

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034188.D
 Acq On : 02 Sep 2019 09:46
 Operator : JC/SP
 Sample : VU0903WBL01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0903WBL01

Quant Time: Sep 03 05:50:46 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

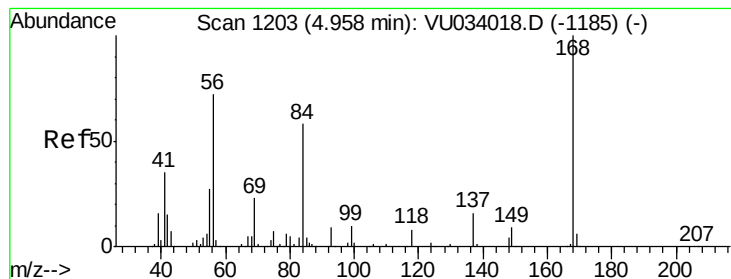
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	433241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	687784	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	655091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	300394	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	270640	48.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.50%	
35) Dibromofluoromethane	4.86	113	233905	49.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.06%	
50) Toluene-d8	7.55	98	870730	48.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	10.29	95	291718	41.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	83.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2182	Below Cal		97
5) Bromomethane	1.62	94	2124	Below Cal		85
10) Methyl Iodide	2.41	142	2141	0.355	ug/l #	83
11) Tert butyl alcohol	2.81	59	675	0.527	ug/l #	73
13) Acrolein	2.18	56	215	0.399	ug/l #	27
16) Acetone	2.31	43	2535	0.895	ug/l	97
18) Methyl Acetate	2.61	43	5303	0.724	ug/l	100
31) Cyclohexane	4.95	56	7512	0.906	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31341	4.818	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40226	6.406	ug/l #	16
49) 1,4-Dioxane	6.62	88	382	2.851	ug/l #	54
51) 4-Methyl-2-Pentanone	7.45	43	6020	0.787	ug/l	93
56) Ethyl methacrylate	8.01	69	182	0.993	ug/l #	66
59) 2-Hexanone	8.36	43	4385	0.759	ug/l #	56
76) 1,2,3-Trichloropropane	10.29	75	139421	20.593	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	139421	69.341	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	1725	1.372	ug/l	92
94) Hexachlorobutadiene	13.67	225	893	0.248	ug/l	93
95) Naphthalene	13.75	128	11734	2.393	ug/l	97
96) 1,2,3-Trichlorobenzene	13.99	180	2280	0.387	ug/l	78

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

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ALS Vial : 3 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034188.D

Acq: 02 Sep 2019 09:46

Instrument :

MSVOA_U

ClientSampleId :

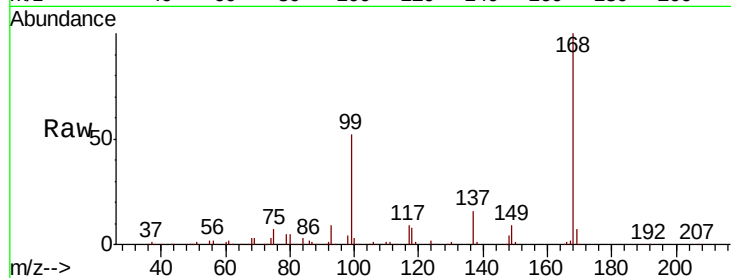
VU0903WBL01

Tgt Ion:168 Resp: 433241

Ion Ratio Lower Upper

168 100

99 52.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034188.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034188.D (-1185) (-)

4.96

200000

150000

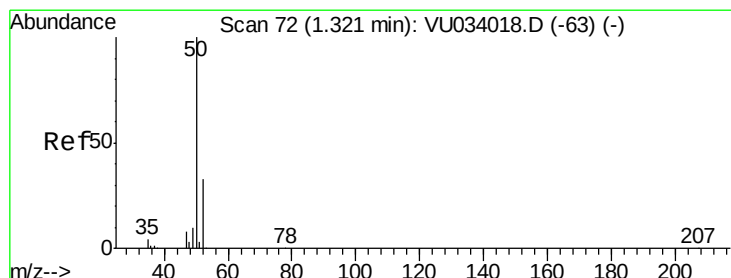
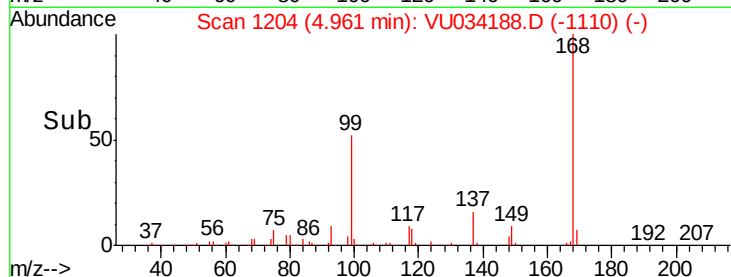
100000

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: VU034188.D

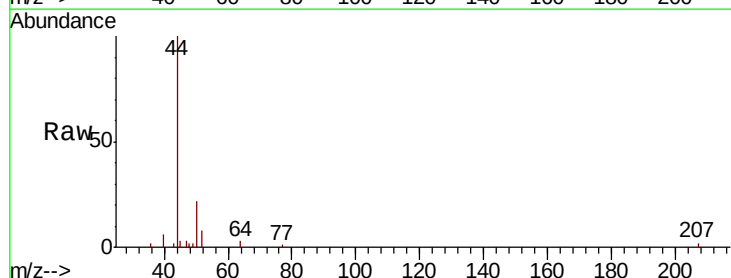
Acq: 02 Sep 2019 09:46

Tgt Ion: 50 Resp: 2182

Ion Ratio Lower Upper

50 100

52 34.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034188.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034188.D (-63) (-)

1.32

1500

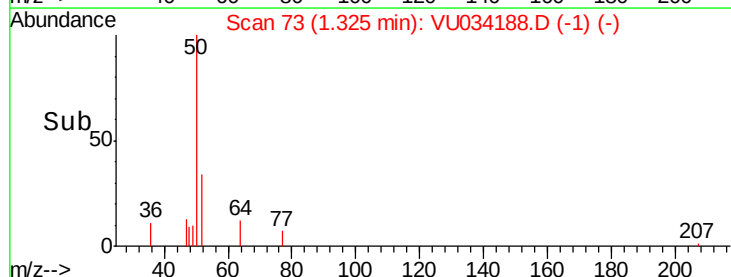
1000

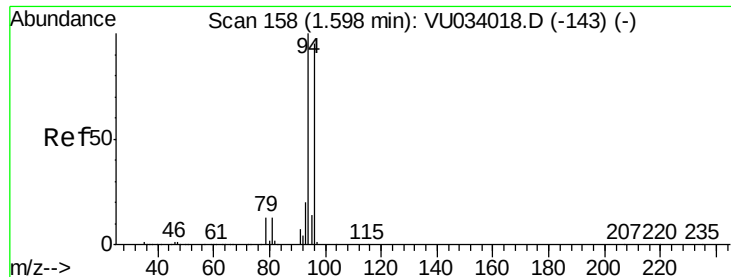
500

0

1.28 1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 166

Delta R.T. 0.03 min

Lab File: VU034188.D

Acq: 02 Sep 2019 09:46

Instrument :

MSVOA_U

ClientSampleId :

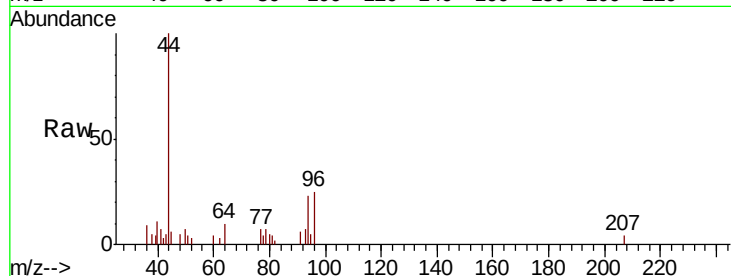
VU0903WBL01

Tgt Ion: 94 Resp: 2124

Ion Ratio Lower Upper

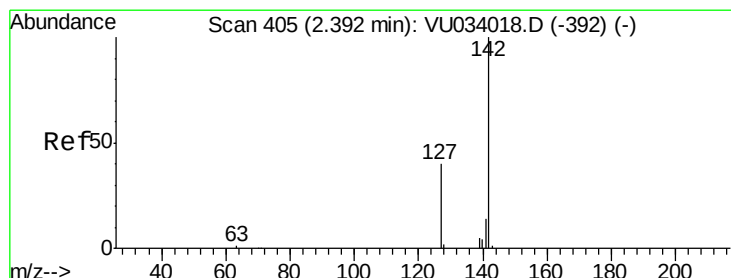
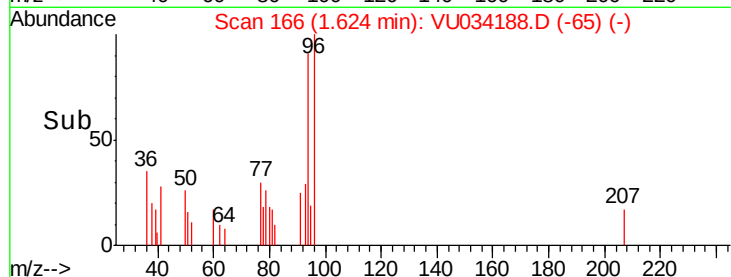
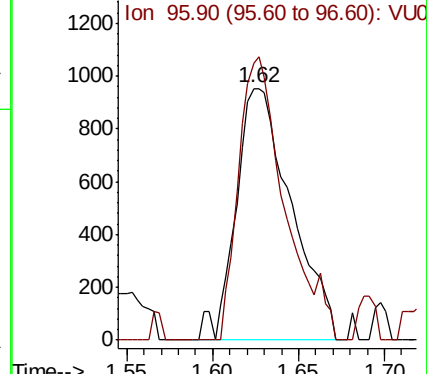
94 100

96 109.9 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034188.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VU034188.D (-143) (-)



#10

Methyl Iodide

Concen: 0.355 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034188.D

Acq: 02 Sep 2019 09:46

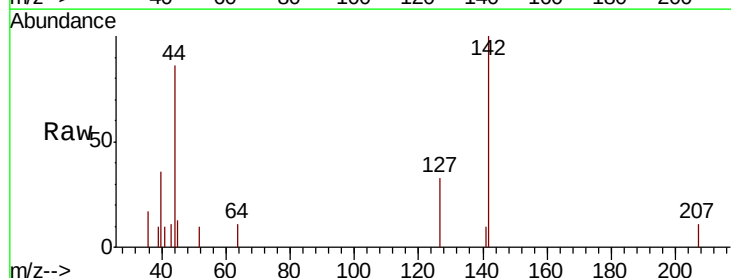
Tgt Ion: 142 Resp: 2141

Ion Ratio Lower Upper

142 100

127 31.5 32.6 48.8#

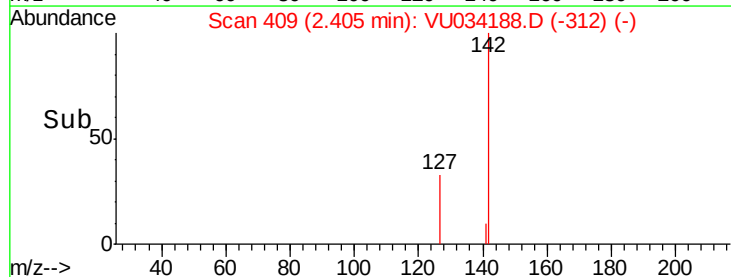
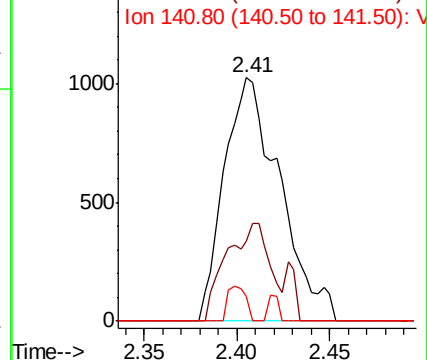
141 4.7 11.3 16.9#

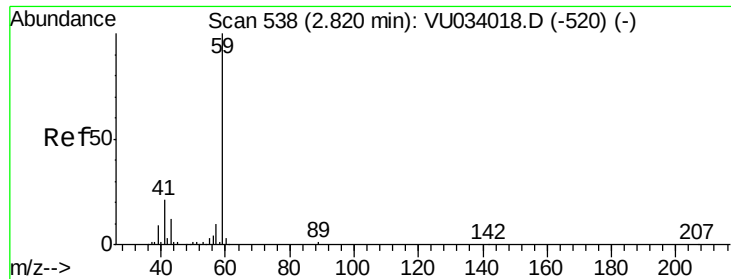


Abundance Ion 141.80 (141.50 to 142.50): VU034188.D (-392) (-)

Ion 126.80 (126.50 to 127.50): VU034188.D (-392) (-)

Ion 140.80 (140.50 to 141.50): VU034188.D (-392) (-)

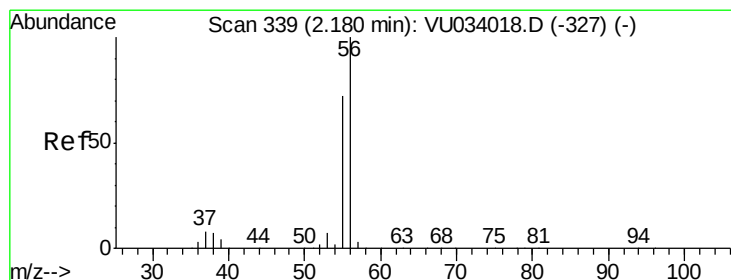
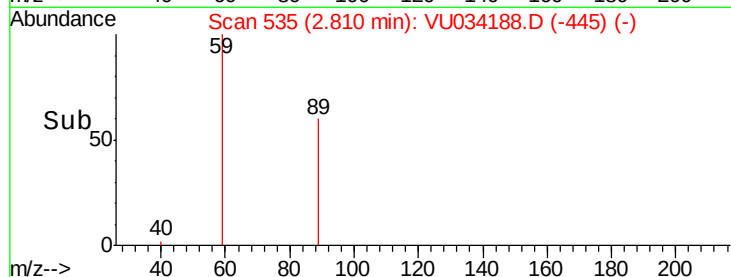
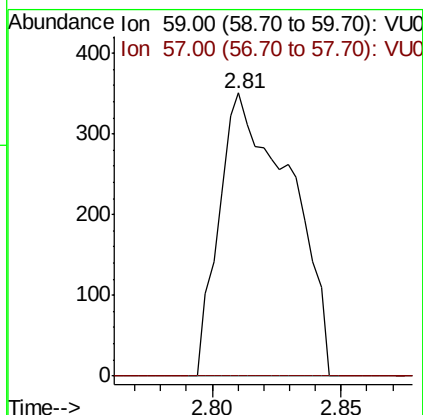
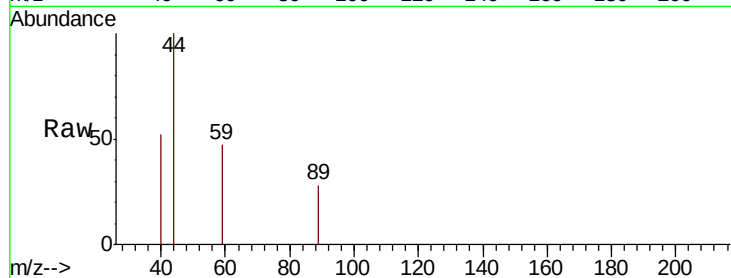




#11
Tert butyl alcohol
Concen: 0.527 ug/l
RT: 2.81 min Scan# 535
Delta R.T. -0.01 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

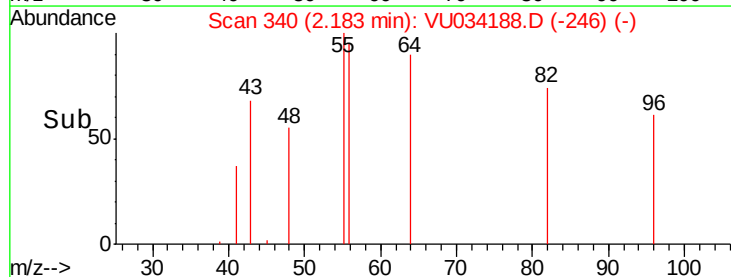
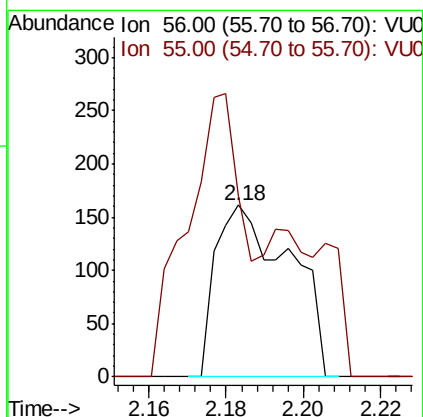
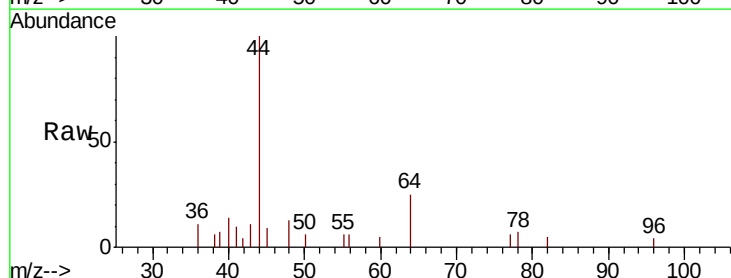
Instrument :
MSVOA_U
ClientSampleId :
VU0903WBL01

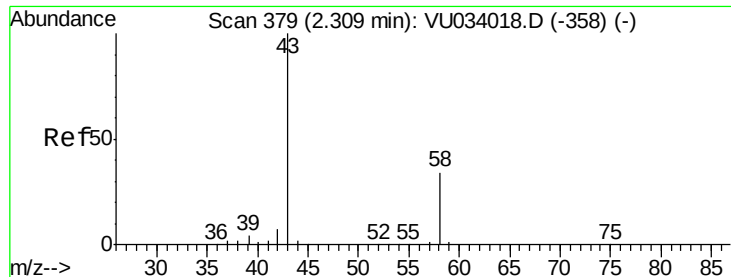
Tgt Ion: 59 Resp: 675
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: 0.399 ug/l
RT: 2.18 min Scan# 340
Delta R.T. 0.00 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Tgt Ion: 56 Resp: 215
Ion Ratio Lower Upper
56 100
55 132.1 57.1 85.7#





#16

Acetone

Concen: 0.895 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034188.D

Acq: 02 Sep 2019 09:46

Instrument :

MSVOA_U

ClientSampleId :

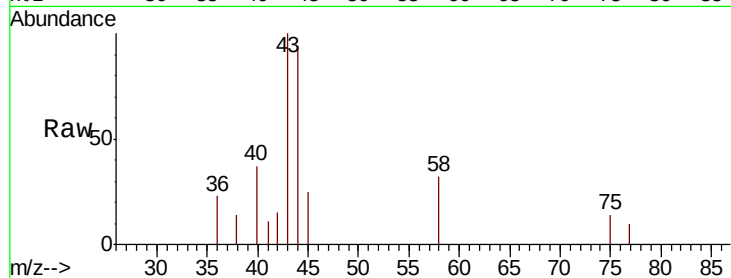
VU0903WBL01

Tgt Ion: 43 Resp: 2535

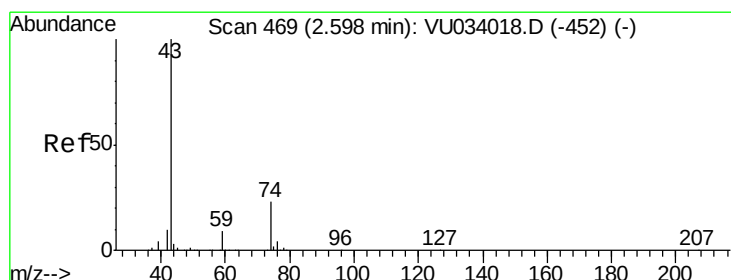
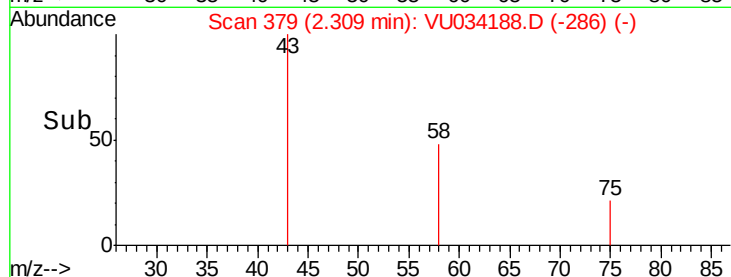
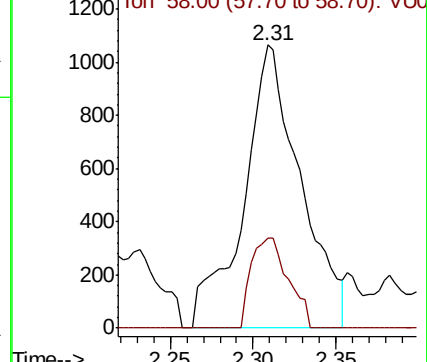
Ion Ratio Lower Upper

43 100

58 31.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034188.D (-358) (-)



#18

Methyl Acetate

Concen: 0.724 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034188.D

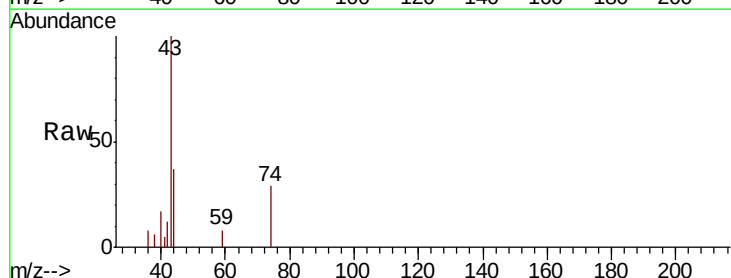
Acq: 02 Sep 2019 09:46

Tgt Ion: 43 Resp: 5303

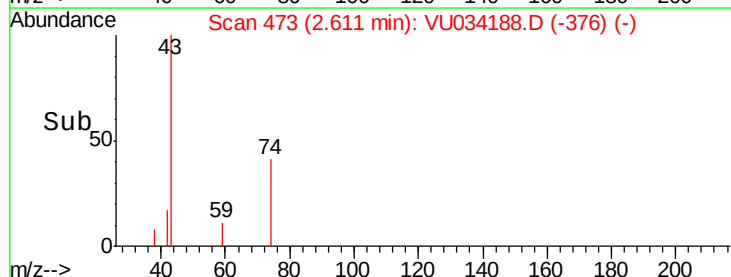
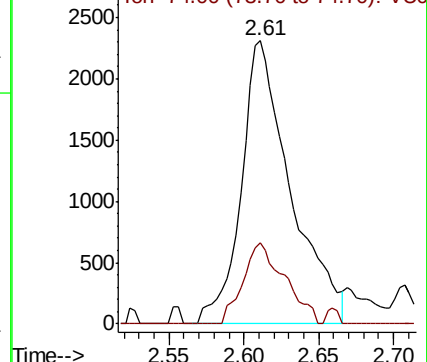
Ion Ratio Lower Upper

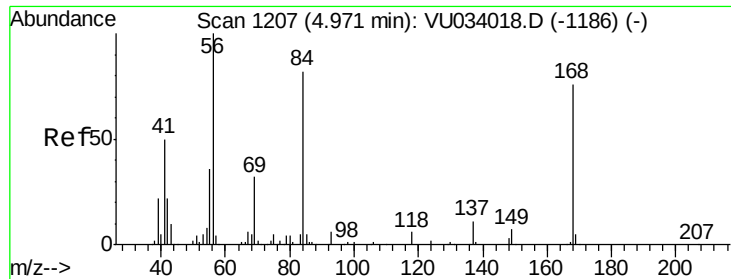
43 100

74 24.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034188.D (-452) (-)

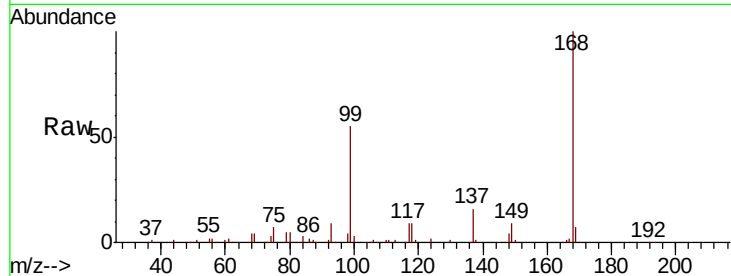




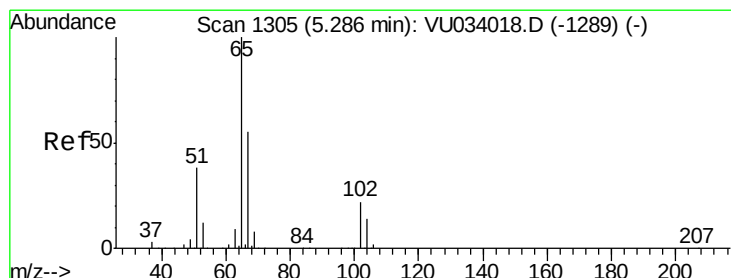
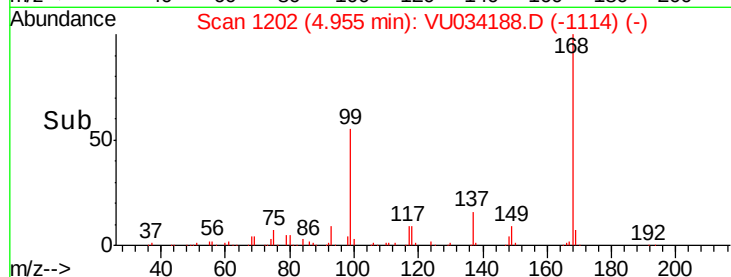
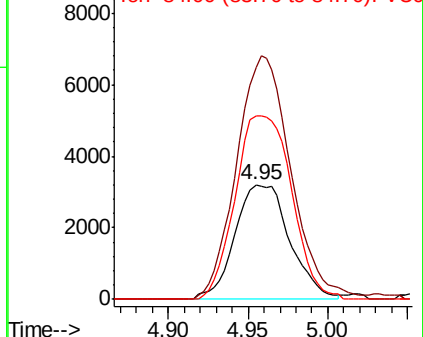
#31
Cyclohexane
Concen: 0.906 ug/l
RT: 4.95 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Instrument :
MSVOA_U
ClientSampleId :
VU0903WBL01

Tgt Ion: 56 Resp: 7512
Ion Ratio Lower Upper
56 100
69 203.4 25.4 38.0#
84 160.9 65.8 98.8#

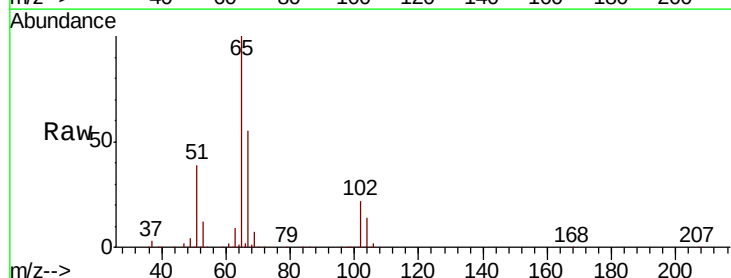


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

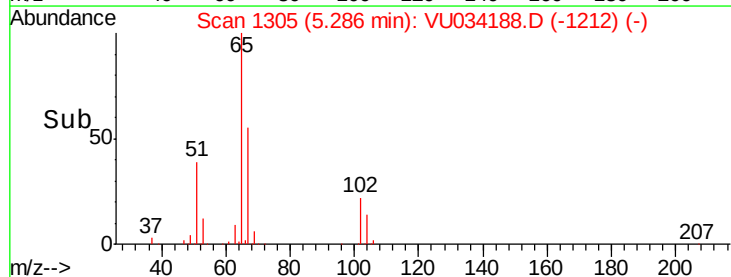
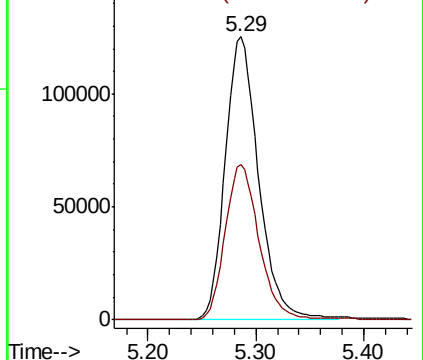


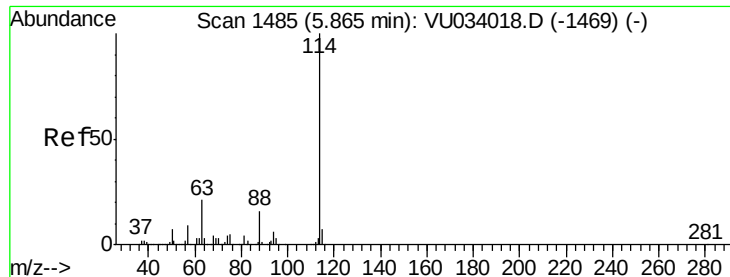
#33
1,2-Dichloroethane-d4
Concen: 48.753 ug/l
RT: 5.29 min Scan# 1305
Delta R.T. 0.00 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Tgt Ion: 65 Resp: 270640
Ion Ratio Lower Upper
65 100
67 55.6 0.0 110.6



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

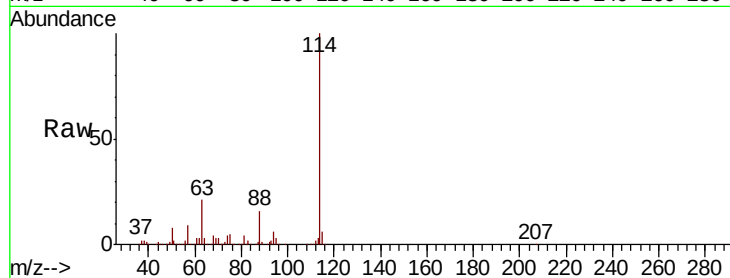




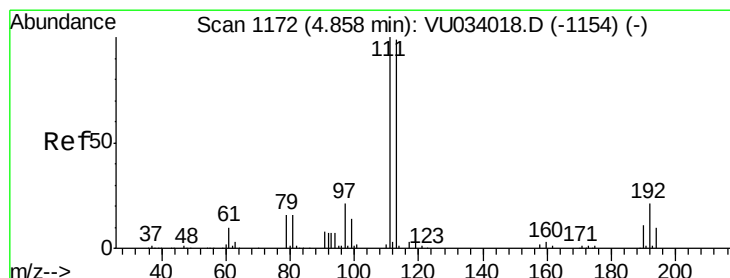
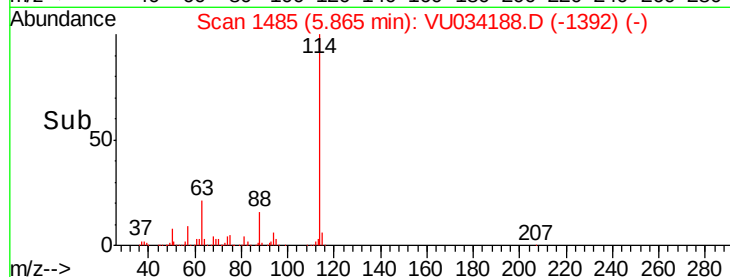
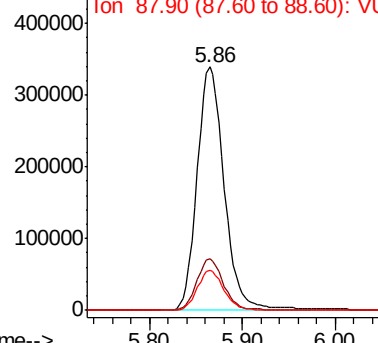
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0903WBL01

Tgt Ion:	114	Resp:	687784
Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.0
88	16.5	0.0	32.0

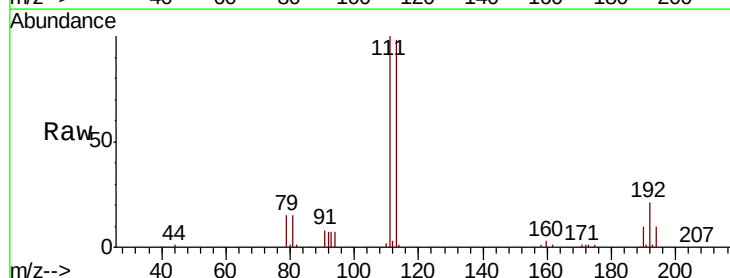


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

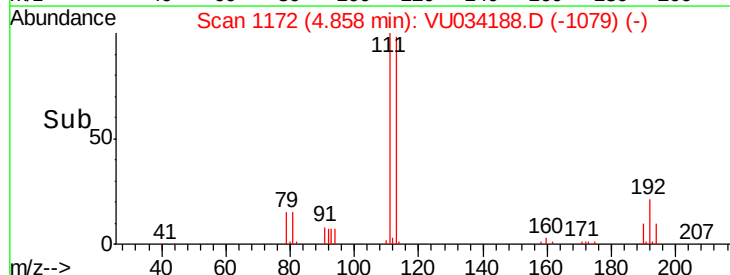
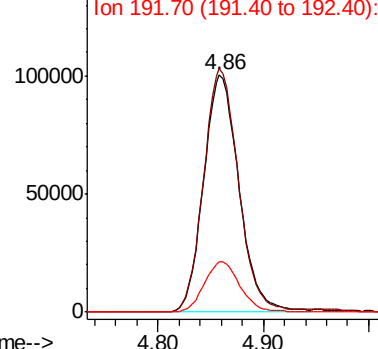


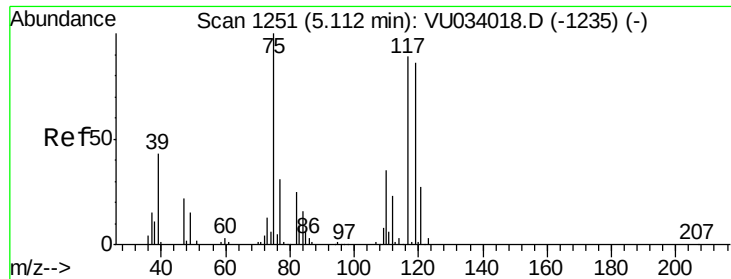
#35
 Dibromofluoromethane
 Concen: 49.032 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

Tgt Ion:	113	Resp:	233905
Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.7	122.5
192	21.6	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

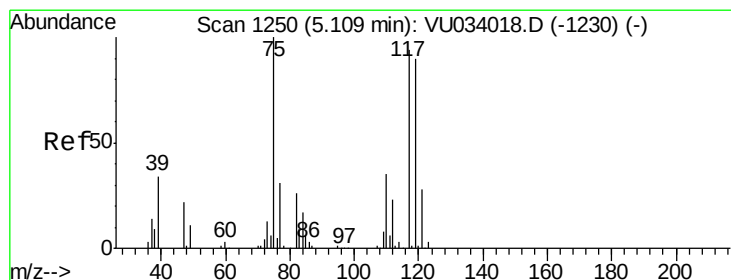
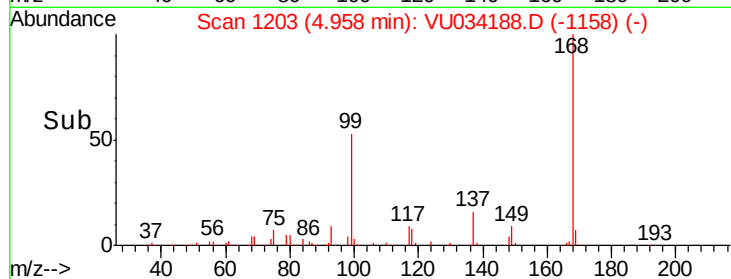
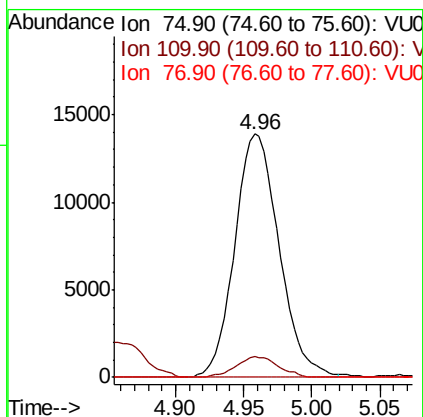
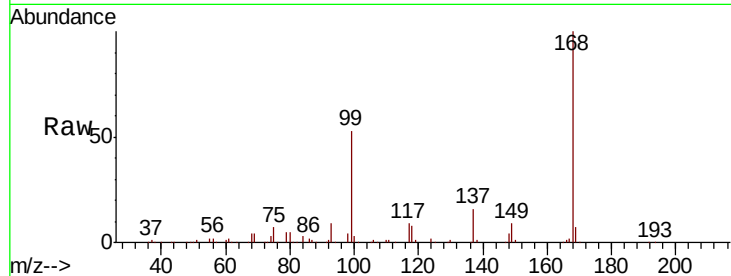




#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

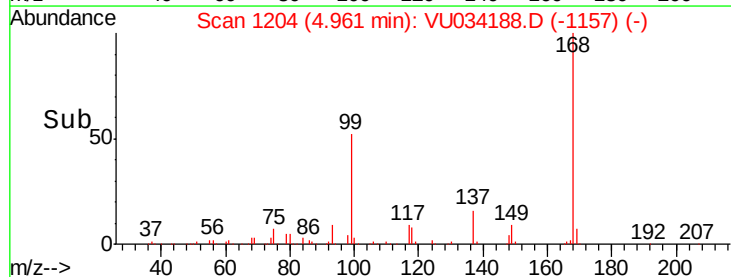
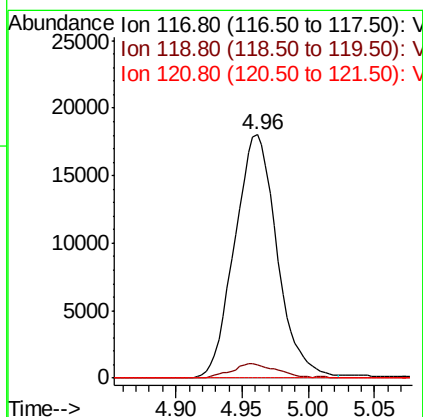
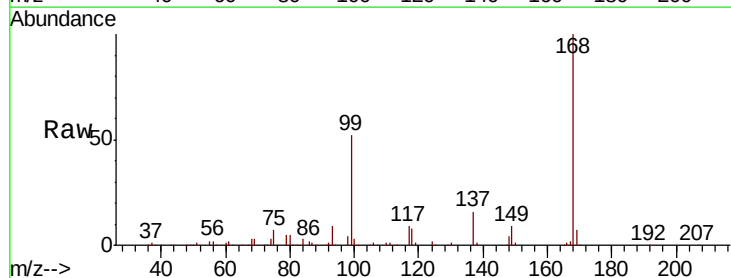
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0903WBL01

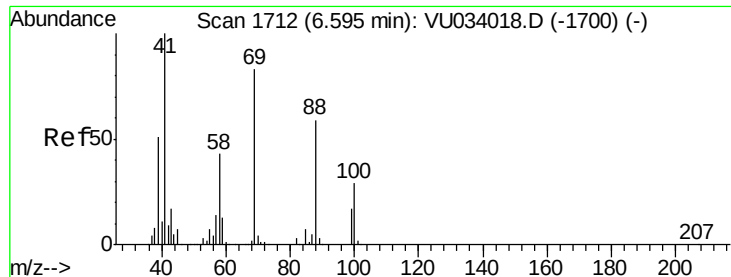
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.406 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

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

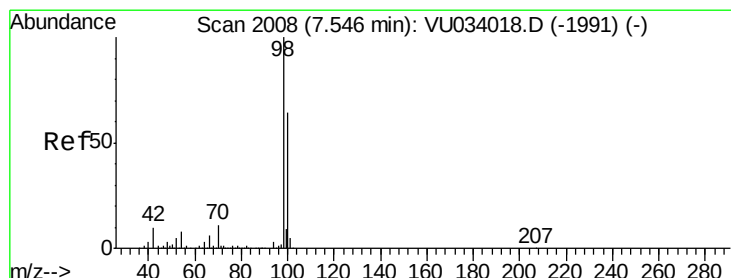
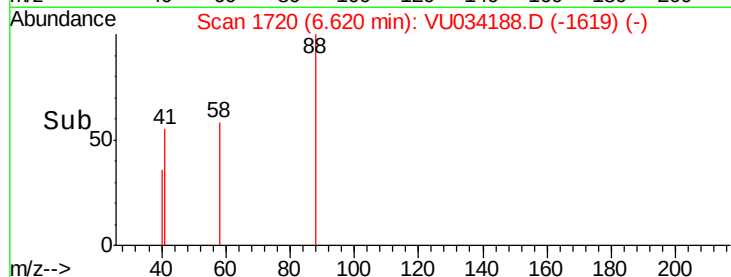
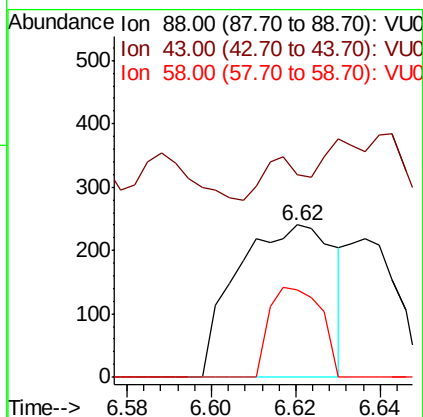
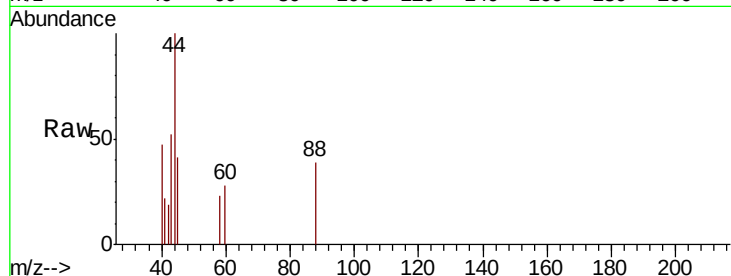




#49
1,4-Dioxane
Concen: 2.851 ug/l
RT: 6.62 min Scan# 1720
Delta R.T. 0.03 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

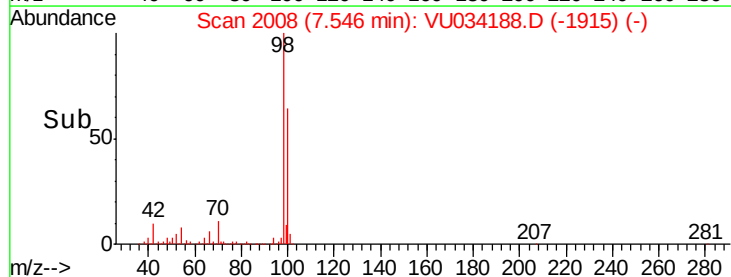
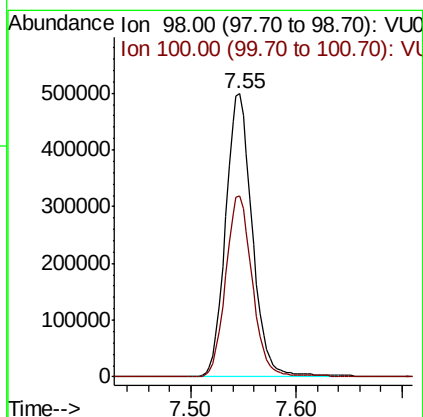
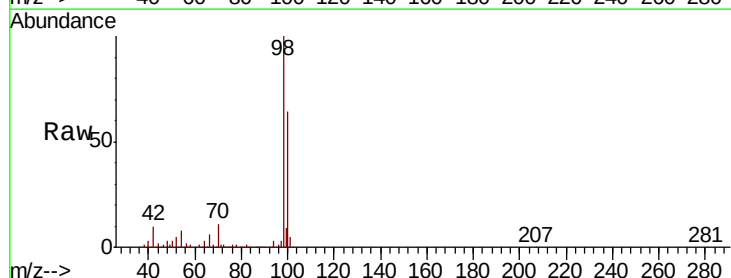
Instrument :
MSVOA_U
ClientSampleId :
VU0903WBL01

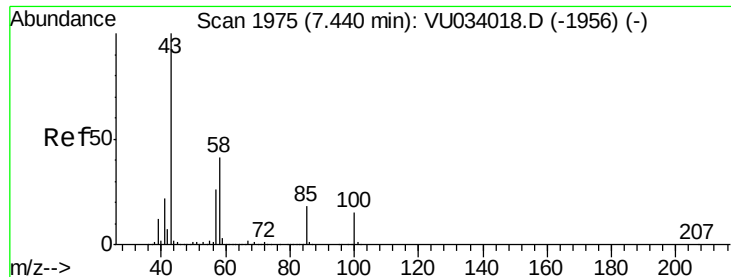
Tgt Ion: 88 Resp: 382
Ion Ratio Lower Upper
88 100
43 12.0 24.8 37.2#
58 31.2 59.3 88.9#



#50
Toluene-d8
Concen: 48.747 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Tgt Ion: 98 Resp: 870730
Ion Ratio Lower Upper
98 100
100 64.5 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.787 ug/l

RT: 7.45 min Scan# 1978

Delta R.T. 0.01 min

Lab File: VU034188.D

Acq: 02 Sep 2019 09:46

Instrument :

MSVOA_U

ClientSampleId :

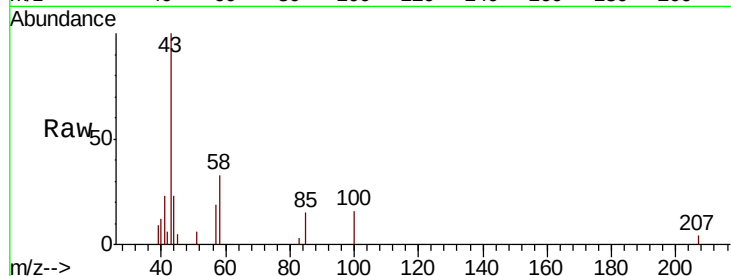
VU0903WBL01

Tgt Ion: 43 Resp: 6020

Ion Ratio Lower Upper

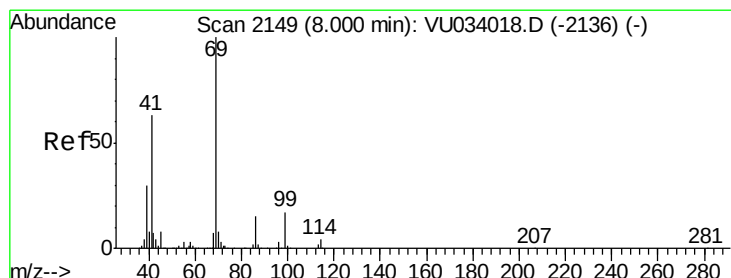
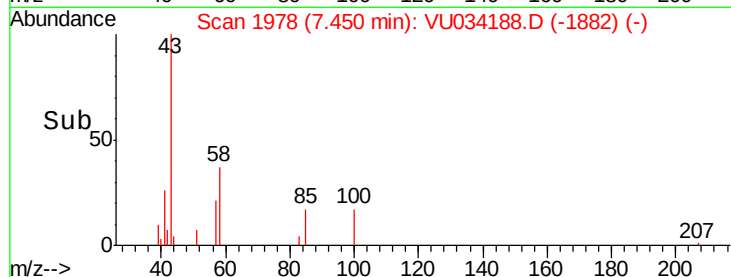
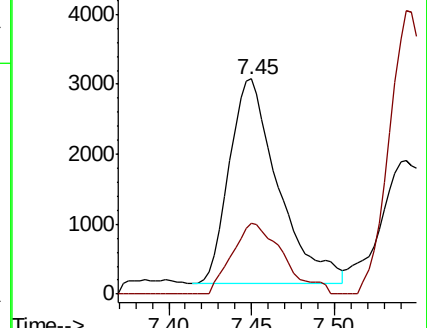
43 100

58 36.2 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VU034188.D (-1978) (-)

Ion 58.00 (57.70 to 58.70): VU034188.D (-1978) (-)



#56

Ethyl methacrylate

Concen: 0.993 ug/l

RT: 8.01 min Scan# 2153

Delta R.T. 0.01 min

Lab File: VU034188.D

Acq: 02 Sep 2019 09:46

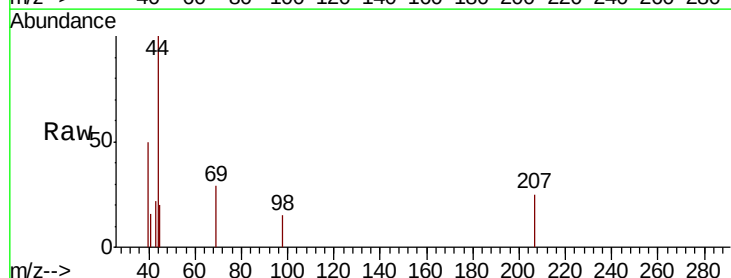
Tgt Ion: 69 Resp: 182

Ion Ratio Lower Upper

69 100

41 90.1 50.7 76.1#

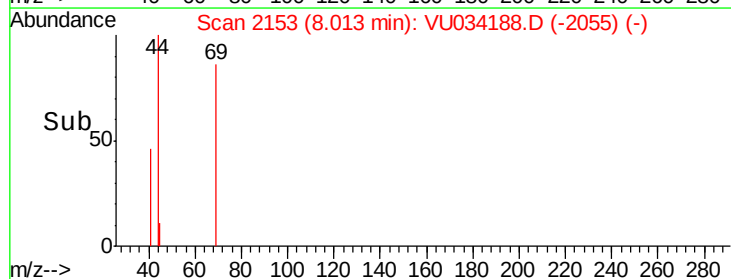
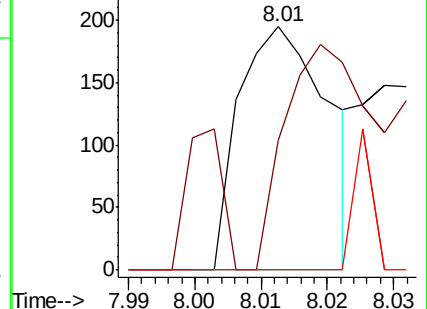
39 12.1 24.2 36.2#

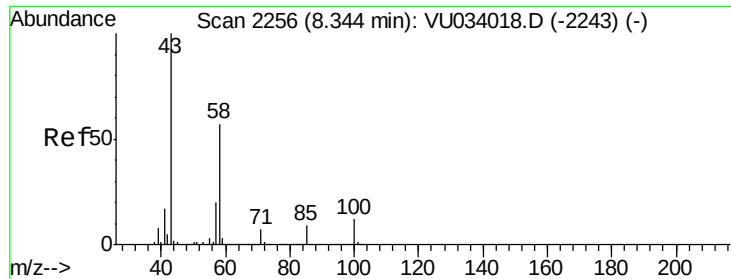


Abundance Ion 69.00 (68.70 to 69.70): VU034188.D (-2153) (-)

Ion 41.00 (40.70 to 41.70): VU034188.D (-2153) (-)

Ion 39.00 (38.70 to 39.70): VU034188.D (-2153) (-)

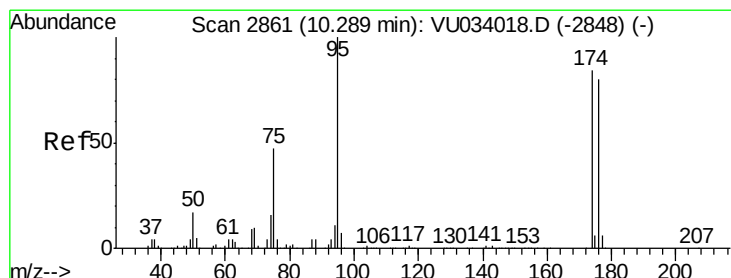
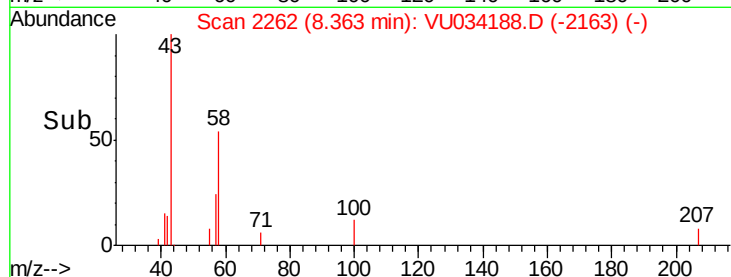
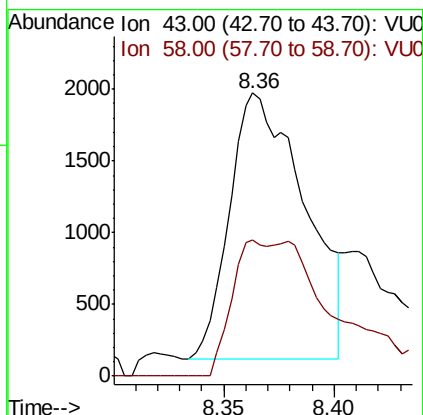
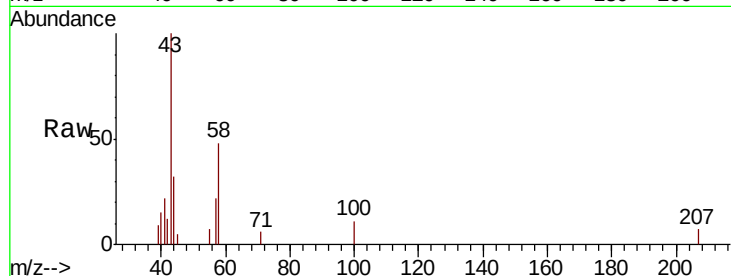




#59
 2-Hexanone
 Concen: 0.759 ug/l
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.02 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

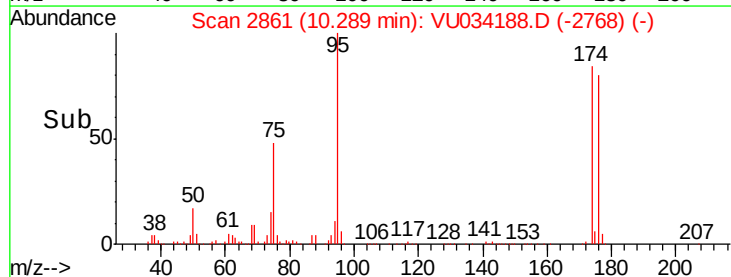
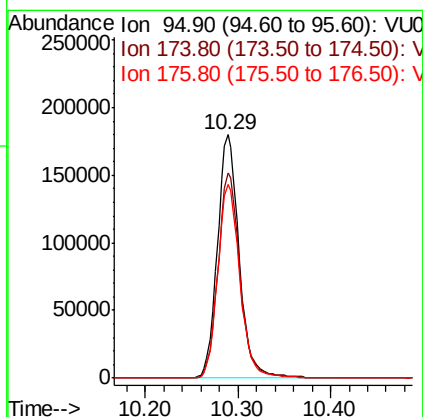
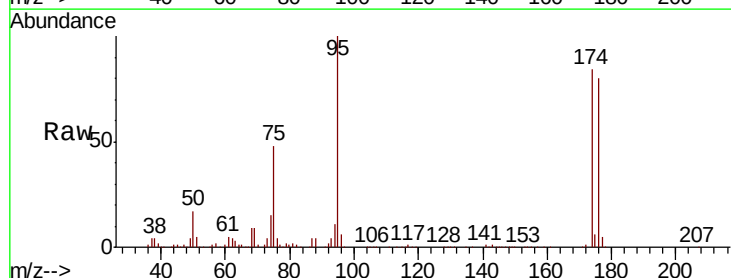
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0903WBL01

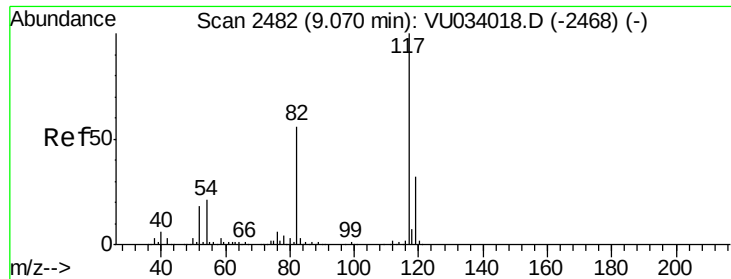
Tgt Ion: 43 Resp: 4385
 Ion Ratio Lower Upper
 43 100
 58 24.2 28.4 85.3#



#62
 4-Bromofluorobenzene
 Concen: 41.985 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

Tgt Ion: 95 Resp: 291718
 Ion Ratio Lower Upper
 95 100
 174 85.6 0.0 168.8
 176 80.8 0.0 161.8

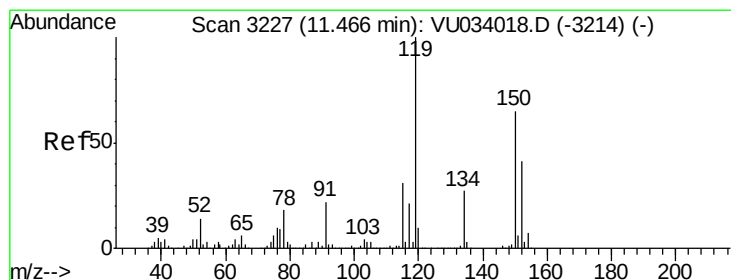
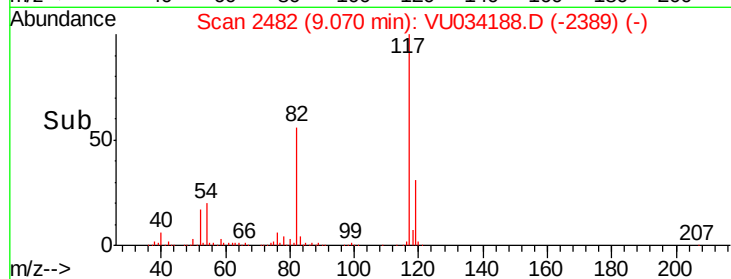
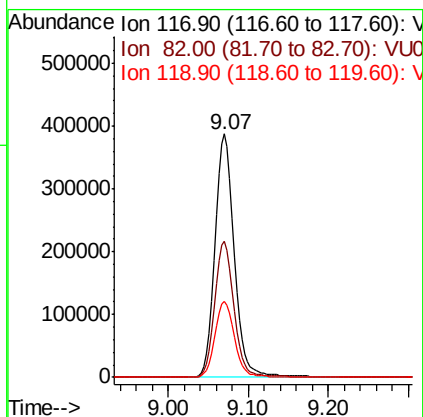
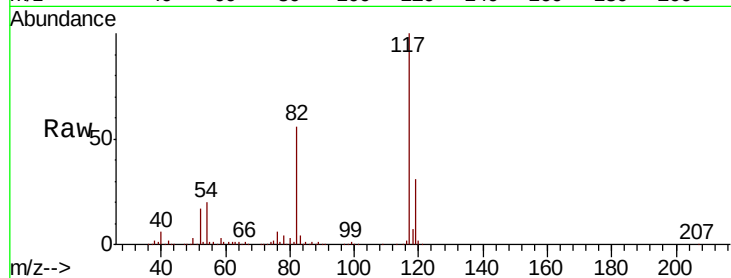




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

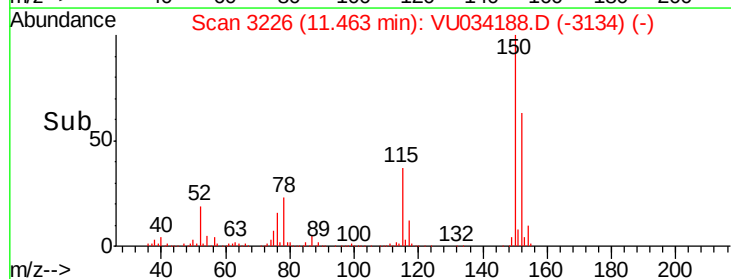
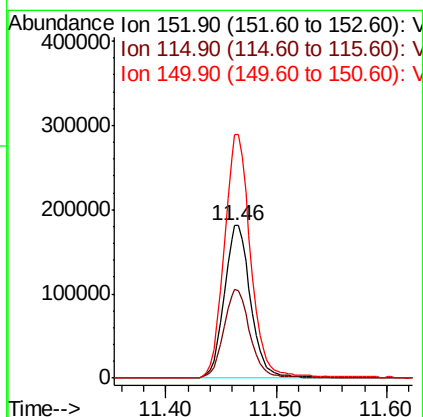
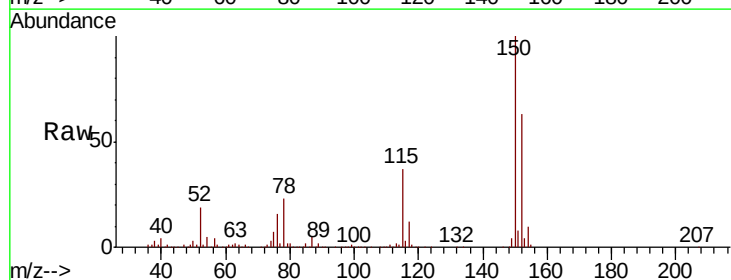
Instrument :
MSVOA_U
ClientSampleId :
VU0903WBL01

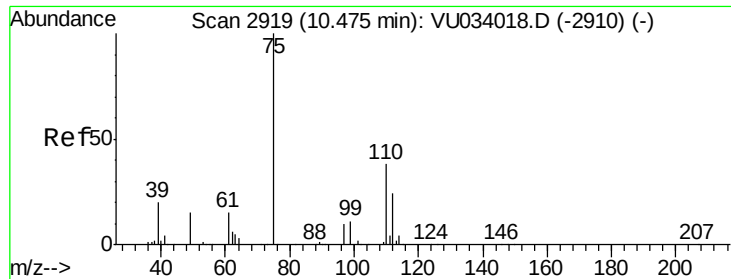
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.1	67.7
119	31.3	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	41.1	123.3
150	159.5	0.0	348.8

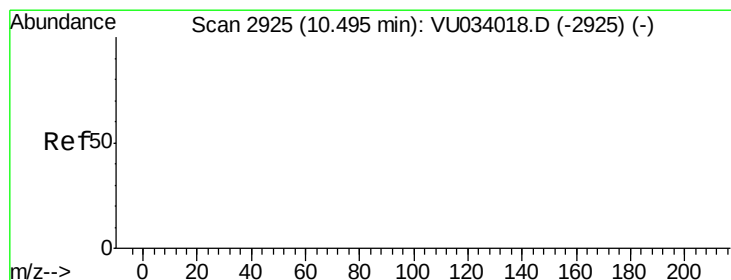
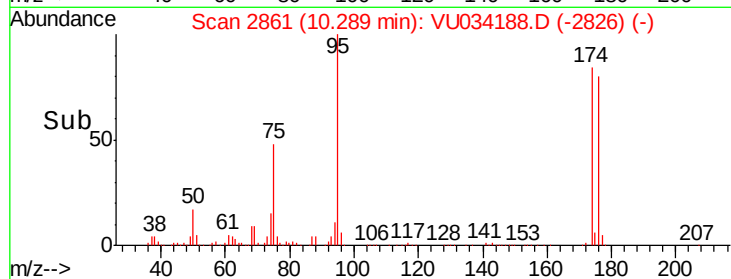
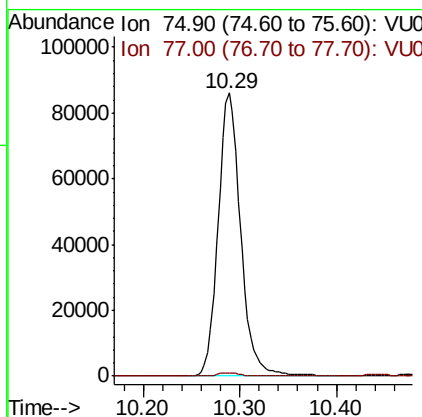
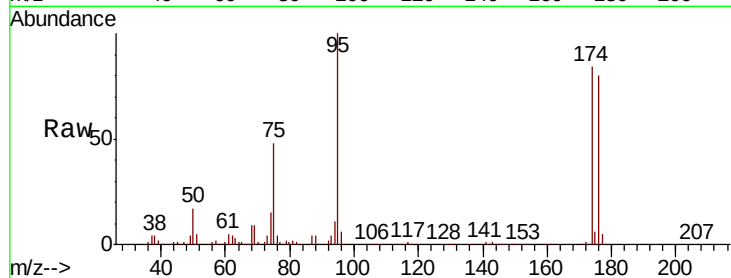




#76
 1,2,3-Trichloropropane
 Concen: 20.593 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

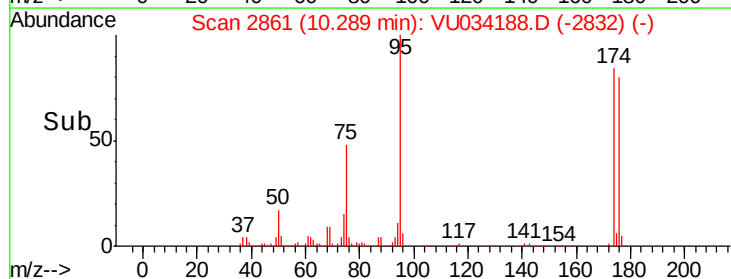
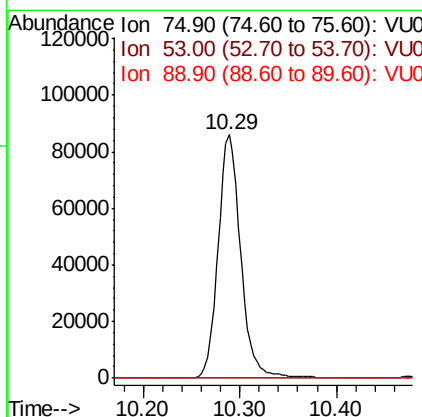
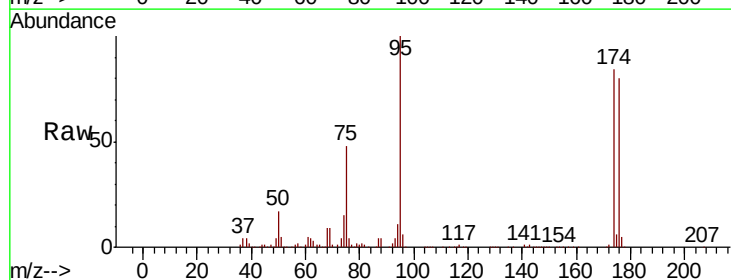
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0903WBL01

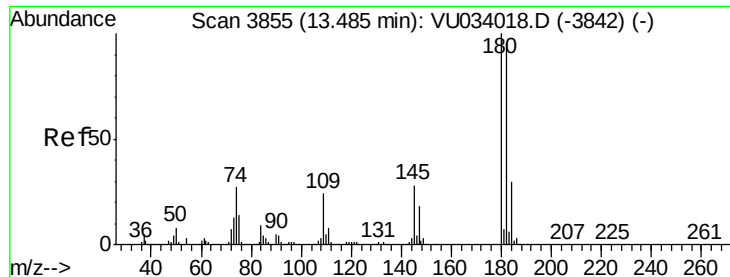
Tgt Ion: 75 Resp: 139421
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.341 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

Tgt Ion: 75 Resp: 139421
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

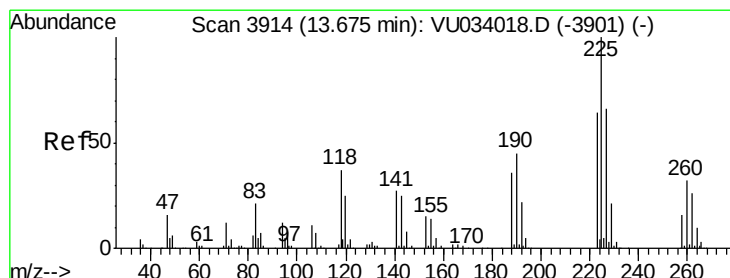
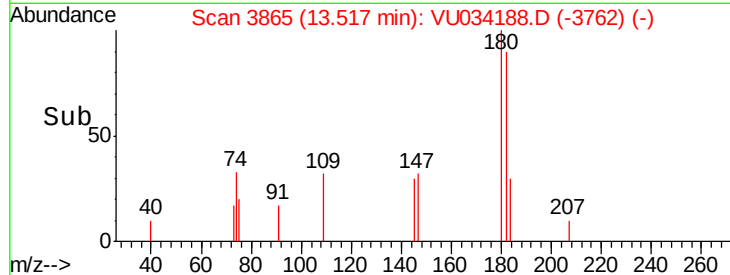
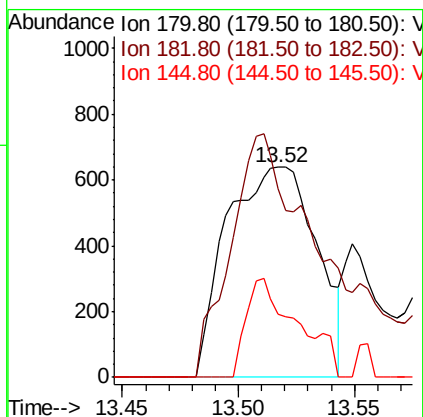
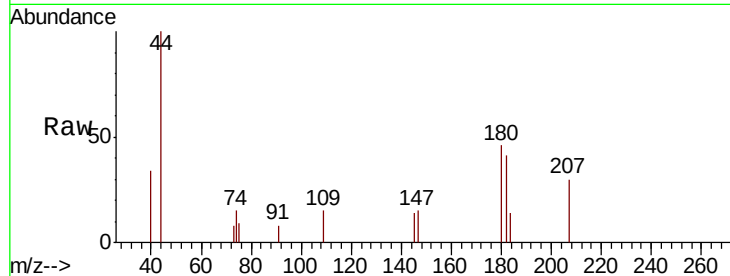




#93
 1,2,4-Trichlorobenzene
 Concen: 1.372 ug/l
 RT: 13.52 min Scan# 3865
 Delta R.T. 0.03 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

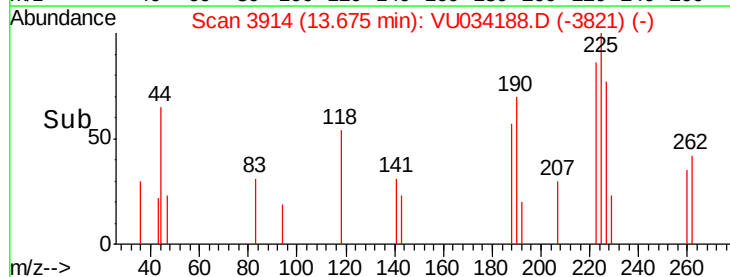
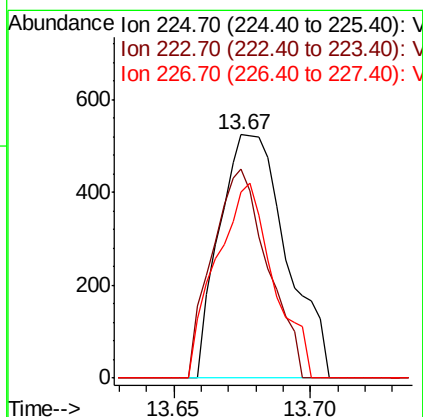
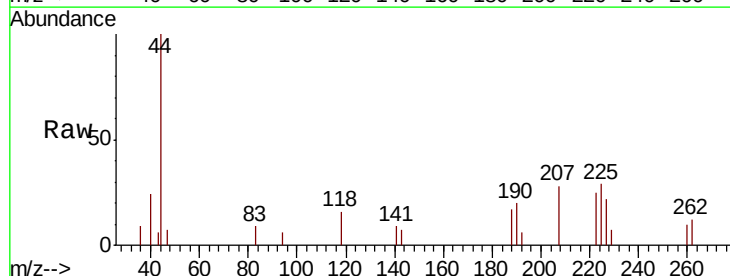
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0903WBL01

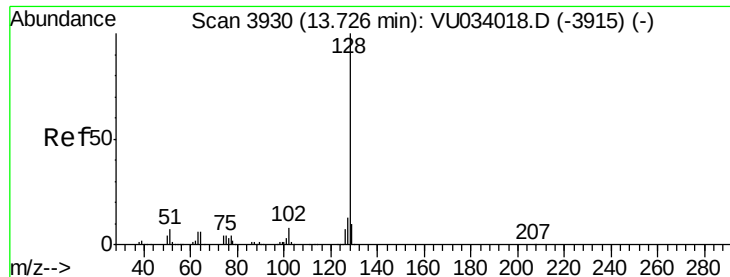
Tgt Ion:180 Resp: 1725
 Ion Ratio Lower Upper
 180 100
 182 103.6 47.4 142.2
 145 26.7 14.1 42.3



#94
 Hexachlorobutadiene
 Concen: 0.248 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034188.D
 Acq: 02 Sep 2019 09:46

Tgt Ion:225 Resp: 893
 Ion Ratio Lower Upper
 225 100
 223 71.1 31.8 95.3
 227 68.6 32.6 97.8

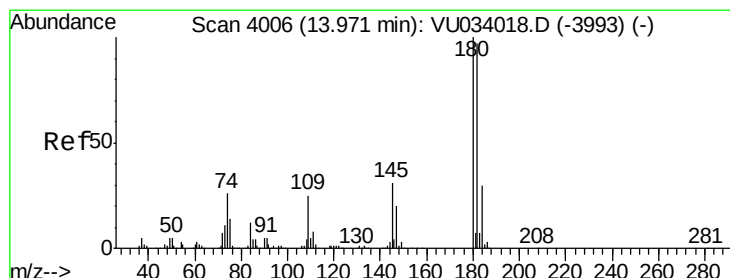
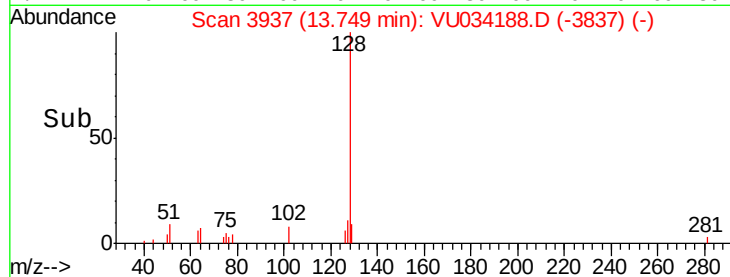
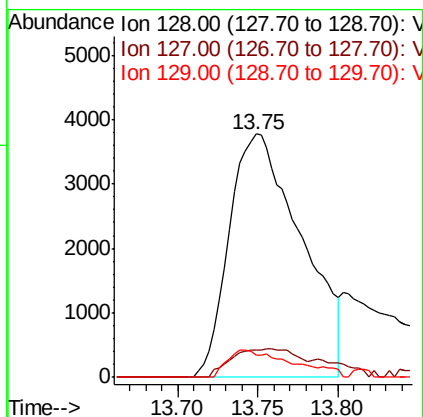
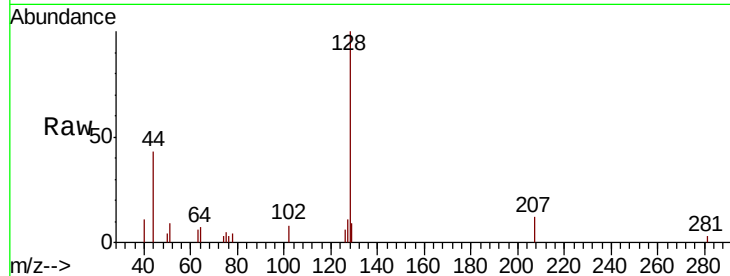




#95
Naphthalene
Concen: 2.393 ug/l
RT: 13.75 min Scan# 3937
Delta R.T. 0.02 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Instrument :
MSVOA_U
ClientSampleId :
VU0903WBL01

Tgt Ion:128 Resp: 11734
Ion Ratio Lower Upper
128 100
127 10.7 10.2 15.4
129 10.1 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 0.387 ug/l
RT: 13.99 min Scan# 4012
Delta R.T. 0.02 min
Lab File: VU034188.D
Acq: 02 Sep 2019 09:46

Tgt Ion:180 Resp: 2280
Ion Ratio Lower Upper
180 100
182 123.4 48.2 144.6
145 28.0 15.5 46.5

