

Data File : VU034234.D
Acq On : 03 Sep 2019 18:08
Operator : JC/SP
Sample : K4546-27
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(0)

Quant Time: Sep 04 04:26:46 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	444030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	693630	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	696354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	340121	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	272834	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
35) Dibromofluoromethane	4.86	113	230826	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	
50) Toluene-d8	7.55	98	919606	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
62) 4-Bromofluorobenzene	10.29	95	315275	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	

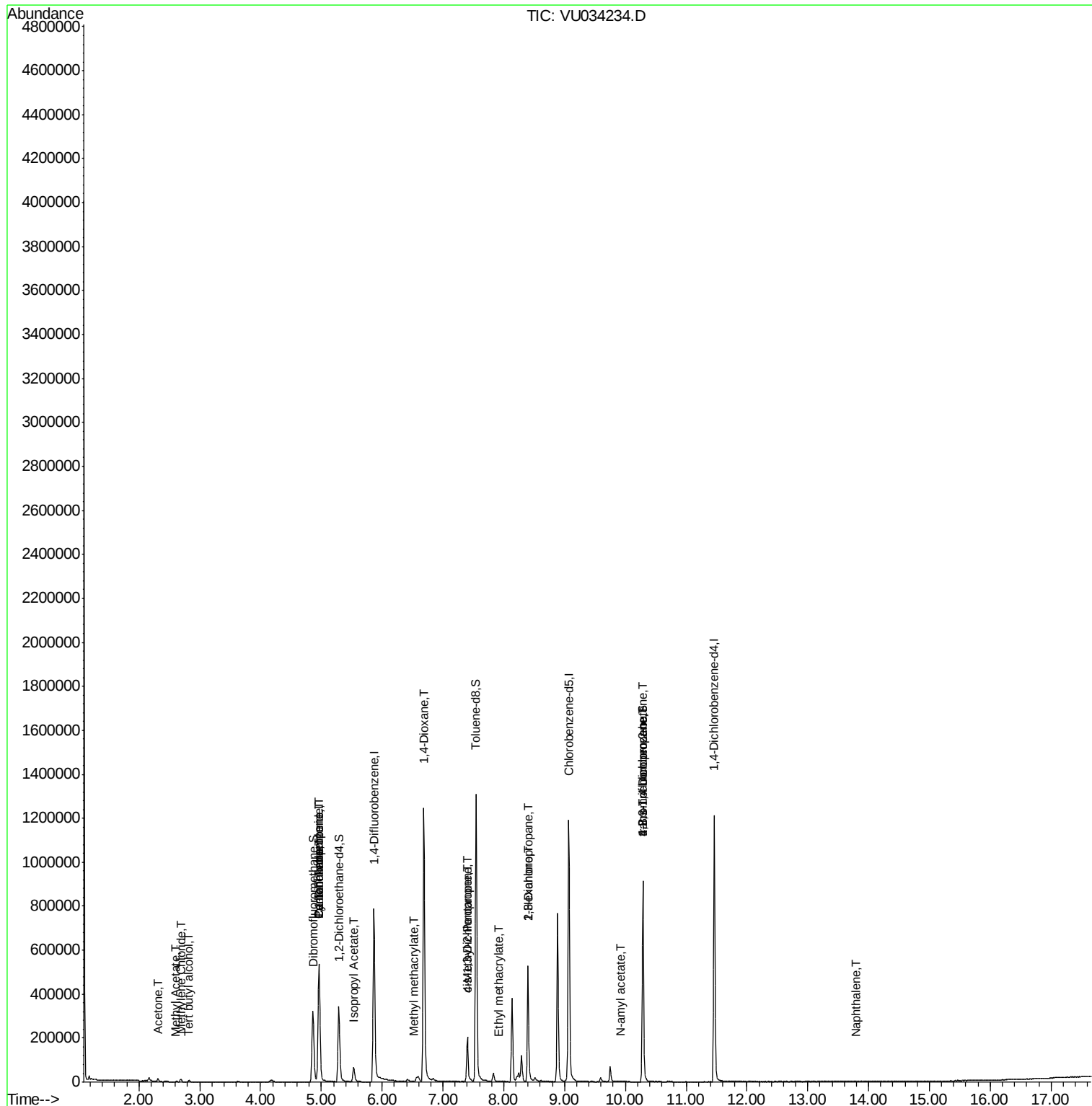
Target Compounds			Qvalue			
3) Chloromethane	1.32	50	538	Below Cal	#	86
5) Bromomethane	1.63	94	541	Below Cal	#	74
11) Tert butyl alcohol	2.82	59	4028	3.070	ug/l #	73
16) Acetone	2.31	43	13741	4.733	ug/l	90
18) Methyl Acetate	2.61	43	2737	0.365	ug/l	96
20) Methylene Chloride	2.69	84	5954	1.083	ug/l	90
31) Cyclohexane	4.96	56	7996	0.941	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31941	4.868	ug/l #	48
38) Carbon Tetrachloride	4.96	117	40768	6.437	ug/l #	16
43) Isopropyl Acetate	5.53	43	82636	7.393	ug/l	99
48) Methyl methacrylate	6.53	41	5273	0.978	ug/l #	14
49) 1,4-Dioxane	6.69	88	93	0.688	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	70002	9.069	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	37349	4.473	ug/l #	65
56) Ethyl methacrylate	7.93	69	306	1.007	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5333	0.607	ug/l #	42
59) 2-Hexanone	8.40	43	72317	12.410	ug/l #	52
74) N-amyl acetate	9.92	43	3419	0.356	ug/l #	45
76) 1,2,3-Trichloropropane	10.29	75	148955	19.431	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	148955	65.430	ug/l #	100
95) Naphthalene	13.79	128	185	1.798	ug/l #	70

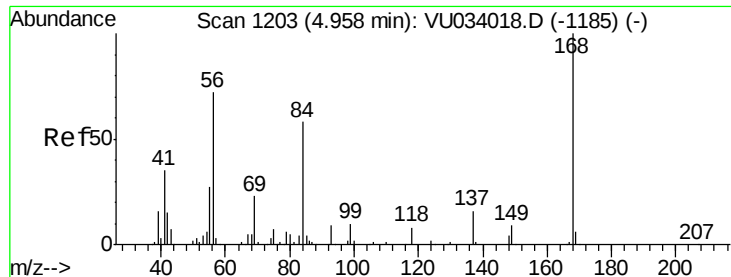
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampleId :

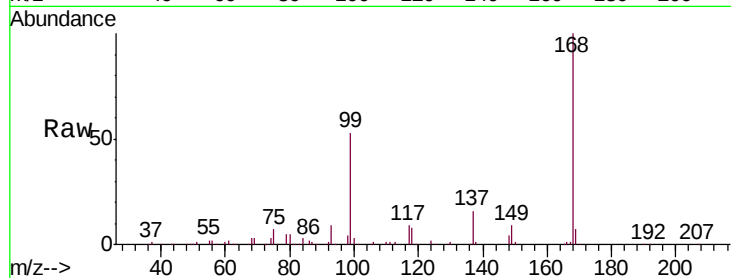
T3-S-C4-(0)

Tgt Ion:168 Resp: 444030

Ion Ratio Lower Upper

168 100

99 52.6 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

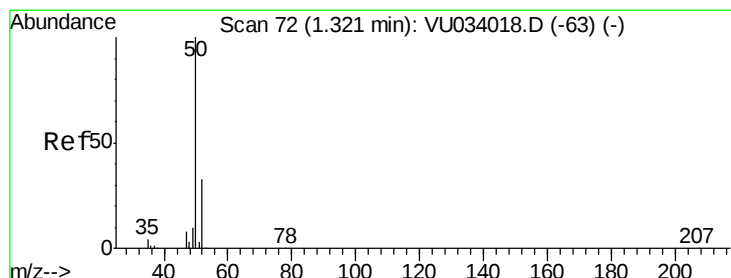
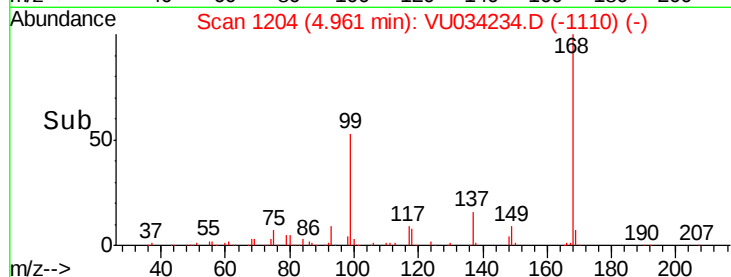
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034234.D

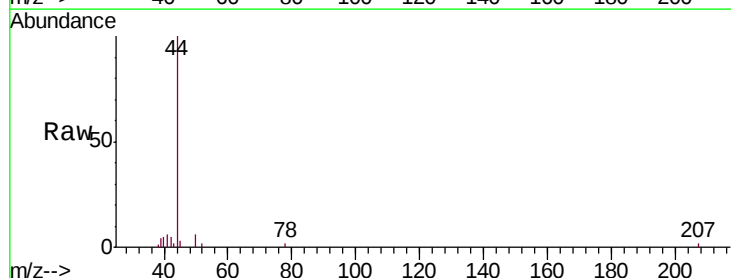
Acq: 03 Sep 2019 18:08

Tgt Ion: 50 Resp: 538

Ion Ratio Lower Upper

50 100

52 40.5 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

400

300

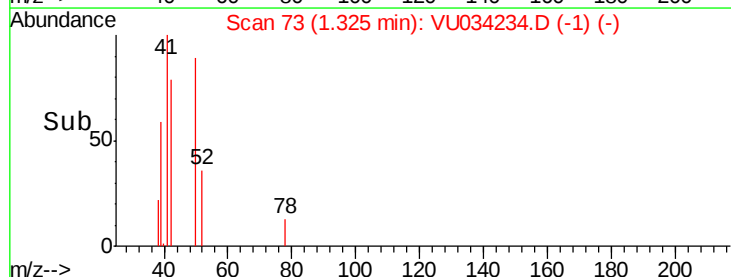
200

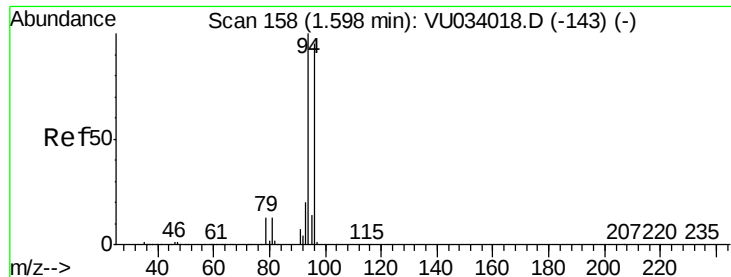
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampleId :

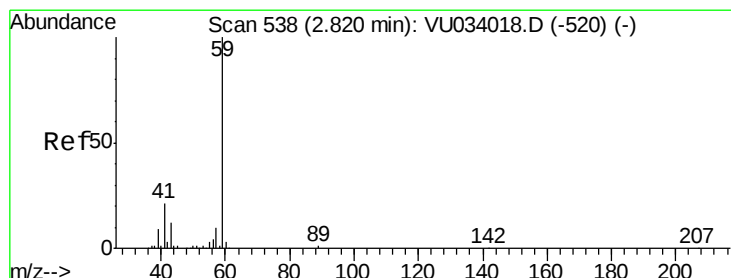
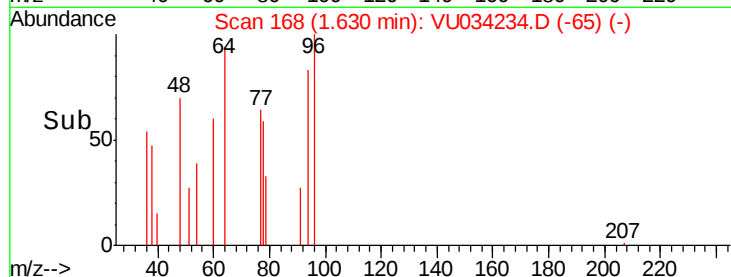
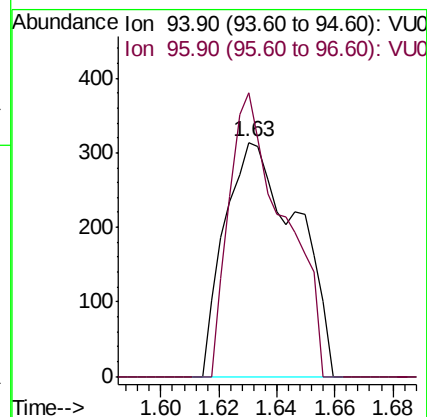
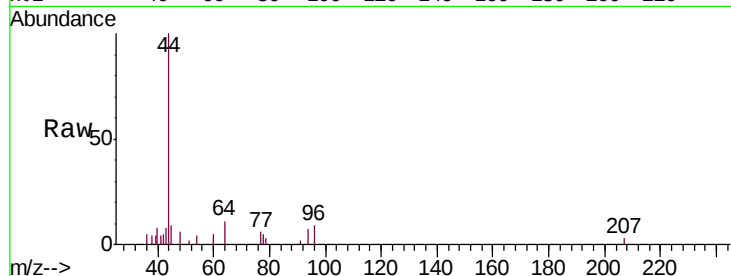
T3-S-C4-(0)

Tgt Ion: 94 Resp: 541

Ion Ratio Lower Upper

94 100

96 121.0 76.3 114.5#



#11

Tert butyl alcohol

Concen: 3.070 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034234.D

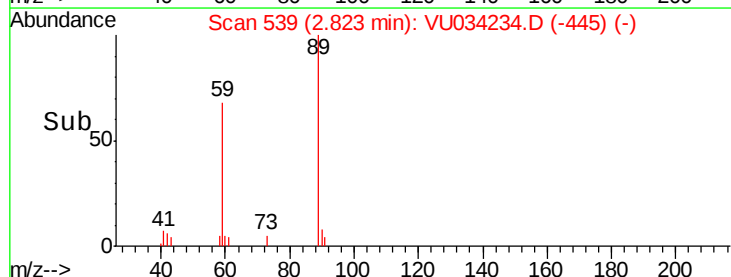
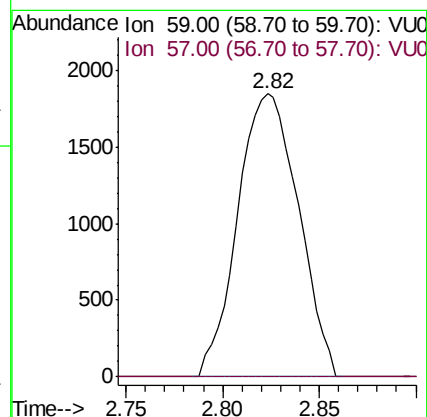
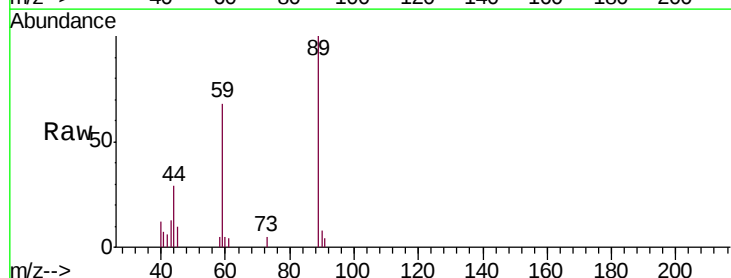
Acq: 03 Sep 2019 18:08

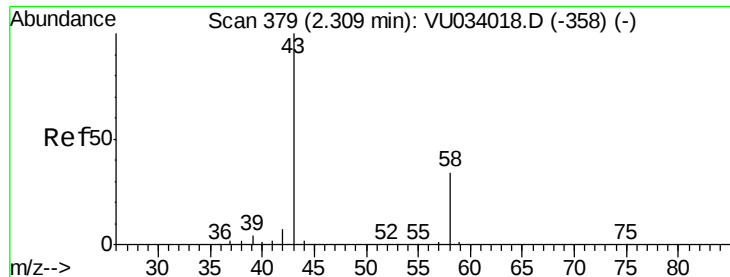
Tgt Ion: 59 Resp: 4028

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#16

Acetone

Concen: 4.733 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampleId :

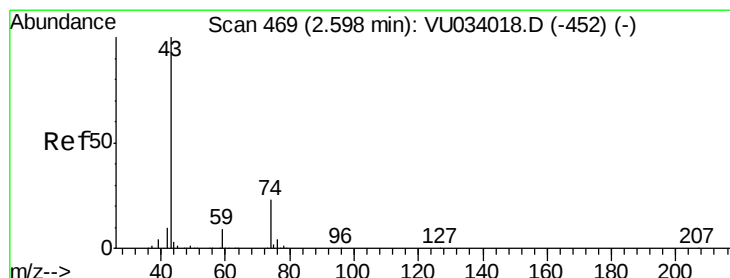
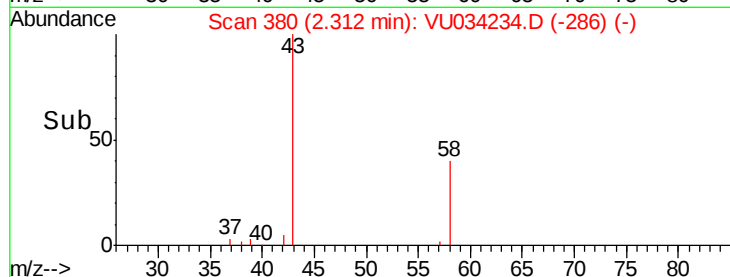
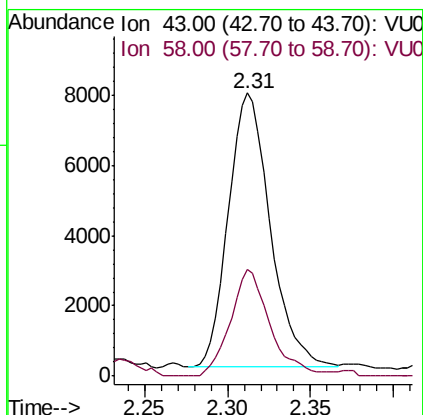
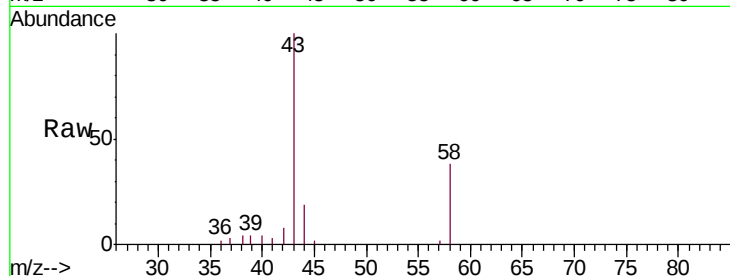
T3-S-C4-(0)

Tgt Ion: 43 Resp: 13741

Ion Ratio Lower Upper

43 100

58 38.9 26.8 40.2



#18

Methyl Acetate

Concen: 0.365 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034234.D

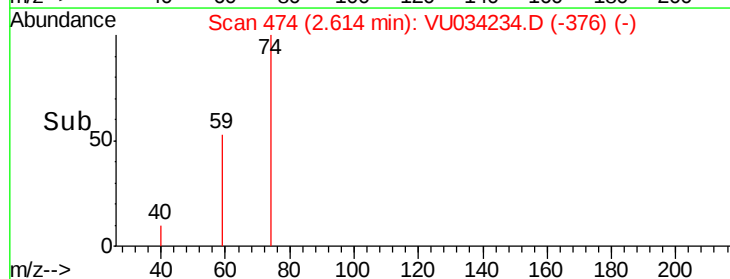
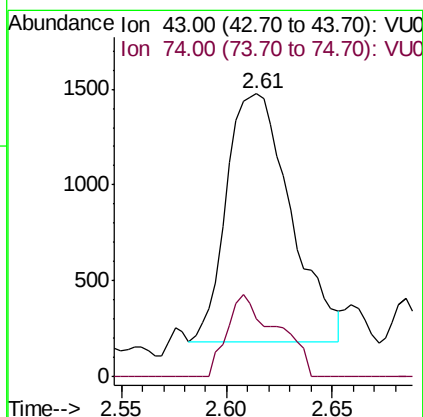
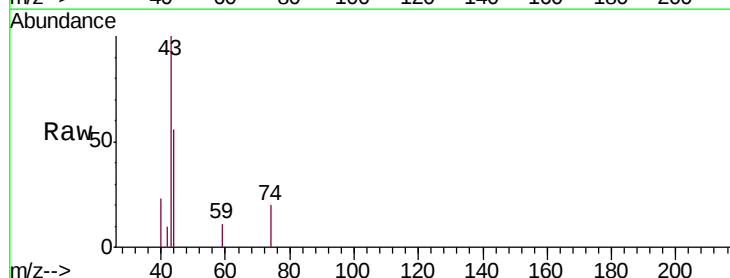
Acq: 03 Sep 2019 18:08

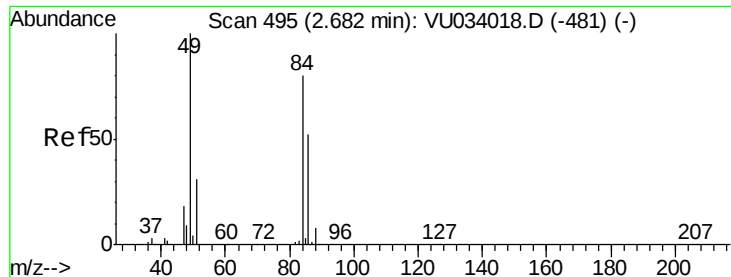
Tgt Ion: 43 Resp: 2737

Ion Ratio Lower Upper

43 100

74 25.8 19.2 28.8

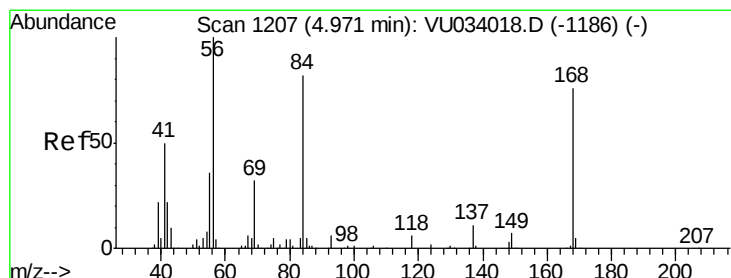
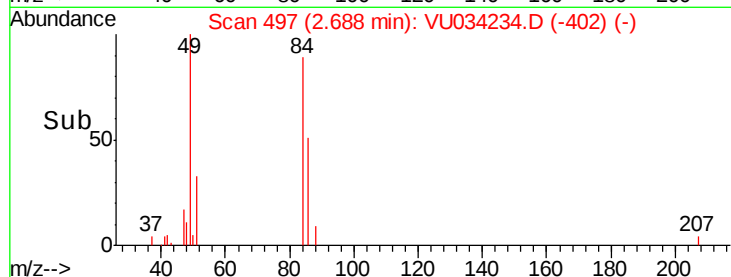
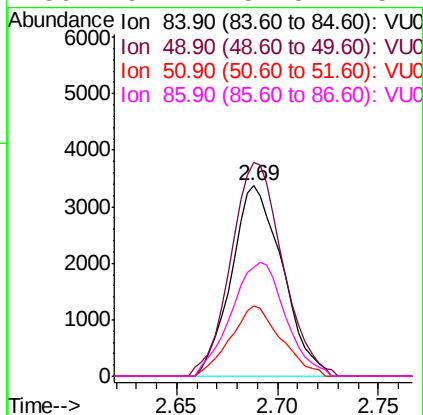
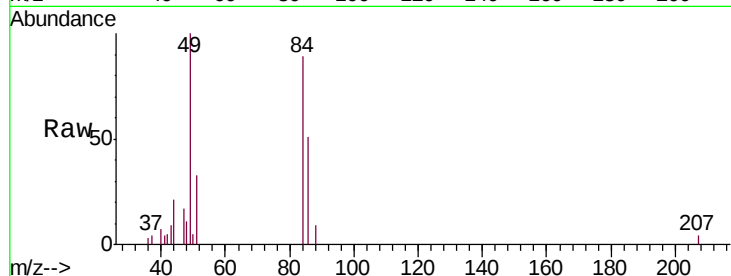




#20
Methylene Chloride
Concen: 1.083 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034234.D
Acq: 03 Sep 2019 18:08

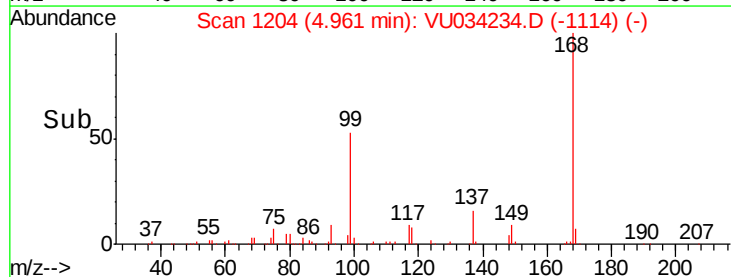
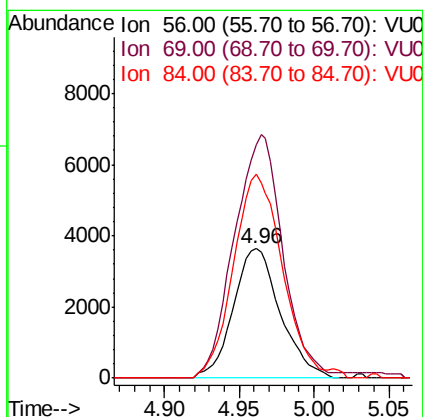
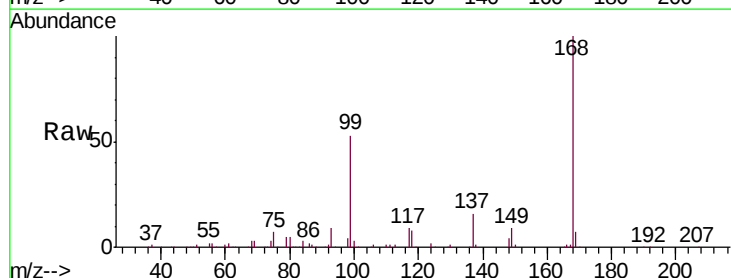
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(0)

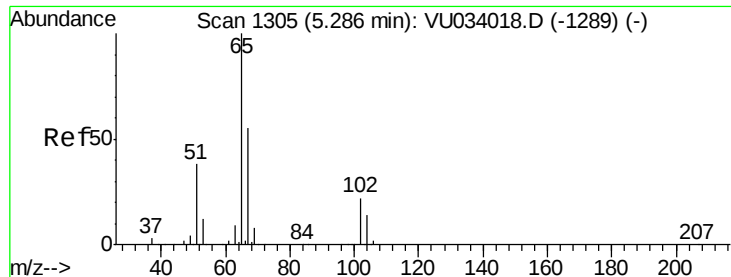
Tgt Ion:	84	Resp:	5954
Ion	Ratio	Lower	Upper
84	100		
49	112.0	100.2	150.4
51	37.3	30.8	46.2
86	57.2	52.5	78.7



#31
Cyclohexane
Concen: 0.941 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034234.D
Acq: 03 Sep 2019 18:08

Tgt Ion:	56	Resp:	7996
Ion	Ratio	Lower	Upper
56	100		
69	180.7	25.4	38.0#
84	157.8	65.8	98.8#

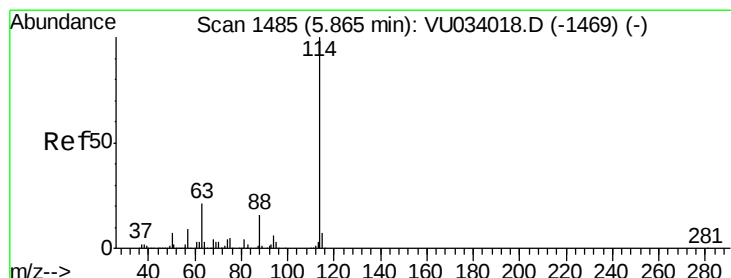
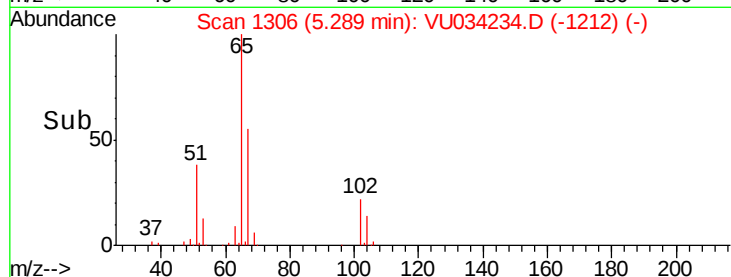
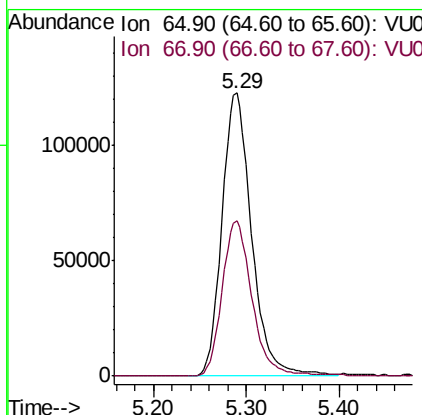
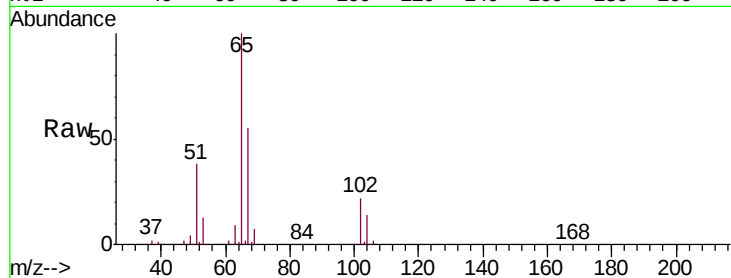




#33
 1,2-Dichloroethane-d4
 Concen: 47.954 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

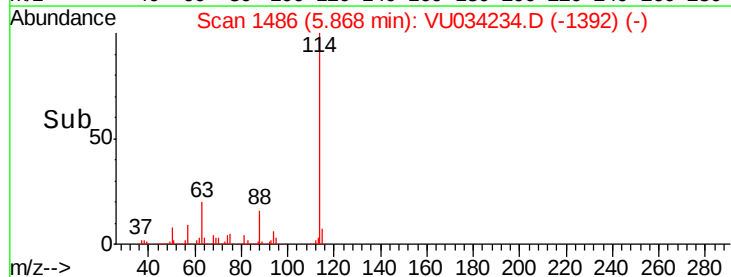
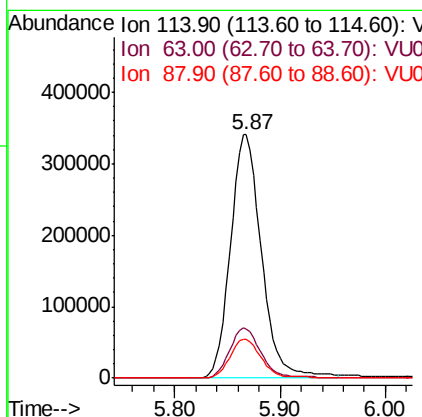
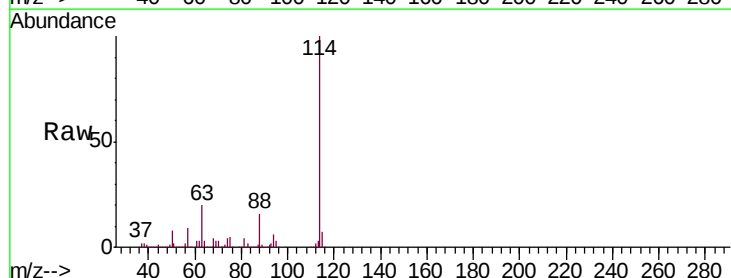
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(0)

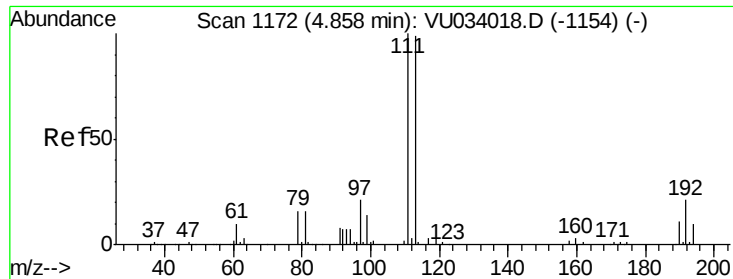
Tgt Ion: 65 Resp: 272834
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

Tgt Ion: 114 Resp: 693630
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.0
 88 16.0 0.0 32.0

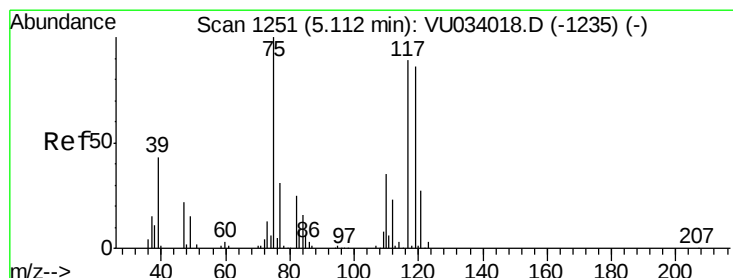
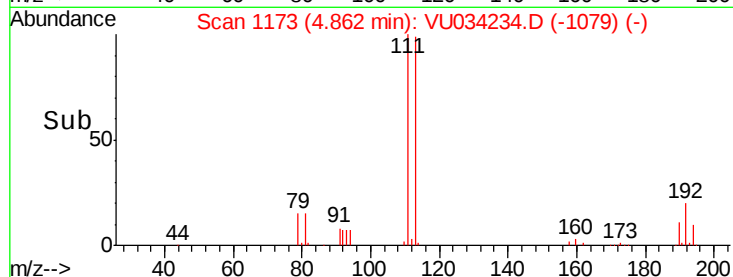
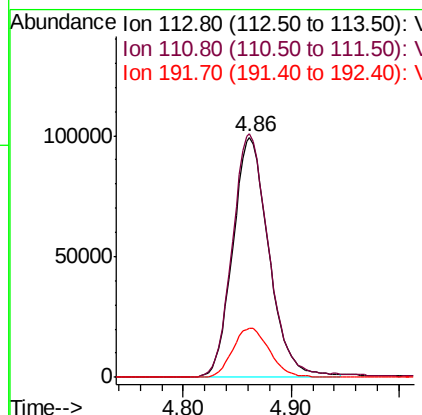
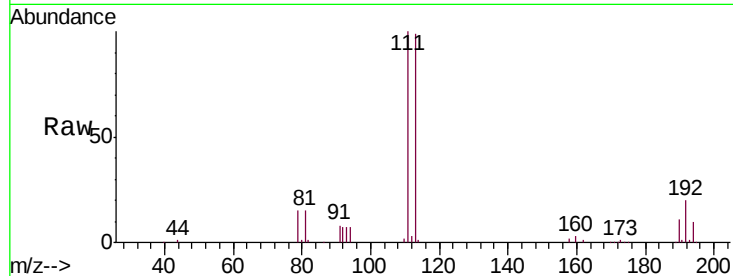




#35
 Dibromofluoromethane
 Concen: 47.979 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

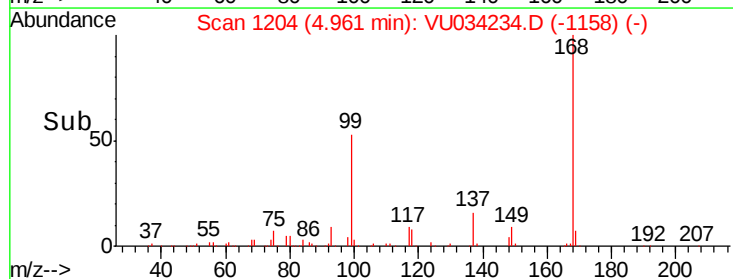
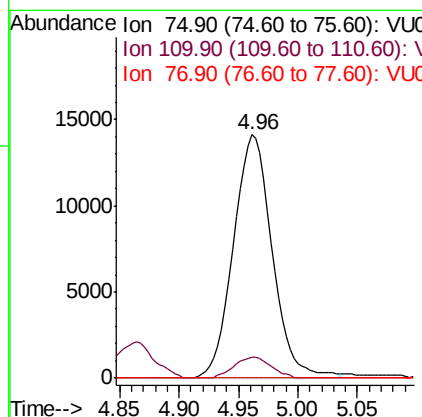
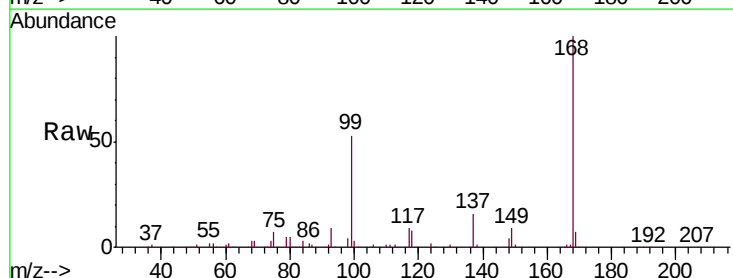
Instrument :
 MSVOA_U
 ClientSampled :
 T3-S-C4-(0)

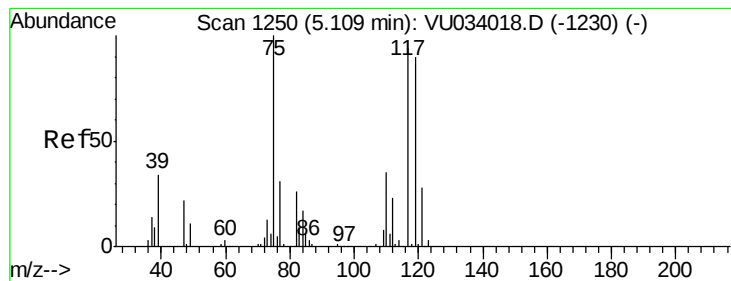
Tgt Ion:113 Resp: 230826
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.7 122.5
 192 20.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.868 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

Tgt Ion: 75 Resp: 31941
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.8 53.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.437 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C4-(0)

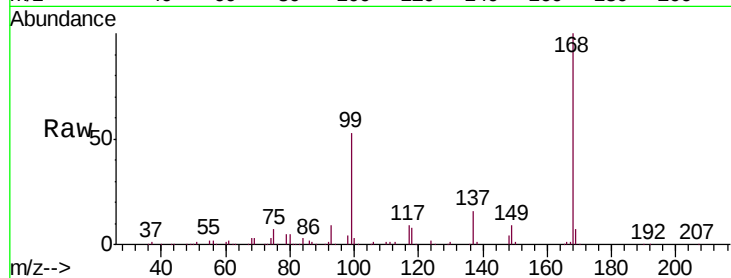
Tgt Ion:117 Resp: 40768

Ion Ratio Lower Upper

117 100

119 4.8 77.0 115.4#

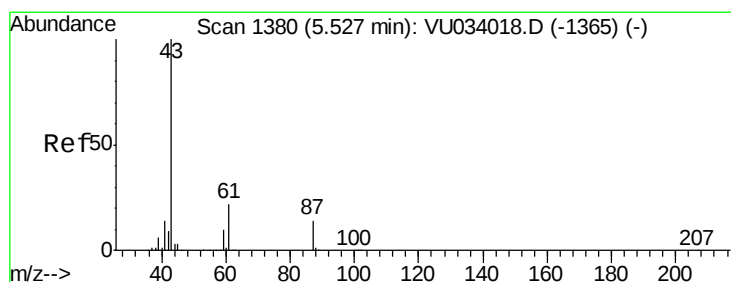
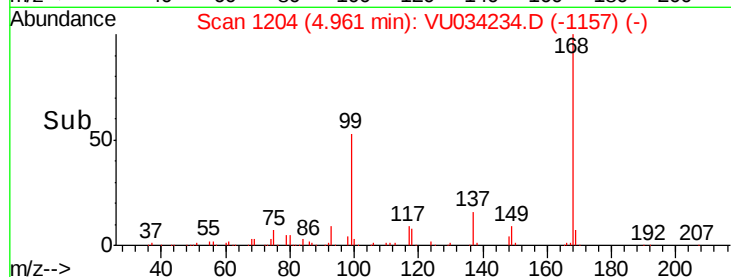
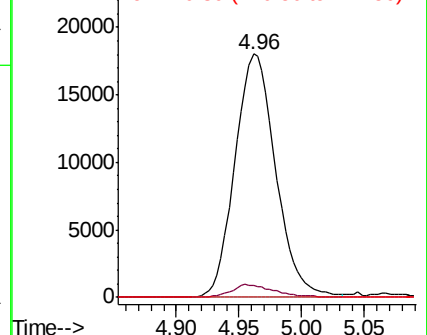
121 0.0 23.9 35.9#



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: 7.393 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

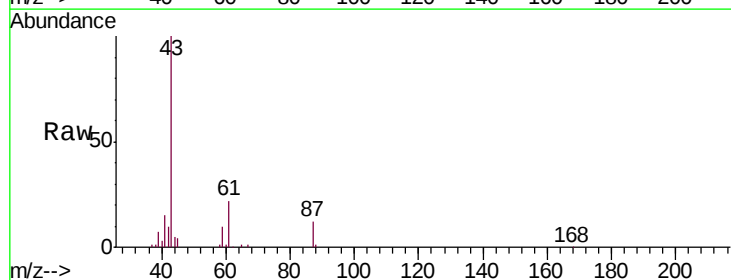
Tgt Ion: 43 Resp: 82636

Ion Ratio Lower Upper

43 100

61 21.7 17.2 25.8

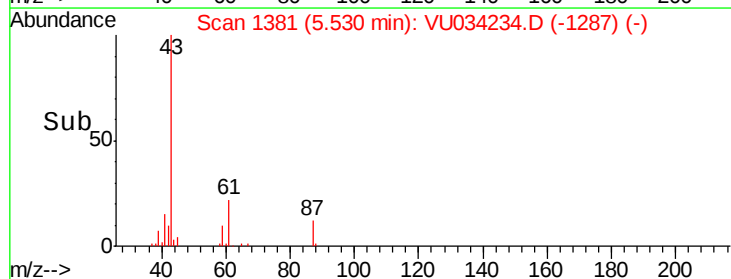
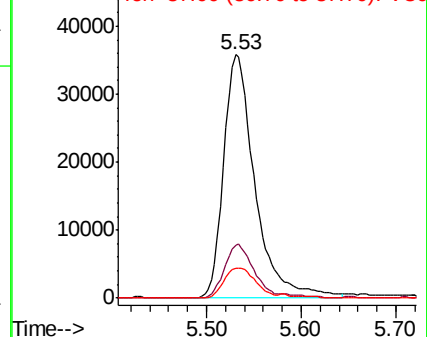
87 12.6 10.8 16.2

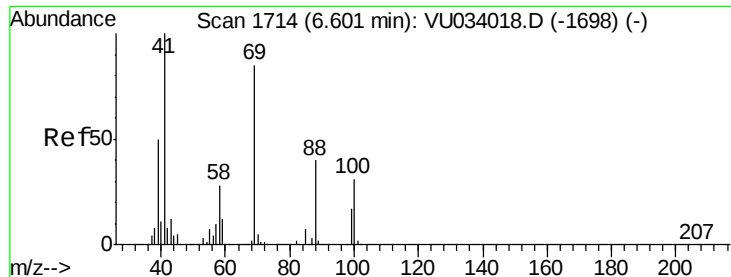


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

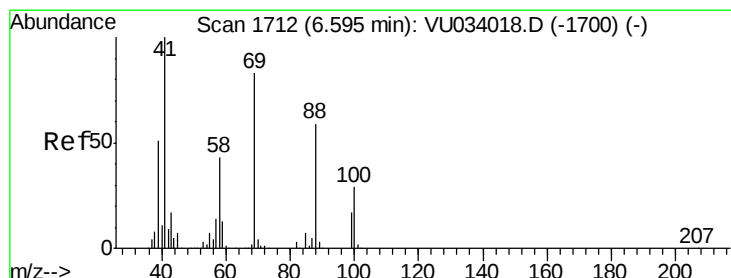
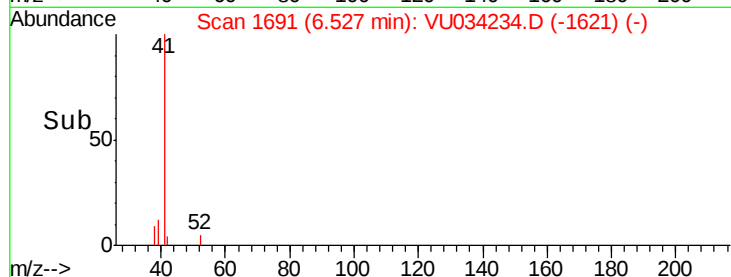
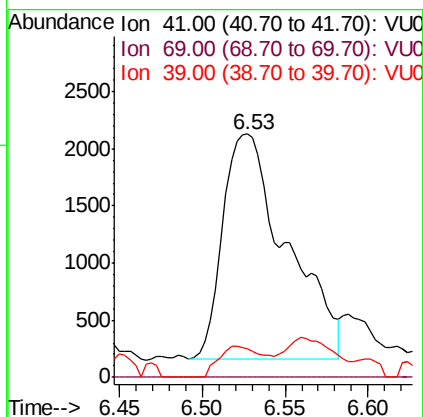
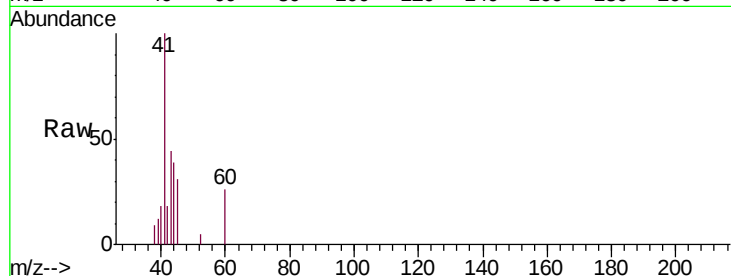




#48
Methyl methacrylate
Concen: 0.978 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034234.D
Acq: 03 Sep 2019 18:08

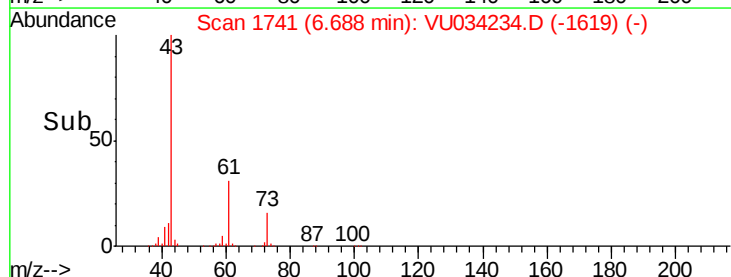
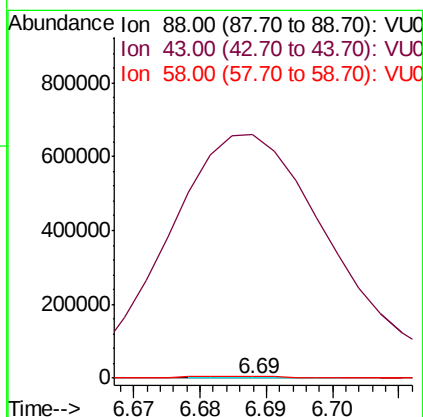
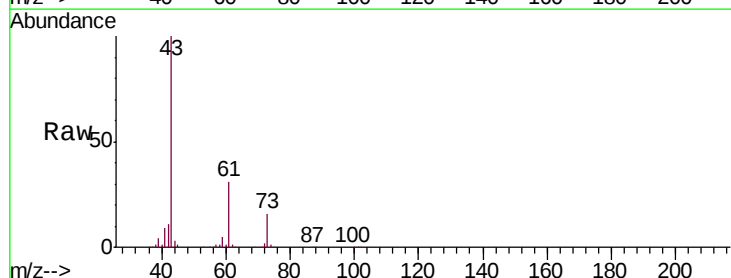
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(0)

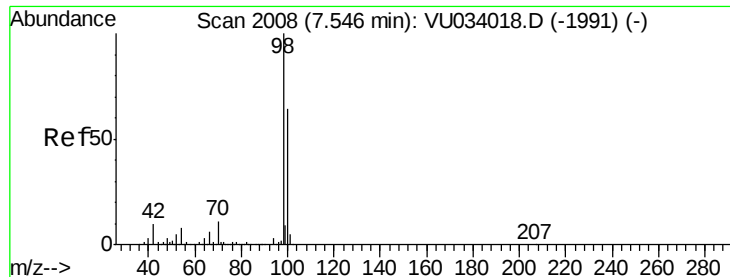
Tgt Ion: 41 Resp: 5273
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.688 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034234.D
Acq: 03 Sep 2019 18:08

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 1316896.8 24.8 37.2#
58 7549.5 59.3 88.9#





#50

Toluene-d8

Concen: 51.049 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampleId :

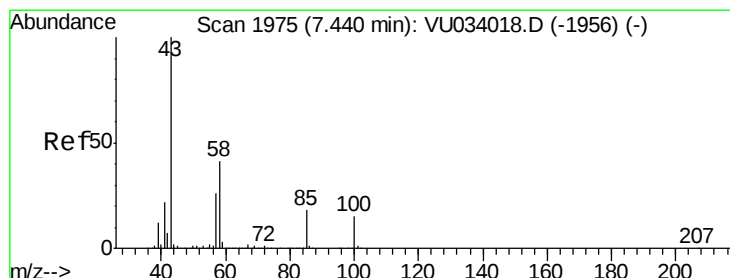
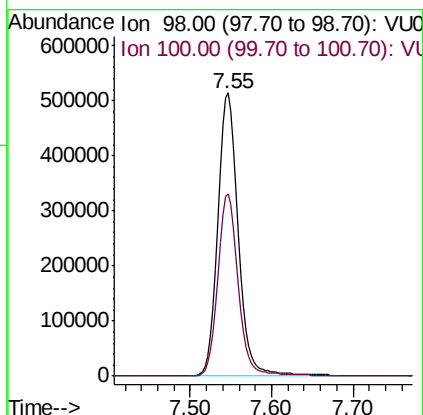
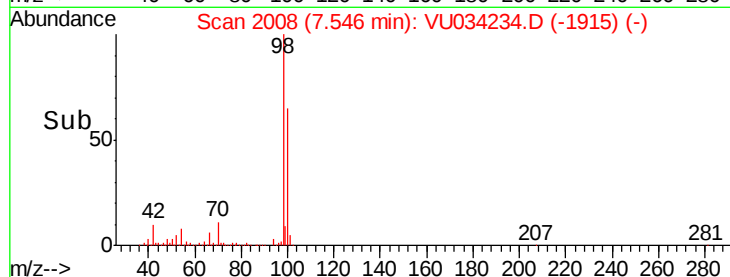
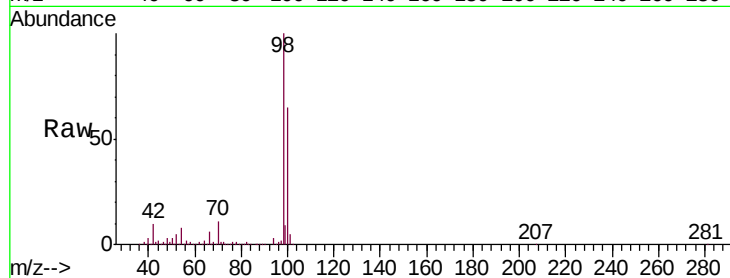
T3-S-C4-(0)

Tgt Ion: 98 Resp: 919606

Ion Ratio Lower Upper

98 100

100 64.4 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 9.069 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034234.D

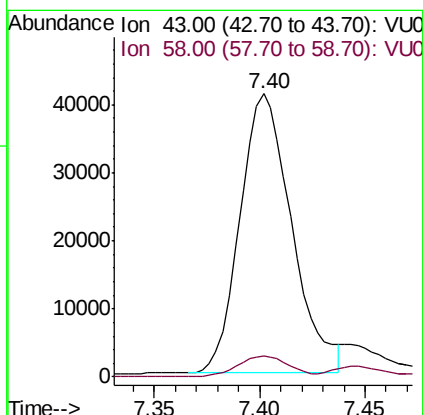
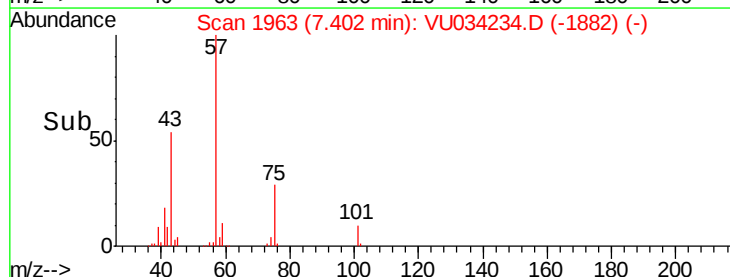
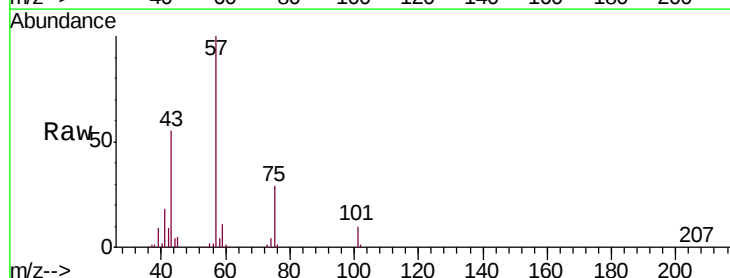
Acq: 03 Sep 2019 18:08

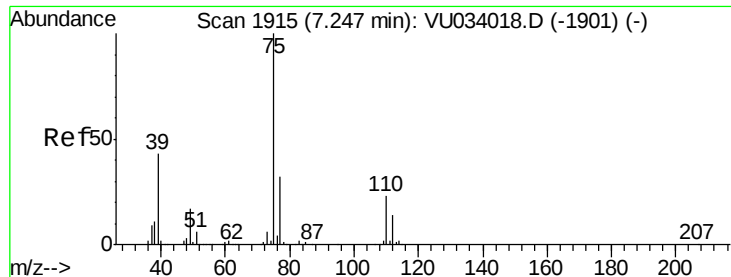
Tgt Ion: 43 Resp: 70002

Ion Ratio Lower Upper

43 100

58 7.3 32.2 48.4#



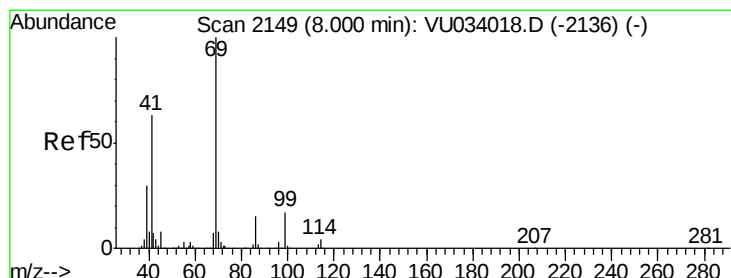
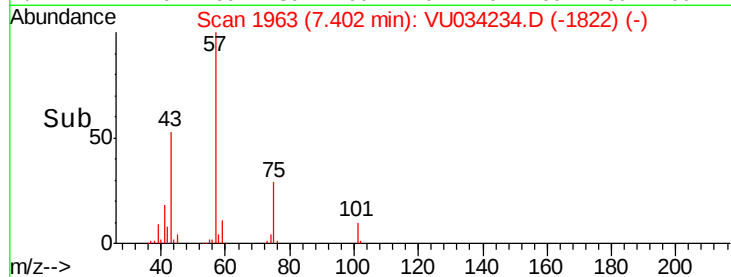
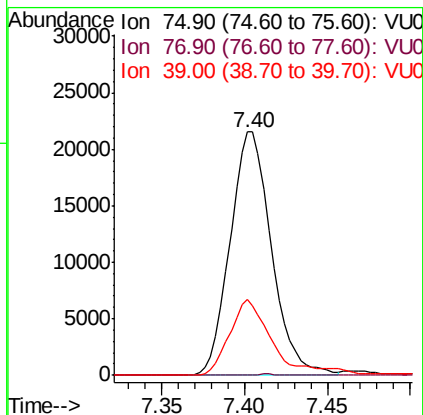
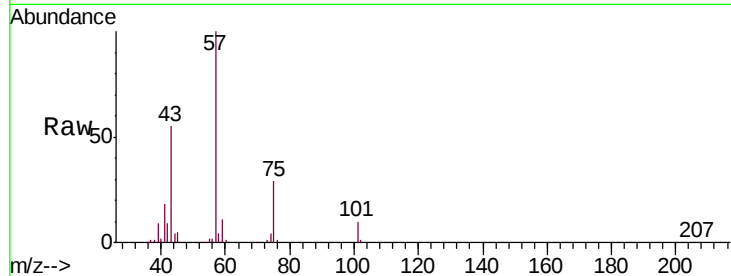


#54

cis-1,3-Dichloropropene
 Concen: 4.473 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(0)

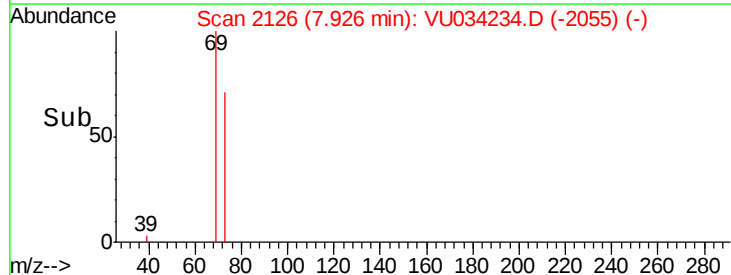
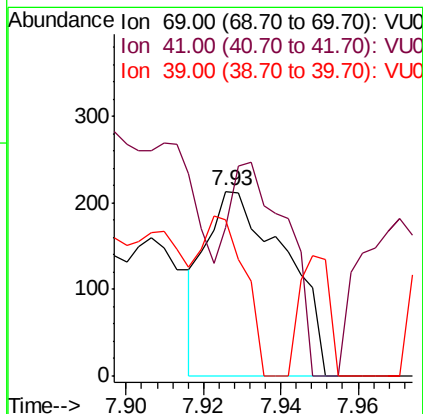
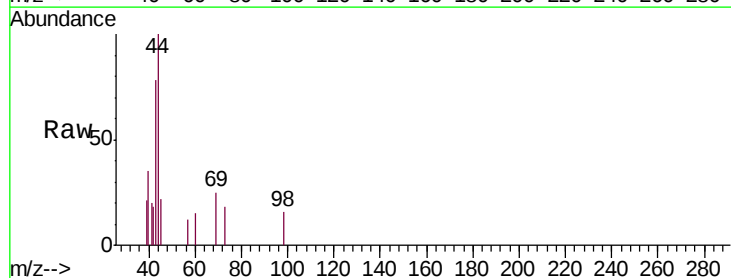
Tgt Ion: 75 Resp: 37349
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 30.9 34.6 51.8#

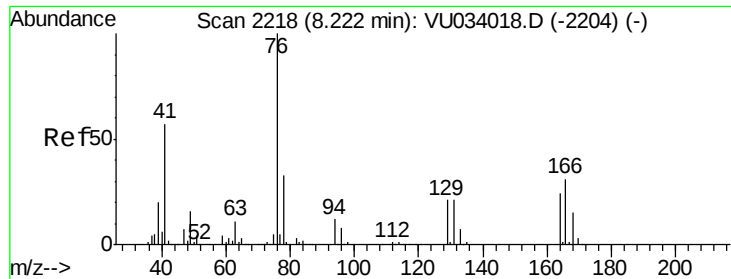


#56

Ethyl methacrylate
 Concen: 1.007 ug/l
 RT: 7.93 min Scan# 2126
 Delta R.T. -0.07 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

Tgt Ion: 69 Resp: 306
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

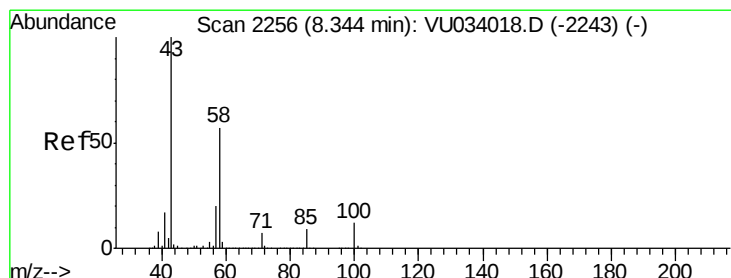
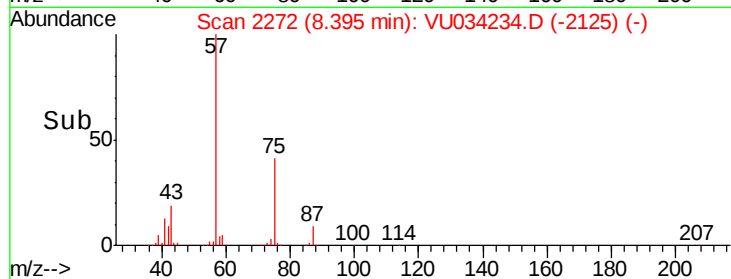
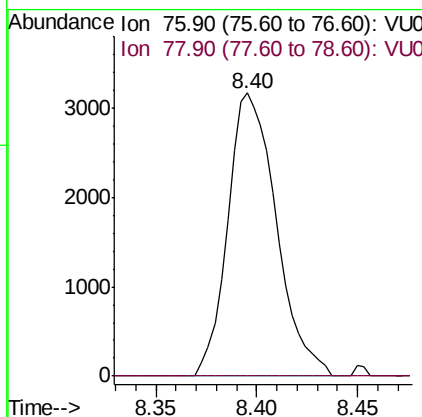
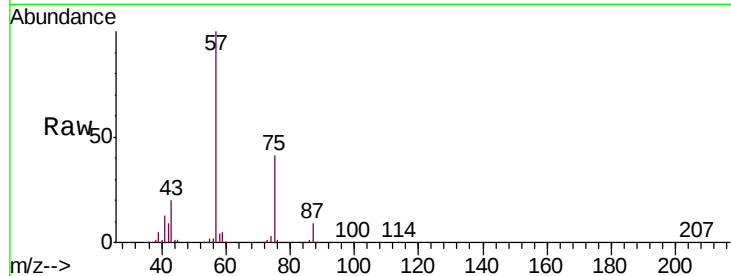




#57
 1,3-Dichloropropane
 Concen: 0.607 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

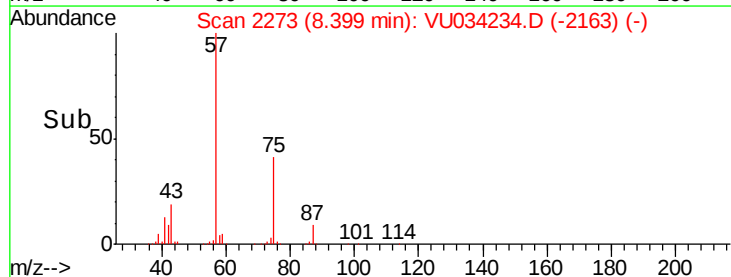
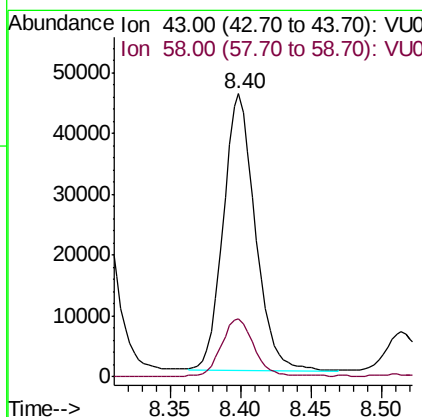
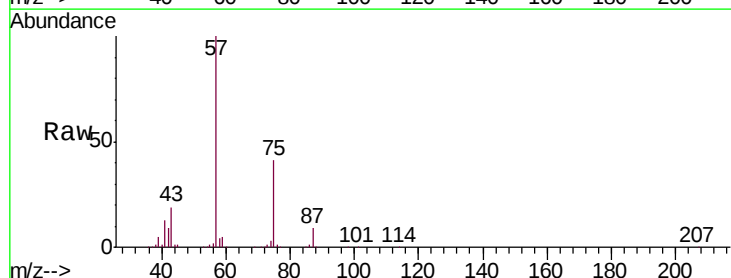
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(0)

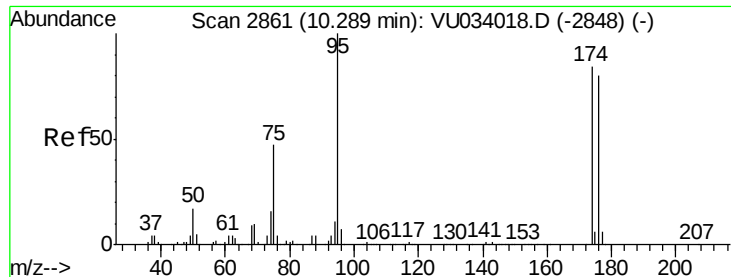
Tgt Ion: 76 Resp: 5333
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 12.410 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

Tgt Ion: 43 Resp: 72317
 Ion Ratio Lower Upper
 43 100
 58 21.6 28.4 85.3#

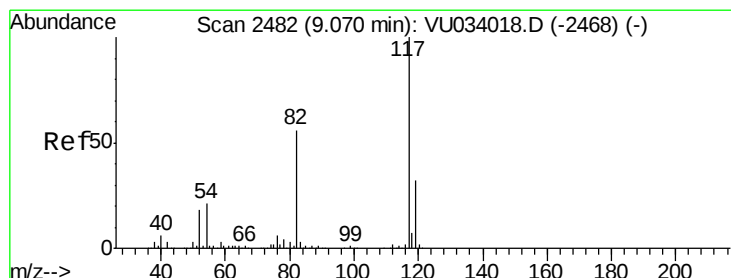
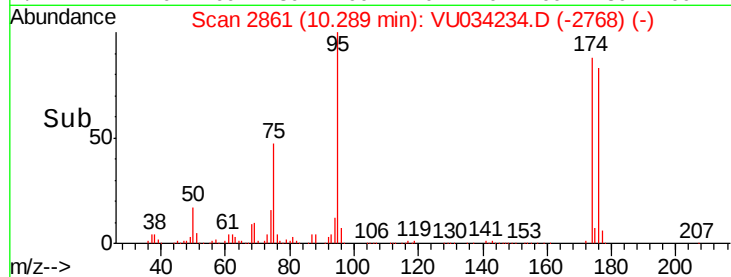
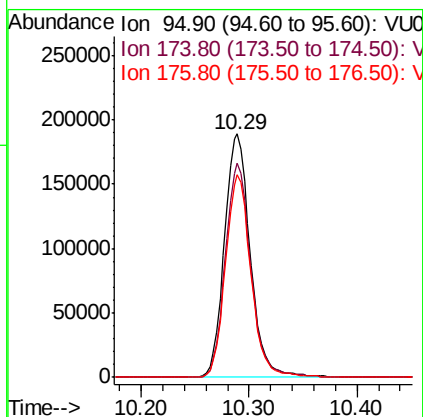
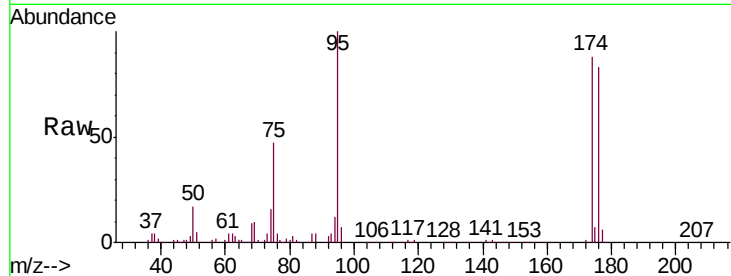




#62
4-Bromofluorobenzene
Concen: 44.993 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034234.D
Acq: 03 Sep 2019 18:08

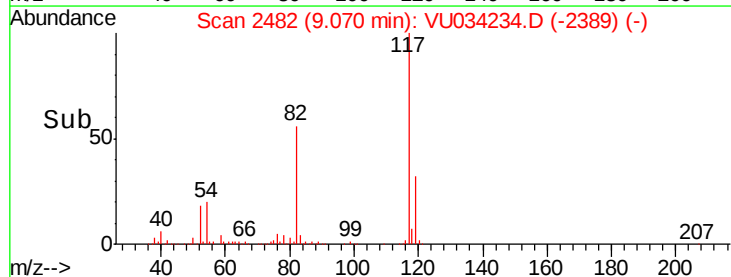
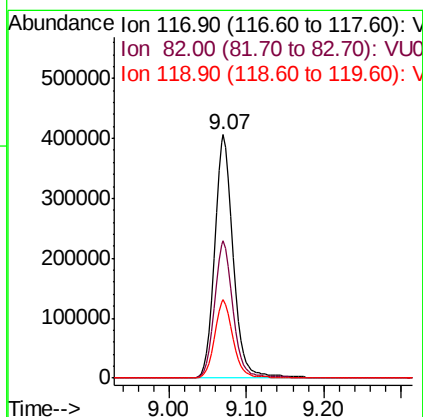
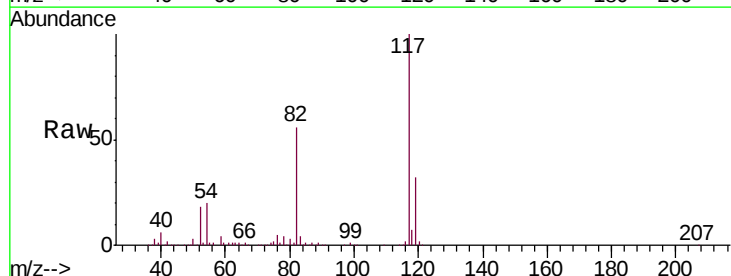
Instrument :
MSVOA_U
ClientSampleId :
T3-S-C4-(0)

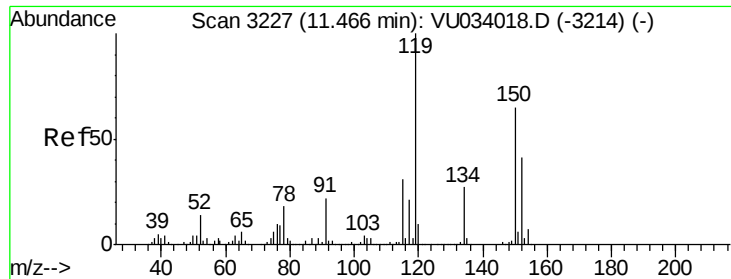
Tgt Ion: 95 Resp: 315275
Ion Ratio Lower Upper
95 100
174 87.0 0.0 168.8
176 82.2 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034234.D
Acq: 03 Sep 2019 18:08

Tgt Ion: 117 Resp: 696354
Ion Ratio Lower Upper
117 100
82 56.4 45.1 67.7
119 32.0 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampleId :

T3-S-C4-(0)

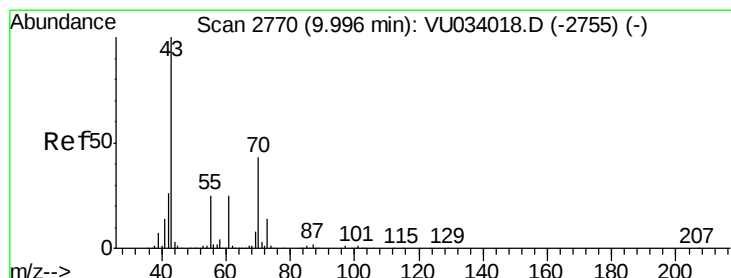
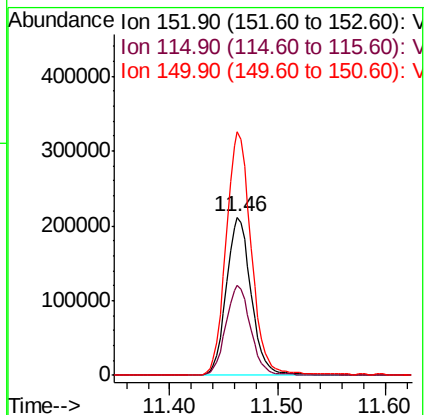
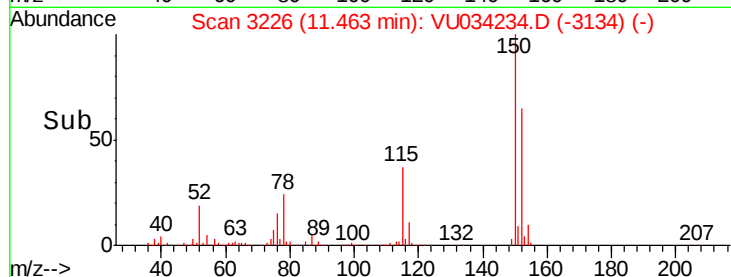
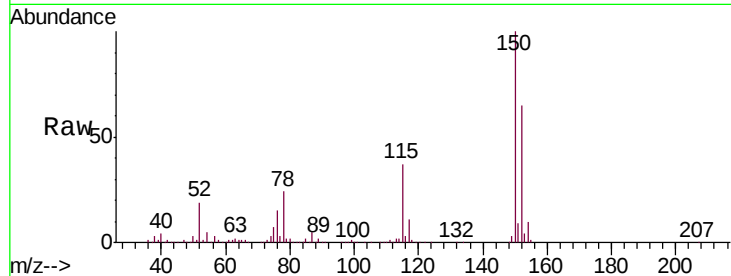
Tgt Ion:152 Resp: 340121

Ion Ratio Lower Upper

152 100

115 57.0 41.1 123.3

150 156.0 0.0 348.8



#74

N-ethyl acetate

Concen: 0.356 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Tgt Ion: 43 Resp: 3419

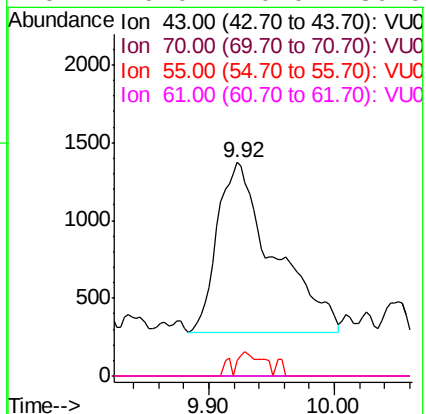
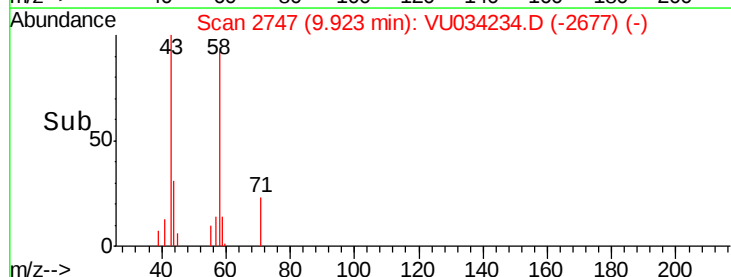
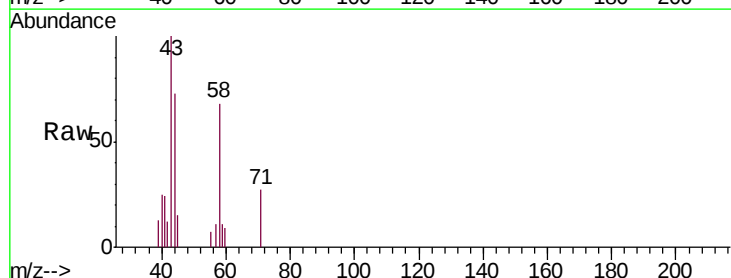
Ion Ratio Lower Upper

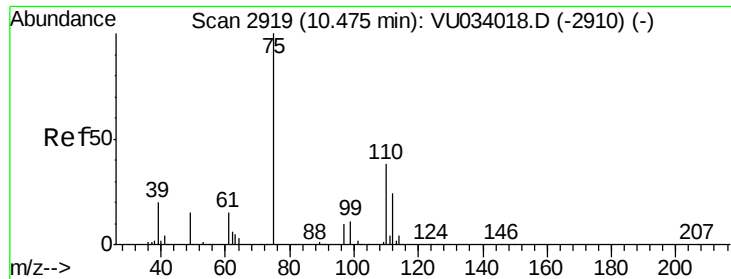
43 100

70 0.0 35.2 52.8#

55 6.0 20.5 30.7#

61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 19.431 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

Instrument :

MSVOA_U

ClientSampled :

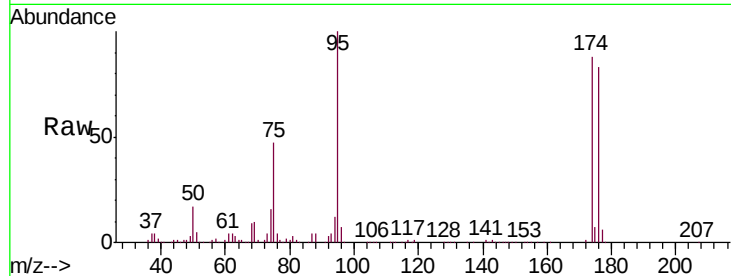
T3-S-C4-(0)

Tgt Ion: 75 Resp: 148955

Ion Ratio Lower Upper

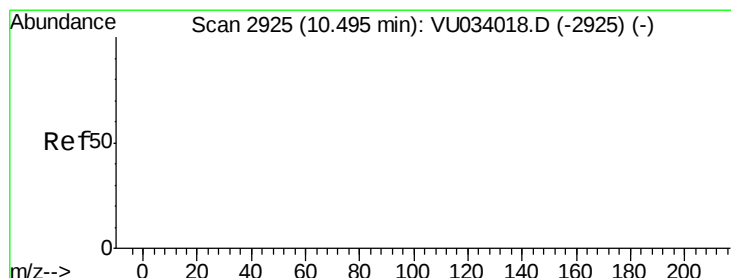
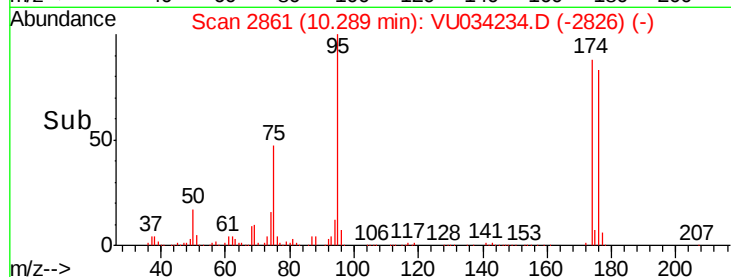
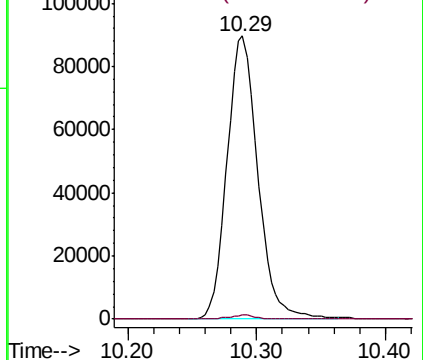
75 100

77 1.2 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: 65.430 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034234.D

Acq: 03 Sep 2019 18:08

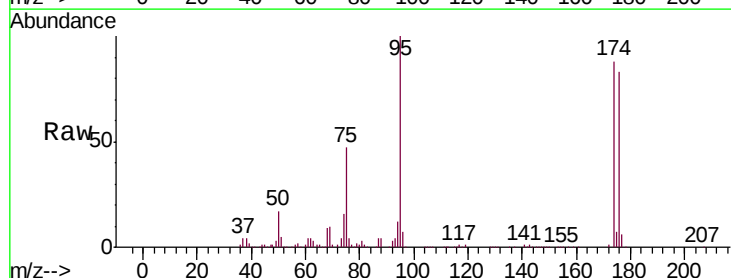
Tgt Ion: 75 Resp: 148955

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

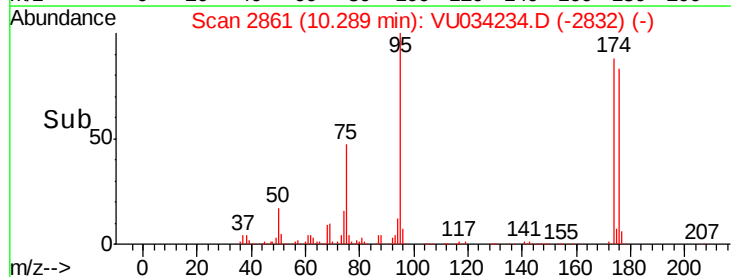
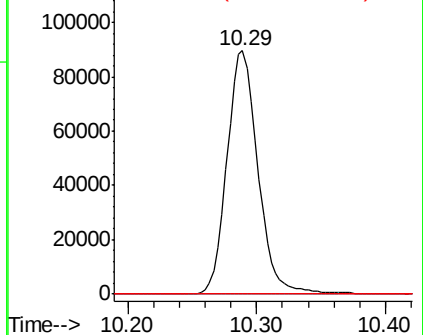
89 0.0 0.0 0.0

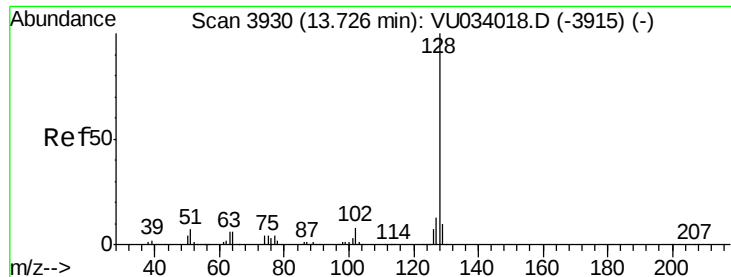


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95
 Naphthalene
 Concen: 1.798 ug/l
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.06 min
 Lab File: VU034234.D
 Acq: 03 Sep 2019 18:08

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-C4-(0)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.4	12.6#

