

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111318\
 Data File : VU028100.D
 Acq On : 13 Nov 2018 18:30
 Operator : MD/SY
 Sample : J5909-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 07:01:12 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	4.98	168	263531	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	483164	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	431481	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	172908	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	202443	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
35) Dibromofluoromethane	4.88	113	154816	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
50) Toluene-d8	7.57	98	613534	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	10.31	95	199825	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	

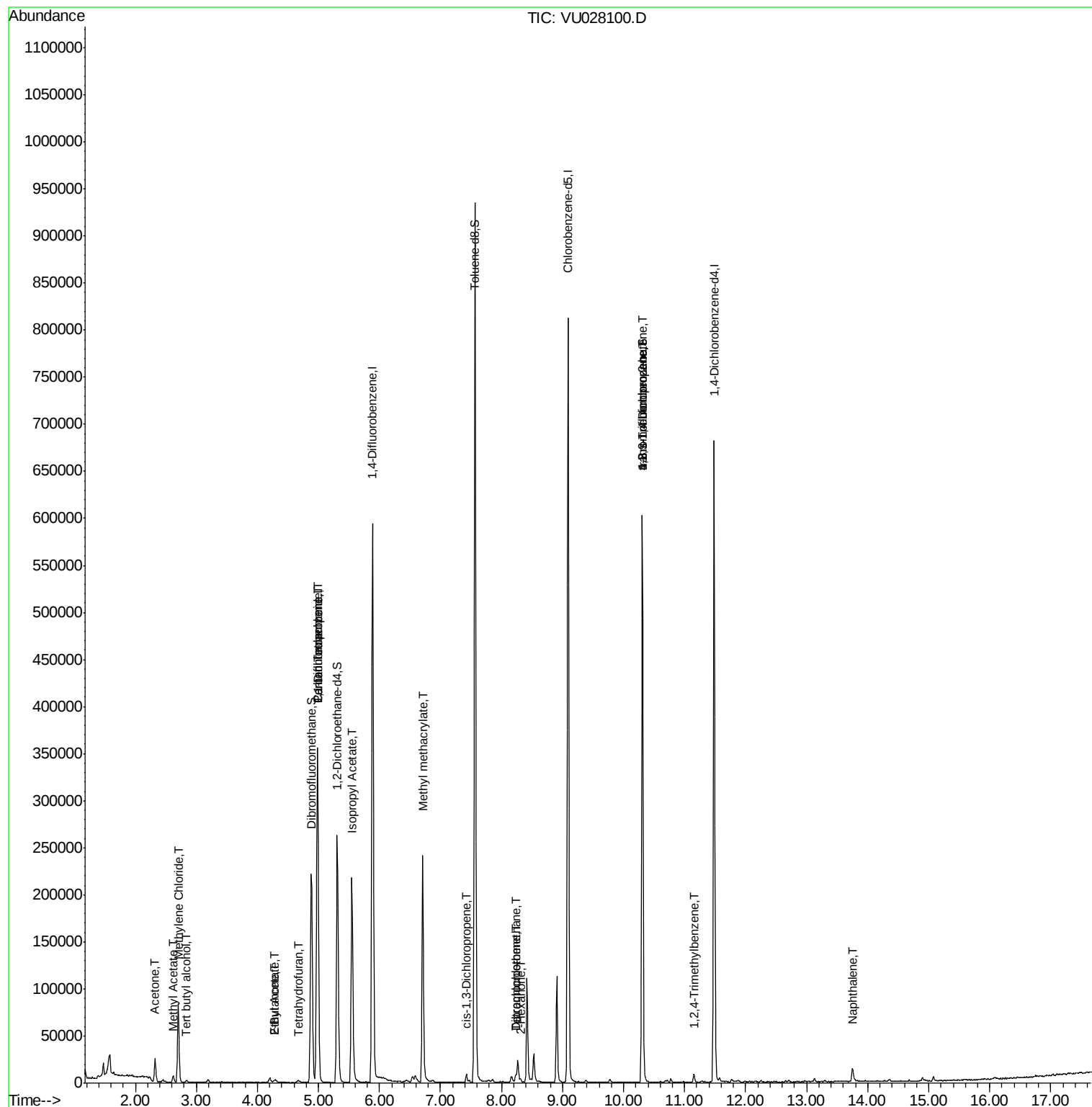
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	1437	1.385	ug/l #	73
13) Acrolein	2.20	56	457	Below Cal	#	66
16) Acetone	2.32	43	25356	10.431	ug/l	98
18) Methyl Acetate	2.62	43	9020	1.349	ug/l	99
20) Methylene Chloride	2.70	84	36142	10.183	ug/l	96
25) 2-Butanone	4.28	43	4762	1.231	ug/l	92
29) Tetrahydrofuran	4.66	42	1123	0.435	ug/l #	83
31) Cyclohexane	4.98	56	6020	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	22236	4.394	ug/l #	49
37) Ethyl Acetate	4.28	43	4762	0.642	ug/l #	71
38) Carbon Tetrachloride	4.98	117	26719	5.958	ug/l #	16
43) Isopropyl Acetate	5.55	43	250999	21.607	ug/l	97
48) Methyl methacrylate	6.71	41	21579	3.791	ug/l #	47
54) cis-1,3-Dichloropropene	7.42	75	1627	0.267	ug/l #	66
59) 2-Hexanone	8.32	43	1966	0.328	ug/l #	26
60) Dibromochloromethane	8.23	129	1148	0.328	ug/l #	10
64) Tetrachloroethene	8.22	164	1038	0.371	ug/l #	74
76) 1,2,3-Trichloropropane	10.31	75	101604	21.483	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	101604	53.619	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	5744	0.514	ug/l	95
95) Naphthalene	13.75	128	16118	0.958	ug/l	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028100.D

Acq: 13 Nov 2018 18:30

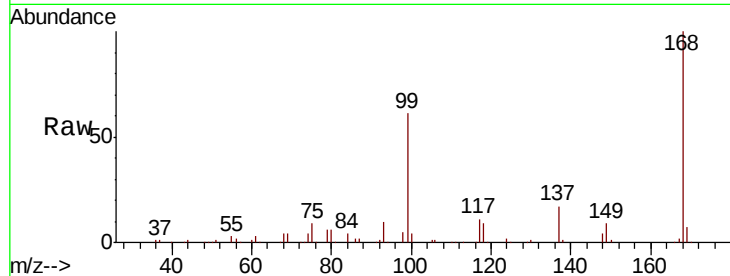
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 263531

Ion Ratio Lower Upper

168 100

99 60.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU028100.D (-1092) (-)

Ion 98.90 (98.60 to 99.60): VU028100.D (-1092) (-)

4.98

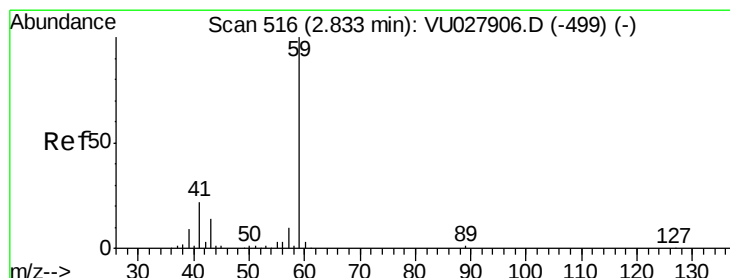
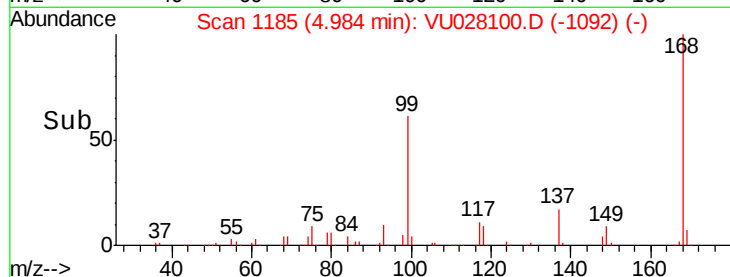
100000

50000

0

Time-->

4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.385 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU028100.D

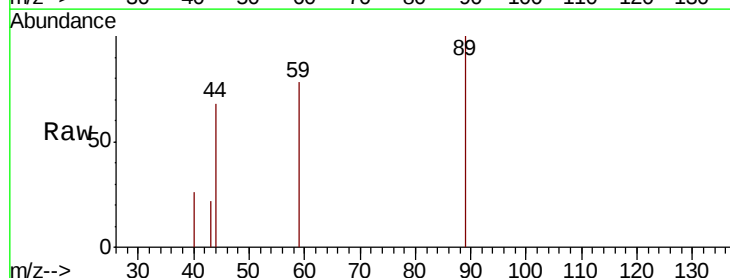
Acq: 13 Nov 2018 18:30

Tgt Ion: 59 Resp: 1437

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU028100.D (-423) (-)

Ion 57.00 (56.70 to 57.70): VU028100.D (-423) (-)

2.84

800

600

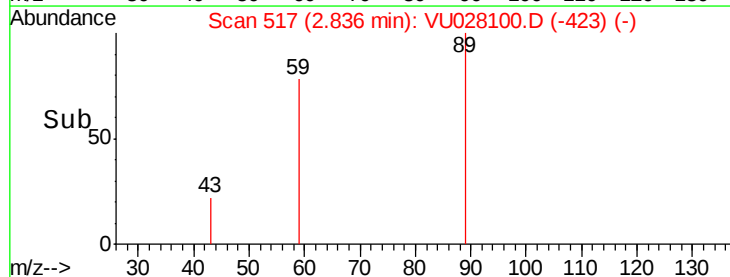
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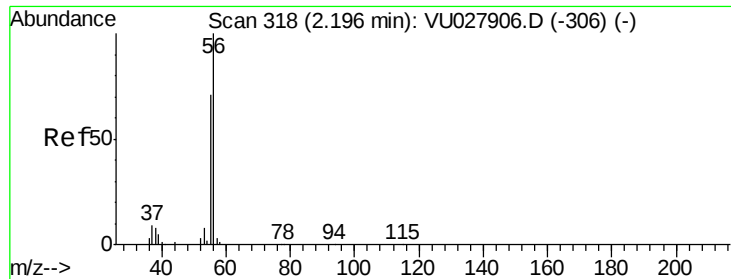
200

0

Time-->

2.80 2.85





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 319

Delta R.T. 0.00 min

Lab File: VU028100.D

Acq: 13 Nov 2018 18:30

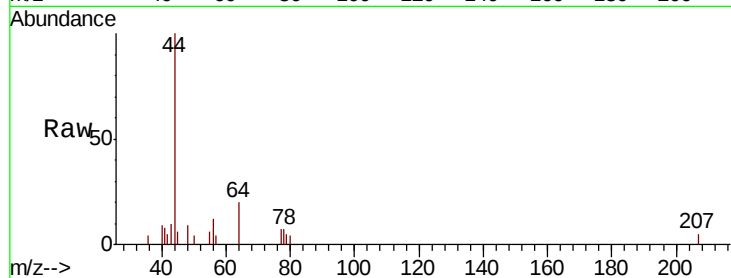
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 457

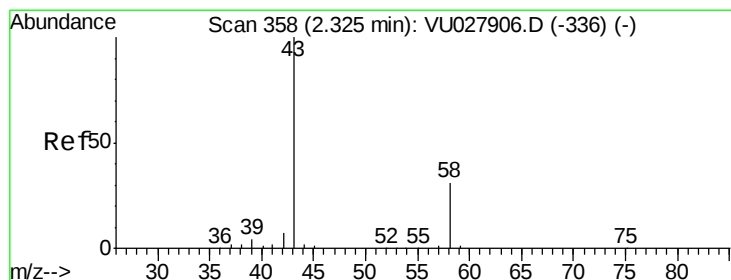
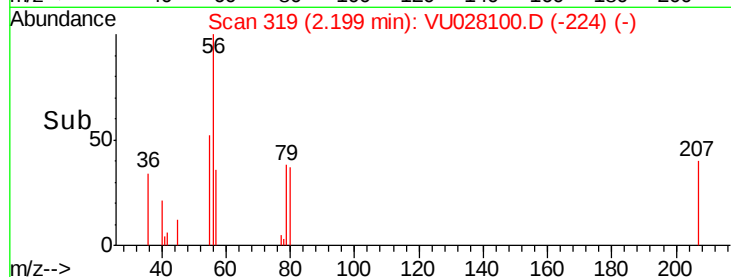
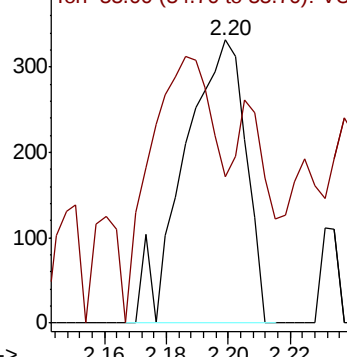
Ion Ratio Lower Upper

56 100

55 42.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 10.431 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028100.D

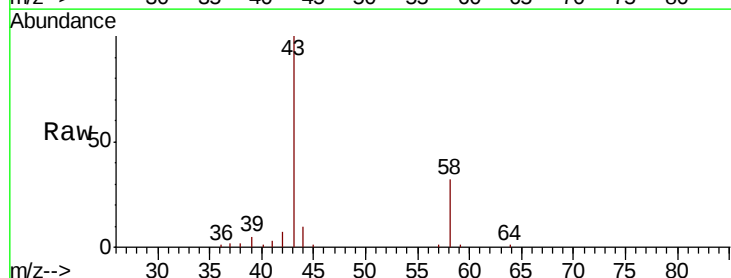
Acq: 13 Nov 2018 18:30

Tgt Ion: 43 Resp: 25356

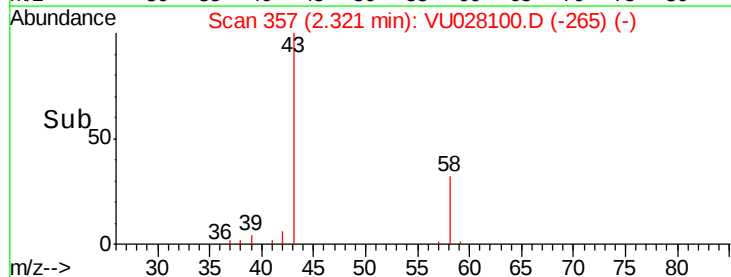
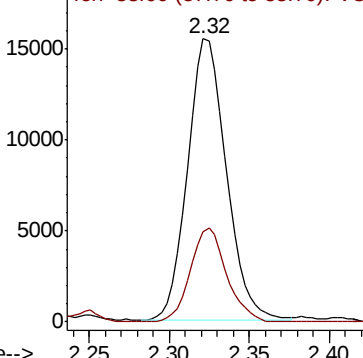
Ion Ratio Lower Upper

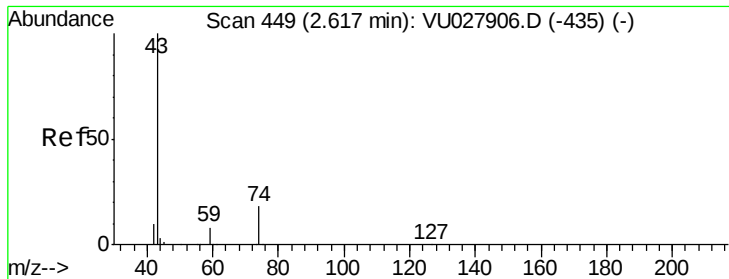
43 100

58 32.0 24.6 37.0



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

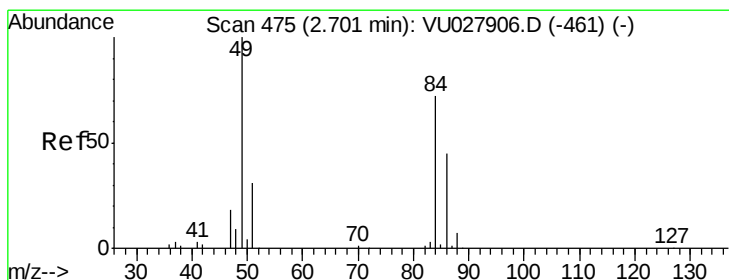
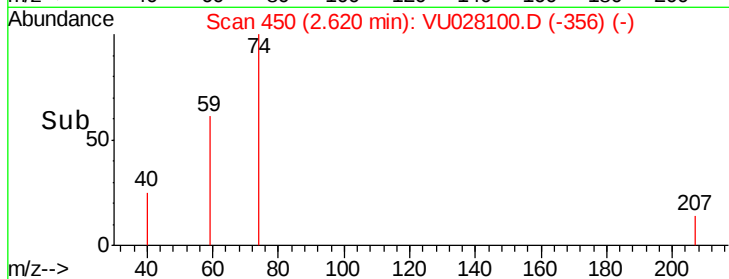
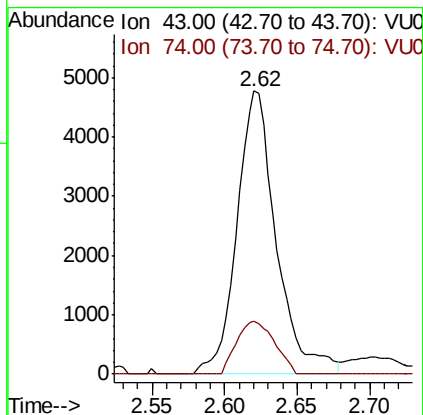
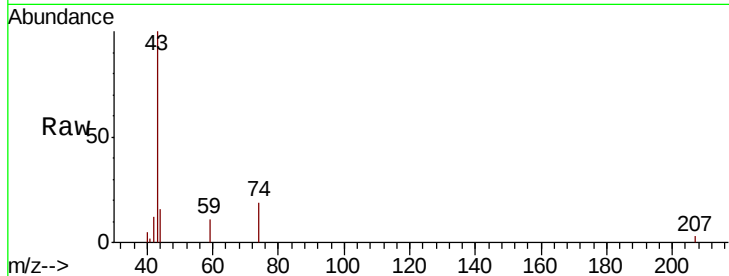




#18
Methvl Acetate
Concen: 1.349 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

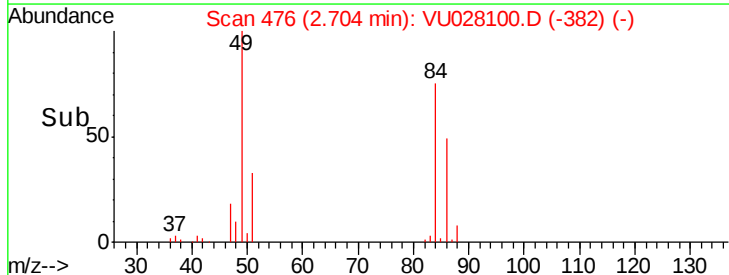
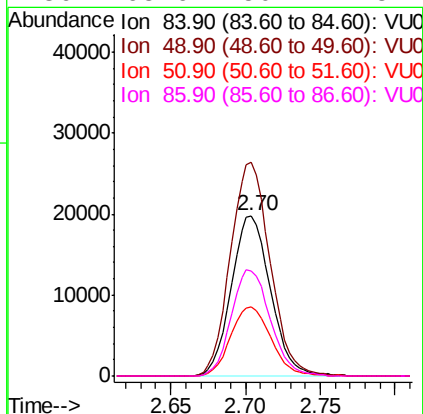
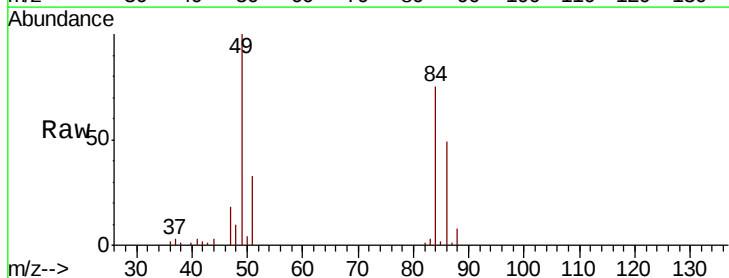
Instrument :
MSVOA_U
ClientSampleId :

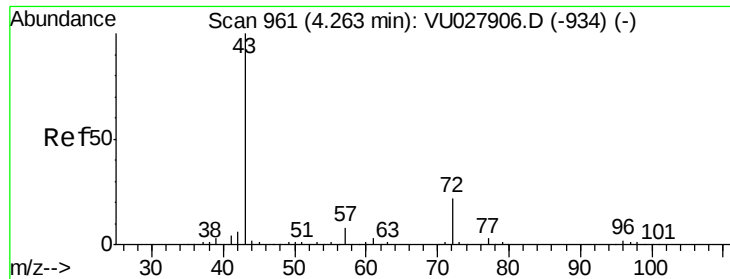
Tot Ion: 43 Resp: 9020
Ion Ratio Lower Upper
43 100
74 17.9 14.9 22.3



#20
Methylene Chloride
Concen: 10.183 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Tgt Ion: 84 Resp: 36142
Ion Ratio Lower Upper
84 100
49 133.1 111.6 167.4
51 43.4 34.8 52.2
86 65.6 50.1 75.1





#25

2-Butanone

Concen: 1.231 ug/l

RT: 4.28 min Scan# 966

Delta R.T. 0.02 min

Lab File: VU028100.D

Acq: 13 Nov 2018 18:30

Instrument :

MSVOA_U

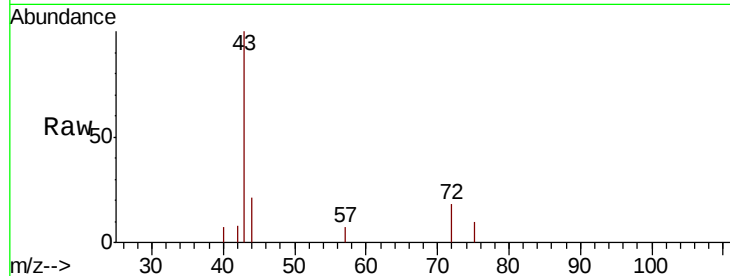
ClientSampleId :

Tot Ion: 43 Resp: 4762

Ion Ratio Lower Upper

43 100

72 18.1 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) (-)

4.28

2000

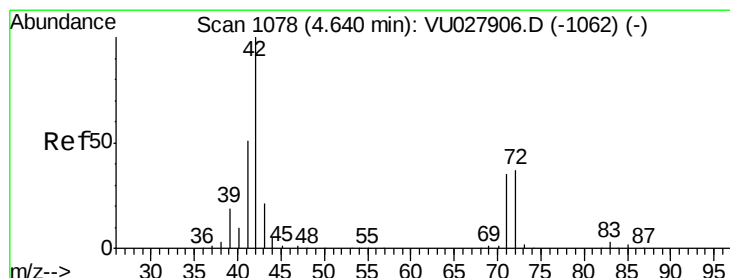
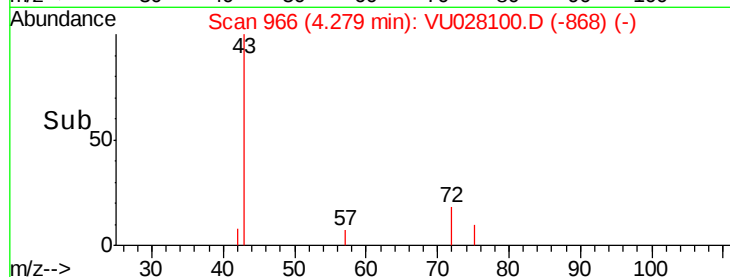
1500

1000

500

0

Time-->



#29

Tetrahydrofuran

Concen: 0.435 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU028100.D

Acq: 13 Nov 2018 18:30

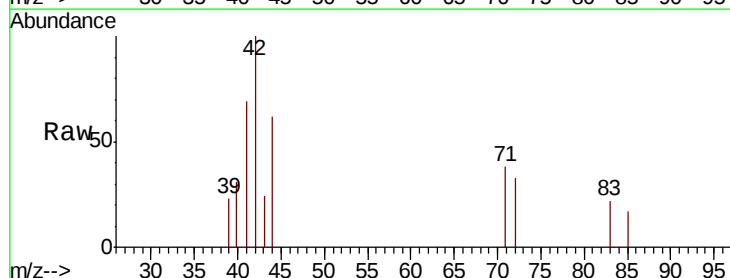
Tgt Ion: 42 Resp: 1123

Ion Ratio Lower Upper

42 100

72 29.1 29.4 44.0#

71 22.1 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

800

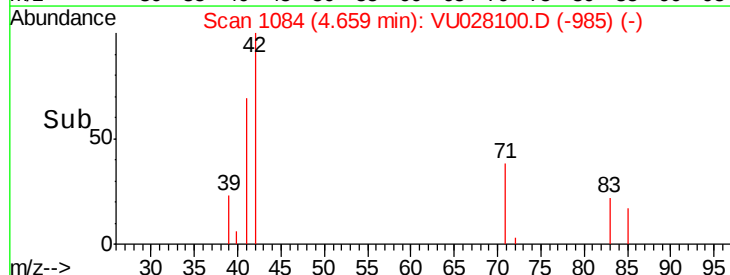
600

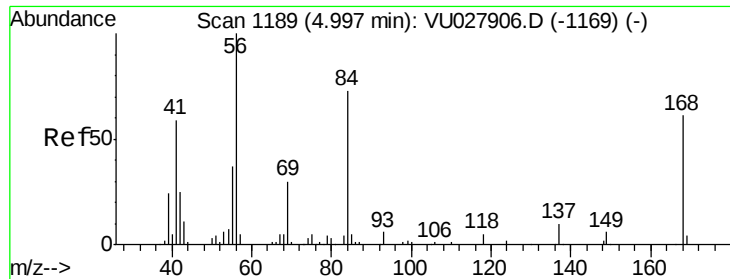
400

200

0

Time-->

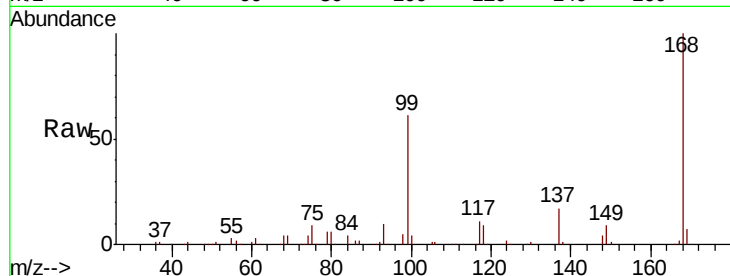




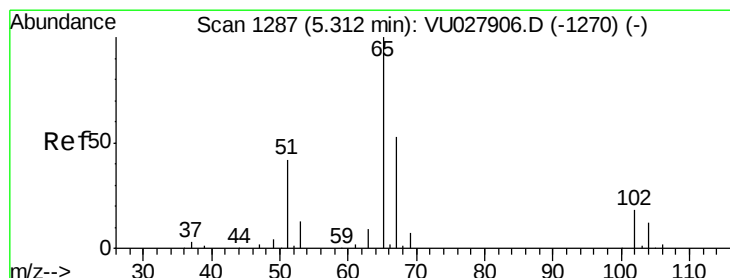
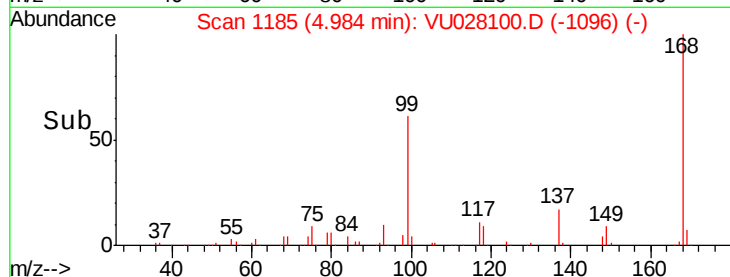
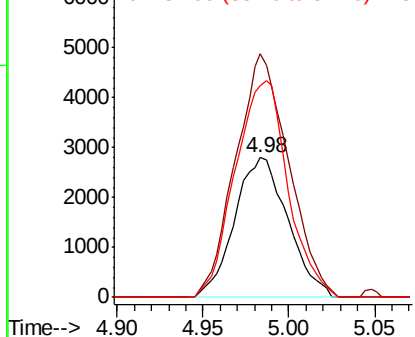
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 6020
Ion Ratio Lower Upper
56 100
69 174.7 23.7 35.5#
84 151.5 58.2 87.4#

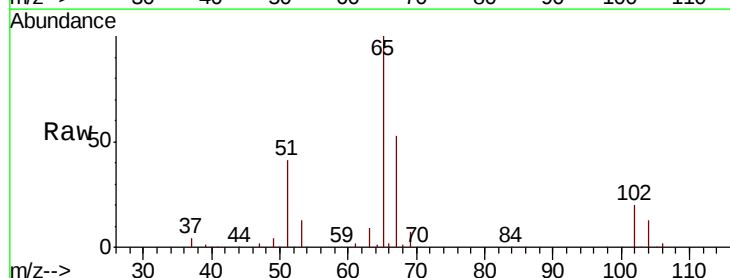


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

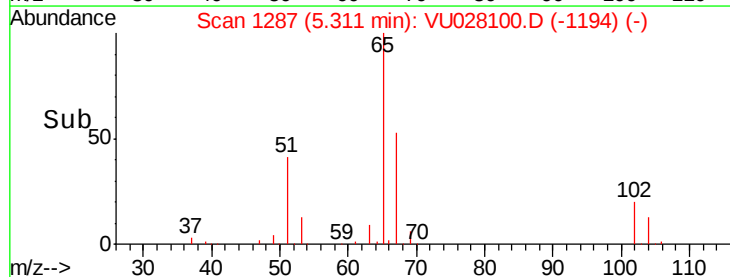
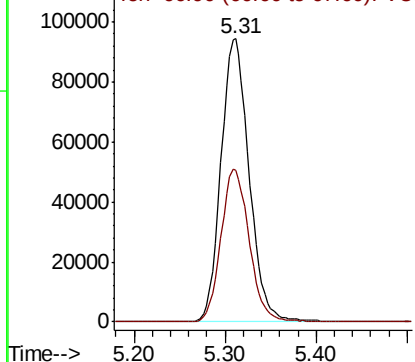


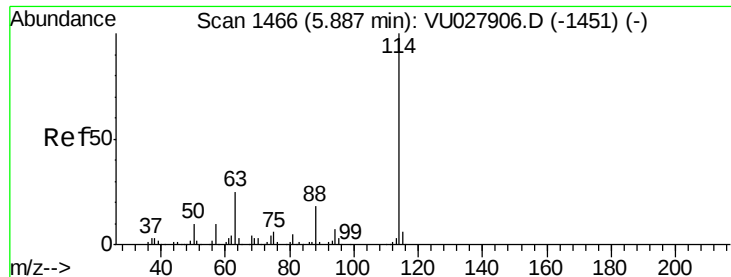
#33
1,2-Dichloroethane-d4
Concen: 51.669 ug/l
RT: 5.31 min Scan# 1287
Delta R.T. -0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Tgt Ion: 65 Resp: 202443
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.0



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

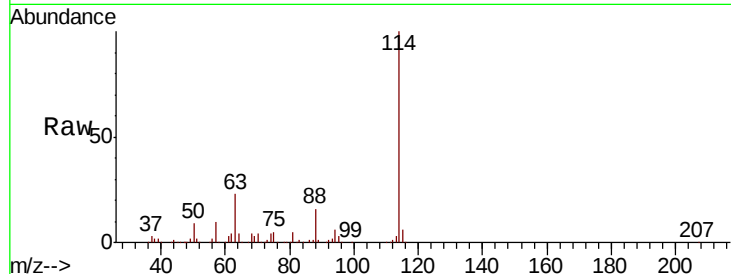




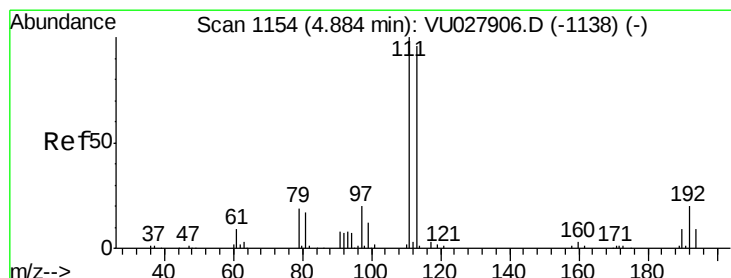
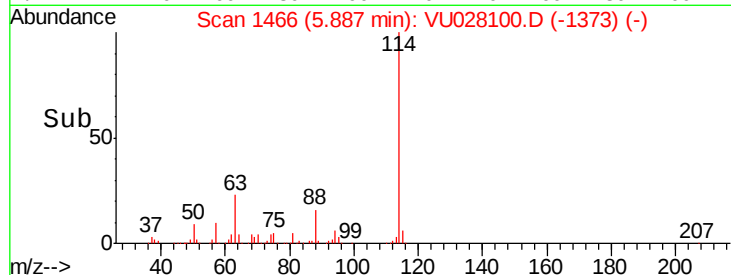
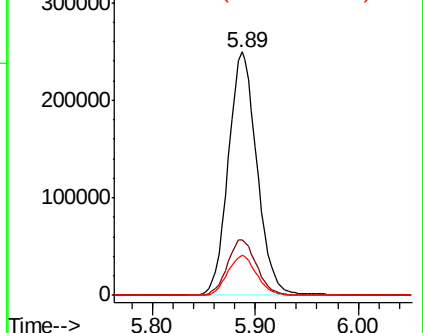
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	50.8
88	16.4	0.0	35.8

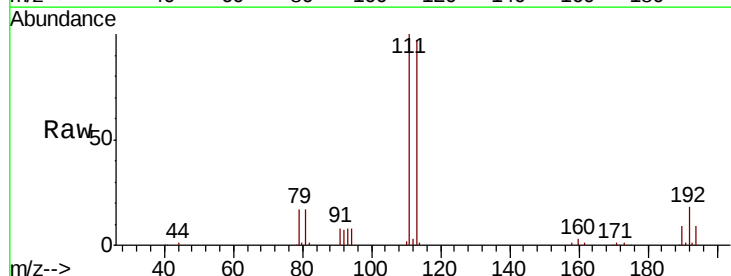


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

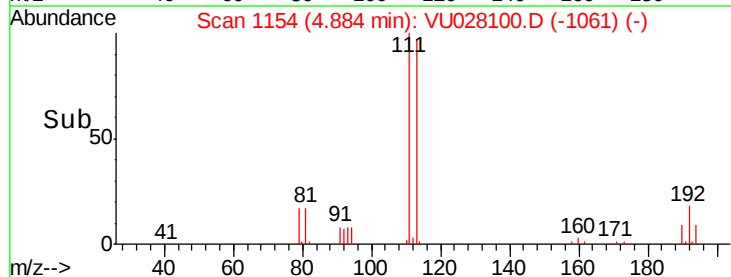
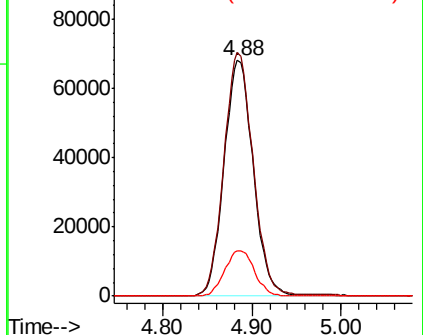


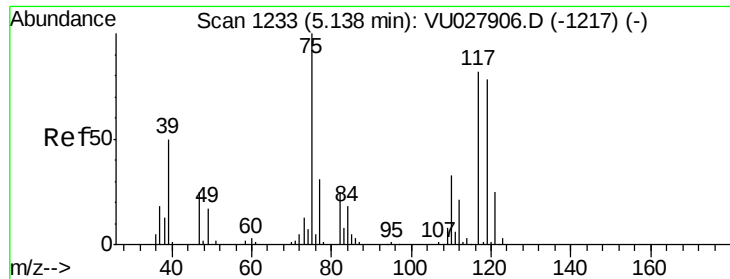
#35
 Dibromofluoromethane
 Concen: 50.819 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.0	124.6
192	19.6	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

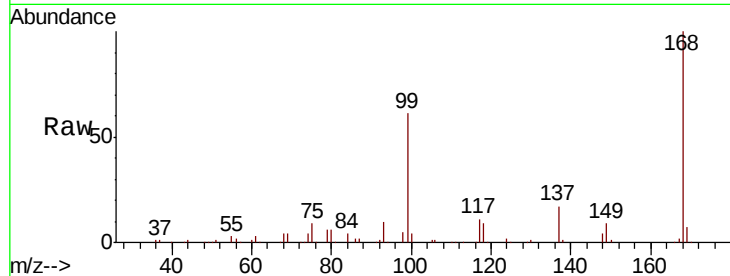




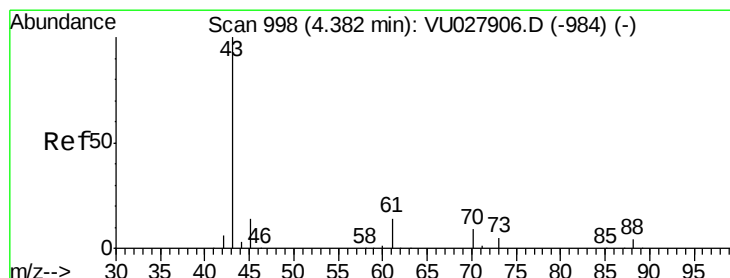
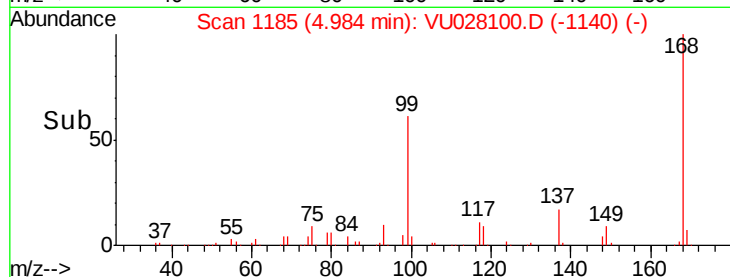
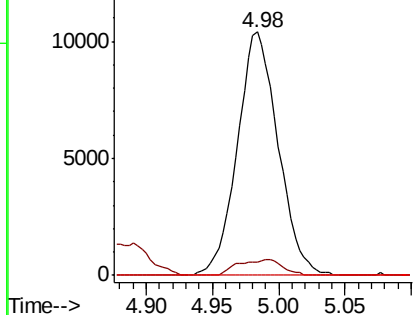
#36
 1,1-Dichloropropene
 Concen: 4.394 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 22236
 Ion Ratio Lower Upper
 75 100
 110 7.1 16.5 49.5#
 77 0.0 24.9 37.3#

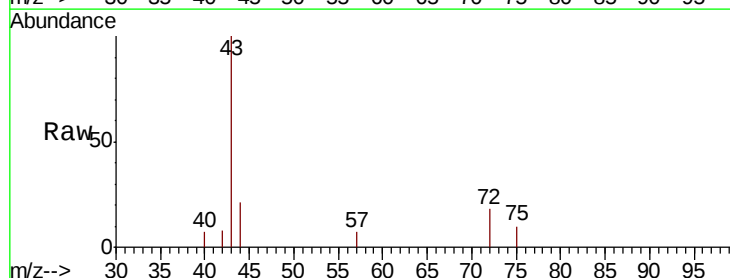


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): VU0
 Ion 76.90 (76.60 to 77.60): VU0

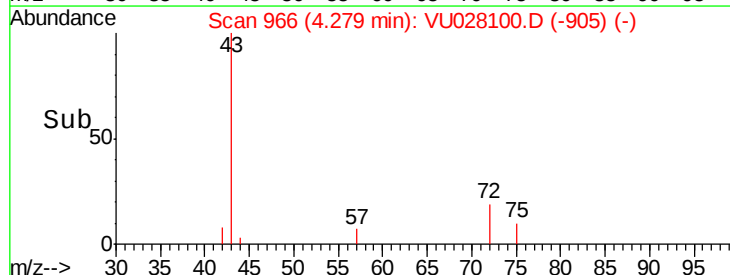
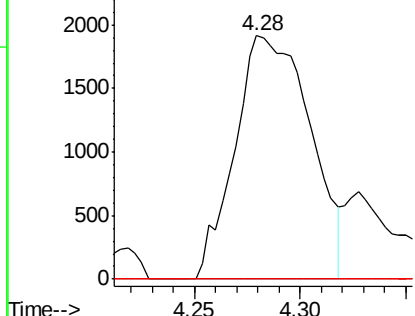


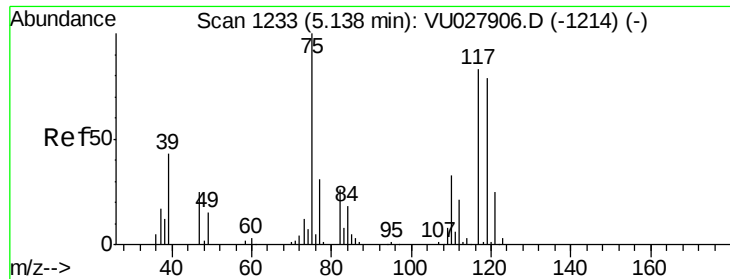
#37
 Ethyl Acetate
 Concen: 0.642 ug/l
 RT: 4.28 min Scan# 966
 Delta R.T. -0.10 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Tgt Ion: 43 Resp: 4762
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.3 15.5#
 70 0.0 7.0 10.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 70.00 (69.70 to 70.70): VU0

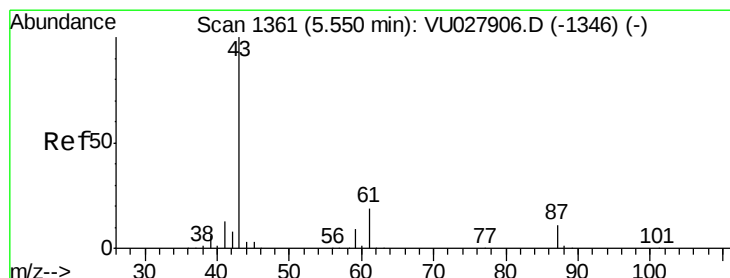
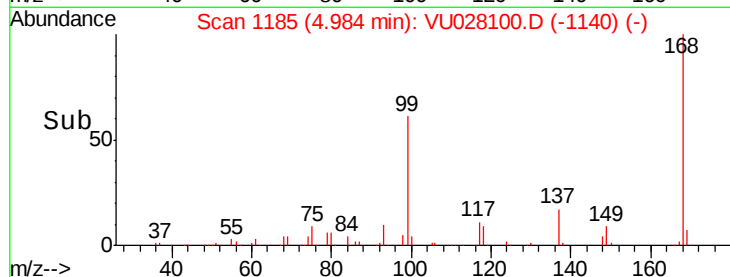
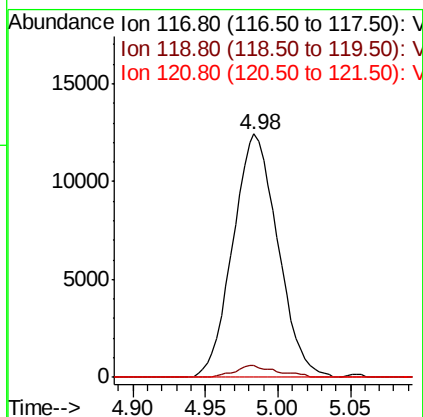
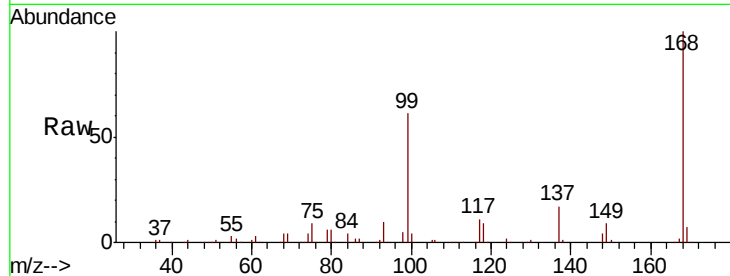




#38
 Carbon Tetrachloride
 Concen: 5.958 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

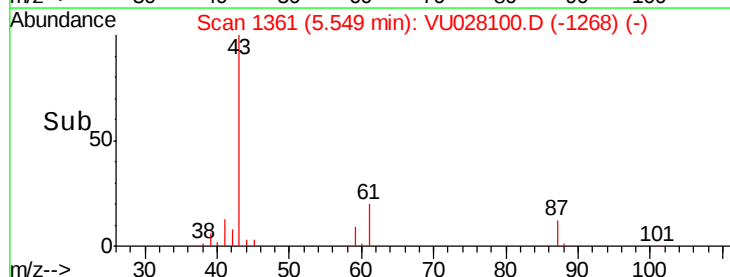
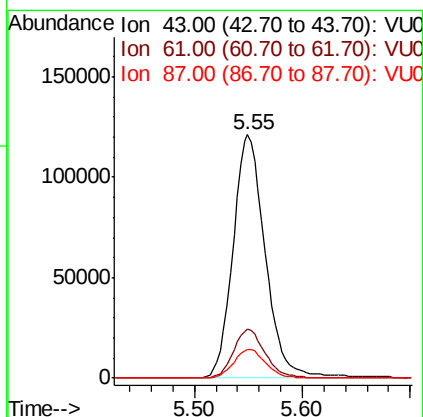
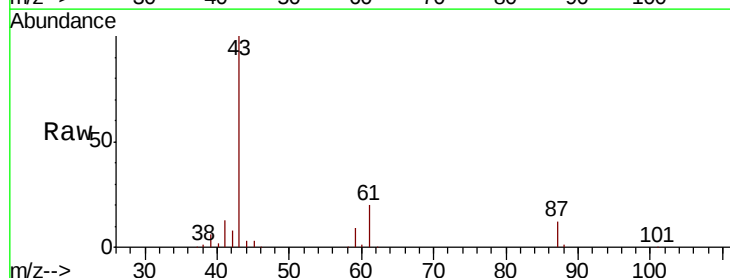
Instrument :
 MSVOA_U
 ClientSampleId :

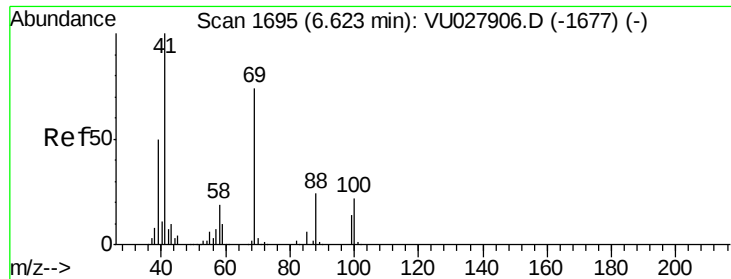
Tot Ion:117 Resp: 26719
 Ion Ratio Lower Upper
 117 100
 119 4.6 76.0 114.0#
 121 0.0 24.5 36.7#



#43
 Isopropyl Acetate
 Concen: 21.607 ug/l
 RT: 5.55 min Scan# 1361
 Delta R.T. -0.00 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Tgt Ion: 43 Resp: 250999
 Ion Ratio Lower Upper
 43 100
 61 19.9 15.0 22.4
 87 11.9 8.6 12.8

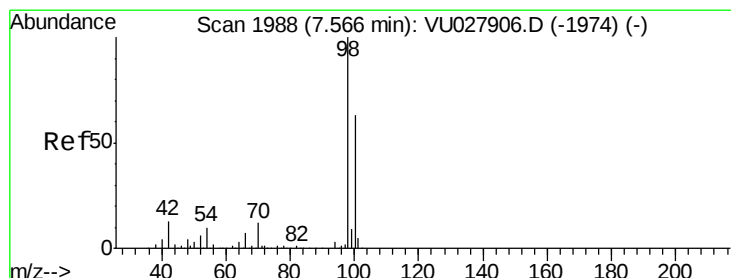
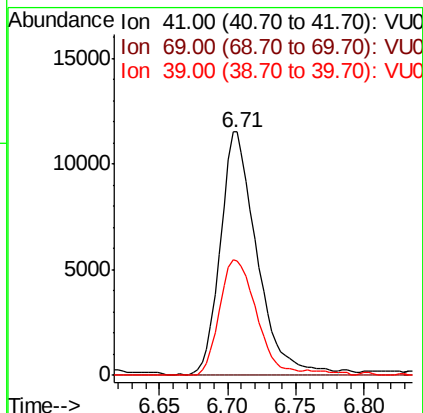
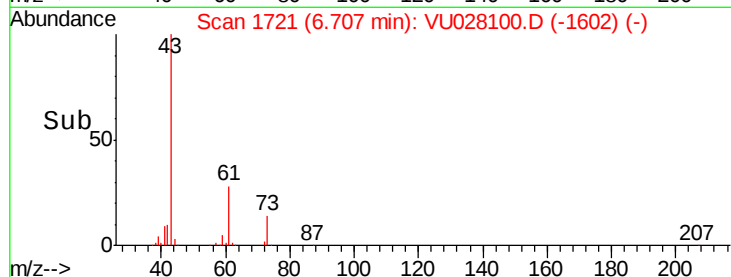
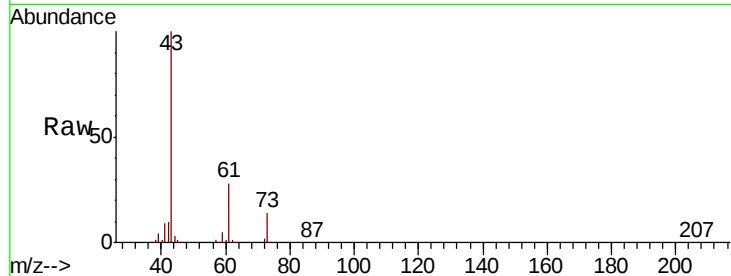




#48
Methvl methacrylate
Concen: 3.791 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.08 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

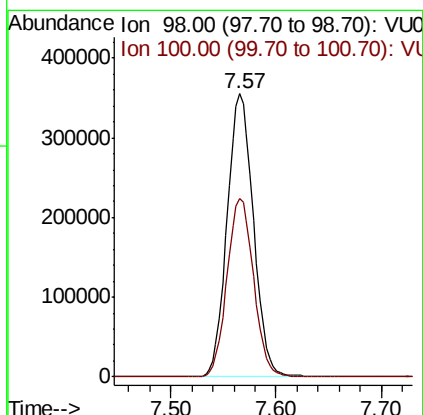
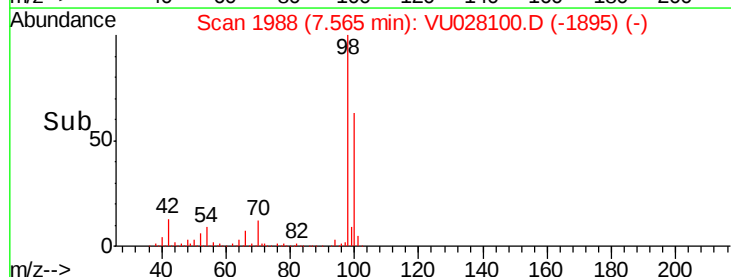
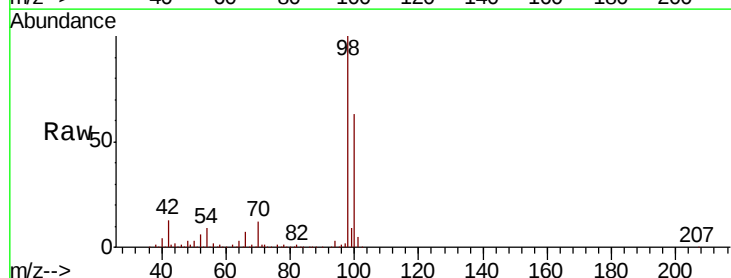
Instrument :
MSVOA_U
ClientSampled :

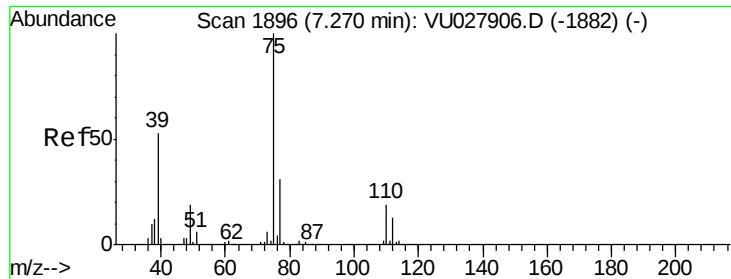
Tot Ion: 41 Resp: 21579
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 48.8 40.0 60.0



#50
Toluene-d8
Concen: 52.135 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Tgt Ion: 98 Resp: 613534
Ion Ratio Lower Upper
98 100
100 63.7 50.1 75.1



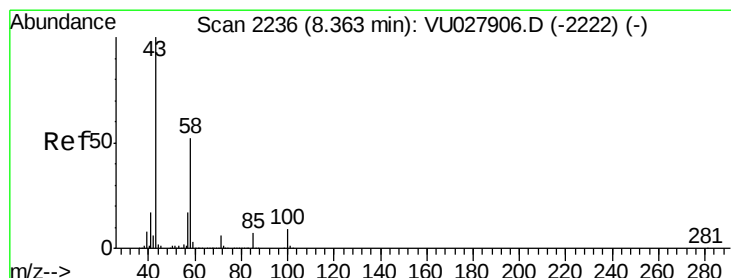
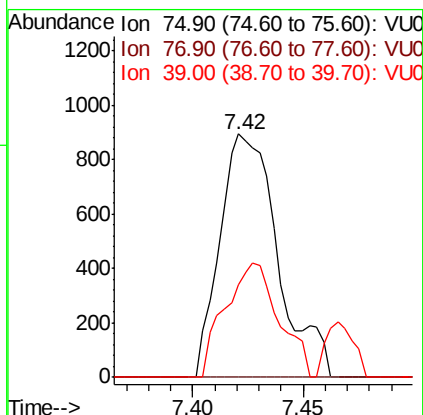
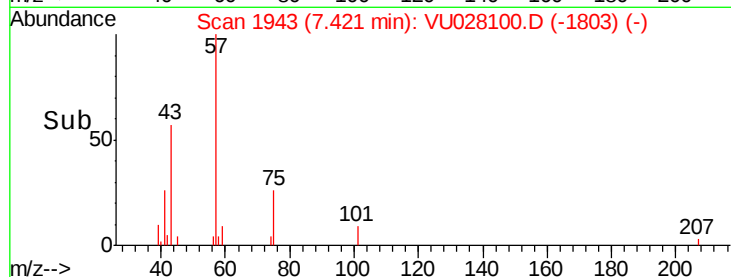
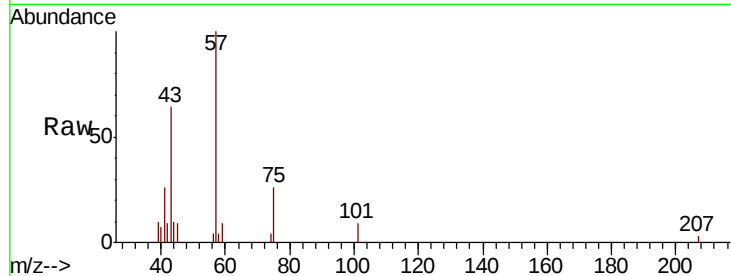


#54

cis-1,3-Dichloropropene
 Concen: 0.267 ug/l
 RT: 7.42 min Scan# 1943
 Delta R.T. 0.15 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Instrument :
 MSVOA_U
 ClientSampleId :

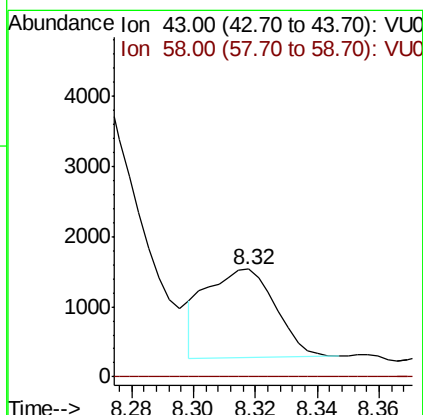
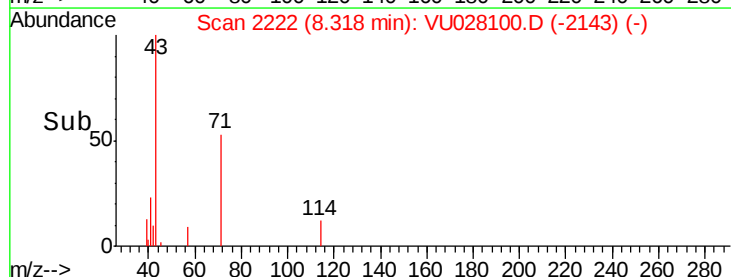
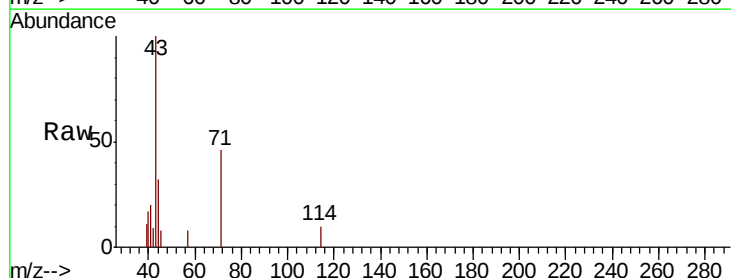
Tot Ion: 75 Resp: 1627
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 37.8 42.6 64.0#

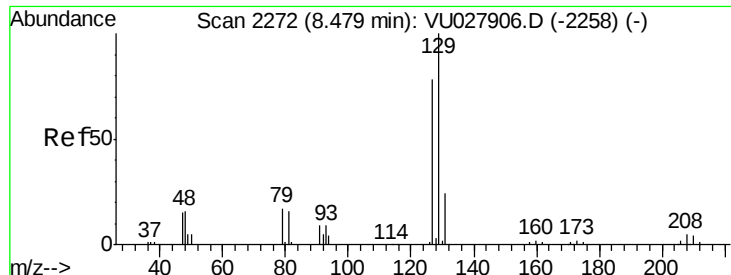


#59

2-Hexanone
 Concen: 0.328 ug/l
 RT: 8.32 min Scan# 2222
 Delta R.T. -0.05 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Tgt Ion: 43 Resp: 1966
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.8 77.3#

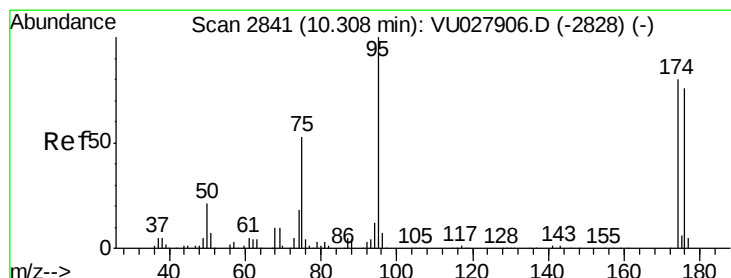
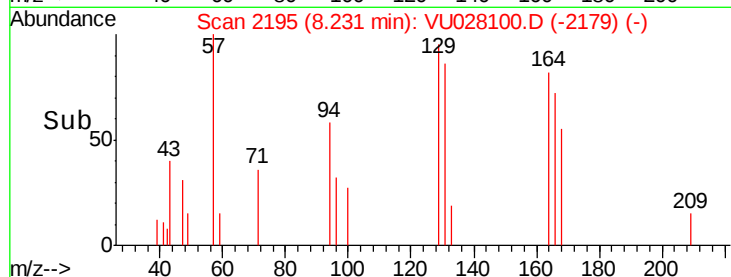
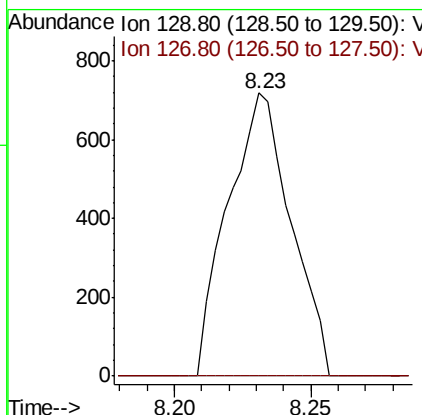
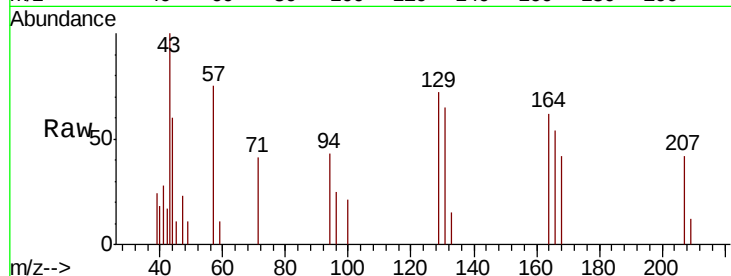




#60
Dibromochloromethane
Concen: 0.328 ug/l
RT: 8.23 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

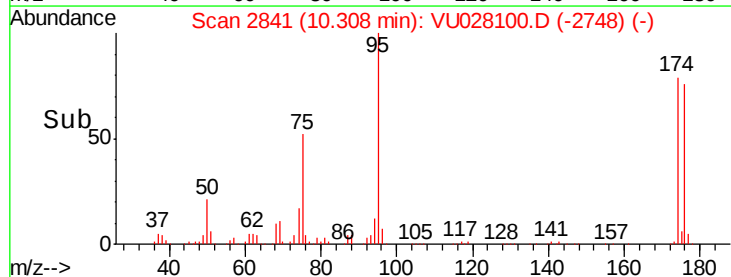
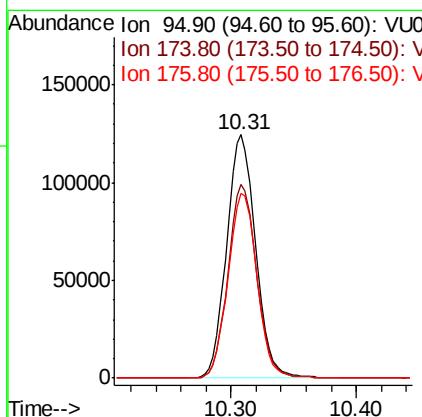
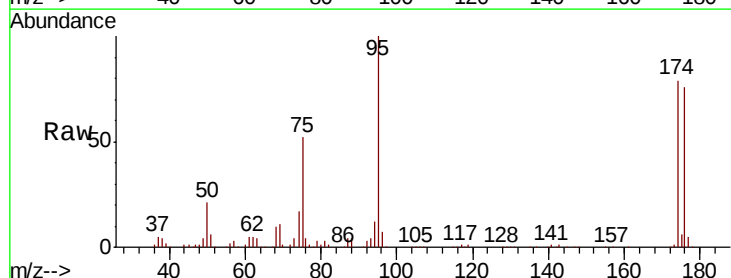
Instrument :
MSVOA_U
ClientSampled :

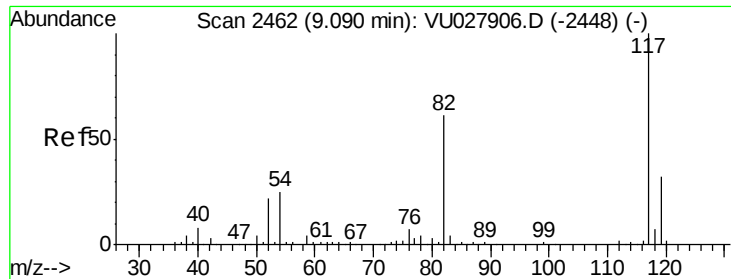
Tot Ion:129 Resp: 1148
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



#62
4-Bromofluorobenzene
Concen: 46.036 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Tgt Ion: 95 Resp: 199825
Ion Ratio Lower Upper
95 100
174 79.1 0.0 156.4
176 76.1 0.0 150.8

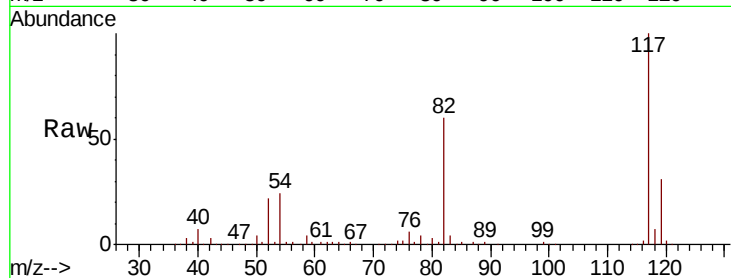




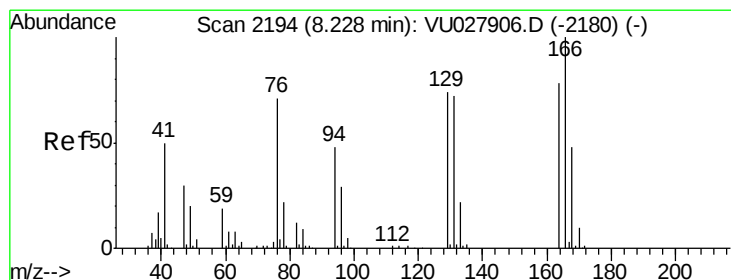
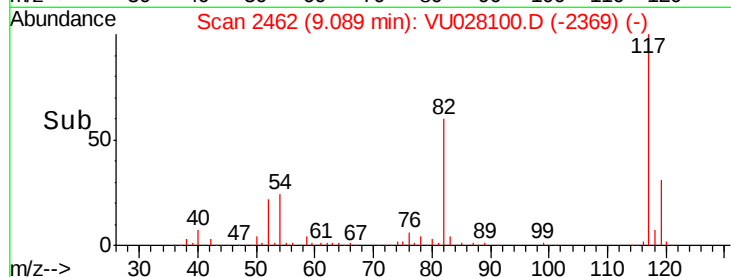
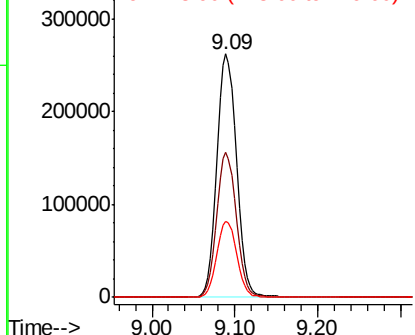
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 431481
Ion Ratio Lower Upper
117 100
82 59.8 48.6 73.0
119 31.3 25.8 38.8

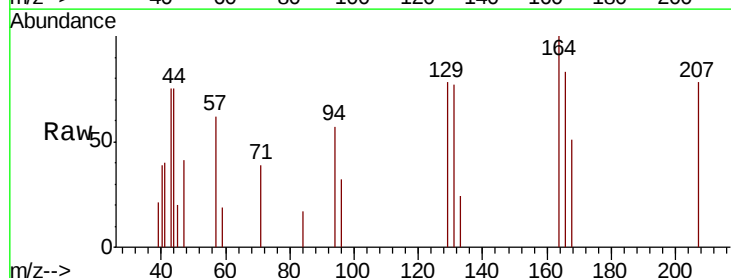


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU028100.D (-2369) (-)
Ion 118.90 (118.60 to 119.60): V

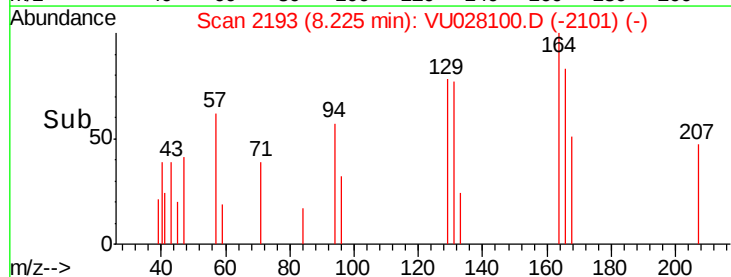
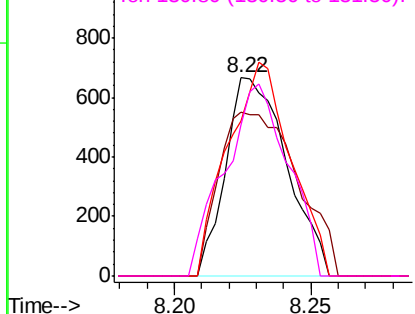


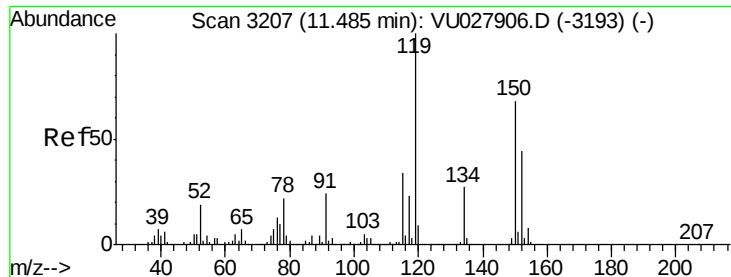
#64
Tetrachloroethene
Concen: 0.371 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Tgt Ion:164 Resp: 1038
Ion Ratio Lower Upper
164 100
166 82.7 102.1 153.1#
129 78.3 75.9 113.9
131 76.5 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: VU028100.D

Acq: 13 Nov 2018 18:30

Instrument :

MSVOA_U

ClientSampled :

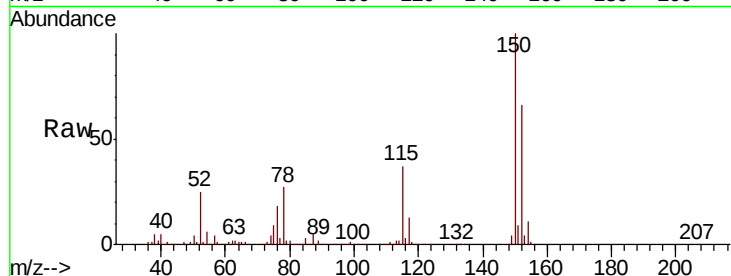
Tot Ion:152 Resp: 172908

Ion Ratio Lower Upper

152 100

115 58.6 43.0 129.0

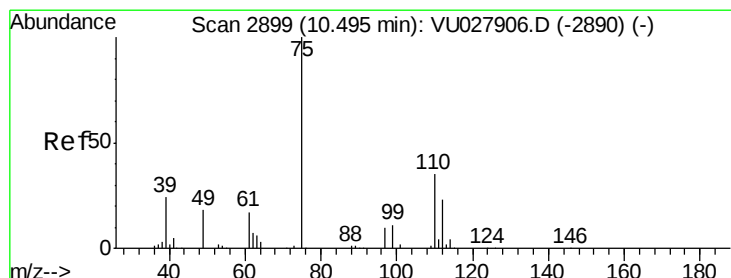
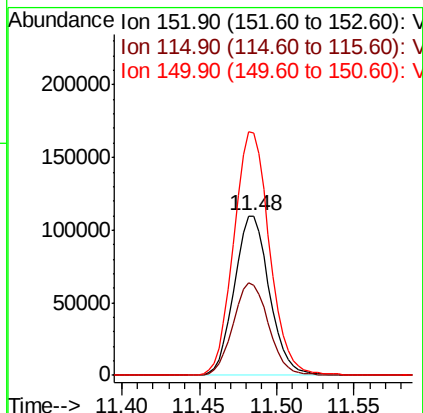
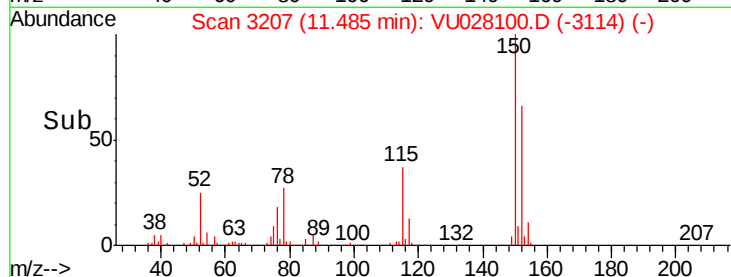
150 156.0 0.0 349.4



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: 21.483 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028100.D

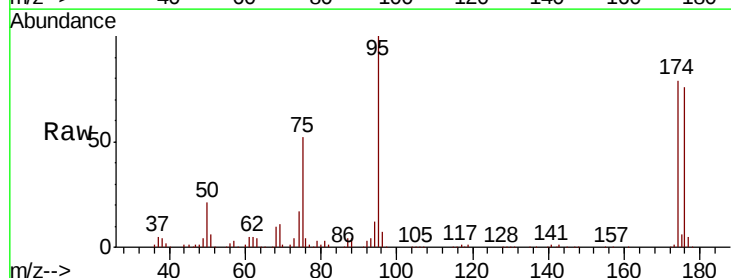
Acq: 13 Nov 2018 18:30

Tgt Ion: 75 Resp: 101604

Ion Ratio Lower Upper

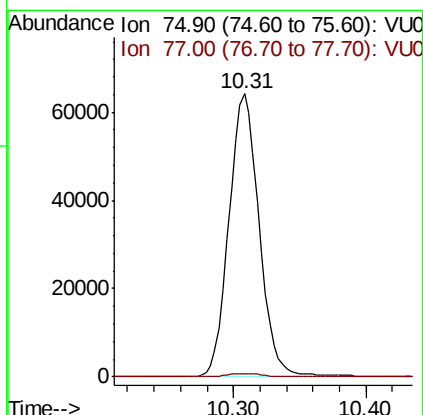
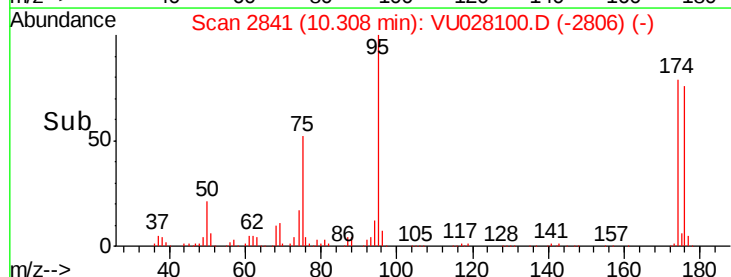
75 100

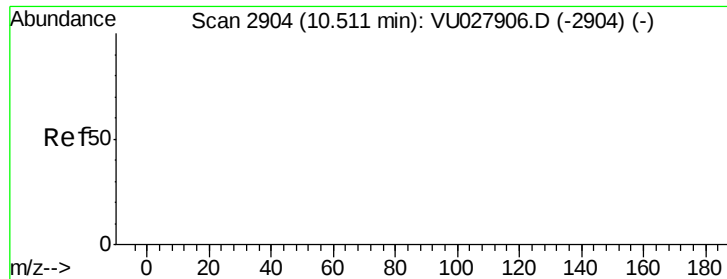
77 1.3 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

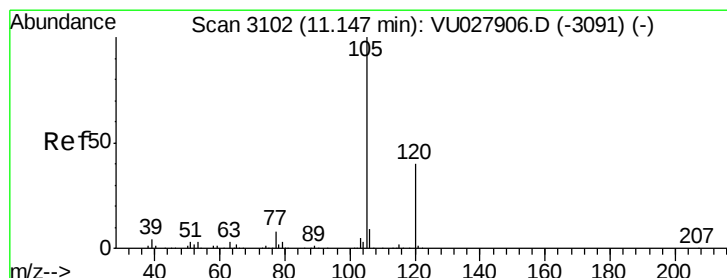
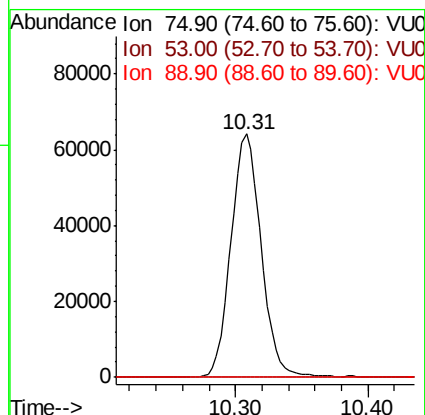
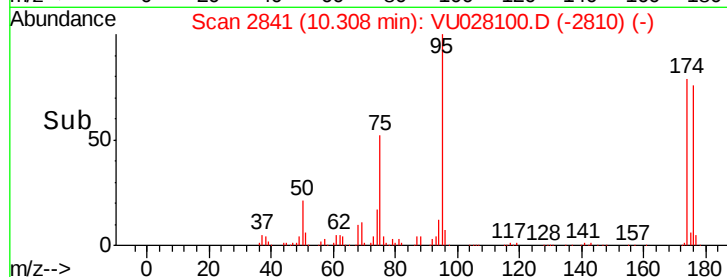
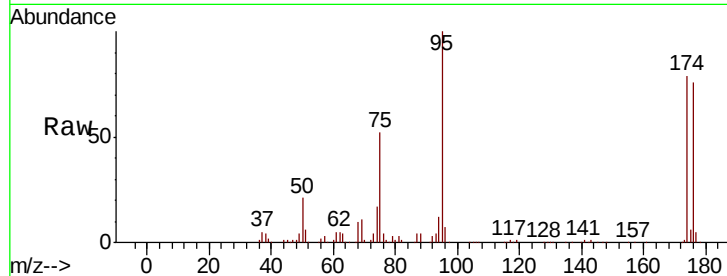




#81
trans-1,4-Dichloro-2-butene
Concen: 53.619 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

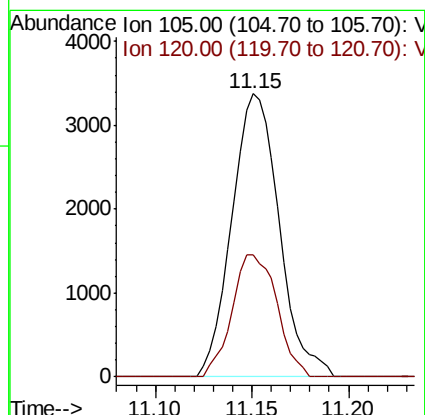
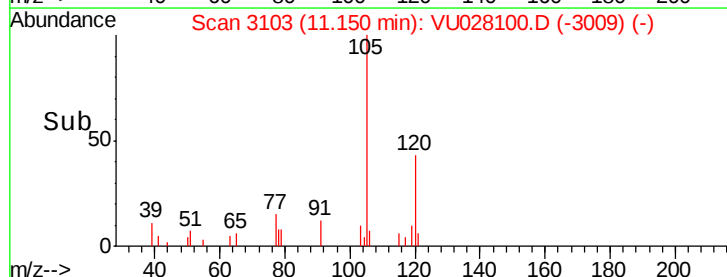
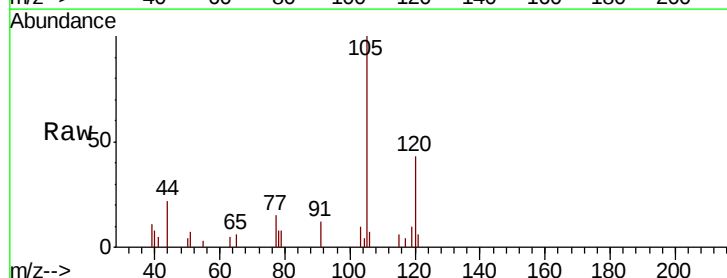
Instrument :
MSVOA_U
ClientSampleId :

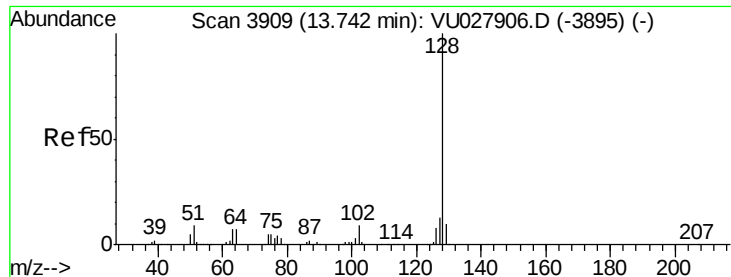
Tot Ion: 75 Resp: 101604
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#84
1,2,4-Trimethylbenzene
Concen: 0.514 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. 0.00 min
Lab File: VU028100.D
Acq: 13 Nov 2018 18:30

Tgt Ion: 105 Resp: 5744
Ion Ratio Lower Upper
105 100
120 40.8 22.1 66.1

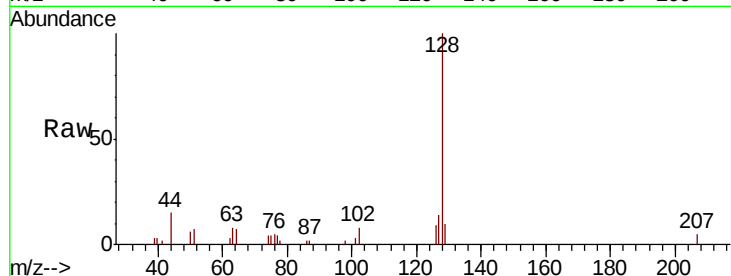




#95
 Naphthalene
 Concen: 0.958 ug/l
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU028100.D
 Acq: 13 Nov 2018 18:30

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.4	15.6
129	9.4	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

