

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028085.D
 Acq On : 13 Nov 2018 12:29
 Operator : MD/SY
 Sample : J5921-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 06:56:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	227684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	426315	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	380159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	155783	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	182166	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	
35) Dibromofluoromethane	4.88	113	137956	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
50) Toluene-d8	7.57	98	543792	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
62) 4-Bromofluorobenzene	10.31	95	181737	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	

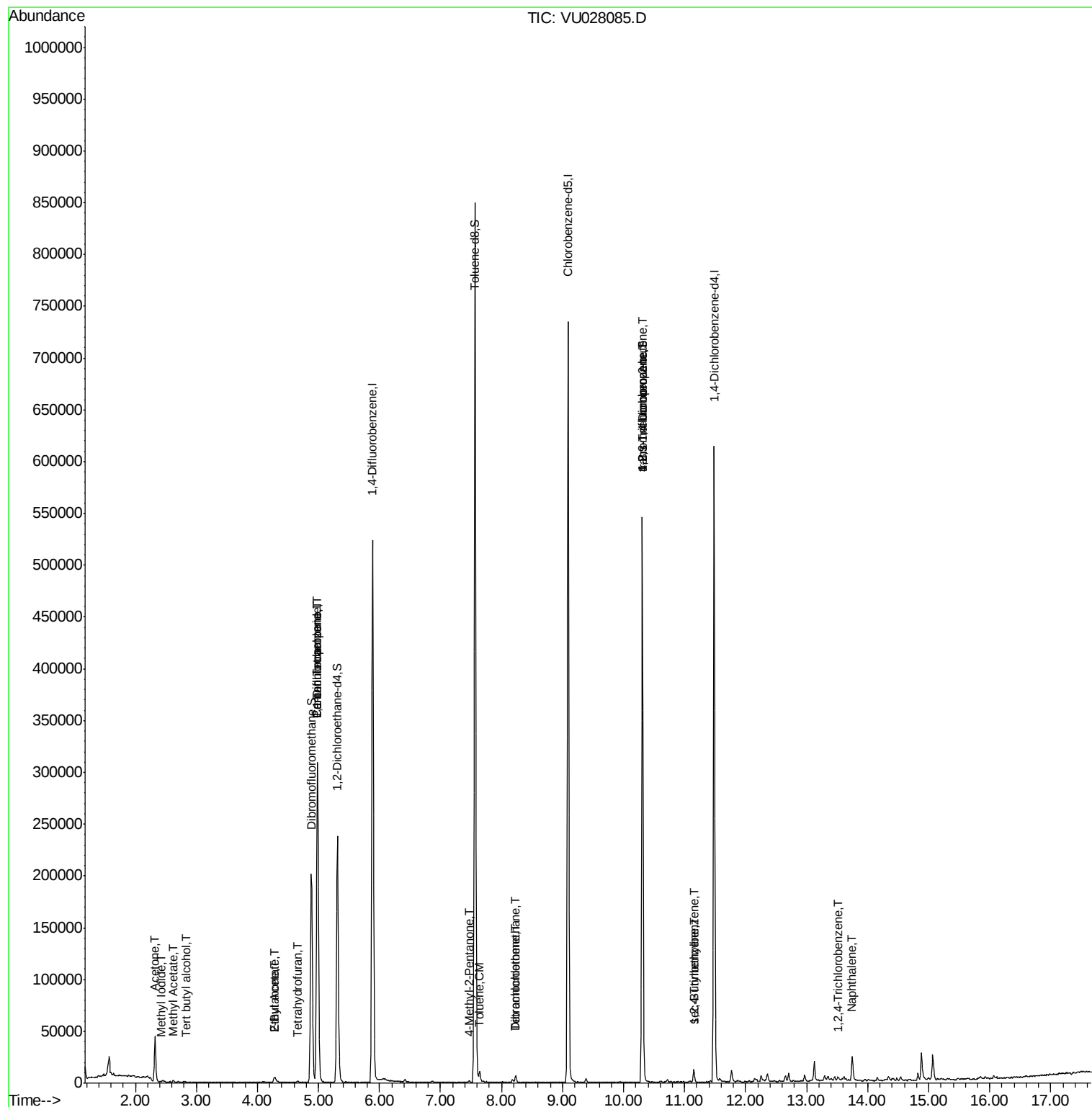
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.42	142	21	7.768	ug/l #	40
11) Tert butyl alcohol	2.84	59	630	0.703	ug/l #	73
13) Acrolein	2.19	56	217	Below Cal	#	1
16) Acetone	2.32	43	45223	21.532	ug/l	98
18) Methyl Acetate	2.62	43	2480	0.429	ug/l #	91
25) 2-Butanone	4.28	43	9663	2.892	ug/l	100
29) Tetrahydrofuran	4.66	42	953	0.427	ug/l #	68
31) Cyclohexane	4.98	56	6010	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	20517	4.595	ug/l #	48
37) Ethyl Acetate	4.28	43	9663	1.477	ug/l #	71
38) Carbon Tetrachloride	4.98	117	23145	5.849	ug/l #	16
51) 4-Methyl-2-Pentanone	7.47	43	1699	0.248	ug/l #	78
52) Toluene	7.65	92	4274	0.533	ug/l	96
60) Dibromochloromethane	8.23	129	1407	0.455	ug/l #	10
64) Tetrachloroethene	8.23	164	1268	0.514	ug/l #	77
76) 1,2,3-Trichloropropane	10.31	75	93099	21.848	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	93099	54.527	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	7750	0.770	ug/l	99
85) sec-Butylbenzene	11.15	105	7750	0.638	ug/l #	59
93) 1,2,4-Trichlorobenzene	13.51	180	41	0.696	ug/l #	1
95) Naphthalene	13.75	128	20936	1.462	ug/l	99

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

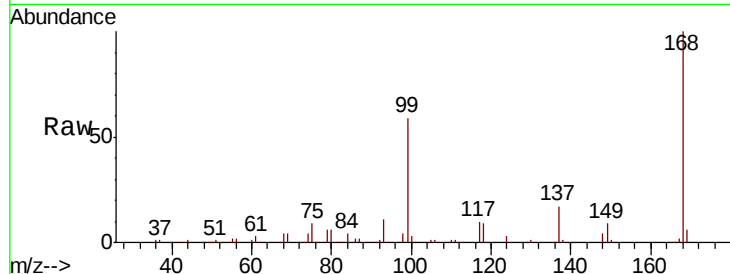
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 227684

Ion Ratio Lower Upper

168 100

99 59.3 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0

4.99

120000

100000

80000

60000

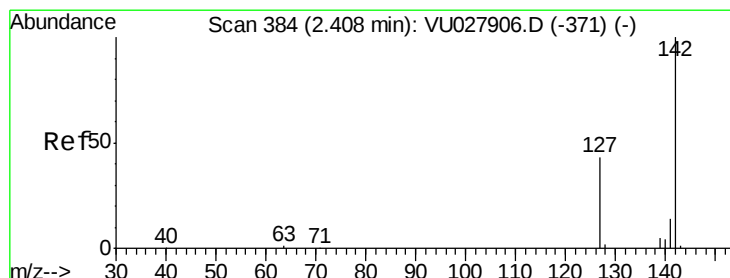
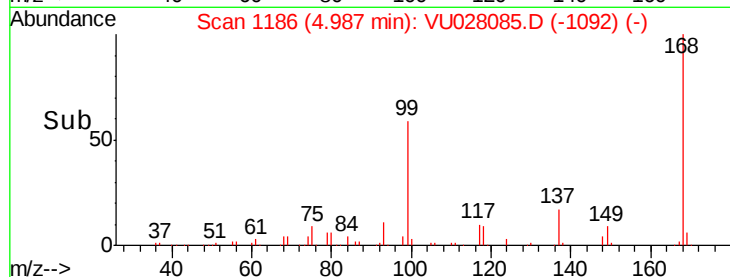
40000

20000

0

Time-->

4.90 5.00 5.10



#10

Methyl Iodide

Concen: 7.768 ug/l

RT: 2.42 min Scan# 387

Delta R.T. 0.01 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

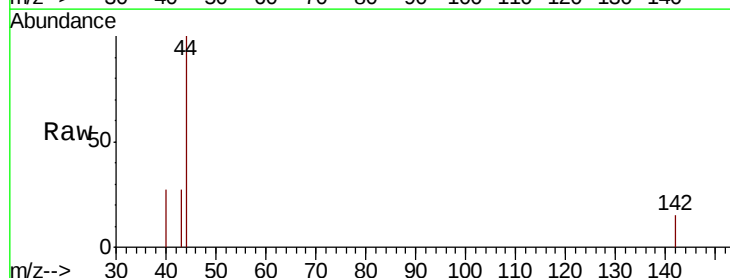
Tgt Ion:142 Resp: 21

Ion Ratio Lower Upper

142 100

127 0.0 35.2 52.8#

141 0.0 11.8 17.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.42

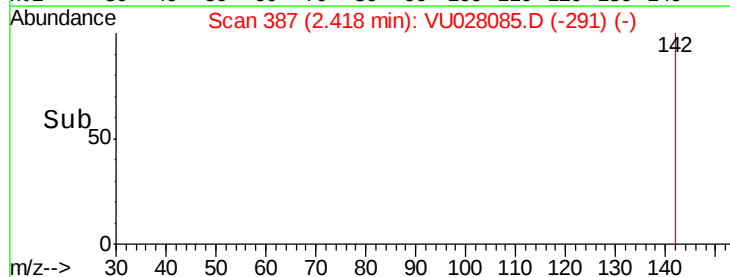
100

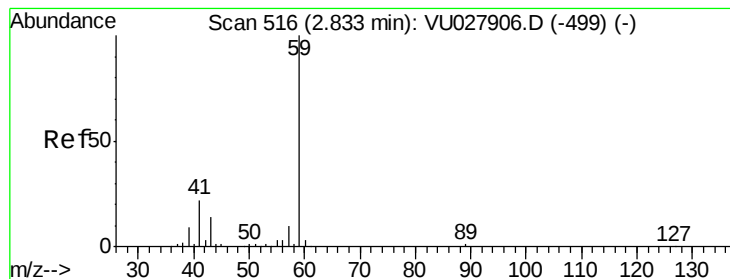
50

0

Time-->

2.40 2.41 2.42 2.42 2.42



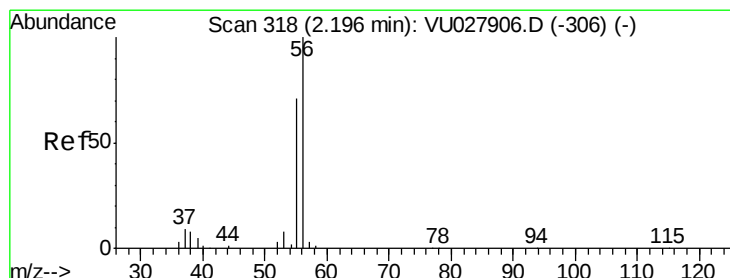
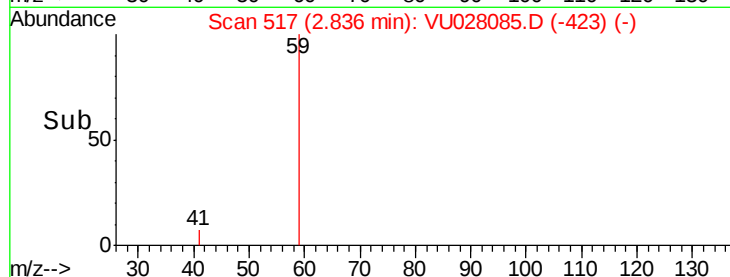
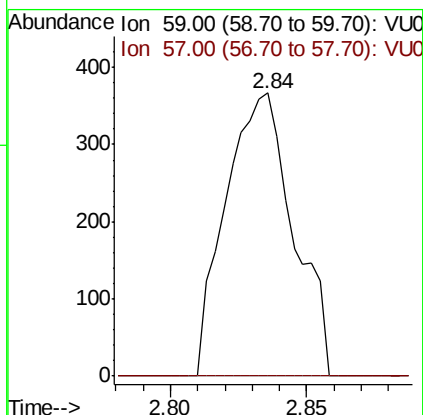
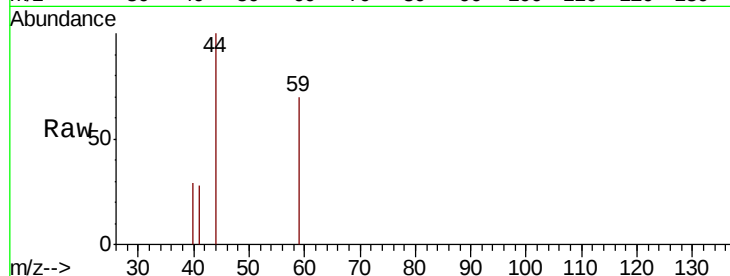


#11

Tert butyl alcohol
 Concen: 0.703 ug/l
 RT: 2.84 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Instrument :
 MSVOA_U
 ClientSampleId :

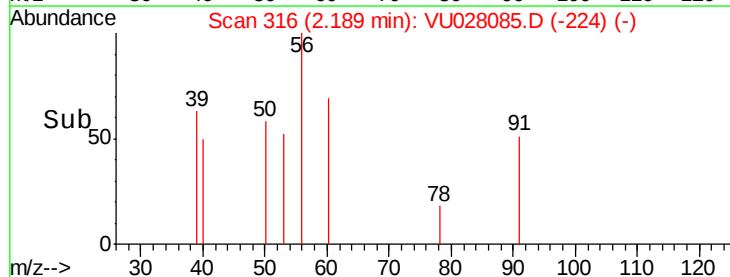
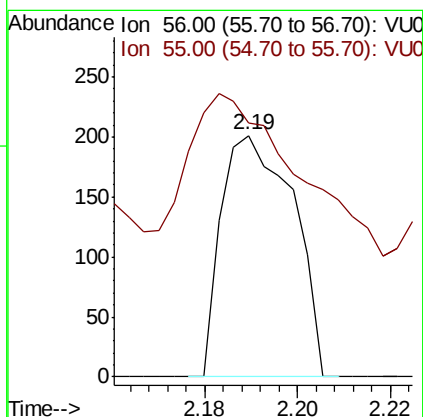
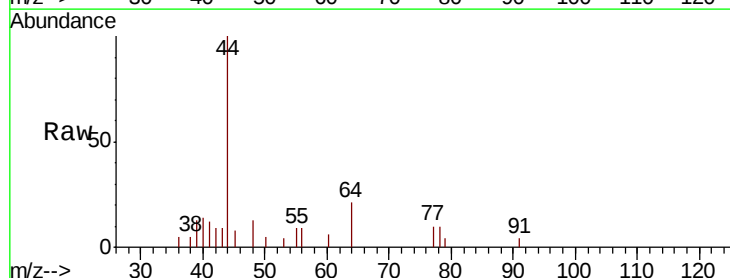
Tot Ion: 59 Resp: 630
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

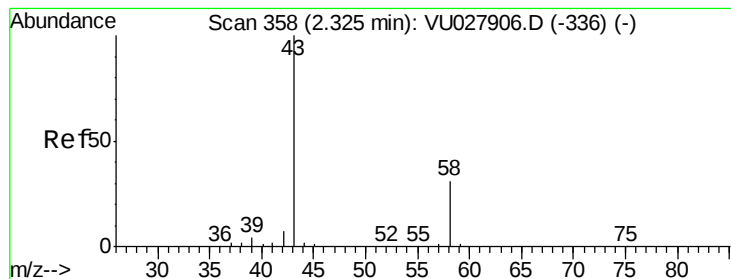


#13

Acrolein
 Concen: Below Cal
 RT: 2.19 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Tgt Ion: 56 Resp: 217
 Ion Ratio Lower Upper
 56 100
 55 194.5 56.2 84.4#





#16

Acetone

Concen: 21.532 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

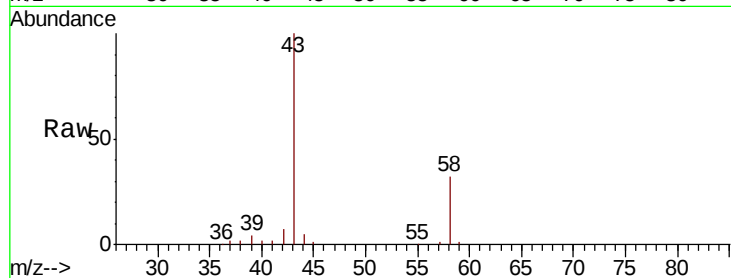
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 45223

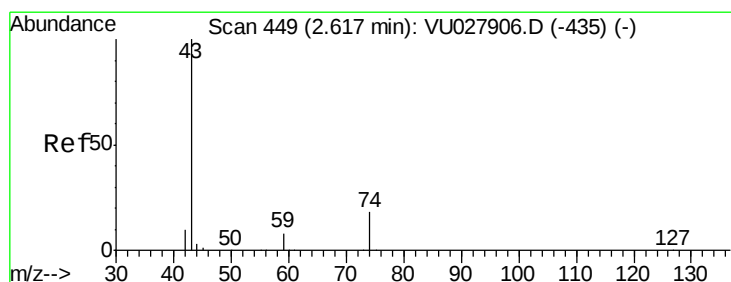
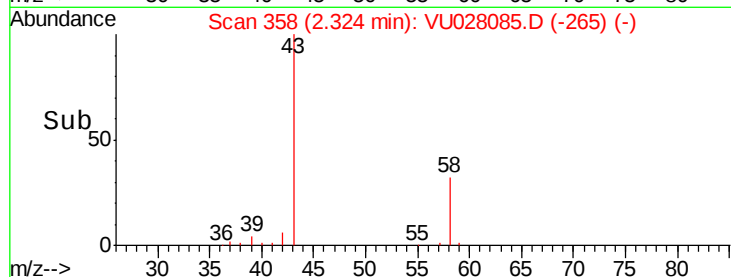
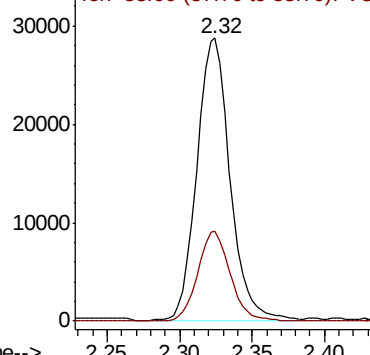
Ion Ratio Lower Upper

43 100

58 31.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 0.429 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028085.D

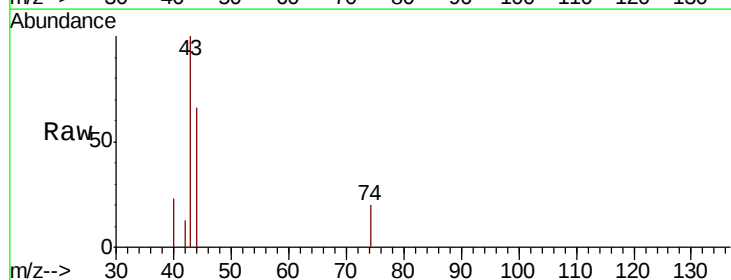
Acq: 13 Nov 2018 12:29

Tgt Ion: 43 Resp: 2480

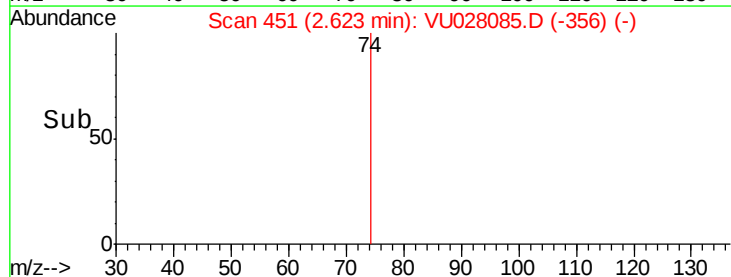
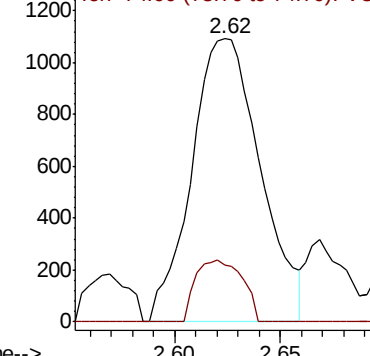
Ion Ratio Lower Upper

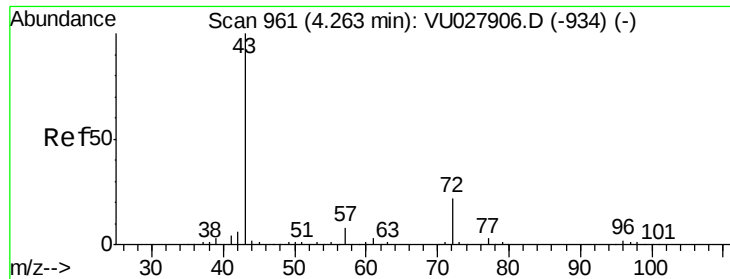
43 100

74 14.8 14.9 22.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 74.00 (73.70 to 74.70): VU0





#25

2-Butanone

Concen: 2.892 ug/l

RT: 4.28 min Scan# 965

Delta R.T. 0.01 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

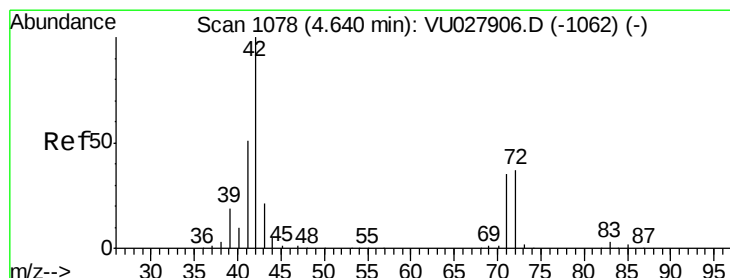
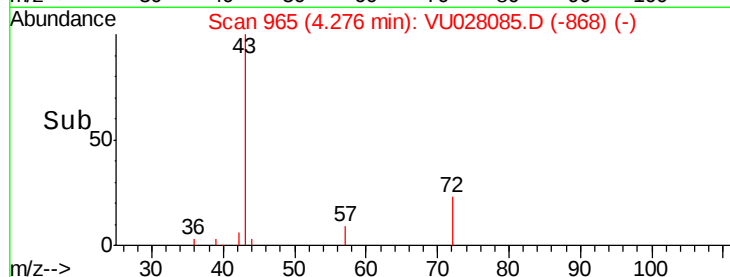
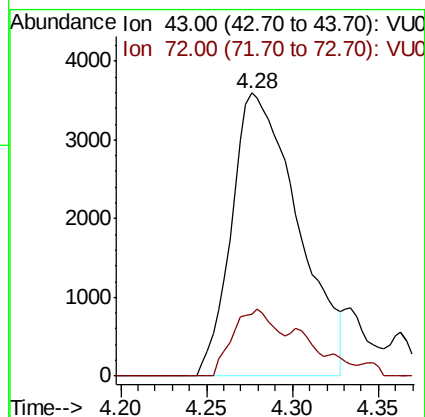
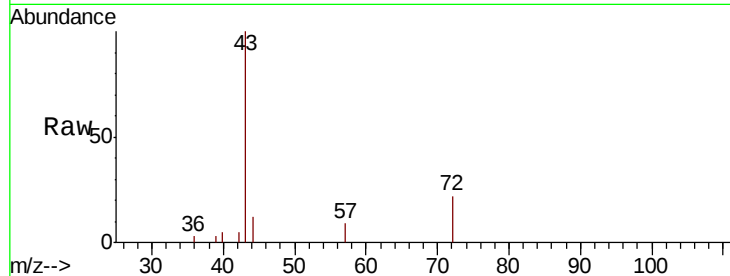
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 9663

Ion Ratio Lower Upper

43 100

72 21.9 17.7 26.5



#29

Tetrahydrofuran

Concen: 0.427 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

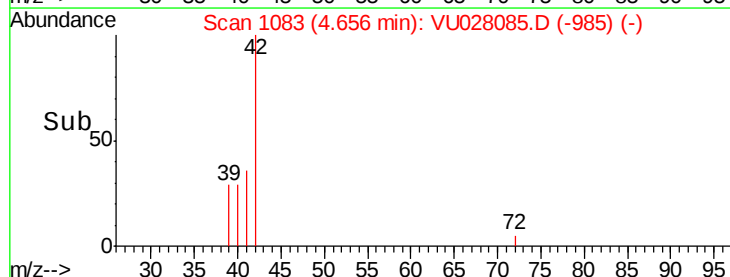
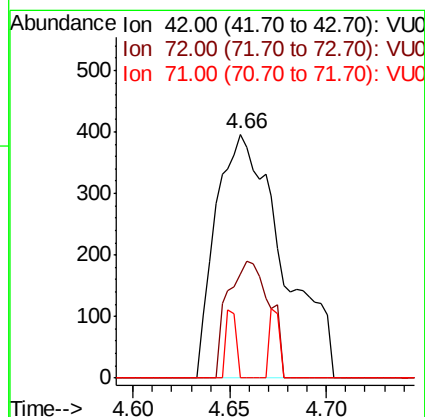
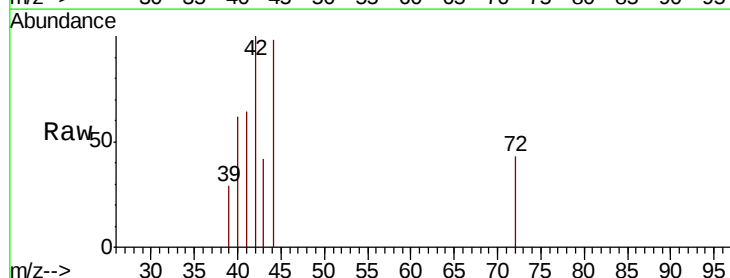
Tgt Ion: 42 Resp: 953

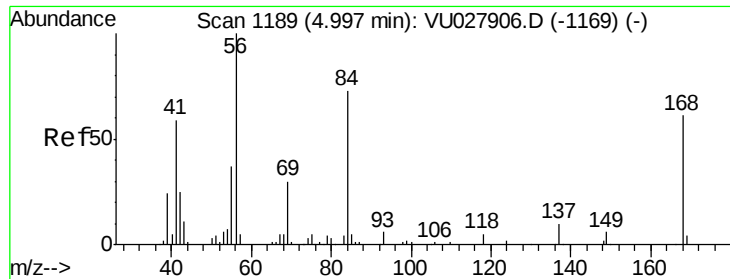
Ion Ratio Lower Upper

42 100

72 30.0 29.4 44.0

71 4.3 27.9 41.9#

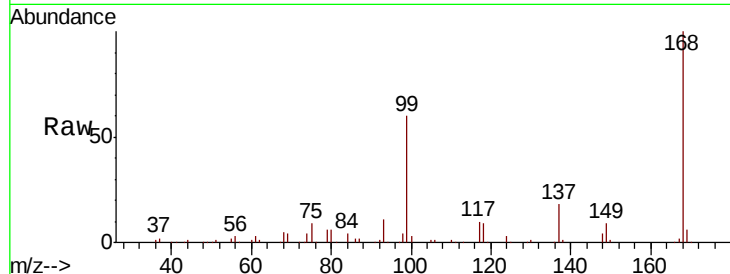




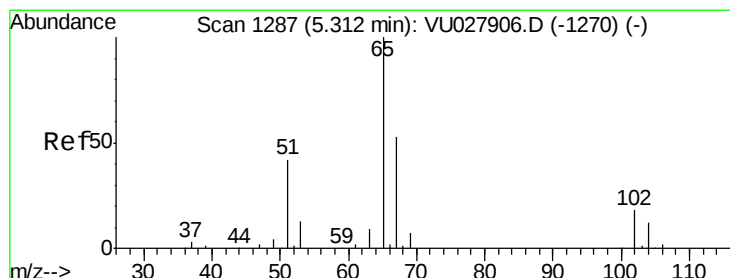
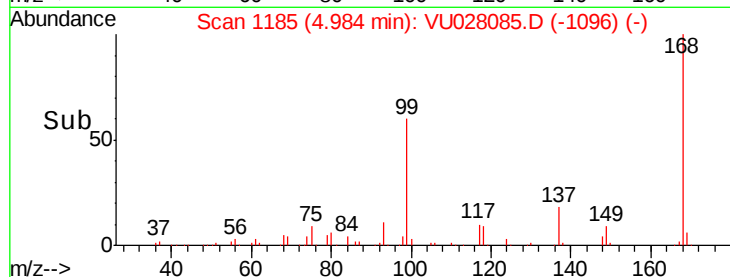
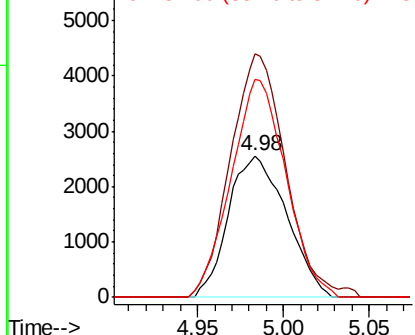
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 6010
Ion Ratio Lower Upper
56 100
69 172.0 23.7 35.5#
84 154.2 58.2 87.4#

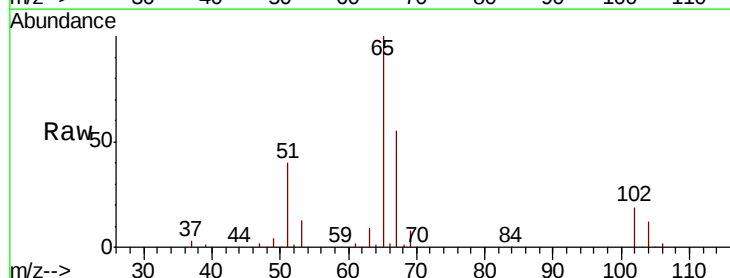


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

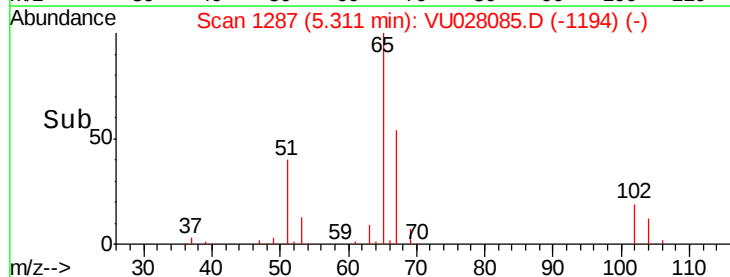
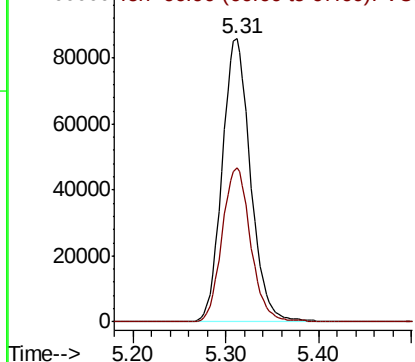


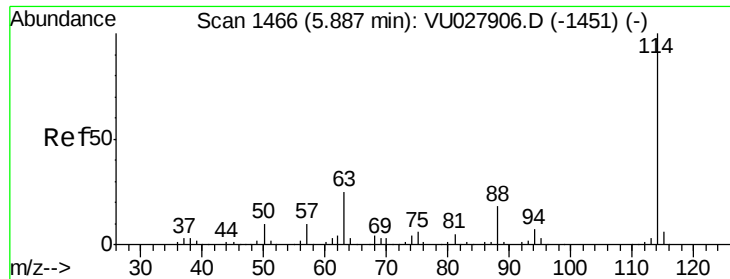
#33
1,2-Dichloroethane-d4
Concen: 53.814 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Tgt Ion: 65 Resp: 182166
Ion Ratio Lower Upper
65 100
67 55.1 0.0 109.0



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

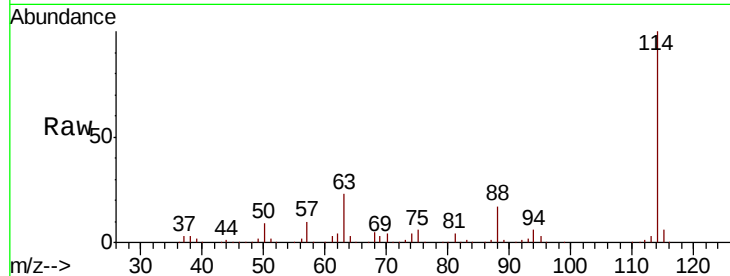




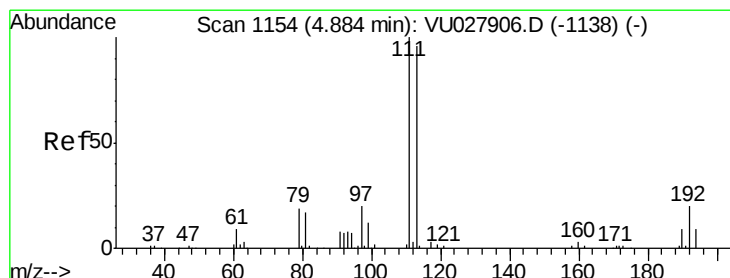
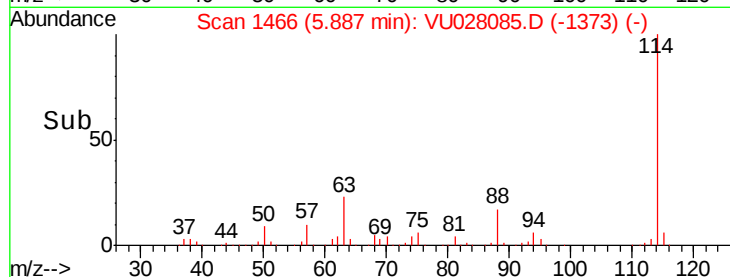
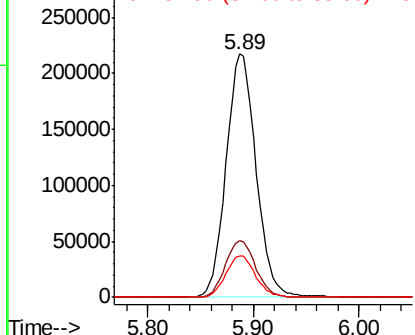
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	50.8
88	17.2	0.0	35.8

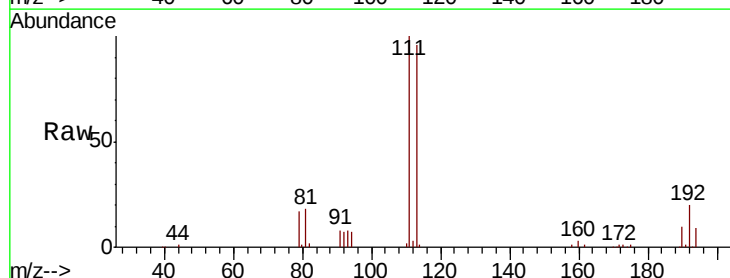


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

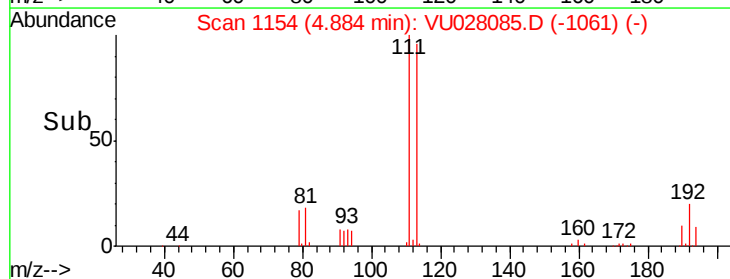
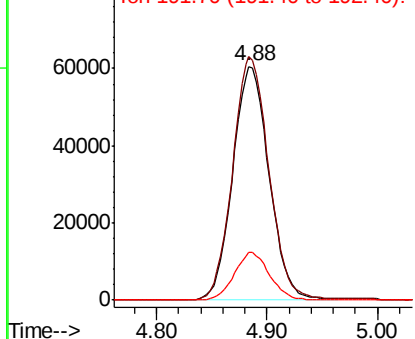


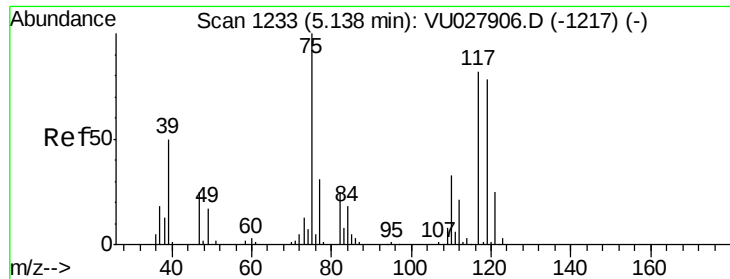
#35
 Dibromofluoromethane
 Concen: 51.323 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	83.0	124.6
192	19.8	15.6	23.4



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

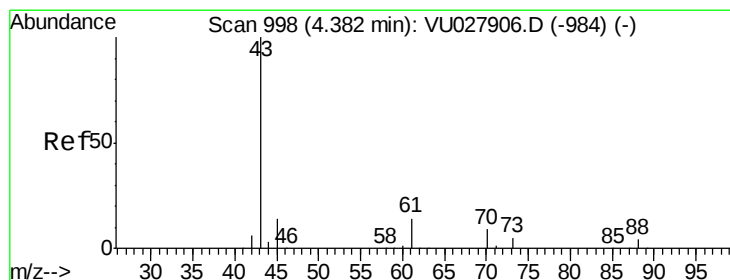
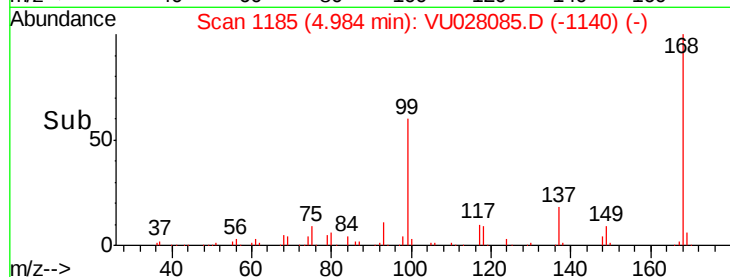
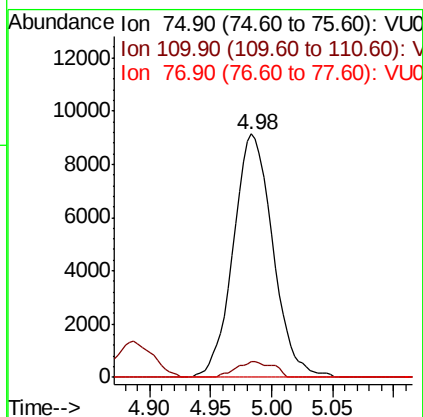
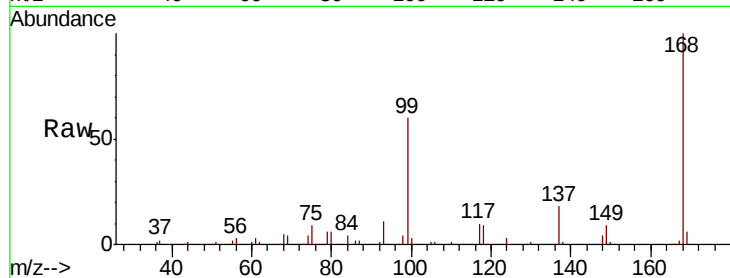




#36
 1,1-Dichloropropene
 Concen: 4.595 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

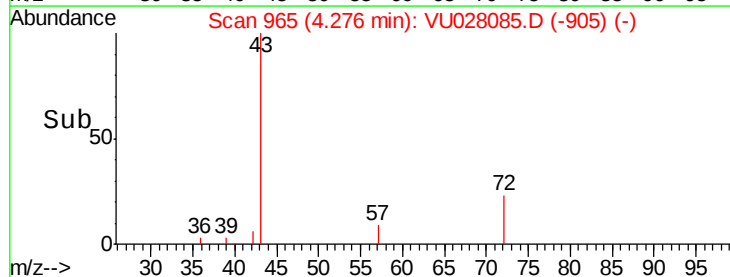
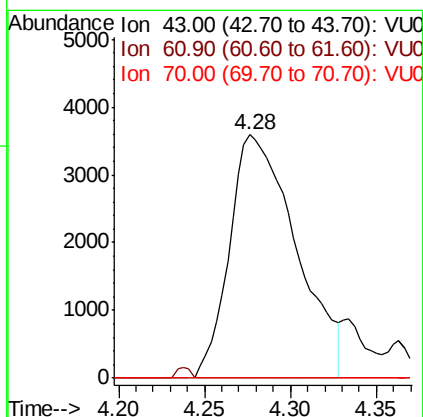
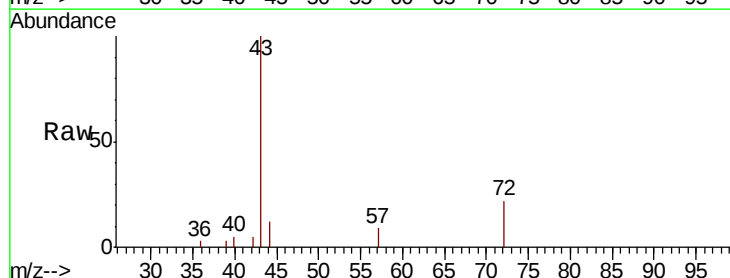
Instrument :
 MSVOA_U
 ClientSampleId :

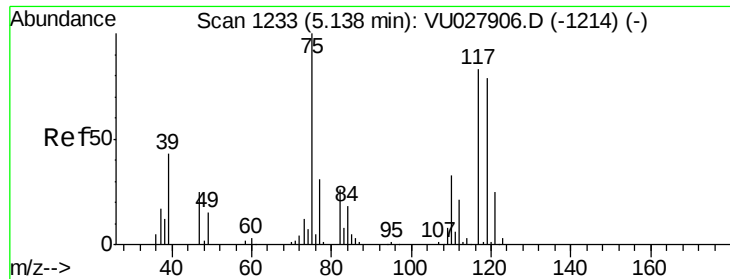
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.1	16.5	49.5#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 1.477 ug/l
 RT: 4.28 min Scan# 965
 Delta R.T. -0.11 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	0.0	7.0	10.6#

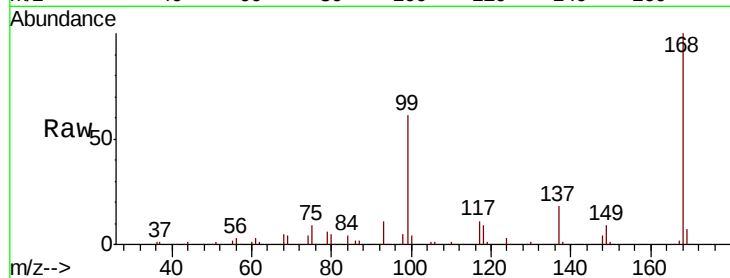




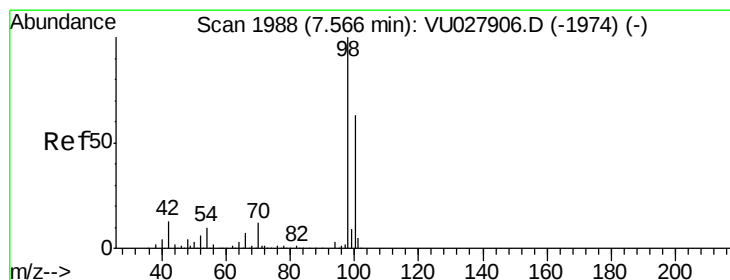
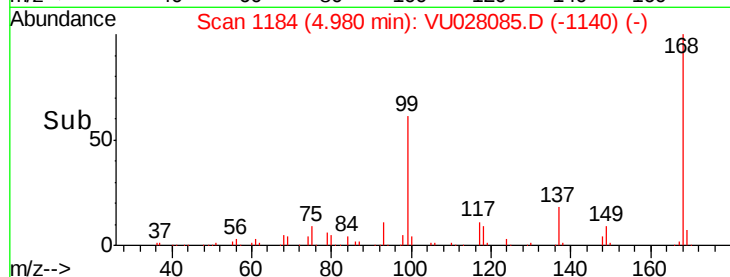
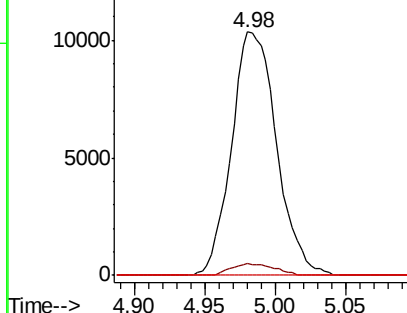
#38
 Carbon Tetrachloride
 Concen: 5.849 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.16 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:117 Resp: 23145
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.0 114.0#
 121 0.0 24.5 36.7#

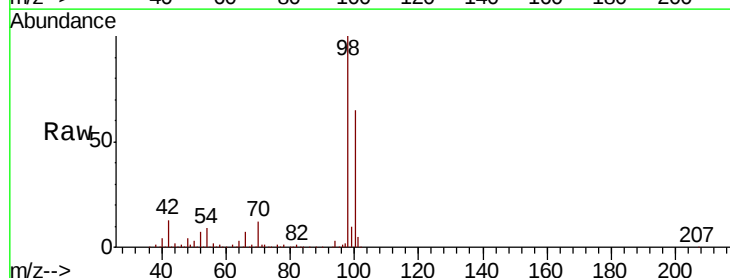


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

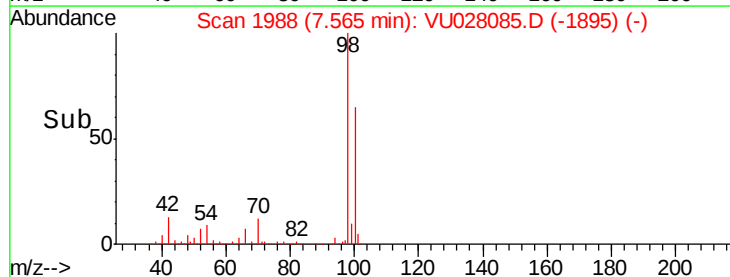
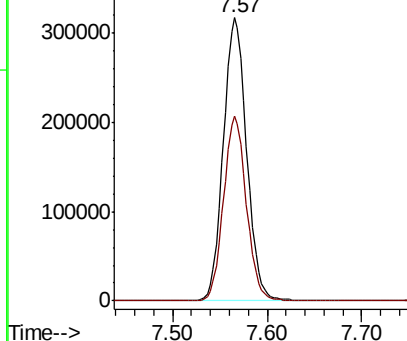


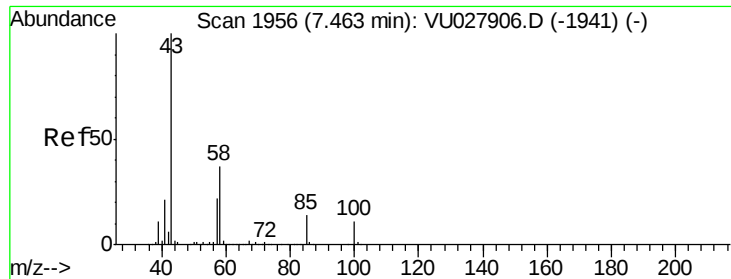
#50
 Toluene-d8
 Concen: 52.371 ug/l
 RT: 7.57 min Scan# 1988
 Delta R.T. -0.00 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Tgt Ion: 98 Resp: 543792
 Ion Ratio Lower Upper
 98 100
 100 63.8 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU0
 Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.248 ug/l

RT: 7.47 min Scan# 1959

Delta R.T. 0.01 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

Instrument :

MSVOA_U

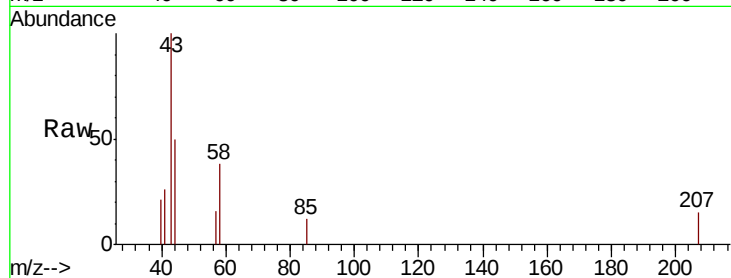
ClientSampleId :

Tot Ion: 43 Resp: 1699

Ion Ratio Lower Upper

43 100

58 23.6 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)

Ion 58.00 (57.70 to 58.70): VU027906.D (-1941) (-)

7.47

800

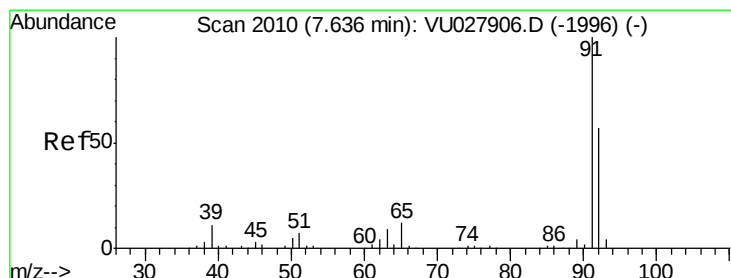
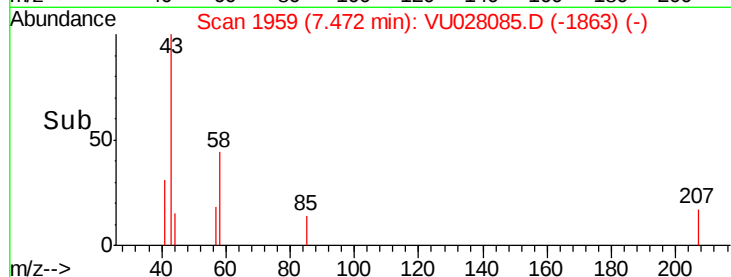
600

400

200

0

Time-->



#52

Toluene

Concen: 0.533 ug/l

RT: 7.65 min Scan# 2013

Delta R.T. 0.01 min

Lab File: VU028085.D

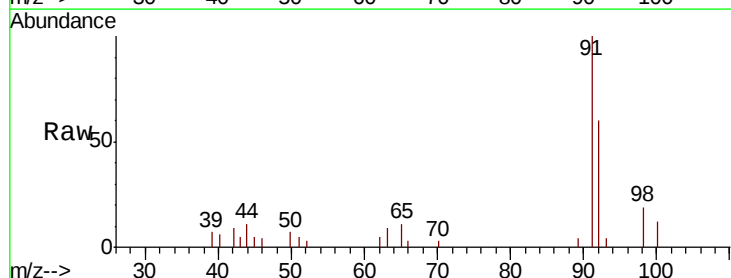
Acq: 13 Nov 2018 12:29

Tgt Ion: 92 Resp: 4274

Ion Ratio Lower Upper

92 100

91 170.7 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VU027906.D (-1996) (-)

Ion 91.00 (90.70 to 91.70): VU027906.D (-1996) (-)

7.65

4000

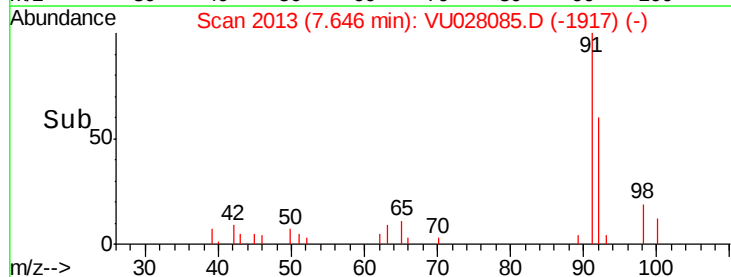
3000

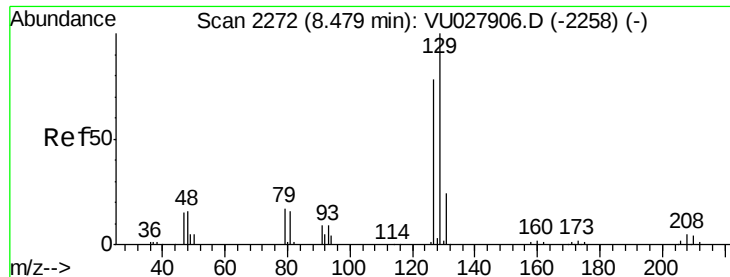
2000

1000

0

Time-->

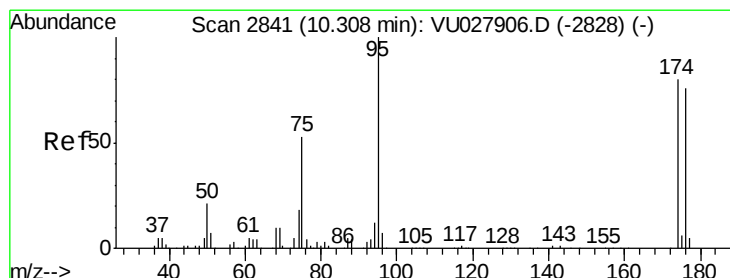
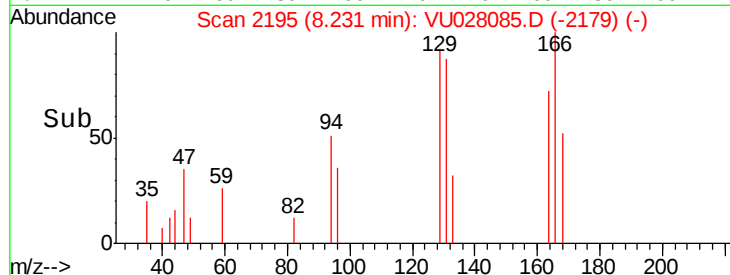
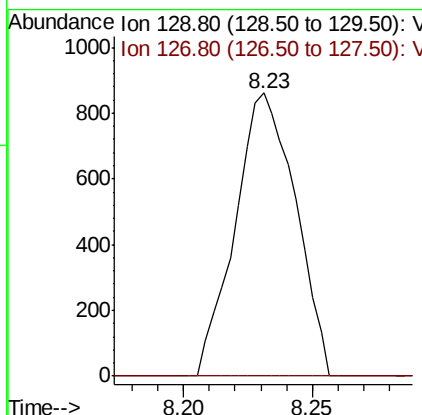
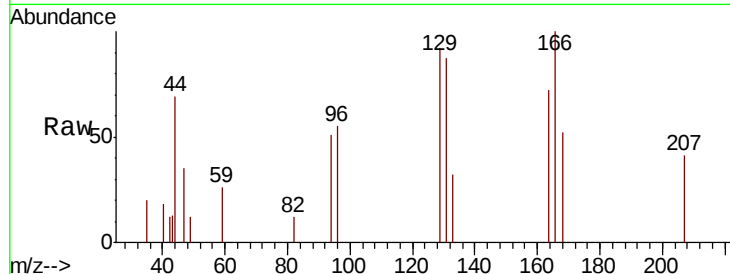




#60
 Dibromochloromethane
 Concen: 0.455 ug/l
 RT: 8.23 min Scan# 2195
 Delta R.T. -0.25 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

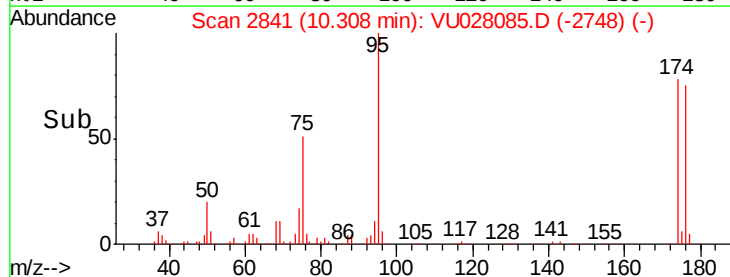
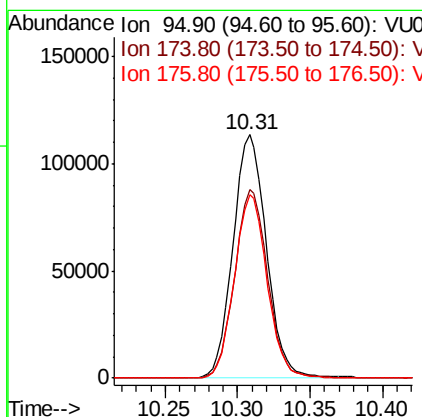
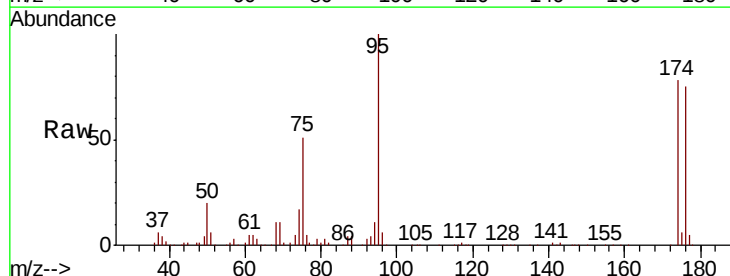
Instrument :
 MSVOA_U
 ClientSampled :

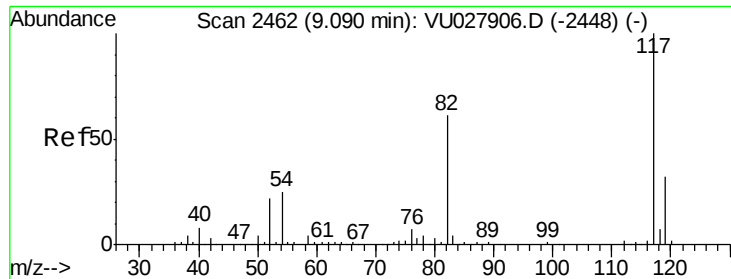
Tot Ion:129 Resp: 1407
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.2 117.6#



#62
 4-Bromofluorobenzene
 Concen: 47.452 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.00 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Tgt Ion: 95 Resp: 181737
 Ion Ratio Lower Upper
 95 100
 174 76.8 0.0 156.4
 176 74.0 0.0 150.8

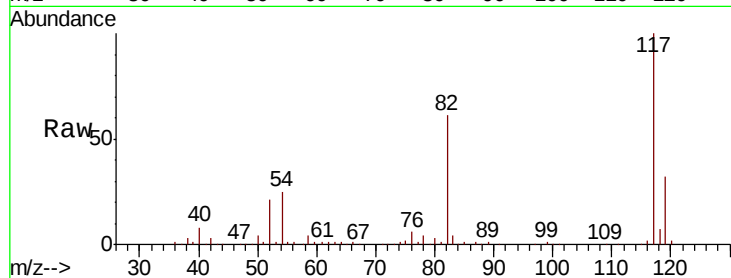




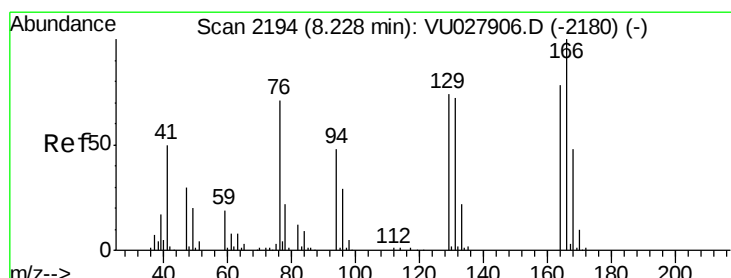
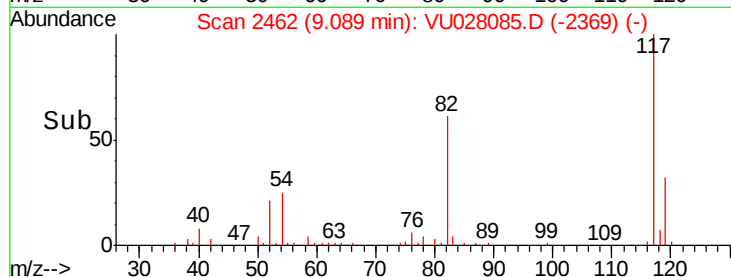
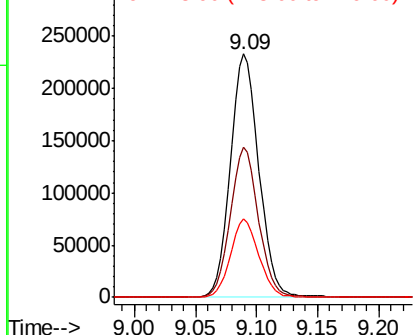
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 380159
Ion Ratio Lower Upper
117 100
82 61.5 48.6 73.0
119 32.2 25.8 38.8

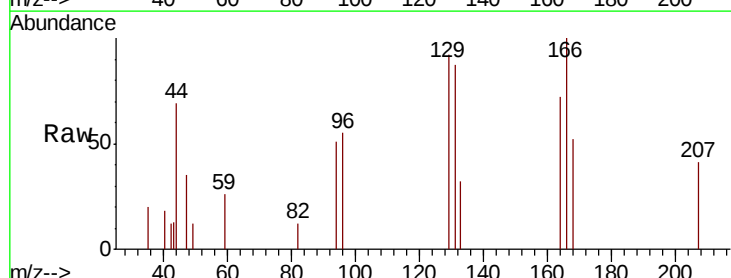


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

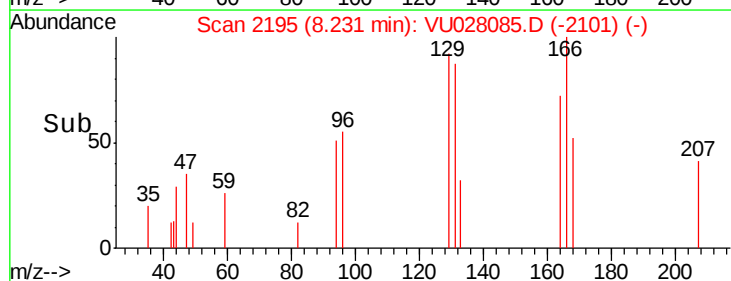
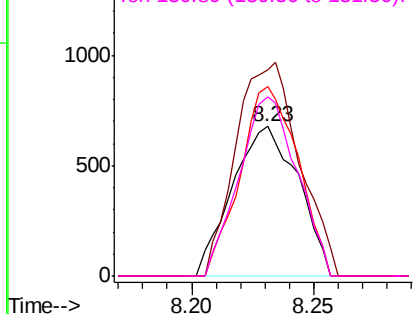


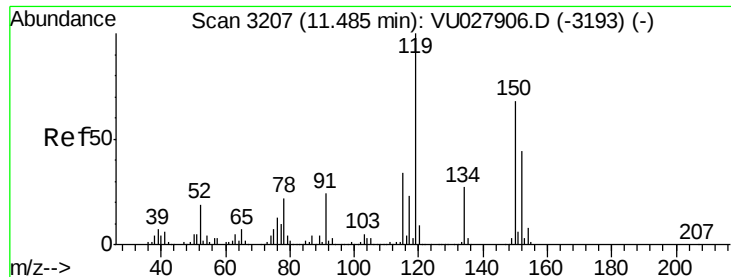
#64
Tetrachloroethene
Concen: 0.514 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Tgt Ion:164 Resp: 1268
Ion Ratio Lower Upper
164 100
166 138.0 102.1 153.1
129 127.2 75.9 113.9#
131 120.4 73.0 109.6#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



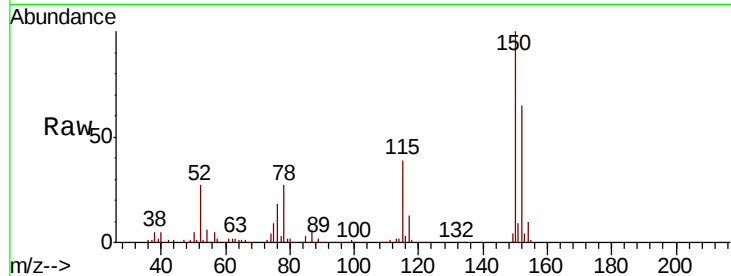


#72

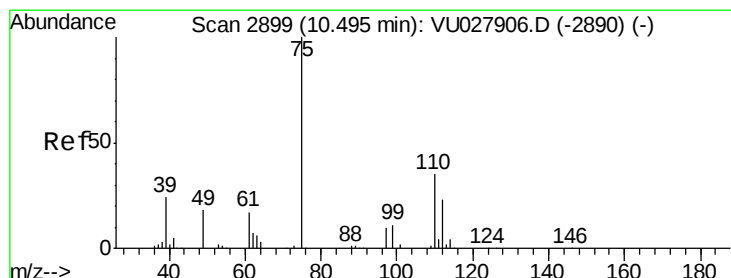
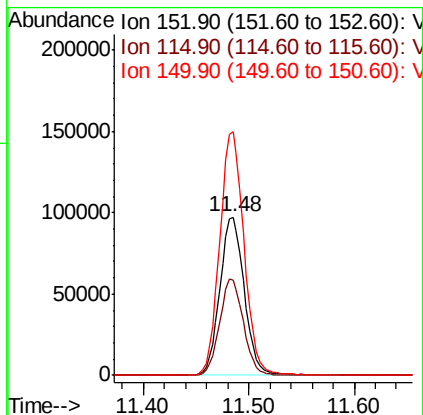
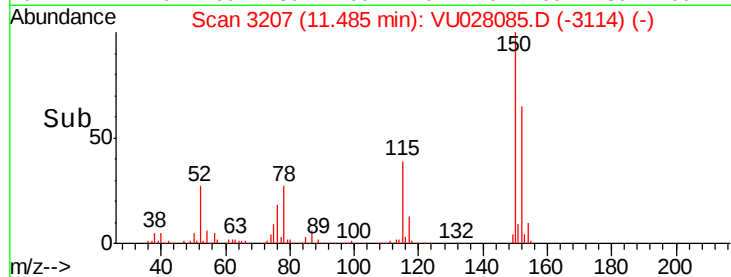
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.3	43.0	129.0
150	153.2	0.0	349.4



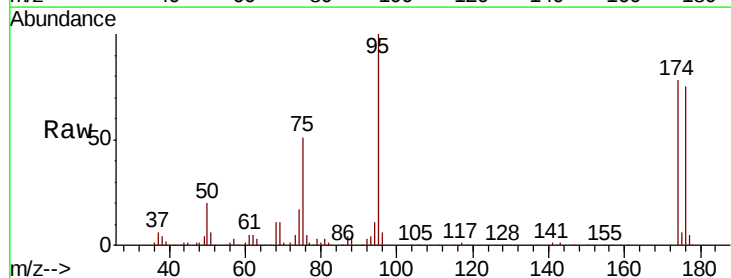
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



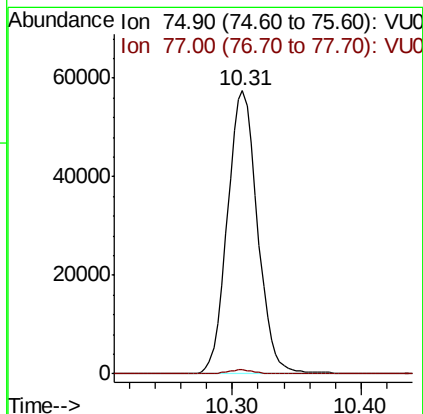
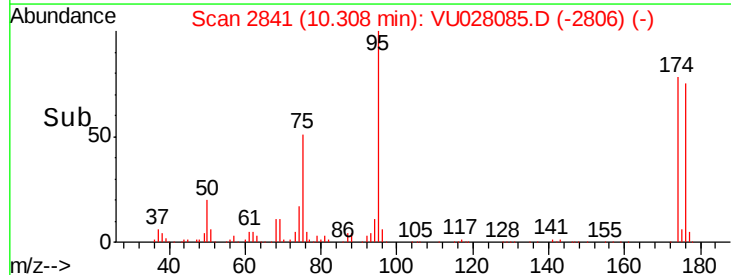
#76

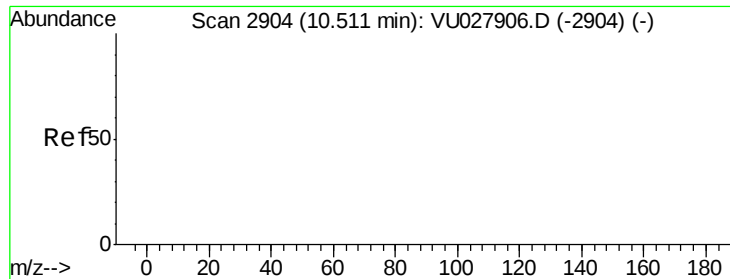
1,2,3-Trichloropropane
Concen: 21.848 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	21.6	64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

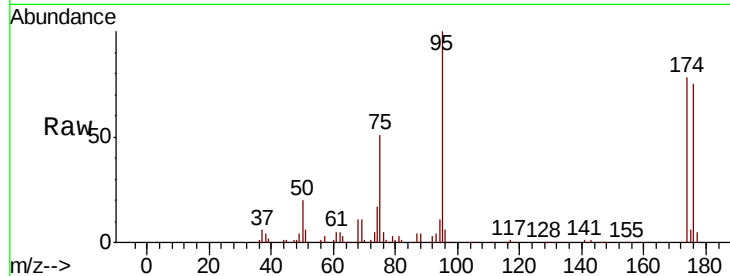




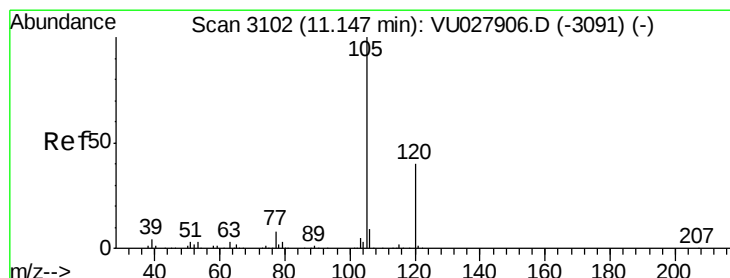
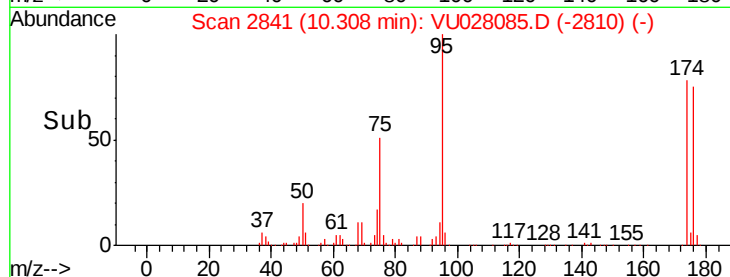
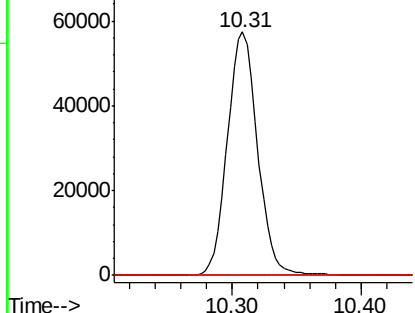
#81
trans-1,4-Dichloro-2-butene
Concen: 54.527 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 93099
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

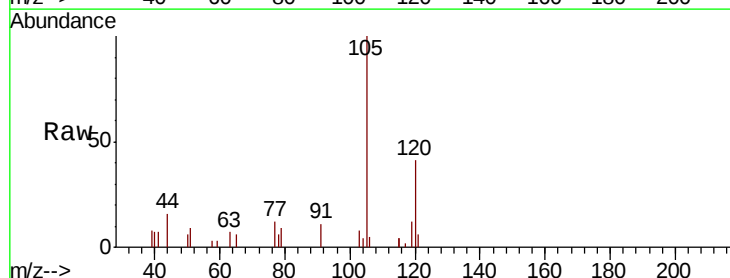


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

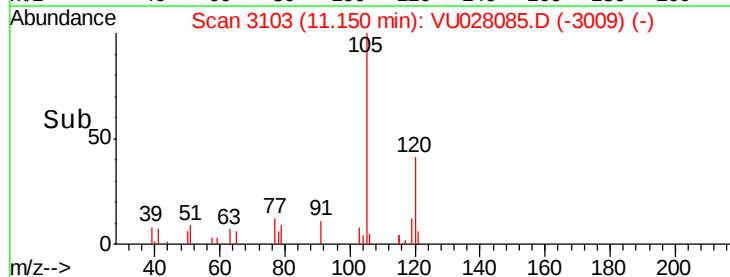
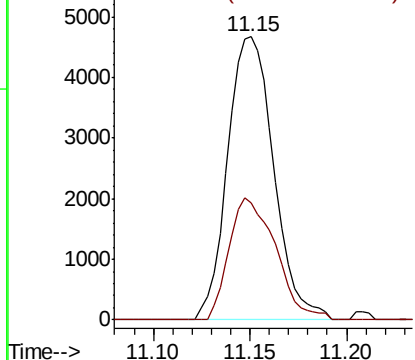


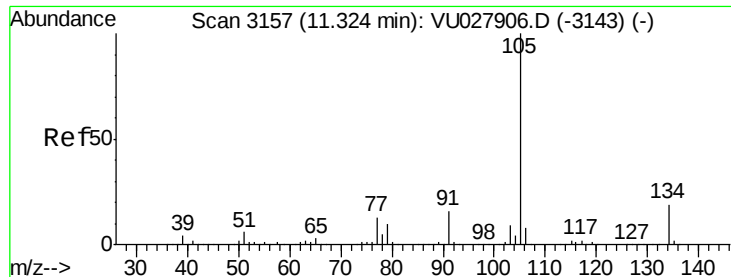
#84
1,2,4-Trimethylbenzene
Concen: 0.770 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. 0.00 min
Lab File: VU028085.D
Acq: 13 Nov 2018 12:29

Tgt Ion: 105 Resp: 7750
Ion Ratio Lower Upper
105 100
120 43.5 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.638 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. -0.17 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

Instrument :

MSVOA_U

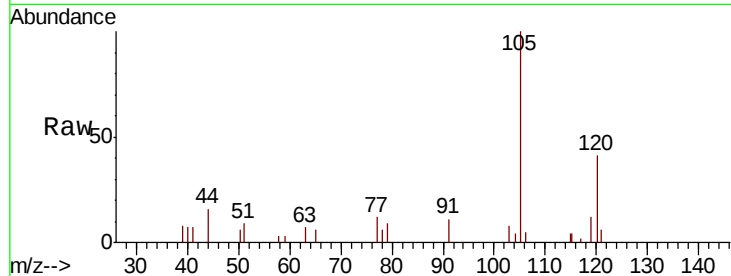
ClientSampled :

Tot Ion:105 Resp: 7750

Ion Ratio Lower Upper

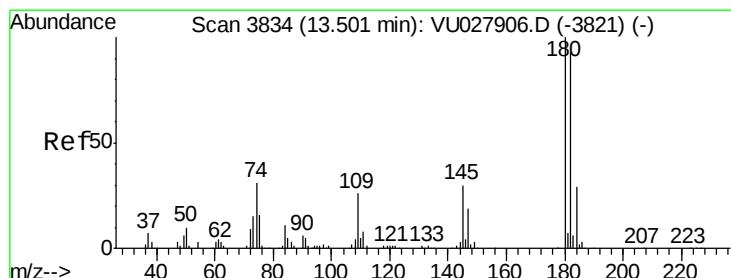
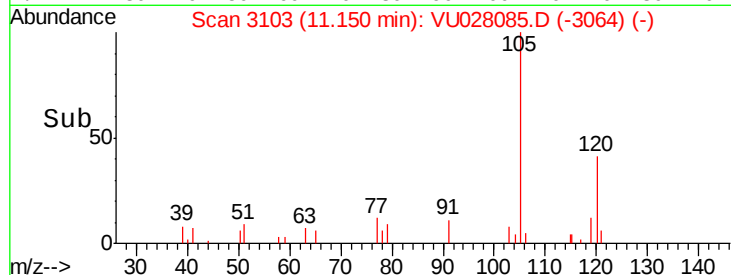
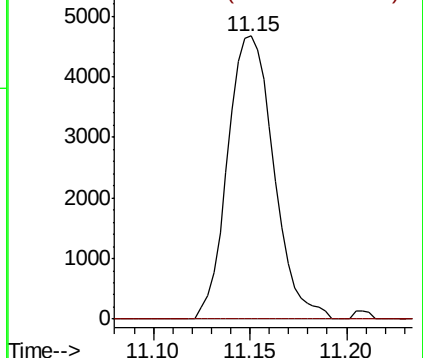
105 100

134 0.0 9.2 27.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#93

1,2,4-Trichlorobenzene

Concen: 0.696 ug/l

RT: 13.51 min Scan# 3837

Delta R.T. 0.01 min

Lab File: VU028085.D

Acq: 13 Nov 2018 12:29

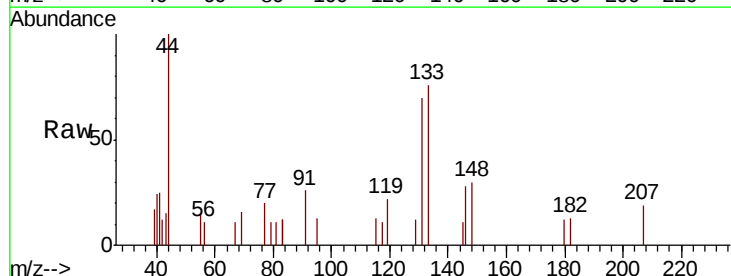
Tgt Ion:180 Resp: 41

Ion Ratio Lower Upper

180 100

182 234.1 48.4 145.2#

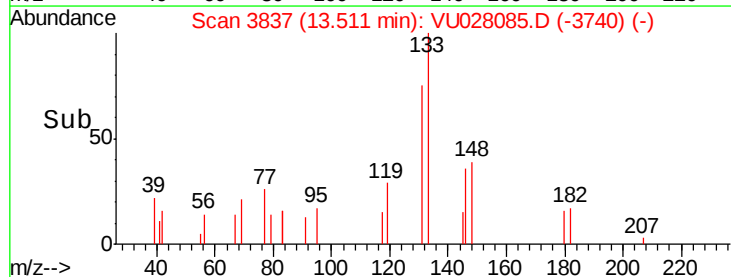
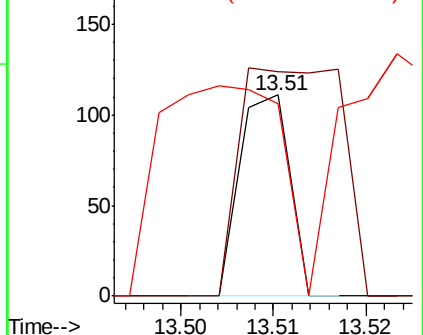
145 258.5 14.9 44.5#

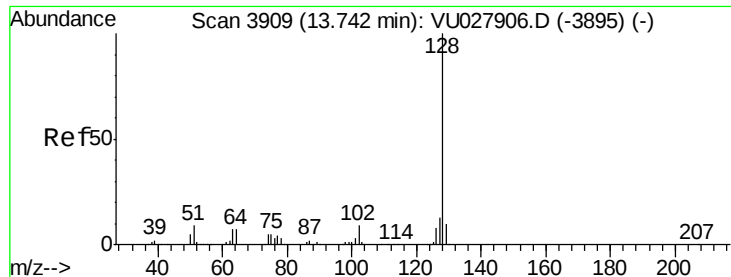


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

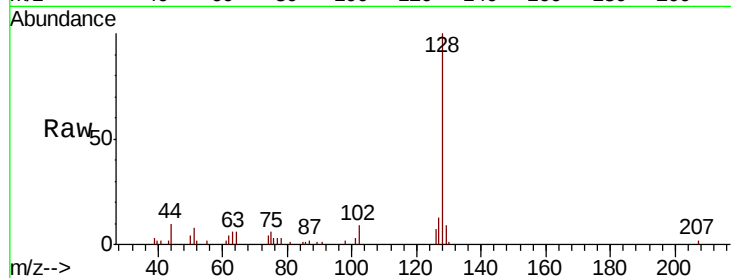




#95
 Naphthalene
 Concen: 1.462 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.00 min
 Lab File: VU028085.D
 Acq: 13 Nov 2018 12:29

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	9.8	8.3	12.5



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

