

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111318\
 Data File : VU028101.D
 Acq On : 13 Nov 2018 18:55
 Operator : MD/SY
 Sample : J5909-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:01:28 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

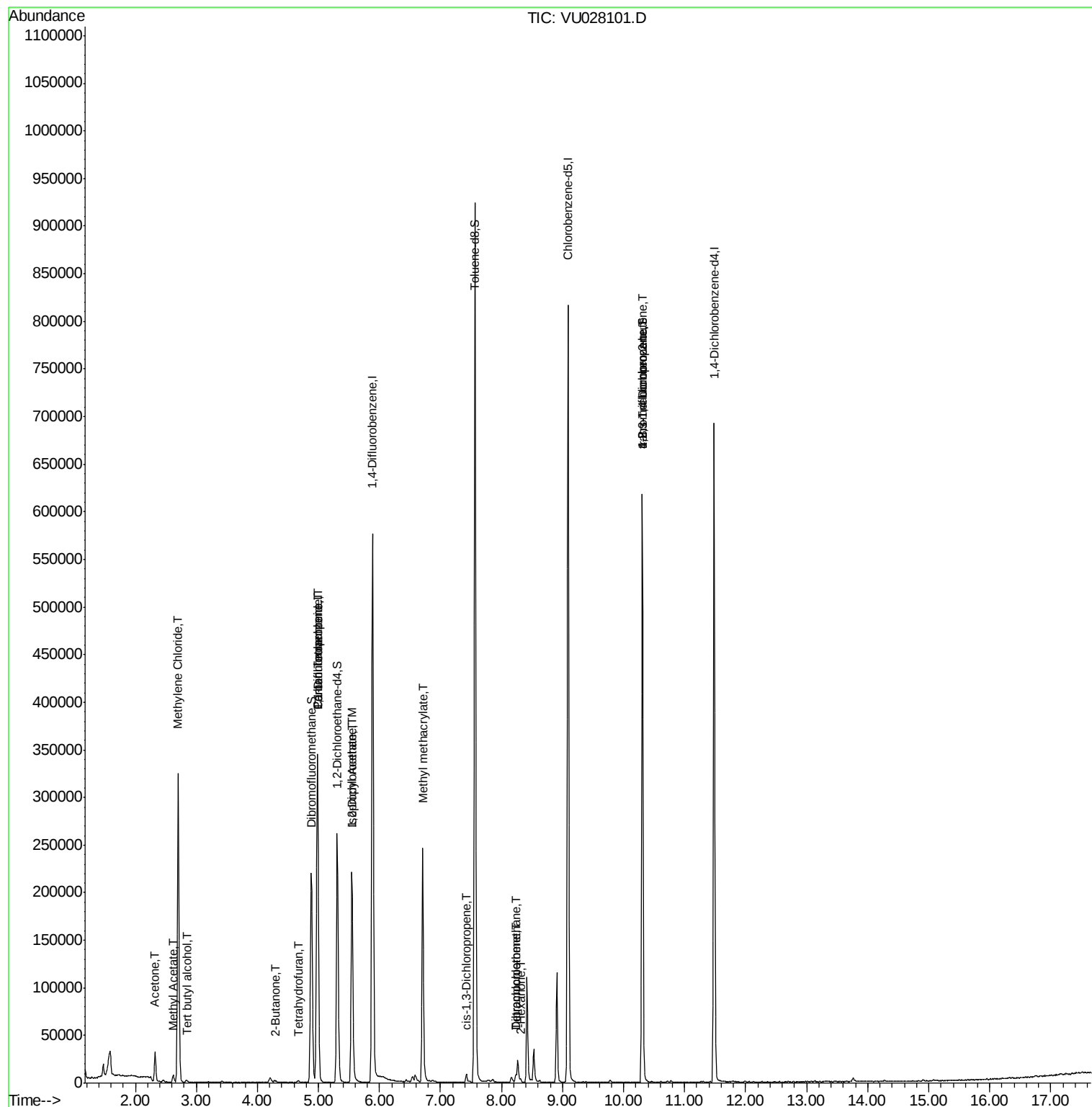
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	258509	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	479072	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	425783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	176553	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	201000	52.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.60%	
35) Dibromofluoromethane	4.88	113	151244	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
50) Toluene-d8	7.57	98	610262	52.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.60%	
62) 4-Bromofluorobenzene	10.31	95	202301	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.84	59	1782	1.751 ug/l #		73
13) Acrolein	2.20	56	569	Below Cal #		59
16) Acetone	2.32	43	32083	13.454 ug/l		94
18) Methyl Acetate	2.62	43	10812	1.648 ug/l		96
20) Methylene Chloride	2.70	84	140702	40.413 ug/l		95
25) 2-Butanone	4.30	43	4710	1.242 ug/l		96
29) Tetrahydrofuran	4.66	42	882	0.348 ug/l #		84
31) Cyclohexane	4.98	56	5392	Below Cal #		1
36) 1,1-Dichloropropene	4.98	75	22191	4.423 ug/l #		49
38) Carbon Tetrachloride	4.98	117	25265	5.682 ug/l #		17
42) 1,2-Dichloroethane	5.55	62	1189	0.218 ug/l #		76
43) Isopropyl Acetate	5.55	43	254134	22.064 ug/l		98
48) Methyl methacrylate	6.71	41	21239	3.763 ug/l #		45
54) cis-1,3-Dichloropropene	7.42	75	1550	0.257 ug/l #		64
59) 2-Hexanone	8.32	43	2178	0.366 ug/l #		26
60) Dibromochloromethane	8.23	129	951	0.274 ug/l #		10
64) Tetrachloroethene	8.23	164	1013	0.367 ug/l #		82
76) 1,2,3-Trichloropropane	10.31	75	103372	21.405 ug/l #		35
81) trans-1,4-Dichloro-2-buten	10.31	75	103372	53.427 ug/l #		100

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028101.D

Acq: 13 Nov 2018 18:55

Instrument :

MSVOA_U

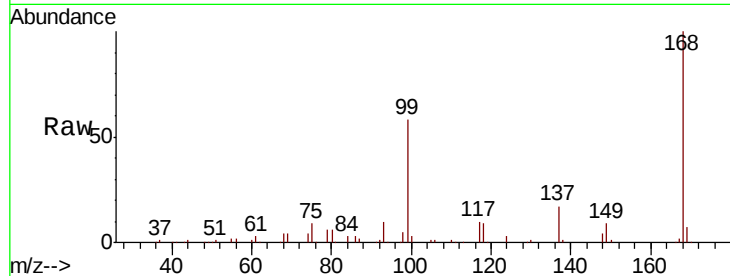
ClientSampleId :

Tot Ion:168 Resp: 258509

Ion Ratio Lower Upper

168 100

99 58.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

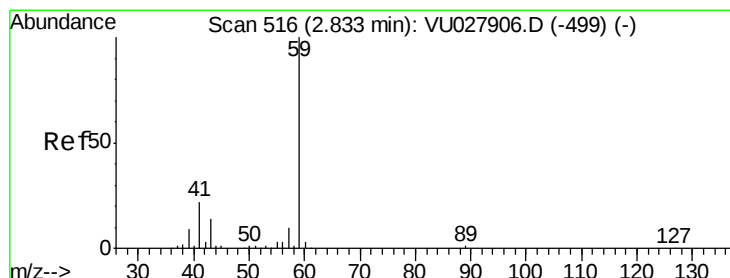
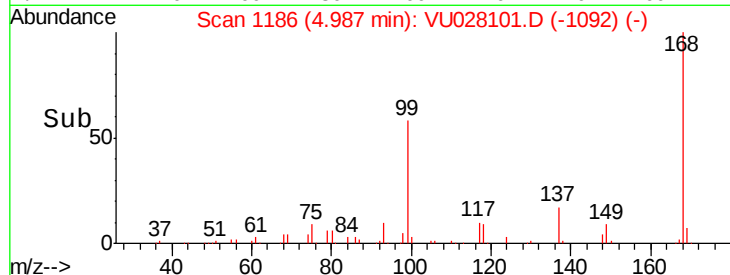
4.99

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.751 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028101.D

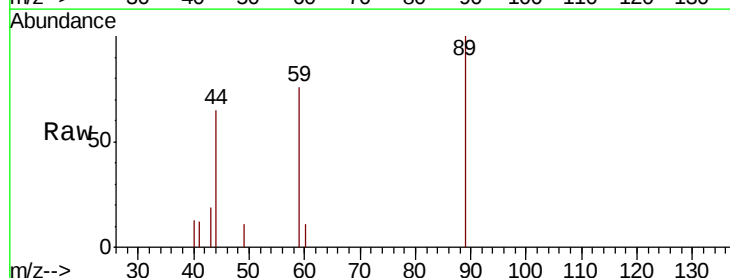
Acq: 13 Nov 2018 18:55

Tgt Ion: 59 Resp: 1782

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027906.D (-499) (-)

2.84

1000

800

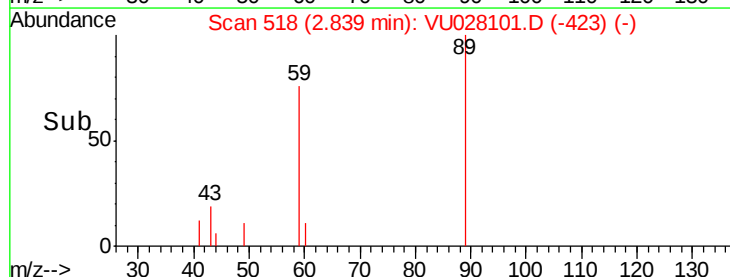
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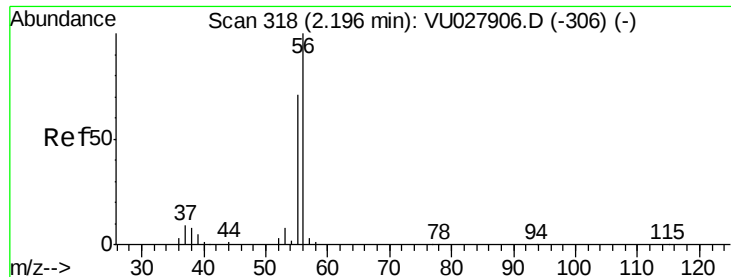
400

200

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028101.D

Acq: 13 Nov 2018 18:55

Instrument :

MSVOA_U

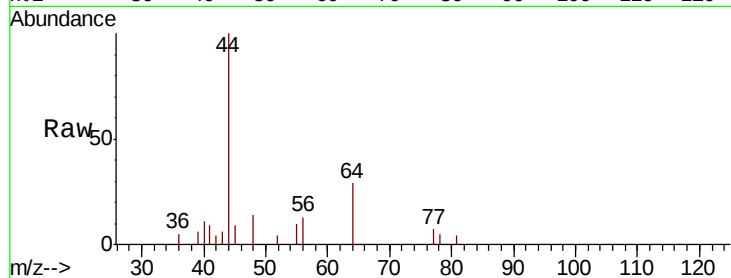
ClientSampled :

Tot Ion: 56 Resp: 569

Ion Ratio Lower Upper

56 100

55 103.7 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.20

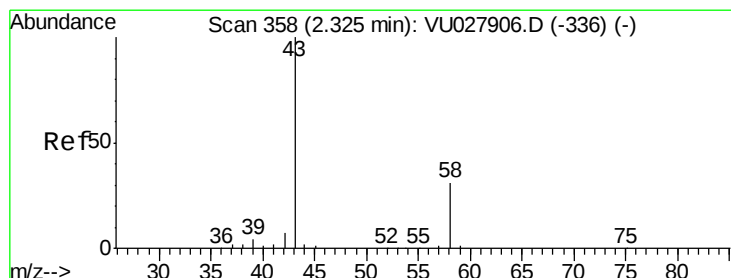
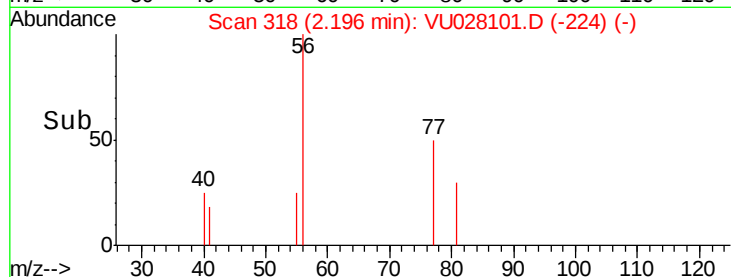
300

200

100

0

Time--> 2.15 2.20 2.25



#16

Acetone

Concen: 13.454 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028101.D

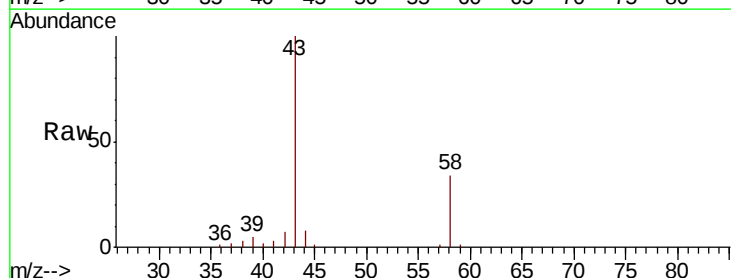
Acq: 13 Nov 2018 18:55

Tgt Ion: 43 Resp: 32083

Ion Ratio Lower Upper

43 100

58 34.2 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

20000

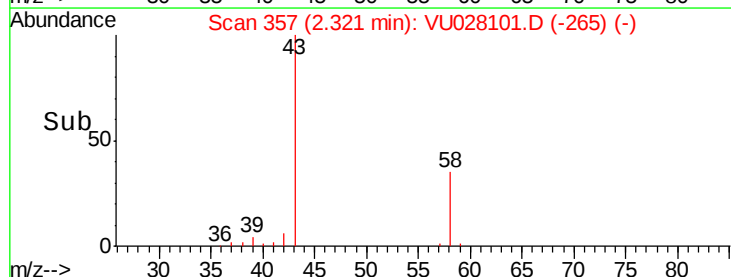
15000

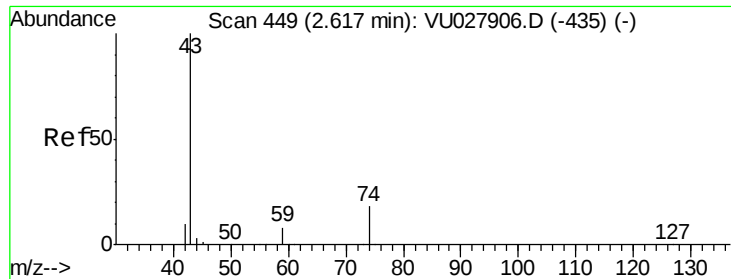
10000

5000

0

Time--> 2.25 2.30 2.35 2.40

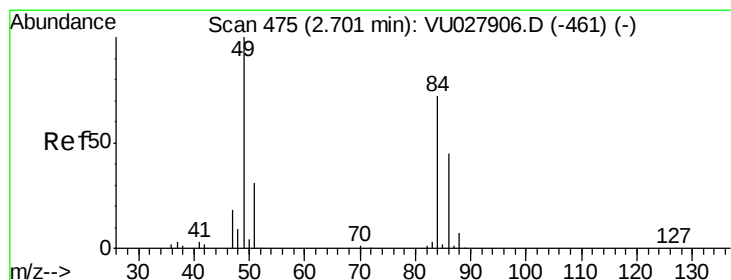
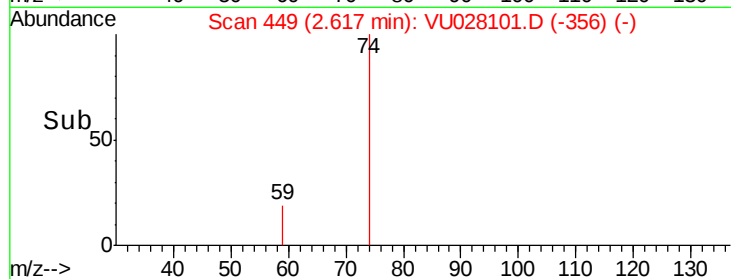
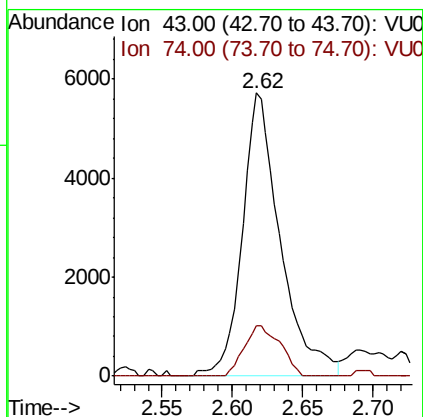
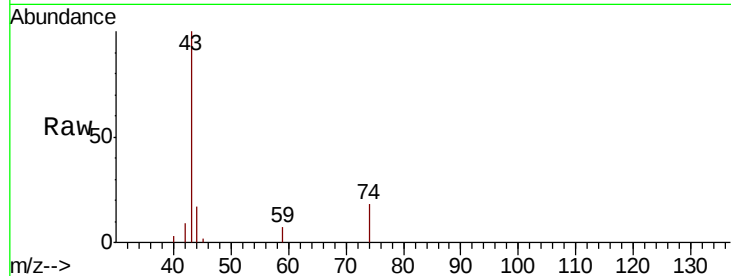




#18
Methvl Acetate
Concen: 1.648 ug/l
RT: 2.62 min Scan# 449
Delta R.T. 0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

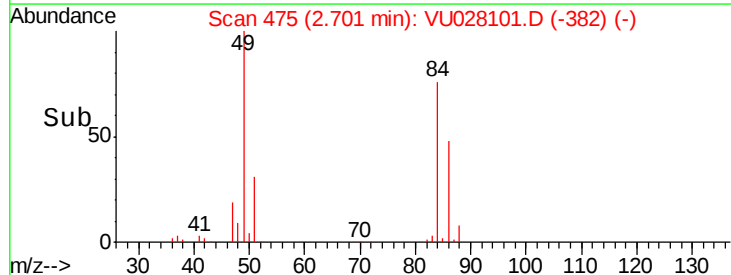
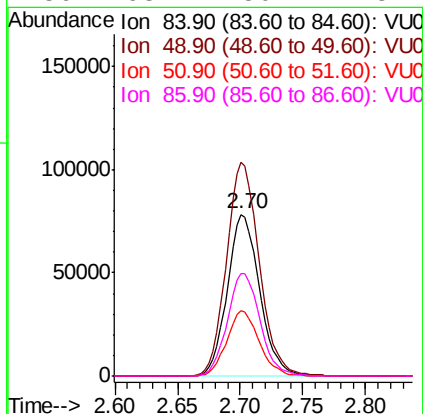
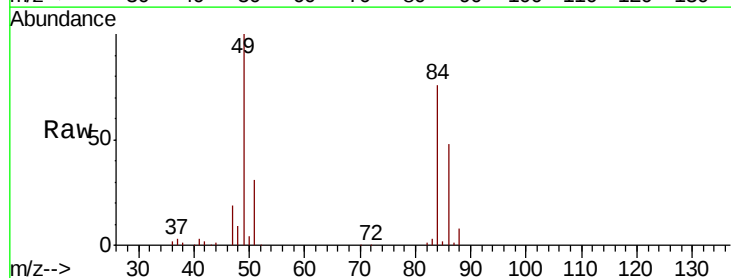
Instrument :
MSVOA_U
ClientSampleId :

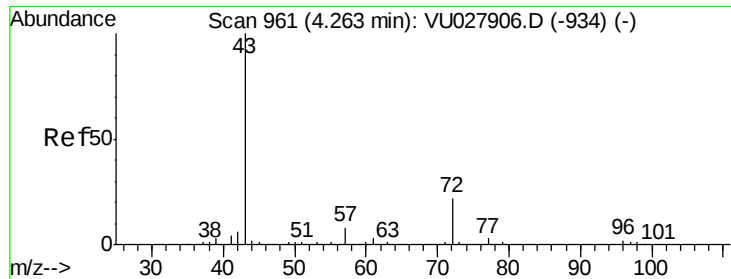
Tot Ion: 43 Resp: 10812
Ion Ratio Lower Upper
43 100
74 16.9 14.9 22.3



#20
Methylene Chloride
Concen: 40.413 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Tgt Ion: 84 Resp: 140702
Ion Ratio Lower Upper
84 100
49 131.9 111.6 167.4
51 40.7 34.8 52.2
86 63.4 50.1 75.1





#25

2-Butanone

Concen: 1.242 ug/l

RT: 4.30 min Scan# 971

Delta R.T. 0.03 min

Lab File: VU028101.D

Acq: 13 Nov 2018 18:55

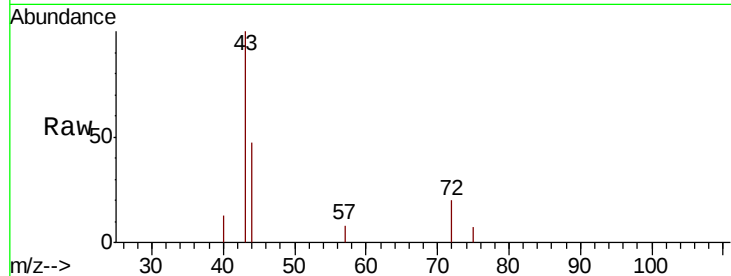
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 4710

Ion Ratio Lower Upper

43 100

72 20.0 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-934) (-)

Ion 72.00 (71.70 to 72.70): VU027906.D (-934) (-)

4.30

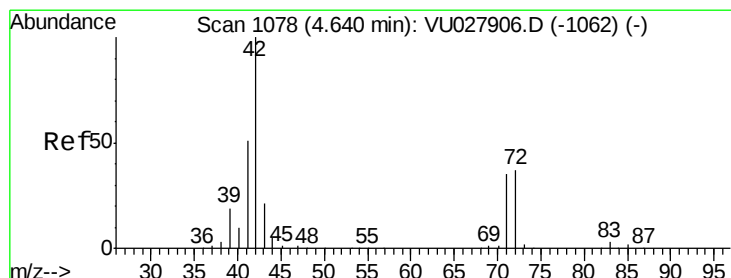
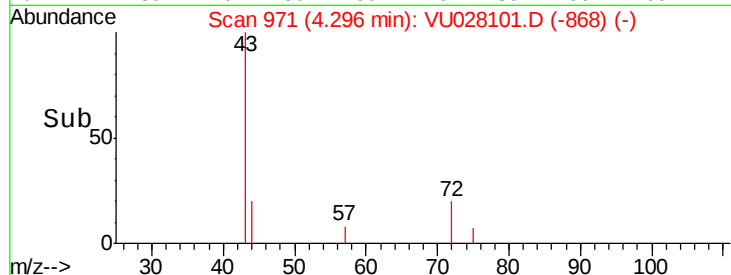
1500

1000

500

0

Time-->



#29

Tetrahydrofuran

Concen: 0.348 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU028101.D

Acq: 13 Nov 2018 18:55

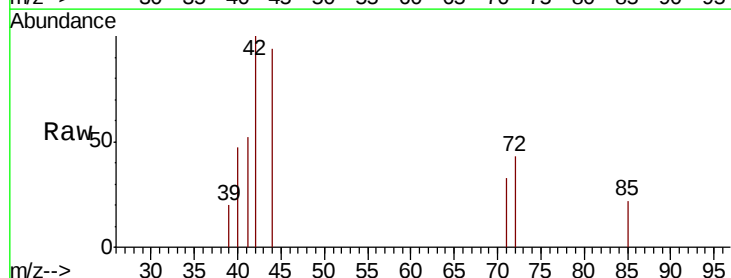
Tgt Ion: 42 Resp: 882

Ion Ratio Lower Upper

42 100

72 40.6 29.4 44.0

71 20.1 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VU027906.D (-1062) (-)

Ion 72.00 (71.70 to 72.70): VU027906.D (-1062) (-)

Ion 71.00 (70.70 to 71.70): VU027906.D (-1062) (-)

4.66

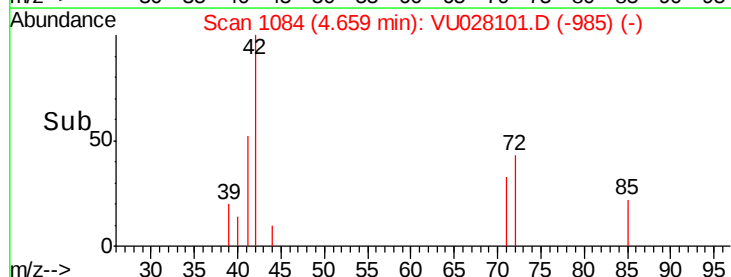
600

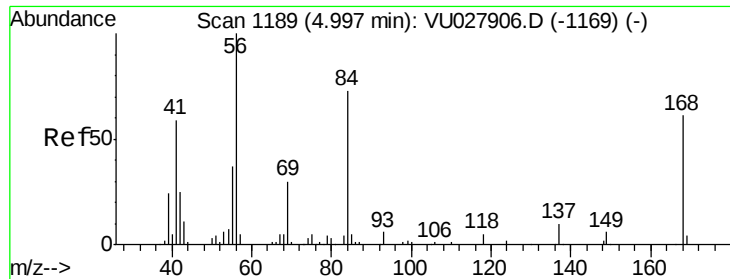
400

200

0

Time-->

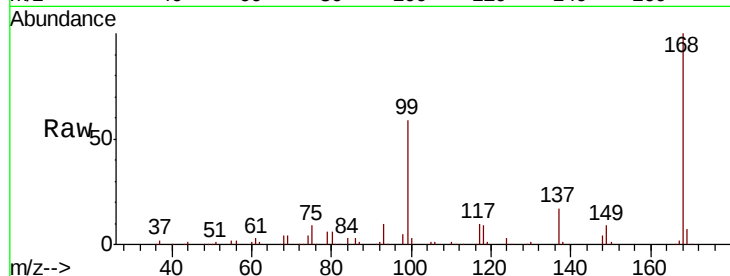




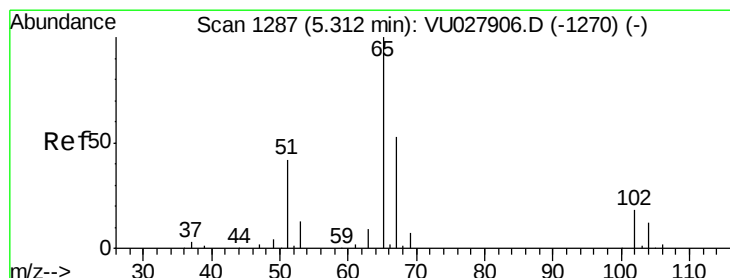
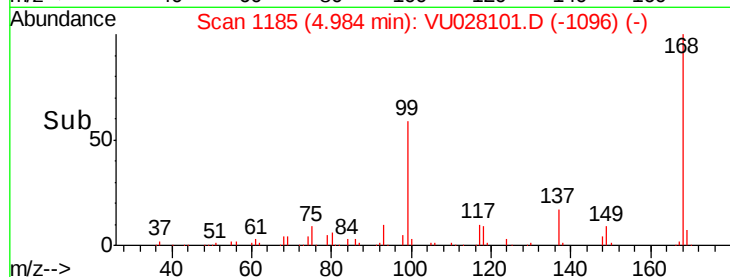
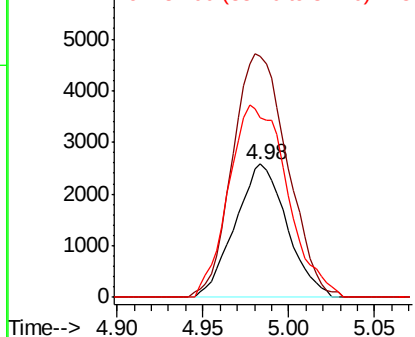
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 5392
Ion Ratio Lower Upper
56 100
69 180.8 23.7 35.5#
84 135.4 58.2 87.4#

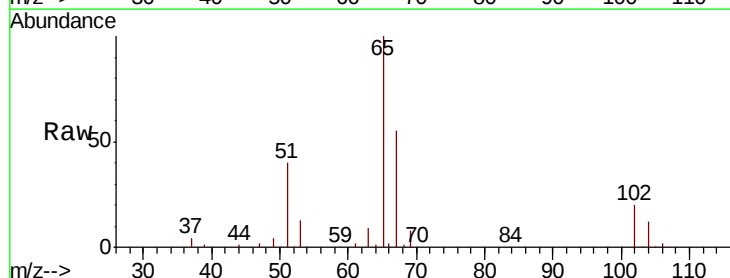


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

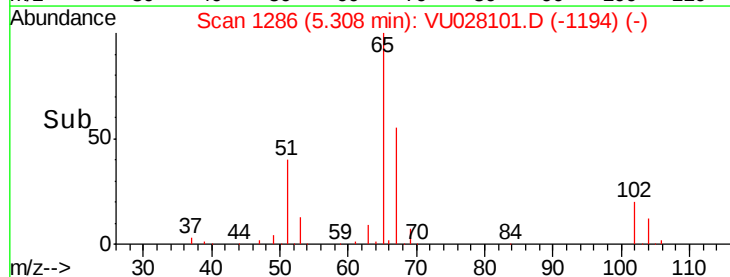
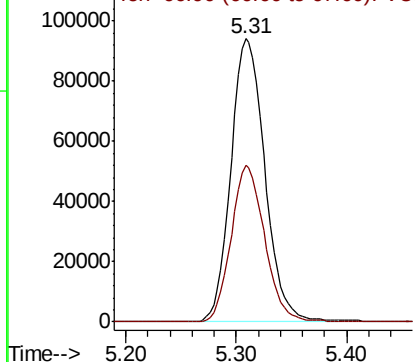


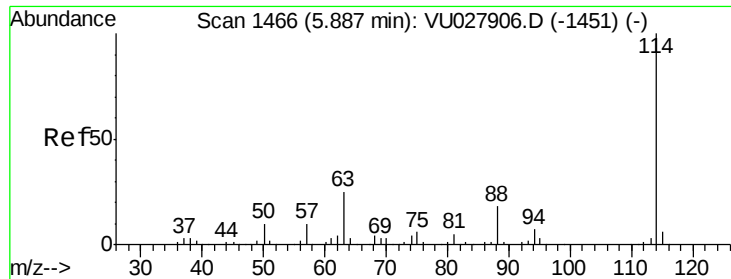
#33
1,2-Dichloroethane-d4
Concen: 52.298 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Tgt Ion: 65 Resp: 201000
Ion Ratio Lower Upper
65 100
67 54.9 0.0 109.0



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

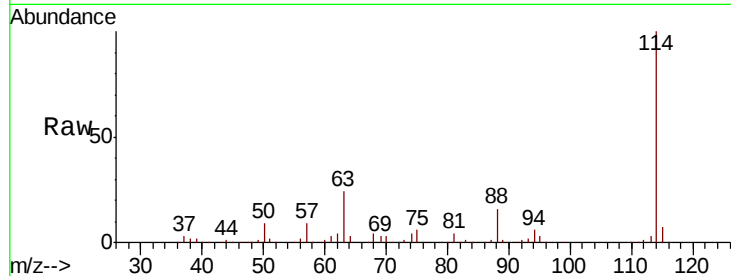




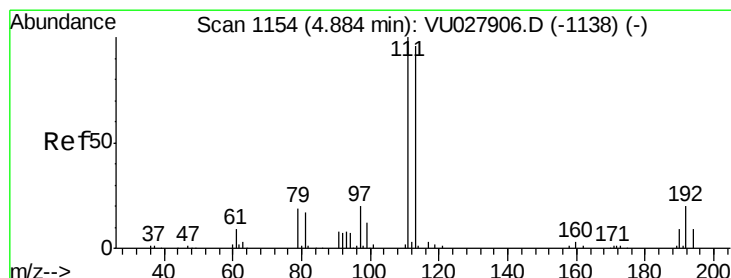
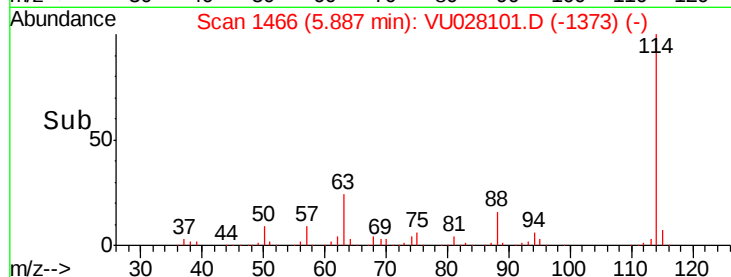
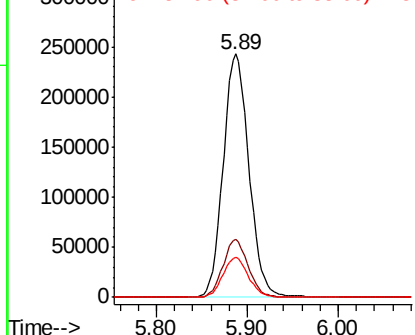
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 479072
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 50.8
 88 16.4 0.0 35.8

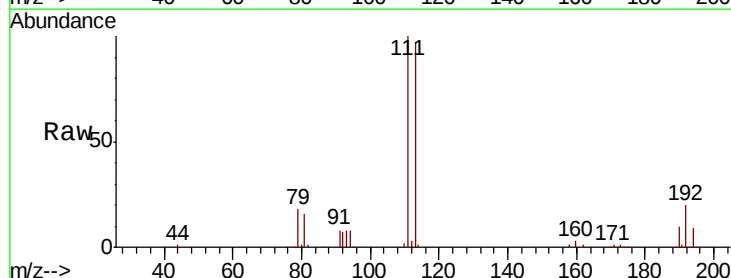


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

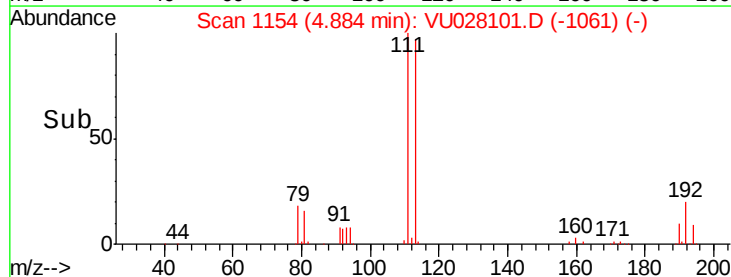
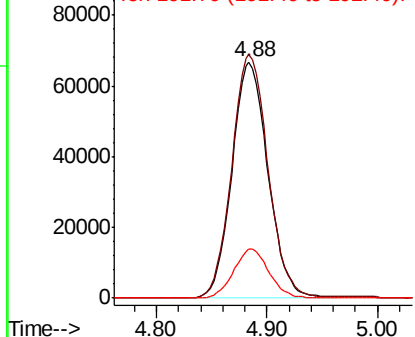


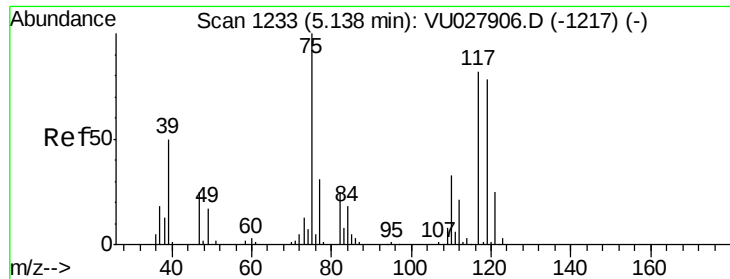
#35
 Dibromofluoromethane
 Concen: 50.070 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Tgt Ion:113 Resp: 151244
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.0 124.6
 192 20.3 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

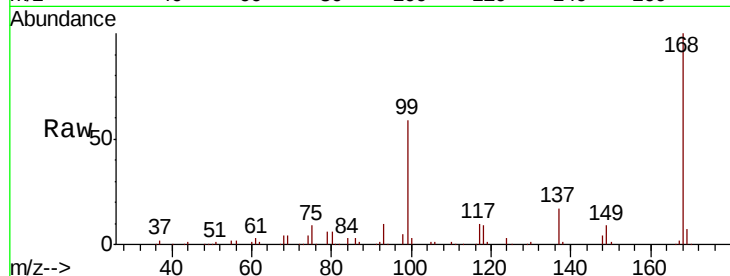




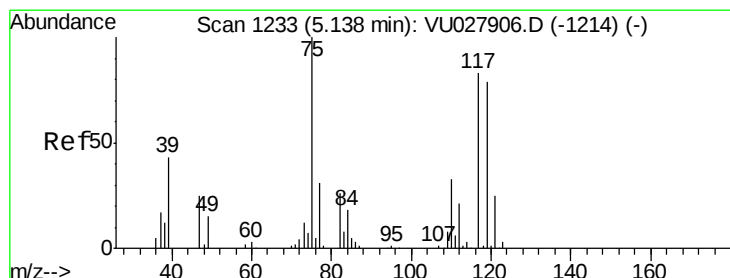
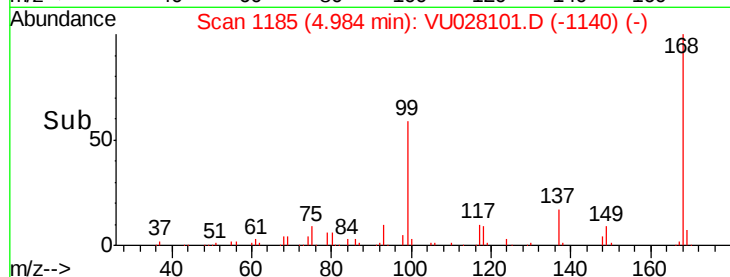
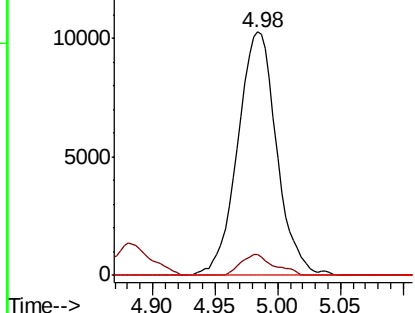
#36
 1,1-Dichloropropene
 Concen: 4.423 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 22191
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.5 49.5#
 77 0.0 24.9 37.3#

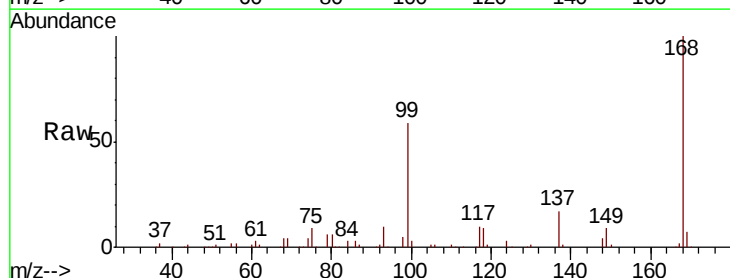


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1217) (-)
 Ion 109.90 (109.60 to 110.60): VU027906.D (-1217) (-)
 Ion 76.90 (76.60 to 77.60): VU027906.D (-1217) (-)

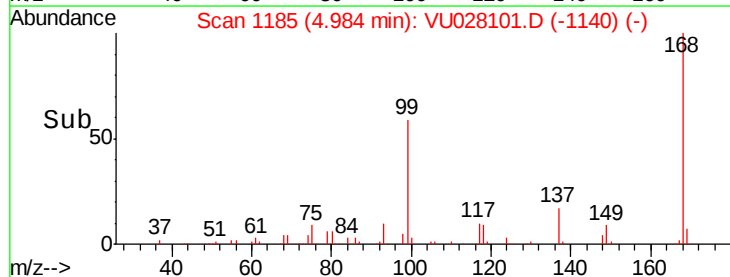
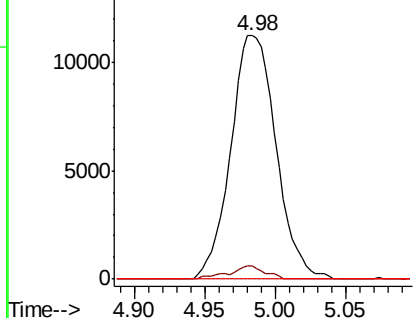


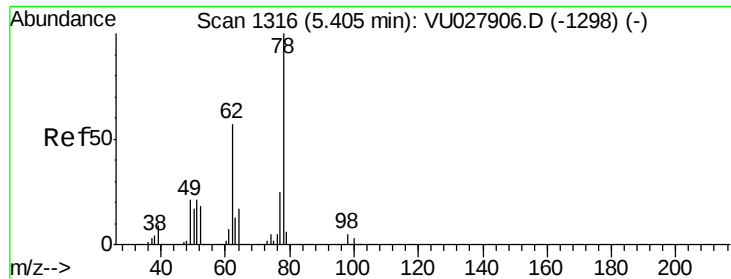
#38
 Carbon Tetrachloride
 Concen: 5.682 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Tgt Ion: 117 Resp: 25265
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.0 114.0#
 121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): VU027906.D (-1214) (-)
 Ion 118.80 (118.50 to 119.50): VU027906.D (-1214) (-)
 Ion 120.80 (120.50 to 121.50): VU027906.D (-1214) (-)

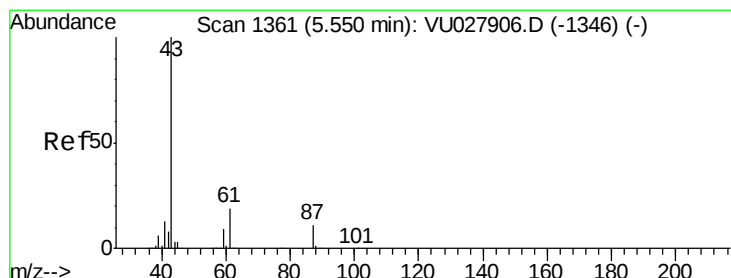
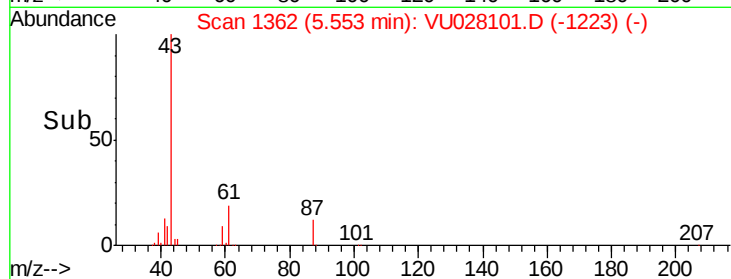
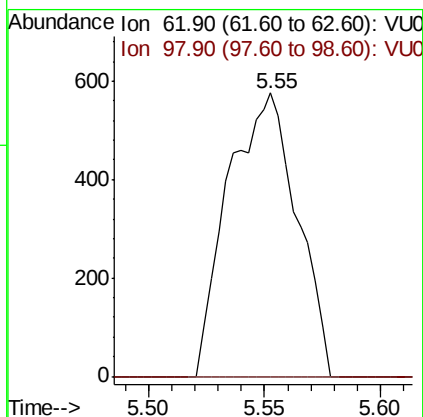
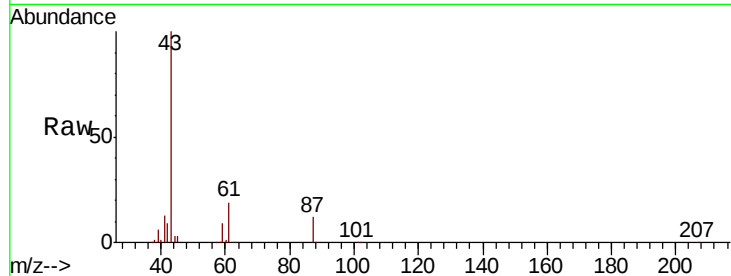




#42
 1,2-Dichloroethane
 Concen: 0.218 ug/l
 RT: 5.55 min Scan# 1362
 Delta R.T. 0.15 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

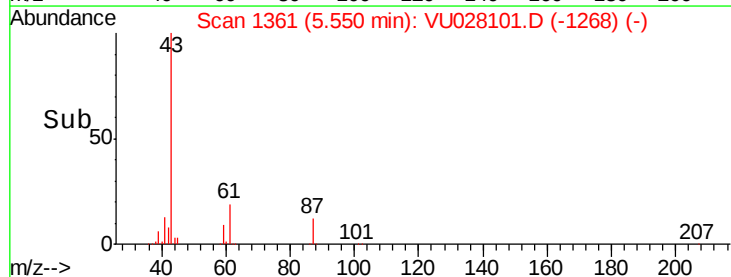
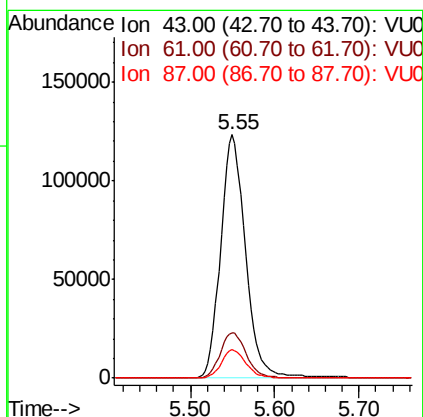
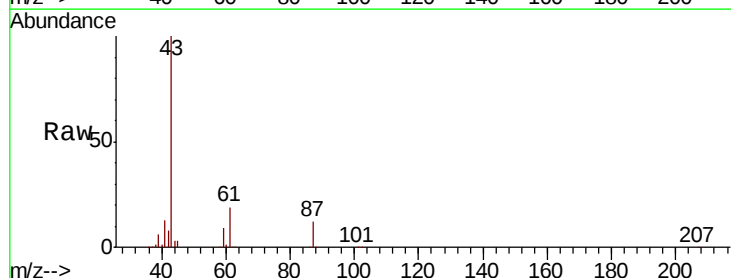
Instrument :
 MSVOA_U
 ClientSampleId :

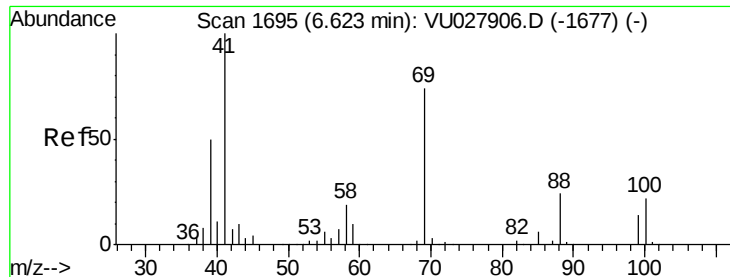
Tot Ion: 62 Resp: 1189
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 17.2



#43
 Isopropyl Acetate
 Concen: 22.064 ug/l
 RT: 5.55 min Scan# 1361
 Delta R.T. -0.00 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Tgt Ion: 43 Resp: 254134
 Ion Ratio Lower Upper
 43 100
 61 19.3 15.0 22.4
 87 11.5 8.6 12.8

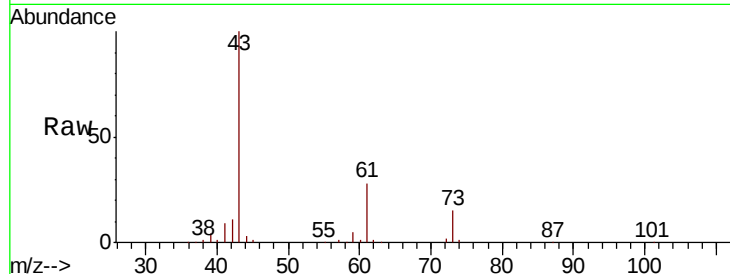




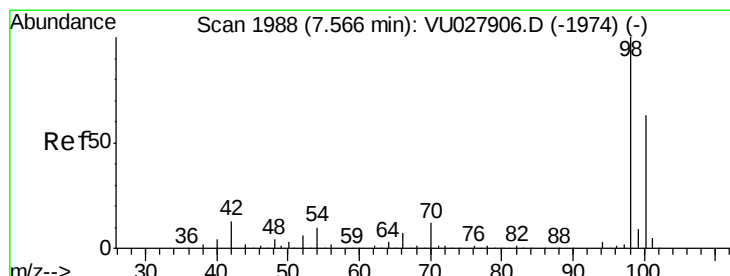
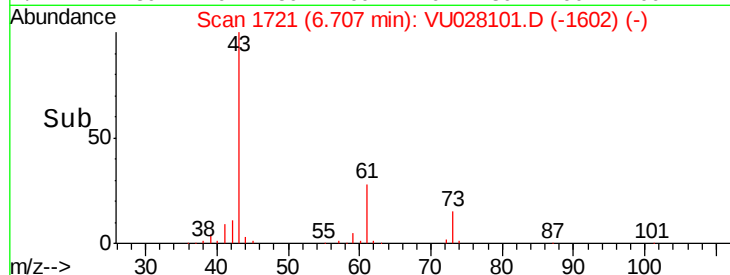
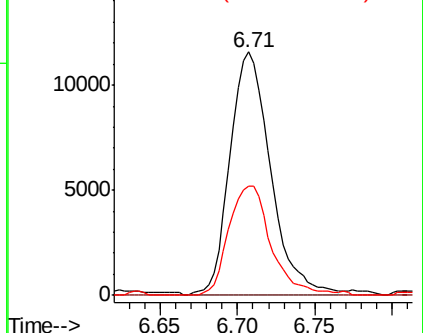
#48
Methvl methacrylate
Concen: 3.763 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.08 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 41 Resp: 21239
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 46.4 40.0 60.0

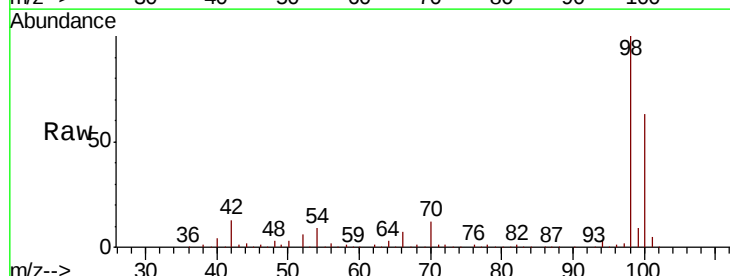


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

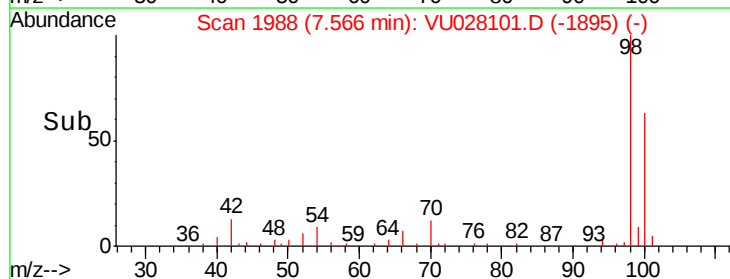
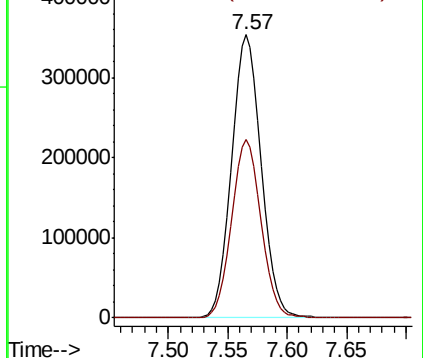


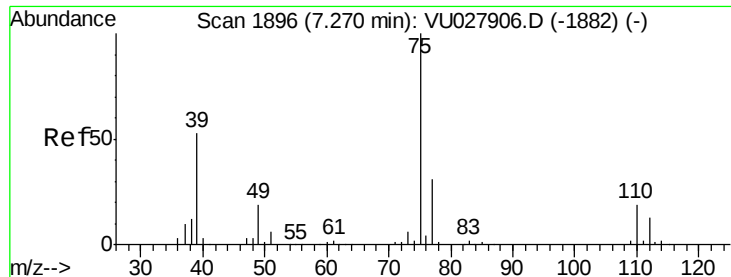
#50
Toluene-d8
Concen: 52.300 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Tgt Ion: 98 Resp: 610262
Ion Ratio Lower Upper
98 100
100 62.7 50.1 75.1



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



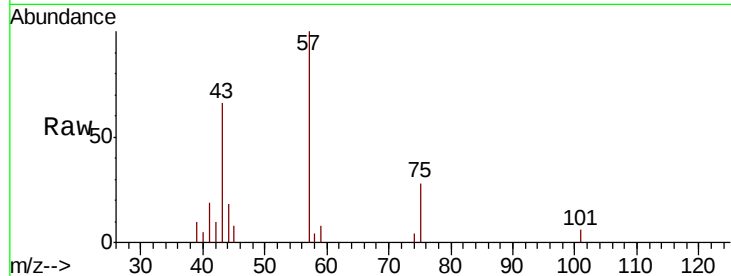


#54

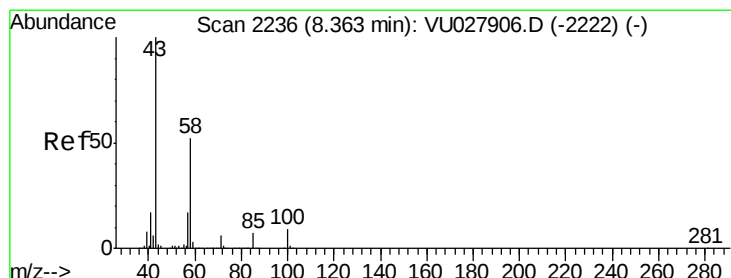
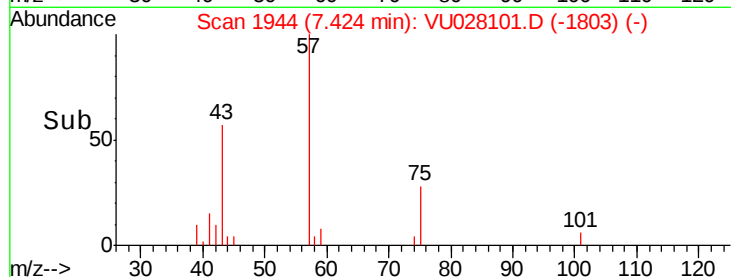
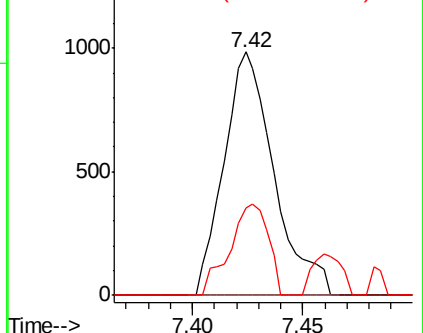
cis-1,3-Dichloropropene
 Concen: 0.257 ug/l
 RT: 7.42 min Scan# 1944
 Delta R.T. 0.15 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.6	37.0#
39	35.9	42.6	64.0#



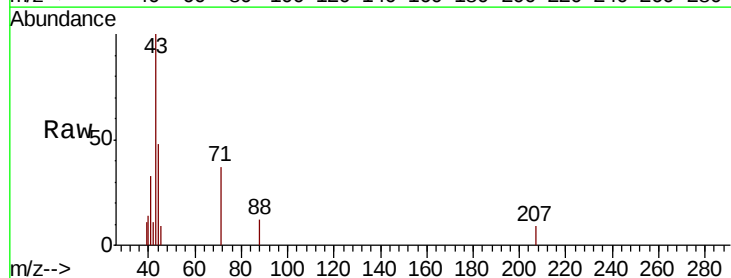
Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 76.90 (76.60 to 77.60): VU0
 Ion 39.00 (38.70 to 39.70): VU0



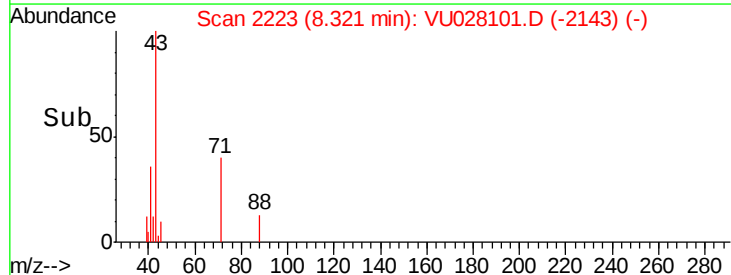
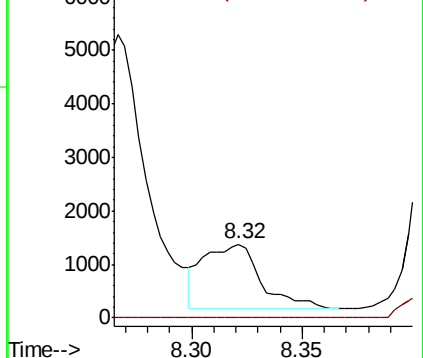
#59

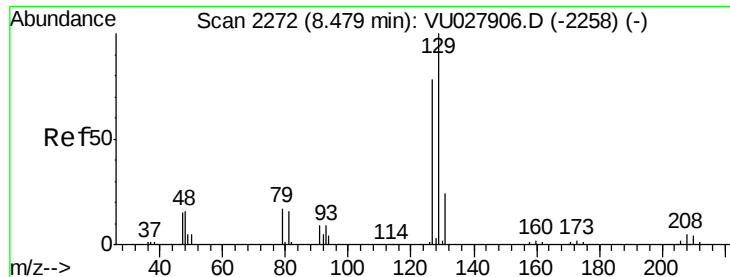
2-Hexanone
 Concen: 0.366 ug/l
 RT: 8.32 min Scan# 2223
 Delta R.T. -0.04 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.8	77.3#



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





#60

Dibromochloromethane

Concen: 0.274 ug/l

RT: 8.23 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VU028101.D

Acq: 13 Nov 2018 18:55

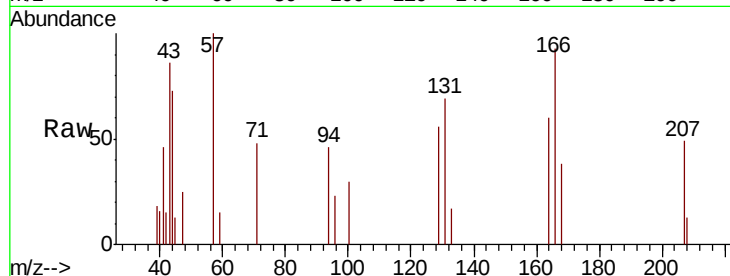
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:129 Resp: 951

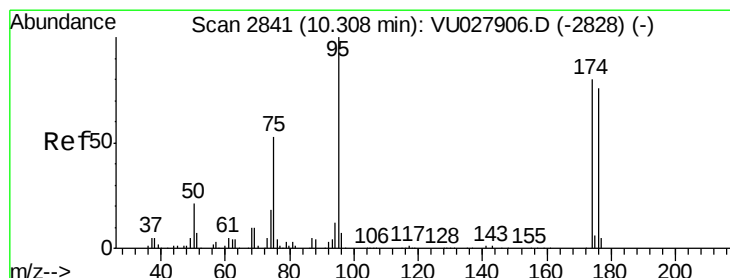
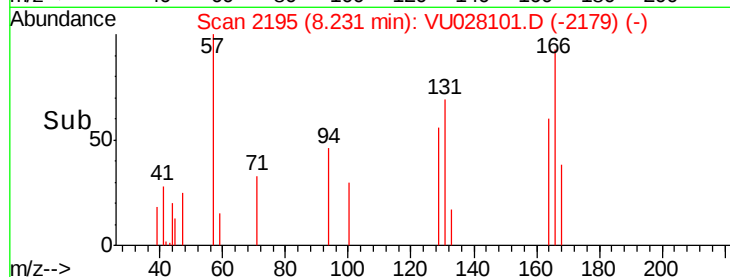
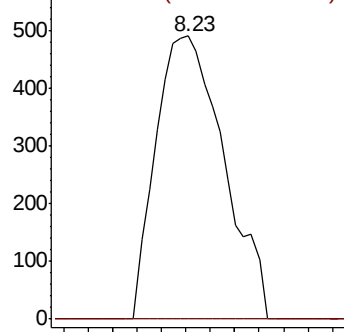
Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.005 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028101.D

Acq: 13 Nov 2018 18:55

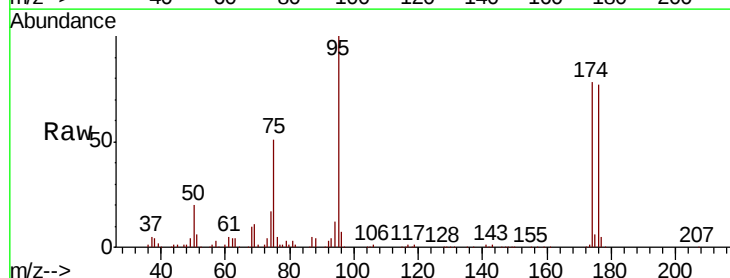
Tgt Ion: 95 Resp: 202301

Ion Ratio Lower Upper

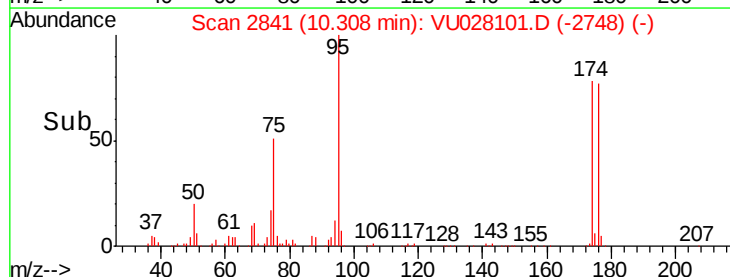
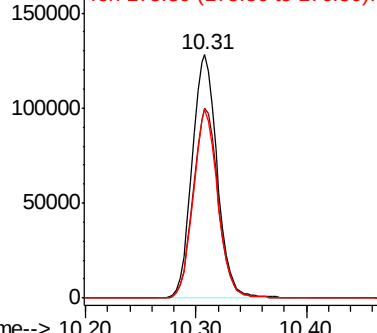
95 100

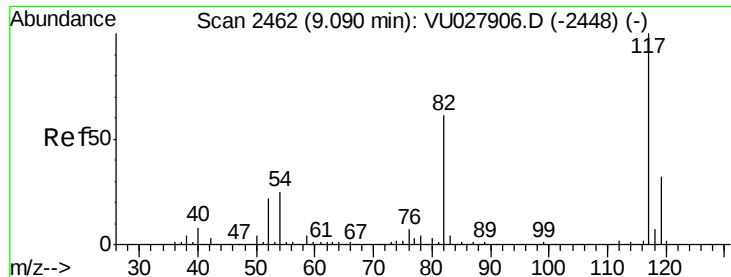
174 77.8 0.0 156.4

176 75.6 0.0 150.8



Abundance Ion 94.90 (94.60 to 95.60): VU0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

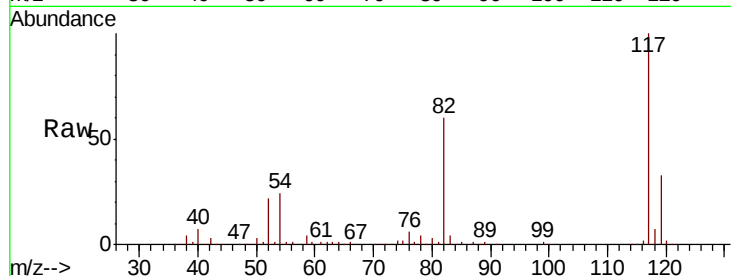




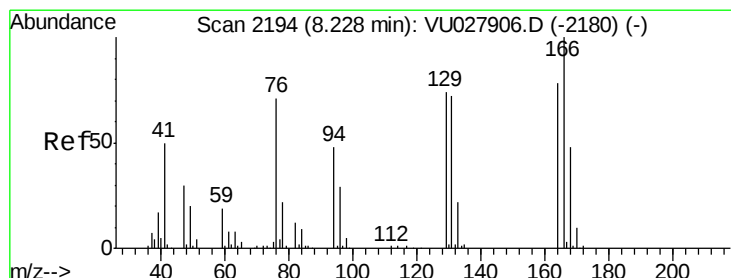
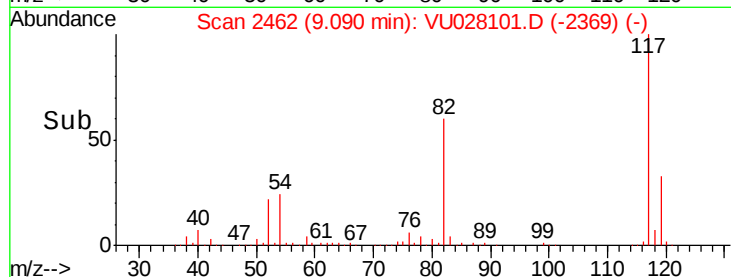
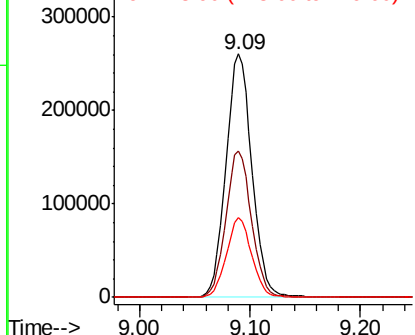
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 425783
Ion Ratio Lower Upper
117 100
82 60.3 48.6 73.0
119 32.5 25.8 38.8

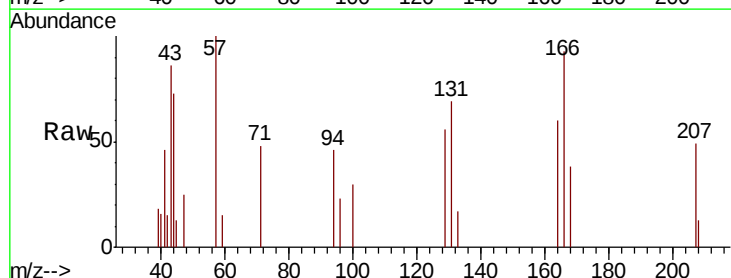


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

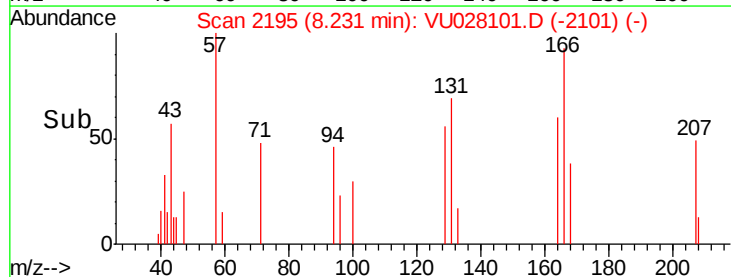
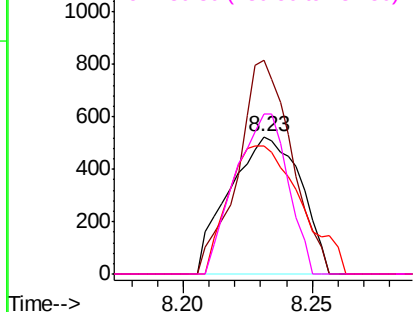


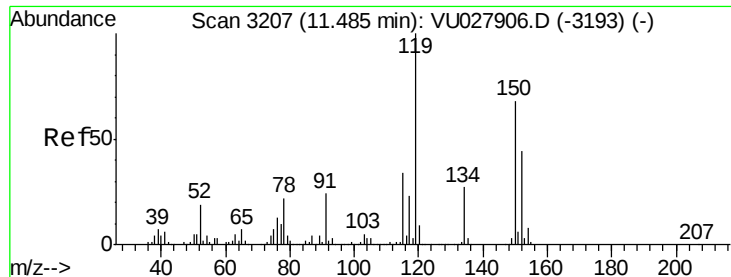
#64
Tetrachloroethene
Concen: 0.367 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. 0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Tgt Ion:164 Resp: 1013
Ion Ratio Lower Upper
164 100
166 155.2 102.1 153.1#
129 93.5 75.9 113.9
131 116.4 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



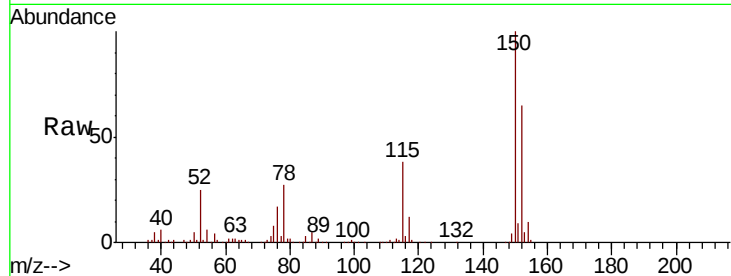


#72

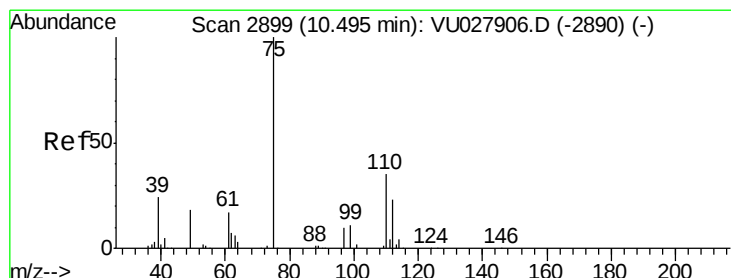
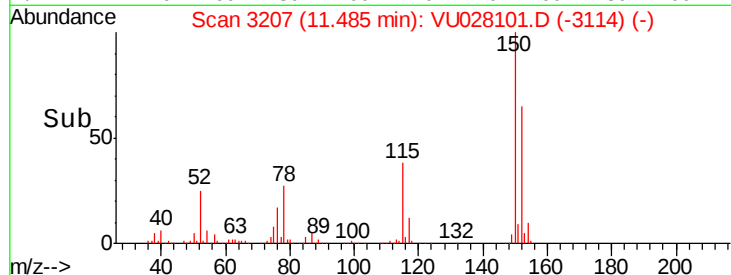
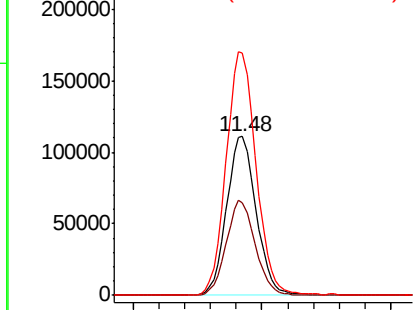
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.9	43.0	129.0
150	154.9	0.0	349.4



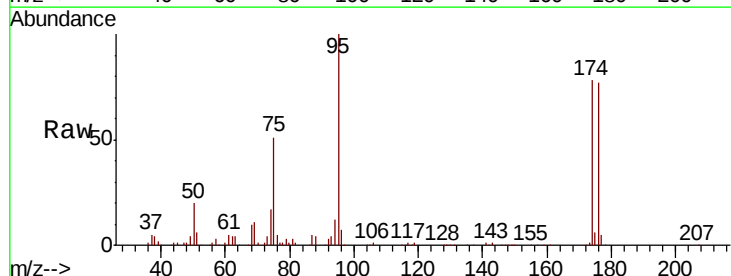
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



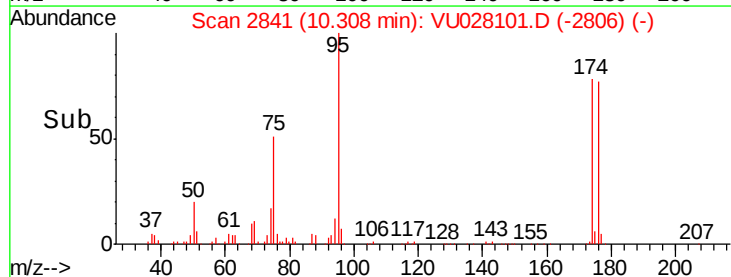
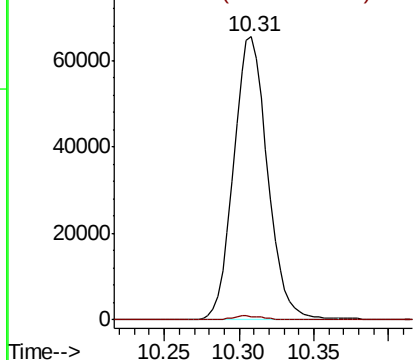
#76

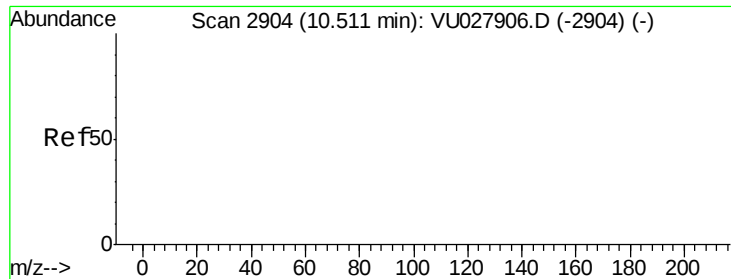
1,2,3-Trichloropropane
Concen: 21.405 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028101.D
Acq: 13 Nov 2018 18:55

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

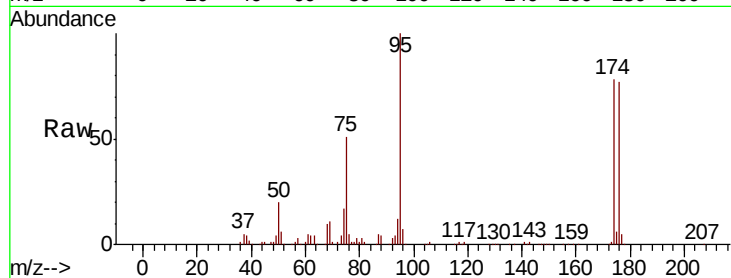




#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.427 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.20 min
 Lab File: VU028101.D
 Acq: 13 Nov 2018 18:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 103372
 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

