

Data File : VU034227.D
Acq On : 03 Sep 2019 15:25
Operator : JC/SP
Sample : K4545-14
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(2.25)

Quant Time: Sep 04 04:24:22 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	443534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	712949	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	710156	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	347498	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	274511	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
35) Dibromofluoromethane	4.86	113	232422	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
50) Toluene-d8	7.55	98	931480	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
62) 4-Bromofluorobenzene	10.29	95	327727	45.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.00%	

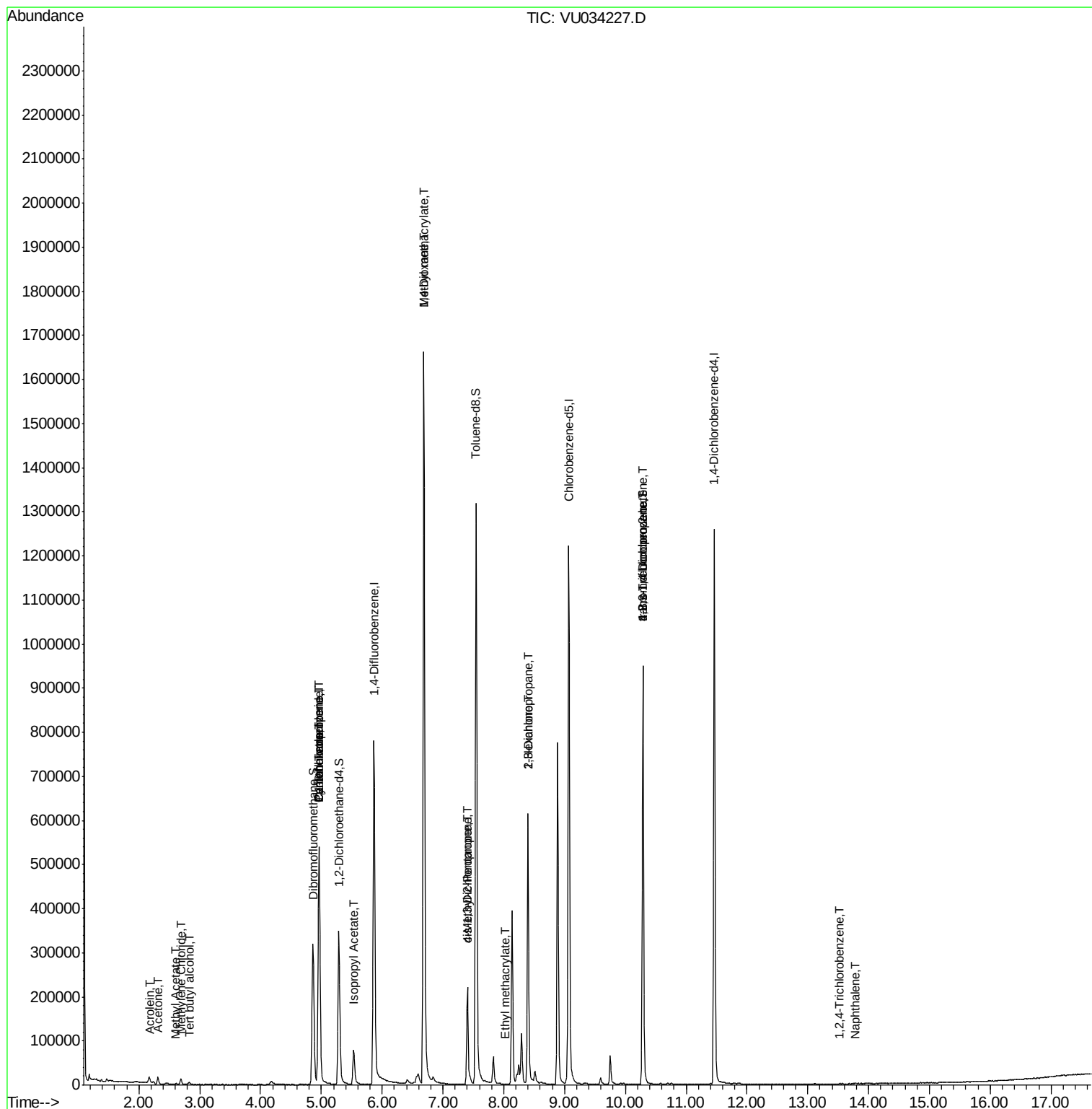
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	528	Below Cal	#	83
5) Bromomethane	1.60	94	46	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	3917	2.989	ug/l #	73
13) Acrolein	2.19	56	198	0.359	ug/l #	1
16) Acetone	2.31	43	16893	5.826	ug/l	96
18) Methyl Acetate	2.61	43	3161	0.422	ug/l	91
20) Methylene Chloride	2.69	84	5773	1.052	ug/l	96
31) Cyclohexane	4.96	56	7980	0.940	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31660	4.695	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40569	6.232	ug/l #	16
43) Isopropyl Acetate	5.53	43	94295	8.208	ug/l	100
48) Methyl methacrylate	6.69	41	143701	25.921	ug/l #	39
49) 1,4-Dioxane	6.68	88	97	0.698	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	79950	10.077	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	40518	4.721	ug/l #	61
56) Ethyl methacrylate	8.02	69	261	1.001	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6638	0.735	ug/l #	42
59) 2-Hexanone	8.40	43	85119	14.211	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	154078	19.673	ug/l #	38
81) trans-1,4-Dichloro-2-buten	10.29	75	154078	66.243	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	368	1.161	ug/l #	22
95) Naphthalene	13.77	128	2042	1.881	ug/l #	81

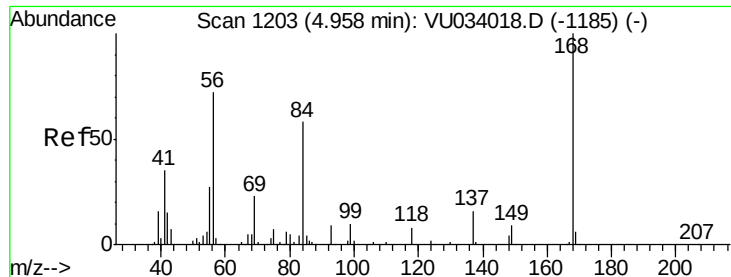
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

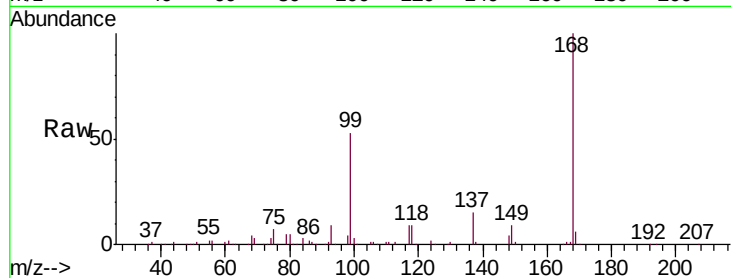
T16-17-E4-(2.25)

Tgt Ion:168 Resp: 443534

Ion Ratio Lower Upper

168 100

99 53.2 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

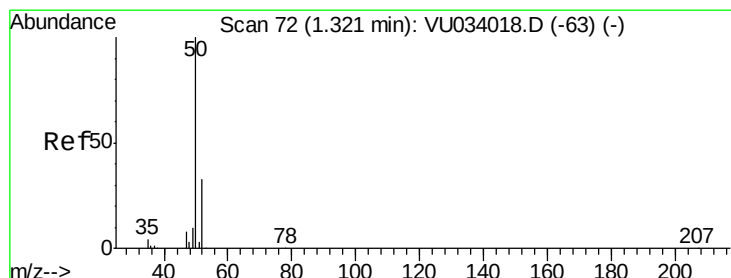
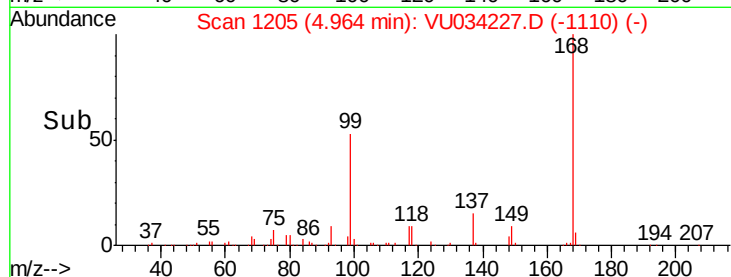
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034227.D

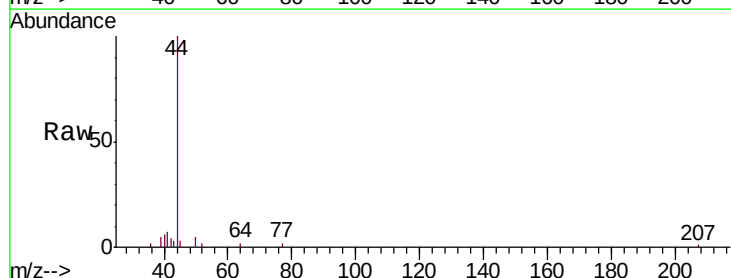
Acq: 03 Sep 2019 15:25

Tgt Ion: 50 Resp: 528

Ion Ratio Lower Upper

50 100

52 42.6 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

400

300

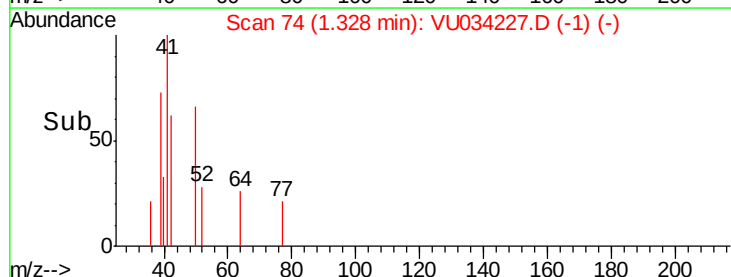
200

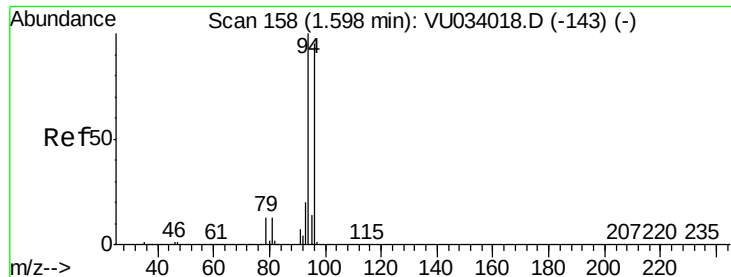
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

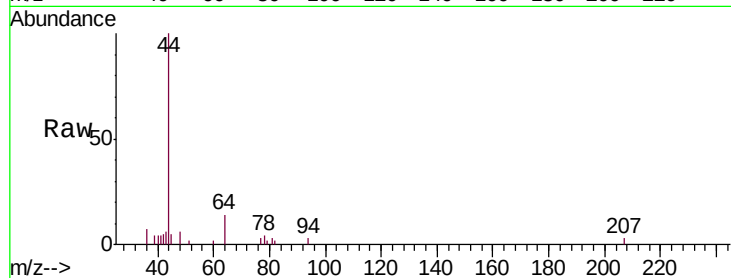
T16-17-E4-(2.25)

Tgt Ion: 94 Resp: 46

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

150

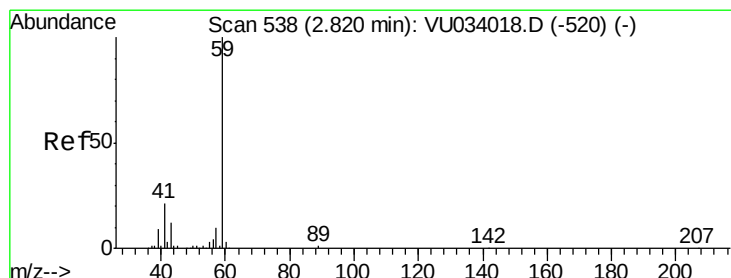
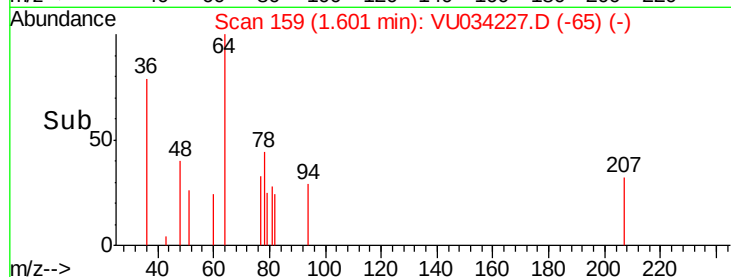
100

50

0

1.59 1.60 1.60 1.61

Time-->



#11

Tert butyl alcohol

Concen: 2.989 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034227.D

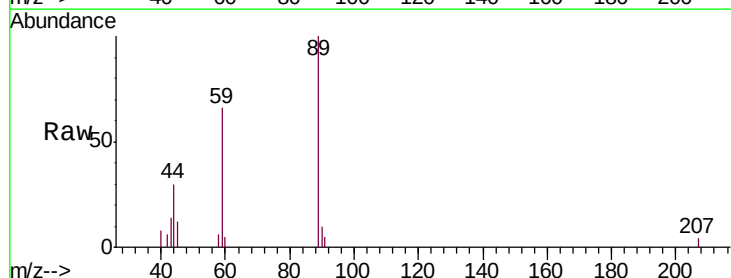
Acq: 03 Sep 2019 15:25

Tgt Ion: 59 Resp: 3917

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

2000

1500

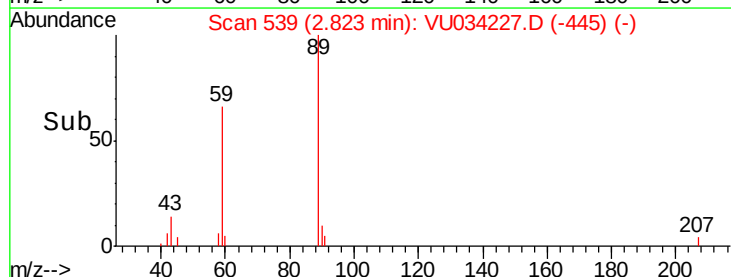
1000

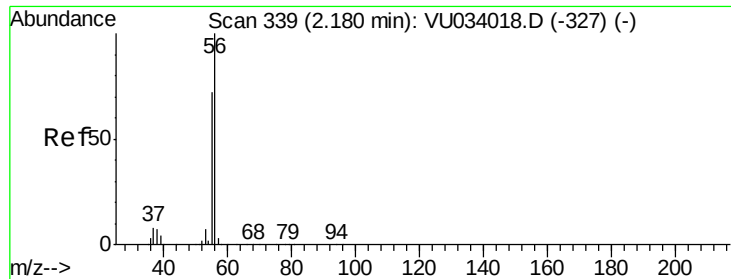
500

0

2.75 2.80 2.85

Time-->





#13

Acrolein

Concen: 0.359 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

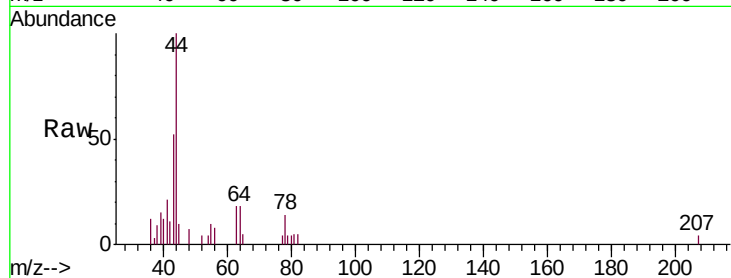
T16-17-E4-(2.25)

Tgt Ion: 56 Resp: 198

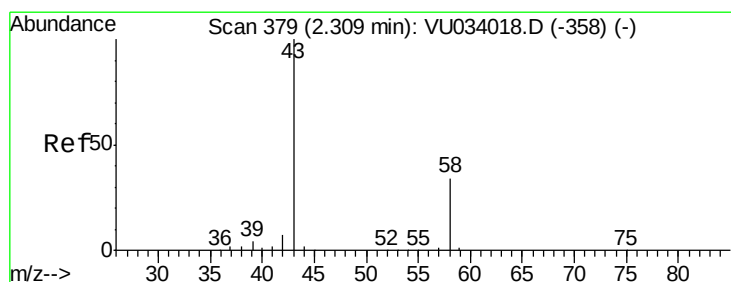
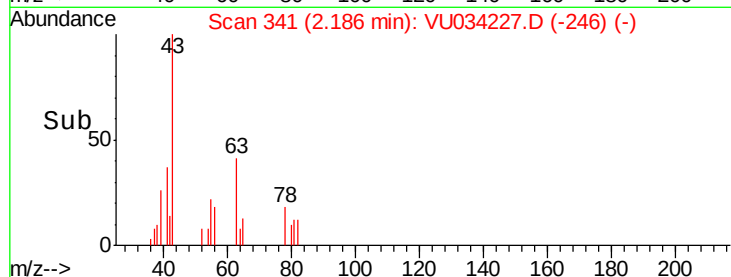
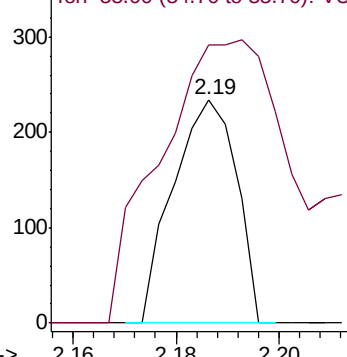
Ion Ratio Lower Upper

56 100

55 296.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034227.D (-341) (-)



#16

Acetone

Concen: 5.826 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034227.D

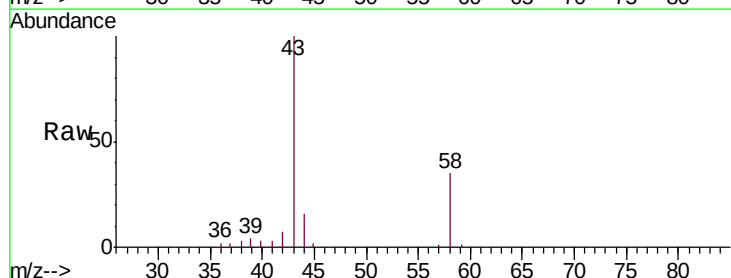
Acq: 03 Sep 2019 15:25

Tgt Ion: 43 Resp: 16893

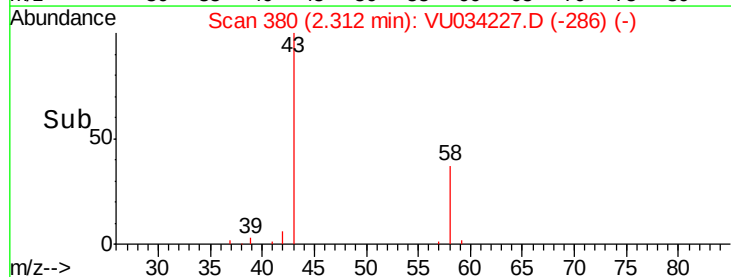
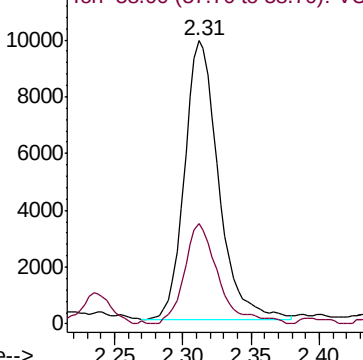
Ion Ratio Lower Upper

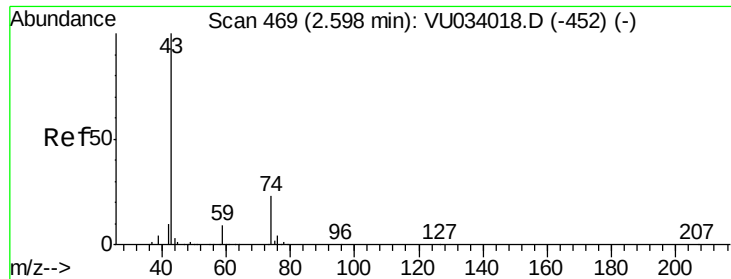
43 100

58 36.0 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034227.D (-380) (-)

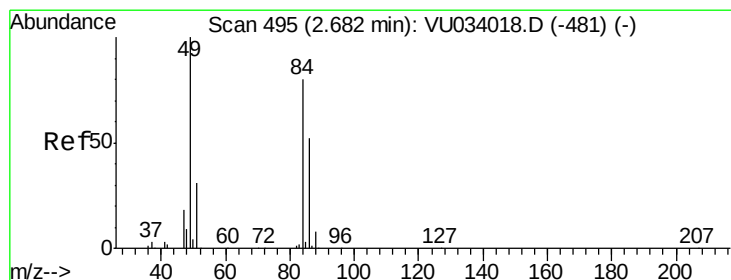
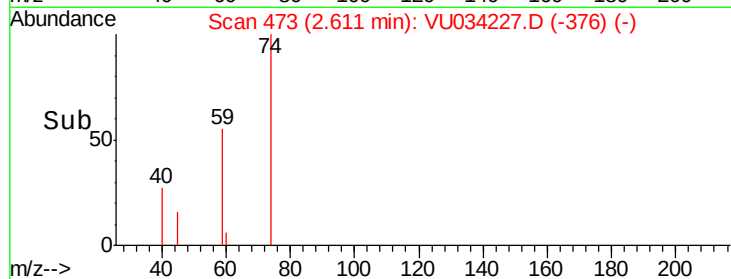
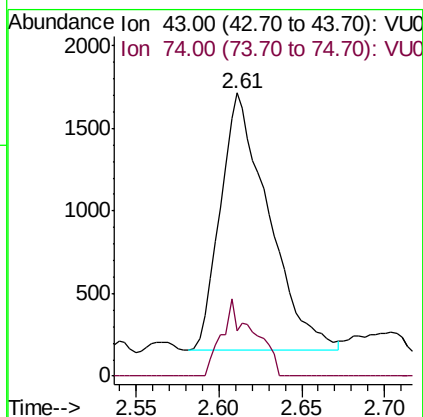
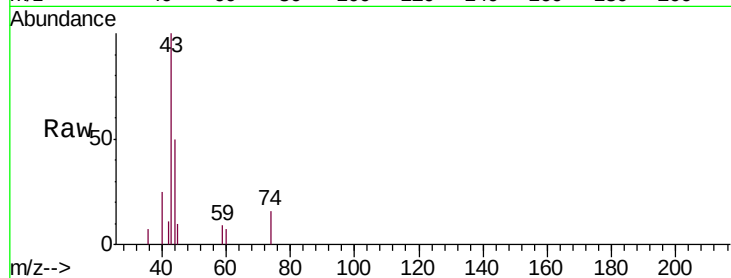




#18
Methyl Acetate
Concen: 0.422 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

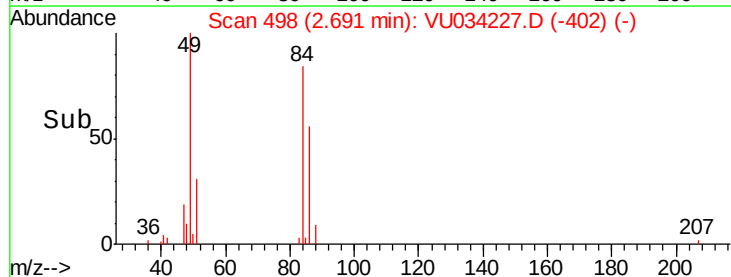
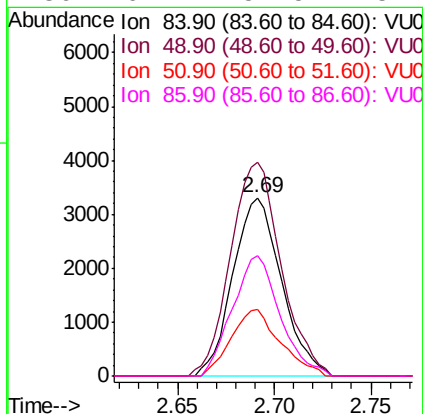
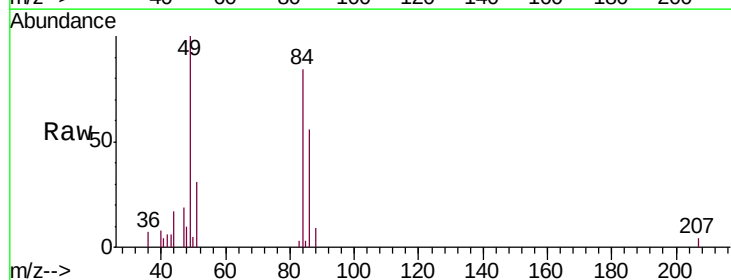
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(2.25)

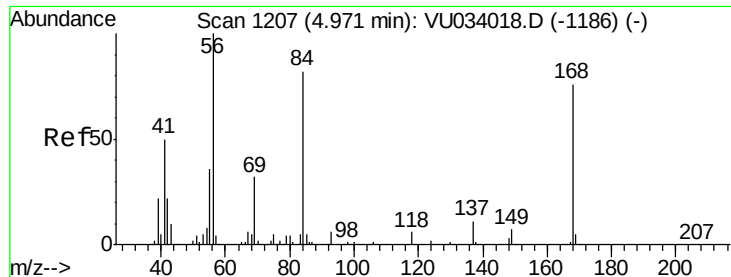
Tgt Ion: 43 Resp: 3161
Ion Ratio Lower Upper
43 100
74 19.7 19.2 28.8



#20
Methylene Chloride
Concen: 1.052 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

Tgt Ion: 84 Resp: 5773
Ion Ratio Lower Upper
84 100
49 119.6 100.2 150.4
51 37.4 30.8 46.2
86 67.2 52.5 78.7

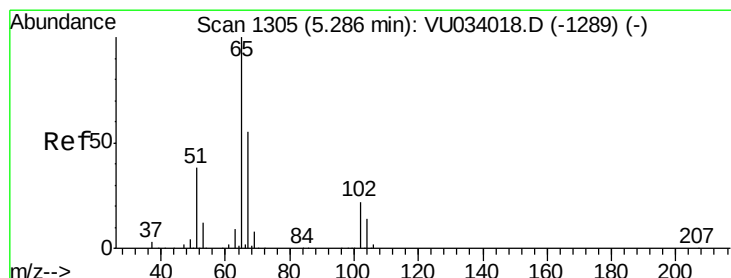
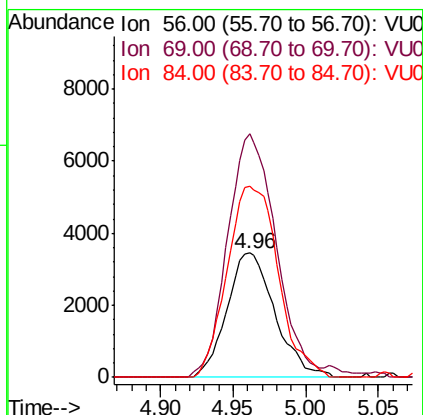
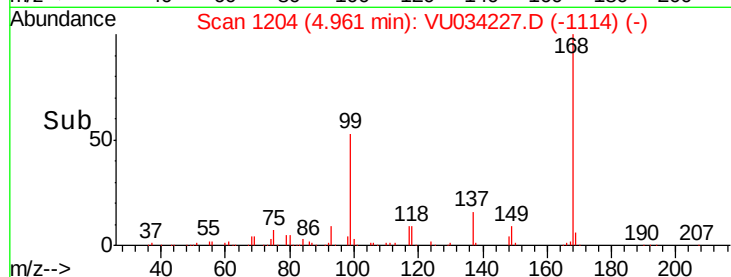
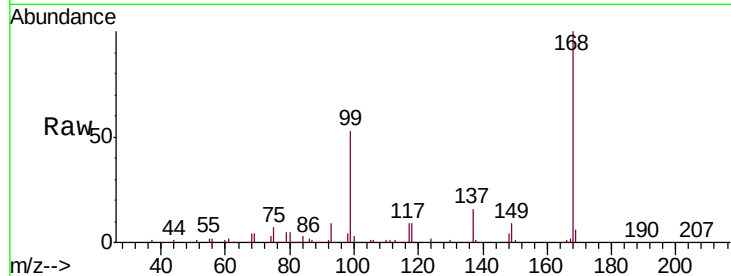




#31
Cyclohexane
Concen: 0.940 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

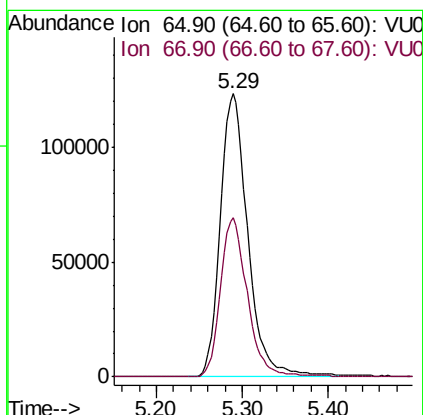
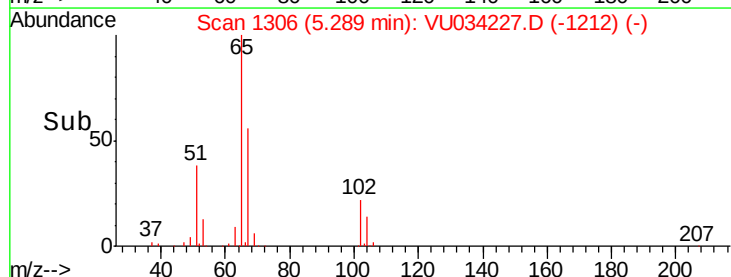
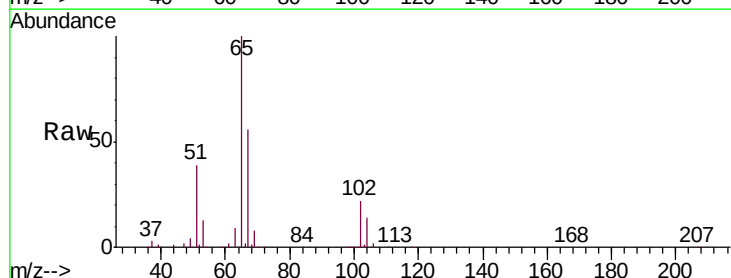
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(2.25)

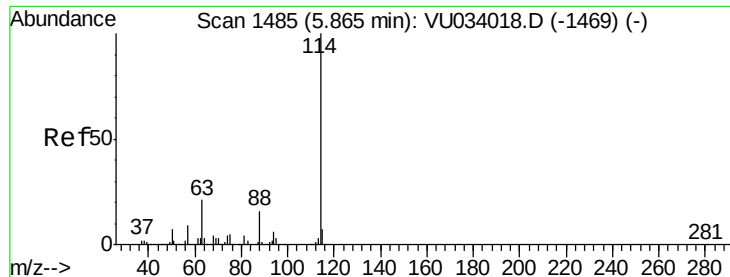
Tgt Ion: 56 Resp: 7980
Ion Ratio Lower Upper
56 100
69 196.0 25.4 38.0#
84 154.4 65.8 98.8#



#33
1,2-Dichloroethane-d4
Concen: 48.302 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

Tgt Ion: 65 Resp: 274511
Ion Ratio Lower Upper
65 100
67 55.2 0.0 110.6

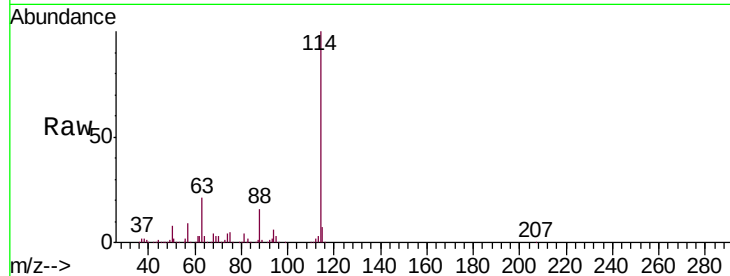




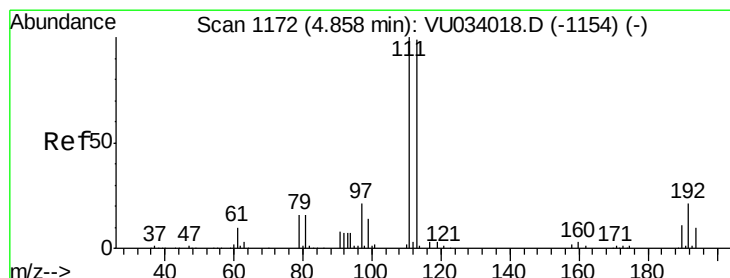
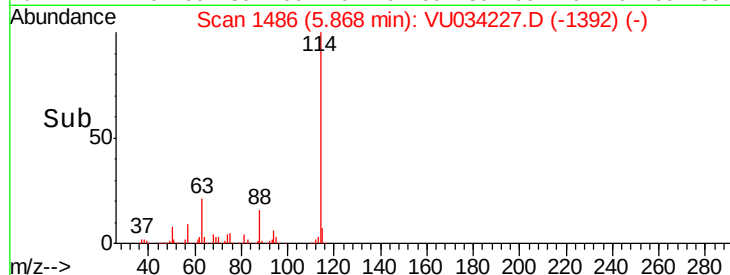
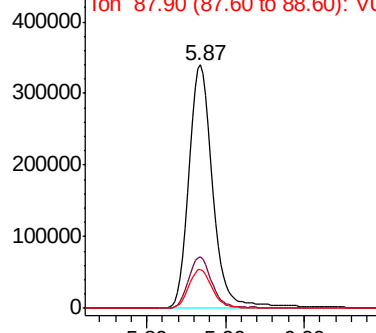
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034227.D
 Acq: 03 Sep 2019 15:25

Instrument :
 MSVOA_U
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 T16-17-E4-(2.25)

Tgt Ion:114 Resp: 712949
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.0
 88 16.0 0.0 32.0

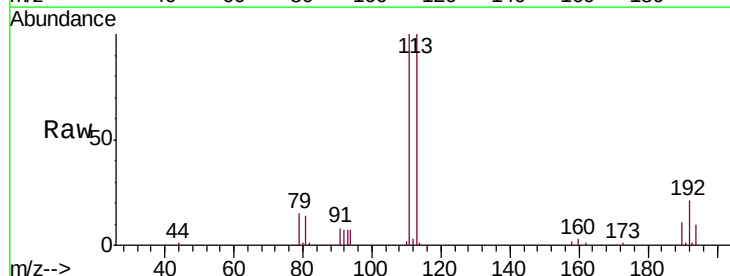


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

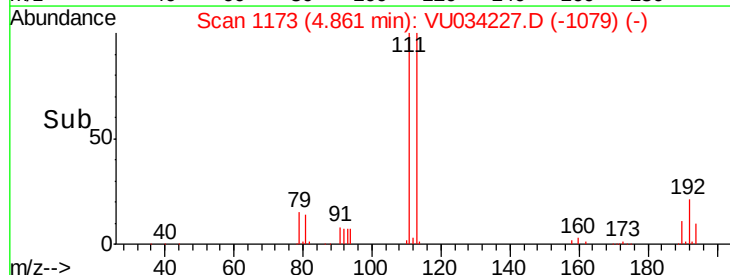
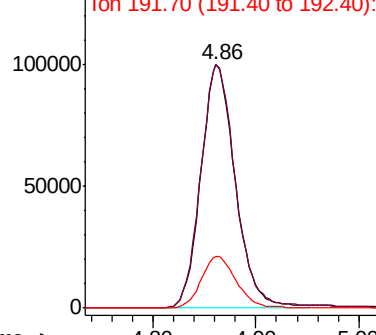


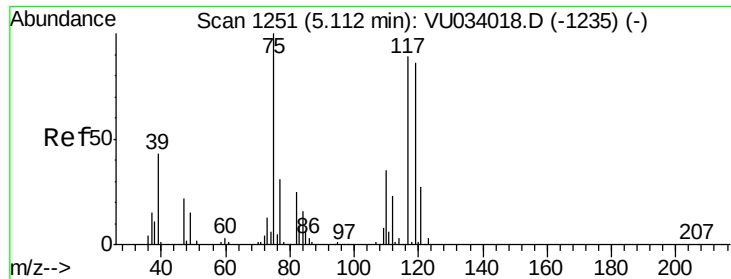
#35
 Dibromofluoromethane
 Concen: 47.002 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034227.D
 Acq: 03 Sep 2019 15:25

Tgt Ion:113 Resp: 232422
 Ion Ratio Lower Upper
 113 100
 111 102.2 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: 4.695 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E4-(2.25)

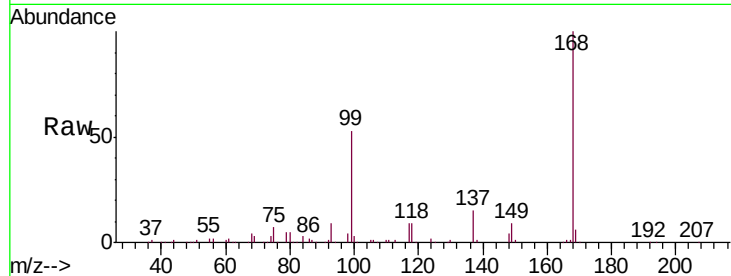
Tgt Ion: 75 Resp: 31660

Ion Ratio Lower Upper

75 100

110 8.3 17.8 53.5#

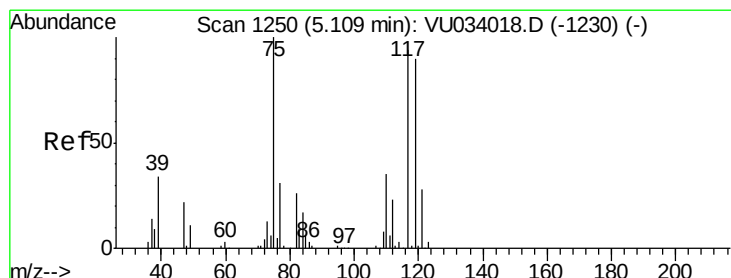
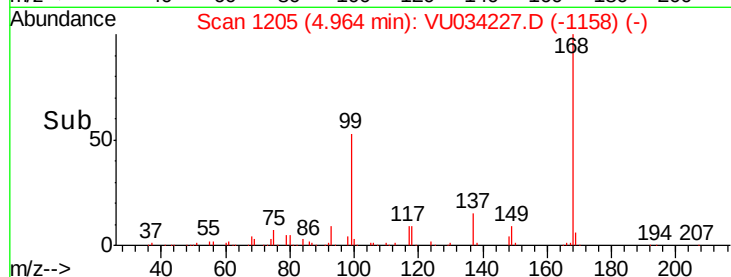
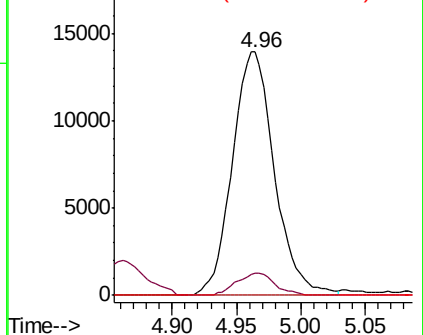
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-1235) (-)

Ion 109.90 (109.60 to 110.60): VU034018.D (-1235) (-)

Ion 76.90 (76.60 to 77.60): VU034018.D (-1235) (-)



#38

Carbon Tetrachloride

Concen: 6.232 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

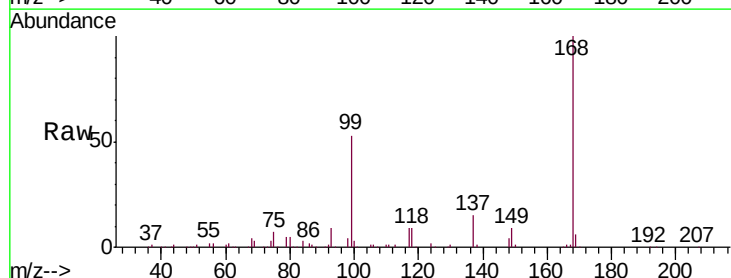
Tgt Ion: 117 Resp: 40569

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

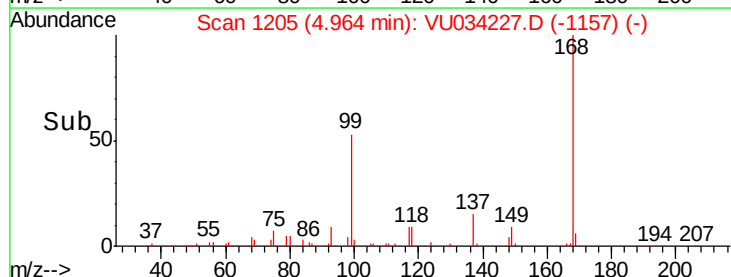
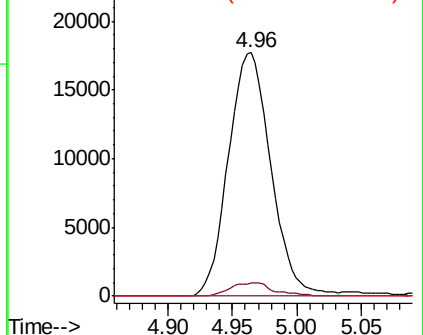
121 0.0 23.9 35.9#

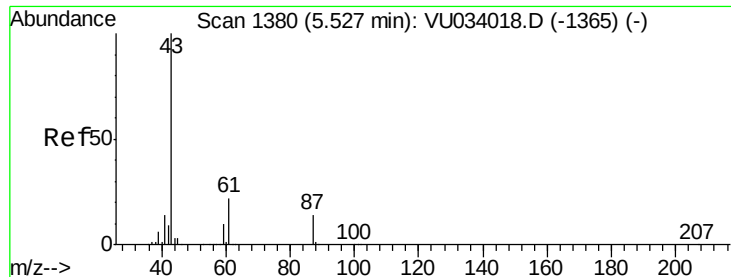


Abundance Ion 116.80 (116.50 to 117.50): VU034018.D (-1230) (-)

Ion 118.80 (118.50 to 119.50): VU034018.D (-1230) (-)

Ion 120.80 (120.50 to 121.50): VU034018.D (-1230) (-)





#43

Isopropyl Acetate

Concen: 8.208 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E4-(2.25)

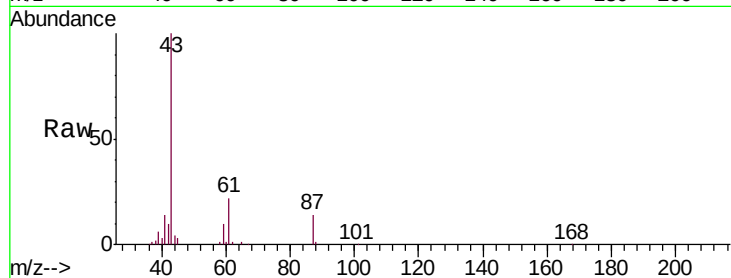
Tgt Ion: 43 Resp: 94295

Ion Ratio Lower Upper

43 100

61 21.3 17.2 25.8

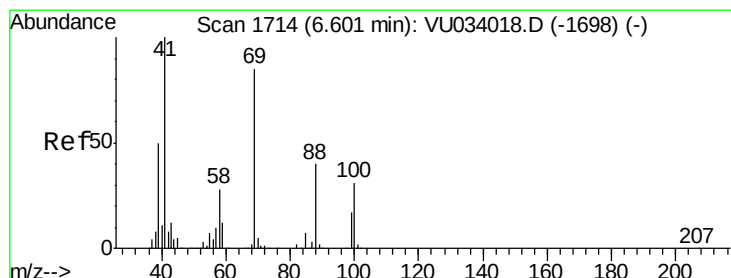
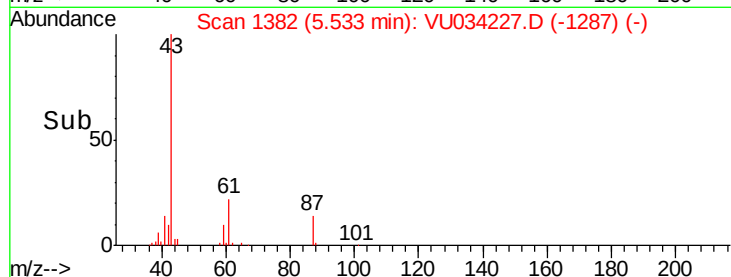
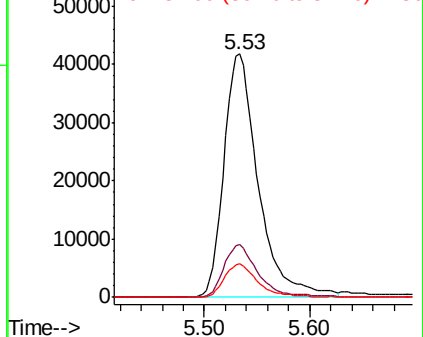
87 13.4 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034227.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034227.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034227.D (-1382) (-)



#48

Methyl methacrylate

Concen: 25.921 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

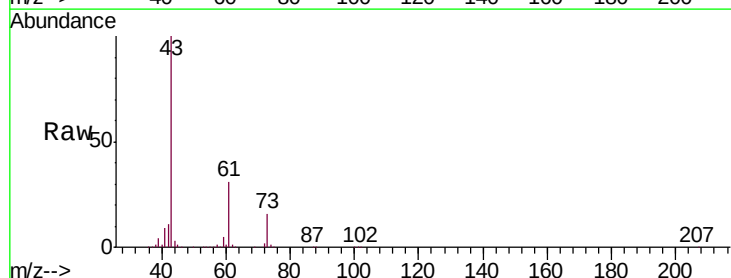
Tgt Ion: 41 Resp: 143701

Ion Ratio Lower Upper

41 100

69 0.2 69.5 104.3#

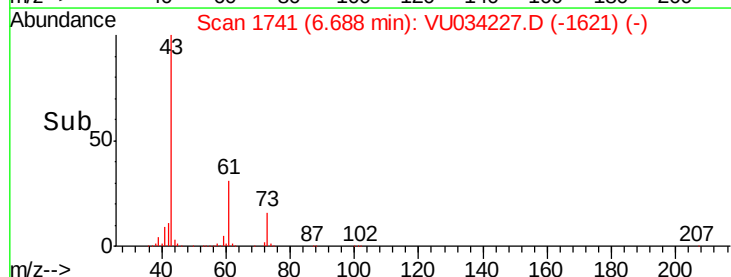
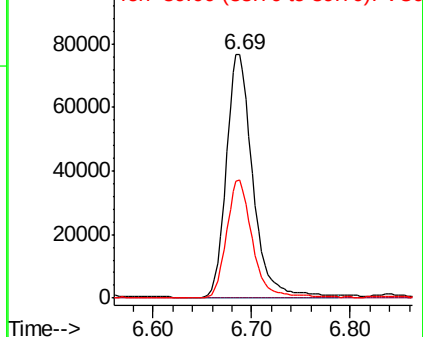
39 47.0 40.3 60.5

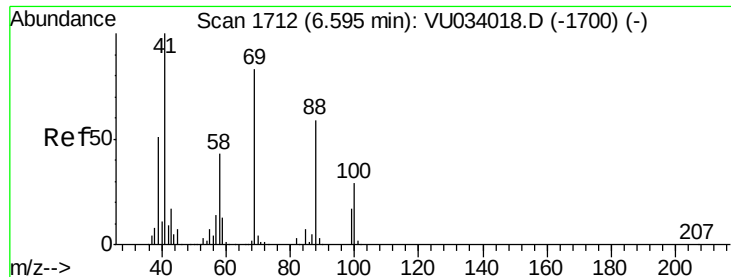


Abundance Ion 41.00 (40.70 to 41.70): VU034227.D (-1741) (-)

Ion 69.00 (68.70 to 69.70): VU034227.D (-1741) (-)

Ion 39.00 (38.70 to 39.70): VU034227.D (-1741) (-)





#49

1,4-Dioxane

Concen: 0.698 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.09 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E4-(2.25)

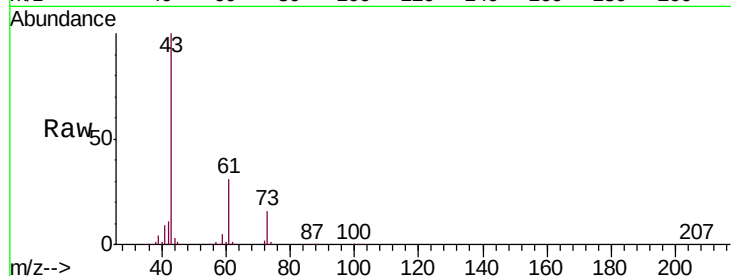
Tgt Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 1676502.1 24.8 37.2#

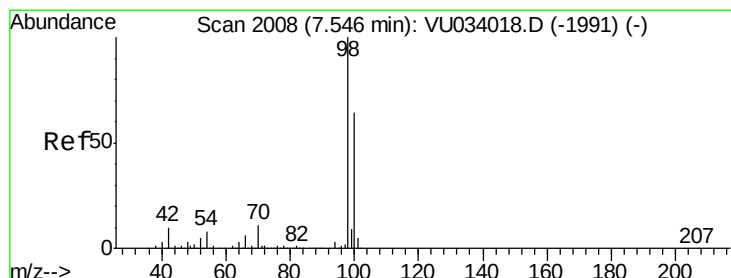
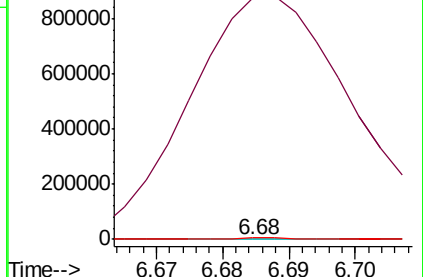
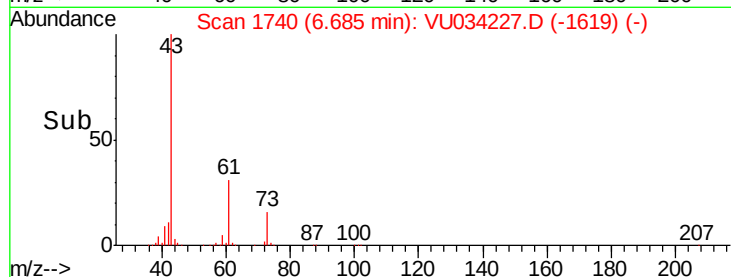
58 8368.0 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034227.D (-1619) (-)

Ion 43.00 (42.70 to 43.70): VU034227.D (-1619) (-)

Ion 58.00 (57.70 to 58.70): VU034227.D (-1619) (-)



#50

Toluene-d8

Concen: 50.307 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034227.D

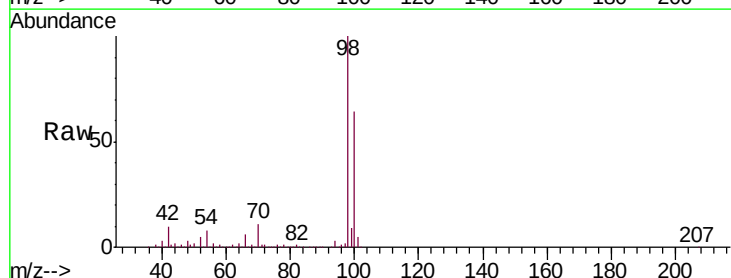
Acq: 03 Sep 2019 15:25

Tgt Ion: 98 Resp: 931480

Ion Ratio Lower Upper

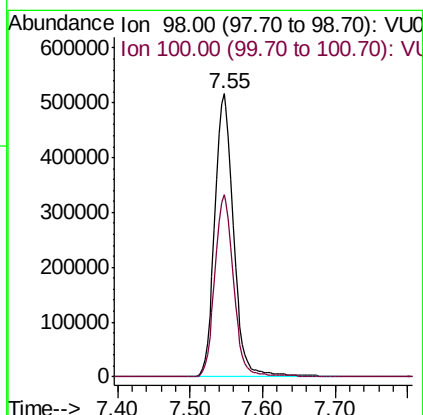
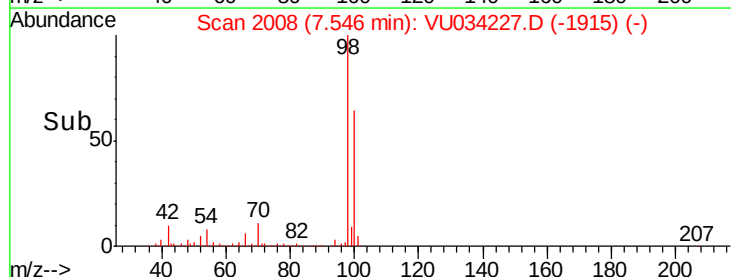
98 100

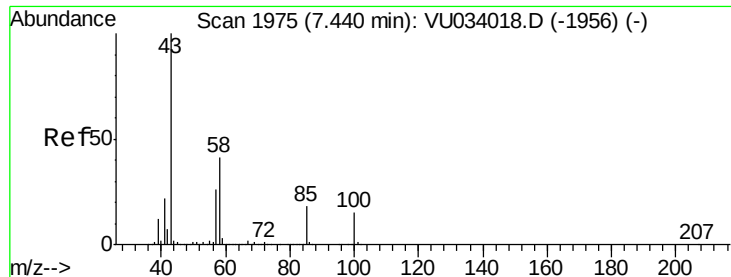
100 64.5 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034227.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034227.D (-1915) (-)





#51

4-Methyl-2-Pentanone

Concen: 10.077 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

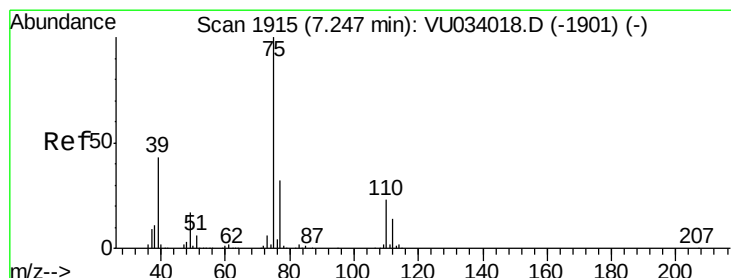
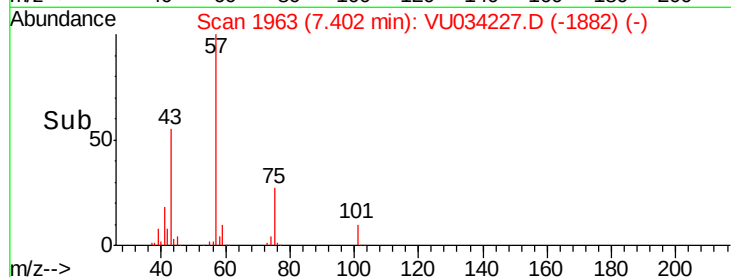
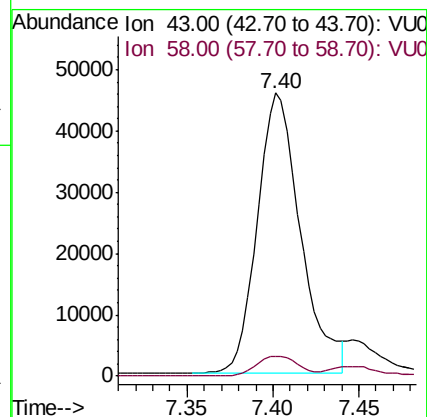
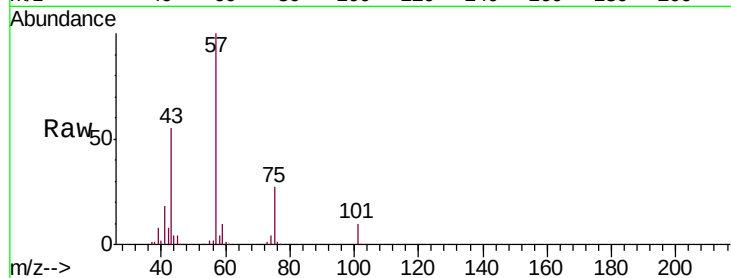
T16-17-E4-(2.25)

Tgt Ion: 43 Resp: 79950

Ion Ratio Lower Upper

43 100

58 7.2 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 4.721 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

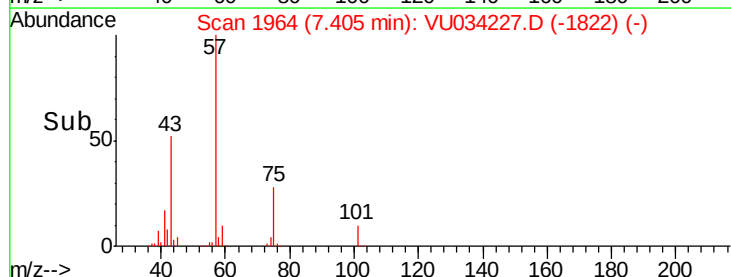
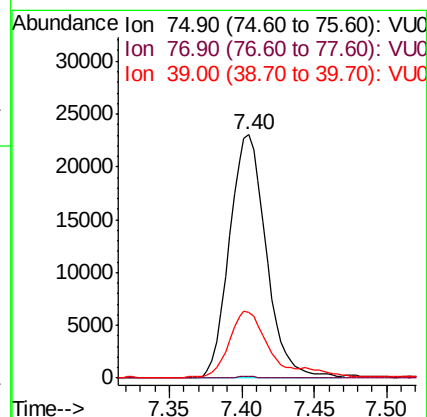
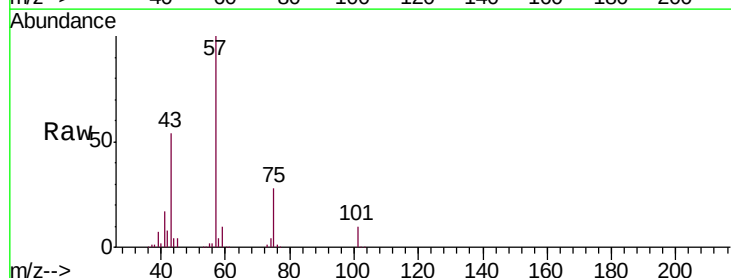
Tgt Ion: 75 Resp: 40518

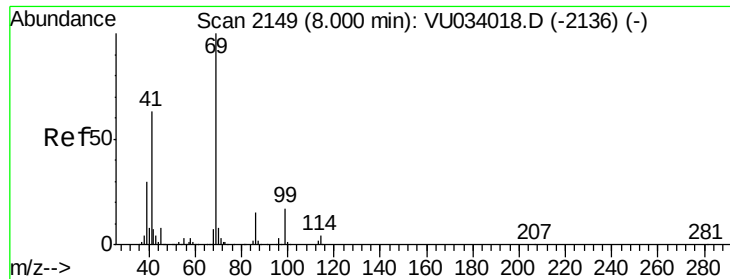
Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

39 26.5 34.6 51.8#

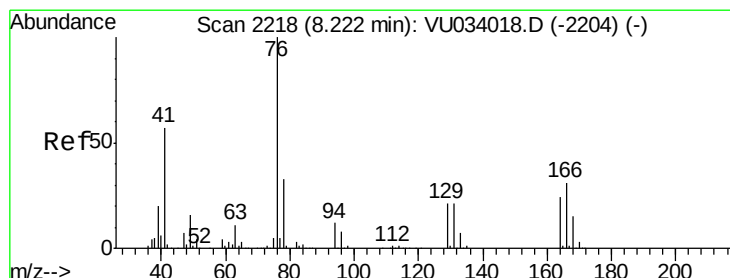
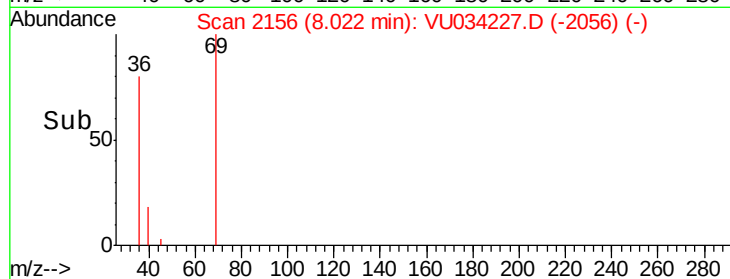
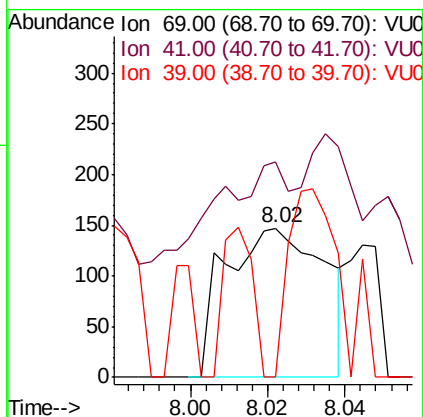
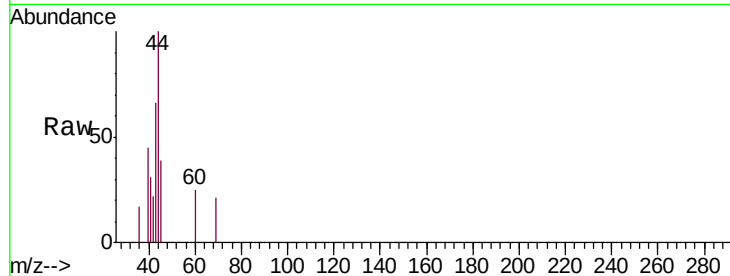




#56
Ethyl methacrylate
Concen: 1.001 ug/l
RT: 8.02 min Scan# 2156
Delta R.T. 0.02 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

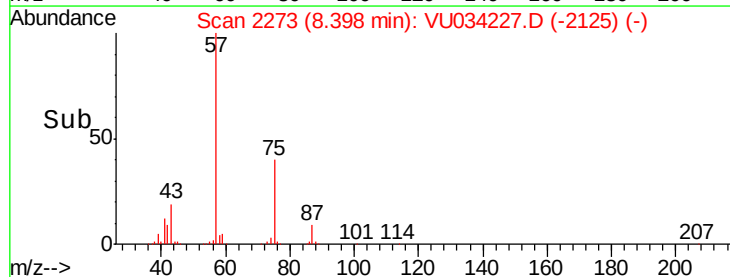
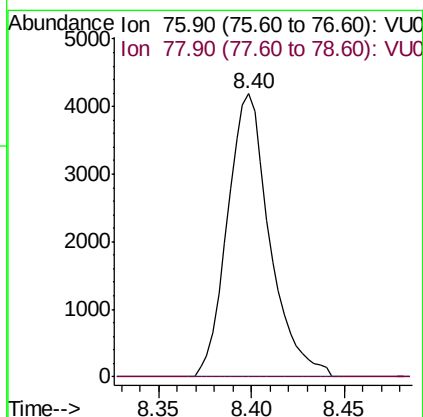
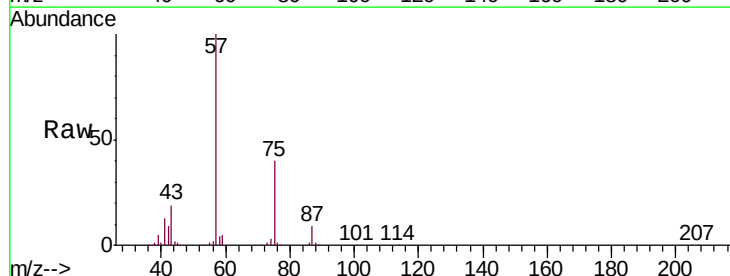
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(2.25)

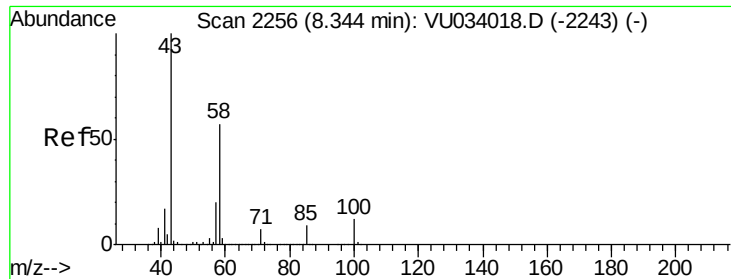
Tgt Ion: 69 Resp: 261
Ion Ratio Lower Upper
69 100
41 0.0 50.7 76.1#
39 0.0 24.2 36.2#



#57
1,3-Dichloropropane
Concen: 0.735 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.18 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

Tgt Ion: 76 Resp: 6638
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

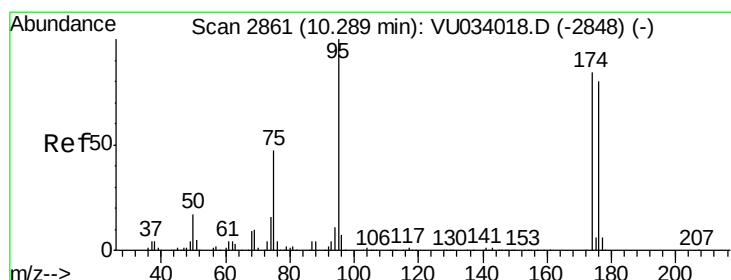
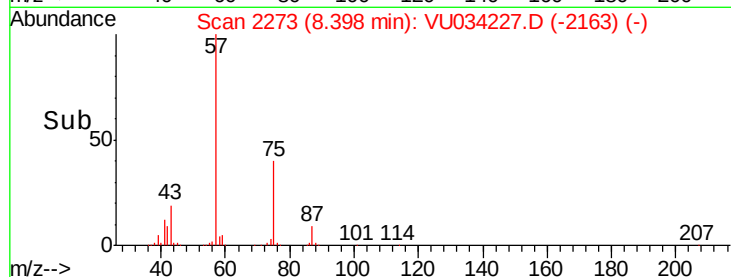
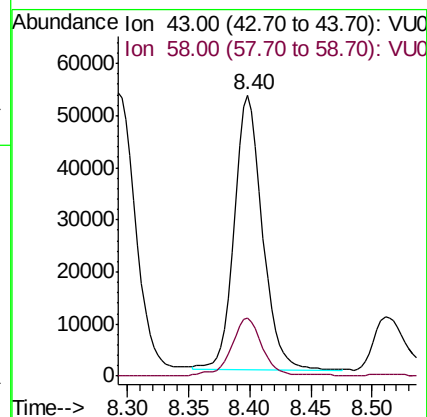
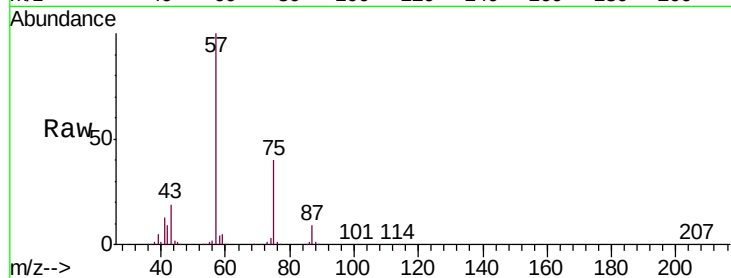




#59
2-Hexanone
Concen: 14.211 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

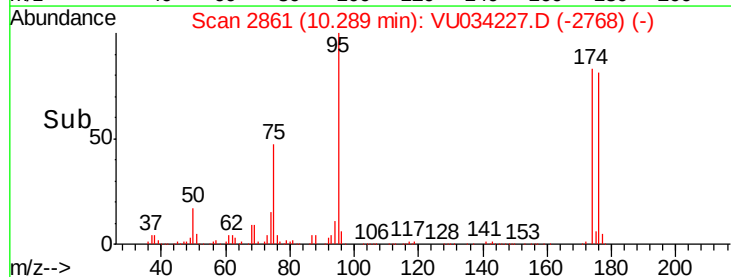
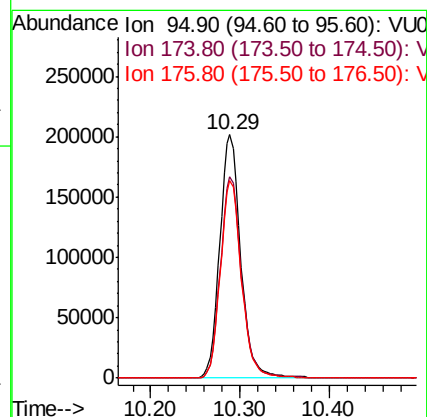
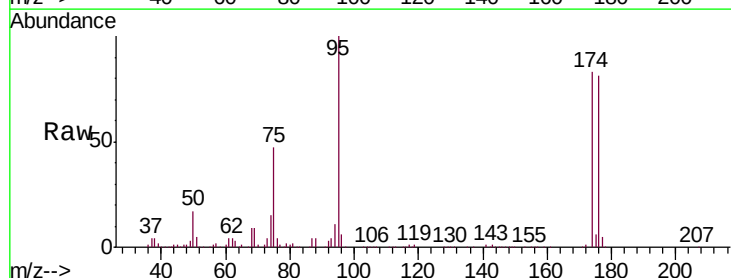
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(2.25)

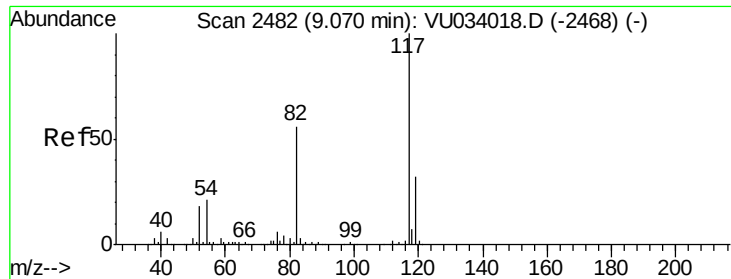
Tgt Ion: 43 Resp: 85119
Ion Ratio Lower Upper
43 100
58 23.2 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.502 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

Tgt Ion: 95 Resp: 327727
Ion Ratio Lower Upper
95 100
174 84.2 0.0 168.8
176 81.3 0.0 161.8

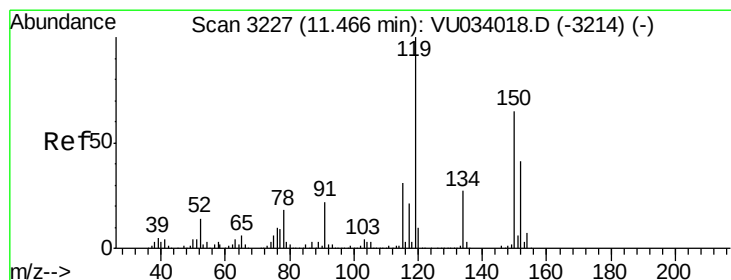
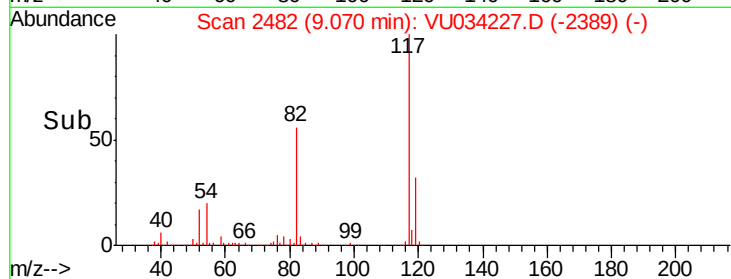
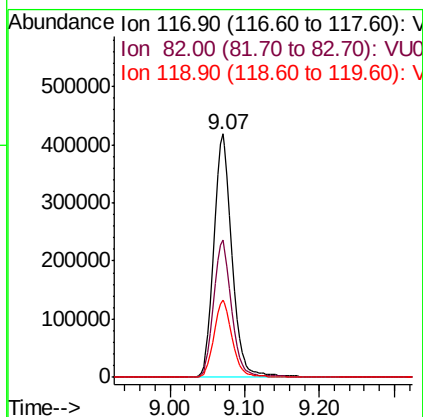
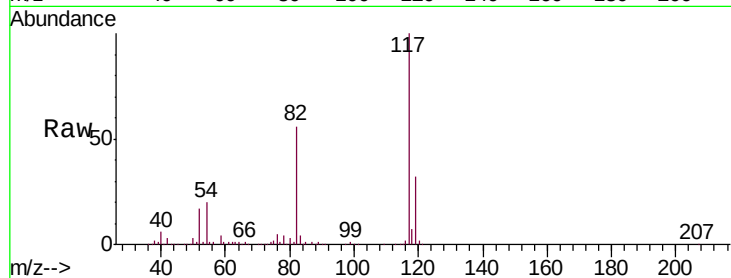




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

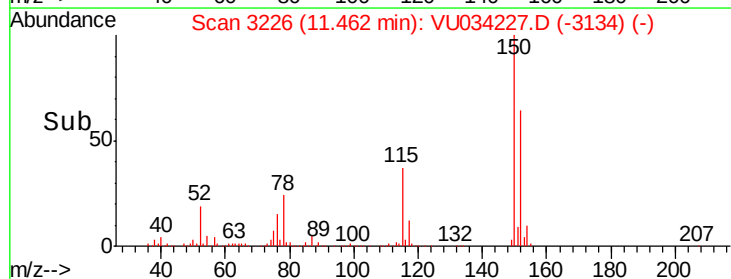
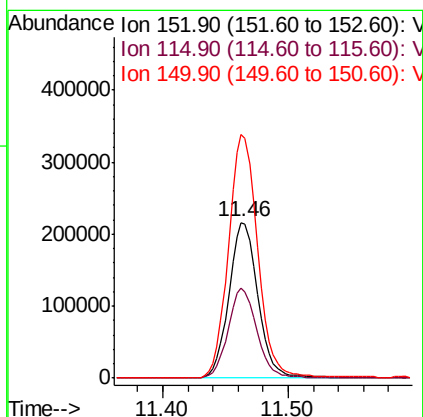
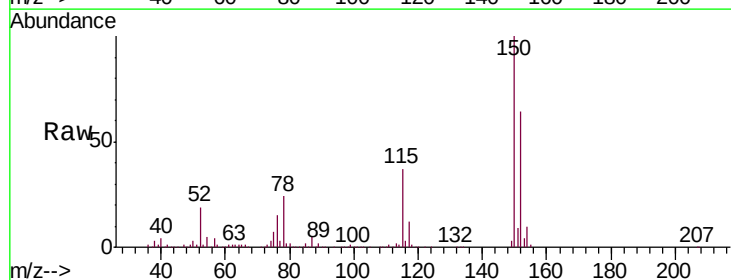
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E4-(2.25)

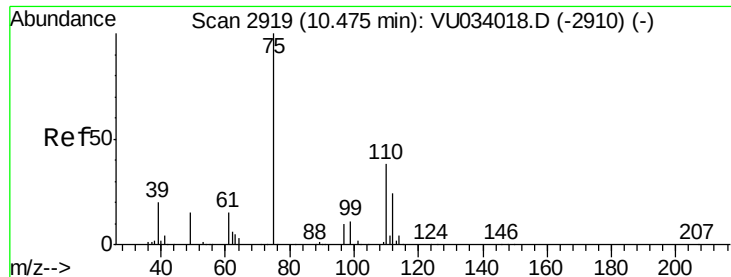
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.3	45.1	67.7
119	31.8	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034227.D
Acq: 03 Sep 2019 15:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	41.1	123.3
150	156.7	0.0	348.8





#76

1,2,3-Trichloropropane

Concen: 19.673 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

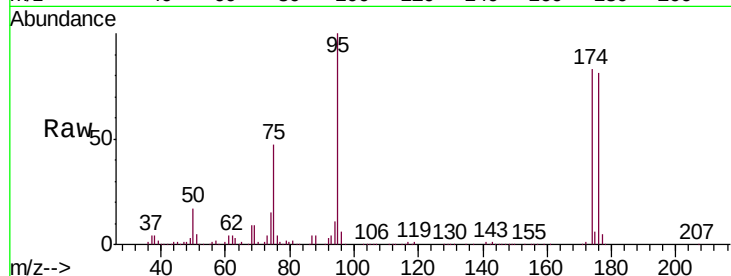
T16-17-E4-(2.25)

Tgt Ion: 75 Resp: 154078

Ion Ratio Lower Upper

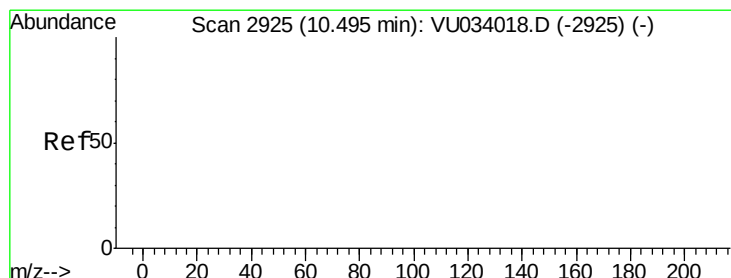
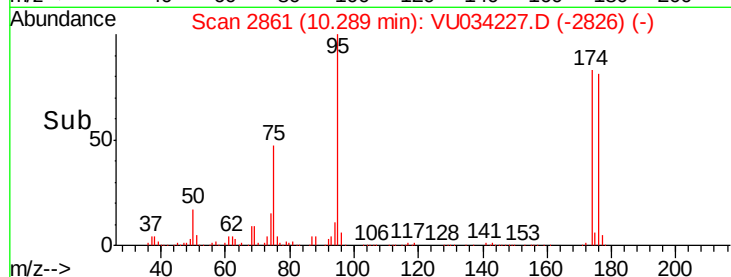
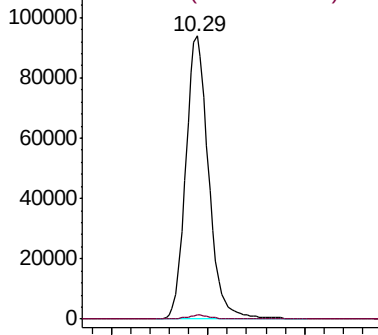
75 100

77 1.4 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.243 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034227.D

Acq: 03 Sep 2019 15:25

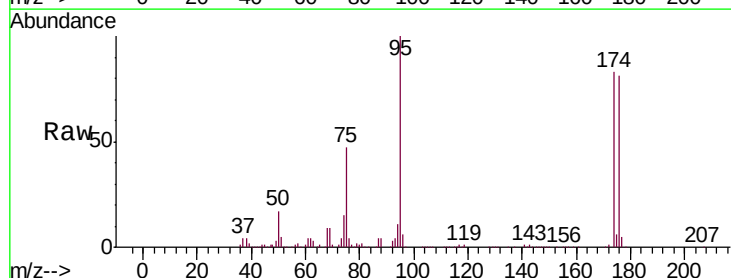
Tgt Ion: 75 Resp: 154078

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

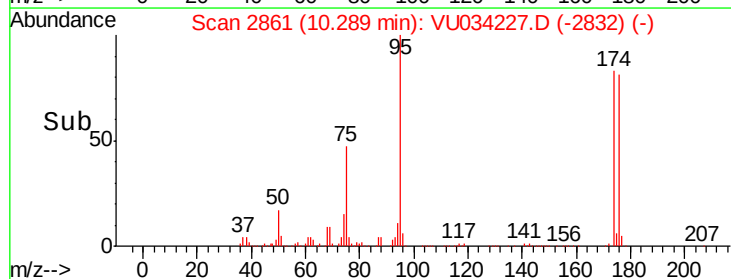
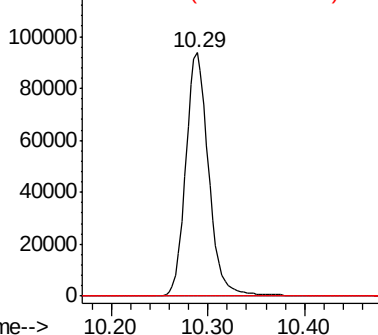
89 0.0 0.0 0.0

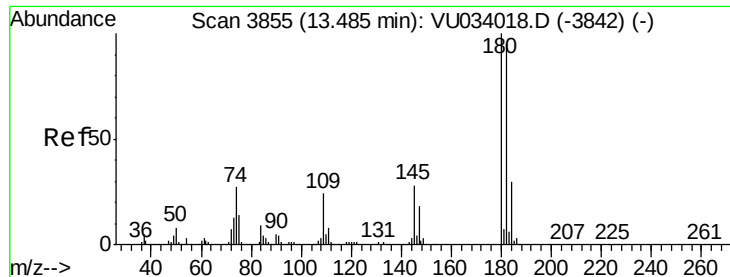


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

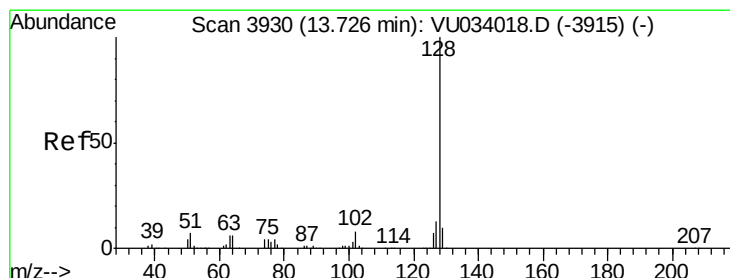
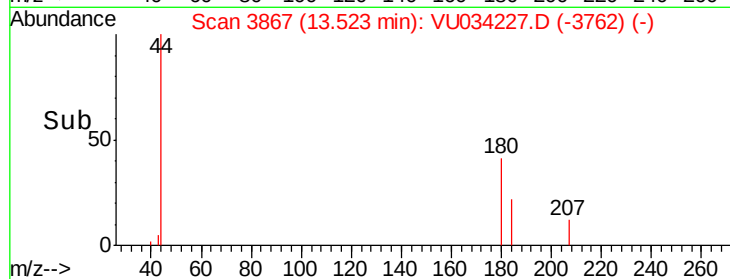
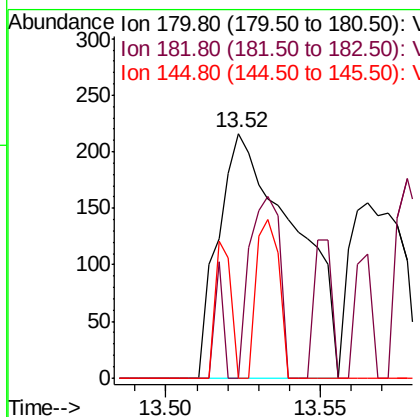
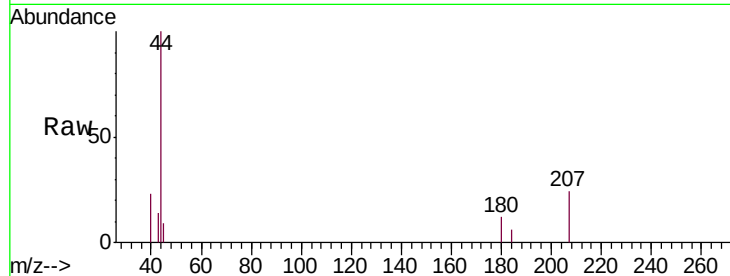




#93
 1,2,4-Trichlorobenzene
 Concen: 1.161 ug/l
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.04 min
 Lab File: VU034227.D
 Acq: 03 Sep 2019 15:25

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E4-(2.25)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	5.4	47.4	142.2#
145	12.0	14.1	42.3#



#95
 Naphthalene
 Concen: 1.881 ug/l
 RT: 13.77 min Scan# 3945
 Delta R.T. 0.05 min
 Lab File: VU034227.D
 Acq: 03 Sep 2019 15:25

Tgt Ion	Ratio	Lower	Upper
128	100		
127	7.9	10.2	15.4#
129	0.0	8.4	12.6#

