

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034203.D
 Acq On : 02 Sep 2019 15:35
 Operator : JC/SP
 Sample : K4544-37
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C3-(2.25)

Quant Time: Sep 03 05:55:23 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	435373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	703700	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	707565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	336208	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	282256	50.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.20%	
35) Dibromofluoromethane	4.86	113	233405	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
50) Toluene-d8	7.55	98	921477	50.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.84%	
62) 4-Bromofluorobenzene	10.29	95	316924	44.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.16%	

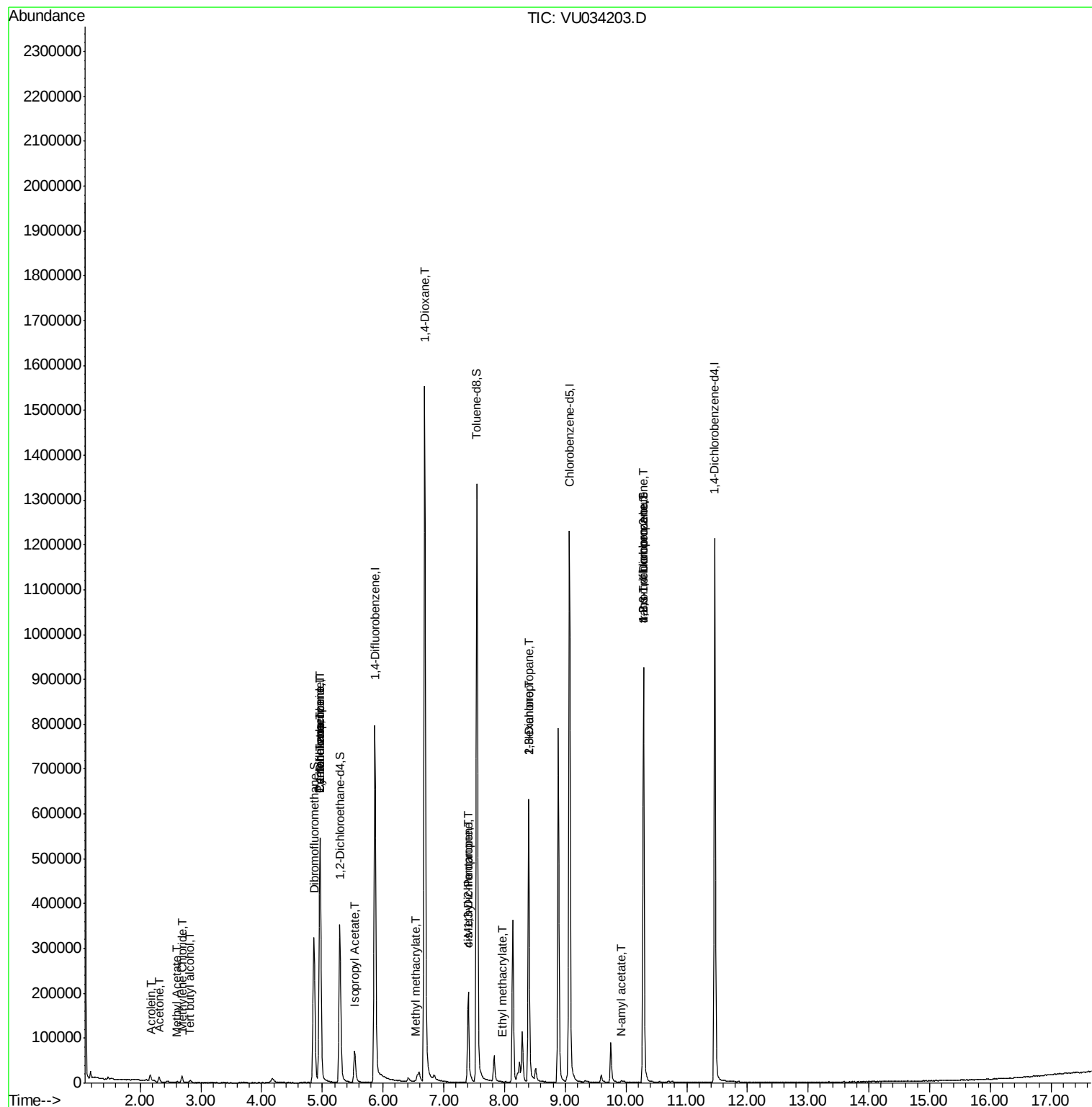
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	478	Below Cal		95
5) Bromomethane	1.64	94	679	Below Cal	#	79
11) Tert butyl alcohol	2.83	59	3677	2.858	ug/l #	74
13) Acrolein	2.19	56	339	0.626	ug/l #	65
16) Acetone	2.31	43	13333	4.684	ug/l	99
18) Methyl Acetate	2.61	43	3561	0.484	ug/l #	87
20) Methylene Chloride	2.69	84	6317	1.172	ug/l	90
31) Cyclohexane	4.96	56	7920	0.951	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31865	4.787	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39728	6.183	ug/l #	16
43) Isopropyl Acetate	5.53	43	82331	7.260	ug/l	98
48) Methyl methacrylate	6.53	41	4842	0.885	ug/l #	14
49) 1,4-Dioxane	6.68	88	146	1.065	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	78887	10.073	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	36476	4.306	ug/l #	63
56) Ethyl methacrylate	7.96	69	148	0.988	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6351	0.713	ug/l #	42
59) 2-Hexanone	8.40	43	86051	14.556	ug/l #	53
74) N-amyl acetate	9.92	43	1993	0.210	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	151107	19.941	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	151107	67.148	ug/l #	100

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

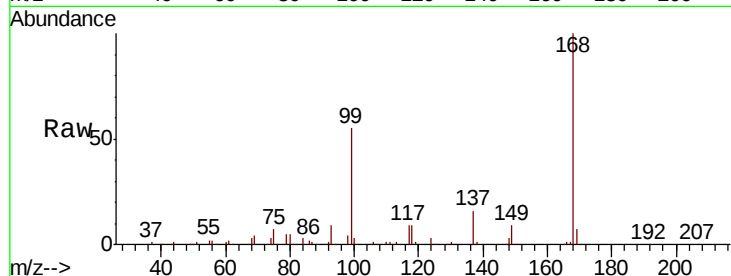
T16-17-C3-(2.25)

Tgt Ion:168 Resp: 435373

Ion Ratio Lower Upper

168 100

99 55.2 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

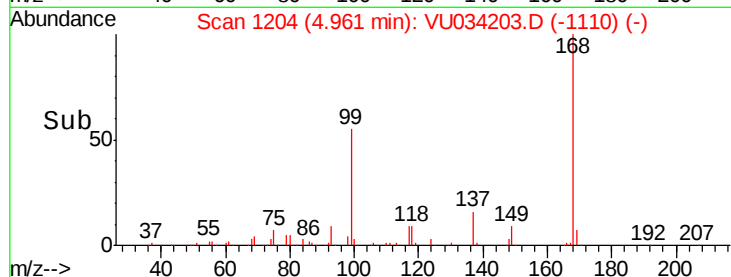
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034203.D

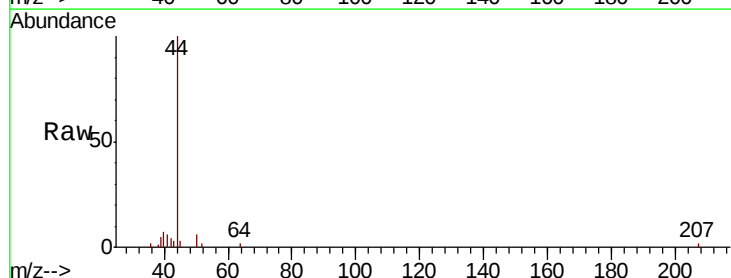
Acq: 02 Sep 2019 15:35

Tgt Ion: 50 Resp: 478

Ion Ratio Lower Upper

50 100

52 35.7 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

500

400

300

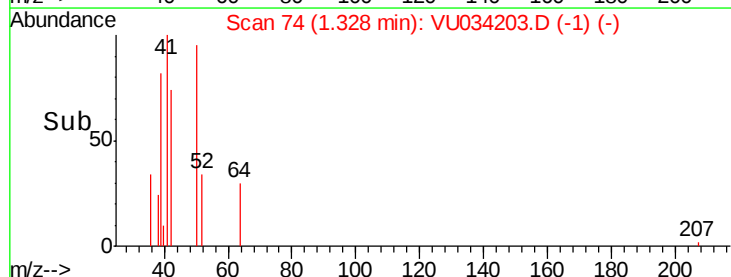
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.04 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

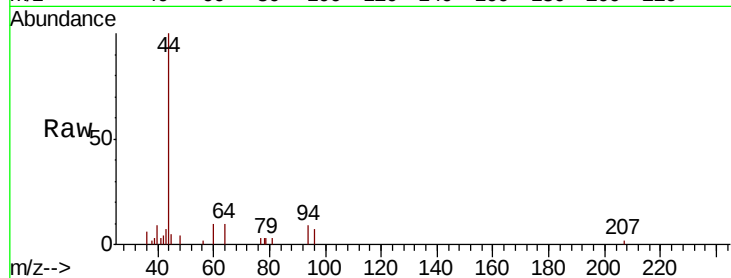
T16-17-C3-(2.25)

Tgt Ion: 94 Resp: 679

Ion Ratio Lower Upper

94 100

96 74.5 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

400

300

200

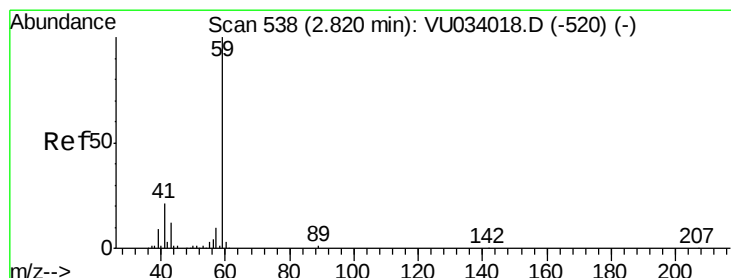
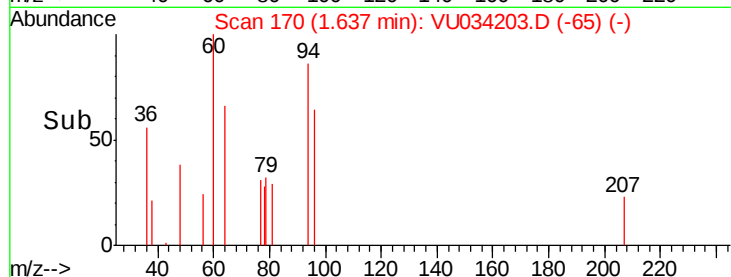
100

0

1.60

1.65

Time-->



#11

Tert butyl alcohol

Concen: 2.858 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034203.D

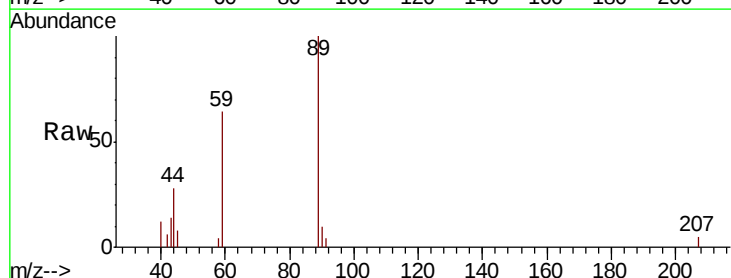
Acq: 02 Sep 2019 15:35

Tgt Ion: 59 Resp: 3677

Ion Ratio Lower Upper

59 100

57 0.5 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2000

1500

1000

500

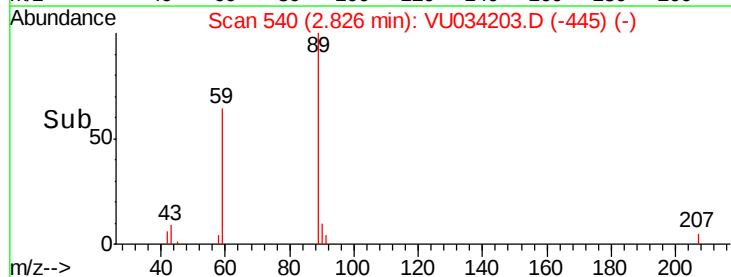
0

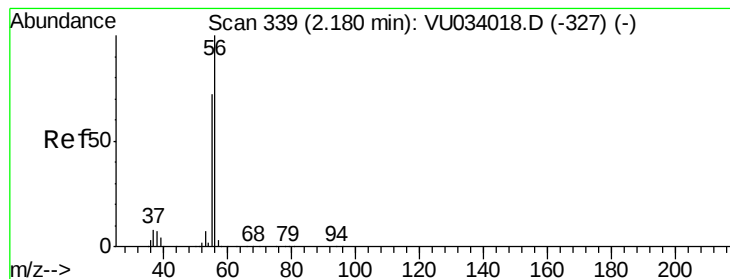
2.75

2.80

2.85

Time-->





#13

Acrolein

Concen: 0.626 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

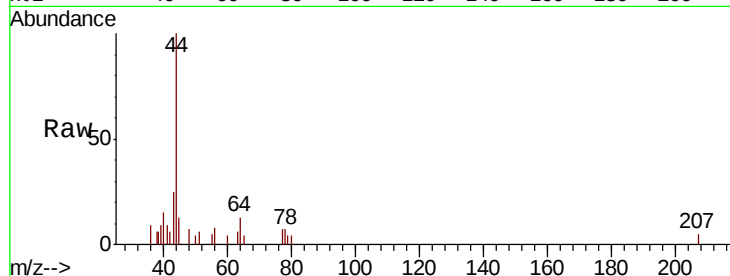
T16-17-C3-(2.25)

Tgt Ion: 56 Resp: 339

Ion Ratio Lower Upper

56 100

55 42.8 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)

Ion 55.00 (54.70 to 55.70): VU034018.D (-327) (-)

2.19

2.16 2.18 2.20 2.22

250

200

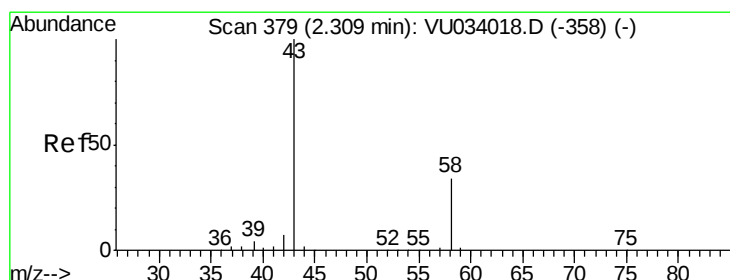
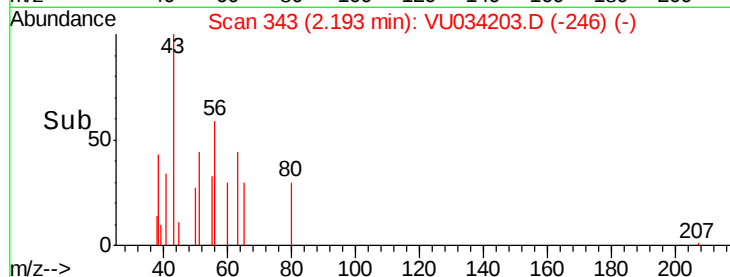
150

100

50

0

Time-->



#16

Acetone

Concen: 4.684 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034203.D

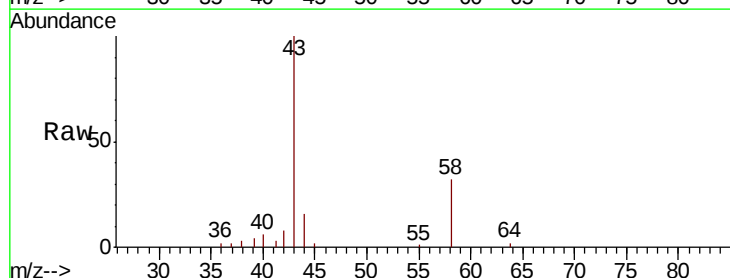
Acq: 02 Sep 2019 15:35

Tgt Ion: 43 Resp: 13333

Ion Ratio Lower Upper

43 100

58 32.9 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034203.D (-286) (-)

Ion 58.00 (57.70 to 58.70): VU034203.D (-286) (-)

2.31

2.25 2.30 2.35

8000

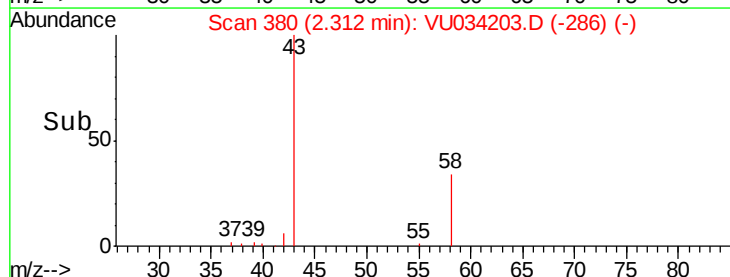
6000

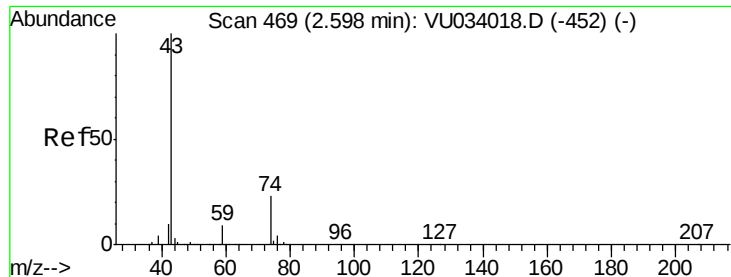
4000

2000

0

Time-->

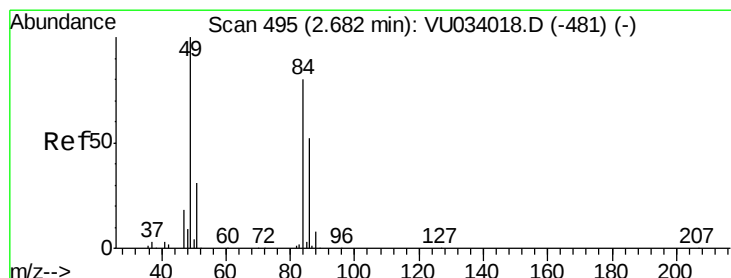
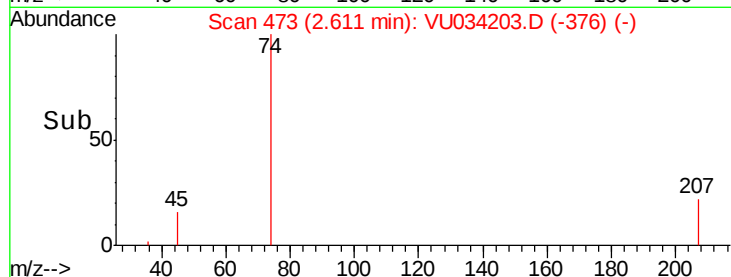
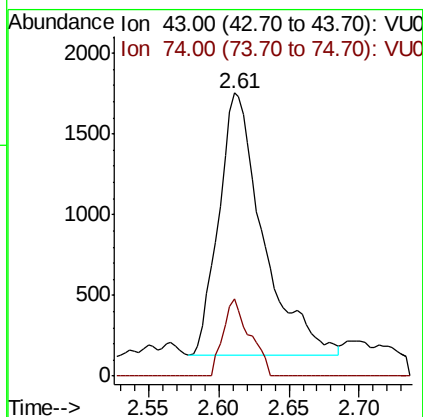
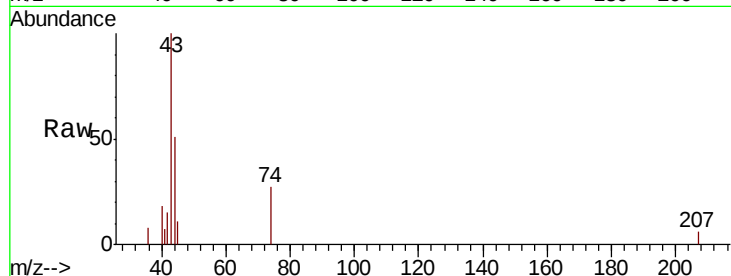




#18
Methyl Acetate
Concen: 0.484 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034203.D
Acq: 02 Sep 2019 15:35

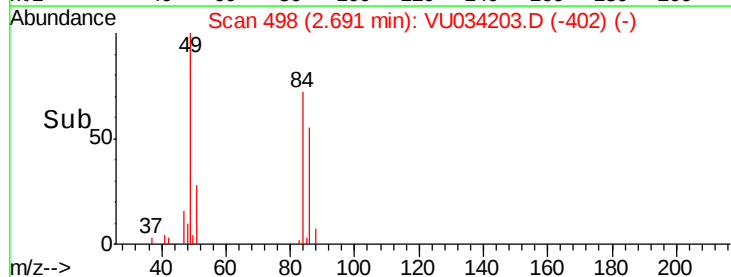
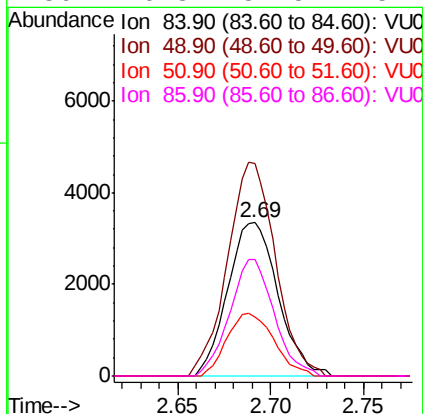
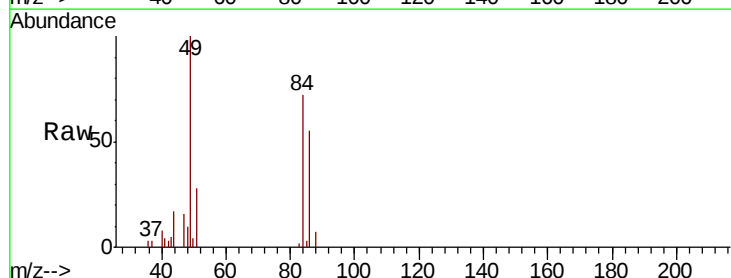
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C3-(2.25)

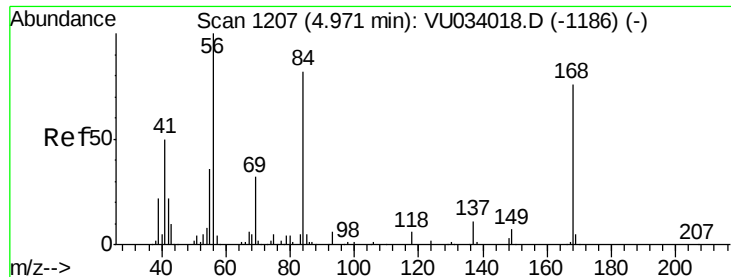
Tgt Ion: 43 Resp: 3561
Ion Ratio Lower Upper
43 100
74 17.7 19.2 28.8#



#20
Methylene Chloride
Concen: 1.172 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034203.D
Acq: 02 Sep 2019 15:35

Tgt Ion: 84 Resp: 6317
Ion Ratio Lower Upper
84 100
49 138.8 100.2 150.4
51 38.6 30.8 46.2
86 76.3 52.5 78.7





#31

Cyclohexane

Concen: 0.951 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C3-(2.25)

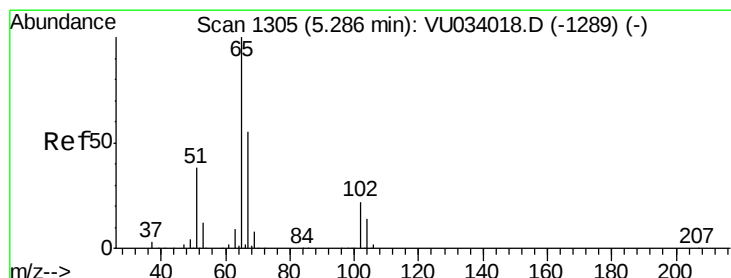
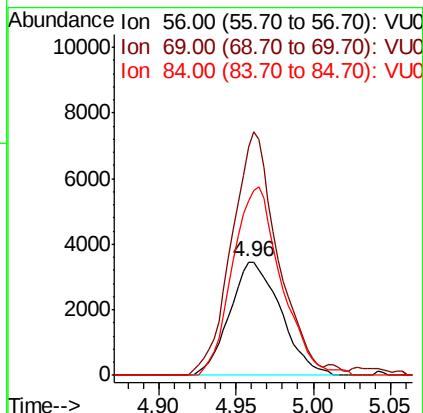
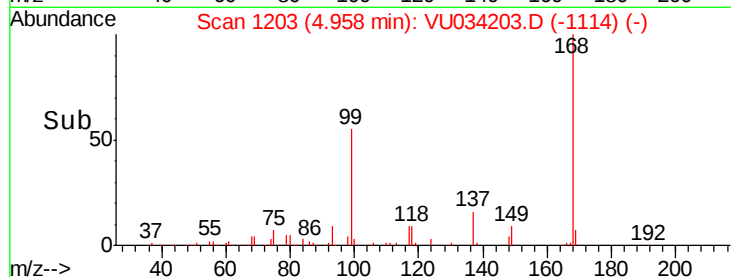
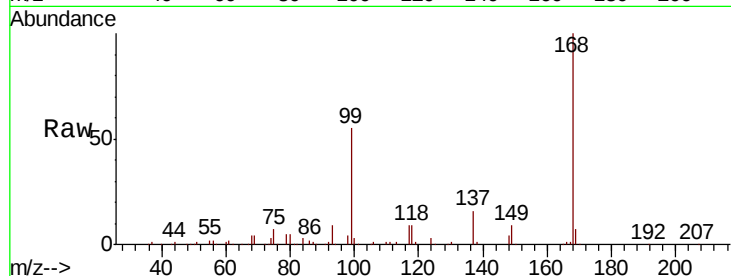
Tgt Ion: 56 Resp: 7920

Ion Ratio Lower Upper

56 100

69 200.8 25.4 38.0#

84 154.2 65.8 98.8#



#33

1,2-Dichloroethane-d4

Concen: 50.596 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034203.D

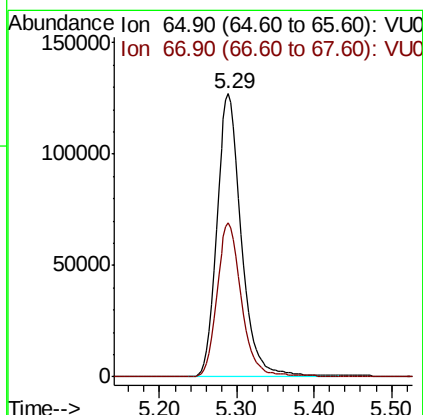
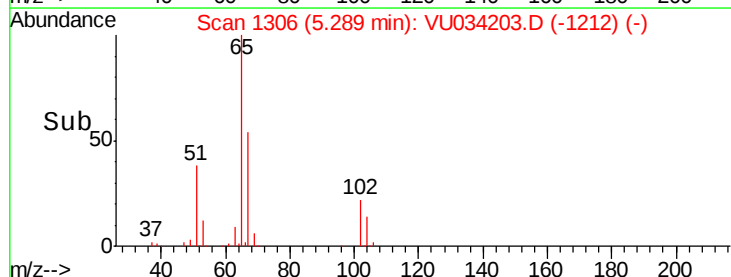
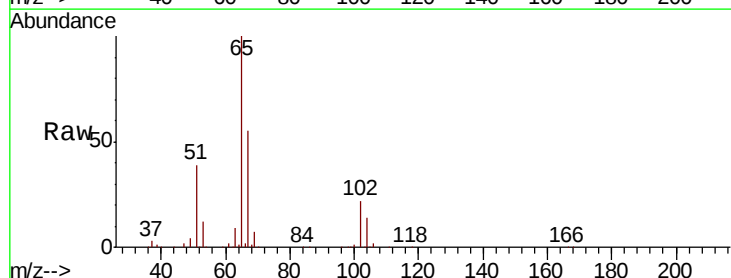
Acq: 02 Sep 2019 15:35

Tgt Ion: 65 Resp: 282256

Ion Ratio Lower Upper

65 100

67 54.2 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: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C3-(2.25)

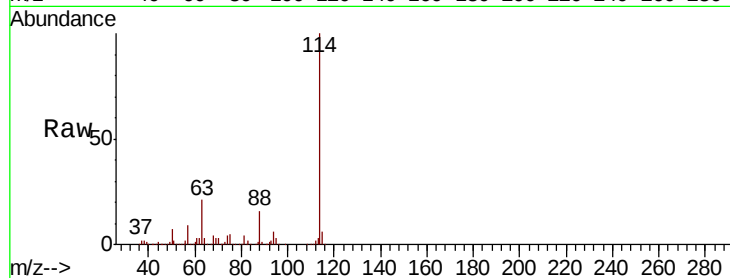
Tgt Ion:114 Resp: 703700

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.0

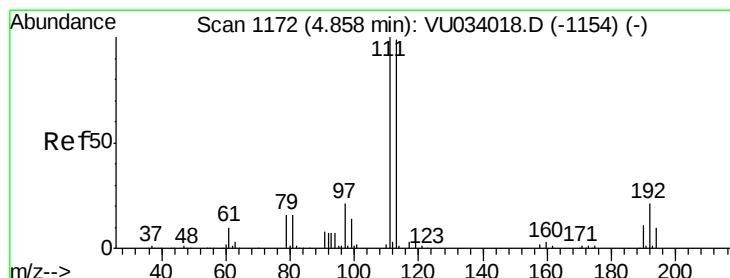
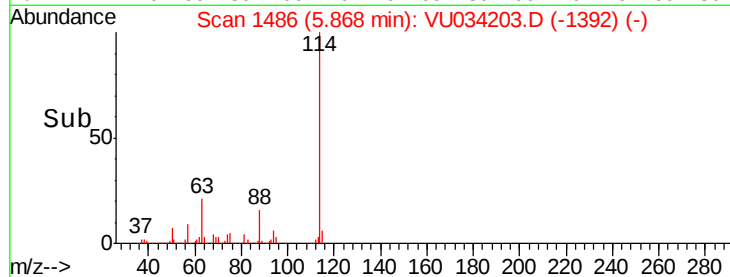
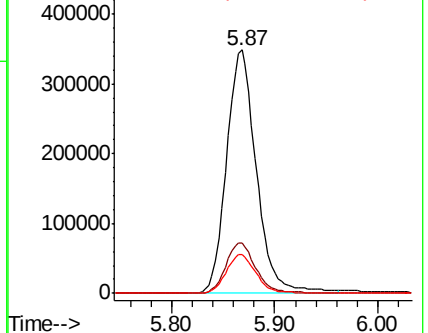
88 15.9 0.0 32.0



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: 47.821 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

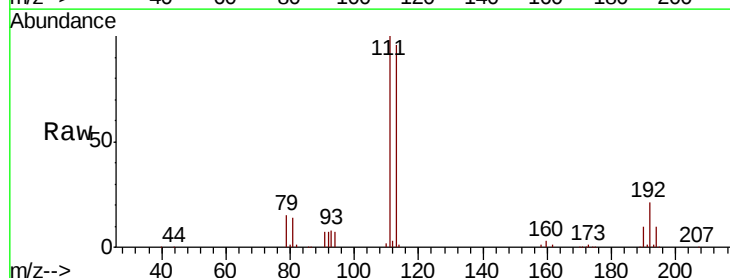
Tgt Ion:113 Resp: 233405

Ion Ratio Lower Upper

113 100

111 103.1 81.7 122.5

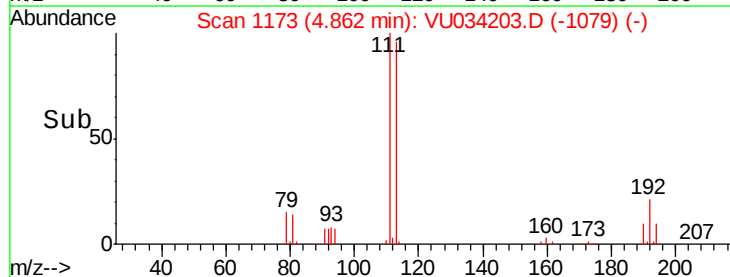
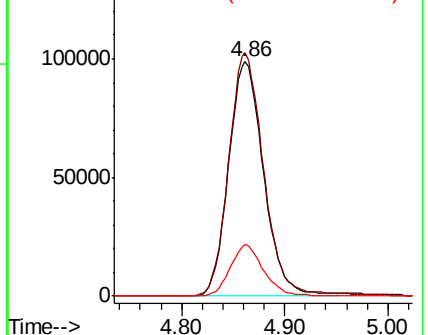
192 21.0 17.1 25.7

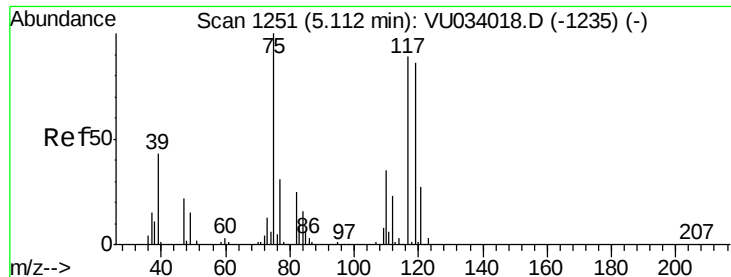


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

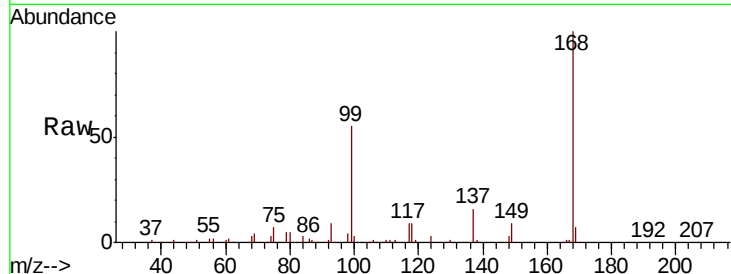




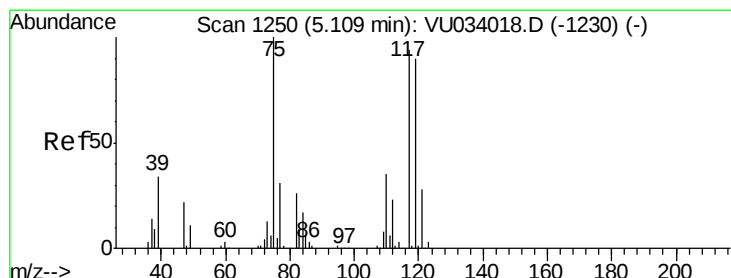
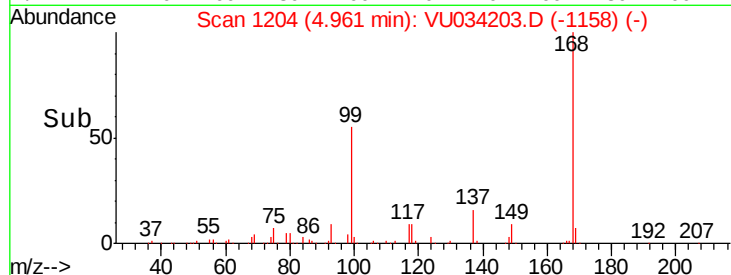
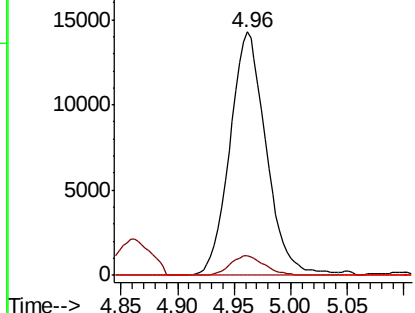
#36
 1,1-Dichloropropene
 Concen: 4.787 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C3-(2.25)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	17.8	53.5#
77	0.0	25.0	37.4#

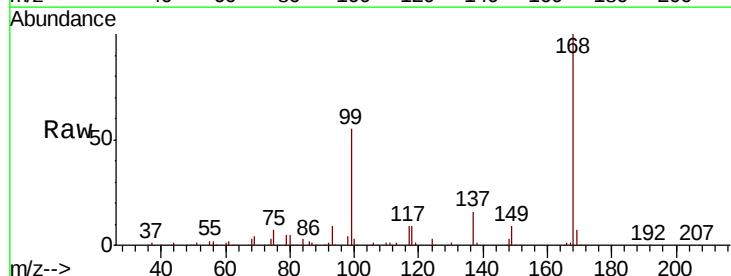


Abundance Ion 74.90 (74.60 to 75.60): VU034203.D (-1158) (-)
 Ion 109.90 (109.60 to 110.60): VU034203.D (-1158) (-)
 Ion 76.90 (76.60 to 77.60): VU034203.D (-1158) (-)

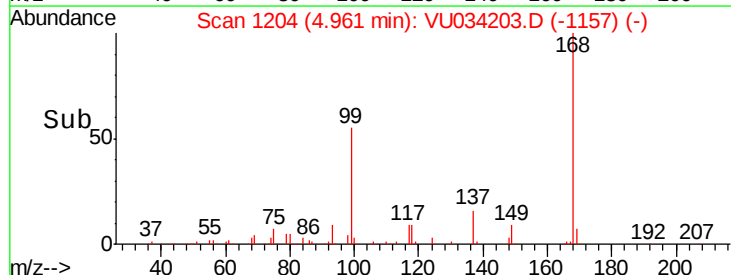
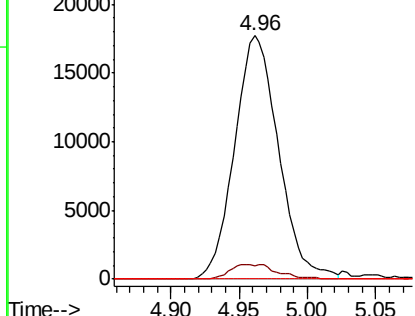


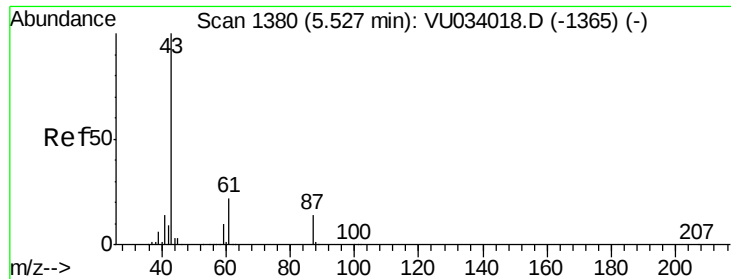
#38
 Carbon Tetrachloride
 Concen: 6.183 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

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



Abundance Ion 116.80 (116.50 to 117.50): VU034203.D (-1157) (-)
 Ion 118.80 (118.50 to 119.50): VU034203.D (-1157) (-)
 Ion 120.80 (120.50 to 121.50): VU034203.D (-1157) (-)

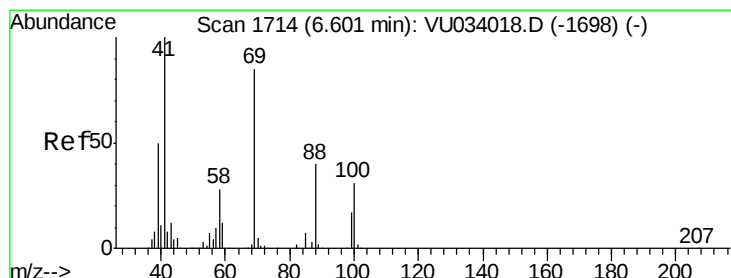
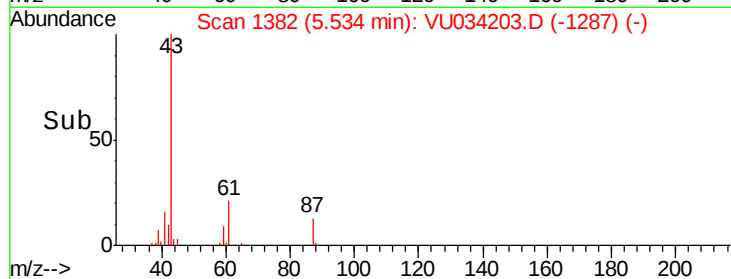
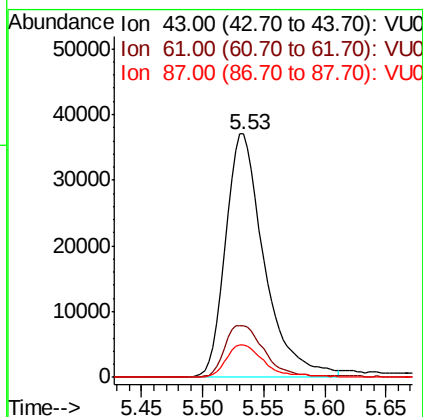
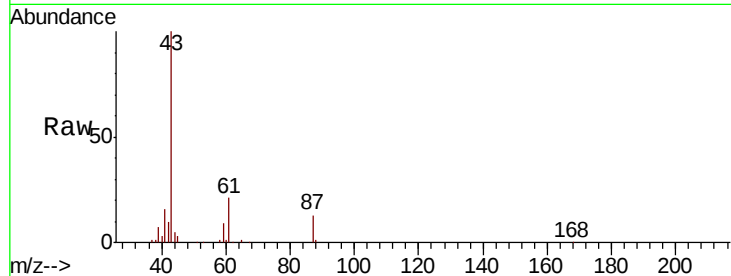




#43
Isopropyl Acetate
Concen: 7.260 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034203.D
Acq: 02 Sep 2019 15:35

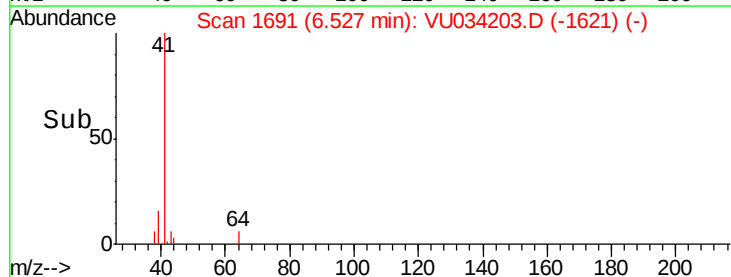
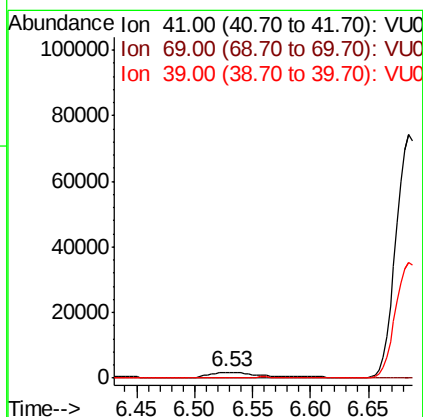
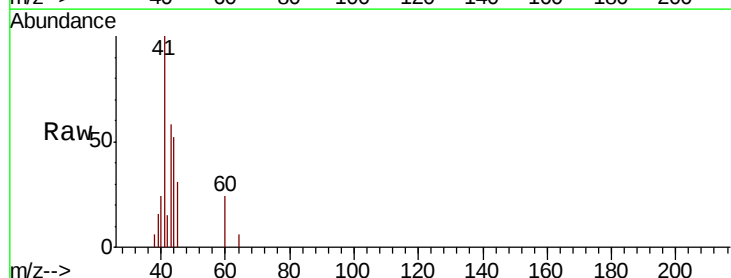
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C3-(2.25)

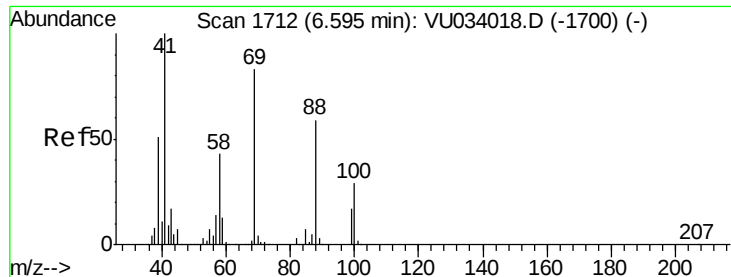
Tgt Ion	Ratio	Lower	Upper
43	100		
61	22.1	17.2	25.8
87	12.7	10.8	16.2



#48
Methyl methacrylate
Concen: 0.885 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034203.D
Acq: 02 Sep 2019 15:35

Tgt 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: 1.065 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.09 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C3-(2.25)

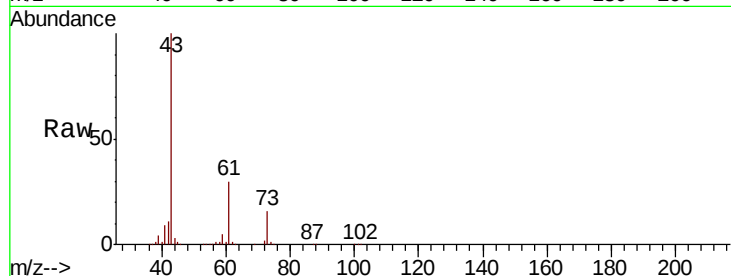
Tgt Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 1044730.1 24.8 37.2#

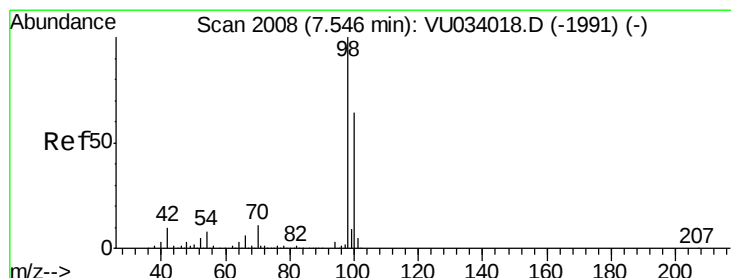
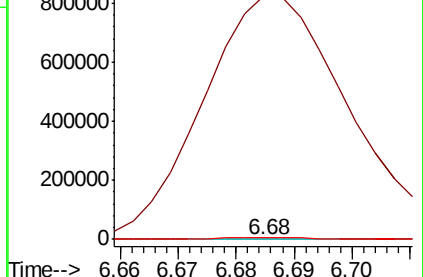
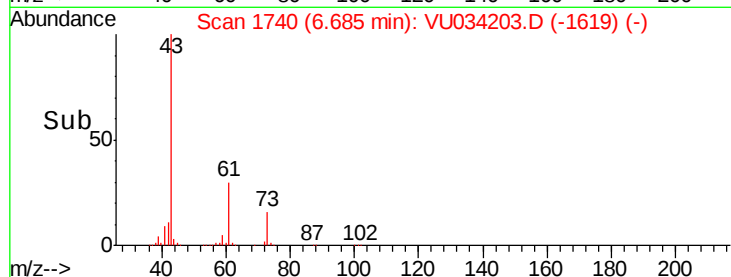
58 6172.6 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034203.D (-1619) (-)

Ion 43.00 (42.70 to 43.70): VU034203.D (-1619) (-)

Ion 58.00 (57.70 to 58.70): VU034203.D (-1619) (-)



#50

Toluene-d8

Concen: 50.421 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034203.D

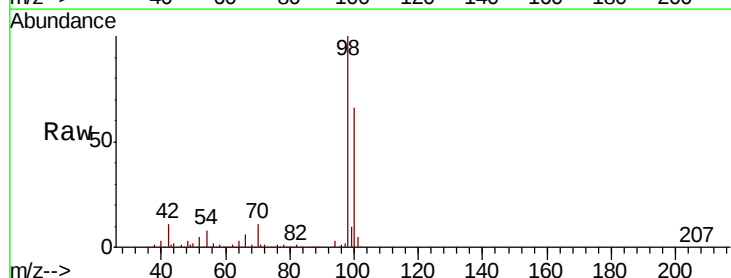
Acq: 02 Sep 2019 15:35

Tgt Ion: 98 Resp: 921477

Ion Ratio Lower Upper

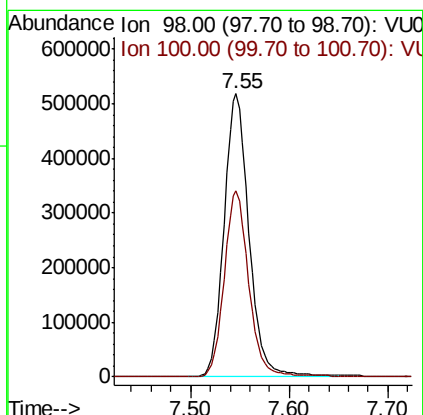
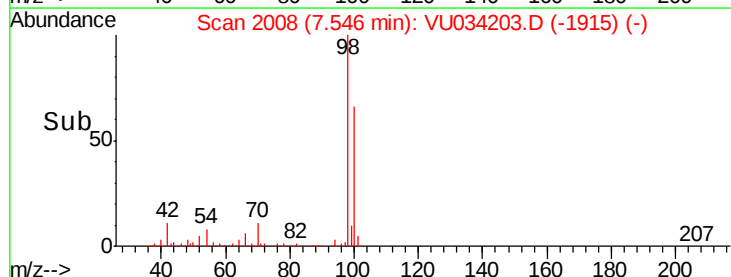
98 100

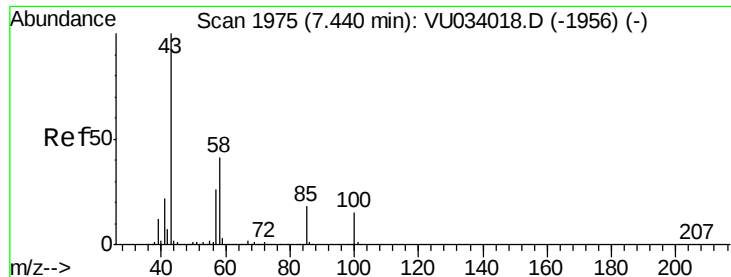
100 64.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034203.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034203.D (-1915) (-)

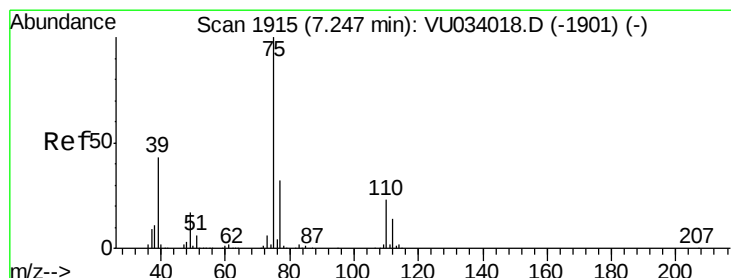
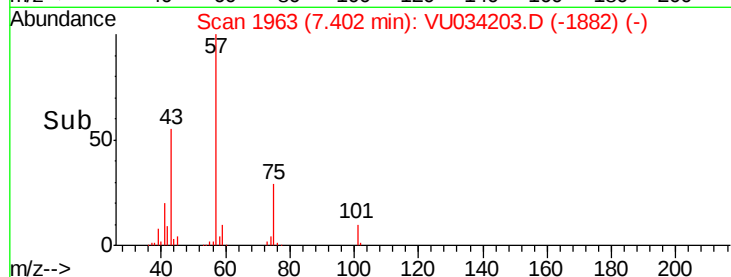
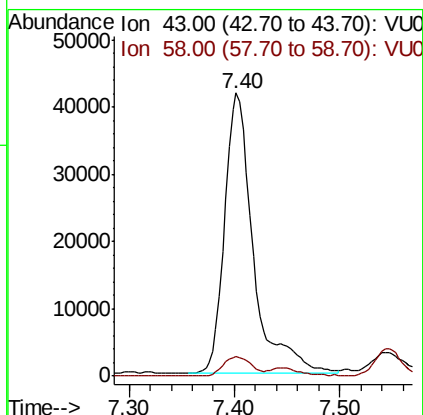
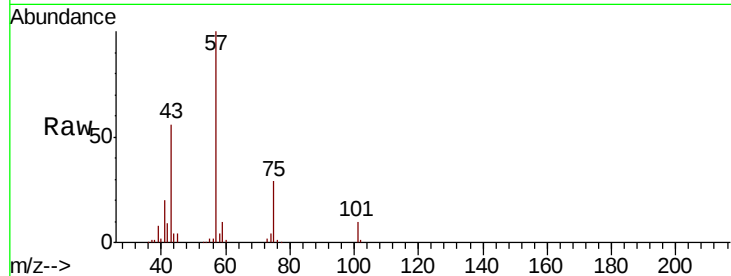




#51
 4-Methyl-2-Pentanone
 Concen: 10.073 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

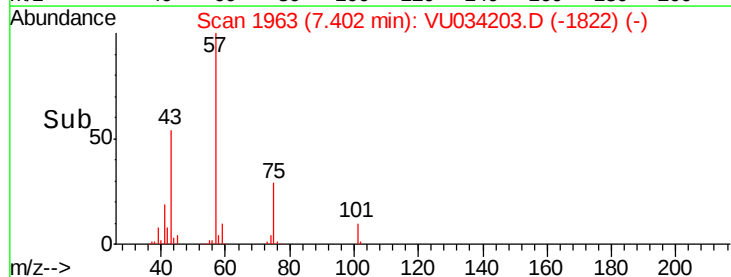
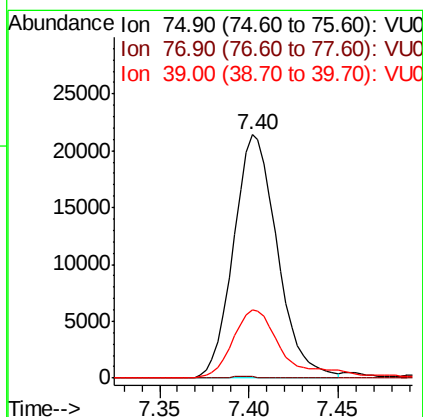
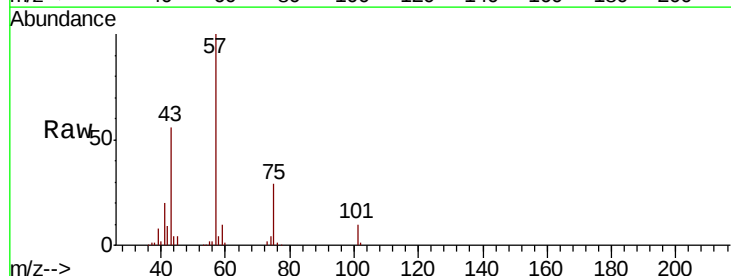
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C3-(2.25)

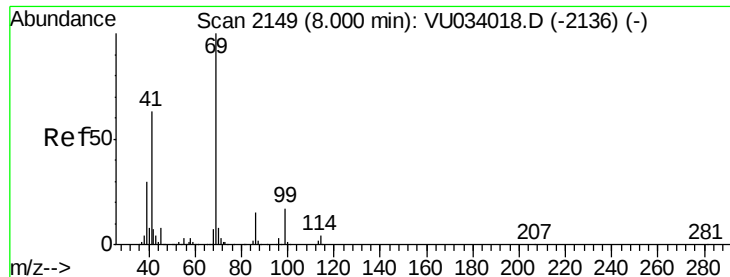
Tgt Ion: 43 Resp: 78887
 Ion Ratio Lower Upper
 43 100
 58 6.8 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.306 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

Tgt Ion: 75 Resp: 36476
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 28.0 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.988 ug/l

RT: 7.96 min Scan# 2136

Delta R.T. -0.04 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C3-(2.25)

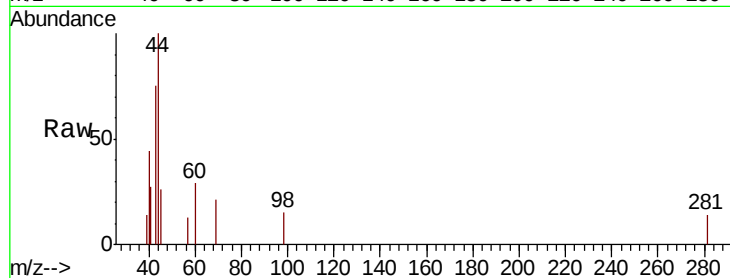
Tgt Ion: 69 Resp: 148

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

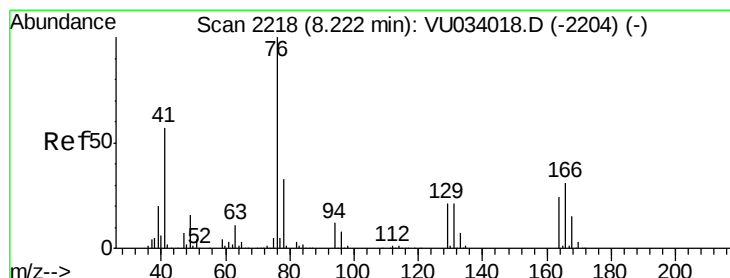
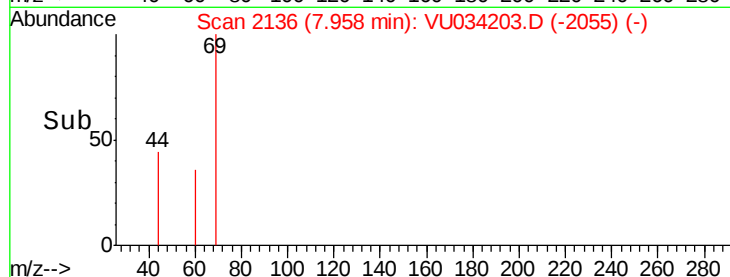
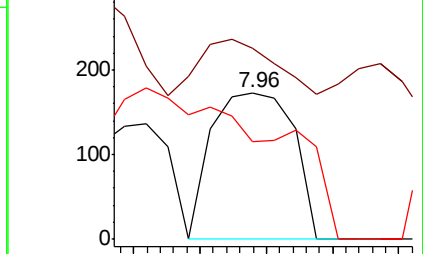
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034203.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU034203.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU034203.D (-2136) (-)



#57

1,3-Dichloropropane

Concen: 0.713 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034203.D

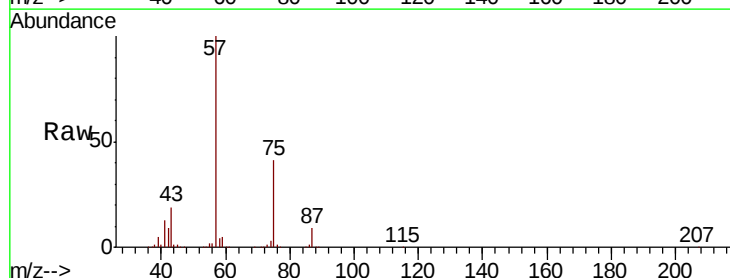
Acq: 02 Sep 2019 15:35

Tgt Ion: 76 Resp: 6351

Ion Ratio Lower Upper

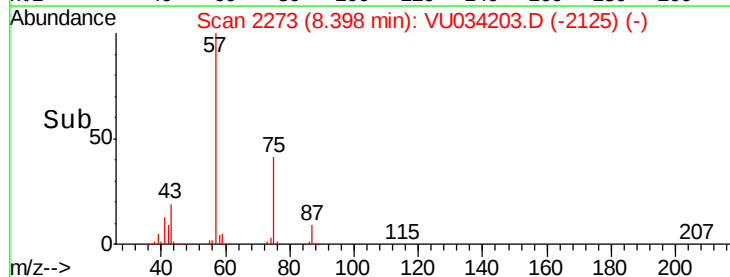
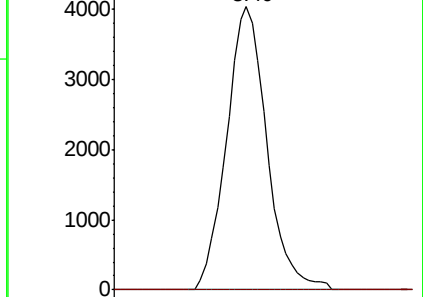
76 100

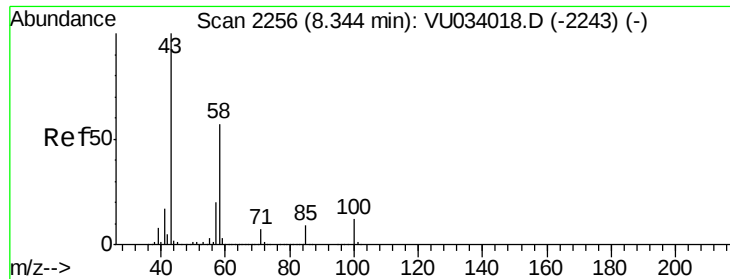
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034203.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU034203.D (-2273) (-)

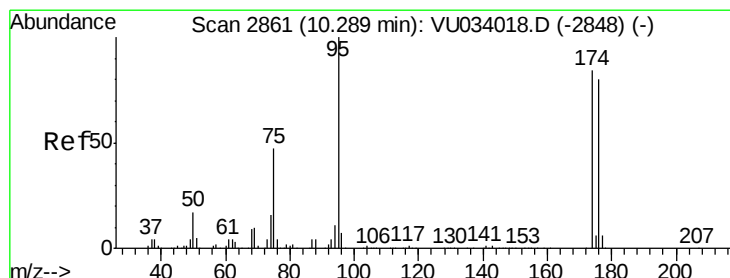
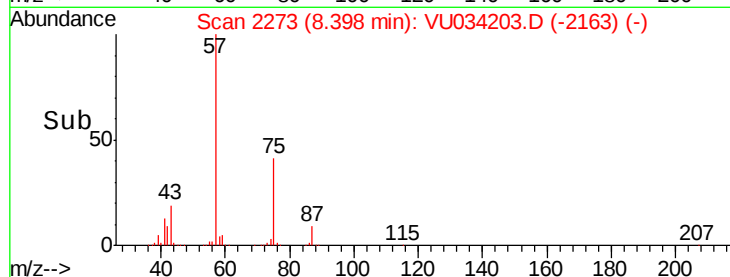
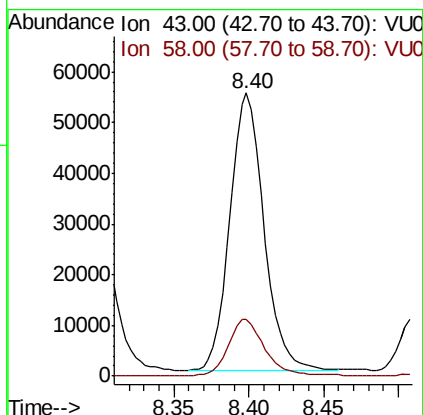
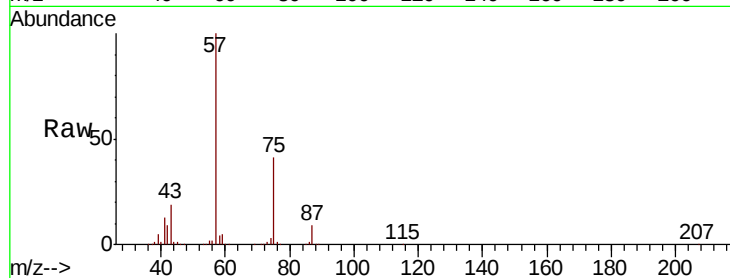




#59
 2-Hexanone
 Concen: 14.556 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

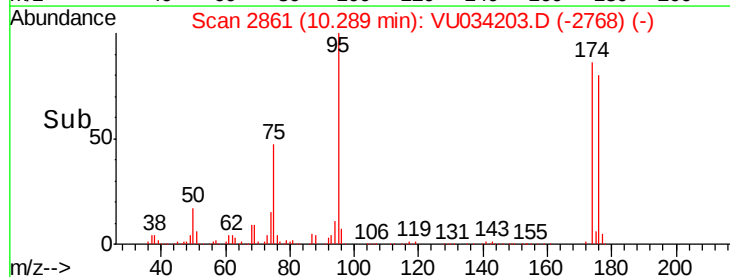
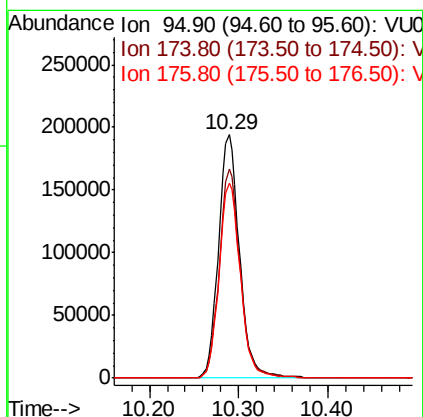
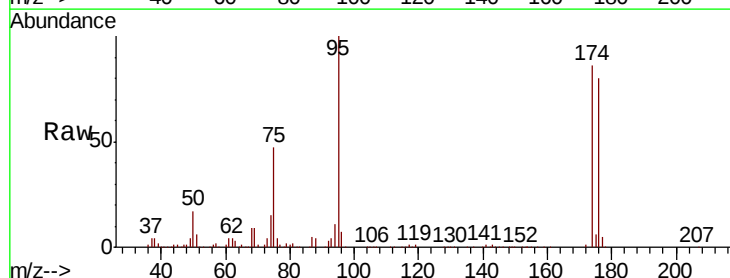
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C3-(2.25)

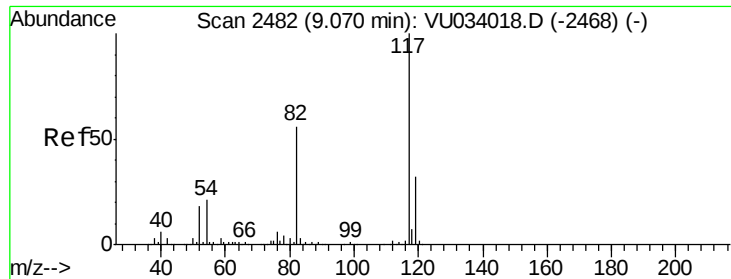
Tgt Ion: 43 Resp: 86051
 Ion Ratio Lower Upper
 43 100
 58 22.4 28.4 85.3#



#62
 4-Bromofluorobenzene
 Concen: 44.581 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

Tgt Ion: 95 Resp: 316924
 Ion Ratio Lower Upper
 95 100
 174 85.9 0.0 168.8
 176 81.2 0.0 161.8

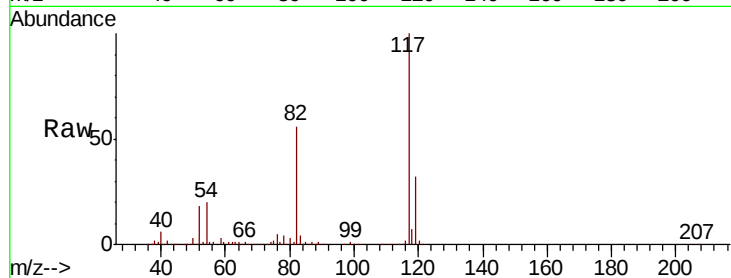




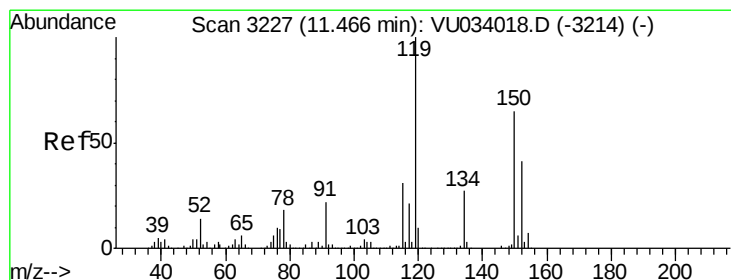
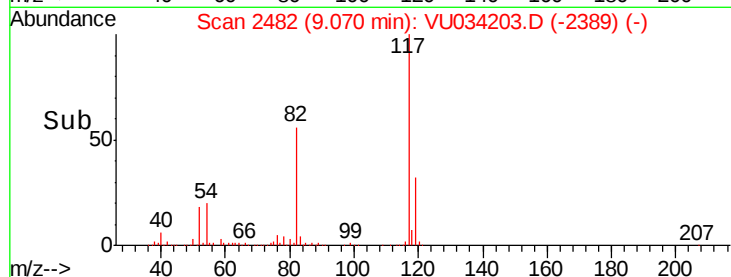
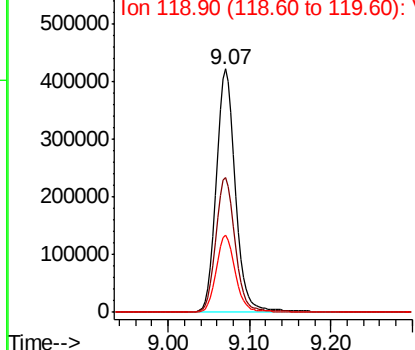
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034203.D
Acq: 02 Sep 2019 15:35

Instrument :
MSVOA_U
ClientSampleId :
T16-17-C3-(2.25)

Tgt Ion:117 Resp: 707565
Ion Ratio Lower Upper
117 100
82 55.6 45.1 67.7
119 31.8 25.4 38.0

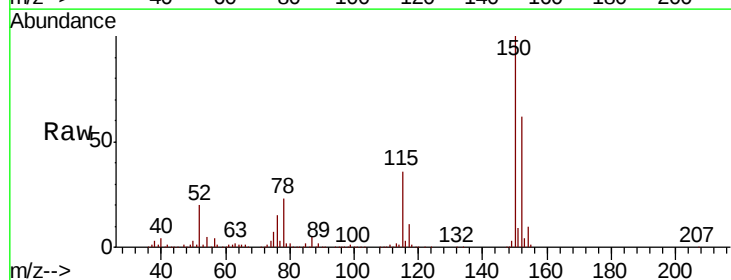


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

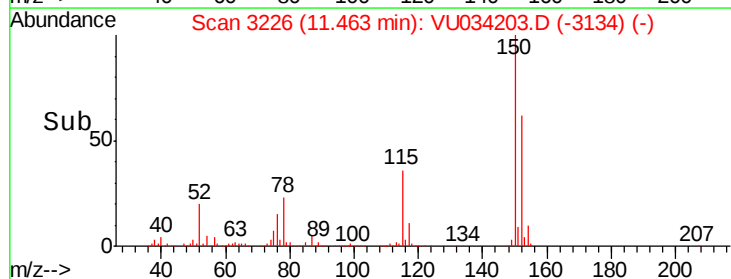
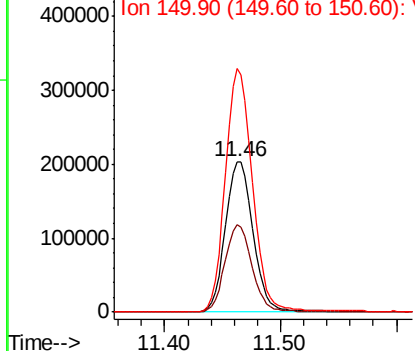


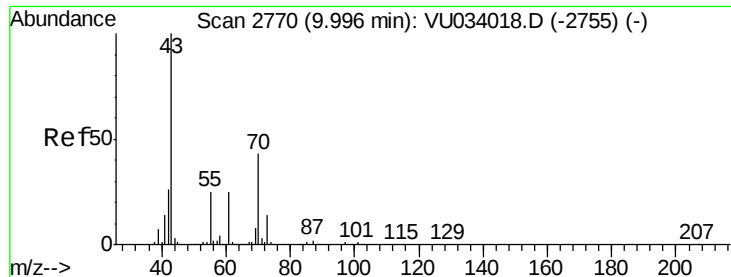
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034203.D
Acq: 02 Sep 2019 15:35

Tgt Ion:152 Resp: 336208
Ion Ratio Lower Upper
152 100
115 57.0 41.1 123.3
150 157.7 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: 0.210 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034203.D

Acq: 02 Sep 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C3-(2.25)

Tgt Ion: 43 Resp: 1993

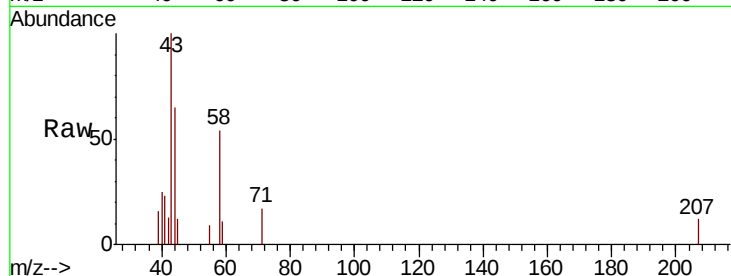
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 3.8 20.5 30.7#

61 0.0 20.0 30.0#

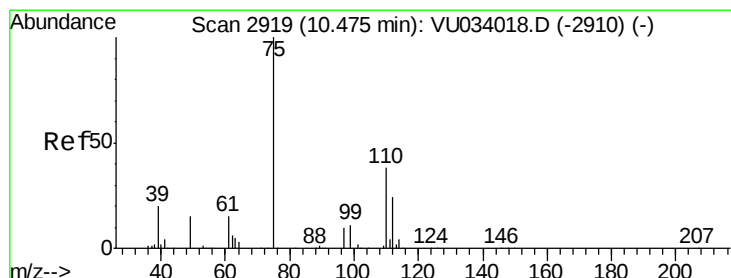
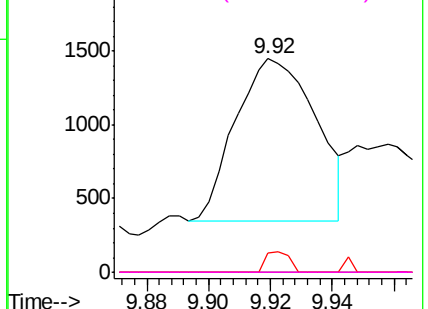
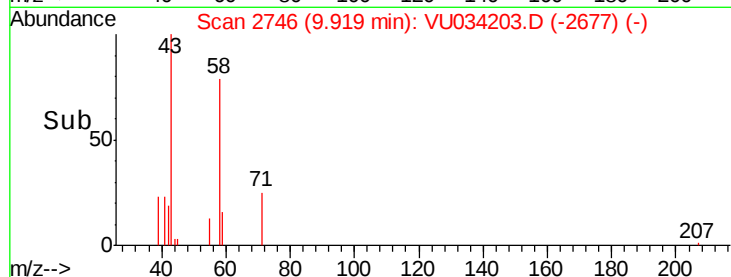


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 19.941 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034203.D

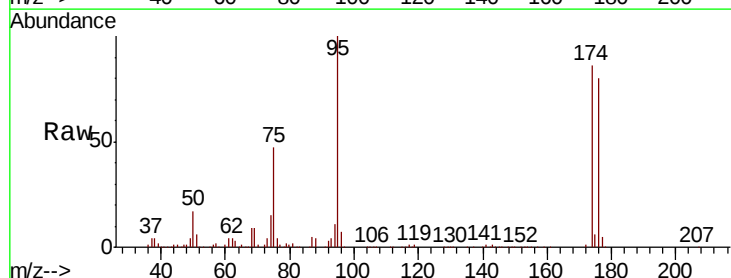
Acq: 02 Sep 2019 15:35

Tgt Ion: 75 Resp: 151107

Ion Ratio Lower Upper

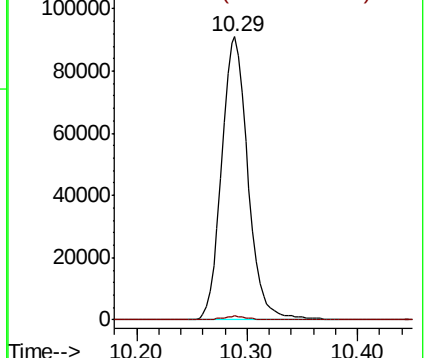
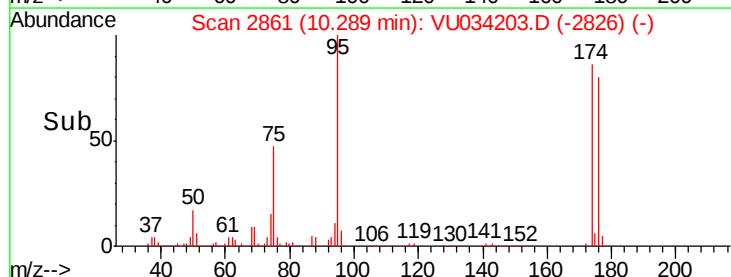
75 100

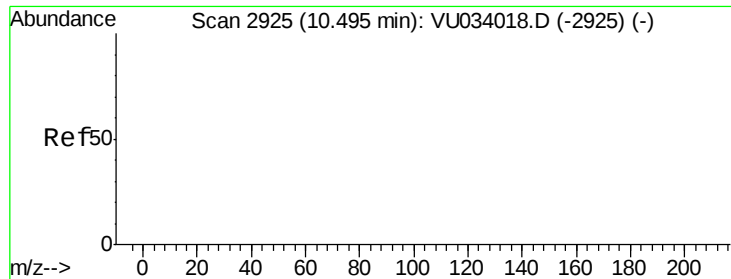
77 1.2 20.1 60.2#



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: 67.148 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034203.D
 Acq: 02 Sep 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C3-(2.25)

Tgt Ion: 75 Resp: 151107
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

