

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034046.D
 Acq On : 29 Aug 2019 00:17
 Operator : JC/SP
 Sample : K4525-36
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B2-(1.9)

Quant Time: Aug 29 04:21:56 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	458507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	744175	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	739908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	361509	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	297705	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
35) Dibromofluoromethane	4.86	113	242922	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	
50) Toluene-d8	7.55	98	967544	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	
62) 4-Bromofluorobenzene	10.29	95	337945	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	755	Below Cal		94
5) Bromomethane	1.62	94	231	Below Cal		83
8) Diethyl Ether	2.10	74	1008	0.331	ug/l	51
11) Tert butyl alcohol	2.83	59	2886	2.130	ug/l #	73
13) Acrolein	2.18	56	190	0.333	ug/l #	31
16) Acetone	2.31	43	30130	10.051	ug/l	97
18) Methyl Acetate	2.61	43	3304	0.427	ug/l #	88
20) Methylene Chloride	2.69	84	42616	7.509	ug/l	96
31) Cyclohexane	4.96	56	8873	1.011	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33300	4.731	ug/l #	49
38) Carbon Tetrachloride	4.96	117	41915	6.169	ug/l #	17
43) Isopropyl Acetate	5.53	43	92989	7.754	ug/l	100
48) Methyl methacrylate	6.52	41	5599	0.968	ug/l #	14
49) 1,4-Dioxane	6.69	88	135	0.931	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	84358	10.186	ug/l #	46
54) cis-1,3-Dichloropropene	7.41	75	40550	4.527	ug/l #	62
56) Ethyl methacrylate	8.00	69	65	0.978	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6479	0.688	ug/l #	42
59) 2-Hexanone	8.40	43	79950	12.788	ug/l #	53
76) 1,2,3-Trichloropropane	10.29	75	163602	20.079	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	163602	67.612	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

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MSVOA_U

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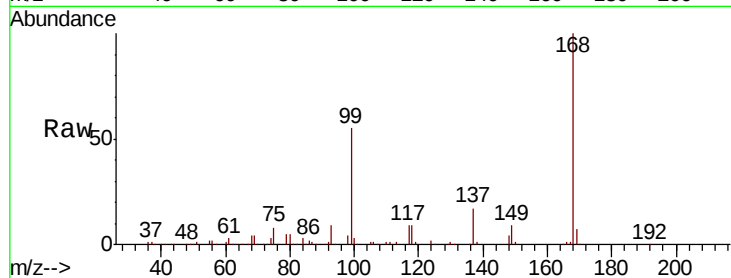
T9-12-13-B2-(1.9)

Tgt Ion:168 Resp: 458507

Ion Ratio Lower Upper

168 100

99 55.3 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

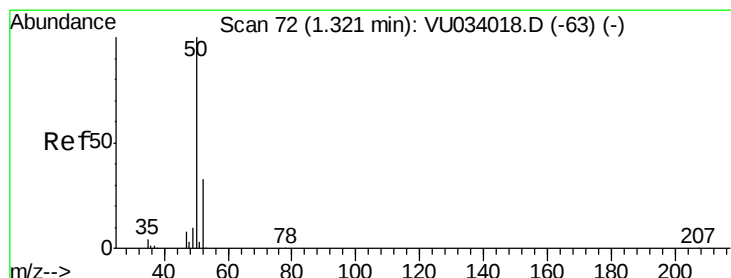
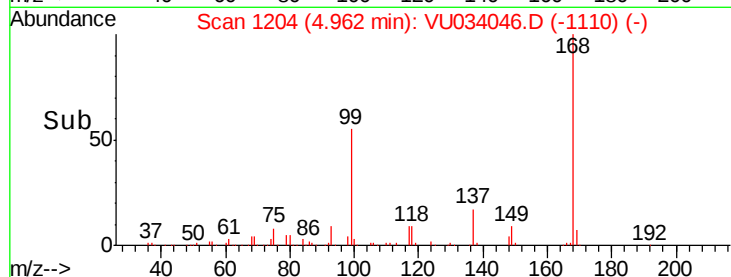
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034046.D

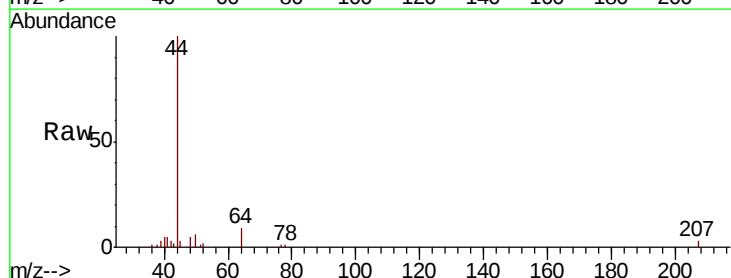
Acq: 29 Aug 2019 00:17

Tgt Ion: 50 Resp: 755

Ion Ratio Lower Upper

50 100

52 36.0 26.2 39.4



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

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

1.33

600

500

400

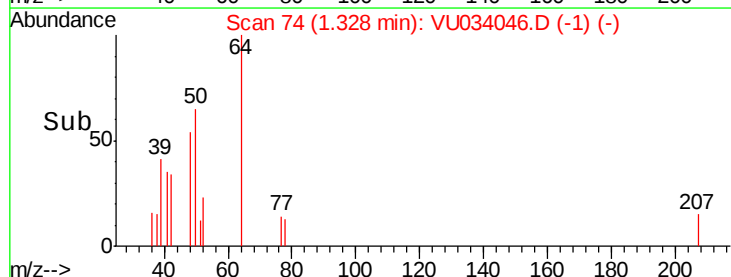
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 166

Delta R.T. 0.03 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

Instrument :

MSVOA_U

ClientSampleId :

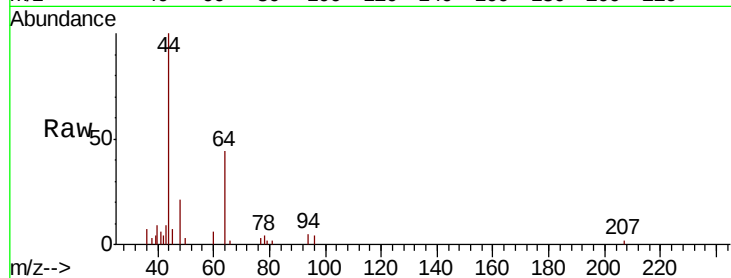
T9-12-13-B2-(1.9)

Tgt Ion: 94 Resp: 231

Ion Ratio Lower Upper

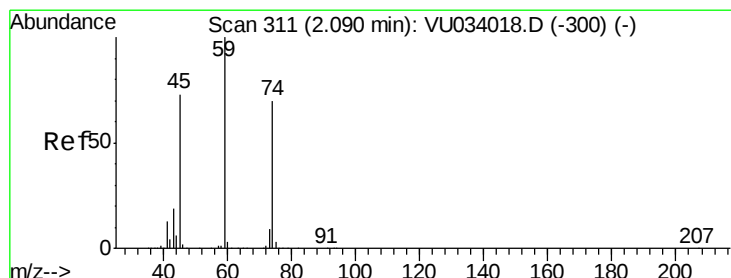
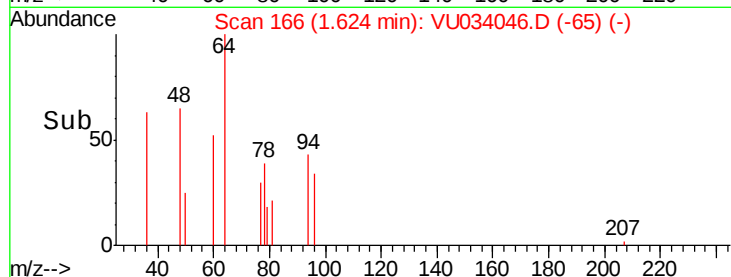
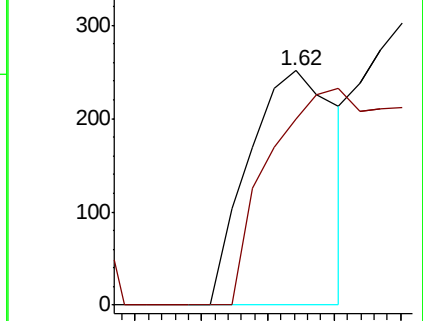
94 100

96 79.3 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#8

Diethyl Ether

Concen: 0.331 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034046.D

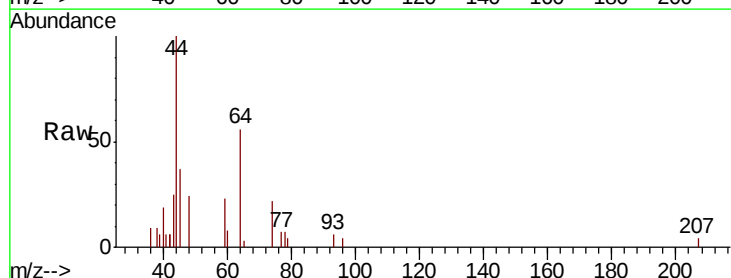
Acq: 29 Aug 2019 00:17

Tgt Ion: 74 Resp: 1008

Ion Ratio Lower Upper

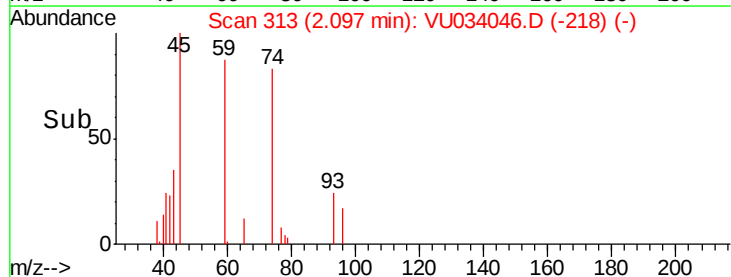
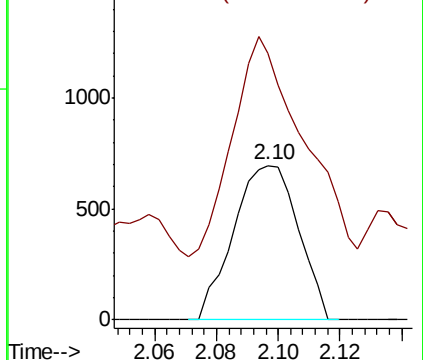
74 100

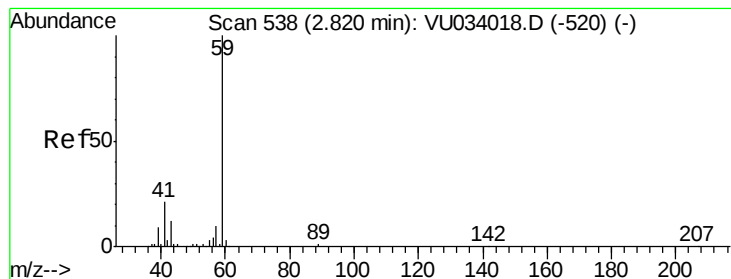
45 153.8 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



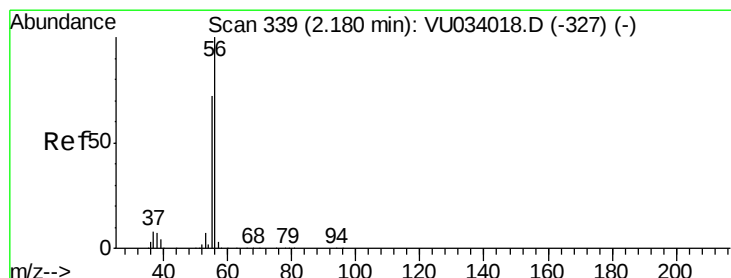
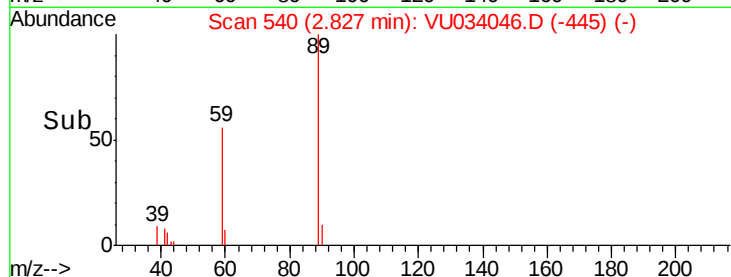
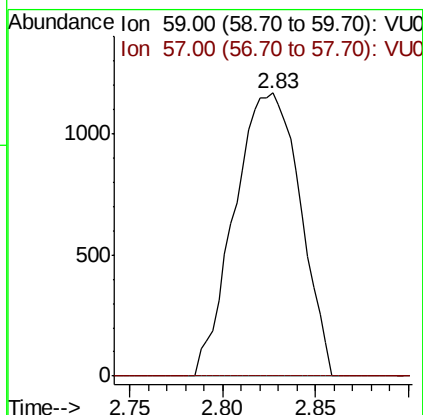
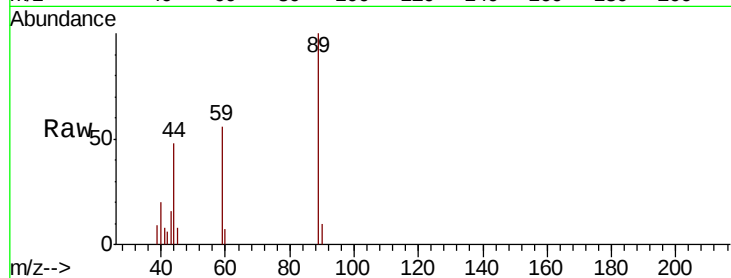


#11

Tert butyl alcohol
 Concen: 2.130 ug/l
 RT: 2.83 min Scan# 540
 Delta R.T. 0.01 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B2-(1.9)

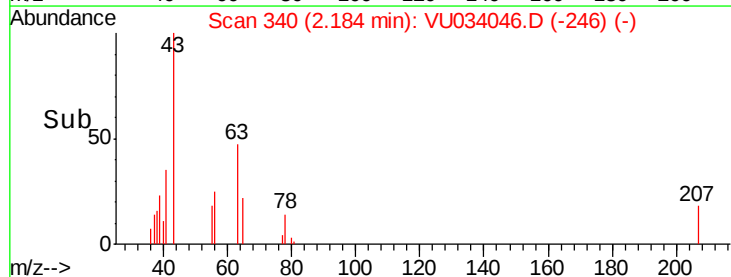
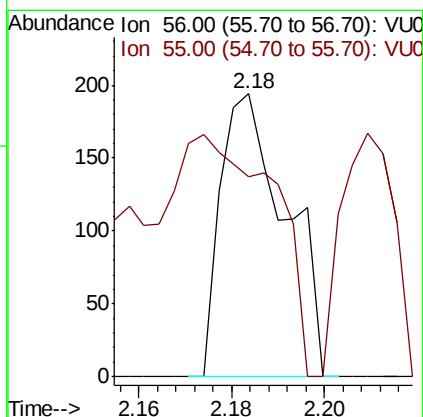
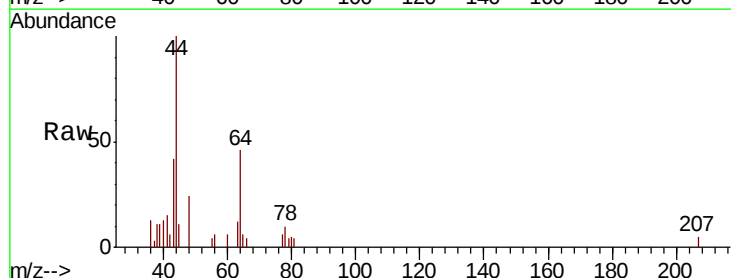
Tgt Ion: 59 Resp: 2886
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

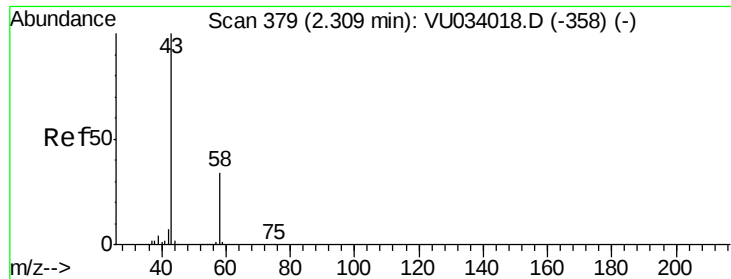


#13

Acrolein
 Concen: 0.333 ug/l
 RT: 2.18 min Scan# 340
 Delta R.T. 0.00 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

Tgt Ion: 56 Resp: 190
 Ion Ratio Lower Upper
 56 100
 55 128.9 57.1 85.7#





#16

Acetone

Concen: 10.051 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

Instrument :

MSVOA_U

ClientSampleId :

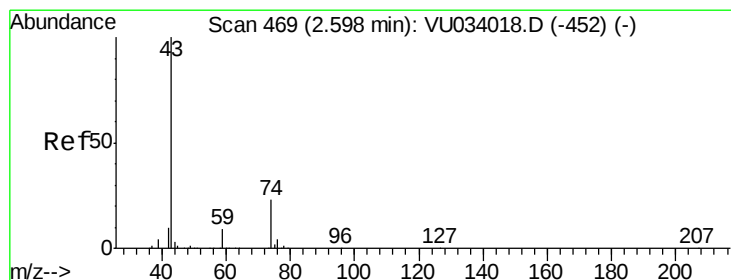
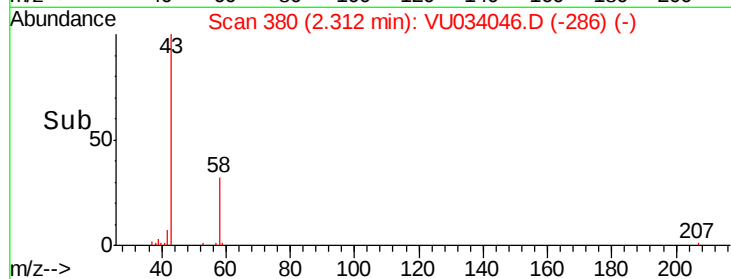
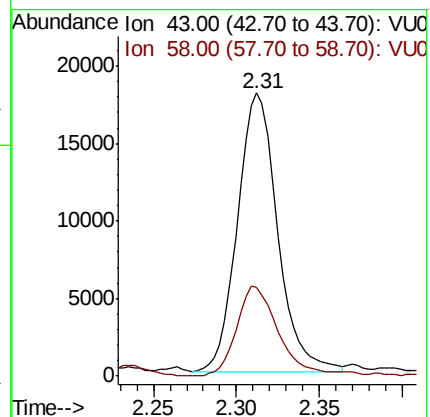
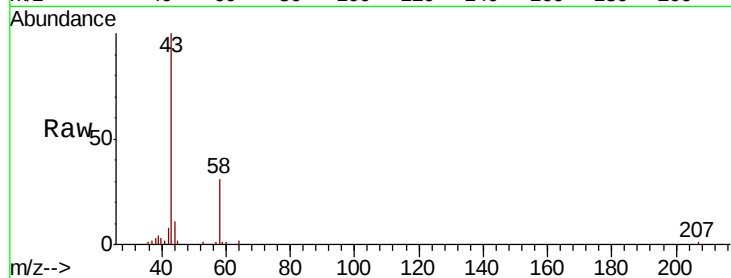
T9-12-13-B2-(1.9)

Tgt Ion: 43 Resp: 30130

Ion Ratio Lower Upper

43 100

58 32.0 26.8 40.2



#18

Methyl Acetate

Concen: 0.427 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034046.D

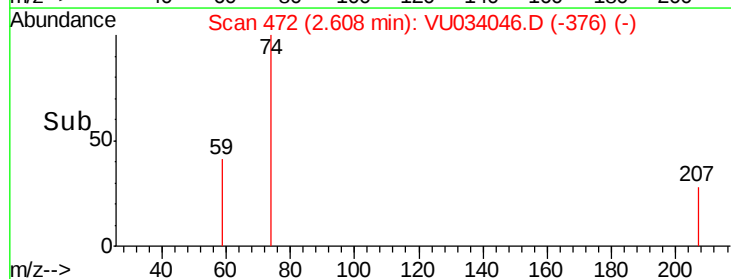
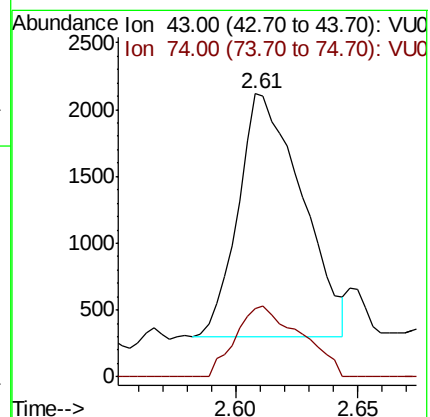
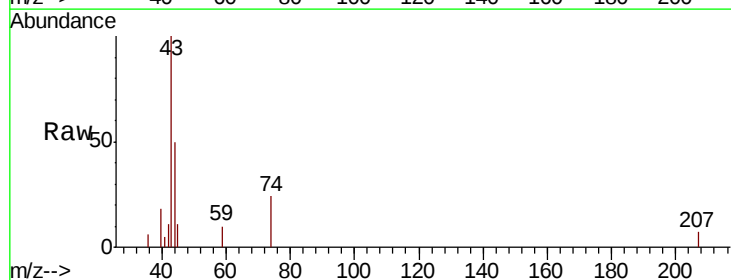
Acq: 29 Aug 2019 00:17

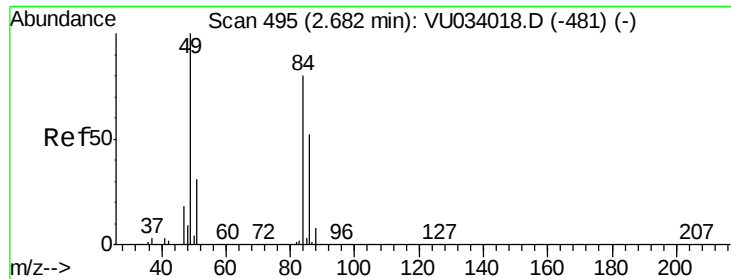
Tgt Ion: 43 Resp: 3304

Ion Ratio Lower Upper

43 100

74 29.8 19.2 28.8#

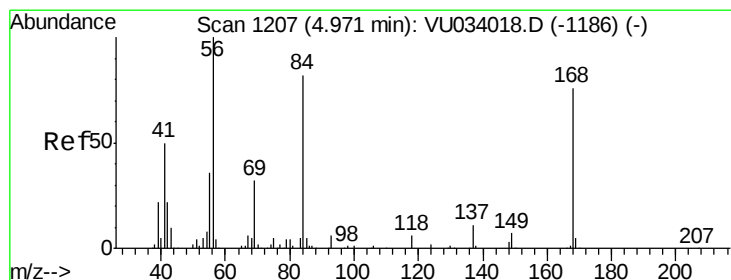
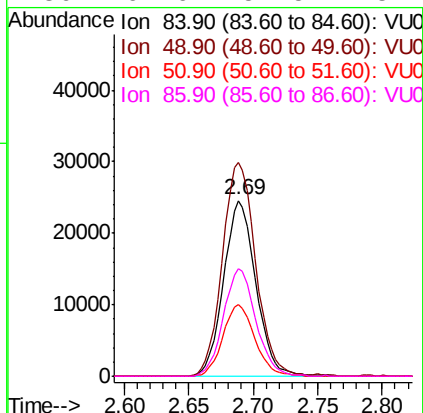
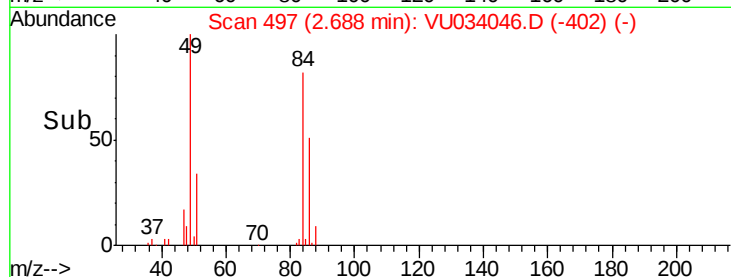
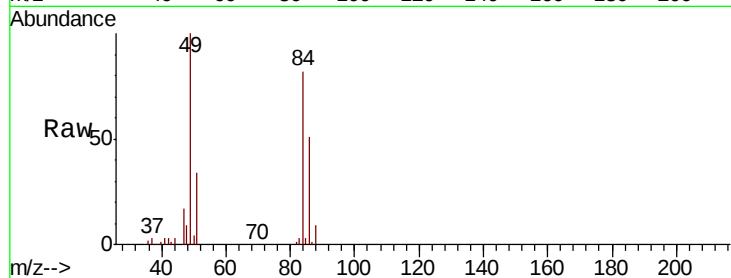




#20
Methylene Chloride
Concen: 7.509 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

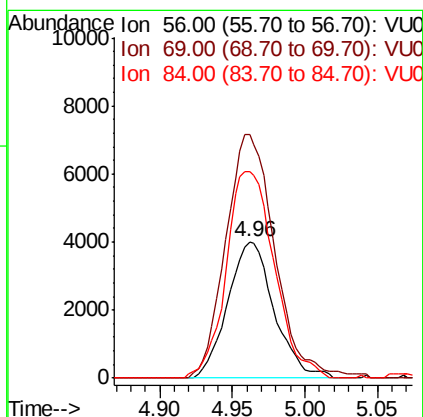
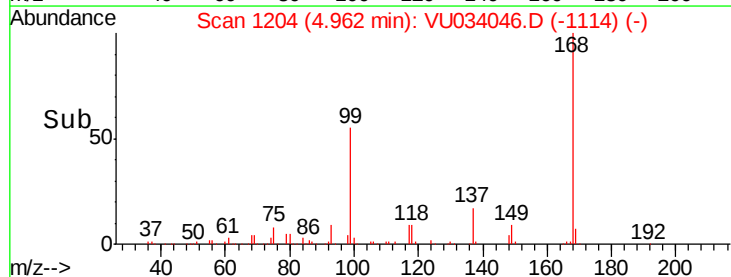
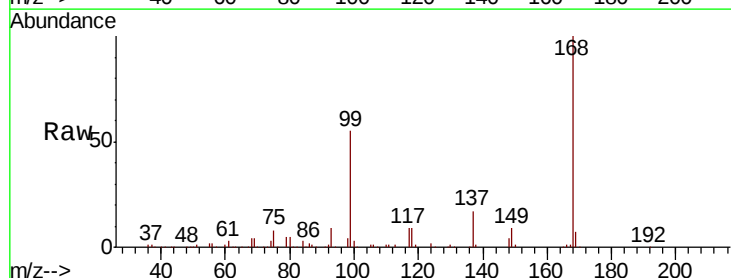
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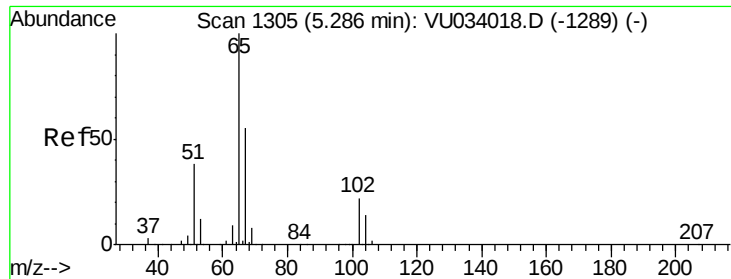
Tgt Ion: 84 Resp: 42616
Ion Ratio Lower Upper
84 100
49 121.7 100.2 150.4
51 40.9 30.8 46.2
86 61.6 52.5 78.7



#31
Cyclohexane
Concen: 1.011 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

Tgt Ion: 56 Resp: 8873
Ion Ratio Lower Upper
56 100
69 178.4 25.4 38.0#
84 151.7 65.8 98.8#

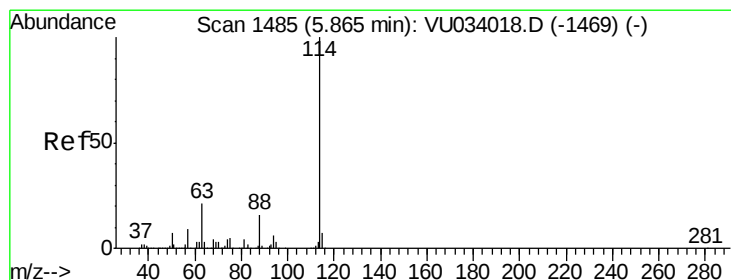
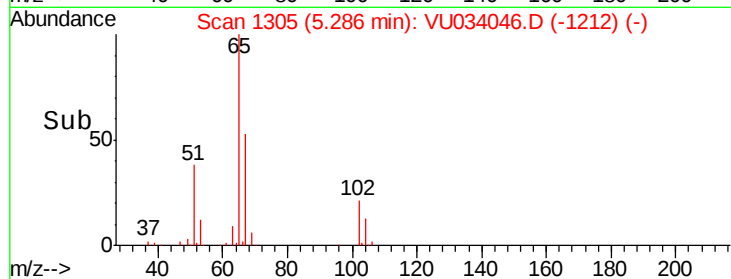
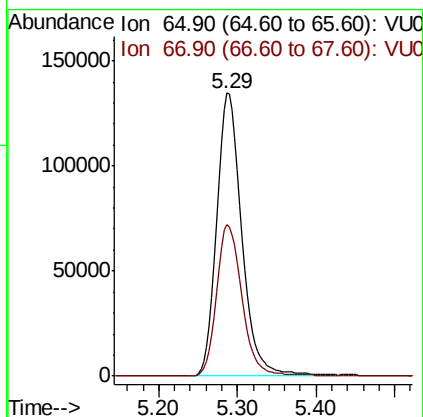
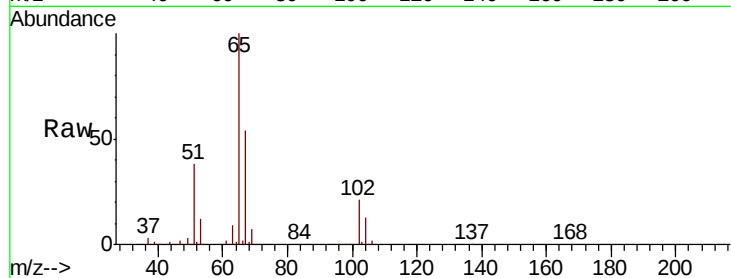




#33
 1,2-Dichloroethane-d4
 Concen: 50.673 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

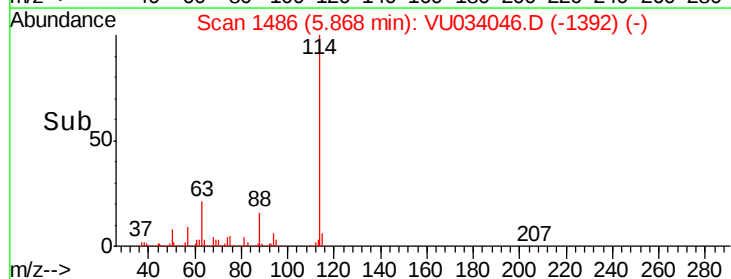
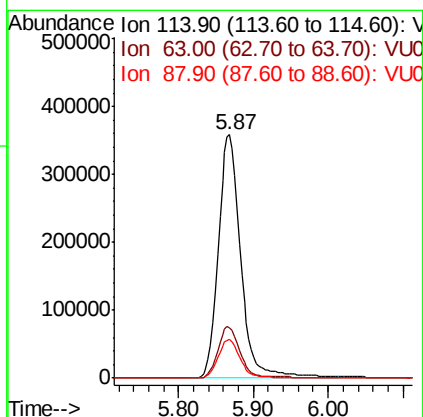
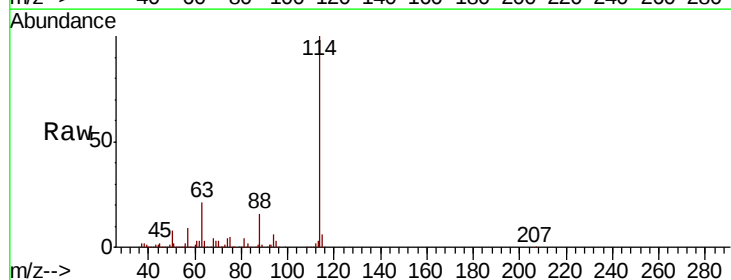
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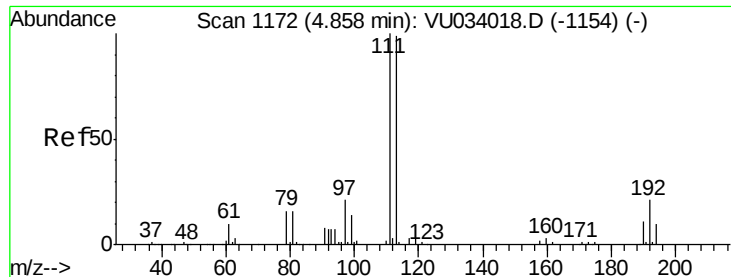
Tgt Ion: 65 Resp: 297705
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

Tgt Ion: 114 Resp: 744175
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.0
 88 15.8 0.0 32.0

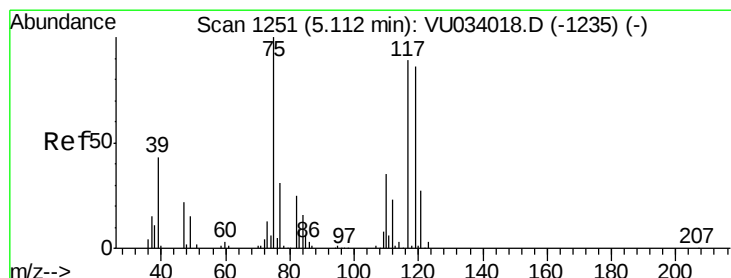
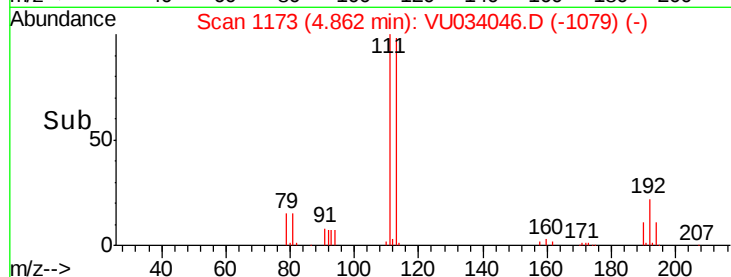
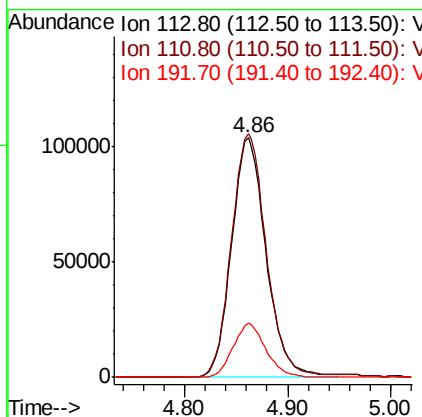
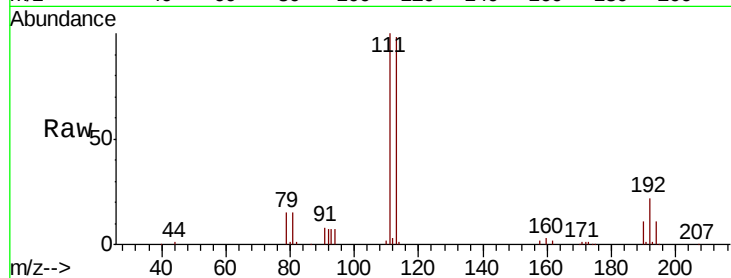




#35
 Dibromofluoromethane
 Concen: 47.064 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

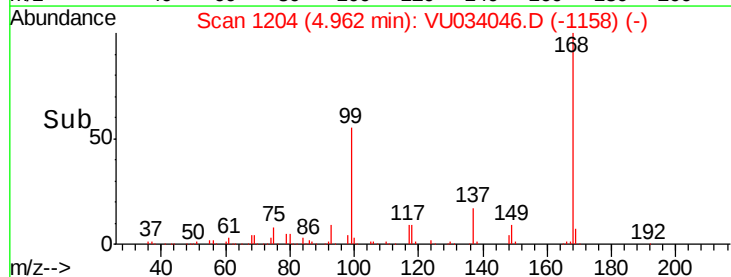
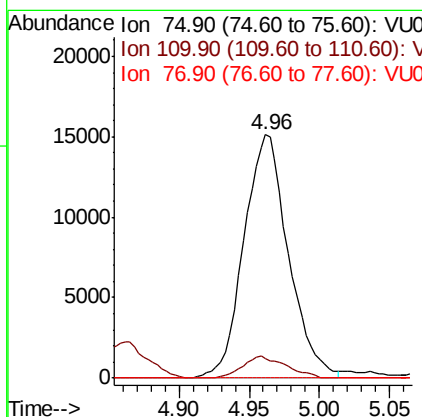
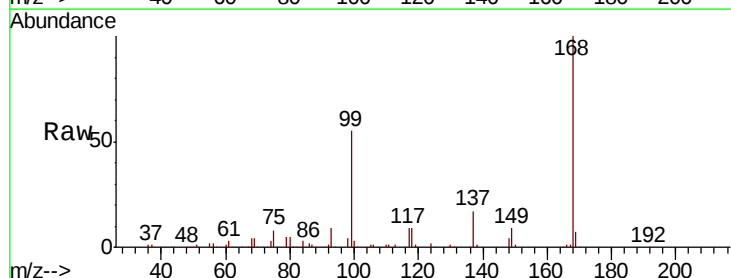
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B2-(1.9)

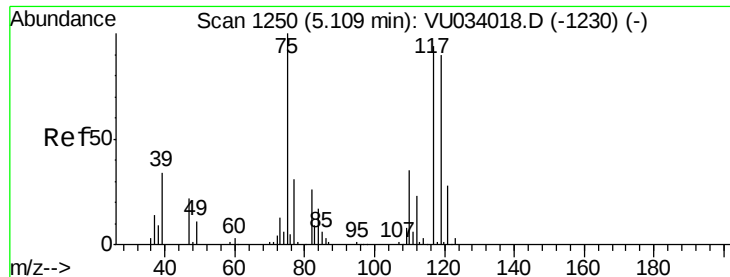
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.7	122.5
192	21.5	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.731 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.169 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B2-(1.9)

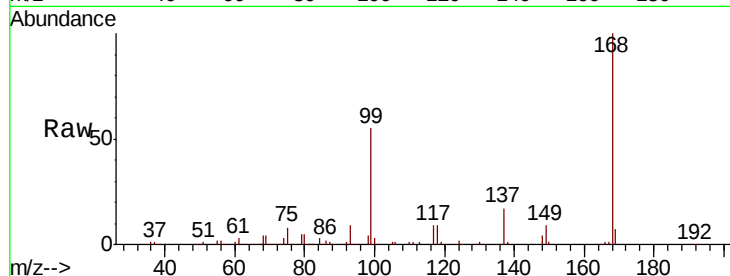
Tgt Ion:117 Resp: 41915

Ion Ratio Lower Upper

117 100

119 6.6 77.0 115.4#

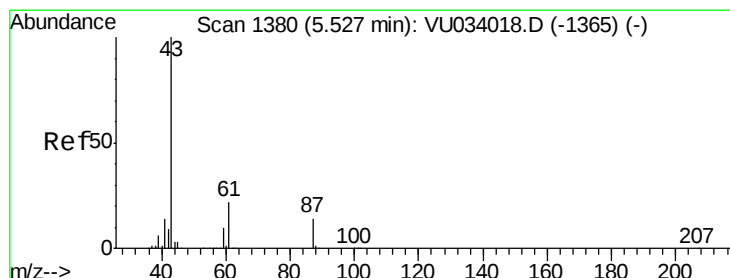
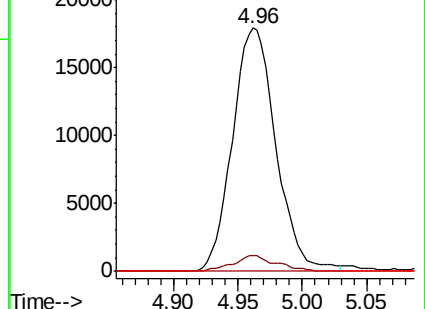
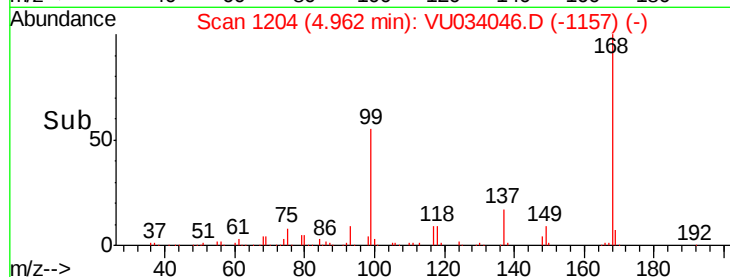
121 0.0 23.9 35.9#



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: 7.754 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

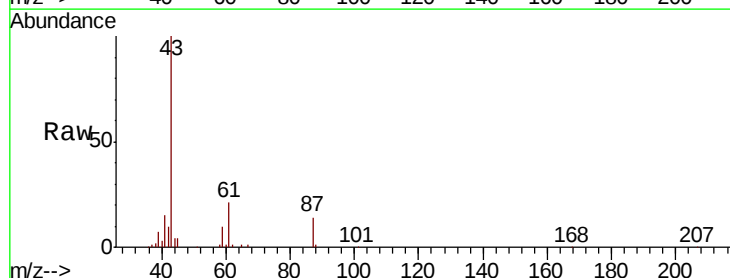
Tgt Ion: 43 Resp: 92989

Ion Ratio Lower Upper

43 100

61 21.3 17.2 25.8

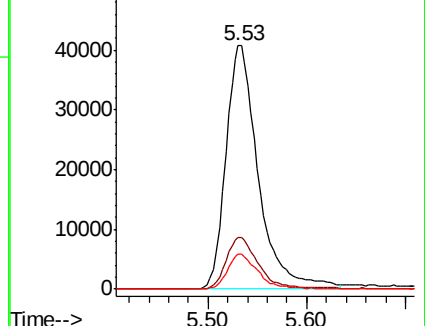
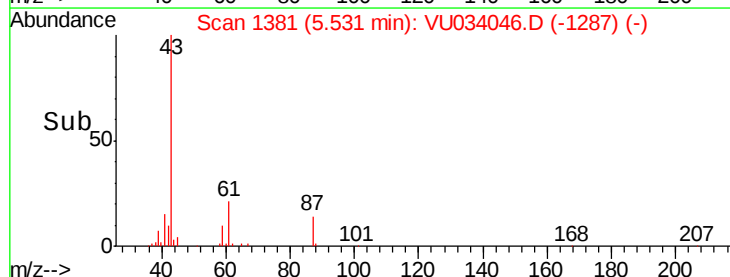
87 13.6 10.8 16.2

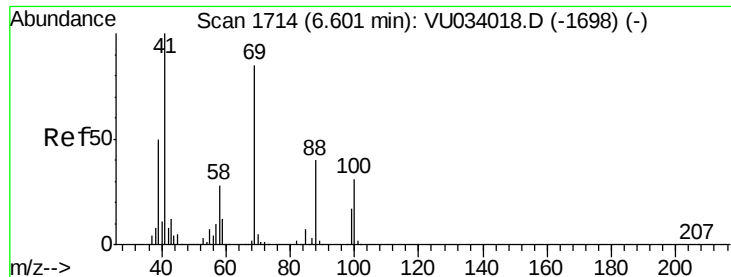


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

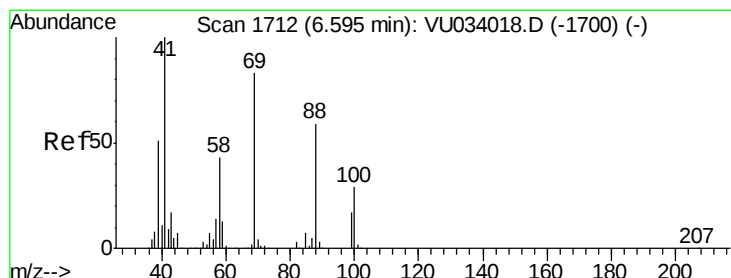
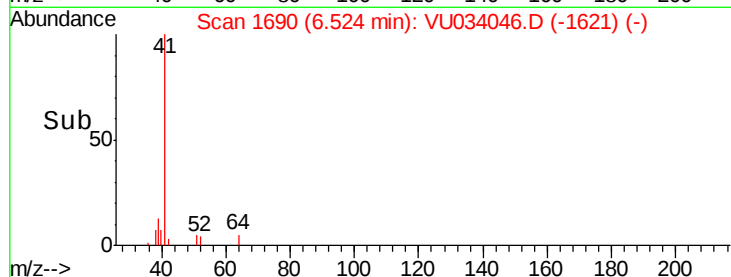
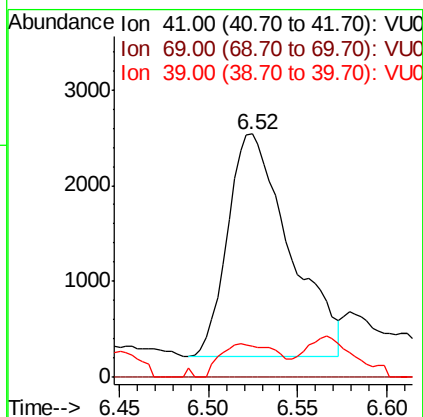
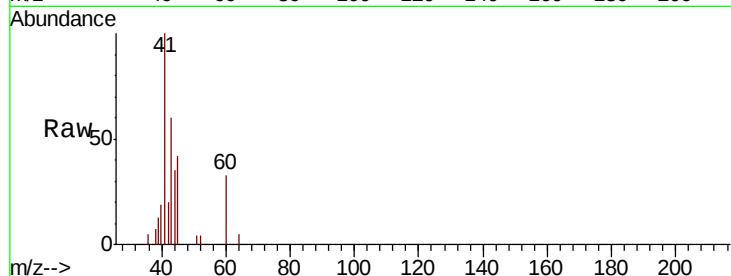




#48
Methyl methacrylate
Concen: 0.968 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

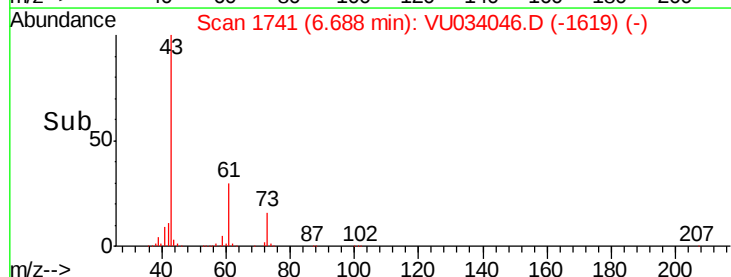
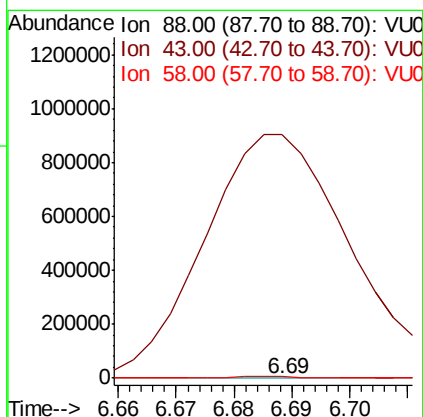
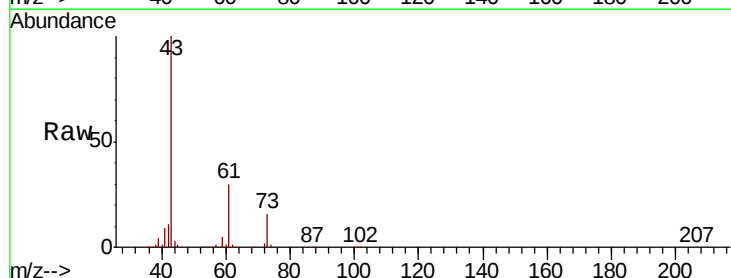
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B2-(1.9)

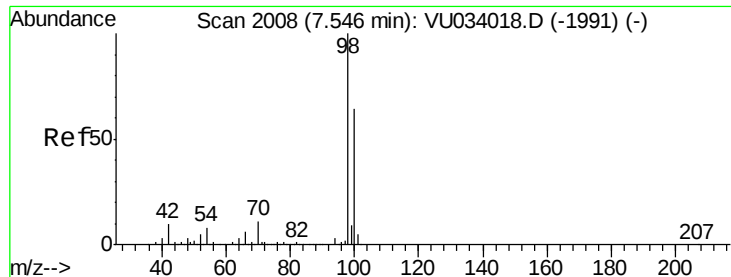
Tgt Ion: 41 Resp: 5599
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.931 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.09 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

Tgt Ion: 88 Resp: 135
Ion Ratio Lower Upper
88 100
43 1242123.0 24.8 37.2#
58 6250.4 59.3 88.9#

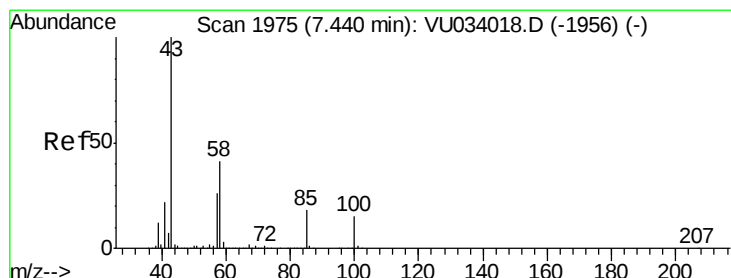
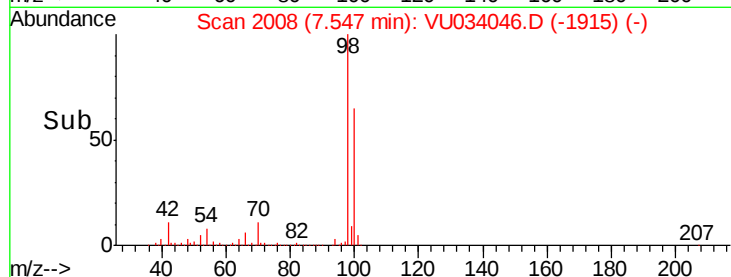
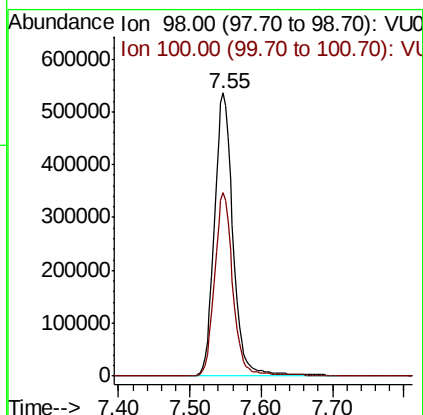
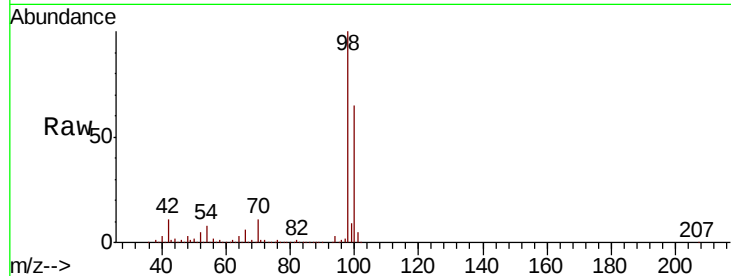




#50
Toluene-d8
Concen: 50.063 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

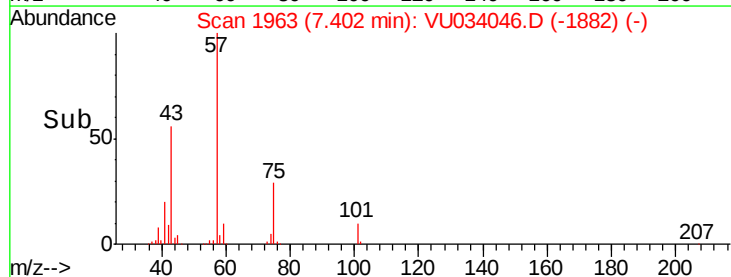
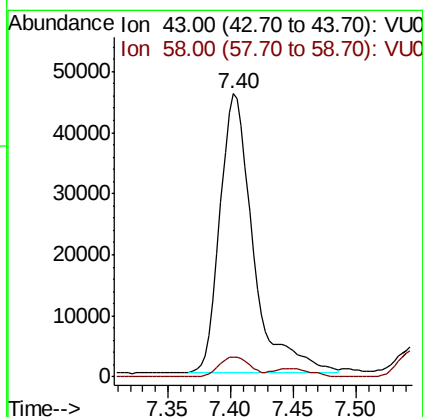
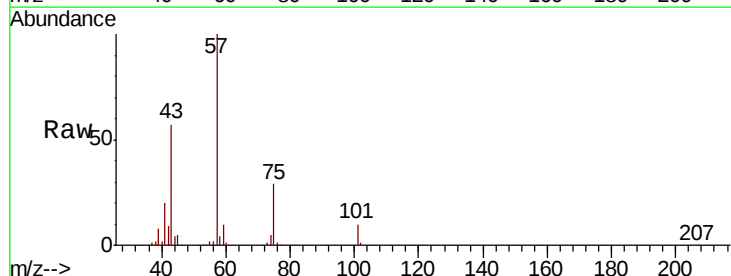
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B2-(1.9)

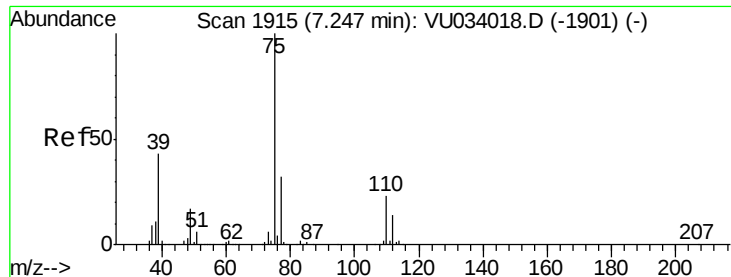
Tgt Ion: 98 Resp: 967544
Ion Ratio Lower Upper
98 100
100 63.9 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 10.186 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

Tgt Ion: 43 Resp: 84358
Ion Ratio Lower Upper
43 100
58 6.7 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 4.527 ug/l

RT: 7.41 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B2-(1.9)

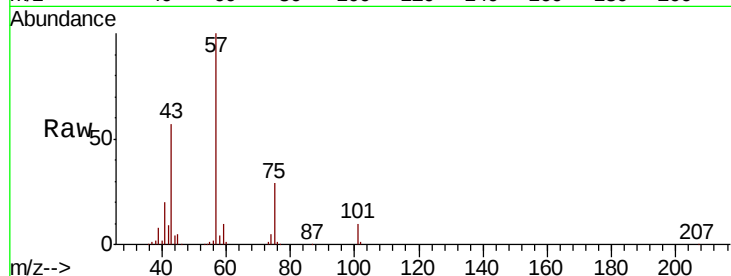
Tgt Ion: 75 Resp: 40550

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

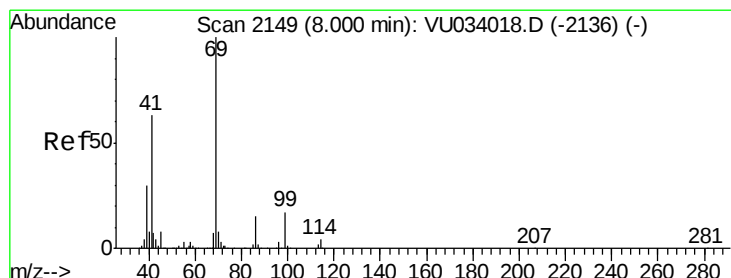
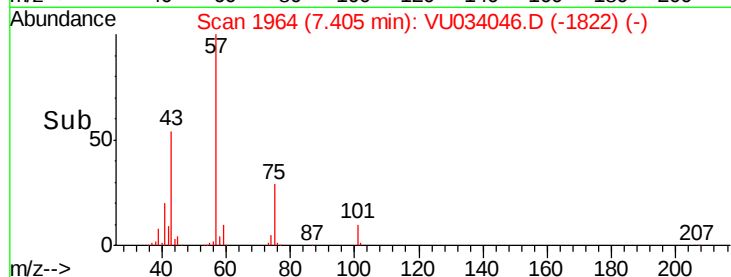
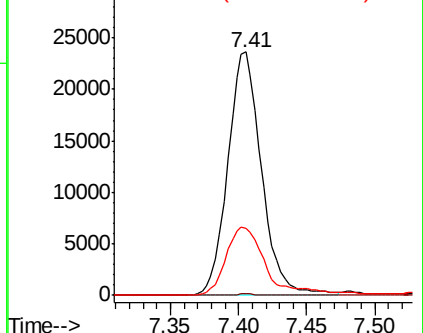
39 27.7 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#56

Ethyl methacrylate

Concen: 0.978 ug/l

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

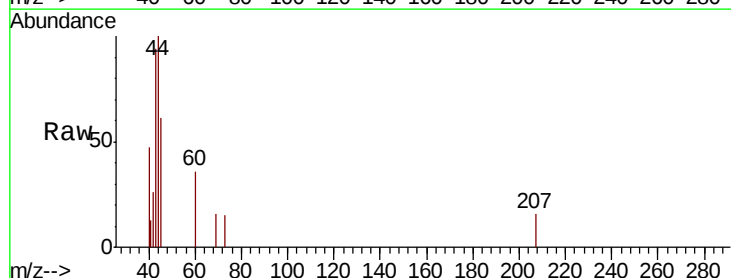
Tgt Ion: 69 Resp: 65

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

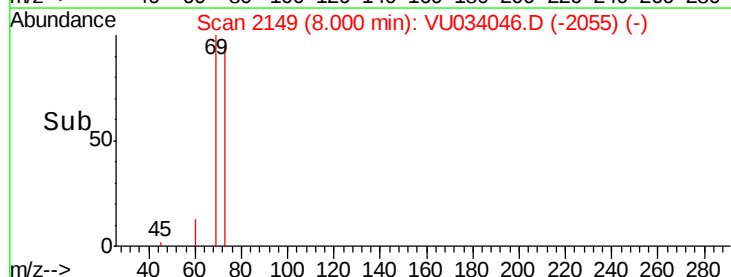
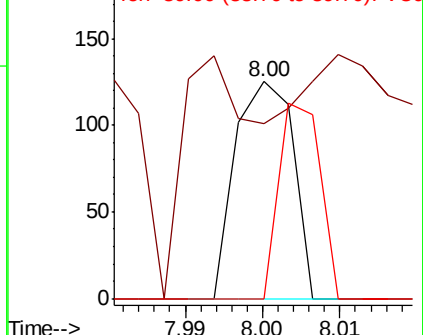
39 0.0 24.2 36.2#

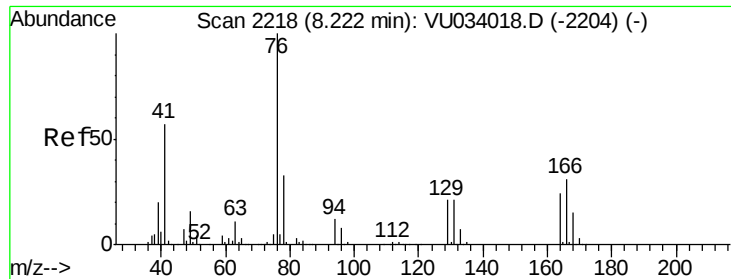


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

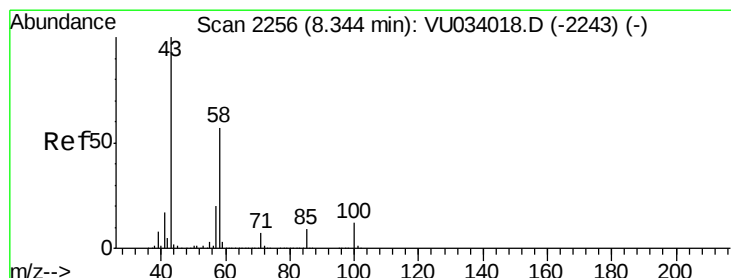
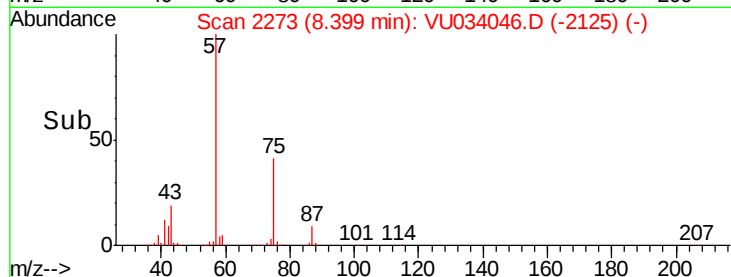
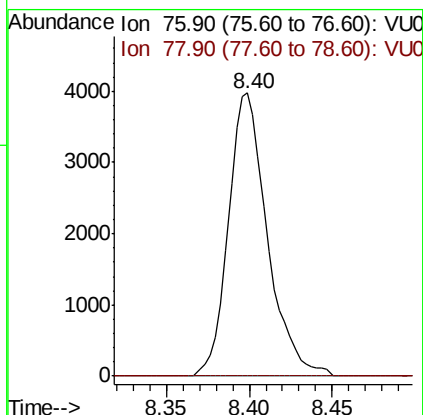
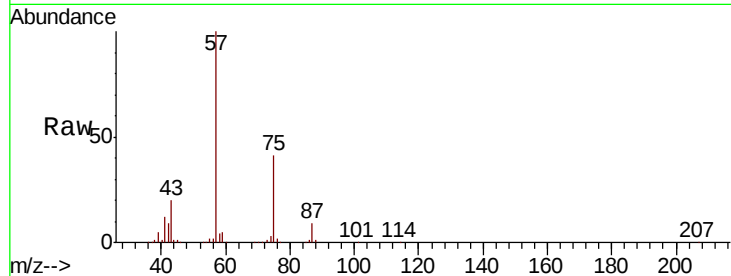




#57
 1,3-Dichloropropane
 Concen: 0.688 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

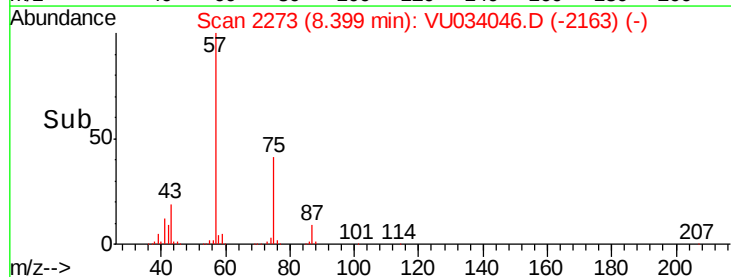
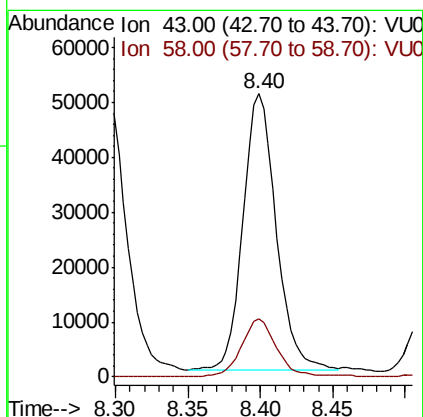
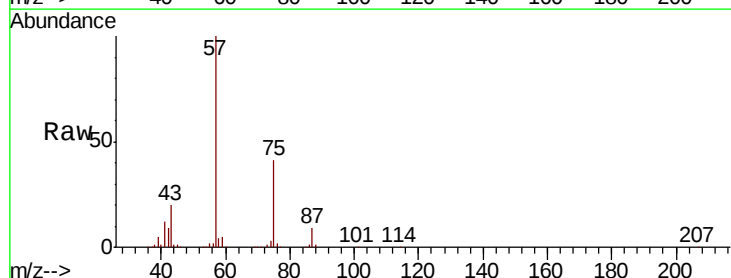
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B2-(1.9)

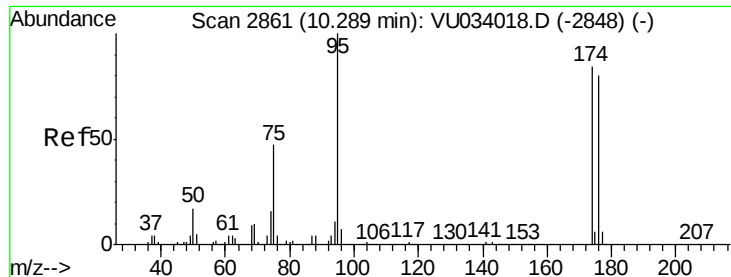
Tgt Ion: 76 Resp: 6479
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 12.788 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.06 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

Tgt Ion: 43 Resp: 79950
 Ion Ratio Lower Upper
 43 100
 58 22.3 28.4 85.3#

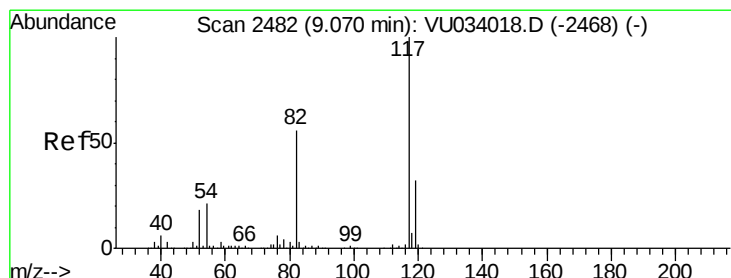
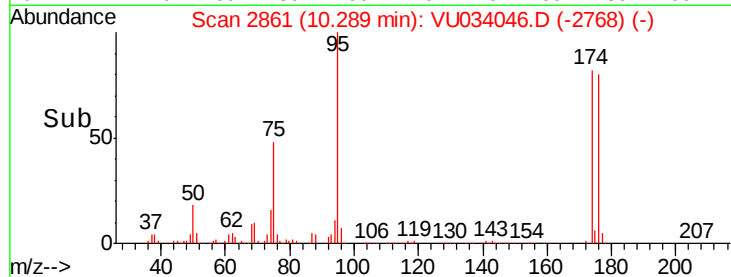
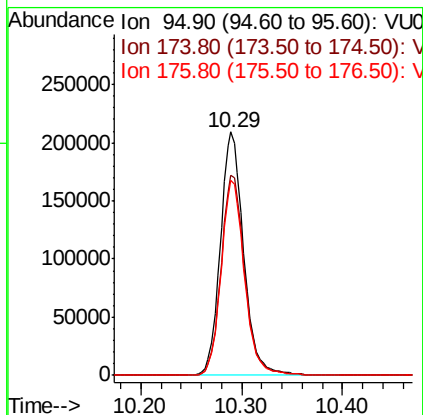
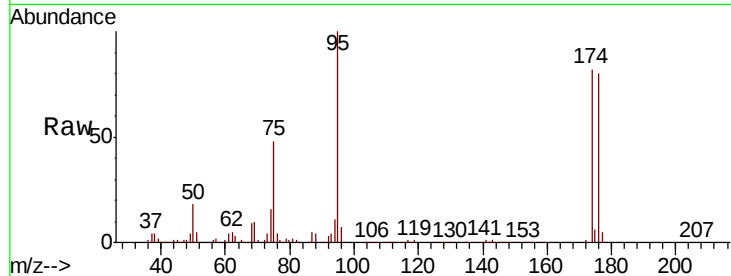




#62
4-Bromofluorobenzene
Concen: 44.952 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

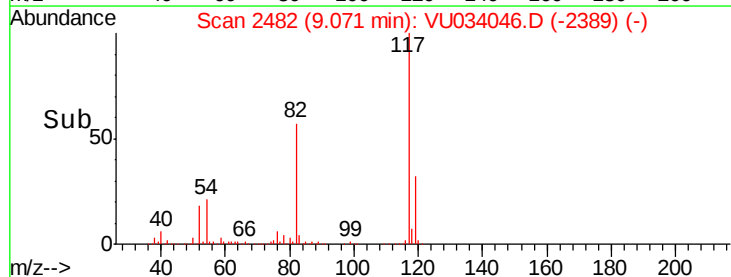
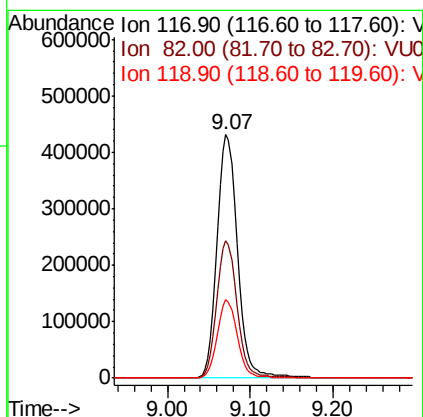
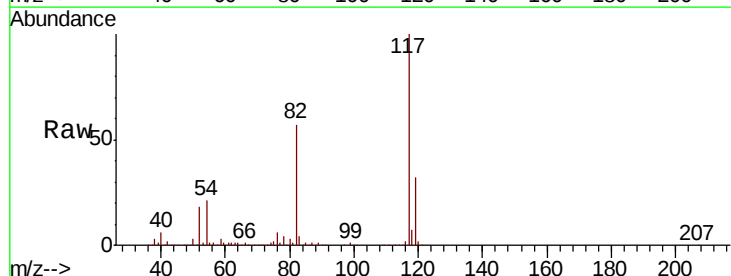
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-B2-(1.9)

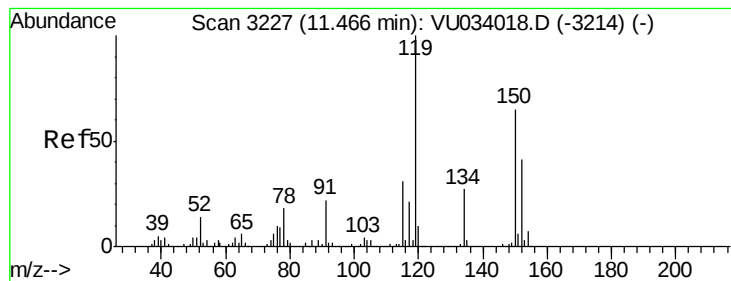
Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.6	0.0	168.8
176	80.4	0.0	161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034046.D
Acq: 29 Aug 2019 00:17

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.1	67.7
119	32.0	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034046.D

Acq: 29 Aug 2019 00:17

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-B2-(1.9)

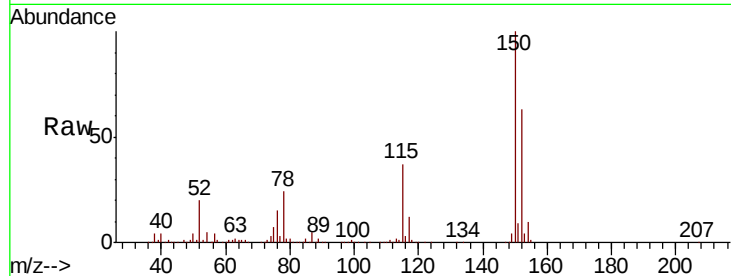
Tgt Ion:152 Resp: 361509

Ion Ratio Lower Upper

152 100

115 57.6 41.1 123.3

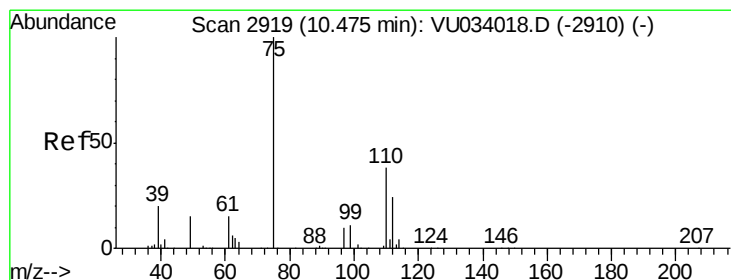
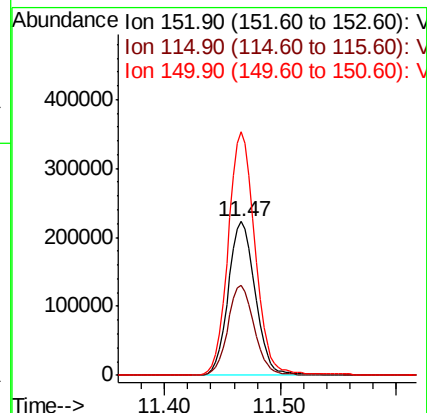
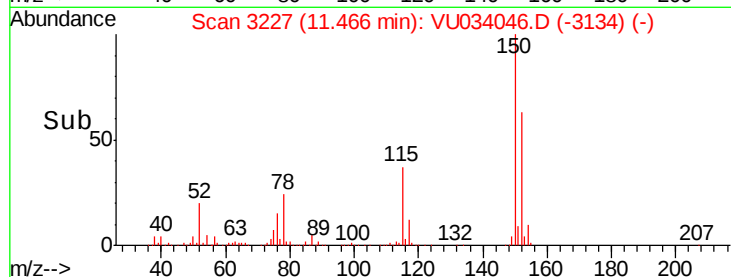
150 157.4 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.079 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034046.D

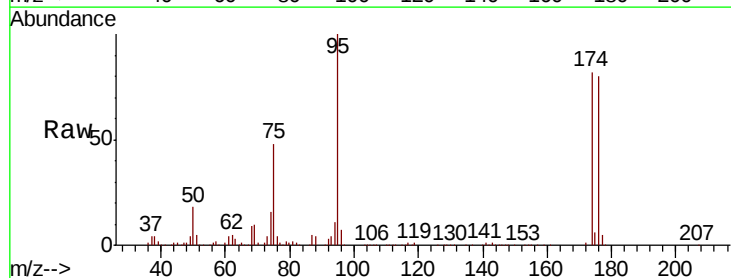
Acq: 29 Aug 2019 00:17

Tgt Ion: 75 Resp: 163602

Ion Ratio Lower Upper

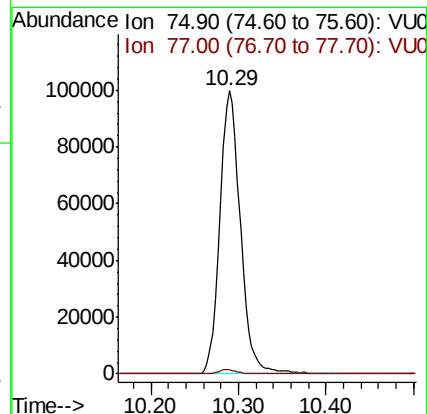
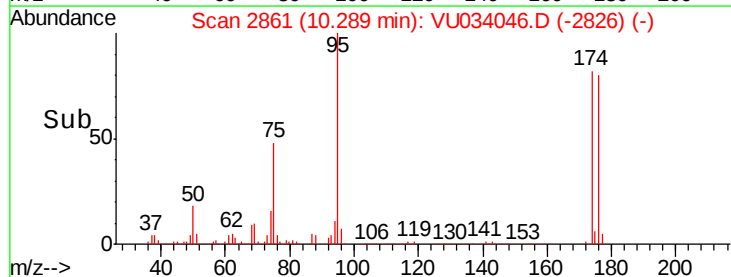
75 100

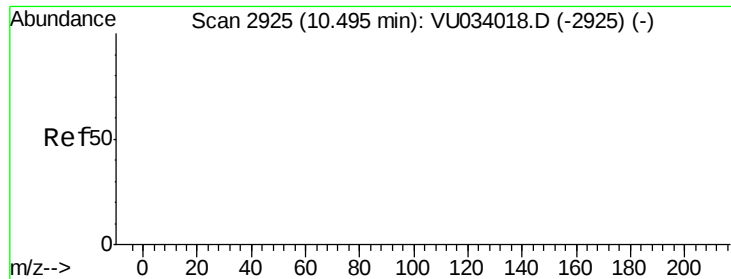
77 1.4 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

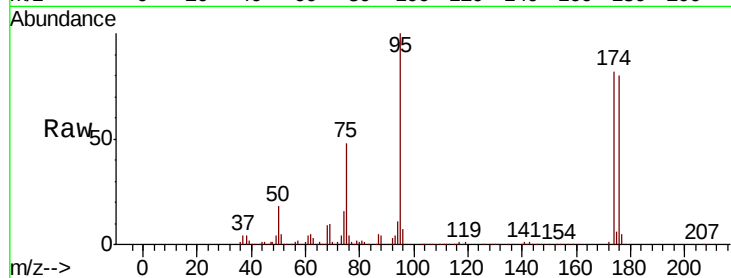




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.612 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034046.D
 Acq: 29 Aug 2019 00:17

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-B2-(1.9)

Tgt Ion: 75 Resp: 163602
 Ion Ratio Lower Upper
 75 100
 53 0.2 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

