

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034148.D
 Acq On : 01 Sep 2019 02:09
 Operator : JC/SP
 Sample : K4526-30
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F1-(1.9)

Quant Time: Sep 01 04:54:13 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	453564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	723328	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	728078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	352751	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	288300	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
35) Dibromofluoromethane	4.86	113	239362	47.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.42%	
50) Toluene-d8	7.55	98	950981	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	
62) 4-Bromofluorobenzene	10.29	95	334741	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	536	Below Cal		96
5) Bromomethane	1.60	94	41	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3115	2.324	ug/l #	73
13) Acrolein	2.19	56	153	0.271	ug/l #	17
16) Acetone	2.31	43	16445	5.546	ug/l	99
18) Methyl Acetate	2.61	43	3142	0.410	ug/l #	82
20) Methylene Chloride	2.69	84	14539	2.590	ug/l	96
31) Cyclohexane	4.96	56	8435	0.972	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33595	4.910	ug/l #	48
38) Carbon Tetrachloride	4.96	117	42672	6.461	ug/l #	17
43) Isopropyl Acetate	5.53	43	64690	5.550	ug/l	99
48) Methyl methacrylate	6.52	41	5096	0.906	ug/l #	14
49) 1,4-Dioxane	6.69	88	72	0.511	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	63690	7.912	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	32898	3.778	ug/l #	63
56) Ethyl methacrylate	7.90	69	90	0.981	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5213	0.569	ug/l #	42
59) 2-Hexanone	8.29	43	80104	13.182	ug/l #	23
74) N-amyl acetate	9.92	43	2413	0.242	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	158332	19.915	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	158332	67.059	ug/l #	100
95) Naphthalene	13.79	128	21	1.791	ug/l #	70

(#) = 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

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

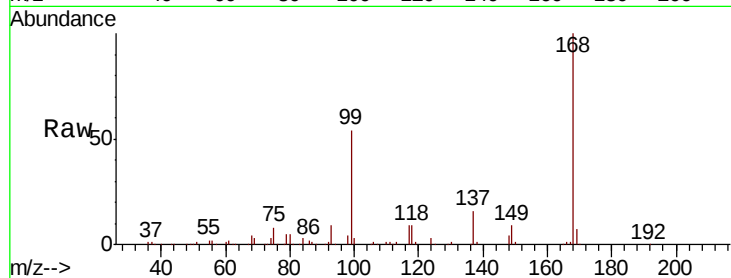
T9-12-13-F1-(1.9)

Tgt Ion:168 Resp: 453564

Ion Ratio Lower Upper

168 100

99 54.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034148.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034148.D (-1185) (-)

4.96

200000

150000

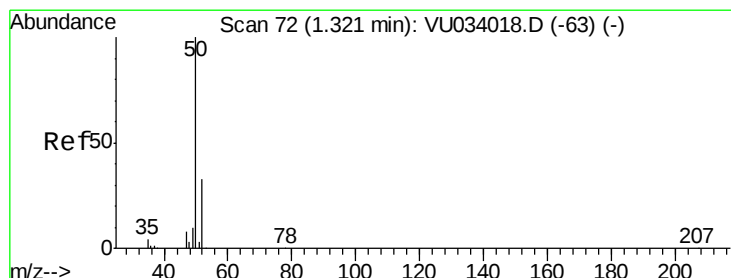
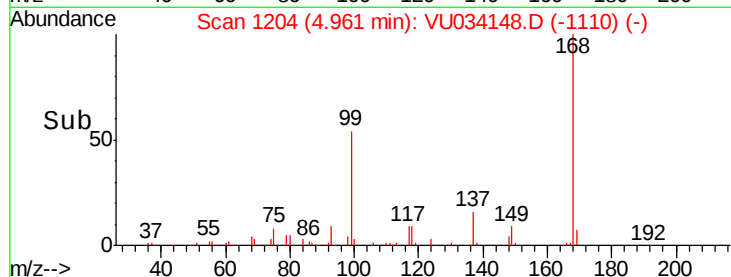
100000

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: VU034148.D

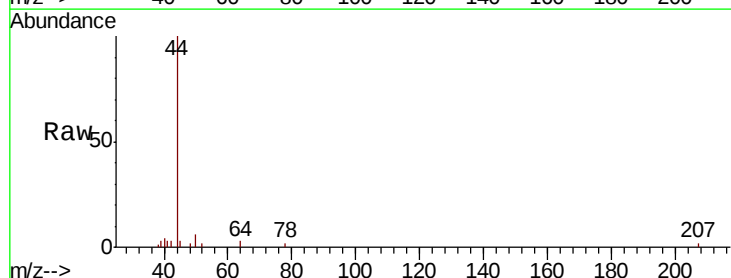
Acq: 01 Sep 2019 02:09

Tgt Ion: 50 Resp: 536

Ion Ratio Lower Upper

50 100

52 34.9 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034148.D (-1185) (-)

Ion 51.90 (51.60 to 52.60): VU034148.D (-1185) (-)

1.32

600

500

400

300

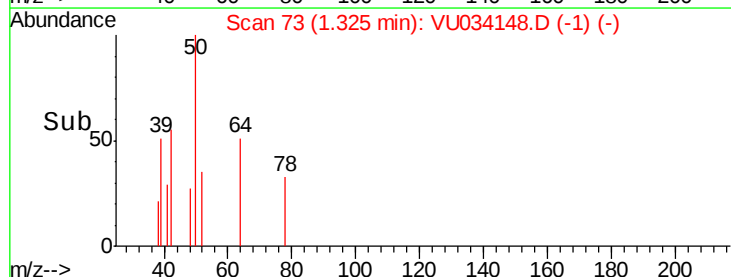
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

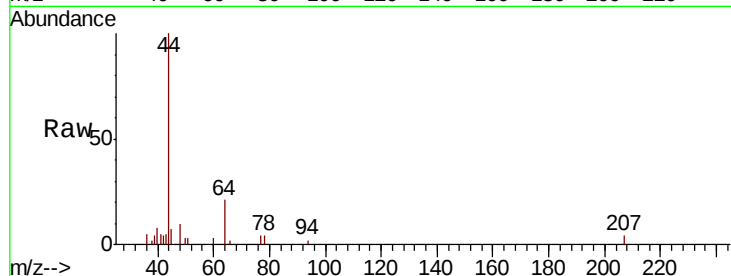
T9-12-13-F1-(1.9)

Tgt Ion: 94 Resp: 41

Ion Ratio Lower Upper

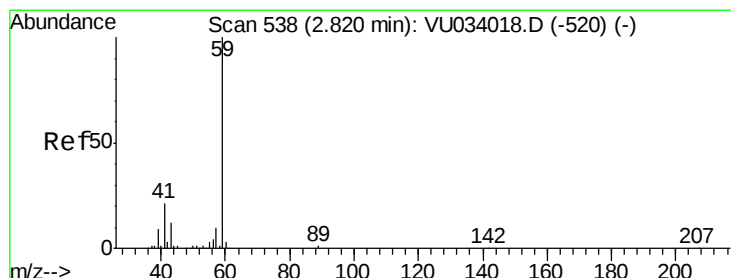
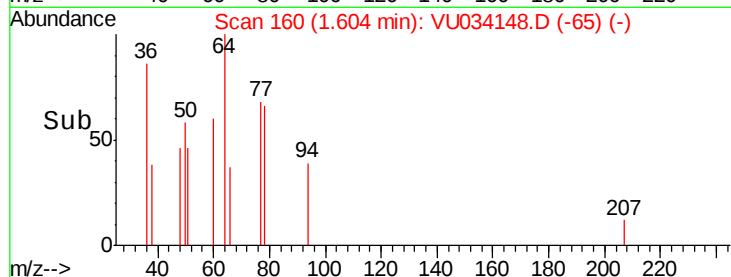
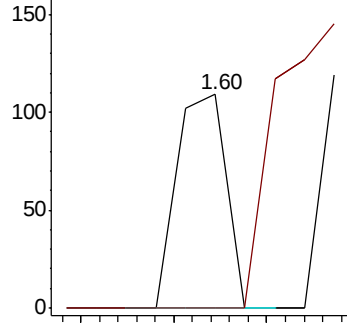
94 100

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



#11

Tert butyl alcohol

Concen: 2.324 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034148.D

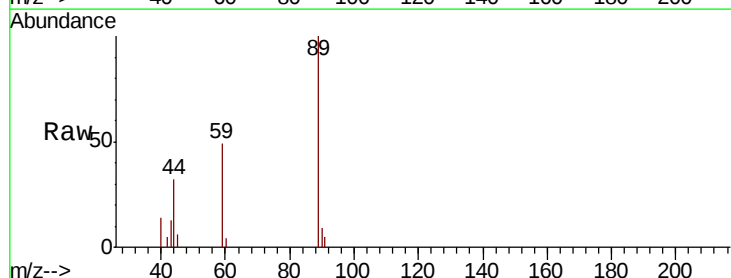
Acq: 01 Sep 2019 02:09

Tgt Ion: 59 Resp: 3115

Ion Ratio Lower Upper

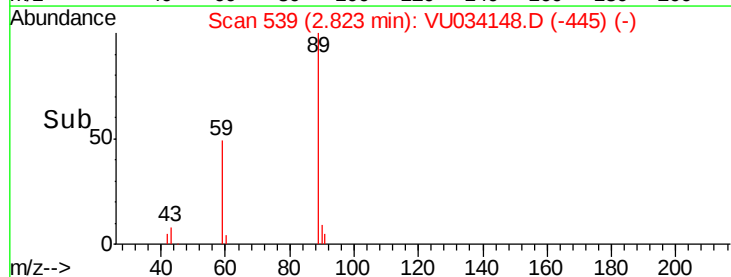
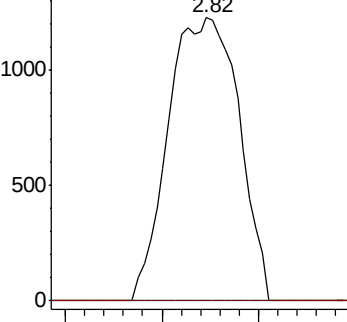
59 100

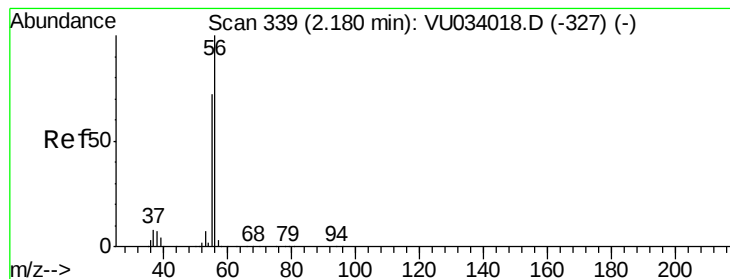
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.271 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

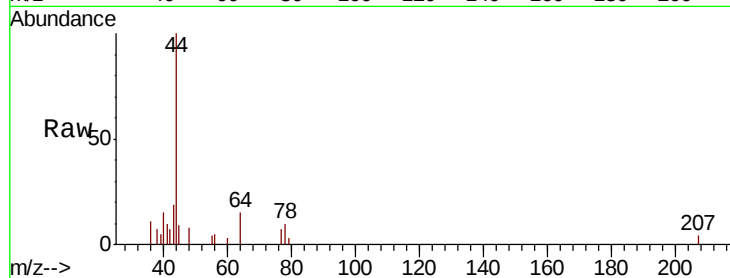
T9-12-13-F1-(1.9)

Tgt Ion: 56 Resp: 153

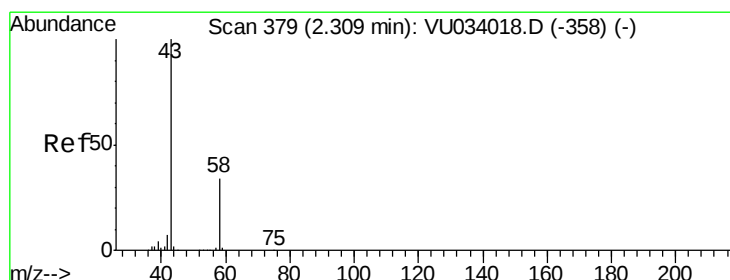
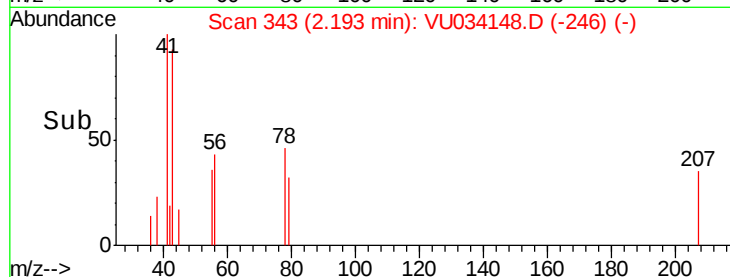
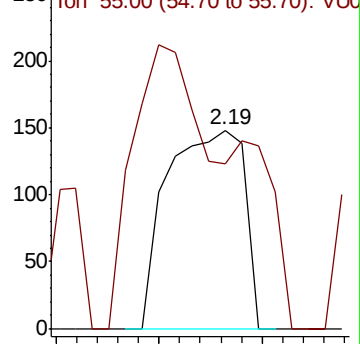
Ion Ratio Lower Upper

56 100

55 140.5 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034148.D (-343) (-)



#16

Acetone

Concen: 5.546 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034148.D

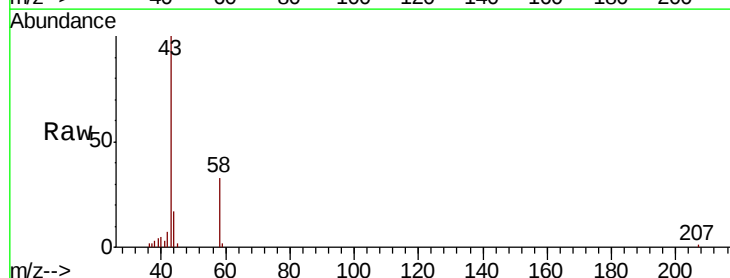
Acq: 01 Sep 2019 02:09

Tgt Ion: 43 Resp: 16445

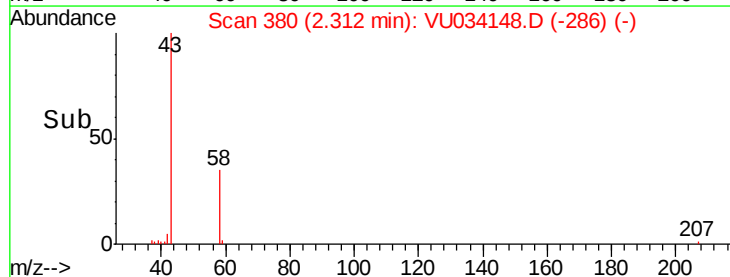
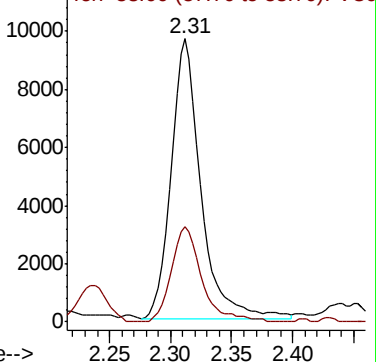
Ion Ratio Lower Upper

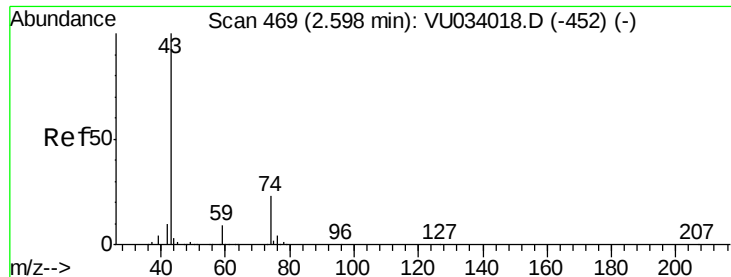
43 100

58 33.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034148.D (-380) (-)

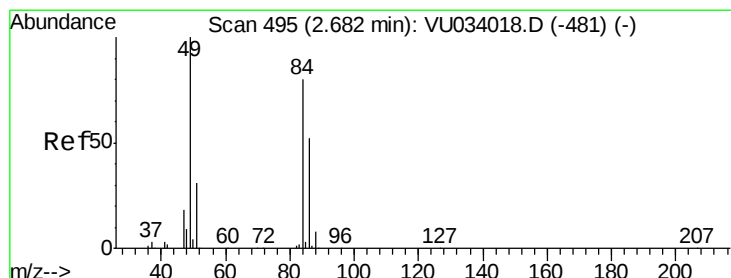
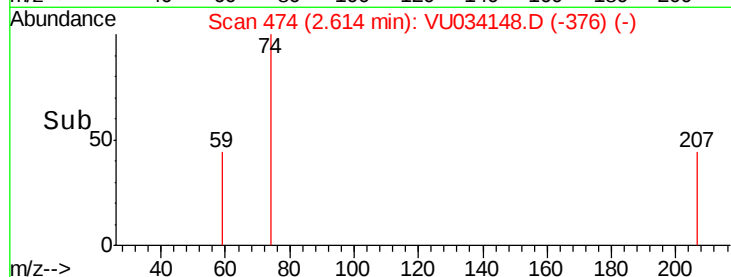
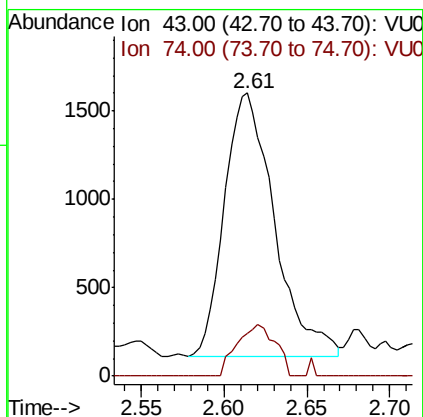
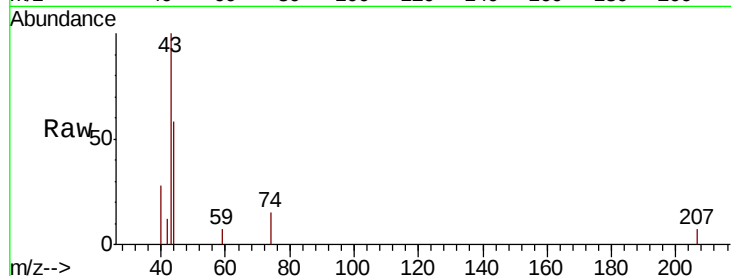




#18
Methyl Acetate
Concen: 0.410 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

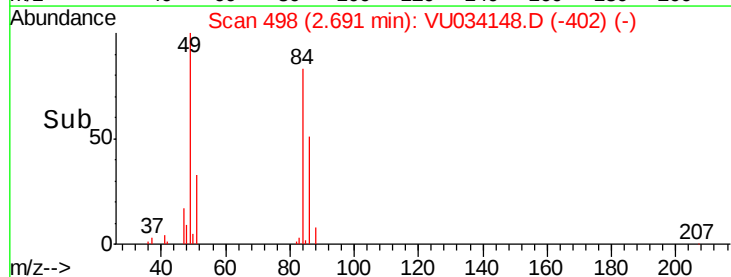
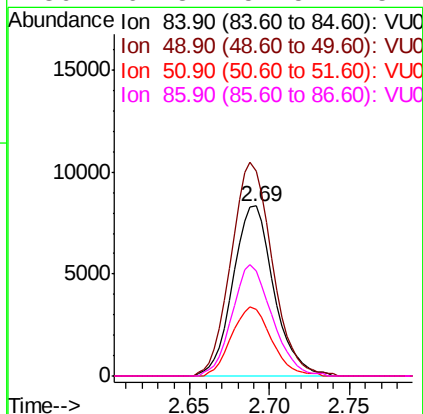
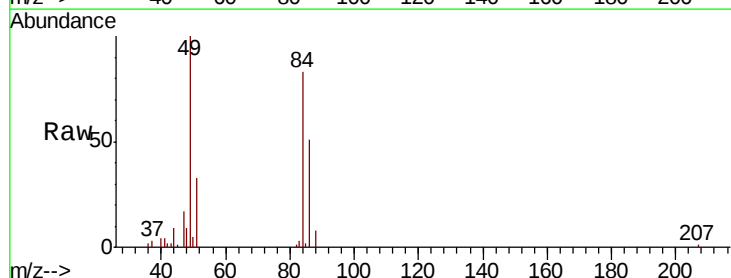
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(1.9)

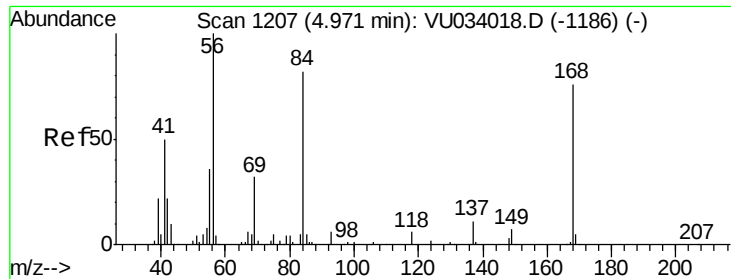
Tgt Ion: 43 Resp: 3142
Ion Ratio Lower Upper
43 100
74 15.0 19.2 28.8#



#20
Methylene Chloride
Concen: 2.590 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

Tgt Ion: 84 Resp: 14539
Ion Ratio Lower Upper
84 100
49 120.4 100.2 150.4
51 39.5 30.8 46.2
86 61.8 52.5 78.7





#31

Cyclohexane

Concen: 0.972 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(1.9)

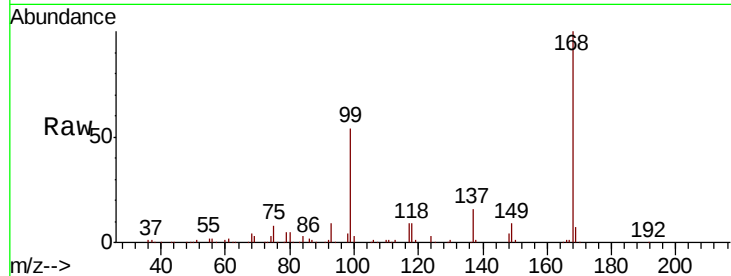
Tgt Ion: 56 Resp: 8435

Ion Ratio Lower Upper

56 100

69 176.6 25.4 38.0#

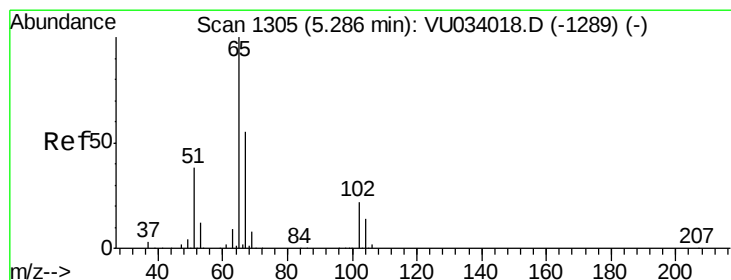
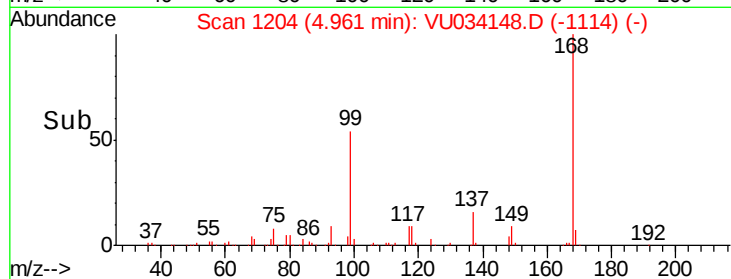
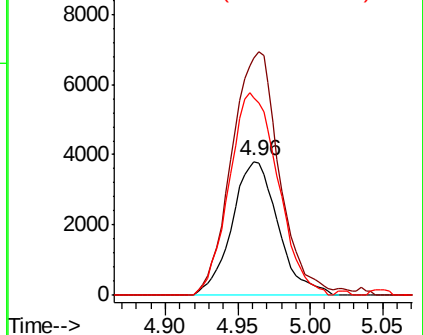
84 147.8 65.8 98.8#



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: 49.607 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VU034148.D

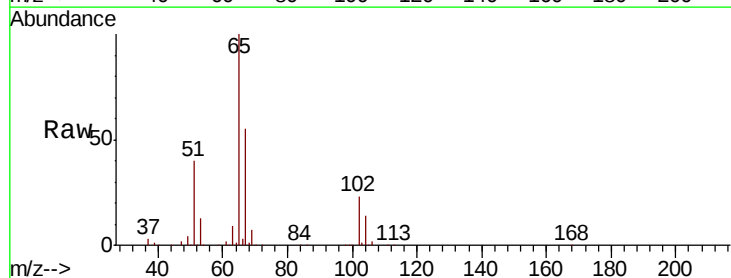
Acq: 01 Sep 2019 02:09

Tgt Ion: 65 Resp: 288300

Ion Ratio Lower Upper

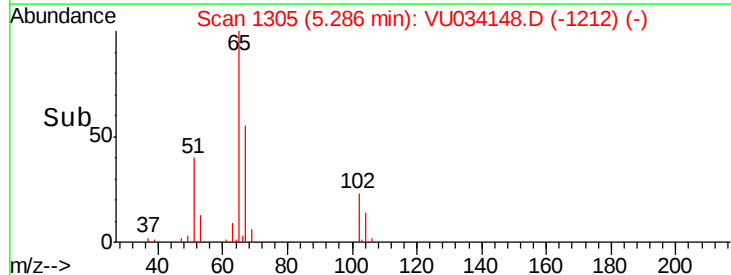
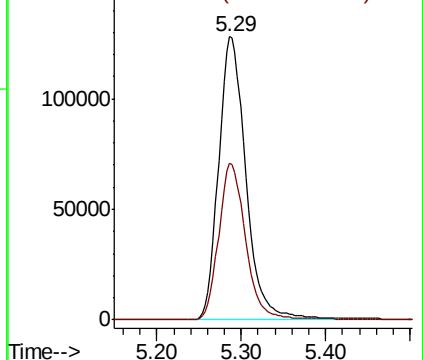
65 100

67 54.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

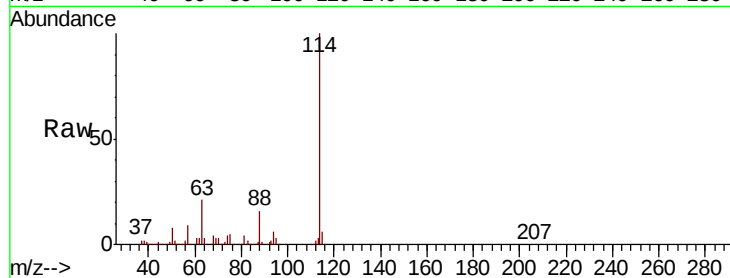




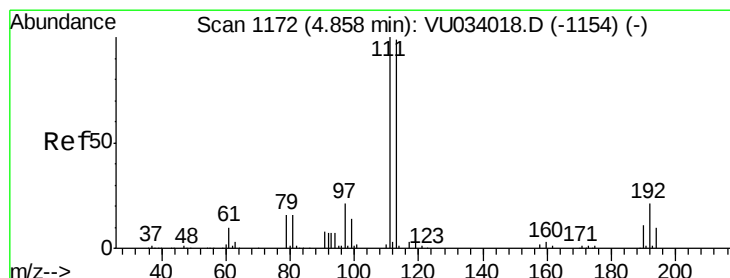
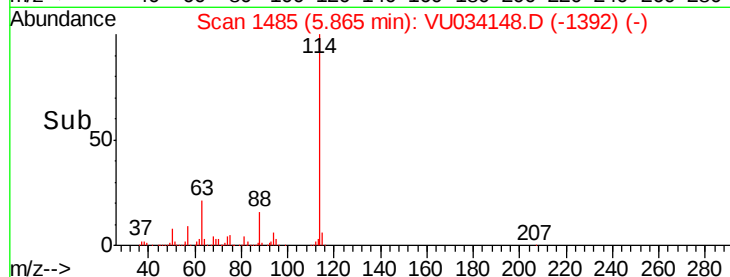
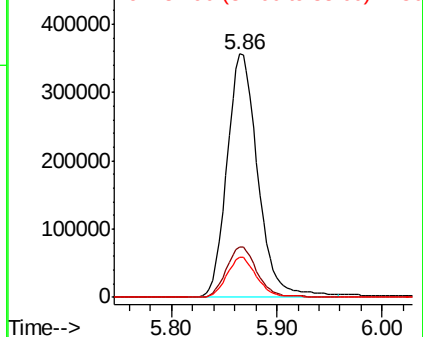
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VU034148.D
 Acq: 01 Sep 2019 02:09

Instrument :
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Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.0
88	16.3	0.0	32.0

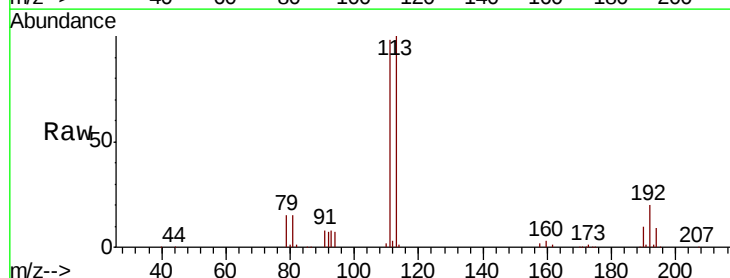


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

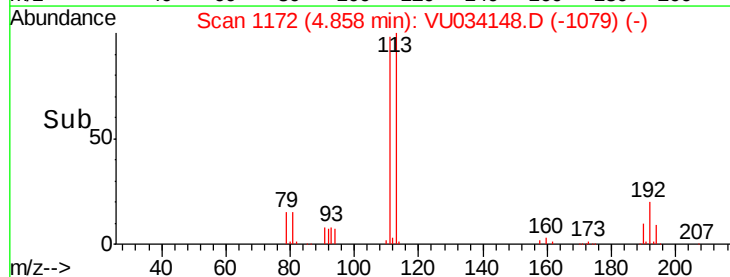
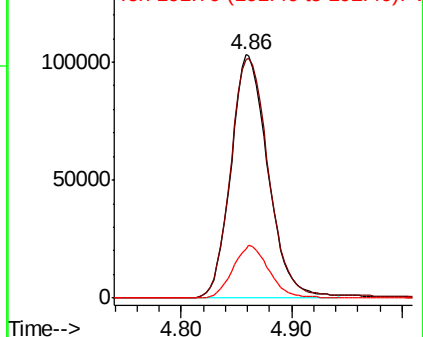


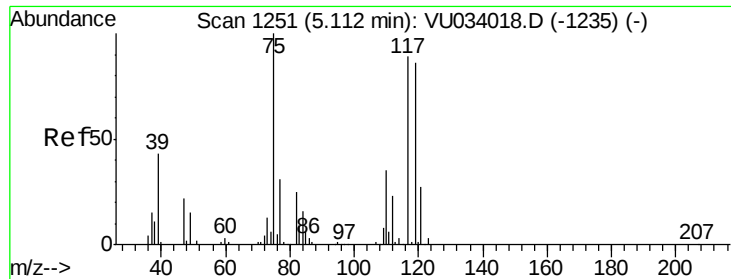
#35
 Dibromofluoromethane
 Concen: 47.711 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034148.D
 Acq: 01 Sep 2019 02:09

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.7	122.5
192	21.2	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

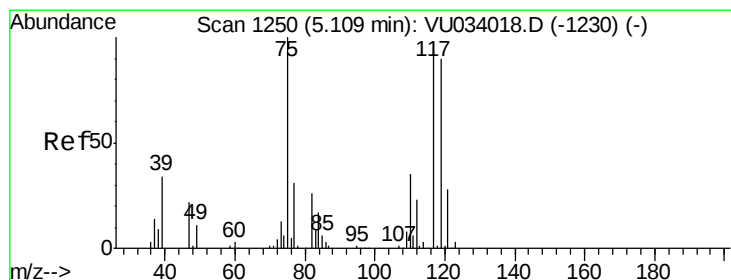
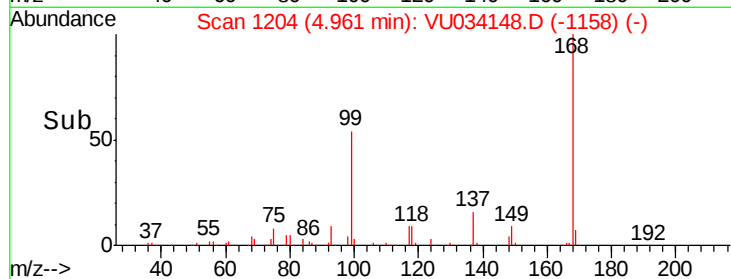
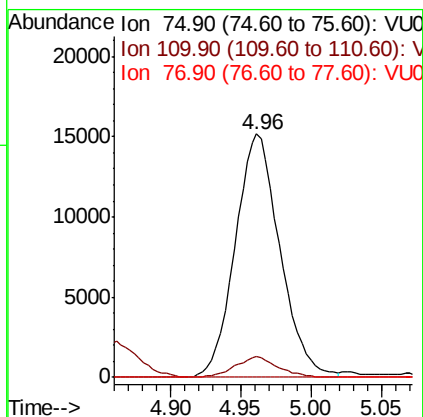
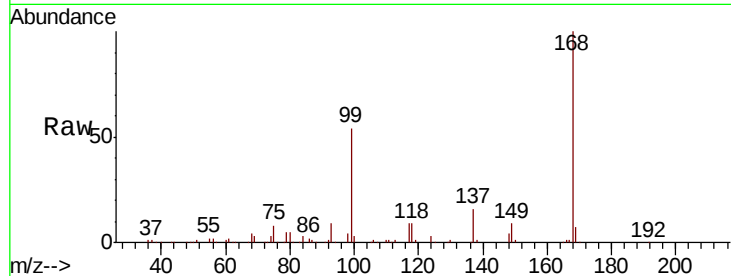




#36
 1,1-Dichloropropene
 Concen: 4.910 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034148.D
 Acq: 01 Sep 2019 02:09

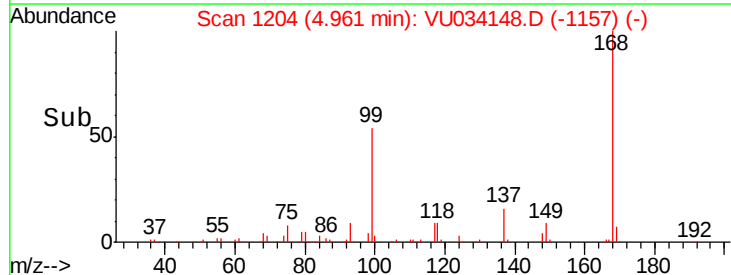
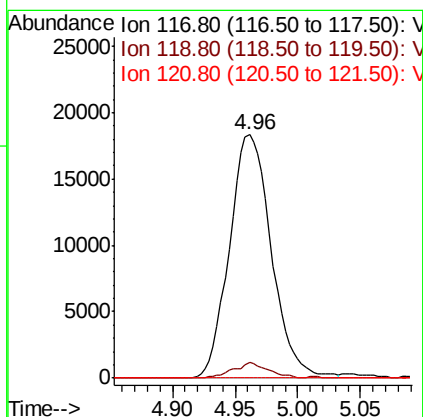
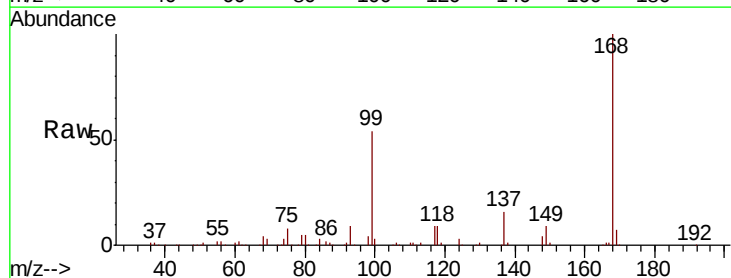
Instrument :
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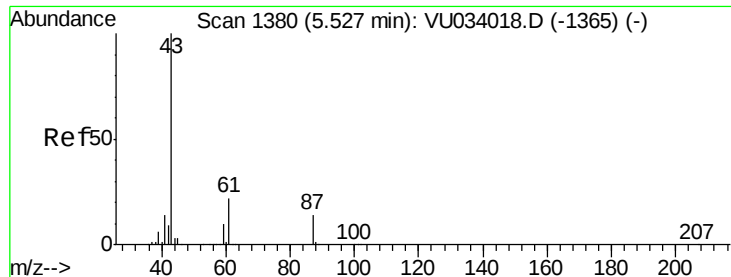
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.461 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034148.D
 Acq: 01 Sep 2019 02:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.0	115.4#
121	0.0	23.9	35.9#

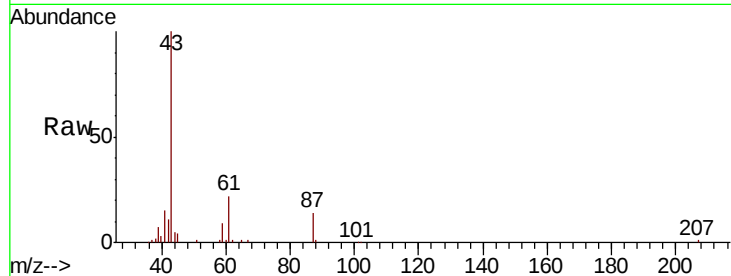




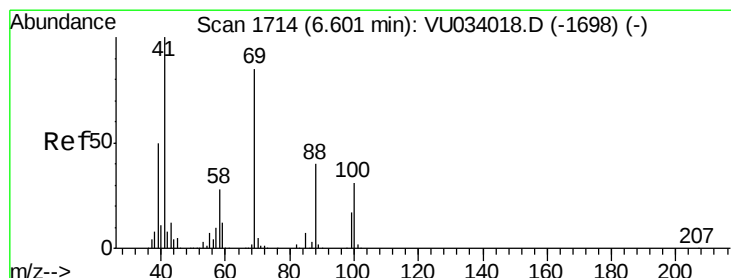
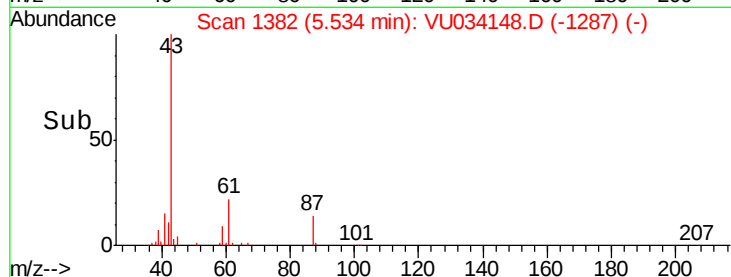
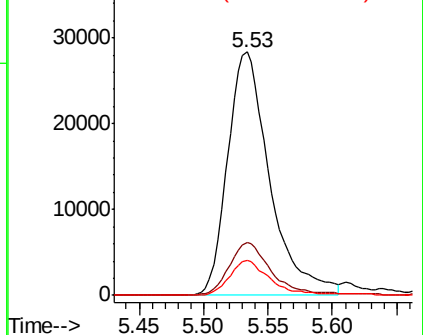
#43
Isopropyl Acetate
Concen: 5.550 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(1.9)

Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.9	17.2	25.8
87	13.7	10.8	16.2

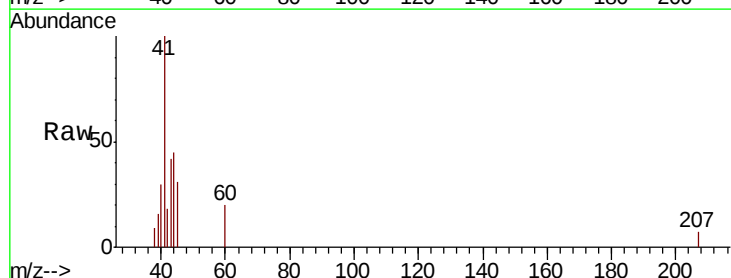


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0

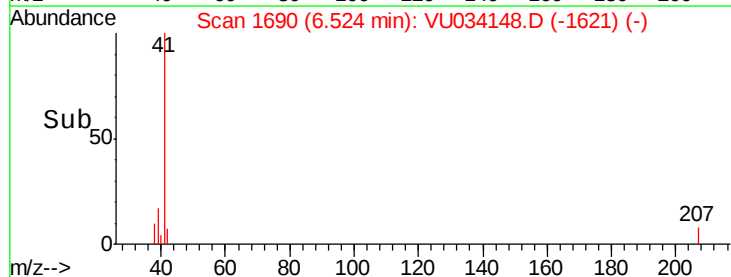
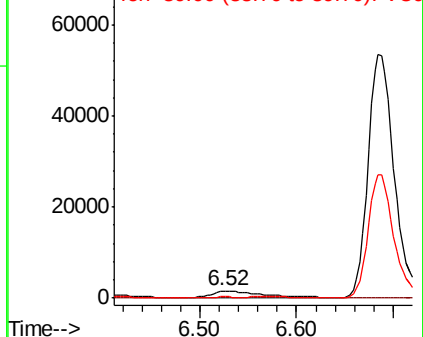


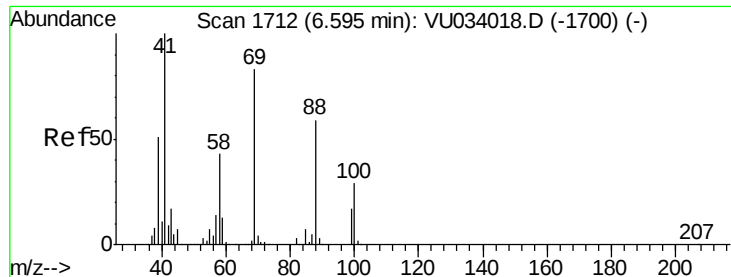
#48
Methyl methacrylate
Concen: 0.906 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

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



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0





#49

1,4-Dioxane

Concen: 0.511 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(1.9)

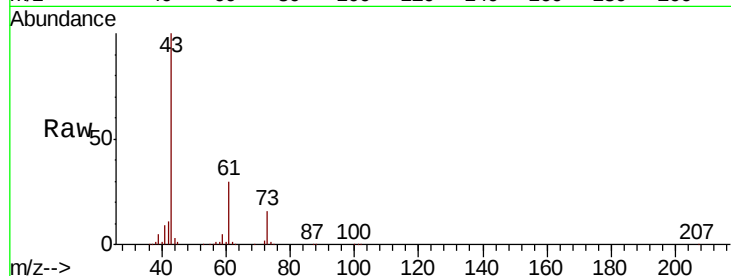
Tgt Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 1543962.5 24.8 37.2#

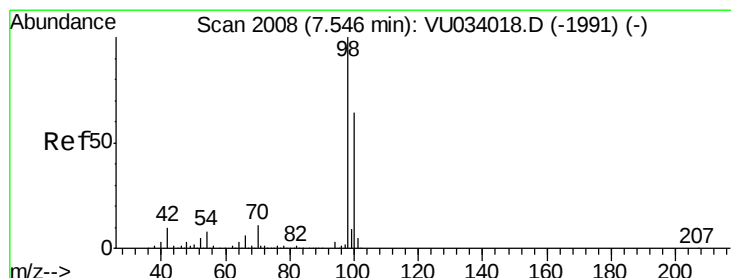
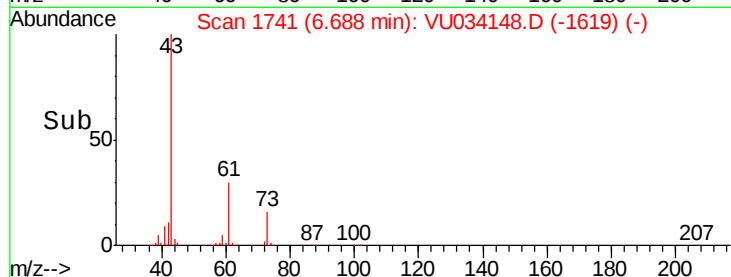
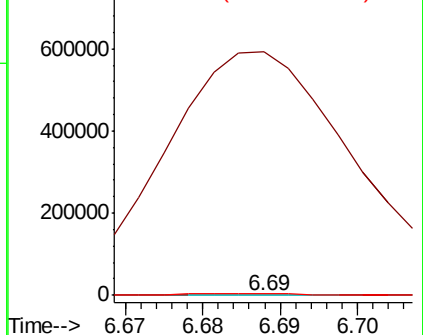
58 8915.3 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034148.D (-1741) (-)

Ion 43.00 (42.70 to 43.70): VU034148.D (-1741) (-)

Ion 58.00 (57.70 to 58.70): VU034148.D (-1741) (-)



#50

Toluene-d8

Concen: 50.624 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034148.D

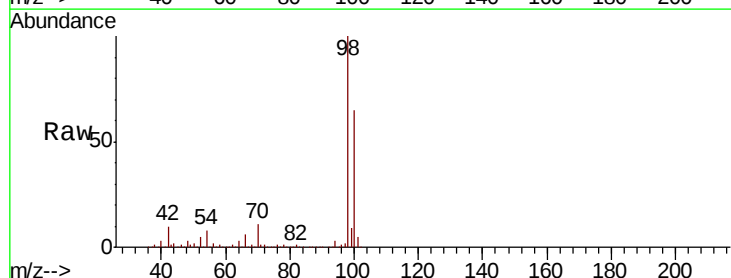
Acq: 01 Sep 2019 02:09

Tgt Ion: 98 Resp: 950981

Ion Ratio Lower Upper

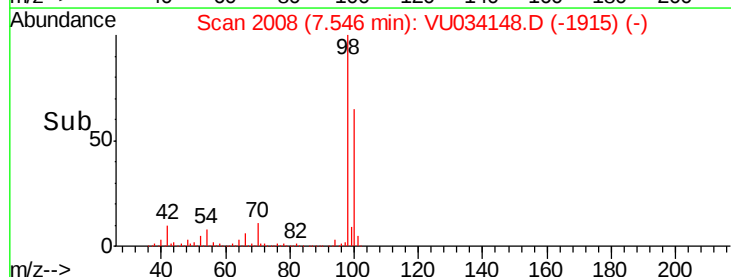
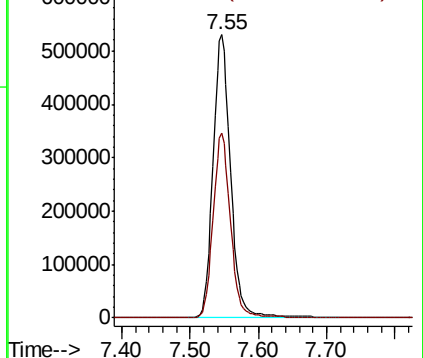
98 100

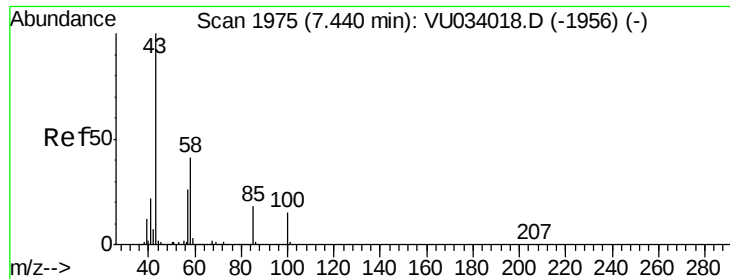
100 64.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034148.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034148.D (-2008) (-)





#51

4-Methyl-2-Pentanone

Concen: 7.912 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

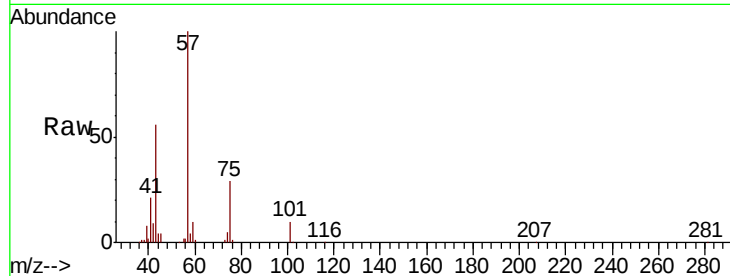
T9-12-13-F1-(1.9)

Tgt Ion: 43 Resp: 63690

Ion Ratio Lower Upper

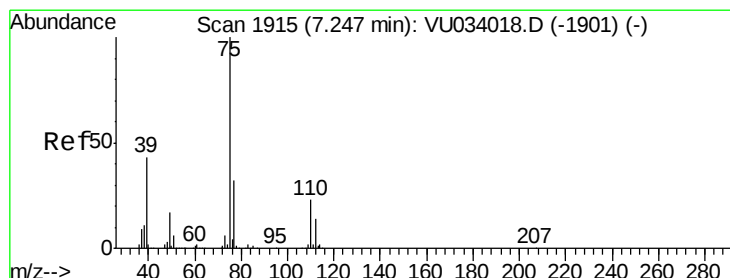
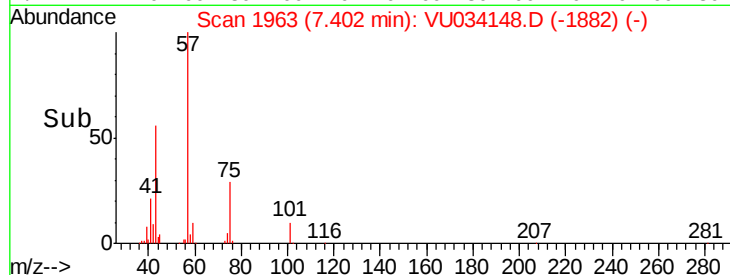
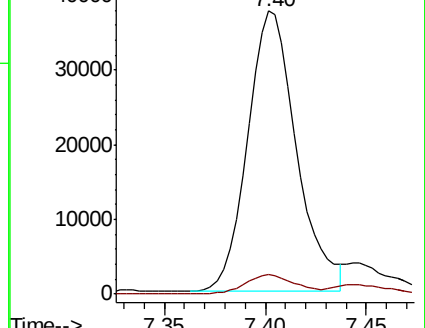
43 100

58 7.1 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034148.D (-1963) (-)

Ion 58.00 (57.70 to 58.70): VU034148.D (-1963) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.778 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

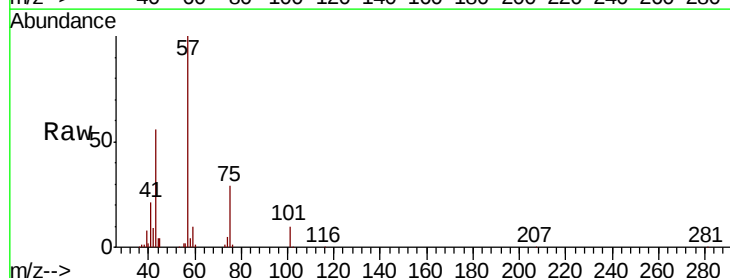
Tgt Ion: 75 Resp: 32898

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

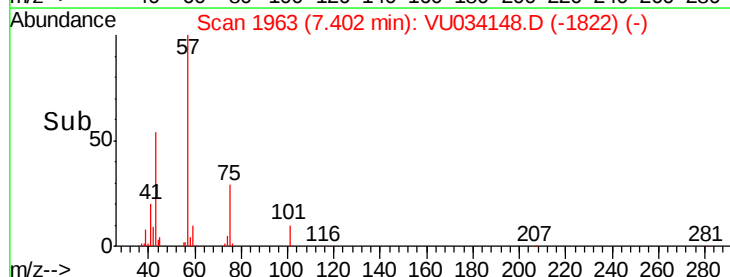
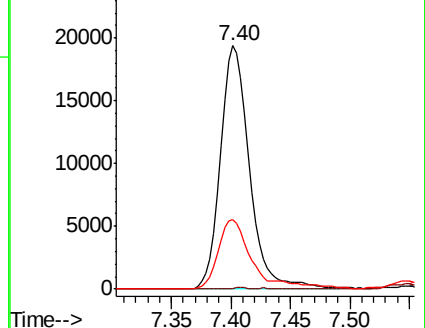
39 28.6 34.6 51.8#

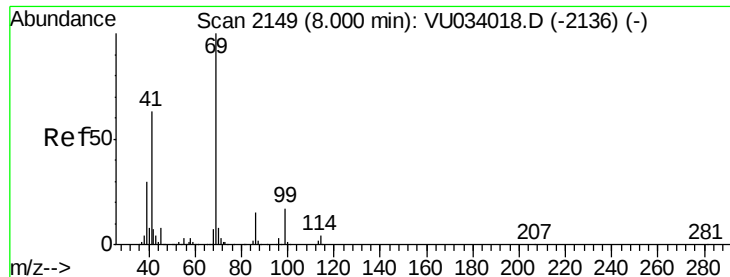


Abundance Ion 74.90 (74.60 to 75.60): VU034148.D (-1963) (-)

Ion 76.90 (76.60 to 77.60): VU034148.D (-1963) (-)

Ion 39.00 (38.70 to 39.70): VU034148.D (-1963) (-)





#56

Ethyl methacrylate

Concen: 0.981 ug/l

RT: 7.90 min Scan# 2117

Delta R.T. -0.10 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

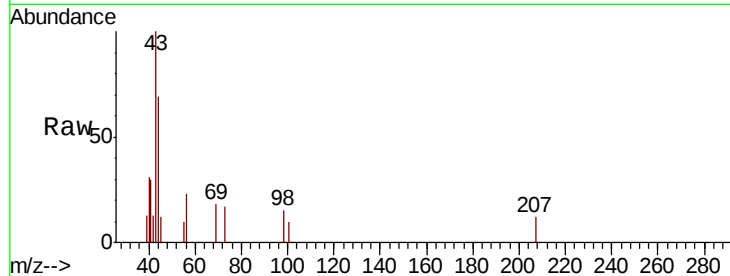
Instrument :

MSVOA_U

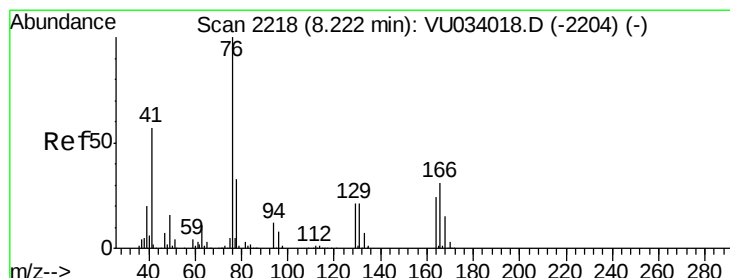
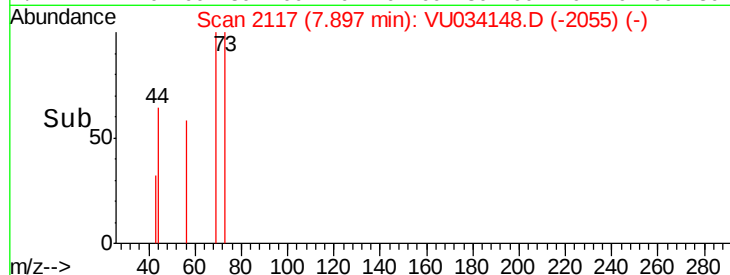
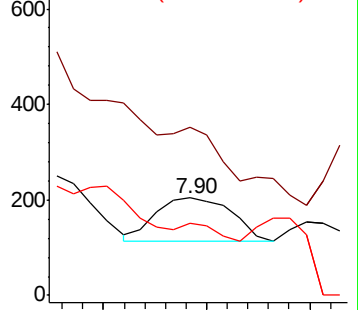
ClientSampleId :

T9-12-13-F1-(1.9)

Tgt Ion:	69	Resp:	90
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): VU034148.D (-2136) (-)



#57

1,3-Dichloropropane

Concen: 0.569 ug/l

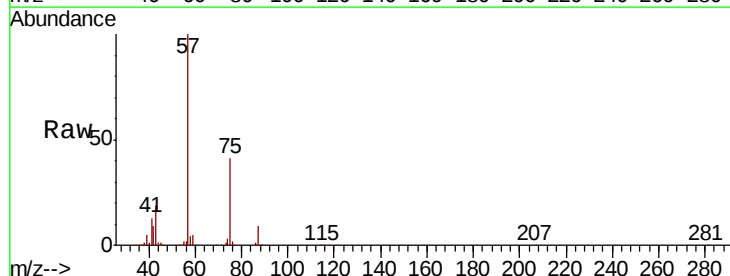
RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

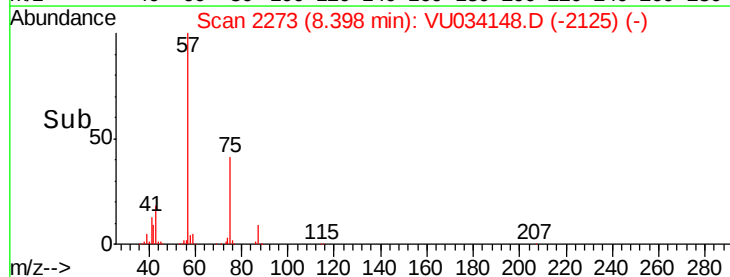
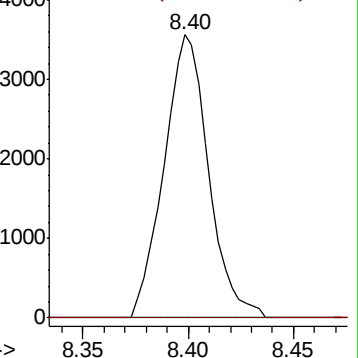
Lab File: VU034148.D

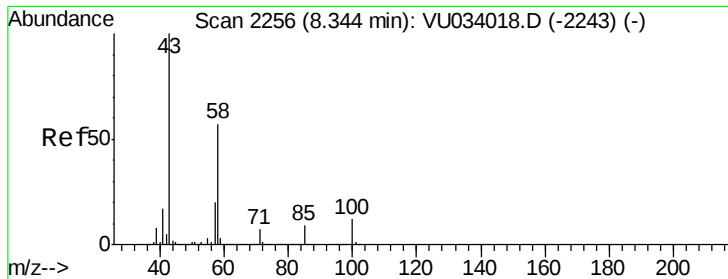
Acq: 01 Sep 2019 02:09

Tgt Ion:	76	Resp:	5213
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034148.D (-2204) (-)

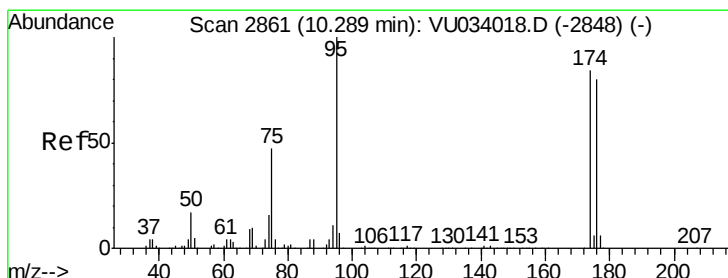
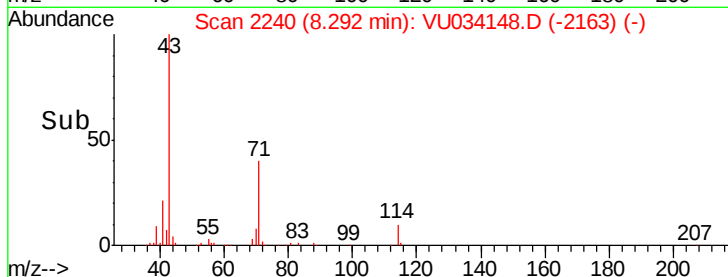
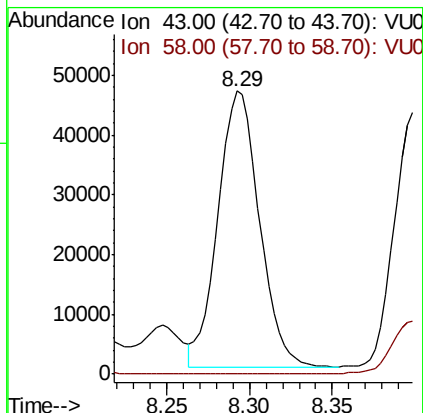
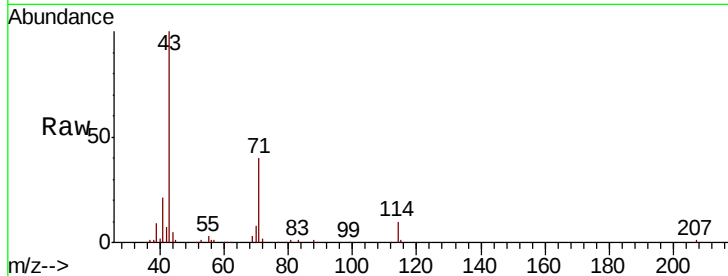




#59
2-Hexanone
Concen: 13.182 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

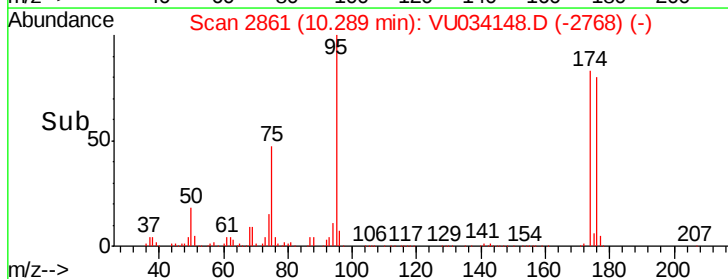
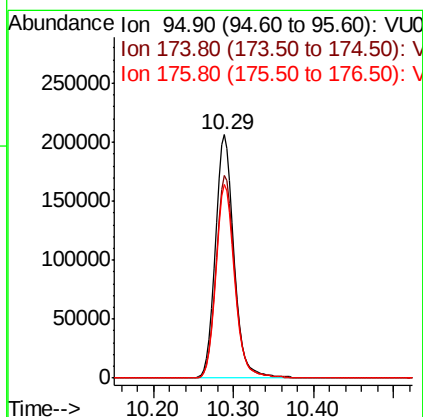
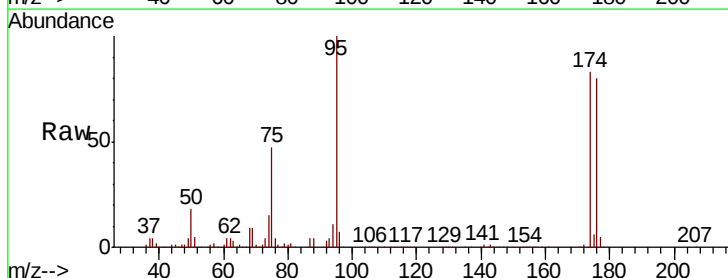
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(1.9)

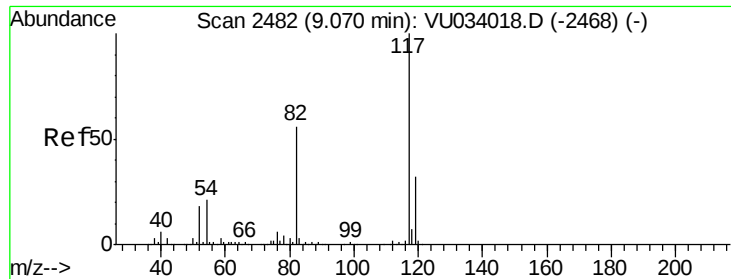
Tgt Ion: 43 Resp: 80104
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.809 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

Tgt Ion: 95 Resp: 334741
Ion Ratio Lower Upper
95 100
174 84.5 0.0 168.8
176 80.1 0.0 161.8

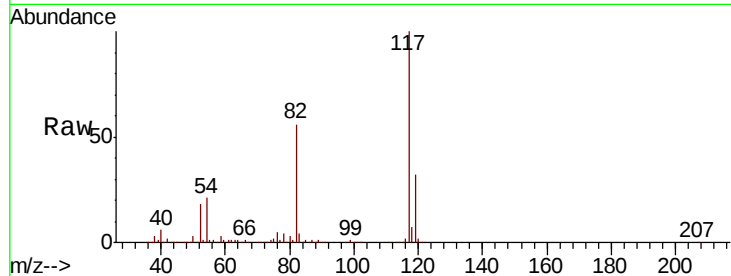




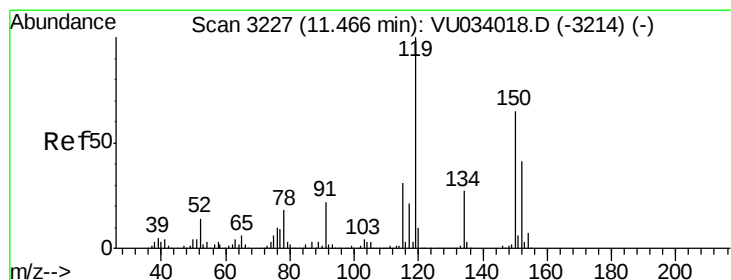
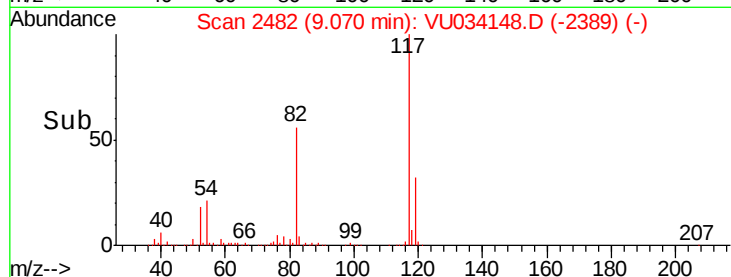
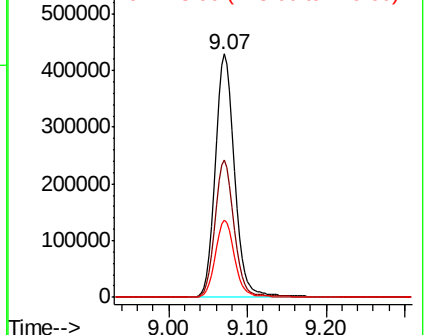
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(1.9)

Tgt Ion:117 Resp: 728078
Ion Ratio Lower Upper
117 100
82 56.4 45.1 67.7
119 31.8 25.4 38.0

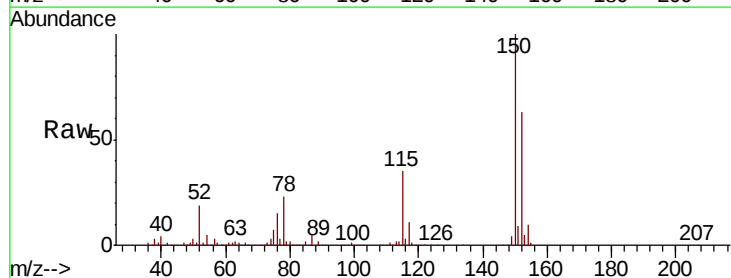


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

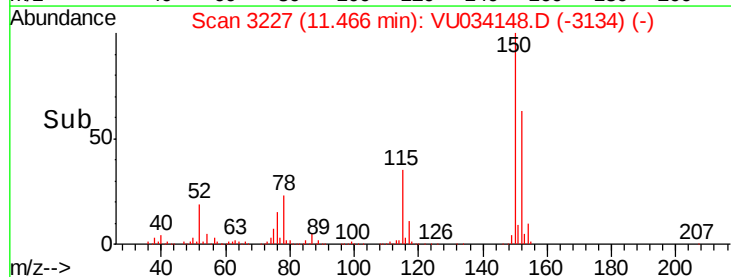
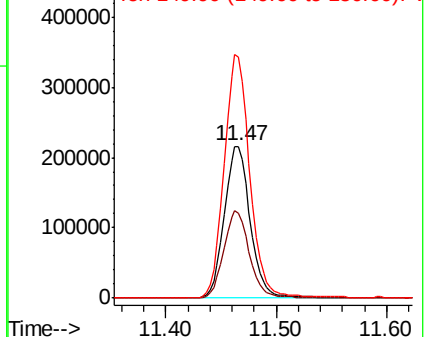


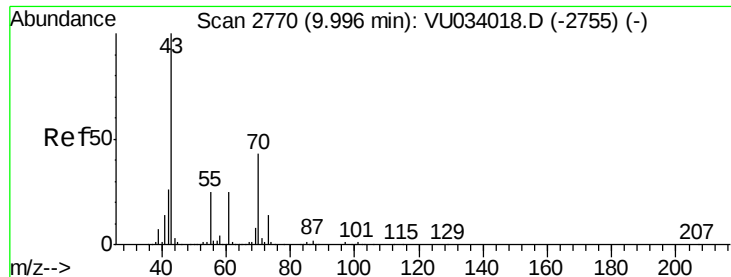
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VU034148.D
Acq: 01 Sep 2019 02:09

Tgt Ion:152 Resp: 352751
Ion Ratio Lower Upper
152 100
115 56.6 41.1 123.3
150 158.3 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





#74

N-ethyl acetate

Concen: 0.242 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034148.D

Acq: 01 Sep 2019 02:09

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(1.9)

Tgt Ion: 43 Resp: 2413

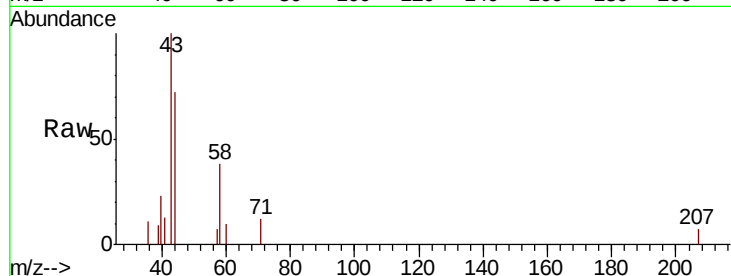
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 1.7 20.5 30.7#

61 0.0 20.0 30.0#

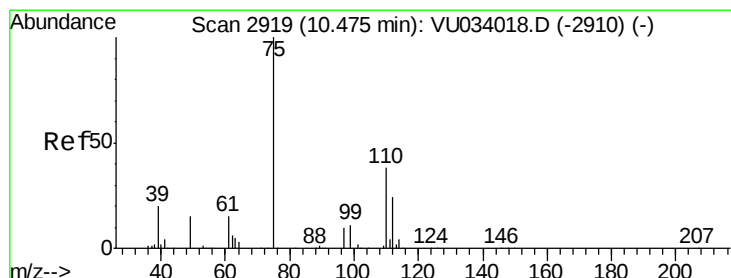
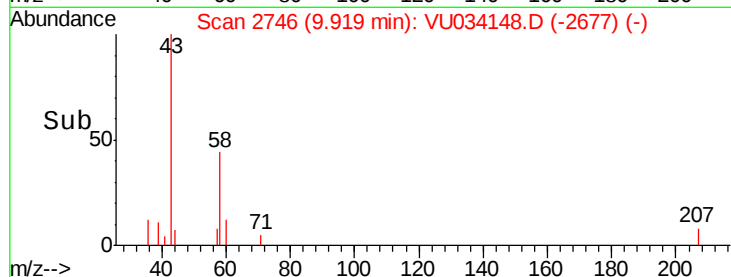
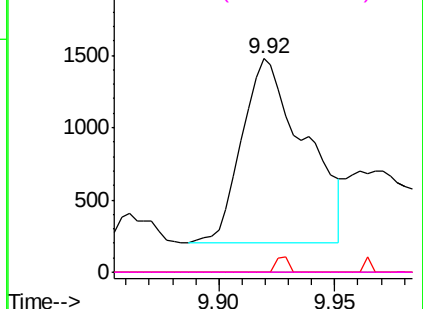


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 19.915 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034148.D

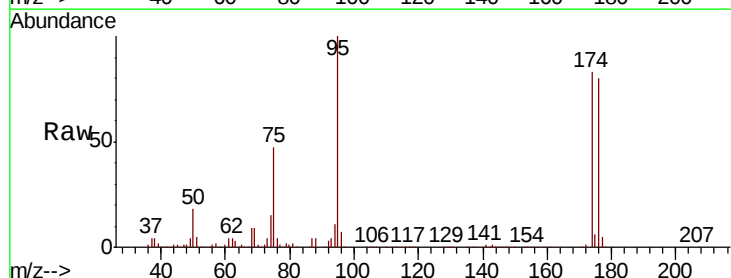
Acq: 01 Sep 2019 02:09

Tgt Ion: 75 Resp: 158332

Ion Ratio Lower Upper

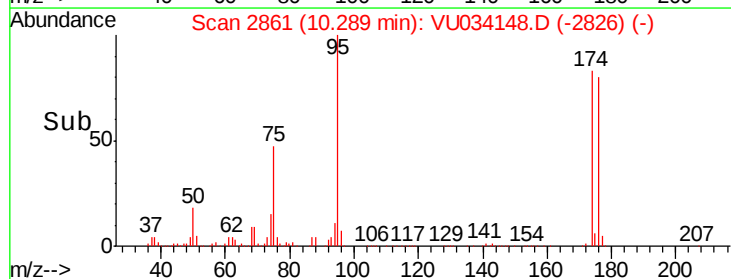
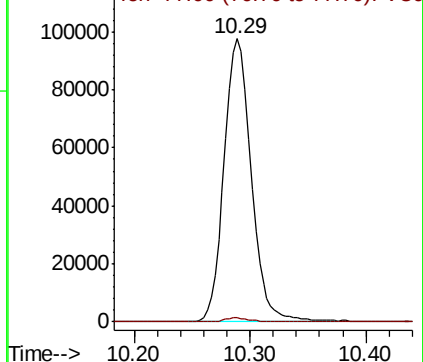
75 100

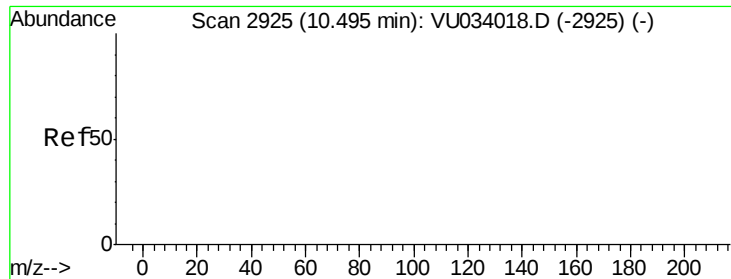
77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

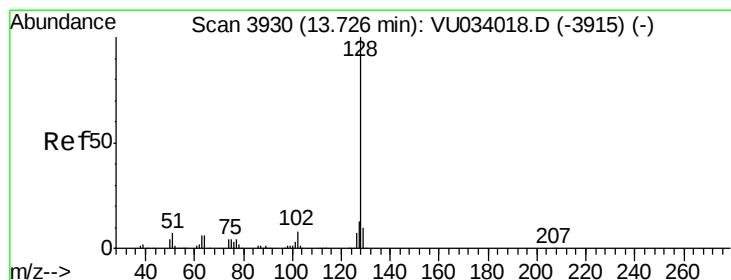
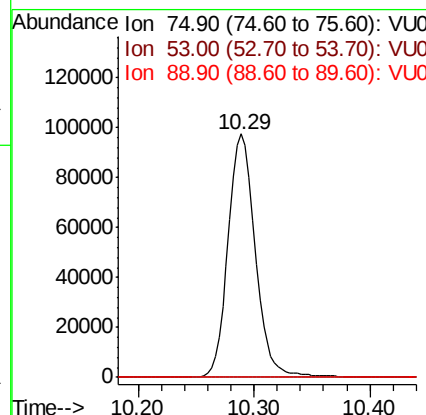
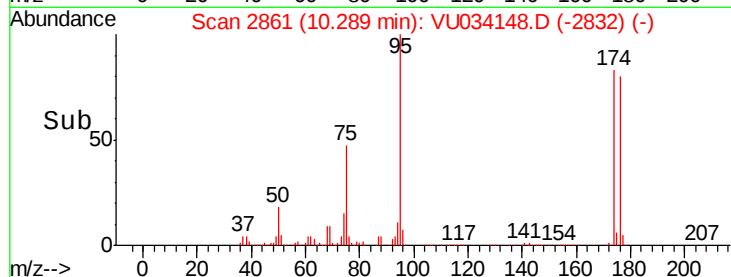
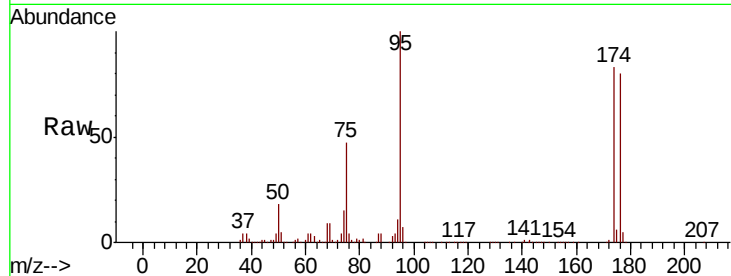




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.059 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034148.D
 Acq: 01 Sep 2019 02:09

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F1-(1.9)

Tgt Ion: 75 Resp: 158332
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0



#95
 Naphthalene
 Concen: 1.791 ug/l
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.06 min
 Lab File: VU034148.D
 Acq: 01 Sep 2019 02:09

Tgt Ion: 128 Resp: 21
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

