

Data File : VU034226.D
Acq On : 03 Sep 2019 15:01
Operator : JC/SP
Sample : K4545-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(2.25)

Quant Time: Sep 04 04:23:58 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	436784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	691748	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	685028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	331556	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	270032	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
35) Dibromofluoromethane	4.86	113	229685	47.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.74%	
50) Toluene-d8	7.55	98	911460	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
62) 4-Bromofluorobenzene	10.29	95	311867	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	

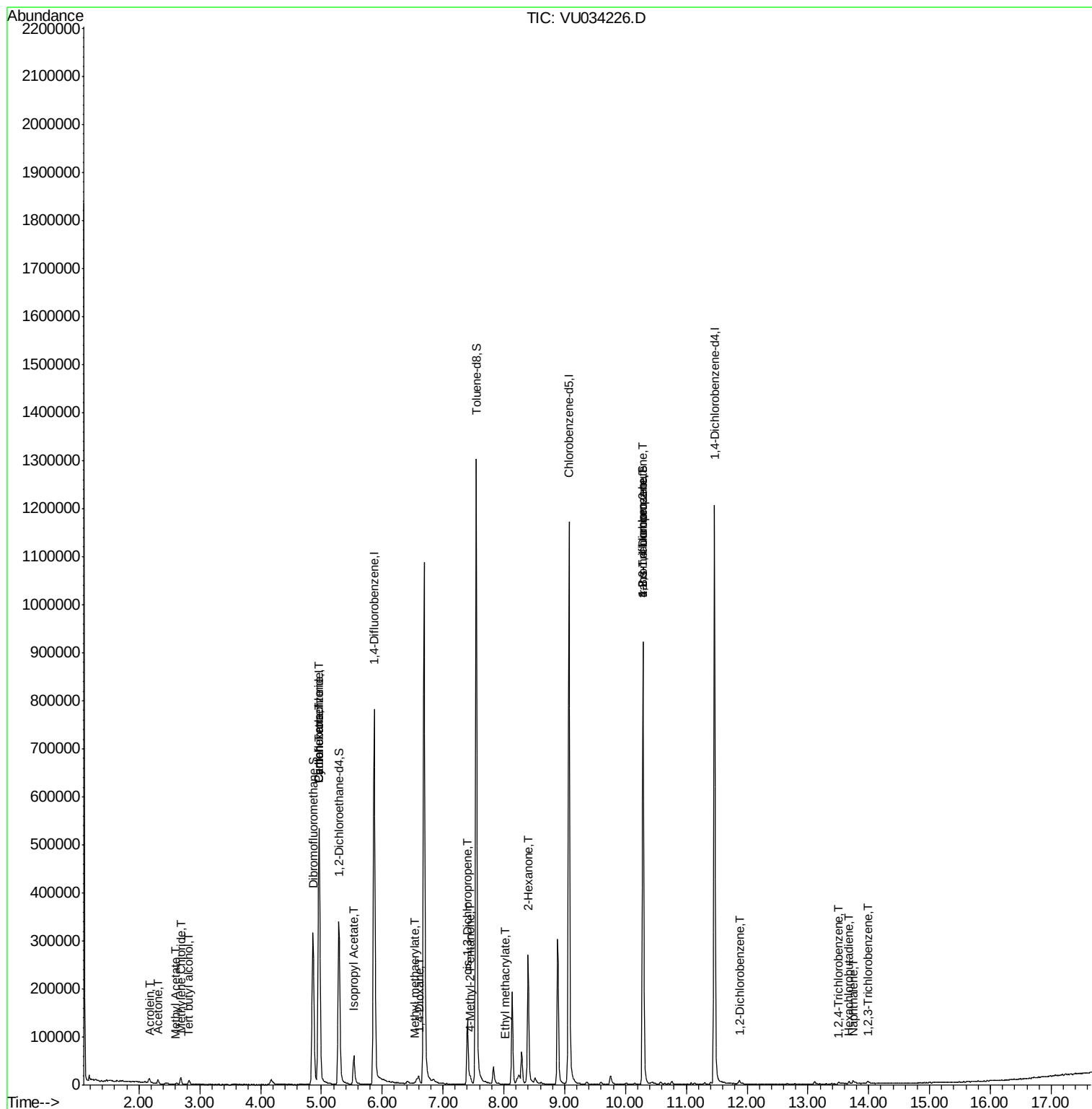
Target Compounds					Qvalue
3) Chloromethane	1.33	50	790	Below Cal	97
5) Bromomethane	1.63	94	978	Below Cal	85
11) Tert butyl alcohol	2.82	59	4411	3.418 ug/l #	76
13) Acrolein	2.19	56	166	0.306 ug/l #	23
16) Acetone	2.31	43	10907	3.819 ug/l	93
18) Methyl Acetate	2.61	43	3791	0.514 ug/l #	70
20) Methylene Chloride	2.69	84	6369	1.178 ug/l	95
31) Cyclohexane	4.96	56	8220	0.984 ug/l #	1
38) Carbon Tetrachloride	4.96	117	39631	6.275 ug/l #	17
43) Isopropyl Acetate	5.53	43	71452	6.410 ug/l	100
48) Methyl methacrylate	6.53	41	2971	0.552 ug/l #	14
49) 1,4-Dioxane	6.61	88	423	3.139 ug/l #	22
51) 4-Methyl-2-Pentanone	7.45	43	10619	1.379 ug/l	97
54) cis-1,3-Dichloropropene	7.40	75	26078	3.132 ug/l #	61
56) Ethyl methacrylate	8.02	69	420	1.020 ug/l #	27
59) 2-Hexanone	8.40	43	44394	7.639 ug/l #	57
76) 1,2,3-Trichloropropane	10.29	75	147832	19.783 ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	147832	66.614 ug/l #	100
91) 1,2-Dichlorobenzene	11.87	146	2058	0.203 ug/l	81
93) 1,2,4-Trichlorobenzene	13.51	180	1385	1.301 ug/l #	55
94) Hexachlorobutadiene	13.67	225	1333	0.335 ug/l	94
95) Naphthalene	13.75	128	7440	2.136 ug/l #	88
96) 1,2,3-Trichlorobenzene	13.99	180	3285	0.505 ug/l	91

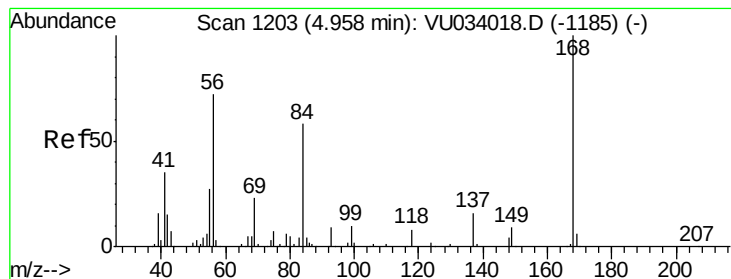
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

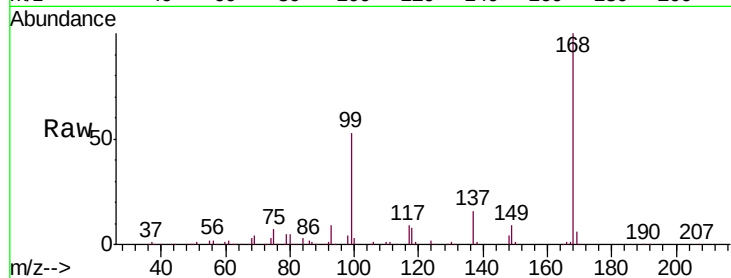
T16-17-E3-(2.25)

Tgt Ion:168 Resp: 436784

Ion Ratio Lower Upper

168 100

99 52.5 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

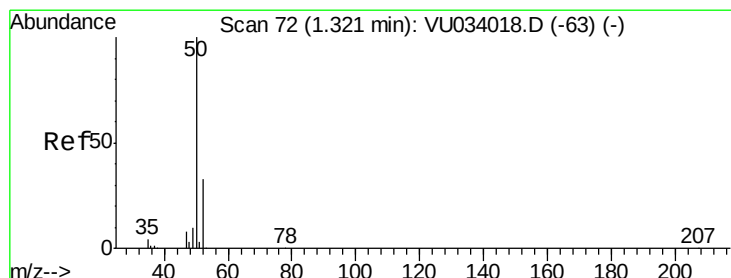
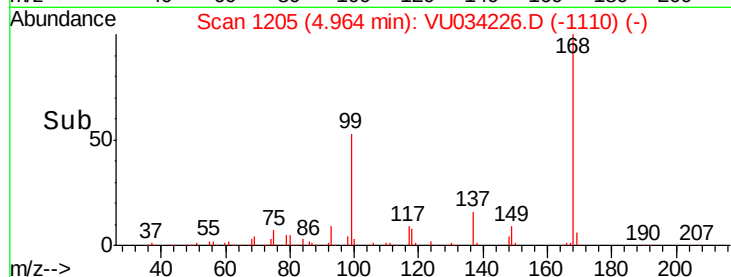
100000

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: VU034226.D

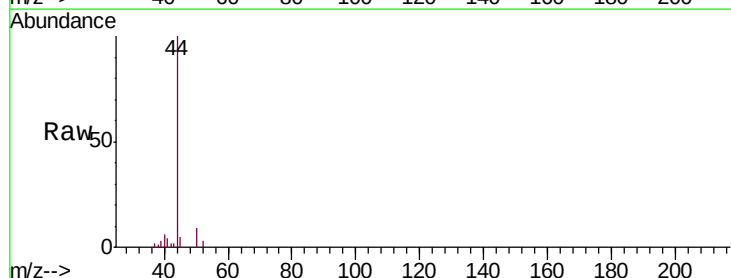
Acq: 03 Sep 2019 15:01

Tgt Ion: 50 Resp: 790

Ion Ratio Lower Upper

50 100

52 31.4 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034226.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034226.D (-1) (-)

1.33

600

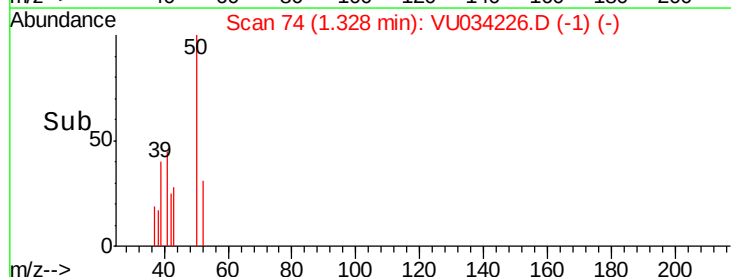
400

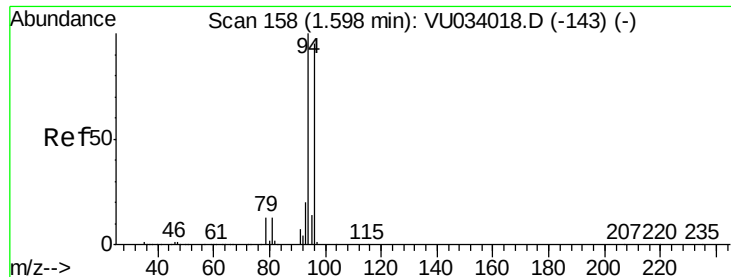
200

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

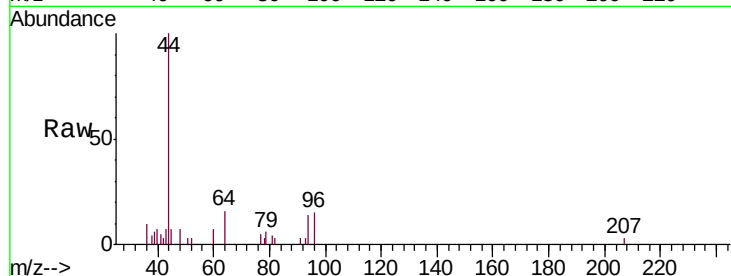
T16-17-E3-(2.25)

Tgt Ion: 94 Resp: 978

Ion Ratio Lower Upper

94 100

96 110.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VU034018.D (-143) (-)

1.63

600

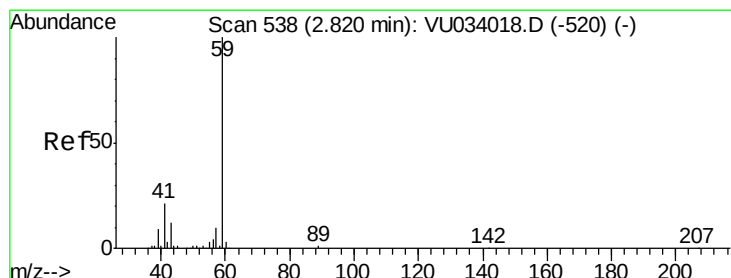
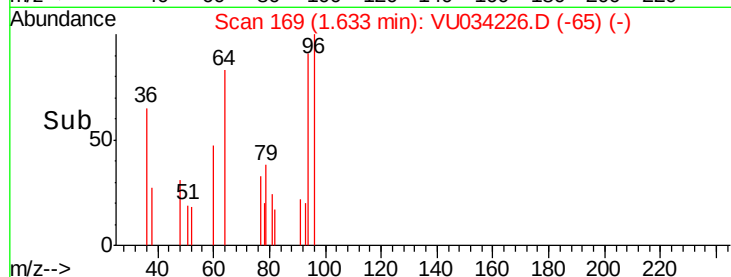
400

200

0

1.60 1.65

Time-->



#11

Tert butyl alcohol

Concen: 3.418 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034226.D

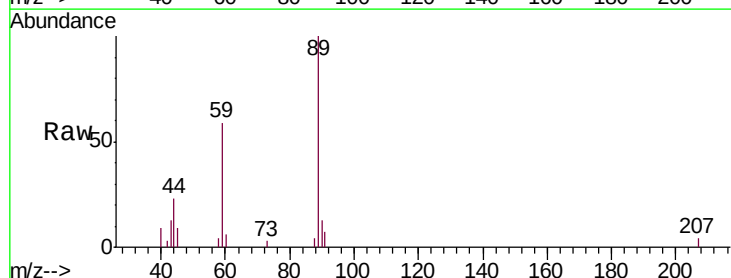
Acq: 03 Sep 2019 15:01

Tgt Ion: 59 Resp: 4411

Ion Ratio Lower Upper

59 100

57 0.9 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034018.D (-520) (-)

Ion 57.00 (56.70 to 57.70): VU034018.D (-520) (-)

2.82

2000

1500

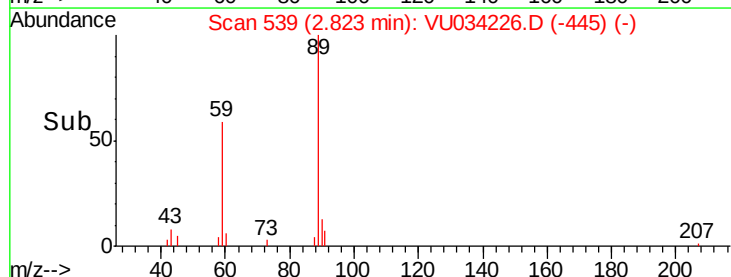
1000

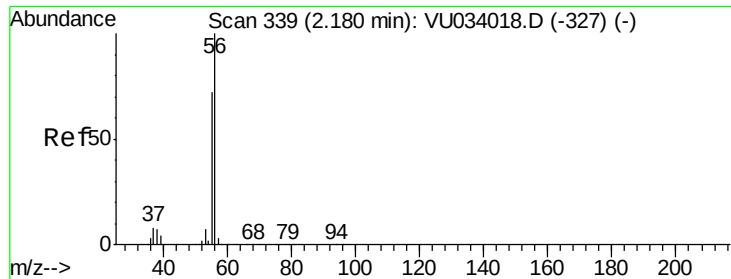
500

0

2.75 2.80 2.85 2.90

Time-->





#13

Acrolein

Concen: 0.306 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

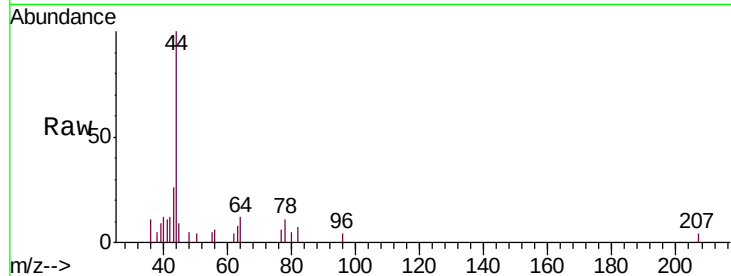
T16-17-E3-(2.25)

Tgt Ion: 56 Resp: 166

Ion Ratio Lower Upper

56 100

55 134.9 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

150

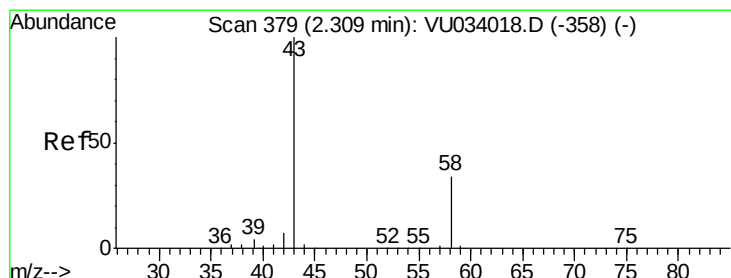
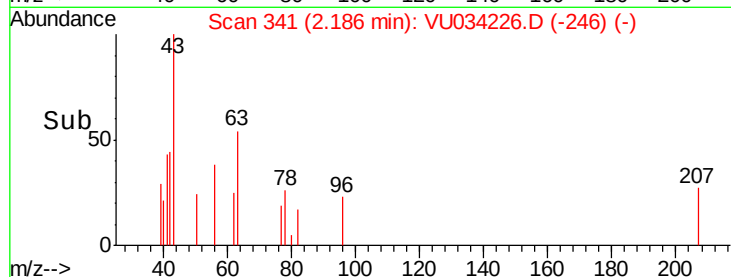
100

50

0

2.16 2.18 2.20

Time-->



#16

Acetone

Concen: 3.819 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034226.D

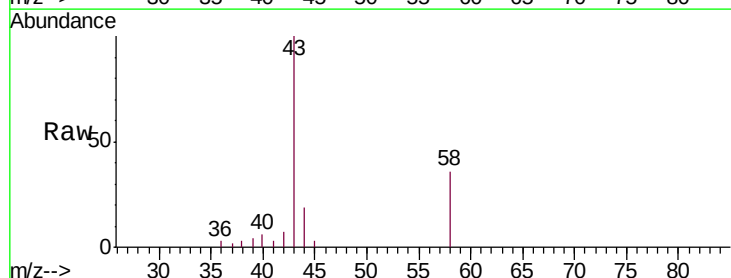
Acq: 03 Sep 2019 15:01

Tgt Ion: 43 Resp: 10907

Ion Ratio Lower Upper

43 100

58 37.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)

2.31

6000

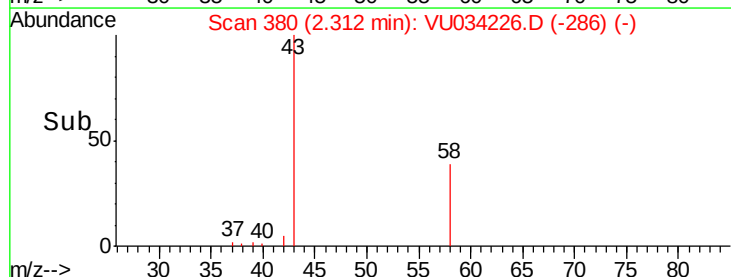
4000

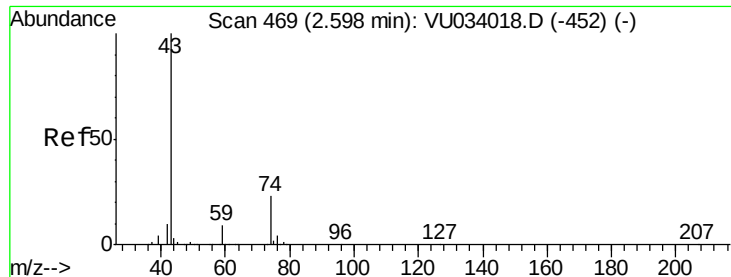
2000

0

2.25 2.30 2.35

Time-->

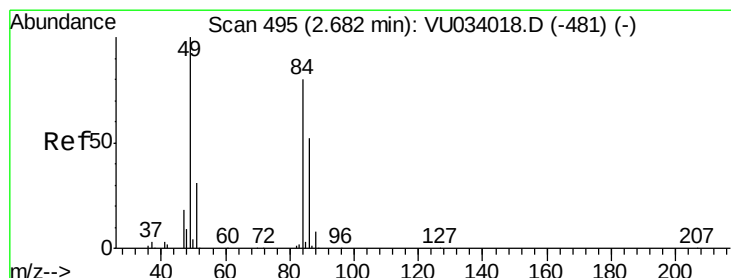
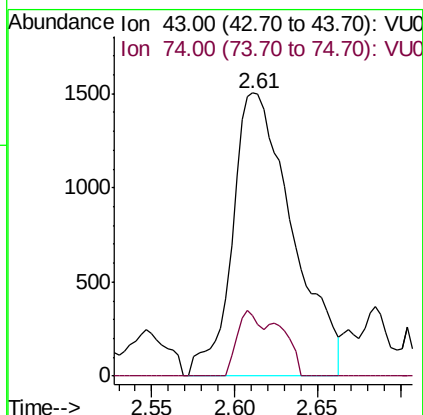
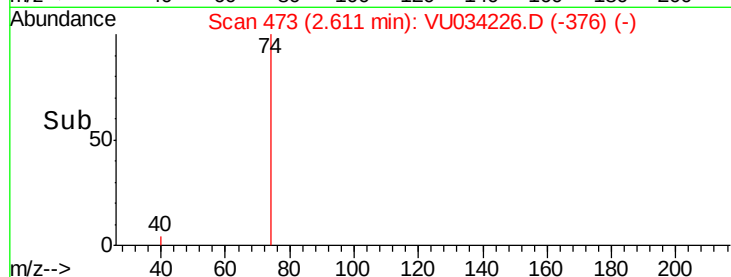
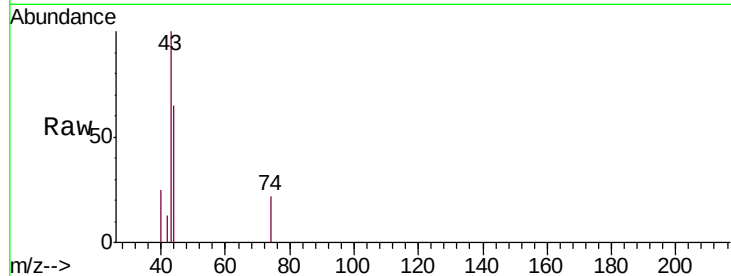




#18
Methyl Acetate
Concen: 0.514 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

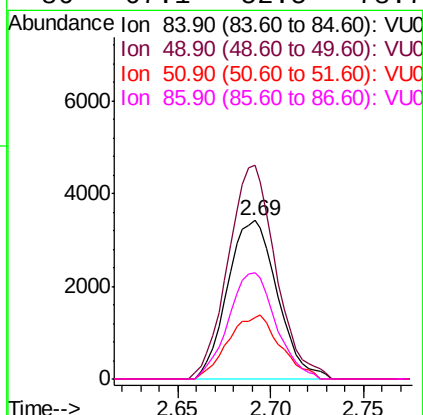
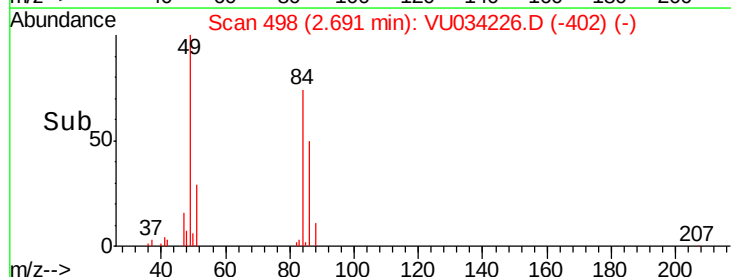
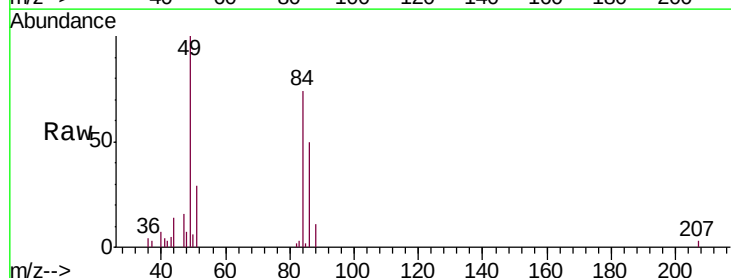
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(2.25)

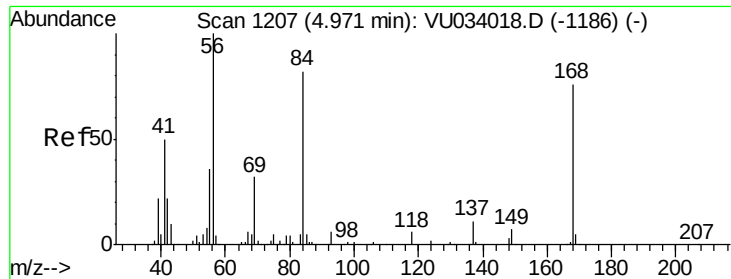
Tgt Ion: 43 Resp: 3791
Ion Ratio Lower Upper
43 100
74 9.4 19.2 28.8#



#20
Methylene Chloride
Concen: 1.178 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

Tgt Ion: 84 Resp: 6369
Ion Ratio Lower Upper
84 100
49 134.8 100.2 150.4
51 39.1 30.8 46.2
86 67.1 52.5 78.7

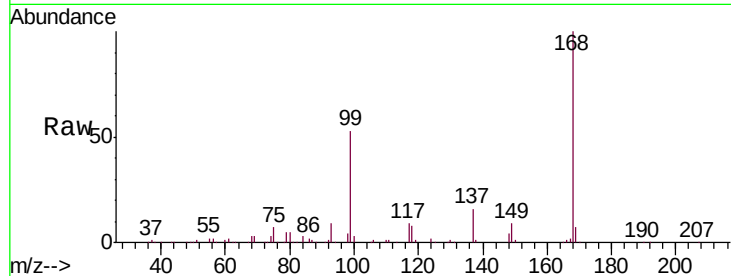




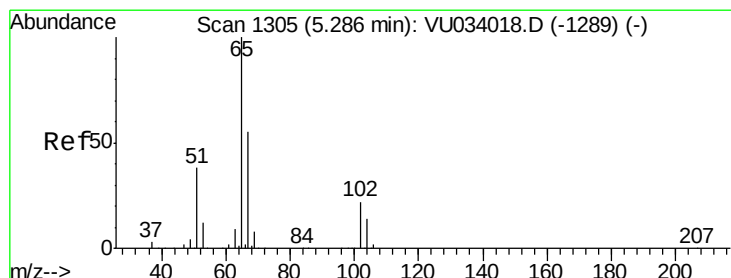
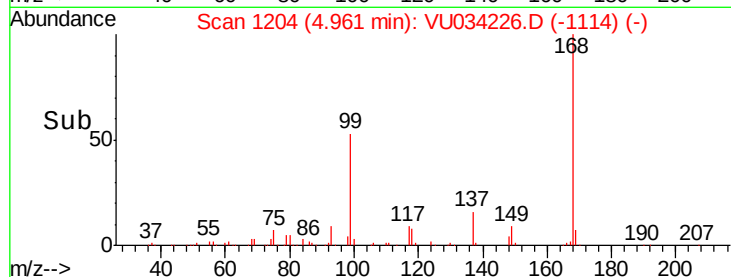
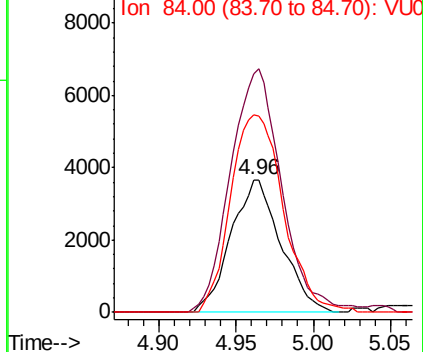
#31
Cyclohexane
Concen: 0.984 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(2.25)

Tgt Ion: 56 Resp: 8220
Ion Ratio Lower Upper
56 100
69 180.4 25.4 38.0#
84 148.6 65.8 98.8#

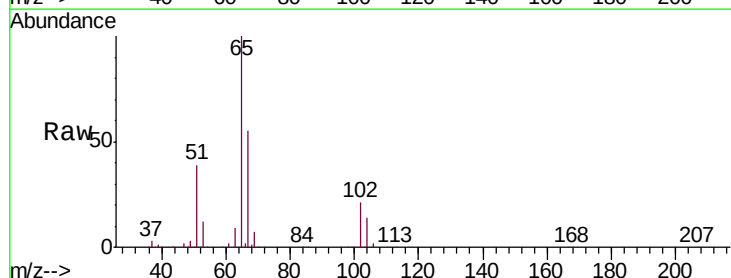


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

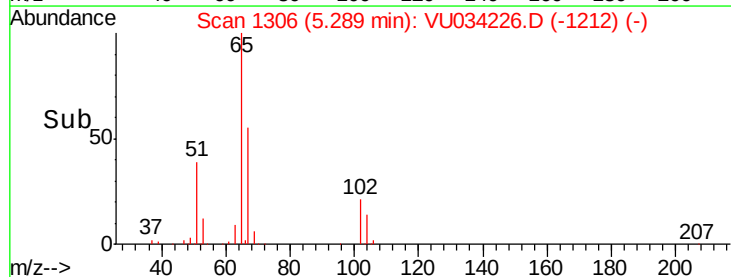
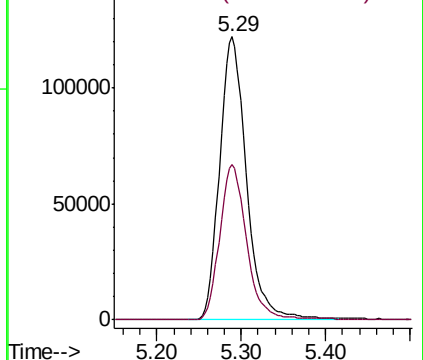


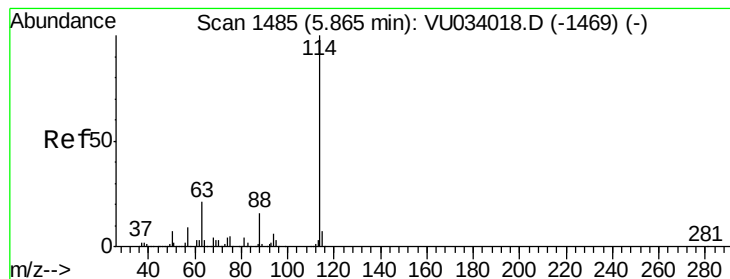
#33
1,2-Dichloroethane-d4
Concen: 48.249 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

Tgt Ion: 65 Resp: 270032
Ion Ratio Lower Upper
65 100
67 54.8 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: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(2.25)

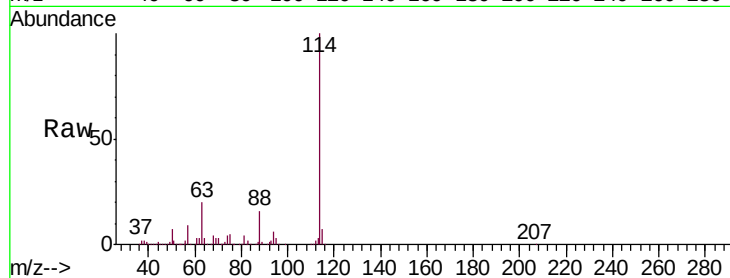
Tgt Ion:114 Resp: 691748

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.0

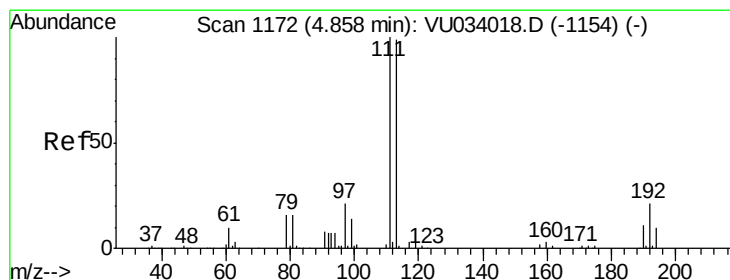
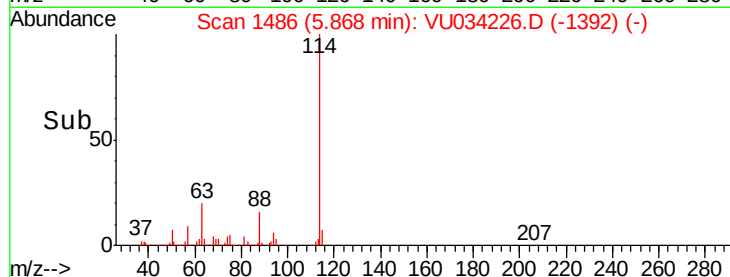
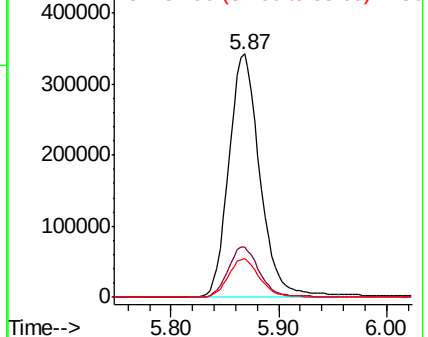
88 15.8 0.0 32.0



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: 47.872 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

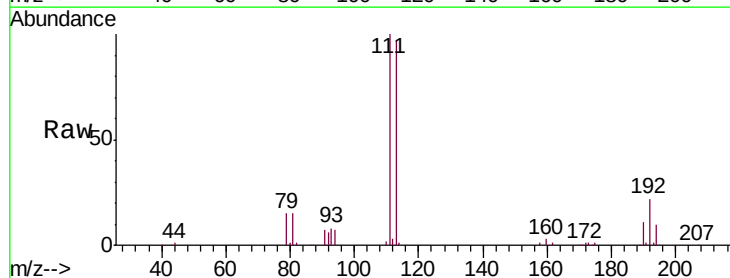
Tgt Ion:113 Resp: 229685

Ion Ratio Lower Upper

113 100

111 103.5 81.7 122.5

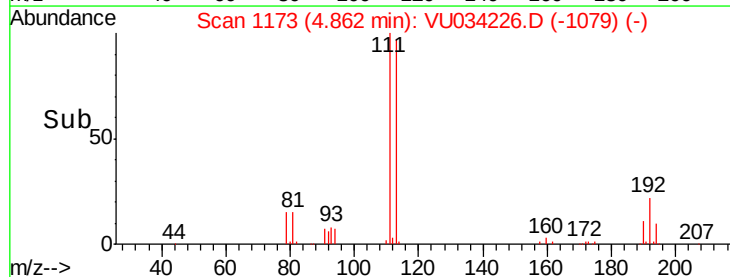
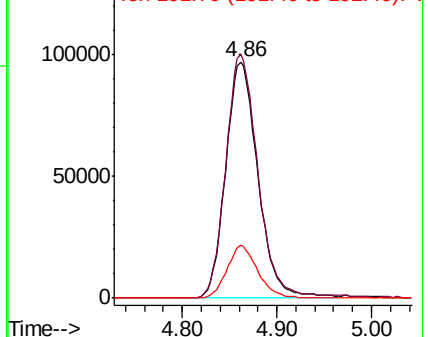
192 21.4 17.1 25.7

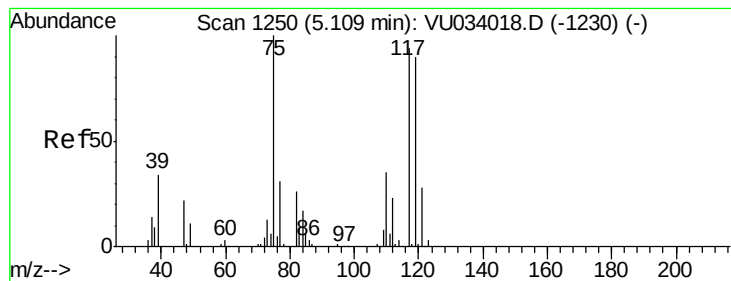


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.275 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(2.25)

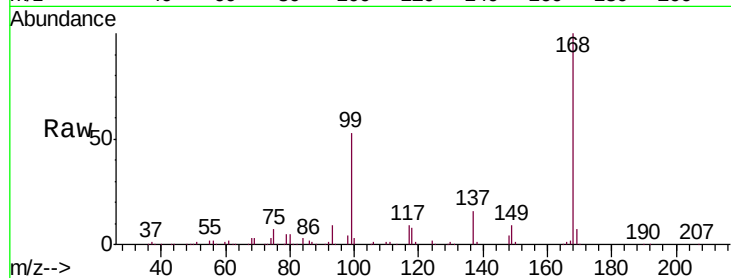
Tgt Ion:117 Resp: 39631

Ion Ratio Lower Upper

117 100

119 6.2 77.0 115.4#

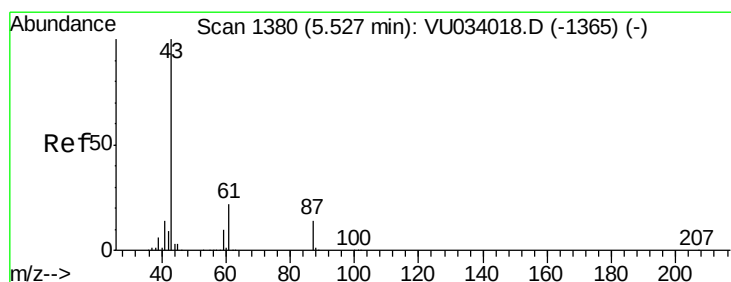
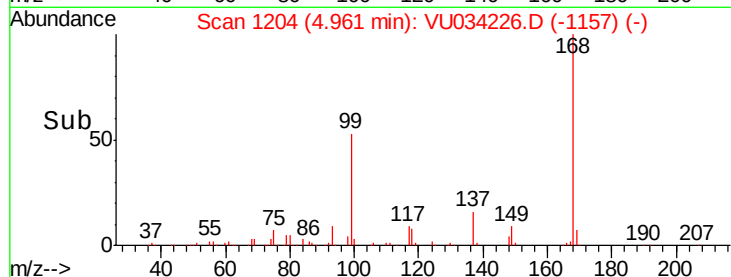
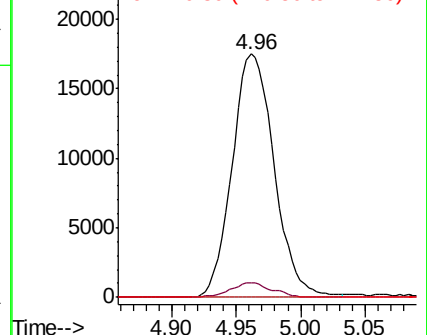
121 0.0 23.9 35.9#



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: 6.410 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

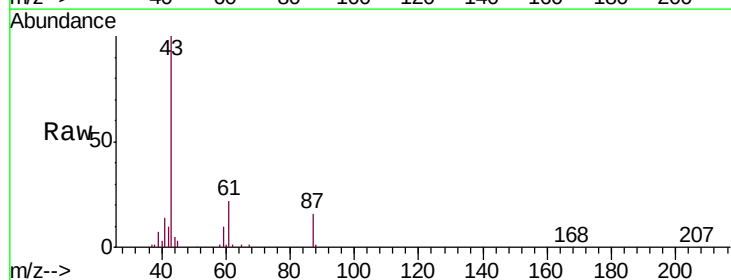
Tgt Ion: 43 Resp: 71452

Ion Ratio Lower Upper

43 100

61 21.3 17.2 25.8

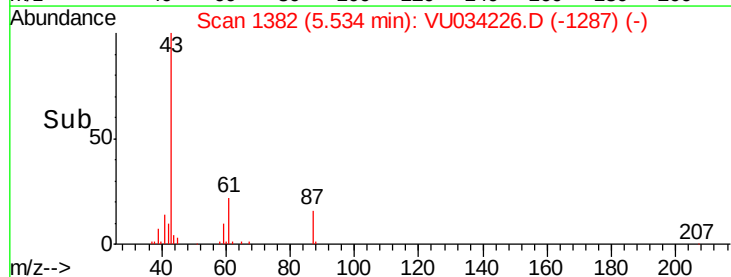
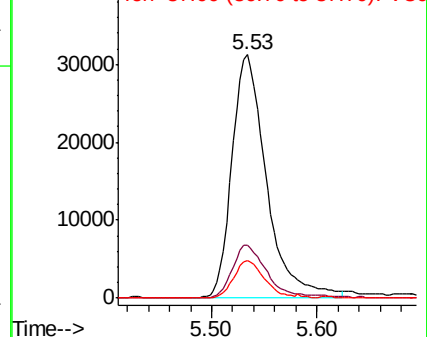
87 13.7 10.8 16.2

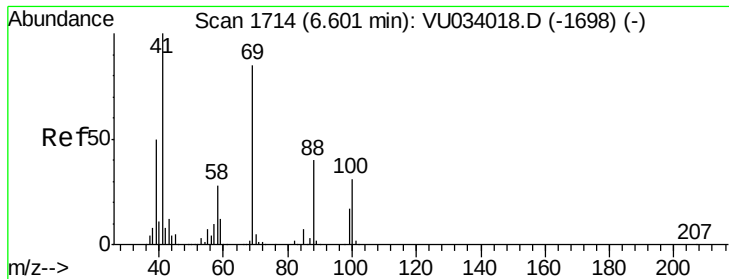


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

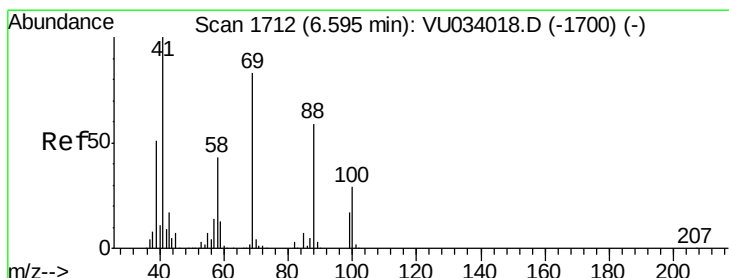
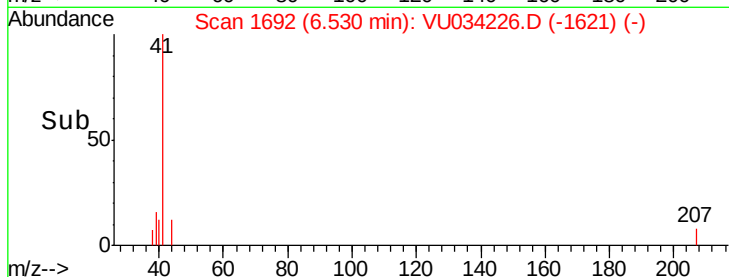
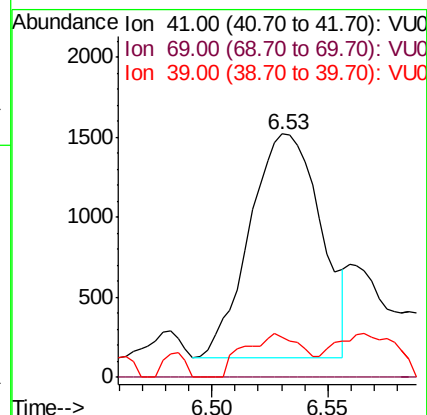
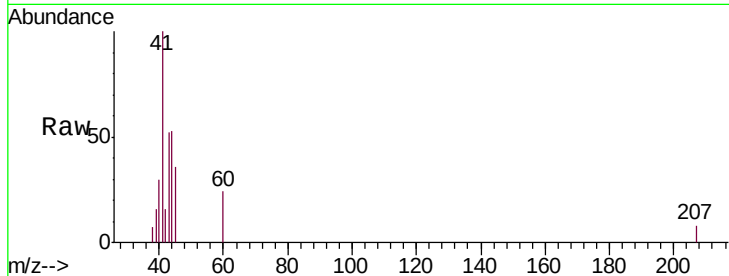




#48
Methyl methacrylate
Concen: 0.552 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

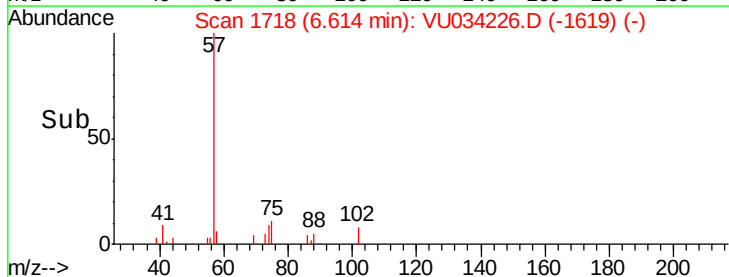
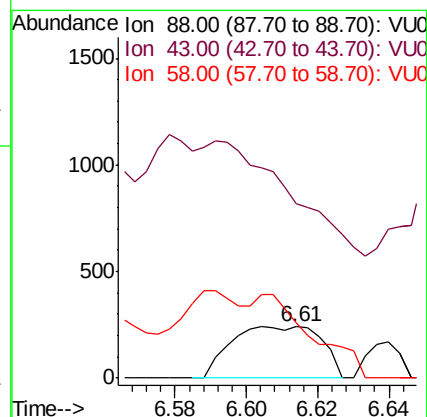
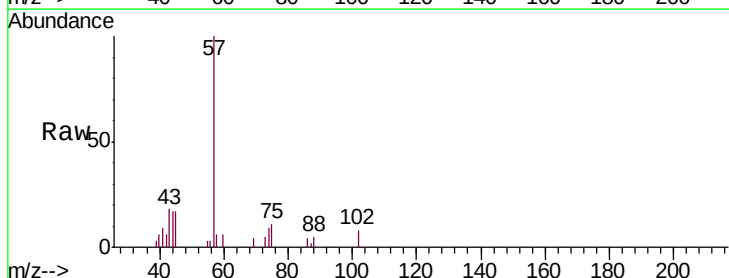
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(2.25)

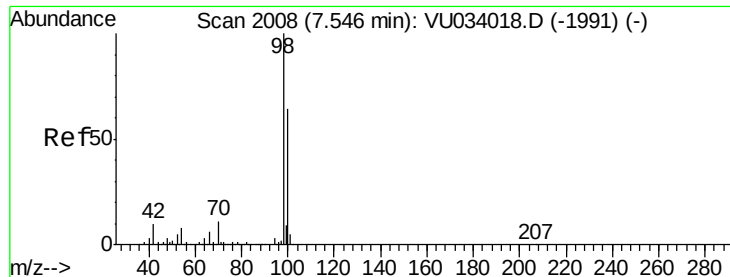
Tgt Ion: 41 Resp: 2971
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 3.139 ug/l
RT: 6.61 min Scan# 1718
Delta R.T. 0.02 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

Tgt Ion: 88 Resp: 423
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 0.0 59.3 88.9#

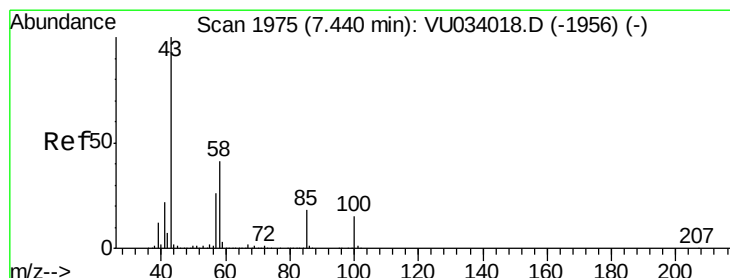
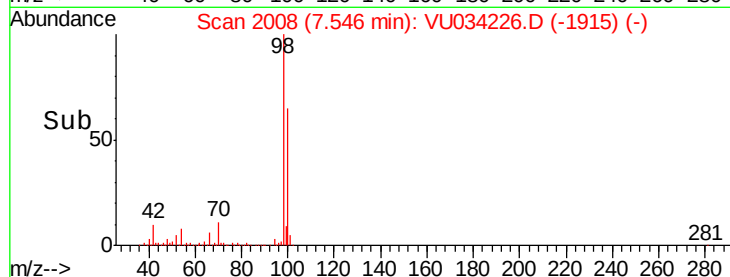
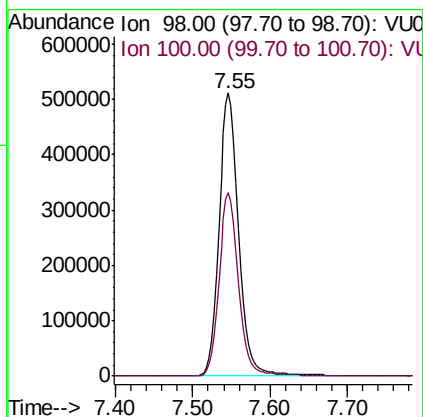
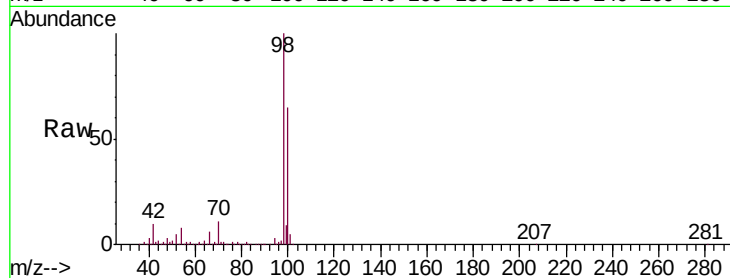




#50
Toluene-d8
Concen: 50.735 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

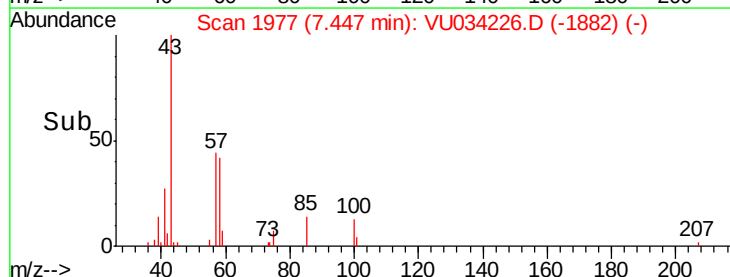
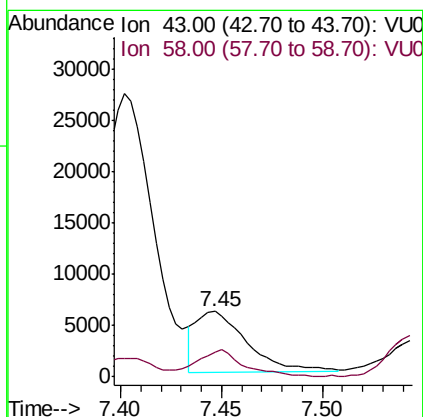
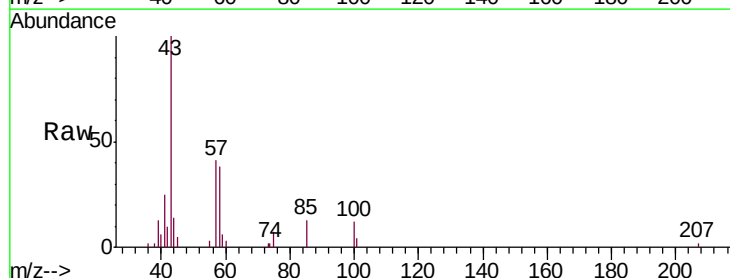
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(2.25)

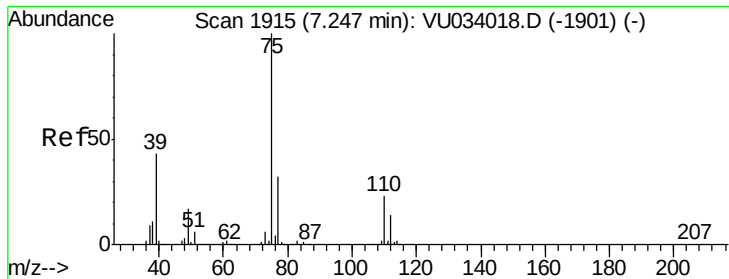
Tgt Ion: 98 Resp: 911460
Ion Ratio Lower Upper
98 100
100 64.1 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.379 ug/l
RT: 7.45 min Scan# 1977
Delta R.T. 0.01 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

Tgt Ion: 43 Resp: 10619
Ion Ratio Lower Upper
43 100
58 42.1 32.2 48.4



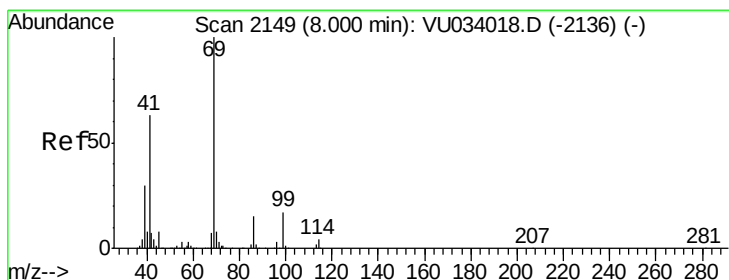
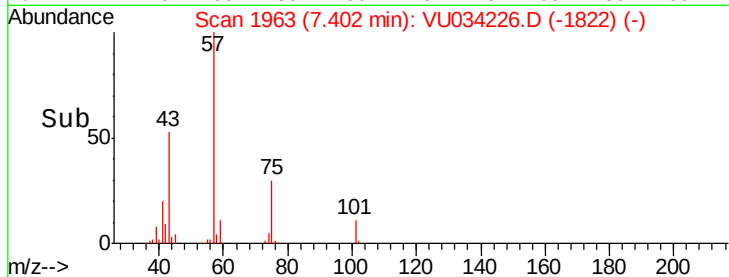
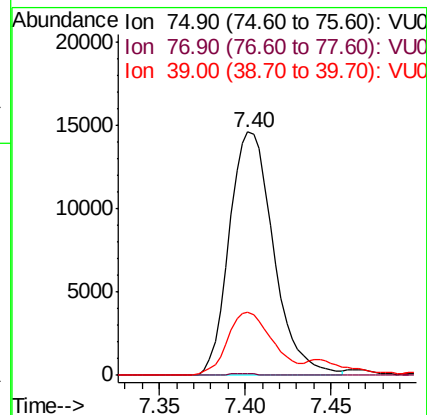
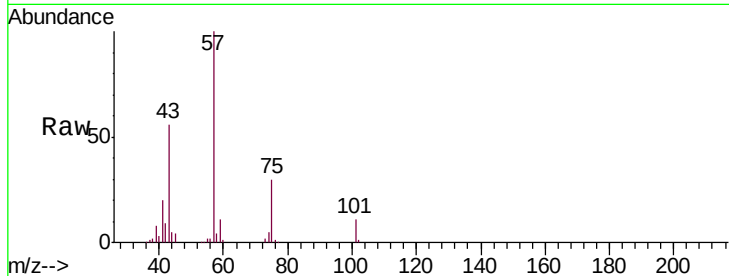


#54

cis-1,3-Dichloropropene
 Concen: 3.132 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E3-(2.25)

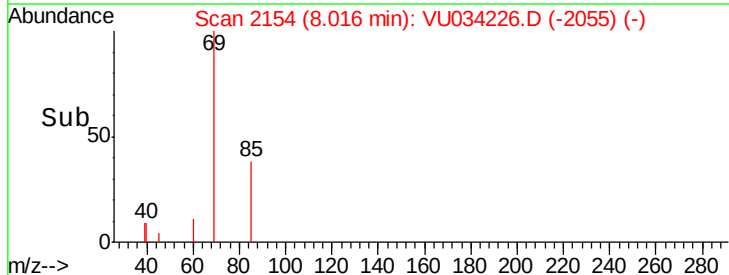
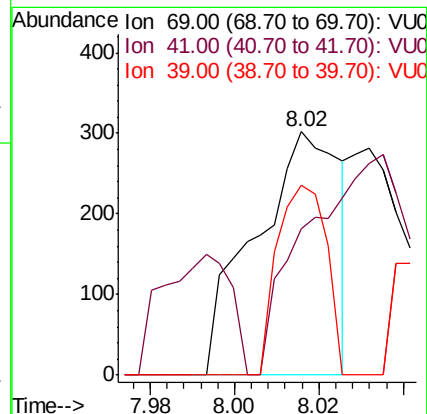
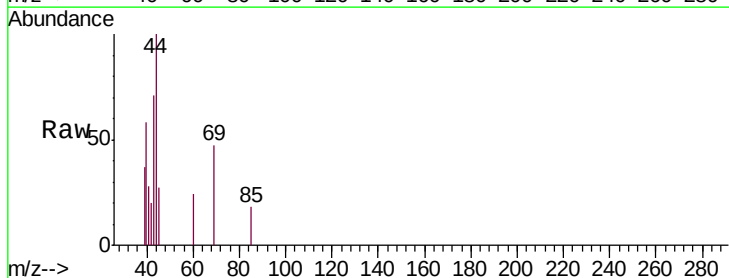
Tgt Ion: 75 Resp: 26078
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 25.9 34.6 51.8#

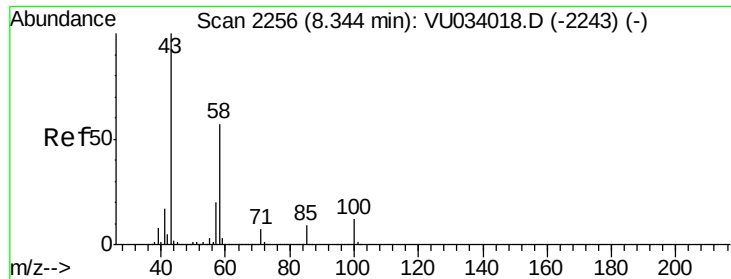


#56

Ethyl methacrylate
 Concen: 1.020 ug/l
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.02 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

Tgt Ion: 69 Resp: 420
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#





#59

2-Hexanone

Concen: 7.639 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

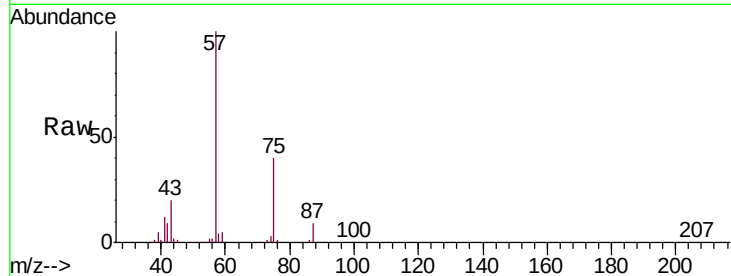
T16-17-E3-(2.25)

Tgt Ion: 43 Resp: 44394

Ion Ratio Lower Upper

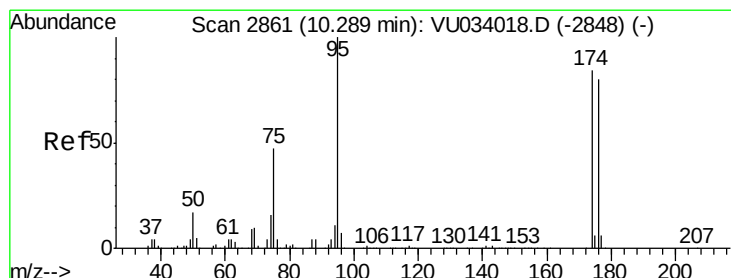
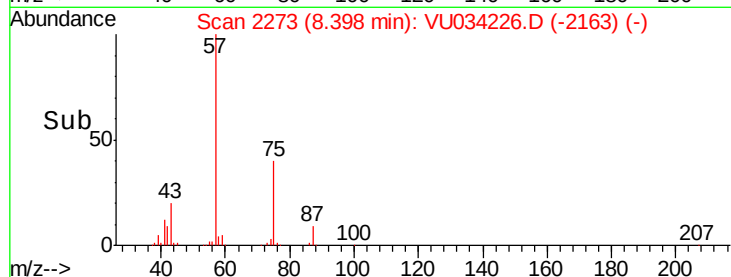
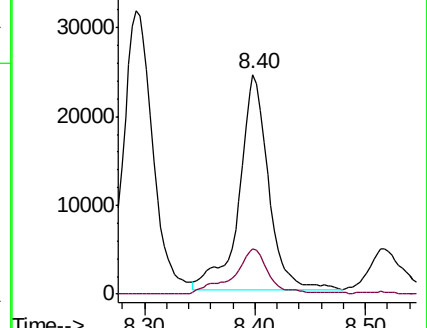
43 100

58 25.5 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-2243) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-2243) (-)



#62

4-Bromofluorobenzene

Concen: 44.627 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

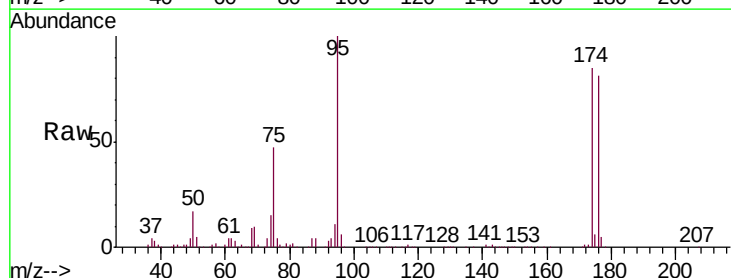
Tgt Ion: 95 Resp: 311867

Ion Ratio Lower Upper

95 100

174 85.9 0.0 168.8

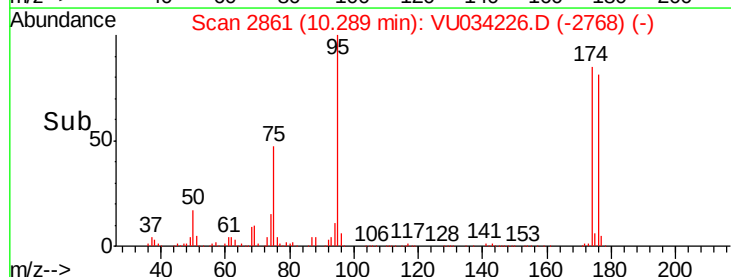
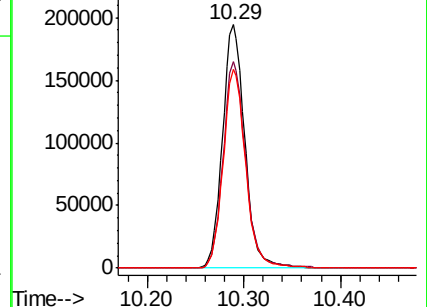
176 82.3 0.0 161.8

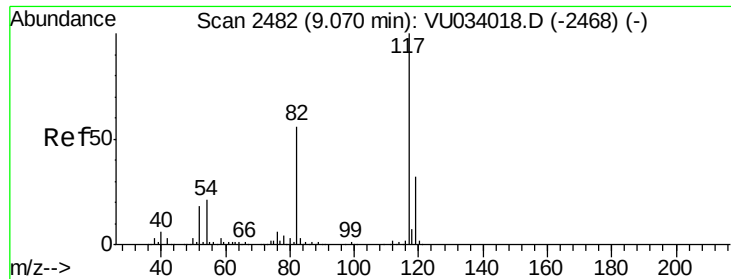


Abundance Ion 94.90 (94.60 to 95.60): VU034018.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034018.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034018.D (-2848) (-)

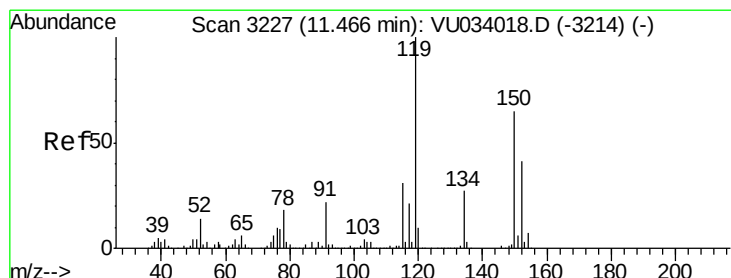
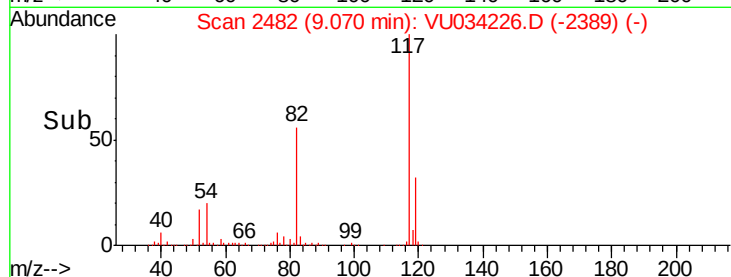
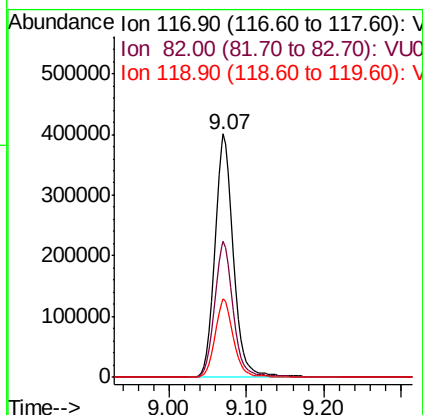
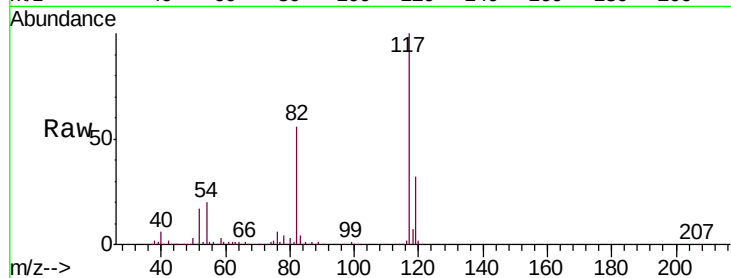




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

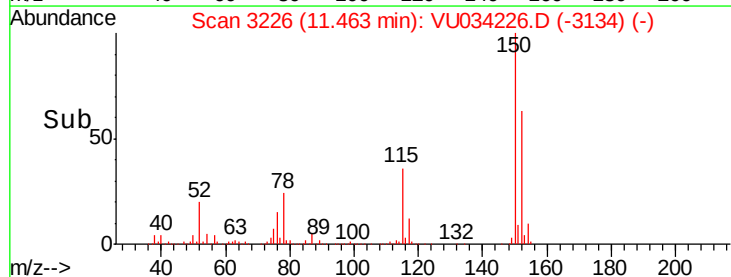
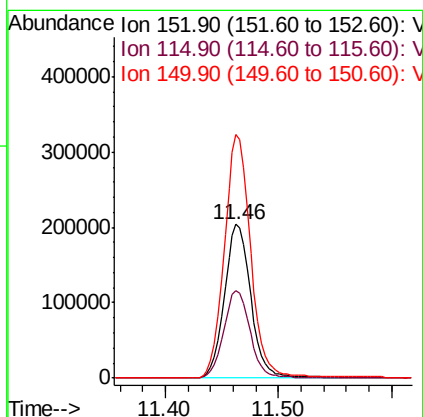
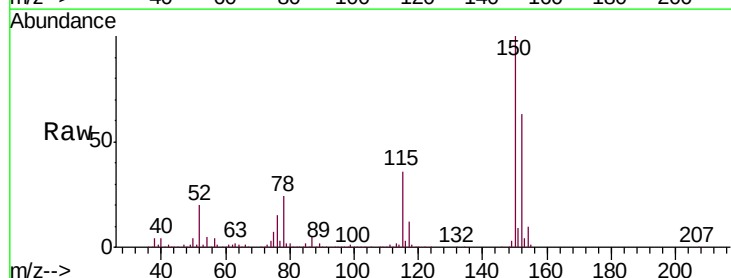
Instrument :
MSVOA_U
ClientSampleId :
T16-17-E3-(2.25)

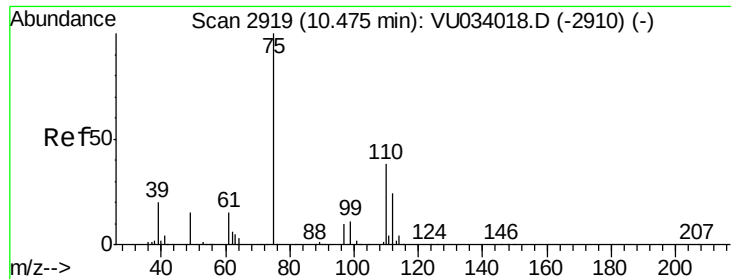
Tgt Ion:117 Resp: 685028
Ion Ratio Lower Upper
117 100
82 55.8 45.1 67.7
119 32.4 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034226.D
Acq: 03 Sep 2019 15:01

Tgt Ion:152 Resp: 331556
Ion Ratio Lower Upper
152 100
115 57.2 41.1 123.3
150 158.2 0.0 348.8

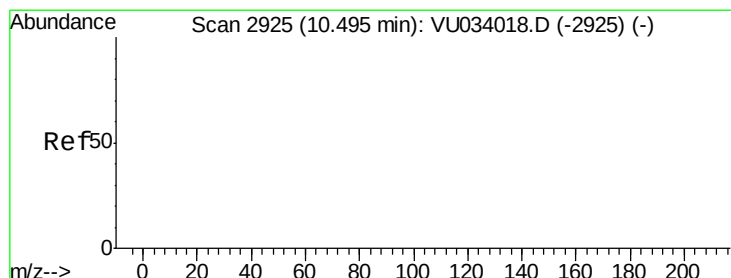
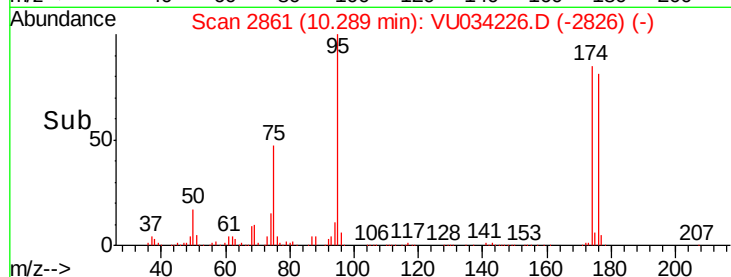
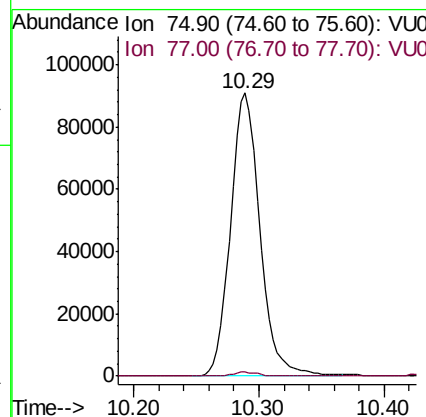
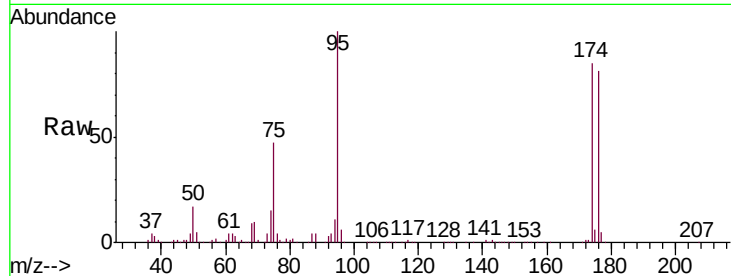




#76
 1,2,3-Trichloropropane
 Concen: 19.783 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

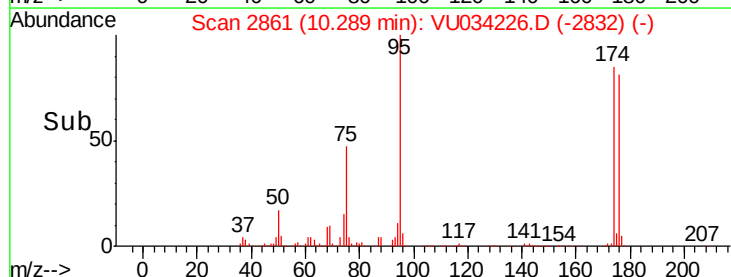
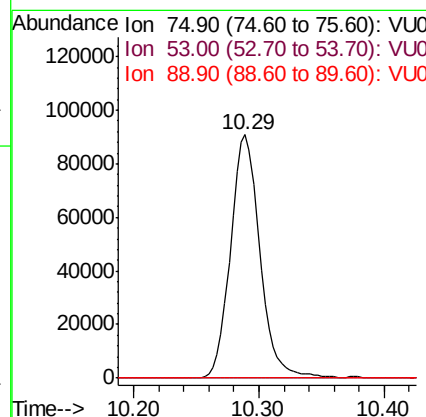
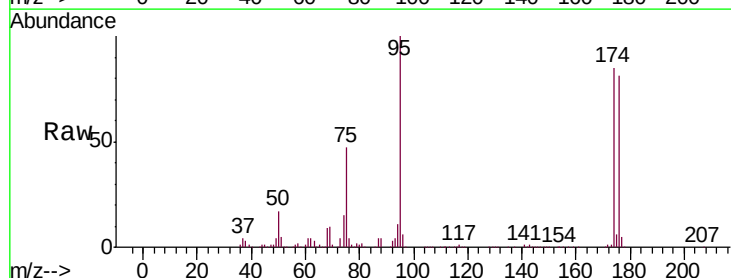
Instrument :
 MSVOA_U
 ClientSampled :
 T16-17-E3-(2.25)

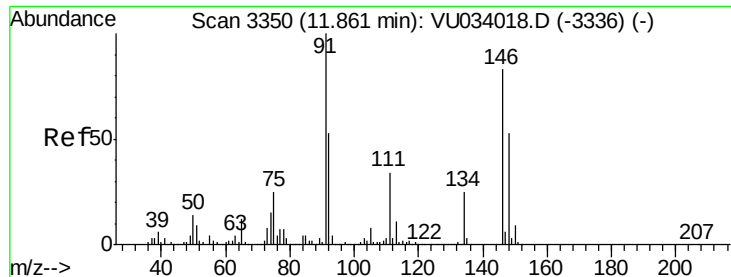
Tgt Ion: 75 Resp: 147832
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.614 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

Tgt Ion: 75 Resp: 147832
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0#
 89 0.0 0.0 0.0

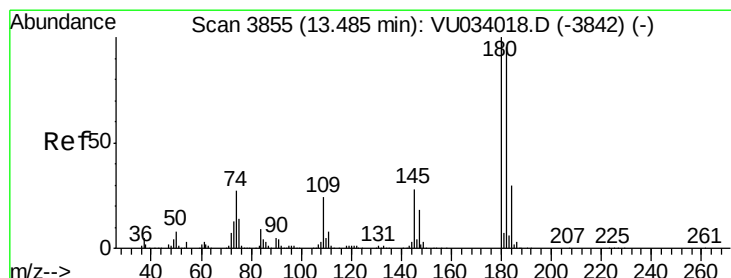
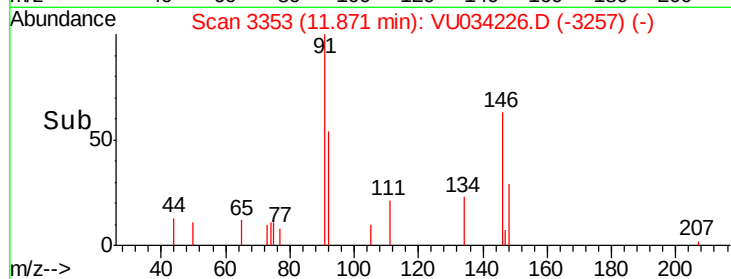
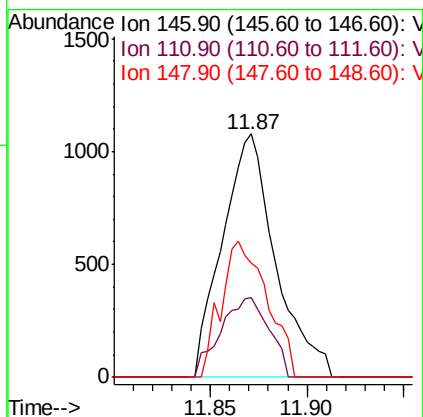
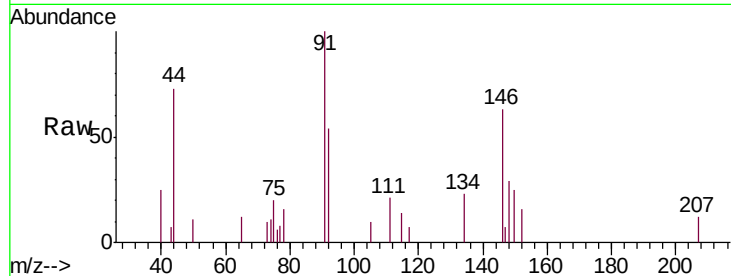




#91
 1,2-Dichlorobenzene
 Concen: 0.203 ug/l
 RT: 11.87 min Scan# 3353
 Delta R.T. 0.01 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

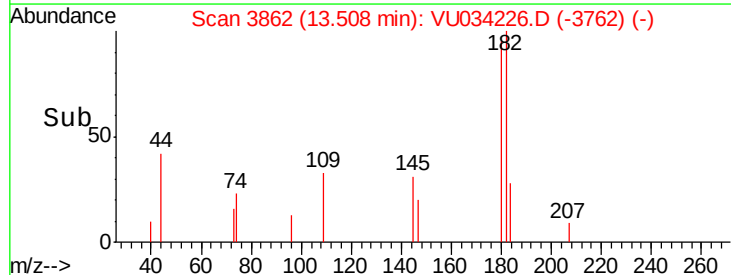
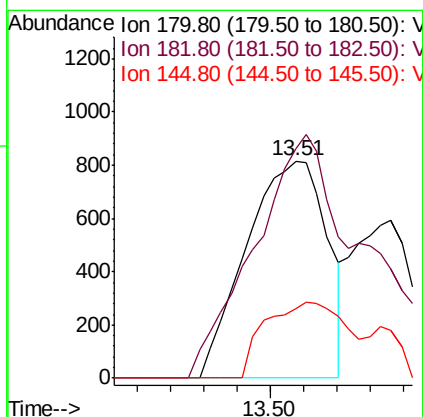
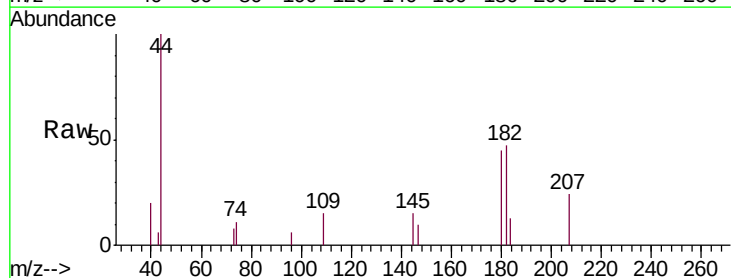
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E3-(2.25)

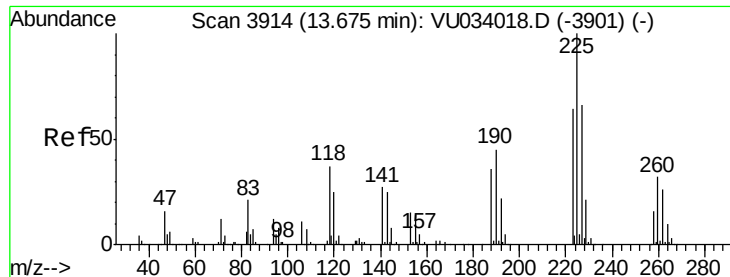
Tgt Ion:146 Resp: 2058
 Ion Ratio Lower Upper
 146 100
 111 29.8 20.4 61.2
 148 48.4 32.3 96.8



#93
 1,2,4-Trichlorobenzene
 Concen: 1.301 ug/l
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.02 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

Tgt Ion:180 Resp: 1385
 Ion Ratio Lower Upper
 180 100
 182 147.2 47.4 142.2#
 145 34.8 14.1 42.3





#94

Hexachlorobutadiene

Concen: 0.335 ug/l

RT: 13.67 min Scan# 3914

Delta R.T. 0.00 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

Instrument :

MSVOA_U

ClientSampleId :

T16-17-E3-(2.25)

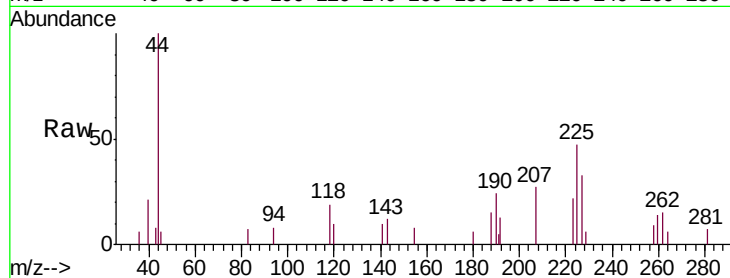
Tgt Ion:225 Resp: 1333

Ion Ratio Lower Upper

225 100

223 54.3 31.8 95.3

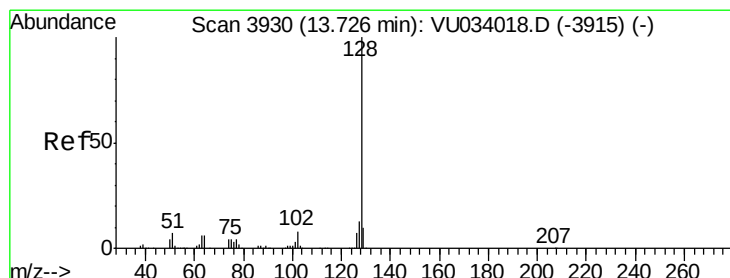
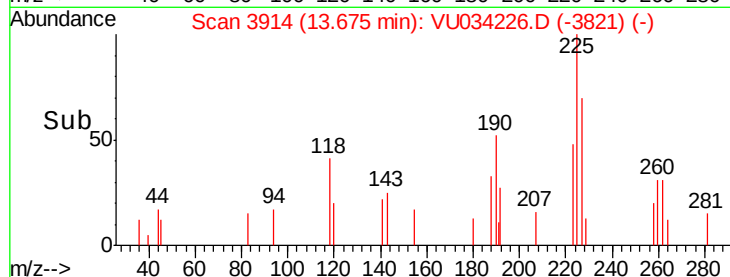
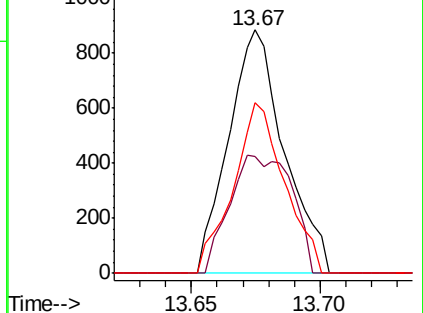
227 64.2 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.136 ug/l

RT: 13.75 min Scan# 3937

Delta R.T. 0.02 min

Lab File: VU034226.D

Acq: 03 Sep 2019 15:01

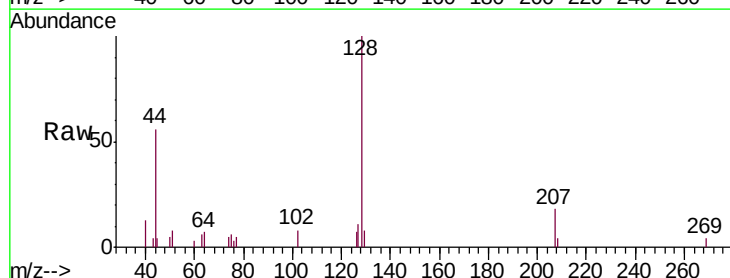
Tgt Ion:128 Resp: 7440

Ion Ratio Lower Upper

128 100

127 9.3 10.2 15.4#

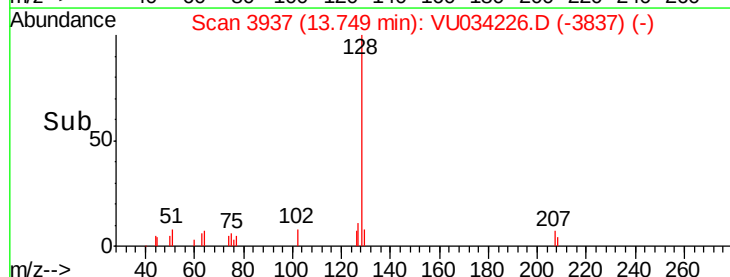
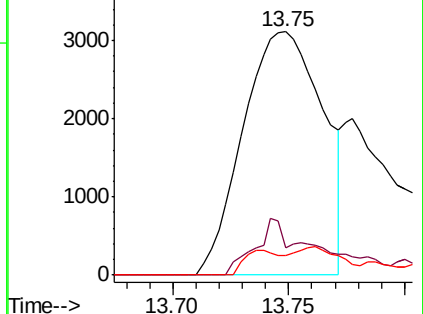
129 4.1 8.4 12.6#

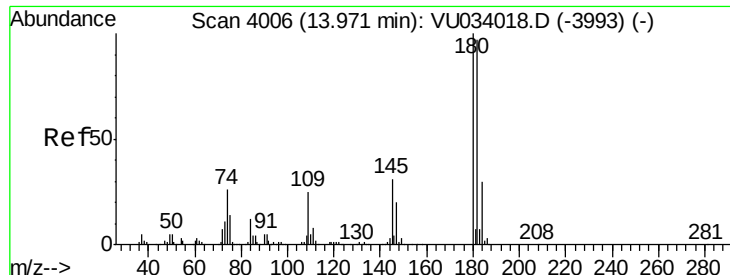


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.505 ug/l
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.02 min
 Lab File: VU034226.D
 Acq: 03 Sep 2019 15:01

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-E3-(2.25)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	104.3	48.2	144.6
145	24.9	15.5	46.5

