

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121118\
 Data File : VU028550.D
 Acq On : 10 Dec 2018 14:50
 Operator : MD/SY
 Sample : J6323-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-104D3-20181206

Quant Time: Dec 11 03:37:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	90400	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	167592	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	155005	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69882	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	75218	54.52	ug/l	0.00
Spiked Amount			Recovery	=	109.04%	
35) Dibromofluoromethane	4.88	113	55388	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
50) Toluene-d8	7.57	98	217796	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
62) 4-Bromofluorobenzene	10.30	95	76317	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	

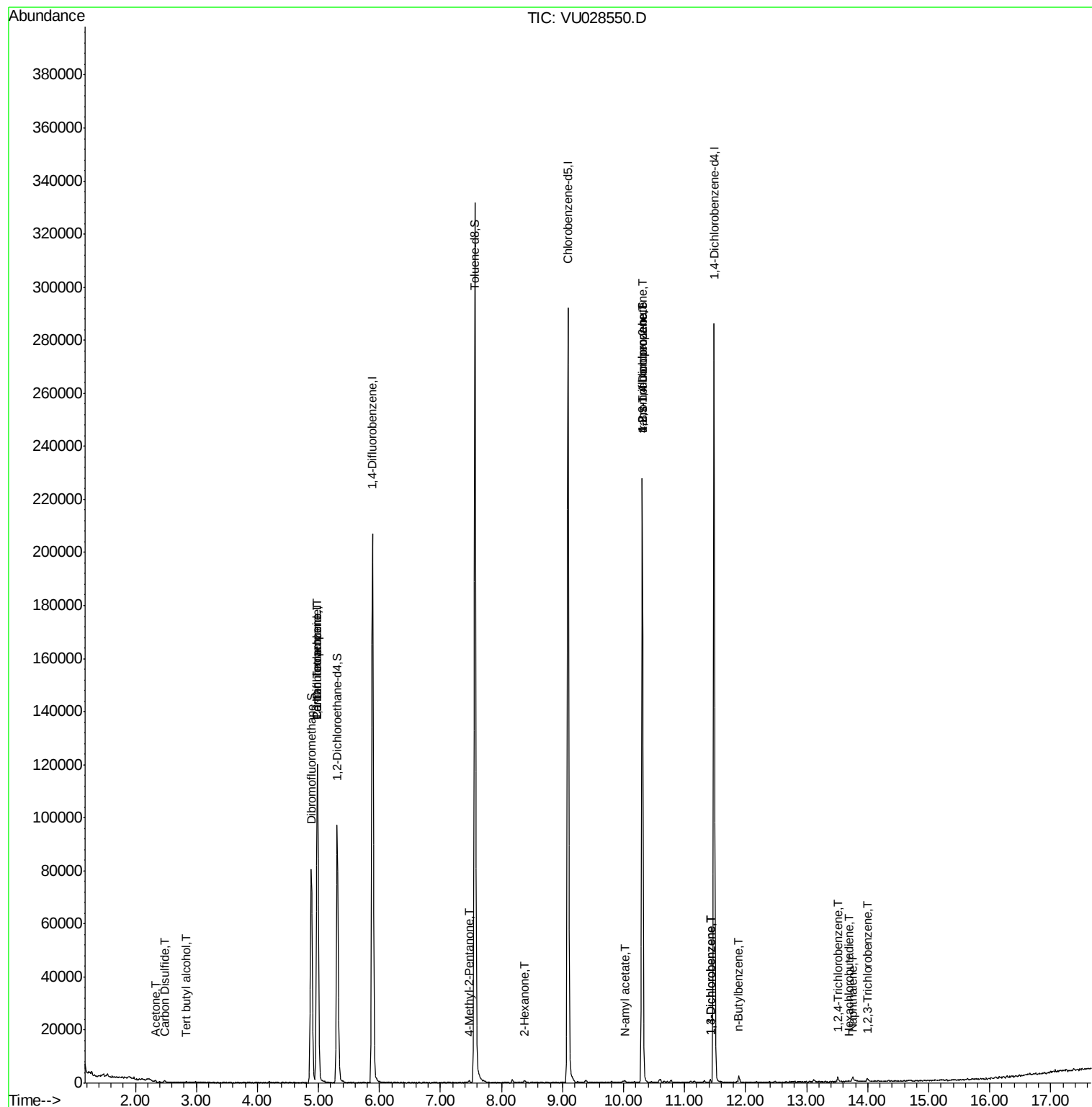
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	407	1.324	ug/l #	73
16) Acetone	2.33	43	415	0.461	ug/l #	44
17) Carbon Disulfide	2.48	76	944	0.260	ug/l #	75
31) Cyclohexane	4.98	56	2189	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8138	4.437	ug/l #	50
38) Carbon Tetrachloride	4.98	117	8945	6.051	ug/l #	15
51) 4-Methyl-2-Pentanone	7.47	43	718	0.304	ug/l	89
59) 2-Hexanone	8.37	43	998	0.532	ug/l	77
74) N-amyl acetate	10.02	43	683	0.221	ug/l #	46
76) 1,2,3-Trichloropropane	10.30	75	40776	22.851	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	40776	56.118	ug/l #	100
87) 1,3-Dichlorobenzene	11.42	146	615	0.260	ug/l #	85
88) 1,4-Dichlorobenzene	11.42	146	615	0.251	ug/l	85
89) n-Butylbenzene	11.89	91	1401	0.296	ug/l	78
93) 1,2,4-Trichlorobenzene	13.51	180	992	1.443	ug/l #	76
94) Hexachlorobutadiene	13.69	225	226	0.291	ug/l #	32
95) Naphthalene	13.75	128	3246	0.571	ug/l #	82
96) 1,2,3-Trichlorobenzene	13.99	180	916	0.710	ug/l	88

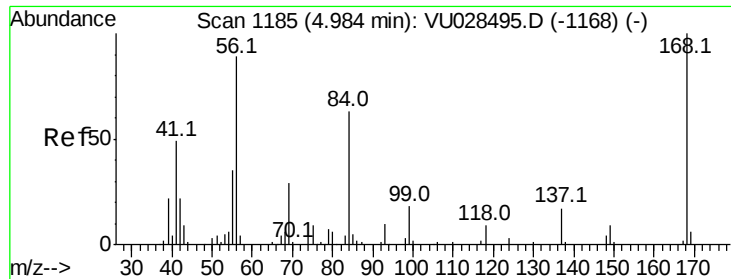
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

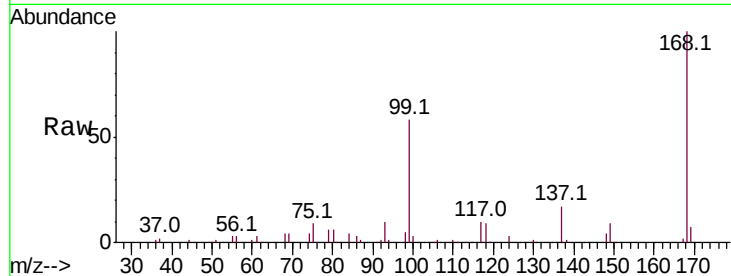
RE-104D3-20181206

Tot Ion:168 Resp: 90400

Ion Ratio Lower Upper

168 100

99 58.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

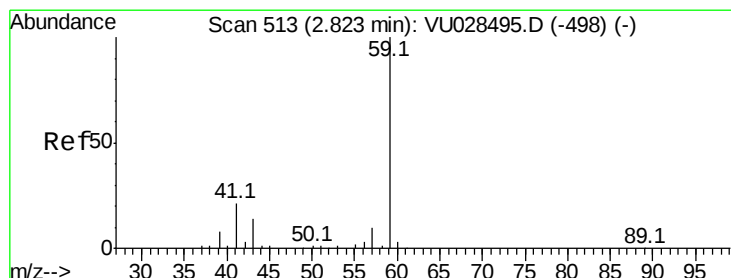
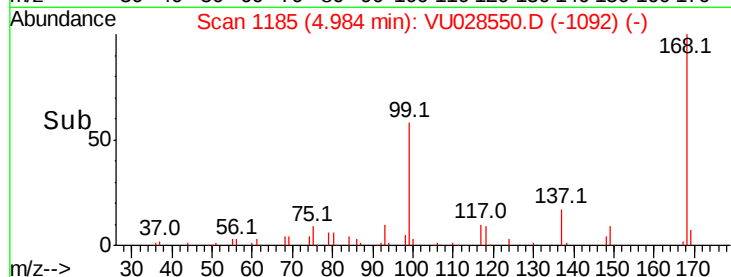
20000

10000

0

4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 1.324 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU028550.D

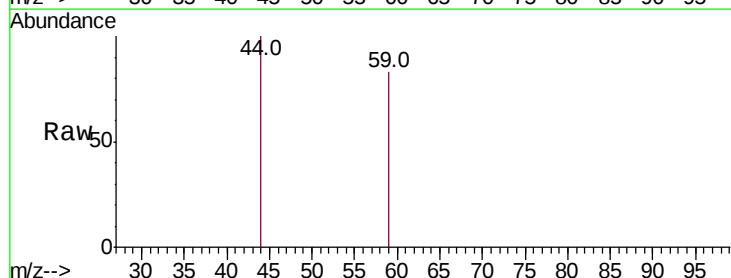
Acq: 10 Dec 2018 14:50

Tgt Ion: 59 Resp: 407

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU028495.D (-498) (-)

Ion 57.00 (56.70 to 57.70): VU028495.D (-498) (-)

2.83

250

200

150

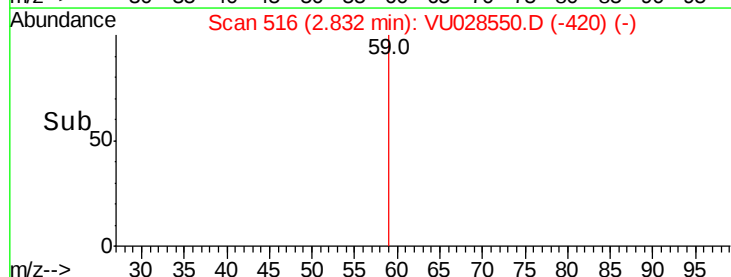
100

50

0

2.78 2.80 2.82 2.84 2.86

Time-->





#16

Acetone

Concen: 0.461 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

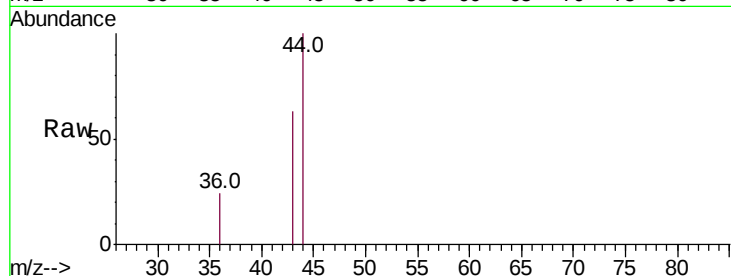
RE-104D3-20181206

Tot Ion: 43 Resp: 415

Ion Ratio Lower Upper

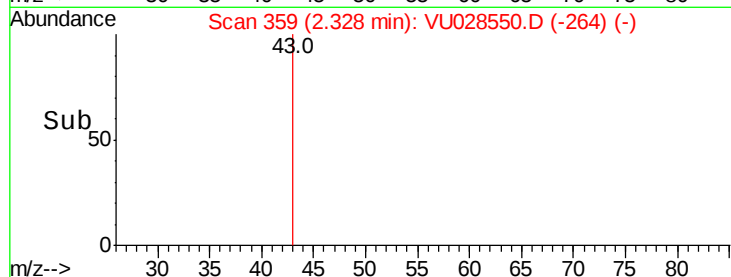
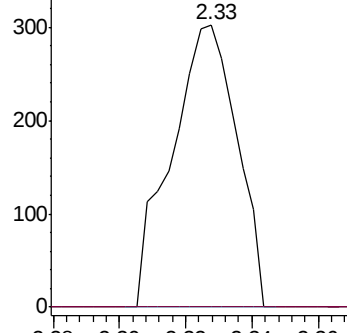
43 100

58 0.0 24.6 37.0#

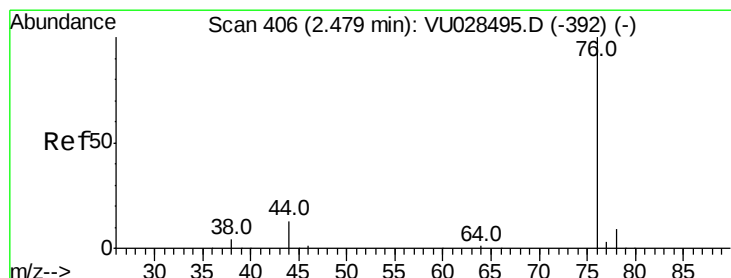


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#17

Carbon Disulfide

Concen: 0.260 ug/l

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU028550.D

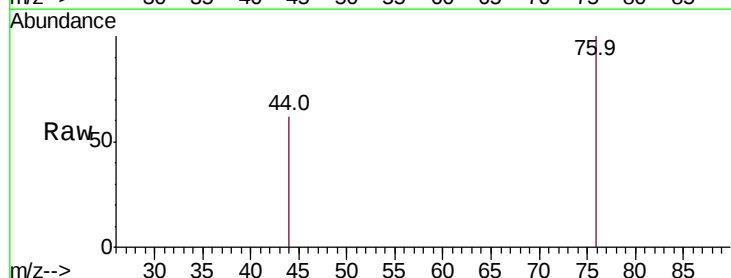
Acq: 10 Dec 2018 14:50

Tgt Ion: 76 Resp: 944

Ion Ratio Lower Upper

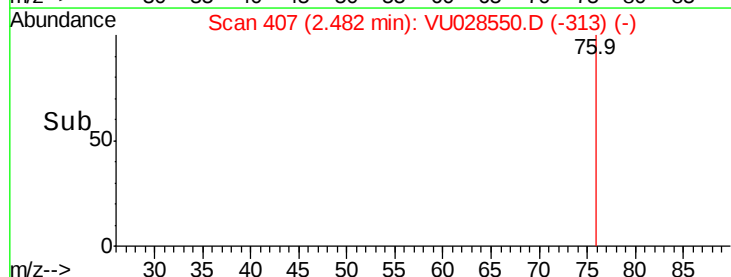
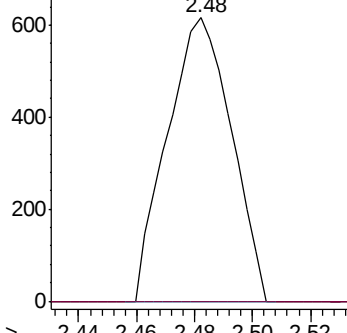
76 100

78 0.0 7.2 10.8#

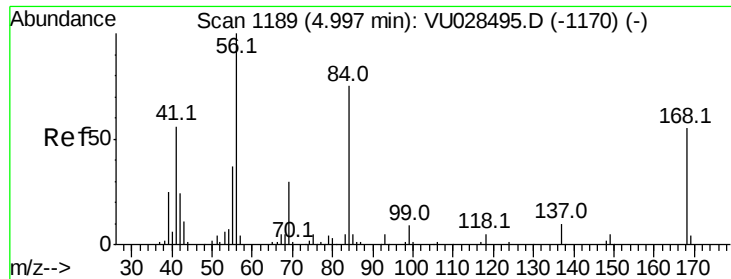


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



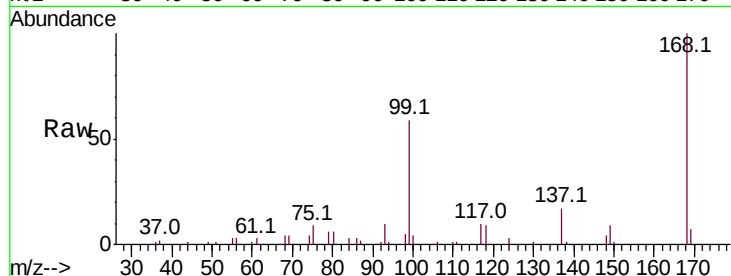
Time-->



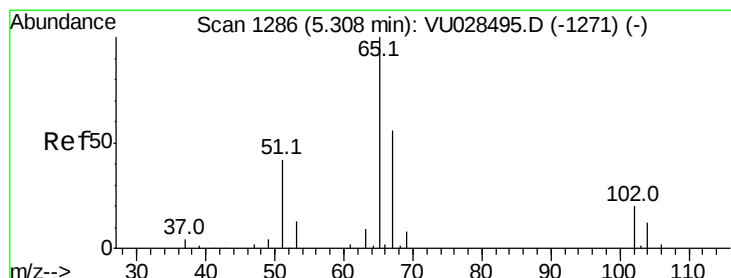
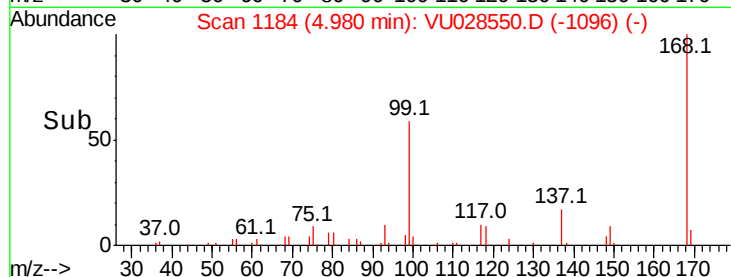
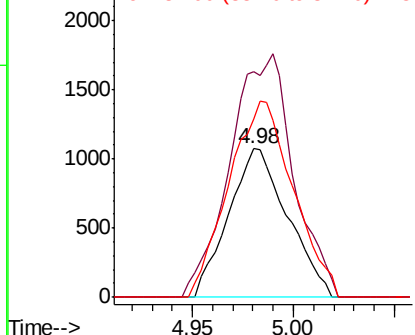
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Instrument :
MSVOA_U
ClientSampleId :
RE-104D3-20181206

Tot Ion: 56 Resp: 2189
Ion Ratio Lower Upper
56 100
69 152.3 24.0 36.0#
84 119.9 59.7 89.5#

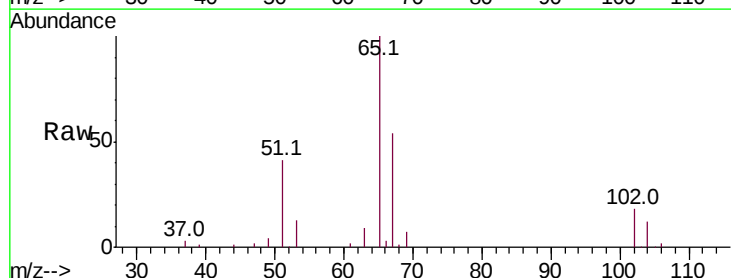


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

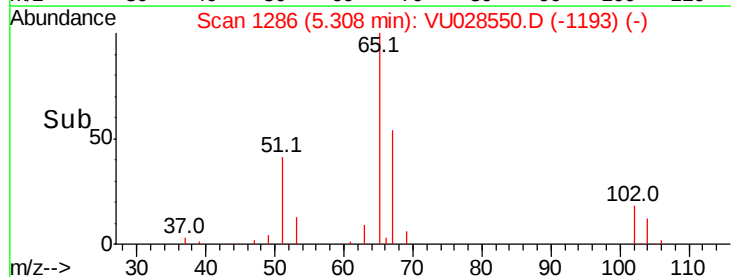
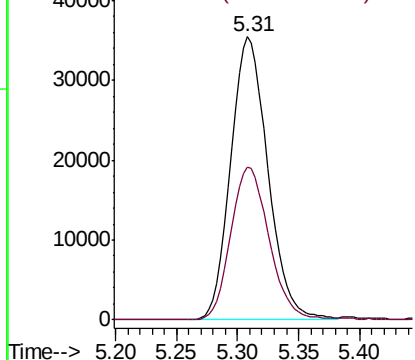


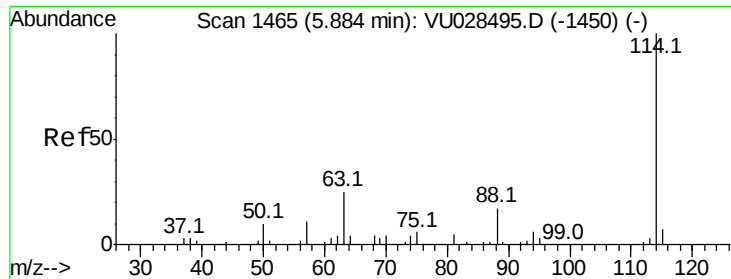
#33
1,2-Dichloroethane-d4
Concen: 54.523 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Tgt Ion: 65 Resp: 75218
Ion Ratio Lower Upper
65 100
67 55.5 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: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

RE-104D3-20181206

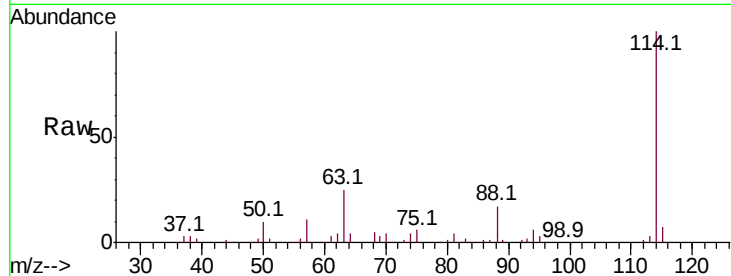
Tot Ion:114 Resp: 167592

Ion Ratio Lower Upper

114 100

63 25.1 0.0 49.2

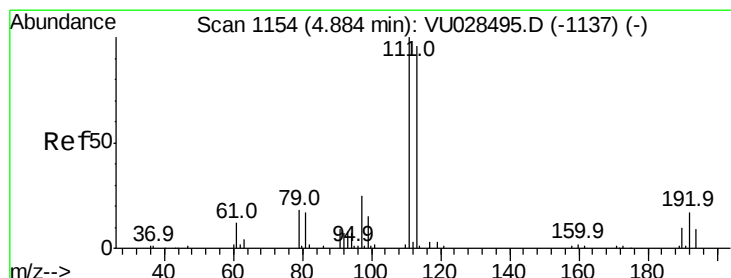
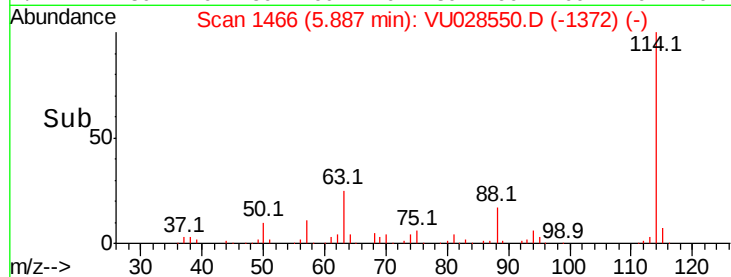
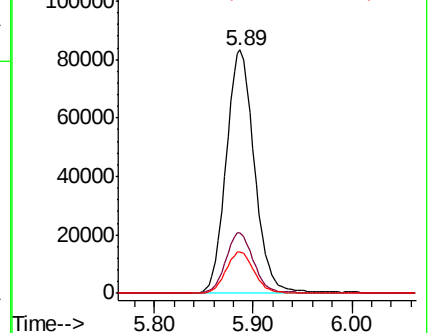
88 17.2 0.0 33.4



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: 52.517 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. -0.00 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

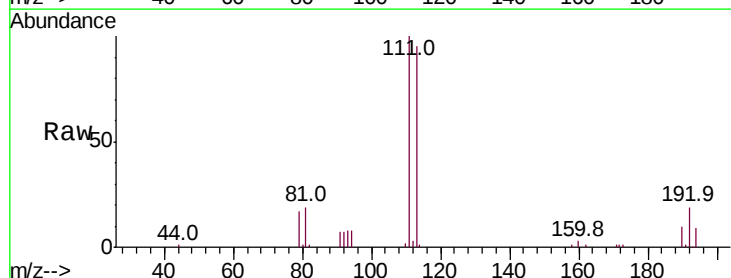
Tgt Ion:113 Resp: 55388

Ion Ratio Lower Upper

113 100

111 105.4 83.4 125.0

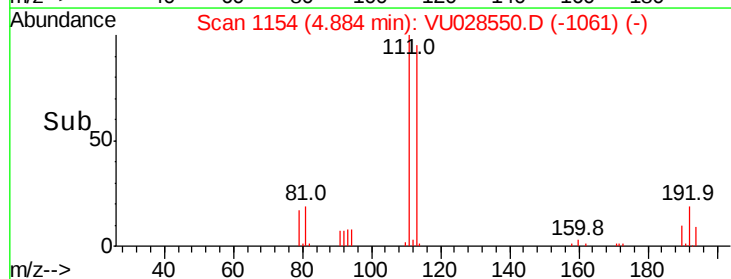
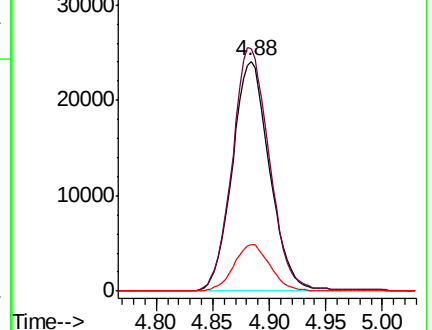
192 19.6 14.8 22.2

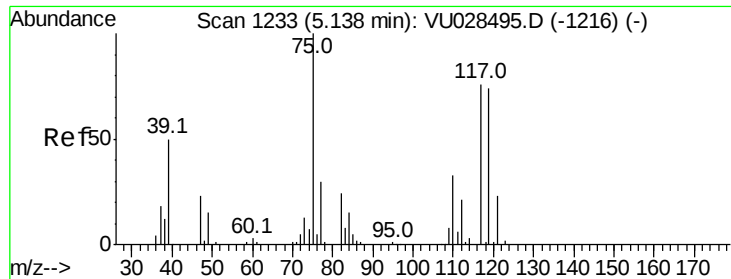


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.437 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

RE-104D3-20181206

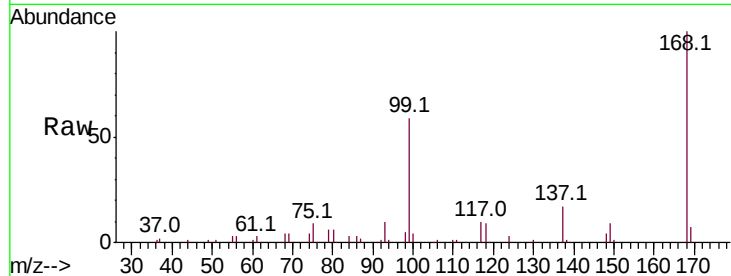
Tot Ion: 75 Resp: 8138

Ion Ratio Lower Upper

75 100

110 7.0 16.1 48.2#

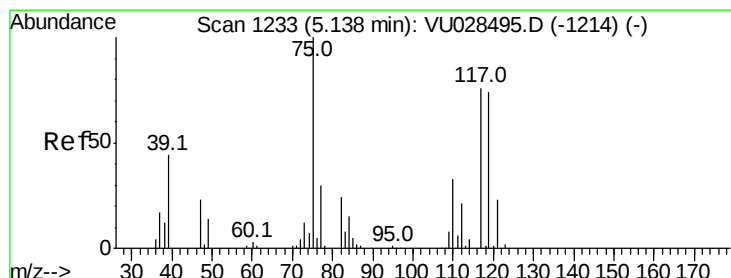
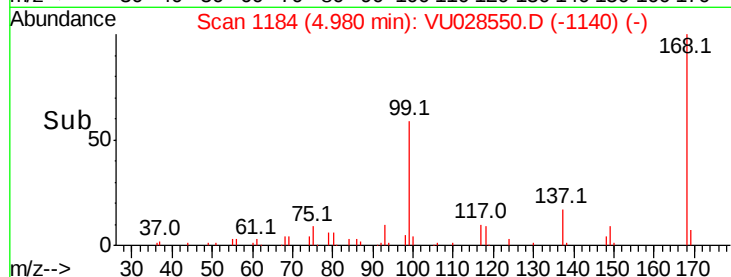
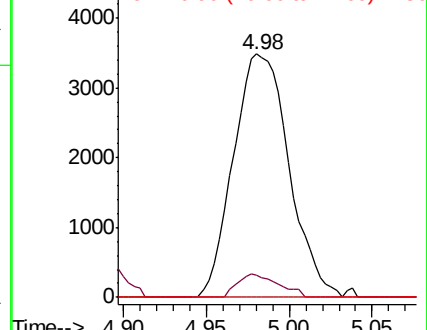
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-1216) (-)

Ion 109.90 (109.60 to 110.60): VU028495.D (-1216) (-)

Ion 76.90 (76.60 to 77.60): VU028495.D (-1216) (-)



#38

Carbon Tetrachloride

Concen: 6.051 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

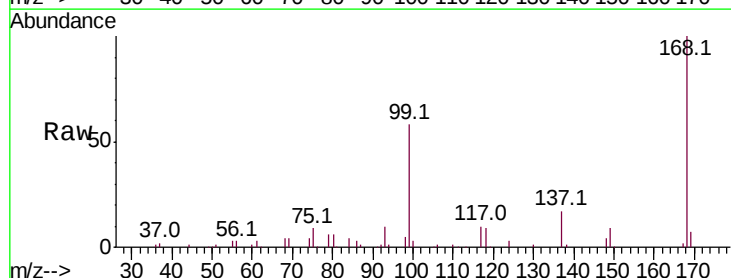
Tgt Ion: 117 Resp: 8945

Ion Ratio Lower Upper

117 100

119 4.1 77.6 116.4#

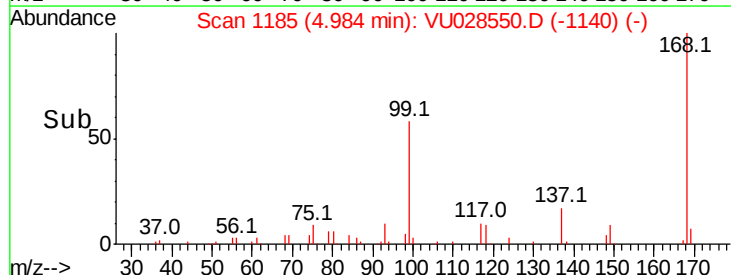
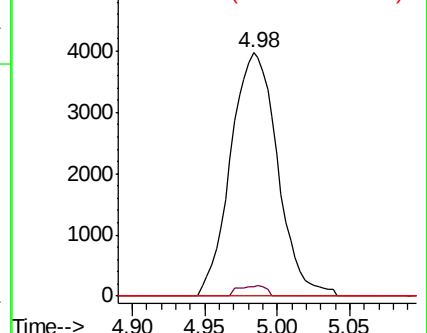
121 0.0 24.6 36.8#

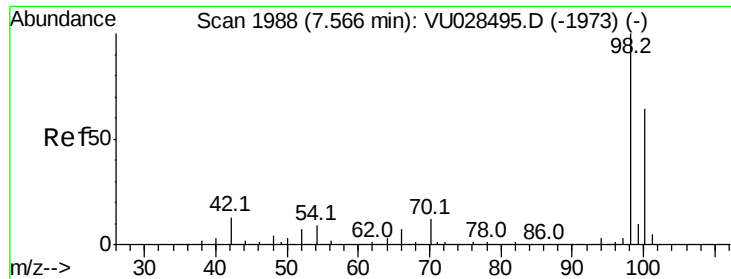


Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU028495.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU028495.D (-1214) (-)





#50

Toluene-d8

Concen: 52.203 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

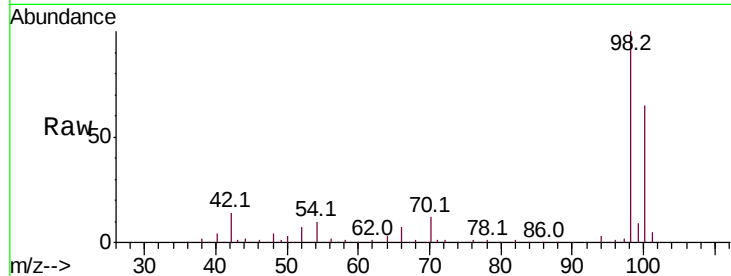
RE-104D3-20181206

Tot Ion: 98 Resp: 217796

Ion Ratio Lower Upper

98 100

100 64.7 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

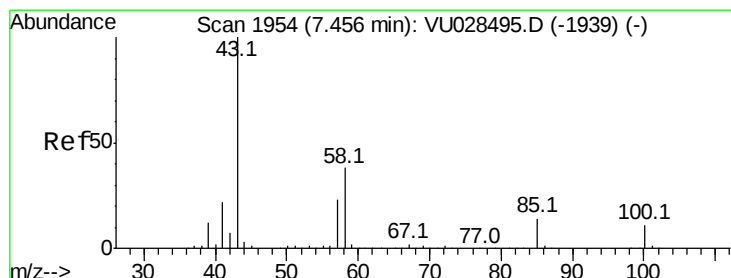
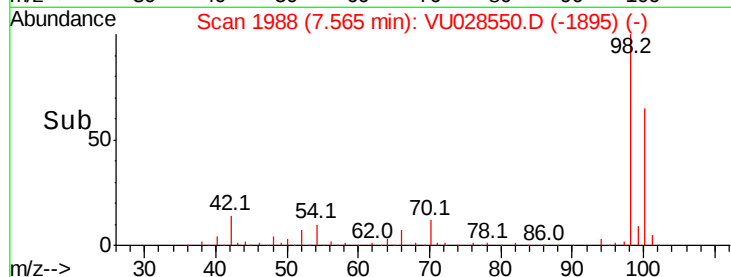
7.57

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.304 ug/l

RT: 7.47 min Scan# 1959

Delta R.T. 0.02 min

Lab File: VU028550.D

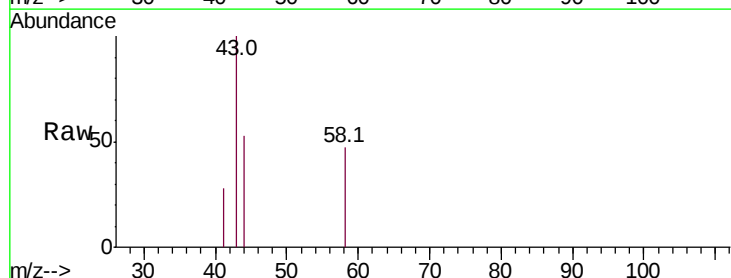
Acq: 10 Dec 2018 14:50

Tgt Ion: 43 Resp: 718

Ion Ratio Lower Upper

43 100

58 30.9 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

7.47

400

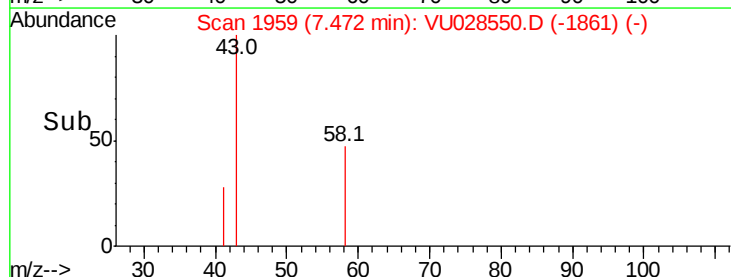
300

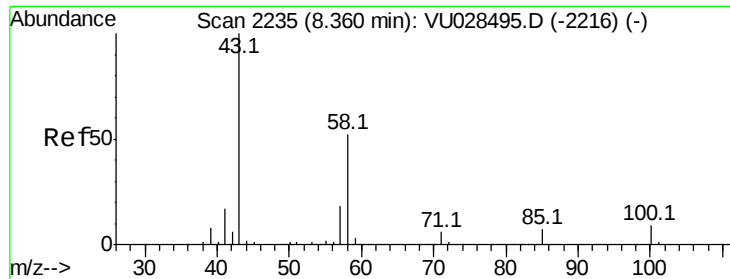
200

100

0

Time-->

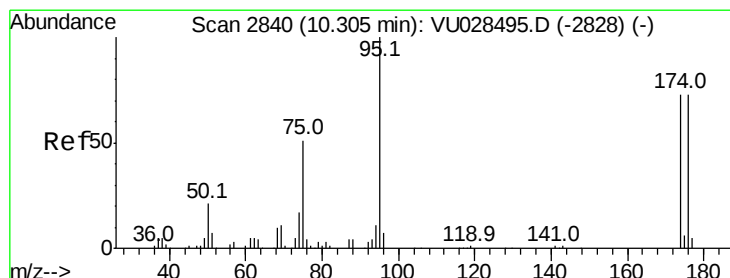
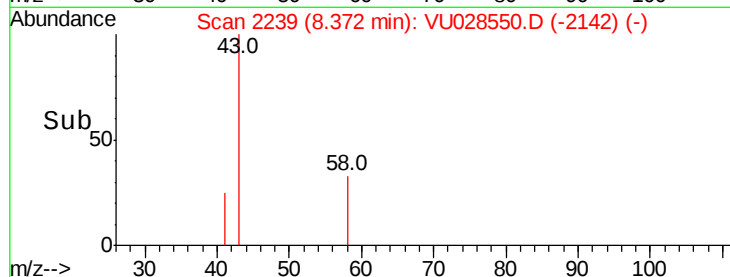
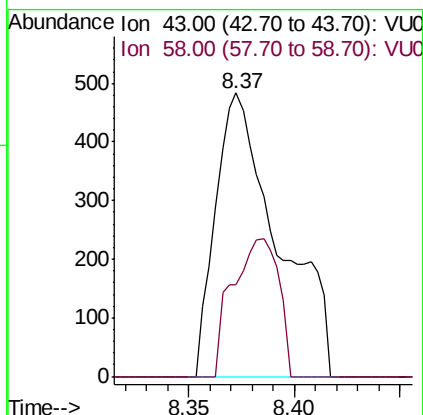
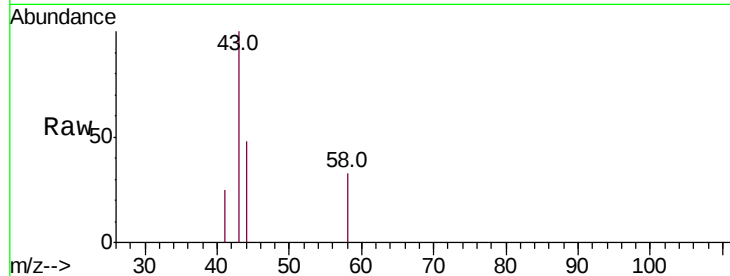




#59
2-Hexanone
Concen: 0.532 ug/l
RT: 8.37 min Scan# 2239
Delta R.T. 0.01 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

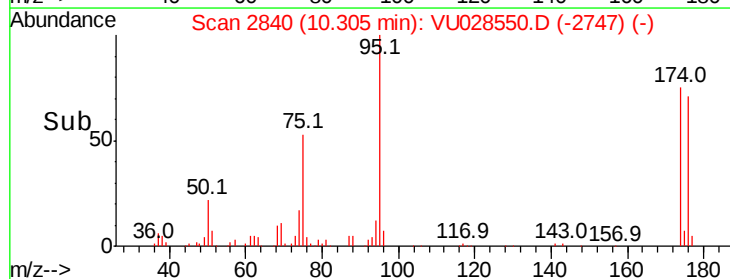
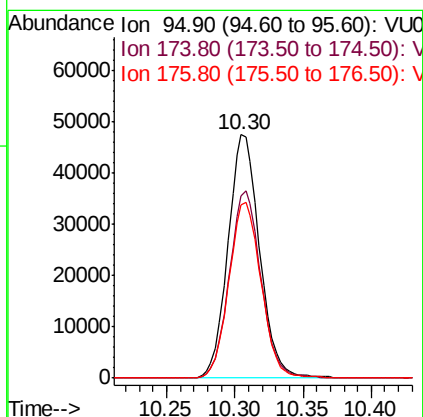
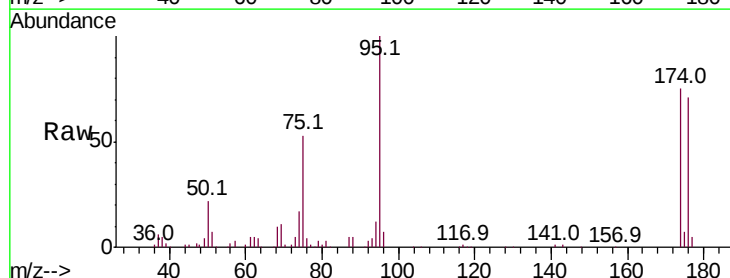
Instrument :
MSVOA_U
ClientSampleId :
RE-104D3-20181206

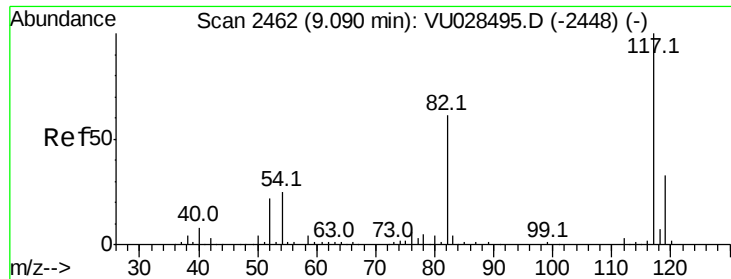
Tot Ion: 43 Resp: 998
Ion Ratio Lower Upper
43 100
58 35.7 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 48.941 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Tgt Ion: 95 Resp: 76317
Ion Ratio Lower Upper
95 100
174 77.2 0.0 150.4
176 73.8 0.0 145.2

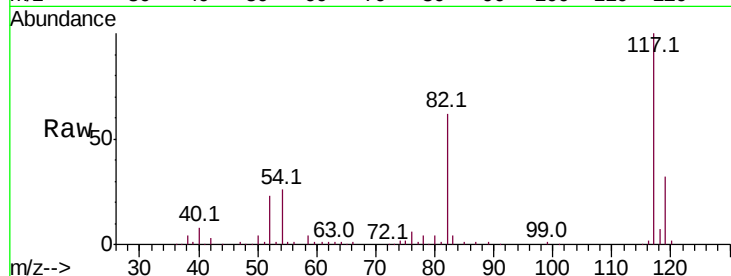




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Instrument :
MSVOA_U
ClientSampleId :
RE-104D3-20181206

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.5	48.9	73.3
119	32.0	26.2	39.4

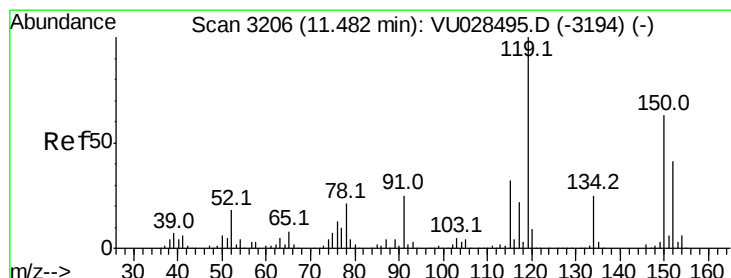
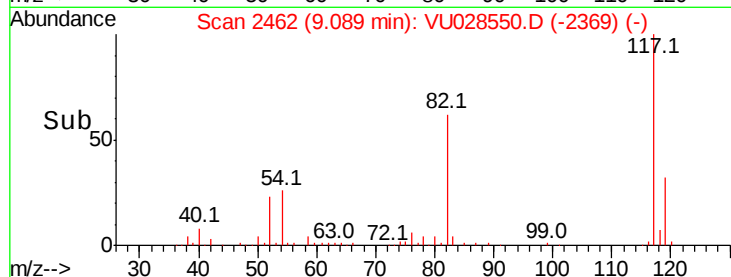
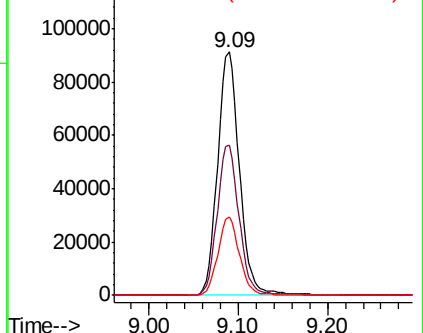


Abundance

Ion 116.90 (116.60 to 117.60): V

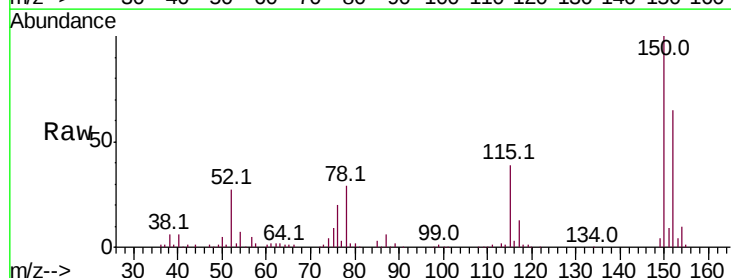
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.0	42.7	128.1
150	157.1	0.0	346.0

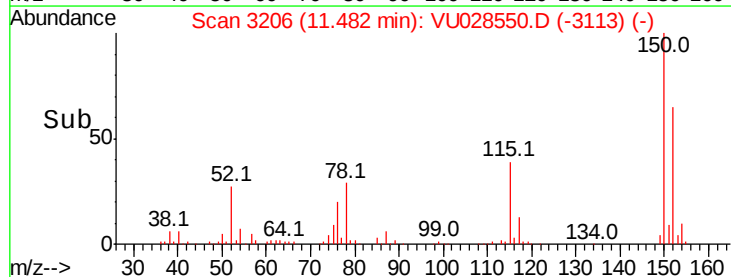
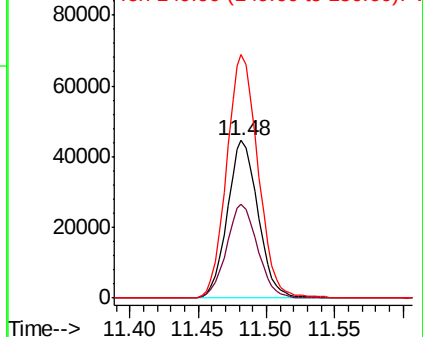


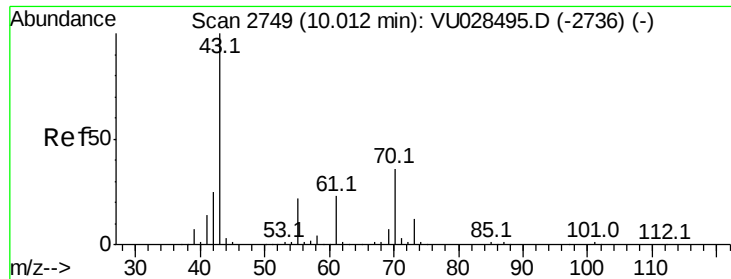
Abundance

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

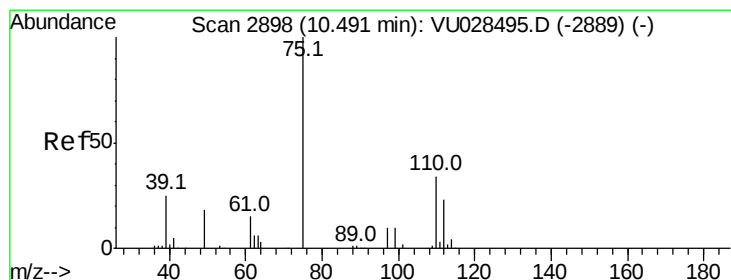
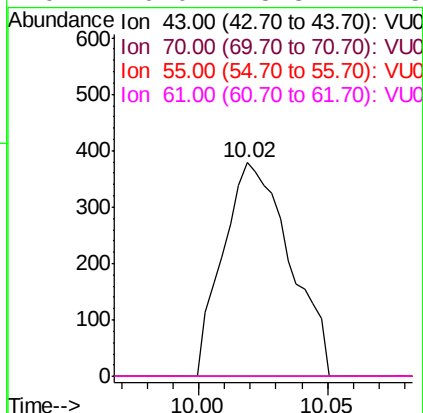
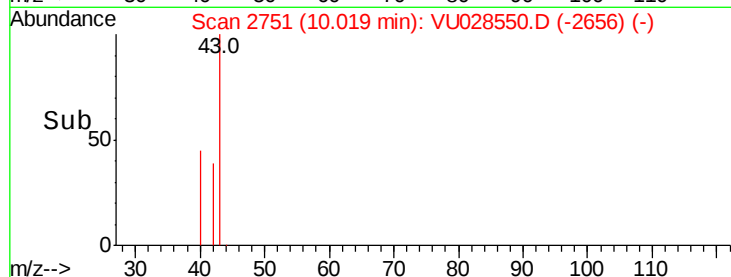
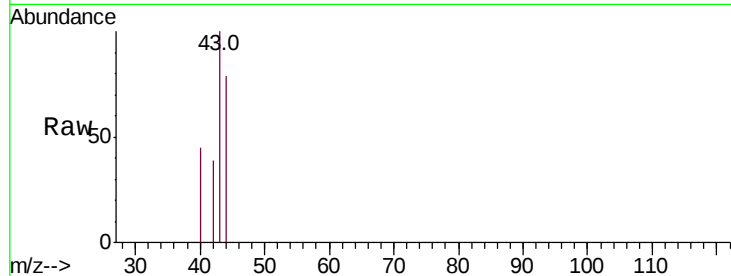




#74
N-amvl acetate
Concen: 0.221 ug/l
RT: 10.02 min Scan# 2751
Delta R.T. 0.01 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

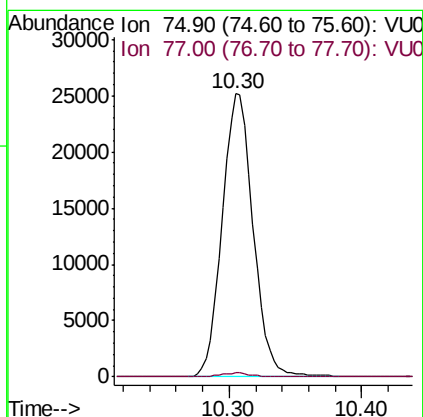
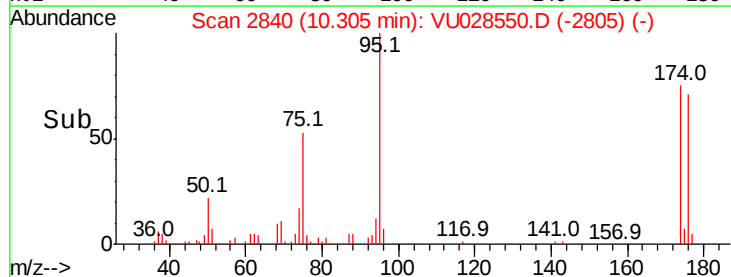
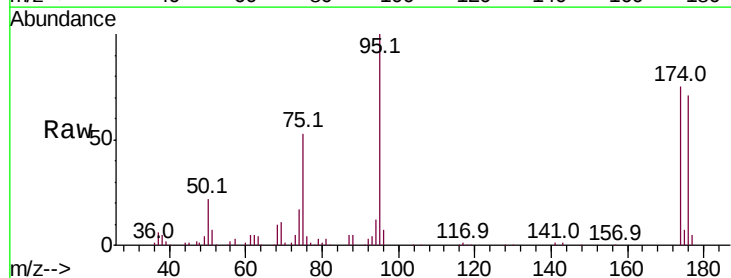
Instrument :
MSVOA_U
ClientSampleId :
RE-104D3-20181206

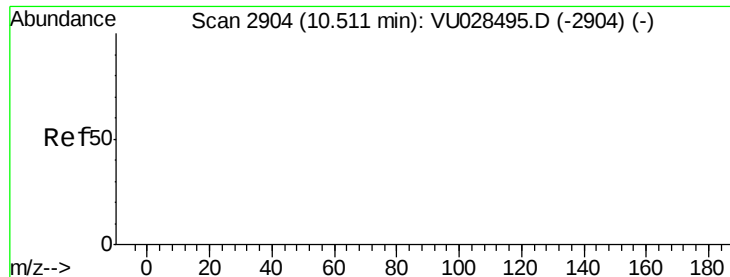
Tot Ion: 43 Resp: 683
Ion Ratio Lower Upper
43 100
70 0.0 29.3 43.9#
55 0.0 18.0 27.0#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 22.851 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.19 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Tgt Ion: 75 Resp: 40776
Ion Ratio Lower Upper
75 100
77 1.2 20.8 62.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 56.118 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

RE-104D3-20181206

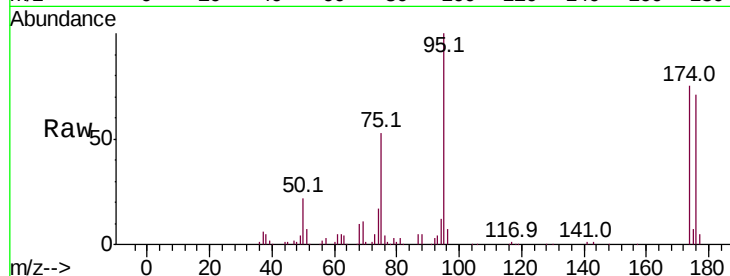
Tot Ion: 75 Resp: 40776

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

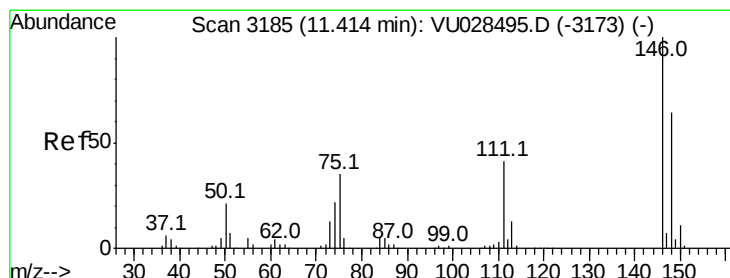
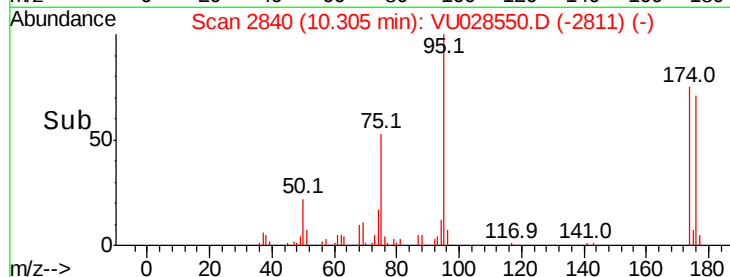
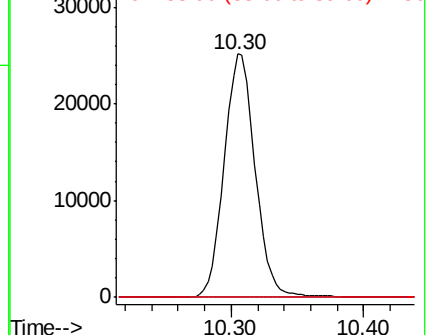
89 0.0 0.0 0.0



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: 0.260 ug/l

RT: 11.42 min Scan# 3187

Delta R.T. 0.01 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

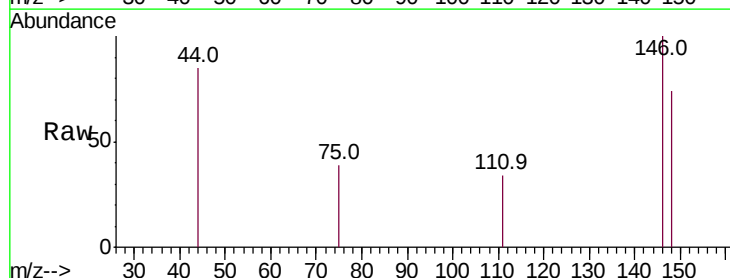
Tgt Ion: 146 Resp: 615

Ion Ratio Lower Upper

146 100

111 20.5 20.7 62.1#

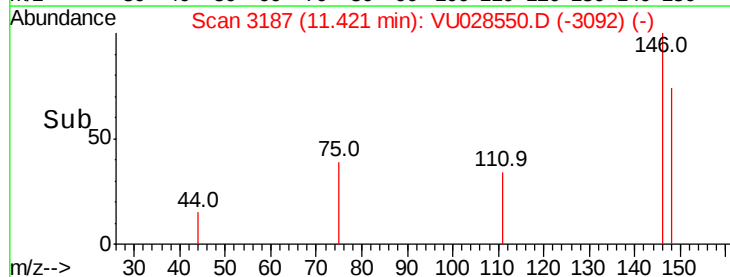
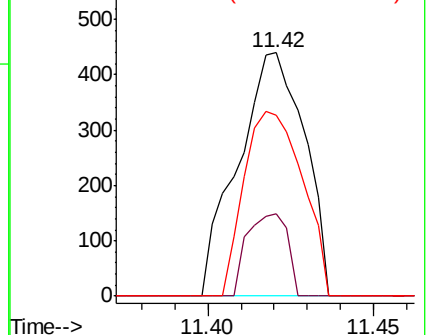
148 66.8 31.9 95.7

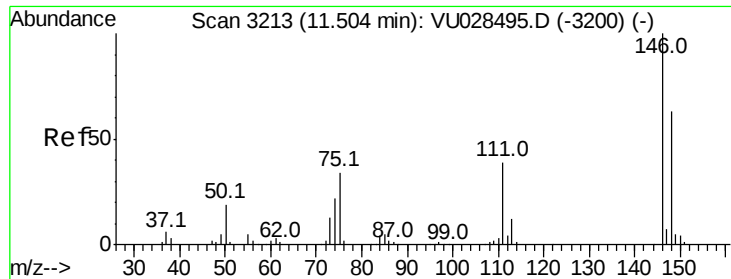


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.251 ug/l

RT: 11.42 min Scan# 3187

Delta R.T. -0.08 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

Instrument :

MSVOA_U

ClientSampleId :

RE-104D3-20181206

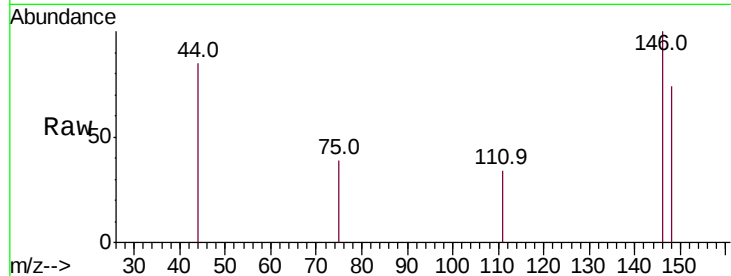
Tot Ion:146 Resp: 615

Ion Ratio Lower Upper

146 100

111 20.5 20.2 60.5

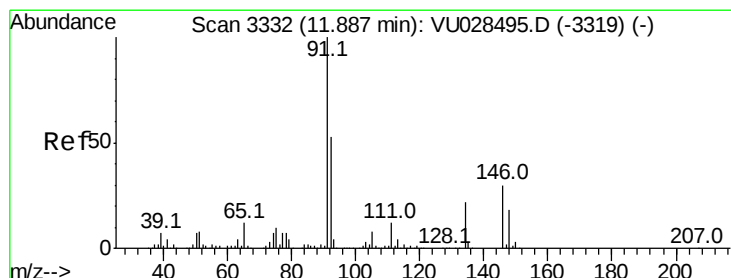
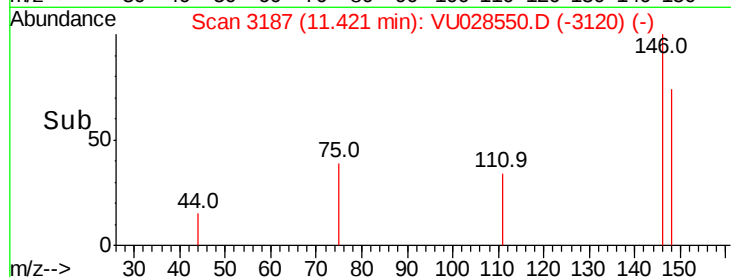
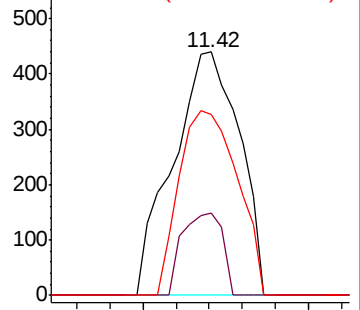
148 66.8 31.6 95.0



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: 0.296 ug/l

RT: 11.89 min Scan# 3334

Delta R.T. 0.01 min

Lab File: VU028550.D

Acq: 10 Dec 2018 14:50

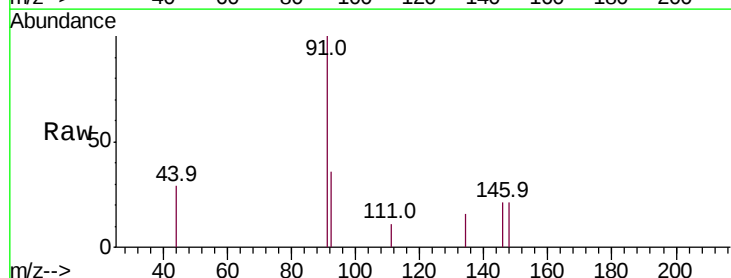
Tgt Ion: 91 Resp: 1401

Ion Ratio Lower Upper

91 100

92 36.4 26.3 78.9

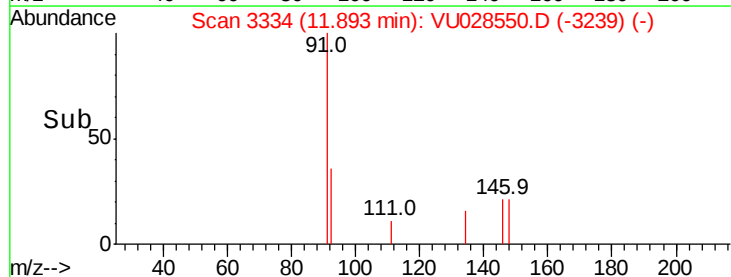
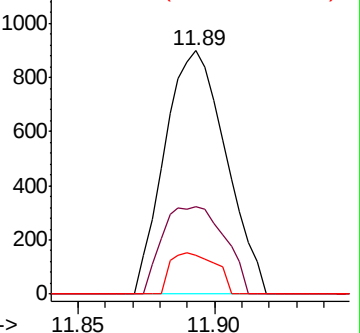
134 12.5 11.3 33.8

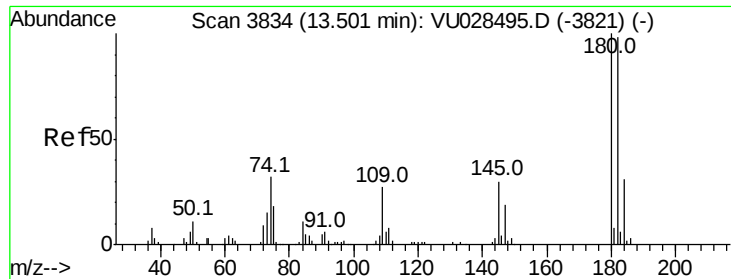


Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

Ion 134.00 (133.70 to 134.70): V

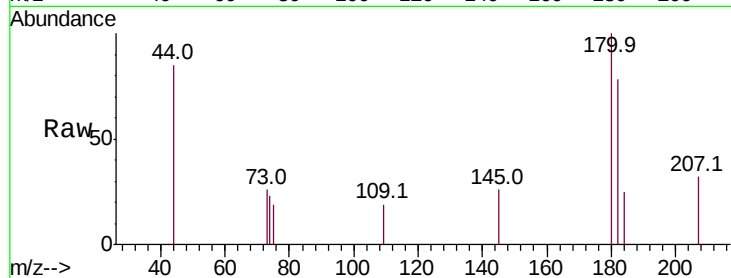




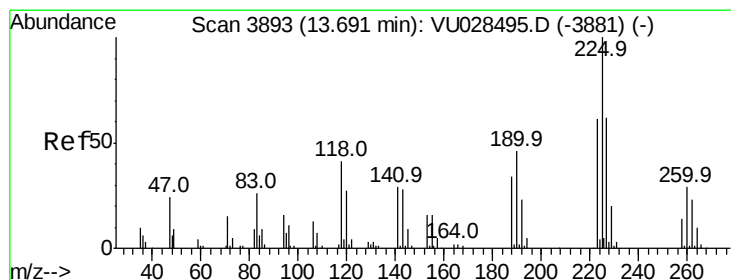
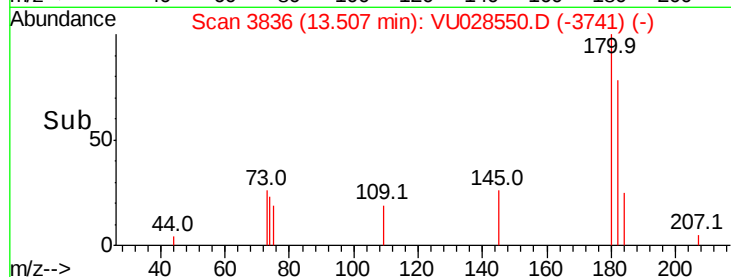
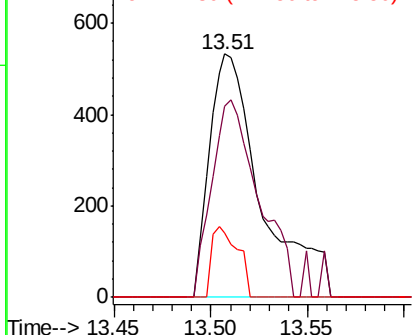
#93
 1,2,4-Trichlorobenzene
 Concen: 1.443 ug/l
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.01 min
 Lab File: VU028550.D
 Acq: 10 Dec 2018 14:50

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-104D3-20181206

Tot Ion:180 Resp: 992
 Ion Ratio Lower Upper
 180 100
 182 73.3 47.9 143.8
 145 14.7 15.0 45.1#

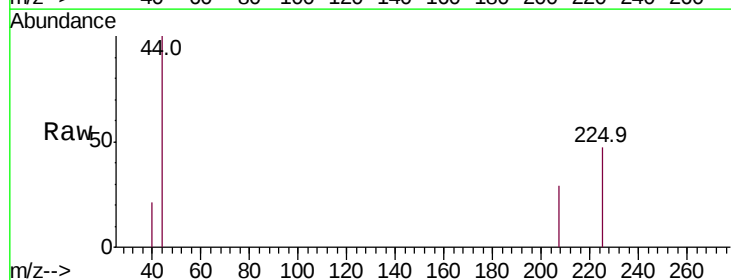


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

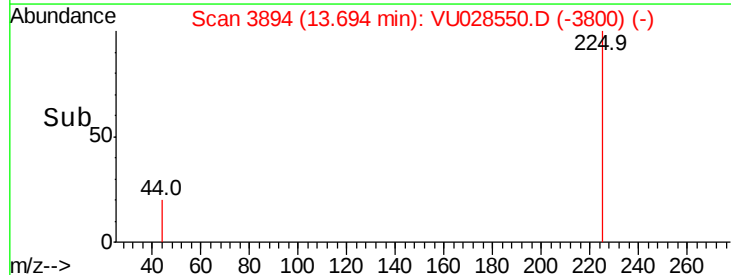
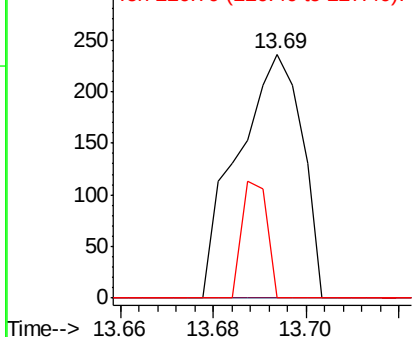


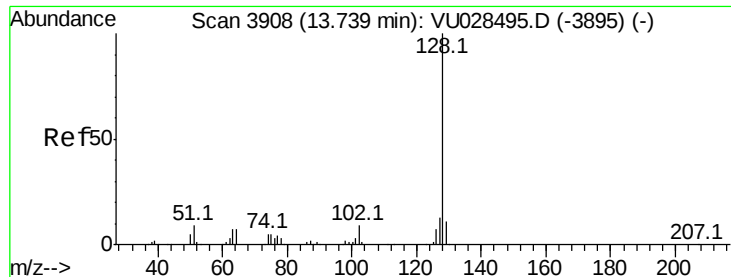
#94
 Hexachlorobutadiene
 Concen: 0.291 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU028550.D
 Acq: 10 Dec 2018 14:50

Tgt Ion:225 Resp: 226
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.4 91.2#
 227 18.6 30.7 92.1#



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

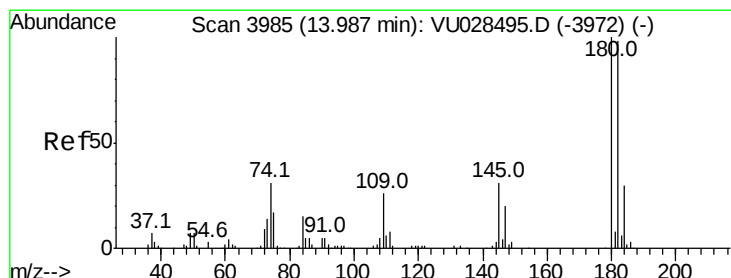
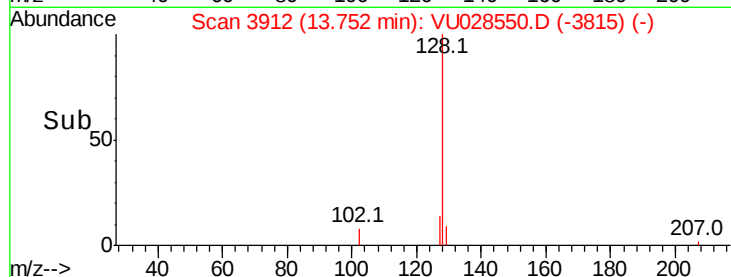
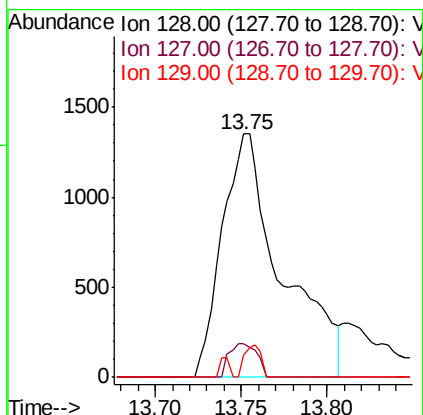
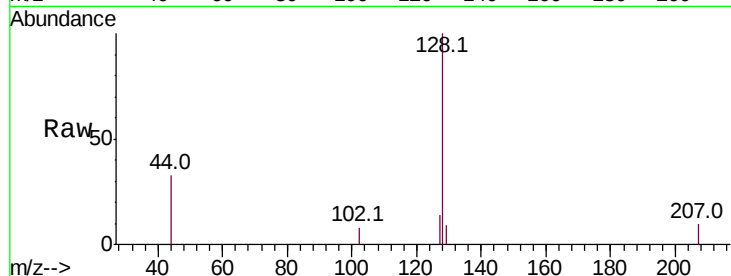




#95
Naphthalene
Concen: 0.571 ug/l
RT: 13.75 min Scan# 3912
Delta R.T. 0.01 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Instrument :
MSVOA_U
ClientSampleId :
RE-104D3-20181206

Tot Ion:128 Resp: 3246
Ion Ratio Lower Upper
128 100
127 6.4 10.4 15.6#
129 3.7 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.710 ug/l
RT: 13.99 min Scan# 3987
Delta R.T. 0.01 min
Lab File: VU028550.D
Acq: 10 Dec 2018 14:50

Tgt Ion:180 Resp: 916
Ion Ratio Lower Upper
180 100
182 84.6 48.2 144.6
145 24.3 15.8 47.3

