

Data File : VU034218.D
Acq On : 03 Sep 2019 11:32
Operator : JC/SP
Sample : K4517-14
Misc : 4.81g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T4-S-C-(2.5)

Quant Time: Sep 04 04:19:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.95	168	444088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	717871	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	695249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	356030	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.28	65	277373	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
35) Dibromofluoromethane	4.86	113	227855	45.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.52%	
50) Toluene-d8	7.54	98	891664	47.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.66%	
62) 4-Bromofluorobenzene	10.29	95	335820	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	

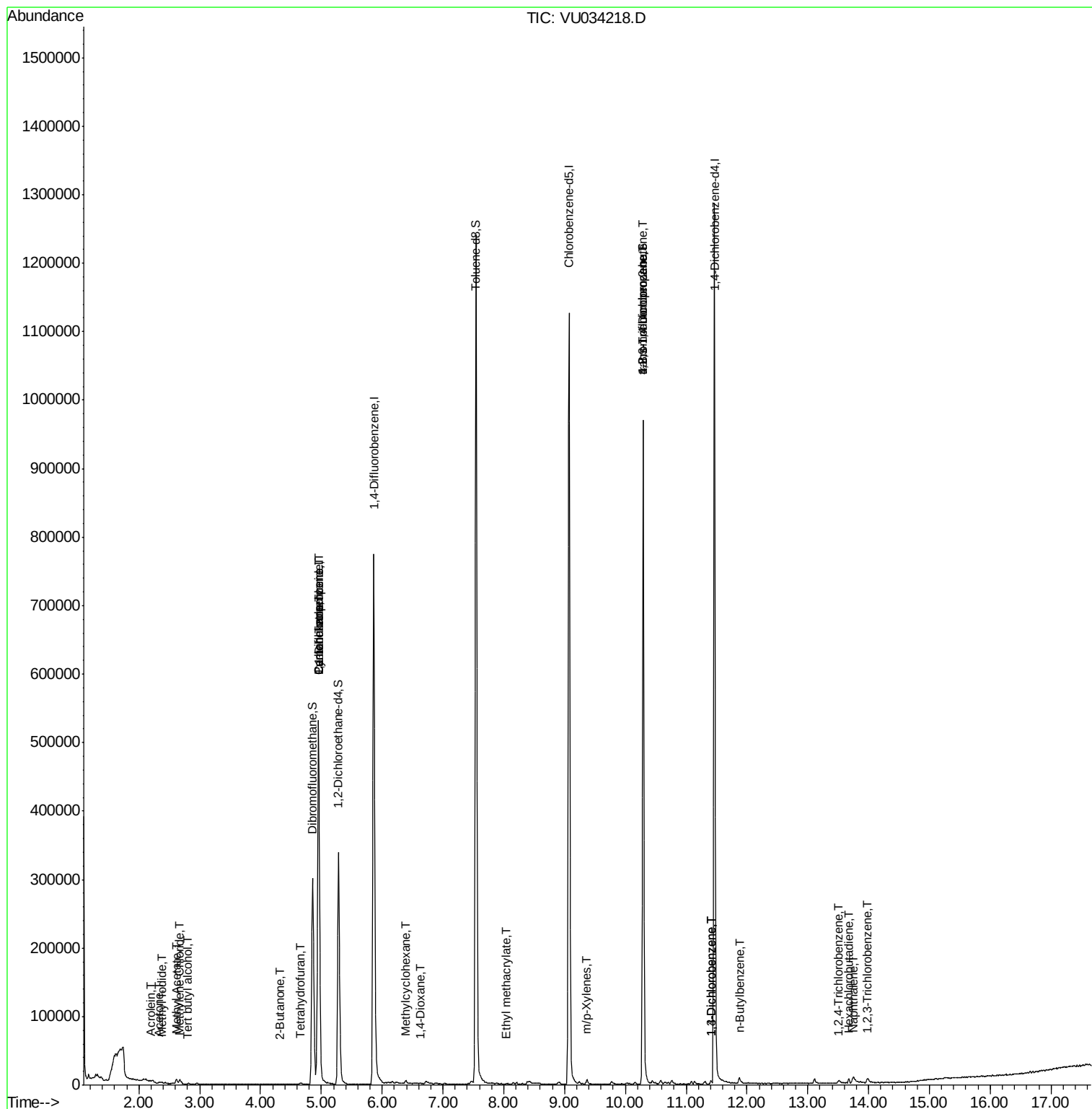
Target Compounds					Qvalue
3) Chloromethane	1.32	50	4466	Below Cal	99
5) Bromomethane	1.59	94	2338	Below Cal	95
10) Methyl Iodide	2.38	142	2978	0.481 ug/l #	94
11) Tert butyl alcohol	2.81	59	617	0.470 ug/l #	73
13) Acrolein	2.18	56	133	0.241 ug/l #	57
16) Acetone	2.33	43	2368	0.816 ug/l	89
18) Methyl Acetate	2.62	43	9539	1.271 ug/l	94
20) Methylene Chloride	2.67	84	2451	0.446 ug/l	95
25) 2-Butanone	4.31	43	1041	0.258 ug/l #	48
29) Tetrahydrofuran	4.66	42	718	0.288 ug/l #	73
31) Cyclohexane	4.95	56	8396	0.988 ug/l #	1
36) 1,1-Dichloropropene	4.95	75	31119	4.583 ug/l #	48
38) Carbon Tetrachloride	4.95	117	40370	6.159 ug/l #	16
39) Methylcyclohexane	6.39	83	1887	0.236 ug/l	94
49) 1,4-Dioxane	6.63	88	125	0.894 ug/l #	56
56) Ethyl methacrylate	8.04	69	474	1.024 ug/l #	77
68) m/p-Xylenes	9.37	106	2373	0.257 ug/l	90
76) 1,2,3-Trichloropropane	10.29	75	160677	20.024 ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	160677	67.425 ug/l #	100
87) 1,3-Dichlorobenzene	11.41	146	2480	0.218 ug/l	92
88) 1,4-Dichlorobenzene	11.41	146	2480	0.215 ug/l	92
89) n-Butylbenzene	11.88	91	4596	0.241 ug/l	89
93) 1,2,4-Trichlorobenzene	13.50	180	2935	1.484 ug/l	97
94) Hexachlorobutadiene	13.67	225	1650	0.387 ug/l	92
95) Naphthalene	13.74	128	15729	2.472 ug/l #	93
96) 1,2,3-Trichlorobenzene	13.98	180	4002	0.573 ug/l	95

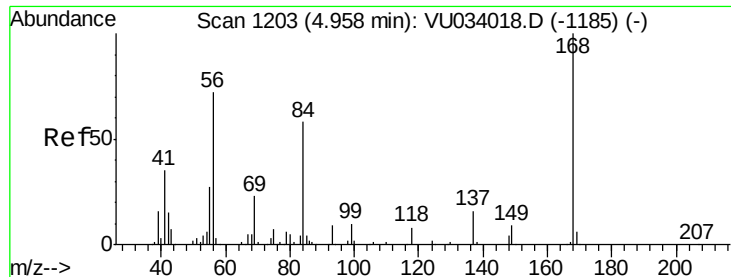
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.95 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

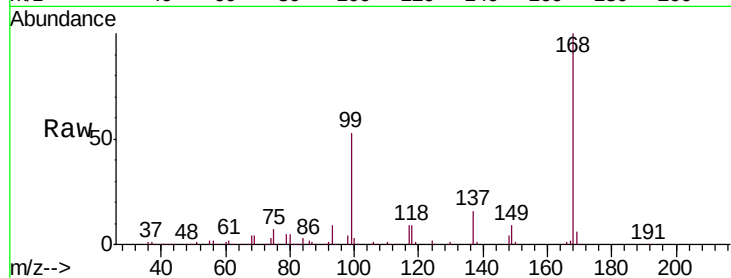
T4-S-C-(2.5)

Tgt Ion:168 Resp: 444088

Ion Ratio Lower Upper

168 100

99 53.2 42.3 63.5



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

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

4.95

200000

150000

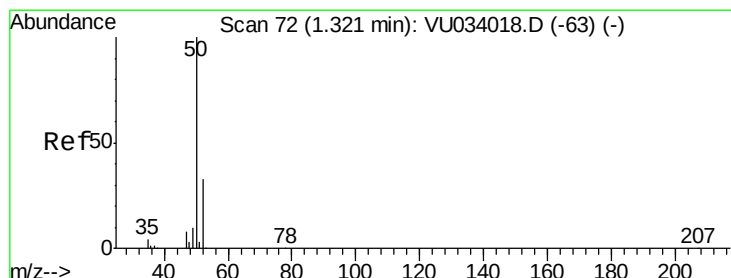
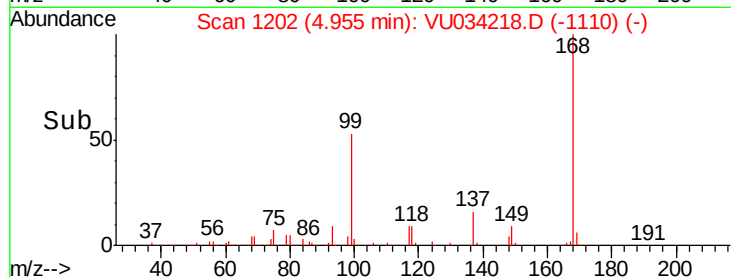
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VU034218.D

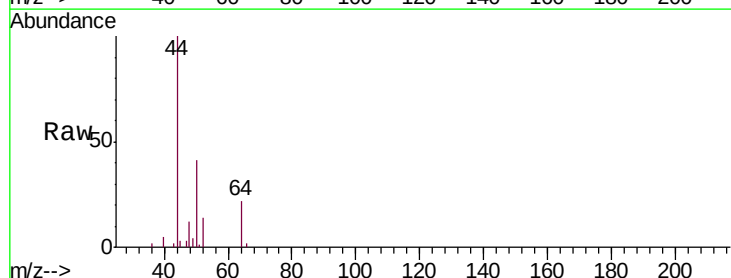
Acq: 03 Sep 2019 11:32

Tgt Ion: 50 Resp: 4466

Ion Ratio Lower Upper

50 100

52 33.4 26.2 39.4



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

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

1.32

3000

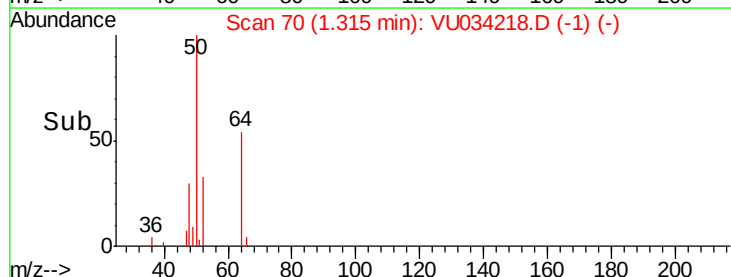
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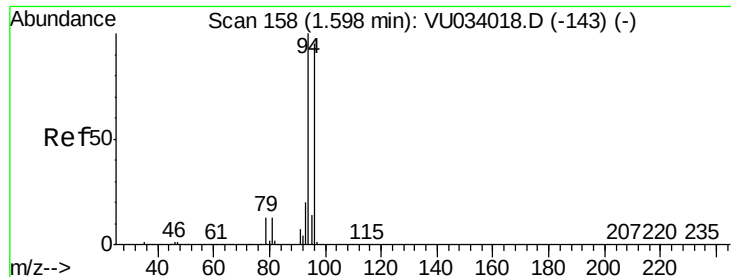
1000

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

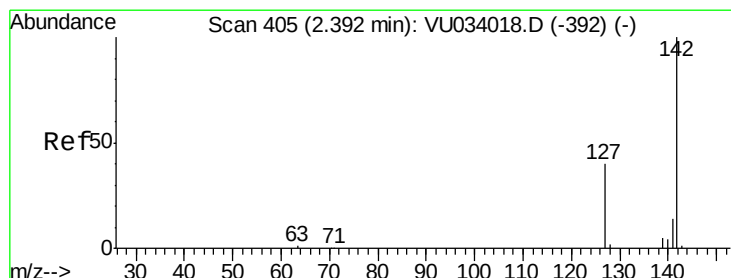
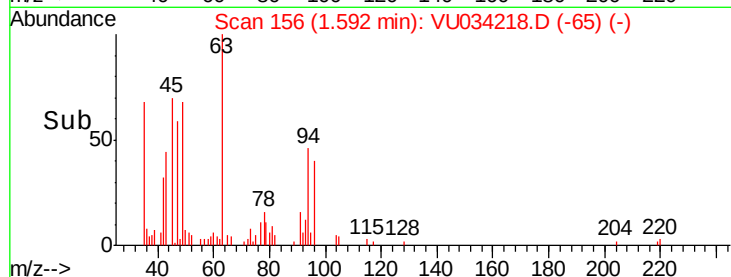
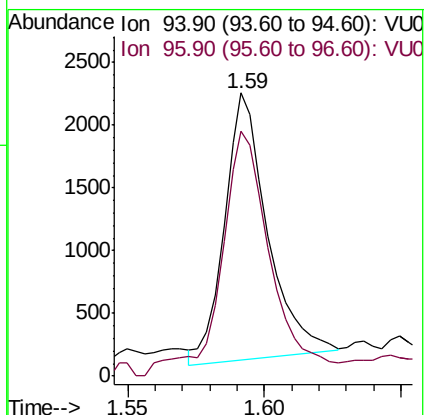
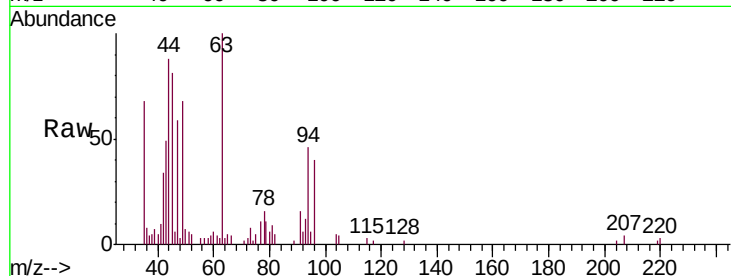
T4-S-C-(2.5)

Tgt Ion: 94 Resp: 2338

Ion Ratio Lower Upper

94 100

96 90.4 76.3 114.5



#10

Methyl Iodide

Concen: 0.481 ug/l

RT: 2.38 min Scan# 401

Delta R.T. -0.01 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

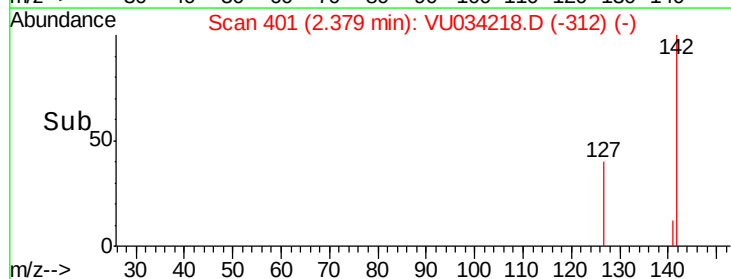
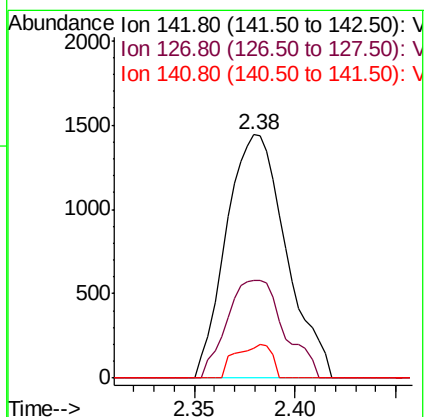
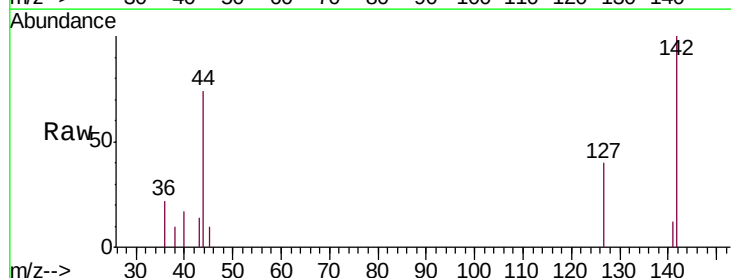
Tgt Ion: 142 Resp: 2978

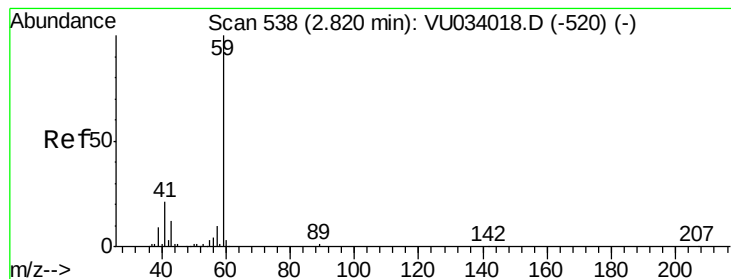
Ion Ratio Lower Upper

142 100

127 38.3 32.6 48.8

141 8.4 11.3 16.9#





#11

Tert butyl alcohol

Concen: 0.470 ug/l

RT: 2.81 min Scan# 536

Delta R.T. -0.01 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

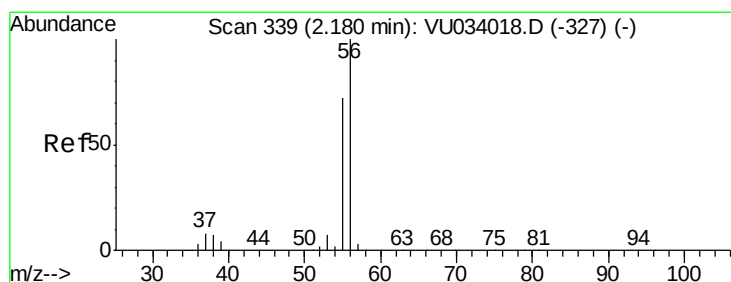
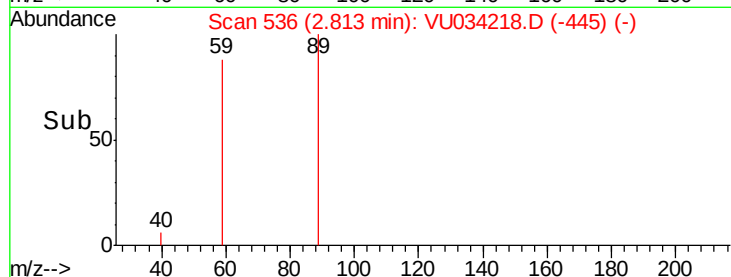
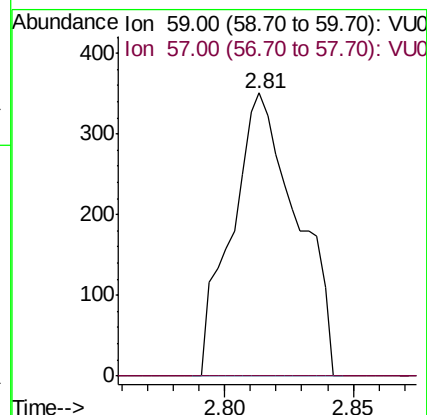
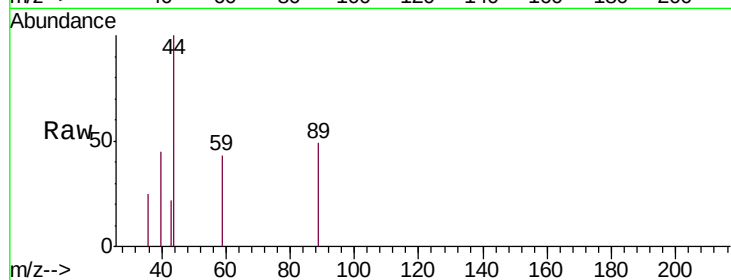
T4-S-C-(2.5)

Tgt Ion: 59 Resp: 617

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#13

Acrolein

Concen: 0.241 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034218.D

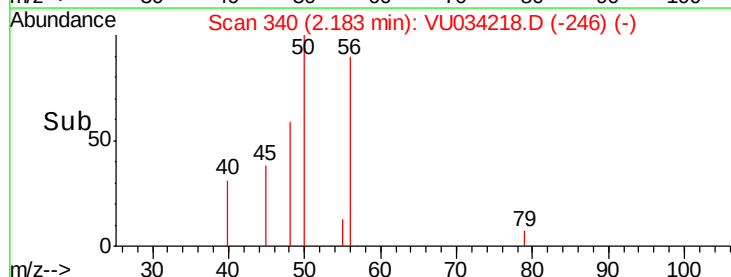
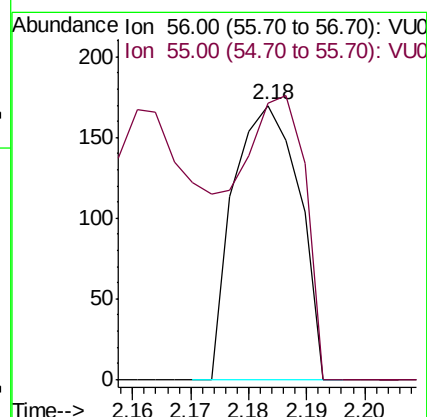
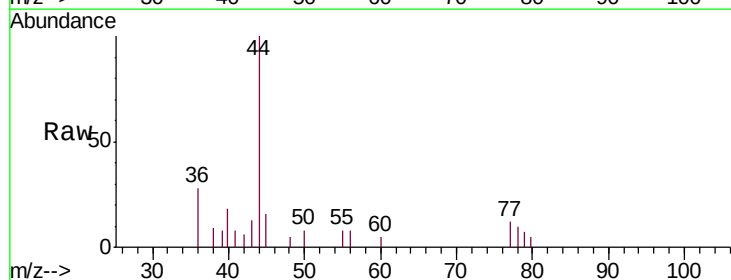
Acq: 03 Sep 2019 11:32

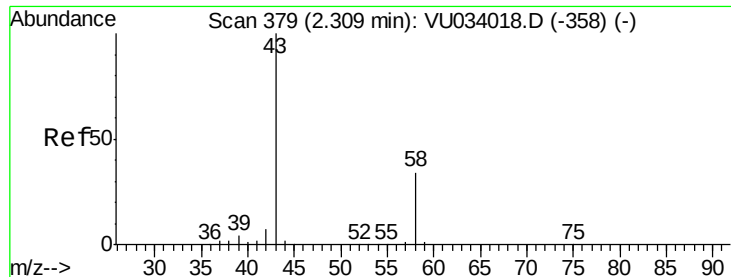
Tgt Ion: 56 Resp: 133

Ion Ratio Lower Upper

56 100

55 106.8 57.1 85.7#





#16

Acetone

Concen: 0.816 ug/l

RT: 2.33 min Scan# 385

Delta R.T. 0.02 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

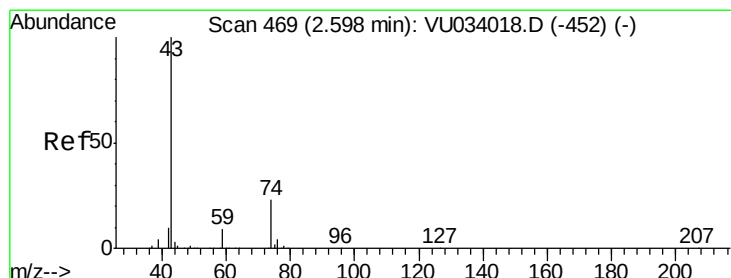
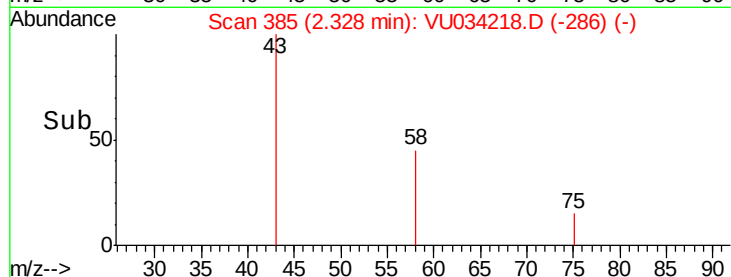
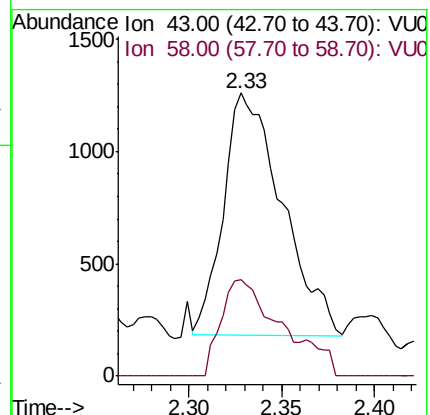
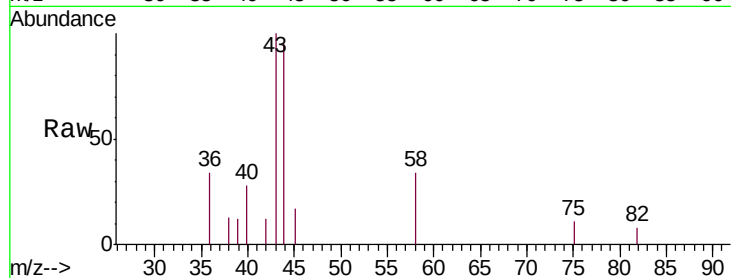
T4-S-C-(2.5)

Tgt Ion: 43 Resp: 2368

Ion Ratio Lower Upper

43 100

58 39.9 26.8 40.2



#18

Methyl Acetate

Concen: 1.271 ug/l

RT: 2.62 min Scan# 475

Delta R.T. 0.02 min

Lab File: VU034218.D

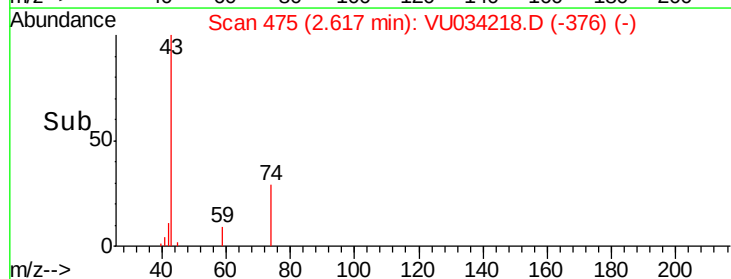
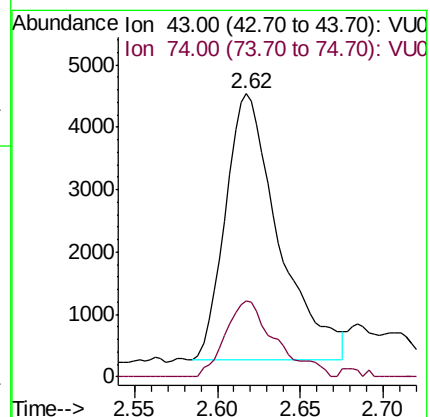
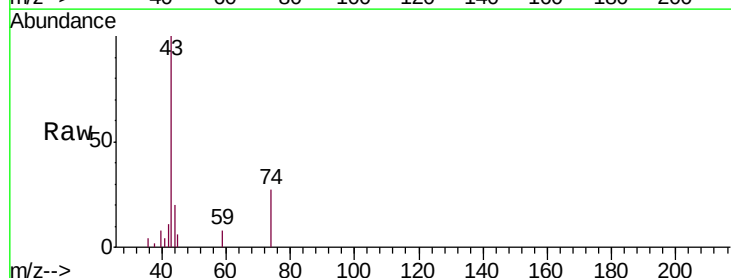
Acq: 03 Sep 2019 11:32

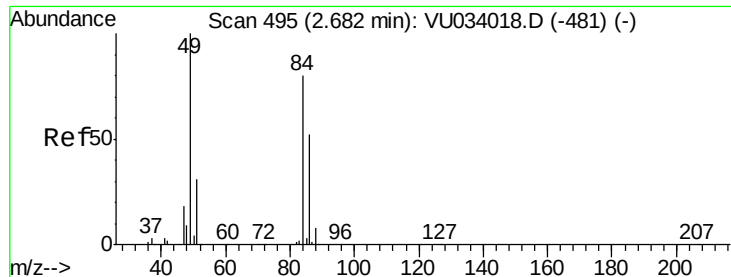
Tgt Ion: 43 Resp: 9539

Ion Ratio Lower Upper

43 100

74 27.0 19.2 28.8

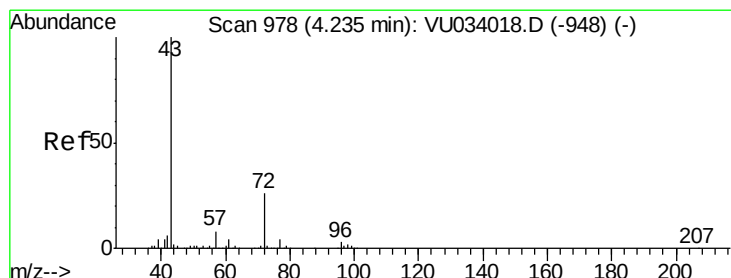
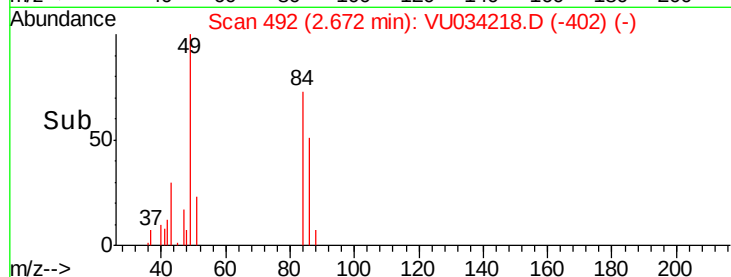
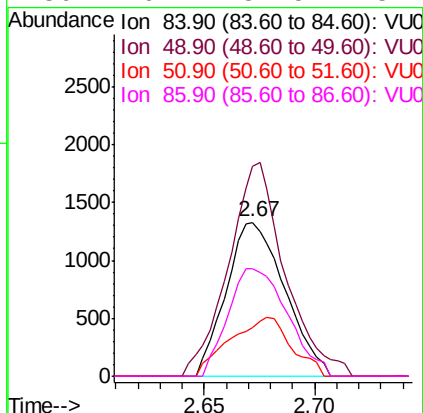
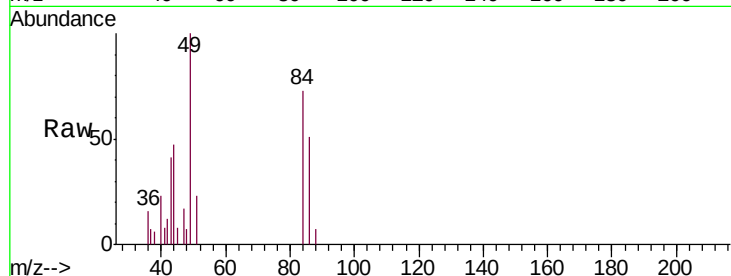




#20
Methylene Chloride
Concen: 0.446 ug/l
RT: 2.67 min Scan# 492
Delta R.T. -0.01 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

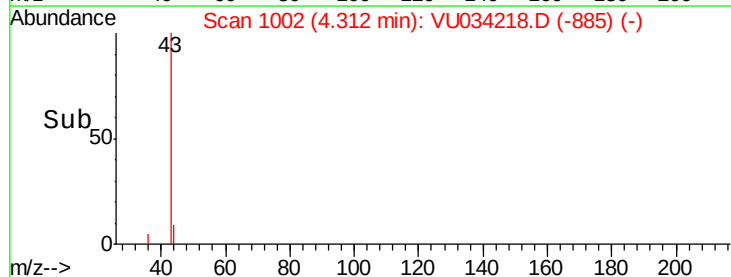
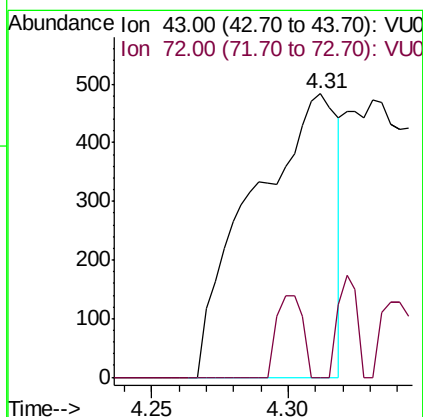
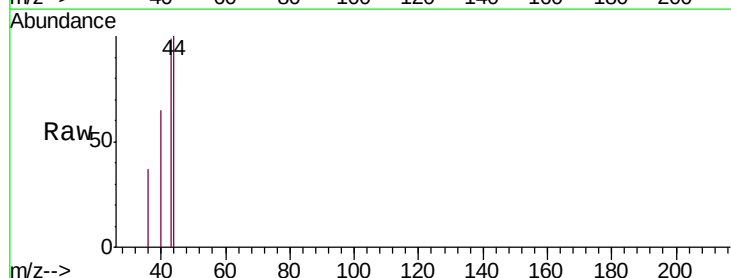
Instrument :
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ClientSampleId :
T4-S-C-(2.5)

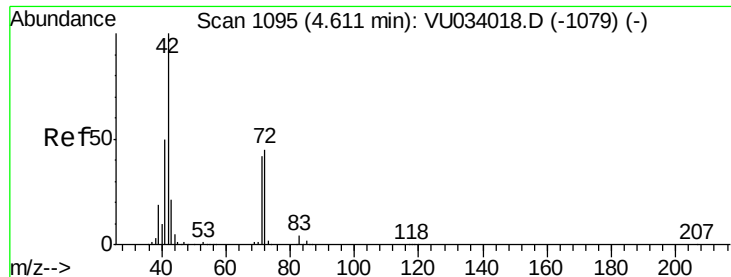
Tgt Ion: 84 Resp: 2451
Ion Ratio Lower Upper
84 100
49 128.9 100.2 150.4
51 31.8 30.8 46.2
86 70.4 52.5 78.7



#25
2-Butanone
Concen: 0.258 ug/l
RT: 4.31 min Scan# 1002
Delta R.T. 0.08 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

Tgt Ion: 43 Resp: 1041
Ion Ratio Lower Upper
43 100
72 0.0 21.2 31.8#

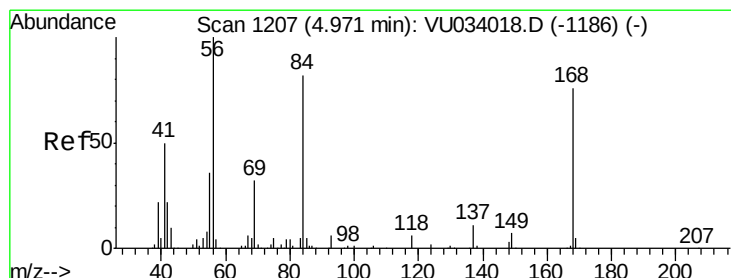
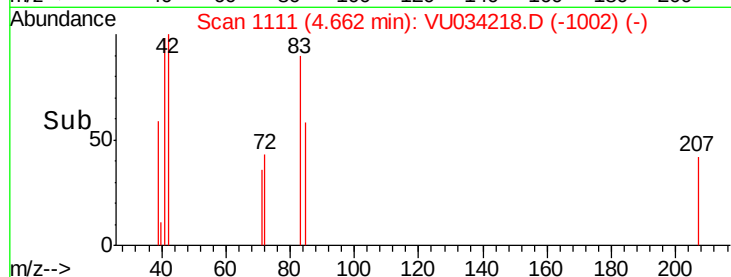
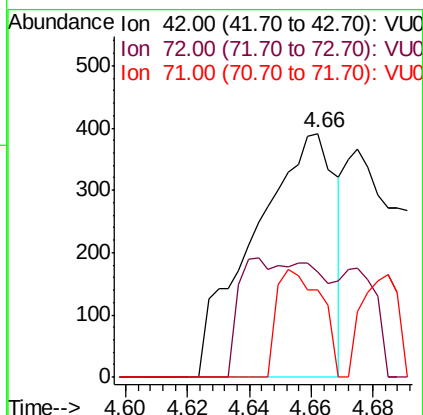
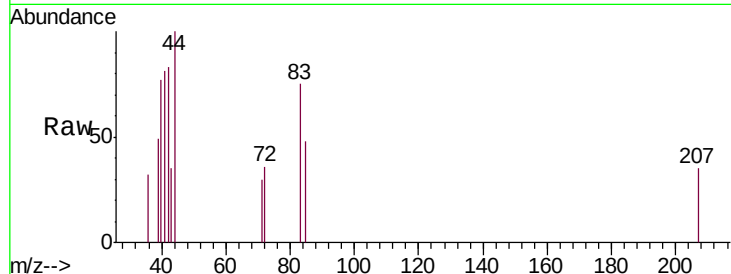




#29
Tetrahydrofuran
Concen: 0.288 ug/l
RT: 4.66 min Scan# 1111
Delta R.T. 0.05 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

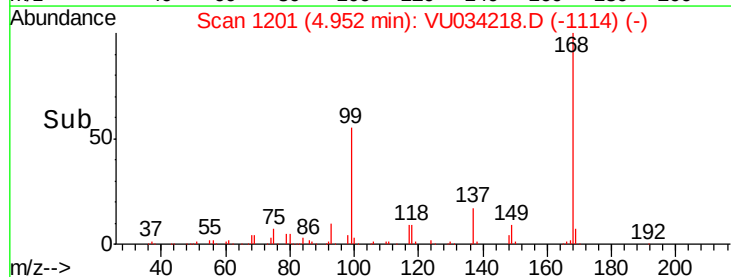
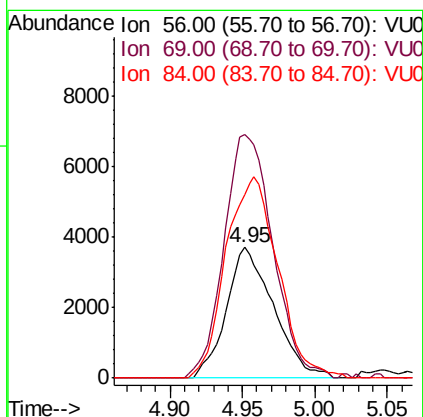
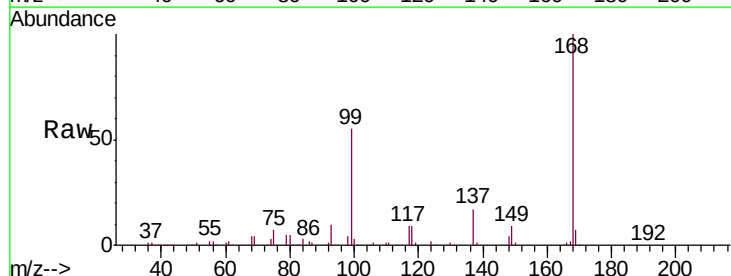
Instrument :
MSVOA_U
ClientSampled :
T4-S-C-(2.5)

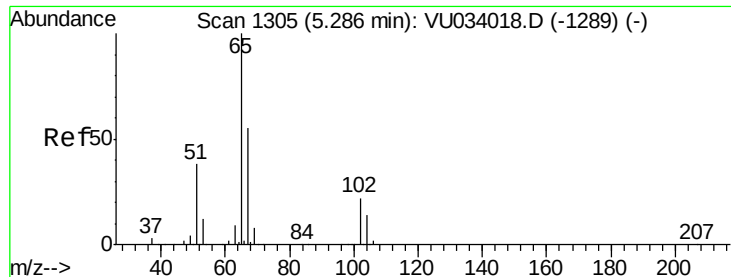
Tgt Ion: 42 Resp: 718
Ion Ratio Lower Upper
42 100
72 28.4 35.8 53.6#
71 23.7 34.0 51.0#



#31
Cyclohexane
Concen: 0.988 ug/l
RT: 4.95 min Scan# 1201
Delta R.T. -0.02 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

Tgt Ion: 56 Resp: 8396
Ion Ratio Lower Upper
56 100
69 186.3 25.4 38.0#
84 140.0 65.8 98.8#

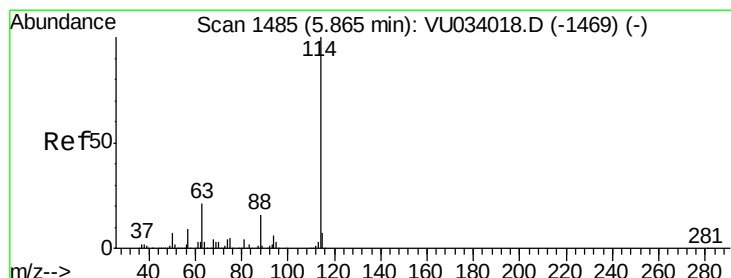
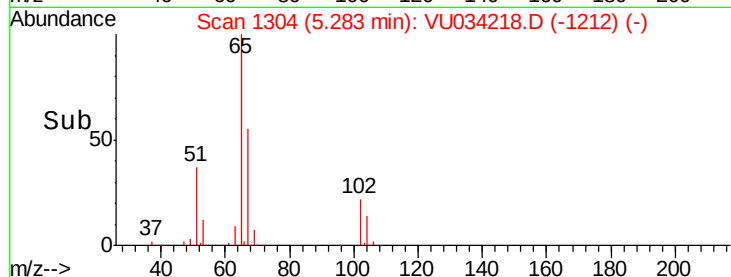
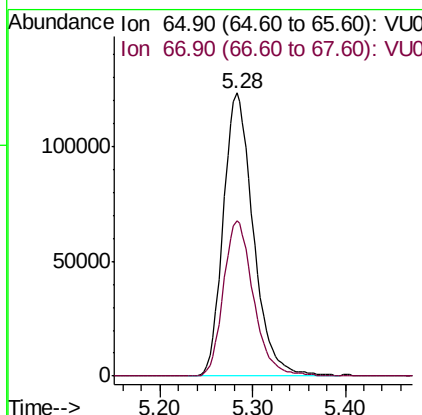
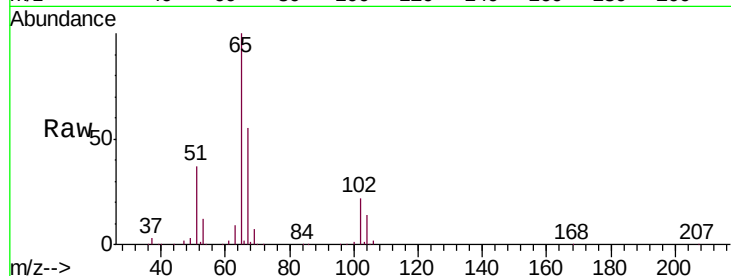




#33
 1,2-Dichloroethane-d4
 Concen: 48.745 ug/l
 RT: 5.28 min Scan# 1304
 Delta R.T. -0.00 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

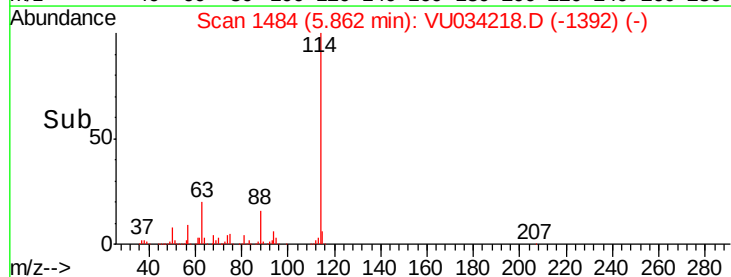
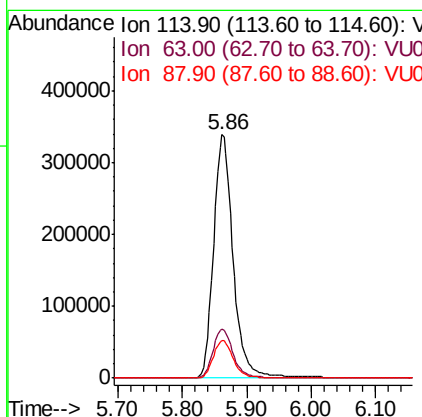
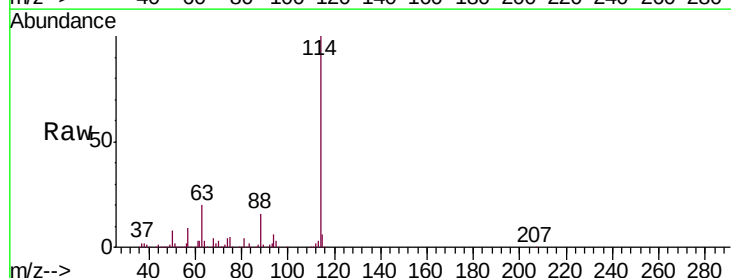
Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-C-(2.5)

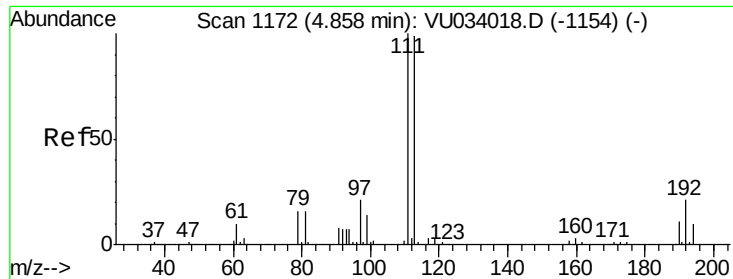
Tgt Ion: 65 Resp: 277373
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

Tgt Ion: 114 Resp: 717871
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 42.0
 88 15.7 0.0 32.0

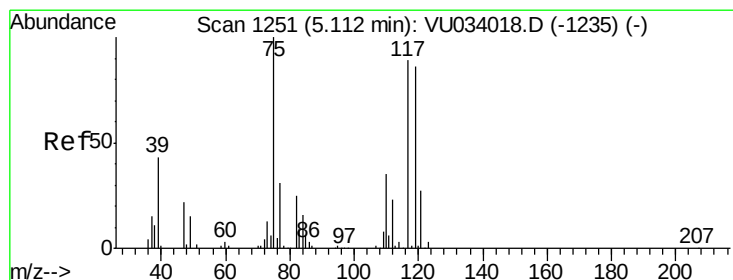
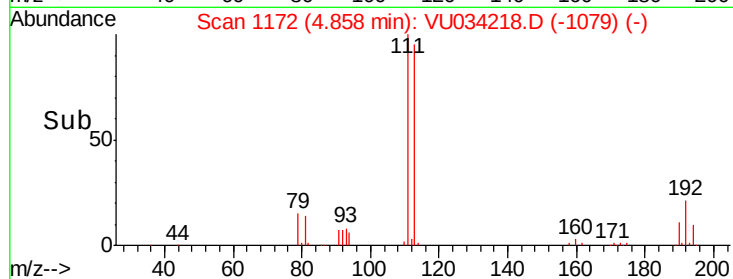
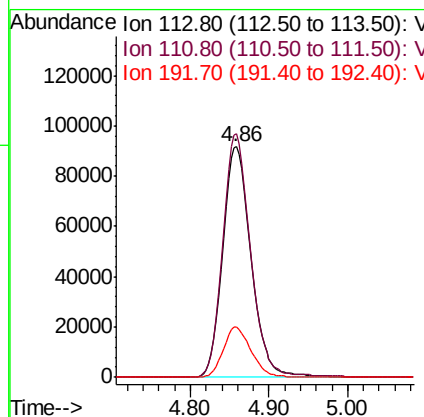
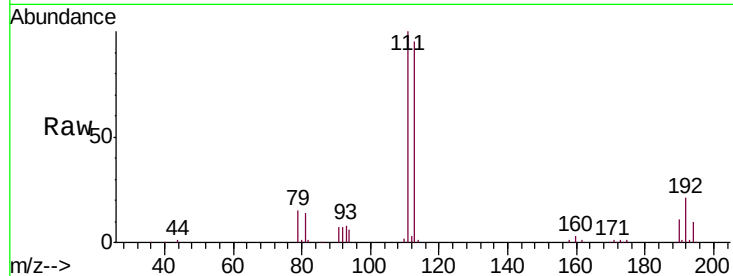




#35
 Dibromofluoromethane
 Concen: 45.762 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

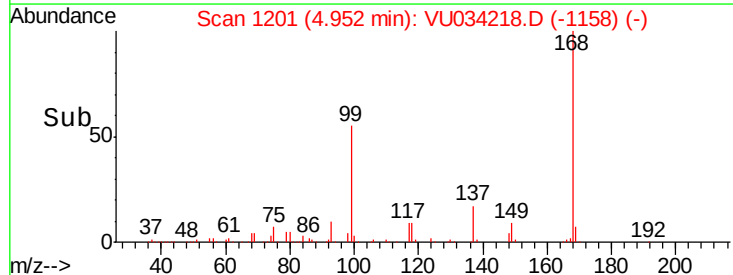
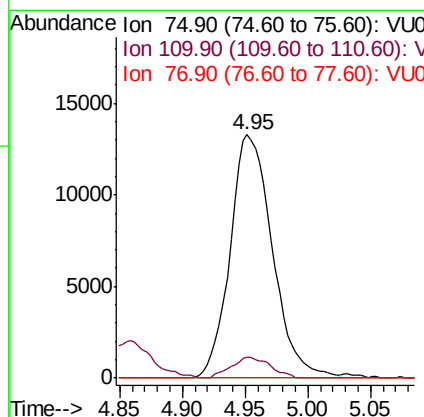
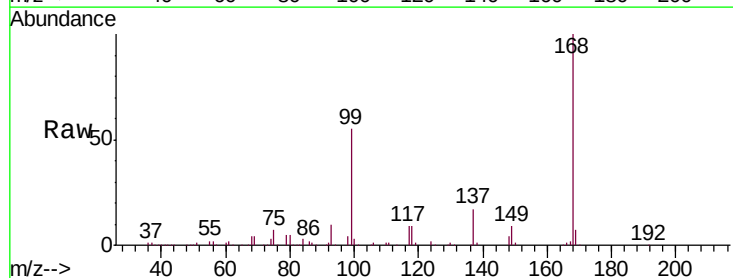
Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-C-(2.5)

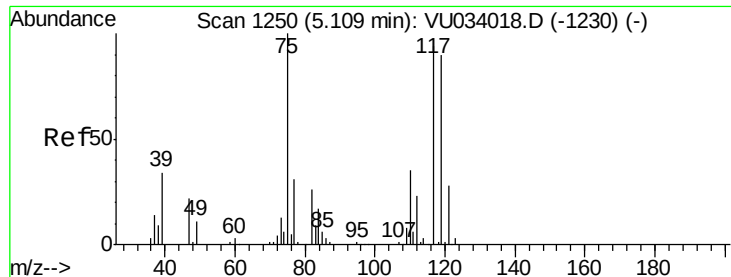
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.7	122.5
192	21.5	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.583 ug/l
 RT: 4.95 min Scan# 1201
 Delta R.T. -0.16 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.8	53.5#
77	0.0	25.0	37.4#

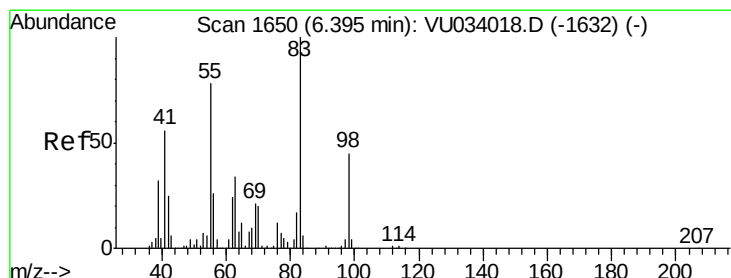
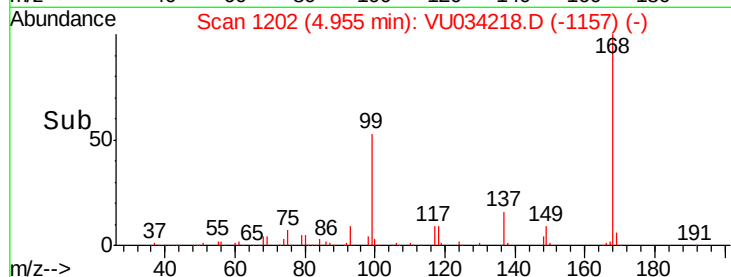
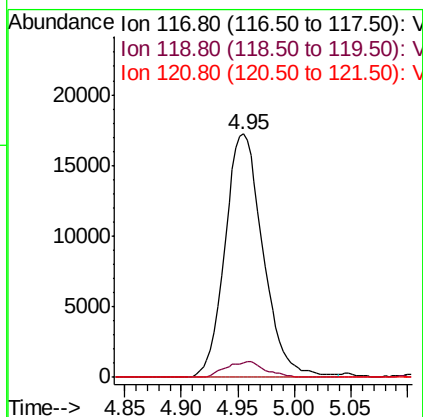
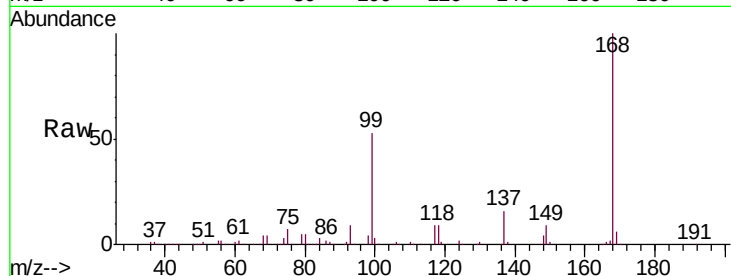




#38
Carbon Tetrachloride
Concen: 6.159 ug/l
RT: 4.95 min Scan# 1202
Delta R.T. -0.15 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

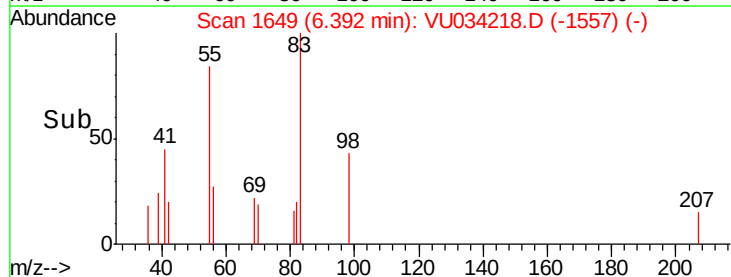
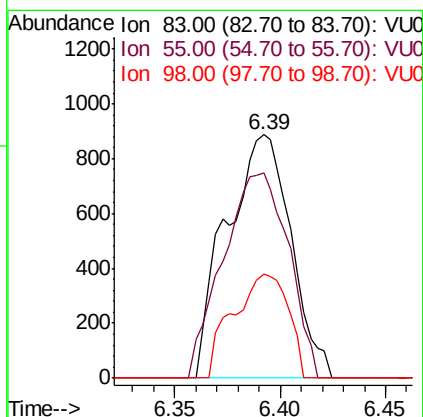
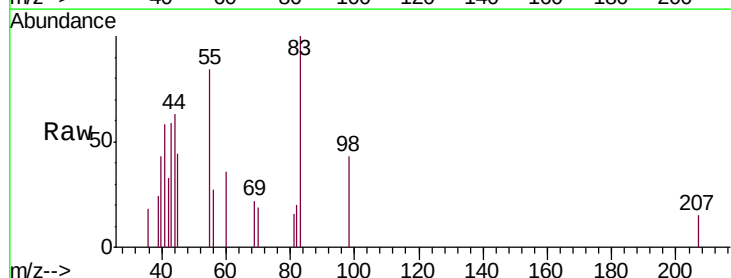
Instrument :
MSVOA_U
ClientSampleId :
T4-S-C-(2.5)

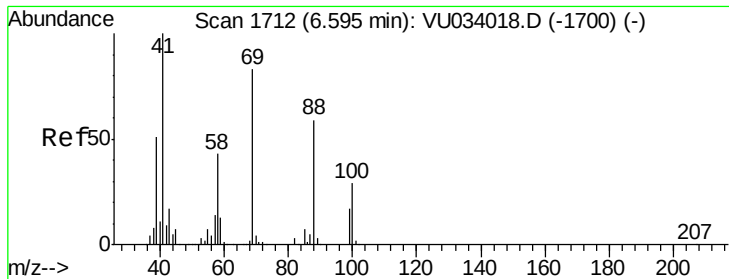
Tgt Ion: 117 Resp: 40370
Ion Ratio Lower Upper
117 100
119 5.8 77.0 115.4#
121 0.0 23.9 35.9#



#39
Methylcyclohexane
Concen: 0.236 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

Tgt Ion: 83 Resp: 1887
Ion Ratio Lower Upper
83 100
55 84.0 62.3 93.5
98 42.9 36.2 54.2

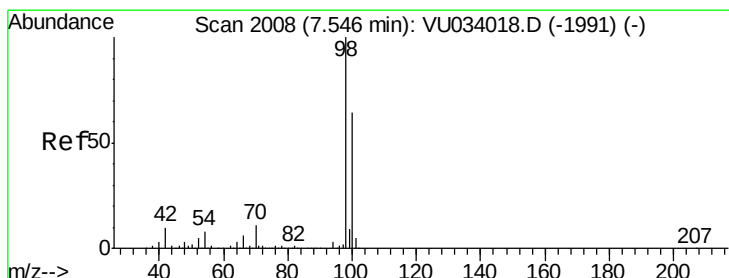
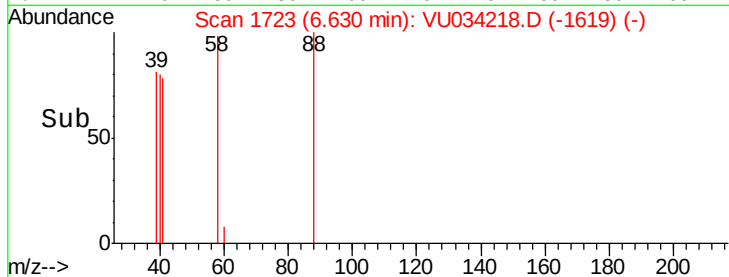
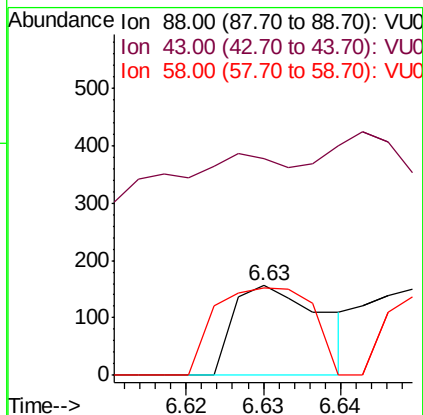
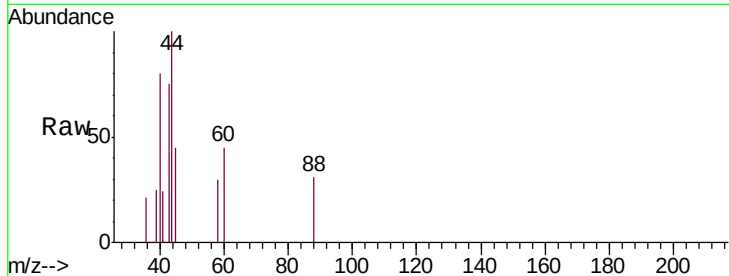




#49
1,4-Dioxane
Concen: 0.894 ug/l
RT: 6.63 min Scan# 1723
Delta R.T. 0.04 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

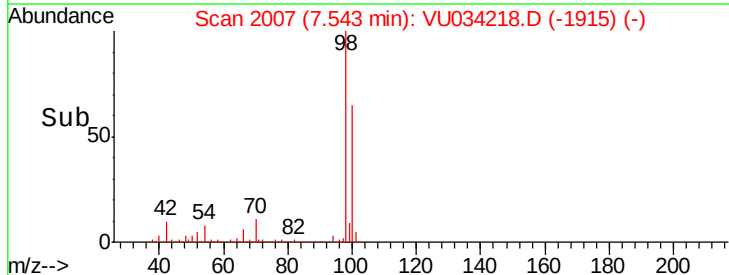
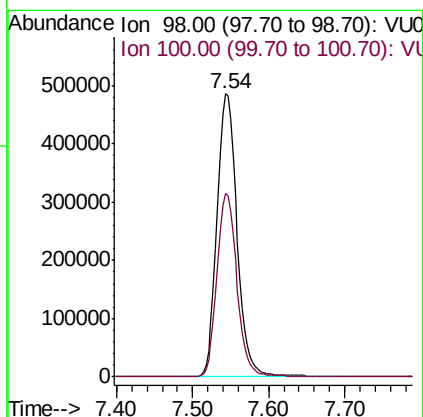
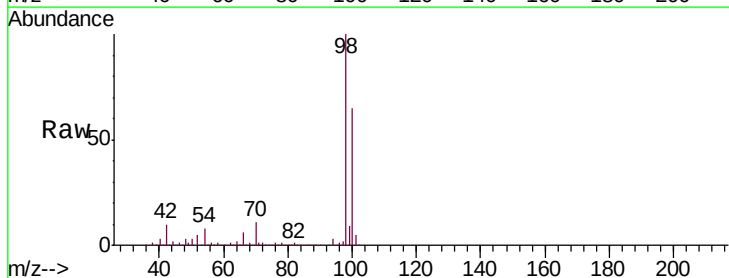
Instrument :
MSVOA_U
ClientSampleId :
T4-S-C-(2.5)

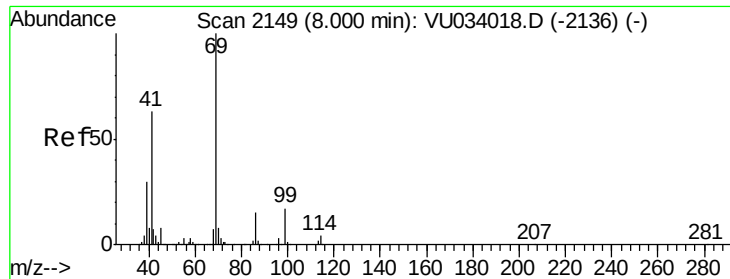
Tgt Ion: 88 Resp: 125
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 107.2 59.3 88.9#



#50
Toluene-d8
Concen: 47.827 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

Tgt Ion: 98 Resp: 891664
Ion Ratio Lower Upper
98 100
100 64.2 50.3 75.5

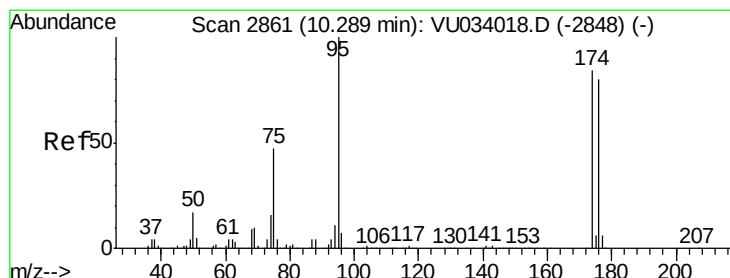
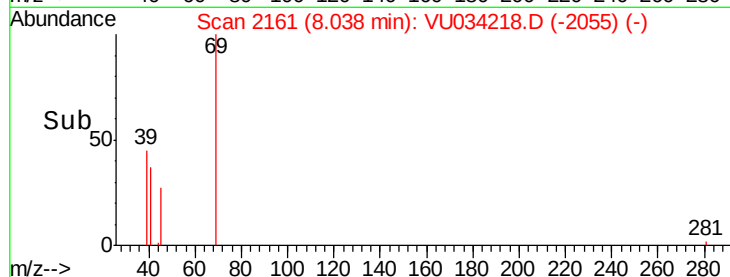
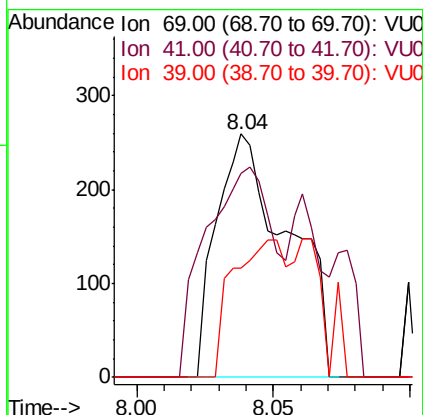
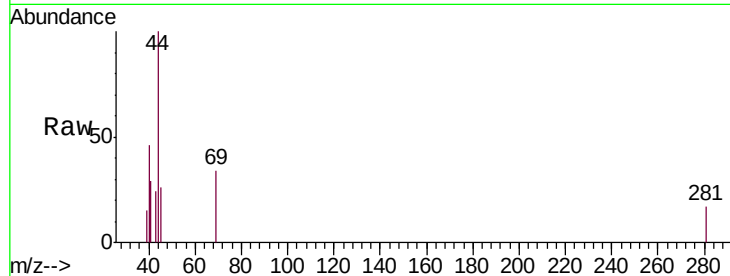




#56
Ethyl methacrylate
Concen: 1.024 ug/l
RT: 8.04 min Scan# 2161
Delta R.T. 0.04 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

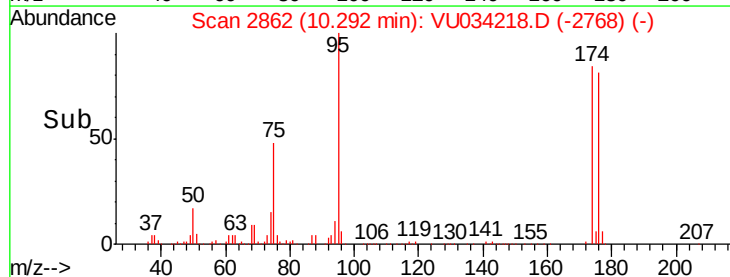
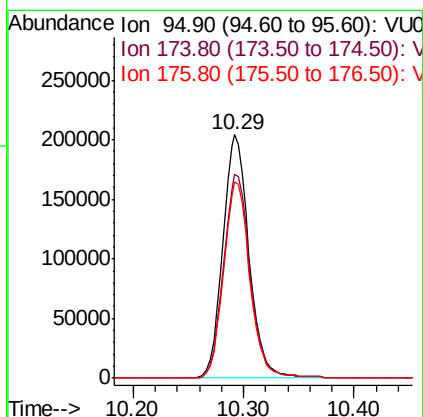
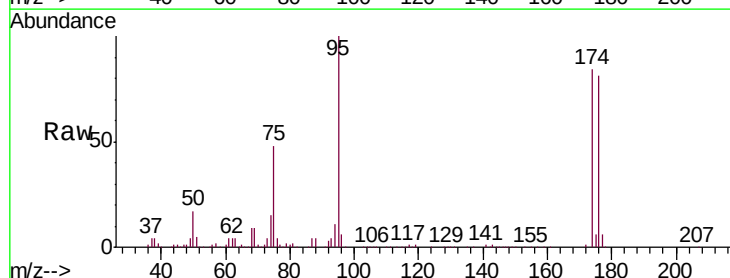
Instrument :
MSVOA_U
ClientSampleId :
T4-S-C-(2.5)

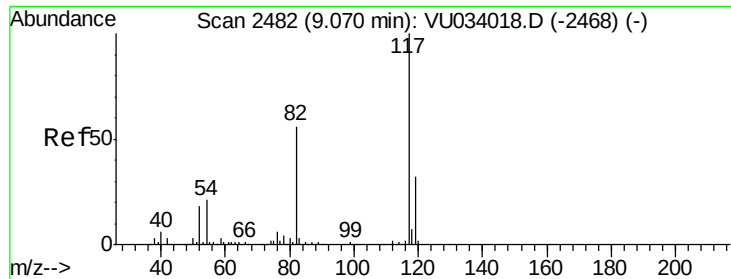
Tgt Ion: 69 Resp: 474
Ion Ratio Lower Upper
69 100
41 82.5 50.7 76.1#
39 40.9 24.2 36.2#



#62
4-Bromofluorobenzene
Concen: 46.306 ug/l
RT: 10.29 min Scan# 2862
Delta R.T. 0.00 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

Tgt Ion: 95 Resp: 335820
Ion Ratio Lower Upper
95 100
174 85.6 0.0 168.8
176 81.3 0.0 161.8

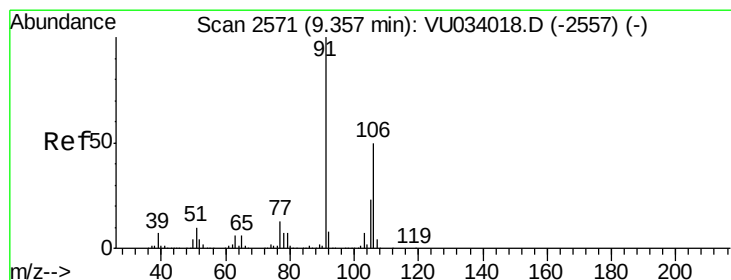
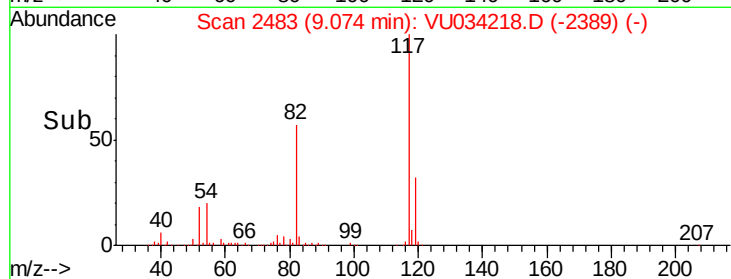
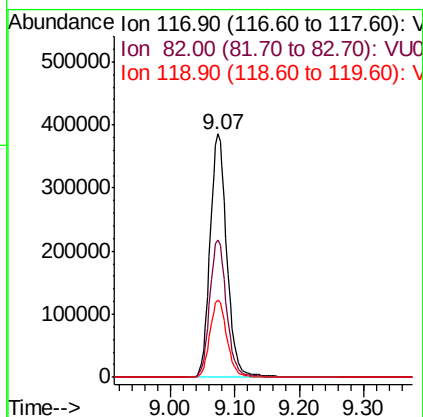
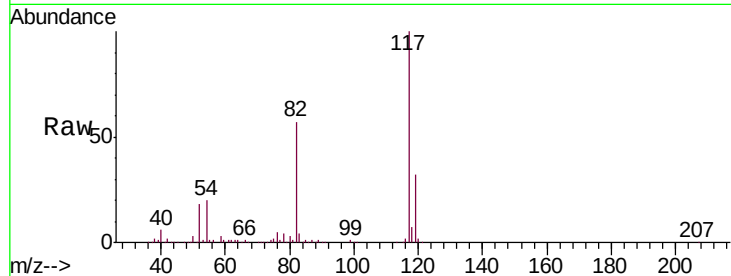




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2483
Delta R.T. 0.00 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

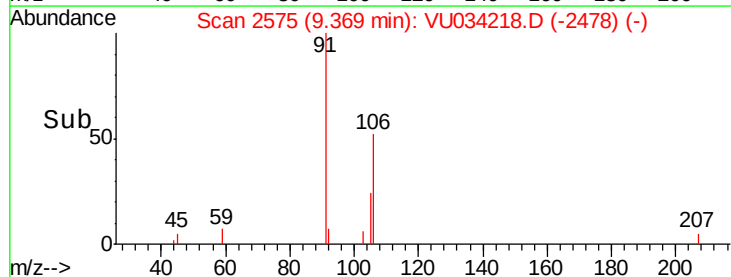
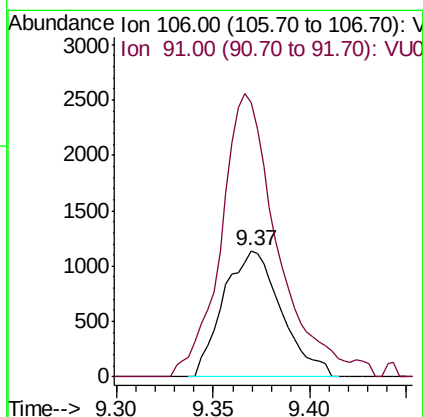
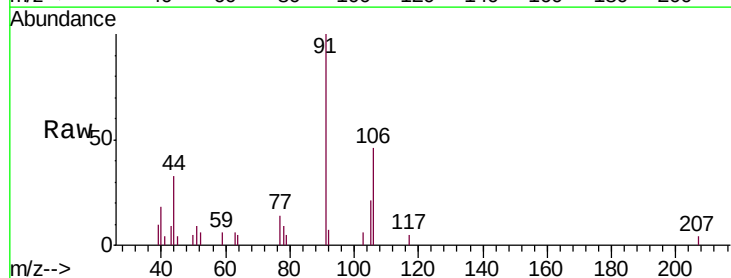
Instrument :
MSVOA_U
ClientSampleId :
T4-S-C-(2.5)

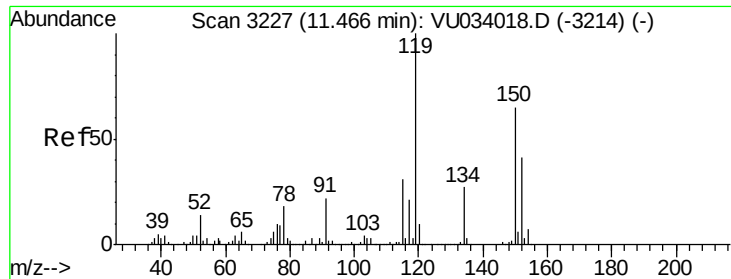
Tgt Ion:117 Resp: 695249
Ion Ratio Lower Upper
117 100
82 56.6 45.1 67.7
119 31.9 25.4 38.0



#68
m/p-Xylenes
Concen: 0.257 ug/l
RT: 9.37 min Scan# 2575
Delta R.T. 0.01 min
Lab File: VU034218.D
Acq: 03 Sep 2019 11:32

Tgt Ion:106 Resp: 2373
Ion Ratio Lower Upper
106 100
91 217.8 161.6 242.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

T4-S-C-(2.5)

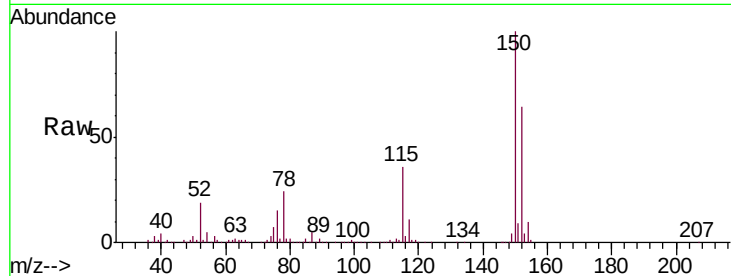
Tgt Ion:152 Resp: 356030

Ion Ratio Lower Upper

152 100

115 56.4 41.1 123.3

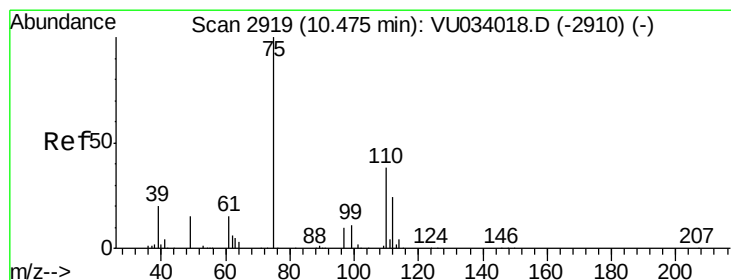
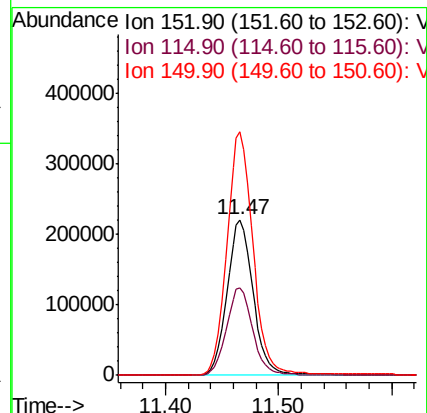
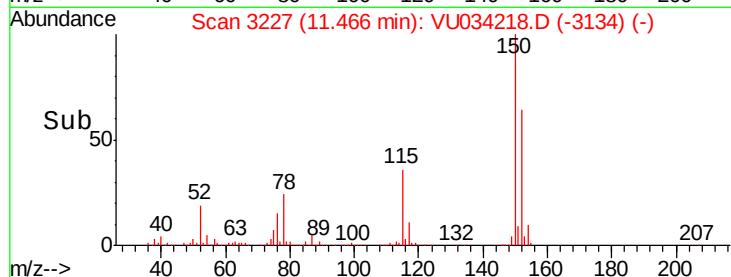
150 156.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.024 ug/l

RT: 10.29 min Scan# 2862

Delta R.T. -0.18 min

Lab File: VU034218.D

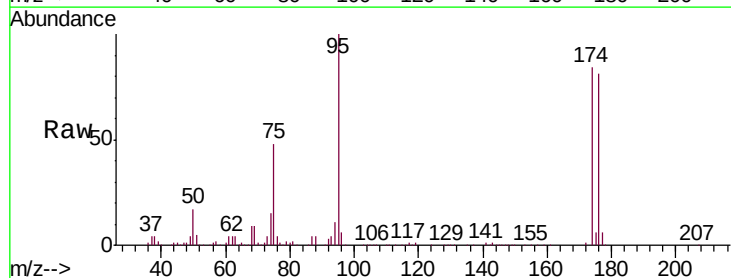
Acq: 03 Sep 2019 11:32

Tgt Ion: 75 Resp: 160677

Ion Ratio Lower Upper

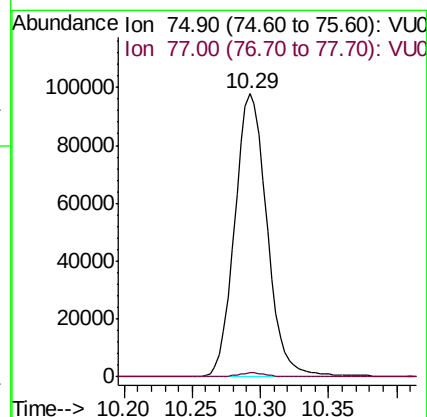
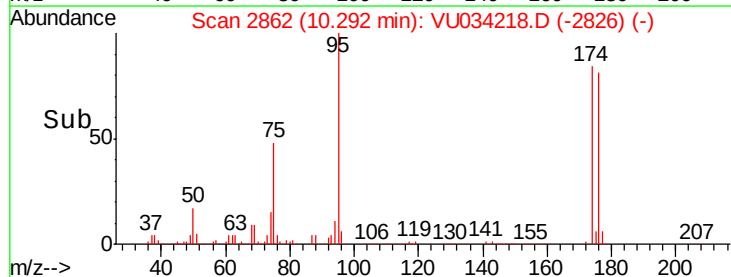
75 100

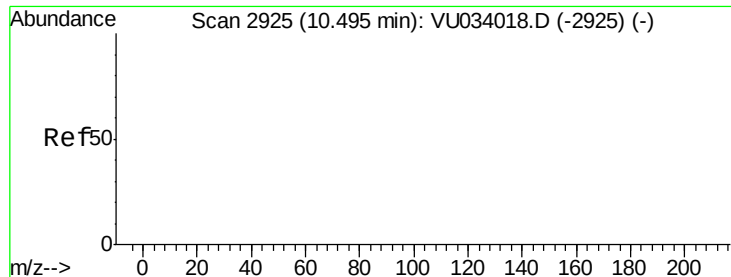
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.425 ug/l

RT: 10.29 min Scan# 2862

Delta R.T. -0.20 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

T4-S-C-(2.5)

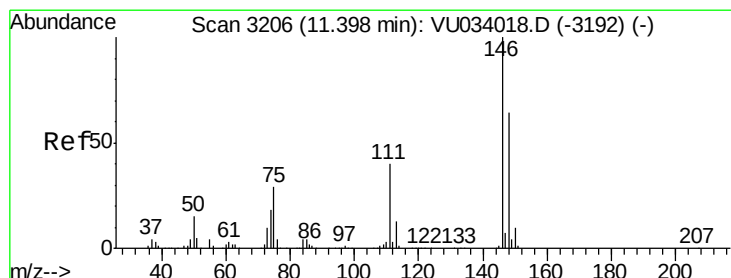
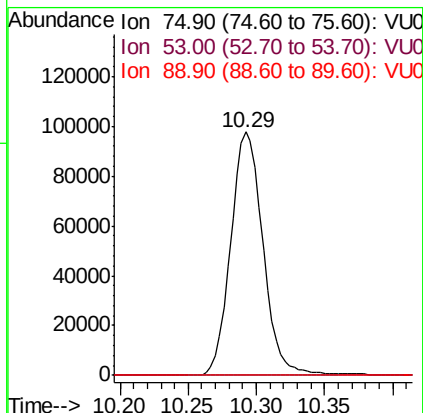
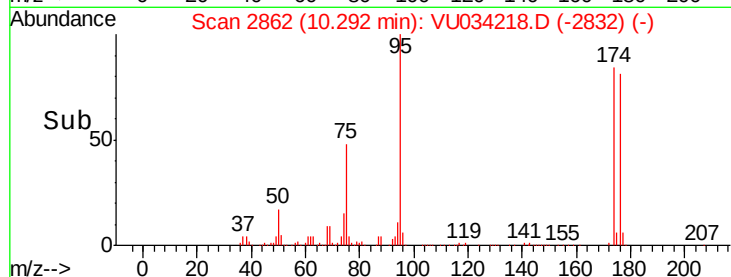
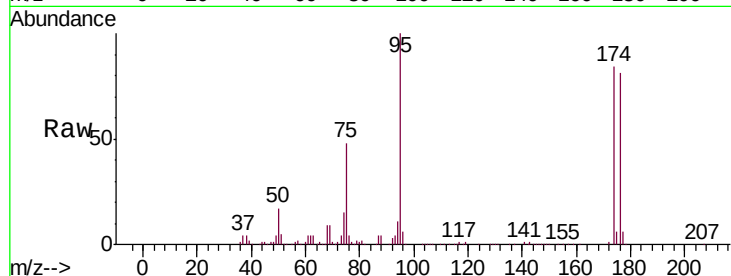
Tgt Ion: 75 Resp: 160677

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



#87

1,3-Dichlorobenzene

Concen: 0.218 ug/l

RT: 11.41 min Scan# 3210

Delta R.T. 0.01 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

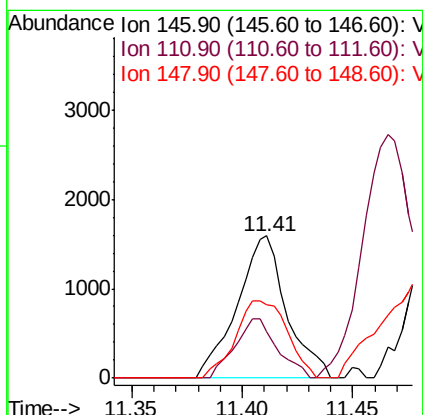
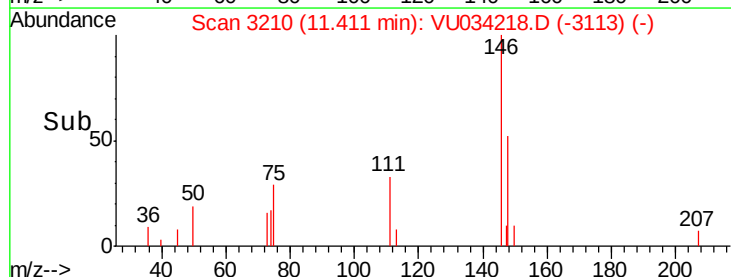
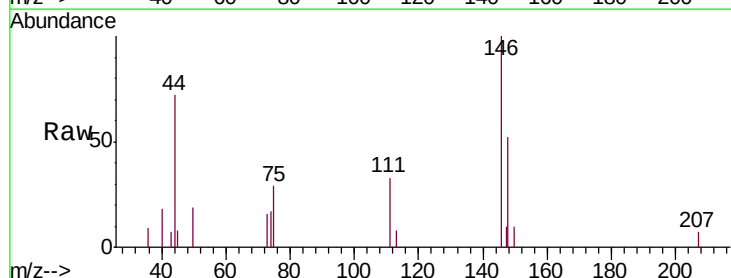
Tgt Ion: 146 Resp: 2480

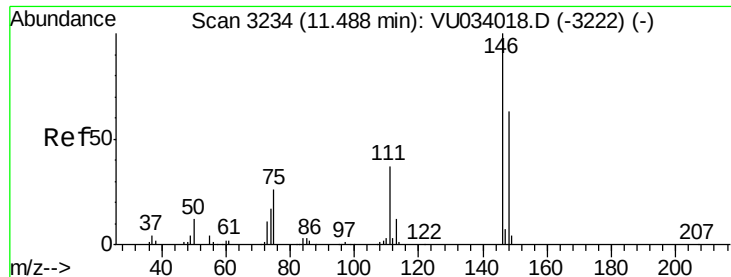
Ion Ratio Lower Upper

146 100

111 35.7 19.9 59.6

148 56.5 31.9 95.5

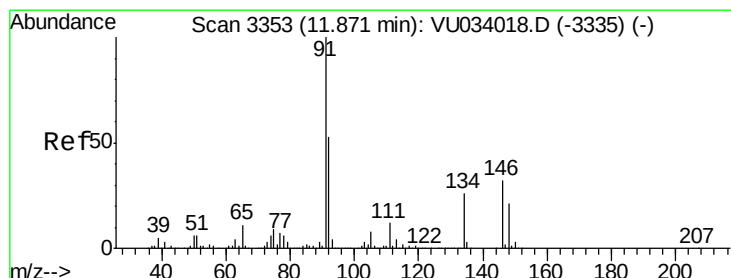
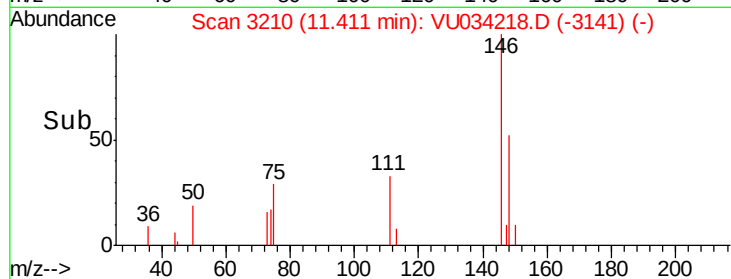
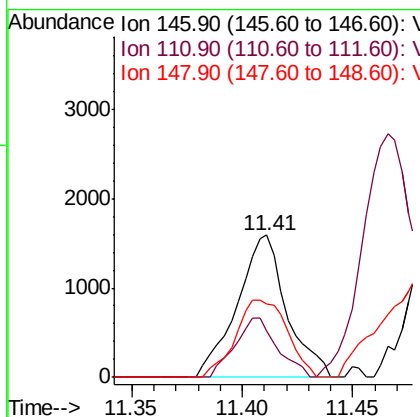
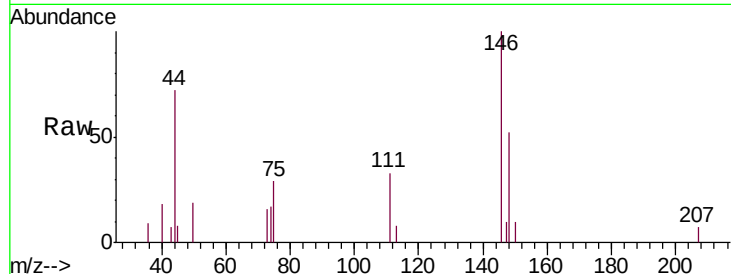




#88
 1,4-Dichlorobenzene
 Concen: 0.215 ug/l
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.08 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

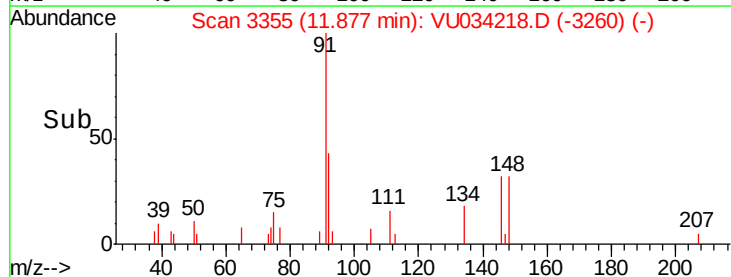
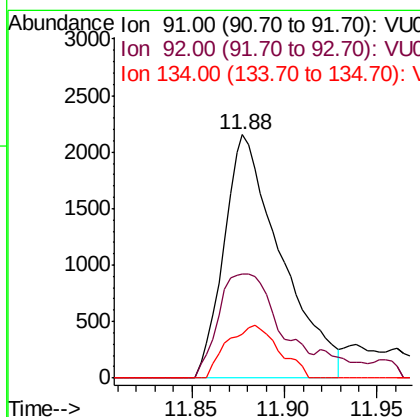
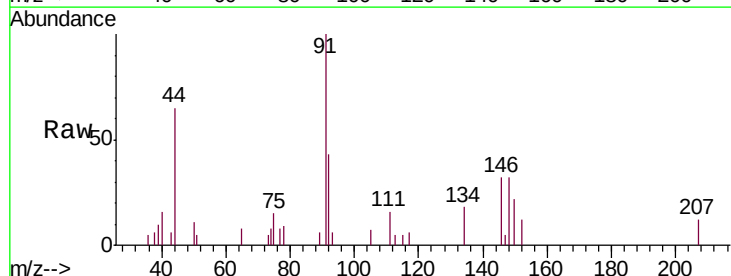
Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-C(2.5)

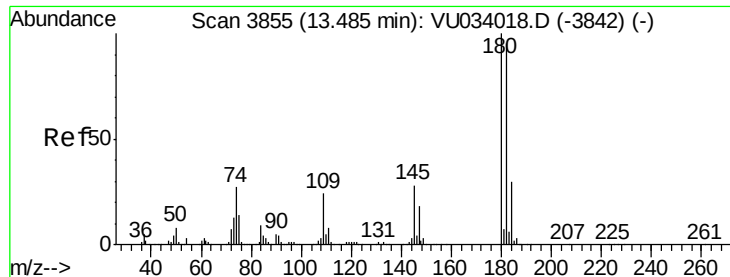
Tgt Ion: 146 Resp: 2480
 Ion Ratio Lower Upper
 146 100
 111 35.7 19.2 57.6
 148 56.5 31.9 95.9



#89
 n-Butylbenzene
 Concen: 0.241 ug/l
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.01 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

Tgt Ion: 91 Resp: 4596
 Ion Ratio Lower Upper
 91 100
 92 45.7 26.3 78.9
 134 19.7 12.9 38.7

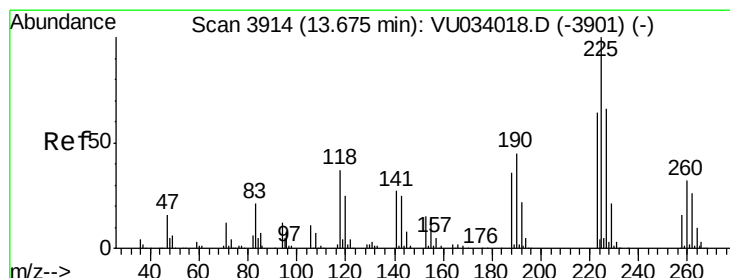
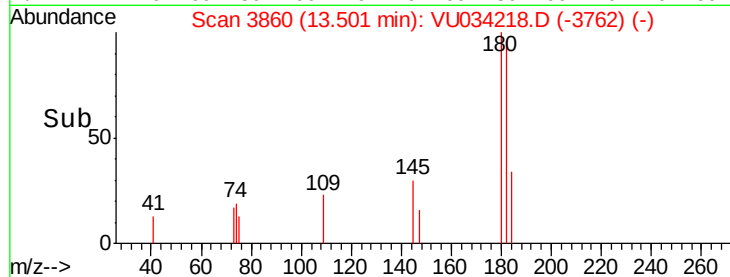
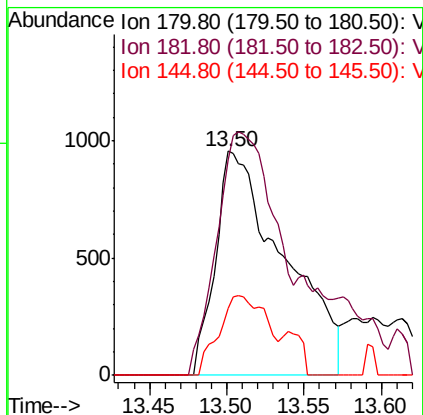
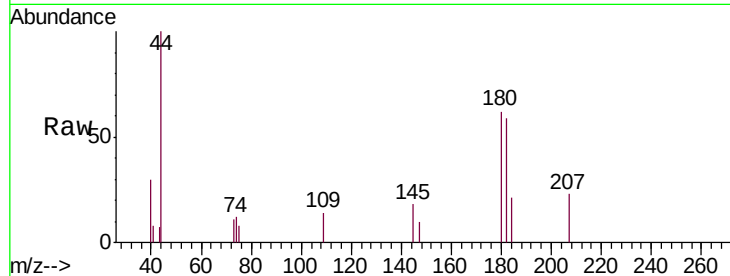




#93
 1,2,4-Trichlorobenzene
 Concen: 1.484 ug/l
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.02 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

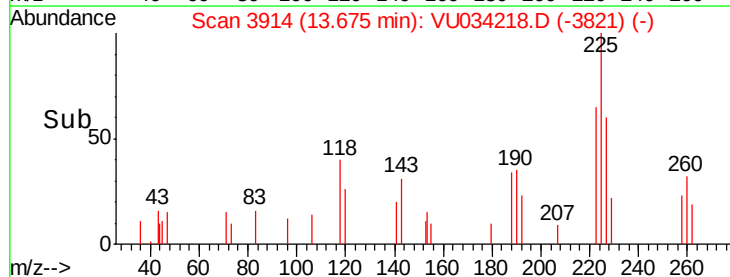
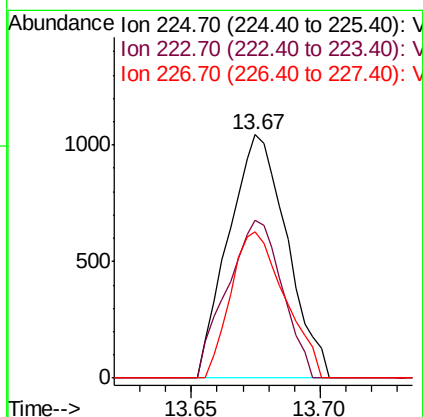
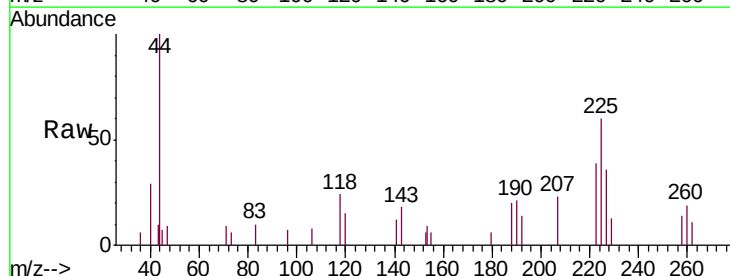
Instrument :
 MSVOA_U
 ClientSampleId :
 T4-S-C(2.5)

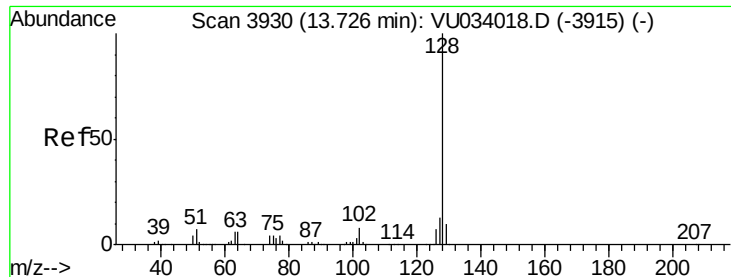
Tgt Ion:180 Resp: 2935
 Ion Ratio Lower Upper
 180 100
 182 92.3 47.4 142.2
 145 24.8 14.1 42.3



#94
 Hexachlorobutadiene
 Concen: 0.387 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034218.D
 Acq: 03 Sep 2019 11:32

Tgt Ion:225 Resp: 1650
 Ion Ratio Lower Upper
 225 100
 223 61.0 31.8 95.3
 227 55.6 32.6 97.8





#95

Naphthalene

Concen: 2.472 ug/l

RT: 13.74 min Scan# 3935

Delta R.T. 0.02 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

T4-S-C-(2.5)

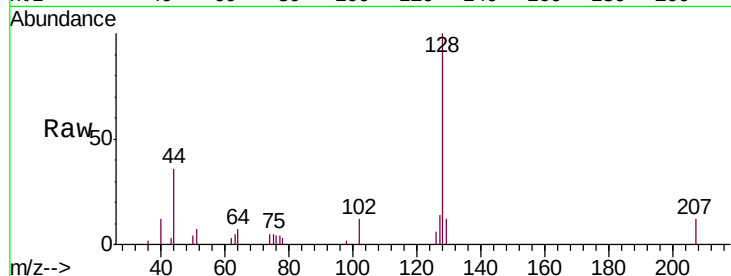
Tgt Ion:128 Resp: 15729

Ion Ratio Lower Upper

128 100

127 10.8 10.2 15.4

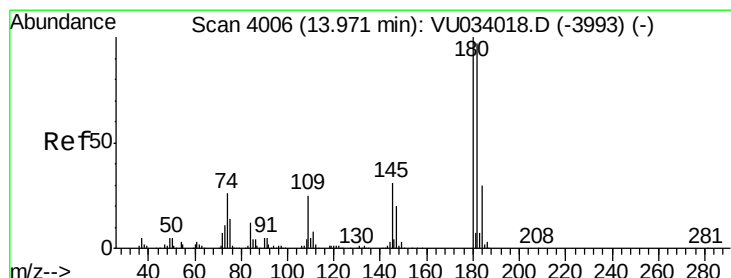
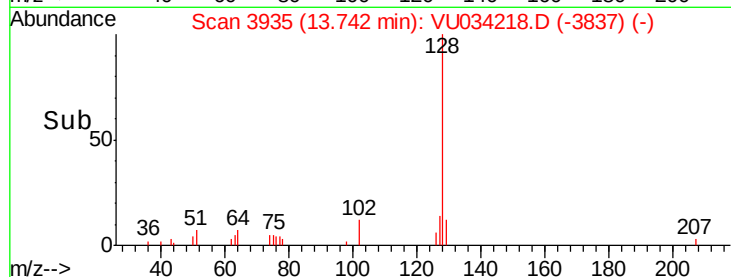
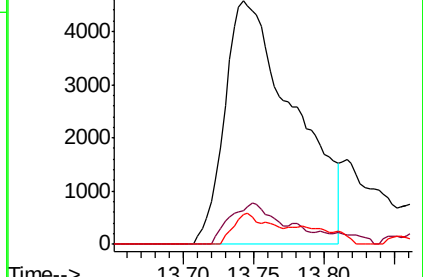
129 6.8 8.4 12.6#



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: 0.573 ug/l

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU034218.D

Acq: 03 Sep 2019 11:32

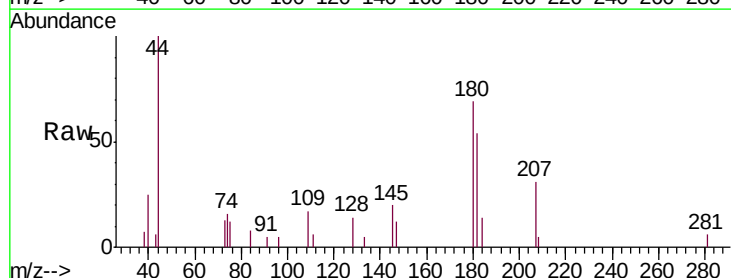
Tgt Ion:180 Resp: 4002

Ion Ratio Lower Upper

180 100

182 97.9 48.2 144.6

145 22.0 15.5 46.5



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

