

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU082919\
 Data File : VU034024.D
 Acq On : 28 Aug 2019 15:46
 Operator : JC/SP
 Sample : VU0829WBL01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0829WBL01

Quant Time: Aug 29 04:15:59 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	515272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	794340	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	739891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	332939	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	307164	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
35) Dibromofluoromethane	4.86	113	252355	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
50) Toluene-d8	7.55	98	983961	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
62) 4-Bromofluorobenzene	10.29	95	340649	42.45	ug/l	0.00
Spiked Amount			Recovery	=	84.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	3616	Below Cal	#	86
5) Bromomethane	1.60	94	2685	Below Cal		95
11) Tert butyl alcohol	2.82	59	782	0.514	ug/l #	73
13) Acrolein	2.18	56	298	0.465	ug/l #	53
16) Acetone	2.31	43	808	0.240	ug/l #	82
17) Carbon Disulfide	2.46	76	3460	0.212	ug/l	97
18) Methyl Acetate	2.61	43	2514	0.289	ug/l	93
31) Cyclohexane	4.95	56	9353	0.949	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	37443	4.983	ug/l #	49
38) Carbon Tetrachloride	4.96	117	47359	6.530	ug/l #	16
56) Ethyl methacrylate	8.03	69	67	0.978	ug/l #	81
76) 1,2,3-Trichloropropane	10.29	75	164266	21.891	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	164266	73.712	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	145	1.133	ug/l #	1
95) Naphthalene	13.79	128	1229	1.847	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VU034024.D

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MSVOA_U

ClientSampleId :

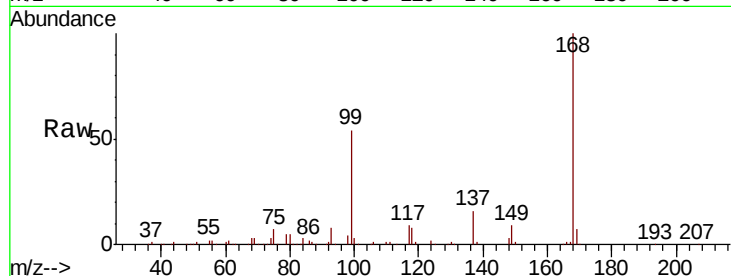
VU0829WBL01

Tgt Ion:168 Resp: 515272

Ion Ratio Lower Upper

168 100

99 53.9 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

250000

200000

150000

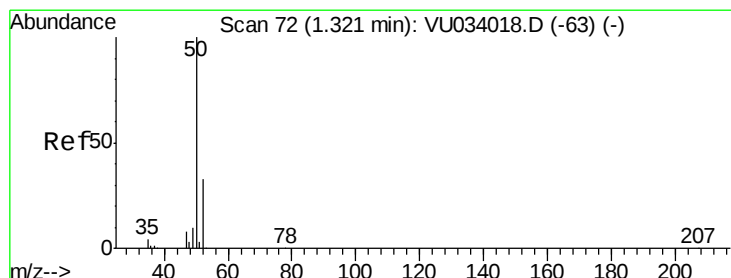
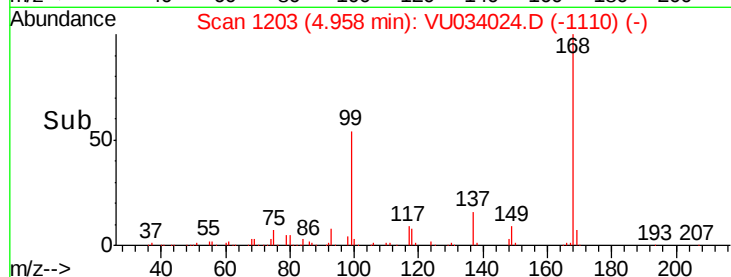
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034024.D

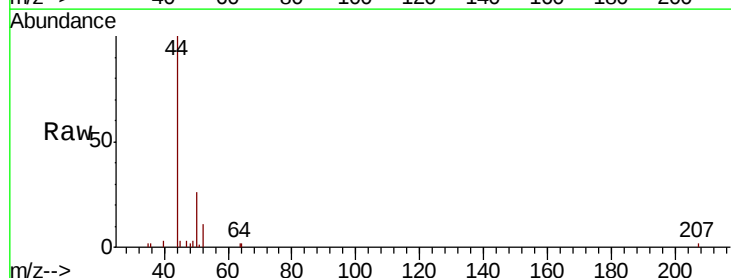
Acq: 28 Aug 2019 15:46

Tgt Ion: 50 Resp: 3616

Ion Ratio Lower Upper

50 100

52 40.7 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

3000

2500

2000

1500

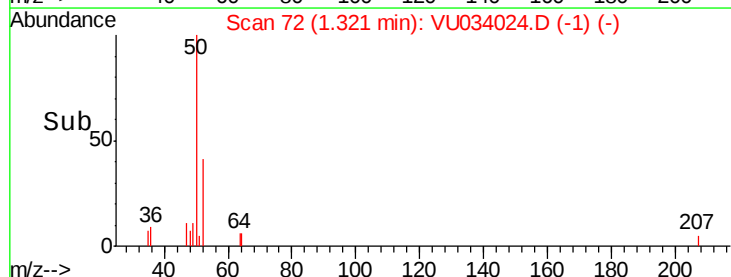
1000

500

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

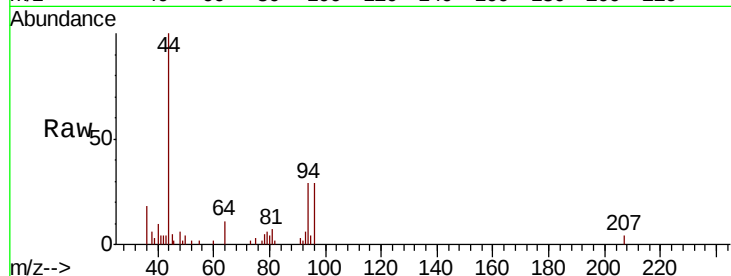
VU0829WBL01

Tgt Ion: 94 Resp: 2685

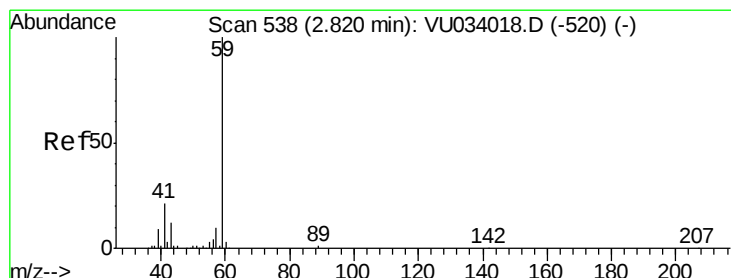
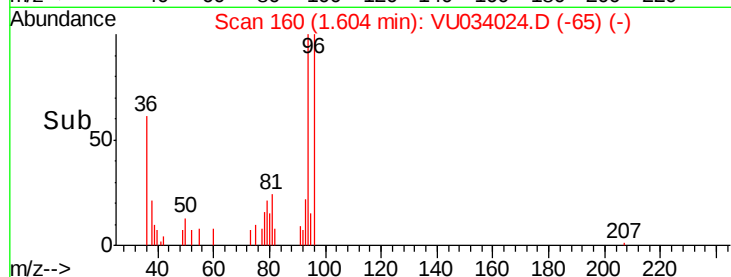
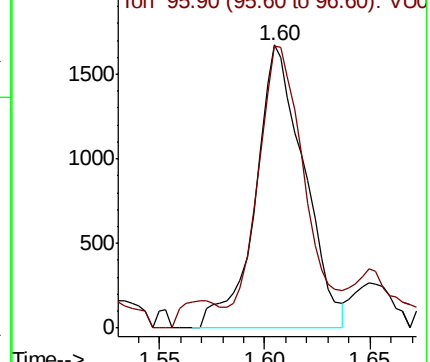
Ion Ratio Lower Upper

94 100

96 90.5 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034024.D (-160) (-)



#11

Tert butyl alcohol

Concen: 0.514 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034024.D

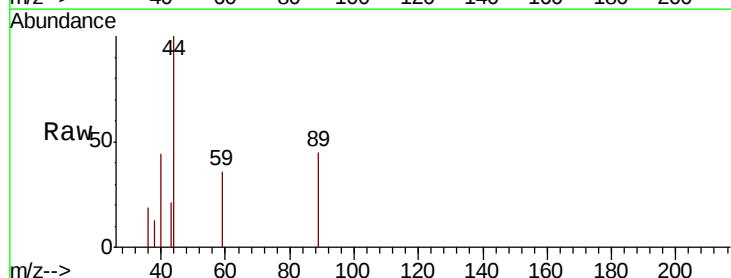
Acq: 28 Aug 2019 15:46

Tgt Ion: 59 Resp: 782

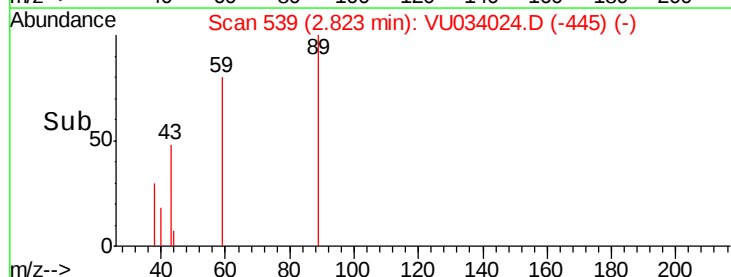
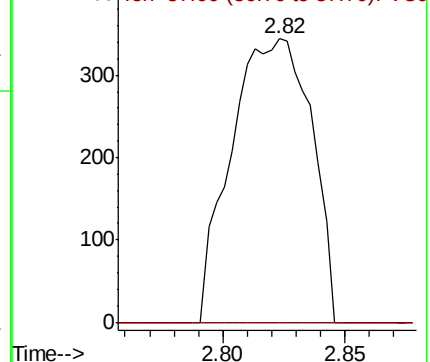
Ion Ratio Lower Upper

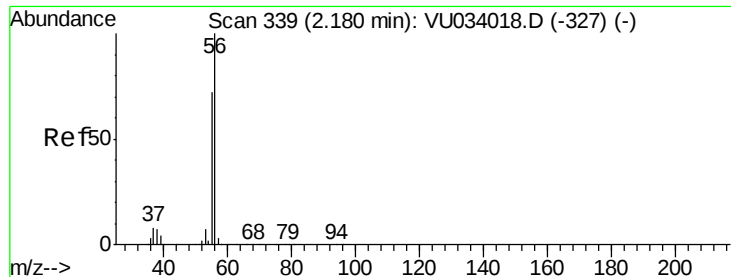
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034024.D (-539) (-)





#13

Acrolein

Concen: 0.465 ug/l

RT: 2.18 min Scan# 338

Delta R.T. -0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

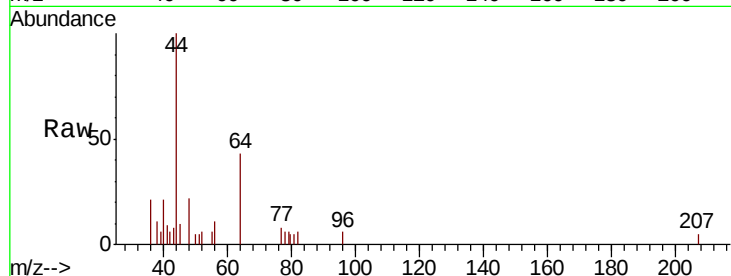
VU0829WBL01

Tgt Ion: 56 Resp: 298

Ion Ratio Lower Upper

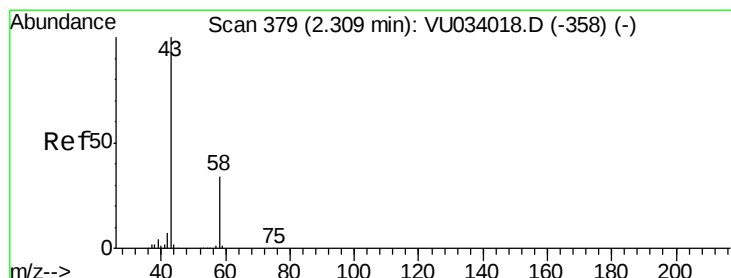
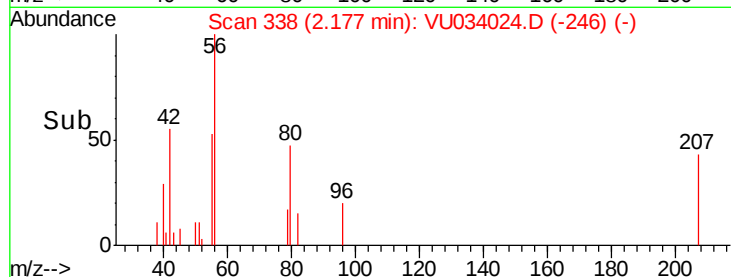
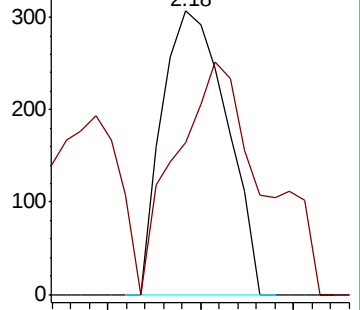
56 100

55 110.1 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) (-)



#16

Acetone

Concen: 0.240 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034024.D

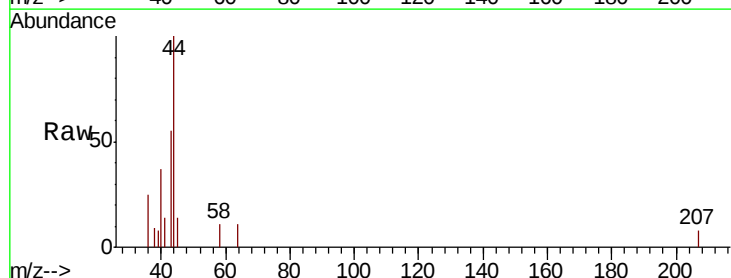
Acq: 28 Aug 2019 15:46

Tgt Ion: 43 Resp: 808

Ion Ratio Lower Upper

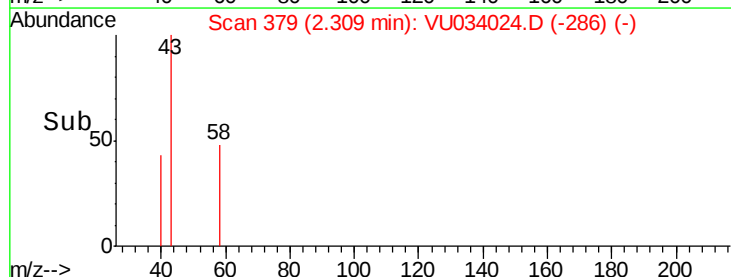
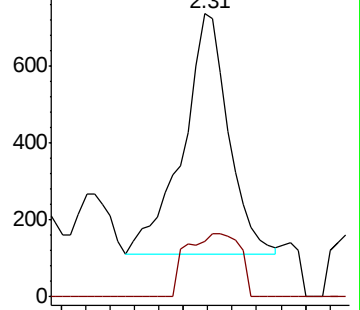
43 100

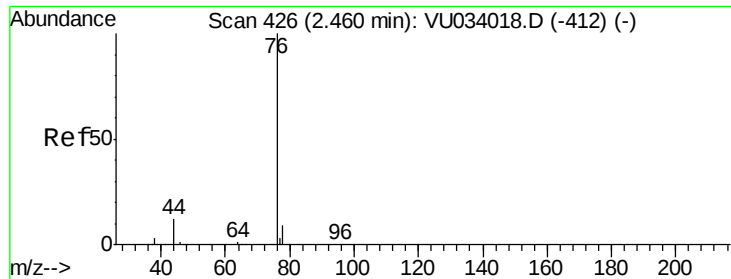
58 23.4 26.8 40.2#



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

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





#17

Carbon Disulfide

Concen: 0.212 ug/l

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

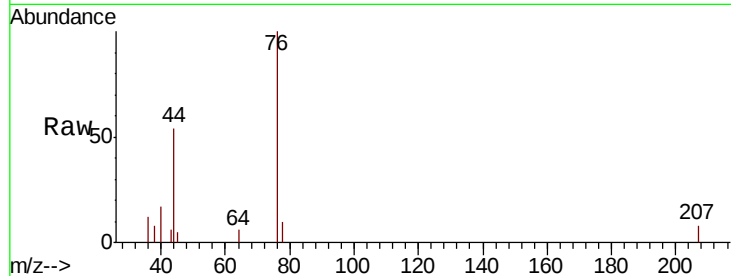
VU0829WBL01

Tgt Ion: 76 Resp: 3460

Ion Ratio Lower Upper

76 100

78 9.8 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-412) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-412) (-)

2.46

2000

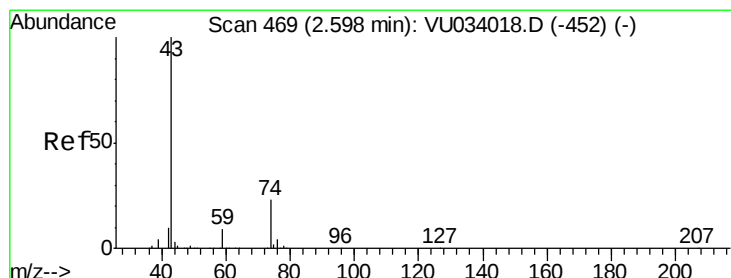
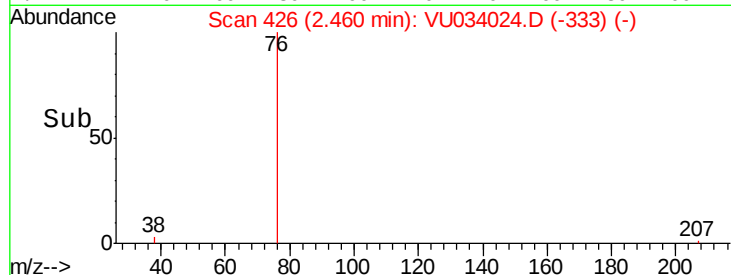
1500

1000

500

0

Time--> 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.289 ug/l

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034024.D

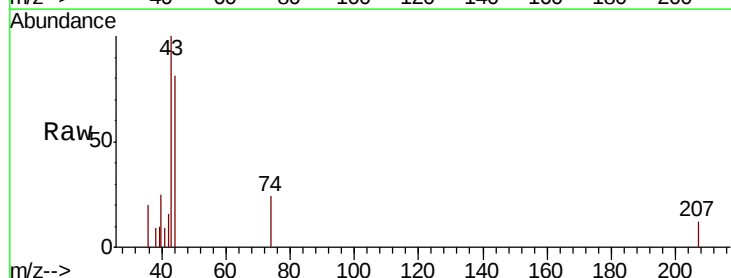
Acq: 28 Aug 2019 15:46

Tgt Ion: 43 Resp: 2514

Ion Ratio Lower Upper

43 100

74 20.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

2.61

1200

1000

800

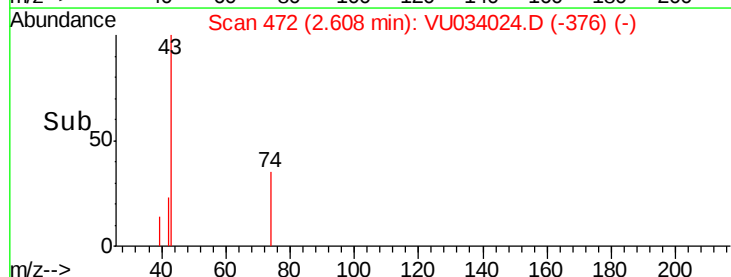
600

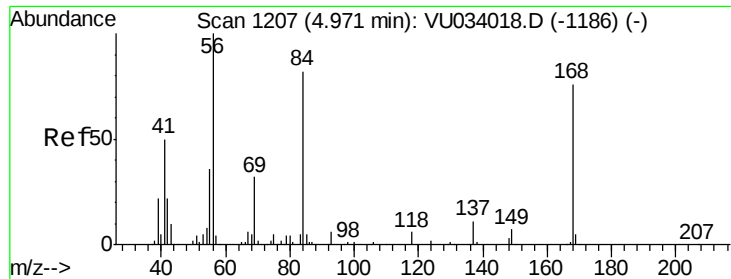
400

200

0

Time--> 2.55 2.60 2.65

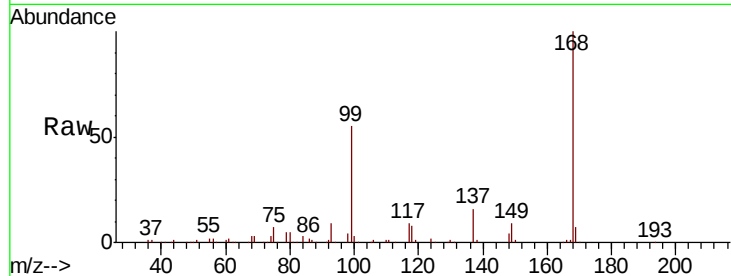




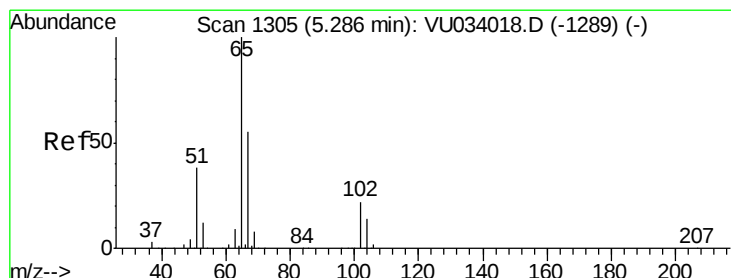
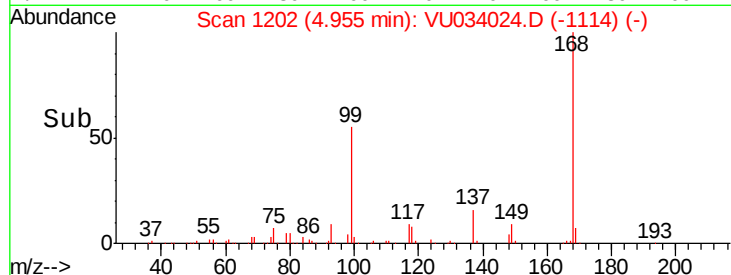
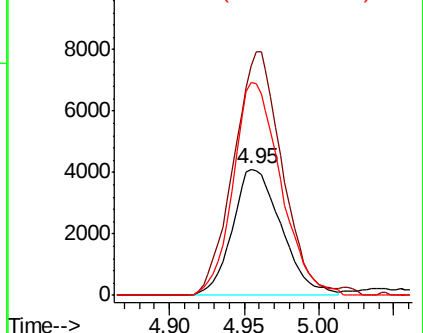
#31
Cyclohexane
Concen: 0.949 ug/l
RT: 4.95 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VU034024.D
Acq: 28 Aug 2019 15:46

Instrument :
MSVOA_U
ClientSampleId :
VU0829WBL01

Tgt Ion: 56 Resp: 9353
Ion Ratio Lower Upper
56 100
69 182.0 25.4 38.0#
84 168.7 65.8 98.8#

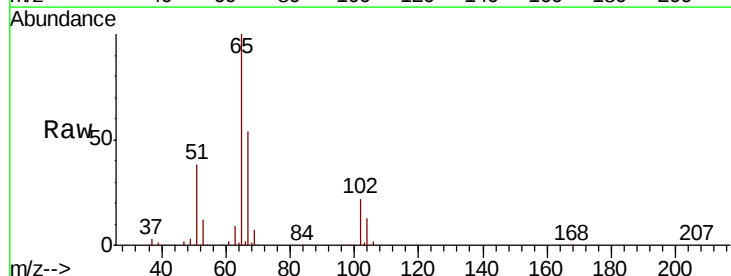


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

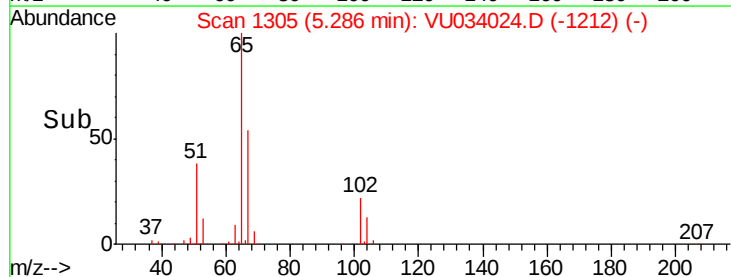
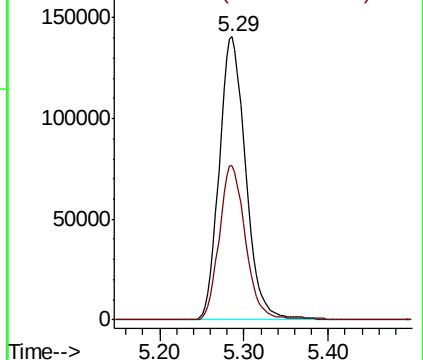


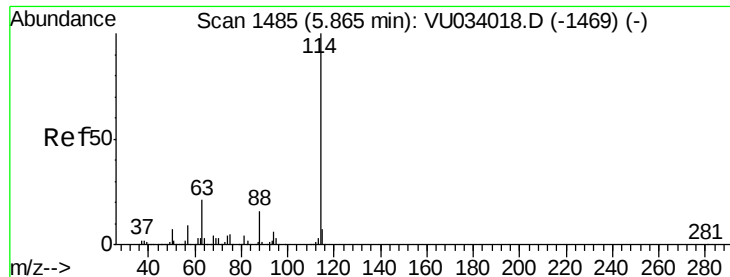
#33
1,2-Dichloroethane-d4
Concen: 46.523 ug/l
RT: 5.29 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VU034024.D
Acq: 28 Aug 2019 15:46

Tgt Ion: 65 Resp: 307164
Ion Ratio Lower Upper
65 100
67 54.1 0.0 110.6



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

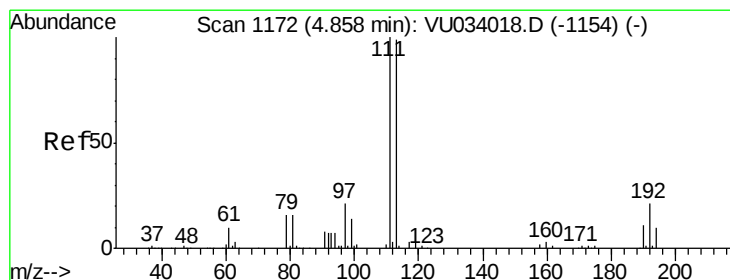
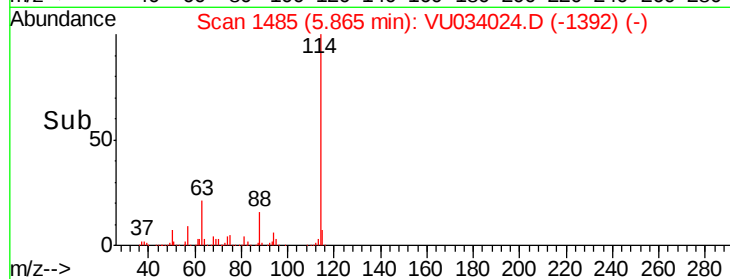
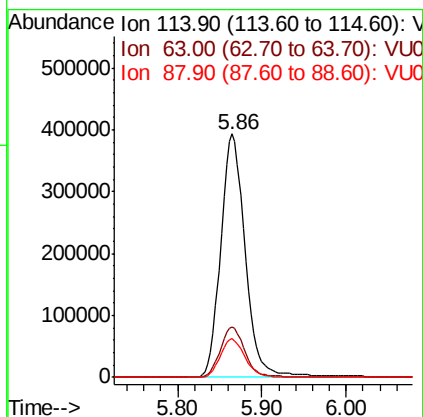
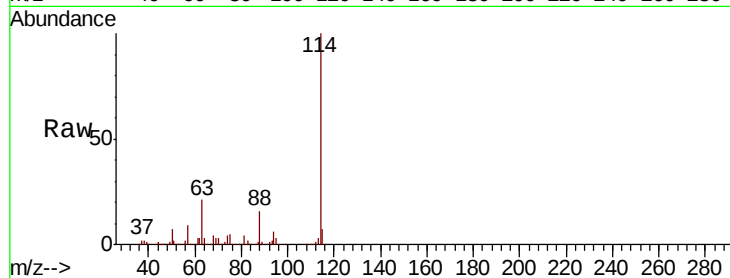




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034024.D
 Acq: 28 Aug 2019 15:46

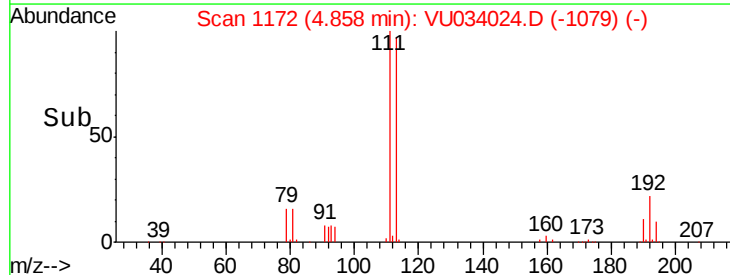
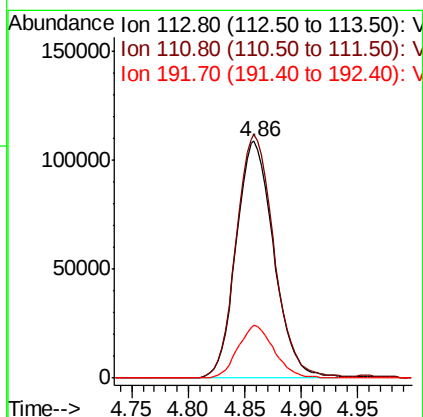
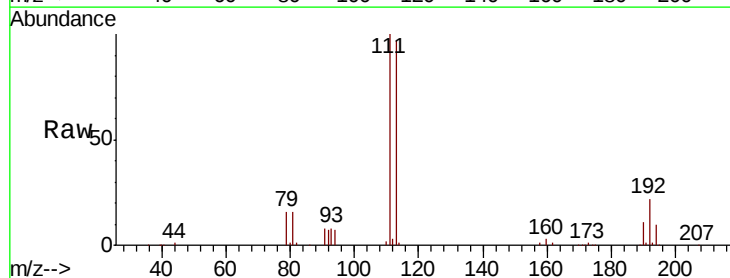
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0829WBL01

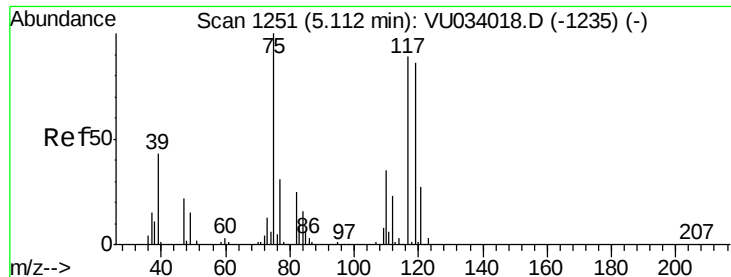
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.0
88	15.9	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 45.804 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034024.D
 Acq: 28 Aug 2019 15:46

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.7	122.5
192	21.6	17.1	25.7

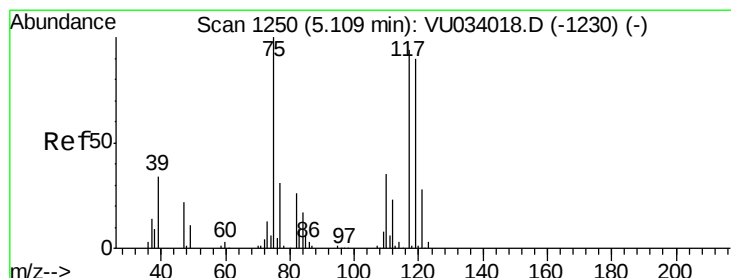
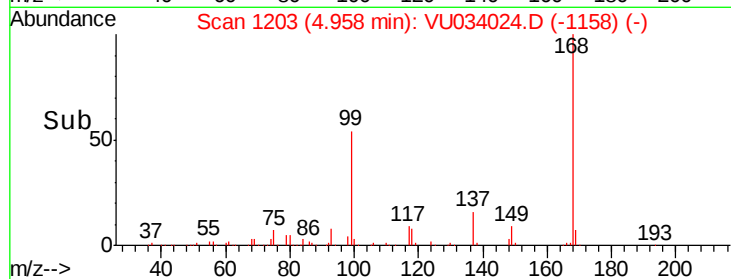
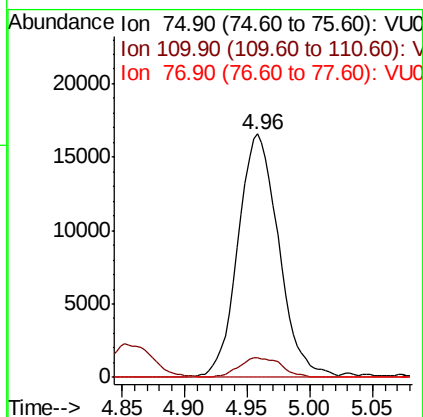
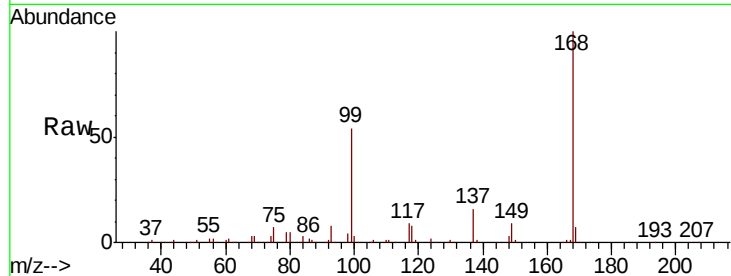




#36
 1,1-Dichloropropene
 Concen: 4.983 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034024.D
 Acq: 28 Aug 2019 15:46

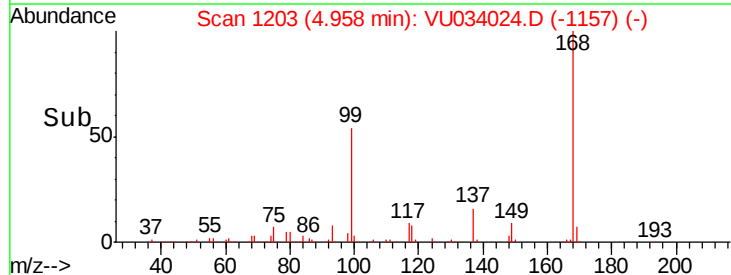
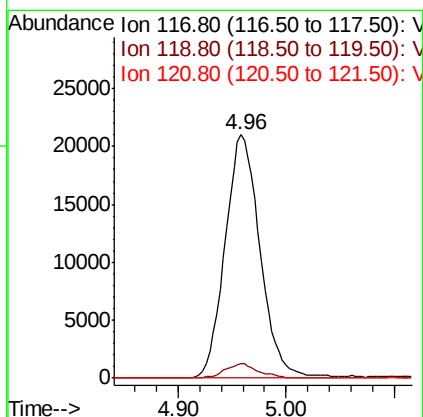
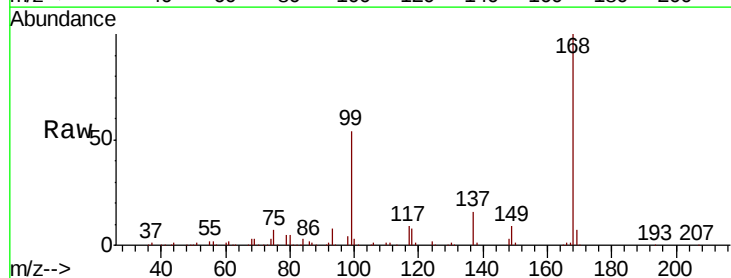
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0829WBL01

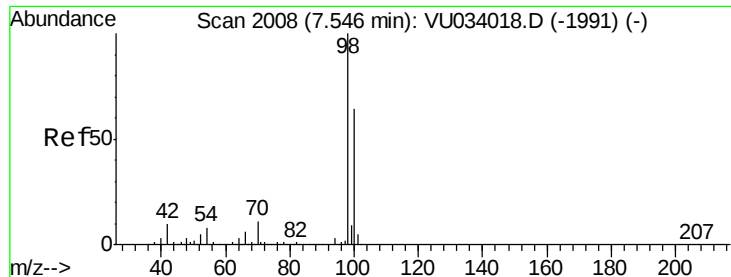
Tgt Ion: 75 Resp: 37443
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.8 53.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.530 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034024.D
 Acq: 28 Aug 2019 15:46

Tgt Ion: 117 Resp: 47359
 Ion Ratio Lower Upper
 117 100
 119 5.7 77.0 115.4#
 121 0.0 23.9 35.9#





#50

Toluene-d8

Concen: 47.697 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

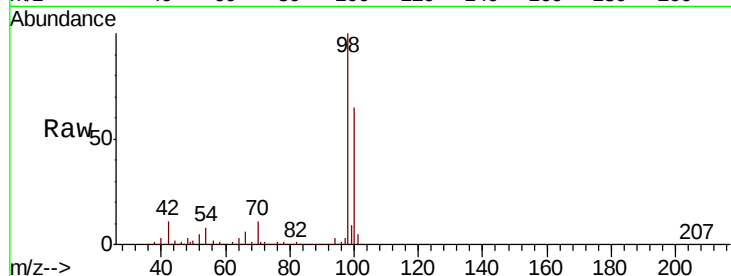
VU0829WBL01

Tgt Ion: 98 Resp: 983961

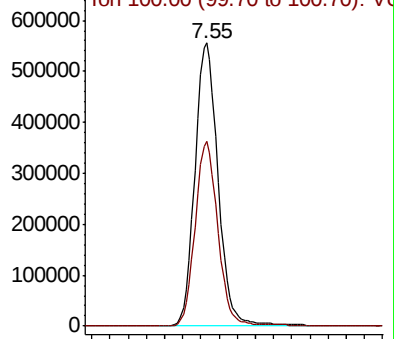
Ion Ratio Lower Upper

98 100

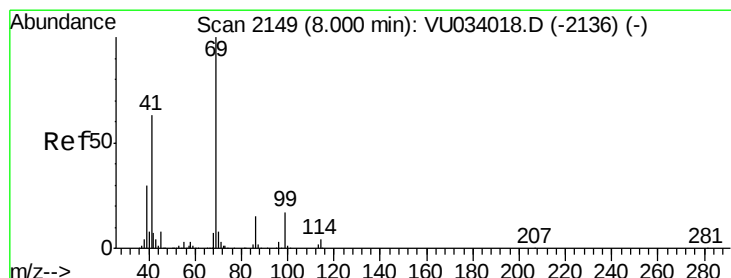
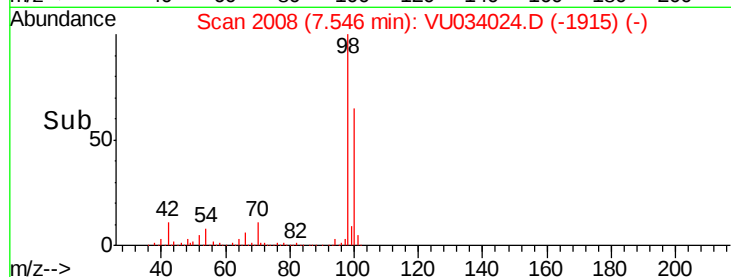
100 64.3 50.3 75.5



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



Time-->



#56

Ethyl methacrylate

Concen: 0.978 ug/l

RT: 8.03 min Scan# 2159

Delta R.T. 0.03 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

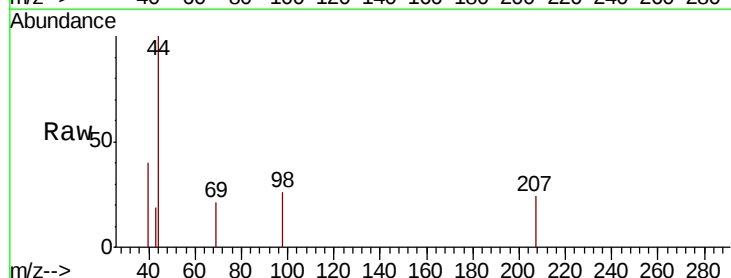
Tgt Ion: 69 Resp: 67

Ion Ratio Lower Upper

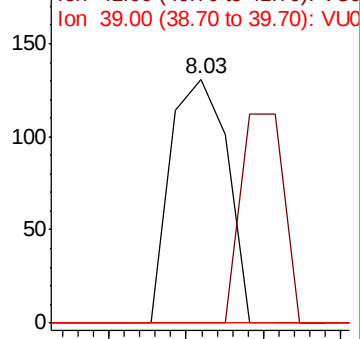
69 100

41 64.2 50.7 76.1

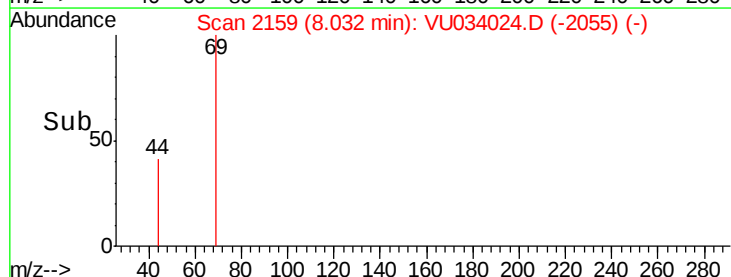
39 0.0 24.2 36.2#

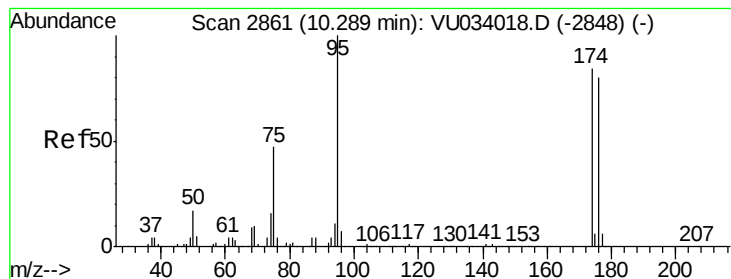


Abundance Ion 69.00 (68.70 to 69.70): VU034018.D (-2136) (-)



Time-->





#62

4-Bromofluorobenzene

Concen: 42.450 ug/l

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

VU0829WBL01

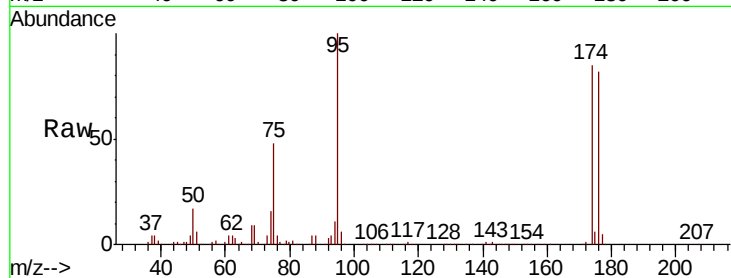
Tgt Ion: 95 Resp: 340649

Ion Ratio Lower Upper

95 100

174 85.2 0.0 168.8

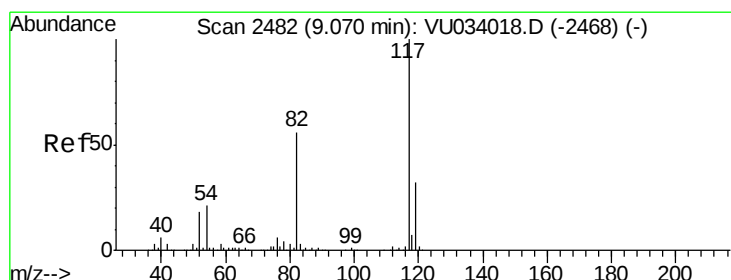
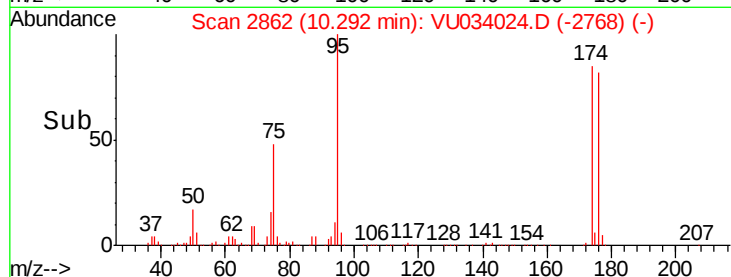
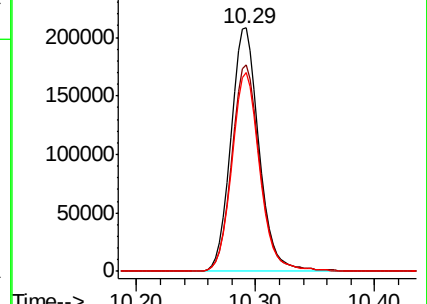
176 81.3 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034024.D (-2848) (-)

Ion 173.80 (173.50 to 174.50): VU034024.D (-2848) (-)

Ion 175.80 (175.50 to 176.50): VU034024.D (-2848) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

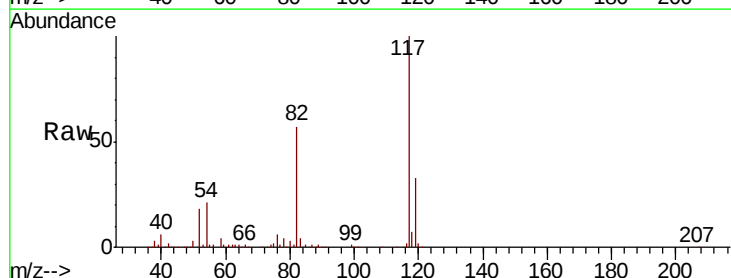
Tgt Ion: 117 Resp: 739891

Ion Ratio Lower Upper

117 100

82 57.5 45.1 67.7

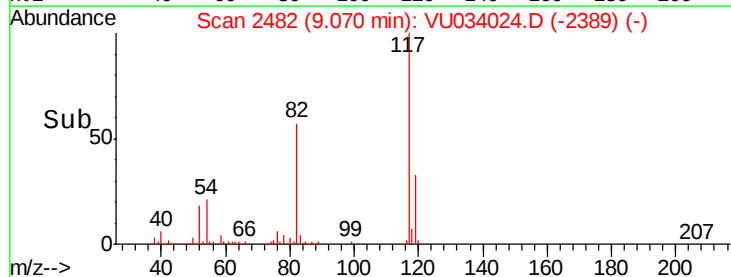
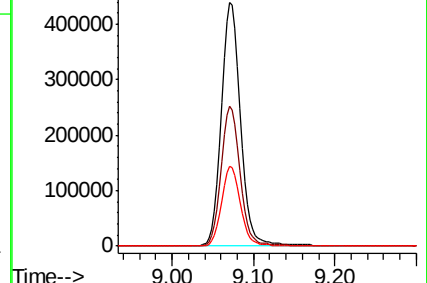
119 32.5 25.4 38.0

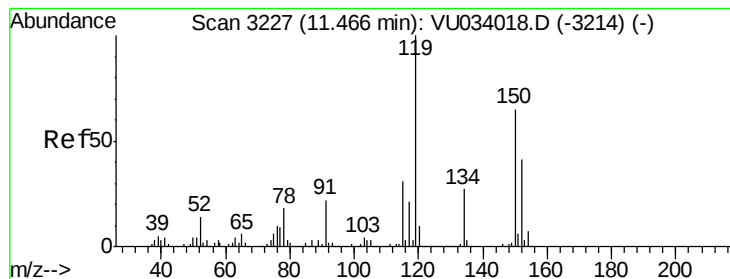


Abundance Ion 116.90 (116.60 to 117.60): VU034024.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034024.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034024.D (-2468) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

VU0829WBL01

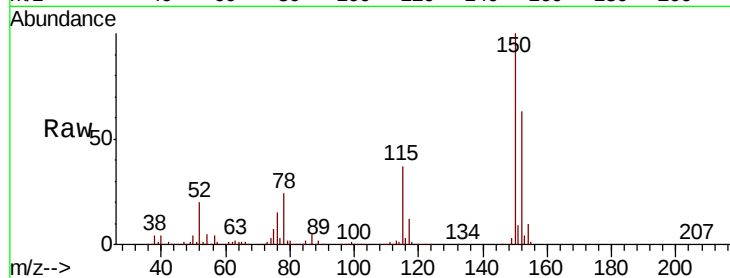
Tgt Ion:152 Resp: 332939

Ion Ratio Lower Upper

152 100

115 57.7 41.1 123.3

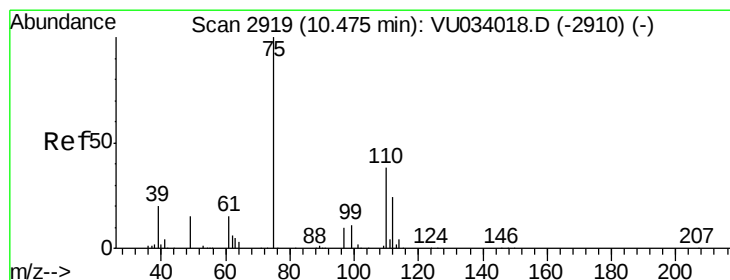
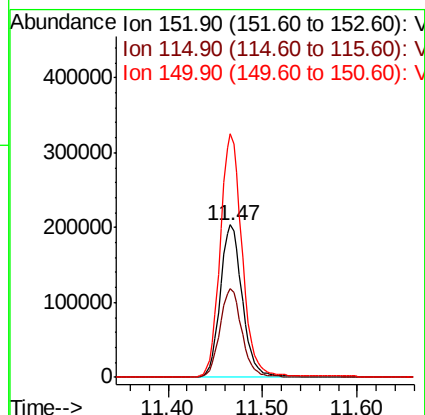
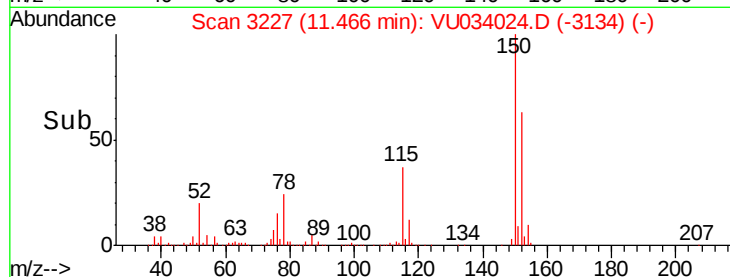
150 158.1 0.0 348.8



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



#76

1,2,3-Trichloropropane

Concen: 21.891 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034024.D

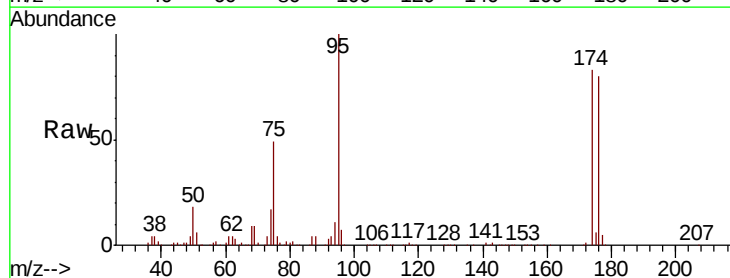
Acq: 28 Aug 2019 15:46

Tgt Ion: 75 Resp: 164266

Ion Ratio Lower Upper

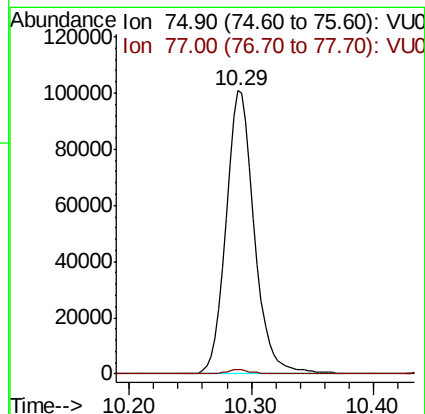
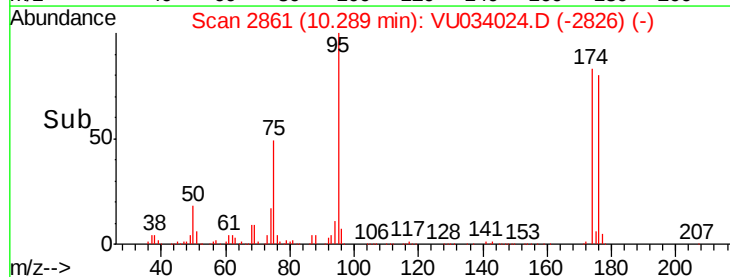
75 100

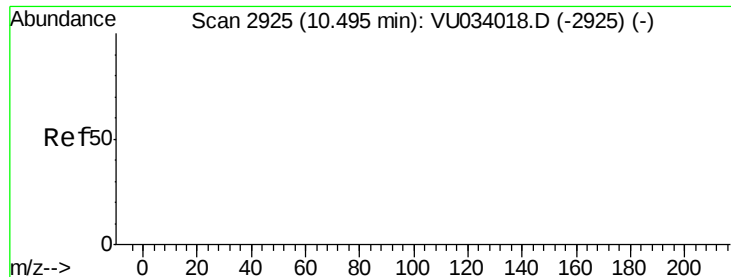
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

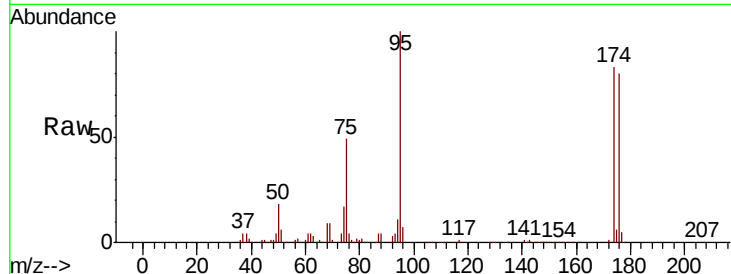




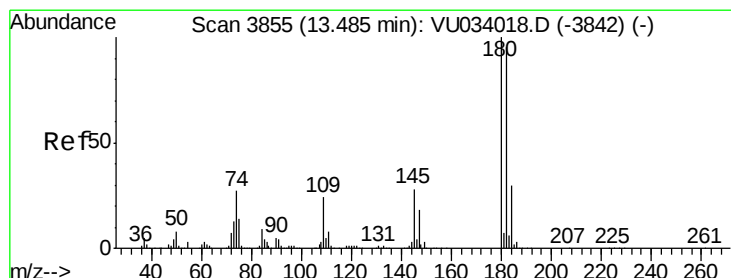
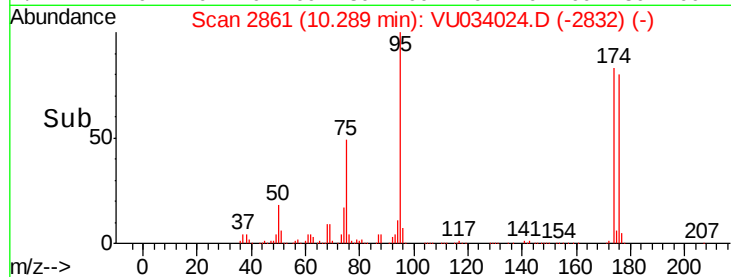
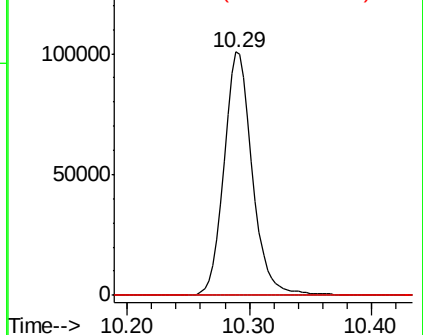
#81
trans-1,4-Dichloro-2-butene
Concen: 73.712 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034024.D
Acq: 28 Aug 2019 15:46

Instrument :
MSVOA_U
ClientSampleId :
VU0829WBL01

Tgt Ion: 75 Resp: 164266
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0

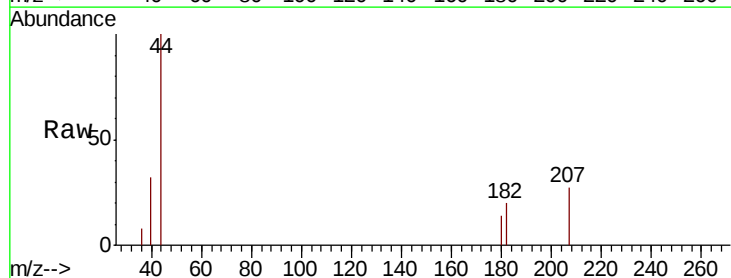


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

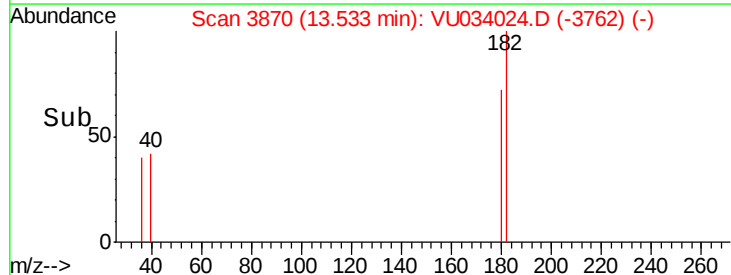
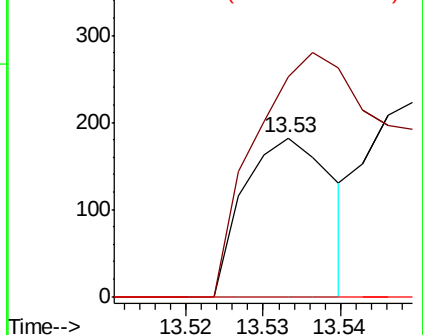


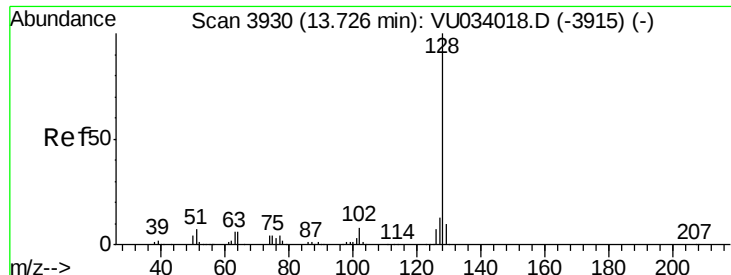
#93
1,2,4-Trichlorobenzene
Concen: 1.133 ug/l
RT: 13.53 min Scan# 3870
Delta R.T. 0.05 min
Lab File: VU034024.D
Acq: 28 Aug 2019 15:46

Tgt Ion: 180 Resp: 145
Ion Ratio Lower Upper
180 100
182 277.2 47.4 142.2#
145 0.0 14.1 42.3#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 1.847 ug/l

RT: 13.79 min Scan# 3949

Delta R.T. 0.06 min

Lab File: VU034024.D

Acq: 28 Aug 2019 15:46

Instrument :

MSVOA_U

ClientSampleId :

VU0829WBL01

Tgt Ion:128 Resp: 1229

Ion Ratio Lower Upper

128 100

127 6.7 10.2 15.4#

129 0.0 8.4 12.6#

