

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
 Data File : VU034184.D
 Acq On : 01 Sep 2019 21:08
 Operator : JC/SP
 Sample : K4648-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 08:36:39 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	449390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	730709	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	706434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	355495	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	289197	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
35) Dibromofluoromethane	4.86	113	241158	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	7.55	98	923490	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	10.29	95	326833	44.28	ug/l	0.00
Spiked Amount			Recovery	=	88.56%	

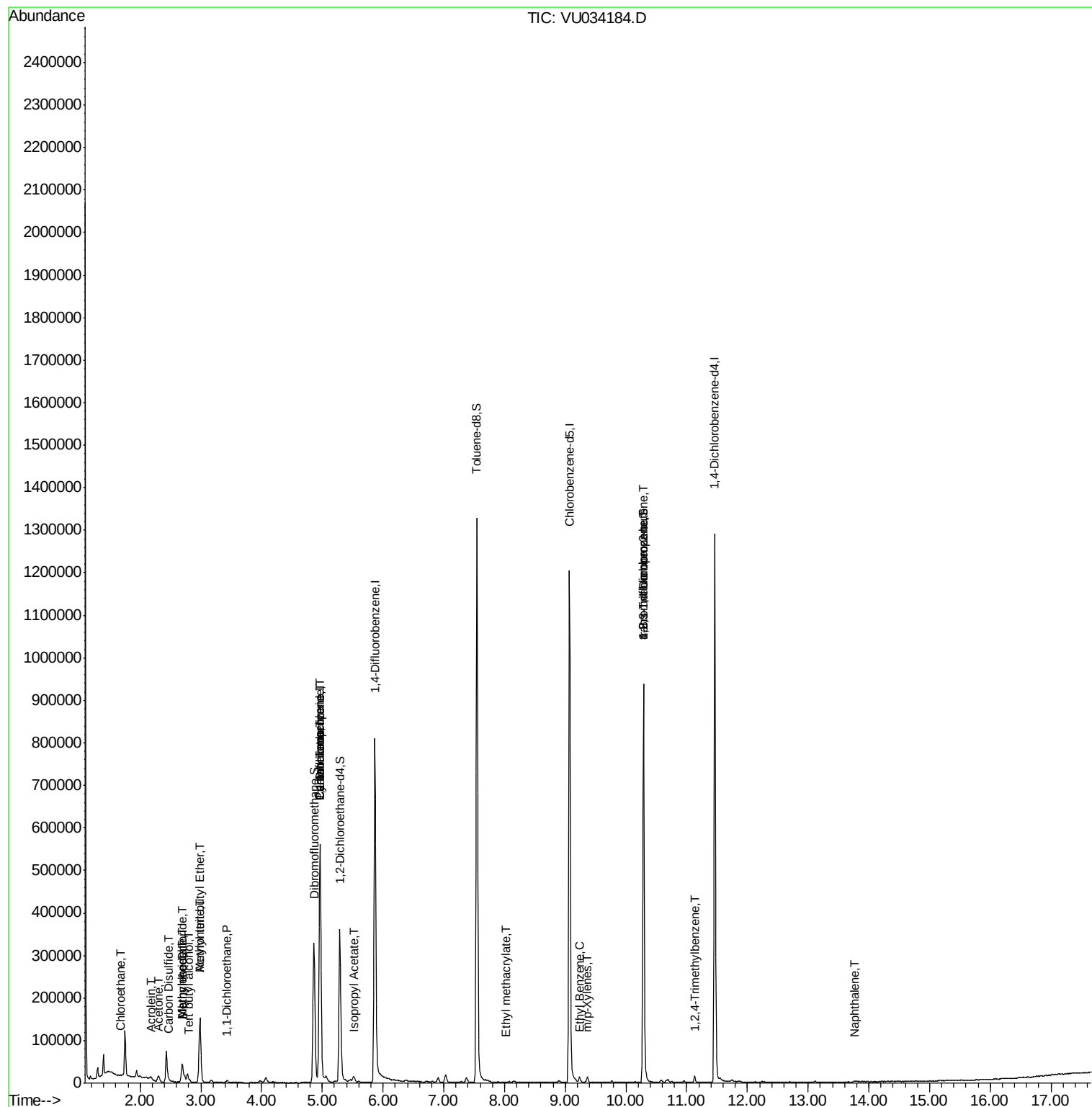
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1059	Below Cal	#	76
5) Bromomethane	1.59	94	20	Below Cal	#	2
6) Chloroethane	1.68	64	1110	0.302	ug/l #	63
11) Tert butyl alcohol	2.81	59	5712	4.302	ug/l #	73
13) Acrolein	2.17	56	179	0.320	ug/l #	1
14) Allyl chloride	2.69	41	11797	1.395	ug/l #	66
15) Acrylonitrile	2.99	53	2137	0.701	ug/l #	33
16) Acetone	2.31	43	13644	4.644	ug/l	99
17) Carbon Disulfide	2.47	76	3033	0.213	ug/l #	90
18) Methyl Acetate	2.69	43	35342	4.655	ug/l #	51
19) Methyl tert-butyl Ether	2.98	73	137526	9.330	ug/l #	76
20) Methylene Chloride	2.69	84	1451	0.261	ug/l #	67
24) 1,1-Dichloroethane	3.43	63	5349	0.585	ug/l #	96
31) Cyclohexane	4.96	56	11306	1.315	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33614	4.863	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40493	6.070	ug/l #	16
43) Isopropyl Acetate	5.51	43	2590	0.220	ug/l #	59
56) Ethyl methacrylate	8.01	69	20	0.974	ug/l #	27
67) Ethyl Benzene	9.23	91	8834	0.358	ug/l	98
68) m/p-Xylenes	9.37	106	3887	0.415	ug/l	91
76) 1,2,3-Trichloropropane	10.29	75	155650	19.427	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	155650	65.414	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.13	105	8947	0.445	ug/l	98
95) Naphthalene	13.76	128	2350	1.892	ug/l #	89

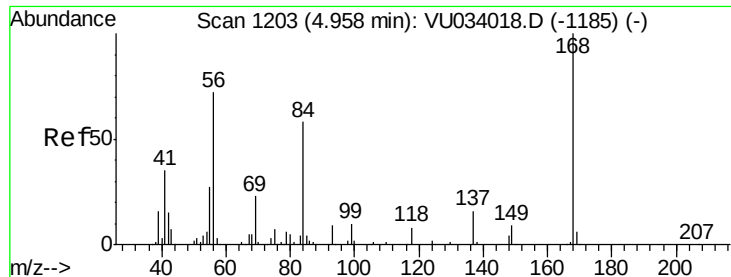
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

Instrument :

MSVOA_U

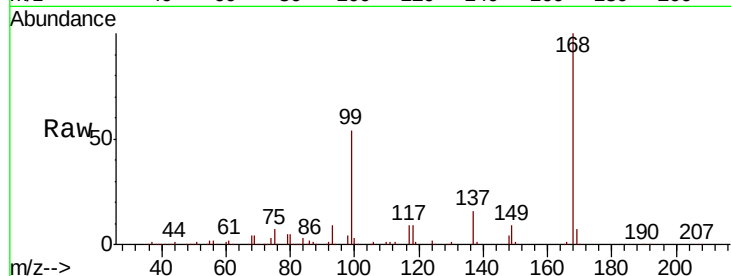
ClientSampleId :

Tot Ion:168 Resp: 449390

Ion Ratio Lower Upper

168 100

99 54.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034184.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034184.D (-1185) (-)

4.96

200000

150000

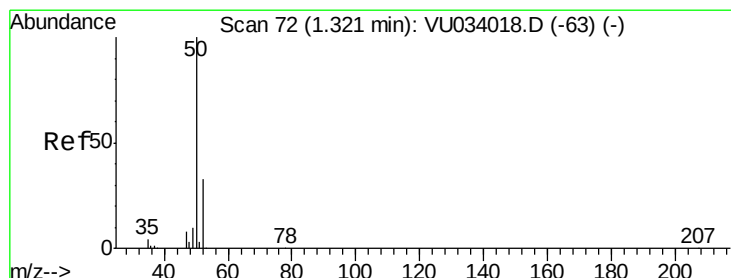
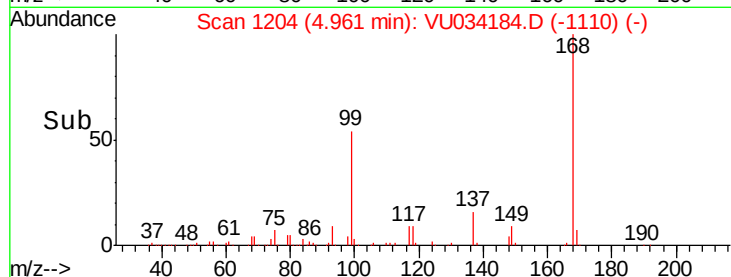
100000

50000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034184.D

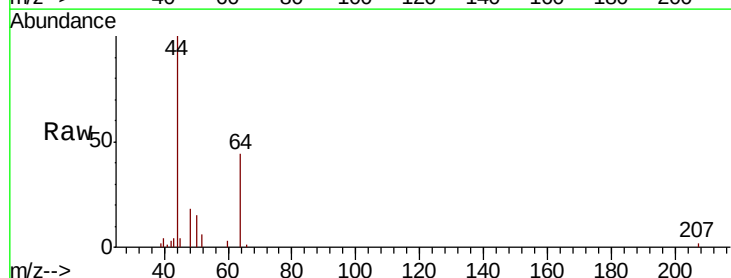
Acq: 01 Sep 2019 21:08

Tgt Ion: 50 Resp: 1059

Ion Ratio Lower Upper

50 100

52 46.1 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034184.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034184.D (-1) (-)

1.32

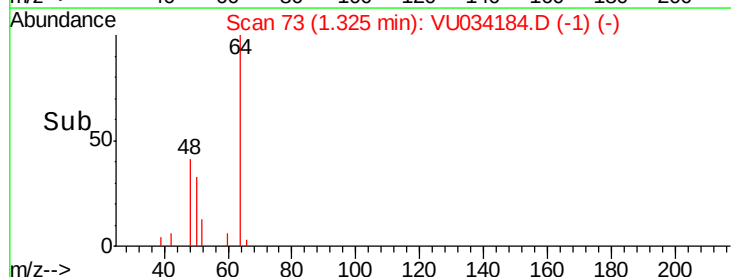
1000

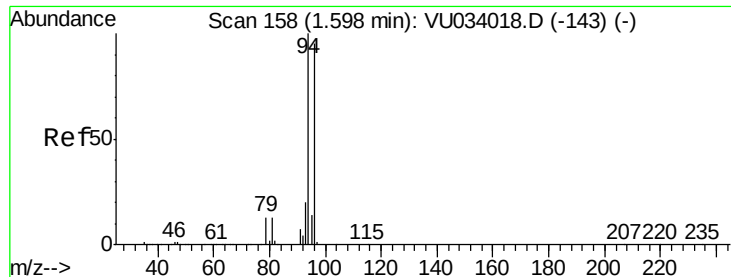
500

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 155

Delta R.T. -0.01 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

Instrument :

MSVOA_U

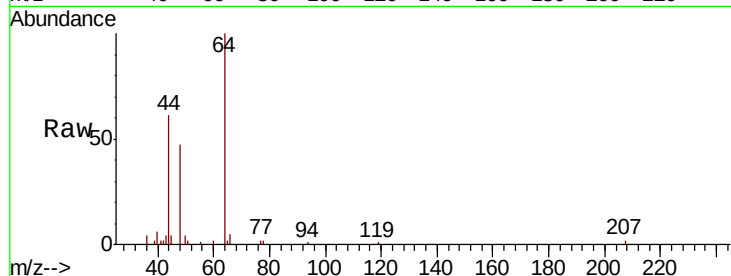
ClientSampleId :

Tot Ion: 94 Resp: 20

Ion Ratio Lower Upper

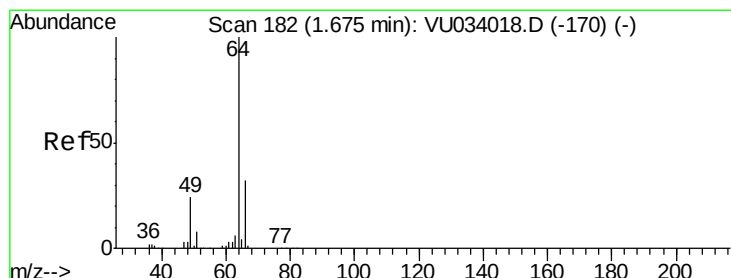
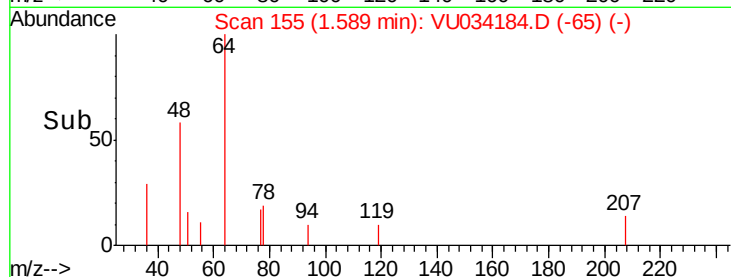
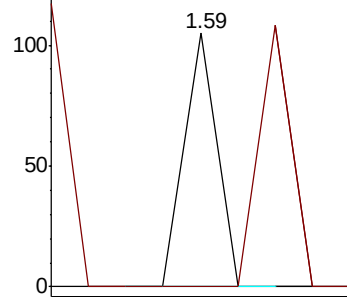
94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.302 ug/l

RT: 1.68 min Scan# 182

Delta R.T. 0.00 min

Lab File: VU034184.D

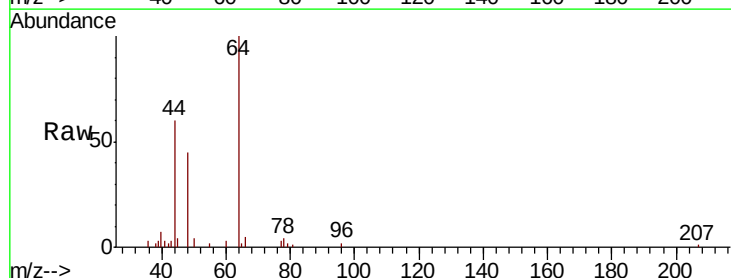
Acq: 01 Sep 2019 21:08

Tgt Ion: 64 Resp: 1110

Ion Ratio Lower Upper

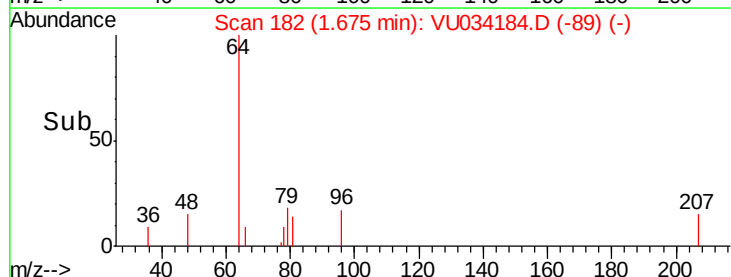
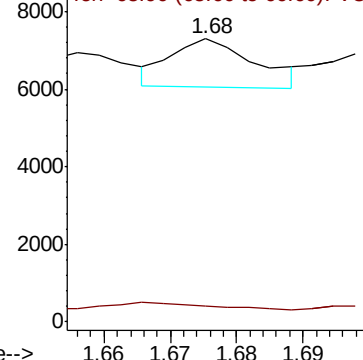
64 100

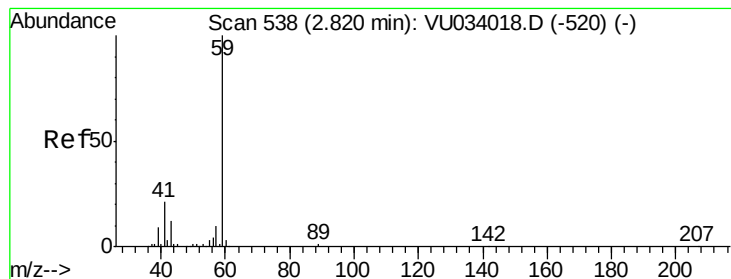
66 11.1 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



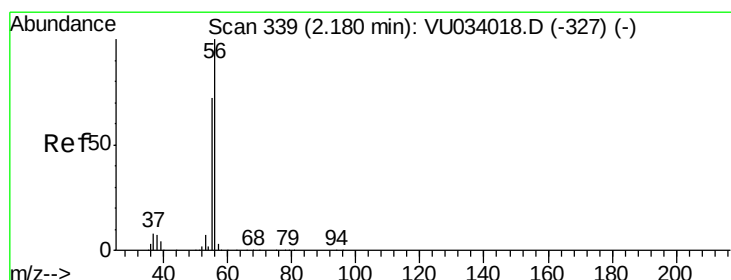
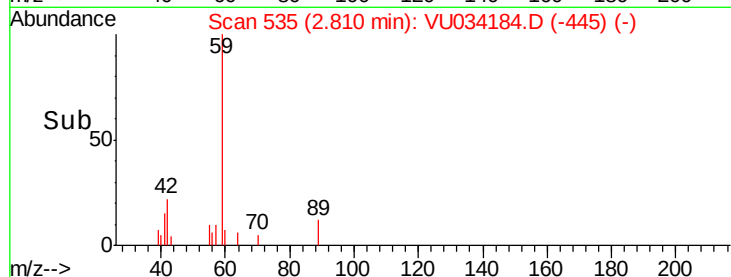
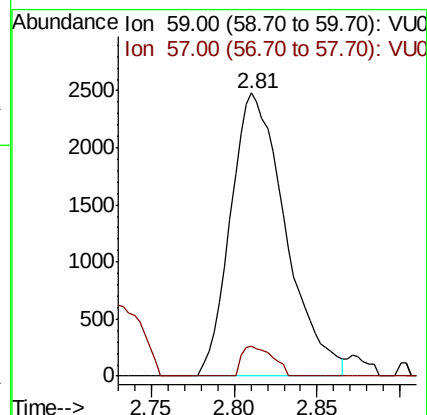
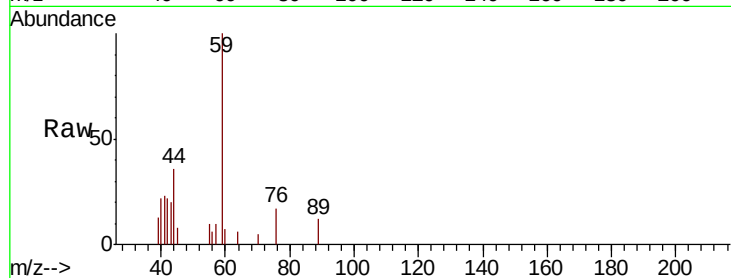


#11

Tert butyl alcohol
 Concen: 4.302 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Instrument :
 MSVOA_U
 ClientSampled :

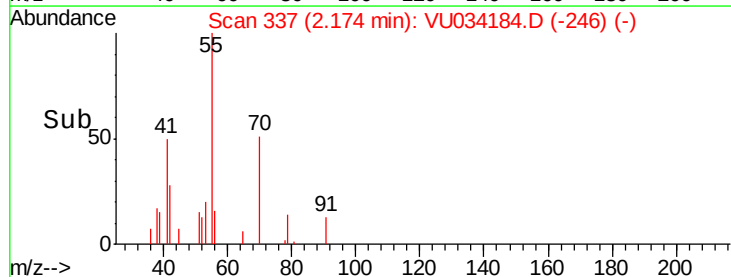
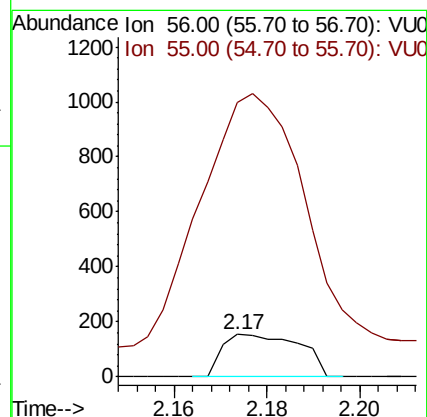
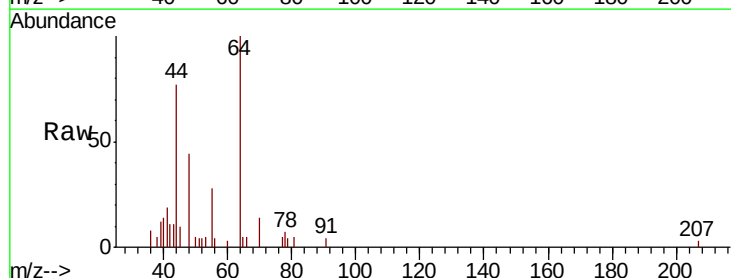
Tot Ion: 59 Resp: 5712
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

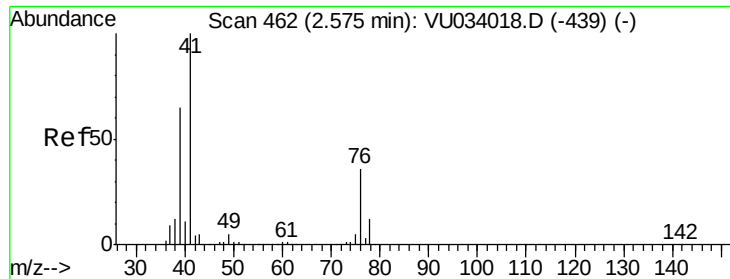


#13

Acrolein
 Concen: 0.320 ug/l
 RT: 2.17 min Scan# 337
 Delta R.T. -0.01 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Tgt Ion: 56 Resp: 179
 Ion Ratio Lower Upper
 56 100
 55 1113.4 57.1 85.7#

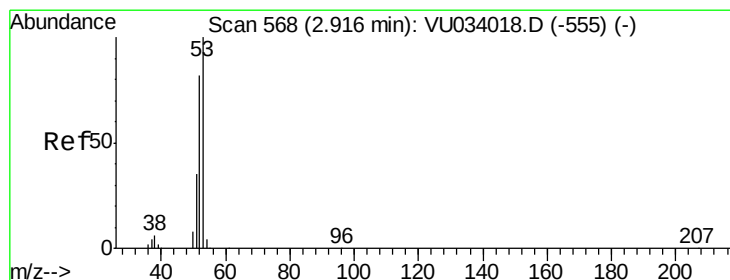
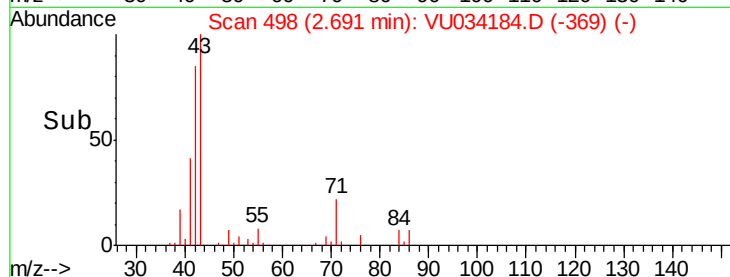
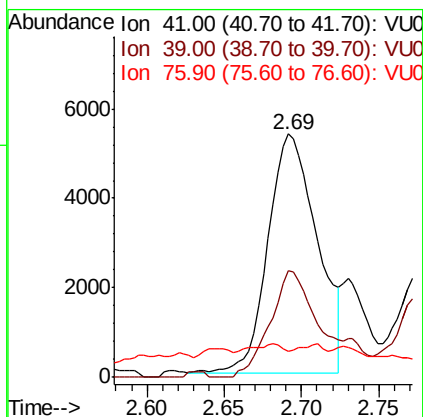
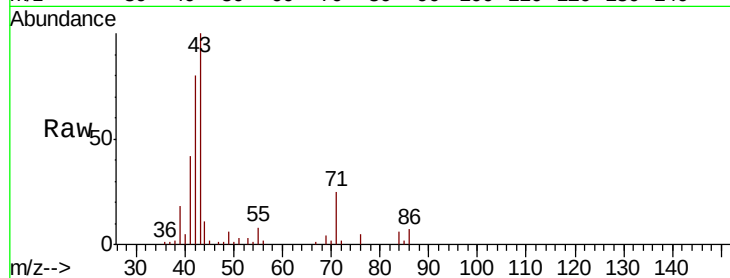




#14
Allvl chloride
Concen: 1.395 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.12 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

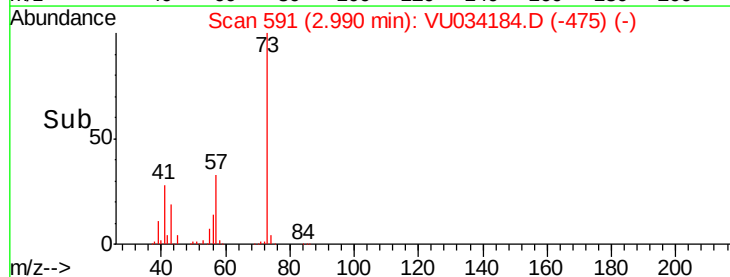
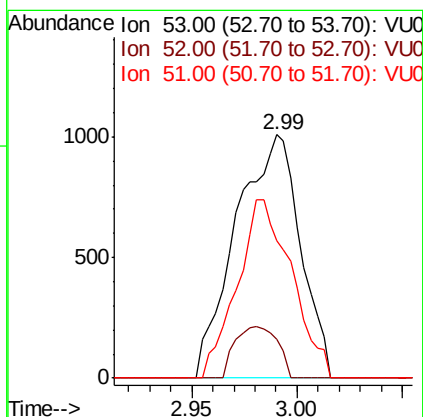
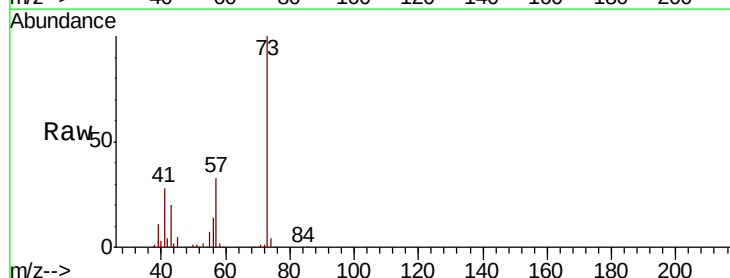
Instrument :
MSVOA_U
ClientSampleId :

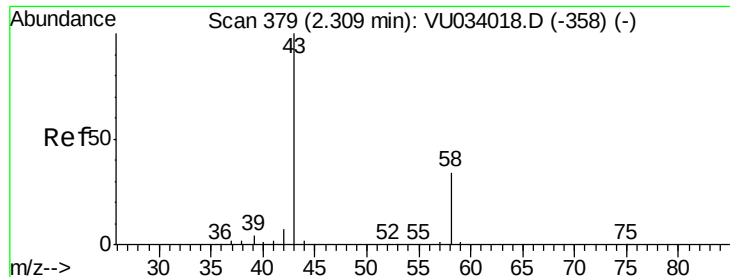
Tot Ion: 41 Resp: 11797
Ion Ratio Lower Upper
41 100
39 43.4 46.8 70.2#
76 0.0 26.6 40.0#



#15
Acrylonitrile
Concen: 0.701 ug/l
RT: 2.99 min Scan# 591
Delta R.T. 0.07 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Tgt Ion: 53 Resp: 2137
Ion Ratio Lower Upper
53 100
52 14.0 65.7 98.5#
51 62.0 27.9 41.9#





#16

Acetone

Concen: 4.644 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

Instrument :

MSVOA_U

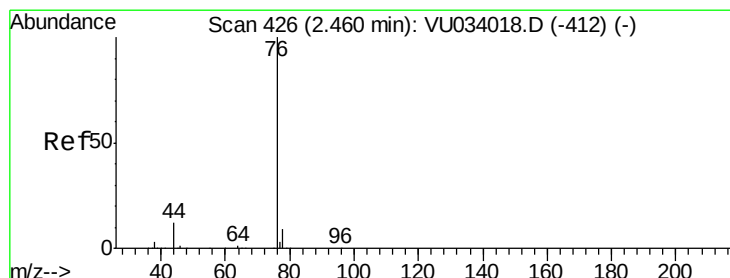
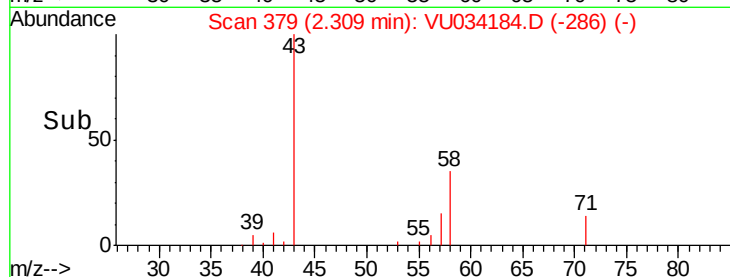
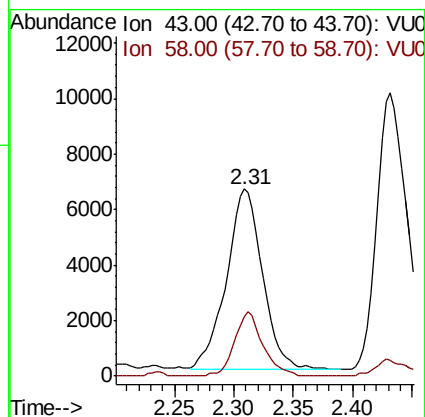
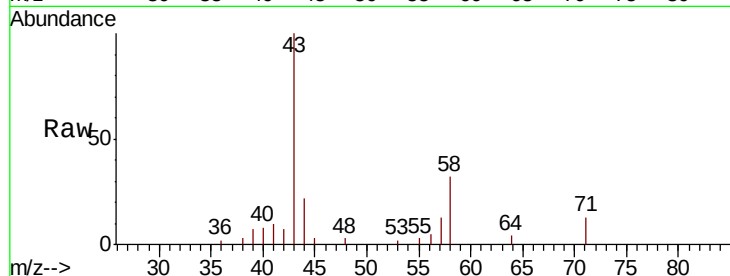
ClientSampleId :

Tot Ion: 43 Resp: 13644

Ion Ratio Lower Upper

43 100

58 32.8 26.8 40.2



#17

Carbon Disulfide

Concen: 0.213 ug/l

RT: 2.47 min Scan# 430

Delta R.T. 0.01 min

Lab File: VU034184.D

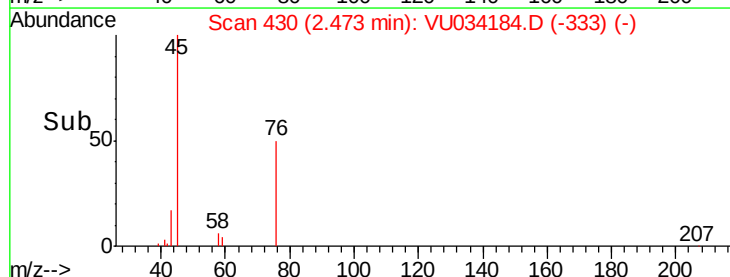
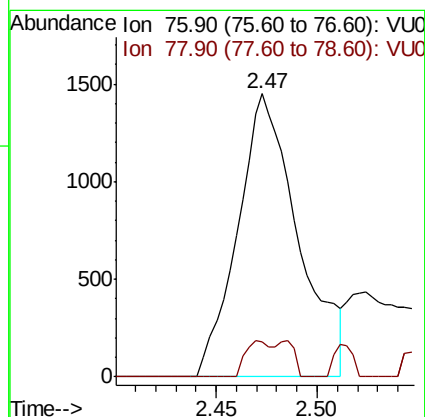
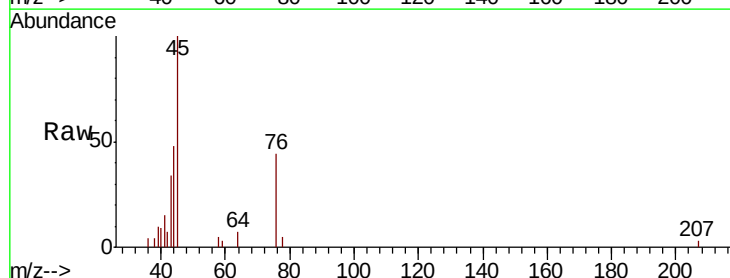
Acq: 01 Sep 2019 21:08

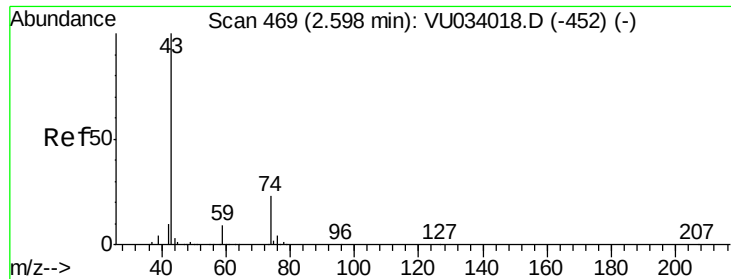
Tgt Ion: 76 Resp: 3033

Ion Ratio Lower Upper

76 100

78 12.4 7.1 10.7#

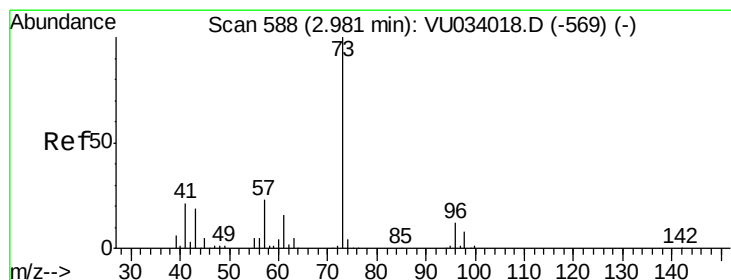
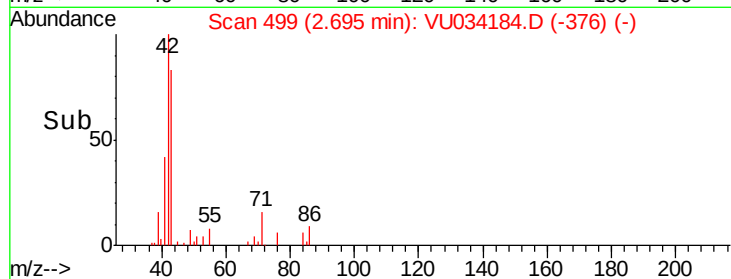
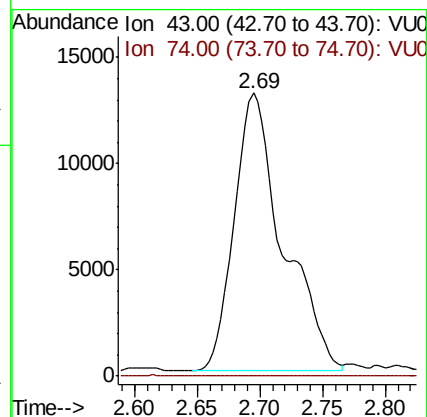
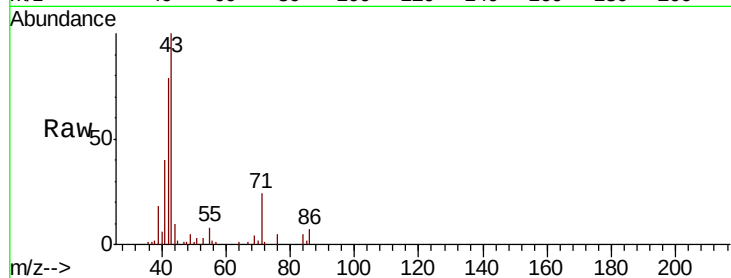




#18
Methvl Acetate
Concen: 4.655 ug/l
RT: 2.69 min Scan# 499
Delta R.T. 0.10 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

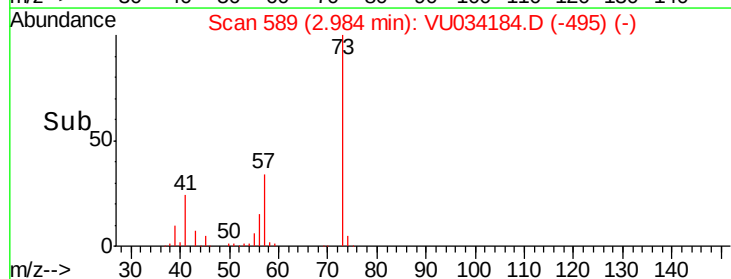
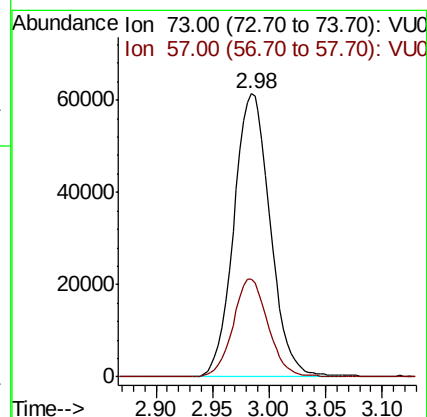
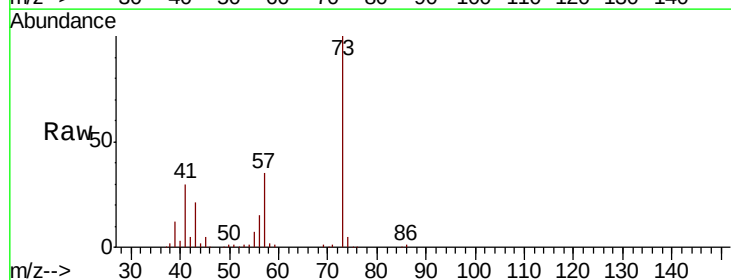
Instrument :
MSVOA_U
ClientSampled :

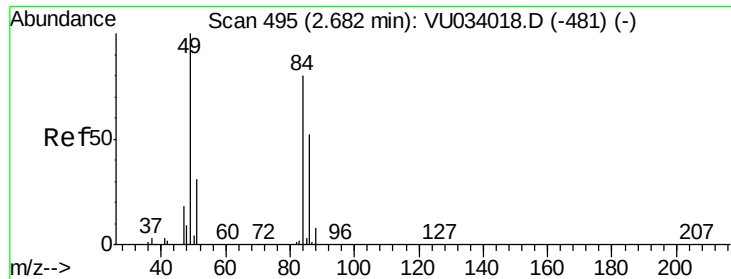
Tot Ion: 43 Resp: 35342
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#19
Methyl tert-butyl Ether
Concen: 9.330 ug/l
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Tgt Ion: 73 Resp: 137526
Ion Ratio Lower Upper
73 100
57 34.5 18.3 27.5#





#20

Methylene Chloride

Concen: 0.261 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 84 Resp: 1451

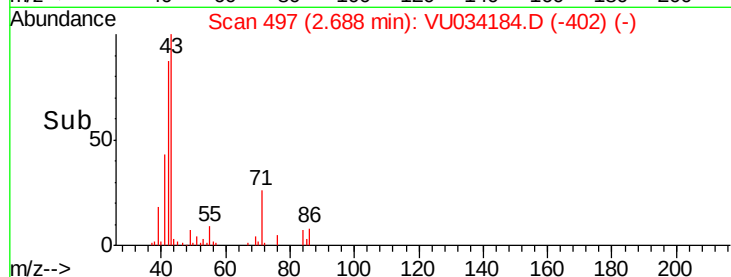
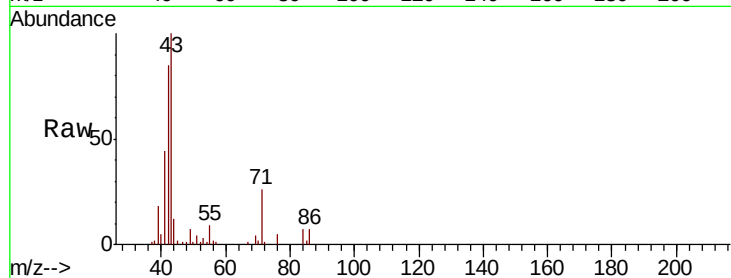
Ion Ratio Lower Upper

84 100

49 94.6 100.2 150.4#

51 56.3 30.8 46.2#

86 103.3 52.5 78.7#

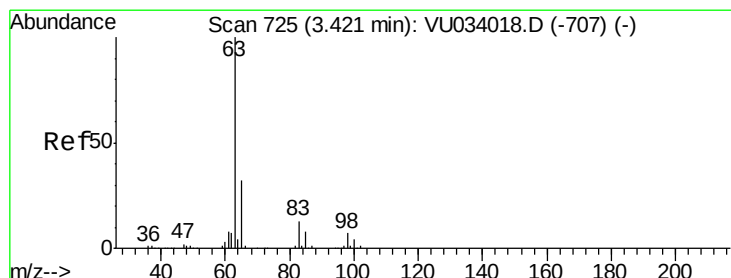
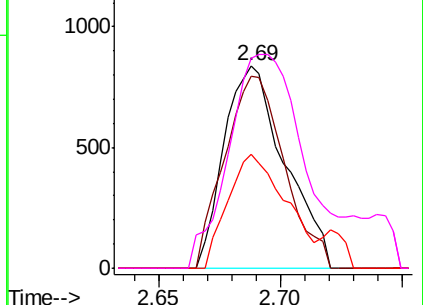


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#24

1,1-Dichloroethane

Concen: 0.585 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.01 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

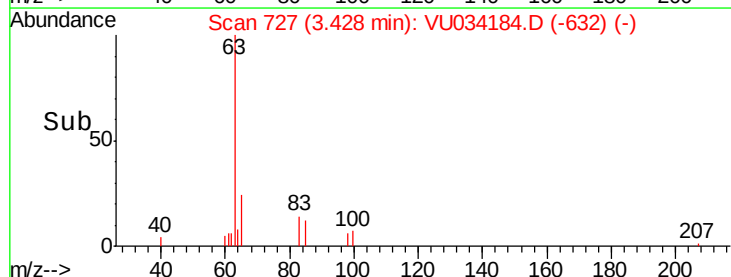
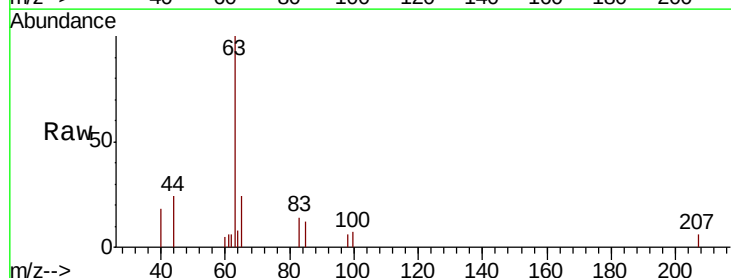
Tgt Ion: 63 Resp: 5349

Ion Ratio Lower Upper

63 100

98 5.8 3.3 9.8

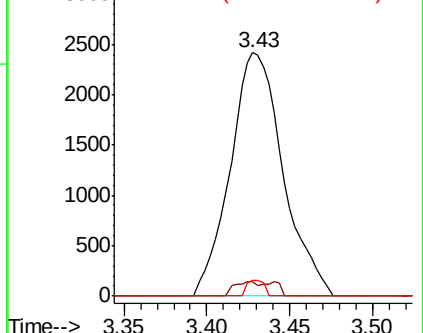
100 6.6 2.0 6.0#

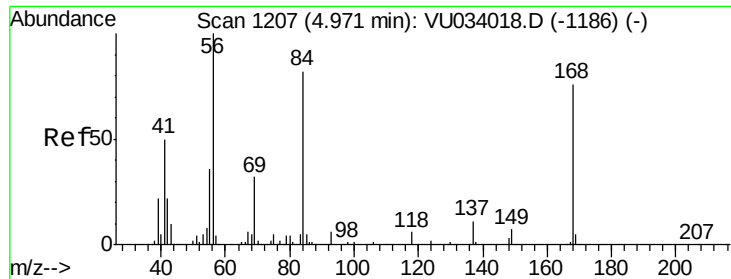


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

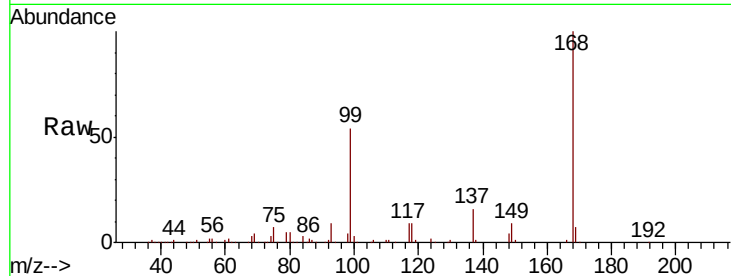




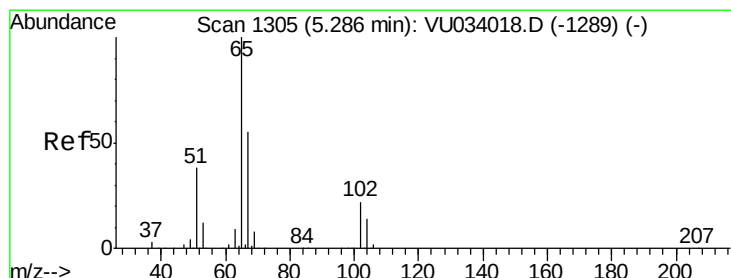
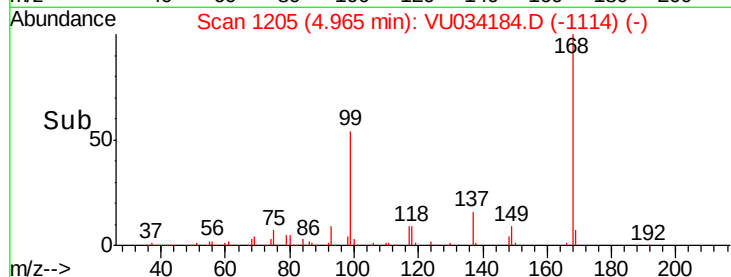
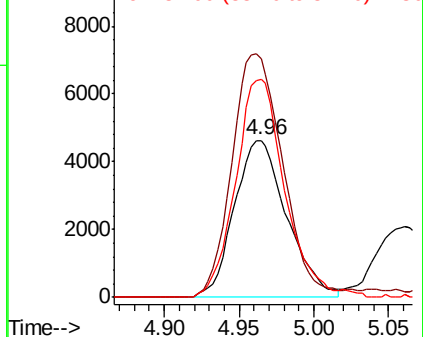
#31
Cyclohexane
Concen: 1.315 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
56	100		
69	151.5	25.4	38.0#
84	139.2	65.8	98.8#

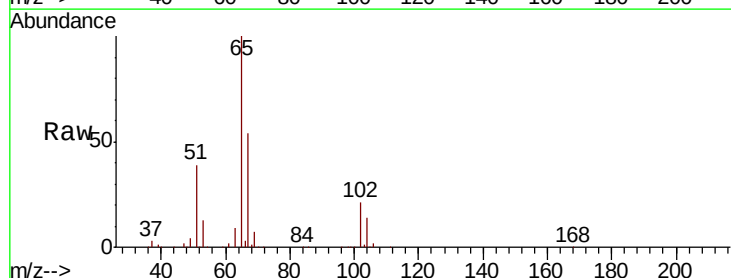


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

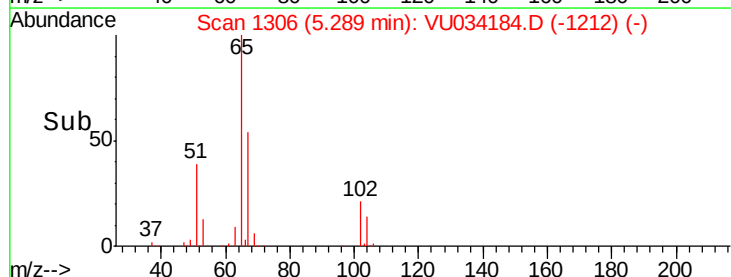
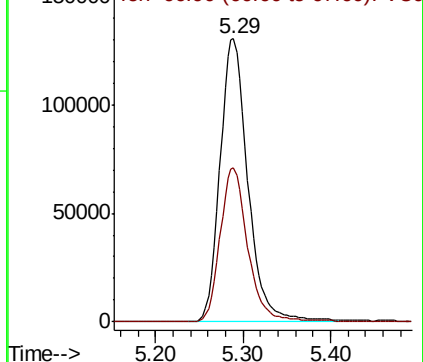


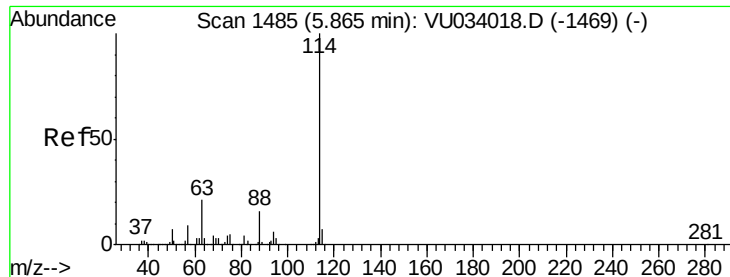
#33
1,2-Dichloroethane-d4
Concen: 50.223 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

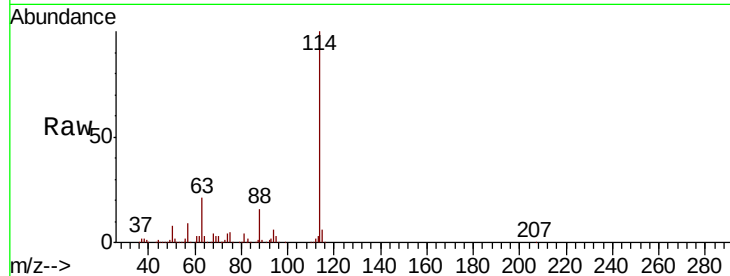




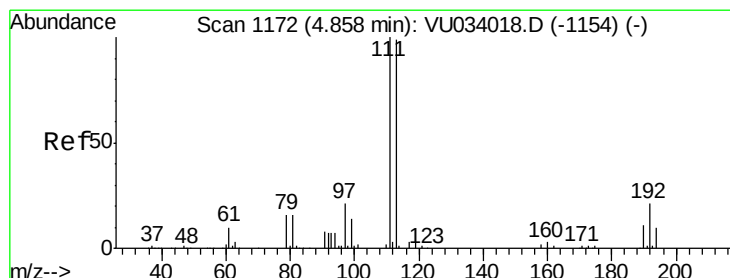
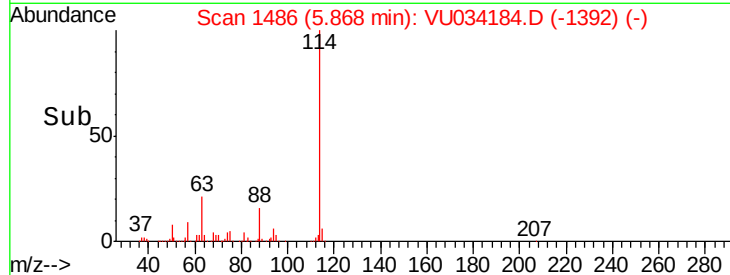
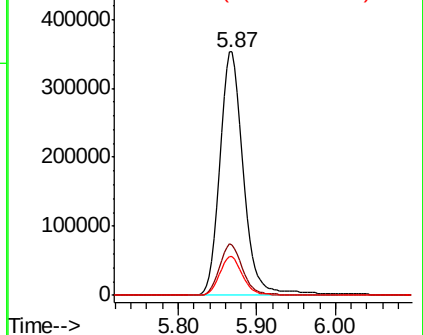
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 730709
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.0
 88 15.8 0.0 32.0

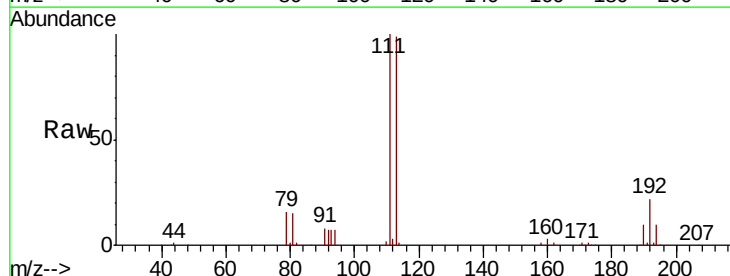


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

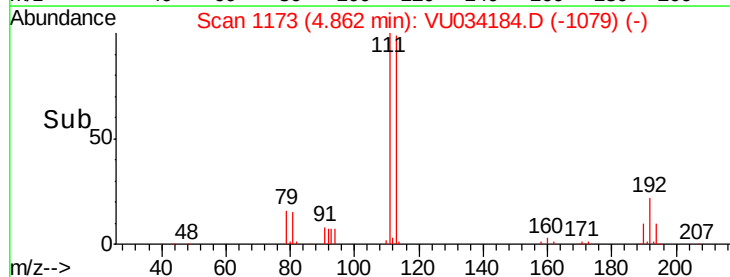
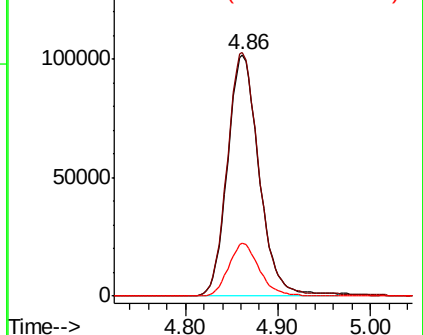


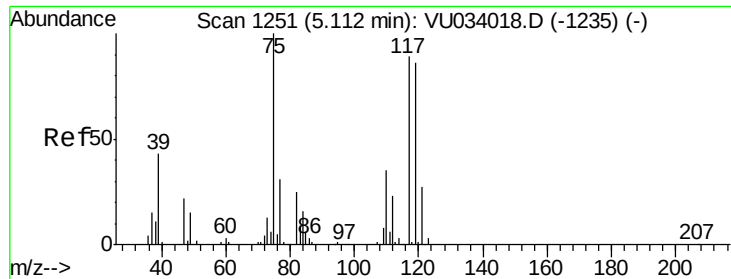
#35
 Dibromofluoromethane
 Concen: 47.583 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Tgt Ion:113 Resp: 241158
 Ion Ratio Lower Upper
 113 100
 111 100.7 81.7 122.5
 192 21.4 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

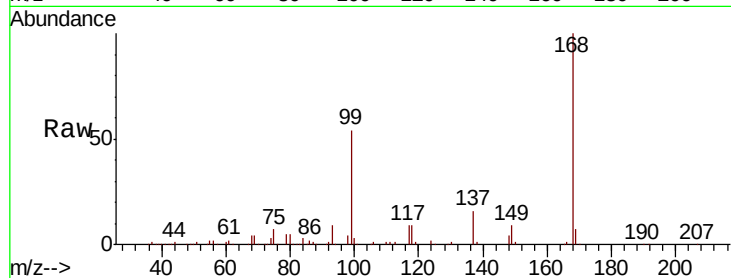




#36
 1,1-Dichloropropene
 Concen: 4.863 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.8	53.5#
77	0.0	25.0	37.4#

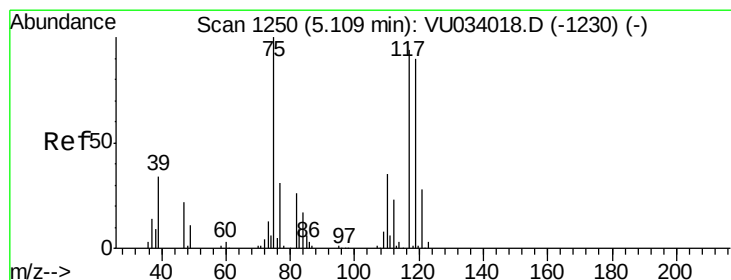
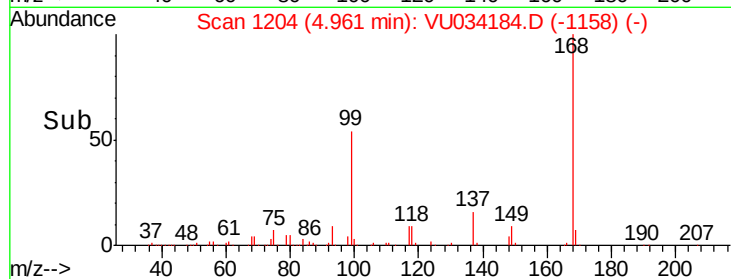
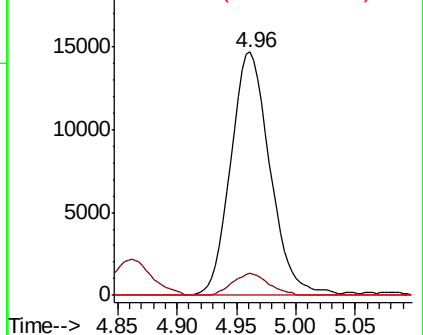


Abundance

Ion 74.90 (74.60 to 75.60): VU034184.D (-1235) (-)

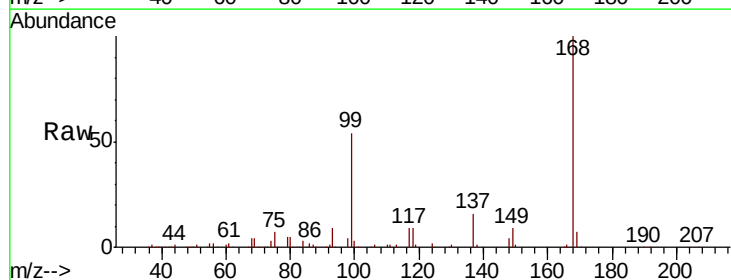
Ion 109.90 (109.60 to 110.60): VU034184.D (-1235) (-)

Ion 76.90 (76.60 to 77.60): VU034184.D (-1235) (-)



#38
 Carbon Tetrachloride
 Concen: 6.070 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.0	115.4#
121	0.0	23.9	35.9#

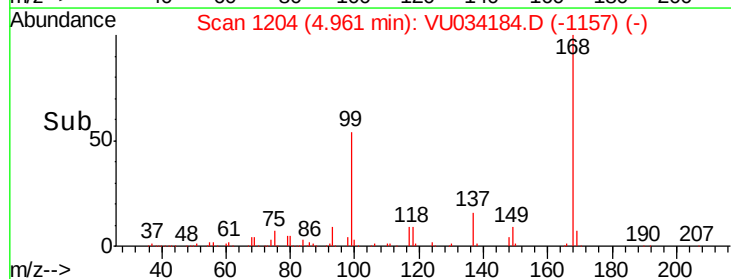
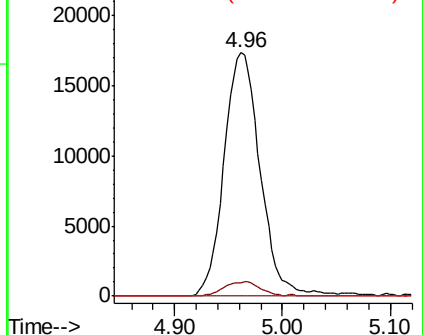


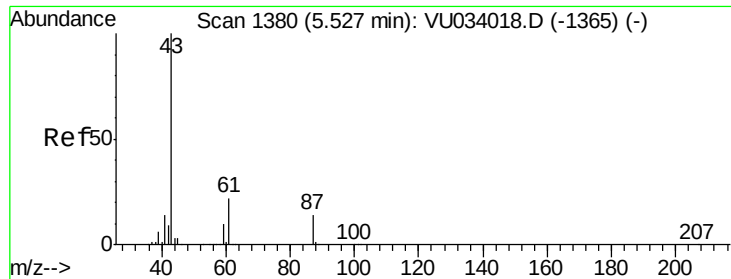
Abundance

Ion 116.80 (116.50 to 117.50): VU034184.D (-1157) (-)

Ion 118.80 (118.50 to 119.50): VU034184.D (-1157) (-)

Ion 120.80 (120.50 to 121.50): VU034184.D (-1157) (-)





#43

Isopropyl Acetate

Concen: 0.220 ug/l

RT: 5.51 min Scan# 1375

Delta R.T. -0.02 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

Instrument :

MSVOA_U

ClientSampleId :

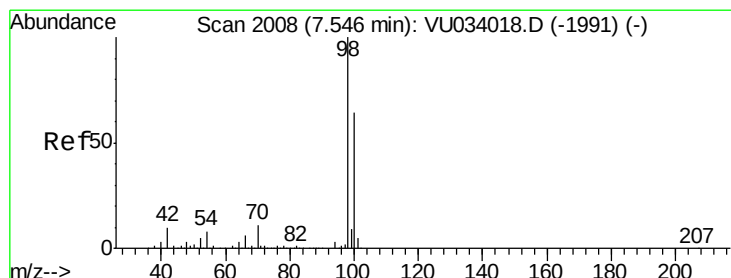
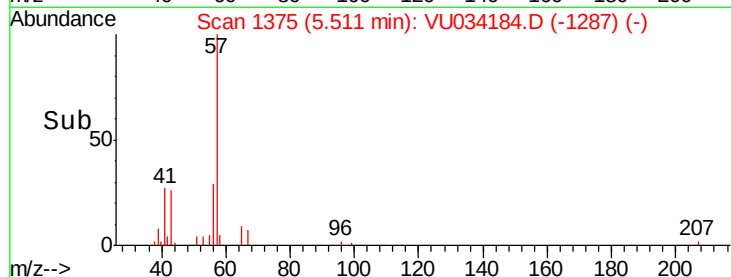
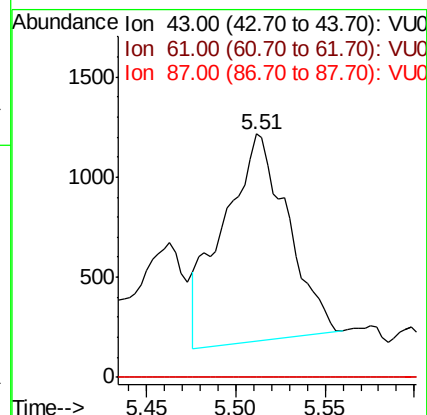
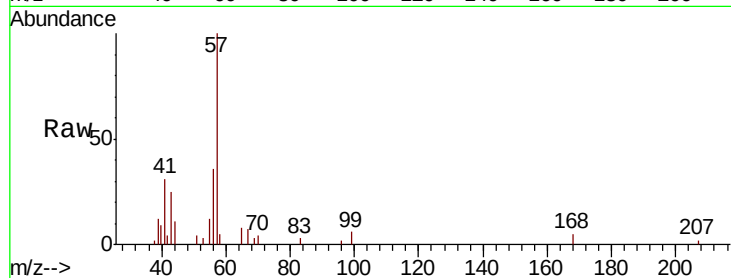
Tot Ion: 43 Resp: 2590

Ion Ratio Lower Upper

43 100

61 0.0 17.2 25.8#

87 0.0 10.8 16.2#



#50

Toluene-d8

Concen: 48.664 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034184.D

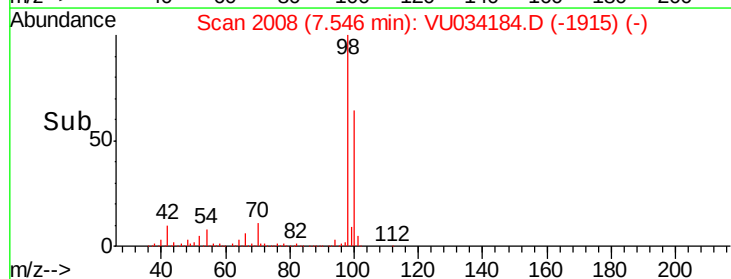
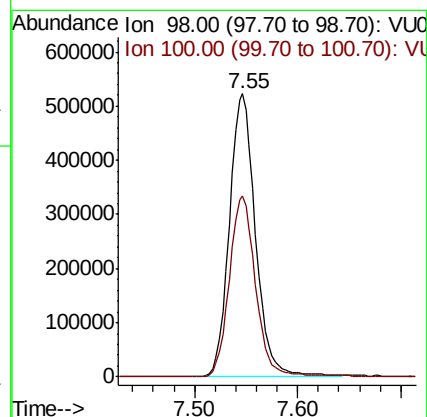
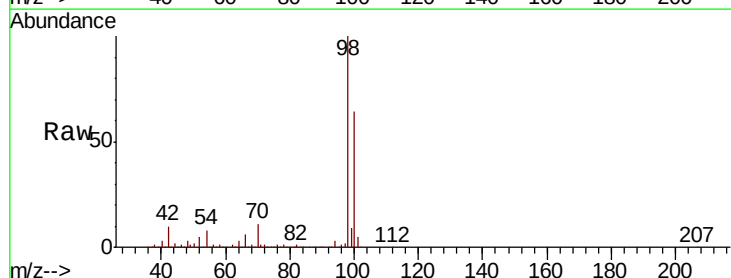
Acq: 01 Sep 2019 21:08

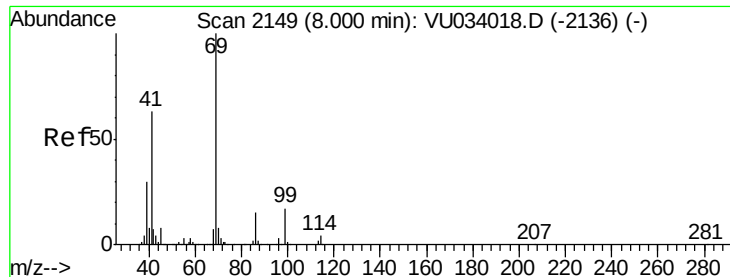
Tgt Ion: 98 Resp: 923490

Ion Ratio Lower Upper

98 100

100 64.6 50.3 75.5





#56

Ethyl methacrylate

Concen: 0.974 ug/l

RT: 8.01 min Scan# 2152

Delta R.T. 0.01 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

Instrument :

MSVOA_U

ClientSampleId :

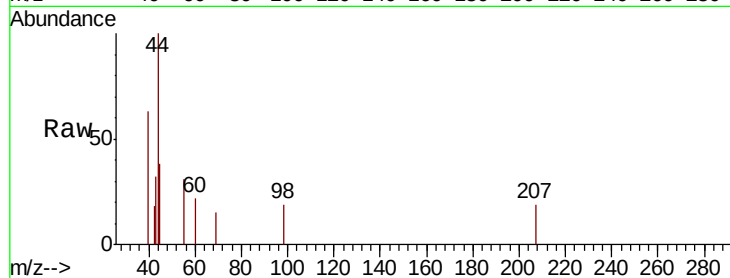
Tot Ion: 69 Resp: 20

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034184.D (-2152) (-)

Ion 41.00 (40.70 to 41.70): VU034184.D (-2152) (-)

Ion 39.00 (38.70 to 39.70): VU034184.D (-2152) (-)

8.01

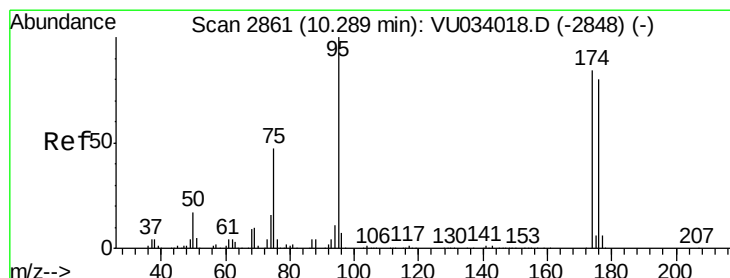
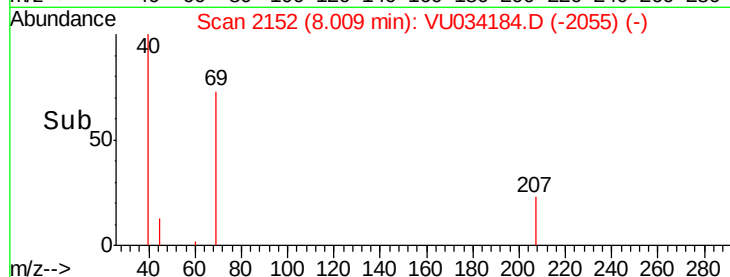
100

50

0

8.00 8.01 8.02 8.02

Time-->



#62

4-Bromofluorobenzene

Concen: 44.275 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034184.D

Acq: 01 Sep 2019 21:08

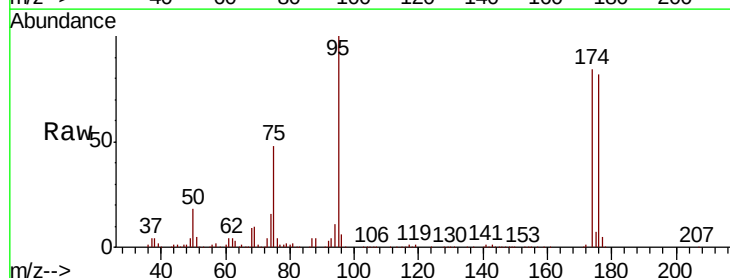
Tgt Ion: 95 Resp: 326833

Ion Ratio Lower Upper

95 100

174 83.7 0.0 168.8

176 80.9 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034184.D (-2861) (-)

Ion 173.80 (173.50 to 174.50): VU034184.D (-2861) (-)

Ion 175.80 (175.50 to 176.50): VU034184.D (-2861) (-)

10.29

250000

200000

150000

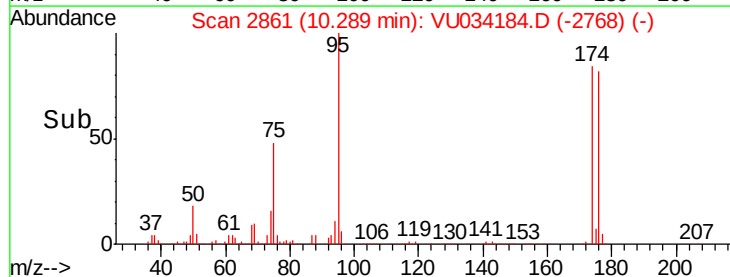
100000

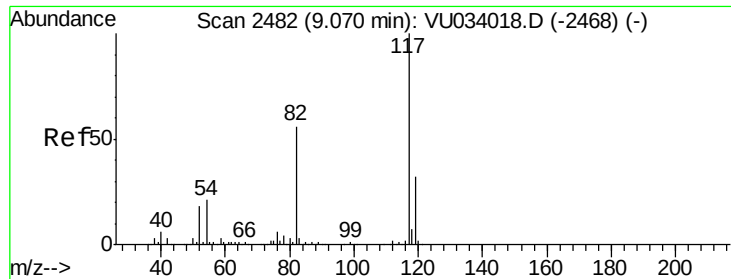
50000

0

10.20 10.30 10.40

Time-->

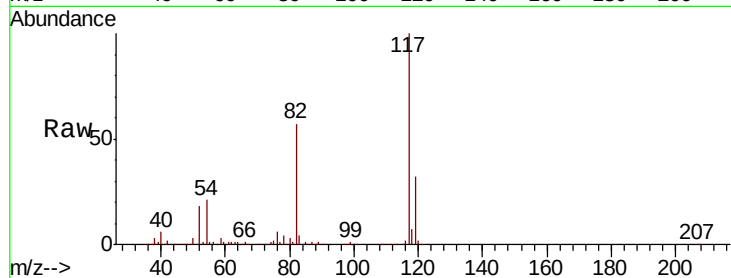




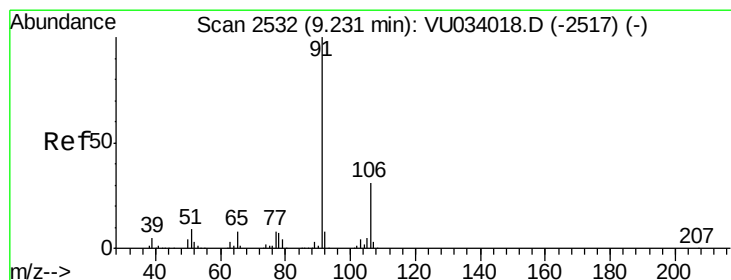
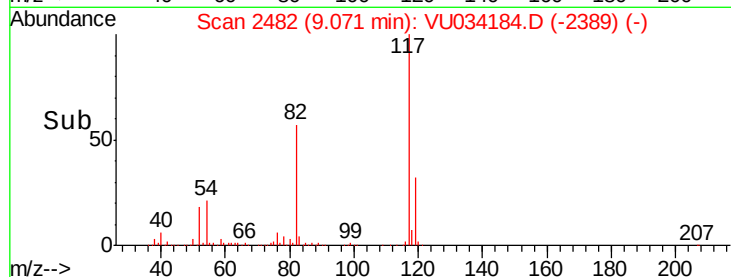
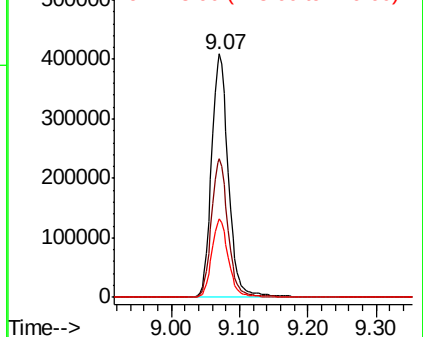
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 706434
Ion Ratio Lower Upper
117 100
82 57.0 45.1 67.7
119 32.1 25.4 38.0

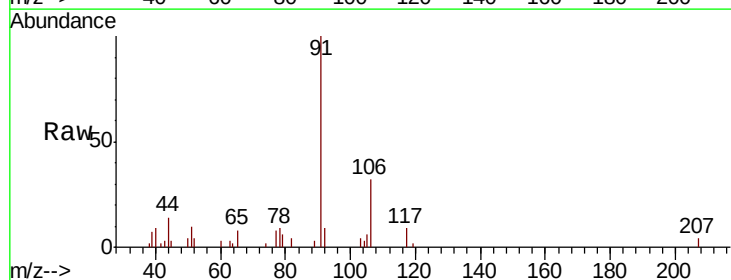


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

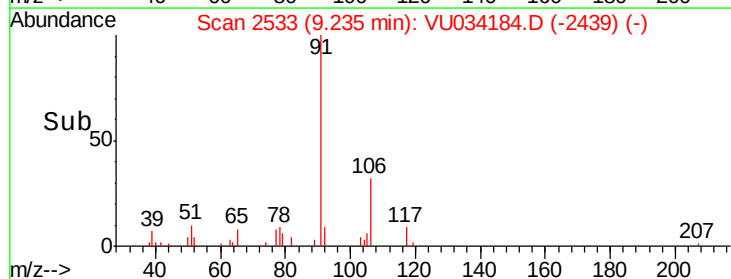
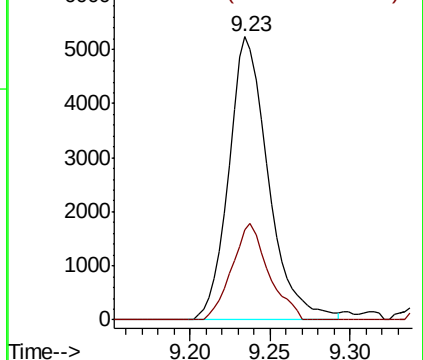


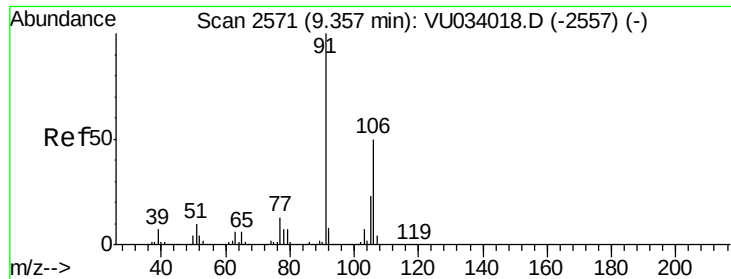
#67
Ethyl Benzene
Concen: 0.358 ug/l
RT: 9.23 min Scan# 2533
Delta R.T. 0.00 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Tgt Ion: 91 Resp: 8834
Ion Ratio Lower Upper
91 100
106 31.9 24.9 37.3



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 106.00 (105.70 to 106.70): V

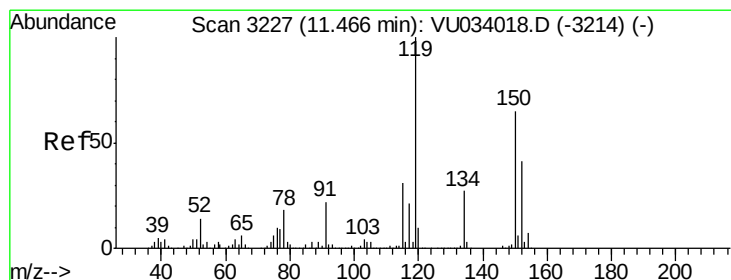
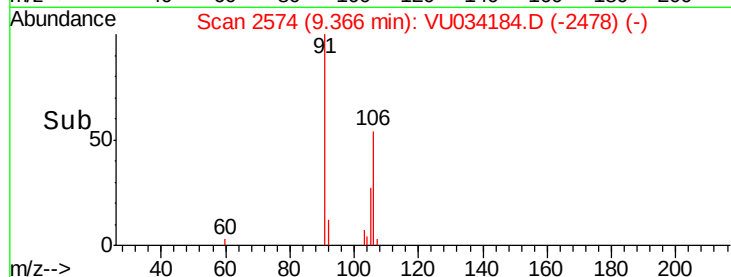
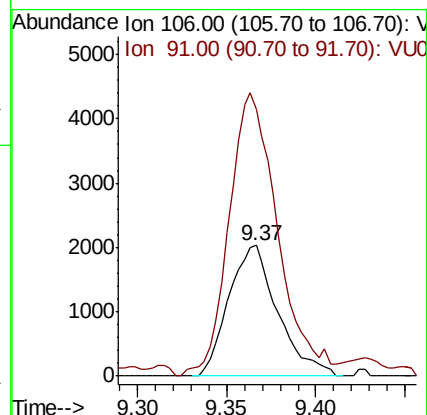
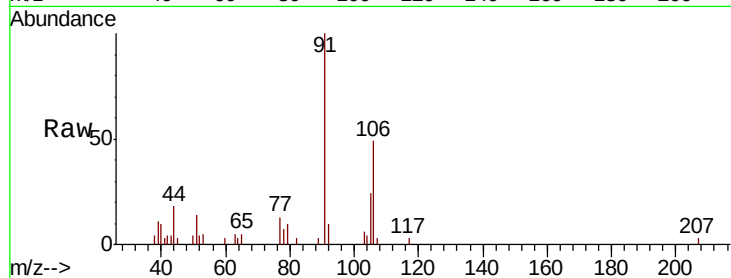




#68
m/p-Xvlenes
Concen: 0.415 ug/l
RT: 9.37 min Scan# 2574
Delta R.T. 0.01 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

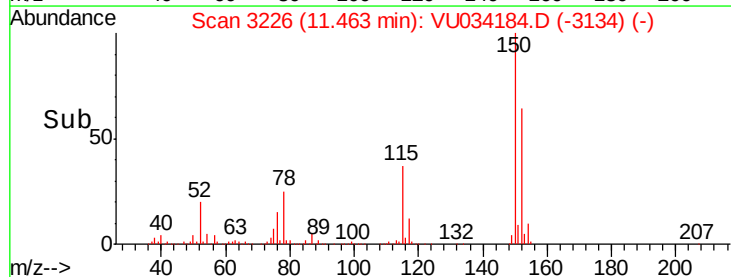
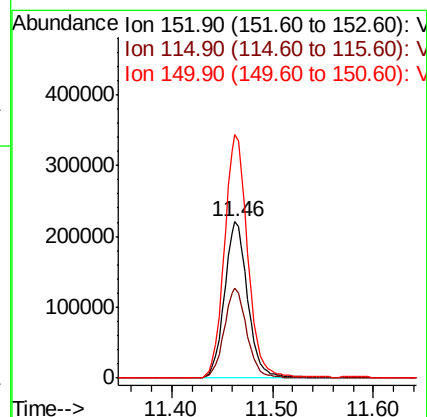
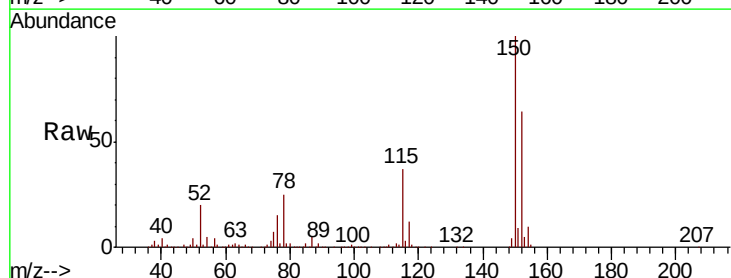
Instrument :
MSVOA_U
ClientSampleId :

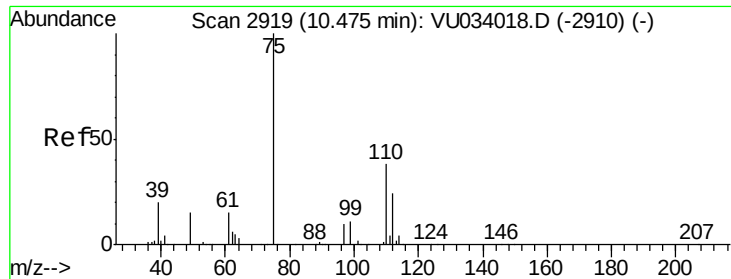
Tot Ion:106 Resp: 3887
Ion Ratio Lower Upper
106 100
91 215.6 161.6 242.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034184.D
Acq: 01 Sep 2019 21:08

Tgt Ion:152 Resp: 355495
Ion Ratio Lower Upper
152 100
115 56.4 41.1 123.3
150 156.3 0.0 348.8

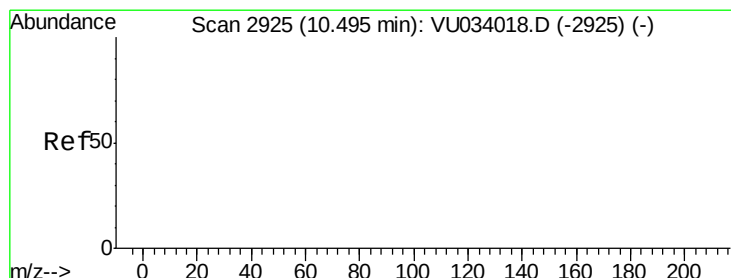
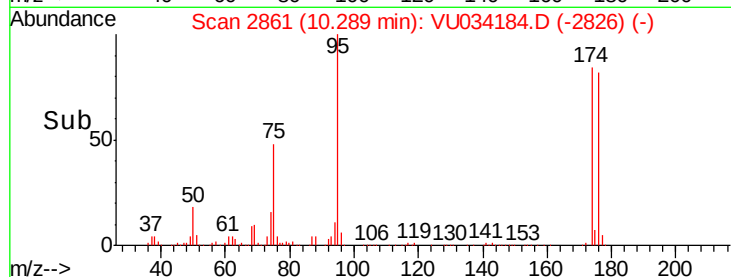
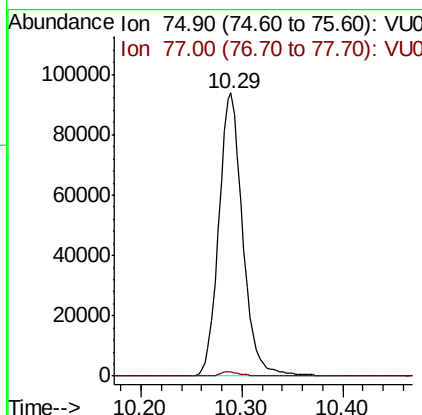
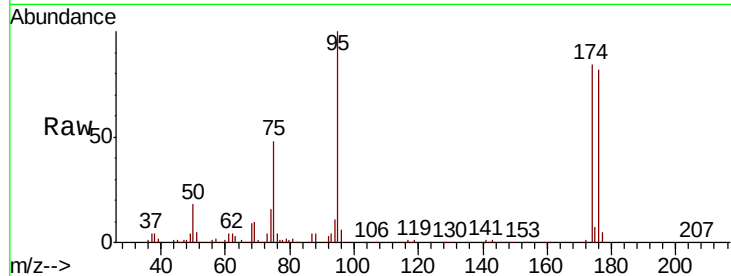




#76
 1,2,3-Trichloropropane
 Concen: 19.427 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

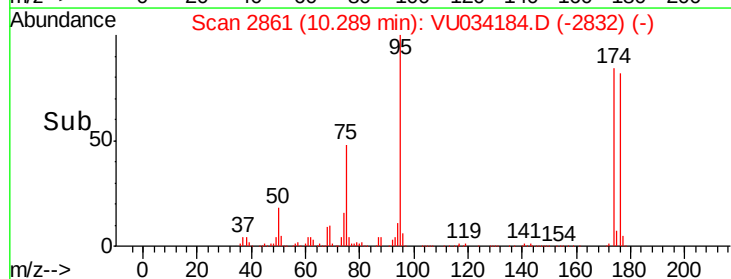
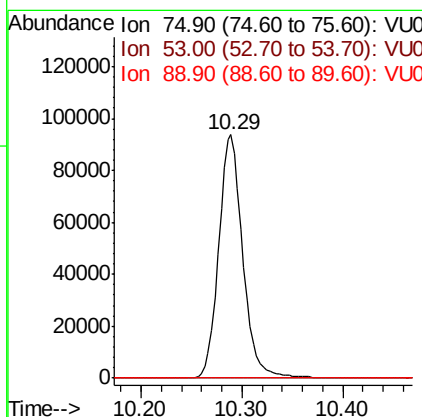
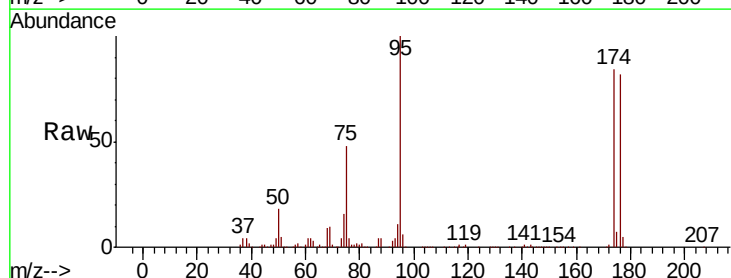
Instrument :
 MSVOA_U
 ClientSampled :

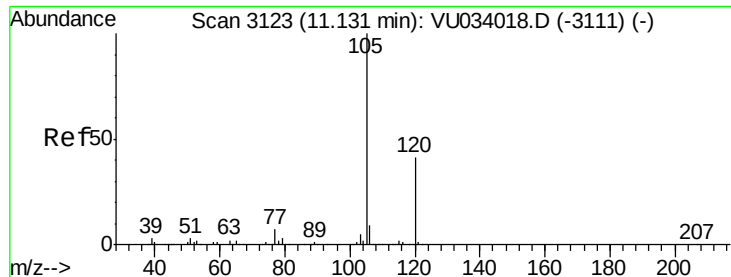
Tot Ion: 75 Resp: 155650
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.414 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Tgt Ion: 75 Resp: 155650
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

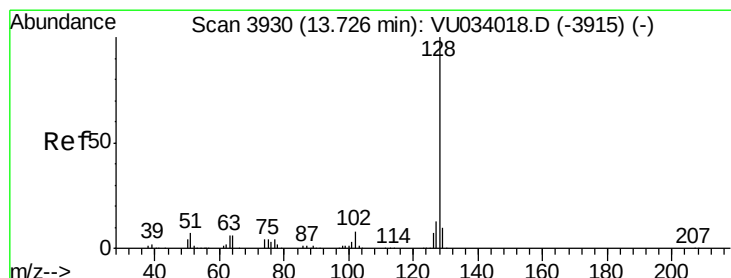
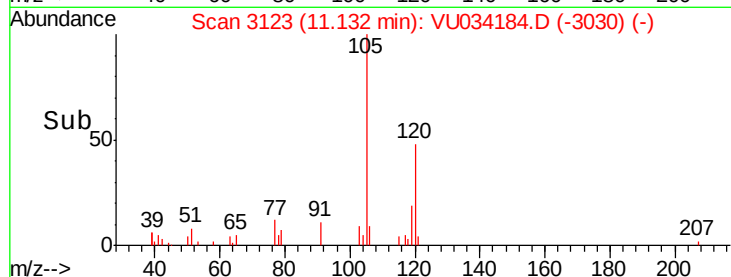
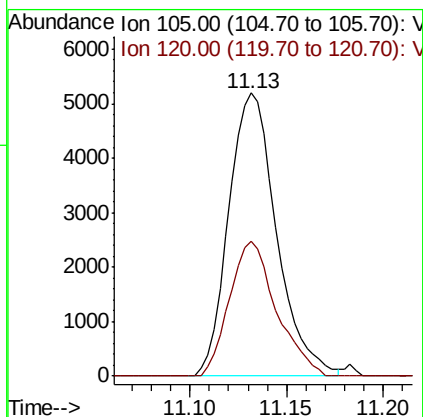
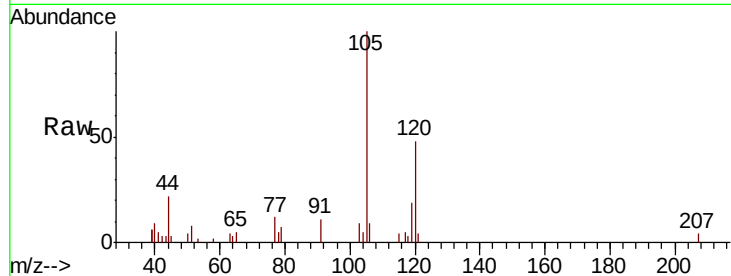




#84
 1,2,4-Trimethylbenzene
 Concen: 0.445 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. 0.00 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:105 Resp: 8947
 Ion Ratio Lower Upper
 105 100
 120 46.5 22.6 67.8



#95
 Naphthalene
 Concen: 1.892 ug/l
 RT: 13.76 min Scan# 3941
 Delta R.T. 0.04 min
 Lab File: VU034184.D
 Acq: 01 Sep 2019 21:08

Tgt Ion:128 Resp: 2350
 Ion Ratio Lower Upper
 128 100
 127 8.6 10.2 15.4#
 129 6.3 8.4 12.6#

