

Data File : VU034432.D
Acq On : 09 Sep 2019 14:46
Operator : JC/SP
Sample : K4602-25
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(2.7)

Quant Time: Sep 10 05:40:35 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	255878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	386177	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	400059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	222674	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	212241	54.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.64%	
35) Dibromofluoromethane	4.86	113	186431	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
50) Toluene-d8	7.54	98	675137	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	10.29	95	232220	44.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.10%	

Target Compounds

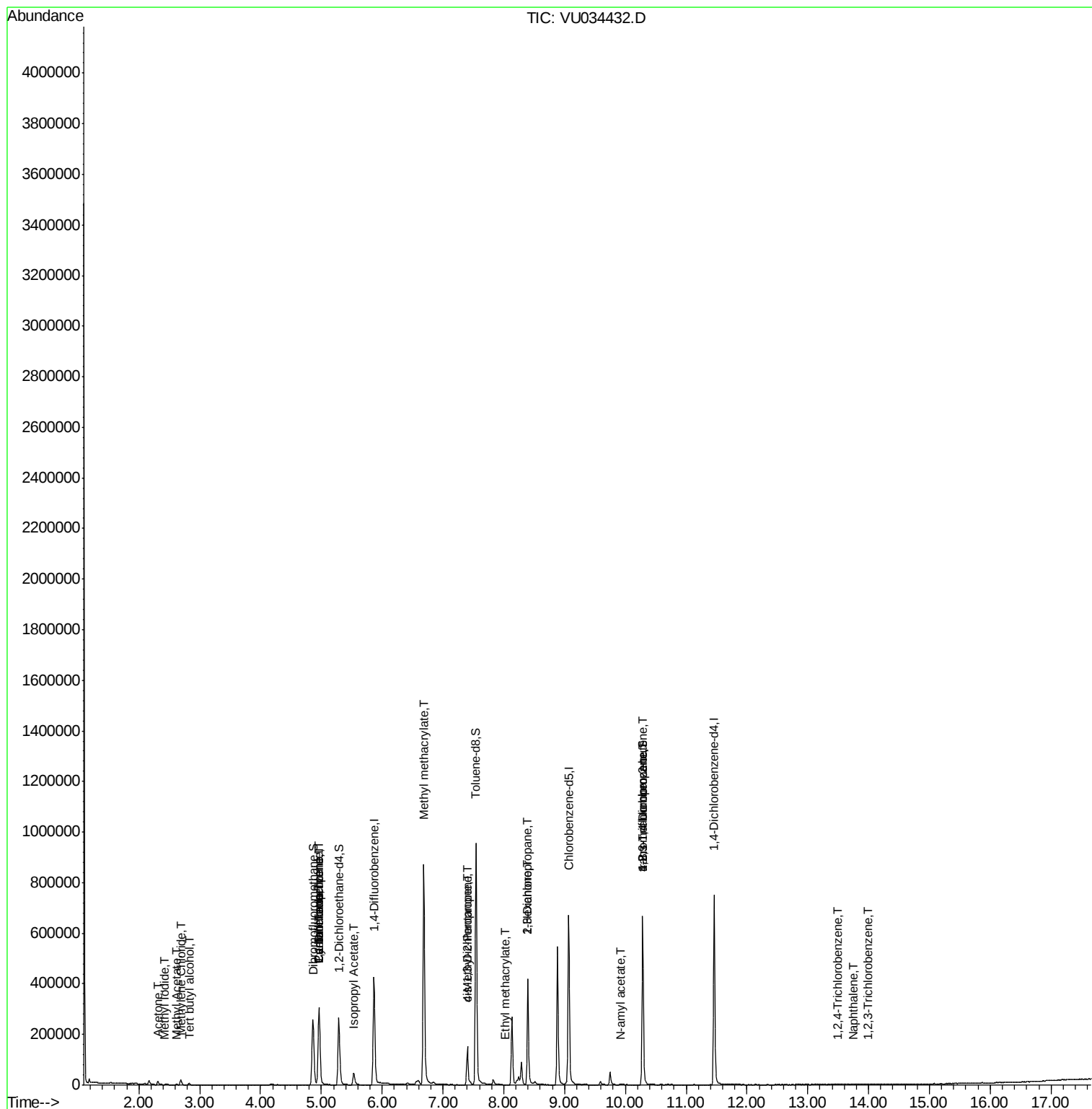
						Qvalue
5) Bromomethane	1.59	94	21	Below Cal	#	2
6) Chloroethane	1.73	64	193	Below Cal	#	43
10) Methyl Iodide	2.41	142	172	3.905	ug/l #	43
11) Tert butyl alcohol	2.82	59	3675	4.493	ug/l #	73
16) Acetone	2.31	43	14657	7.316	ug/l	89
18) Methyl Acetate	2.61	43	3044	0.624	ug/l	93
20) Methylene Chloride	2.69	84	8577	2.232	ug/l	98
31) Cyclohexane	4.96	56	4159	0.917	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16738	3.997	ug/l #	49
38) Carbon Tetrachloride	4.96	117	22888	5.118	ug/l #	16
43) Isopropyl Acetate	5.53	43	55406	7.173	ug/l	98
48) Methyl methacrylate	6.68	41	77642	21.162	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	51715	9.672	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	28120	4.842	ug/l #	65
56) Ethyl methacrylate	8.02	69	61	3.086	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	4374	0.698	ug/l #	43
59) 2-Hexanone	8.40	43	55619	13.924	ug/l #	53
74) N-amyl acetate	9.92	43	1443	0.247	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	106008	21.810	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	106008	73.345	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.50	180	21	3.455	ug/l #	12
95) Naphthalene	13.76	128	652	4.006	ug/l #	73
96) 1,2,3-Trichlorobenzene	13.99	180	157	2.668	ug/l #	50

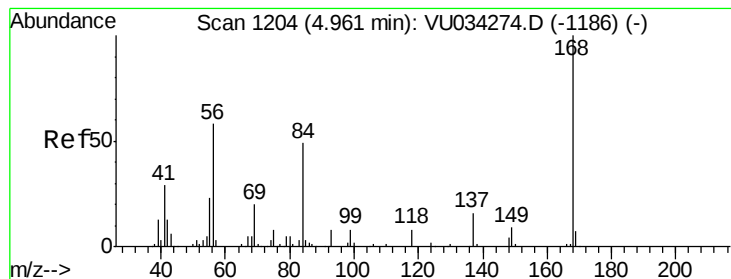
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

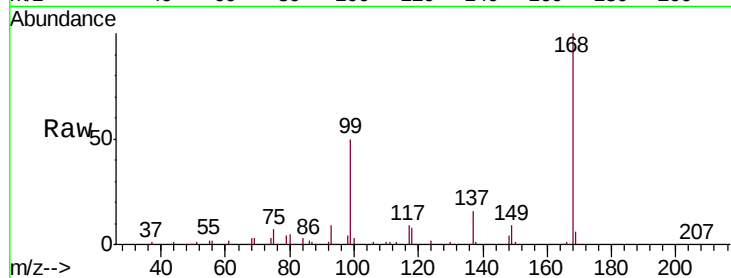
T12-G2-(2.7)

Tgt Ion:168 Resp: 255878

Ion Ratio Lower Upper

168 100

99 50.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034432.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034432.D (-1186) (-)

4.96

120000

100000

80000

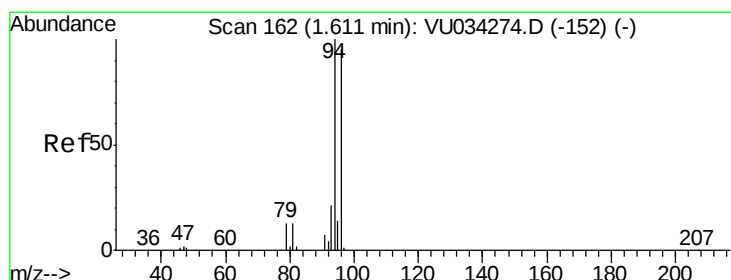
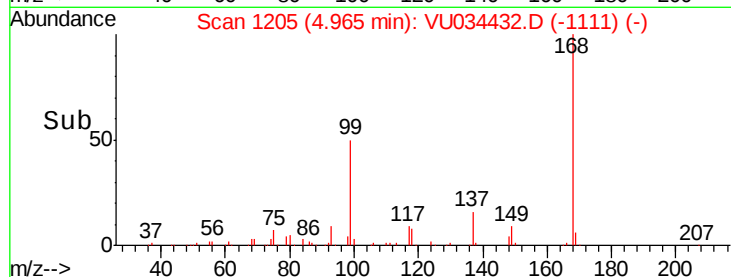
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 157

Delta R.T. -0.02 min

Lab File: VU034432.D

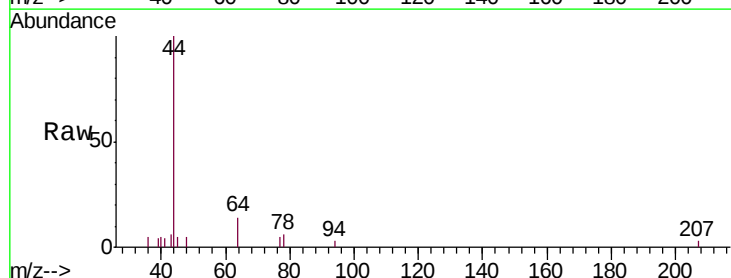
Acq: 09 Sep 2019 14:46

Tgt Ion: 94 Resp: 21

Ion Ratio Lower Upper

94 100

96 0.0 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034432.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034432.D (-152) (-)

1.59

120

100

80

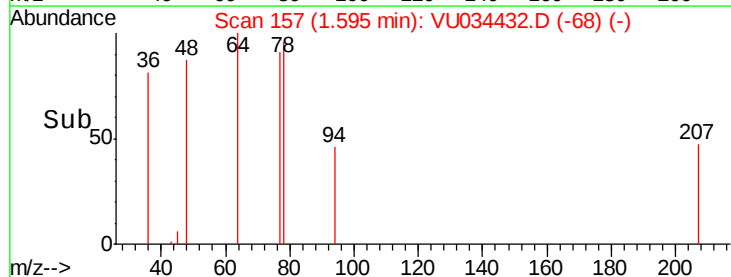
60

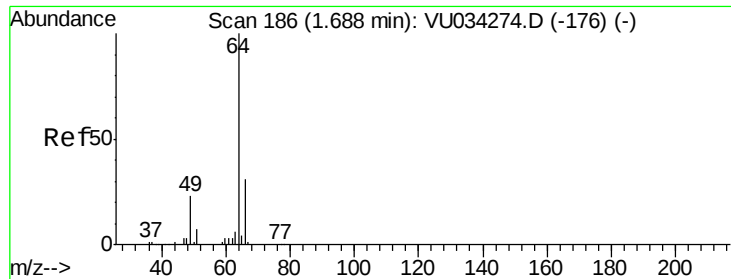
40

20

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 198

Delta R.T. 0.04 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

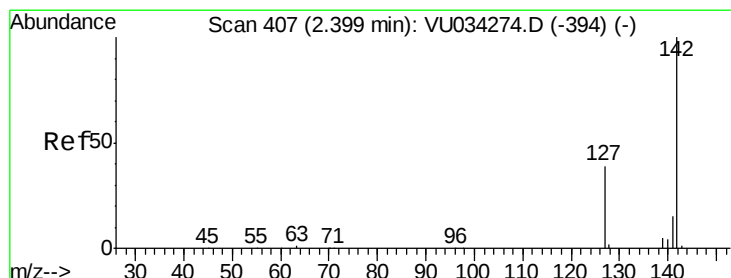
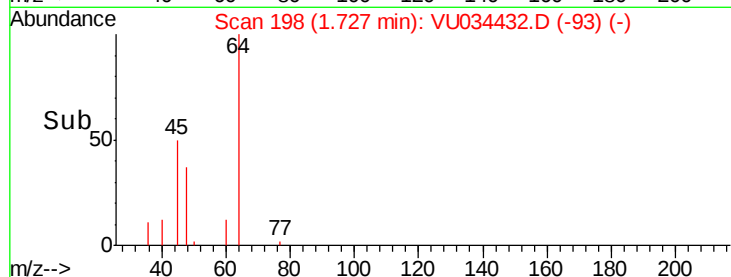
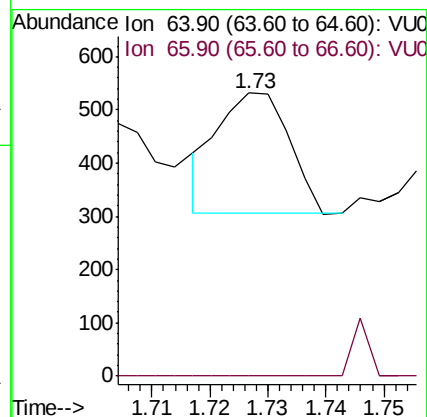
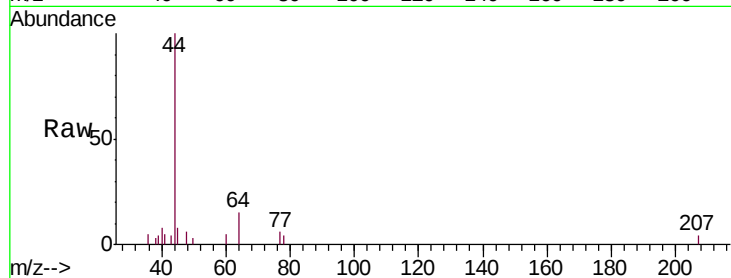
T12-G2-(2.7)

Tgt Ion: 64 Resp: 193

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.905 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

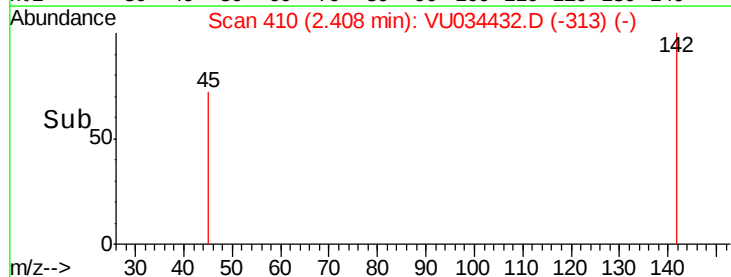
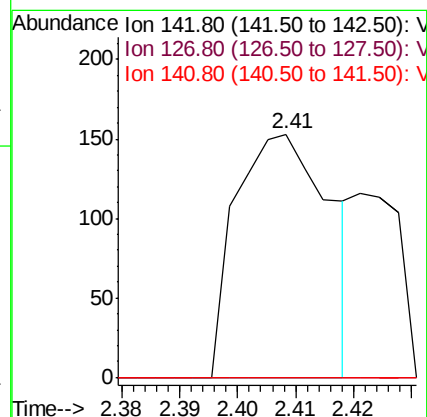
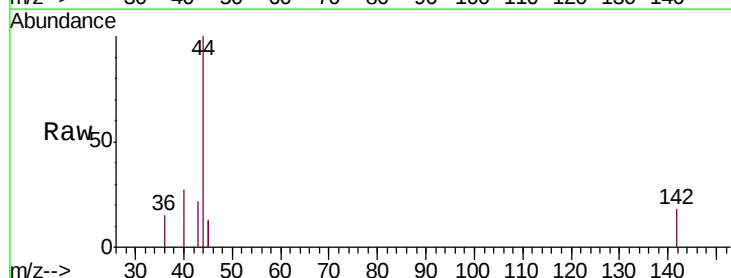
Tgt Ion: 142 Resp: 172

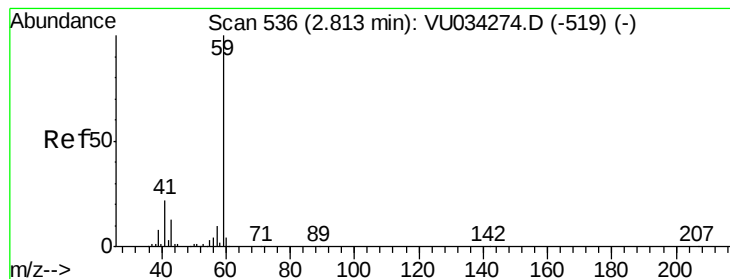
Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



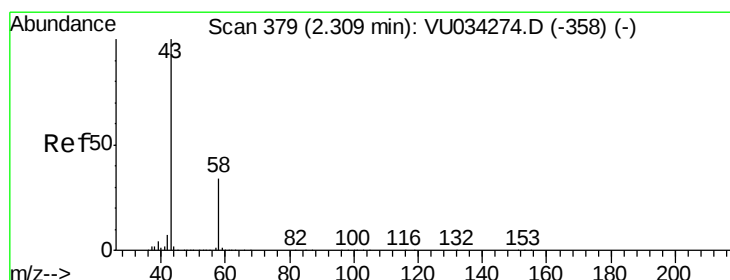
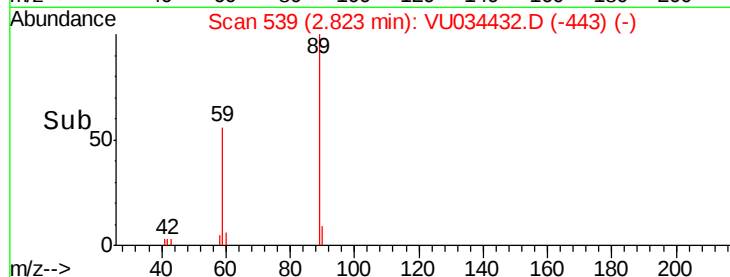
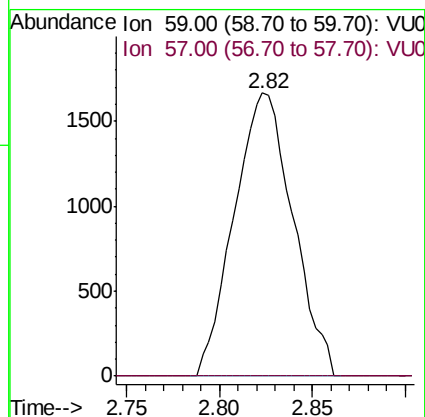
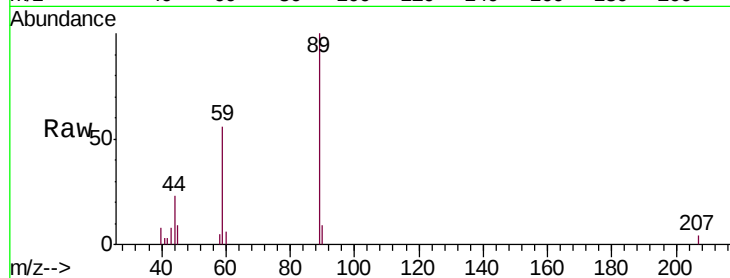


#11

Tert butyl alcohol
 Concen: 4.493 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G2-(2.7)

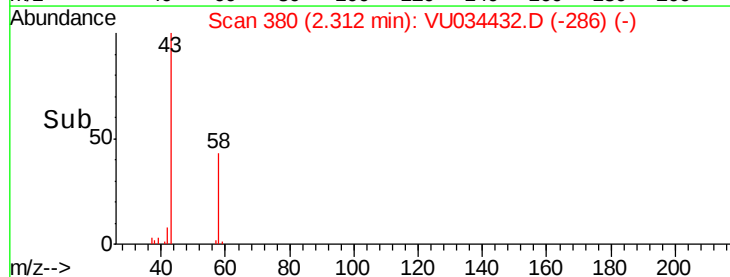
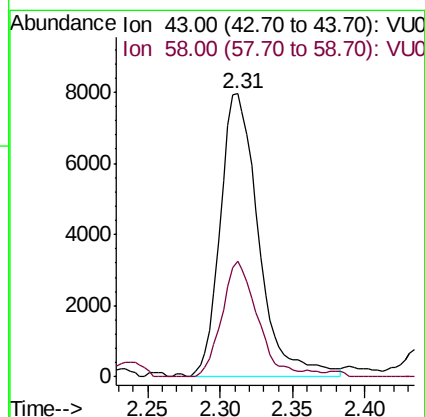
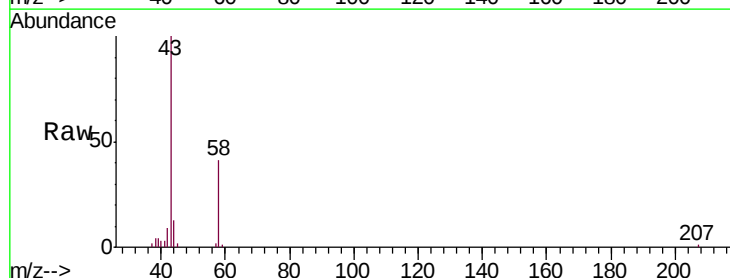
Tgt Ion: 59 Resp: 3675
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

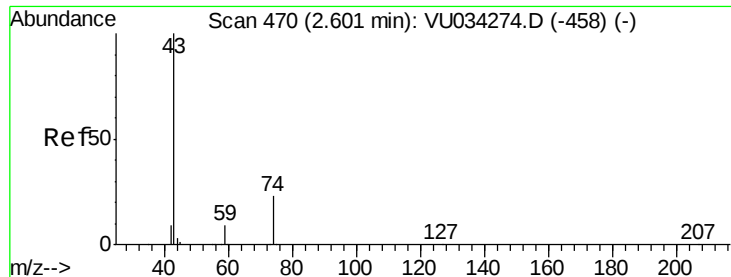


#16

Acetone
 Concen: 7.316 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Tgt Ion: 43 Resp: 14657
 Ion Ratio Lower Upper
 43 100
 58 40.9 27.6 41.4

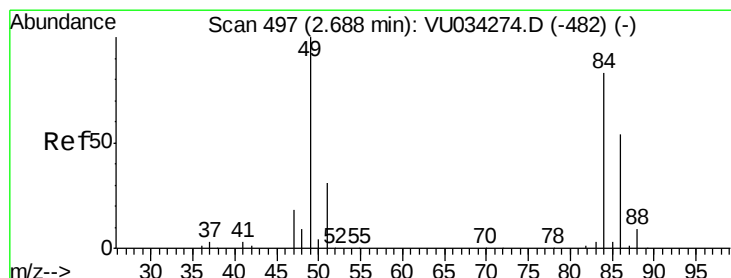
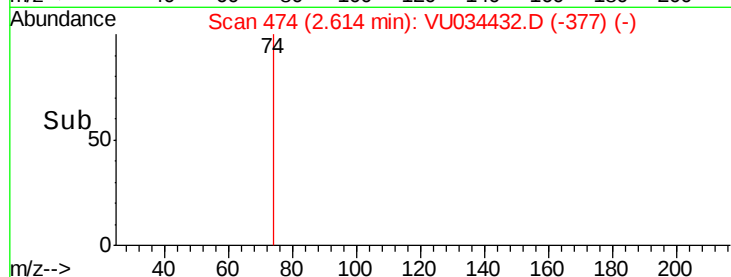
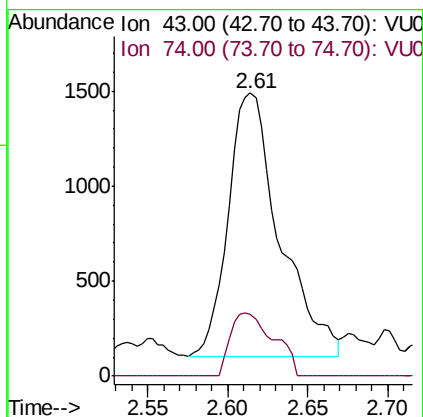
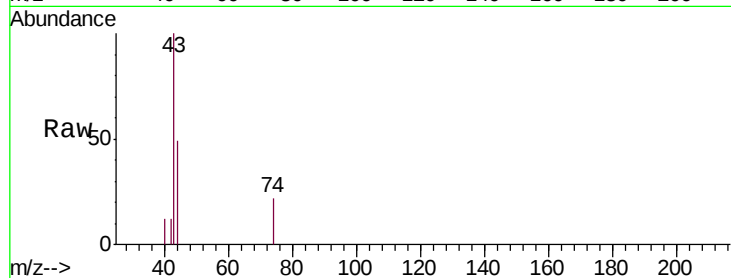




#18
Methyl Acetate
Concen: 0.624 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034432.D
Acq: 09 Sep 2019 14:46

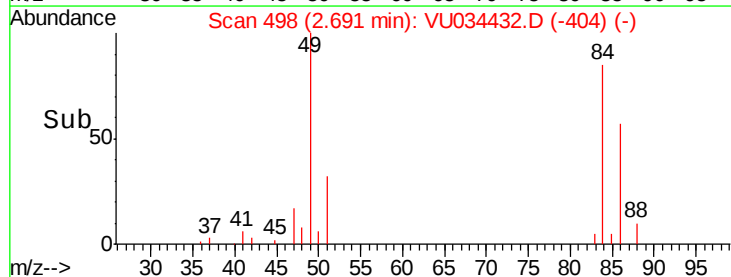
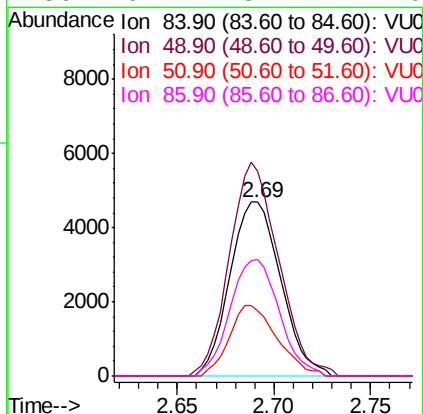
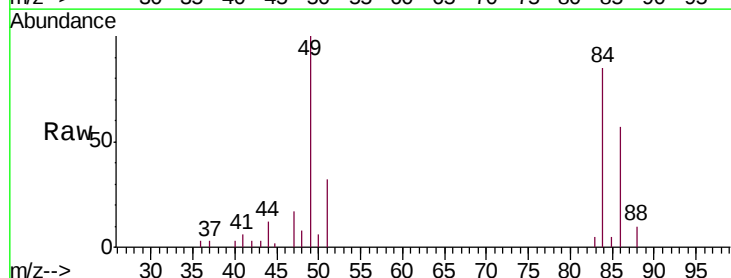
Instrument :
MSVOA_U
ClientSampleId :
T12-G2-(2.7)

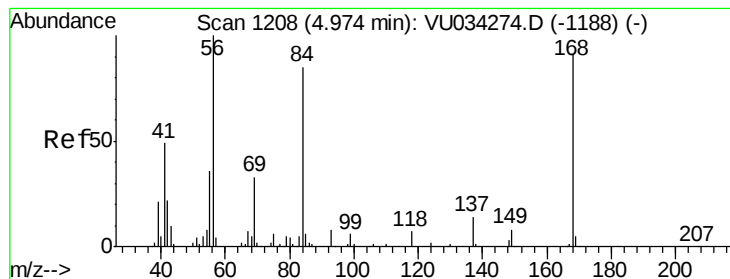
Tgt Ion: 43 Resp: 3044
Ion Ratio Lower Upper
43 100
74 20.2 18.9 28.3



#20
Methylene Chloride
Concen: 2.232 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034432.D
Acq: 09 Sep 2019 14:46

Tgt Ion: 84 Resp: 8577
Ion Ratio Lower Upper
84 100
49 118.1 96.0 144.0
51 37.8 30.0 45.0
86 67.4 51.4 77.0





#31

Cyclohexane

Concen: 0.917 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

T12-G2-(2.7)

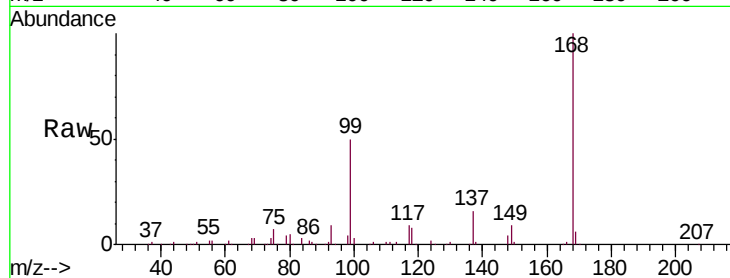
Tgt Ion: 56 Resp: 4159

Ion Ratio Lower Upper

56 100

69 201.3 26.7 40.1#

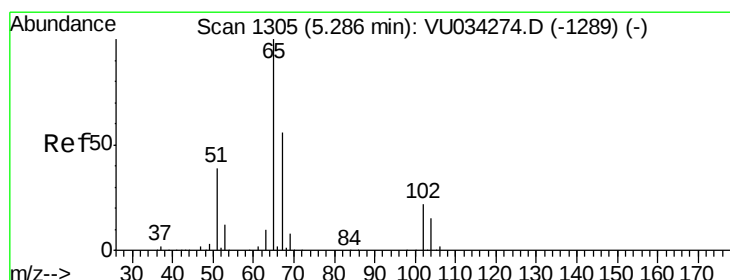
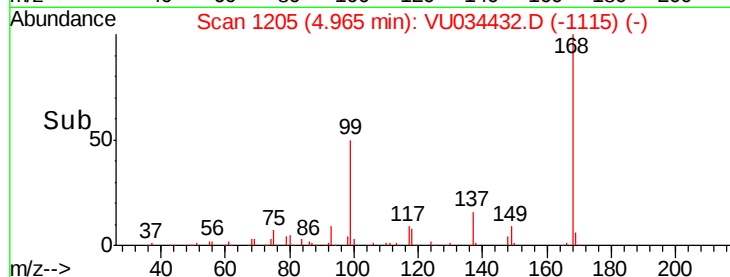
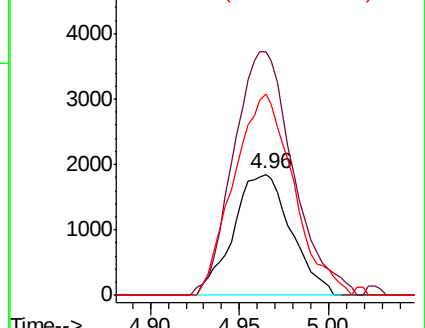
84 166.1 68.2 102.4#



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: 54.821 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034432.D

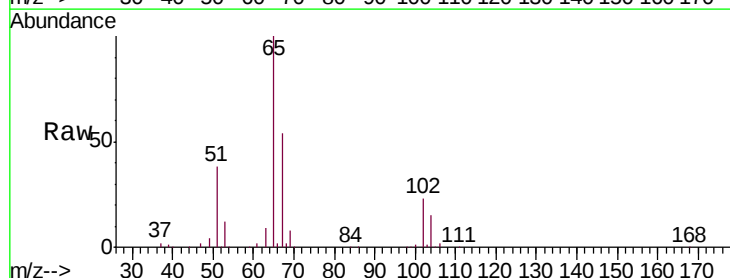
Acq: 09 Sep 2019 14:46

Tgt Ion: 65 Resp: 212241

Ion Ratio Lower Upper

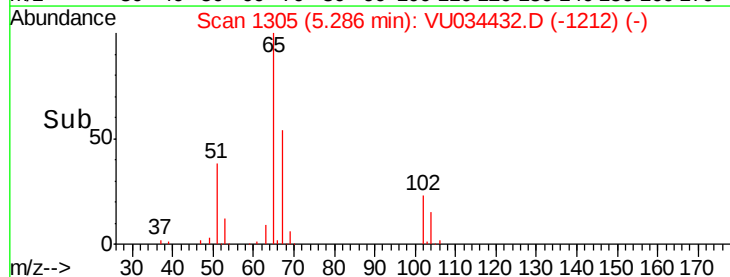
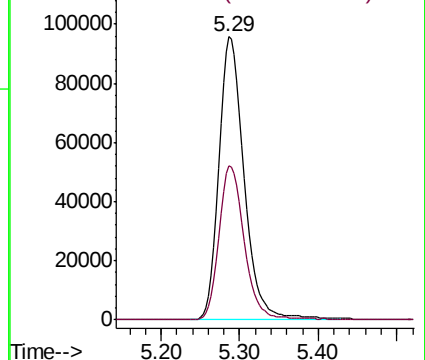
65 100

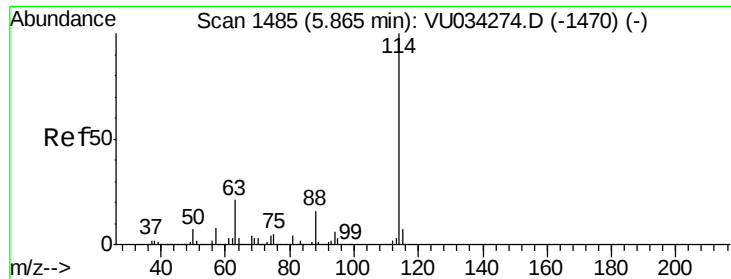
67 54.5 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

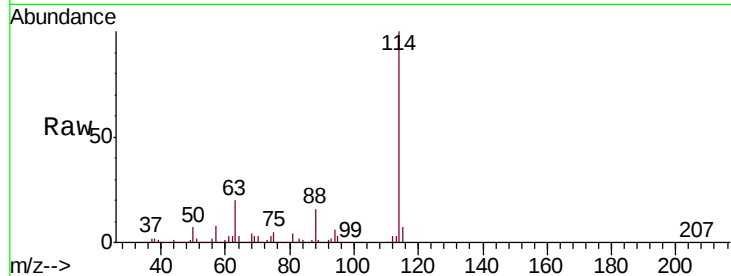




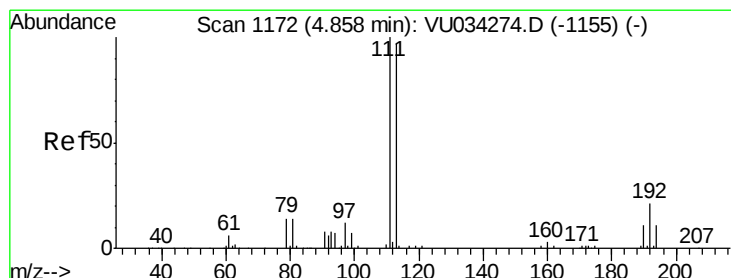
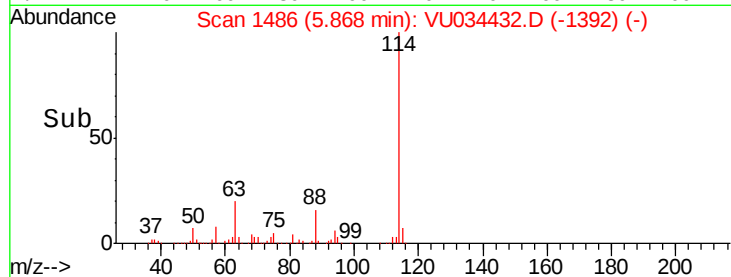
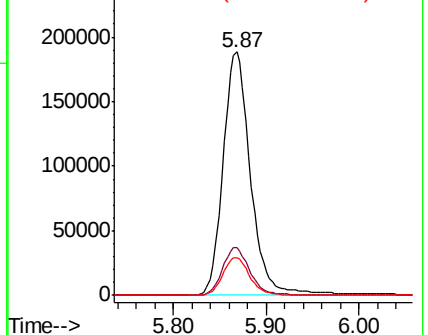
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Instrument :
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 T12-G2-(2.7)

Tgt Ion:	114	Resp:	386177
Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.4
88	15.6	0.0	32.4

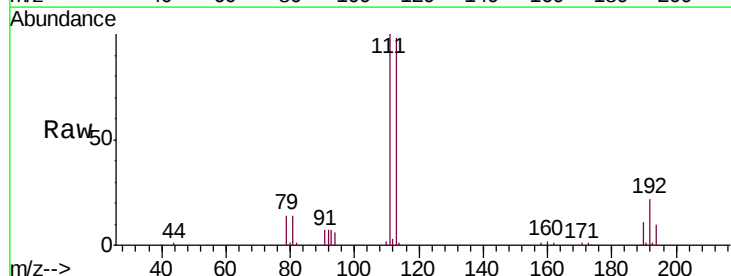


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

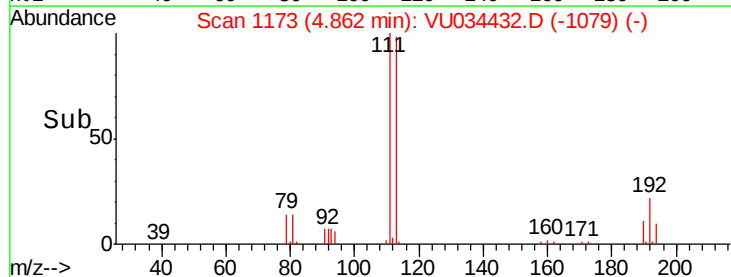
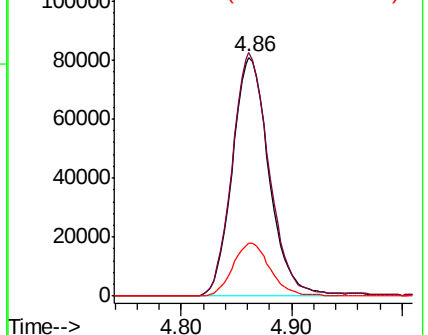


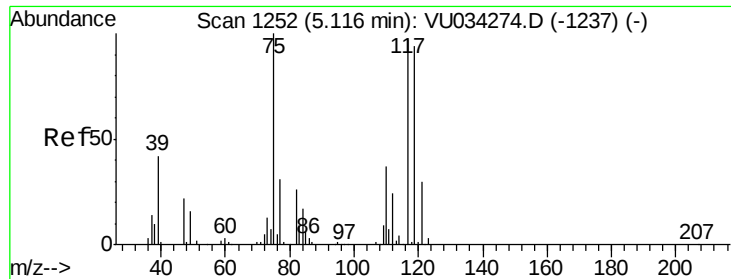
#35
 Dibromofluoromethane
 Concen: 51.882 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Tgt Ion:	113	Resp:	186431
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.5	122.3
192	22.5	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

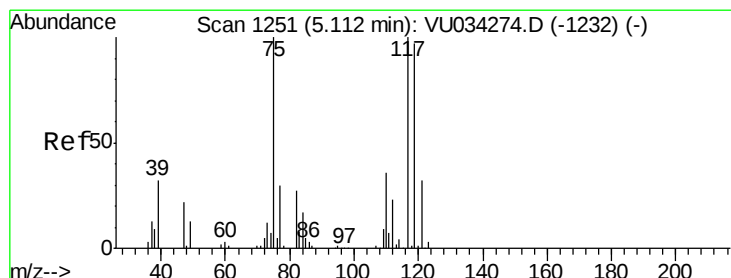
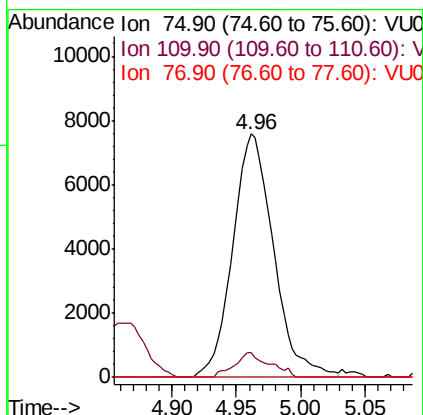
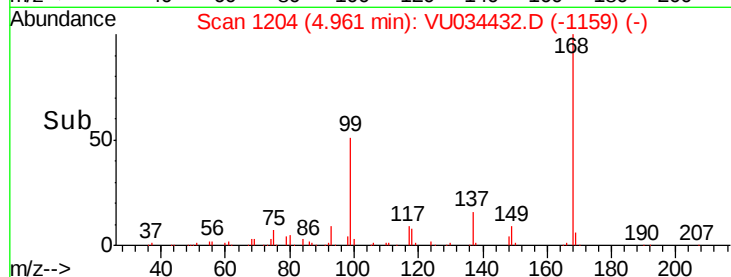
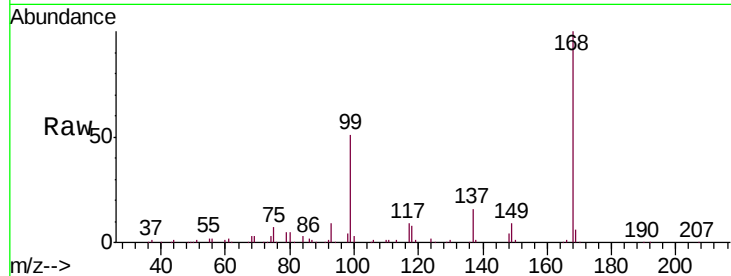




#36
 1,1-Dichloropropene
 Concen: 3.997 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

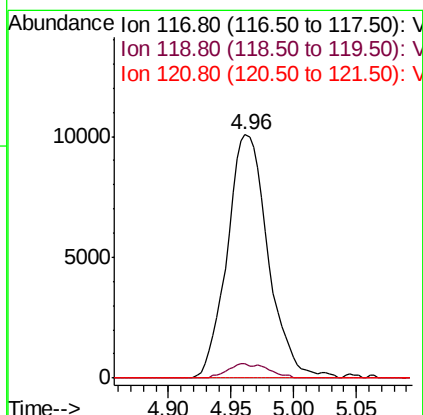
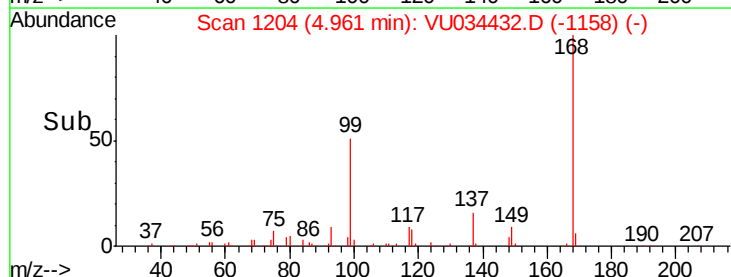
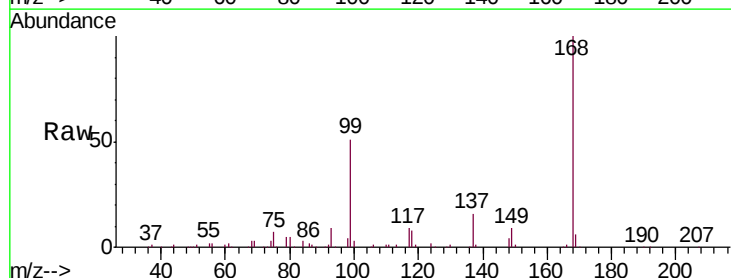
Instrument :
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 ClientSampleId :
 T12-G2-(2.7)

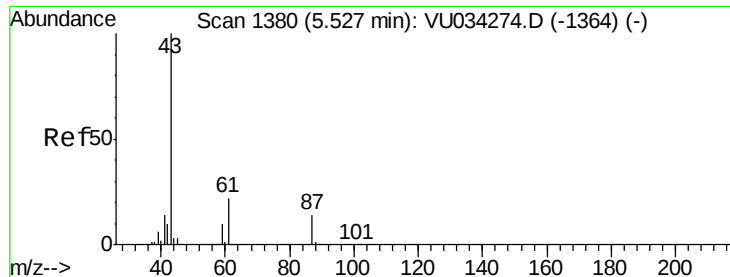
Tgt Ion: 75 Resp: 16738
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.118 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Tgt Ion: 117 Resp: 22888
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.8 116.6#
 121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 7.173 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

T12-G2-(2.7)

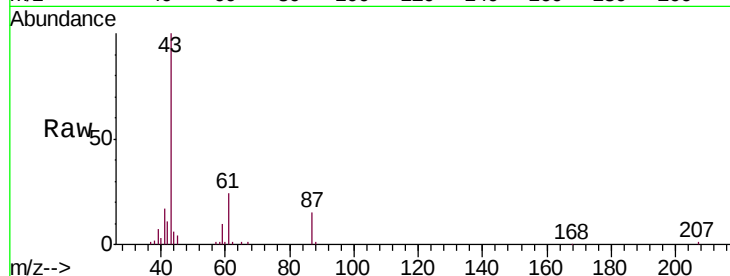
Tgt Ion: 43 Resp: 55406

Ion Ratio Lower Upper

43 100

61 20.4 17.1 25.7

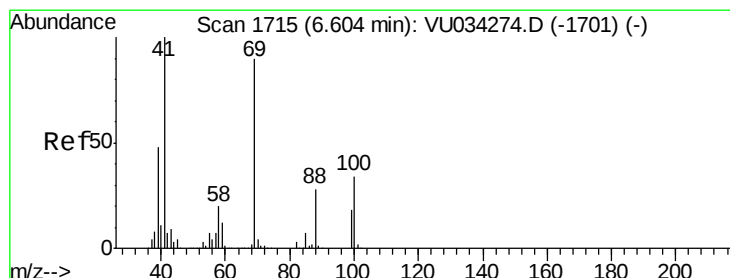
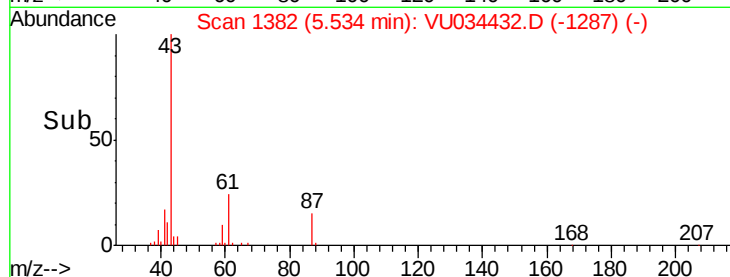
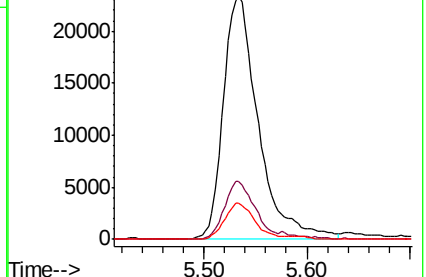
87 13.1 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034432.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034432.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034432.D (-1287) (-)



#48

Methyl methacrylate

Concen: 21.162 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

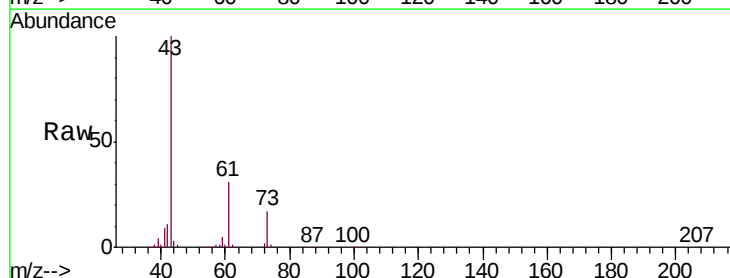
Tgt Ion: 41 Resp: 77642

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

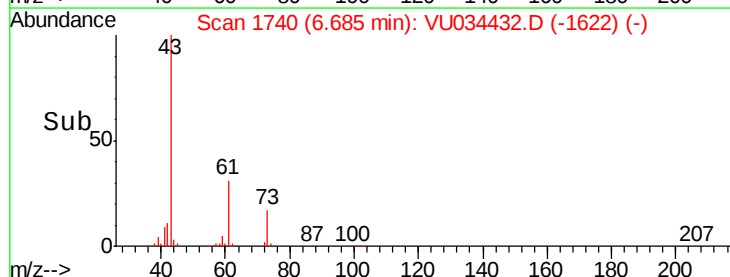
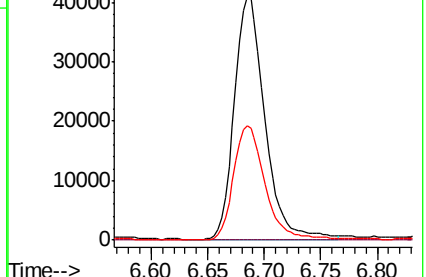
39 48.2 38.6 58.0

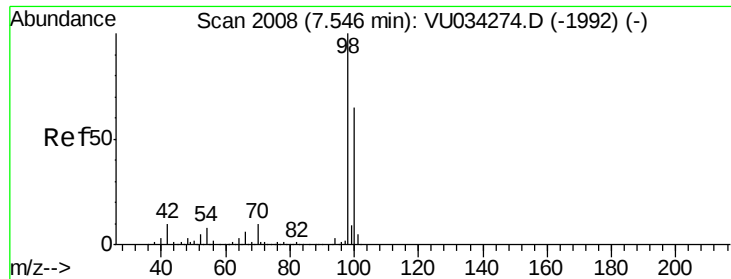


Abundance Ion 41.00 (40.70 to 41.70): VU034432.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034432.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034432.D (-1622) (-)





#50

Toluene-d8

Concen: 50.009 ug/l

RT: 7.54 min Scan# 2007

Delta R.T. -0.00 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

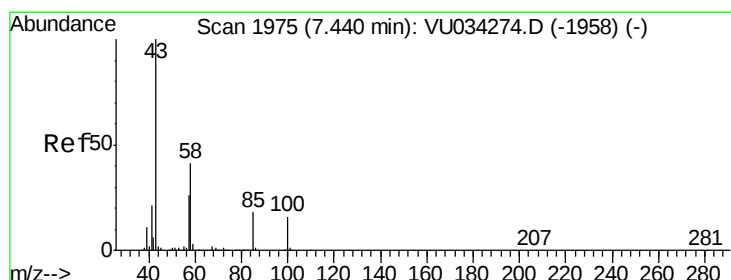
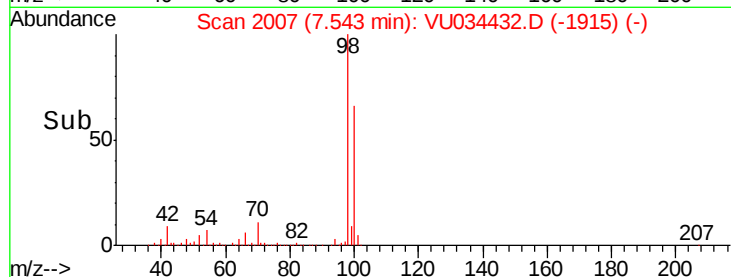
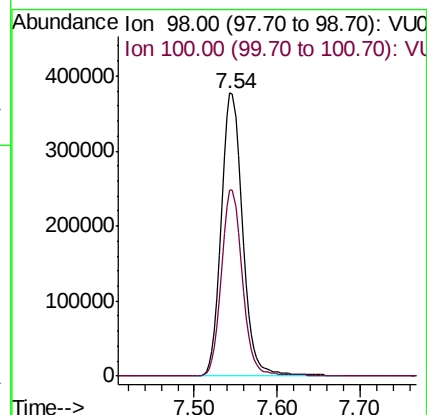
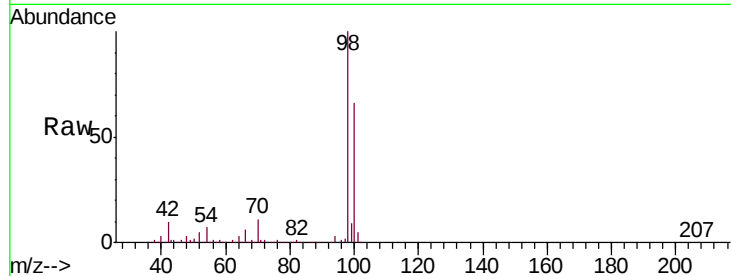
T12-G2-(2.7)

Tgt Ion: 98 Resp: 675137

Ion Ratio Lower Upper

98 100

100 64.7 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 9.672 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034432.D

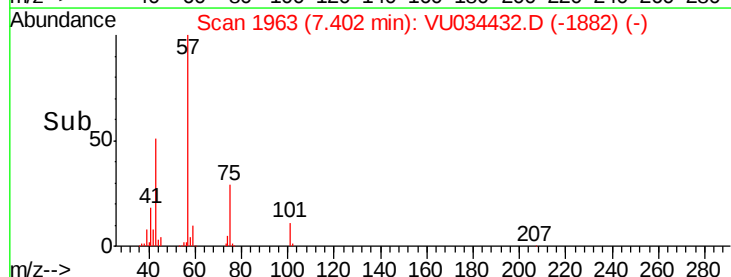
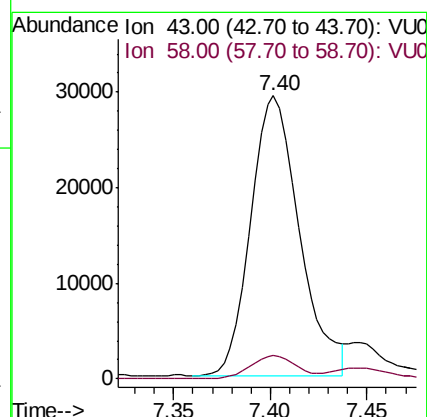
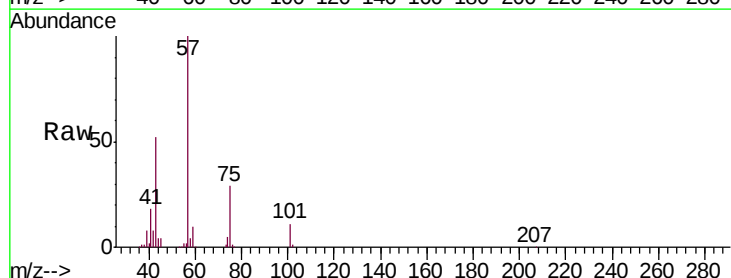
Acq: 09 Sep 2019 14:46

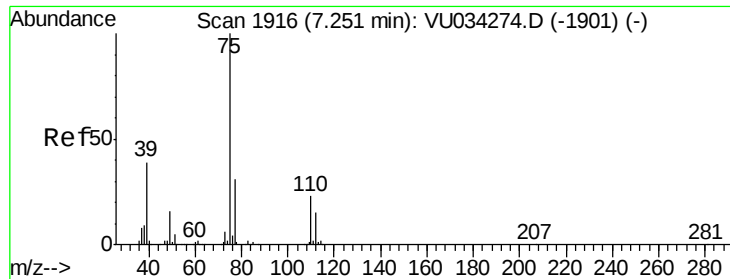
Tgt Ion: 43 Resp: 51715

Ion Ratio Lower Upper

43 100

58 7.8 33.0 49.4#

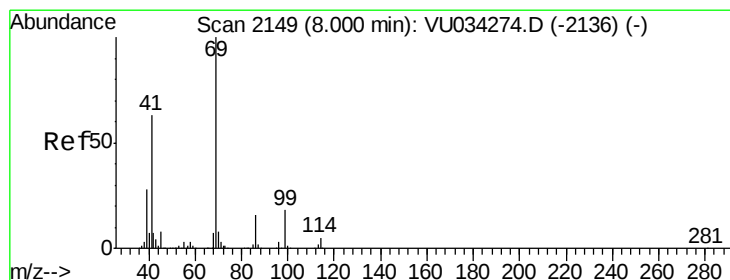
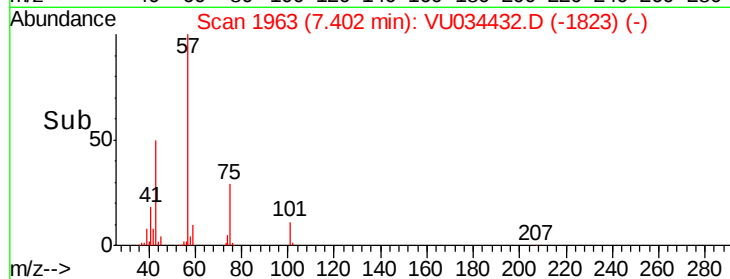
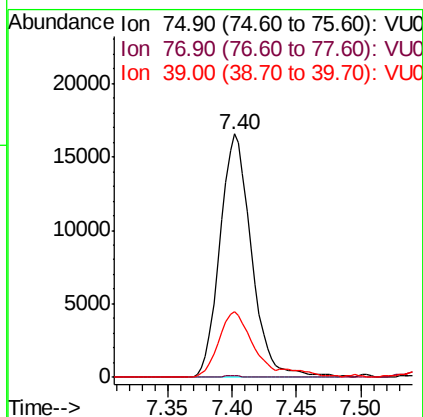
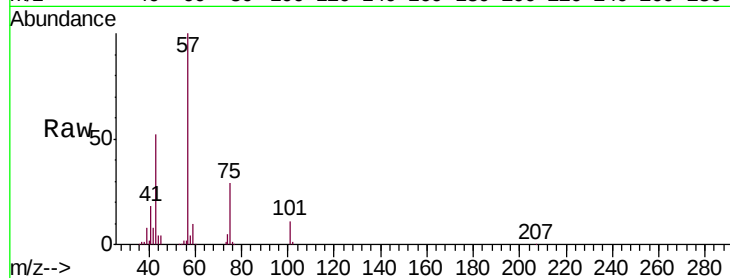




#54
 cis-1,3-Dichloropropene
 Concen: 4.842 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

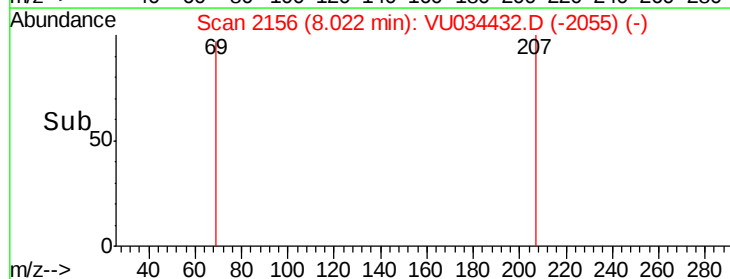
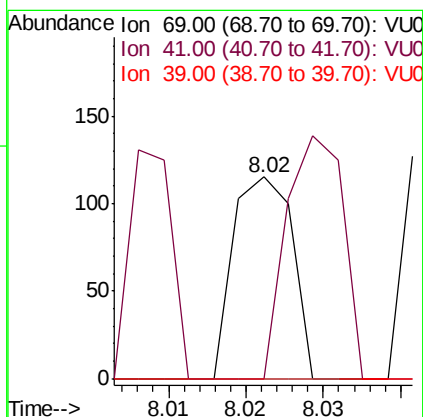
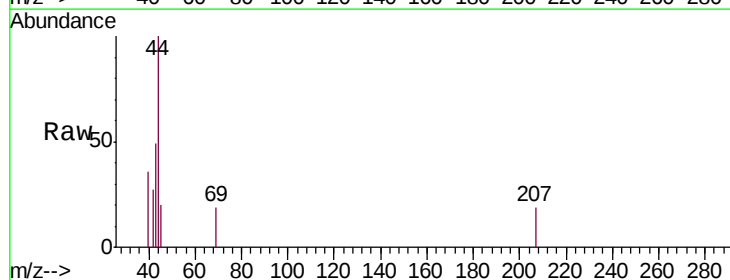
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G2-(2.7)

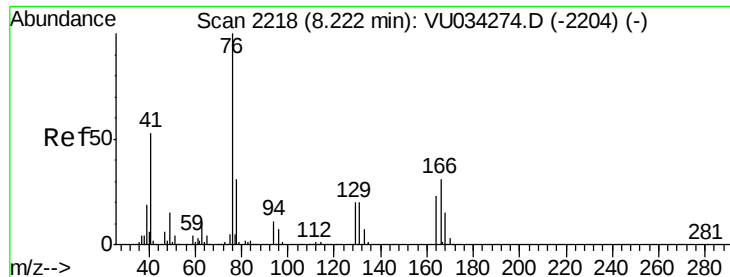
Tgt Ion: 75 Resp: 28120
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.1 37.7#
 39 27.0 31.2 46.8#



#56
 Ethyl methacrylate
 Concen: 3.086 ug/l
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.02 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Tgt Ion: 69 Resp: 61
 Ion Ratio Lower Upper
 69 100
 41 0.0 49.5 74.3#
 39 0.0 22.5 33.7#





#57

1,3-Dichloropropane

Concen: 0.698 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

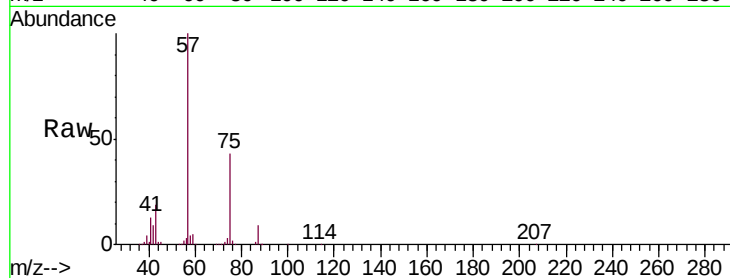
T12-G2-(2.7)

Tgt Ion: 76 Resp: 4374

Ion Ratio Lower Upper

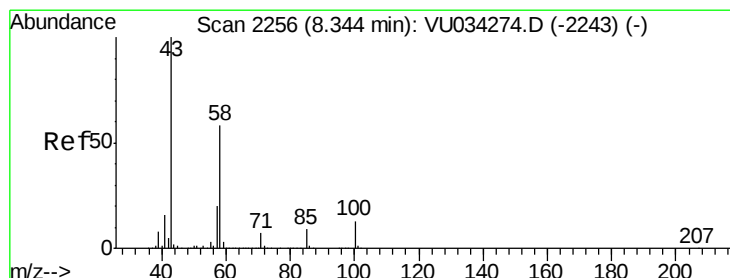
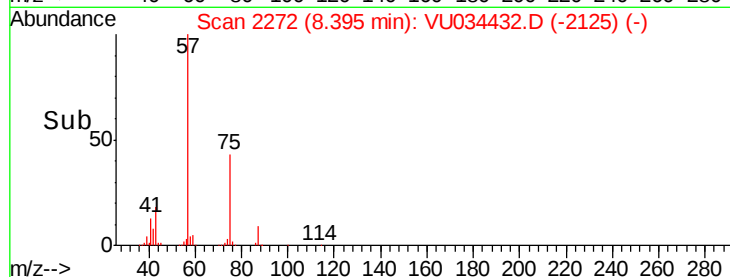
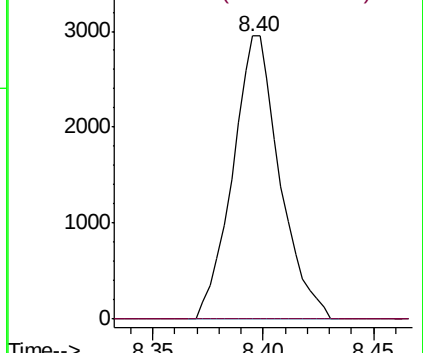
76 100

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: 13.924 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.05 min

Lab File: VU034432.D

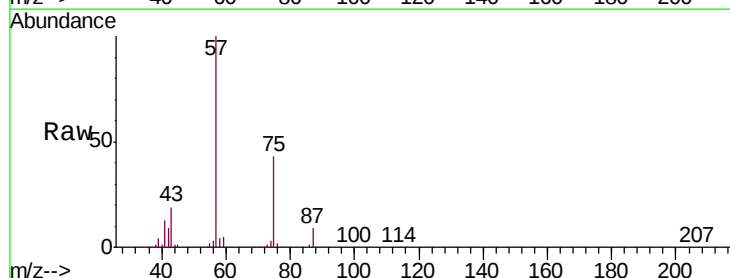
Acq: 09 Sep 2019 14:46

Tgt Ion: 43 Resp: 55619

Ion Ratio Lower Upper

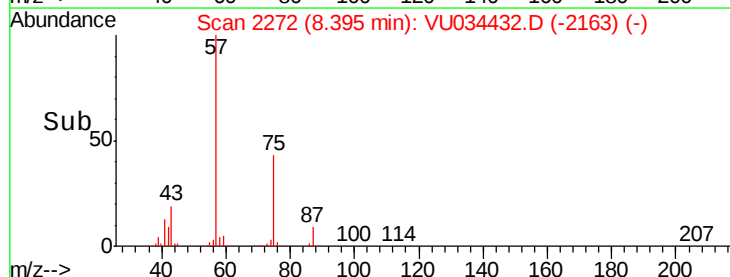
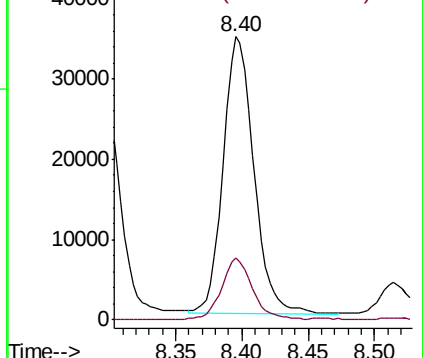
43 100

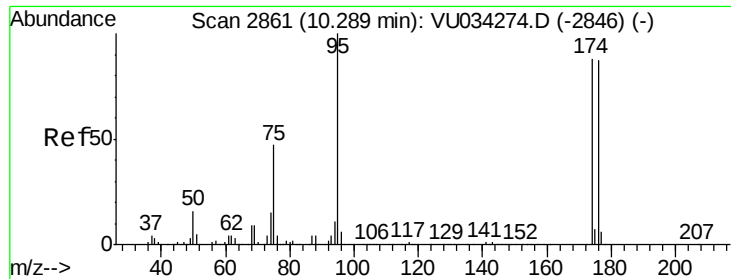
58 22.7 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 44.551 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

T12-G2-(2.7)

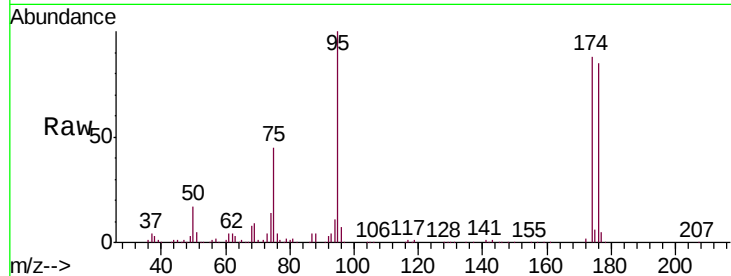
Tgt Ion: 95 Resp: 232220

Ion Ratio Lower Upper

95 100

174 89.4 0.0 175.2

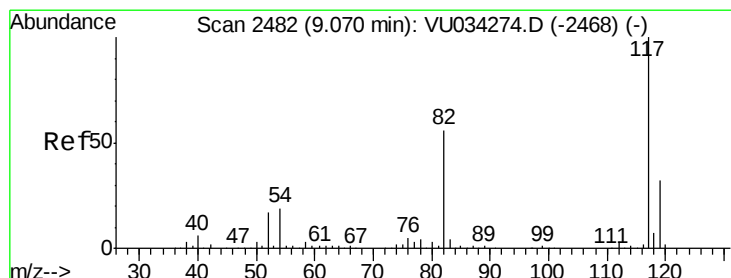
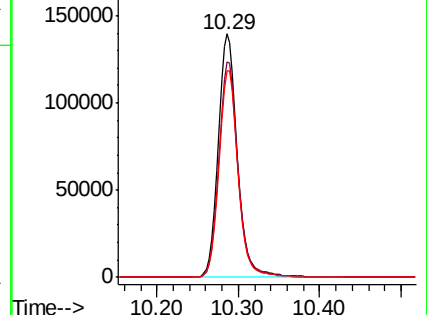
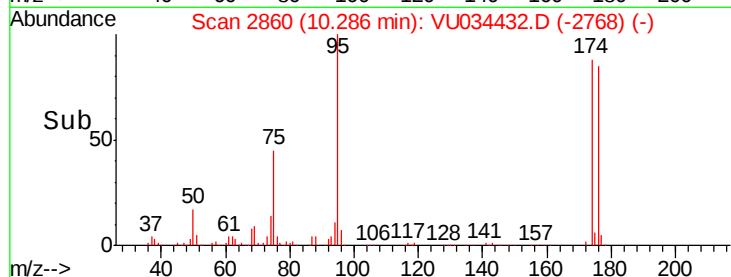
176 84.9 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034432.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034432.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034432.D (-2846) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2481

Delta R.T. -0.00 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

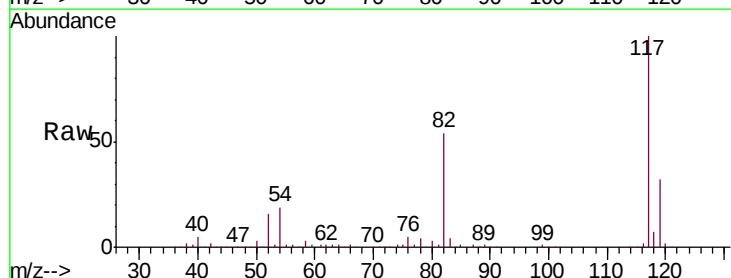
Tgt Ion: 117 Resp: 400059

Ion Ratio Lower Upper

117 100

82 54.3 44.6 67.0

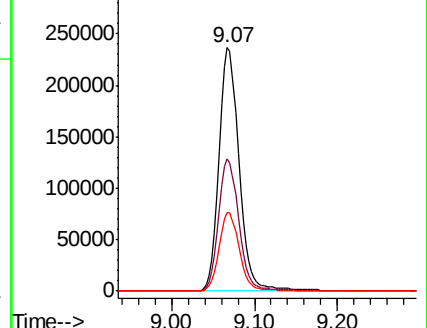
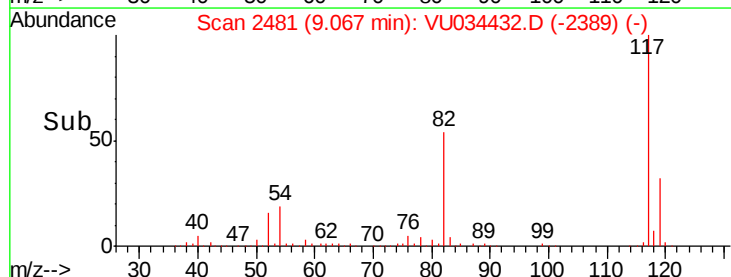
119 32.0 25.9 38.9

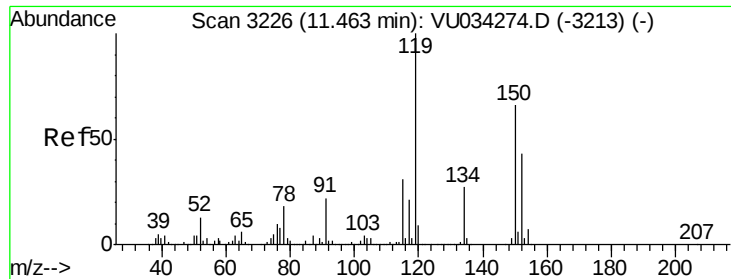


Abundance Ion 116.90 (116.60 to 117.60): VU034432.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034432.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034432.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: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

T12-G2-(2.7)

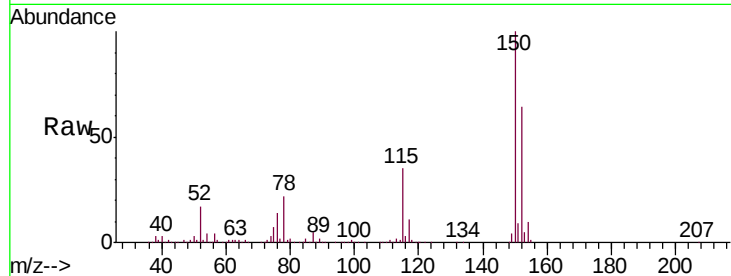
Tgt Ion:152 Resp: 222674

Ion Ratio Lower Upper

152 100

115 54.4 39.1 117.3

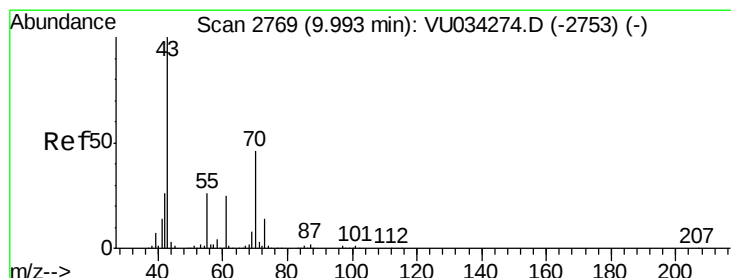
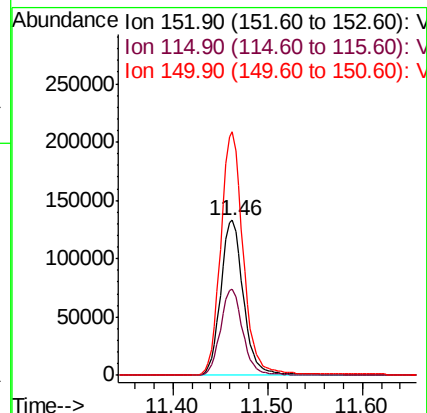
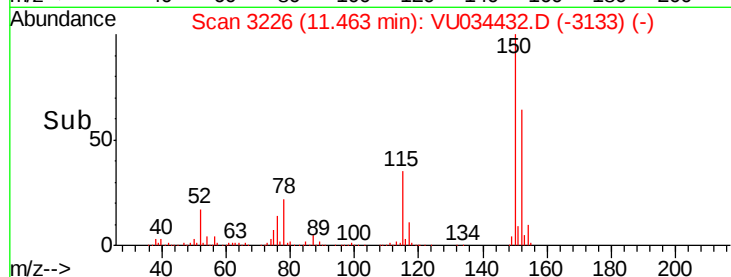
150 155.5 0.0 345.4



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: 0.247 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.07 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Tgt Ion: 43 Resp: 1443

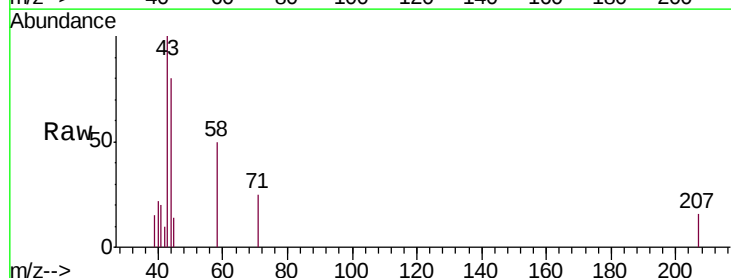
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 0.0 21.2 31.8#

61 0.0 20.4 30.6#

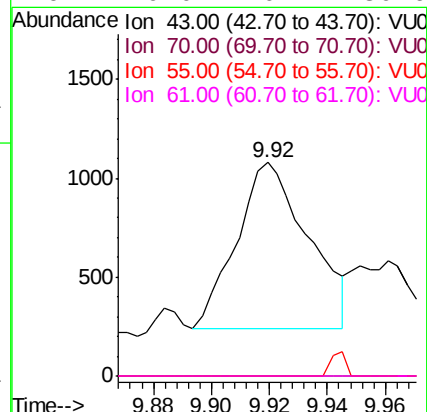
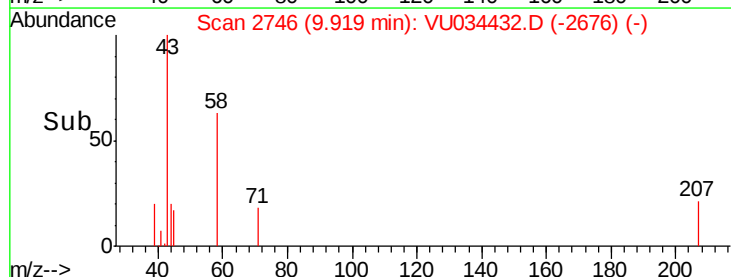


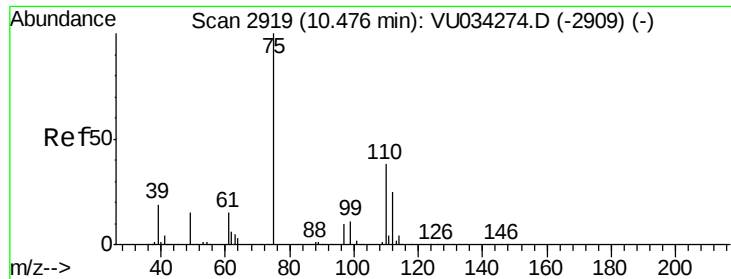
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 21.810 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

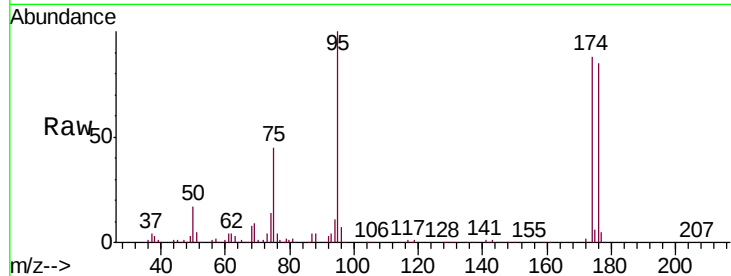
T12-G2-(2.7)

Tgt Ion: 75 Resp: 106008

Ion Ratio Lower Upper

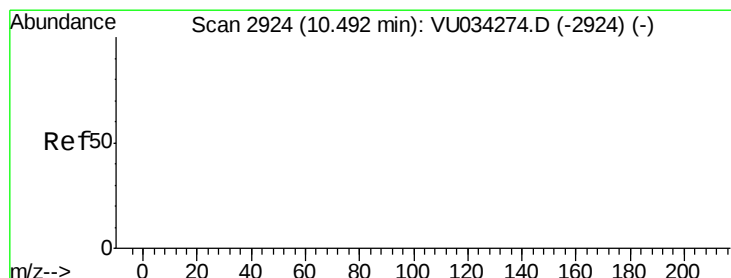
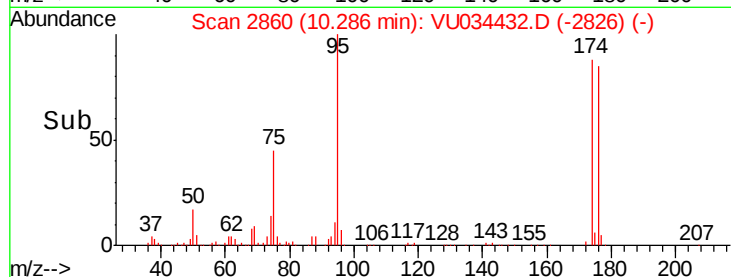
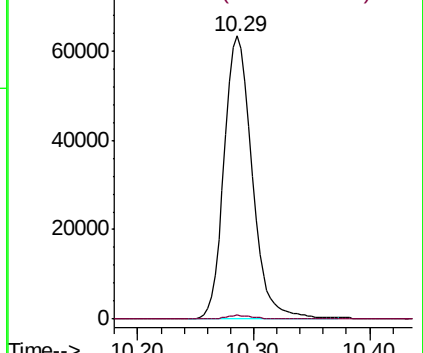
75 100

77 1.3 20.8 62.2#



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: 73.345 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034432.D

Acq: 09 Sep 2019 14:46

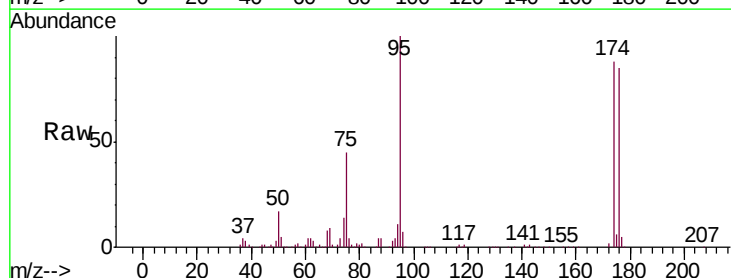
Tgt Ion: 75 Resp: 106008

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

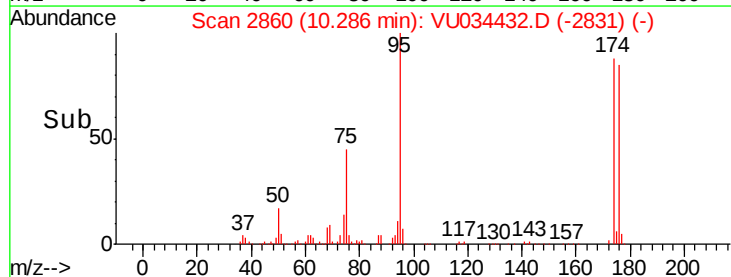
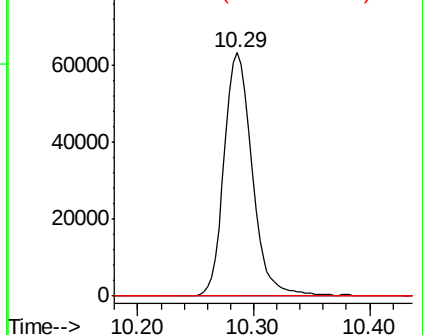
89 0.0 0.0 0.0

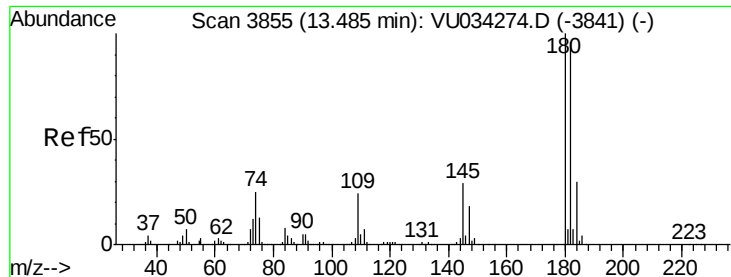


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

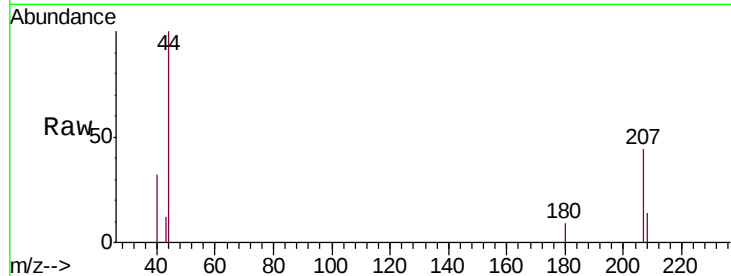




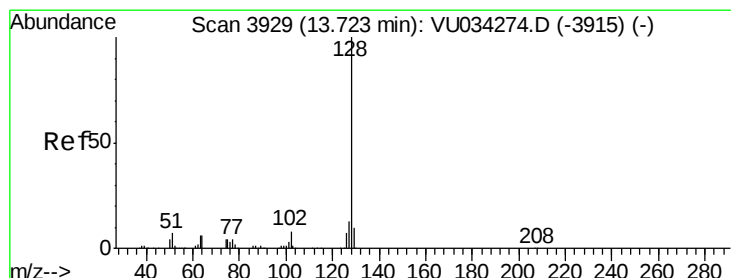
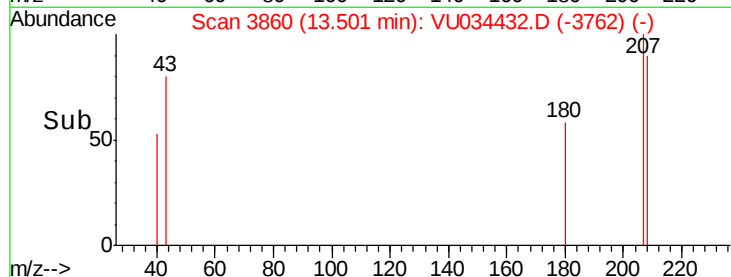
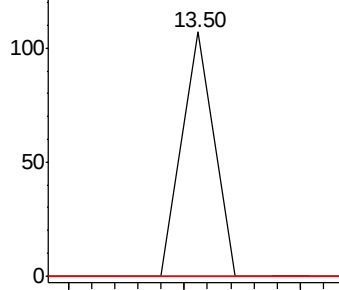
#93
 1,2,4-Trichlorobenzene
 Concen: 3.455 ug/l
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.02 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G2-(2.7)

Tgt Ion:180 Resp: 21
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

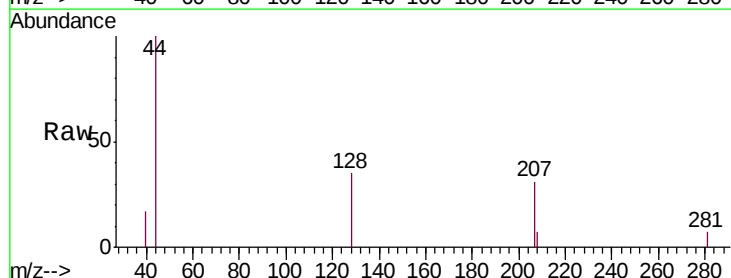


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

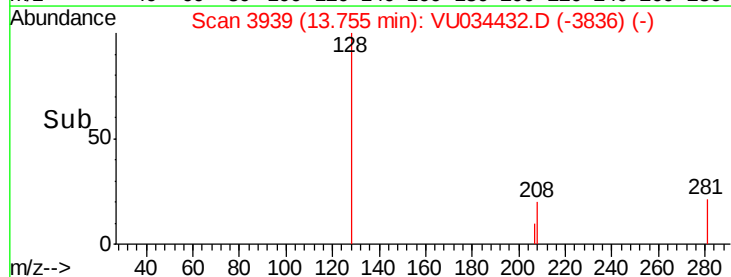
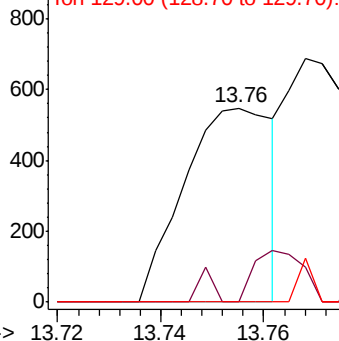


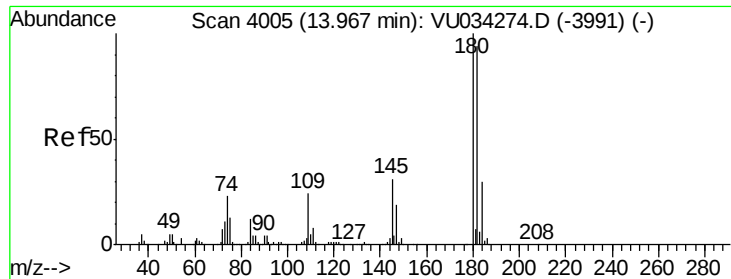
#95
 Naphthalene
 Concen: 4.006 ug/l
 RT: 13.76 min Scan# 3939
 Delta R.T. 0.03 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Tgt Ion:128 Resp: 652
 Ion Ratio Lower Upper
 128 100
 127 2.9 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





#96
 1,2,3-Trichlorobenzene
 Concen: 2.668 ug/l
 RT: 13.99 min Scan# 4012
 Delta R.T. 0.02 min
 Lab File: VU034432.D
 Acq: 09 Sep 2019 14:46

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-G2-(2.7)

Tgt Ion:180 Resp: 157
 Ion Ratio Lower Upper
 180 100
 182 79.6 48.4 145.0
 145 115.3 15.4 46.4#

