

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034205.D
 Acq On : 02 Sep 2019 16:22
 Operator : JC/SP
 Sample : K4544-40
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E1-(0)

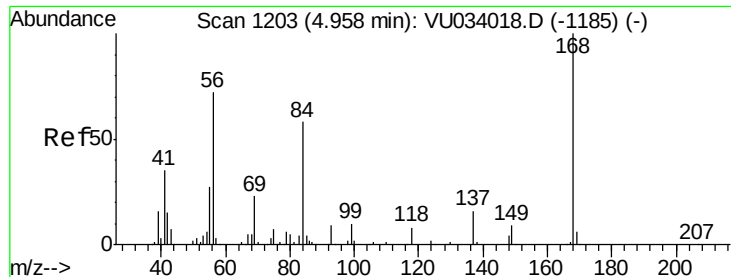
Quant Time: Sep 03 05:55:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	429589	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	706186	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	693224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	330779	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	276730	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
35) Dibromofluoromethane	4.86	113	230669	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	7.55	98	917484	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	10.29	95	313700	43.97	ug/l	0.00
Spiked Amount			Recovery	=	87.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	480	Below Cal	#	87
5) Bromomethane	1.63	94	577	Below Cal		86
8) Diethyl Ether	2.10	74	746	0.262	ug/l	88
11) Tert butyl alcohol	2.83	59	4076	3.211	ug/l #	73
16) Acetone	2.31	43	12833	4.569	ug/l #	87
18) Methyl Acetate	2.61	43	2891	0.398	ug/l	96
20) Methylene Chloride	2.69	84	9907	1.863	ug/l	97
31) Cyclohexane	4.96	56	7585	0.923	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31681	4.743	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39132	6.069	ug/l #	16
43) Isopropyl Acetate	5.53	43	81904	7.197	ug/l	99
48) Methyl methacrylate	6.53	41	4469	0.814	ug/l #	14
49) 1,4-Dioxane	6.69	88	68	0.494	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	70167	8.928	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	37186	4.375	ug/l #	64
56) Ethyl methacrylate	7.92	69	354	1.011	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6292	0.704	ug/l #	42
59) 2-Hexanone	8.40	43	82128	13.843	ug/l #	53
74) N-amyl acetate	9.92	43	2395	0.256	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	151540	20.327	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	151540	68.445	ug/l #	100
95) Naphthalene	13.86	128	48	1.792	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

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MSVOA_U

ClientSampleId :

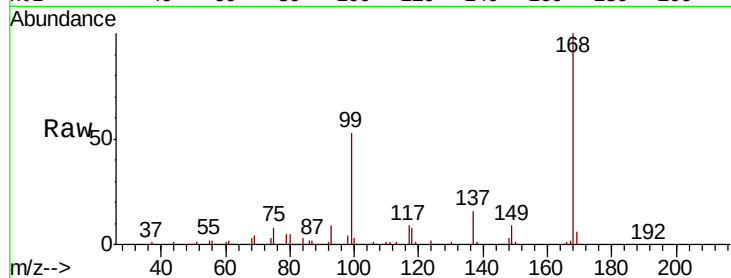
T16-17-E1-(0)

Tgt Ion:168 Resp: 429589

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

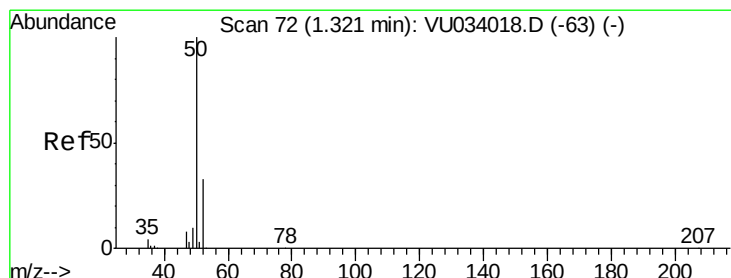
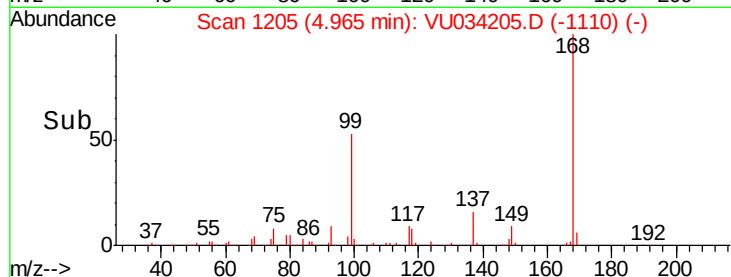
100000

50000

0

4.90 5.00

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034205.D

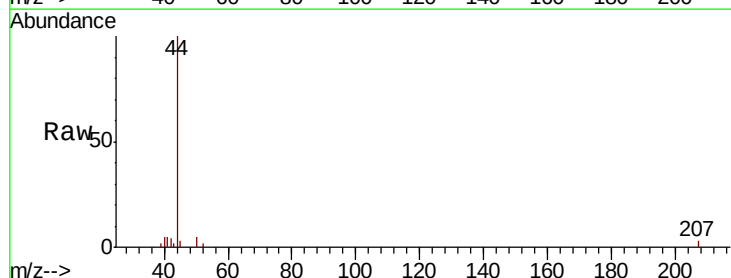
Acq: 02 Sep 2019 16:22

Tgt Ion: 50 Resp: 480

Ion Ratio Lower Upper

50 100

52 39.9 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

500

400

300

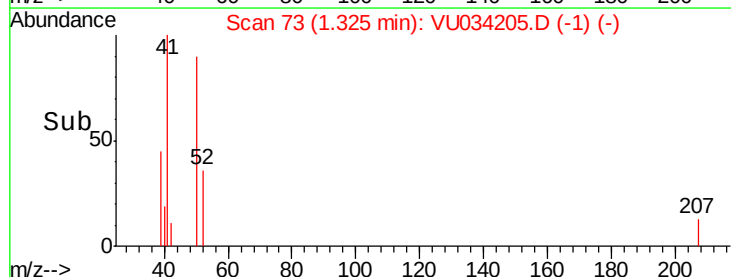
200

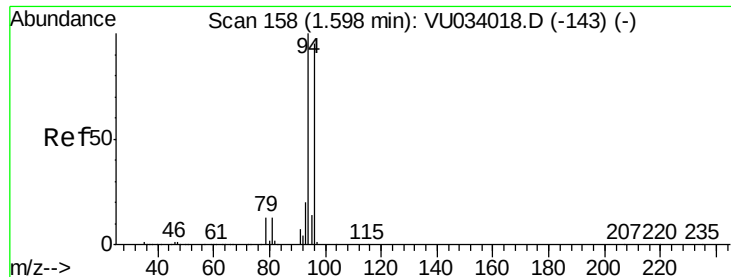
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

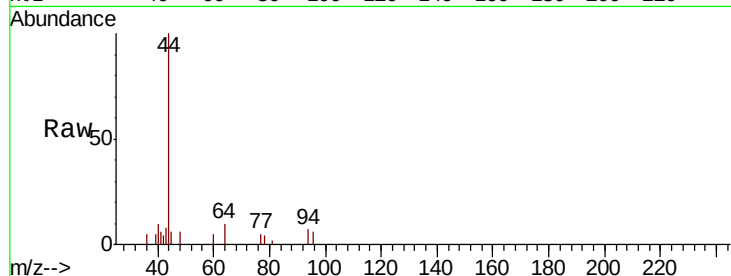
T16-17-E1-(0)

Tgt Ion: 94 Resp: 577

Ion Ratio Lower Upper

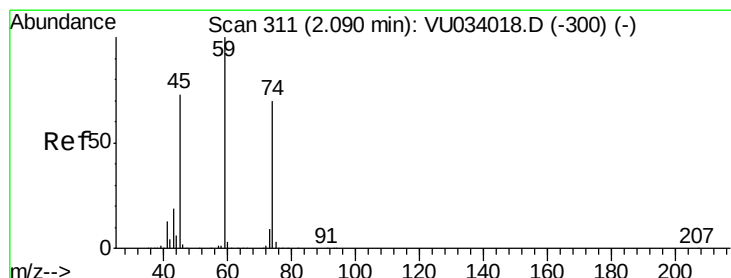
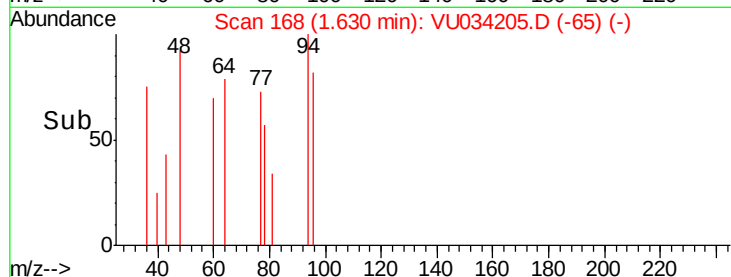
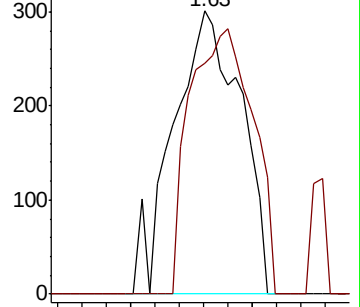
94 100

96 81.7 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#8

Diethyl Ether

Concen: 0.262 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034205.D

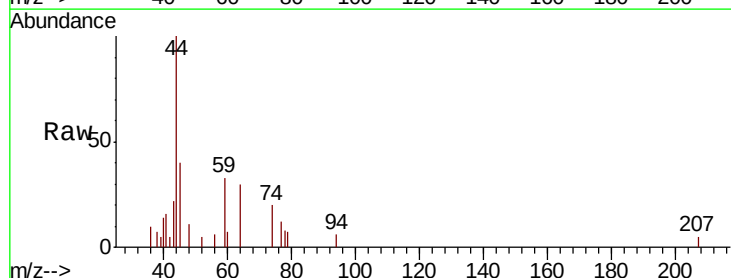
Acq: 02 Sep 2019 16:22

Tgt Ion: 74 Resp: 746

Ion Ratio Lower Upper

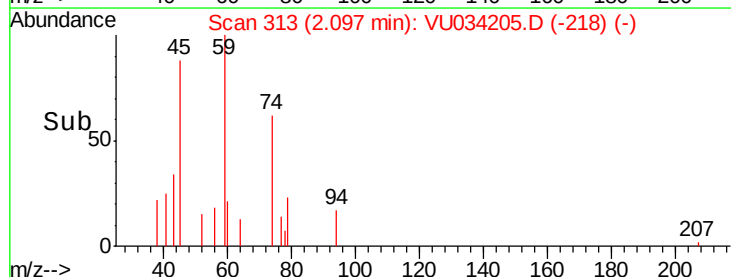
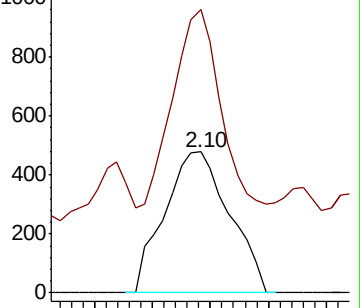
74 100

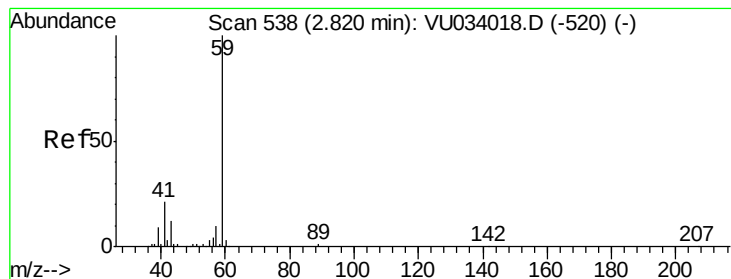
45 115.8 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#11

Tert butyl alcohol

Concen: 3.211 ug/l

RT: 2.83 min Scan# 541

Delta R.T. 0.01 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

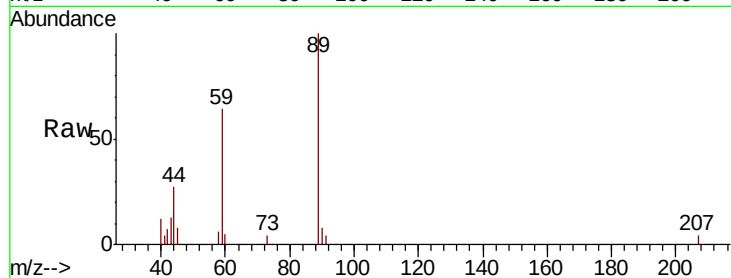
T16-17-E1-(0)

Tgt Ion: 59 Resp: 4076

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034205.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034205.D (-445) (-)

2.83

1500

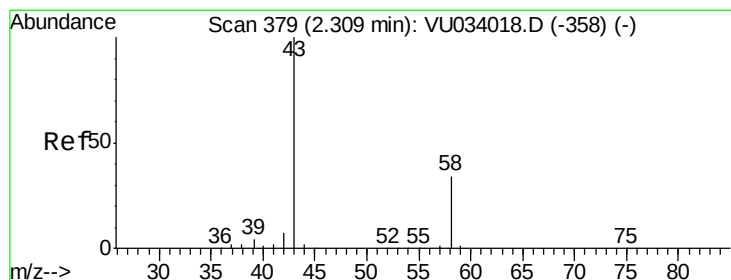
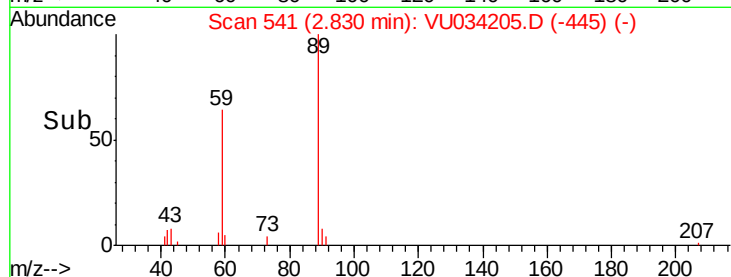
1000

500

0

2.75 2.80 2.85

Time-->



#16

Acetone

Concen: 4.569 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034205.D

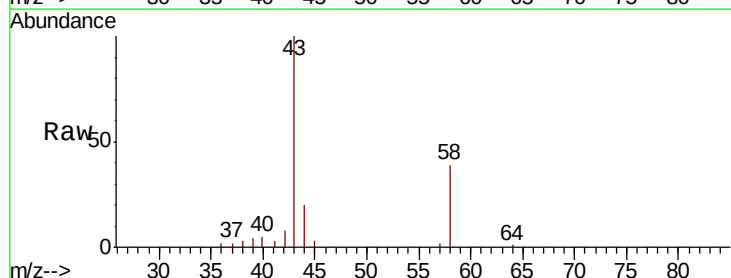
Acq: 02 Sep 2019 16:22

Tgt Ion: 43 Resp: 12833

Ion Ratio Lower Upper

43 100

58 41.1 26.8 40.2#



Abundance Ion 43.00 (42.70 to 43.70): VU034205.D (-286) (-)

Ion 58.00 (57.70 to 58.70): VU034205.D (-286) (-)

2.31

8000

6000

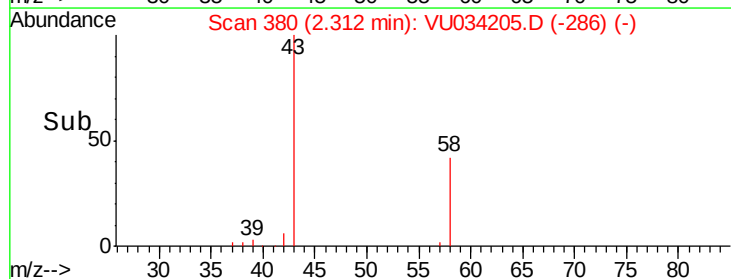
4000

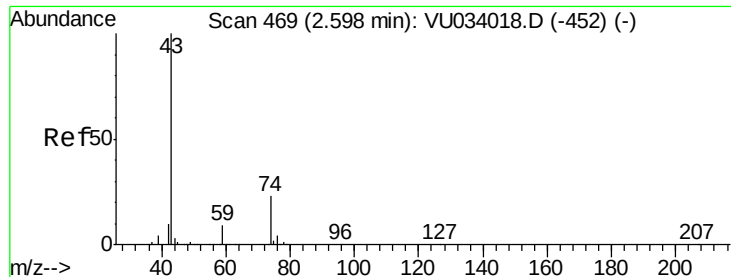
2000

0

2.25 2.30 2.35 2.40

Time-->

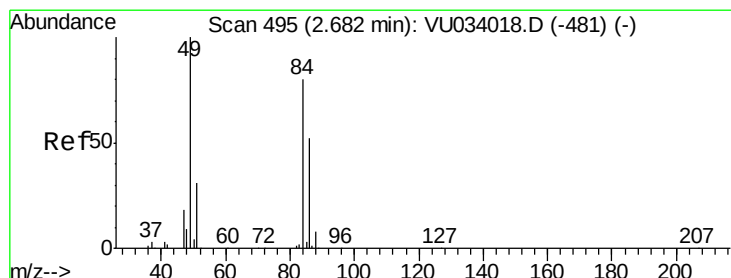
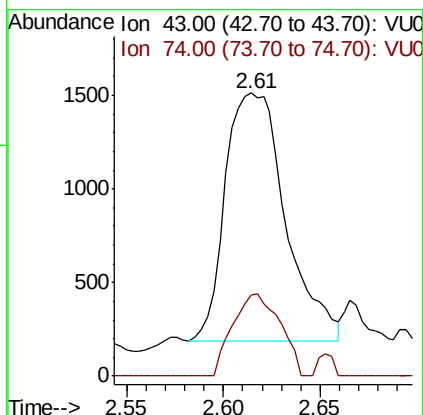
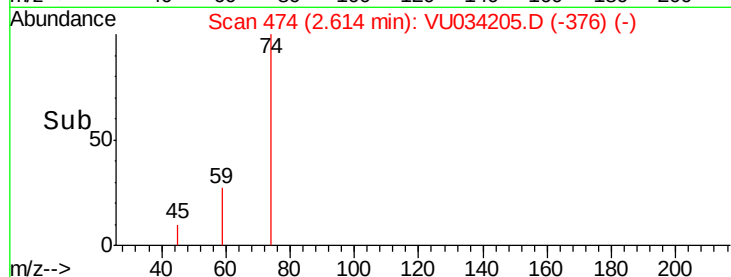
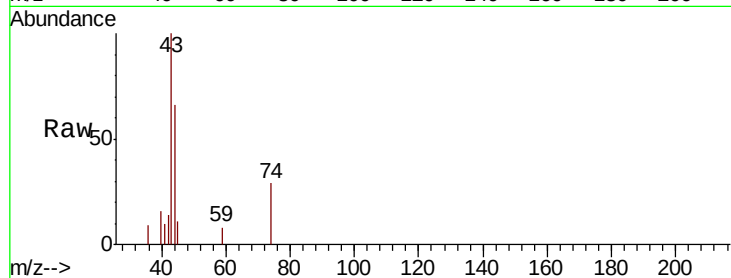




#18
Methyl Acetate
Concen: 0.398 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

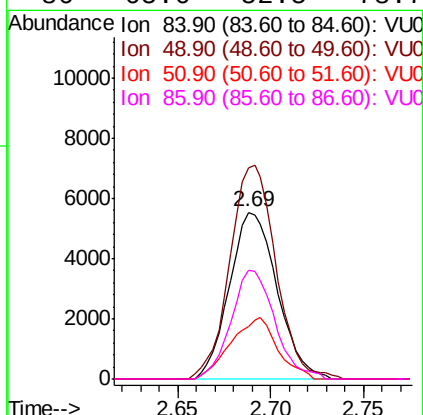
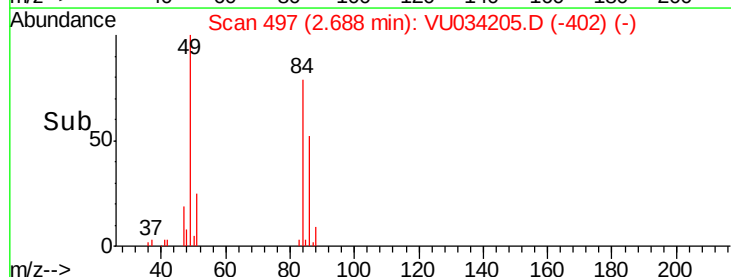
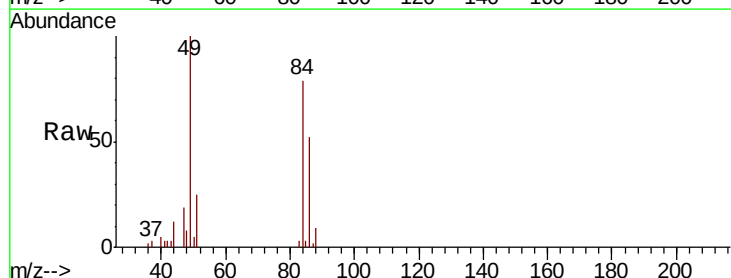
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E1-(0)

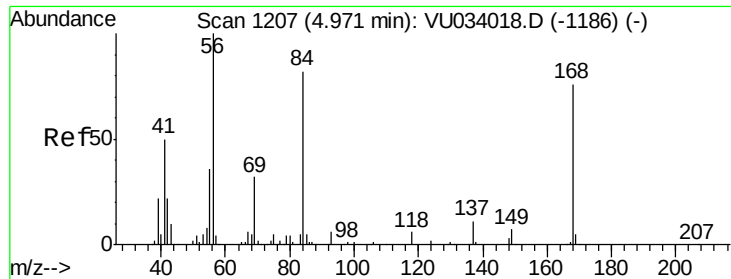
Tgt Ion: 43 Resp: 2891
Ion Ratio Lower Upper
43 100
74 25.9 19.2 28.8



#20
Methylene Chloride
Concen: 1.863 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

Tgt Ion: 84 Resp: 9907
Ion Ratio Lower Upper
84 100
49 127.0 100.2 150.4
51 31.6 30.8 46.2
86 65.6 52.5 78.7

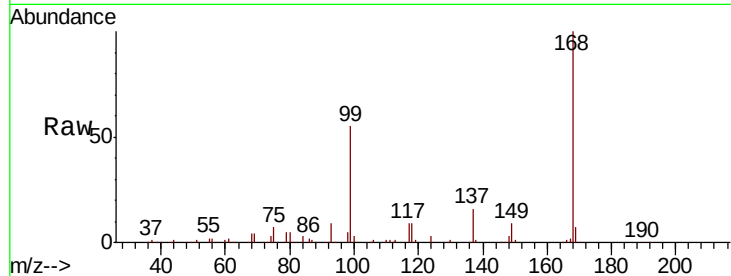




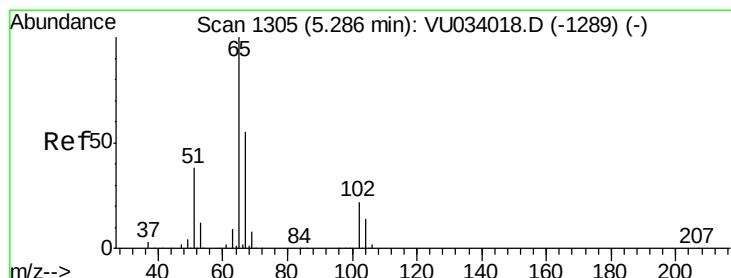
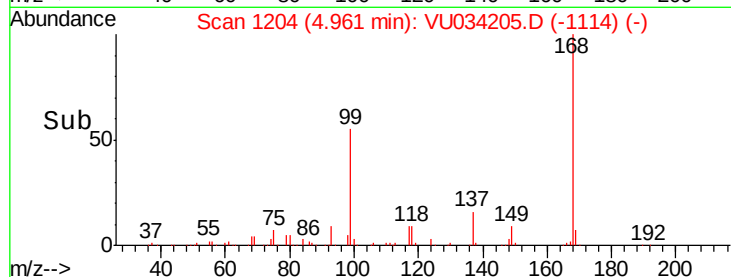
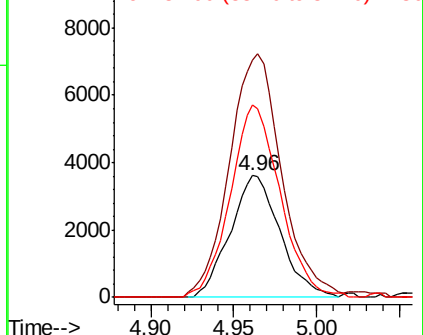
#31
Cyclohexane
Concen: 0.923 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E1-(0)

Tgt Ion: 56 Resp: 7585
Ion Ratio Lower Upper
56 100
69 190.5 25.4 38.0#
84 155.4 65.8 98.8#

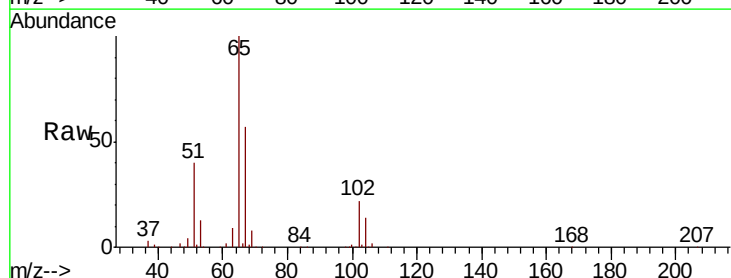


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

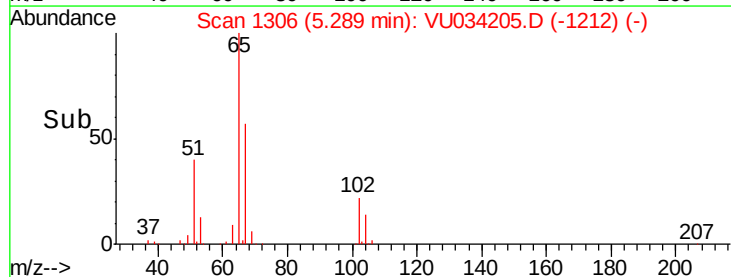
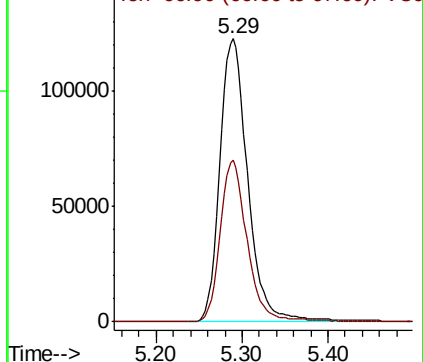


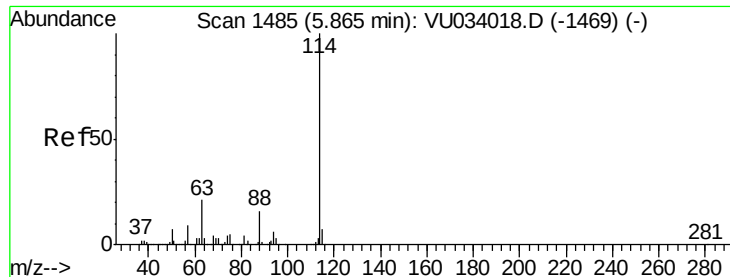
#33
1,2-Dichloroethane-d4
Concen: 50.273 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

Tgt Ion: 65 Resp: 276730
Ion Ratio Lower Upper
65 100
67 55.0 0.0 110.6



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

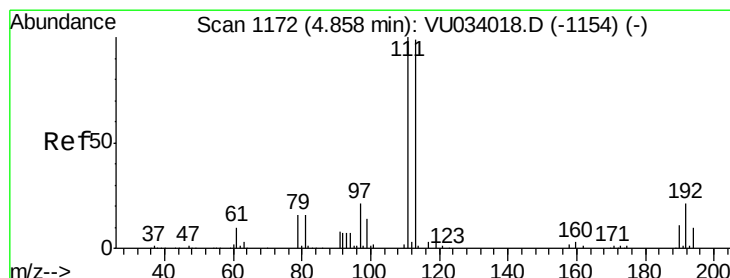
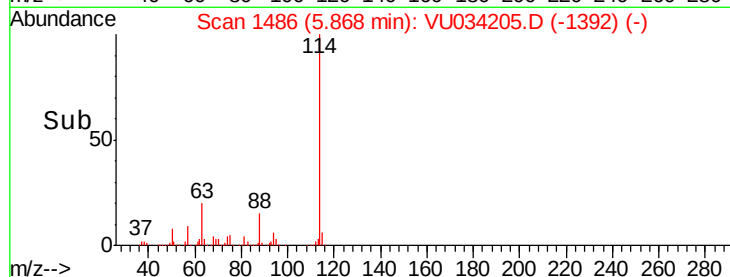
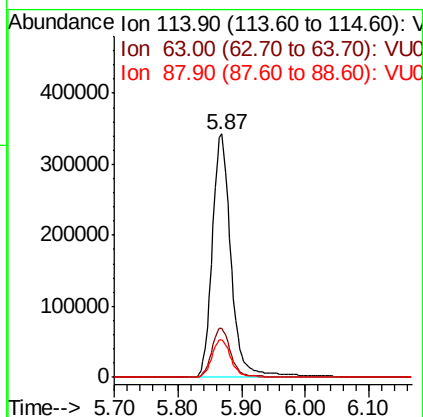
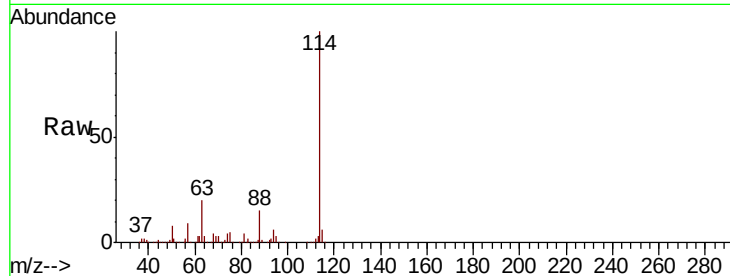




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034205.D
 Acq: 02 Sep 2019 16:22

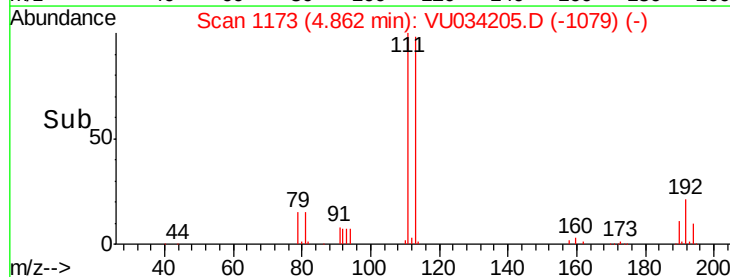
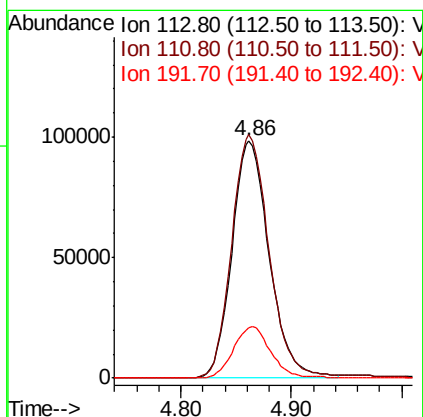
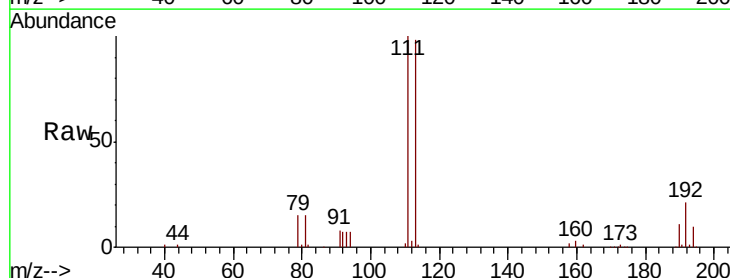
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E1-(0)

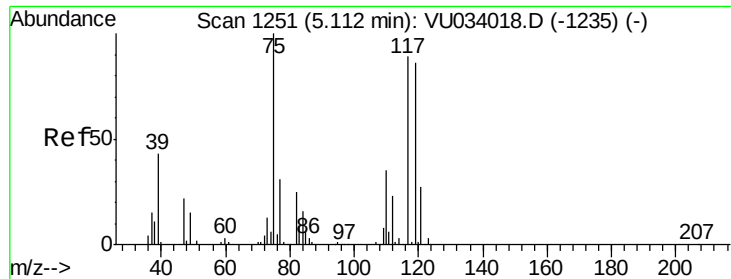
Tgt Ion:	114	Resp:	706186
Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.0
88	15.4	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 47.094 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034205.D
 Acq: 02 Sep 2019 16:22

Tgt Ion:	113	Resp:	230669
Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.7	122.5
192	21.7	17.1	25.7

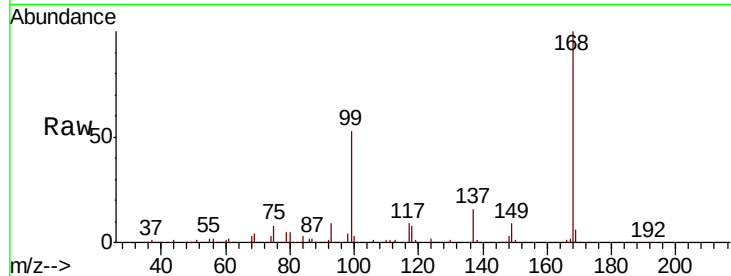




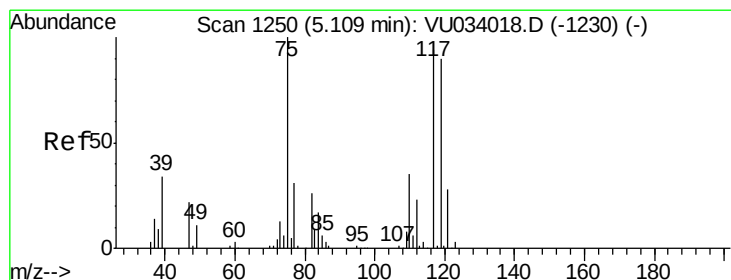
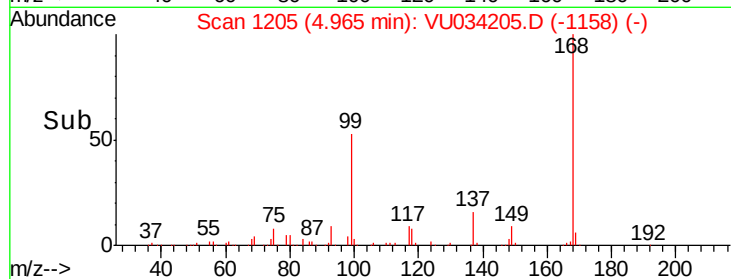
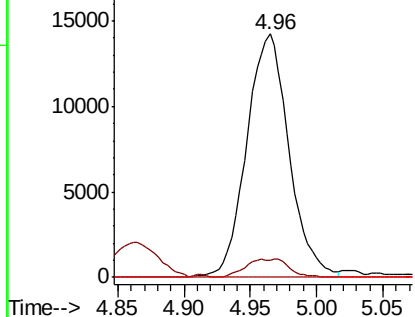
#36
 1,1-Dichloropropene
 Concen: 4.743 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034205.D
 Acq: 02 Sep 2019 16:22

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E1-(0)

Tgt Ion: 75 Resp: 31681
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.8 53.5#
 77 0.0 25.0 37.4#

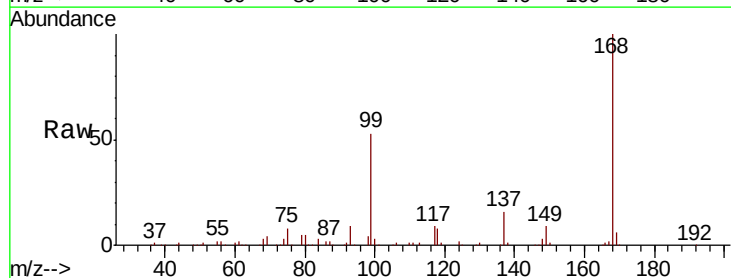


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

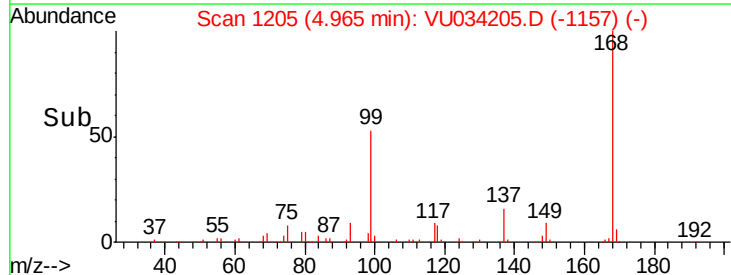
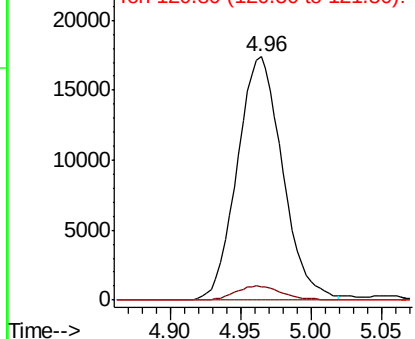


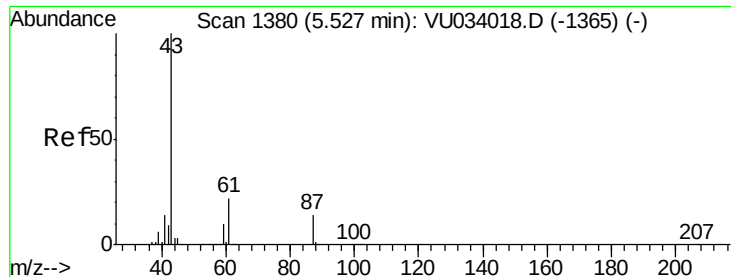
#38
 Carbon Tetrachloride
 Concen: 6.069 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034205.D
 Acq: 02 Sep 2019 16:22

Tgt Ion: 117 Resp: 39132
 Ion Ratio Lower Upper
 117 100
 119 5.7 77.0 115.4#
 121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 7.197 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E1-(0)

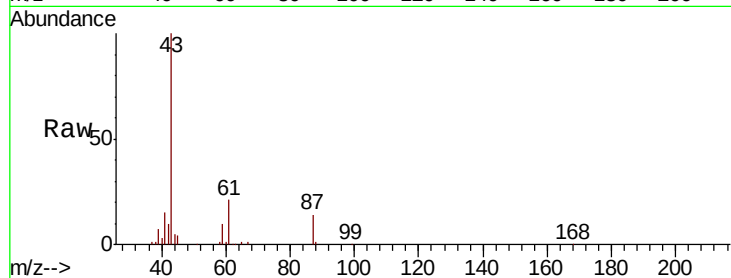
Tgt Ion: 43 Resp: 81904

Ion Ratio Lower Upper

43 100

61 21.6 17.2 25.8

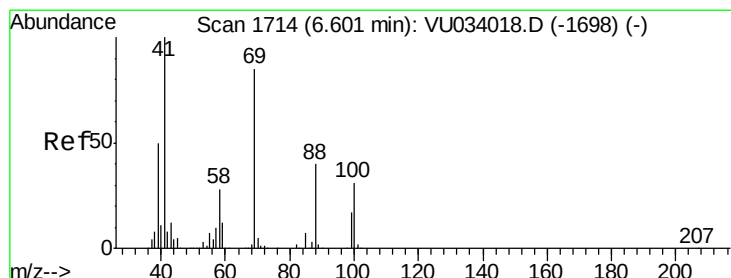
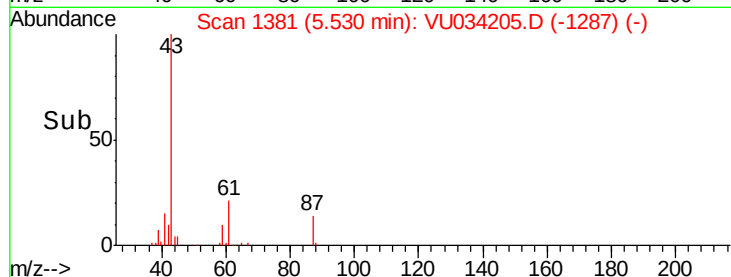
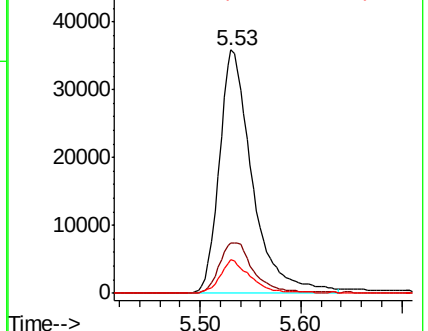
87 12.8 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1365) (-)

Ion 61.00 (60.70 to 61.70): VU034018.D (-1365) (-)

Ion 87.00 (86.70 to 87.70): VU034018.D (-1365) (-)



#48

Methyl methacrylate

Concen: 0.814 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

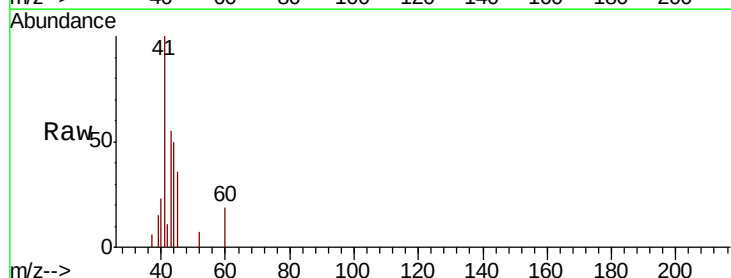
Tgt Ion: 41 Resp: 4469

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

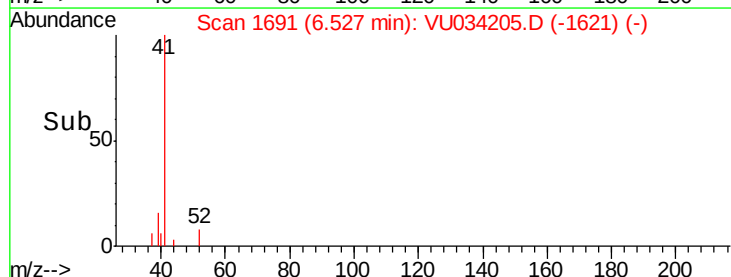
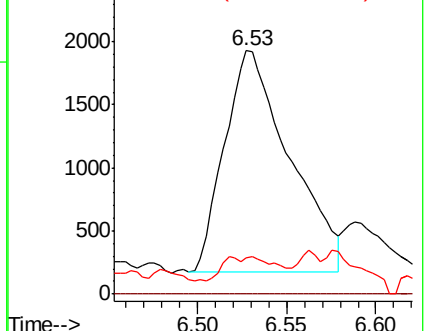
39 0.0 40.3 60.5#

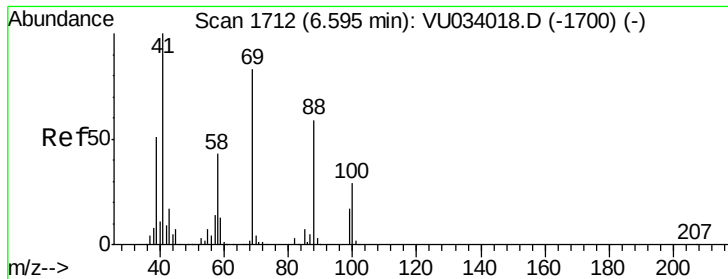


Abundance Ion 41.00 (40.70 to 41.70): VU034018.D (-1698) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1698) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1698) (-)





#49

1,4-Dioxane

Concen: 0.494 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E1-(0)

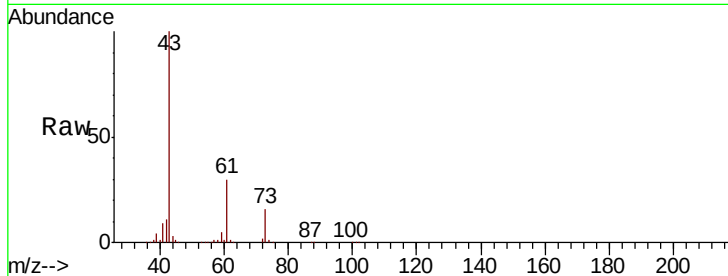
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 2199122.1 24.8 37.2#

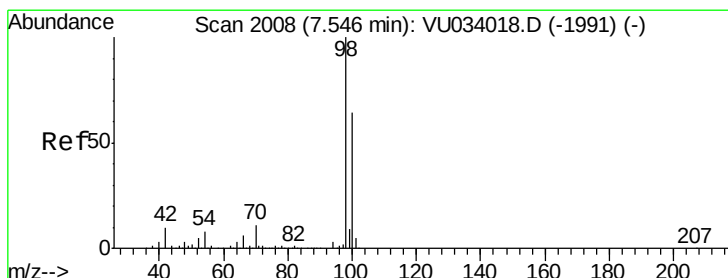
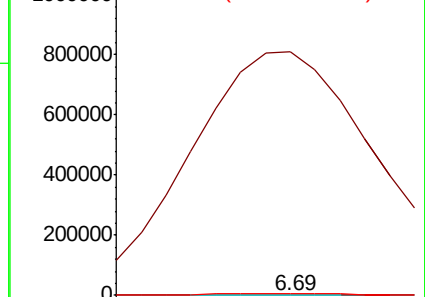
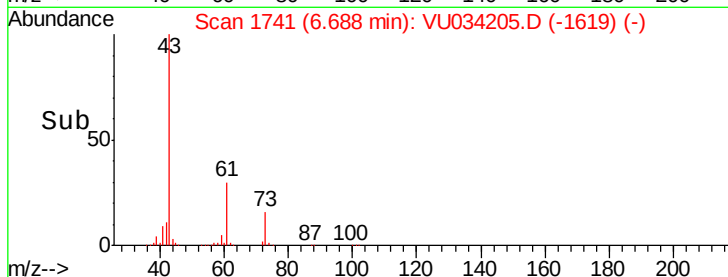
58 12289.7 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034018.D (-1700) (-)

Ion 43.00 (42.70 to 43.70): VU034018.D (-1700) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-1700) (-)



#50

Toluene-d8

Concen: 50.026 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034205.D

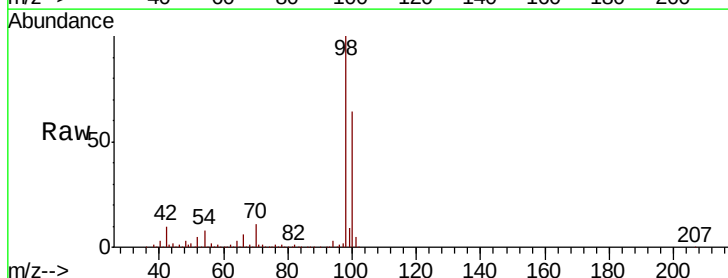
Acq: 02 Sep 2019 16:22

Tgt Ion: 98 Resp: 917484

Ion Ratio Lower Upper

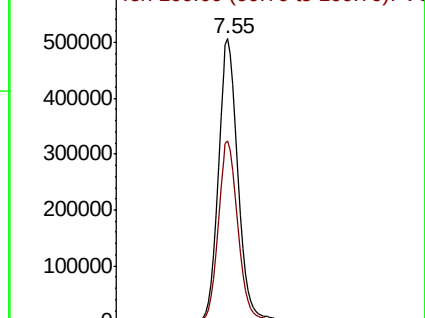
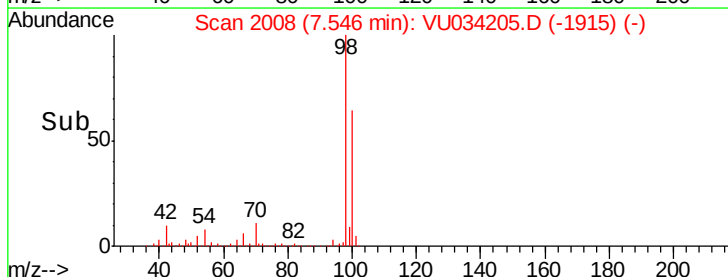
98 100

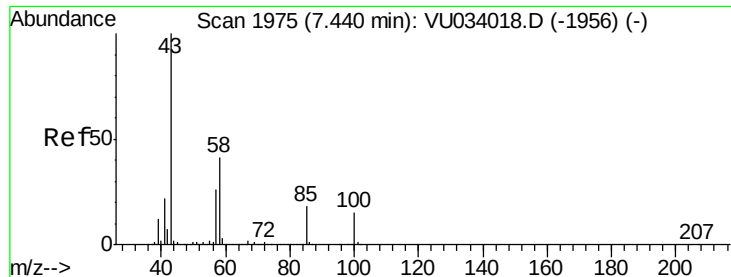
100 64.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034018.D (-1991) (-)

Ion 100.00 (99.70 to 100.70): VU034018.D (-1991) (-)

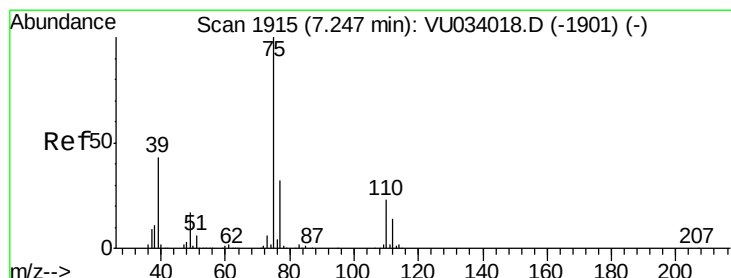
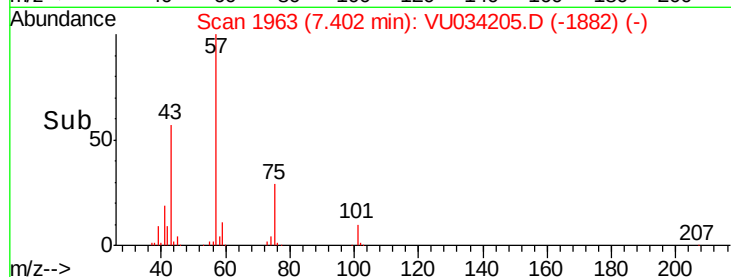
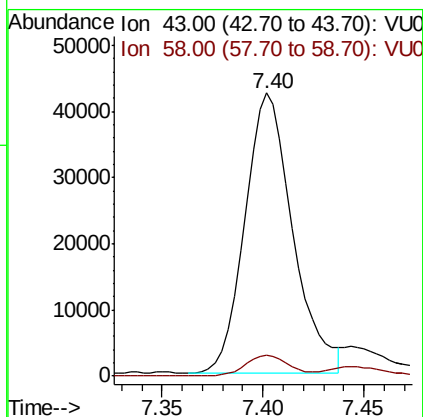
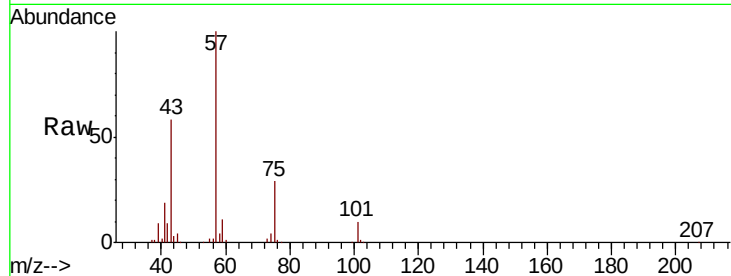




#51
 4-Methyl-2-Pentanone
 Concen: 8.928 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034205.D
 Acq: 02 Sep 2019 16:22

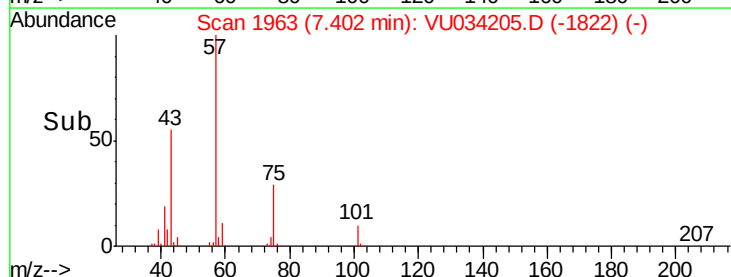
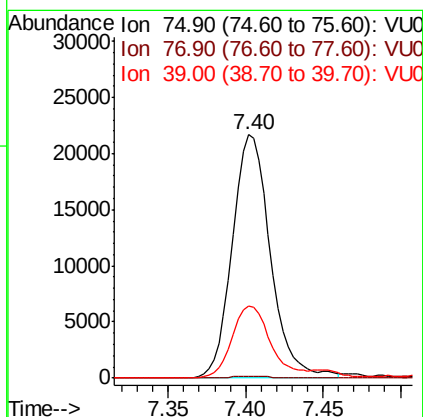
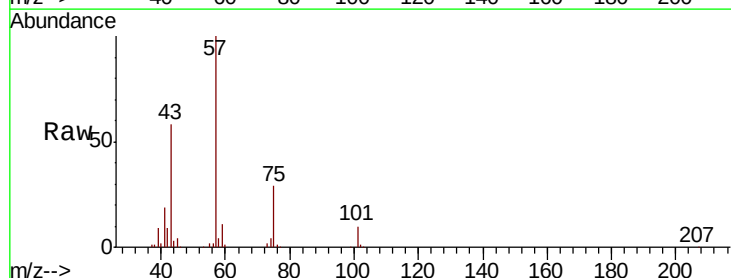
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E1-(0)

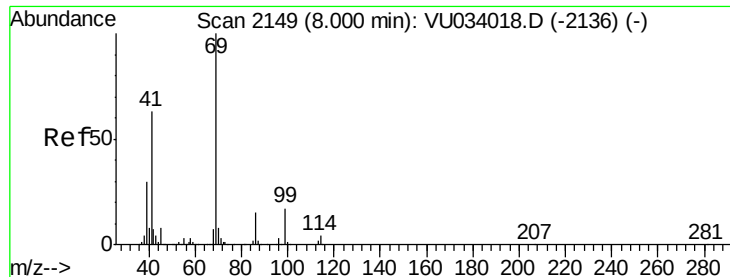
Tgt Ion: 43 Resp: 70167
 Ion Ratio Lower Upper
 43 100
 58 6.9 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.375 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034205.D
 Acq: 02 Sep 2019 16:22

Tgt Ion: 75 Resp: 37186
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 29.4 34.6 51.8#





#56

Ethyl methacrylate

Concen: 1.011 ug/l

RT: 7.92 min Scan# 2125

Delta R.T. -0.08 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E1-(0)

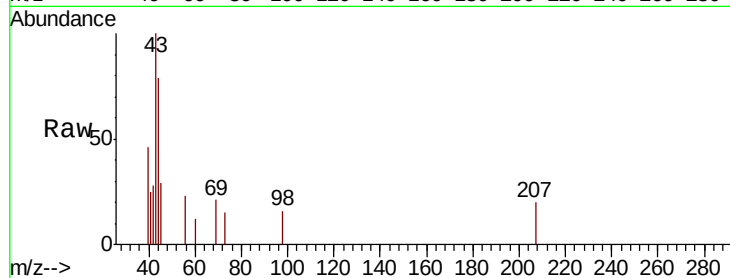
Tgt Ion: 69 Resp: 354

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

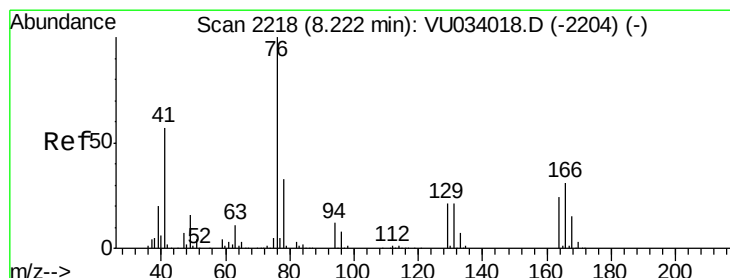
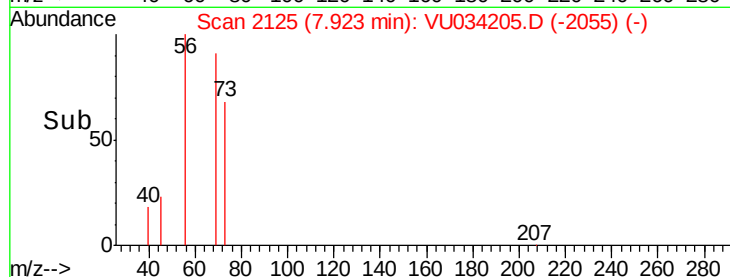
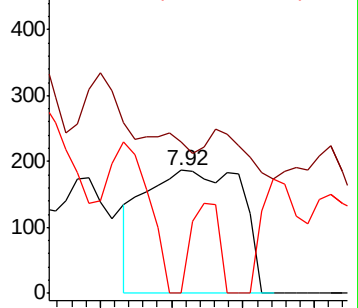
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034205.D (-2125) (-)

Ion 41.00 (40.70 to 41.70): VU034205.D (-2125) (-)

Ion 39.00 (38.70 to 39.70): VU034205.D (-2125) (-)



#57

1,3-Dichloropropane

Concen: 0.704 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034205.D

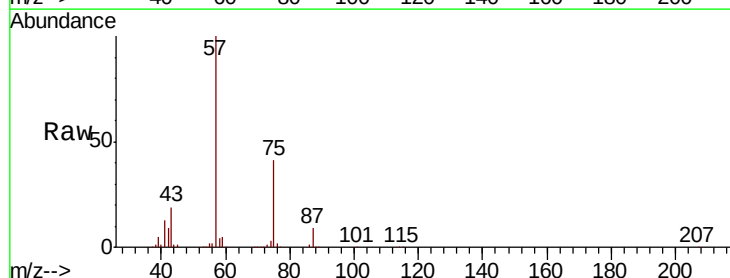
Acq: 02 Sep 2019 16:22

Tgt Ion: 76 Resp: 6292

Ion Ratio Lower Upper

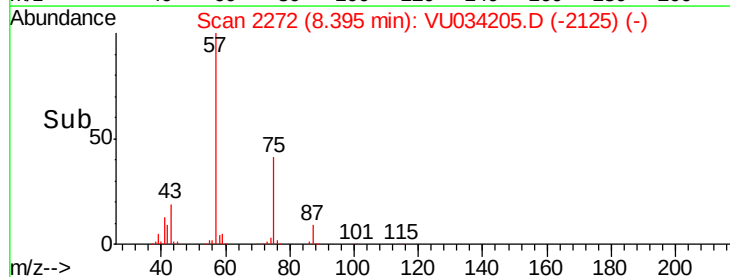
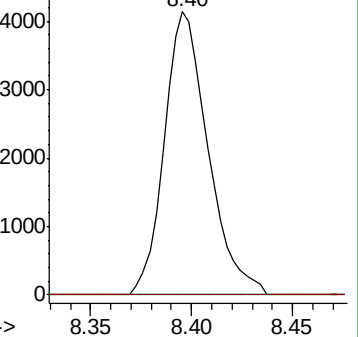
76 100

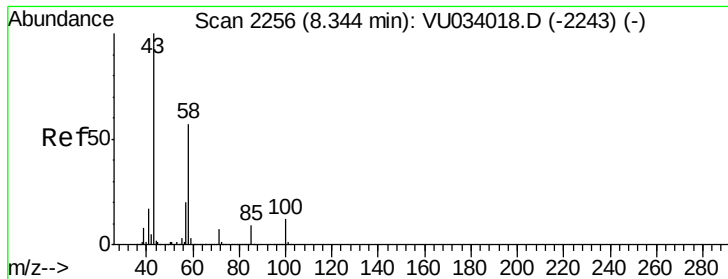
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034205.D (-2272) (-)

Ion 77.90 (77.60 to 78.60): VU034205.D (-2272) (-)

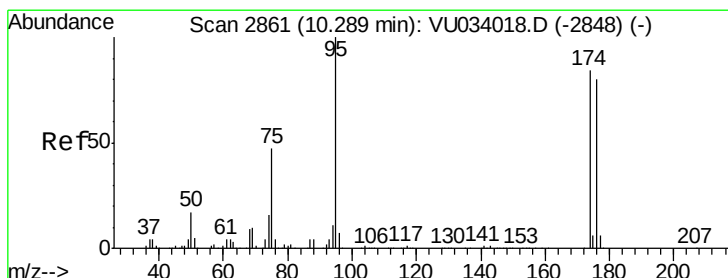
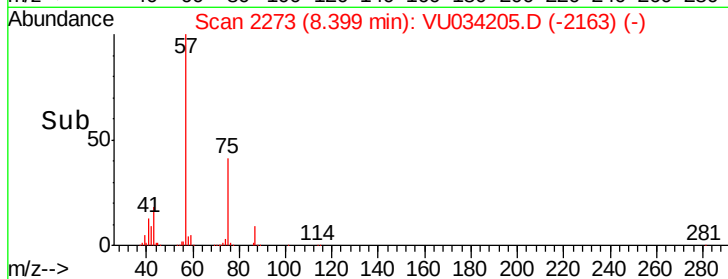
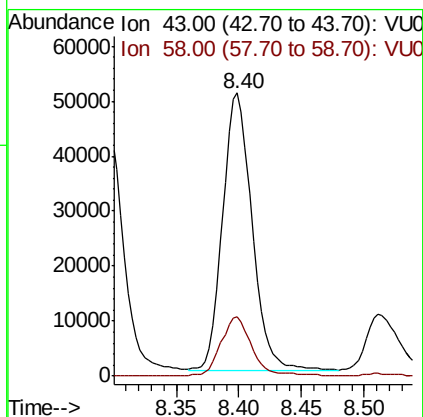
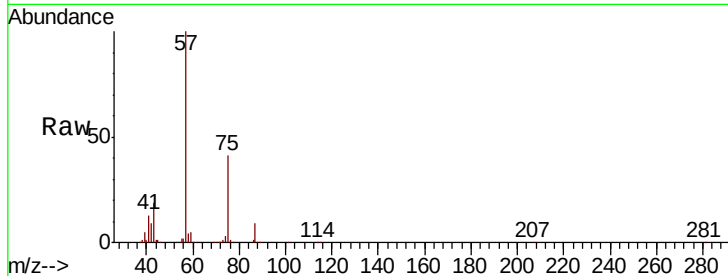




#59
2-Hexanone
Concen: 13.843 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

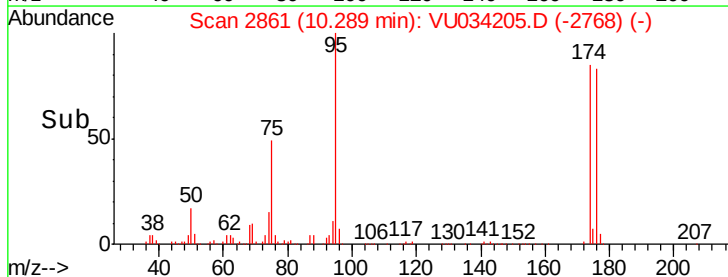
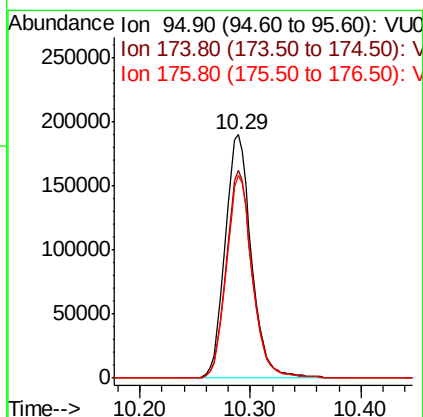
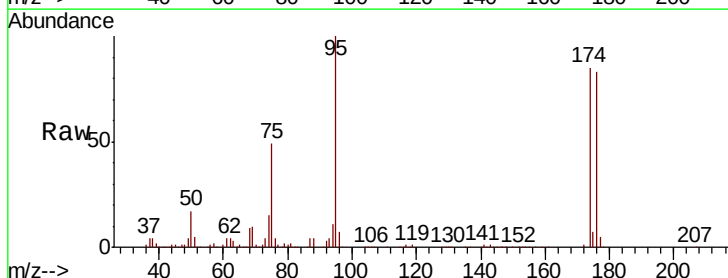
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E1-(0)

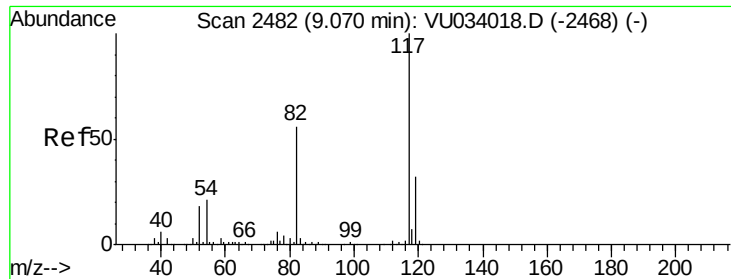
Tgt Ion: 43 Resp: 82128
Ion Ratio Lower Upper
43 100
58 22.5 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 43.972 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

Tgt Ion: 95 Resp: 313700
Ion Ratio Lower Upper
95 100
174 84.6 0.0 168.8
176 82.7 0.0 161.8

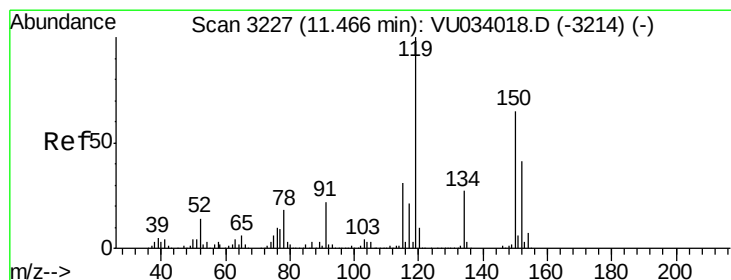
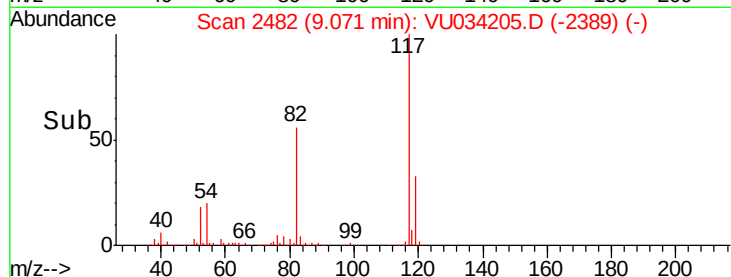
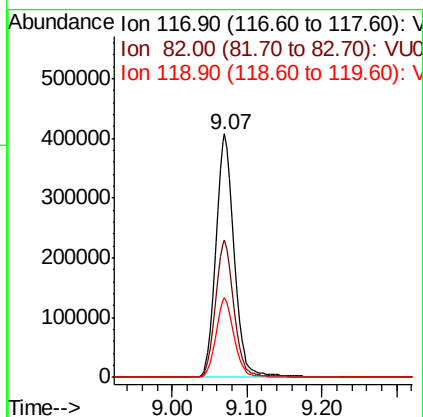
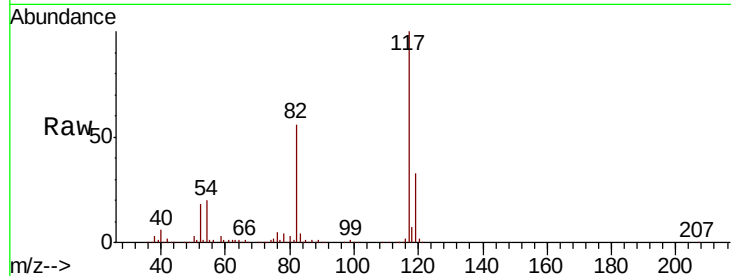




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

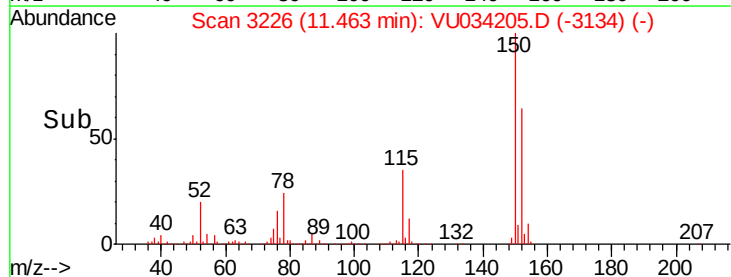
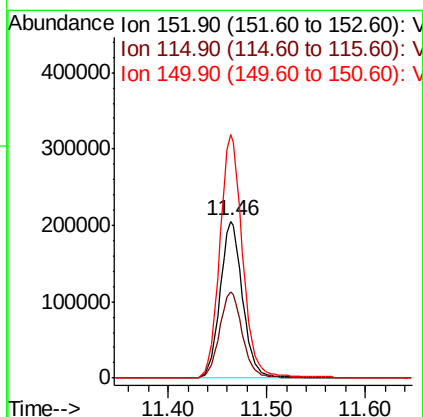
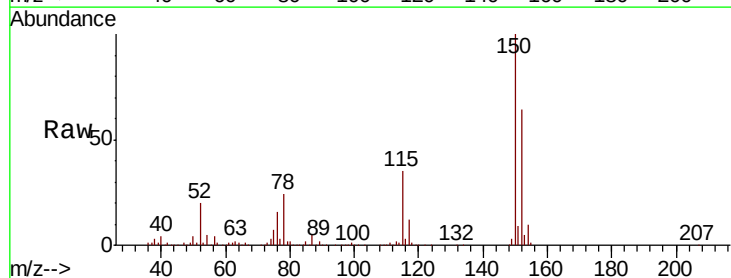
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E1-(0)

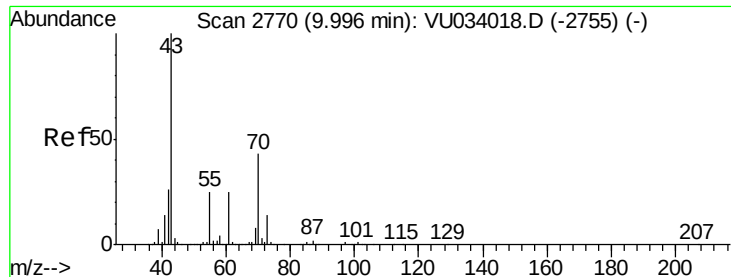
Tgt Ion:117 Resp: 693224
Ion Ratio Lower Upper
117 100
82 56.2 45.1 67.7
119 32.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034205.D
Acq: 02 Sep 2019 16:22

Tgt Ion:152 Resp: 330779
Ion Ratio Lower Upper
152 100
115 55.6 41.1 123.3
150 156.0 0.0 348.8





#74

N-ethyl acetate

Concen: 0.256 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.08 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E1-(0)

Tgt Ion: 43 Resp: 2395

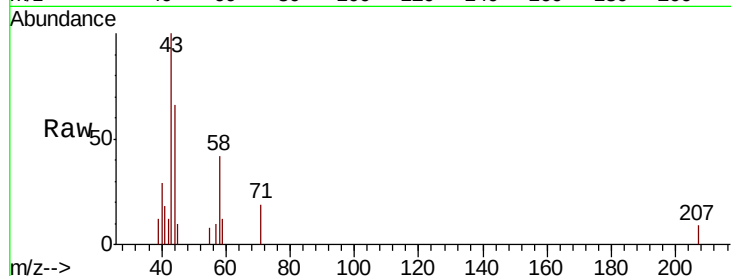
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 5.5 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

2000

1500

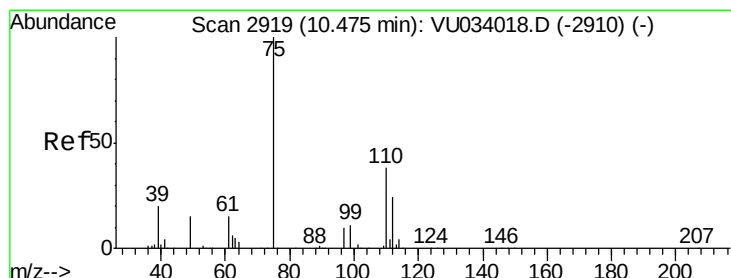
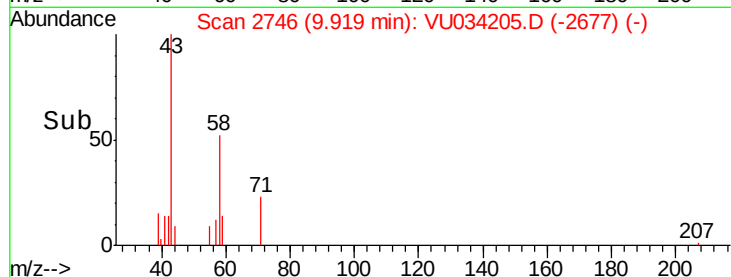
1000

500

0

9.90 9.95

Time-->



#76

1,2,3-Trichloropropane

Concen: 20.327 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034205.D

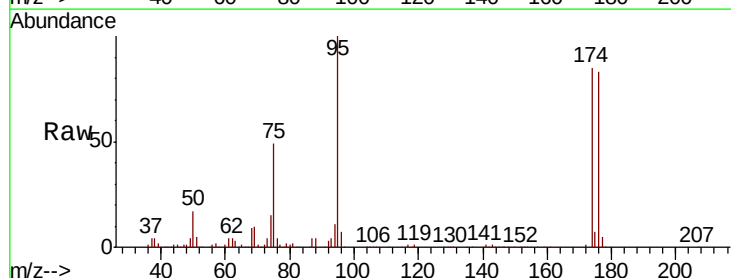
Acq: 02 Sep 2019 16:22

Tgt Ion: 75 Resp: 151540

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

100000

80000

60000

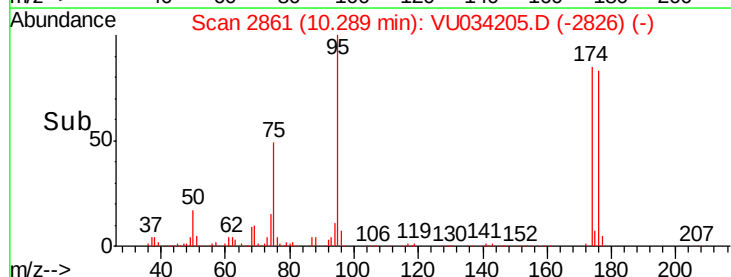
40000

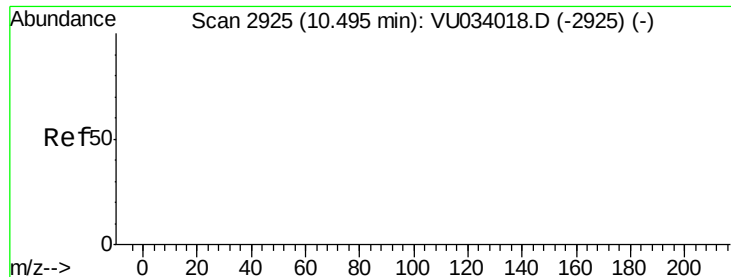
20000

0

10.20 10.30 10.40

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 68.445 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E1-(0)

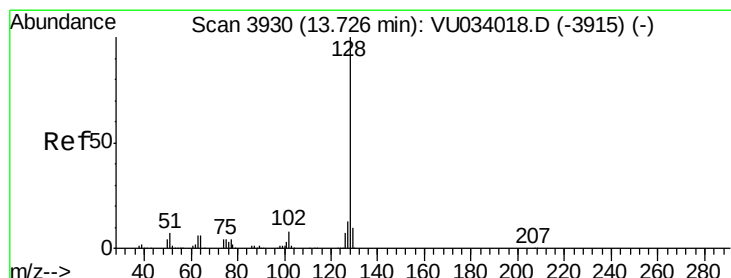
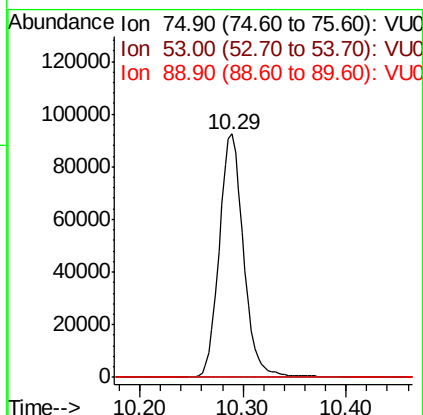
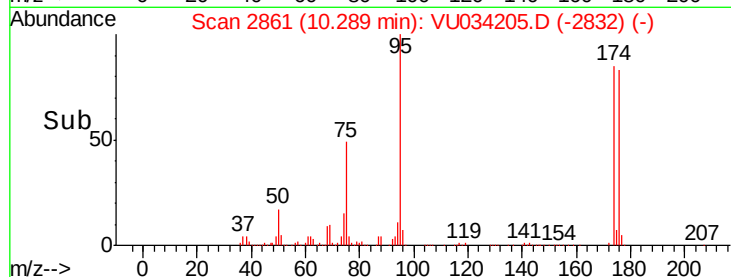
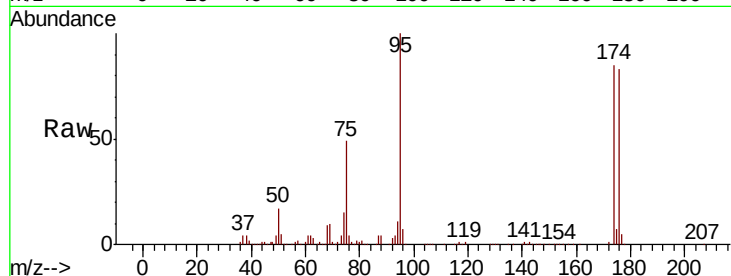
Tgt Ion: 75 Resp: 151540

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.86 min Scan# 3972

Delta R.T. 0.14 min

Lab File: VU034205.D

Acq: 02 Sep 2019 16:22

Tgt Ion: 128 Resp: 48

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

