

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112918\
 Data File : VU028396.D
 Acq On : 29 Nov 2018 16:10
 Operator : MD/SY
 Sample : J6117-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

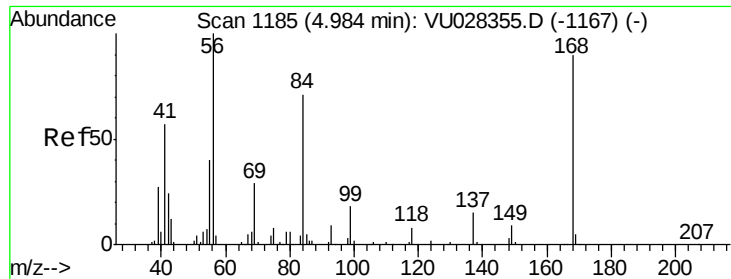
Quant Time: Nov 30 07:04:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	248853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	467880	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	437333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	206939	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	218211	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	
35) Dibromofluoromethane	4.88	113	158404	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
50) Toluene-d8	7.57	98	617931	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	10.31	95	225758	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1391	0.215	ug/l	90
4) Vinyl Chloride	1.41	62	1116	0.247	ug/l	90
11) Tert butyl alcohol	2.84	59	244	0.258	ug/l #	72
13) Acrolein	2.20	56	353	0.420	ug/l	98
16) Acetone	2.32	43	1675	0.658	ug/l #	87
17) Carbon Disulfide	2.48	76	2988	0.293	ug/l	97
31) Cyclohexane	4.98	56	6959	0.624	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	22721	4.438	ug/l #	50
38) Carbon Tetrachloride	4.99	117	25665	6.104	ug/l #	16
49) 1,4-Dioxane	6.63	88	44	0.478	ug/l #	1
51) 4-Methyl-2-Pentanone	7.47	43	2066	0.293	ug/l	90
59) 2-Hexanone	8.38	43	2352	0.430	ug/l	88
74) N-amyl acetate	10.02	43	2029	0.201	ug/l #	75
76) 1,2,3-Trichloropropane	10.31	75	118276	20.611	ug/l #	33
81) trans-1,4-Dichloro-2-buten	10.31	75	118276	54.711	ug/l #	100
87) 1,3-Dichlorobenzene	11.41	146	1399	0.202	ug/l	96
88) 1,4-Dichlorobenzene	11.41	146	1399	0.201	ug/l	97
89) n-Butylbenzene	11.89	91	2725	0.204	ug/l	99
93) 1,2,4-Trichlorobenzene	13.50	180	1886	0.418	ug/l	89
94) Hexachlorobutadiene	13.69	225	644	0.302	ug/l	88
95) Naphthalene	13.75	128	7210	3.226	ug/l #	93
96) 1,2,3-Trichlorobenzene	13.99	180	1660	0.363	ug/l	76

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

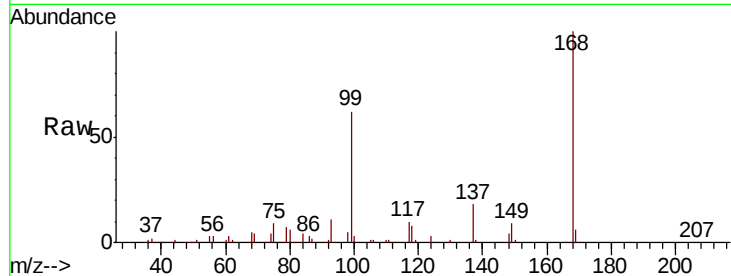
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 248853

Ion Ratio Lower Upper

168 100

99 61.6 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028355.D (-1167) (-)

4.98

120000

100000

80000

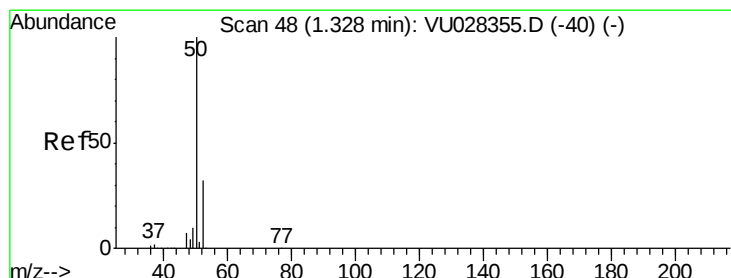
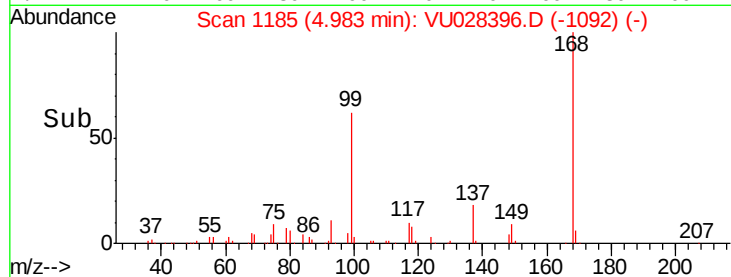
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.215 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028396.D

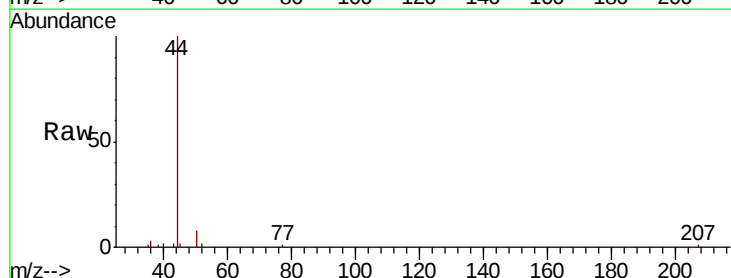
Acq: 29 Nov 2018 16:10

Tgt Ion: 50 Resp: 1391

Ion Ratio Lower Upper

50 100

52 26.1 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VU028355.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028355.D (-40) (-)

1.33

1200

1000

800

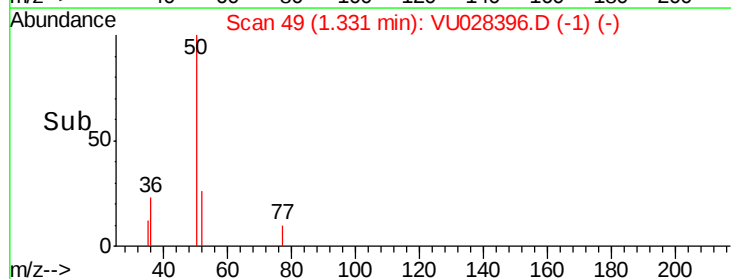
600

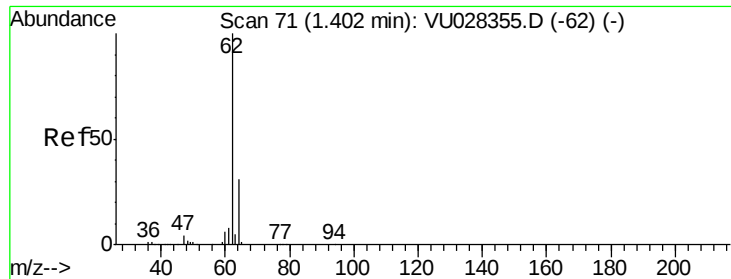
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.247 ug/l

RT: 1.41 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

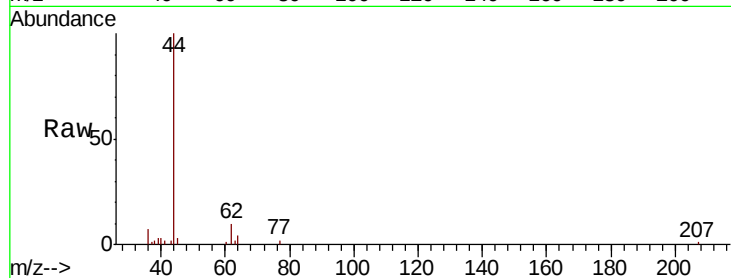
ClientSampled :

Tot Ion: 62 Resp: 1116

Ion Ratio Lower Upper

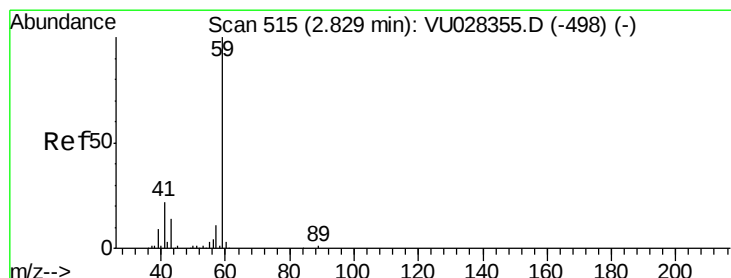
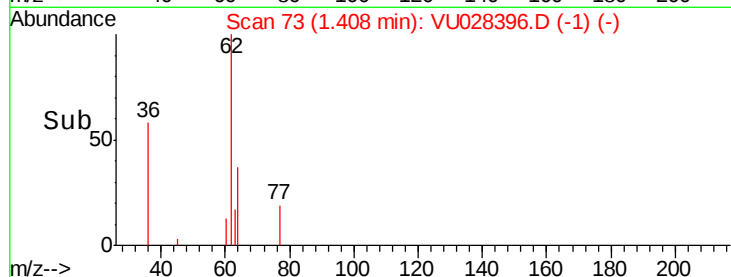
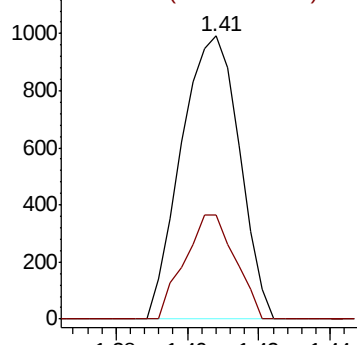
62 100

64 36.9 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#11

Tert butyl alcohol

Concen: 0.258 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028396.D

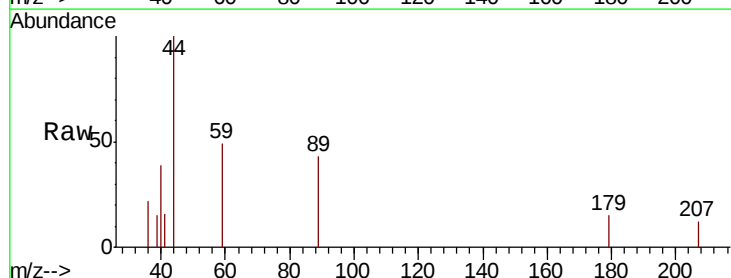
Acq: 29 Nov 2018 16:10

Tgt Ion: 59 Resp: 244

Ion Ratio Lower Upper

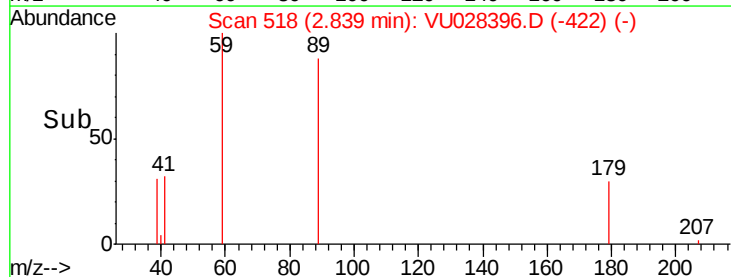
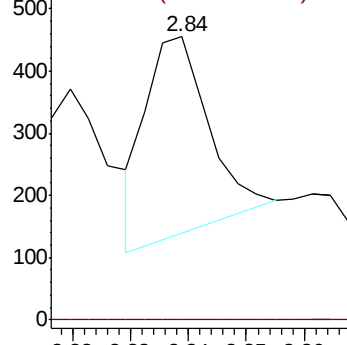
59 100

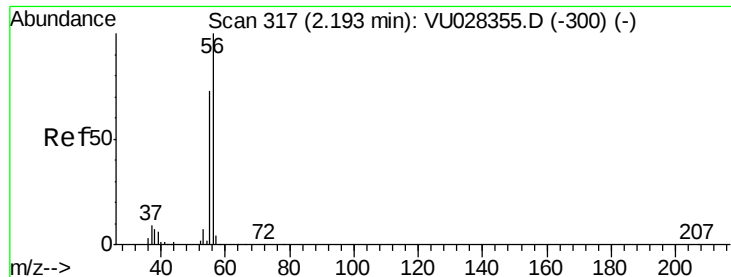
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.420 ug/l

RT: 2.20 min Scan# 319

Delta R.T. 0.01 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

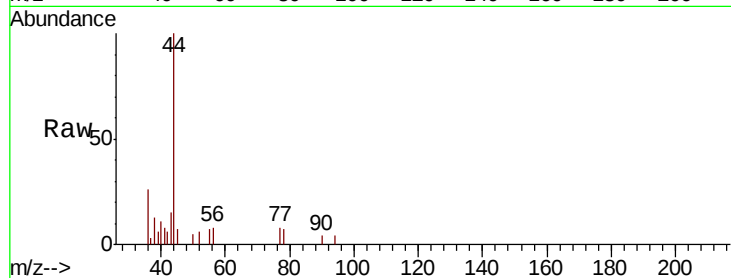
ClientSampled :

Tot Ion: 56 Resp: 353

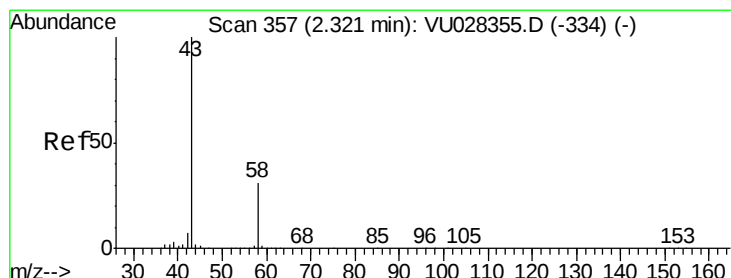
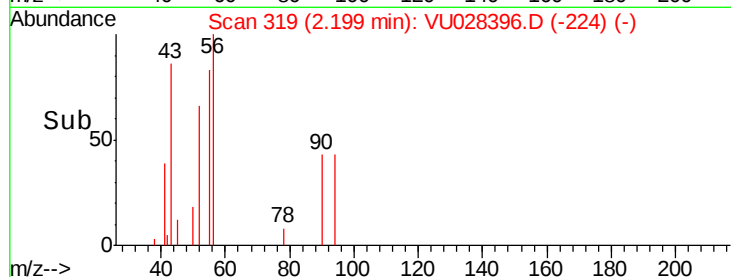
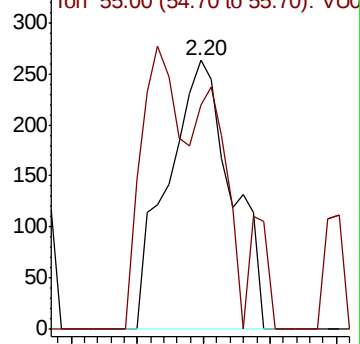
Ion Ratio Lower Upper

56 100

55 69.4 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VU0



#16

Acetone

Concen: 0.658 ug/l

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU028396.D

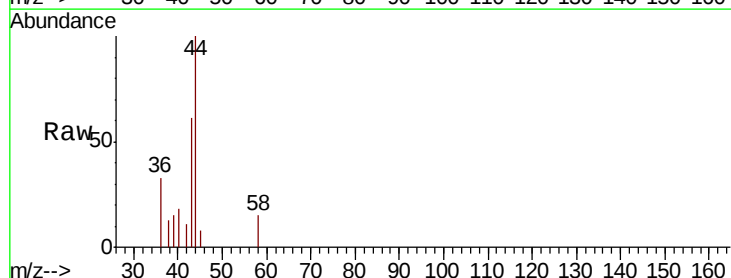
Acq: 29 Nov 2018 16:10

Tgt Ion: 43 Resp: 1675

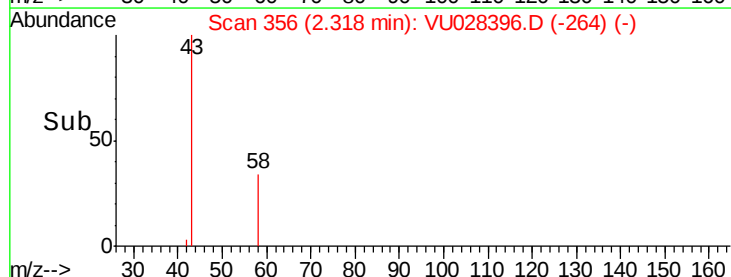
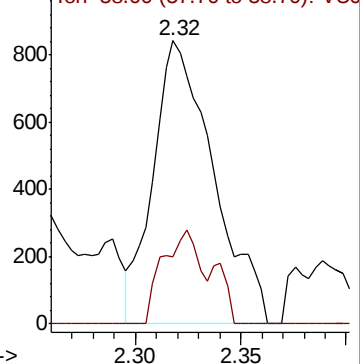
Ion Ratio Lower Upper

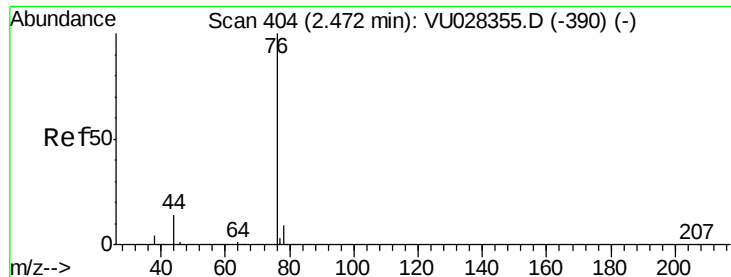
43 100

58 23.6 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0





#17

Carbon Disulfide

Concen: 0.293 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

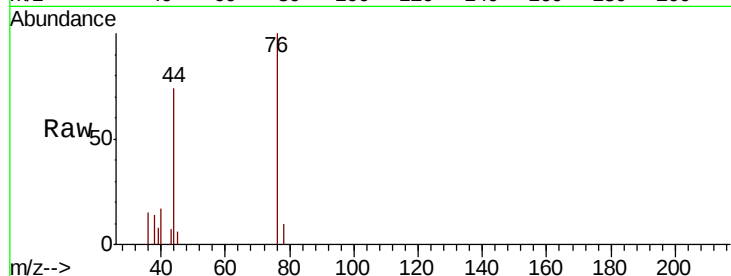
ClientSampleId :

Tot Ion: 76 Resp: 2988

Ion Ratio Lower Upper

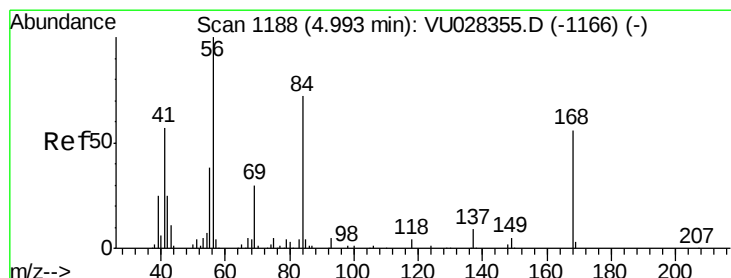
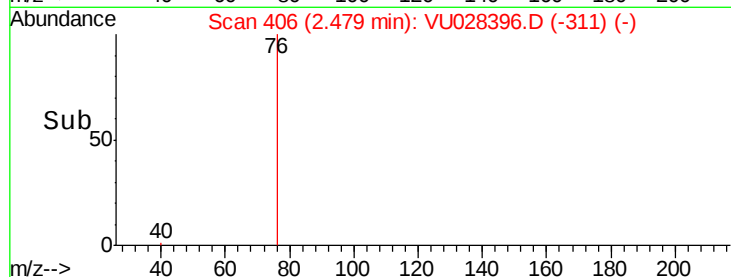
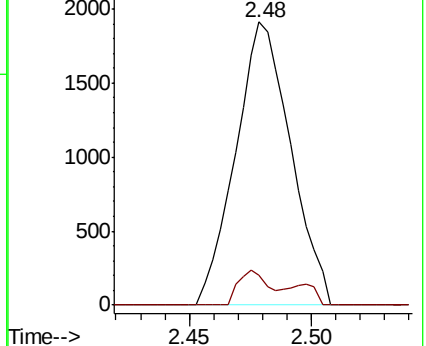
76 100

78 10.5 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VU028355.D (-390) (-)

Ion 77.90 (77.60 to 78.60): VU028355.D (-390) (-)



#31

Cyclohexane

Concen: 0.624 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

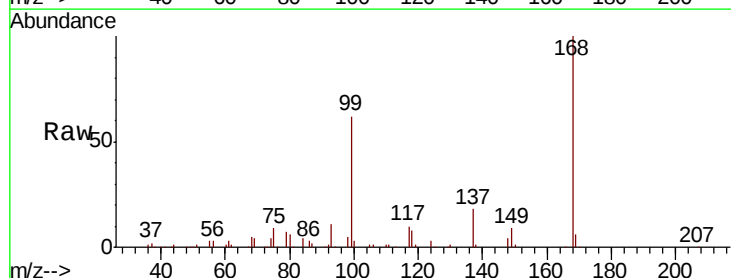
Tgt Ion: 56 Resp: 6959

Ion Ratio Lower Upper

56 100

69 146.5 23.7 35.5#

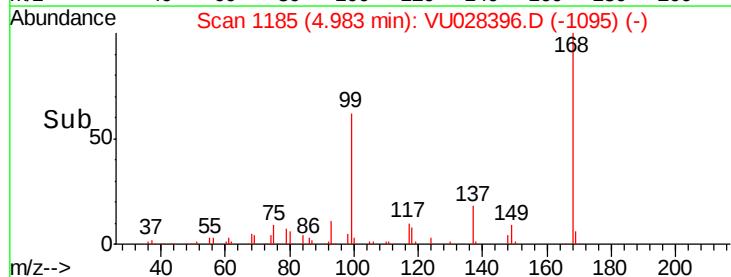
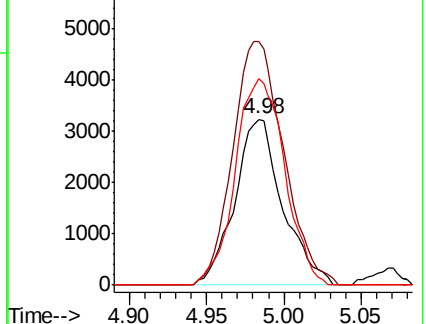
84 123.9 57.3 85.9#

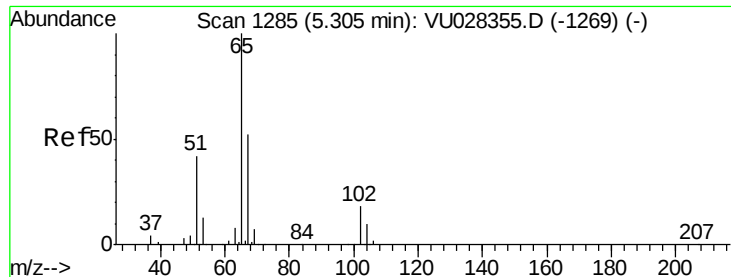


Abundance Ion 56.00 (55.70 to 56.70): VU028355.D (-1166) (-)

Ion 69.00 (68.70 to 69.70): VU028355.D (-1166) (-)

Ion 84.00 (83.70 to 84.70): VU028355.D (-1166) (-)

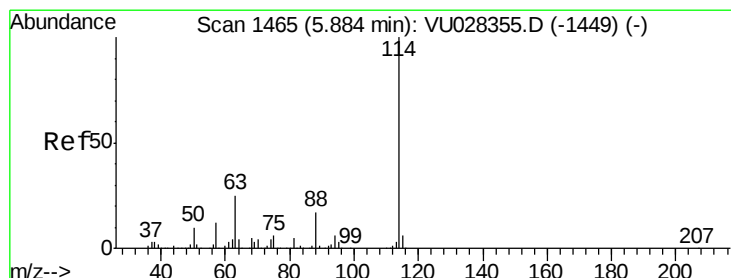
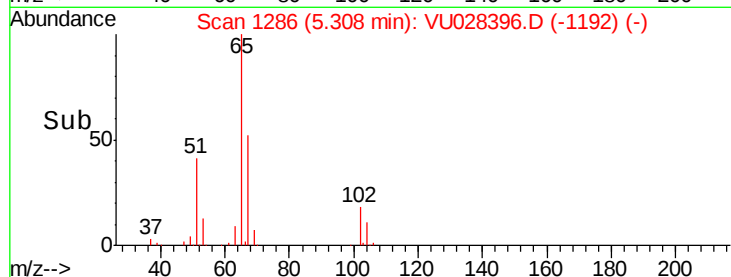
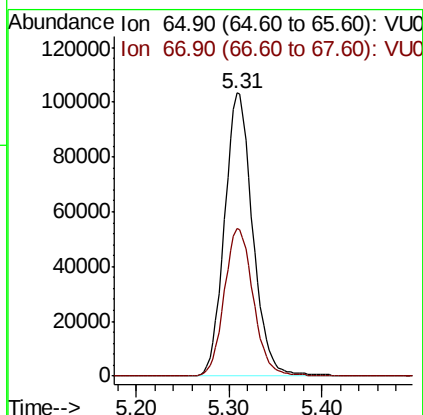
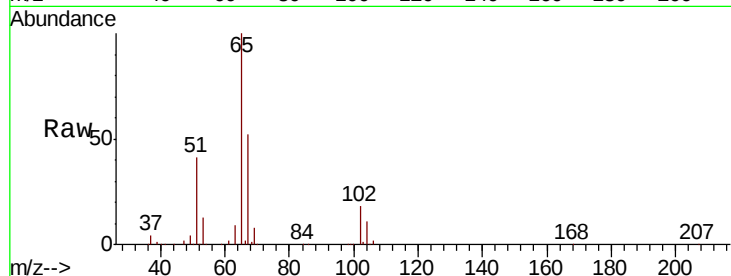




#33
 1,2-Dichloroethane-d4
 Concen: 52.468 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028396.D
 Acq: 29 Nov 2018 16:10

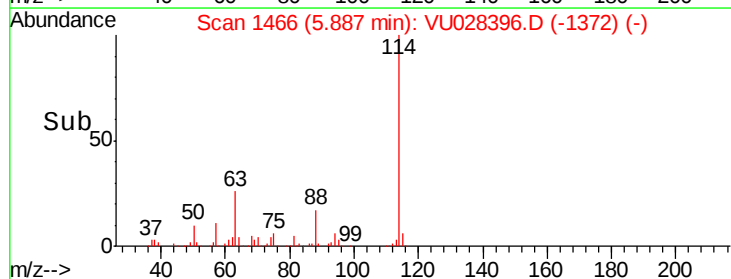
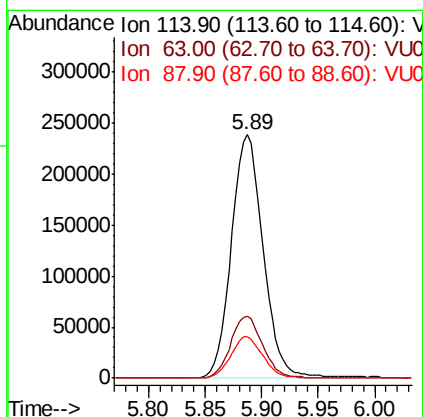
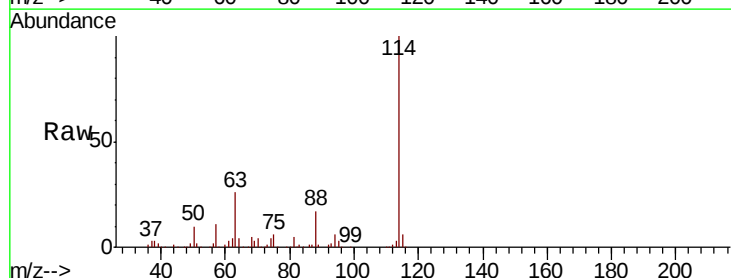
Instrument :
 MSVOA_U
 ClientSampleId :

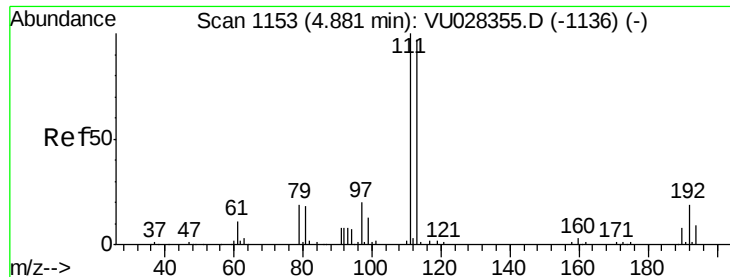
Tot Ion: 65 Resp: 218211
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028396.D
 Acq: 29 Nov 2018 16:10

Tgt Ion: 114 Resp: 467880
 Ion Ratio Lower Upper
 114 100
 63 25.5 0.0 50.0
 88 17.1 0.0 34.4

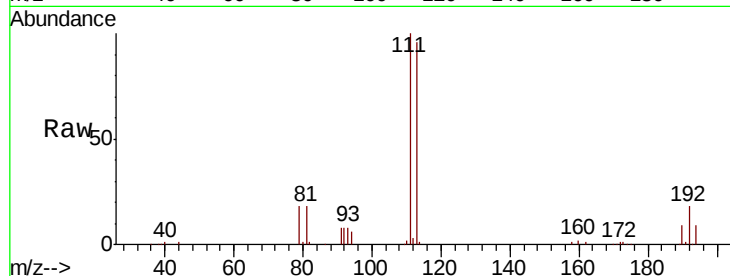




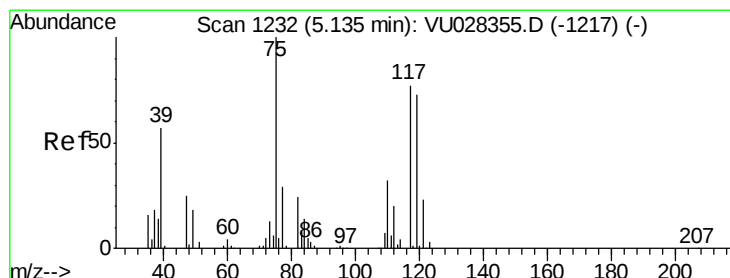
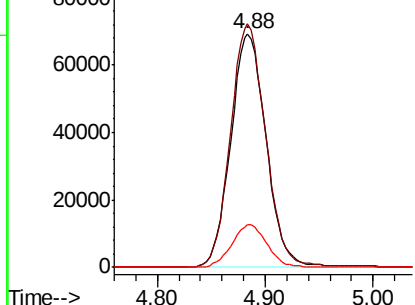
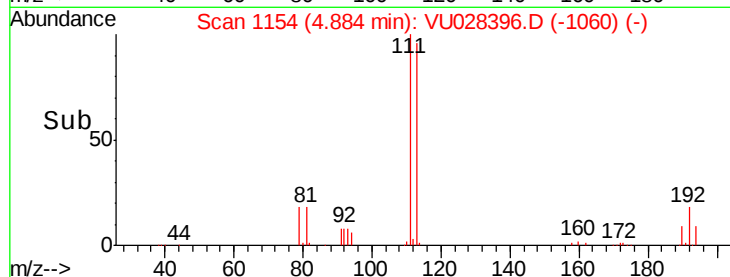
#35
 Dibromofluoromethane
 Concen: 50.914 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028396.D
 Acq: 29 Nov 2018 16:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:113 Resp: 158404
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.9 124.3
 192 18.3 15.4 23.0

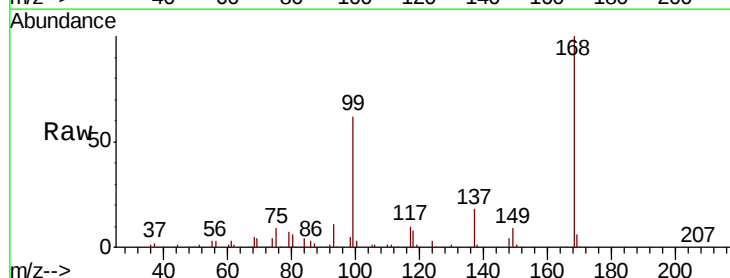


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

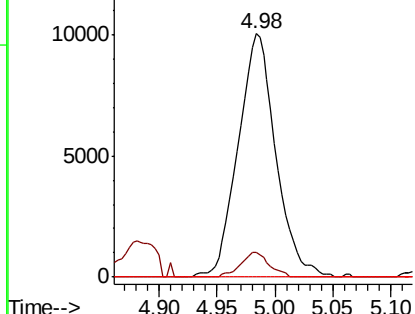
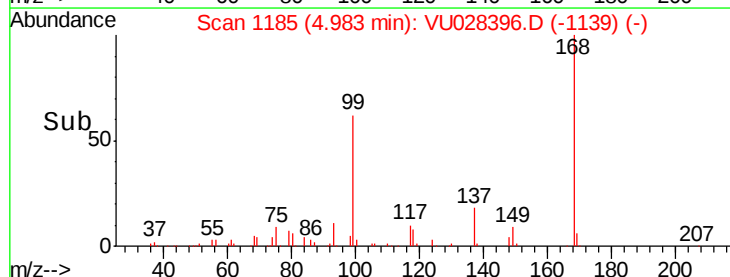


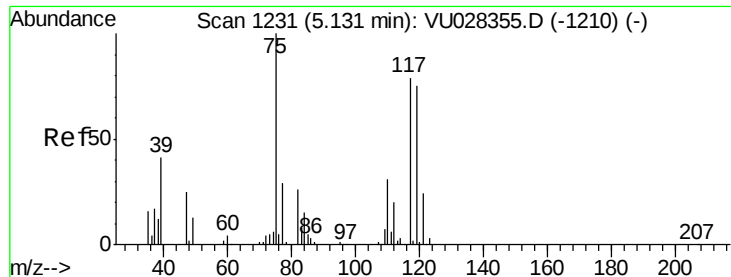
#36
 1,1-Dichloropropene
 Concen: 4.438 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028396.D
 Acq: 29 Nov 2018 16:10

Tgt Ion: 75 Resp: 22721
 Ion Ratio Lower Upper
 75 100
 110 7.6 15.8 47.4#
 77 0.0 24.6 36.8#



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





#38

Carbon Tetrachloride

Concen: 6.104 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.14 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

ClientSampled :

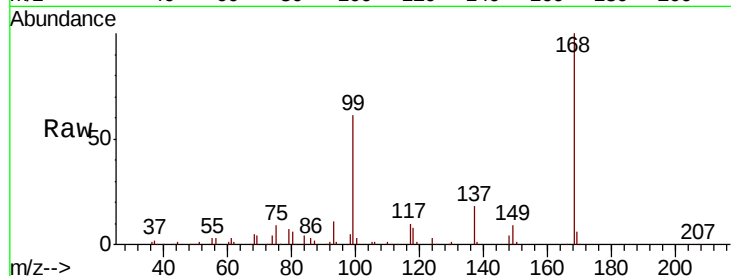
Tot Ion:117 Resp: 25665

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

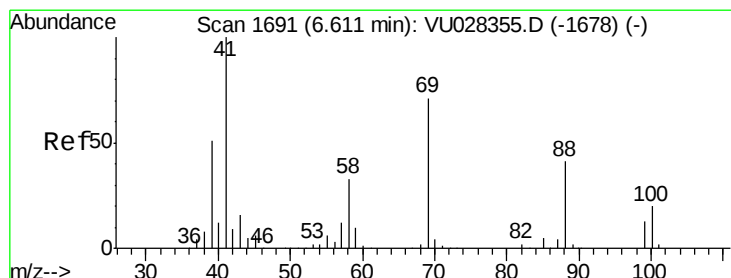
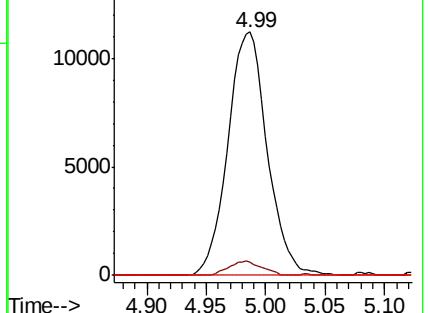
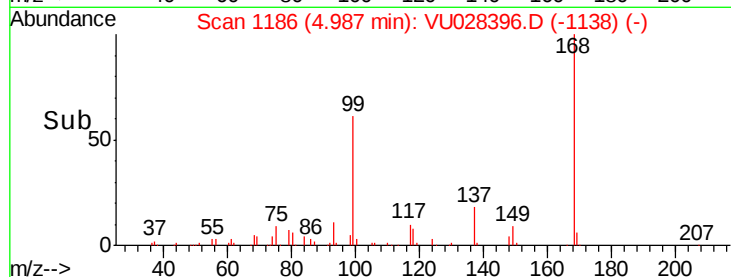
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.478 ug/l

RT: 6.63 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

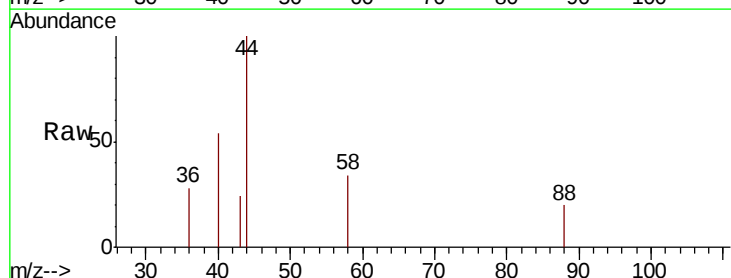
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 359.1 32.6 48.8#

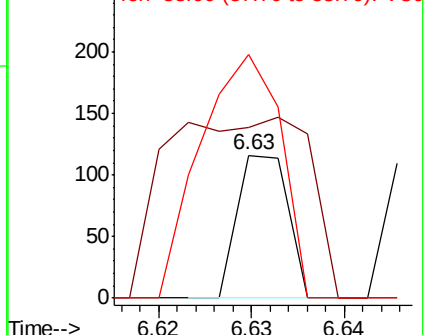
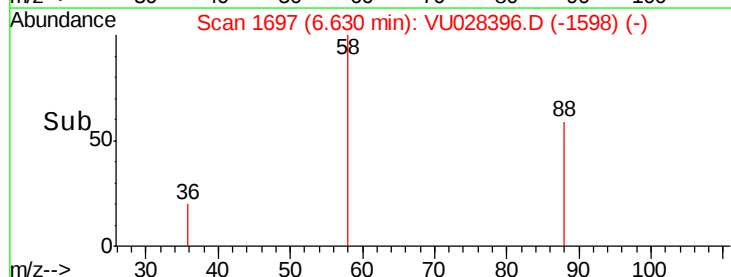
58 270.5 68.7 103.1#

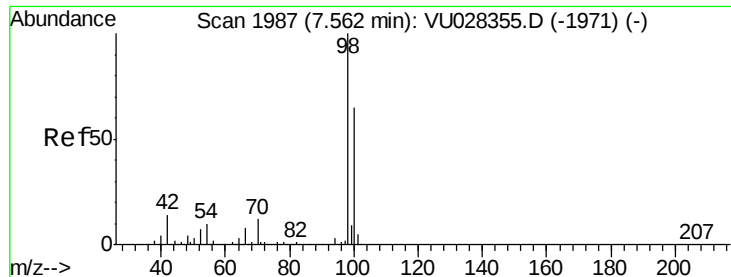


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#50

Toluene-d8

Concen: 49.662 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

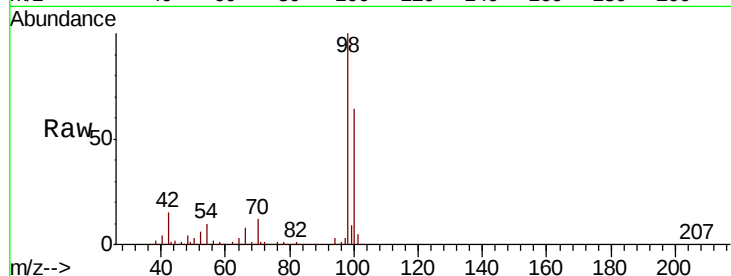
ClientSampleId :

Tot Ion: 98 Resp: 617931

Ion Ratio Lower Upper

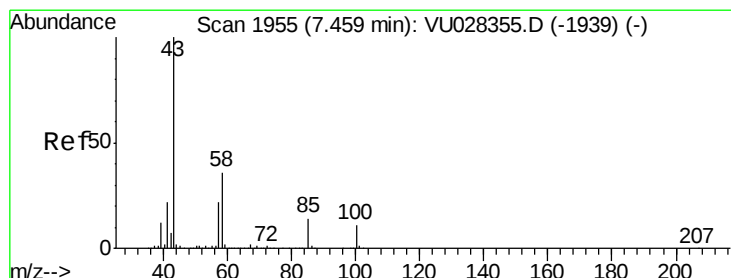
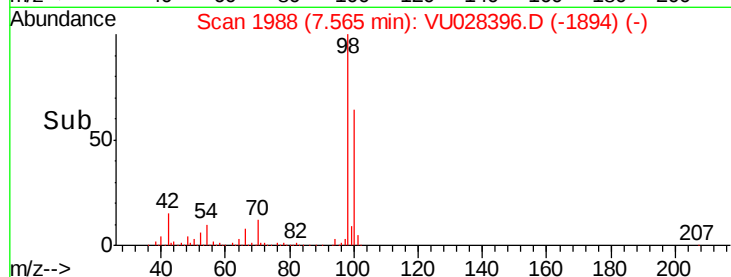
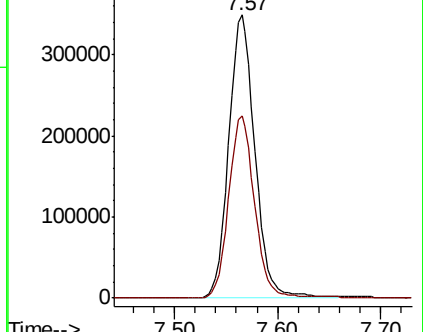
98 100

100 63.6 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU028355.D (-1971) (-)

Ion 100.00 (99.70 to 100.70): VU028355.D (-1971) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.293 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VU028396.D

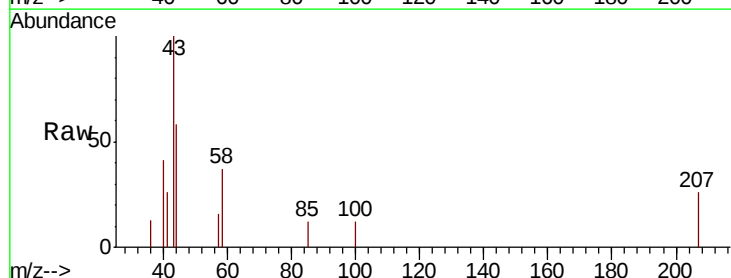
Acq: 29 Nov 2018 16:10

Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

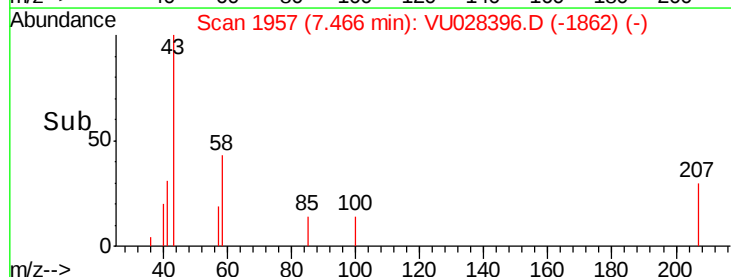
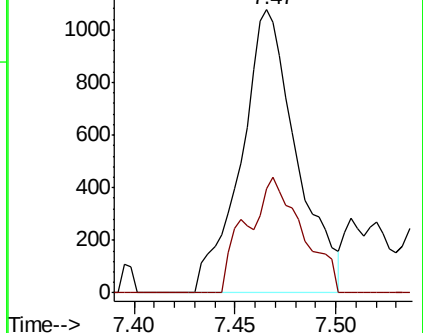
43 100

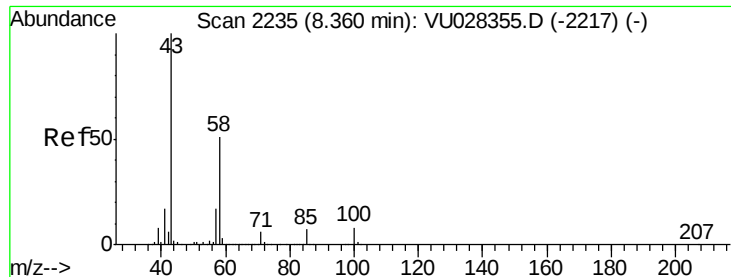
58 30.3 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028355.D (-1939) (-)

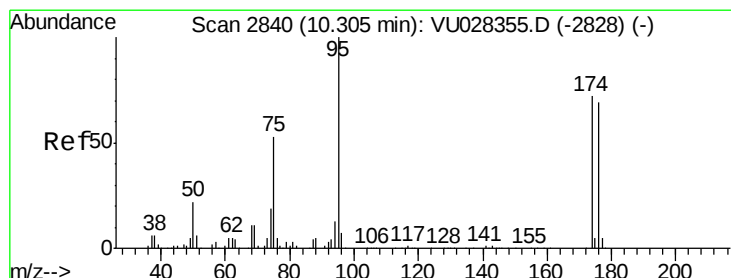
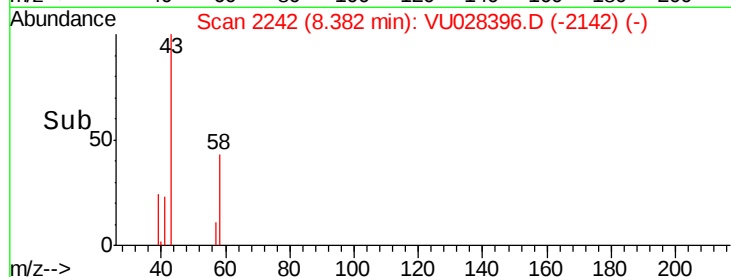
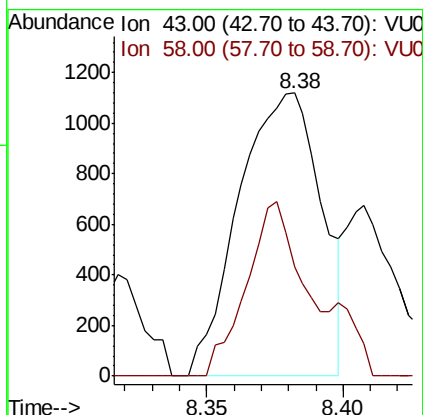
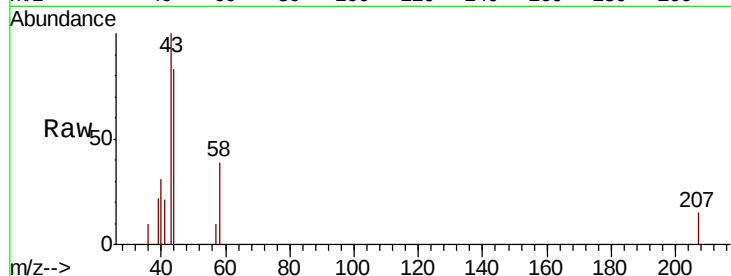




#59
2-Hexanone
Concen: 0.430 ug/l
RT: 8.38 min Scan# 2242
Delta R.T. 0.02 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

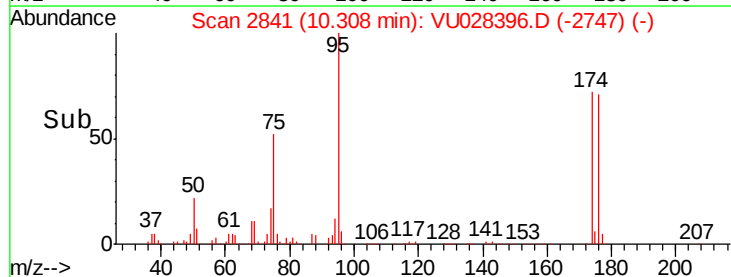
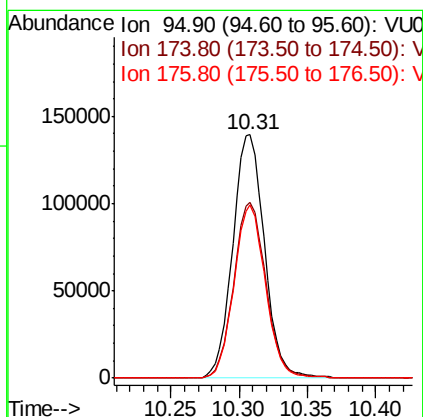
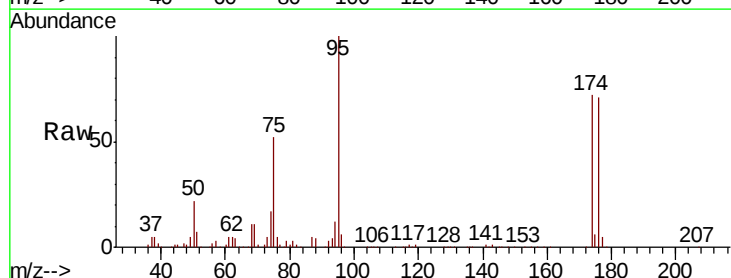
Instrument :
MSVOA_U
ClientSampled :

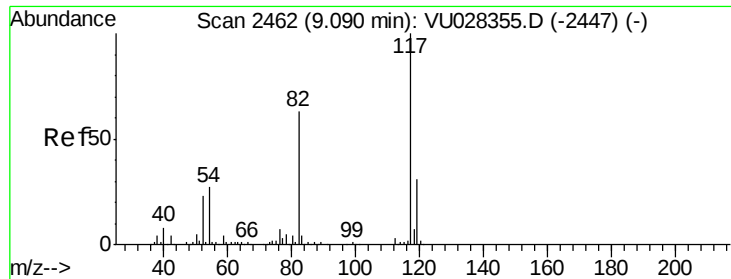
Tot Ion: 43 Resp: 2352
Ion Ratio Lower Upper
43 100
58 42.8 25.5 76.5



#62
4-Bromofluorobenzene
Concen: 50.340 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

Tgt Ion: 95 Resp: 225758
Ion Ratio Lower Upper
95 100
174 73.4 0.0 145.4
176 70.5 0.0 140.8

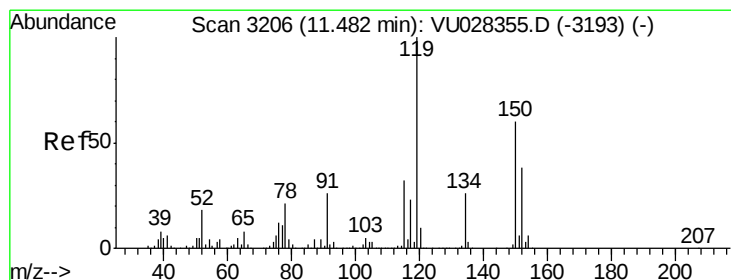
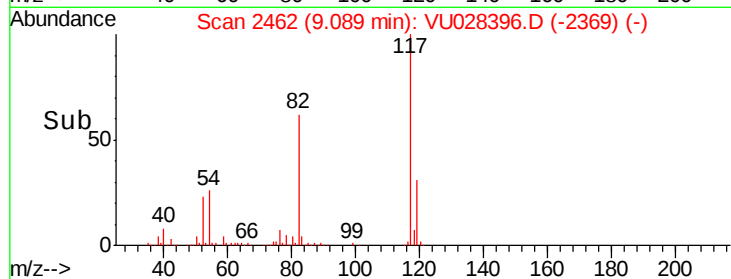
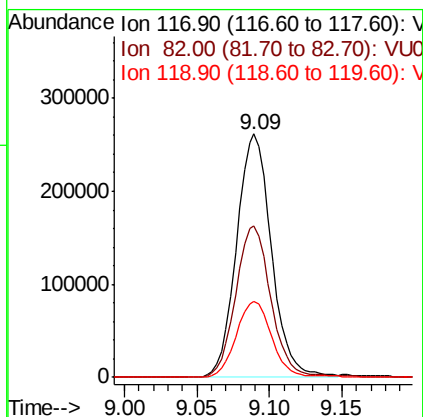
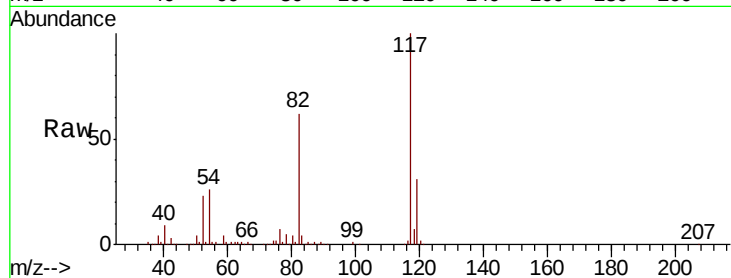




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

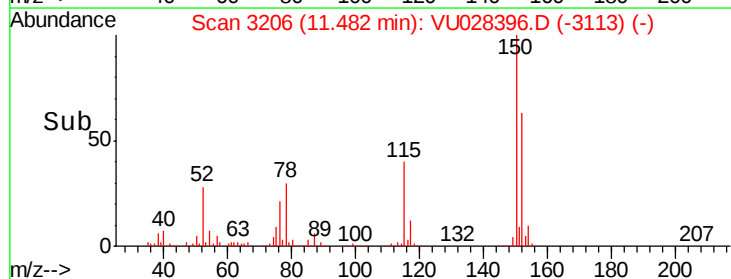
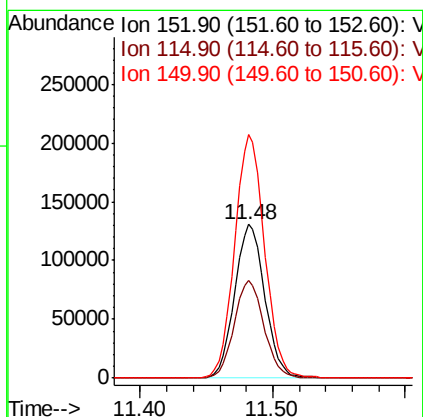
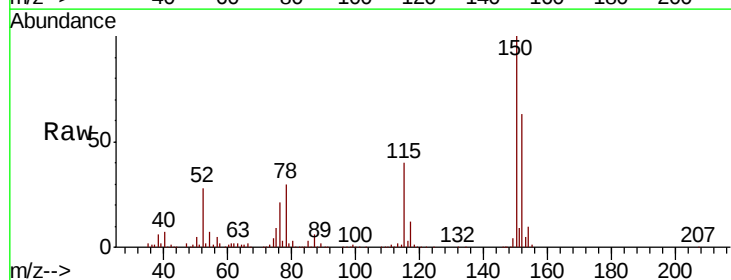
Instrument :
MSVOA_U
ClientSampleId :

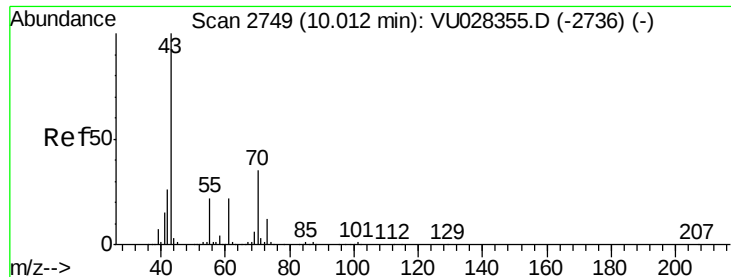
Tot Ion:117 Resp: 437333
Ion Ratio Lower Upper
117 100
82 62.5 50.3 75.5
119 31.3 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

Tgt Ion:152 Resp: 206939
Ion Ratio Lower Upper
152 100
115 62.5 45.0 134.8
150 157.1 0.0 349.2





#74

N-amvl acetate

Concen: 0.201 ug/l

RT: 10.02 min Scan# 2751

Delta R.T. 0.01 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 43 Resp: 2029

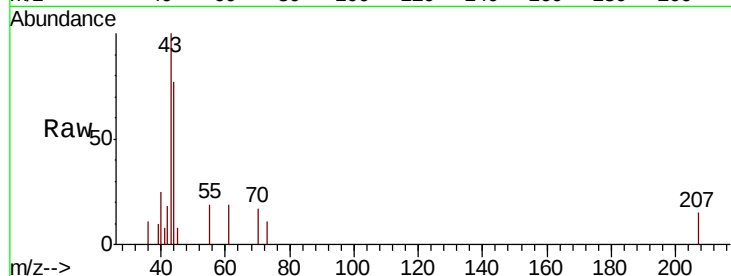
Ion Ratio Lower Upper

43 100

70 11.5 28.4 42.6#

55 22.2 18.0 27.0

61 10.3 17.6 26.4#

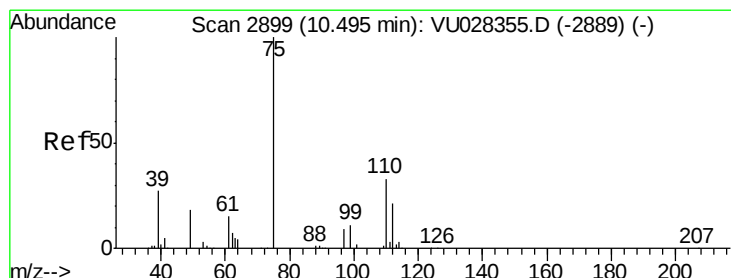
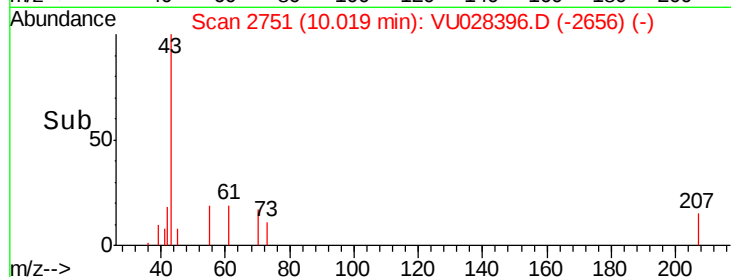
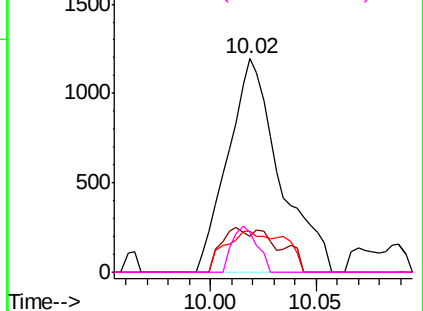


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 20.611 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028396.D

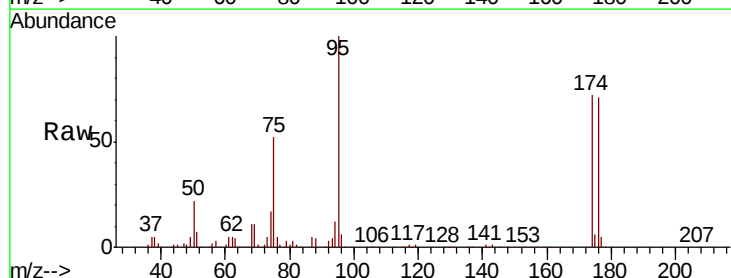
Acq: 29 Nov 2018 16:10

Tgt Ion: 75 Resp: 118276

Ion Ratio Lower Upper

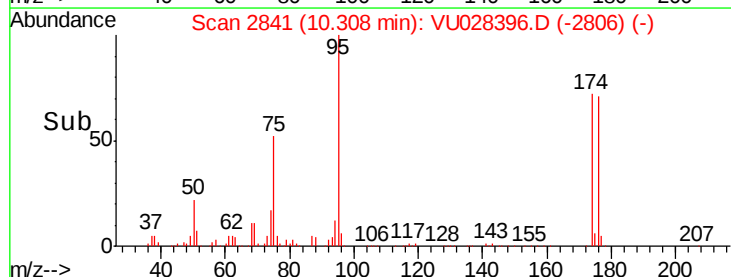
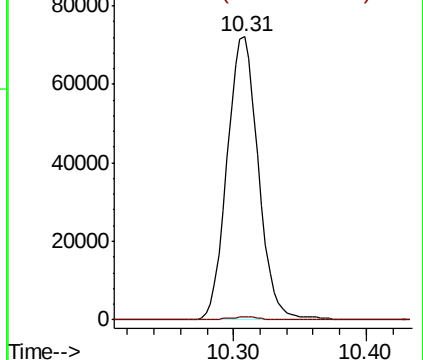
75 100

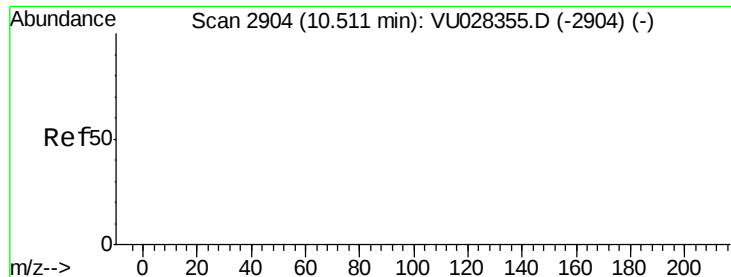
77 1.1 22.4 67.0#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

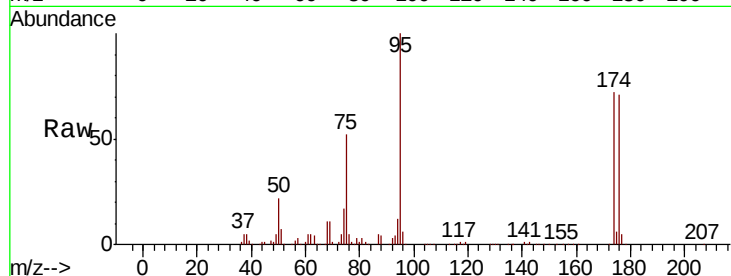




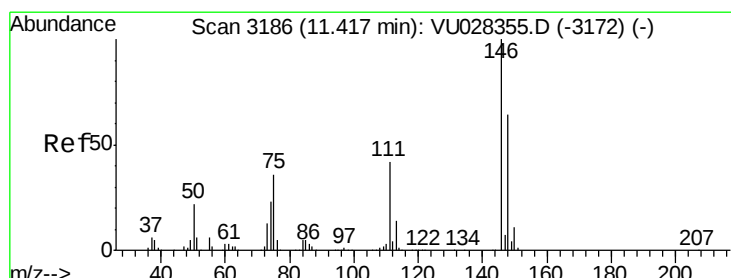
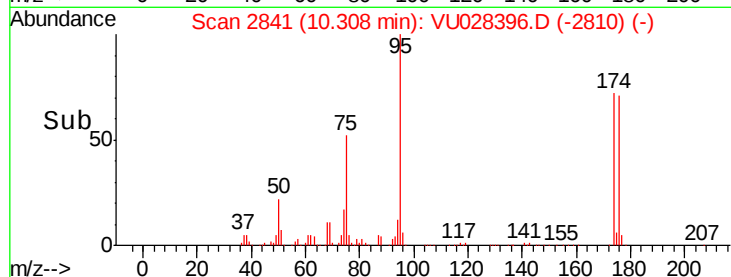
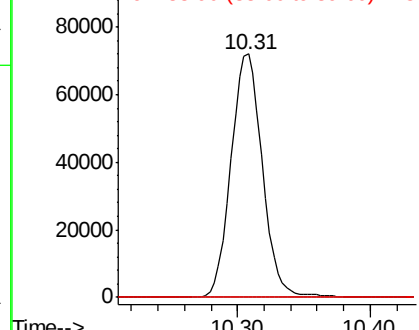
#81
trans-1,4-Dichloro-2-butene
Concen: 54.711 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 118276
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

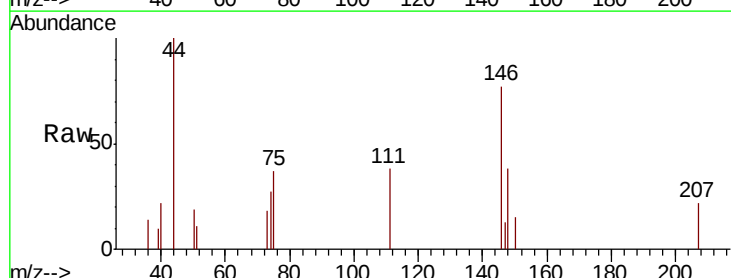


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

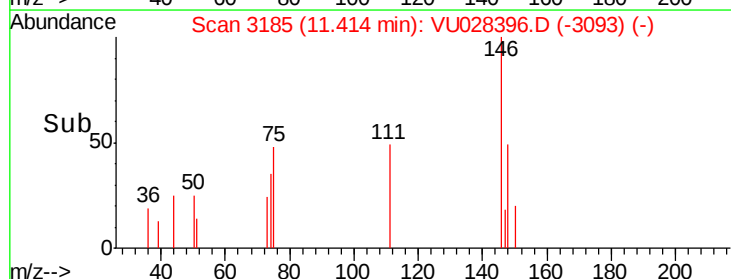
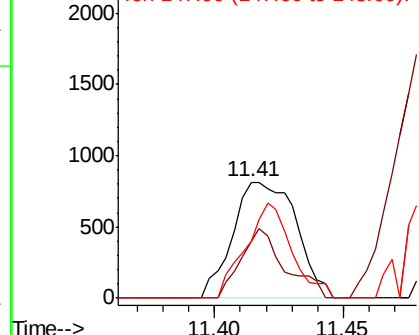


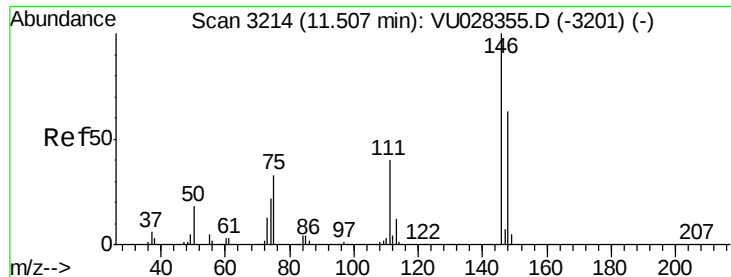
#87
1,3-Dichlorobenzene
Concen: 0.202 ug/l
RT: 11.41 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

Tgt Ion: 146 Resp: 1399
Ion Ratio Lower Upper
146 100
111 41.0 20.8 62.4
148 59.0 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.201 ug/l

RT: 11.41 min Scan# 3185

Delta R.T. -0.09 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

ClientSampled :

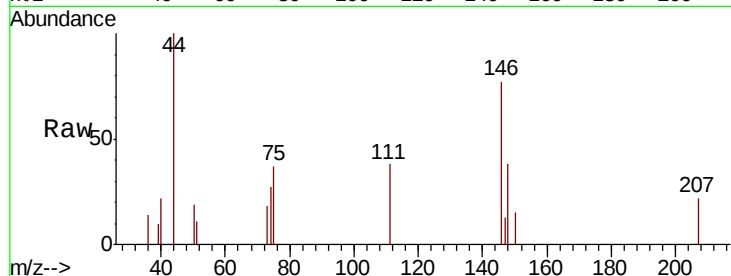
Tot Ion:146 Resp: 1399

Ion Ratio Lower Upper

146 100

111 41.0 20.6 61.9

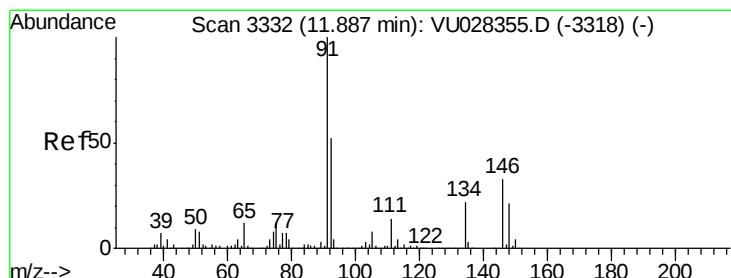
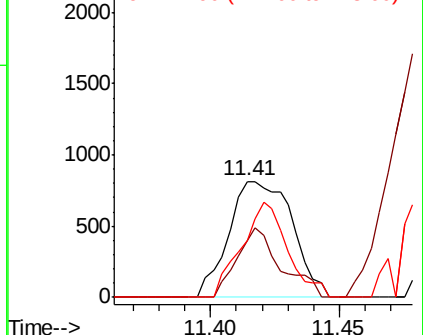
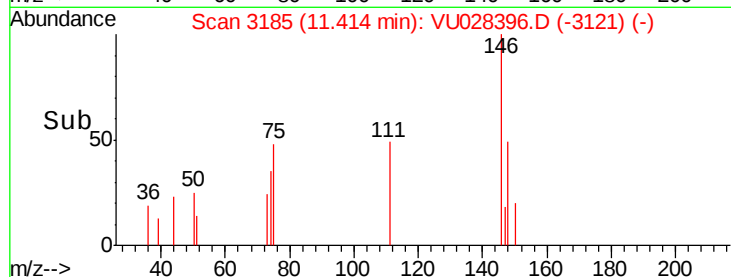
148 59.0 31.1 93.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.204 ug/l

RT: 11.89 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

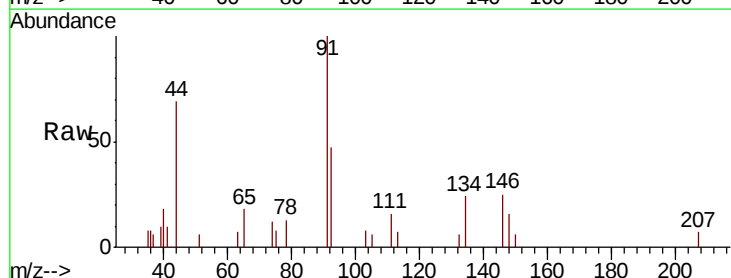
Tgt Ion: 91 Resp: 2725

Ion Ratio Lower Upper

91 100

92 53.2 26.2 78.5

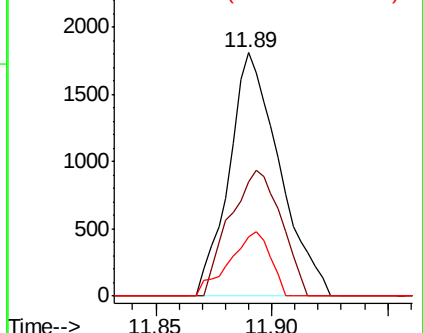
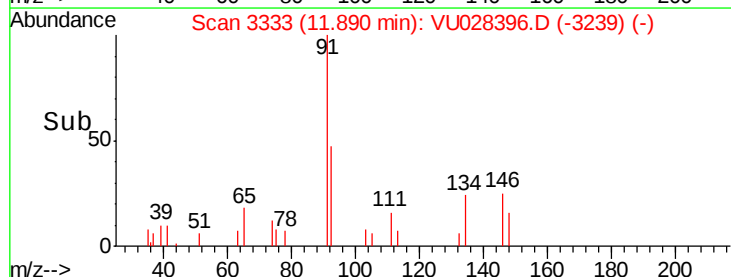
134 21.5 11.1 33.1

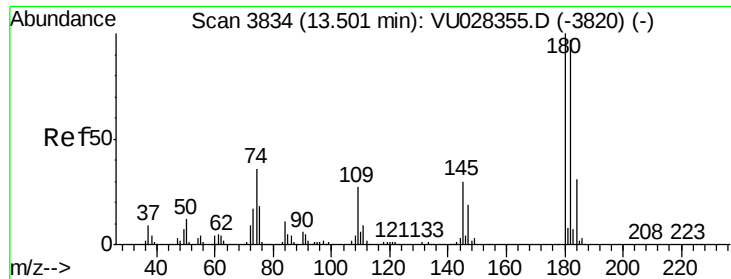


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 0.418 ug/l

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

Instrument :

MSVOA_U

ClientSampleId :

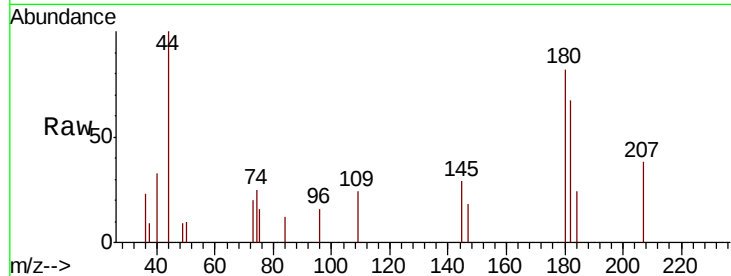
Tot Ion:180 Resp: 1886

Ion Ratio Lower Upper

180 100

182 86.5 48.3 144.9

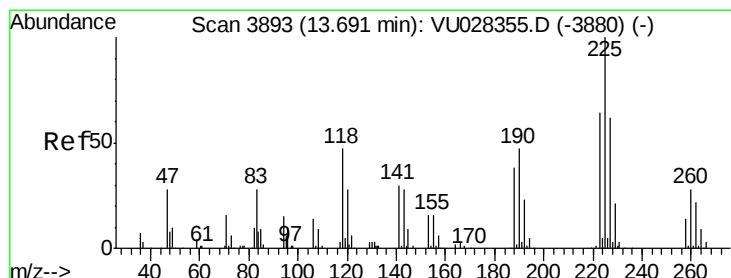
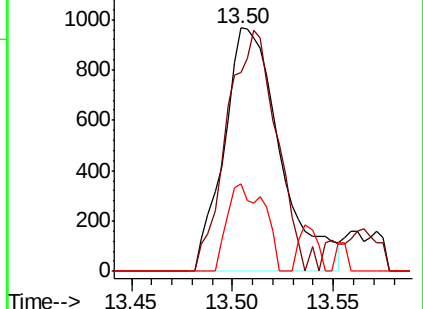
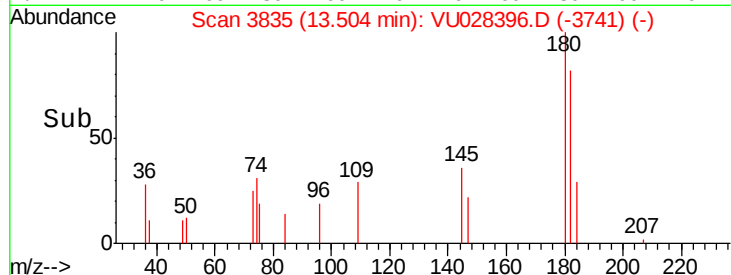
145 23.5 15.2 45.5



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



#94

Hexachlorobutadiene

Concen: 0.302 ug/l

RT: 13.69 min Scan# 3893

Delta R.T. -0.00 min

Lab File: VU028396.D

Acq: 29 Nov 2018 16:10

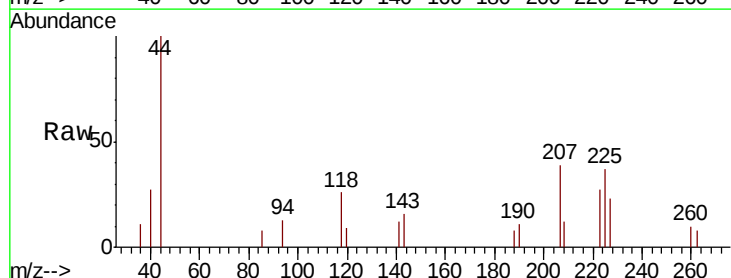
Tgt Ion:225 Resp: 644

Ion Ratio Lower Upper

225 100

223 46.4 31.6 94.7

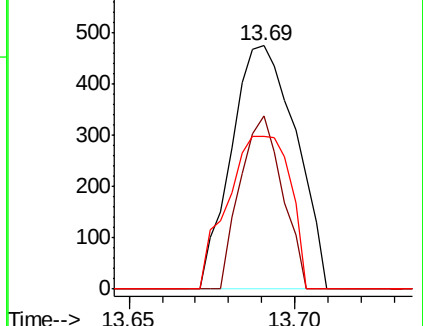
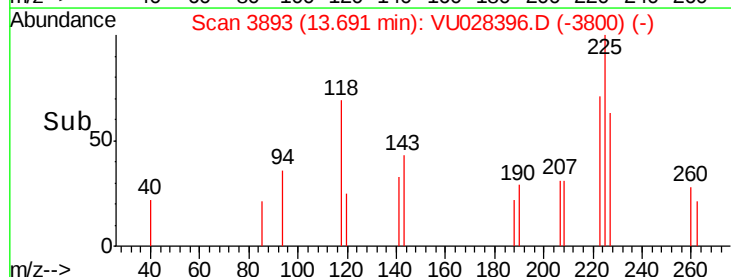
227 60.6 30.8 92.4

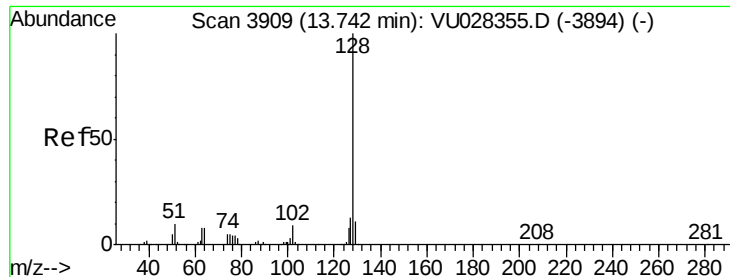


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

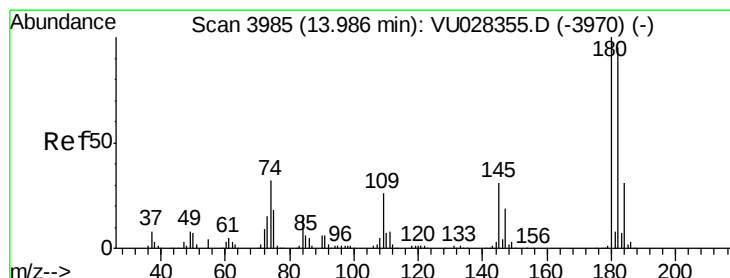
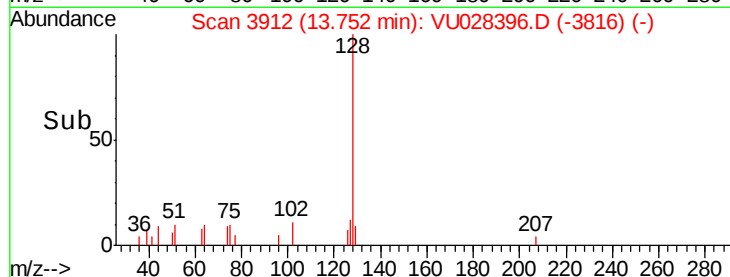
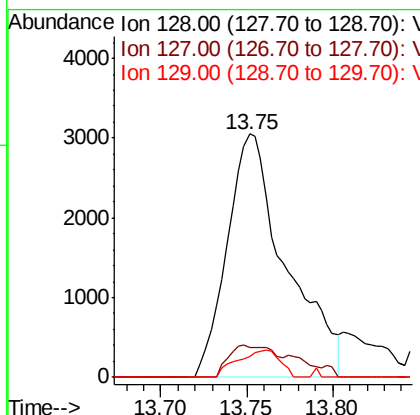
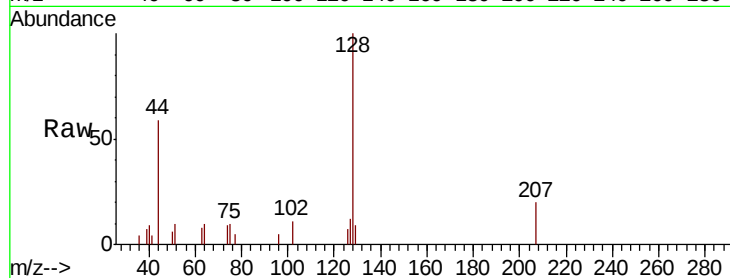




#95
Naphthalene
Concen: 3.226 ug/l
RT: 13.75 min Scan# 3912
Delta R.T. 0.01 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 7210
Ion Ratio Lower Upper
128 100
127 10.3 10.6 15.8#
129 8.1 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.363 ug/l
RT: 13.99 min Scan# 3987
Delta R.T. 0.01 min
Lab File: VU028396.D
Acq: 29 Nov 2018 16:10

Tgt Ion:180 Resp: 1660
Ion Ratio Lower Upper
180 100
182 122.8 47.7 143.1
145 25.2 15.7 47.1

