

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034193.D
 Acq On : 02 Sep 2019 11:43
 Operator : JC/SP
 Sample : K4544-26
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B1-(2.25)

Quant Time: Sep 03 05:52:54 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	439119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	708734	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	693859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	327619	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	271729	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
35) Dibromofluoromethane	4.86	113	229996	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	7.55	98	919316	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	10.29	95	312112	43.59	ug/l	0.00
Spiked Amount			Recovery	=	87.18%	

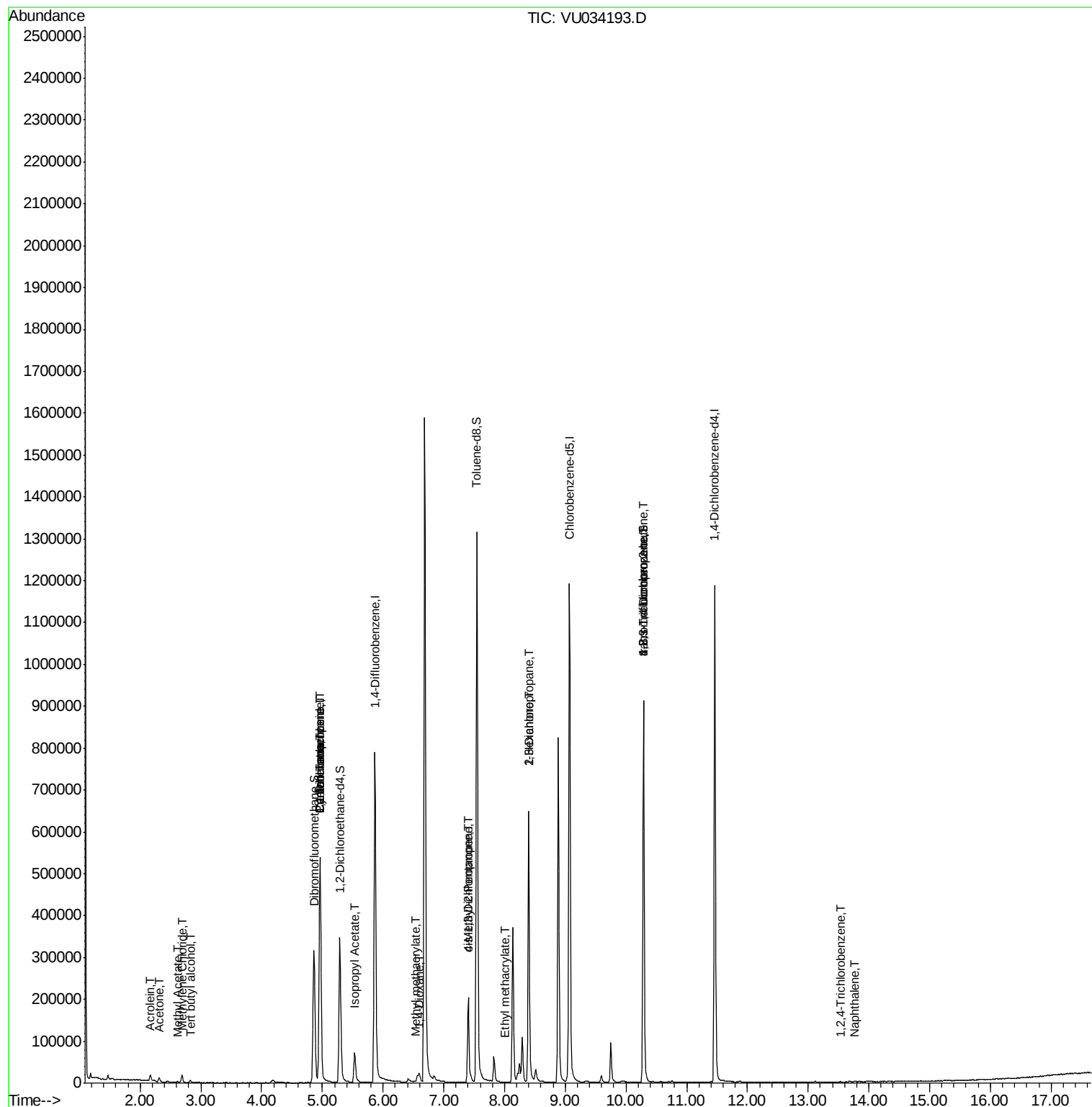
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	491	Below Cal	#	81
5) Bromomethane	1.60	94	44	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	3179	2.450	ug/l #	73
13) Acrolein	2.18	56	238	0.436	ug/l	84
16) Acetone	2.31	43	13079	4.556	ug/l	97
18) Methyl Acetate	2.61	43	3457	0.466	ug/l #	83
20) Methylene Chloride	2.69	84	8229	1.514	ug/l	95
31) Cyclohexane	4.96	56	7991	0.951	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31919	4.761	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40010	6.183	ug/l #	16
43) Isopropyl Acetate	5.53	43	84780	7.423	ug/l	99
48) Methyl methacrylate	6.53	41	4844	0.879	ug/l #	14
49) 1,4-Dioxane	6.60	88	144	1.043	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	70493	8.938	ug/l #	48
54) cis-1,3-Dichloropropene	7.40	75	37462	4.391	ug/l #	61
56) Ethyl methacrylate	8.00	69	137	0.987	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6775	0.755	ug/l #	42
59) 2-Hexanone	8.40	43	90700	15.233	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	150836	20.428	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	150836	68.784	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	615	1.198	ug/l #	48
95) Naphthalene	13.76	128	1332	1.853	ug/l #	76

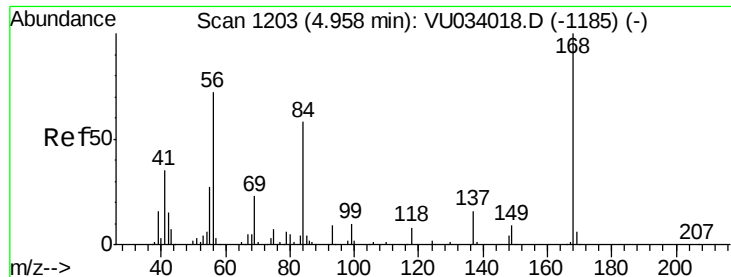
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T16-17-B1-(2.25)

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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# 1205

Delta R.T. 0.01 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

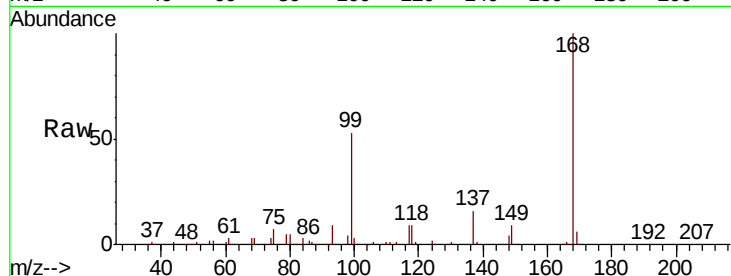
T16-17-B1-(2.25)

Tgt Ion:168 Resp: 439119

Ion Ratio Lower Upper

168 100

99 53.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

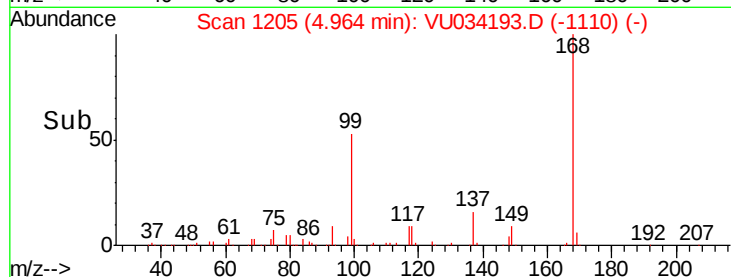
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034193.D

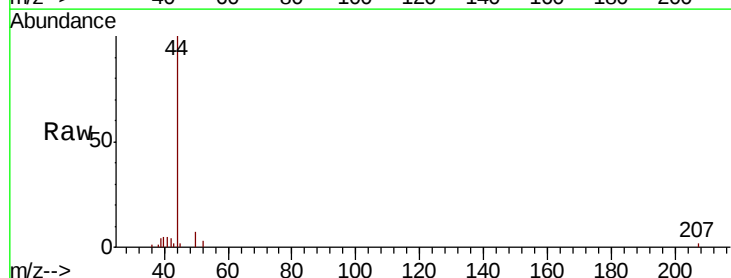
Acq: 02 Sep 2019 11:43

Tgt Ion: 50 Resp: 491

Ion Ratio Lower Upper

50 100

52 43.3 26.2 39.4#



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

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

1.32

600

500

400

300

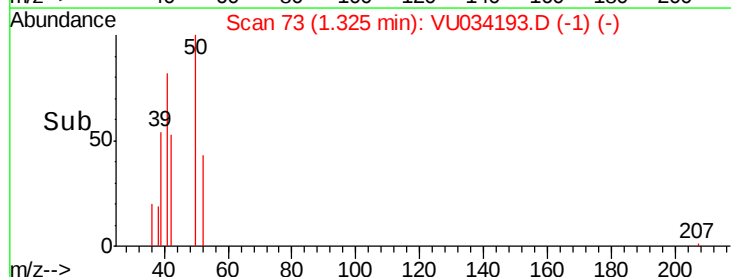
200

100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

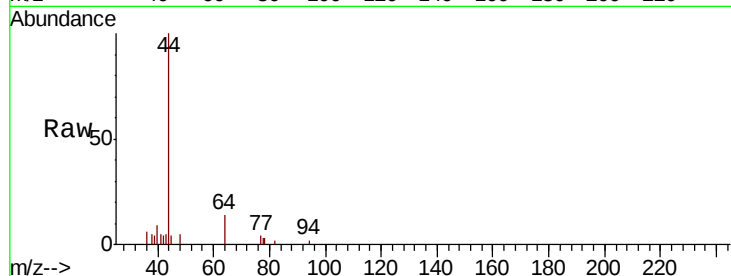
T16-17-B1-(2.25)

Tgt Ion: 94 Resp: 44

Ion Ratio Lower Upper

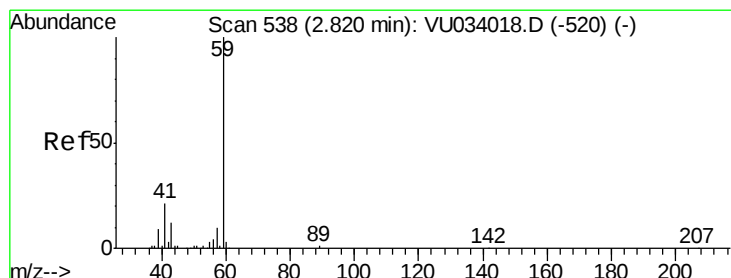
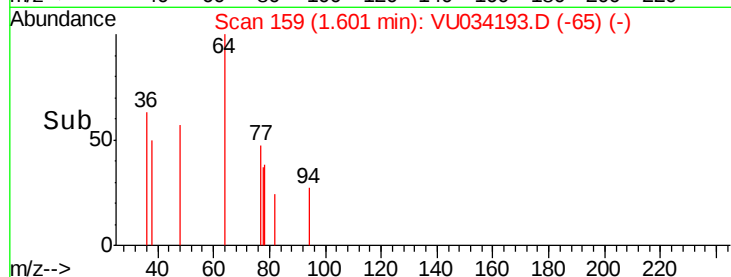
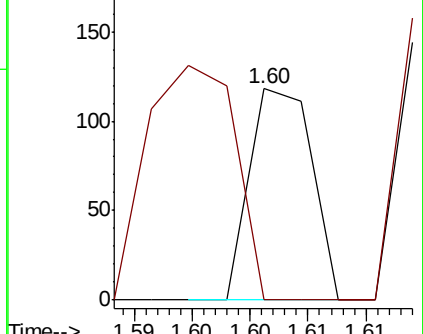
94 100

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: 2.450 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034193.D

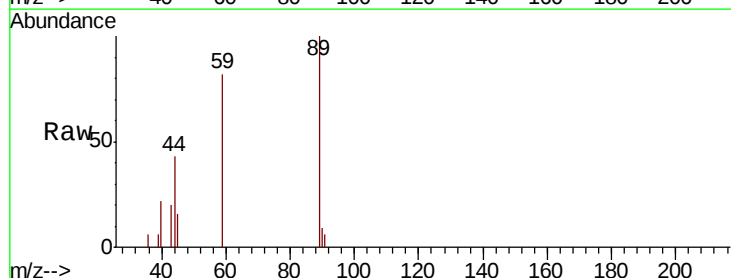
Acq: 02 Sep 2019 11:43

Tgt Ion: 59 Resp: 3179

Ion Ratio Lower Upper

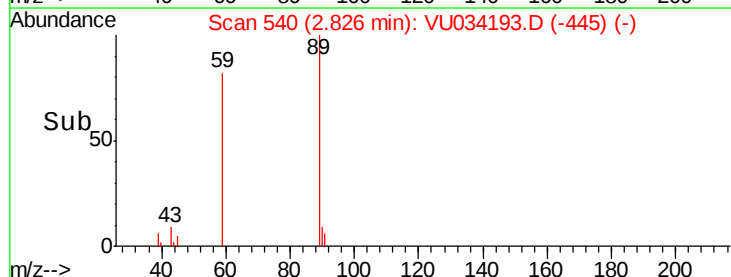
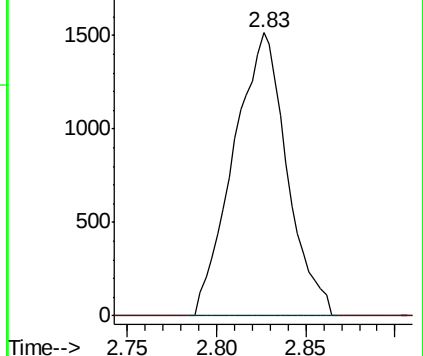
59 100

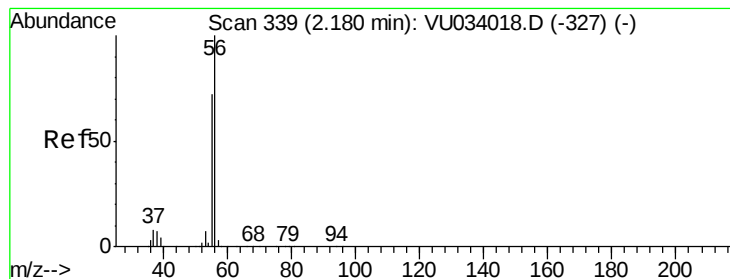
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.436 ug/l

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

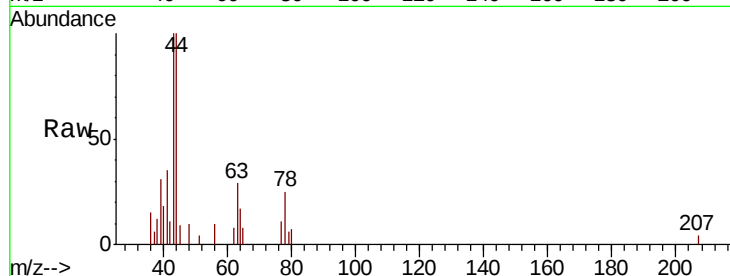
T16-17-B1-(2.25)

Tgt Ion: 56 Resp: 238

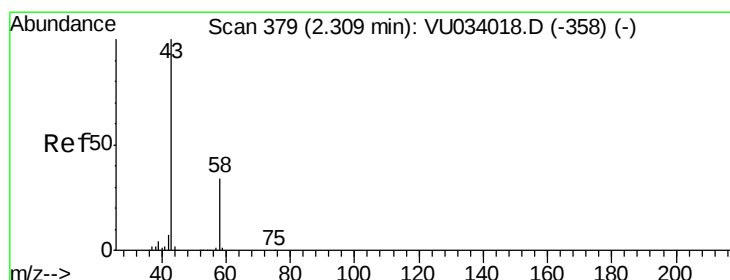
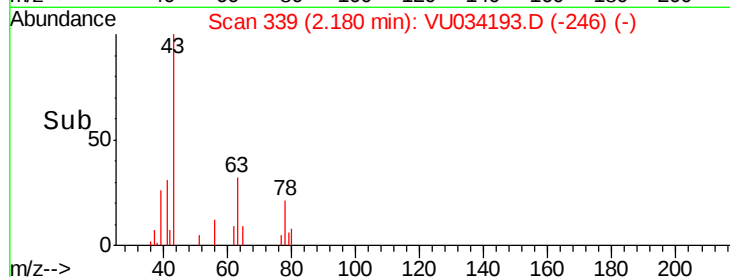
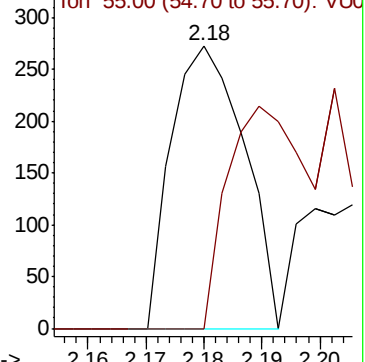
Ion Ratio Lower Upper

56 100

55 84.5 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034193.D (-246) (-)



#16

Acetone

Concen: 4.556 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034193.D

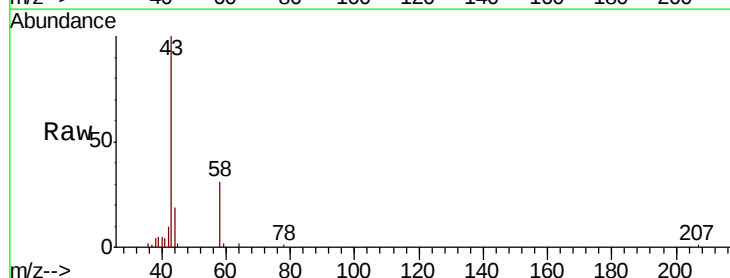
Acq: 02 Sep 2019 11:43

Tgt Ion: 43 Resp: 13079

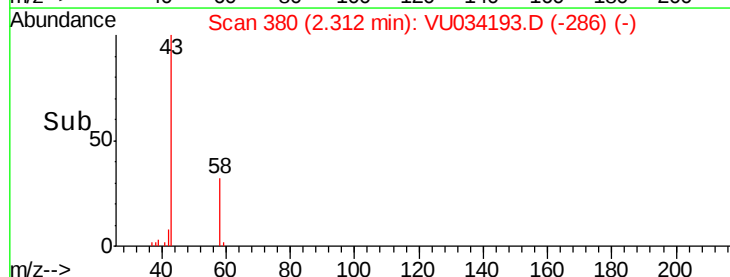
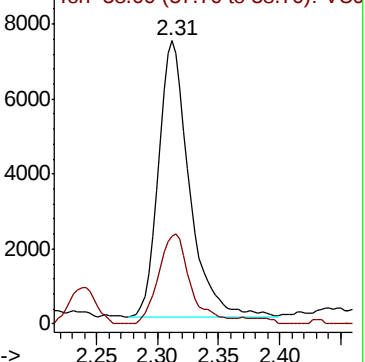
Ion Ratio Lower Upper

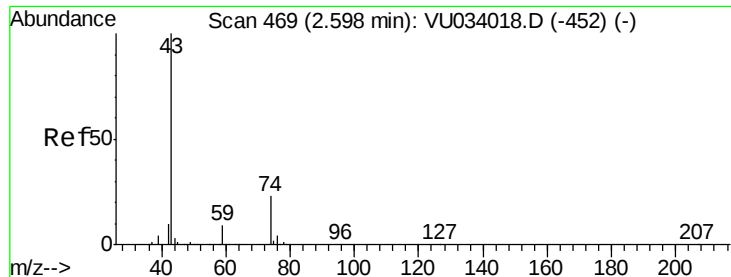
43 100

58 31.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034193.D (-286) (-)

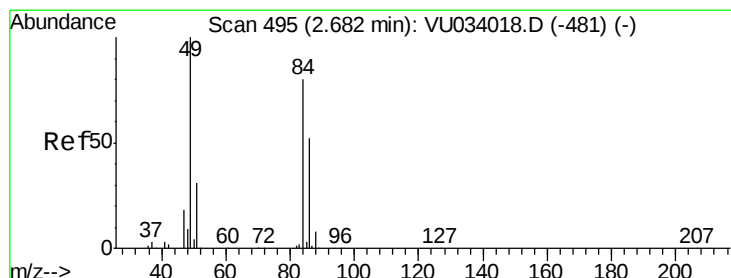
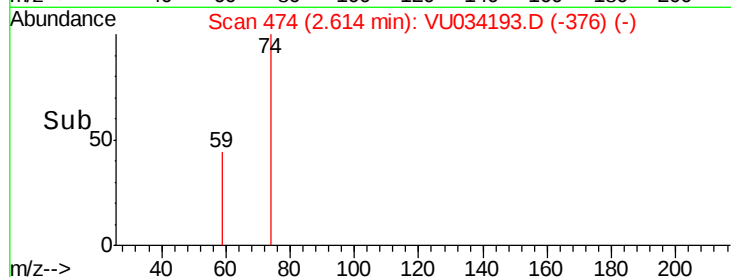
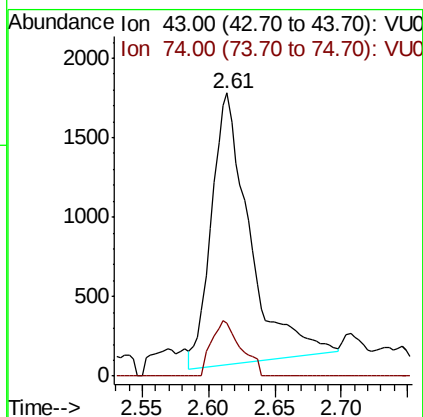
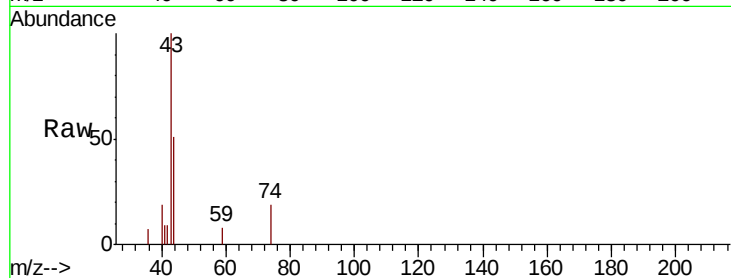




#18
Methyl Acetate
Concen: 0.466 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

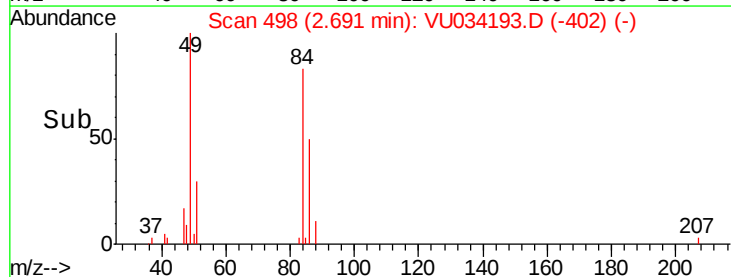
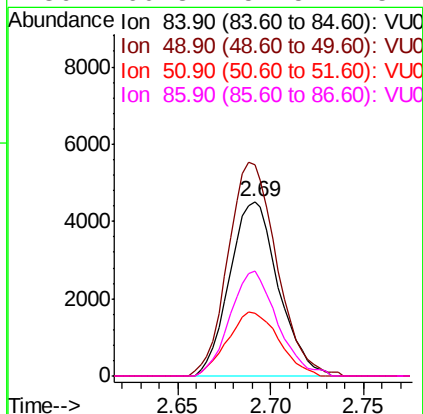
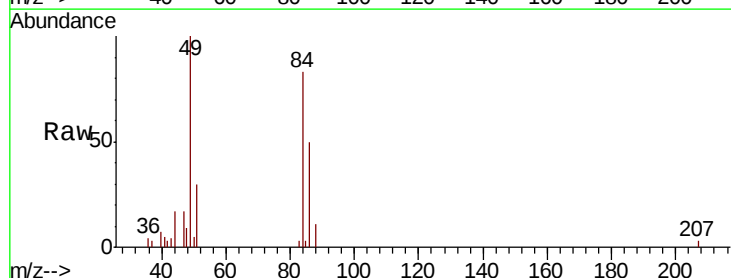
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B1-(2.25)

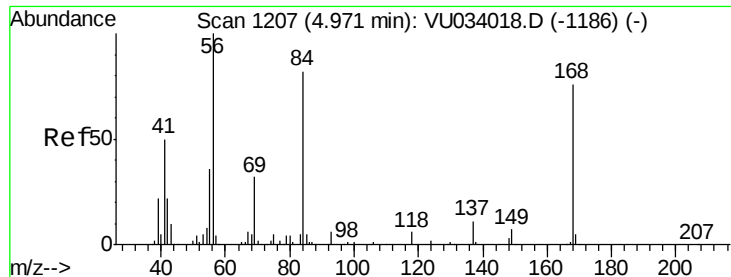
Tgt Ion: 43 Resp: 3457
Ion Ratio Lower Upper
43 100
74 15.6 19.2 28.8#



#20
Methylene Chloride
Concen: 1.514 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Tgt Ion: 84 Resp: 8229
Ion Ratio Lower Upper
84 100
49 120.9 100.2 150.4
51 36.1 30.8 46.2
86 60.3 52.5 78.7

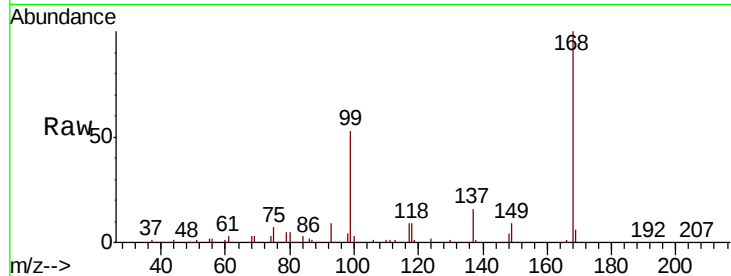




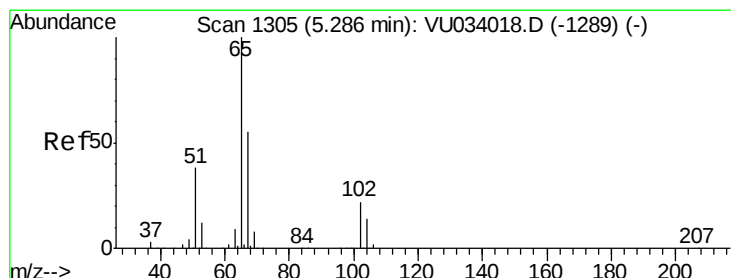
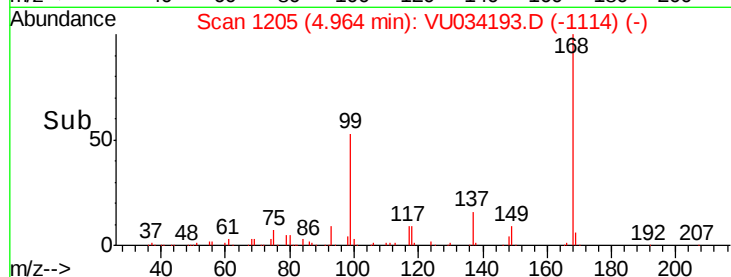
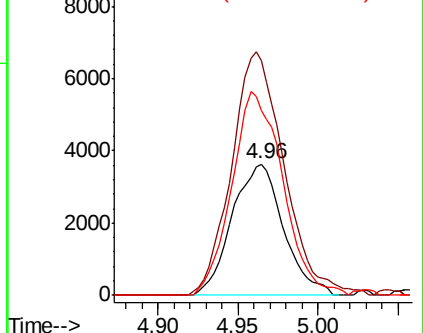
#31
Cyclohexane
Concen: 0.951 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Instrument :
MSVOA_U
ClientSampleId :
T16-17-B1-(2.25)

Tgt Ion: 56 Resp: 7991
Ion Ratio Lower Upper
56 100
69 178.3 25.4 38.0#
84 140.8 65.8 98.8#

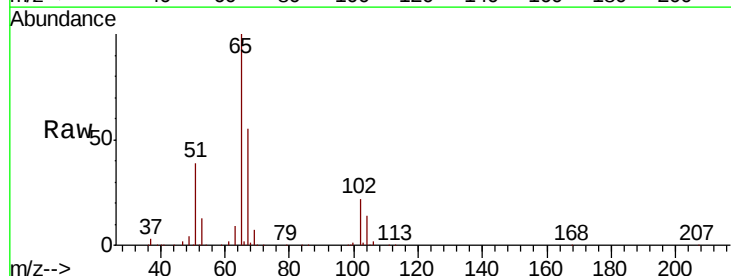


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

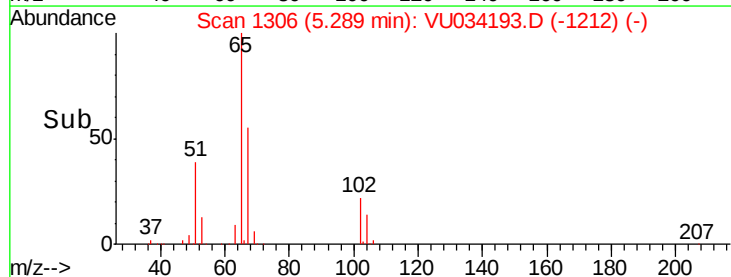
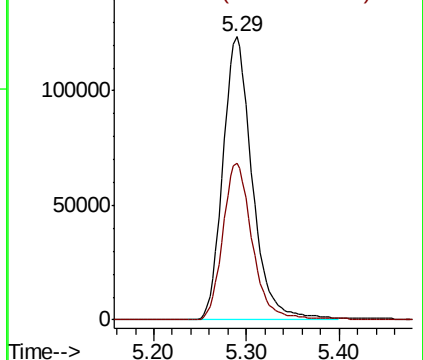


#33
1,2-Dichloroethane-d4
Concen: 48.294 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Tgt Ion: 65 Resp: 271729
Ion Ratio Lower Upper
65 100
67 56.0 0.0 110.6



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

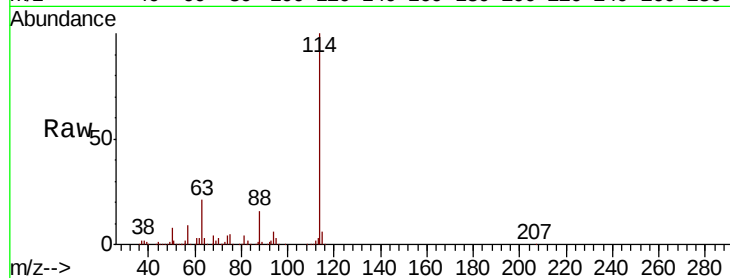




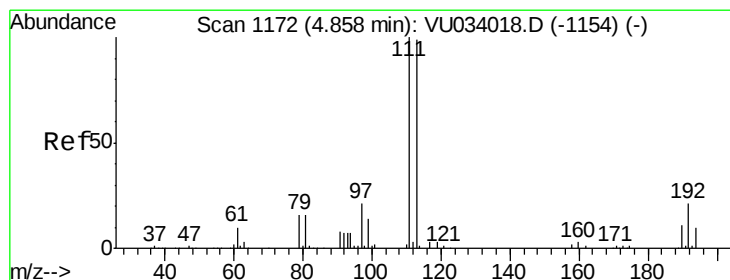
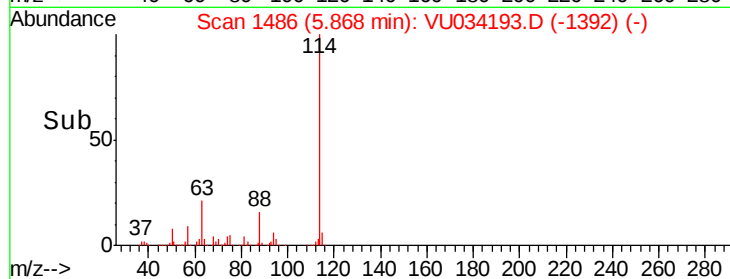
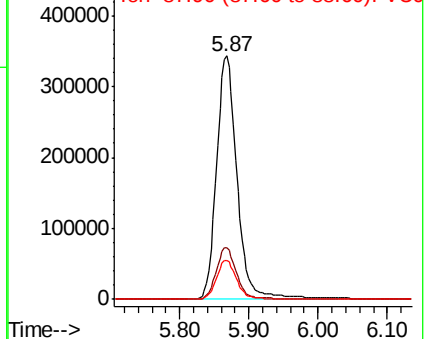
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.87 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Instrument :
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Tgt Ion:114 Resp: 708734
Ion Ratio Lower Upper
114 100
63 21.0 0.0 42.0
88 16.1 0.0 32.0

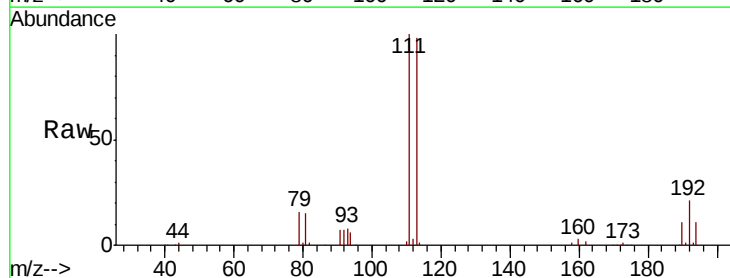


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

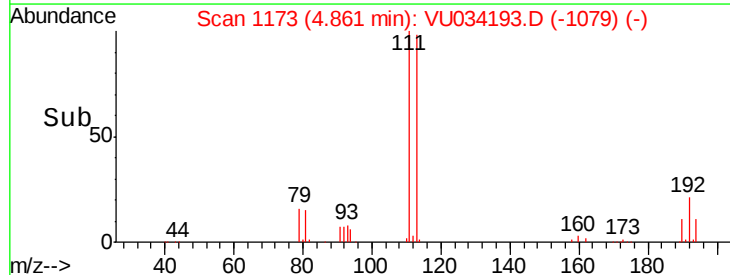
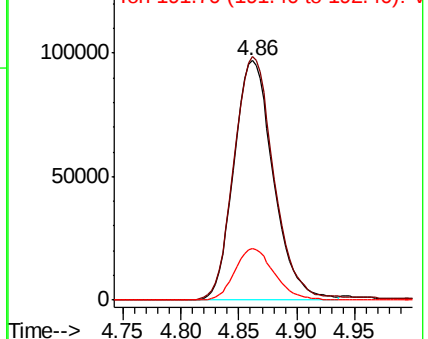


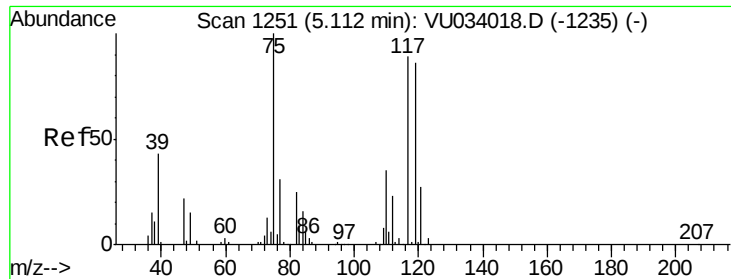
#35
Dibromofluoromethane
Concen: 46.788 ug/l
RT: 4.86 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Tgt Ion:113 Resp: 229996
Ion Ratio Lower Upper
113 100
111 102.7 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

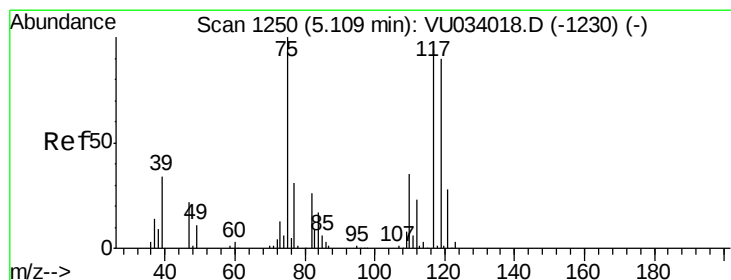
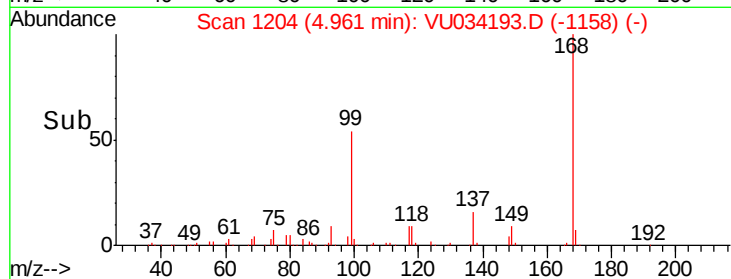
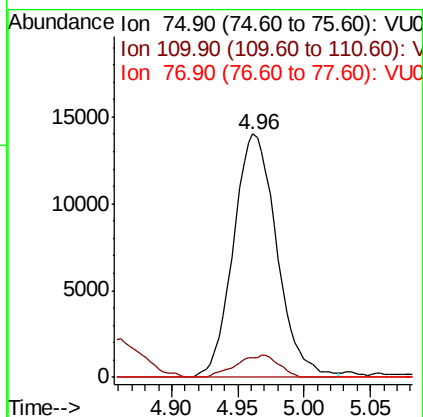
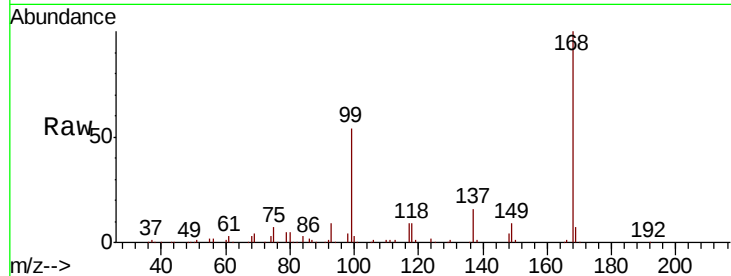




#36
 1,1-Dichloropropene
 Concen: 4.761 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034193.D
 Acq: 02 Sep 2019 11:43

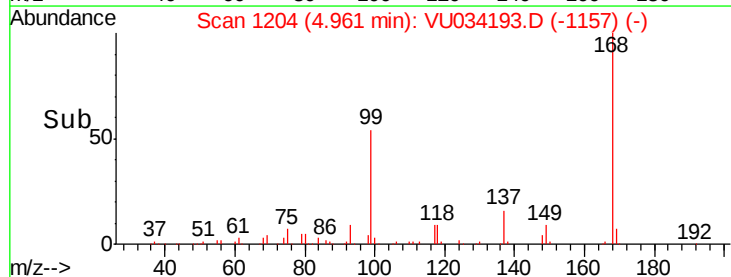
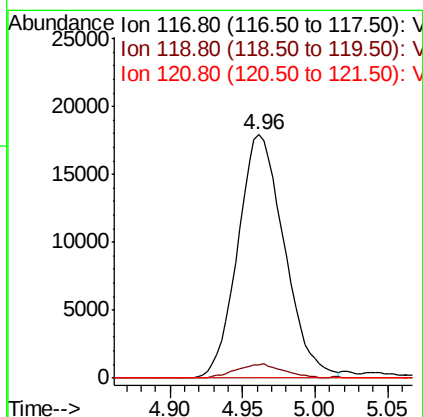
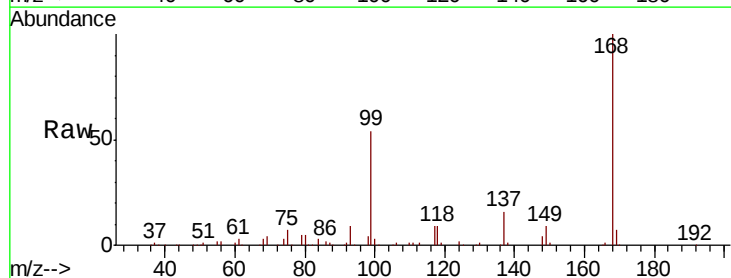
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B1-(2.25)

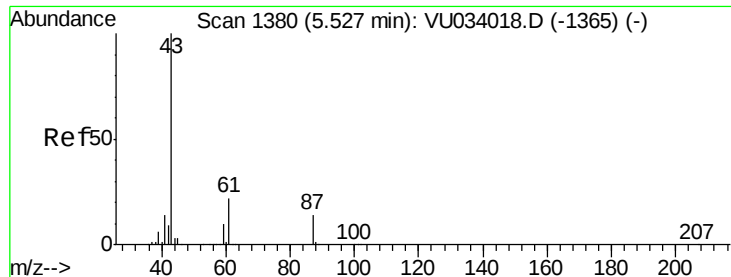
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.183 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034193.D
 Acq: 02 Sep 2019 11:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	77.0	115.4#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 7.423 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B1-(2.25)

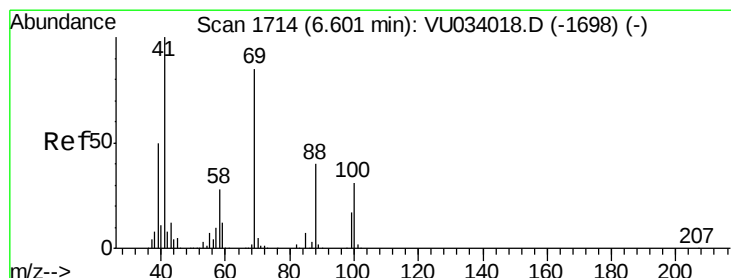
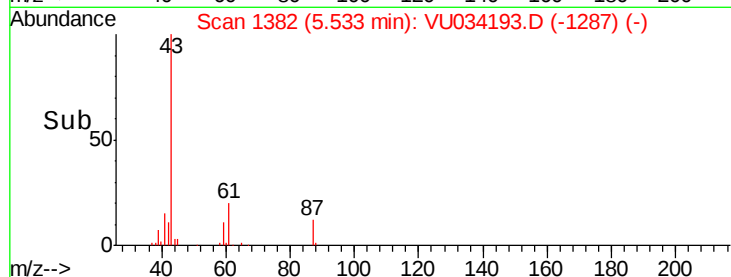
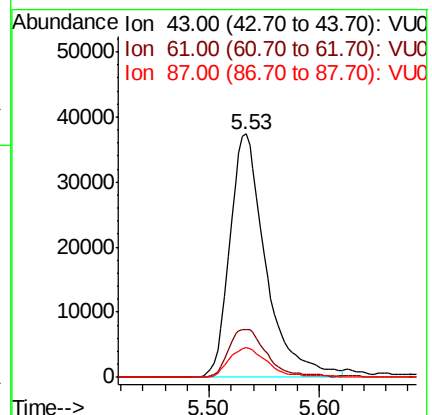
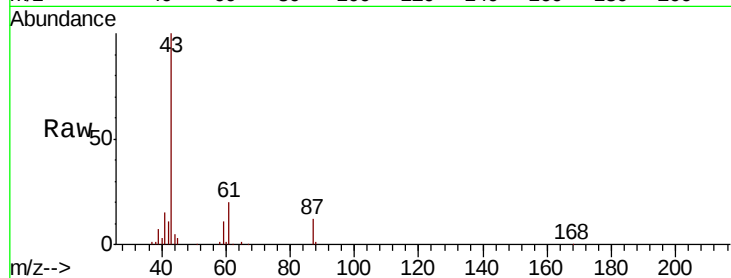
Tgt Ion: 43 Resp: 84780

Ion Ratio Lower Upper

43 100

61 21.1 17.2 25.8

87 13.0 10.8 16.2



#48

Methyl methacrylate

Concen: 0.879 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

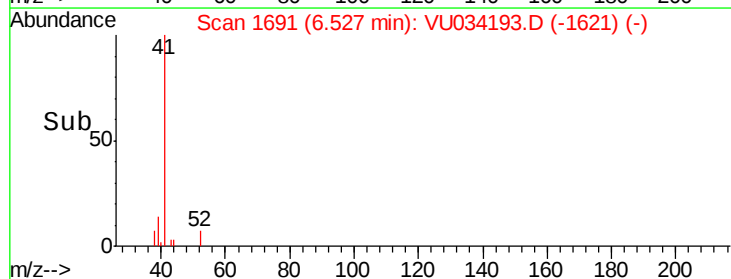
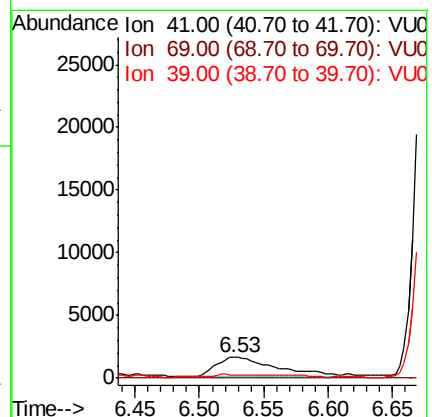
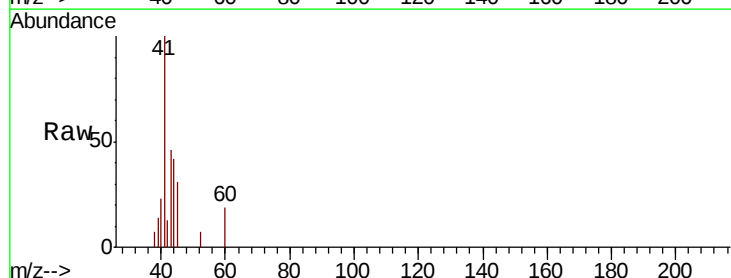
Tgt Ion: 41 Resp: 4844

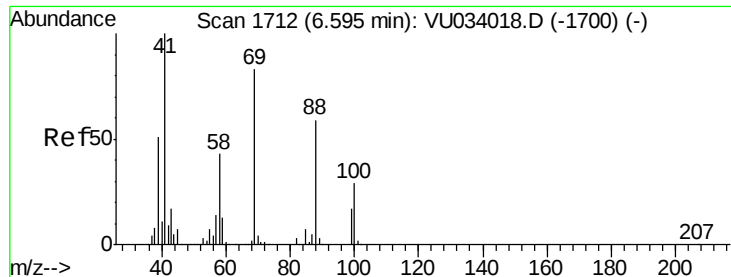
Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

39 0.0 40.3 60.5#

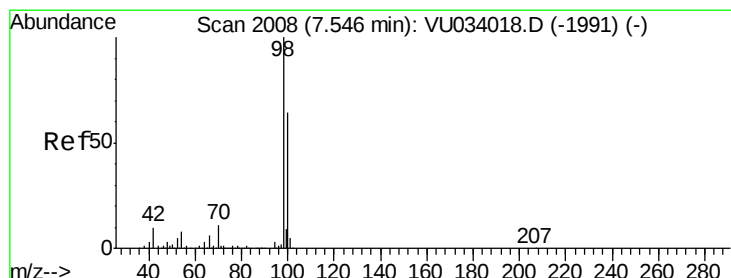
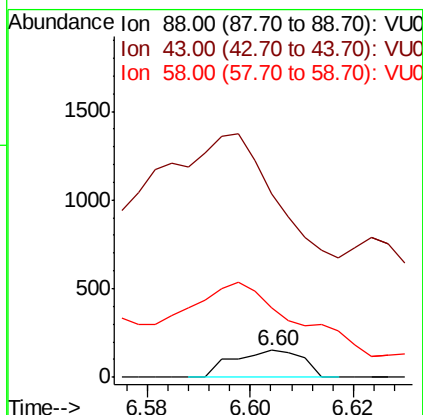
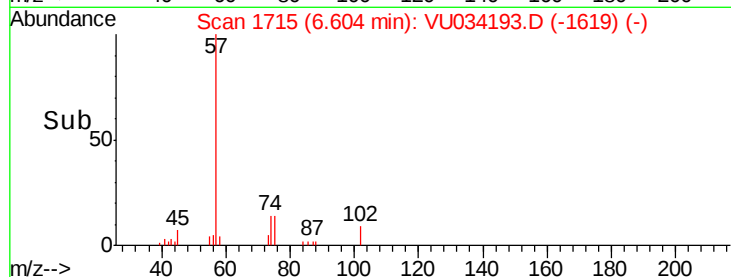
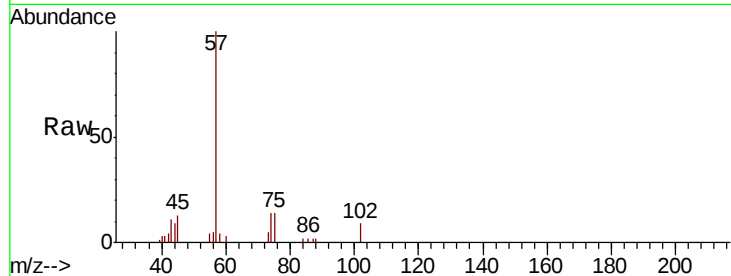




#49
1,4-Dioxane
Concen: 1.043 ug/l
RT: 6.60 min Scan# 1715
Delta R.T. 0.01 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

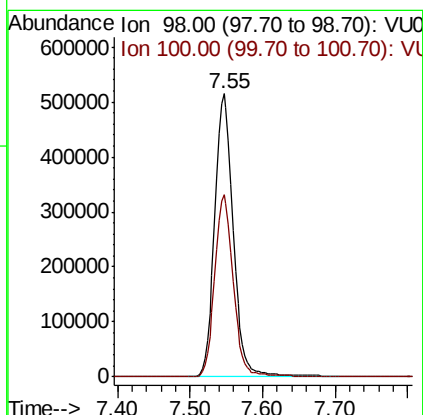
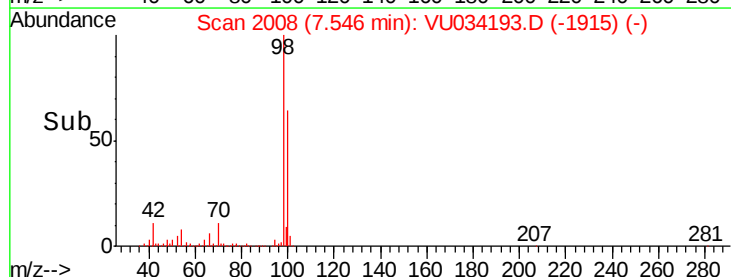
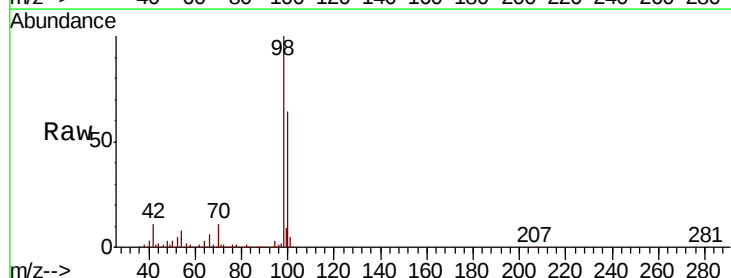
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B1-(2.25)

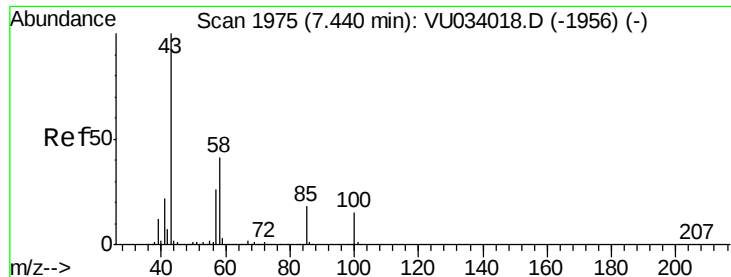
Tgt Ion: 88 Resp: 144
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 660.4 59.3 88.9#



#50
Toluene-d8
Concen: 49.946 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Tgt Ion: 98 Resp: 919316
Ion Ratio Lower Upper
98 100
100 64.3 50.3 75.5

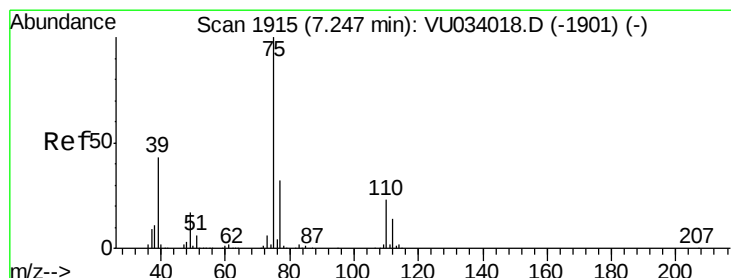
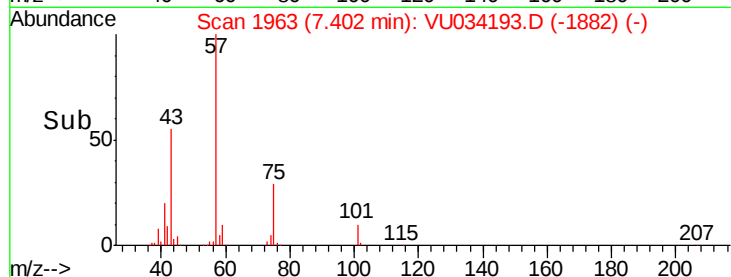
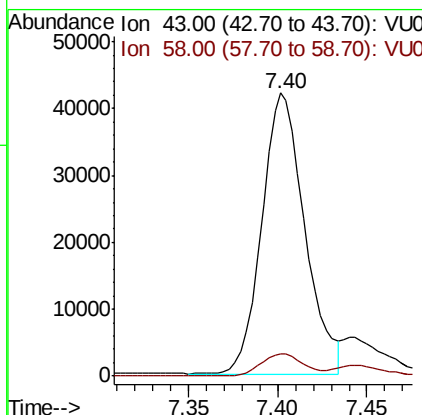
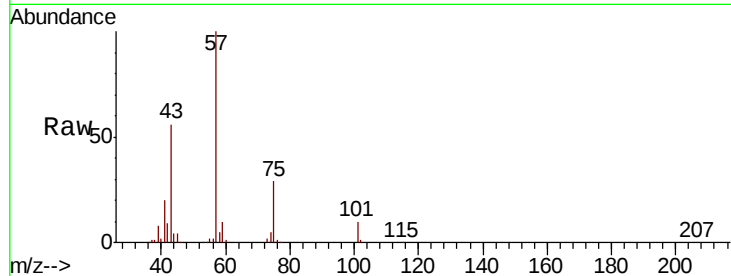




#51
 4-Methyl-2-Pentanone
 Concen: 8.938 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034193.D
 Acq: 02 Sep 2019 11:43

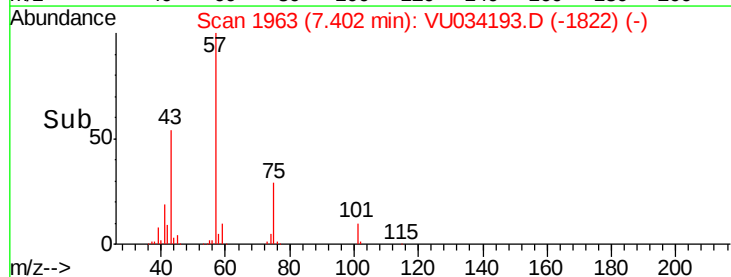
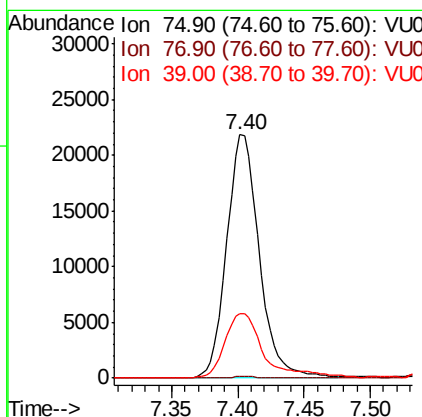
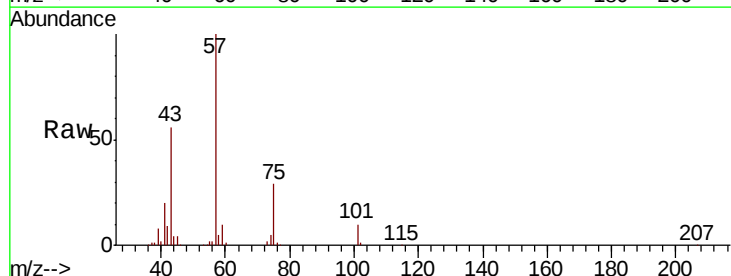
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B1-(2.25)

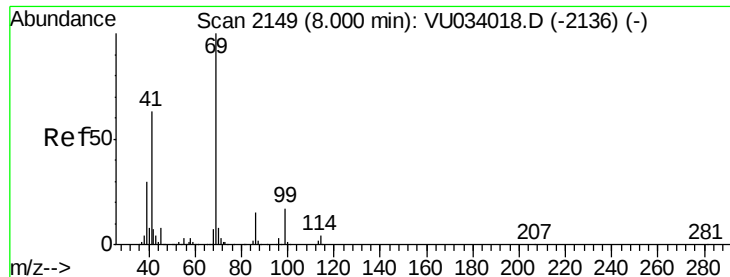
Tgt Ion: 43 Resp: 70493
 Ion Ratio Lower Upper
 43 100
 58 7.8 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.391 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034193.D
 Acq: 02 Sep 2019 11:43

Tgt Ion: 75 Resp: 37462
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 26.6 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.987 ug/l

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

T16-17-B1-(2.25)

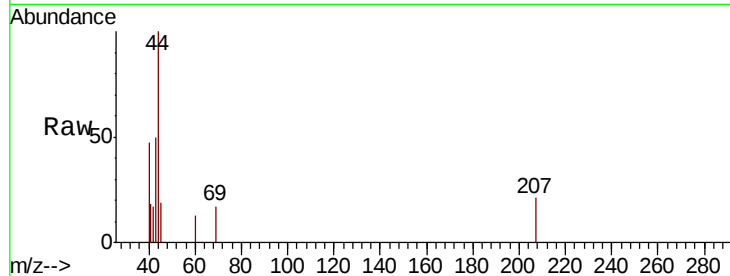
Tgt Ion: 69 Resp: 137

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 0.0 24.2 36.2#



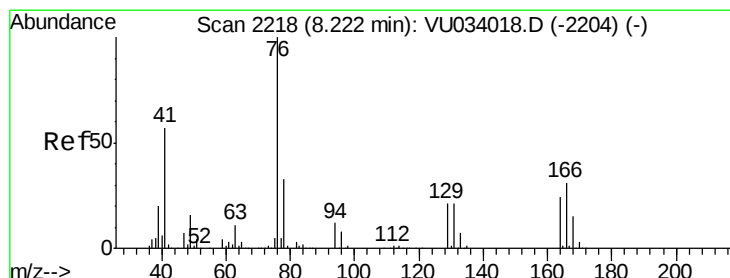
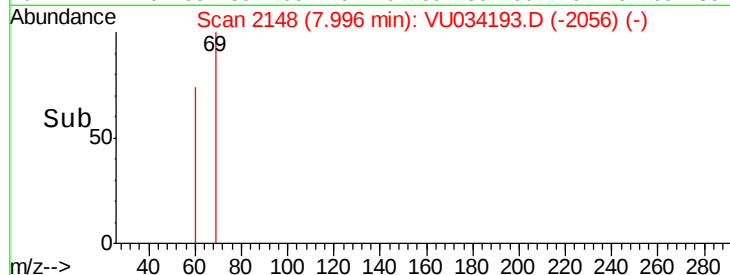
Abundance Ion 69.00 (68.70 to 69.70): VU034193.D (-2148) (-)

Ion 41.00 (40.70 to 41.70): VU034193.D (-2148) (-)

Ion 39.00 (38.70 to 39.70): VU034193.D (-2148) (-)

8.00

Time-->



#57

1,3-Dichloropropane

Concen: 0.755 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034193.D

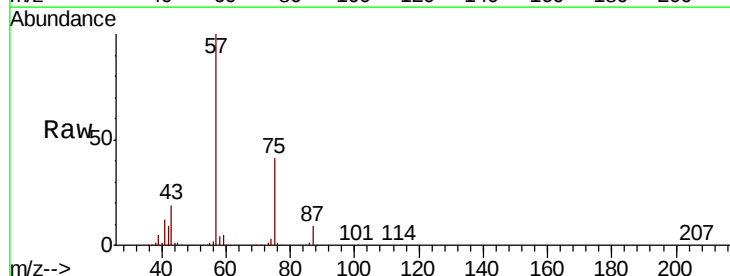
Acq: 02 Sep 2019 11:43

Tgt Ion: 76 Resp: 6775

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#

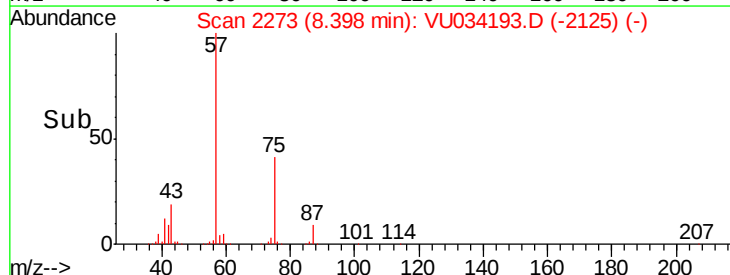


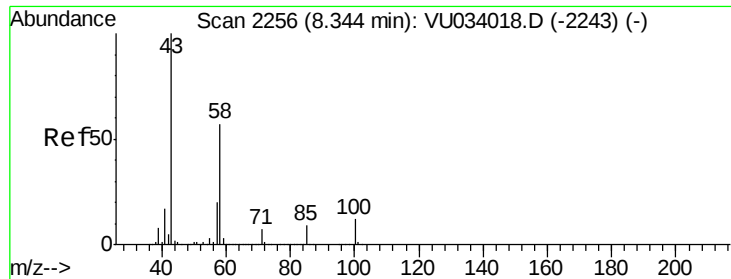
Abundance Ion 75.90 (75.60 to 76.60): VU034193.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU034193.D (-2273) (-)

8.40

Time-->

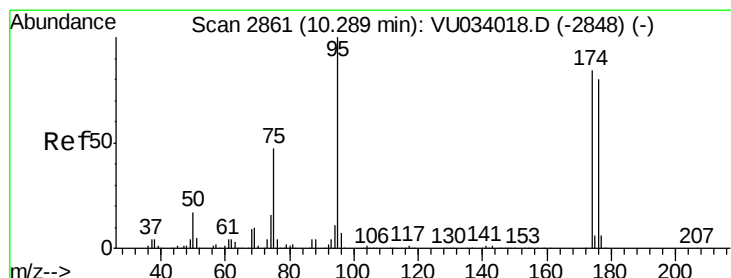
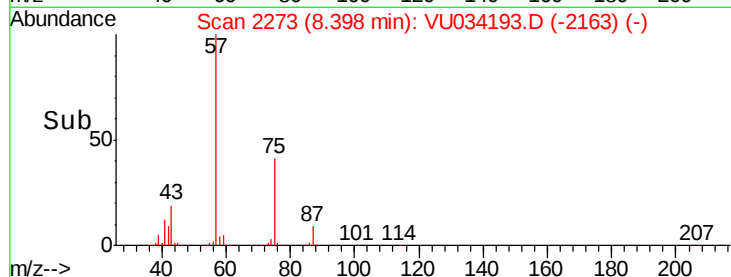
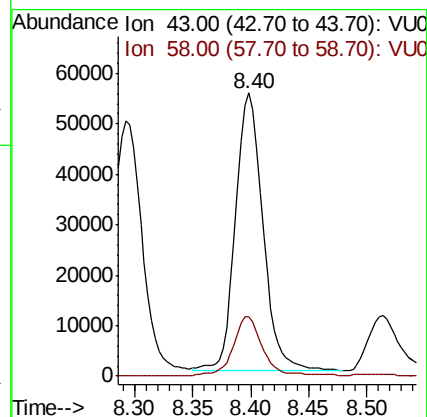
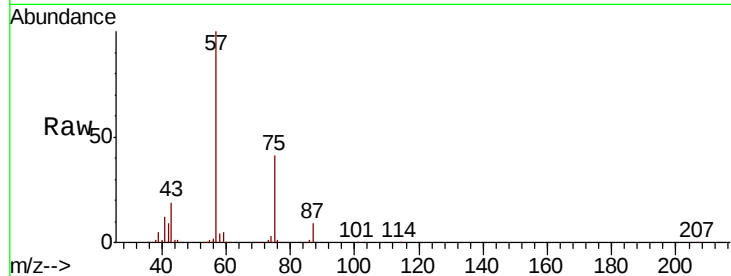




#59
2-Hexanone
Concen: 15.233 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

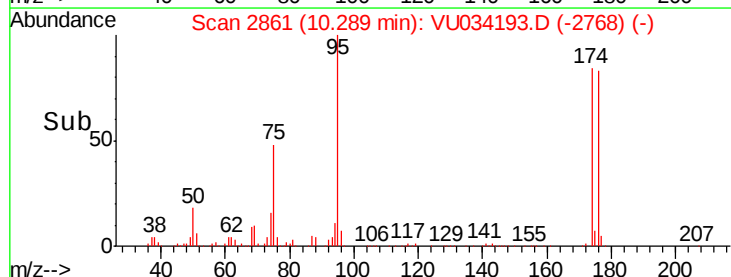
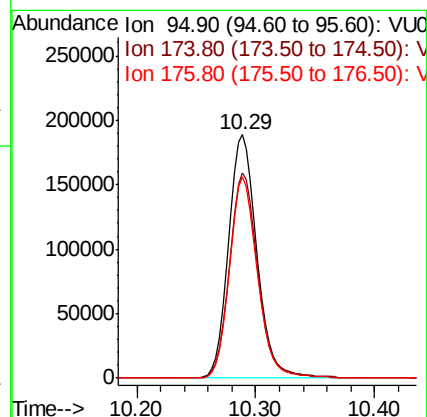
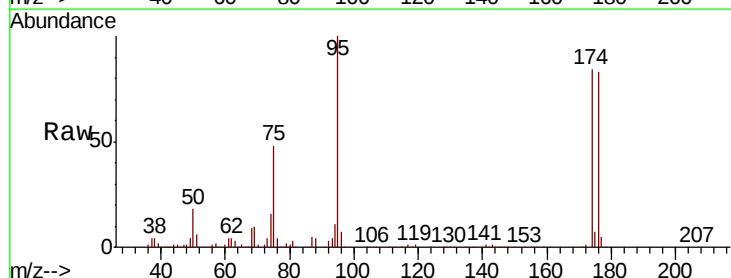
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B1-(2.25)

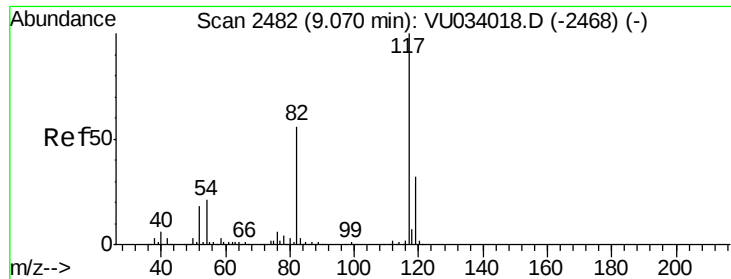
Tgt Ion: 43 Resp: 90700
Ion Ratio Lower Upper
43 100
58 23.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 43.592 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Tgt Ion: 95 Resp: 312112
Ion Ratio Lower Upper
95 100
174 84.6 0.0 168.8
176 81.4 0.0 161.8

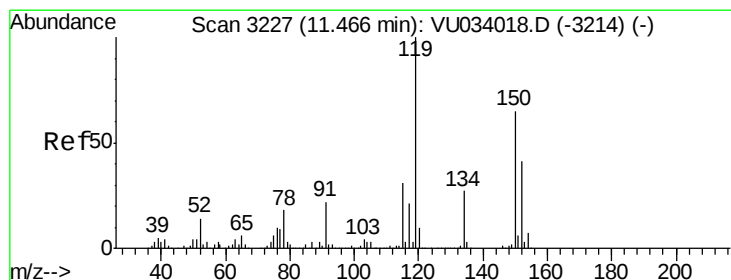
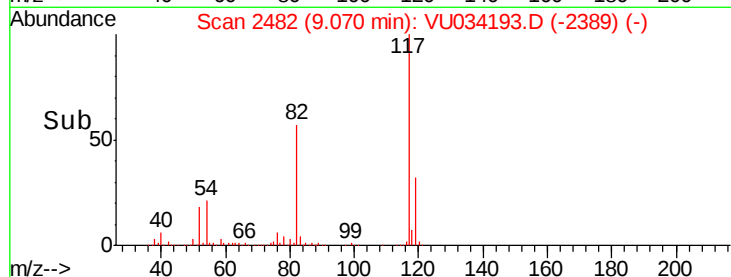
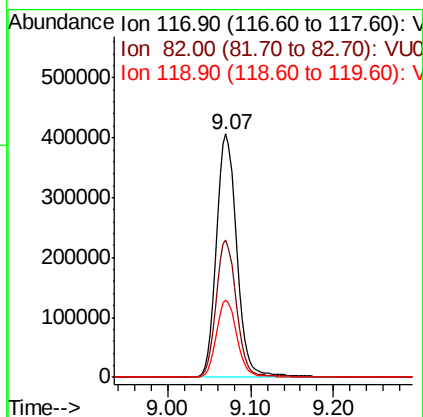
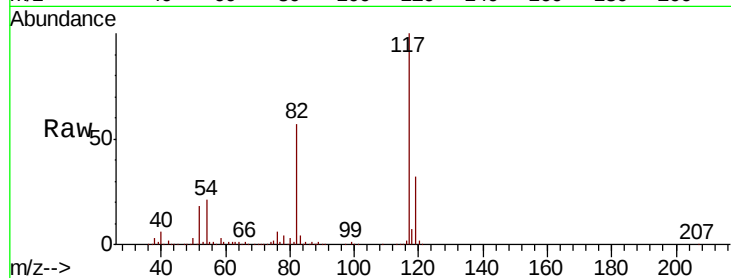




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

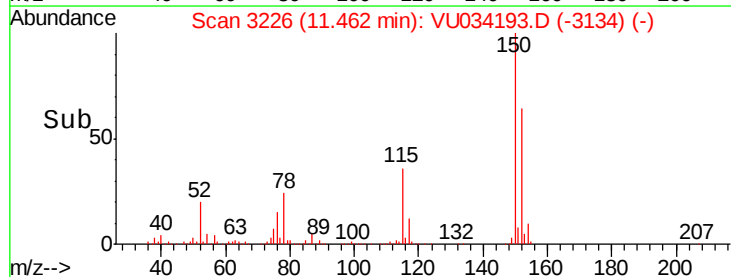
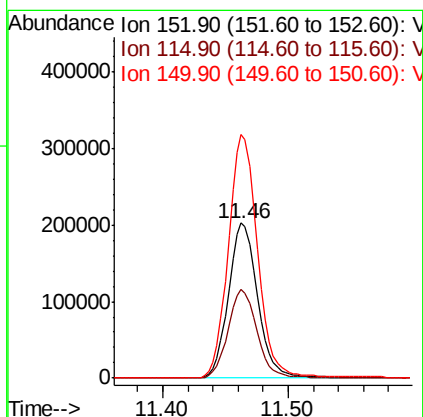
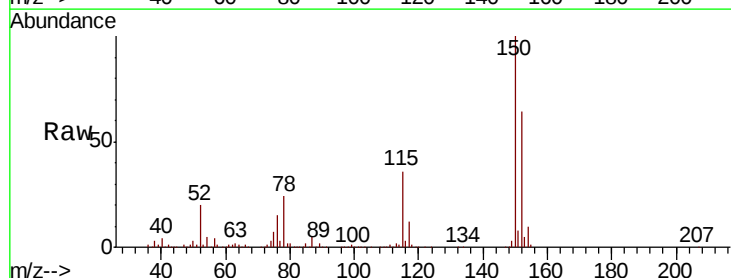
Instrument :
MSVOA_U
ClientSampleId :
T16-17-B1-(2.25)

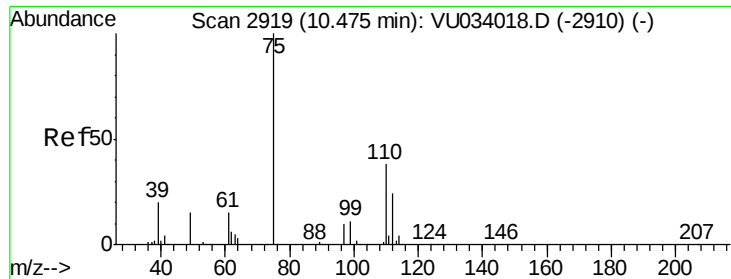
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.1	67.7
119	32.0	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034193.D
Acq: 02 Sep 2019 11:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	41.1	123.3
150	158.3	0.0	348.8





#76

1,2,3-Trichloropropane

Concen: 20.428 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

Instrument :

MSVOA_U

ClientSampleId :

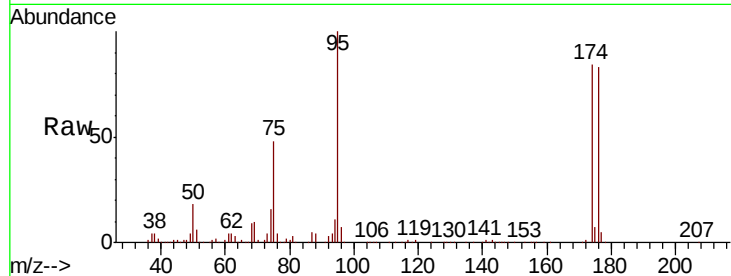
T16-17-B1-(2.25)

Tgt Ion: 75 Resp: 150836

Ion Ratio Lower Upper

75 100

77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU034018.D (-2910) (-)

10.29

80000

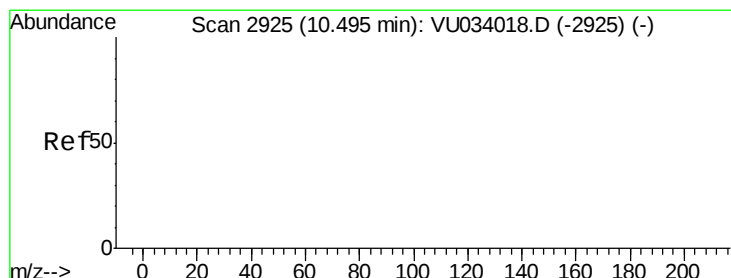
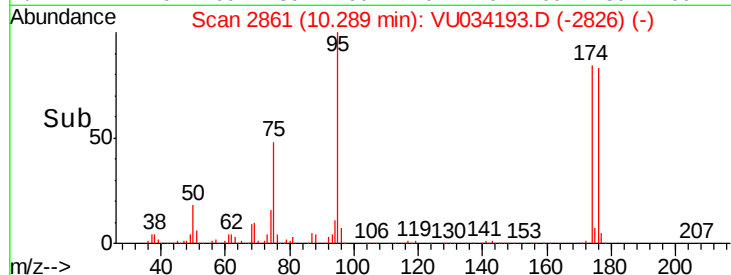
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 68.784 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034193.D

Acq: 02 Sep 2019 11:43

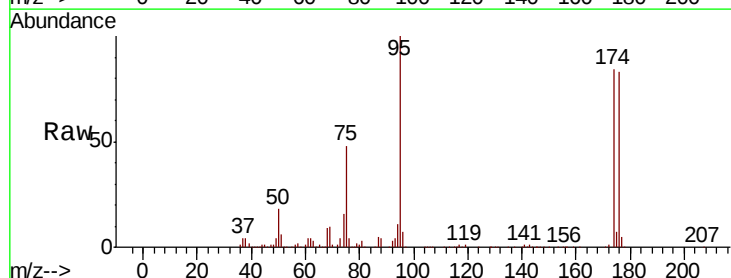
Tgt Ion: 75 Resp: 150836

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2925) (-)

Ion 53.00 (52.70 to 53.70): VU034018.D (-2925) (-)

Ion 88.90 (88.60 to 89.60): VU034018.D (-2925) (-)

10.29

120000

100000

80000

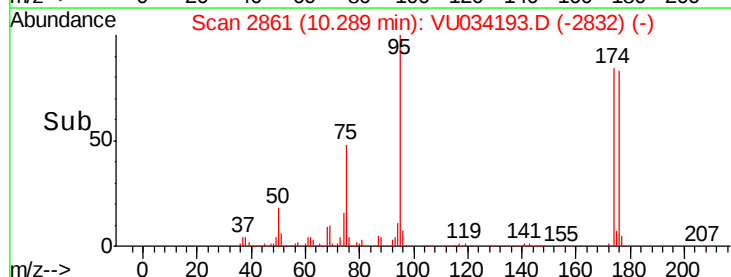
60000

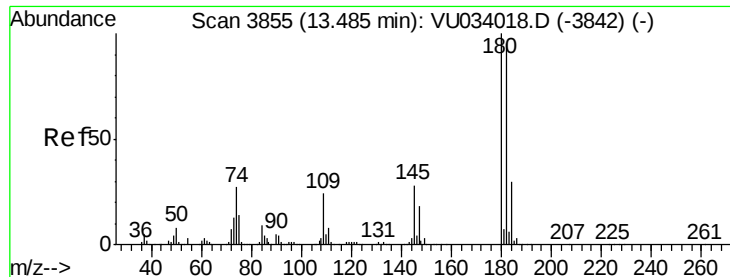
40000

20000

0

Time-->

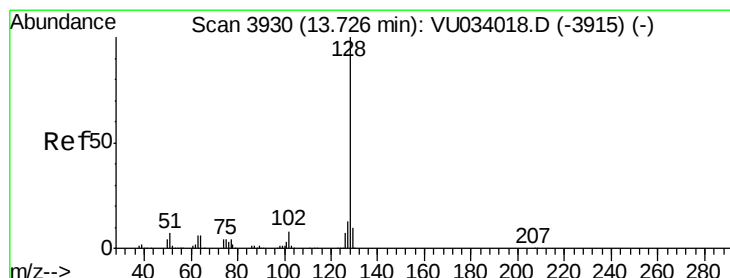
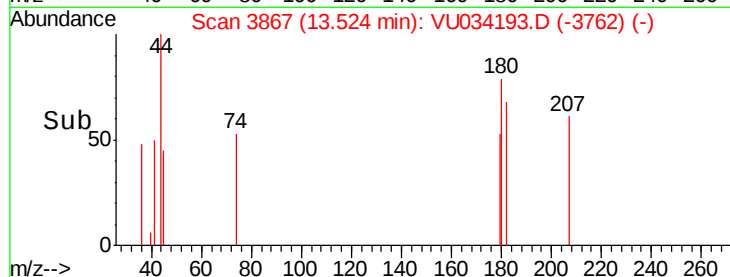
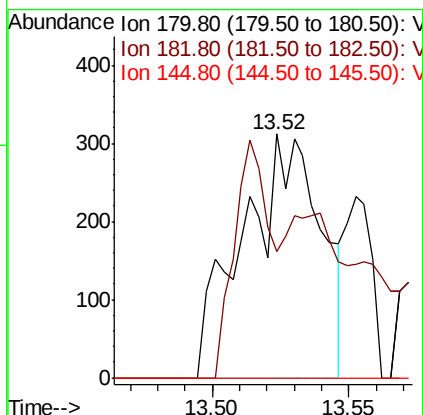
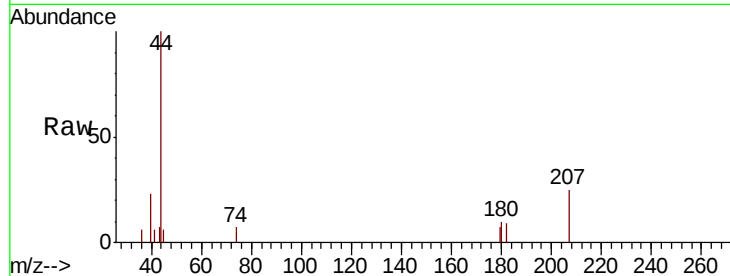




#93
 1,2,4-Trichlorobenzene
 Concen: 1.198 ug/l
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.04 min
 Lab File: VU034193.D
 Acq: 02 Sep 2019 11:43

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-B1-(2.25)

Tgt Ion:180 Resp: 615
 Ion Ratio Lower Upper
 180 100
 182 44.7 47.4 142.2#
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 1.853 ug/l
 RT: 13.76 min Scan# 3941
 Delta R.T. 0.04 min
 Lab File: VU034193.D
 Acq: 02 Sep 2019 11:43

Tgt Ion:128 Resp: 1332
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 5.1 8.4 12.6#

