

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034253.D
 Acq On : 04 Sep 2019 13:24
 Operator : JC/SP
 Sample : K4546-40
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B4-(2.5)

Quant Time: Sep 05 03:38:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	425964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	677395	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	676496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	326112	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	258638	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
35) Dibromofluoromethane	4.86	113	222759	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	7.55	98	875010	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	10.29	95	307558	44.94	ug/l	0.00
Spiked Amount			Recovery	=	89.88%	

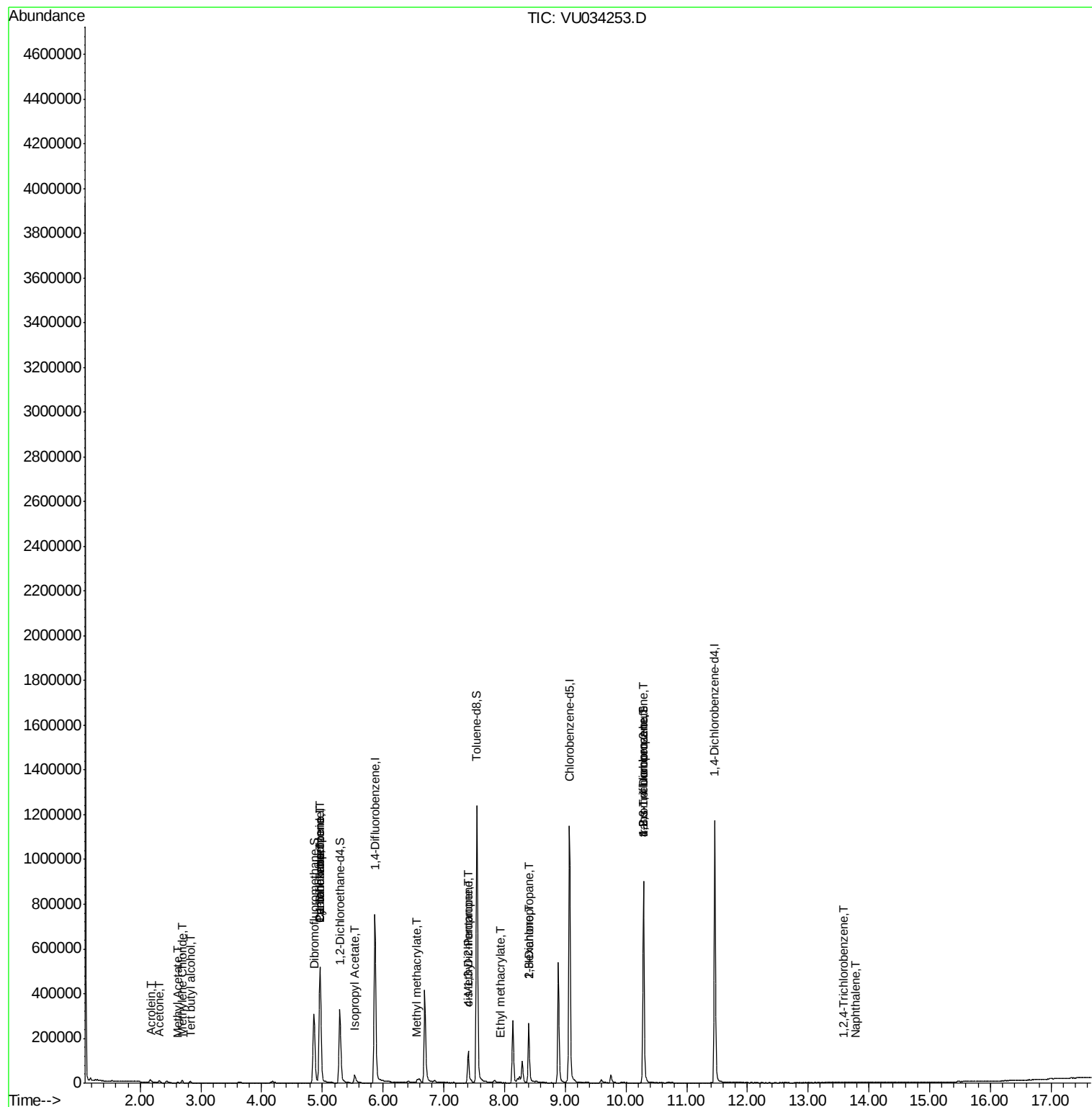
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	487	Below Cal		98
5) Bromomethane	1.63	94	652	Below Cal	#	71
11) Tert butyl alcohol	2.83	59	3340	2.654	ug/l #	73
13) Acrolein	2.18	56	121	0.229	ug/l	96
16) Acetone	2.31	43	11171	4.011	ug/l	94
18) Methyl Acetate	2.62	43	2602	0.362	ug/l	100
20) Methylene Chloride	2.69	84	5262	0.998	ug/l	96
31) Cyclohexane	4.96	56	7579	0.930	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29521	4.607	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39356	6.363	ug/l #	16
43) Isopropyl Acetate	5.53	43	42037	3.851	ug/l	98
48) Methyl methacrylate	6.54	41	2087	0.396	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	49504	6.567	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	27045	3.317	ug/l #	61
56) Ethyl methacrylate	7.95	69	123	0.986	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	2929	0.342	ug/l #	42
59) 2-Hexanone	8.40	43	36721	6.453	ug/l #	57
76) 1,2,3-Trichloropropane	10.29	75	143862	19.573	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	143862	65.907	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.57	180	42	1.120	ug/l #	12
95) Naphthalene	13.79	128	275	1.803	ug/l #	70

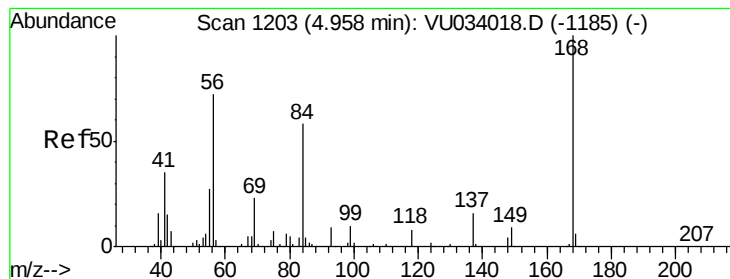
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

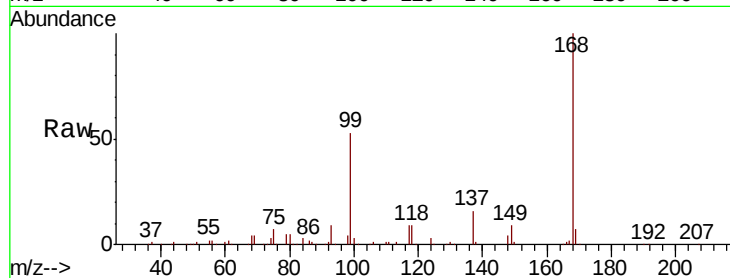
T3-S-B4-(2.5)

Tgt Ion:168 Resp: 425964

Ion Ratio Lower Upper

168 100

99 52.9 42.3 63.5



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

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

4.96

200000

150000

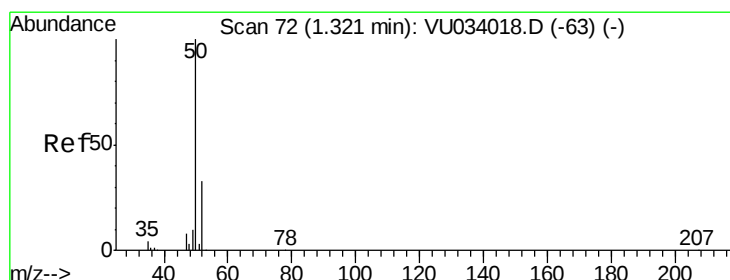
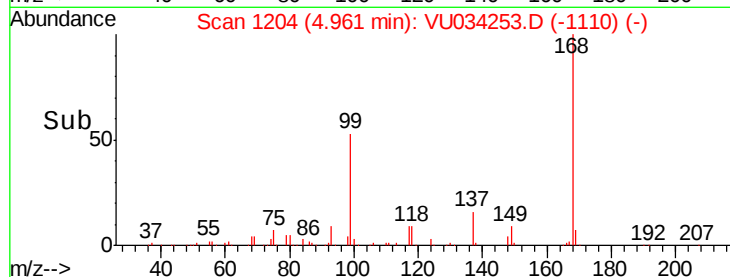
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034253.D

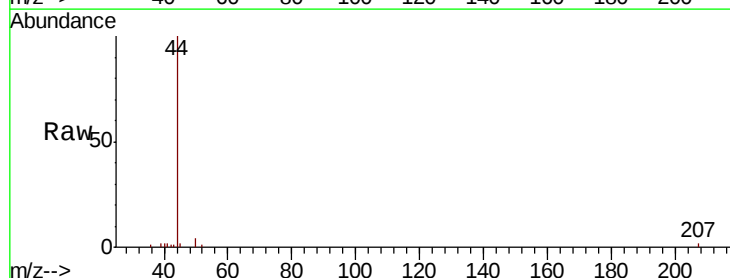
Acq: 04 Sep 2019 13:24

Tgt Ion: 50 Resp: 487

Ion Ratio Lower Upper

50 100

52 31.6 26.2 39.4



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

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

1.33

500

400

300

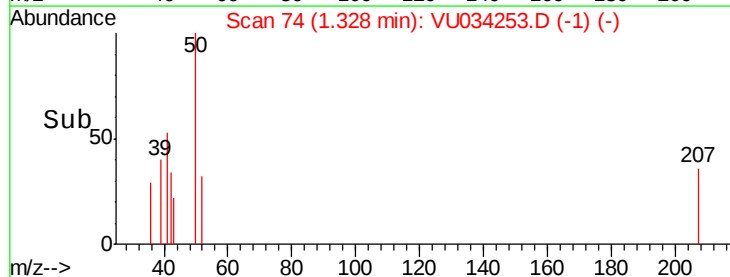
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.03 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

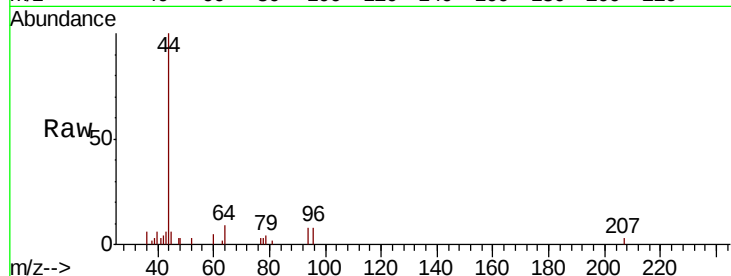
T3-S-B4-(2.5)

Tgt Ion: 94 Resp: 652

Ion Ratio Lower Upper

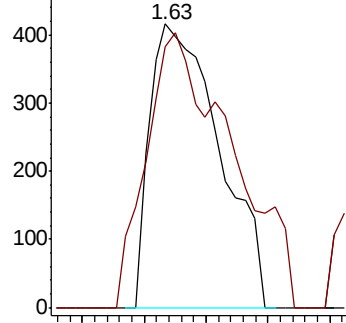
94 100

96 66.8 76.3 114.5#

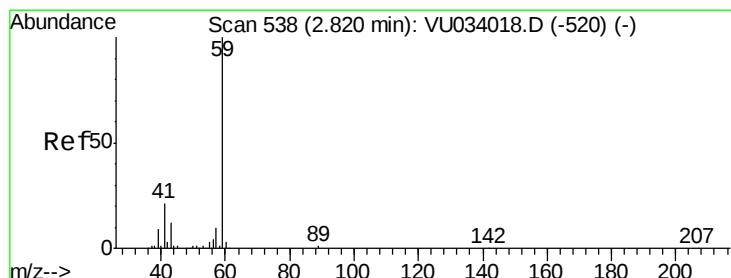
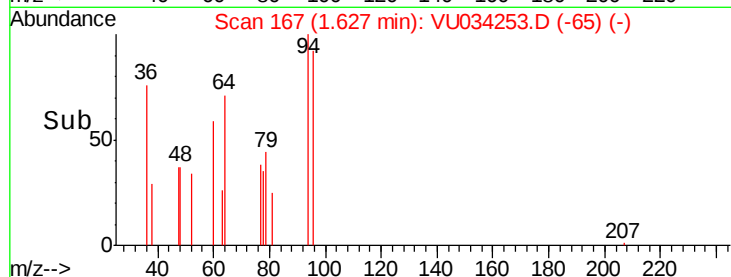


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#11

Tert butyl alcohol

Concen: 2.654 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034253.D

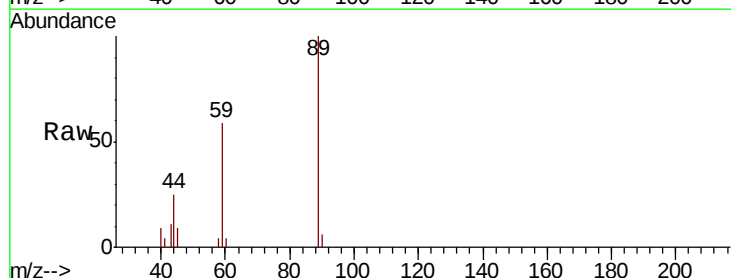
Acq: 04 Sep 2019 13:24

Tgt Ion: 59 Resp: 3340

Ion Ratio Lower Upper

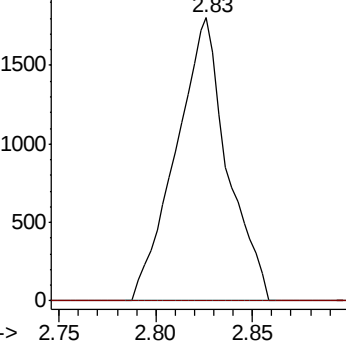
59 100

57 0.0 8.0 12.0#

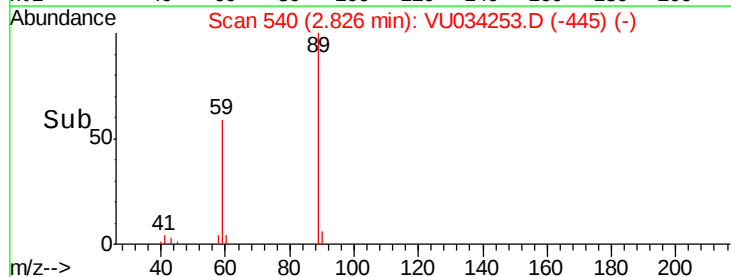


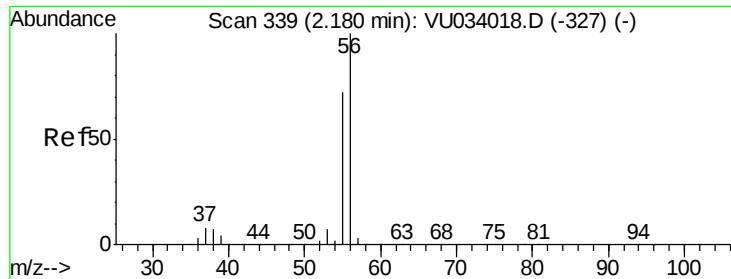
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->





#13

Acrolein

Concen: 0.229 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

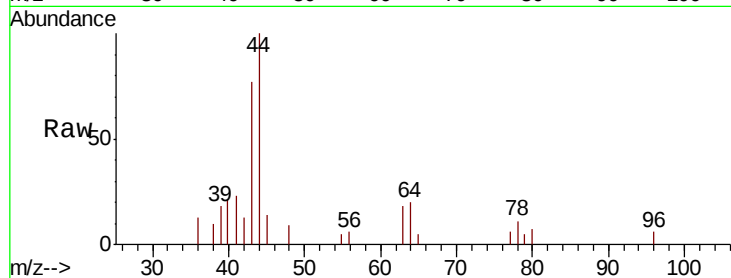
T3-S-B4-(2.5)

Tgt Ion: 56 Resp: 121

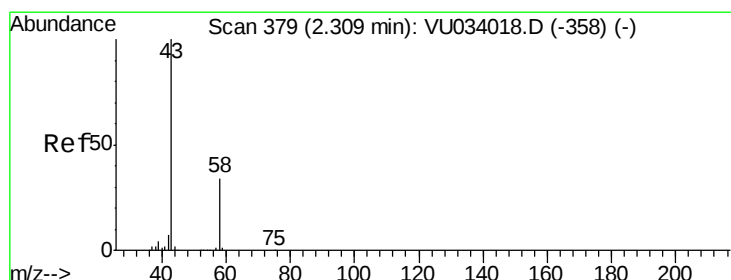
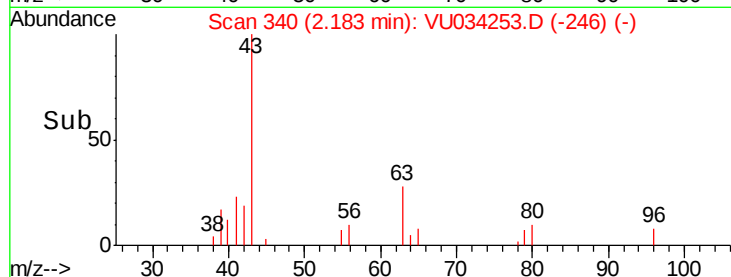
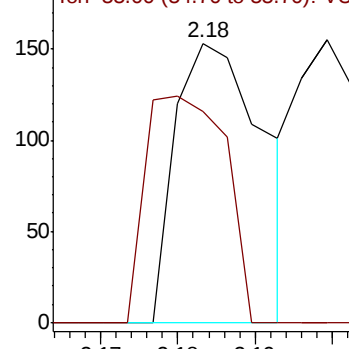
Ion Ratio Lower Upper

56 100

55 74.4 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)



#16

Acetone

Concen: 4.011 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034253.D

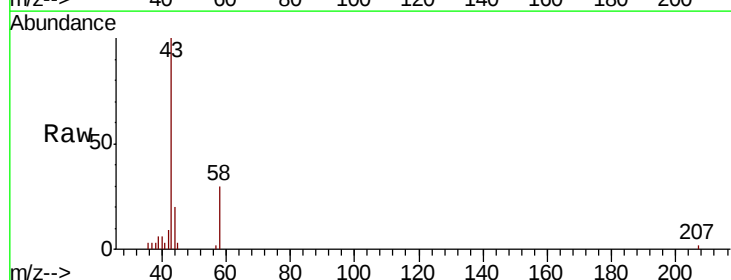
Acq: 04 Sep 2019 13:24

Tgt Ion: 43 Resp: 11171

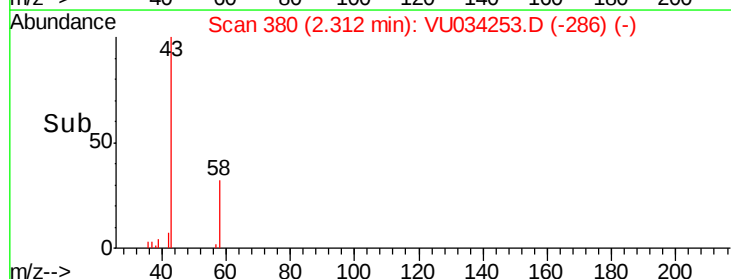
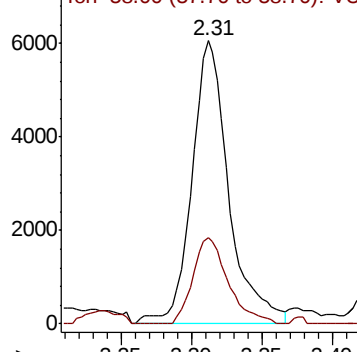
Ion Ratio Lower Upper

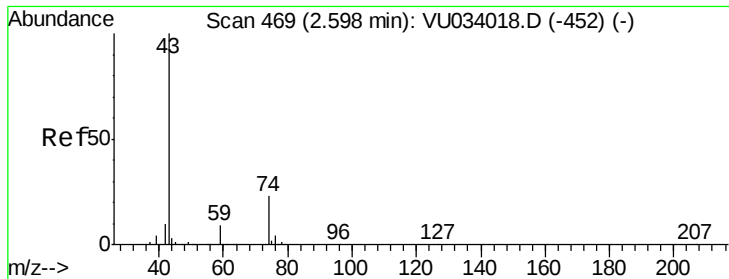
43 100

58 30.3 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

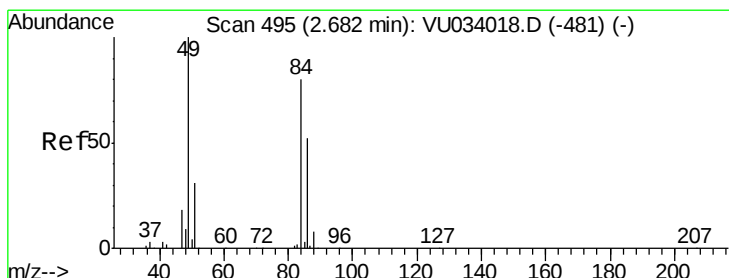
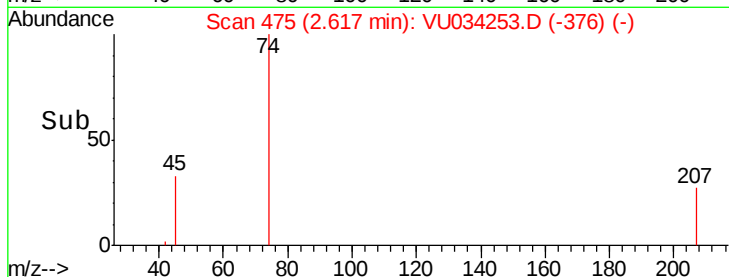
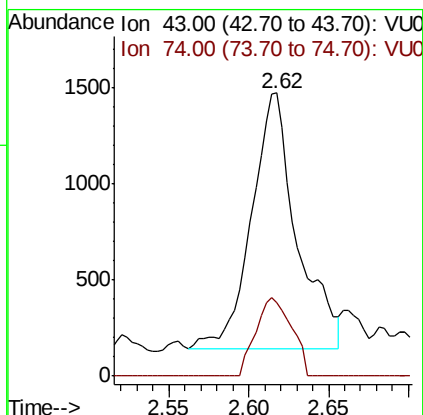
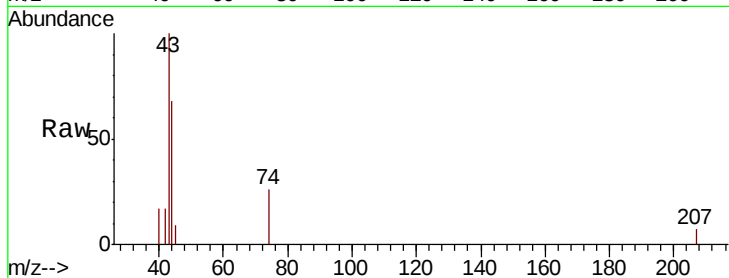




#18
Methyl Acetate
Concen: 0.362 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034253.D
Acq: 04 Sep 2019 13:24

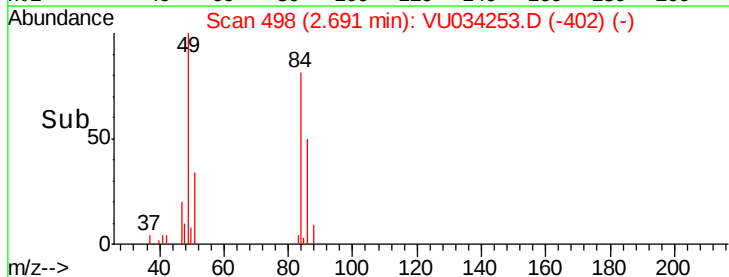
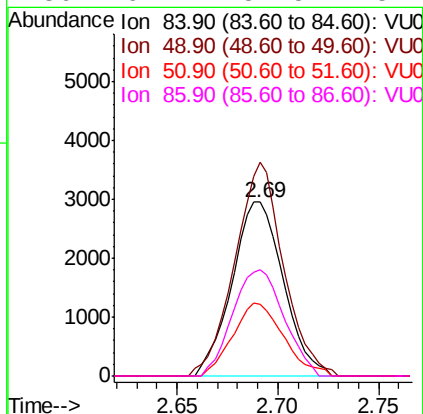
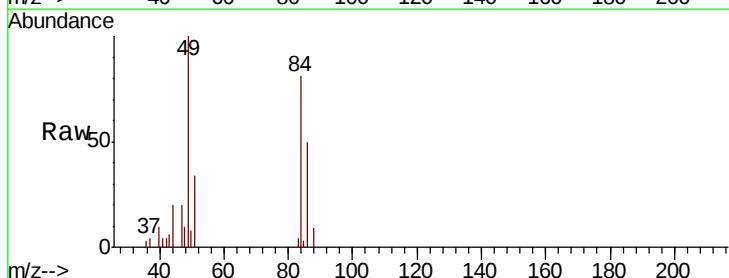
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(2.5)

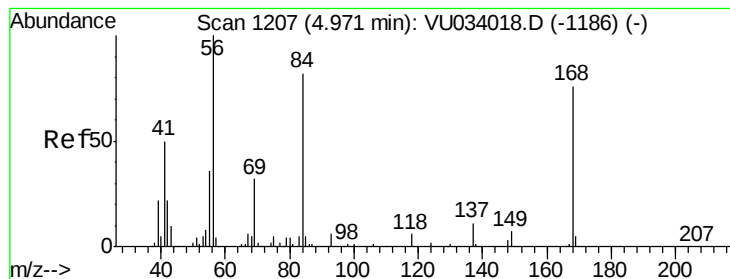
Tgt Ion: 43 Resp: 2602
Ion Ratio Lower Upper
43 100
74 23.9 19.2 28.8



#20
Methylene Chloride
Concen: 0.998 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034253.D
Acq: 04 Sep 2019 13:24

Tgt Ion: 84 Resp: 5262
Ion Ratio Lower Upper
84 100
49 122.8 100.2 150.4
51 41.2 30.8 46.2
86 61.1 52.5 78.7





#31

Cyclohexane

Concen: 0.930 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(2.5)

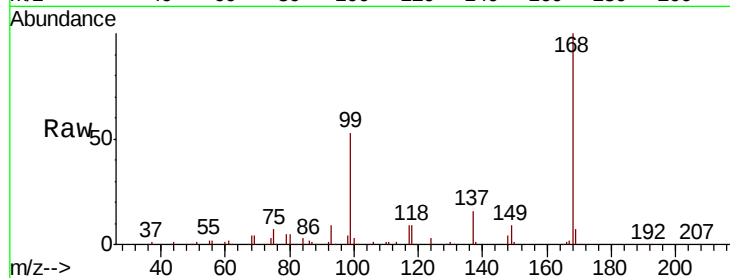
Tgt Ion: 56 Resp: 7579

Ion Ratio Lower Upper

56 100

69 205.1 25.4 38.0#

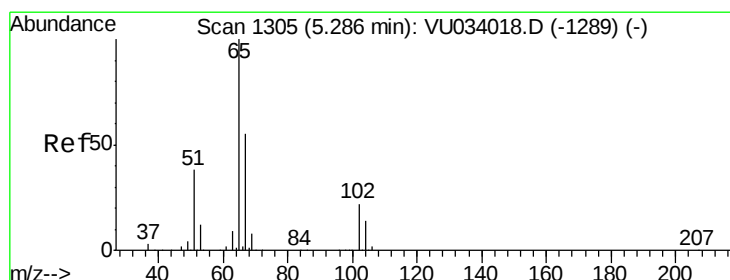
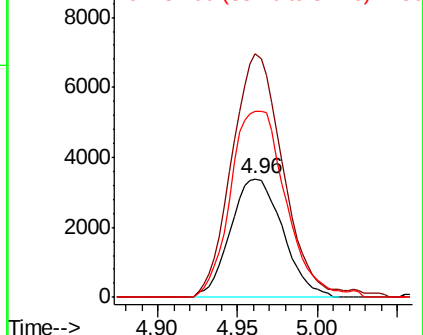
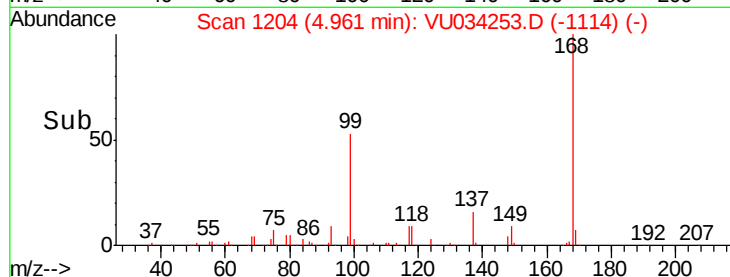
84 156.5 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 47.387 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034253.D

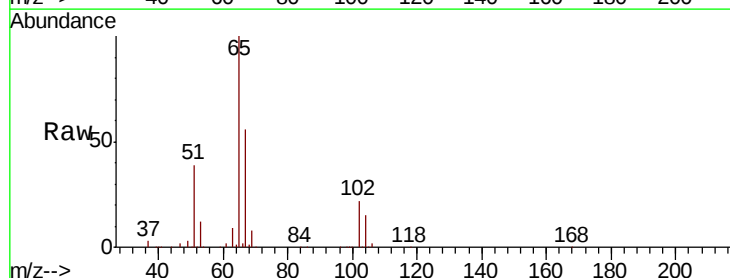
Acq: 04 Sep 2019 13:24

Tgt Ion: 65 Resp: 258638

Ion Ratio Lower Upper

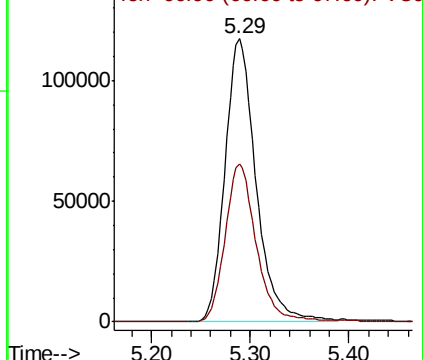
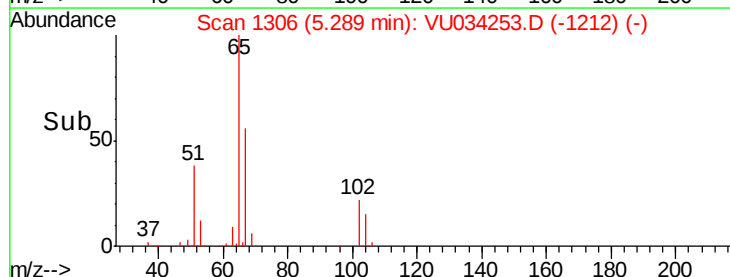
65 100

67 56.0 0.0 110.6



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: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(2.5)

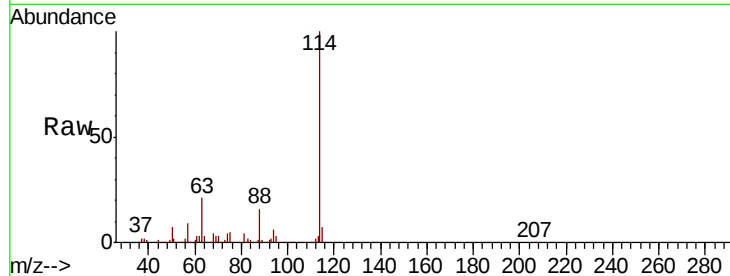
Tgt Ion:114 Resp: 677395

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.0

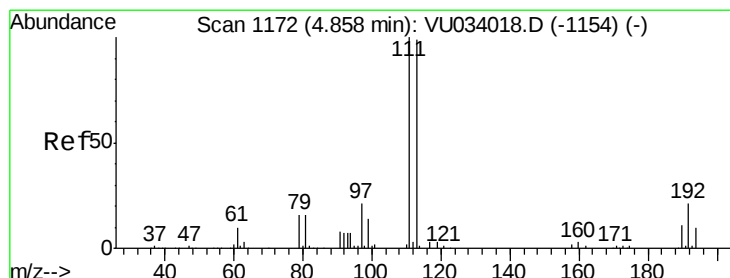
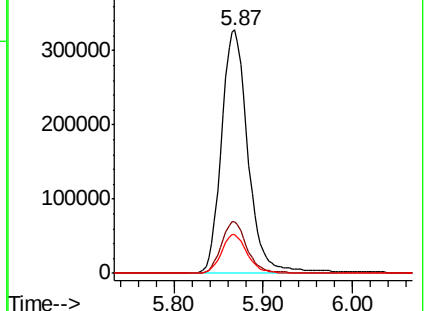
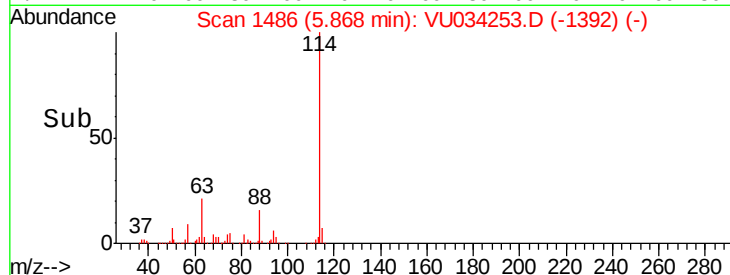
88 15.9 0.0 32.0



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: 47.412 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

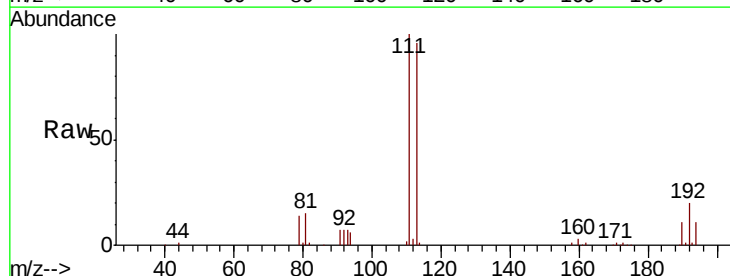
Tgt Ion:113 Resp: 222759

Ion Ratio Lower Upper

113 100

111 102.3 81.7 122.5

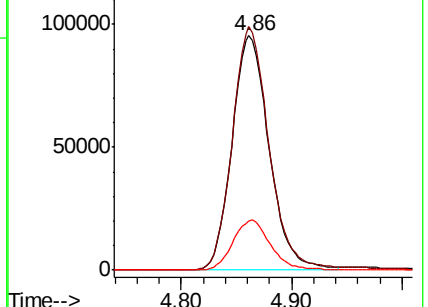
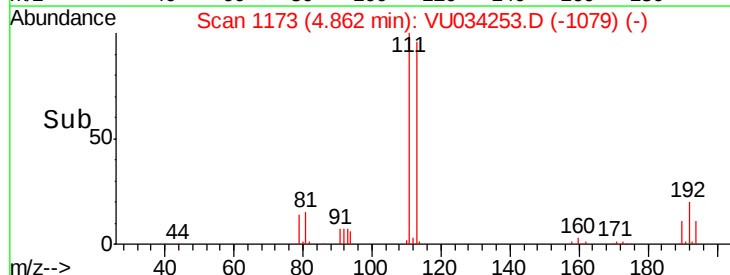
192 21.5 17.1 25.7

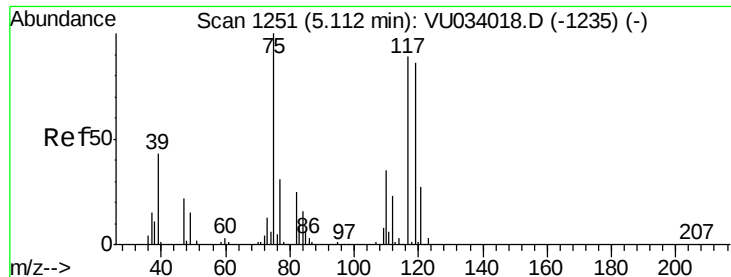


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

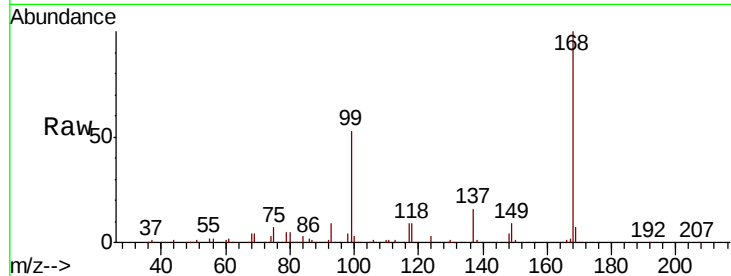




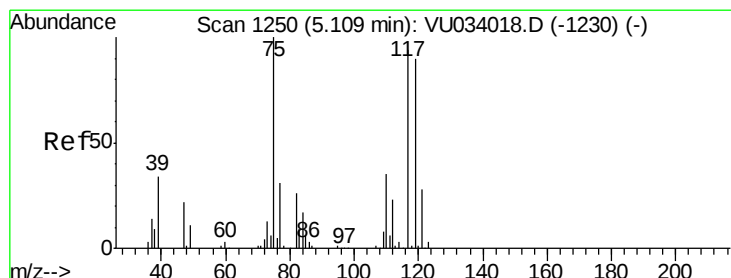
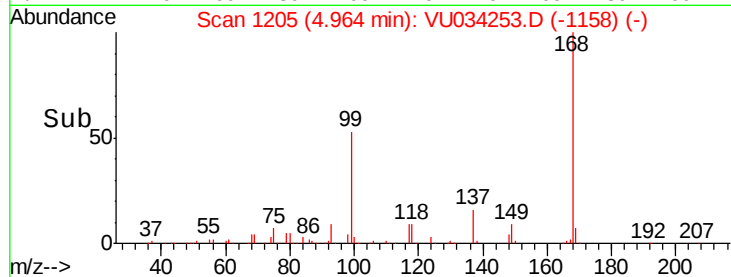
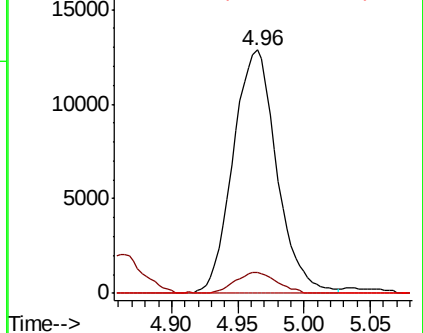
#36
 1,1-Dichloropropene
 Concen: 4.607 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034253.D
 Acq: 04 Sep 2019 13:24

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B4-(2.5)

Tgt Ion: 75 Resp: 29521
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.8 53.5#
 77 0.0 25.0 37.4#

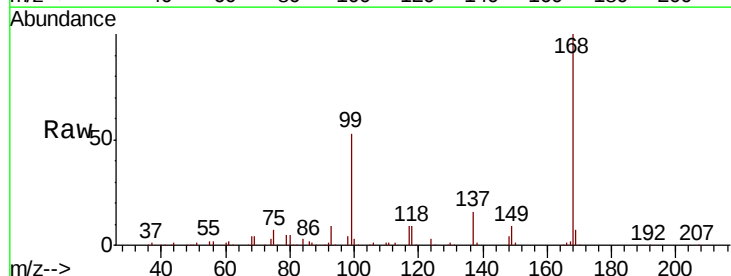


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

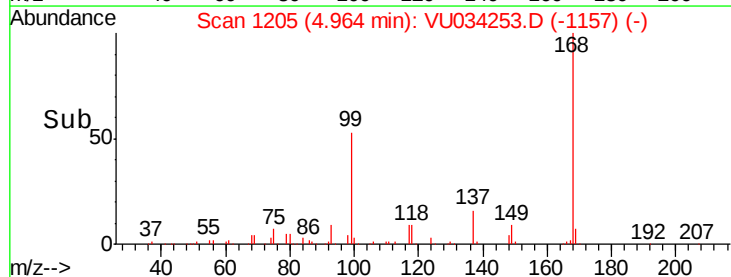
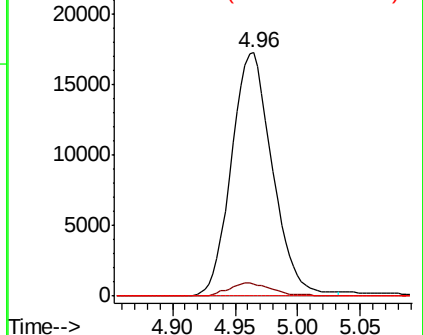


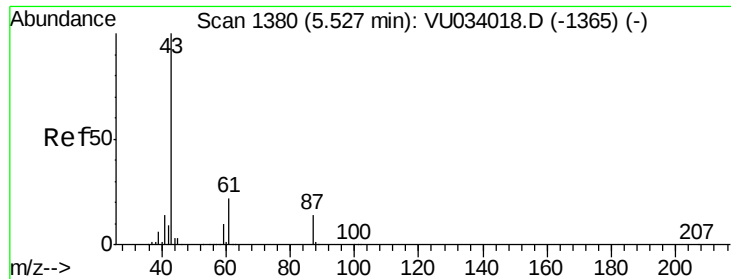
#38
 Carbon Tetrachloride
 Concen: 6.363 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034253.D
 Acq: 04 Sep 2019 13:24

Tgt Ion: 117 Resp: 39356
 Ion Ratio Lower Upper
 117 100
 119 4.9 77.0 115.4#
 121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

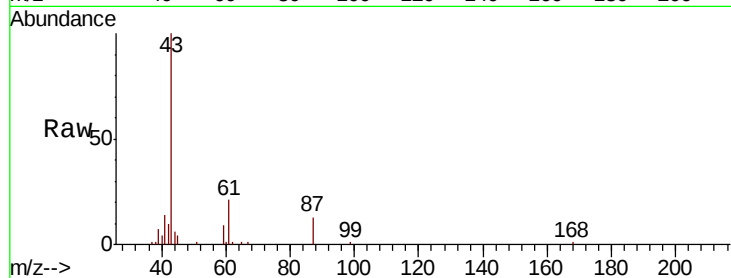




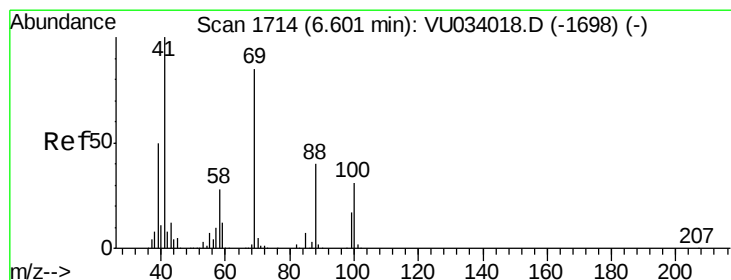
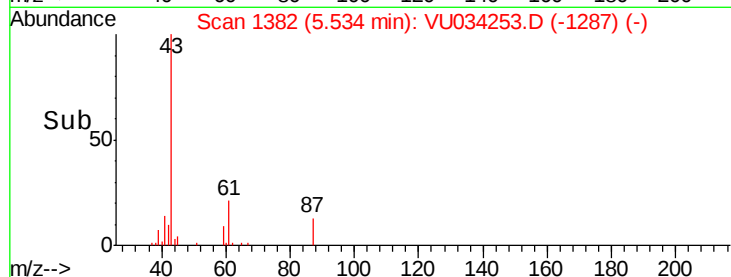
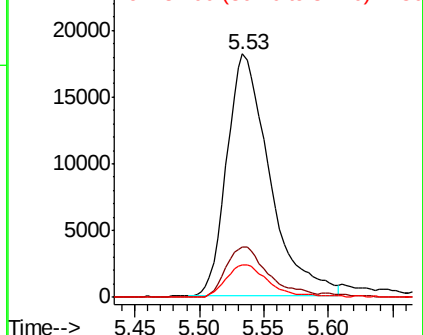
#43
Isopropyl Acetate
Concen: 3.851 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034253.D
Acq: 04 Sep 2019 13:24

Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(2.5)

Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.4	17.2	25.8
87	13.1	10.8	16.2

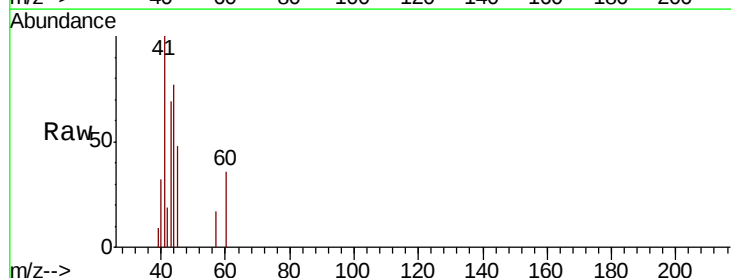


Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1365) (-)

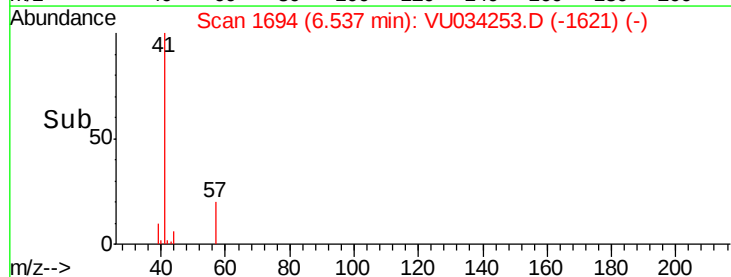
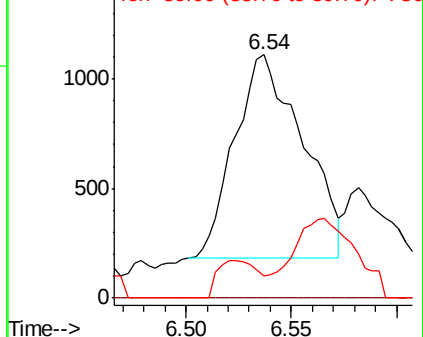


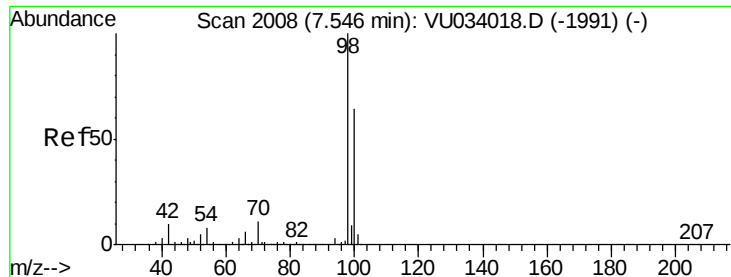
#48
Methyl methacrylate
Concen: 0.396 ug/l
RT: 6.54 min Scan# 1694
Delta R.T. -0.06 min
Lab File: VU034253.D
Acq: 04 Sep 2019 13:24

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	69.5	104.3#
39	0.0	40.3	60.5#



Abundance Ion 41.00 (40.70 to 41.70): VU034018.D (-1698) (-)





#50

Toluene-d8

Concen: 49.738 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

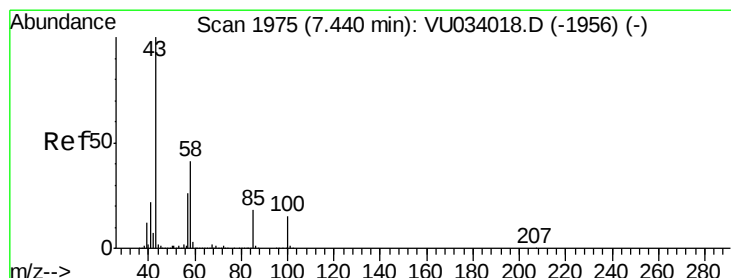
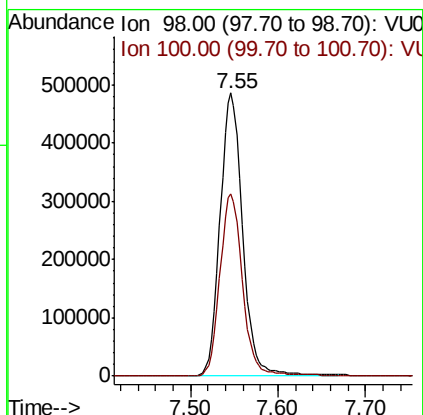
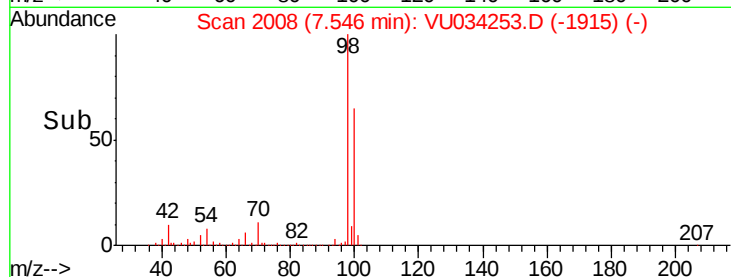
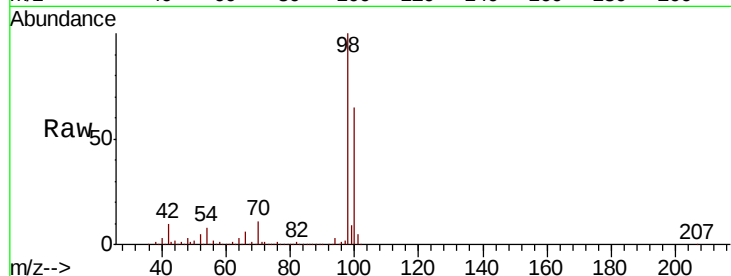
T3-S-B4-(2.5)

Tgt Ion: 98 Resp: 875010

Ion Ratio Lower Upper

98 100

100 64.7 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 6.567 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034253.D

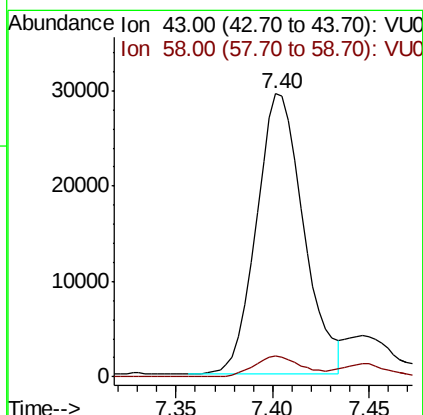
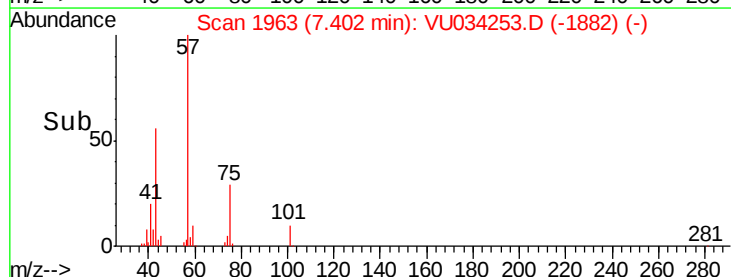
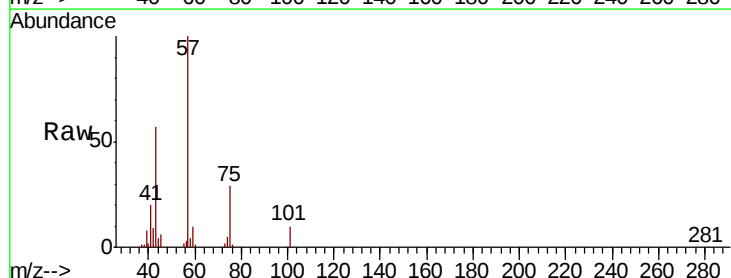
Acq: 04 Sep 2019 13:24

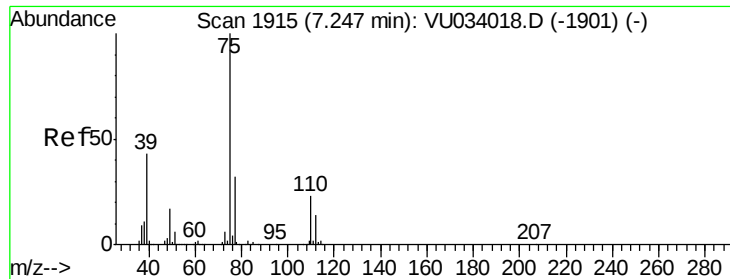
Tgt Ion: 43 Resp: 49504

Ion Ratio Lower Upper

43 100

58 7.6 32.2 48.4#

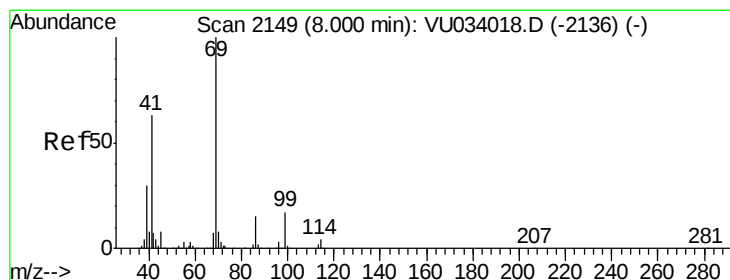
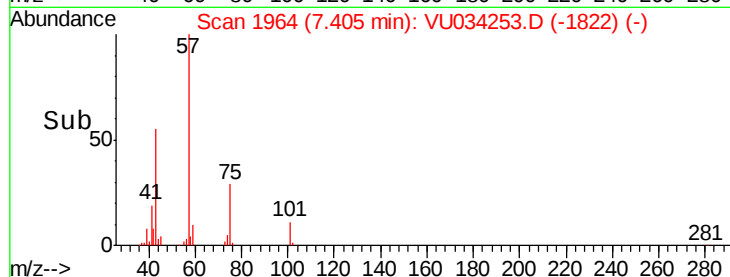
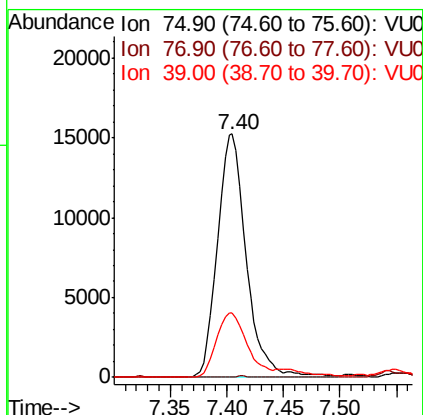
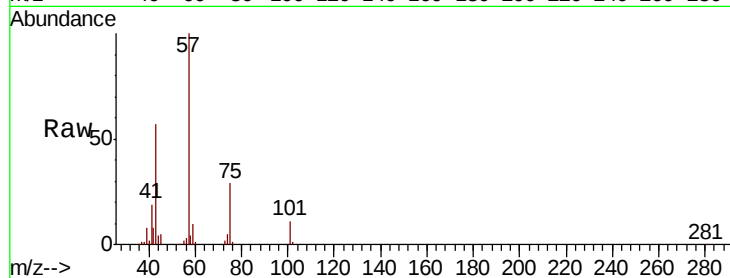




#54
 cis-1,3-Dichloropropene
 Concen: 3.317 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034253.D
 Acq: 04 Sep 2019 13:24

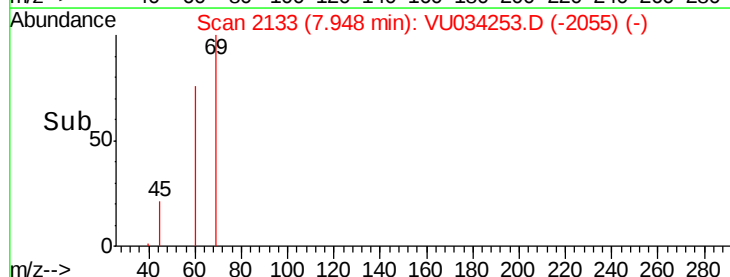
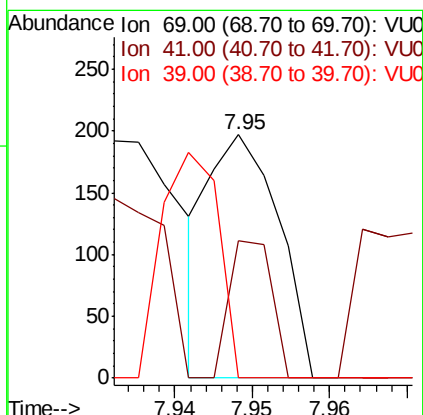
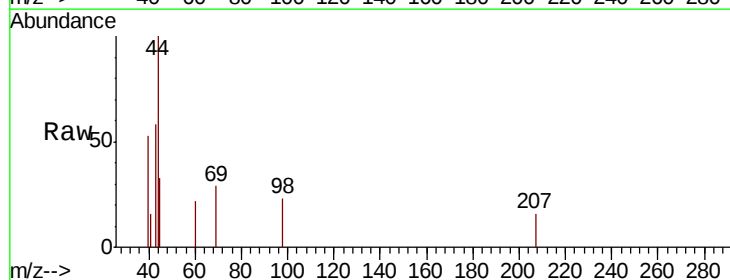
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B4-(2.5)

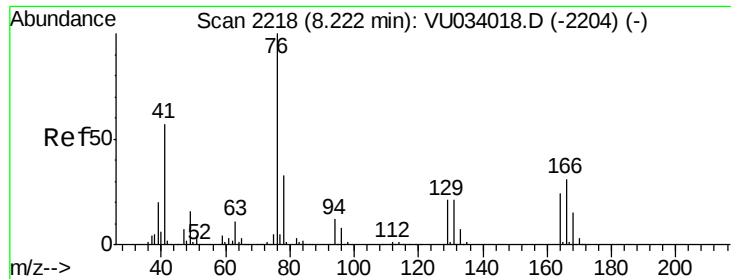
Tgt Ion: 75 Resp: 27045
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 26.3 34.6 51.8#



#56
 Ethyl methacrylate
 Concen: 0.986 ug/l
 RT: 7.95 min Scan# 2133
 Delta R.T. -0.05 min
 Lab File: VU034253.D
 Acq: 04 Sep 2019 13:24

Tgt Ion: 69 Resp: 123
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

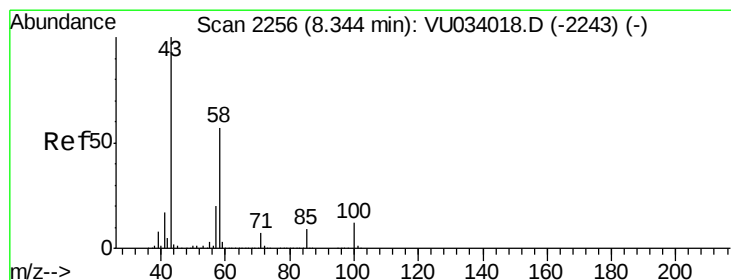
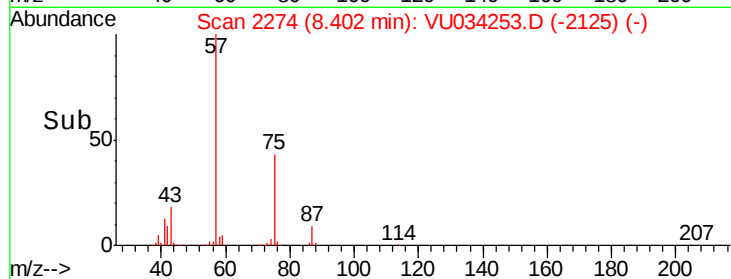
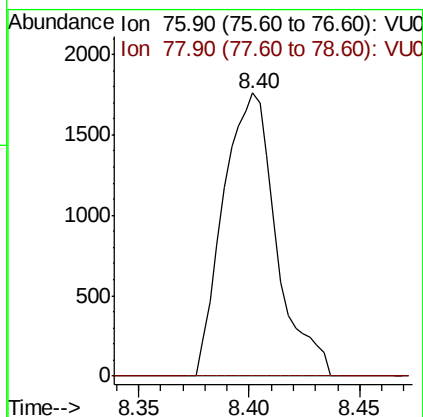
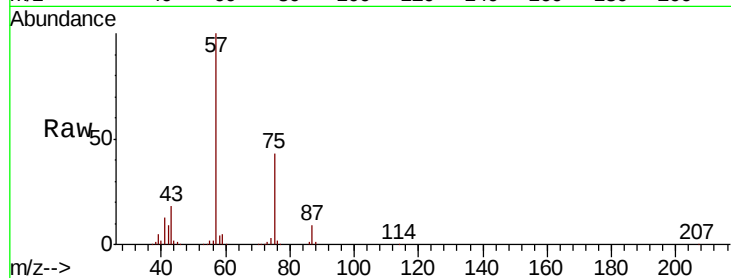




#57
 1,3-Dichloropropane
 Concen: 0.342 ug/l
 RT: 8.40 min Scan# 2274
 Delta R.T. 0.18 min
 Lab File: VU034253.D
 Acq: 04 Sep 2019 13:24

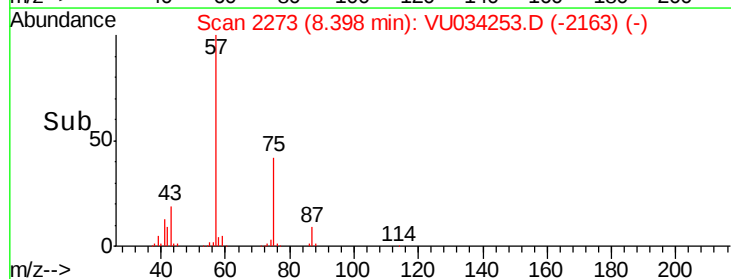
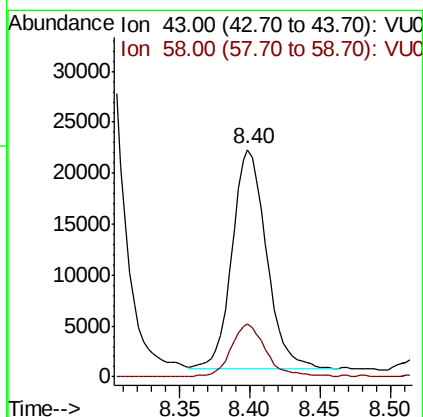
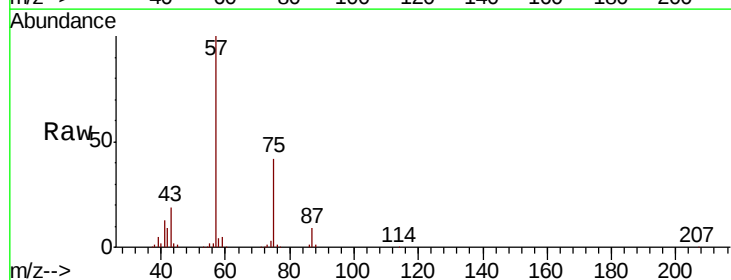
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B4-(2.5)

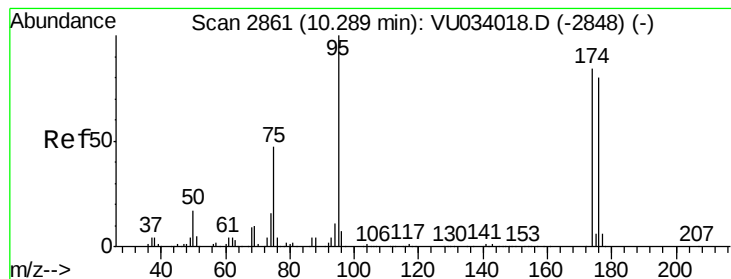
Tgt Ion: 76 Resp: 2929
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 6.453 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034253.D
 Acq: 04 Sep 2019 13:24

Tgt Ion: 43 Resp: 36721
 Ion Ratio Lower Upper
 43 100
 58 25.0 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 44.943 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(2.5)

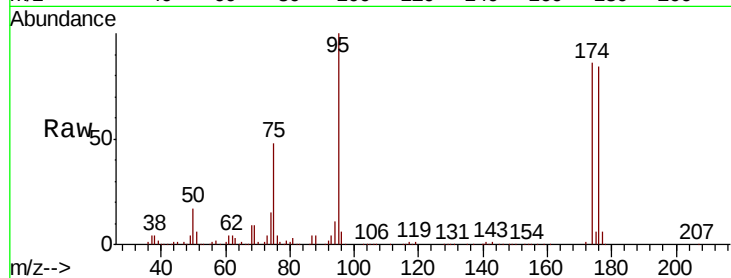
Tgt Ion: 95 Resp: 307558

Ion Ratio Lower Upper

95 100

174 86.1 0.0 168.8

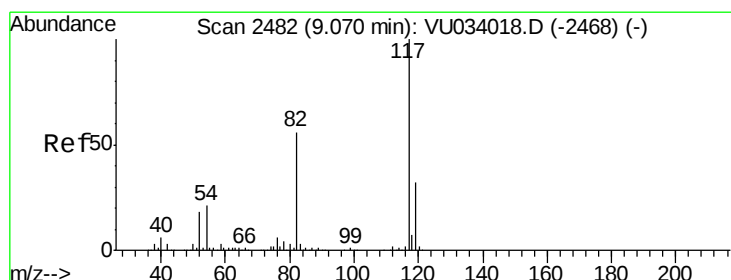
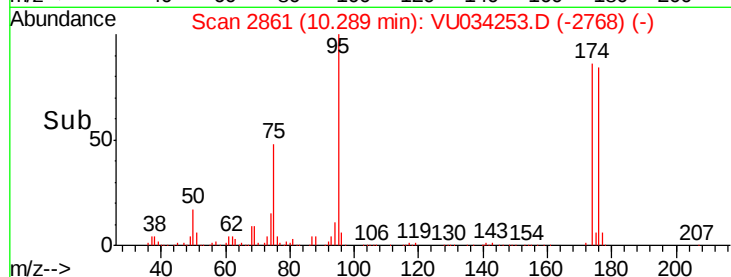
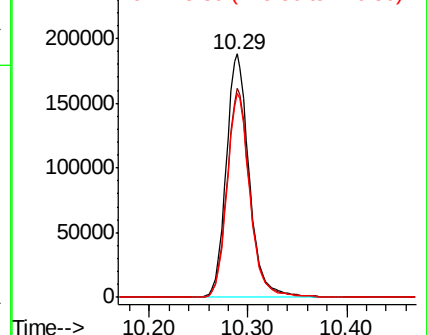
176 83.0 0.0 161.8



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

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

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

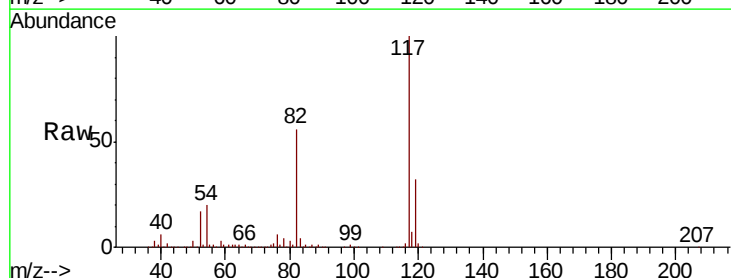
Tgt Ion: 117 Resp: 676496

Ion Ratio Lower Upper

117 100

82 56.4 45.1 67.7

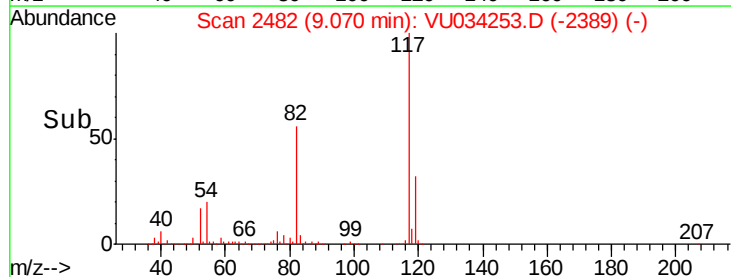
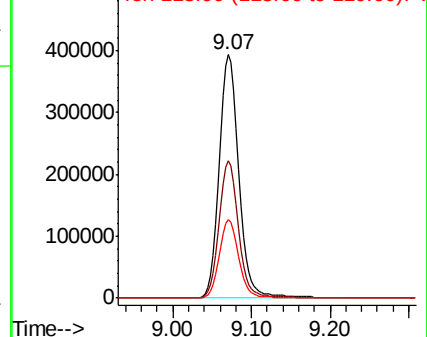
119 32.4 25.4 38.0

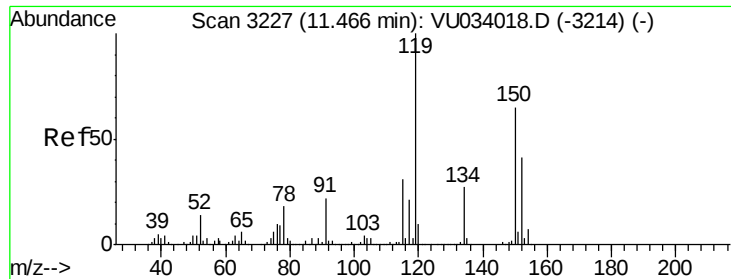


Abundance Ion 116.90 (116.60 to 117.60): VU034018.D (-2468) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(2.5)

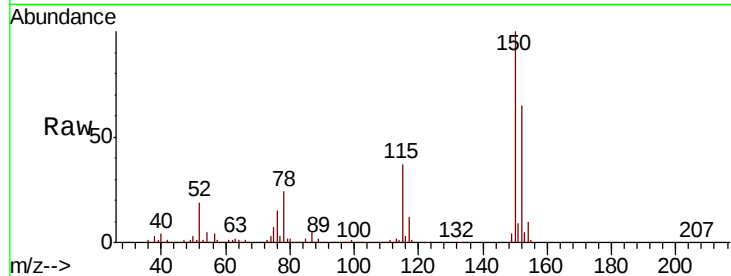
Tgt Ion:152 Resp: 326112

Ion Ratio Lower Upper

152 100

115 57.8 41.1 123.3

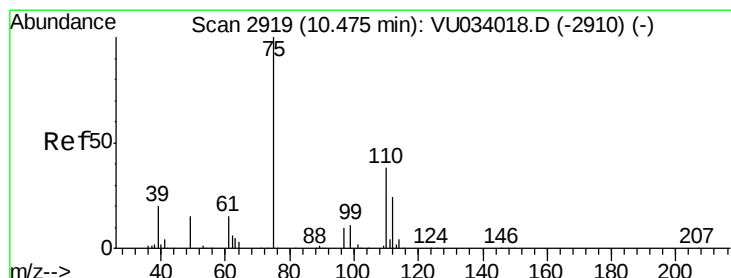
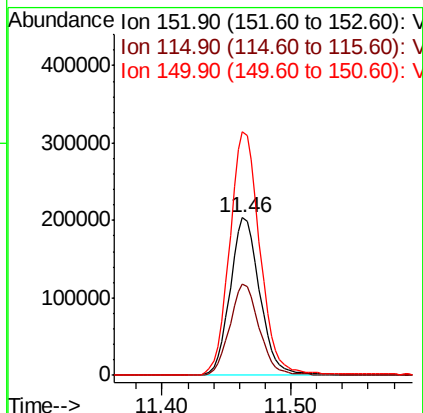
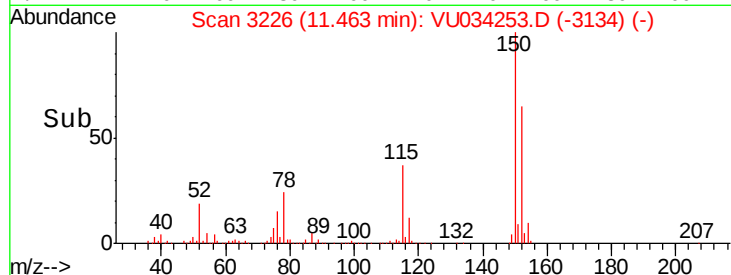
150 157.4 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 19.573 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034253.D

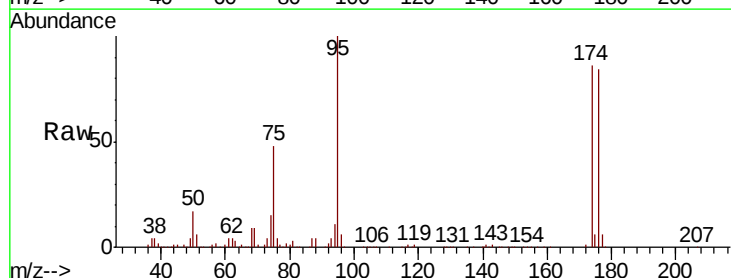
Acq: 04 Sep 2019 13:24

Tgt Ion: 75 Resp: 143862

Ion Ratio Lower Upper

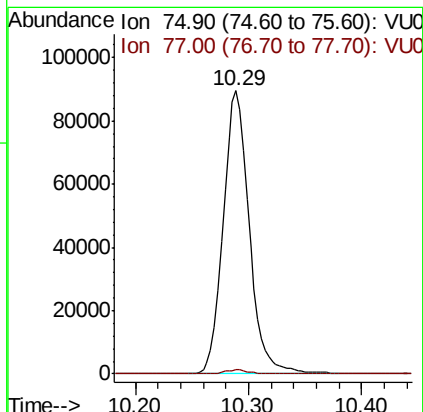
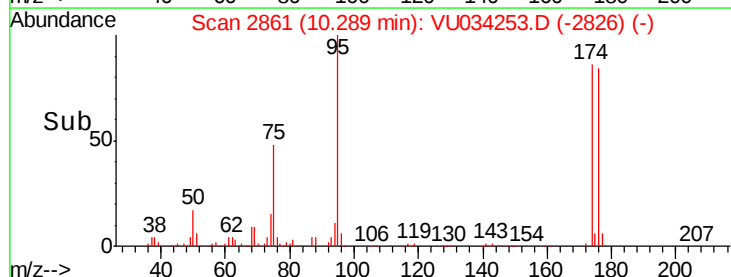
75 100

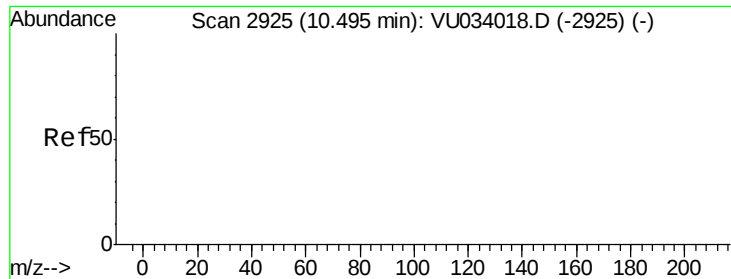
77 1.4 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

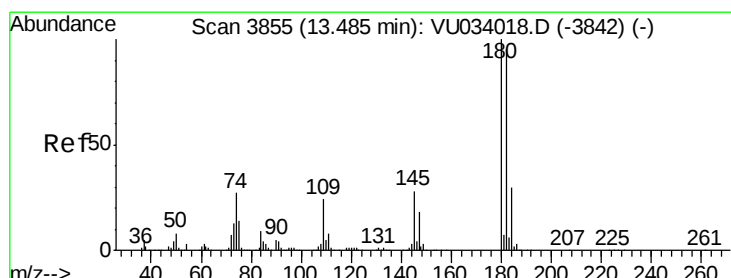
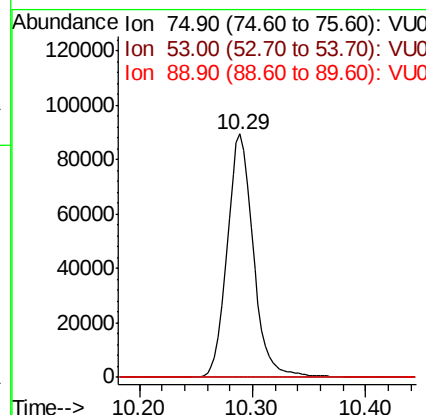
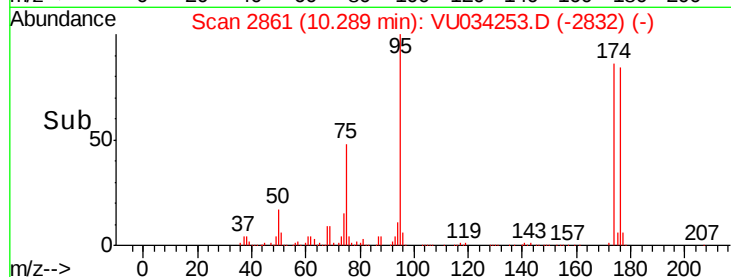
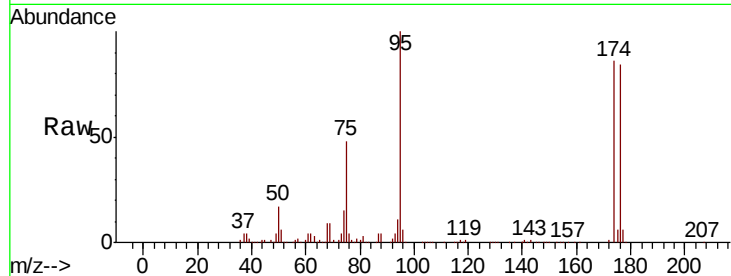




#81
trans-1,4-Dichloro-2-butene
Concen: 65.907 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034253.D
Acq: 04 Sep 2019 13:24

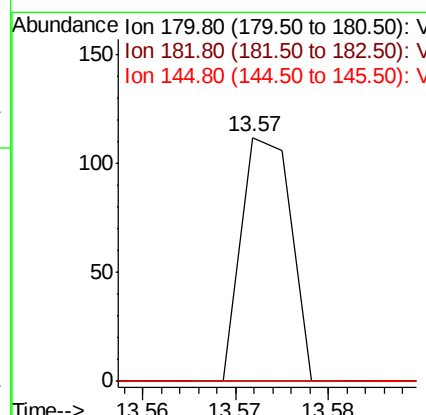
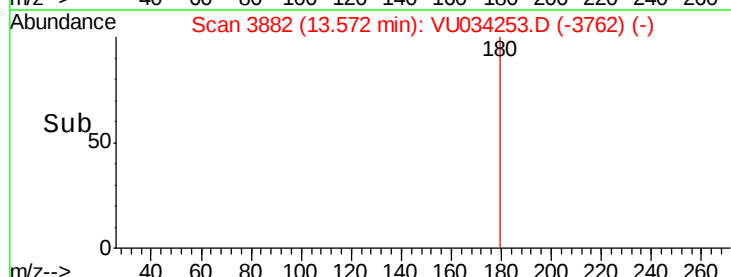
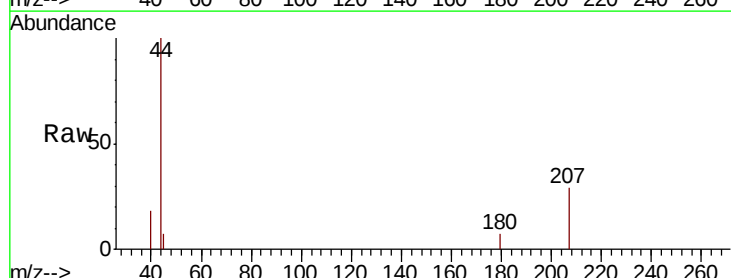
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B4-(2.5)

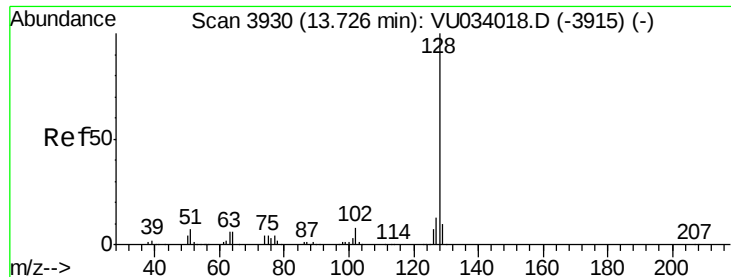
Tgt Ion: 75 Resp: 143862
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.120 ug/l
RT: 13.57 min Scan# 3882
Delta R.T. 0.09 min
Lab File: VU034253.D
Acq: 04 Sep 2019 13:24

Tgt Ion: 180 Resp: 42
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.2#
145 0.0 14.1 42.3#





#95

Naphthalene

Concen: 1.803 ug/l

RT: 13.79 min Scan# 3950

Delta R.T. 0.06 min

Lab File: VU034253.D

Acq: 04 Sep 2019 13:24

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B4-(2.5)

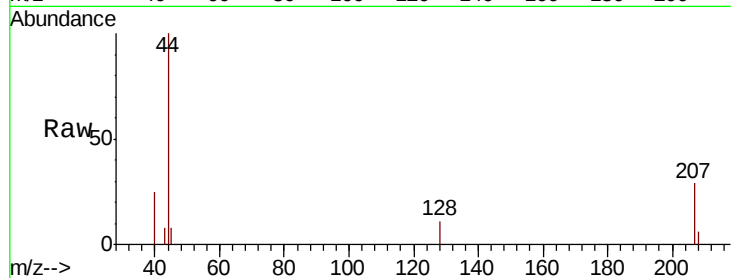
Tgt Ion:128 Resp: 275

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

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

