

Data File : VU034299.D
Acq On : 05 Sep 2019 21:21
Operator : JC/SP
Sample : K4548-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

Quant Time: Sep 06 07:42:40 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	437845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	701576	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	692170	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	345001	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	283808	42.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.68%	
35) Dibromofluoromethane	4.86	113	250297	38.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.68%	
50) Toluene-d8	7.55	98	990893	40.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.80%	
62) 4-Bromofluorobenzene	10.29	95	349221	36.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.76%	

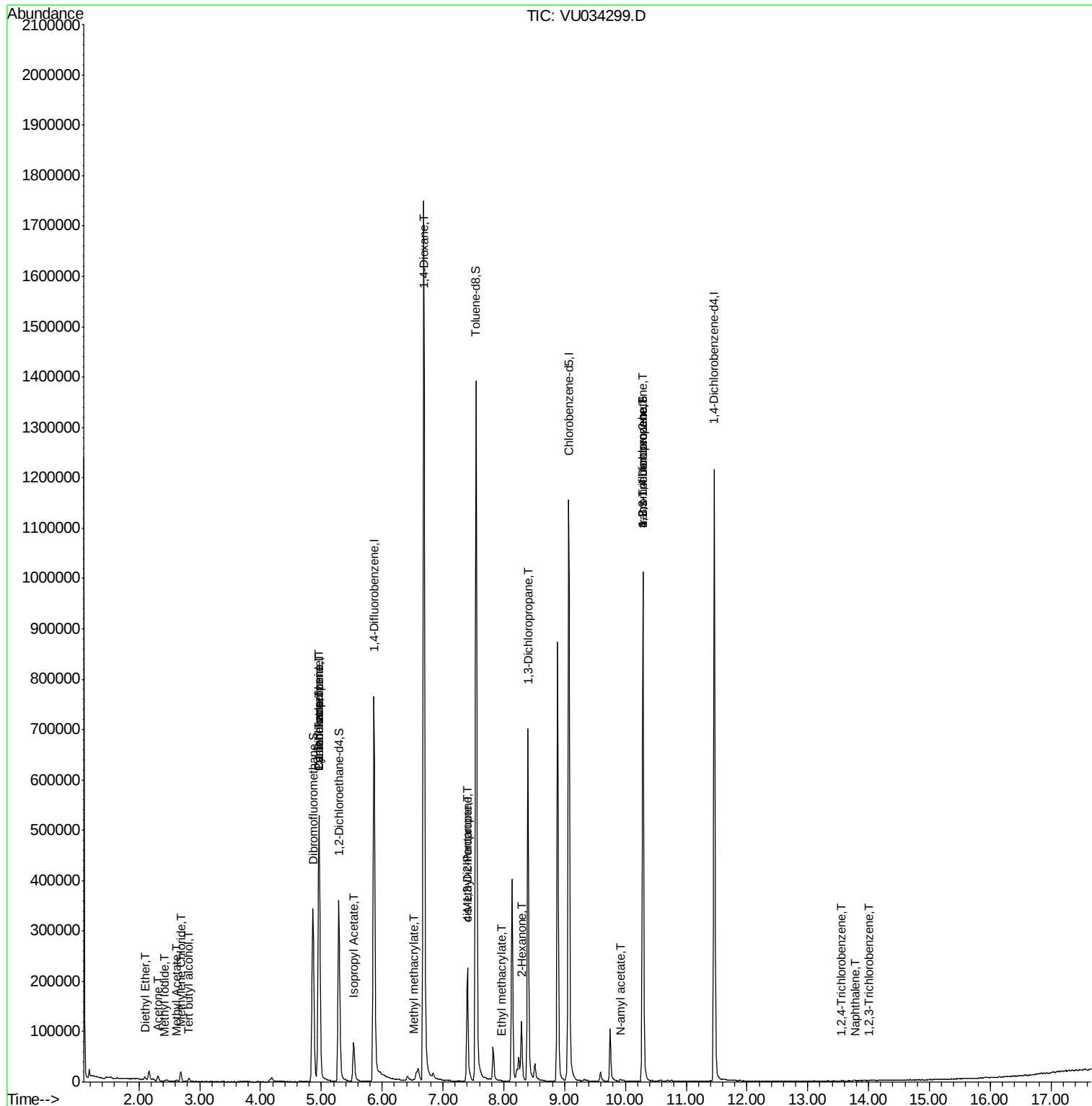
Target Compounds					Qvalue
5) Bromomethane	1.63	94	425	Below Cal	93
6) Chloroethane	1.66	64	123	Below Cal	# 43
8) Diethyl Ether	2.09	74	1615	0.480 ug/l	96
10) Methyl Iodide	2.41	142	163	3.879 ug/l #	43
11) Tert butyl alcohol	2.82	59	3984	2.847 ug/l #	73
16) Acetone	2.31	43	11143	3.250 ug/l	98
18) Methyl Acetate	2.61	43	4021	0.482 ug/l #	86
20) Methylene Chloride	2.69	84	8792	1.176 ug/l	98
31) Cyclohexane	4.96	56	7745	0.998 ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30054	3.950 ug/l #	49
38) Carbon Tetrachloride	4.96	117	38648	4.757 ug/l #	15
43) Isopropyl Acetate	5.53	43	92342	6.580 ug/l	99
48) Methyl methacrylate	6.53	41	4788	0.718 ug/l #	13
49) 1,4-Dioxane	6.69	88	246	1.690 ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	86652	8.920 ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	42938	4.070 ug/l #	62
56) Ethyl methacrylate	7.97	69	133	3.088 ug/l #	28
57) 1,3-Dichloropropane	8.40	76	7849	0.689 ug/l #	43
59) 2-Hexanone	8.29	43	94521	13.025 ug/l #	22
74) N-amyl acetate	9.92	43	2549	0.282 ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	162782	21.616 ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	162782	72.692 ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	68	3.459 ug/l #	12
95) Naphthalene	13.77	128	146	3.972 ug/l #	69
96) 1,2,3-Trichlorobenzene	14.01	180	134	2.655 ug/l #	39

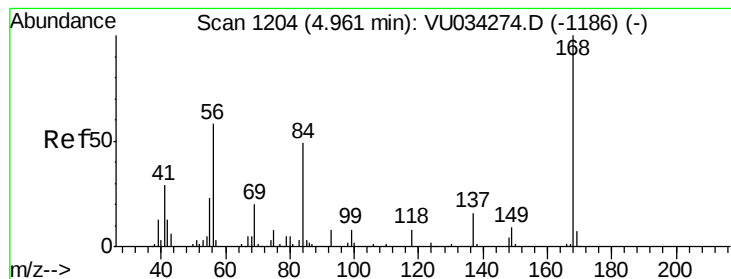
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampleId :

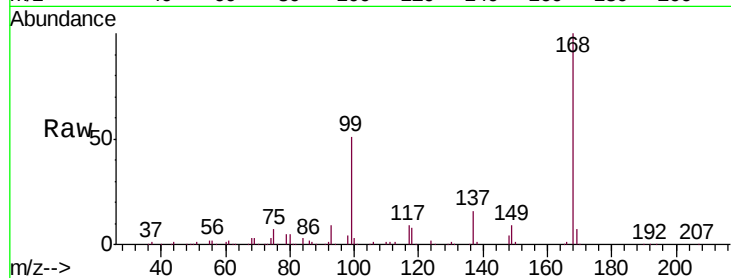
T8-S-G2-(2.5)

Tgt Ion:168 Resp: 437845

Ion Ratio Lower Upper

168 100

99 50.5 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

200000

150000

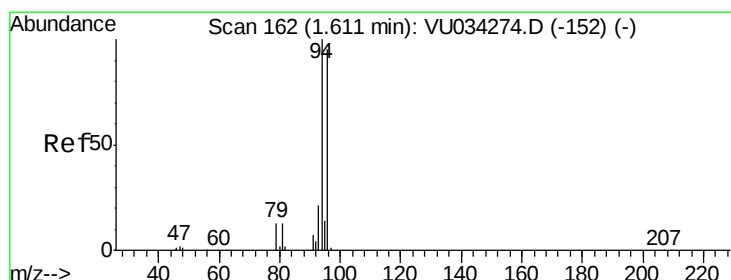
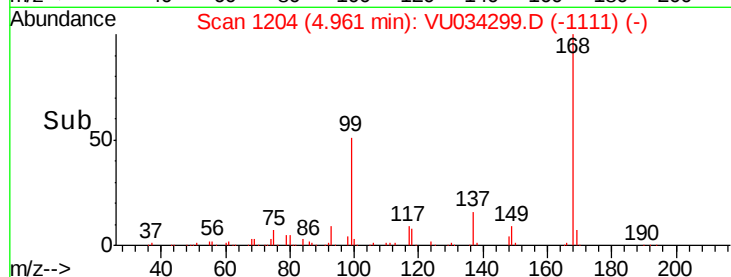
100000

50000

0

4.85 4.90 4.95 5.00 5.05

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034299.D

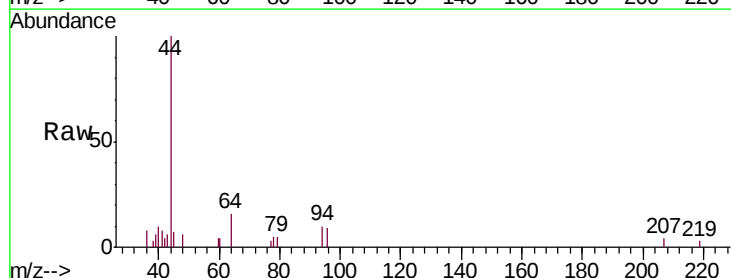
Acq: 05 Sep 2019 21:21

Tgt Ion: 94 Resp: 425

Ion Ratio Lower Upper

94 100

96 88.2 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

400

300

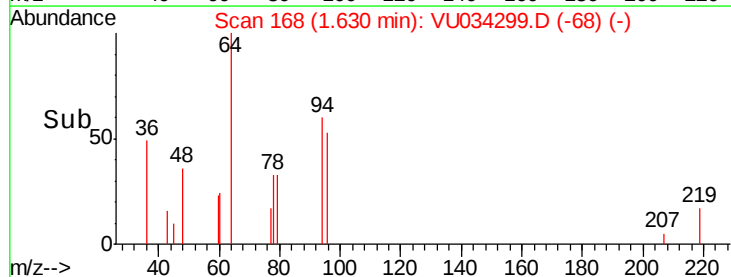
200

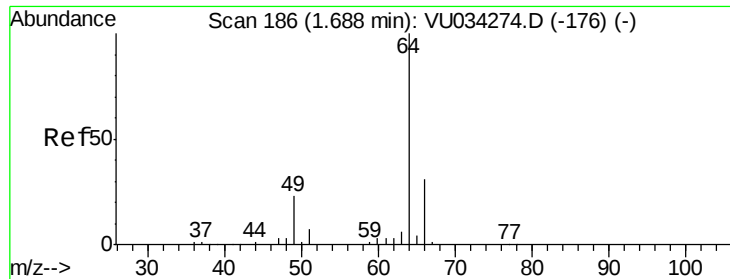
100

0

1.60 1.62 1.64 1.66

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 177

Delta R.T. -0.03 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampleId :

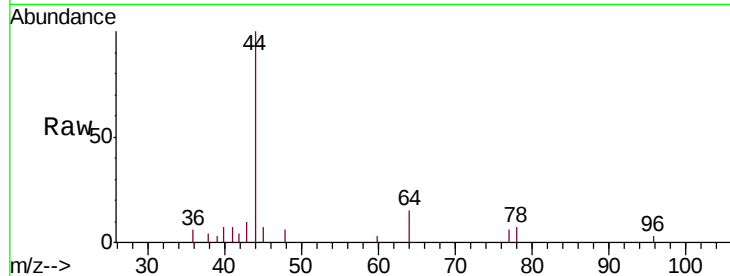
T8-S-G2-(2.5)

Tgt Ion: 64 Resp: 123

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034299.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034299.D (-176) (-)

1.66

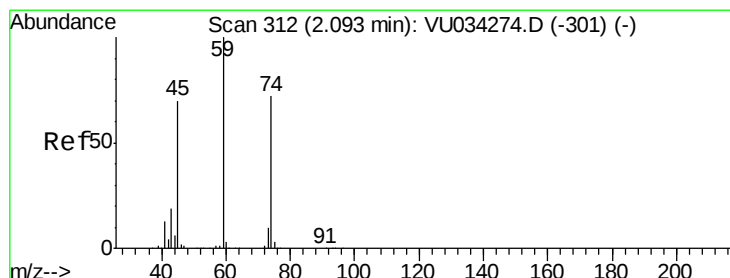
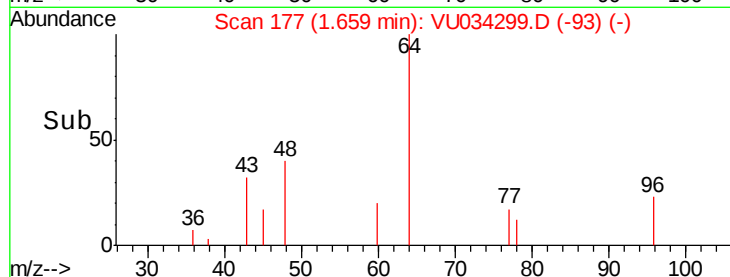
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: 0.480 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034299.D

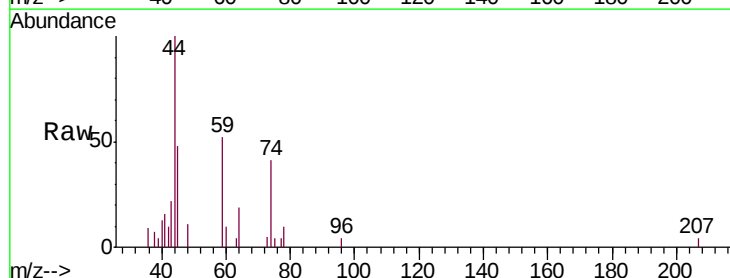
Acq: 05 Sep 2019 21:21

Tgt Ion: 74 Resp: 1615

Ion Ratio Lower Upper

74 100

45 92.2 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VU034299.D (-301) (-)

Ion 45.00 (44.70 to 45.70): VU034299.D (-301) (-)

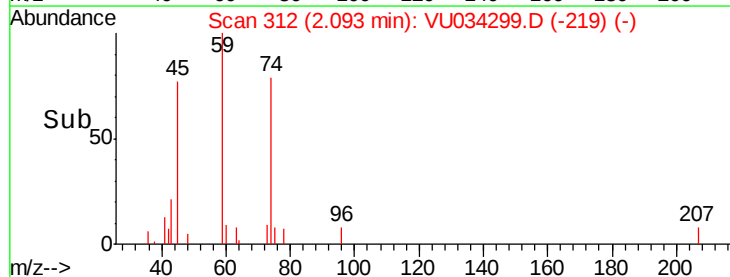
2.09

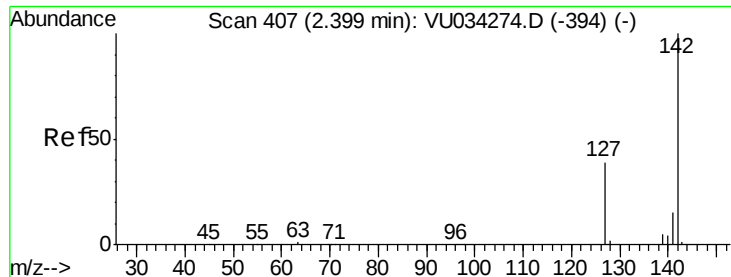
1000

500

0

Time-->

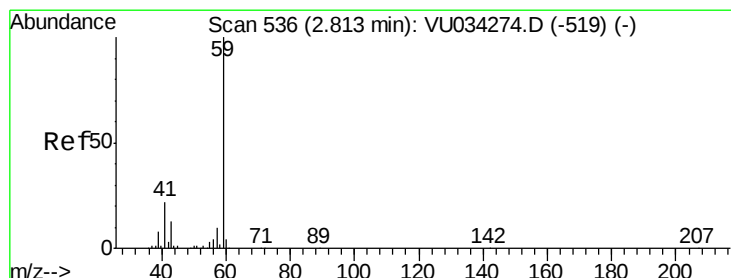
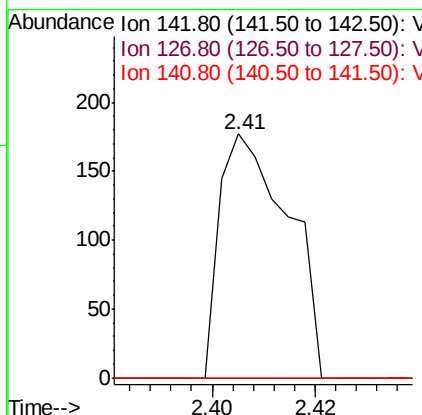
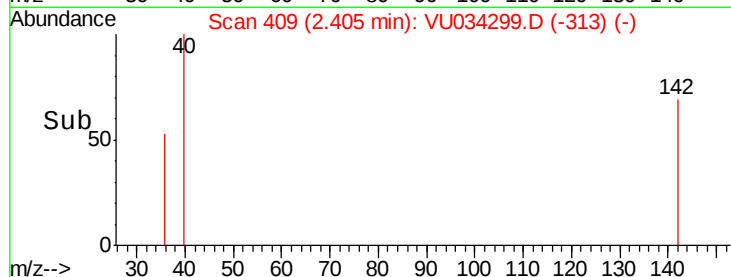
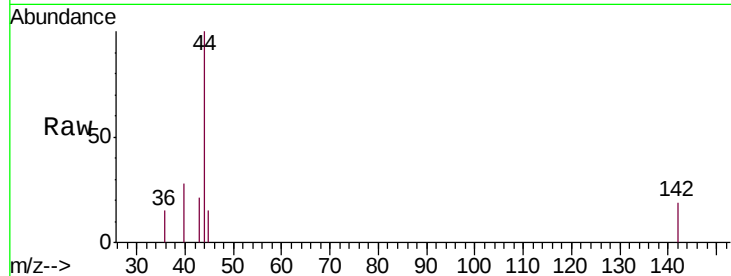




#10
Methyl Iodide
Concen: 3.879 ug/l
RT: 2.41 min Scan# 409
Delta R.T. 0.01 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

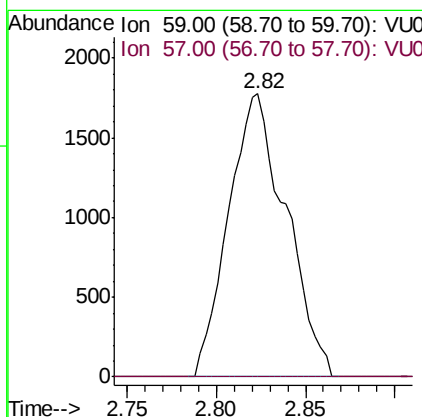
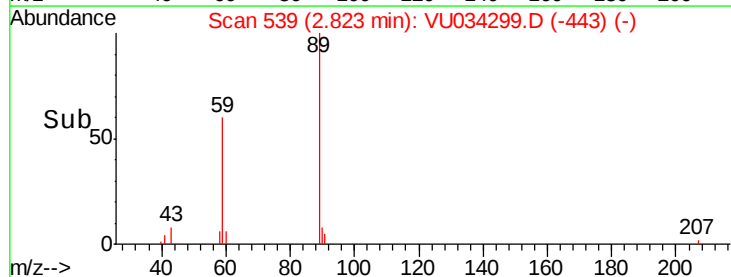
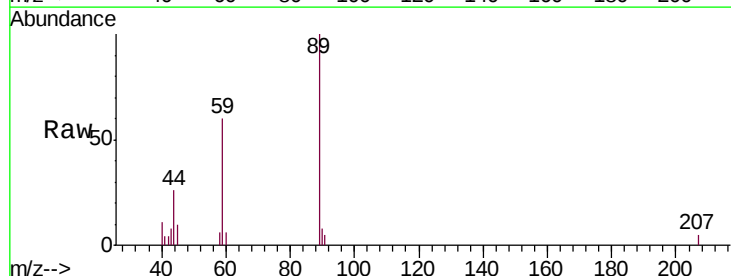
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

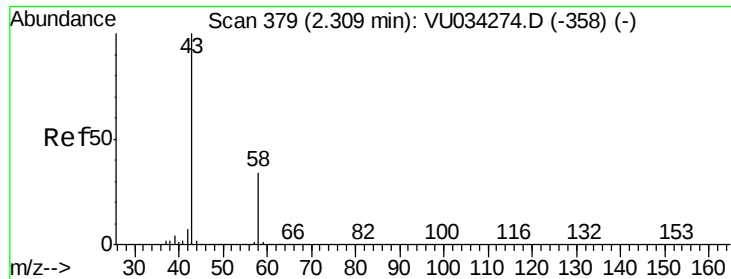
Tgt Ion: 142 Resp: 163
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 2.847 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Tgt Ion: 59 Resp: 3984
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 3.250 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampleId :

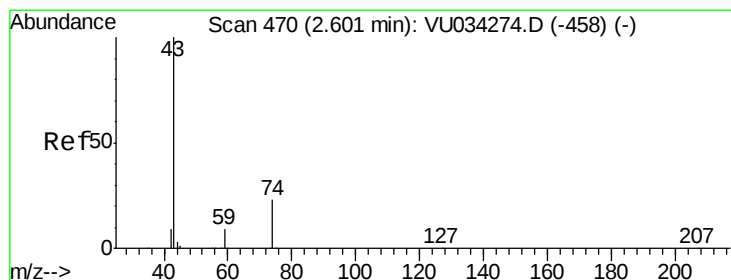
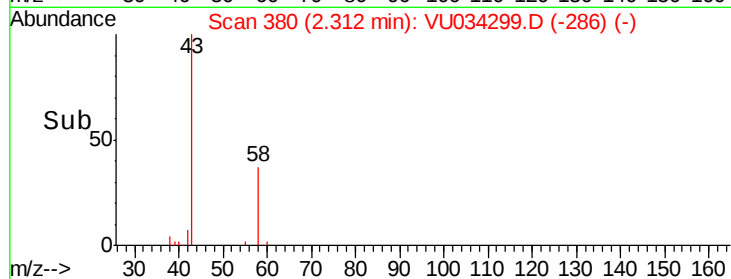
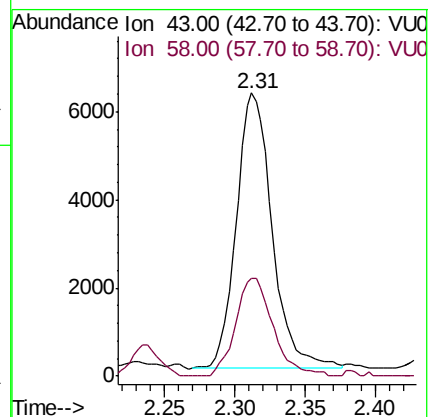
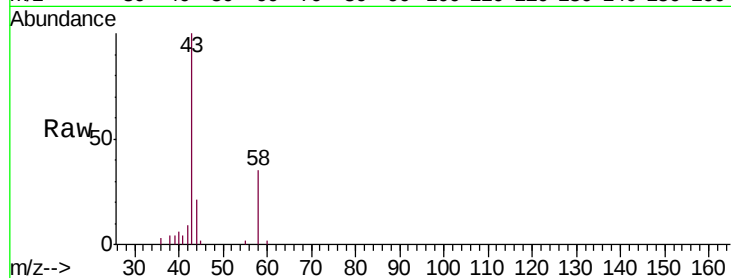
T8-S-G2-(2.5)

Tgt Ion: 43 Resp: 11143

Ion Ratio Lower Upper

43 100

58 35.6 27.6 41.4



#18

Methyl Acetate

Concen: 0.482 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.01 min

Lab File: VU034299.D

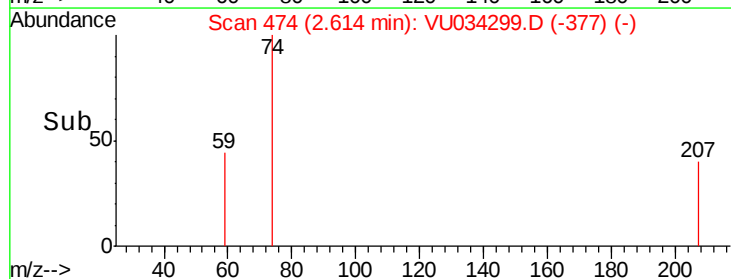
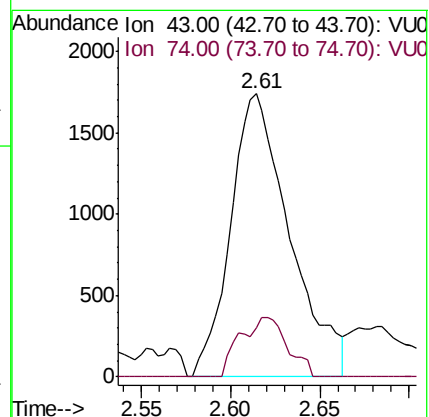
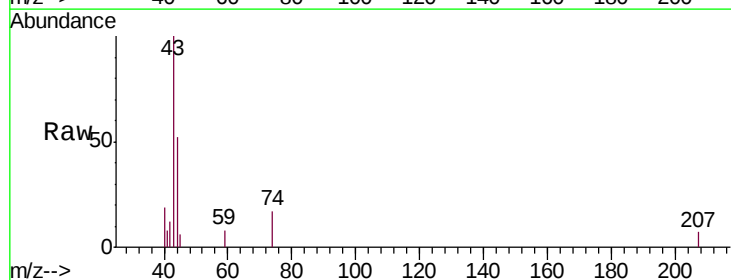
Acq: 05 Sep 2019 21:21

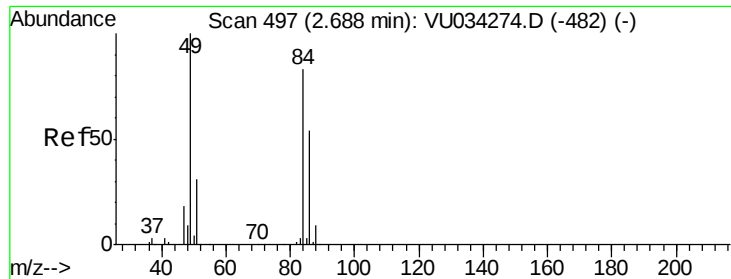
Tgt Ion: 43 Resp: 4021

Ion Ratio Lower Upper

43 100

74 16.8 18.9 28.3#

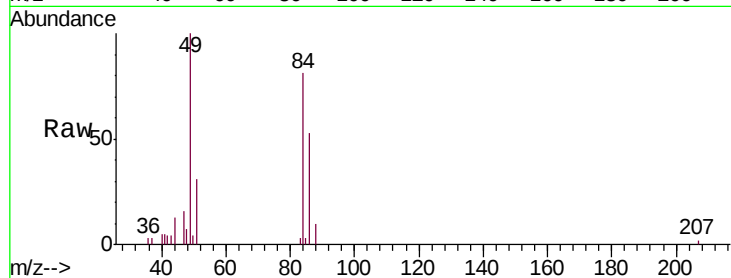




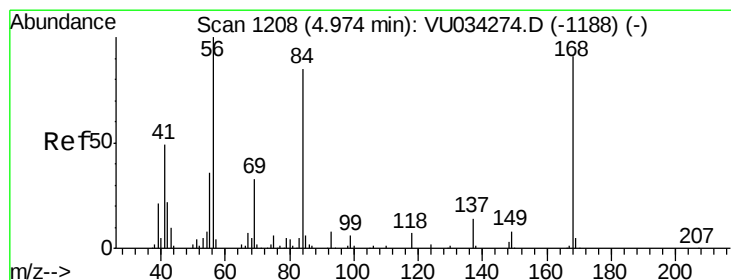
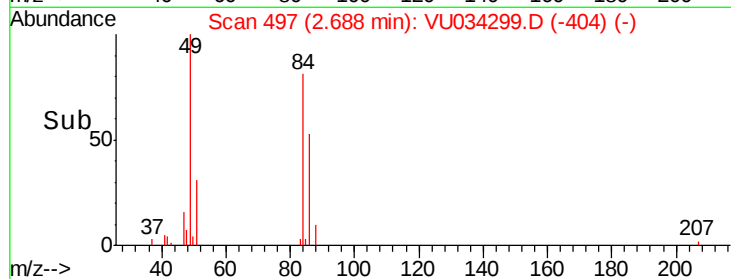
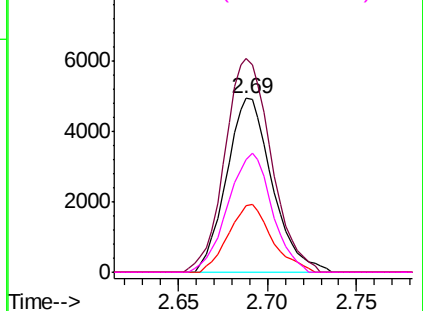
#20
Methylene Chloride
Concen: 1.176 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

Tgt Ion:	84	Resp:	8792
Ion	Ratio	Lower	Upper
84	100		
49	123.1	96.0	144.0
51	38.3	30.0	45.0
86	65.0	51.4	77.0

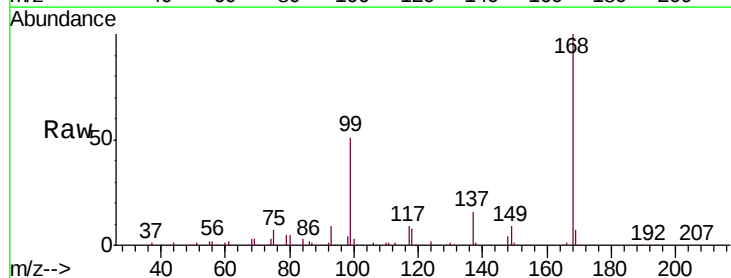


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

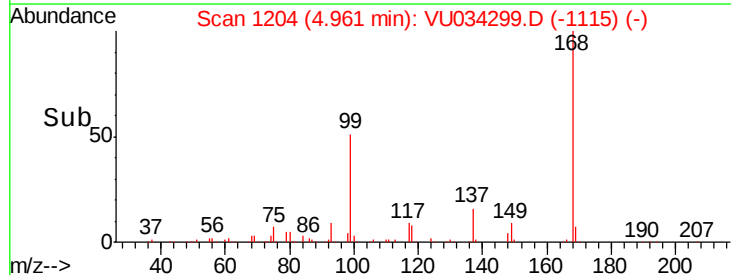
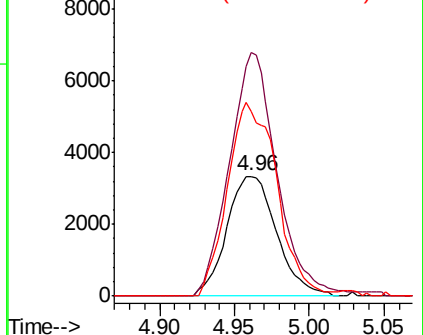


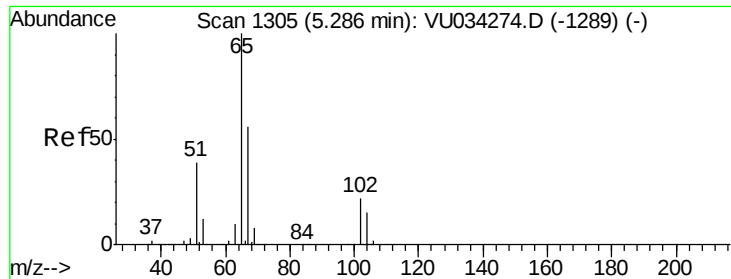
#31
Cyclohexane
Concen: 0.998 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Tgt Ion:	56	Resp:	7745
Ion	Ratio	Lower	Upper
56	100		
69	202.9	26.7	40.1#
84	154.2	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: 42.841 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

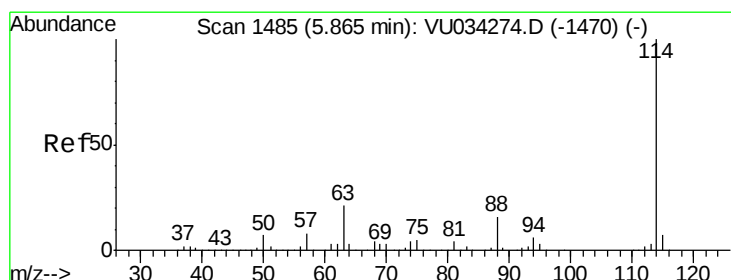
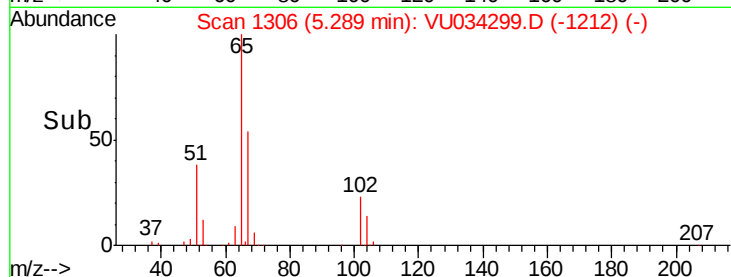
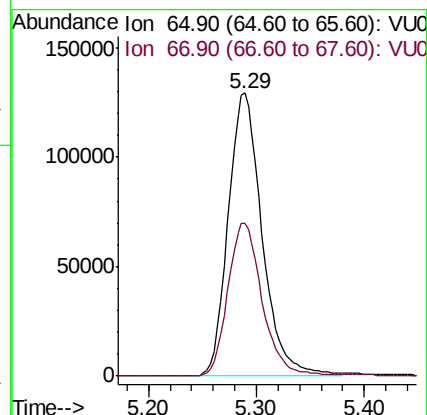
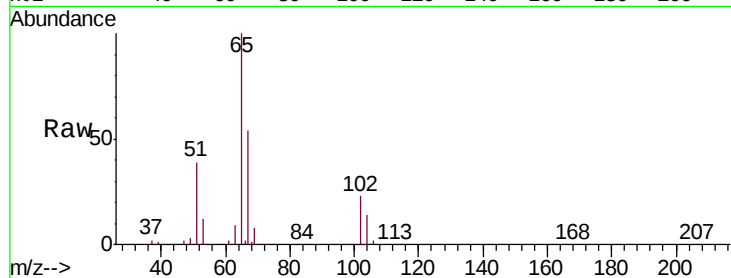
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Tgt Ion: 65 Resp: 283808

Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	112.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

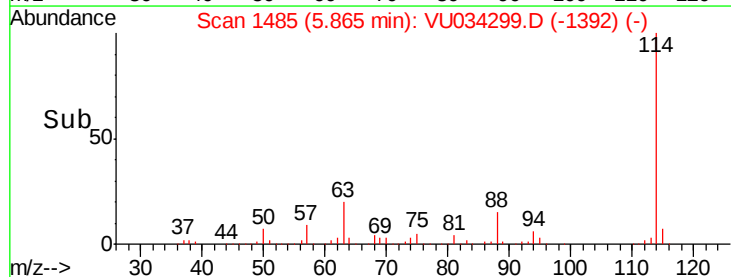
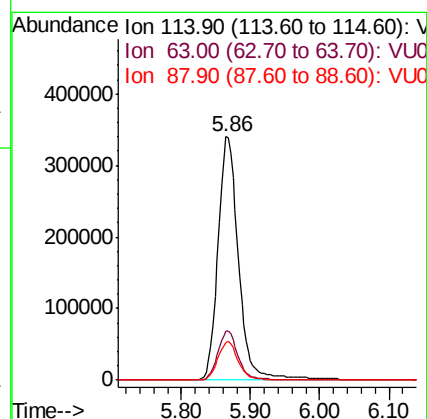
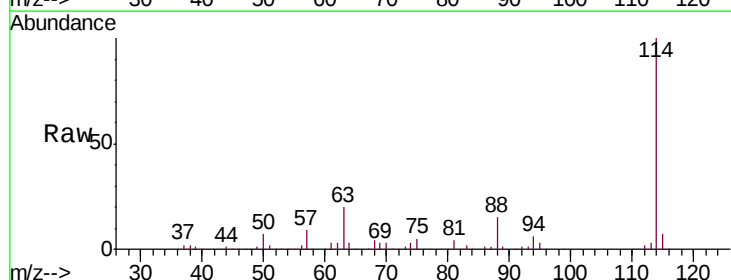
Delta R.T. -0.00 min

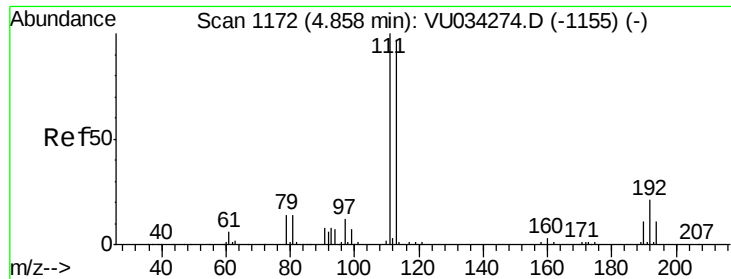
Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Tgt Ion: 114 Resp: 701576

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.4
88	15.5	0.0	32.4

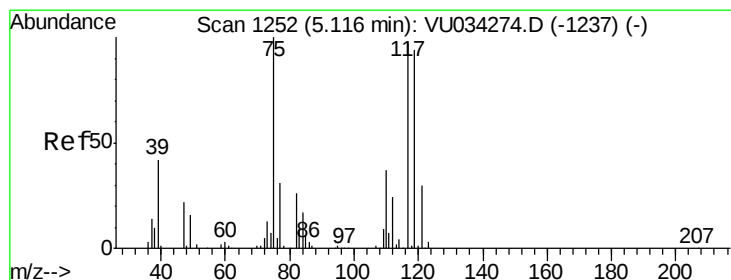
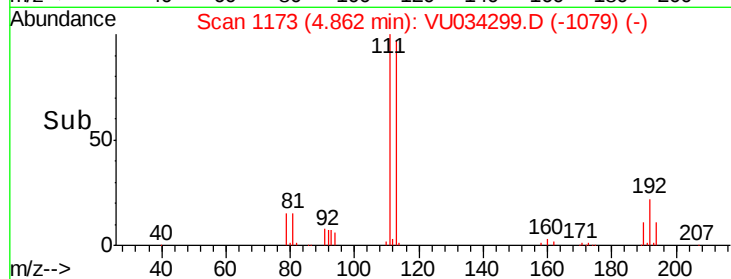
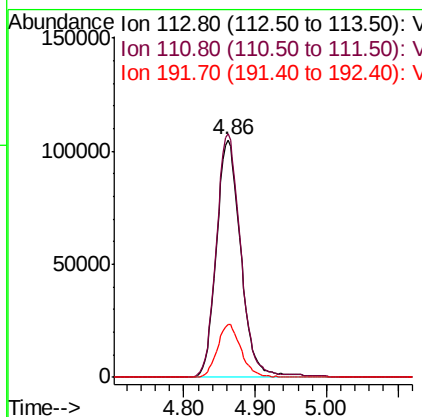
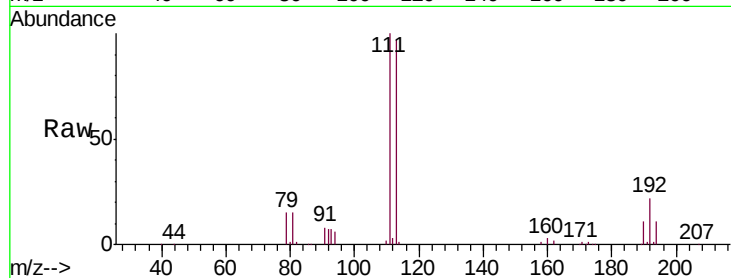




#35
 Dibromofluoromethane
 Concen: 38.341 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034299.D
 Acq: 05 Sep 2019 21:21

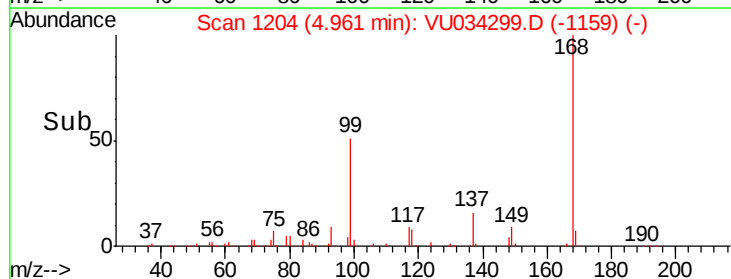
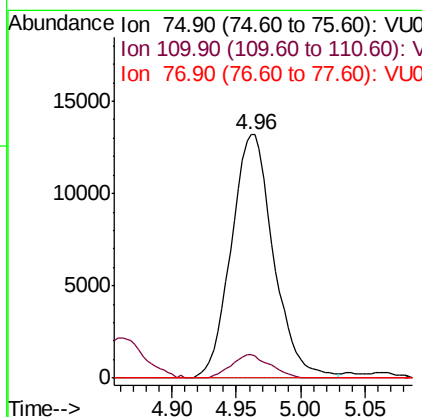
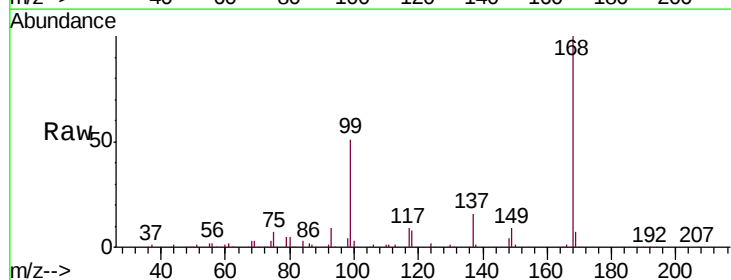
Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G2-(2.5)

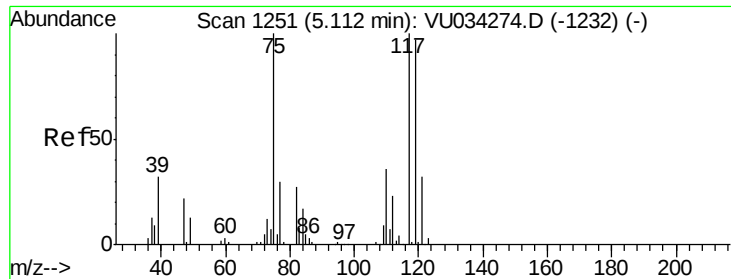
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.5	122.3
192	21.3	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 3.950 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034299.D
 Acq: 05 Sep 2019 21:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.3	54.9#
77	0.0	24.9	37.3#

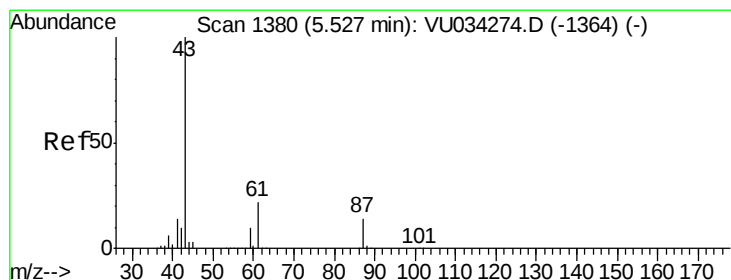
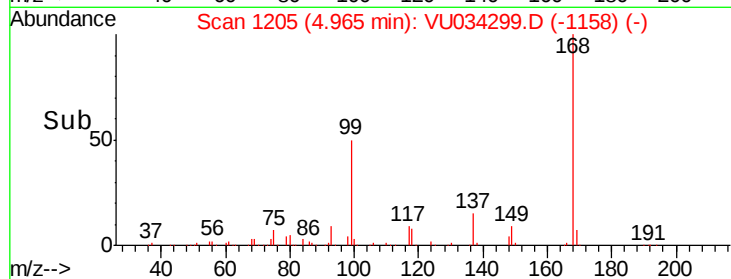
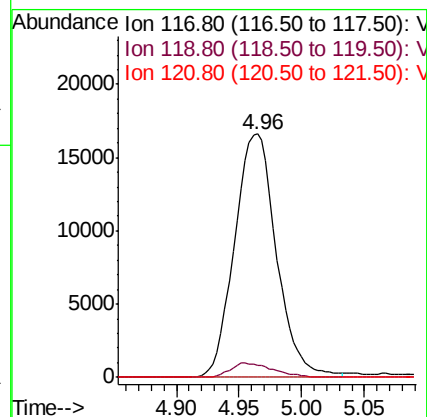
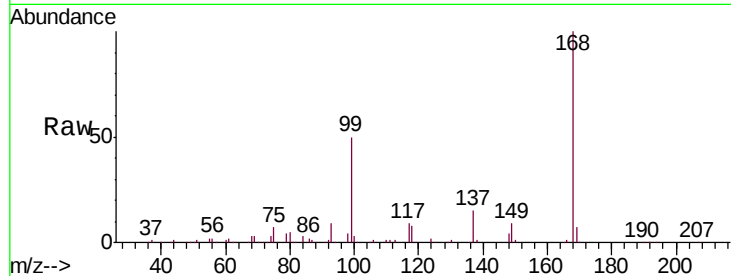




#38
Carbon Tetrachloride
Concen: 4.757 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.15 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

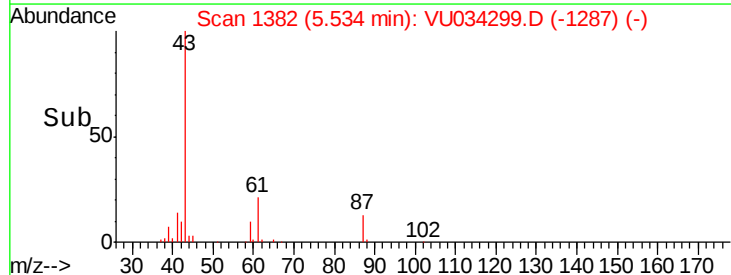
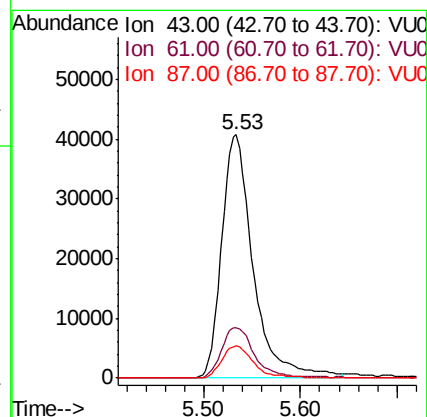
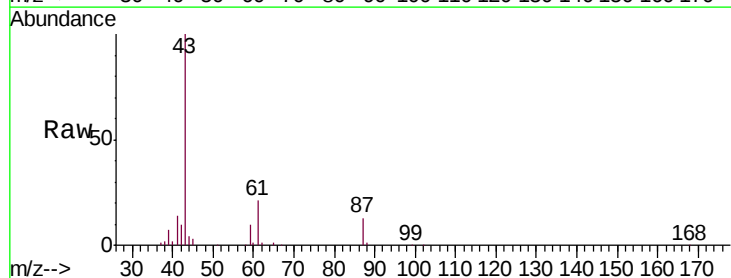
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

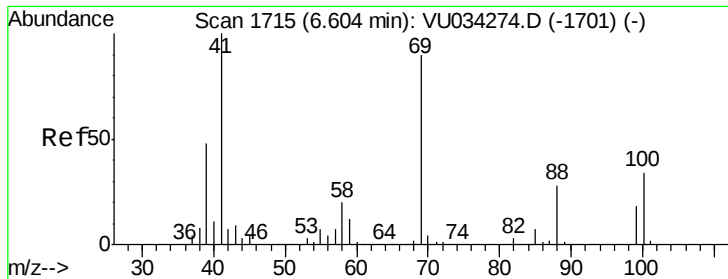
Tgt Ion: 117 Resp: 38648
Ion Ratio Lower Upper
117 100
119 5.1 77.8 116.6#
121 0.0 25.2 37.8#



#43
Isopropyl Acetate
Concen: 6.580 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Tgt Ion: 43 Resp: 92342
Ion Ratio Lower Upper
43 100
61 21.8 17.1 25.7
87 13.3 11.1 16.7

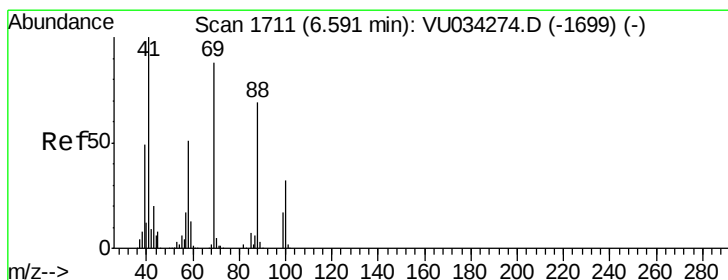
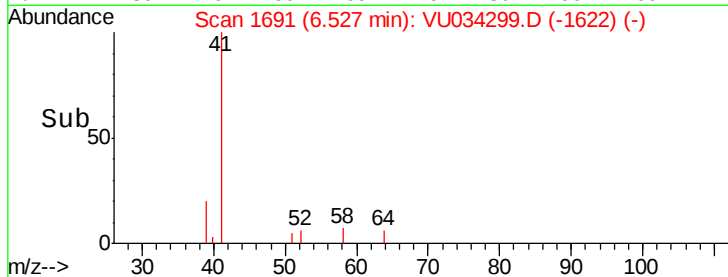
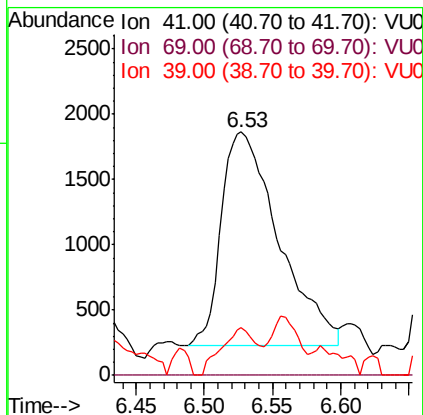
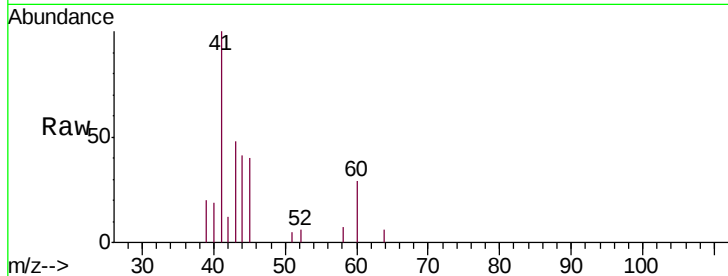




#48
Methyl methacrylate
Concen: 0.718 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.08 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

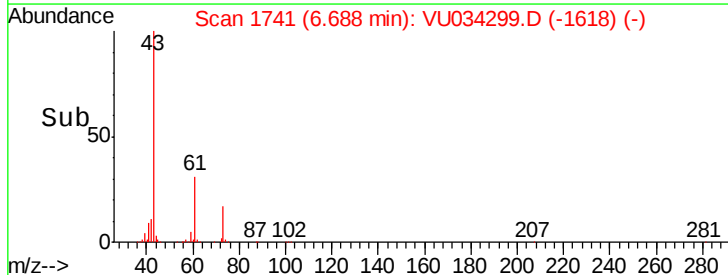
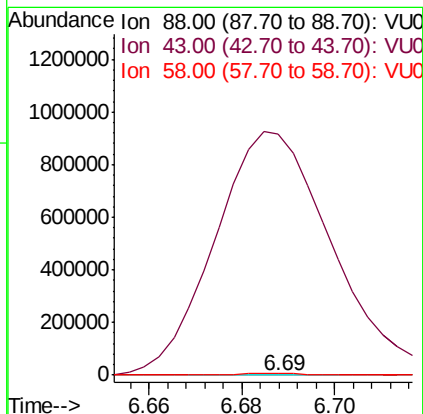
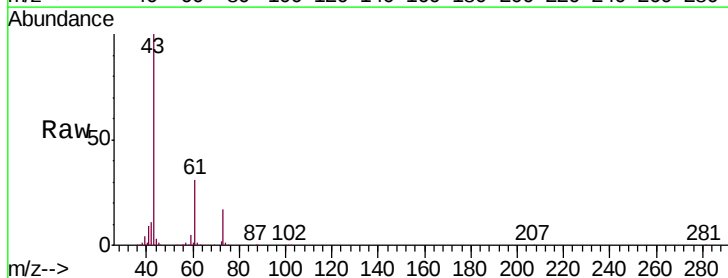
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

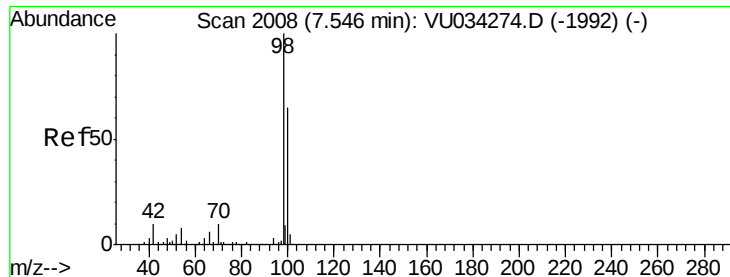
Tgt Ion: 41 Resp: 4788
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#



#49
1,4-Dioxane
Concen: 1.690 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.10 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Tgt Ion: 88 Resp: 246
Ion Ratio Lower Upper
88 100
43 686992.7 23.8 35.6#
58 3676.4 58.4 87.6#

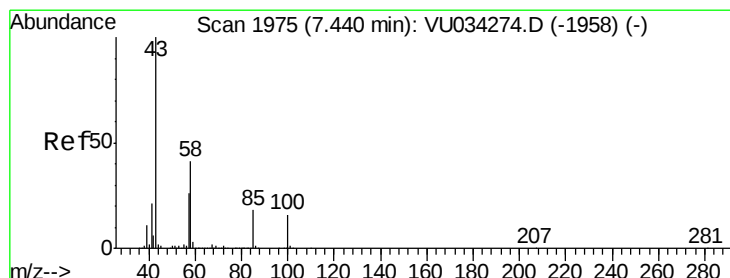
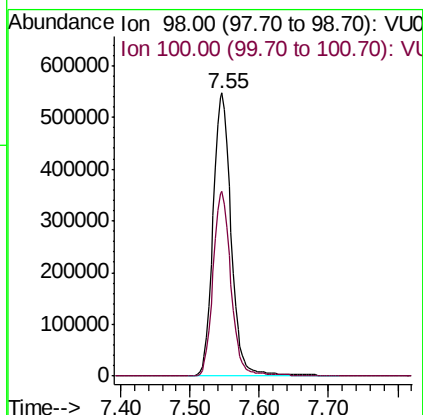
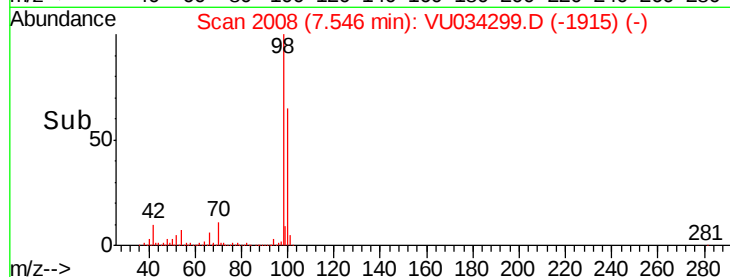
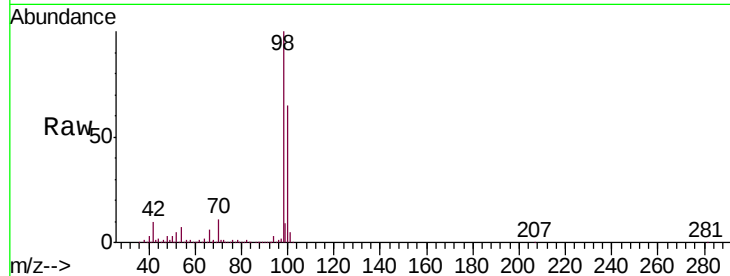




#50
Toluene-d8
Concen: 40.401 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

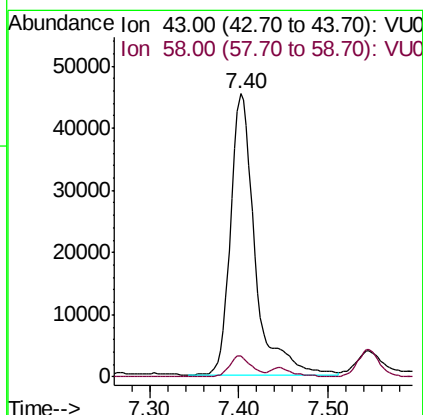
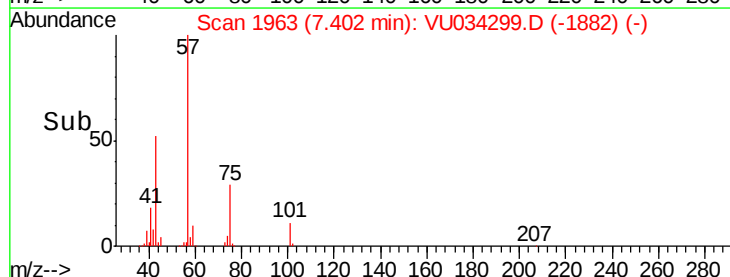
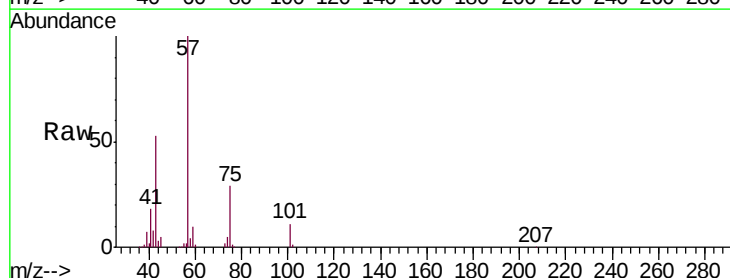
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

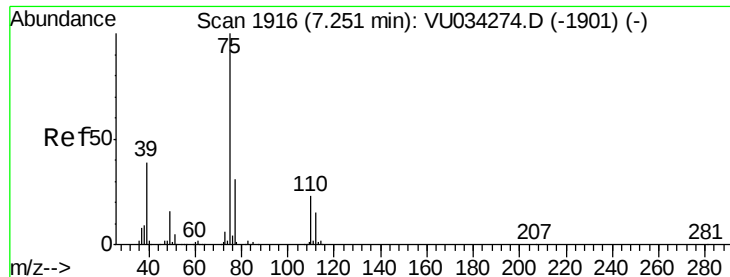
Tgt Ion: 98 Resp: 990893
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 8.920 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Tgt Ion: 43 Resp: 86652
Ion Ratio Lower Upper
43 100
58 6.9 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.070 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G2-(2.5)

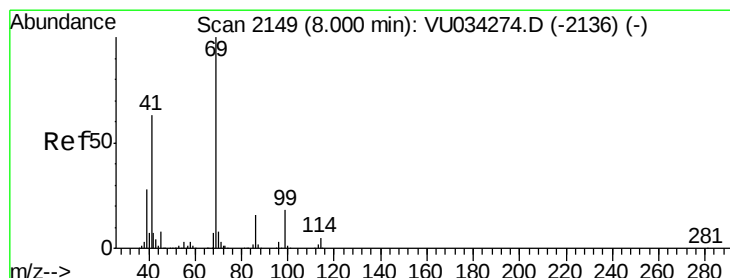
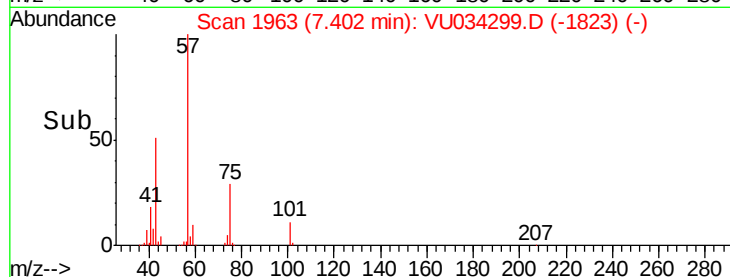
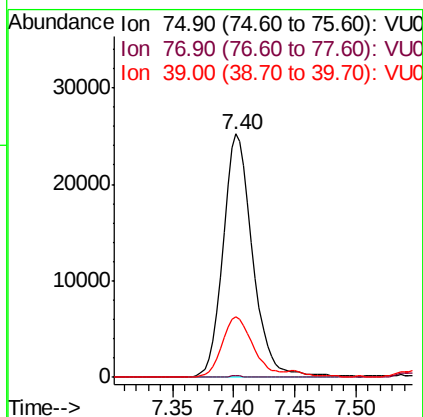
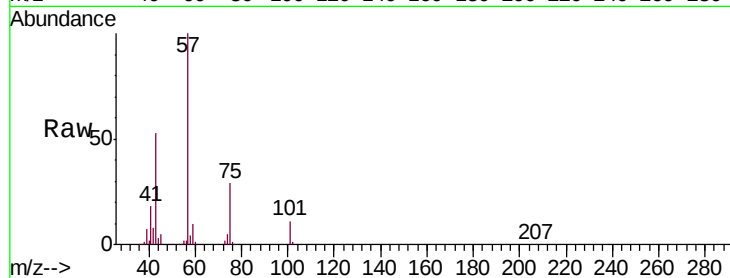
Tgt Ion: 75 Resp: 42938

Ion Ratio Lower Upper

75 100

77 0.6 25.1 37.7#

39 24.9 31.2 46.8#



#56

Ethyl methacrylate

Concen: 3.088 ug/l

RT: 7.97 min Scan# 2139

Delta R.T. -0.03 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

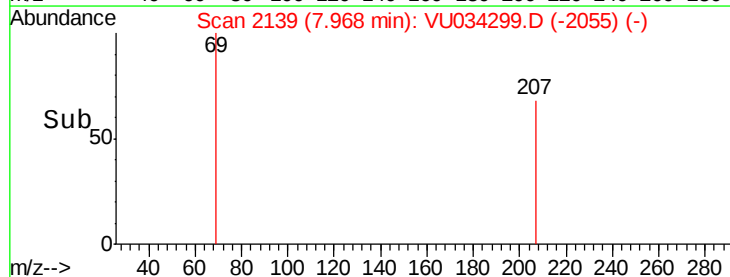
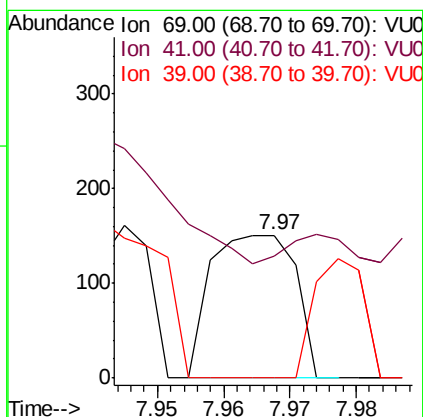
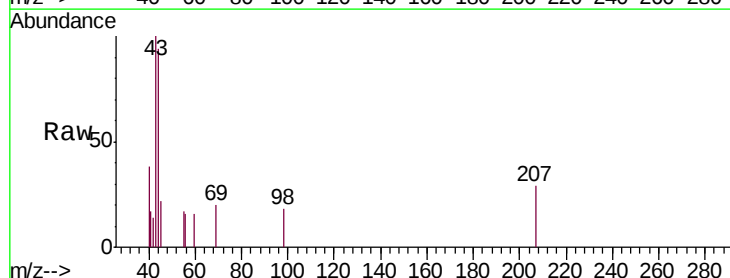
Tgt Ion: 69 Resp: 133

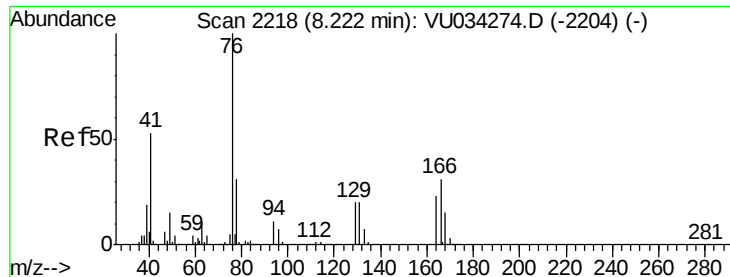
Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#





#57

1,3-Dichloropropane

Concen: 0.689 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampleId :

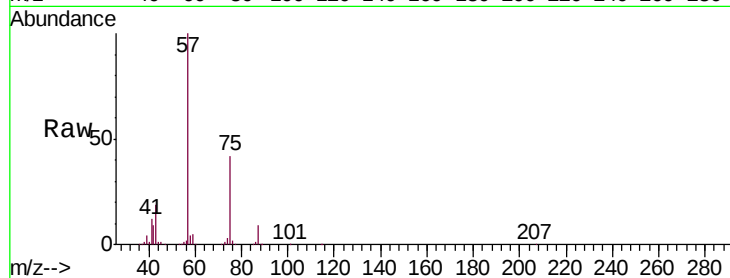
T8-S-G2-(2.5)

Tgt Ion: 76 Resp: 7849

Ion Ratio Lower Upper

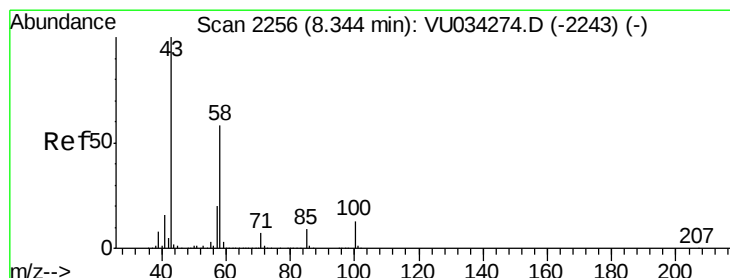
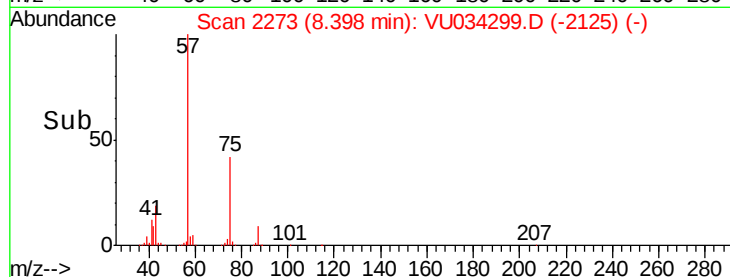
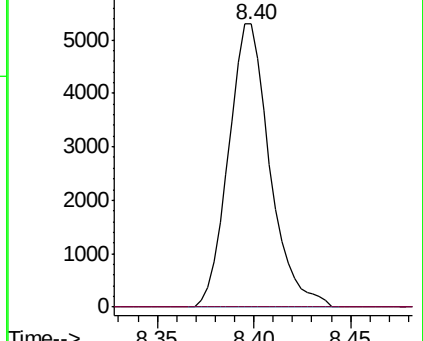
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034299.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034299.D (-2125) (-)



#59

2-Hexanone

Concen: 13.025 ug/l

RT: 8.29 min Scan# 2240

Delta R.T. -0.05 min

Lab File: VU034299.D

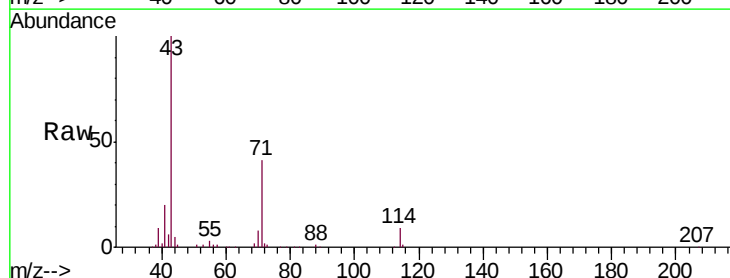
Acq: 05 Sep 2019 21:21

Tgt Ion: 43 Resp: 94521

Ion Ratio Lower Upper

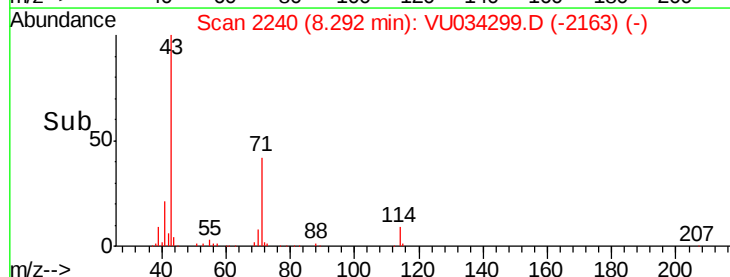
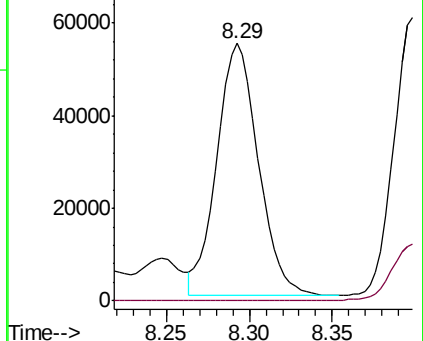
43 100

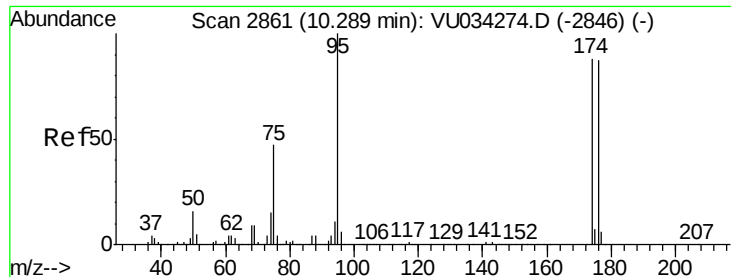
58 0.0 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034299.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034299.D (-2163) (-)

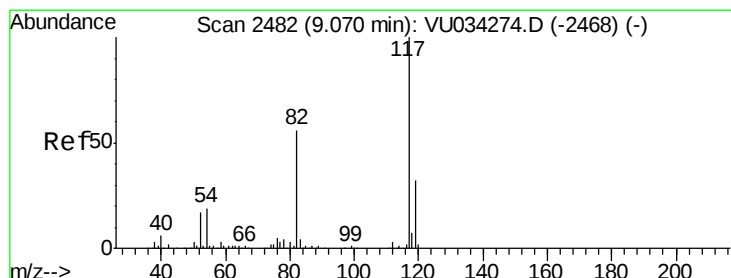
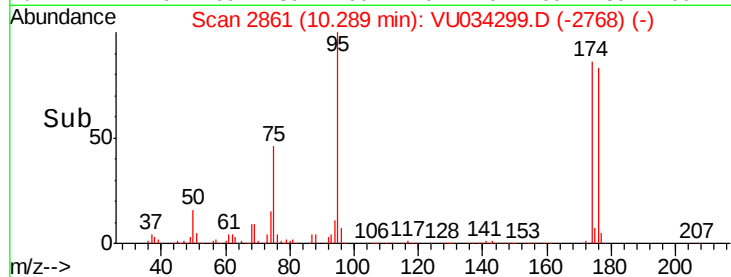
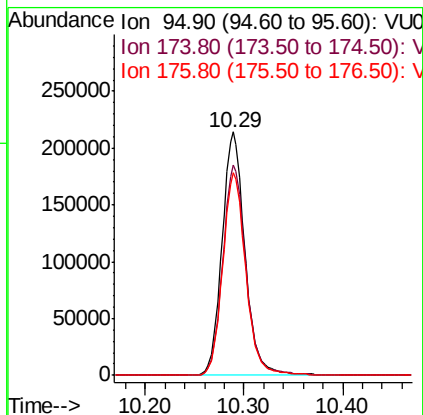
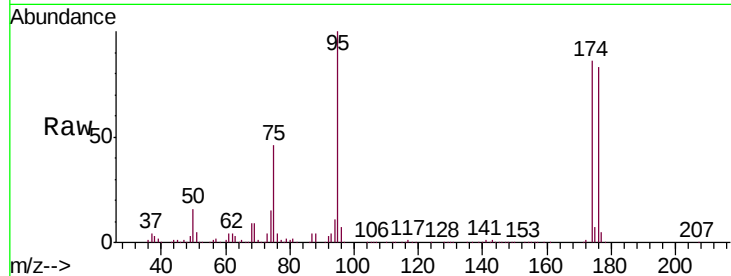




#62
4-Bromofluorobenzene
Concen: 36.878 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

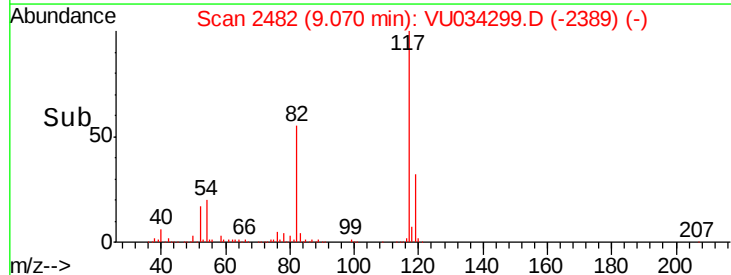
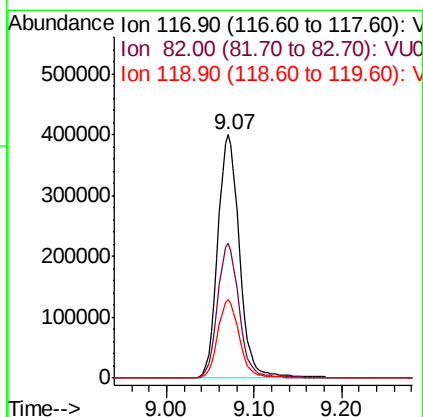
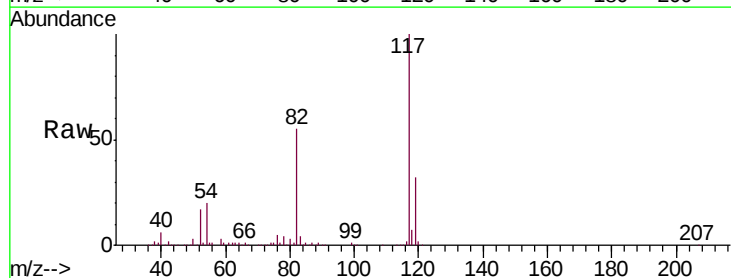
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G2-(2.5)

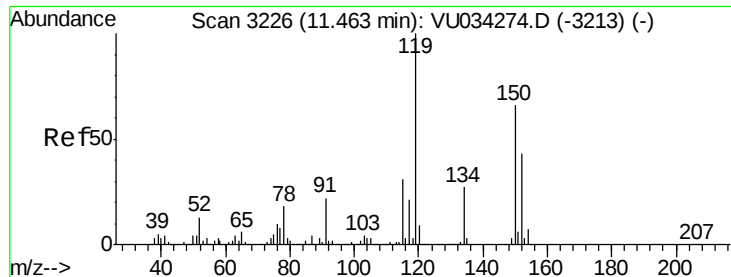
Tgt Ion: 95 Resp: 349221
Ion Ratio Lower Upper
95 100
174 87.9 0.0 175.2
176 84.3 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034299.D
Acq: 05 Sep 2019 21:21

Tgt Ion: 117 Resp: 692170
Ion Ratio Lower Upper
117 100
82 55.2 44.6 67.0
119 32.4 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G2-(2.5)

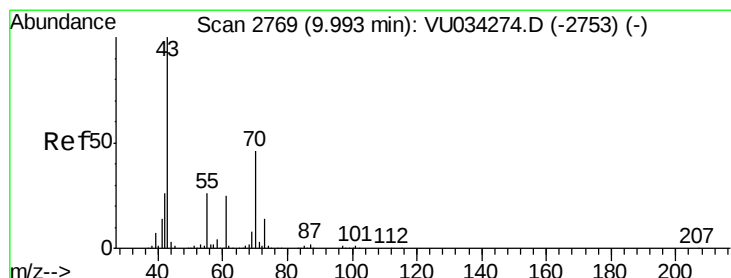
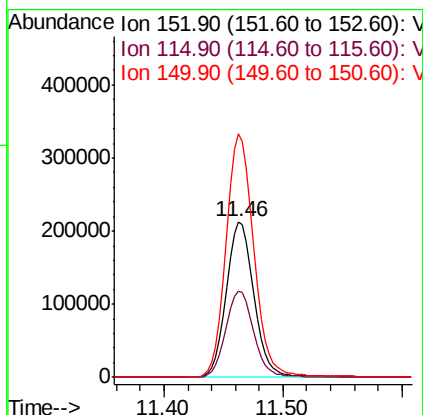
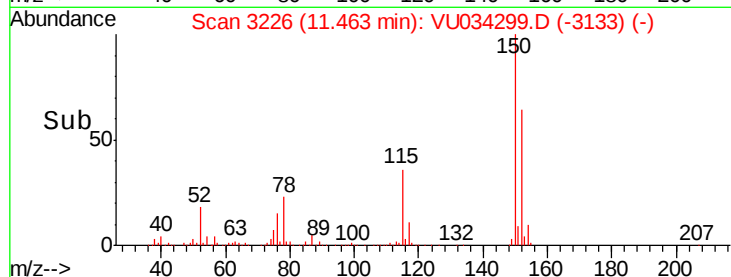
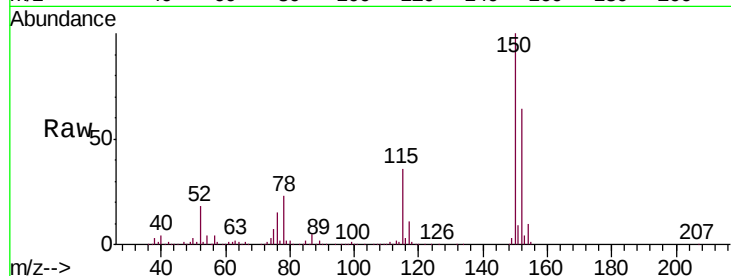
Tgt Ion:152 Resp: 345001

Ion Ratio Lower Upper

152 100

115 56.2 39.1 117.3

150 157.4 0.0 345.4



#74

N-ethyl acetate

Concen: 0.282 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Tgt Ion: 43 Resp: 2549

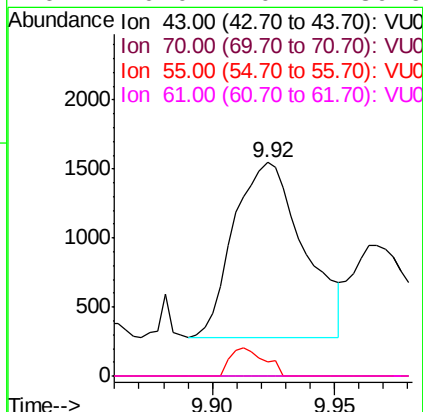
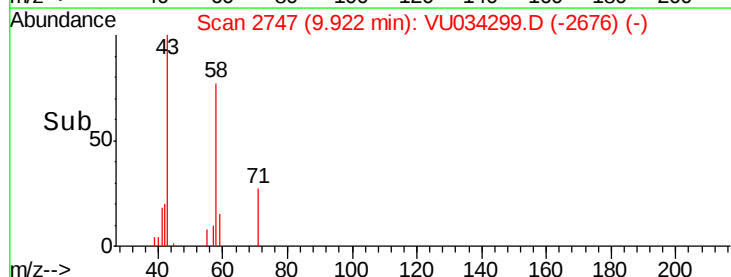
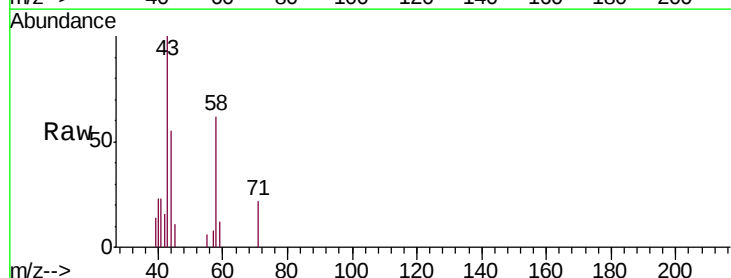
Ion Ratio Lower Upper

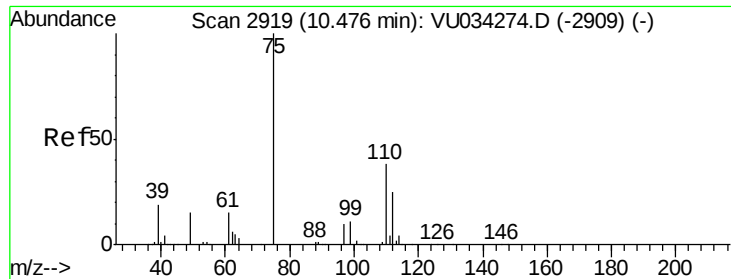
43 100

70 0.0 36.4 54.6#

55 7.7 21.2 31.8#

61 0.0 20.4 30.6#





#76

1,2,3-Trichloropropane

Concen: 21.616 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

Instrument :

MSVOA_U

ClientSampled :

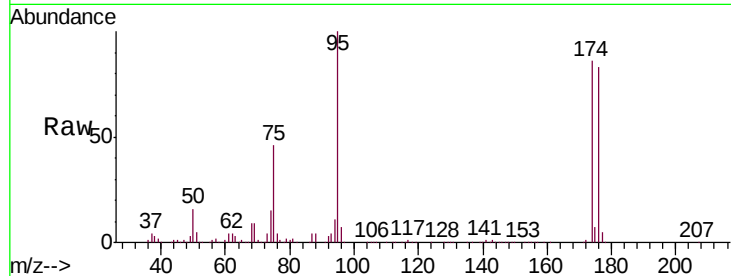
T8-S-G2-(2.5)

Tgt Ion: 75 Resp: 162782

Ion Ratio Lower Upper

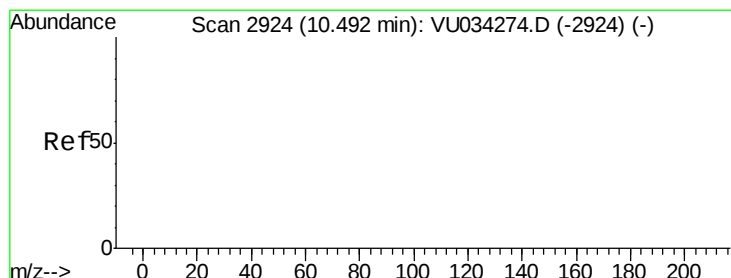
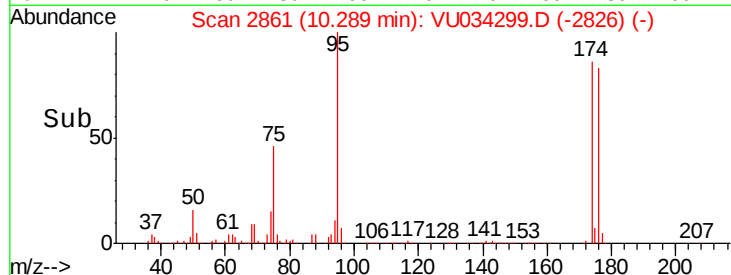
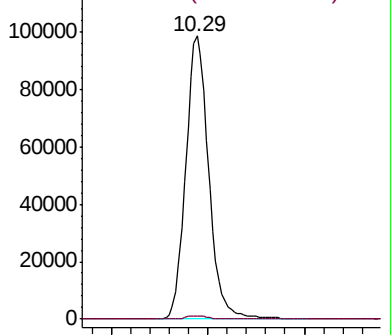
75 100

77 1.2 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: 72.692 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034299.D

Acq: 05 Sep 2019 21:21

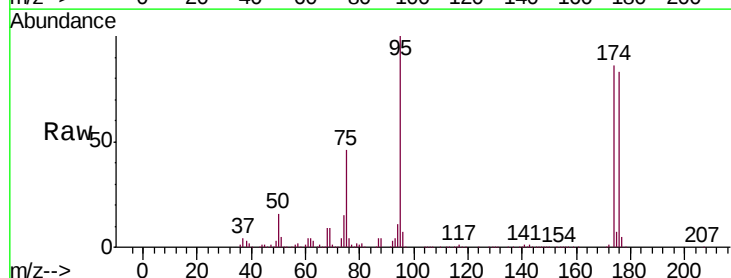
Tgt Ion: 75 Resp: 162782

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

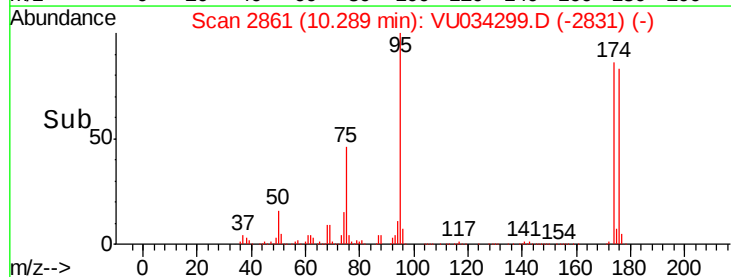
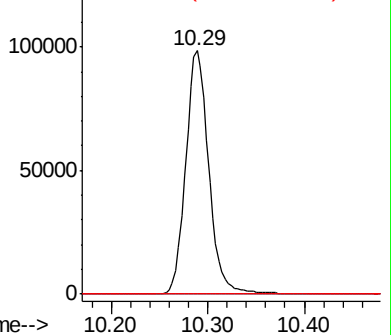
89 0.0 0.0 0.0

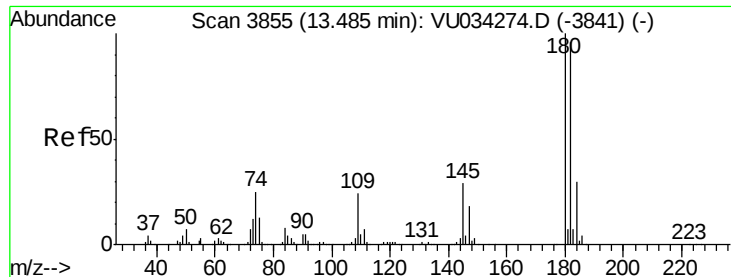


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

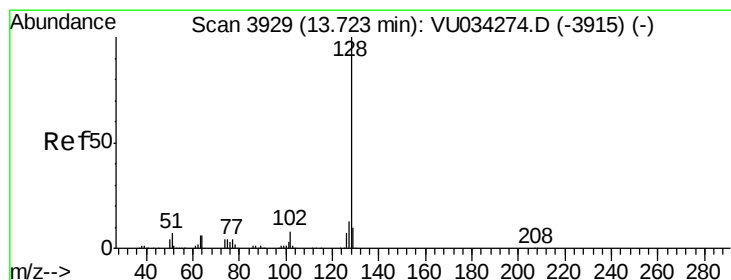
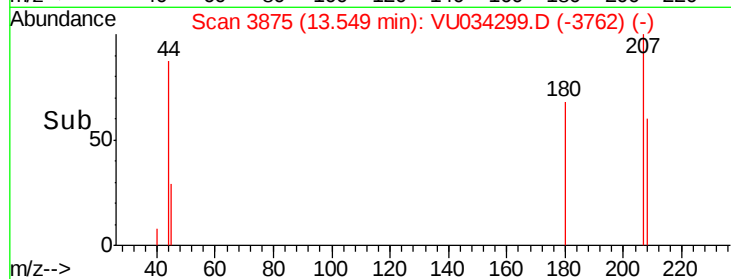
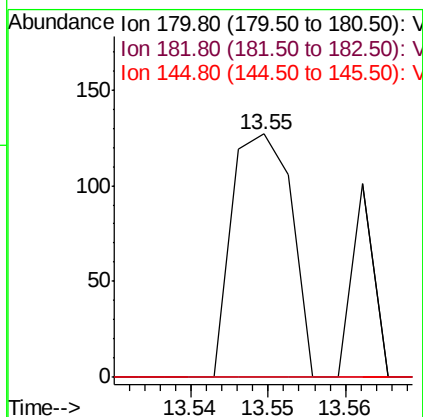
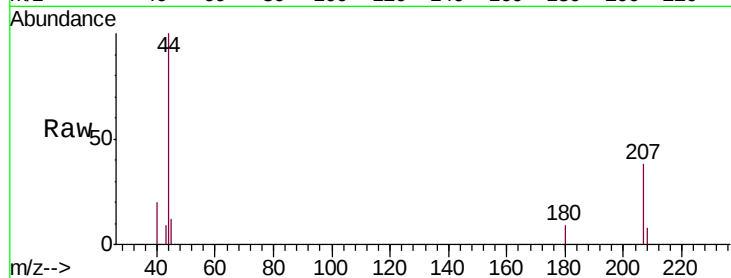




#93
 1,2,4-Trichlorobenzene
 Concen: 3.459 ug/l
 RT: 13.55 min Scan# 3875
 Delta R.T. 0.06 min
 Lab File: VU034299.D
 Acq: 05 Sep 2019 21:21

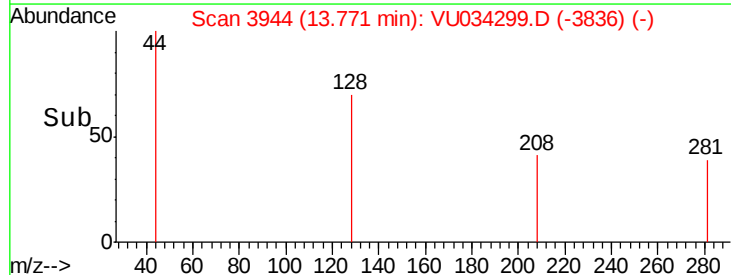
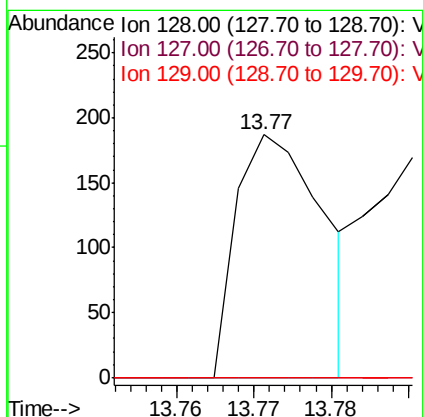
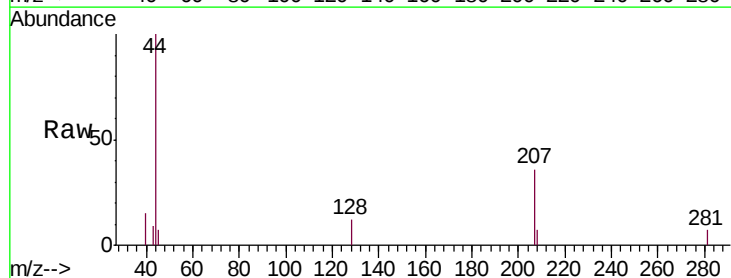
Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G2-(2.5)

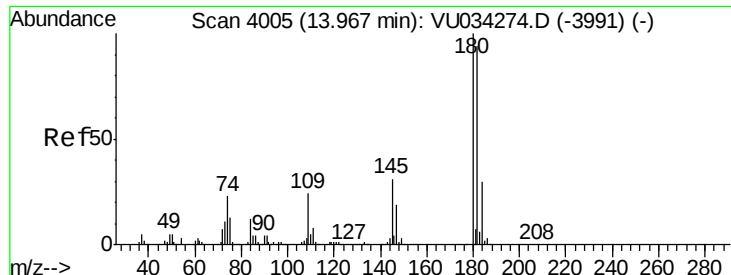
Tgt Ion:180 Resp: 68
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 3.972 ug/l
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.05 min
 Lab File: VU034299.D
 Acq: 05 Sep 2019 21:21

Tgt Ion:128 Resp: 146
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.4 12.6#

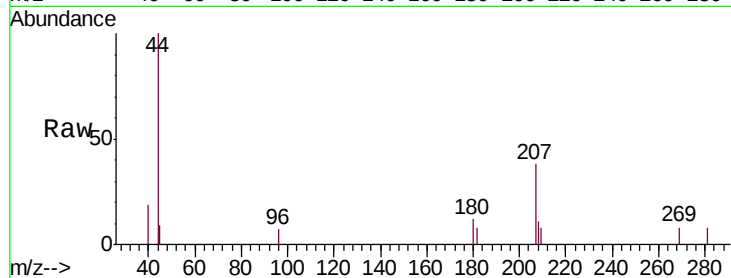




#96
 1,2,3-Trichlorobenzene
 Concen: 2.655 ug/l
 RT: 14.01 min Scan# 4018
 Delta R.T. 0.04 min
 Lab File: VU034299.D
 Acq: 05 Sep 2019 21:21

Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G2-(2.5)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	35.8	48.4	145.0#
145	0.0	15.4	46.4#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

