

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034198.D
 Acq On : 02 Sep 2019 13:39
 Operator : JC/SP
 Sample : K4544-32
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C2-(0)

Quant Time: Sep 03 05:54:09 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

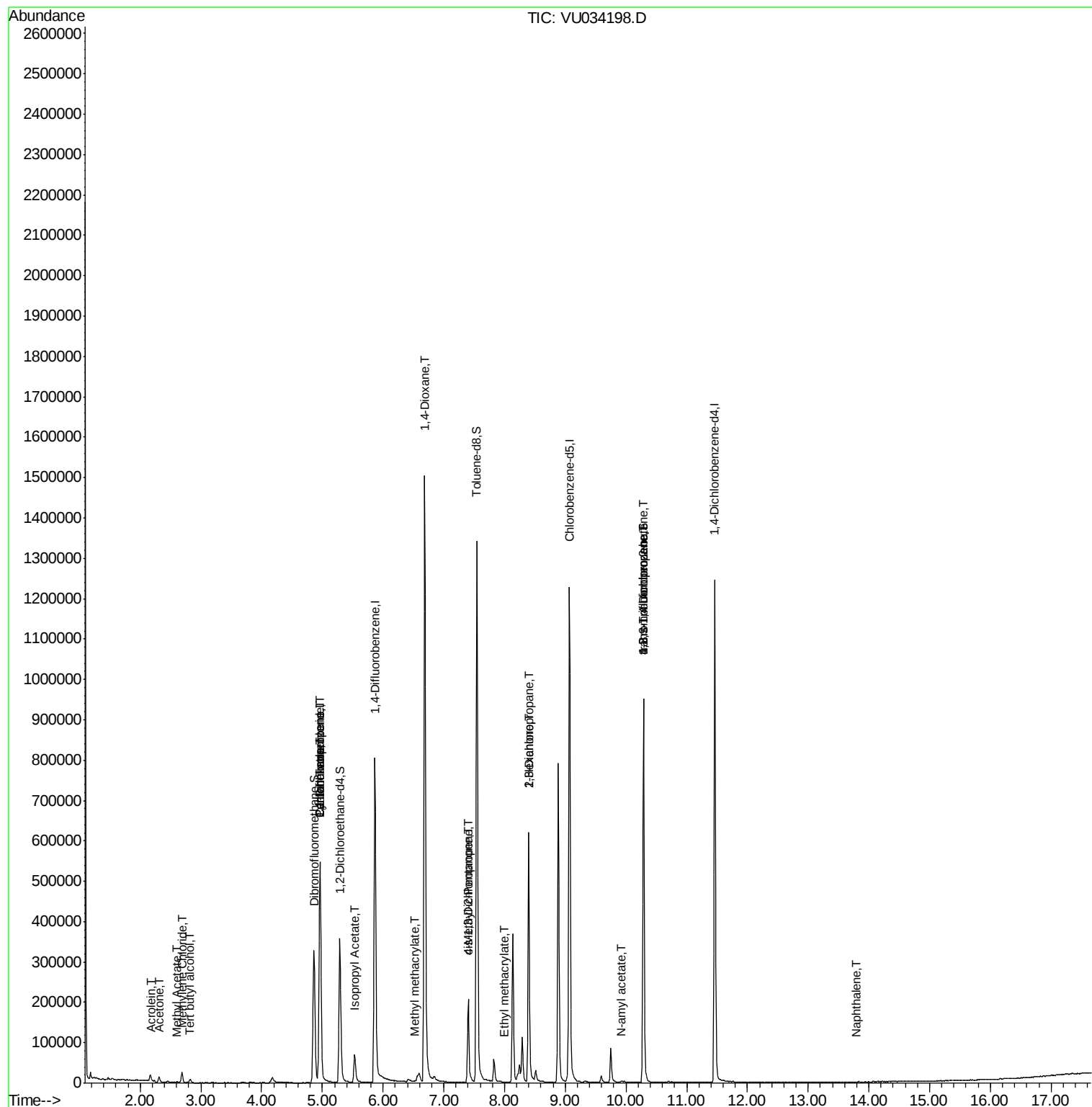
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	449218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	722208	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	714307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	344607	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	283855	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
35) Dibromofluoromethane	4.86	113	237626	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	
50) Toluene-d8	7.55	98	934975	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	
62) 4-Bromofluorobenzene	10.29	95	325358	44.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.18%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	613	Below Cal		96
5) Bromomethane	1.63	94	707	Below Cal		95
11) Tert butyl alcohol	2.82	59	5258	3.961 ug/l #		73
13) Acrolein	2.19	56	331	0.593 ug/l		98
16) Acetone	2.31	43	14917	5.079 ug/l		100
18) Methyl Acetate	2.61	43	2731	0.360 ug/l #		89
20) Methylene Chloride	2.69	84	11582	2.083 ug/l		91
31) Cyclohexane	4.96	56	8002	0.931 ug/l #		1
36) 1,1-Dichloropropene	4.96	75	31340	4.588 ug/l #		49
38) Carbon Tetrachloride	4.96	117	40447	6.134 ug/l #		17
43) Isopropyl Acetate	5.53	43	83264	7.155 ug/l		99
48) Methyl methacrylate	6.53	41	4642	0.827 ug/l #		14
49) 1,4-Dioxane	6.68	88	123	0.874 ug/l #		1
51) 4-Methyl-2-Pentanone	7.40	43	72181	8.981 ug/l #		46
54) cis-1,3-Dichloropropene	7.40	75	37926	4.363 ug/l #		64
56) Ethyl methacrylate	7.99	69	85	0.981 ug/l #		27
57) 1,3-Dichloropropane	8.40	76	6408	0.701 ug/l #		42
59) 2-Hexanone	8.40	43	85646	14.116 ug/l #		52
74) N-amyl acetate	9.92	43	2593	0.266 ug/l #		44
76) 1,2,3-Trichloropropane	10.29	75	154865	19.939 ug/l #		37
81) trans-1,4-Dichloro-2-buten	10.29	75	154865	67.140 ug/l #		100
95) Naphthalene	13.78	128	47	1.792 ug/l #		70

(#) = 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# 1204

Delta R.T. 0.00 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

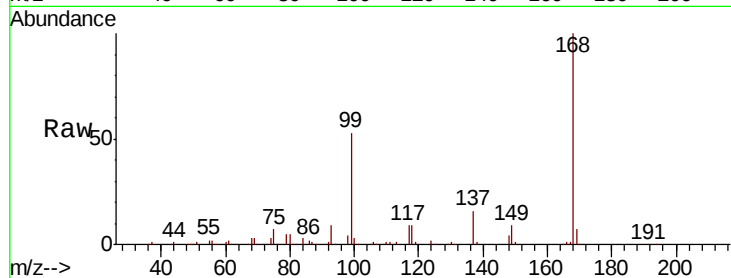
T16-17-C2-(0)

Tgt Ion:168 Resp: 449218

Ion Ratio Lower Upper

168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034198.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034198.D (-1185) (-)

4.96

200000

150000

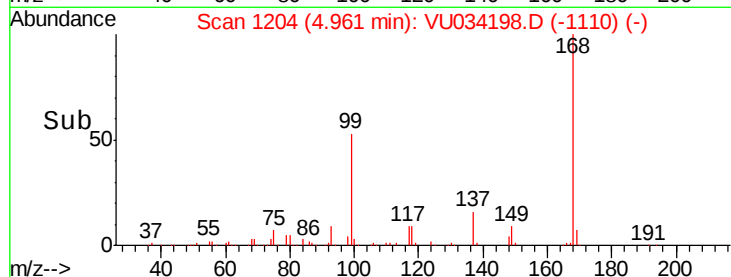
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034198.D

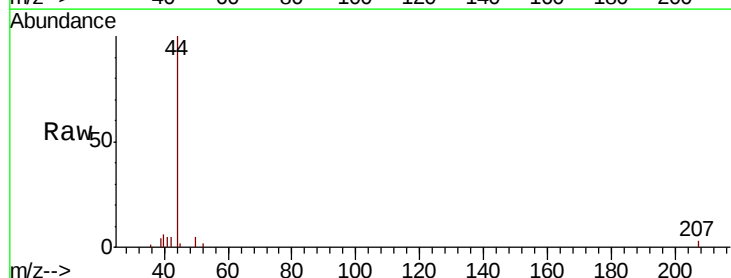
Acq: 02 Sep 2019 13:39

Tgt Ion: 50 Resp: 613

Ion Ratio Lower Upper

50 100

52 35.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034198.D (-1185) (-)

Ion 51.90 (51.60 to 52.60): VU034198.D (-1185) (-)

1.32

400

300

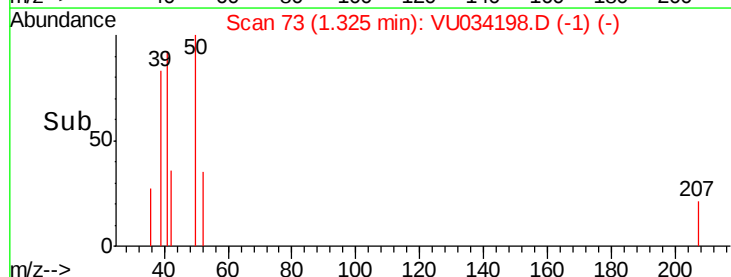
200

100

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

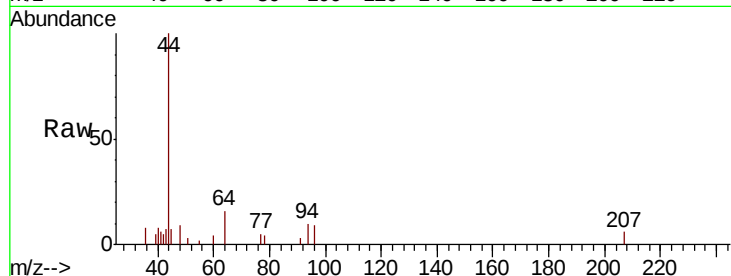
T16-17-C2-(0)

Tgt Ion: 94 Resp: 707

Ion Ratio Lower Upper

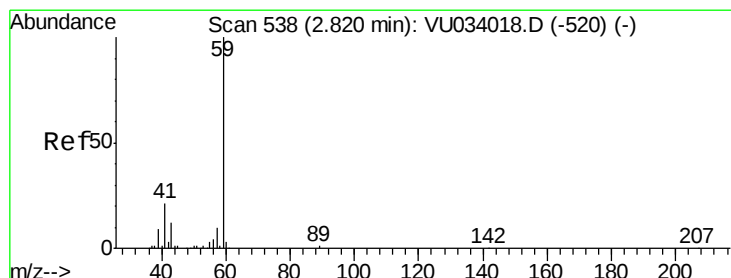
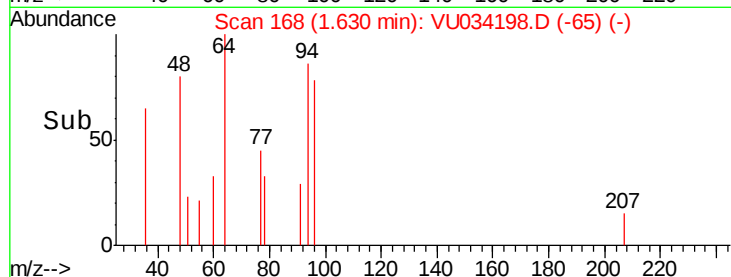
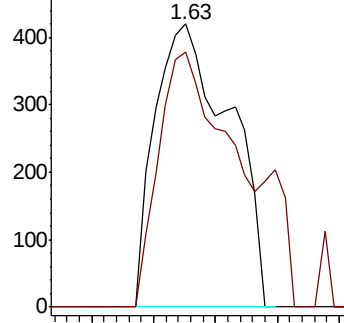
94 100

96 90.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 3.961 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034198.D

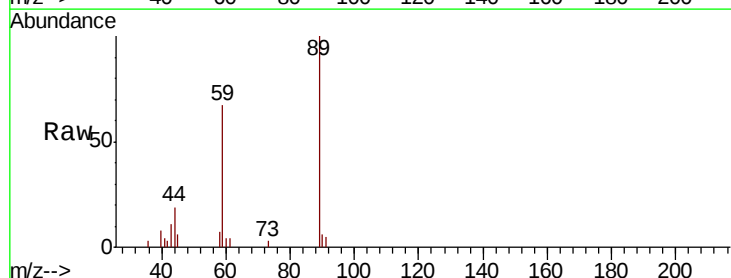
Acq: 02 Sep 2019 13:39

Tgt Ion: 59 Resp: 5258

Ion Ratio Lower Upper

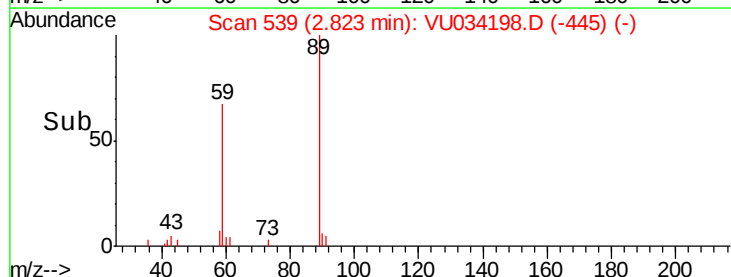
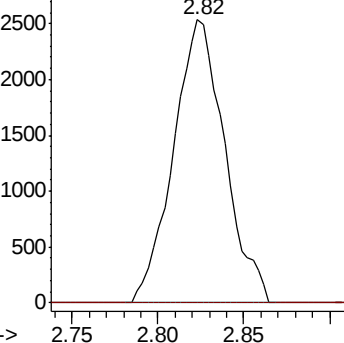
59 100

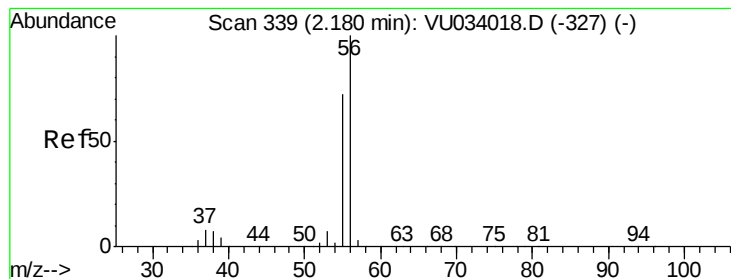
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.593 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

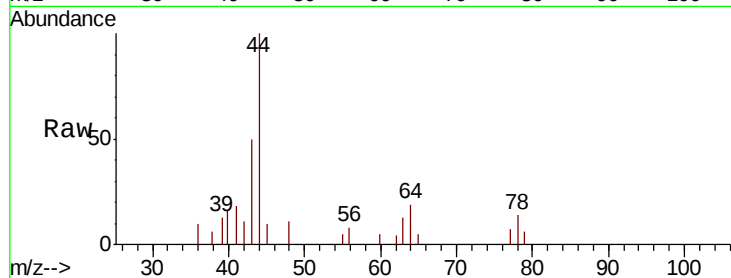
T16-17-C2-(0)

Tgt Ion: 56 Resp: 331

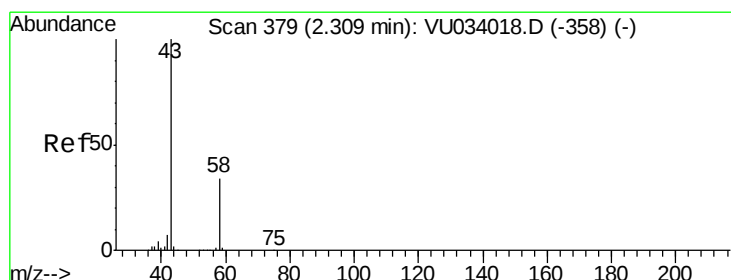
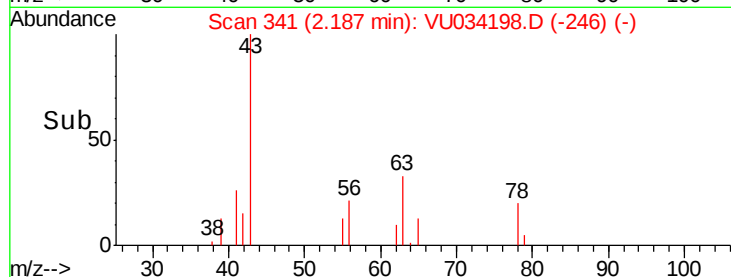
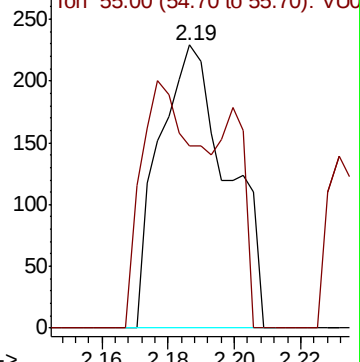
Ion Ratio Lower Upper

56 100

55 73.4 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034198.D (-327) (-)



#16

Acetone

Concen: 5.079 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034198.D

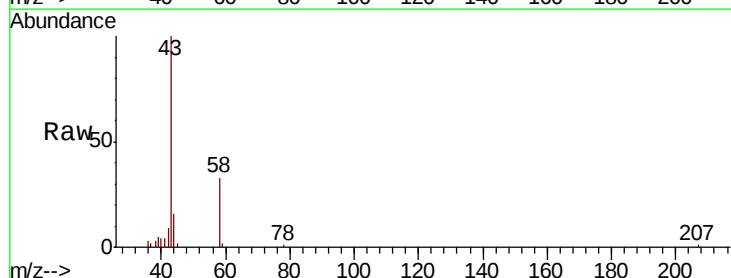
Acq: 02 Sep 2019 13:39

Tgt Ion: 43 Resp: 14917

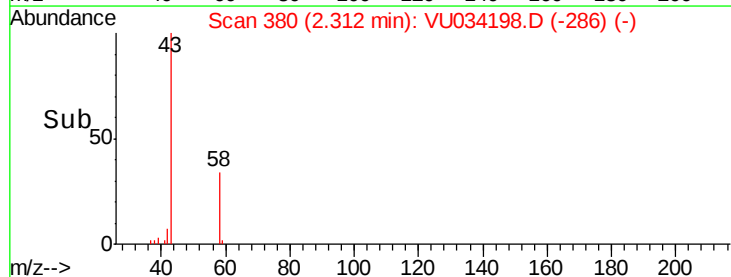
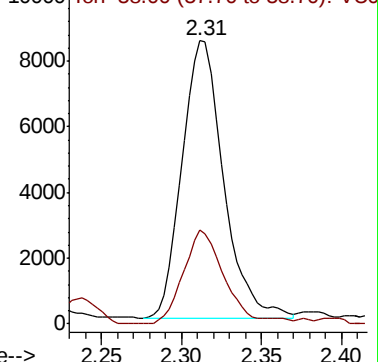
Ion Ratio Lower Upper

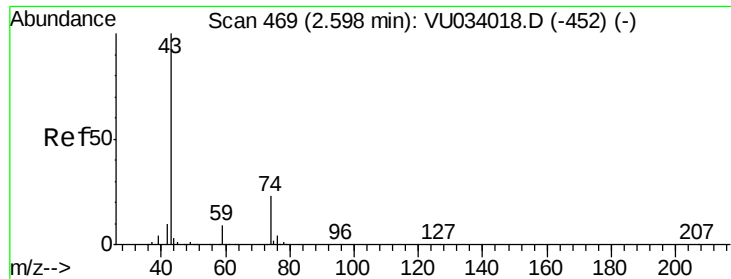
43 100

58 33.7 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034198.D (-286) (-)

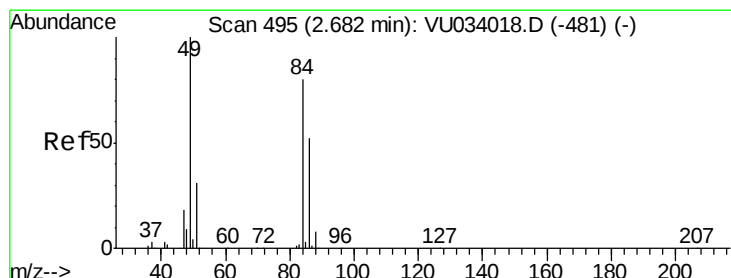
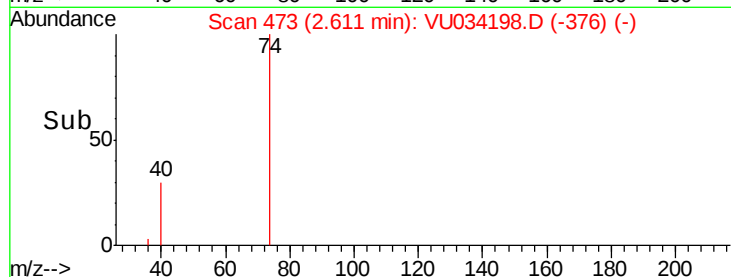
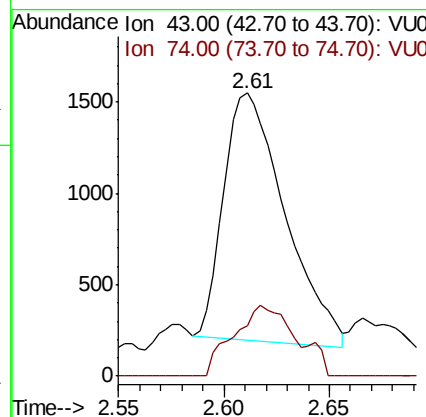
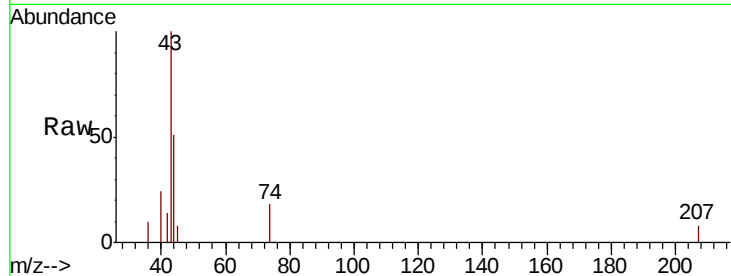




#18
Methyl Acetate
Concen: 0.360 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

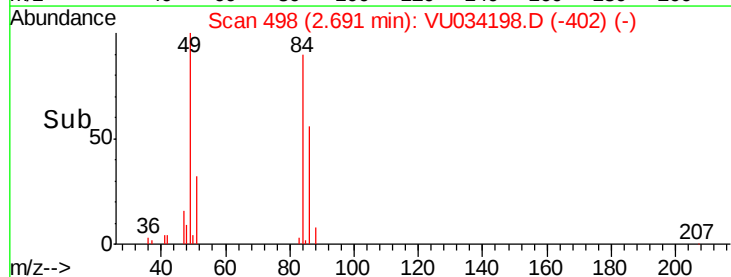
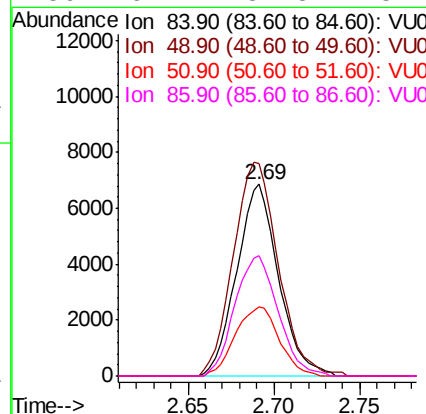
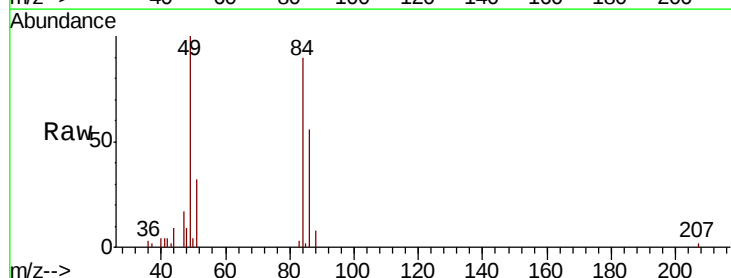
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(0)

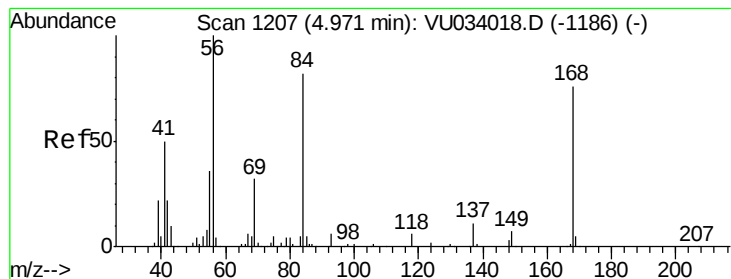
Tgt Ion: 43 Resp: 2731
Ion Ratio Lower Upper
43 100
74 29.4 19.2 28.8#



#20
Methylene Chloride
Concen: 2.083 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Tgt Ion: 84 Resp: 11582
Ion Ratio Lower Upper
84 100
49 110.9 100.2 150.4
51 35.7 30.8 46.2
86 62.4 52.5 78.7





#31

Cyclohexane

Concen: 0.931 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(0)

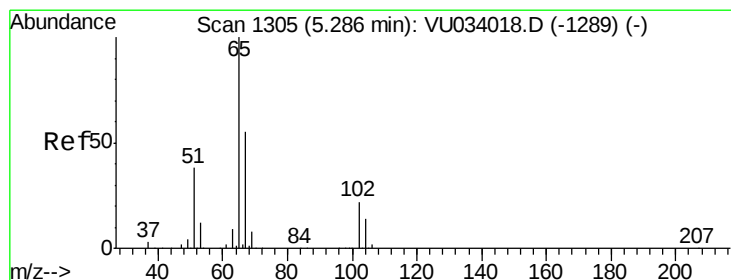
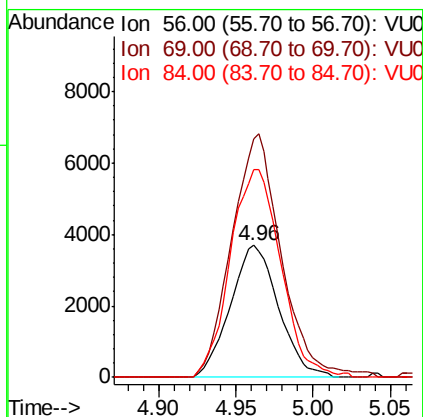
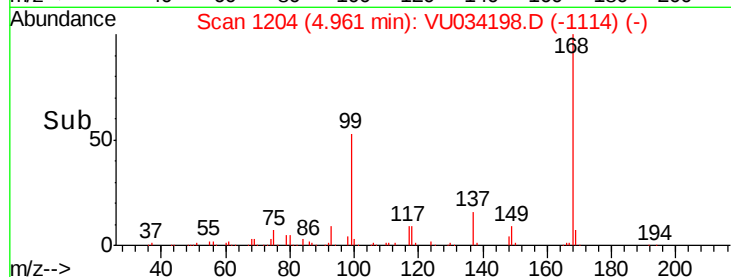
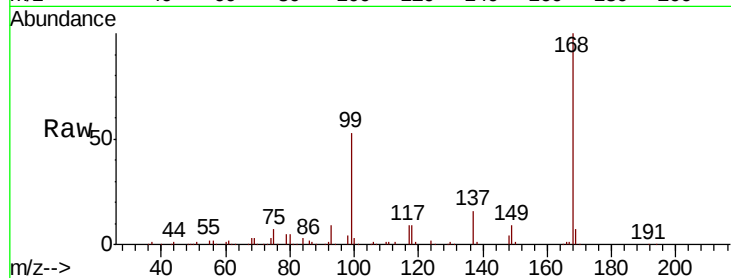
Tgt Ion: 56 Resp: 8002

Ion Ratio Lower Upper

56 100

69 180.9 25.4 38.0#

84 157.1 65.8 98.8#



#33

1,2-Dichloroethane-d4

Concen: 49.315 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034198.D

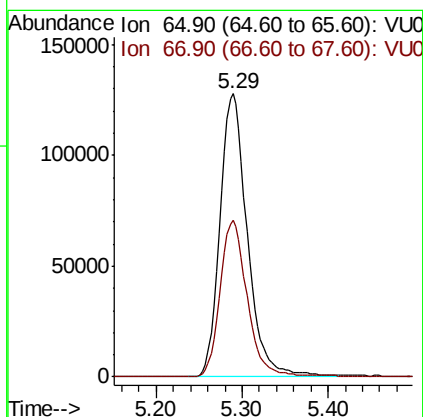
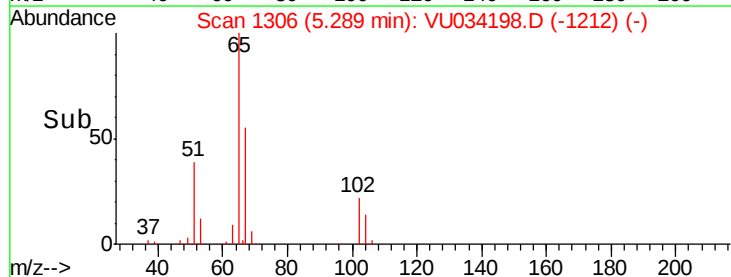
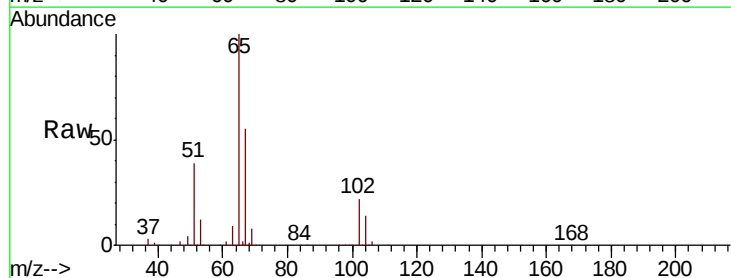
Acq: 02 Sep 2019 13:39

Tgt Ion: 65 Resp: 283855

Ion Ratio Lower Upper

65 100

67 54.7 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: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(0)

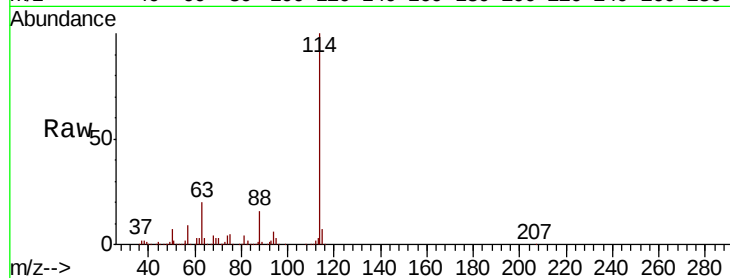
Tgt Ion:114 Resp: 722208

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.0

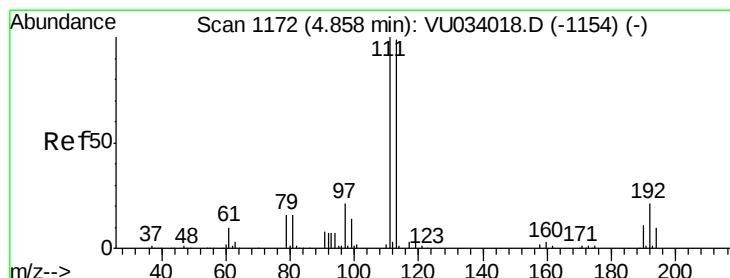
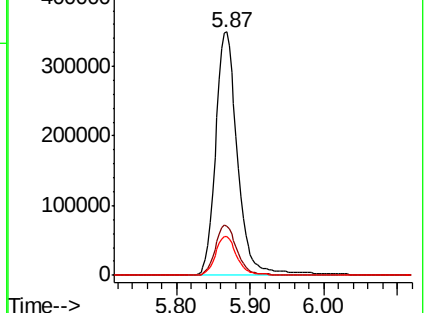
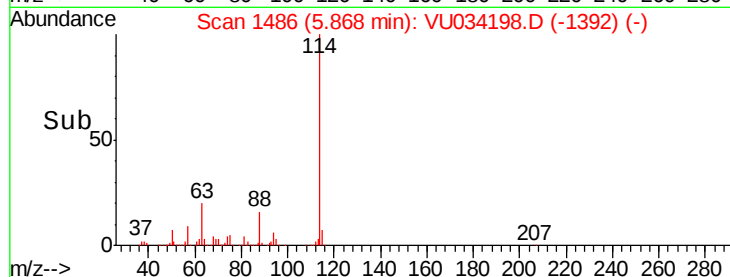
88 15.9 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.438 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

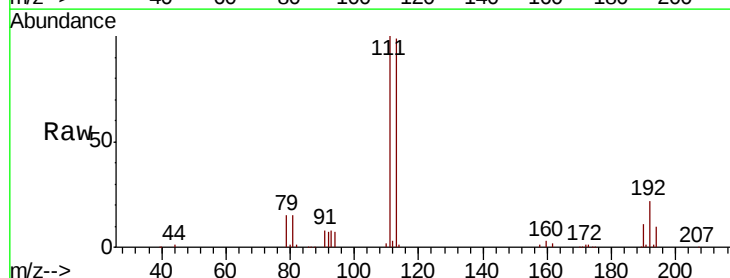
Tgt Ion:113 Resp: 237626

Ion Ratio Lower Upper

113 100

111 104.3 81.7 122.5

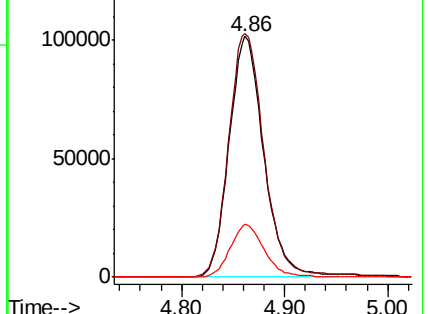
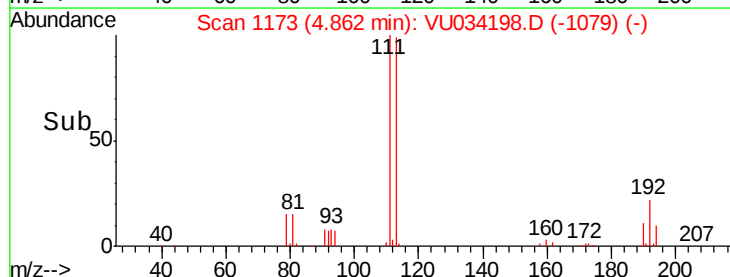
192 21.4 17.1 25.7

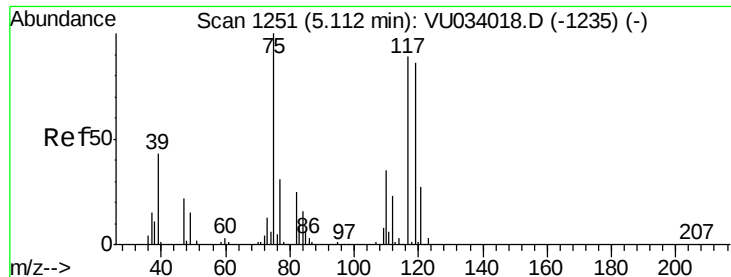


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

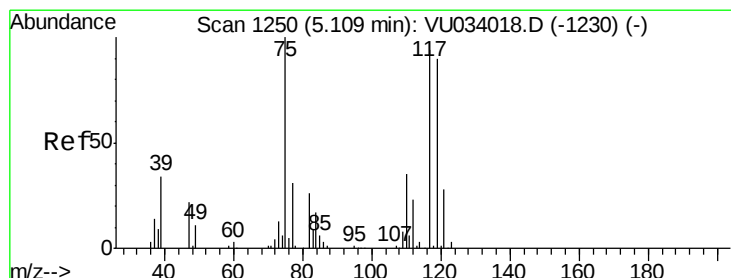
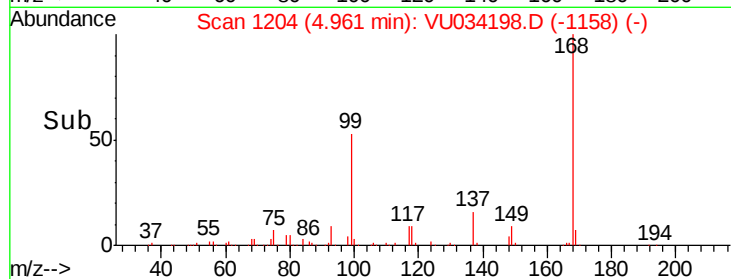
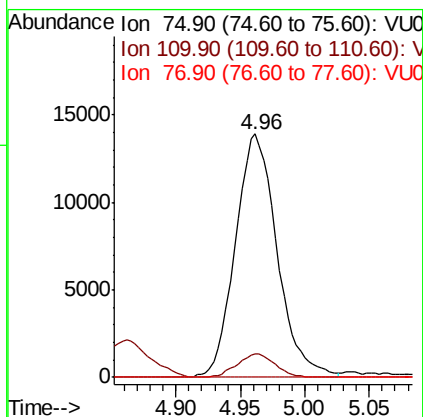
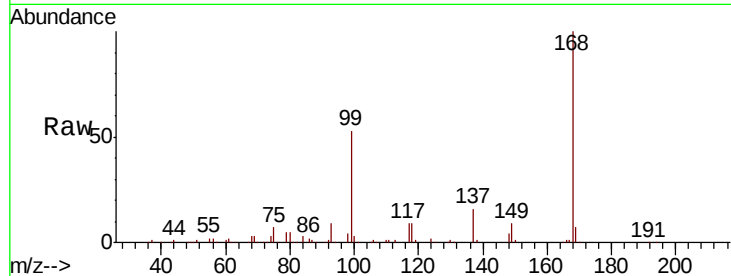




#36
 1,1-Dichloropropene
 Concen: 4.588 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034198.D
 Acq: 02 Sep 2019 13:39

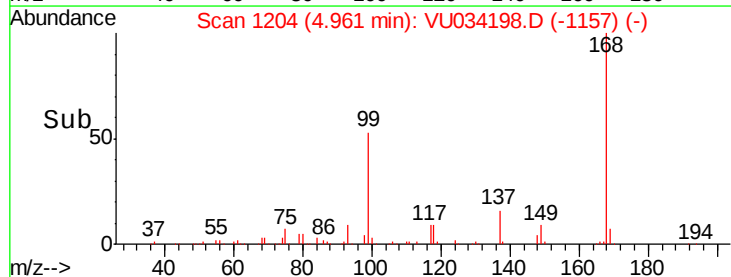
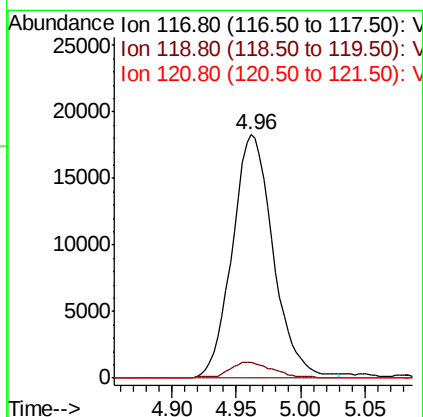
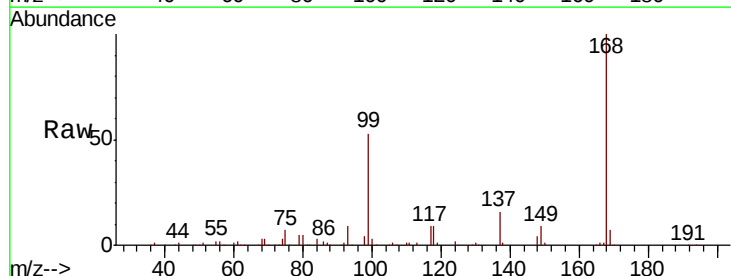
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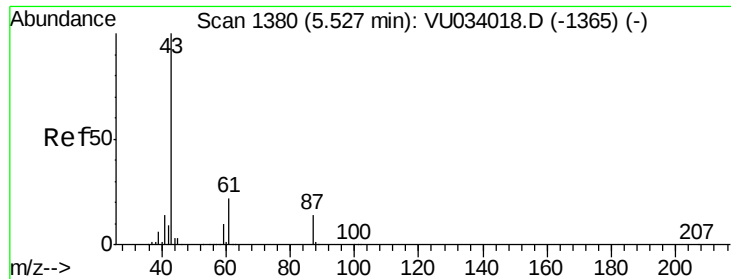
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.134 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034198.D
 Acq: 02 Sep 2019 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.0	115.4#
121	0.0	23.9	35.9#

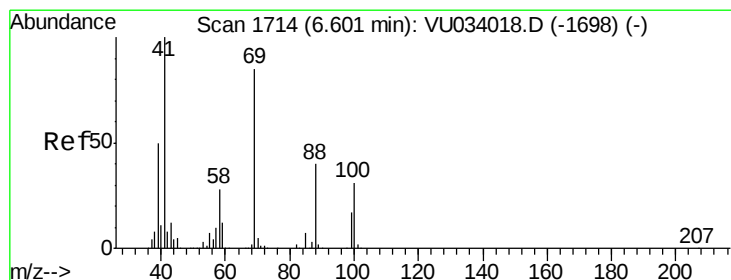
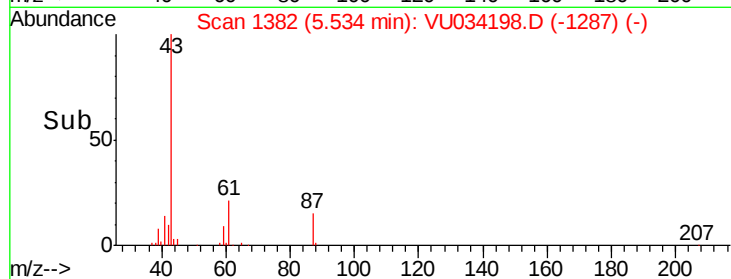
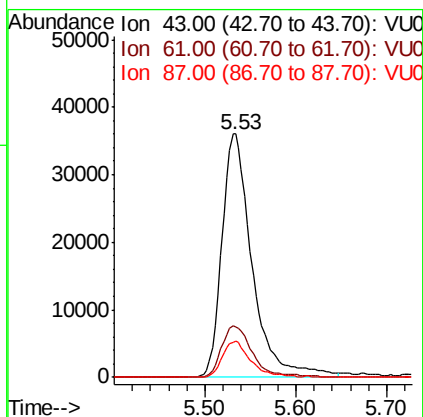
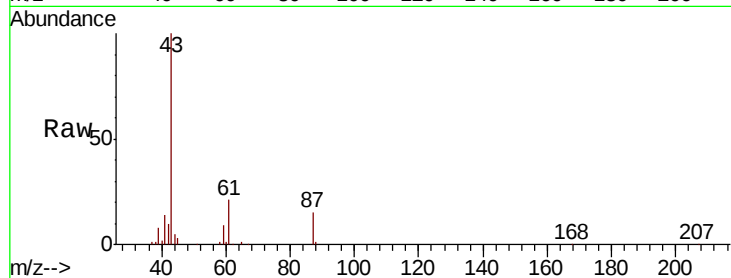




#43
Isopropyl Acetate
Concen: 7.155 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

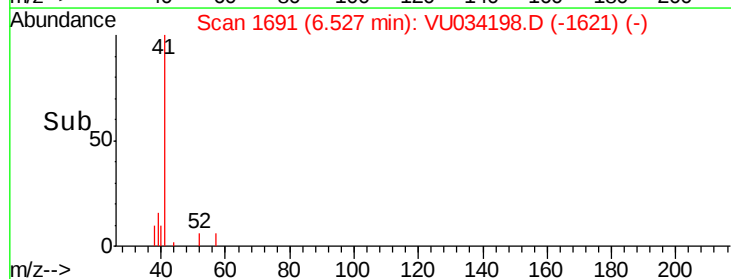
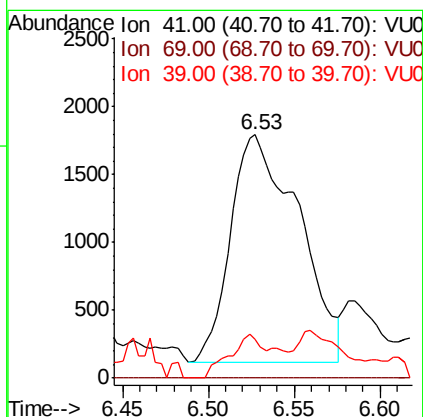
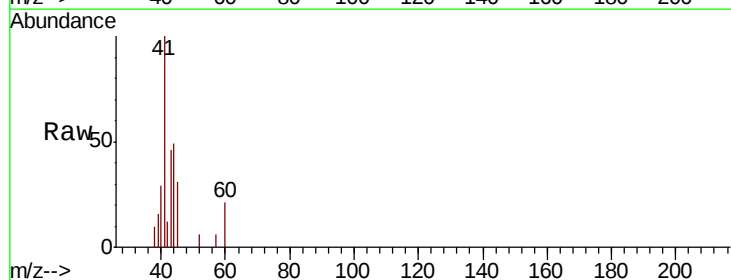
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(0)

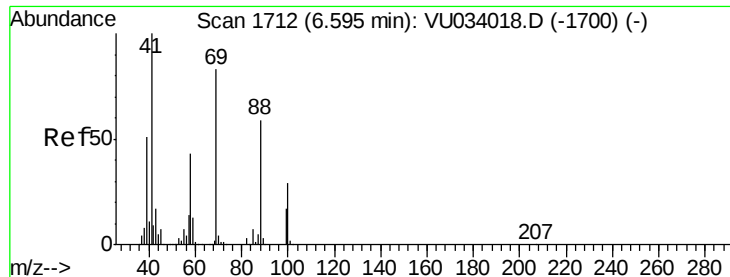
Tgt Ion: 43 Resp: 83264
Ion Ratio Lower Upper
43 100
61 21.6 17.2 25.8
87 14.0 10.8 16.2



#48
Methyl methacrylate
Concen: 0.827 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Tgt Ion: 41 Resp: 4642
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: 0.874 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.09 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(0)

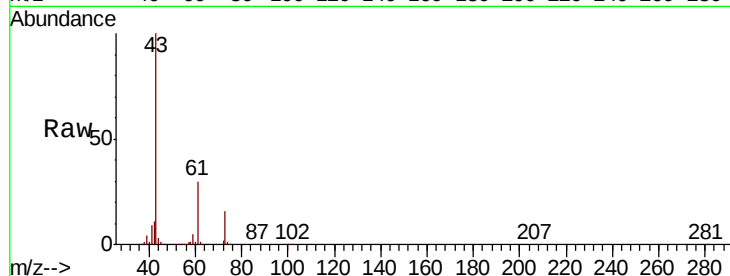
Tgt Ion: 88 Resp: 123

Ion Ratio Lower Upper

88 100

43 1212746.3 24.8 37.2#

58 6643.9 59.3 88.9#

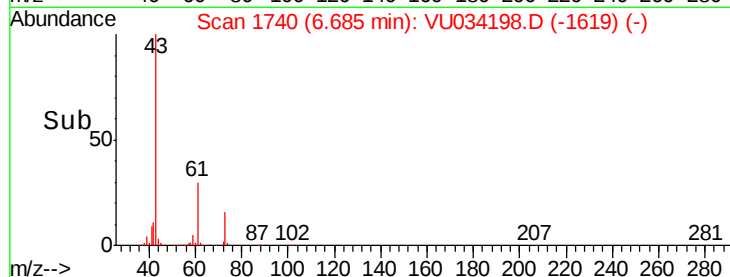


Abundance Ion 88.00 (87.70 to 88.70): VU034198.D (-1740) (-)

Ion 43.00 (42.70 to 43.70): VU034198.D (-1740) (-)

Ion 58.00 (57.70 to 58.70): VU034198.D (-1740) (-)

Time-->

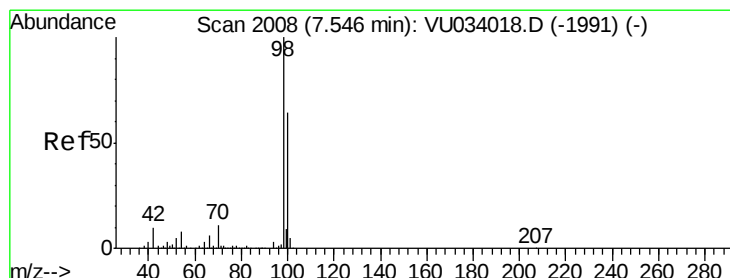


Abundance Ion 88.00 (87.70 to 88.70): VU034198.D (-1740) (-)

Ion 43.00 (42.70 to 43.70): VU034198.D (-1740) (-)

Ion 58.00 (57.70 to 58.70): VU034198.D (-1740) (-)

Time-->



#50

Toluene-d8

Concen: 49.849 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034198.D

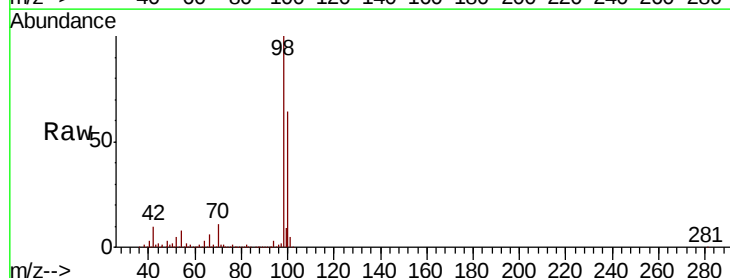
Acq: 02 Sep 2019 13:39

Tgt Ion: 98 Resp: 934975

Ion Ratio Lower Upper

98 100

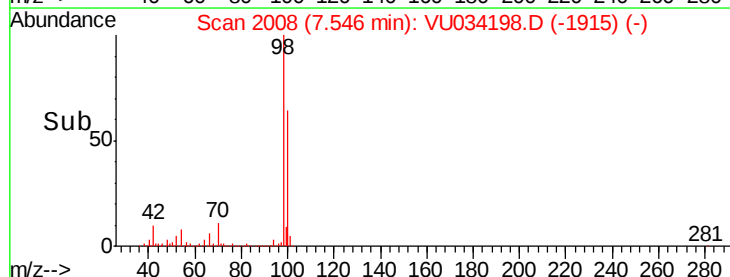
100 64.8 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034198.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034198.D (-2008) (-)

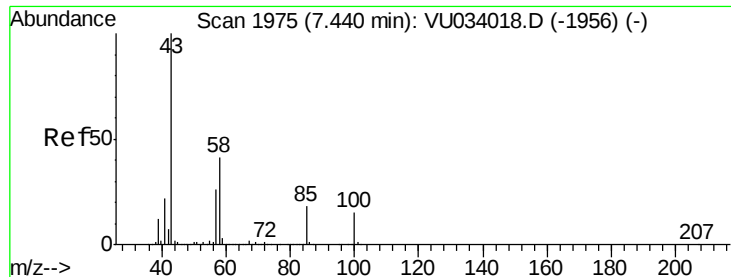
Time-->



Abundance Ion 98.00 (97.70 to 98.70): VU034198.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034198.D (-2008) (-)

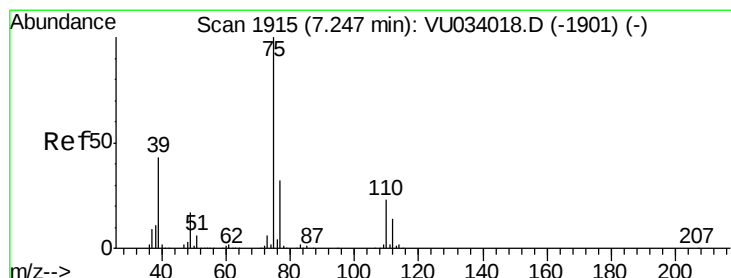
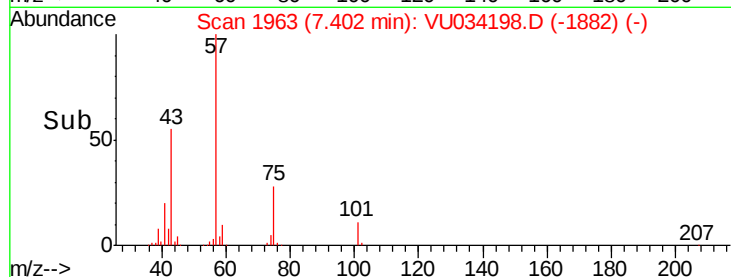
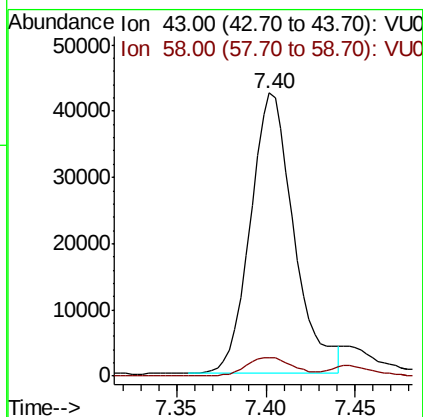
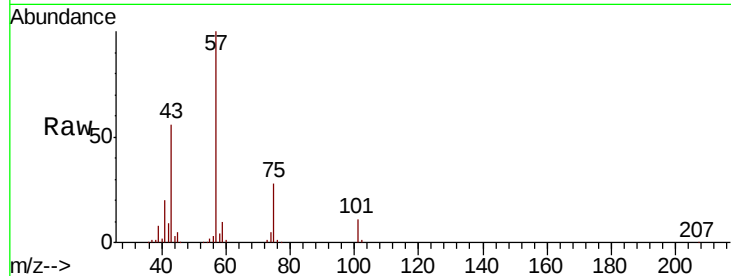
Time-->



#51
 4-Methyl-2-Pentanone
 Concen: 8.981 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034198.D
 Acq: 02 Sep 2019 13:39

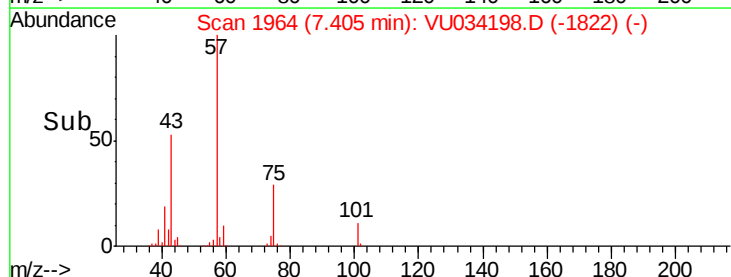
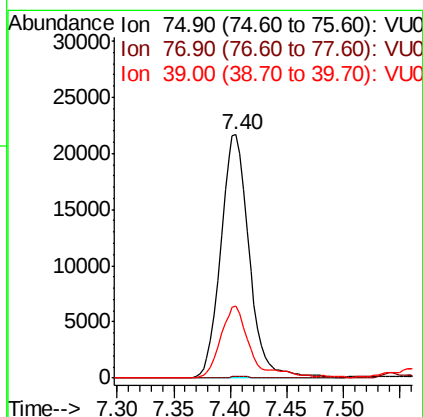
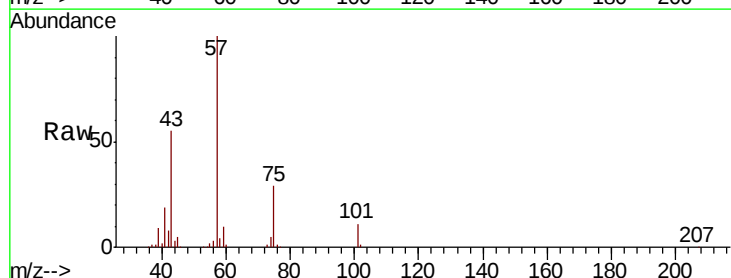
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C2-(0)

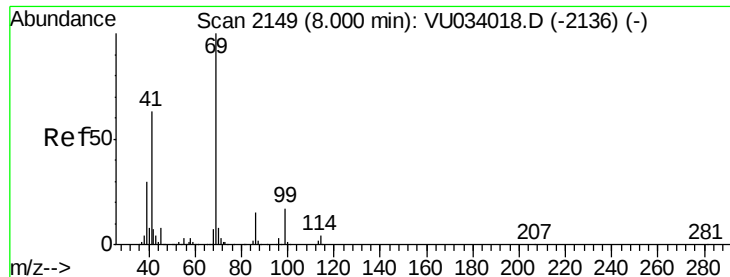
Tgt Ion: 43 Resp: 72181
 Ion Ratio Lower Upper
 43 100
 58 7.0 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.363 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034198.D
 Acq: 02 Sep 2019 13:39

Tgt Ion: 75 Resp: 37926
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 29.8 34.6 51.8#

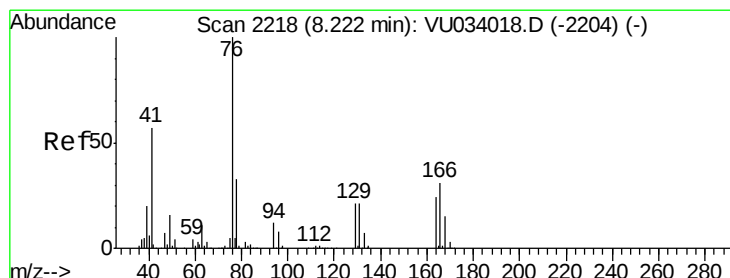
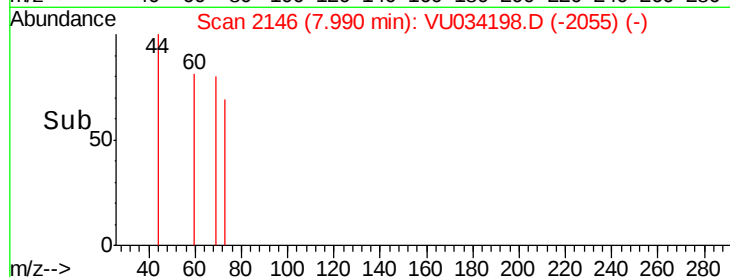
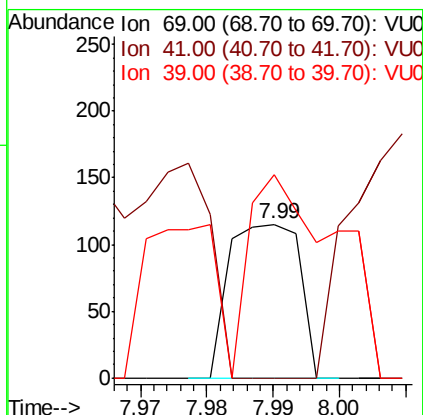
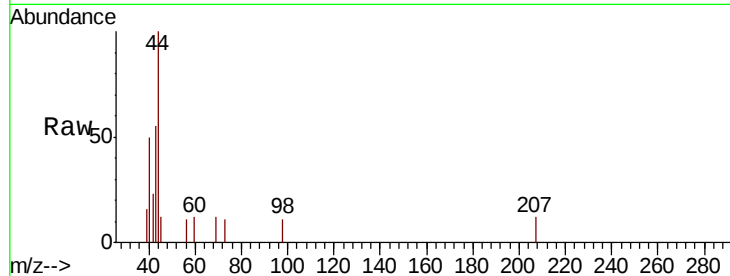




#56
Ethyl methacrylate
Concen: 0.981 ug/l
RT: 7.99 min Scan# 2146
Delta R.T. -0.01 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

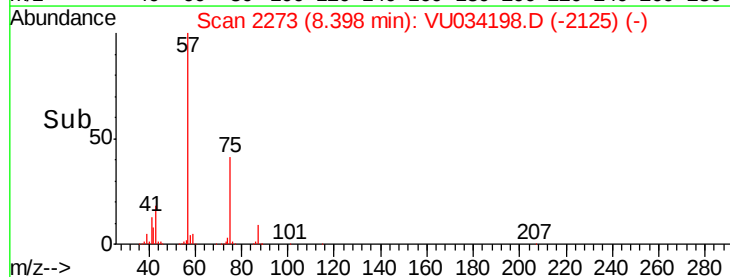
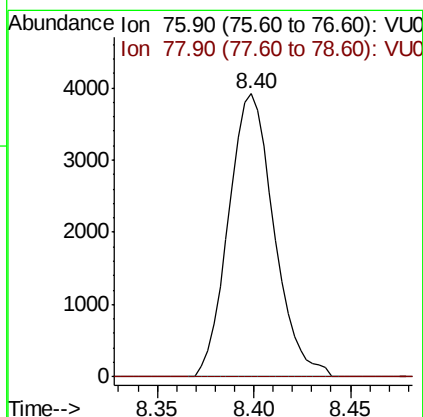
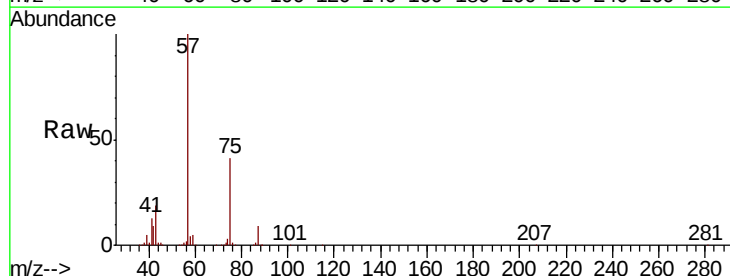
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(0)

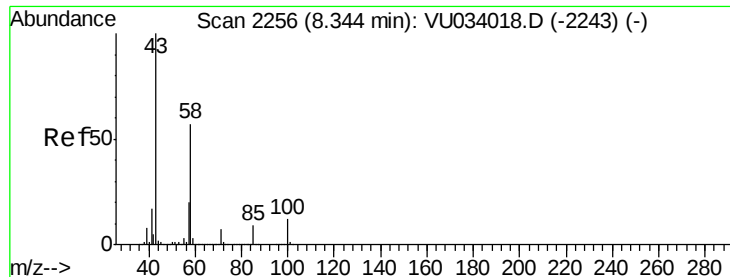
Tgt Ion: 69 Resp: 85
Ion Ratio Lower Upper
69 100
41 0.0 50.7 76.1#
39 0.0 24.2 36.2#



#57
1,3-Dichloropropane
Concen: 0.701 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.18 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Tgt Ion: 76 Resp: 6408
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

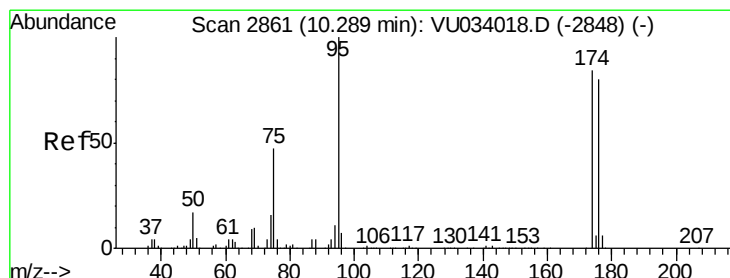
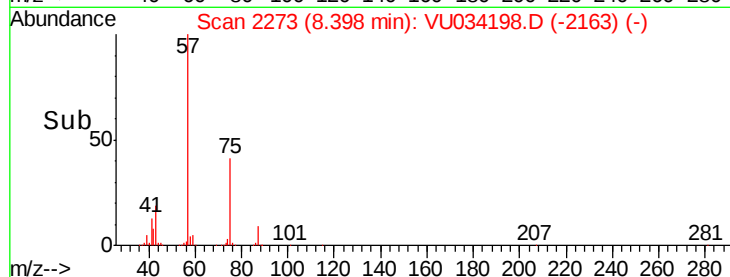
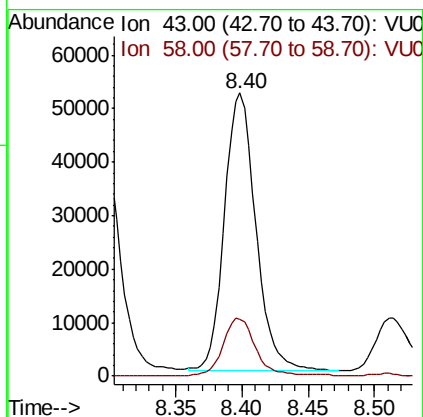
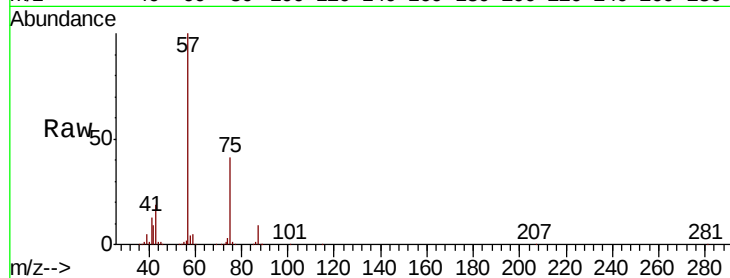




#59
2-Hexanone
Concen: 14.116 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

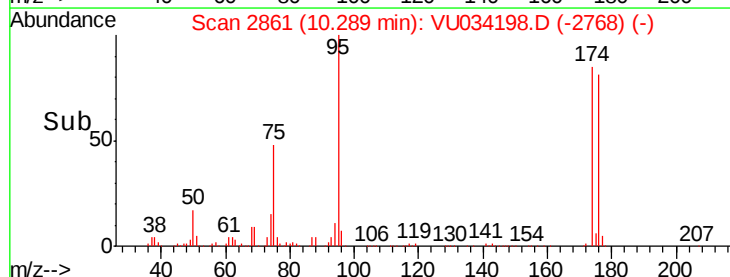
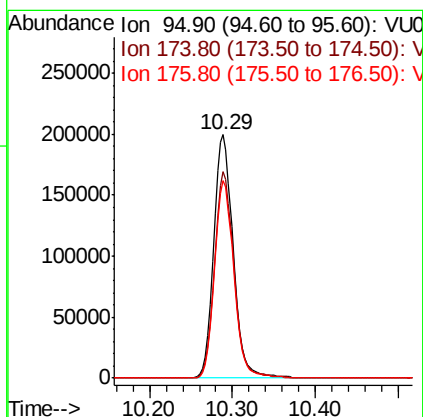
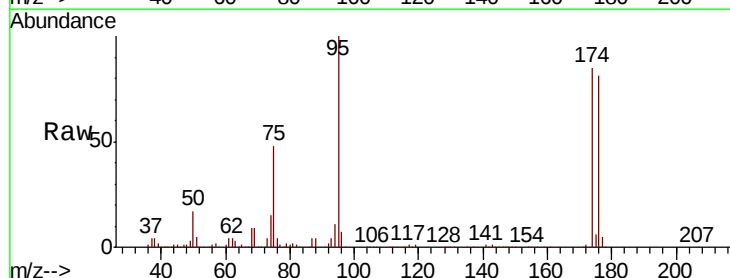
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(0)

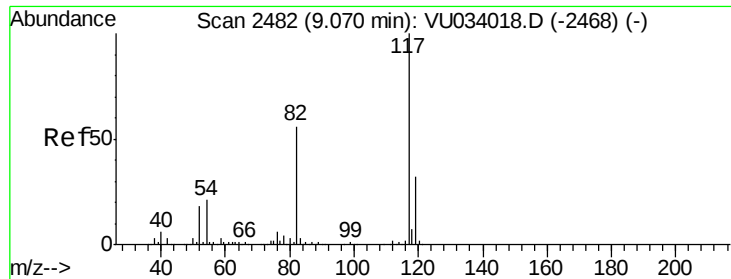
Tgt Ion: 43 Resp: 85646
Ion Ratio Lower Upper
43 100
58 21.7 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 44.594 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Tgt Ion: 95 Resp: 325358
Ion Ratio Lower Upper
95 100
174 84.7 0.0 168.8
176 80.8 0.0 161.8

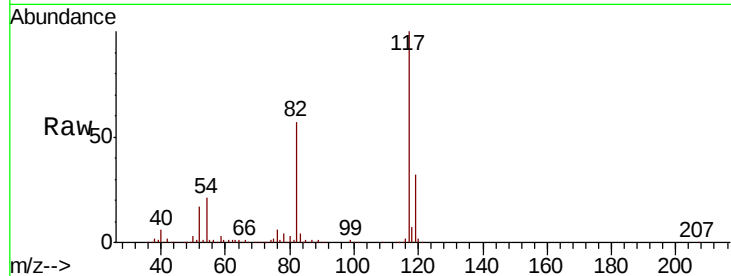




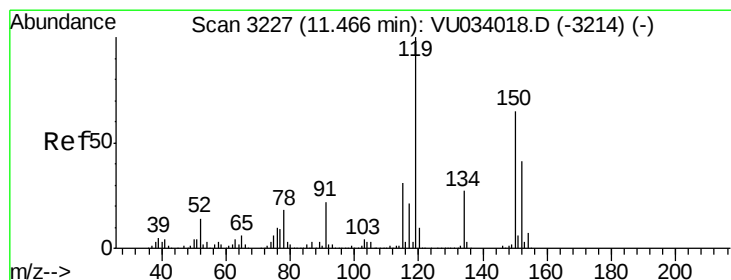
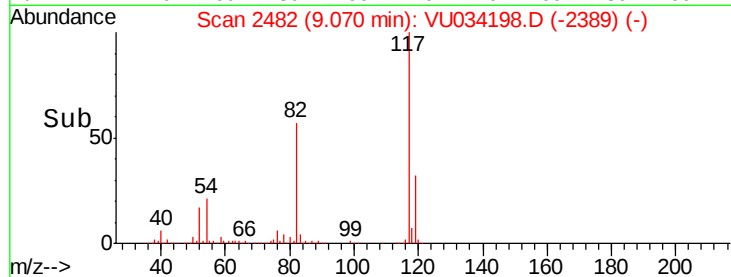
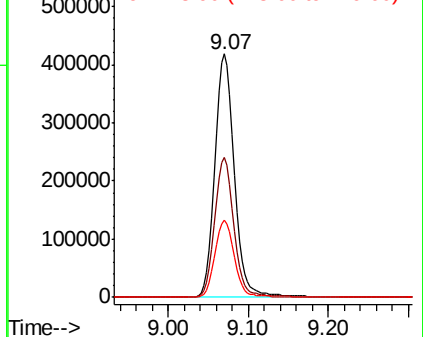
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(0)

Tgt Ion:117 Resp: 714307
Ion Ratio Lower Upper
117 100
82 57.2 45.1 67.7
119 31.5 25.4 38.0

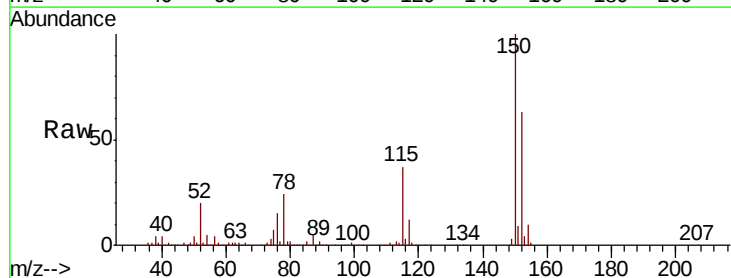


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

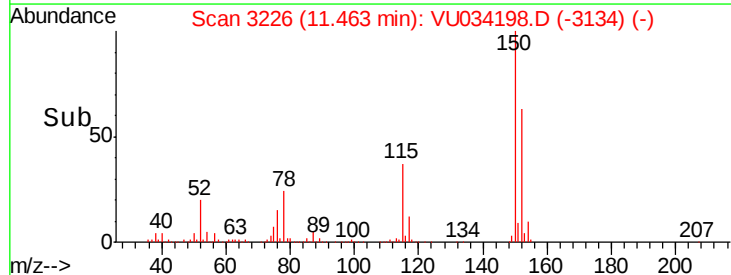
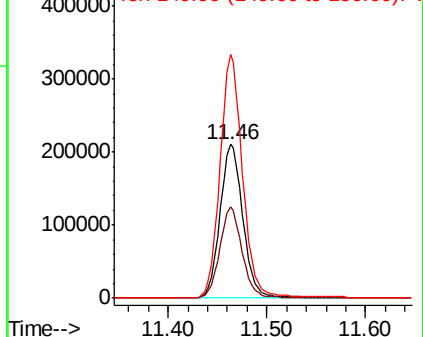


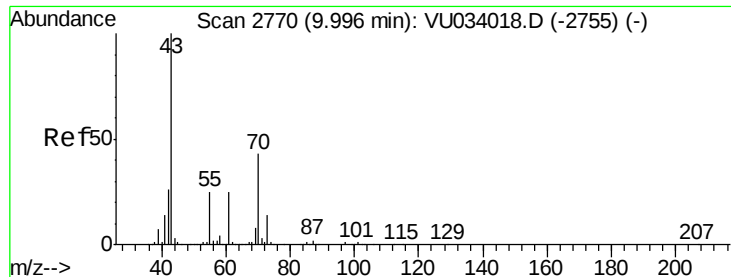
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Tgt Ion:152 Resp: 344607
Ion Ratio Lower Upper
152 100
115 57.9 41.1 123.3
150 155.4 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

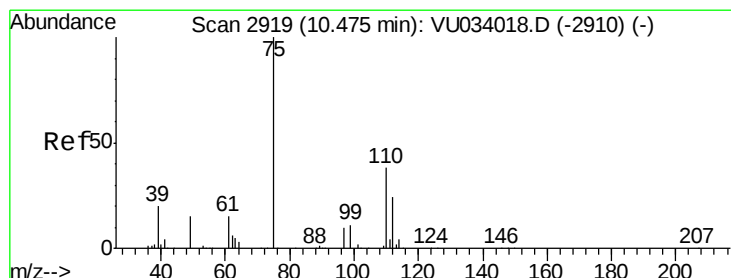
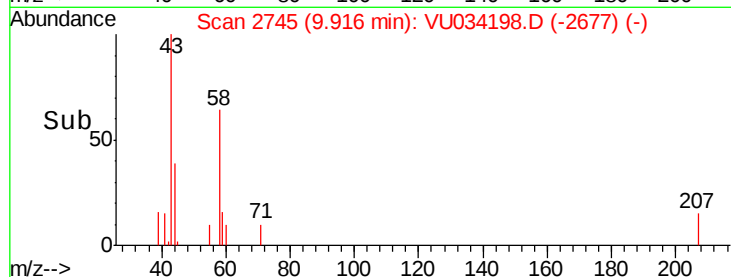
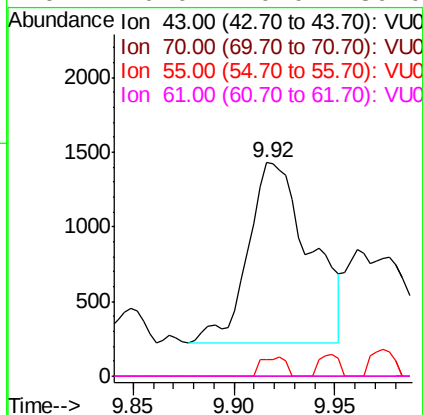
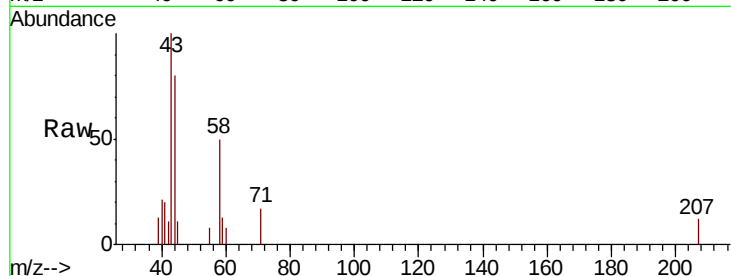




#74
N-ethyl acetate
Concen: 0.266 ug/l
RT: 9.92 min Scan# 2745
Delta R.T. -0.08 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

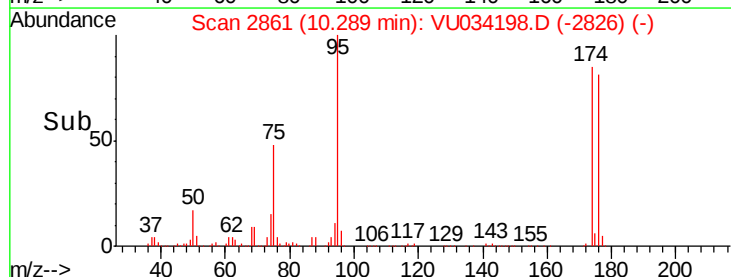
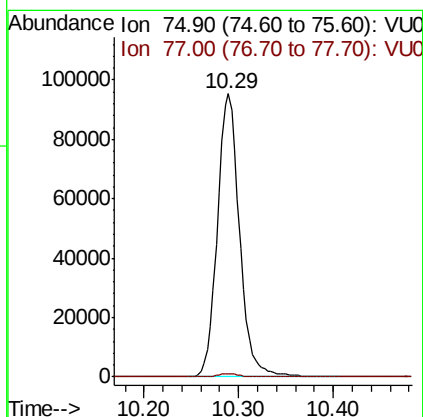
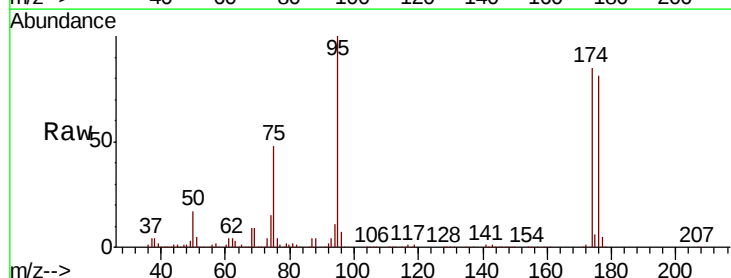
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(0)

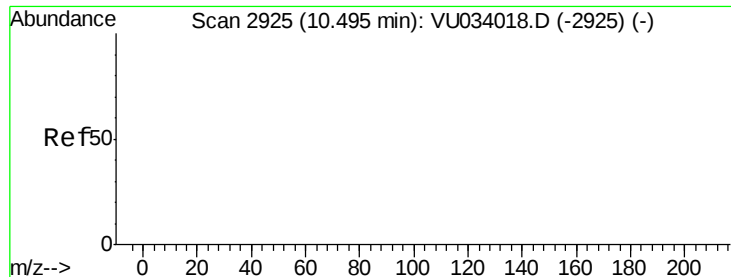
Tgt Ion:	43	Resp:	2593
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.2	52.8#
55	4.2	20.5	30.7#
61	0.0	20.0	30.0#



#76
1,2,3-Trichloropropane
Concen: 19.939 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034198.D
Acq: 02 Sep 2019 13:39

Tgt Ion:	75	Resp:	154865
Ion	Ratio	Lower	Upper
75	100		
77	1.2	20.1	60.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 67.140 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(0)

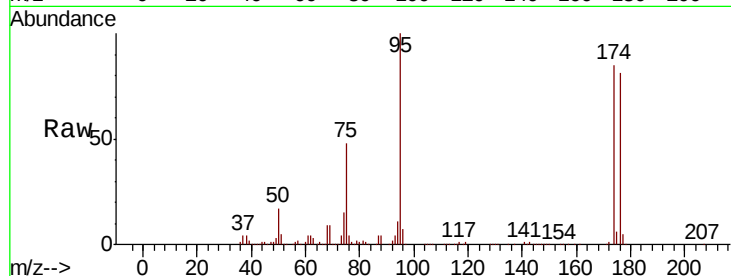
Tgt Ion: 75 Resp: 154865

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

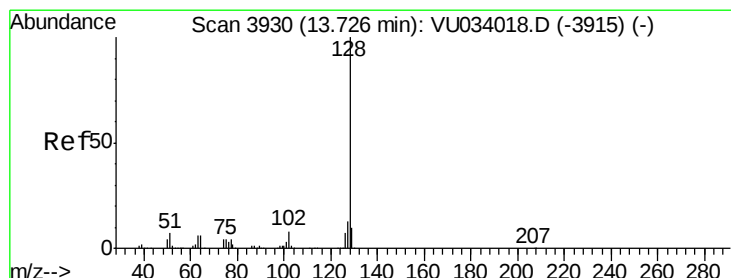
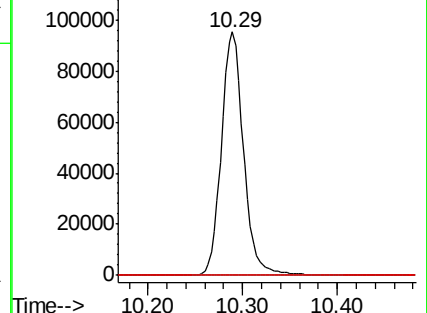
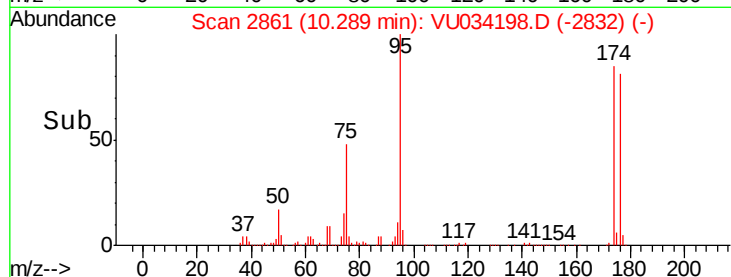
89 0.0 0.0 0.0



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

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

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



#95

Naphthalene

Concen: 1.792 ug/l

RT: 13.78 min Scan# 3946

Delta R.T. 0.05 min

Lab File: VU034198.D

Acq: 02 Sep 2019 13:39

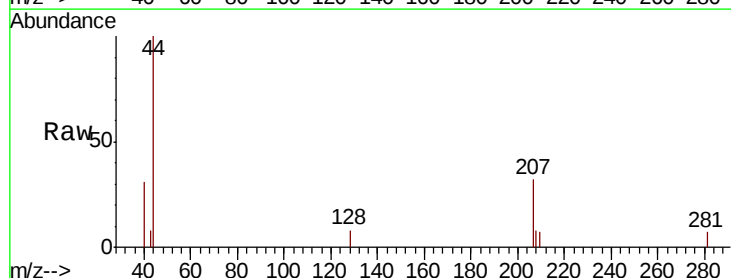
Tgt Ion: 128 Resp: 47

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VU034018.D (-3915) (-)

Ion 127.00 (126.70 to 127.70): VU034018.D (-3915) (-)

Ion 129.00 (128.70 to 129.70): VU034018.D (-3915) (-)

