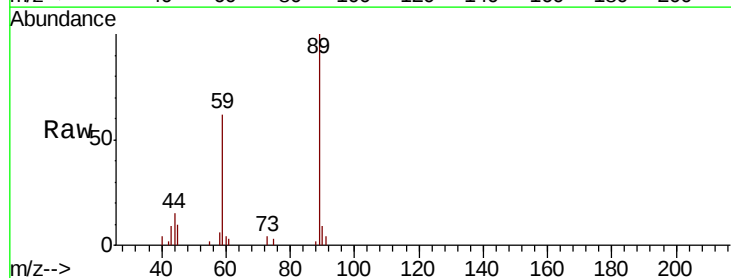
Instrument :
MSVOA_U
ClientSampleId :
T12-G4-(2.7)

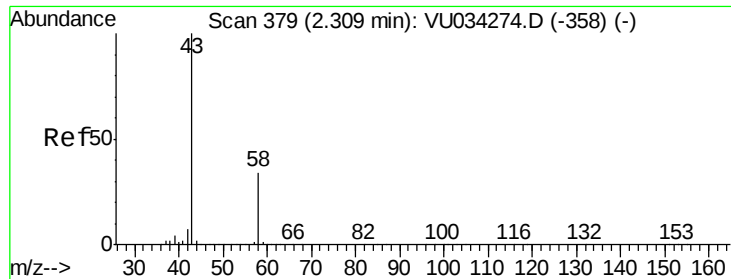
Tgt Ion: 142 Resp: 157
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 9.021 ug/l
RT: 2.83 min Scan# 540
Delta R.T. 0.01 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

Tgt Ion: 59 Resp: 6685
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

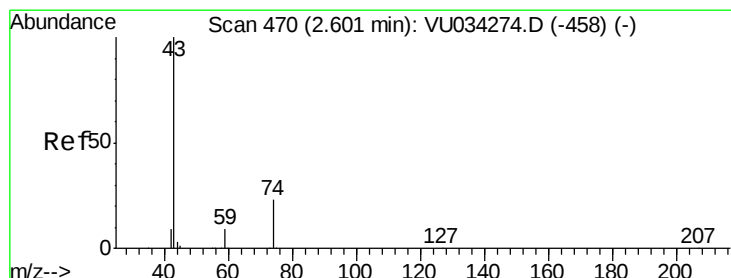
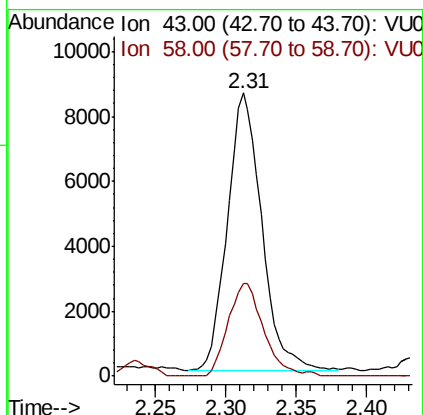
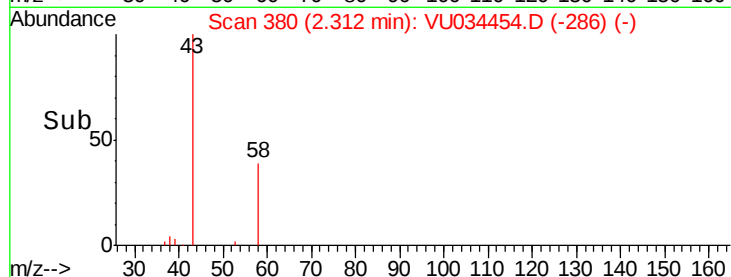
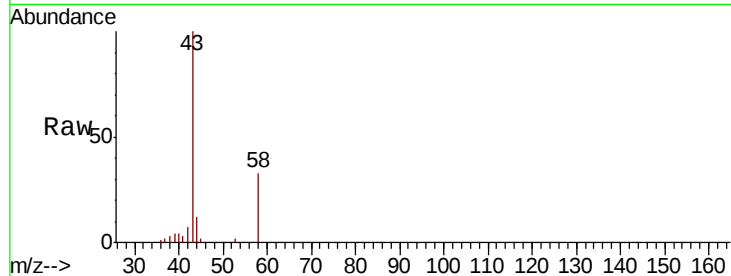




#16
Acetone
Concen: 7.990 ug/l
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

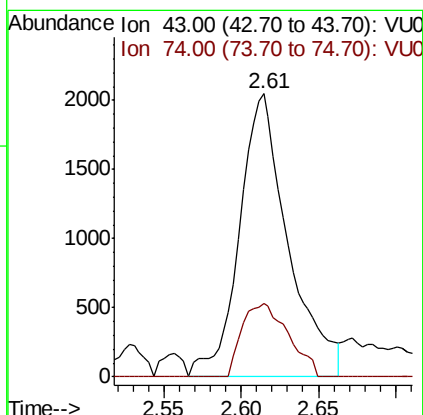
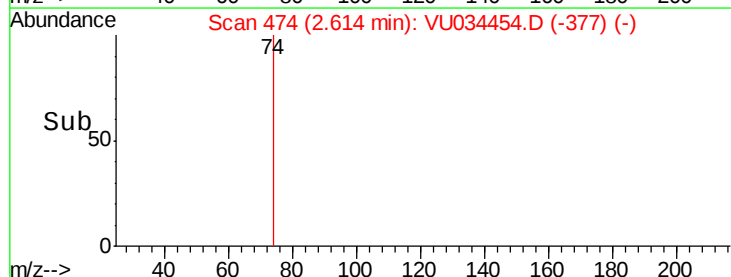
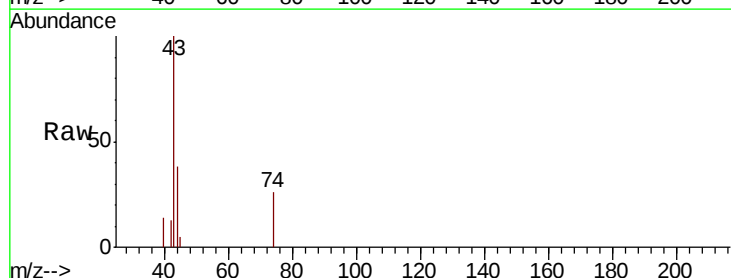
Instrument :
MSVOA_U
ClientSampleId :
T12-G4-(2.7)

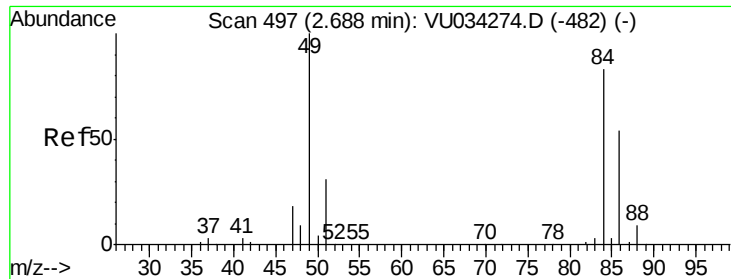
Tgt Ion: 43 Resp: 14503
Ion Ratio Lower Upper
43 100
58 33.6 27.6 41.4



#18
Methyl Acetate
Concen: 1.020 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

Tgt Ion: 43 Resp: 4505
Ion Ratio Lower Upper
43 100
74 24.5 18.9 28.3

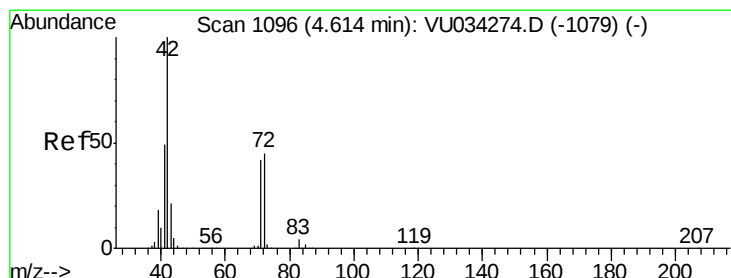
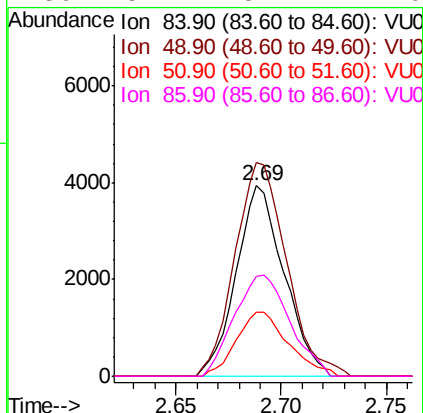
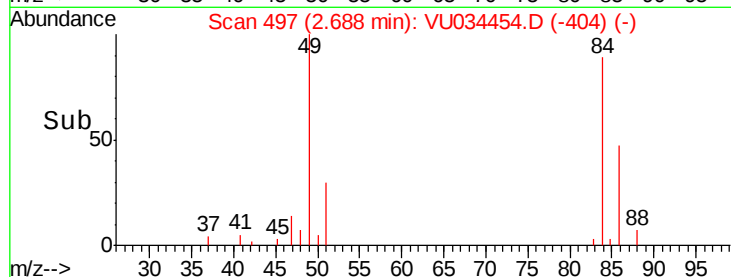
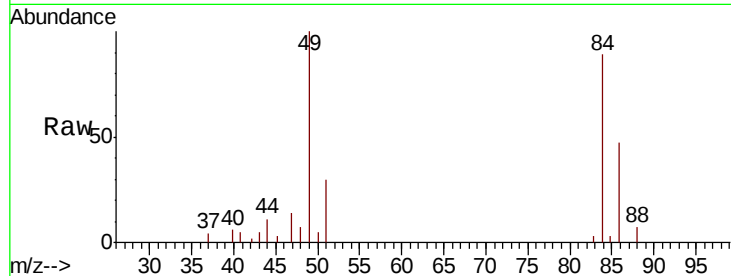




#20
Methylene Chloride
Concen: 1.706 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

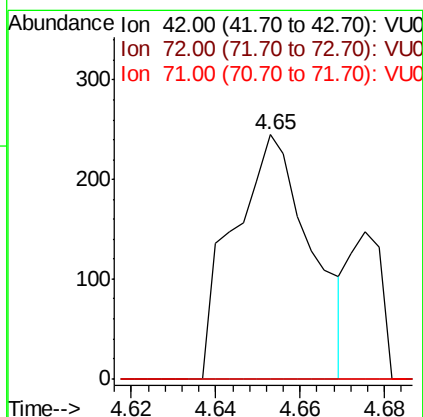
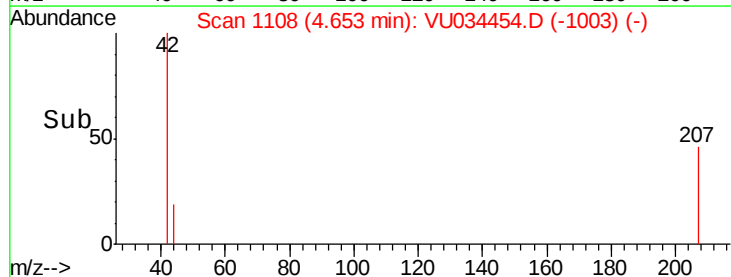
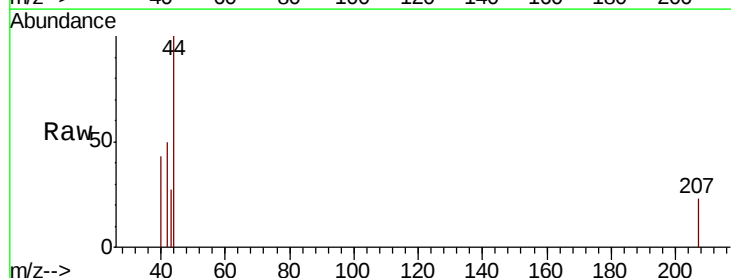
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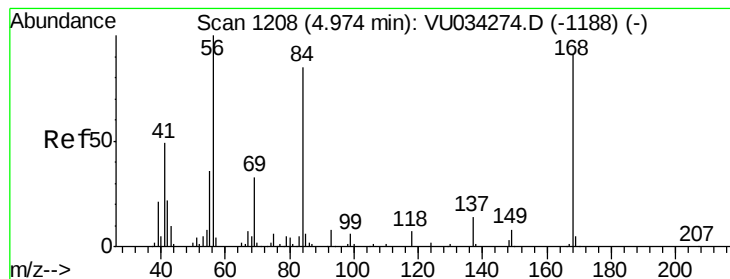
Tgt Ion: 84 Resp: 6221
Ion Ratio Lower Upper
84 100
49 112.2 96.0 144.0
51 33.9 30.0 45.0
86 52.2 51.4 77.0



#29
Tetrahydrofuran
Concen: 0.211 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.04 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

Tgt Ion: 42 Resp: 311
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 0.0 34.3 51.5#





#31

Cyclohexane

Concen: 0.880 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)

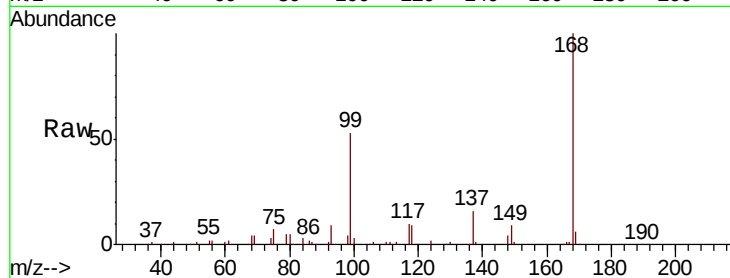
Tgt Ion: 56 Resp: 3616

Ion Ratio Lower Upper

56 100

69 209.5 26.7 40.1#

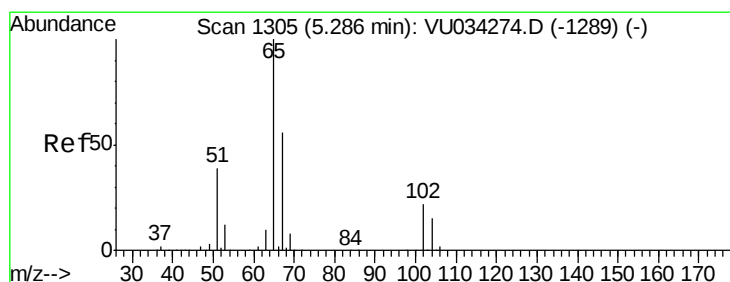
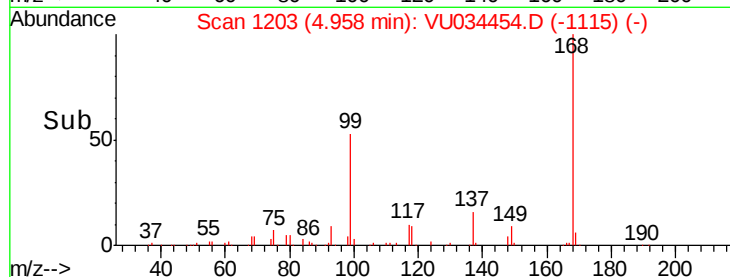
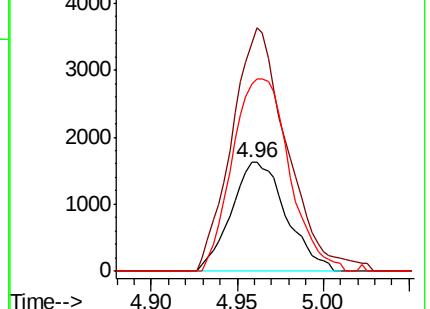
84 171.4 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034454.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034454.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034454.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 59.744 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034454.D

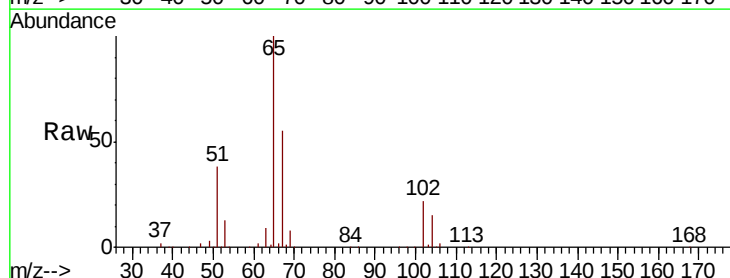
Acq: 10 Sep 2019 16:21

Tgt Ion: 65 Resp: 209557

Ion Ratio Lower Upper

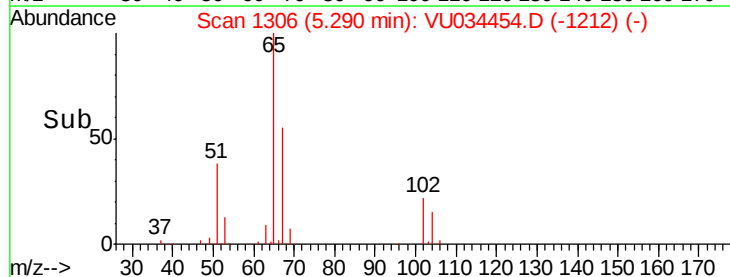
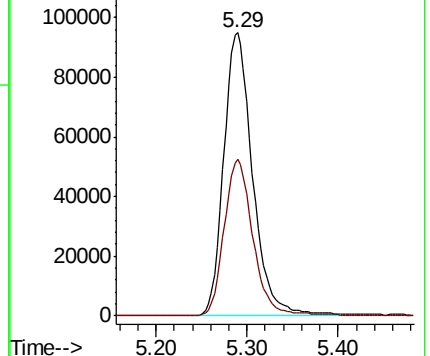
65 100

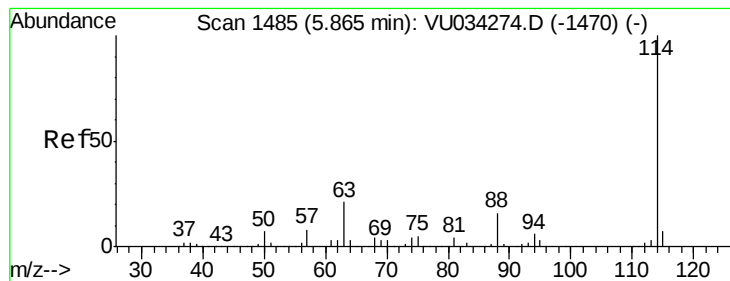
67 54.7 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034454.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034454.D (-1212) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)

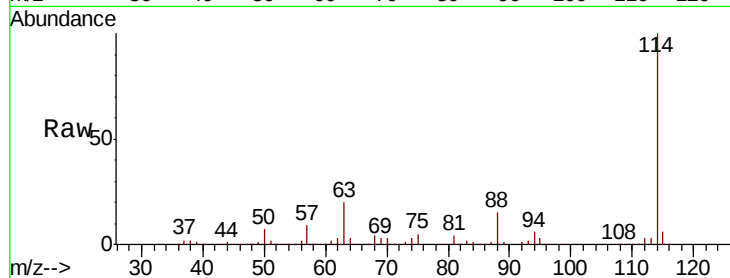
Tgt Ion:114 Resp: 366477

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.4

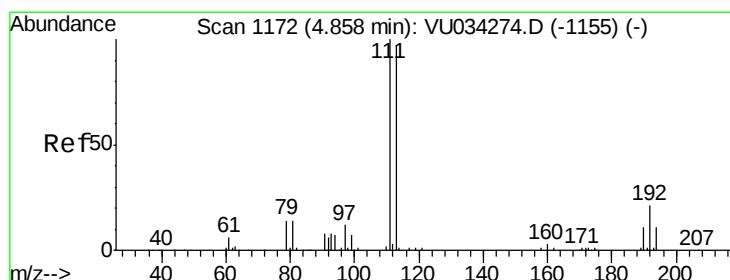
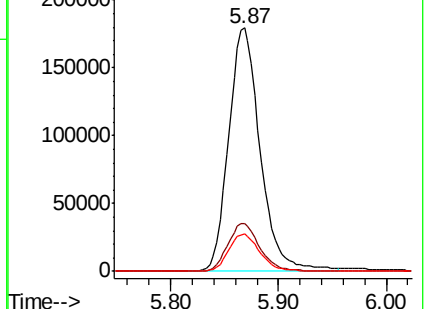
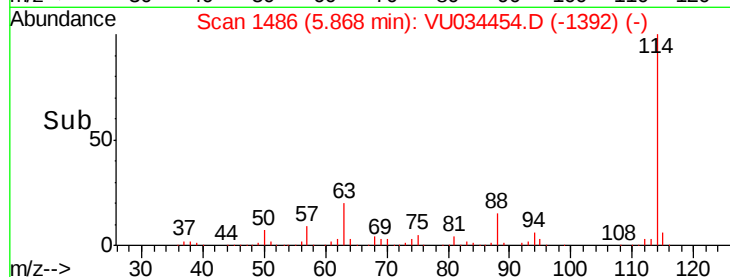
88 15.2 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 53.369 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

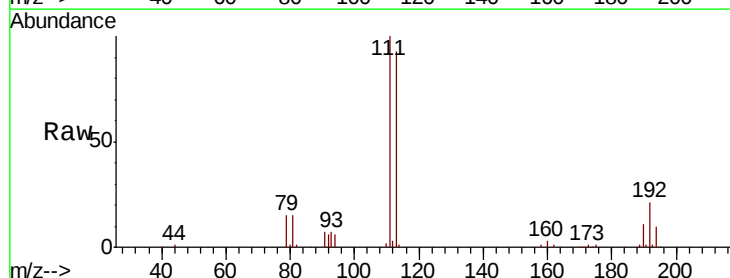
Tgt Ion:113 Resp: 181994

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

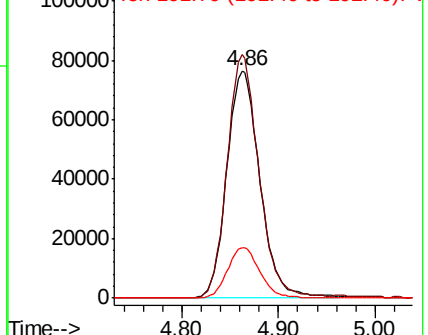
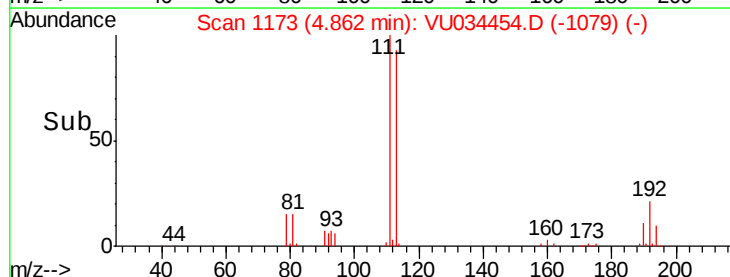
192 21.9 17.8 26.8

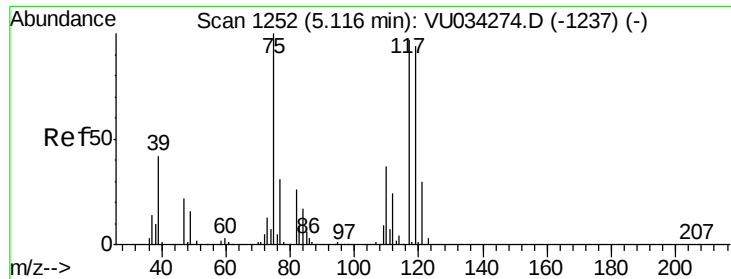


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

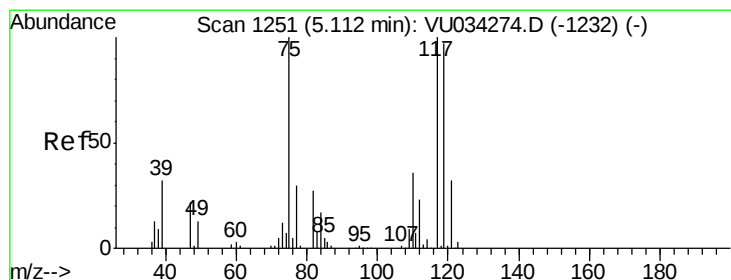
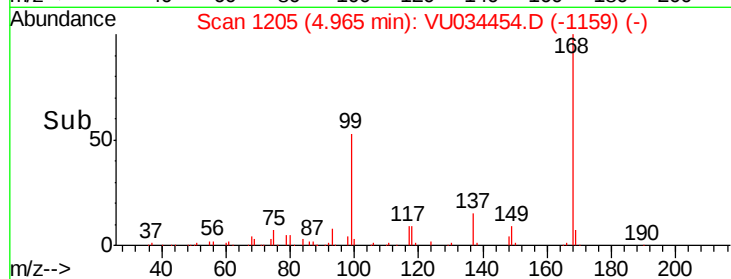
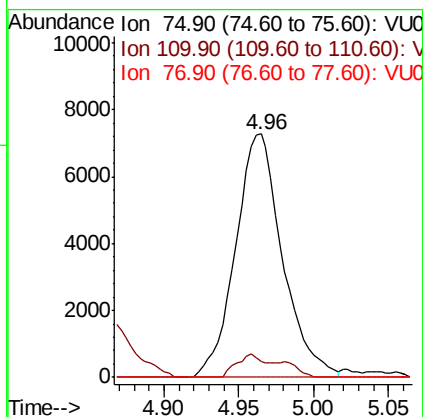
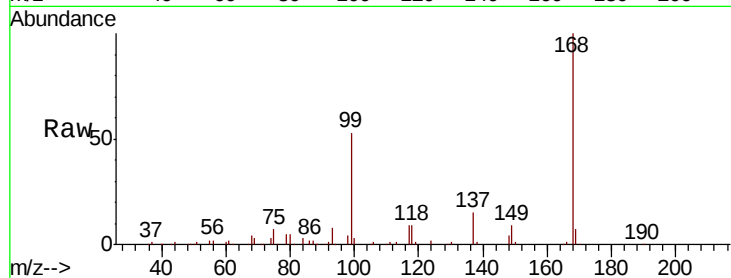




#36
 1,1-Dichloropropene
 Concen: 3.989 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034454.D
 Acq: 10 Sep 2019 16:21

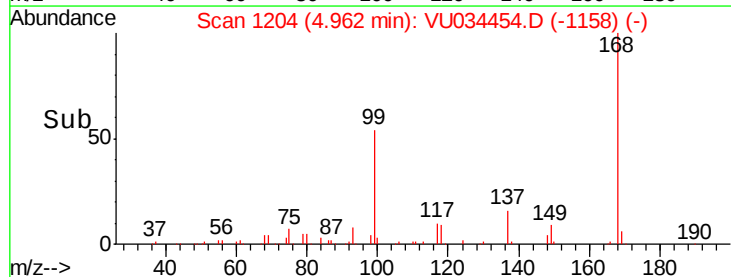
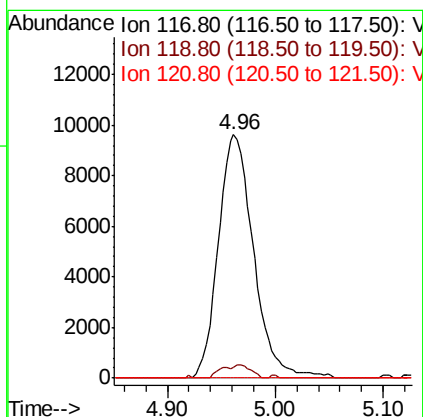
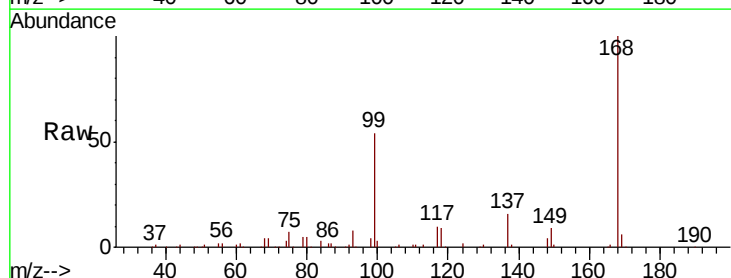
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G4-(2.7)

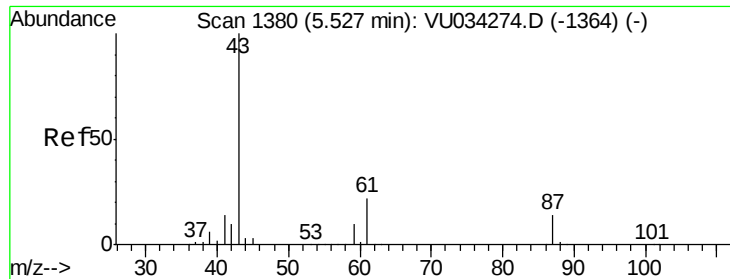
Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.8	18.3	54.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.149 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034454.D
 Acq: 10 Sep 2019 16:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	77.8	116.6#
121	0.0	25.2	37.8#





#43

Isopropyl Acetate

Concen: 6.320 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)

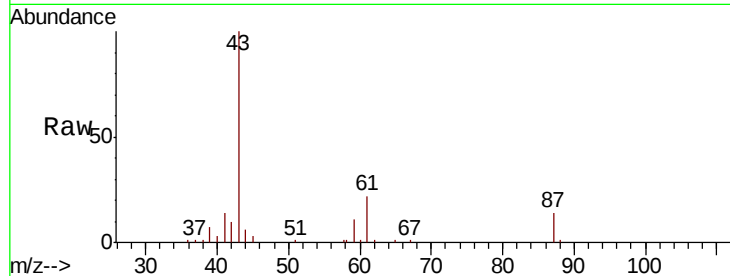
Tgt Ion: 43 Resp: 46330

Ion Ratio Lower Upper

43 100

61 20.9 17.1 25.7

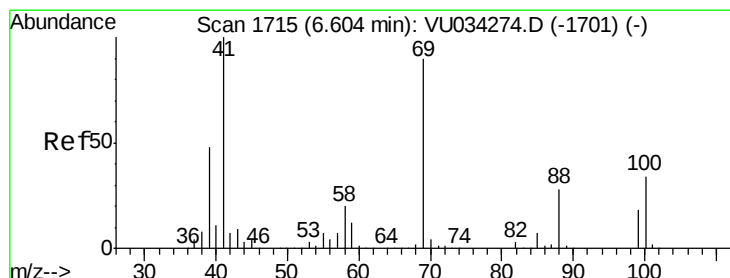
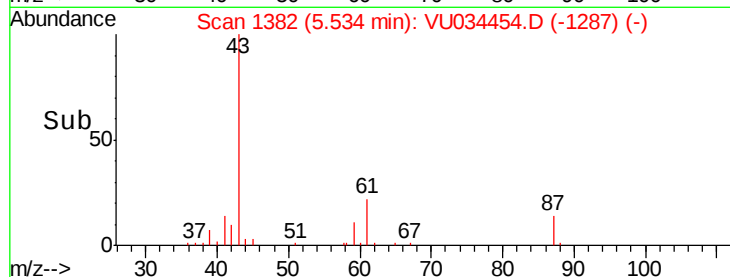
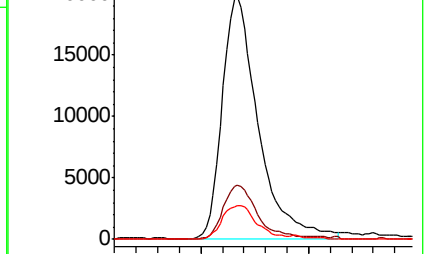
87 13.2 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034454.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034454.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034454.D (-1287) (-)



#48

Methyl methacrylate

Concen: 17.714 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

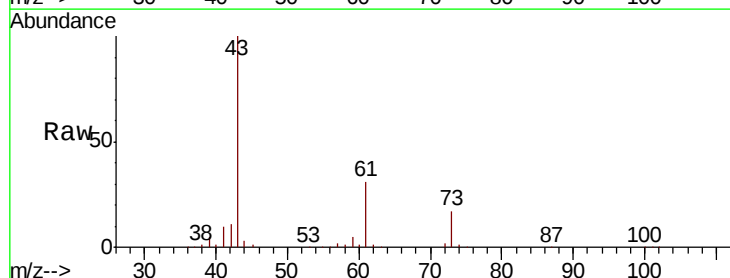
Tgt Ion: 41 Resp: 61675

Ion Ratio Lower Upper

41 100

69 0.1 72.8 109.2#

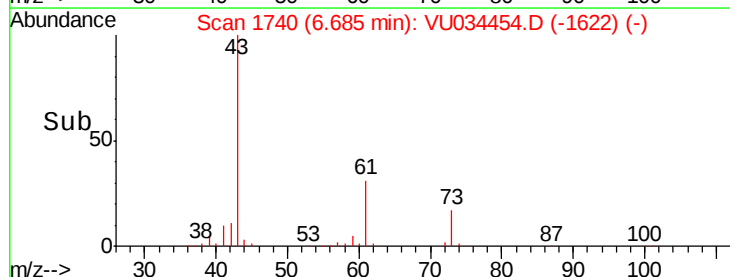
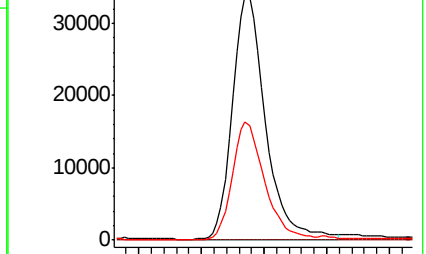
39 47.6 38.6 58.0

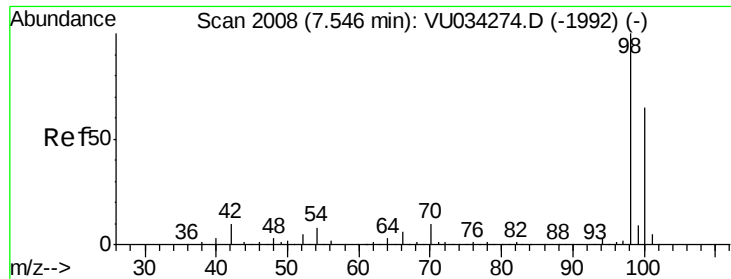


Abundance Ion 41.00 (40.70 to 41.70): VU034454.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034454.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034454.D (-1622) (-)

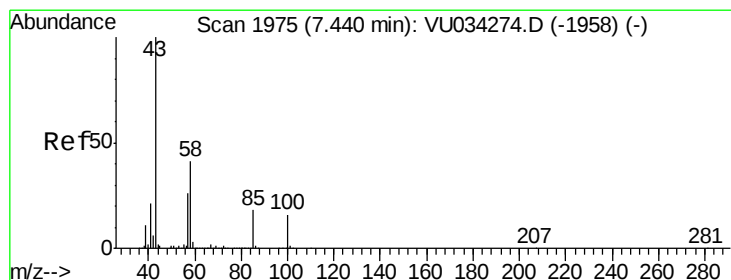
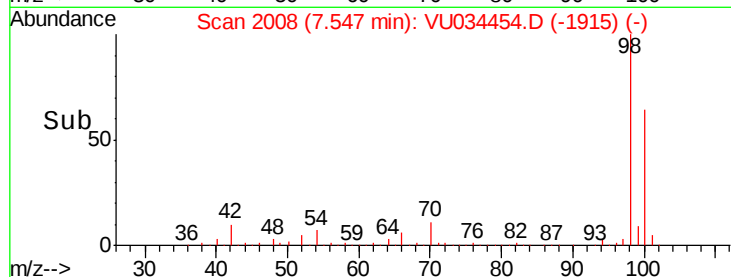
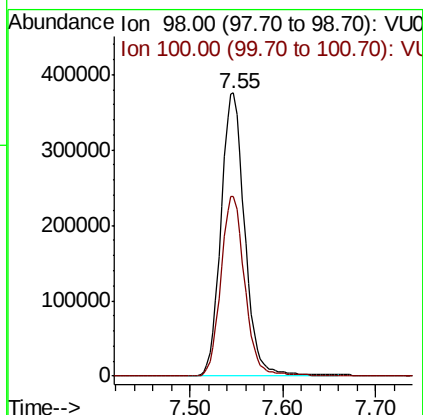
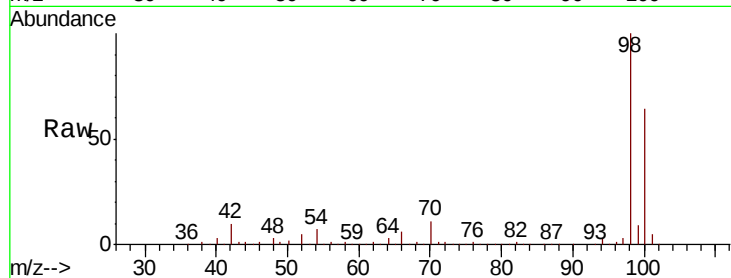




#50
Toluene-d8
Concen: 52.349 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

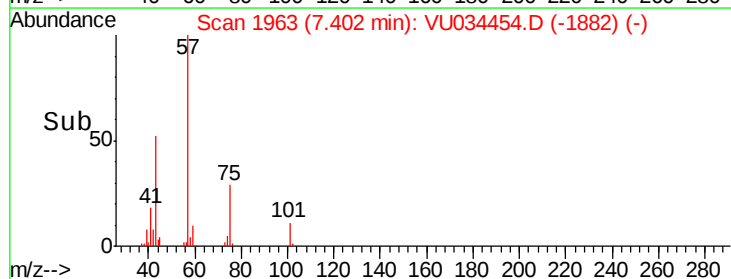
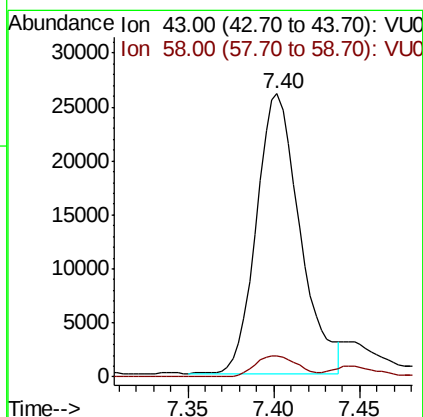
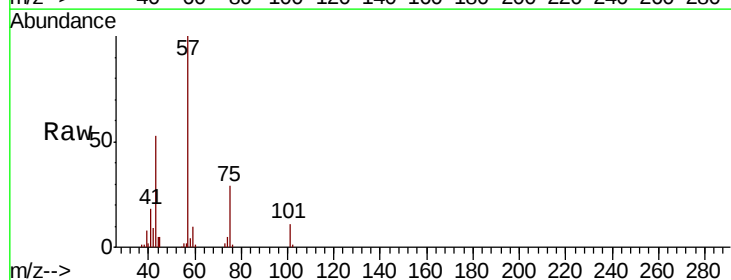
Instrument :
MSVOA_U
ClientSampleId :
T12-G4-(2.7)

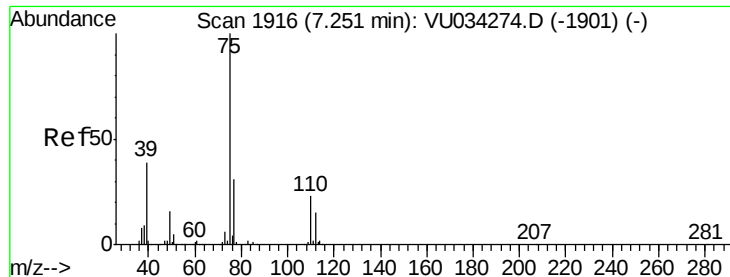
Tgt Ion: 98 Resp: 670682
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 8.987 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034454.D
Acq: 10 Sep 2019 16:21

Tgt Ion: 43 Resp: 45602
Ion Ratio Lower Upper
43 100
58 7.4 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.423 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)

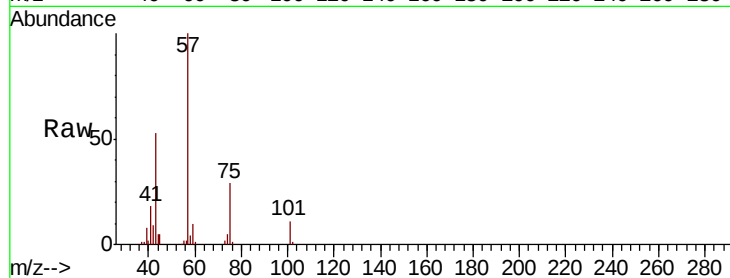
Tgt Ion: 75 Resp: 24379

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

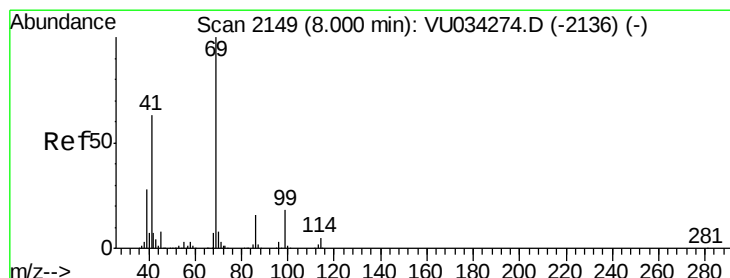
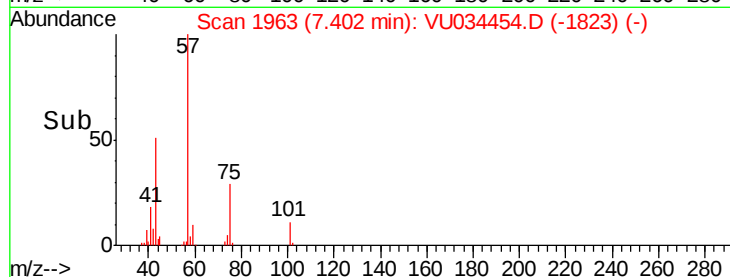
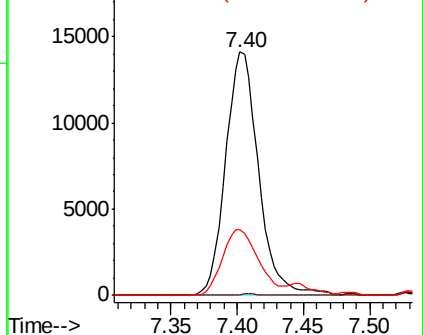
39 27.1 31.2 46.8#



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



#56

Ethyl methacrylate

Concen: 3.089 ug/l

RT: 8.02 min Scan# 2154

Delta R.T. 0.02 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

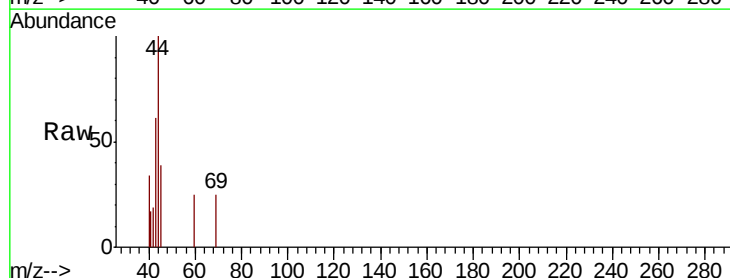
Tgt Ion: 69 Resp: 76

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

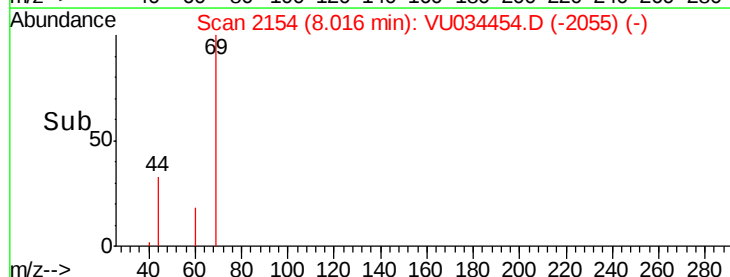
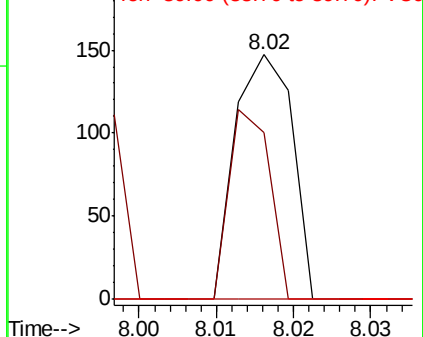
39 0.0 22.5 33.7#

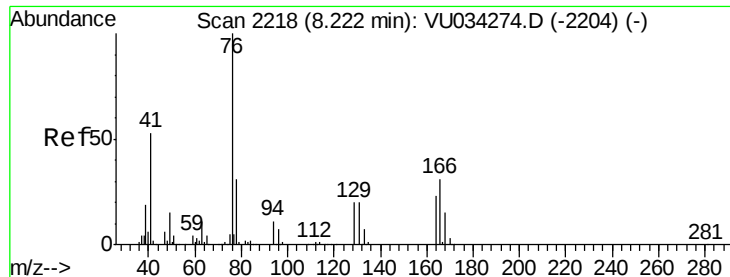


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 0.583 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

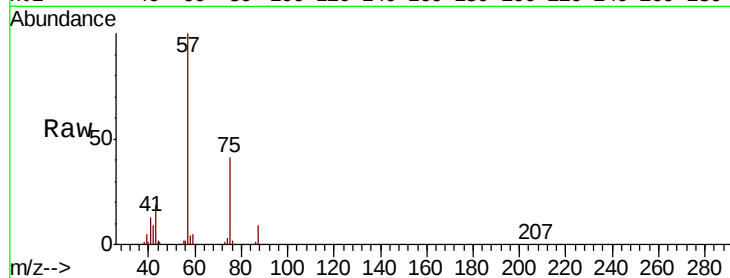
T12-G4-(2.7)

Tgt Ion: 76 Resp: 3467

Ion Ratio Lower Upper

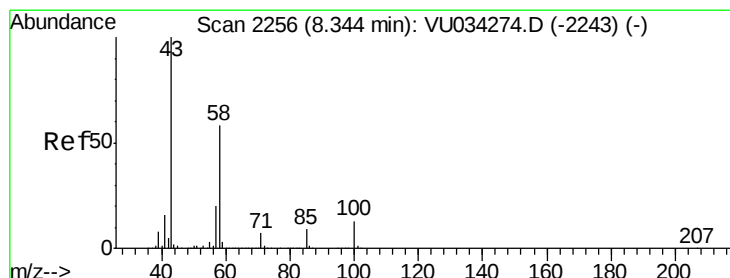
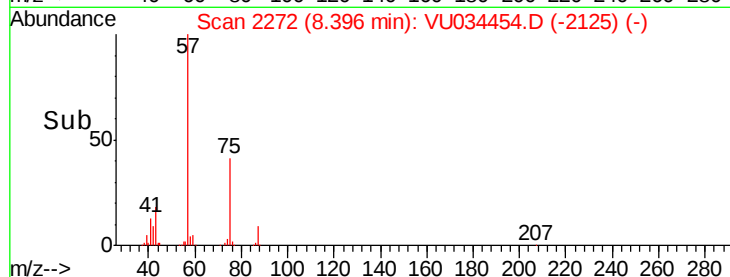
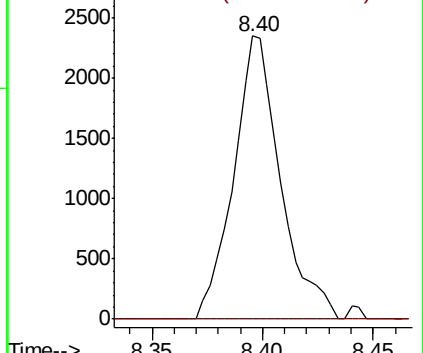
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 11.676 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034454.D

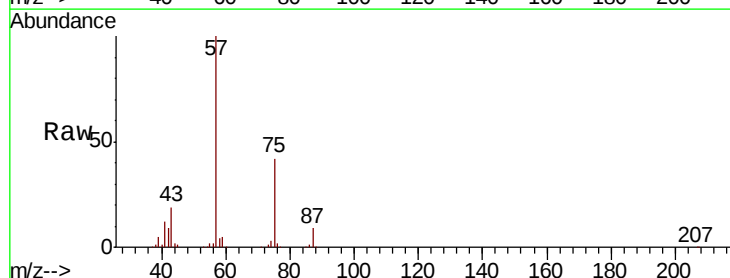
Acq: 10 Sep 2019 16:21

Tgt Ion: 43 Resp: 44262

Ion Ratio Lower Upper

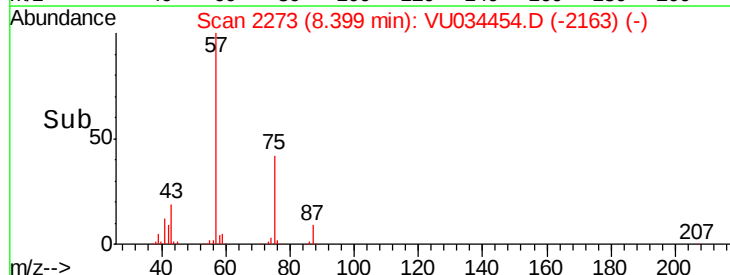
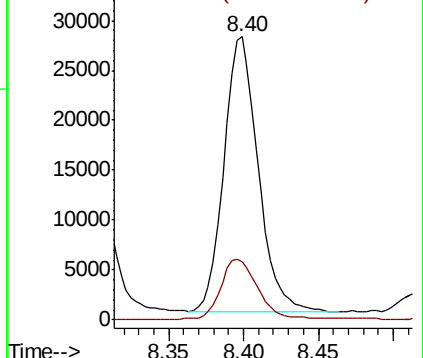
43 100

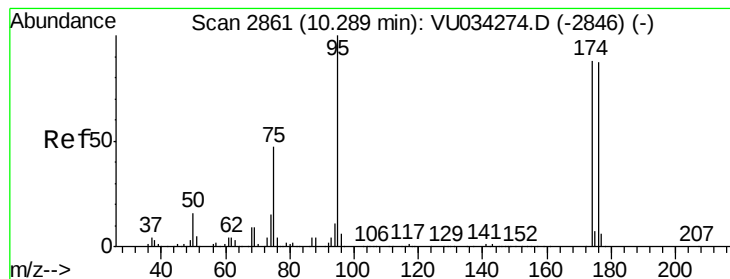
58 24.1 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 46.031 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)

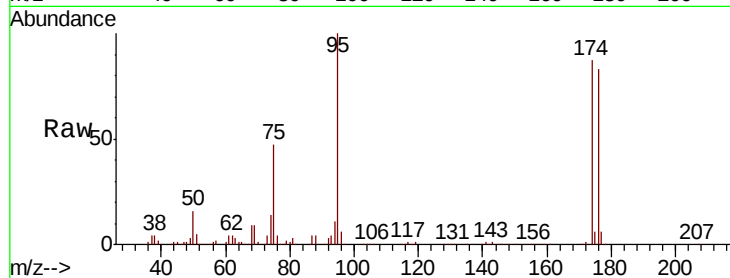
Tgt Ion: 95 Resp: 227695

Ion Ratio Lower Upper

95 100

174 88.6 0.0 175.2

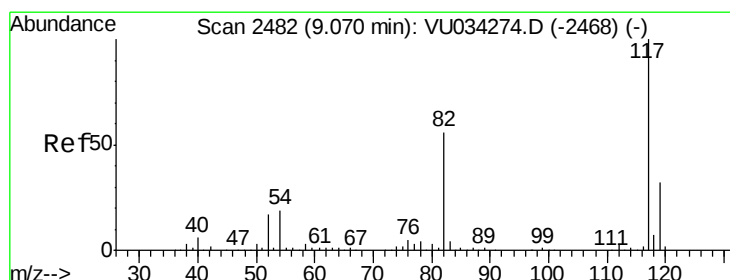
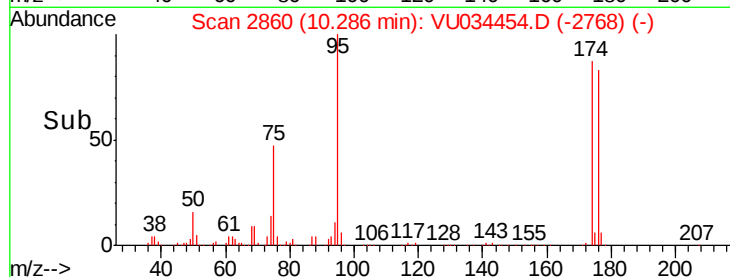
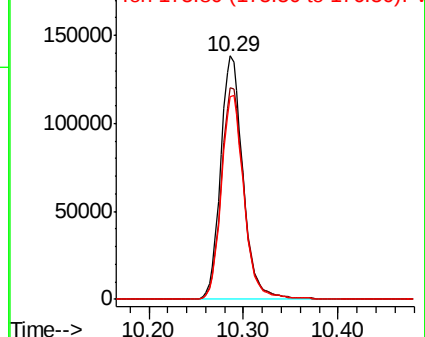
176 84.5 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034454.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034454.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034454.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2481

Delta R.T. -0.00 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

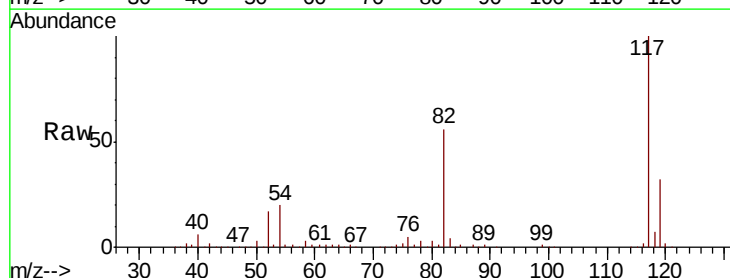
Tgt Ion: 117 Resp: 388987

Ion Ratio Lower Upper

117 100

82 56.1 44.6 67.0

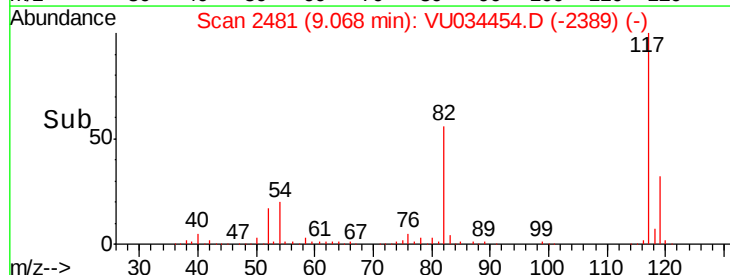
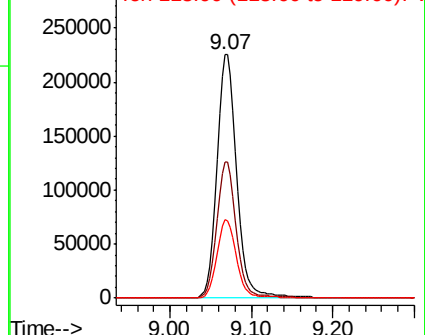
119 32.1 25.9 38.9

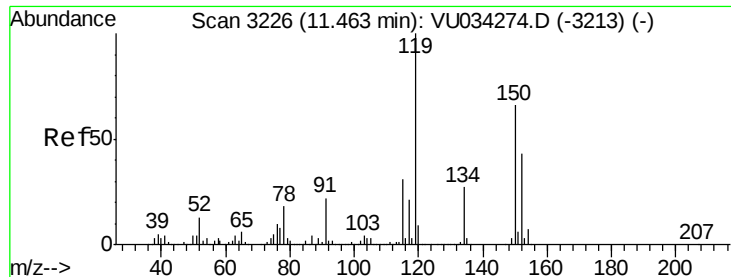


Abundance Ion 116.90 (116.60 to 117.60): VU034454.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034454.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034454.D (-2389) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)

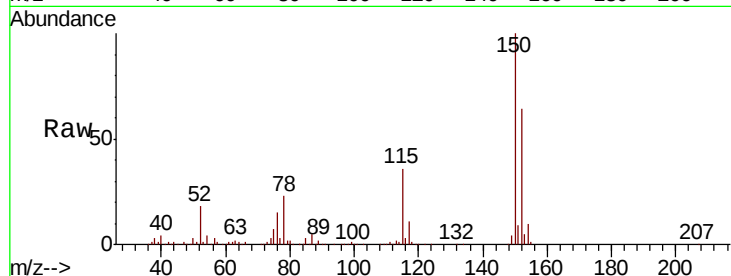
Tgt Ion:152 Resp: 210866

Ion Ratio Lower Upper

152 100

115 56.0 39.1 117.3

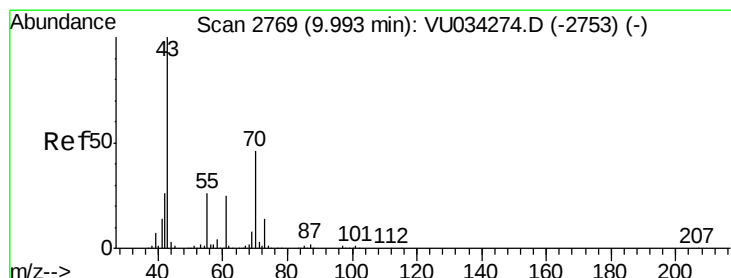
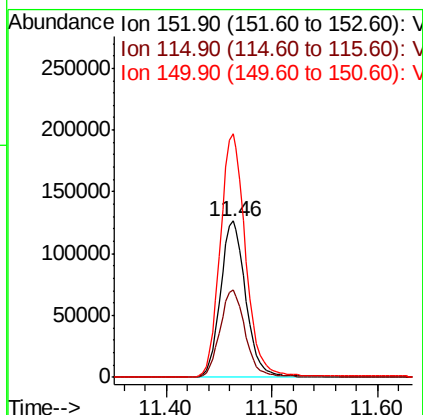
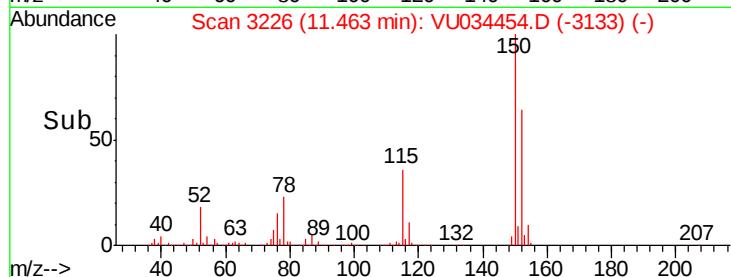
150 155.8 0.0 345.4



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: 0.207 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Tgt Ion: 43 Resp: 1146

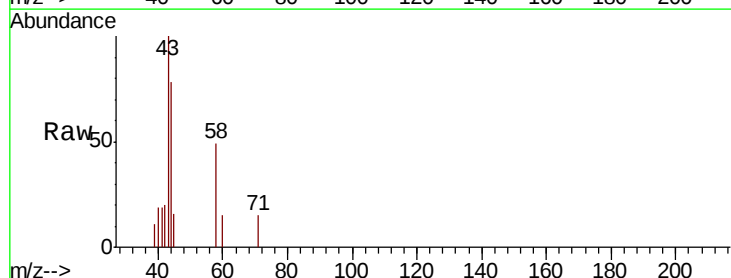
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 0.0 21.2 31.8#

61 0.0 20.4 30.6#

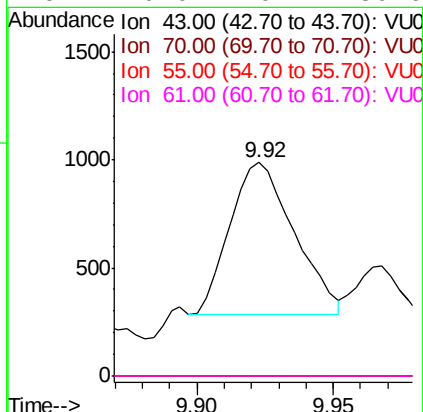
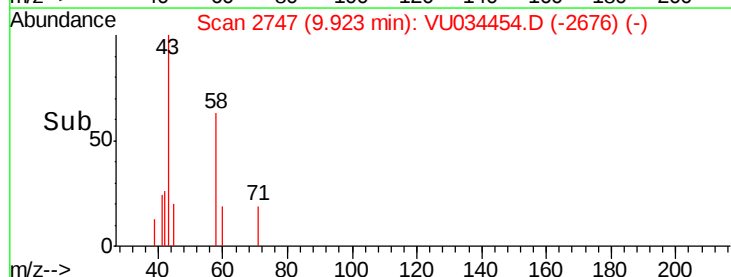


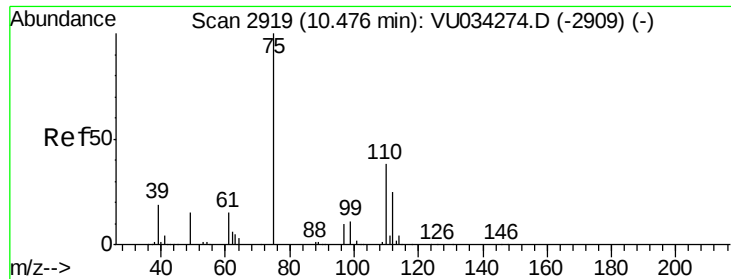
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 23.435 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

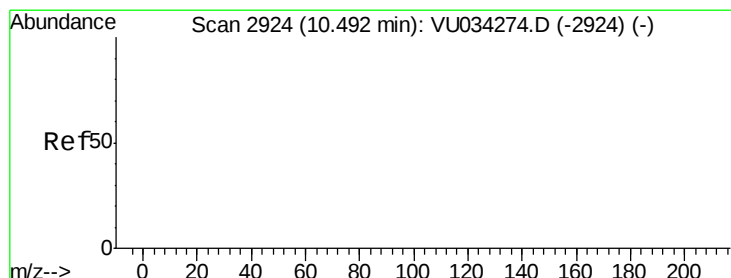
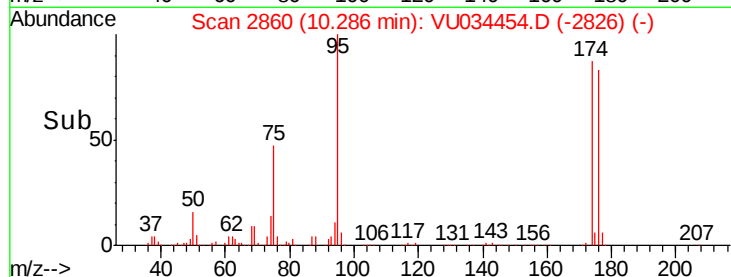
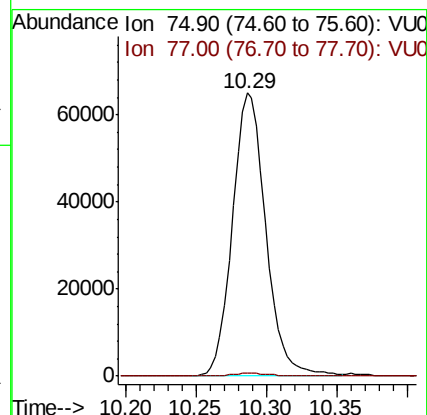
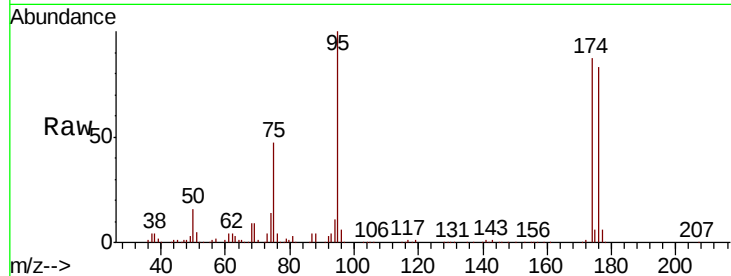
T12-G4-(2.7)

Tgt Ion: 75 Resp: 107869

Ion Ratio Lower Upper

75 100

77 1.2 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.812 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034454.D

Acq: 10 Sep 2019 16:21

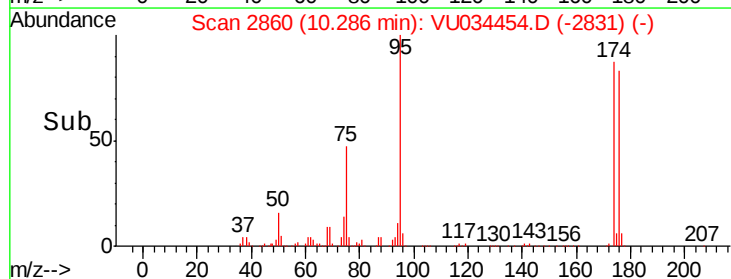
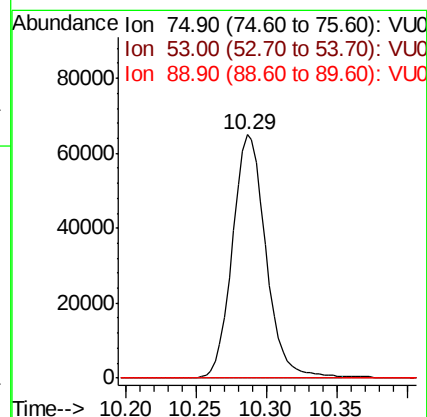
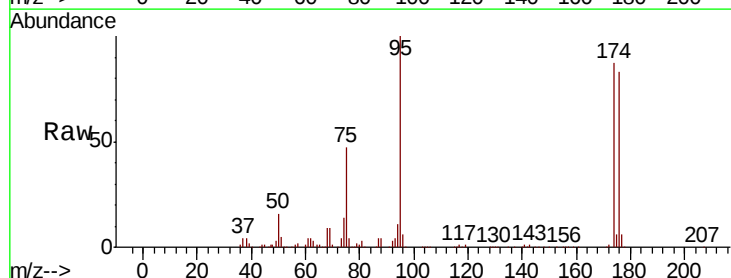
Tgt Ion: 75 Resp: 107869

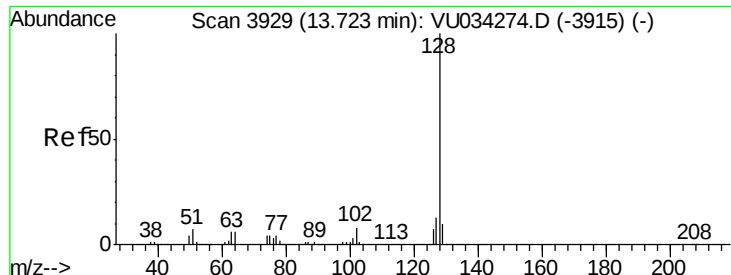
Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 3.974 ug/l

RT: 13.79 min Scan# 3950

Delta R.T. 0.07 min

Lab File: VU034454.D

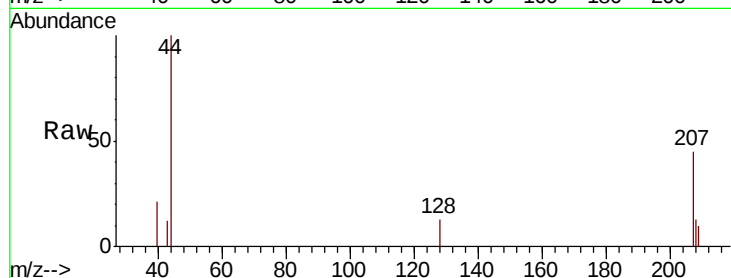
Acq: 10 Sep 2019 16:21

Instrument :

MSVOA_U

ClientSampleId :

T12-G4-(2.7)



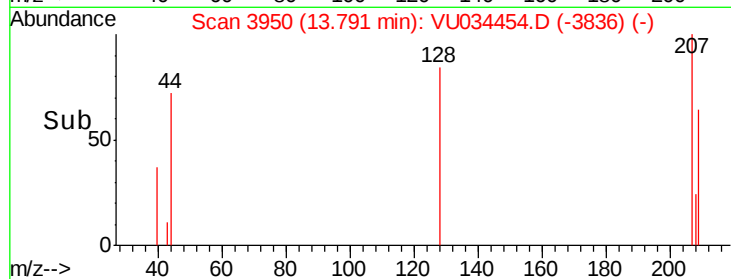
Tgt Ion:128 Resp: 121

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

