

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029092.D
 Acq On : 09 Jan 2019 16:13
 Operator : MD/SY
 Sample : PB116248ZHE#07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:06:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

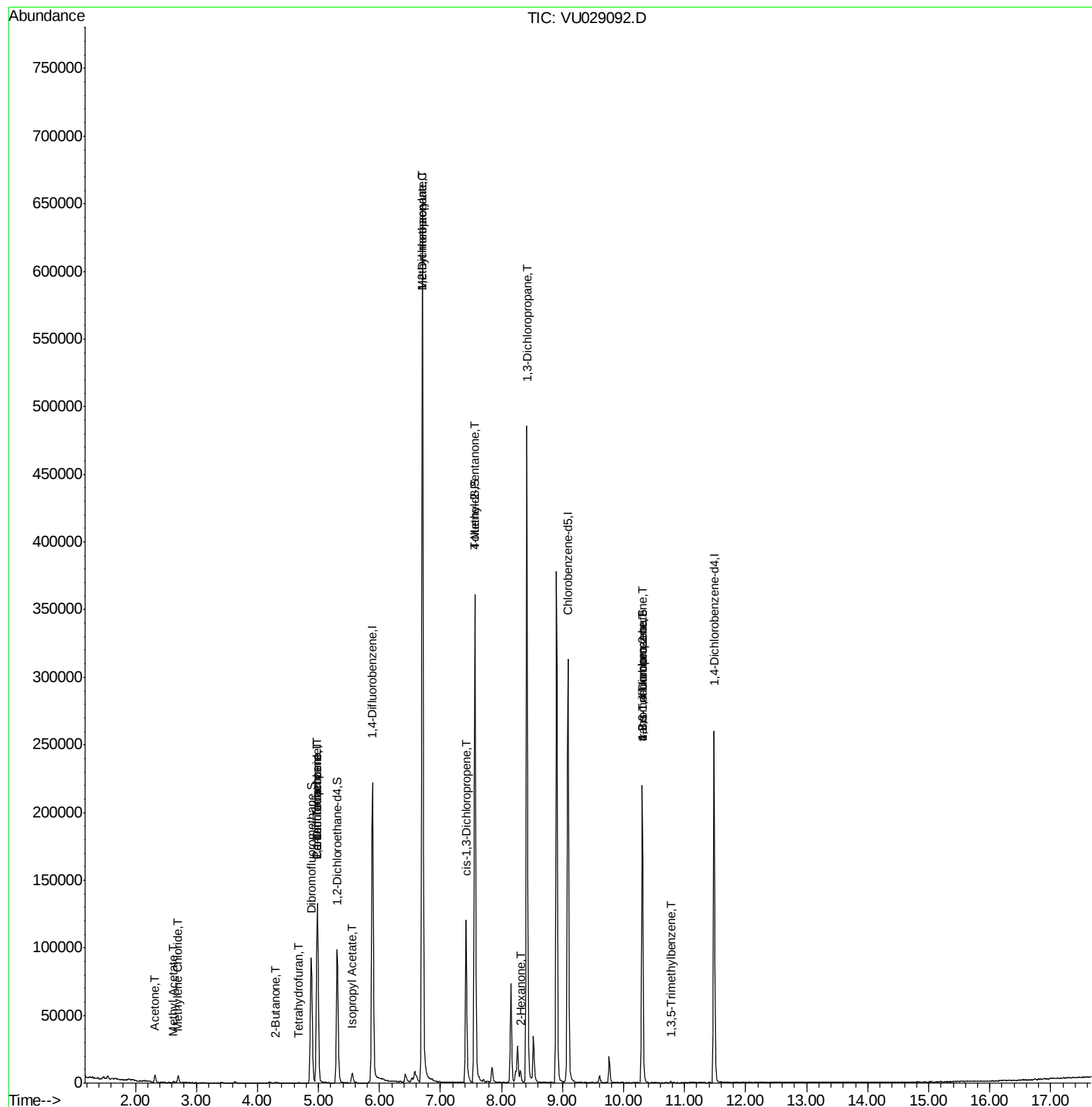
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	107869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	190710	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	180931	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69711	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	74849	56.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.26%	
35) Dibromofluoromethane	4.88	113	64954	52.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.08%	
50) Toluene-d8	7.57	98	247594	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
62) 4-Bromofluorobenzene	10.30	95	76193	43.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.88%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	696	Below Cal		93
5) Bromomethane	1.63	94	45	Below Cal	#	2
16) Acetone	2.32	43	5618	6.688	ug/l	93
18) Methyl Acetate	2.62	43	1843	0.944	ug/l #	80
20) Methylene Chloride	2.70	84	2342	1.642	ug/l	89
25) 2-Butanone	4.30	43	337	0.297	ug/l #	47
29) Tetrahydrofuran	4.67	42	243	0.353	ug/l #	30
31) Cyclohexane	4.98	56	1743	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7835	4.110	ug/l #	43
38) Carbon Tetrachloride	4.98	117	9845	6.192	ug/l #	17
43) Isopropyl Acetate	5.55	43	9011	2.807	ug/l	94
45) 1,2-Dichloropropane	6.70	63	713	0.454	ug/l #	43
48) Methyl methacrylate	6.70	41	54945	35.156	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4228	1.936	ug/l	92
54) cis-1,3-Dichloropropene	7.42	75	22426	9.348	ug/l #	60
57) 1,3-Dichloropropane	8.41	76	5057	2.038	ug/l #	42
59) 2-Hexanone	8.31	43	7828	4.565	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	35090	20.544	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	924	0.214	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.30	75	35090	52.984	ug/l #	100

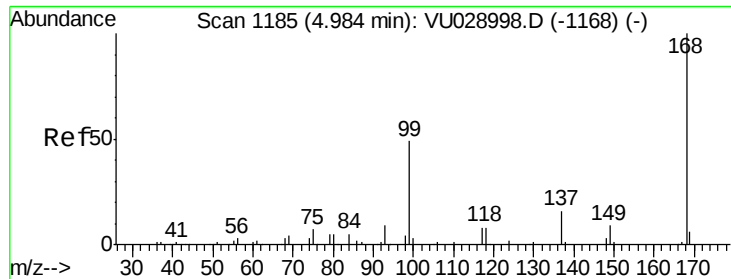
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

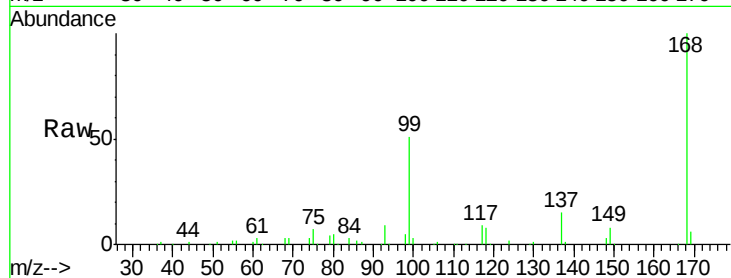
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 107869

Ion Ratio Lower Upper

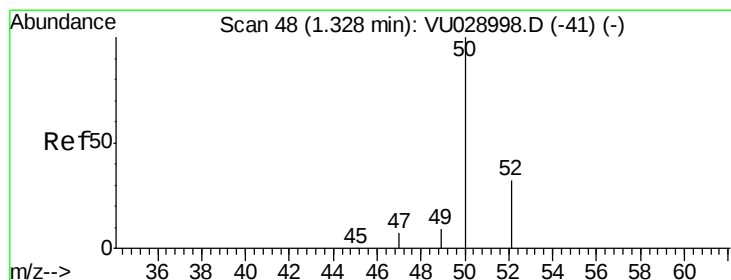
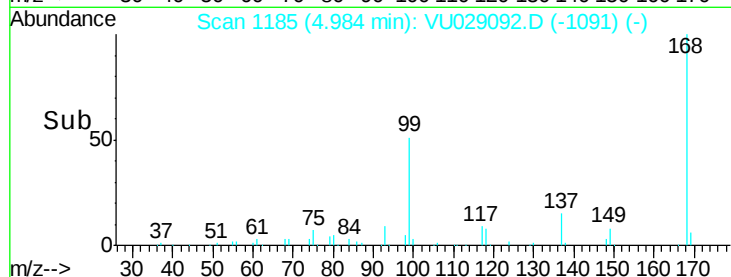
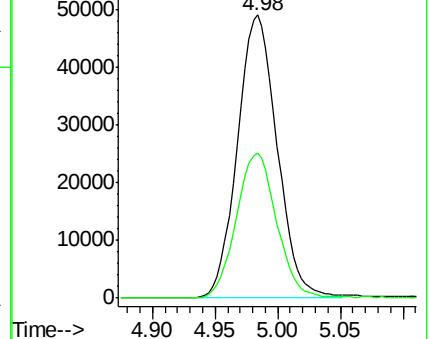
168 100

99 51.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029092.D

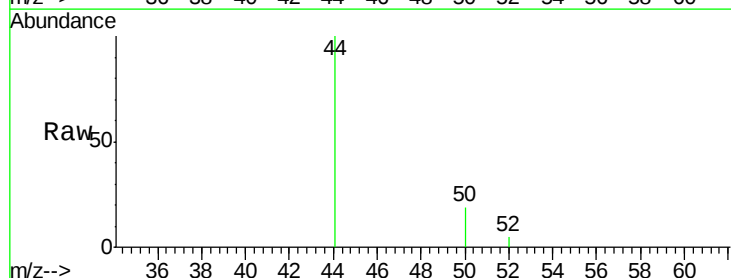
Acq: 09 Jan 2019 16:13

Tgt Ion: 50 Resp: 696

Ion Ratio Lower Upper

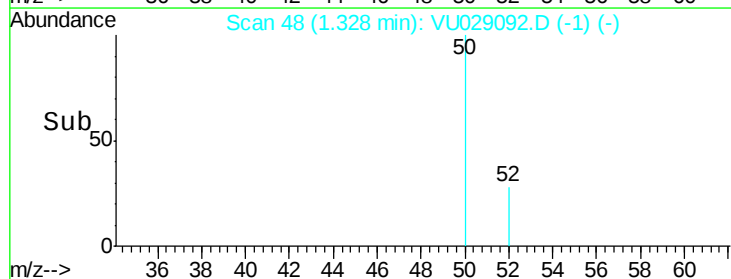
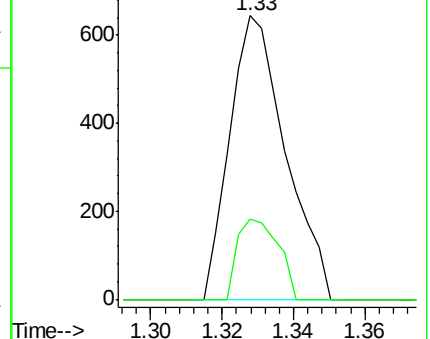
50 100

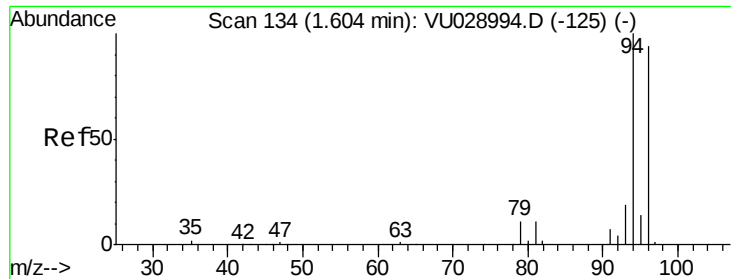
52 28.4 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 141

Delta R.T. 0.02 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

Instrument :

MSVOA_U

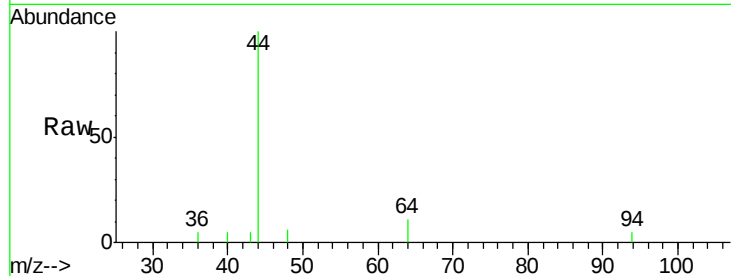
ClientSampleId :

Tot Ion: 94 Resp: 45

Ion Ratio Lower Upper

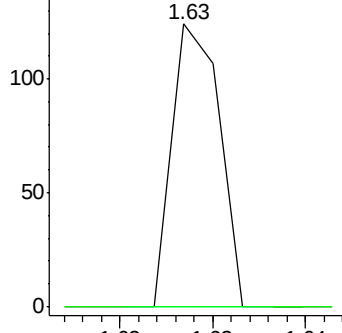
94 100

96 0.0 75.5 113.3#

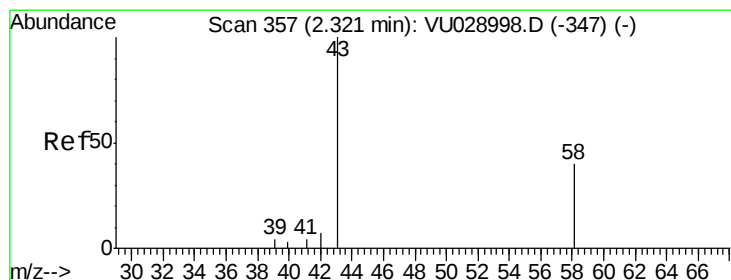
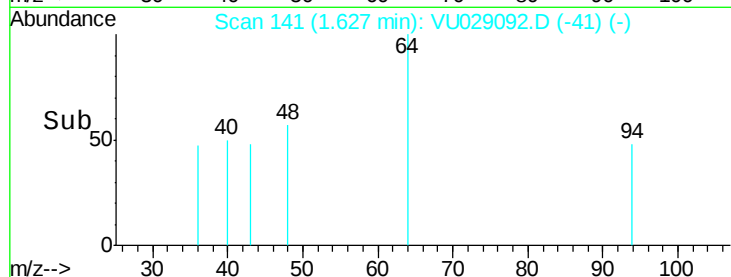


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#16

Acetone

Concen: 6.688 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029092.D

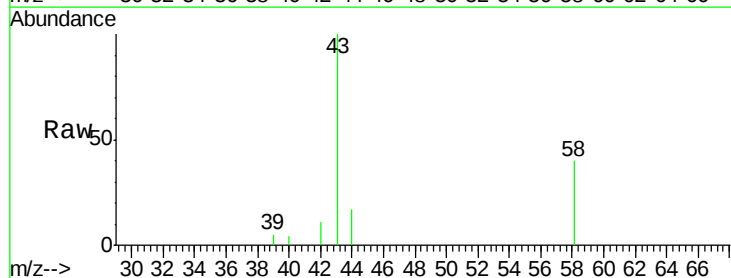
Acq: 09 Jan 2019 16:13

Tgt Ion: 43 Resp: 5618

Ion Ratio Lower Upper

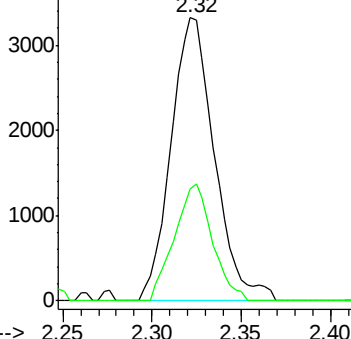
43 100

58 39.5 28.6 42.8

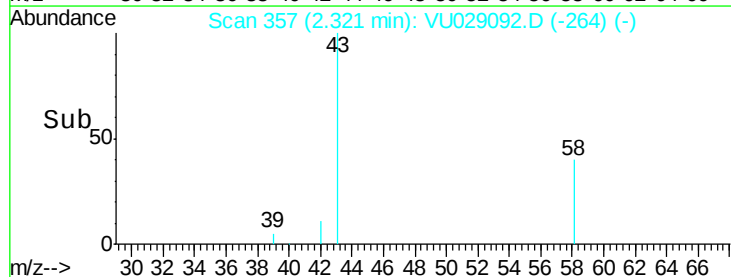


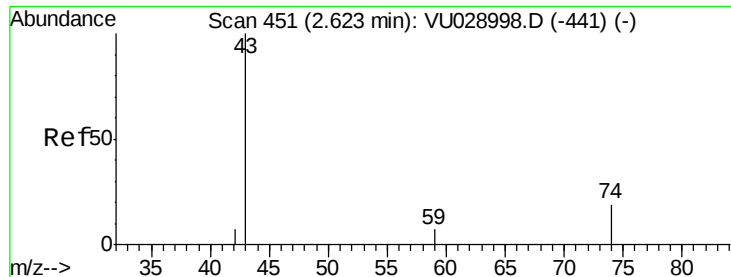
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->

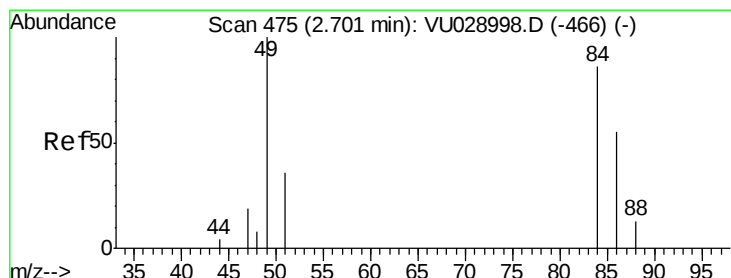
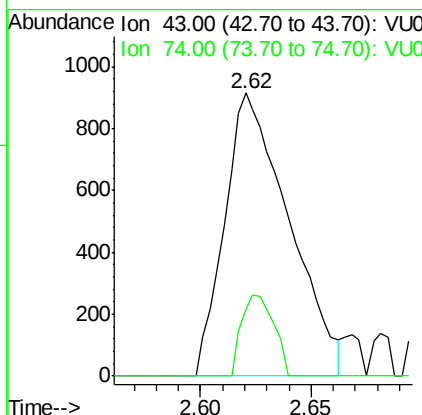
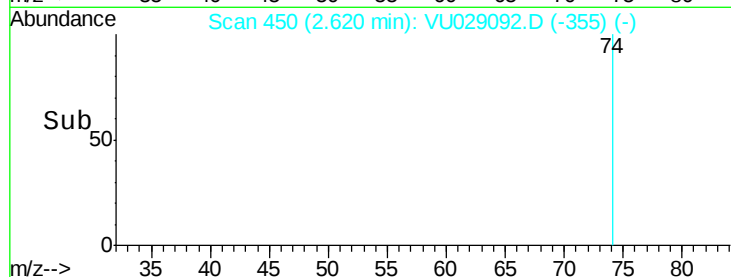
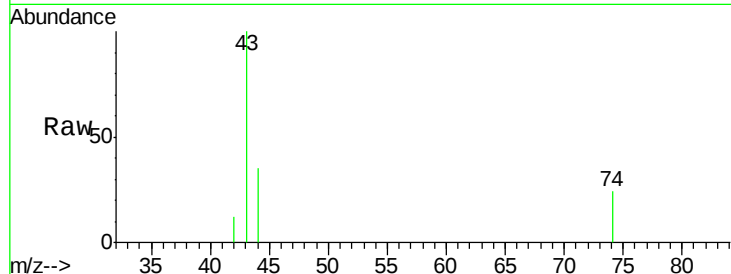




#18
Methyl Acetate
Concen: 0.944 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029092.D
Acq: 09 Jan 2019 16:13

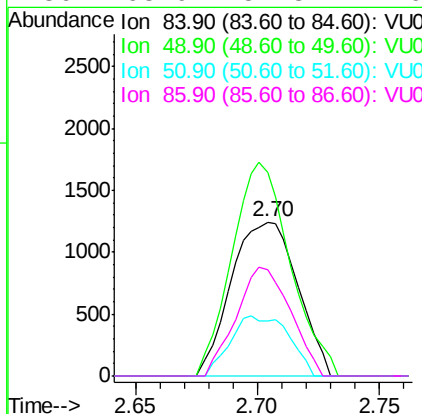
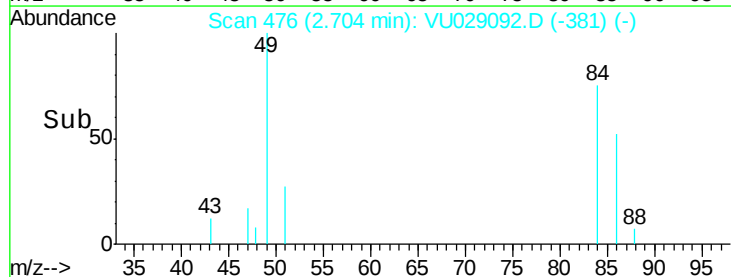
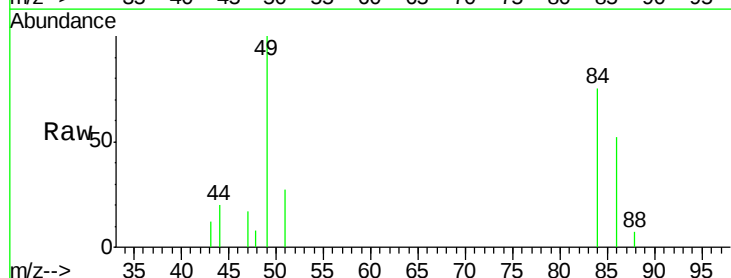
Instrument :
MSVOA_U
ClientSampled :

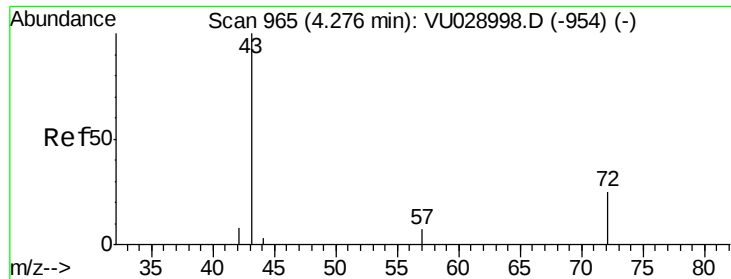
Tot Ion: 43 Resp: 1843
Ion Ratio Lower Upper
43 100
74 14.5 19.5 29.3#



#20
Methylene Chloride
Concen: 1.642 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029092.D
Acq: 09 Jan 2019 16:13

Tgt Ion: 84 Resp: 2342
Ion Ratio Lower Upper
84 100
49 132.8 91.9 137.9
51 35.8 29.2 43.8
86 68.9 51.8 77.6





#25

2-Butanone

Concen: 0.297 ug/l

RT: 4.30 min Scan# 971

Delta R.T. 0.04 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

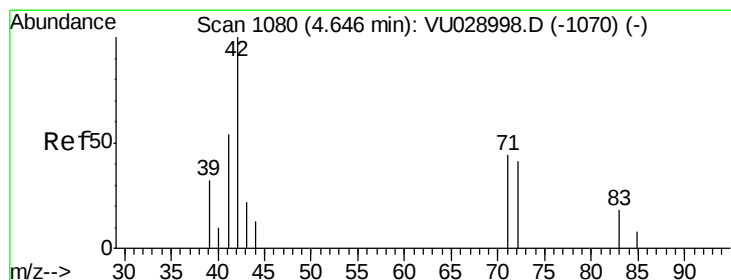
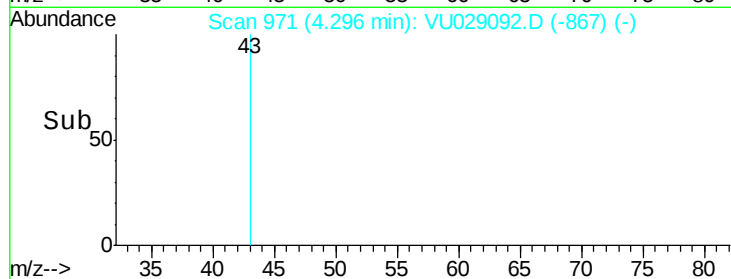
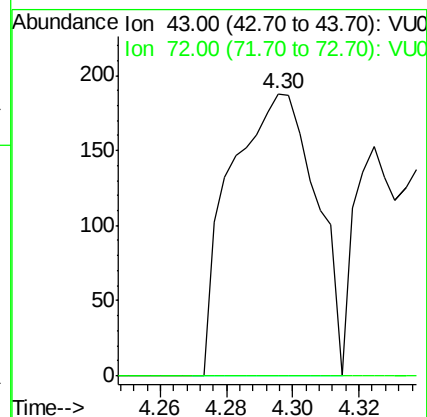
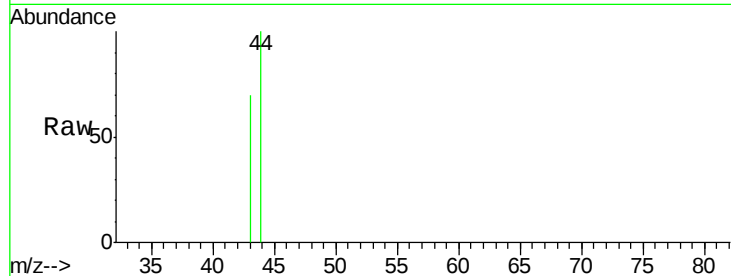
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 337

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



#29

Tetrahydrofuran

Concen: 0.353 ug/l

RT: 4.67 min Scan# 1088

Delta R.T. 0.04 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

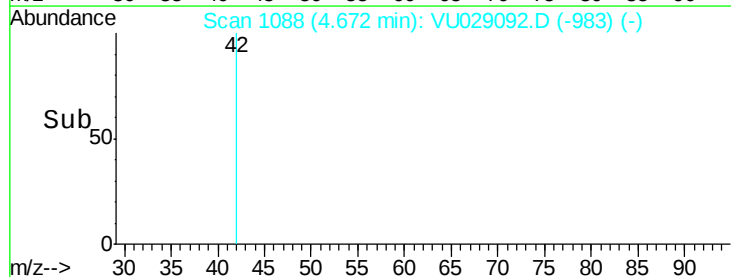
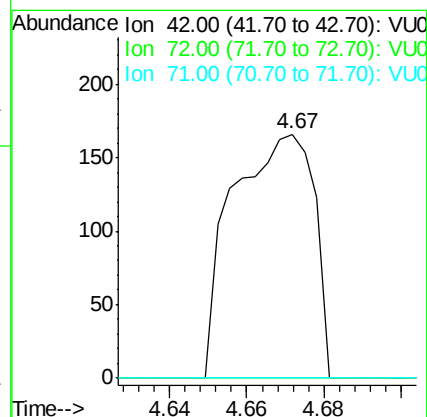
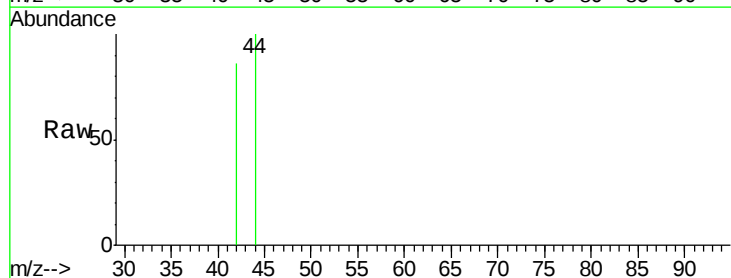
Tgt Ion: 42 Resp: 243

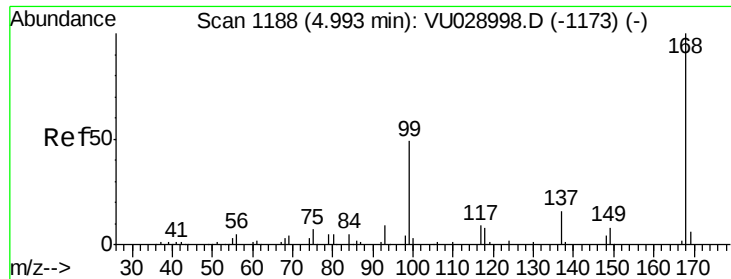
Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 0.0 36.1 54.1#

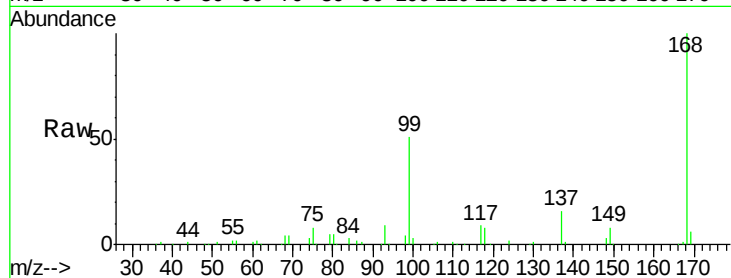




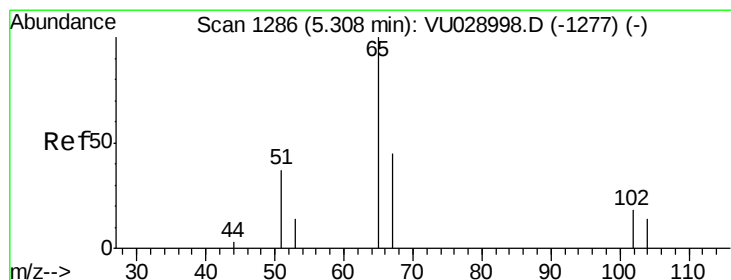
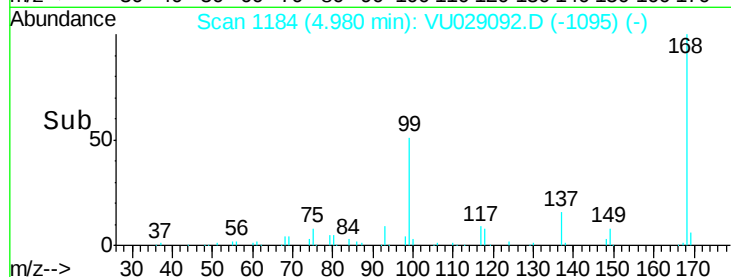
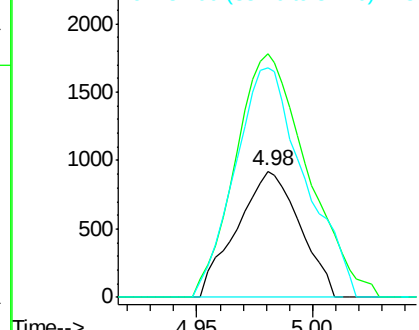
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU029092.D
Acq: 09 Jan 2019 16:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 1743
Ion Ratio Lower Upper
56 100
69 193.3 26.7 40.1#
84 182.5 65.7 98.5#

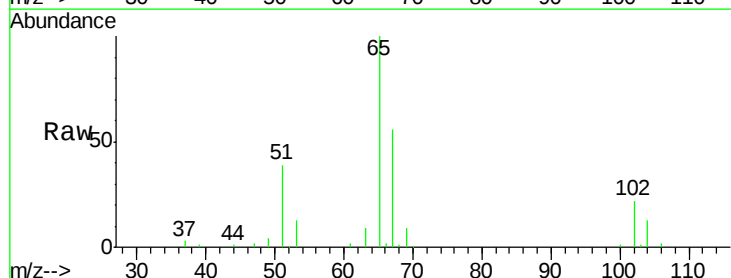


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

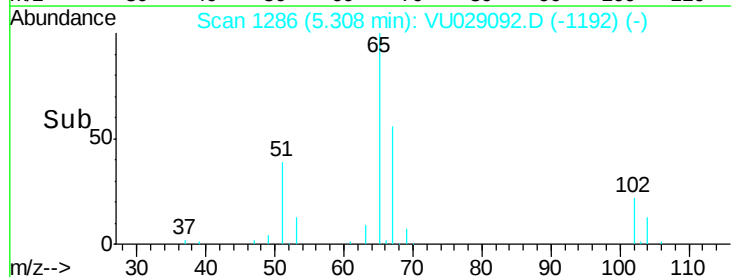
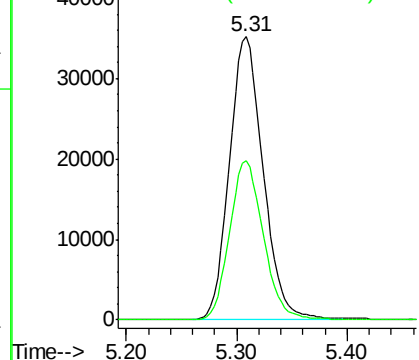


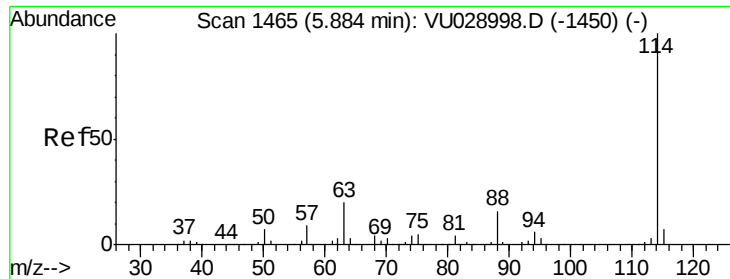
#33
1,2-Dichloroethane-d4
Concen: 56.131 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU029092.D
Acq: 09 Jan 2019 16:13

Tgt Ion: 65 Resp: 74849
Ion Ratio Lower Upper
65 100
67 56.1 0.0 111.0



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

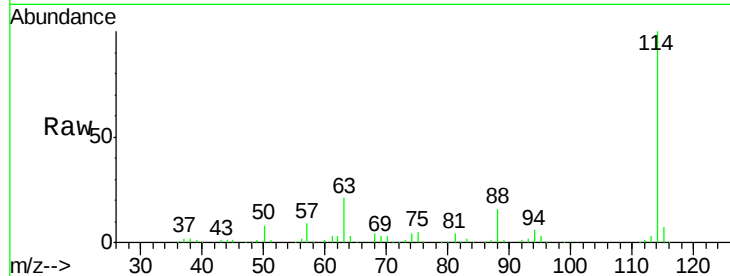




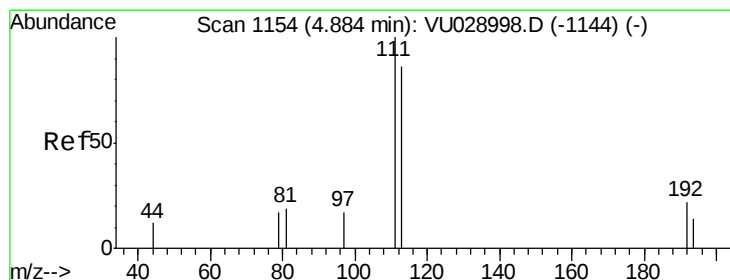
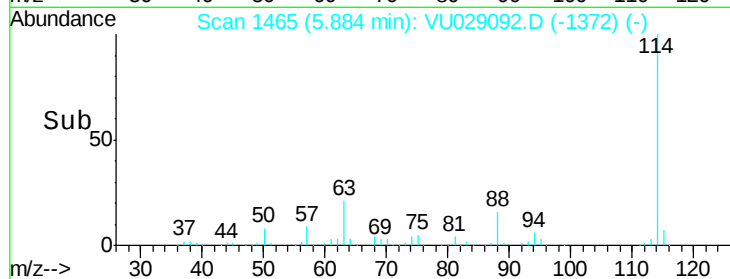
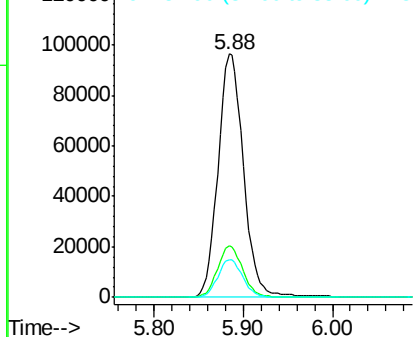
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029092.D
 Acq: 09 Jan 2019 16:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 190710
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.2
 88 15.7 0.0 30.4

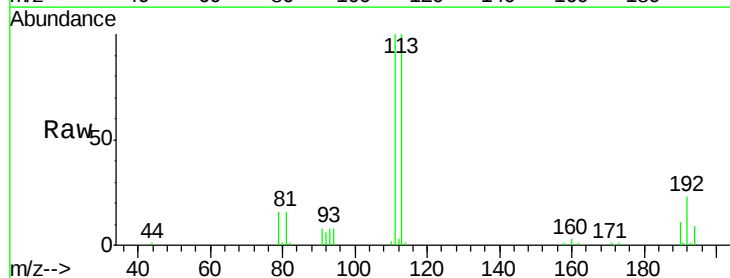


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

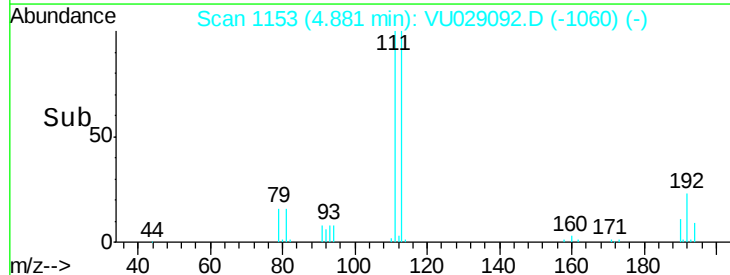
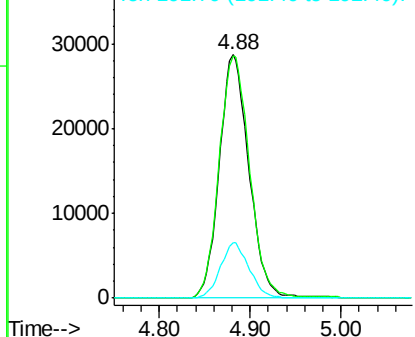


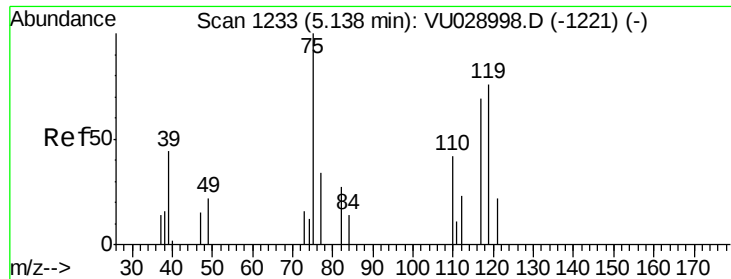
#35
 Dibromofluoromethane
 Concen: 52.542 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029092.D
 Acq: 09 Jan 2019 16:13

Tgt Ion:113 Resp: 64954
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.4 122.2
 192 21.9 16.8 25.2



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

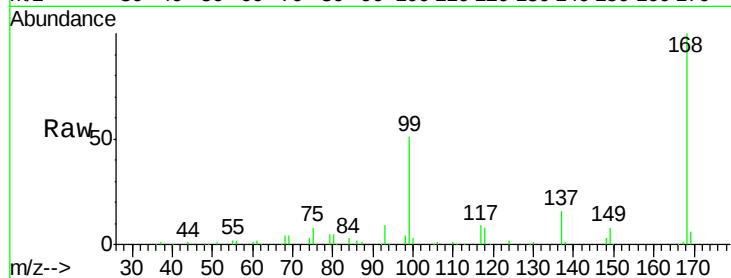




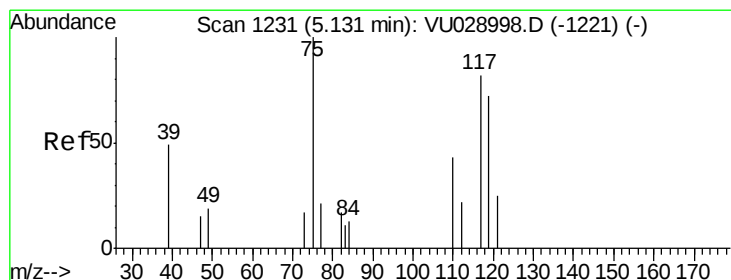
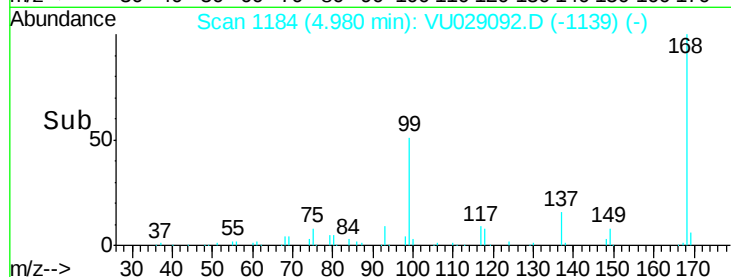
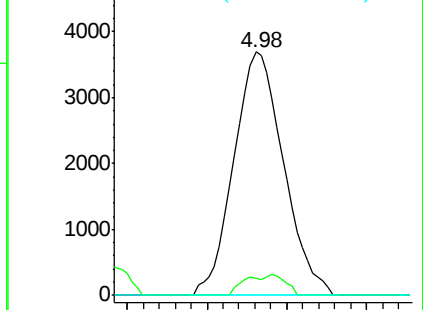
#36
 1,1-Dichloropropene
 Concen: 4.110 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029092.D
 Acq: 09 Jan 2019 16:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	75	Resp	7835
Ion Ratio	100	Lower	Upper
75	100		
110	3.2	18.4	55.4#
77	0.0	25.1	37.7#

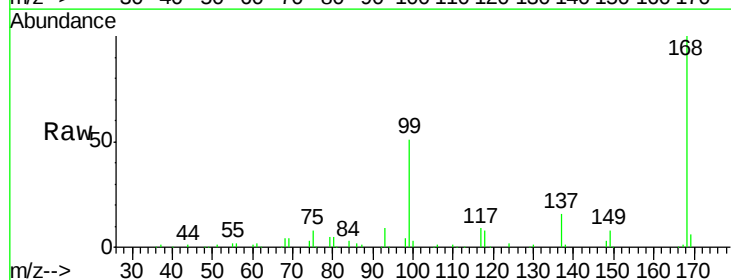


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

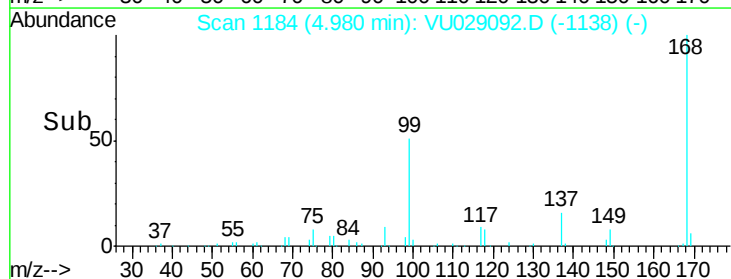
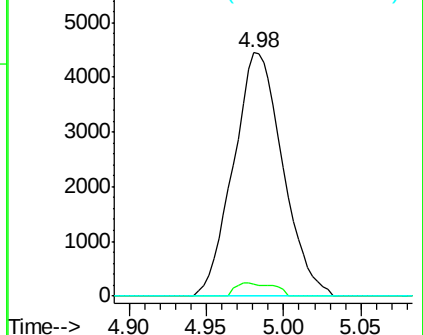


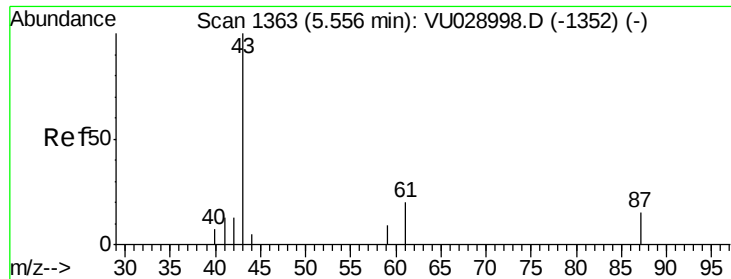
#38
 Carbon Tetrachloride
 Concen: 6.192 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029092.D
 Acq: 09 Jan 2019 16:13

Tgt Ion	117	Resp	9845
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.0	74.6	111.8#
121	0.0	25.0	37.6#



Abundance Ion 116.80 (116.50 to 117.50): VU028998.D (-1221) (-)
 Ion 118.80 (118.50 to 119.50): VU028998.D (-1221) (-)
 Ion 120.80 (120.50 to 121.50): VU028998.D (-1221) (-)





#43

Isopropyl Acetate

Concen: 2.807 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

Instrument :

MSVOA_U

ClientSampleId :

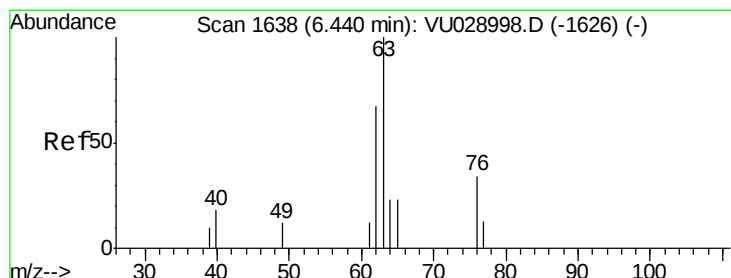
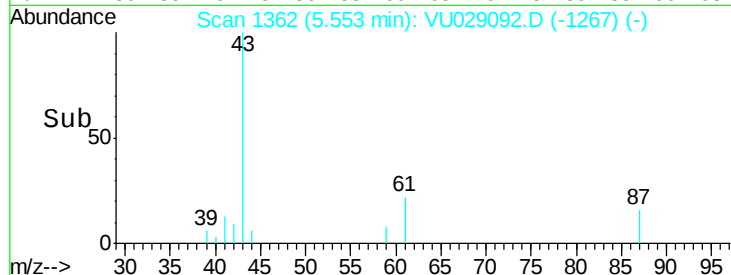
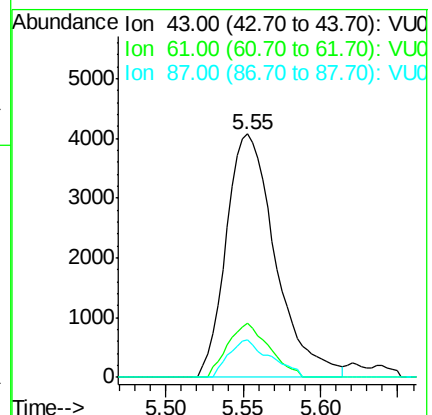
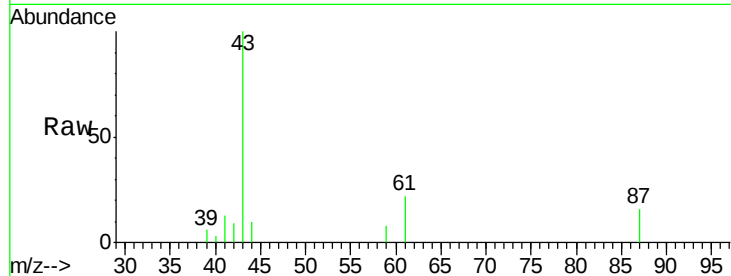
Tot Ion: 43 Resp: 9011

Ion Ratio Lower Upper

43 100

61 18.6 17.8 26.6

87 13.0 11.3 16.9



#45

1,2-Dichloropropane

Concen: 0.454 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029092.D

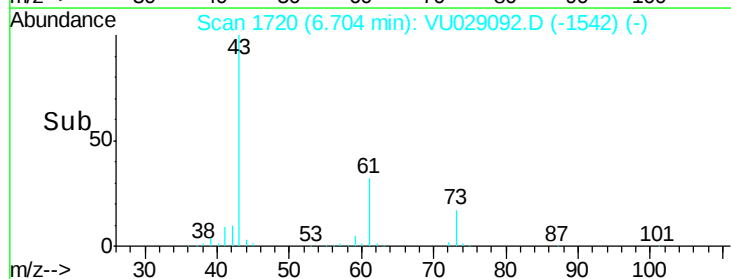
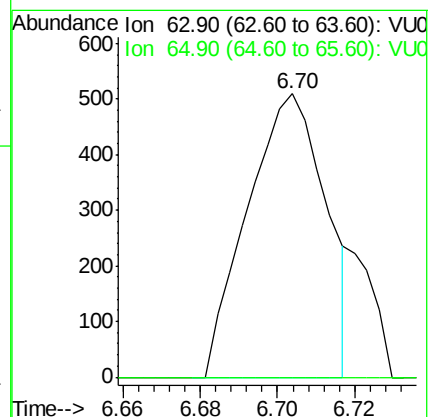
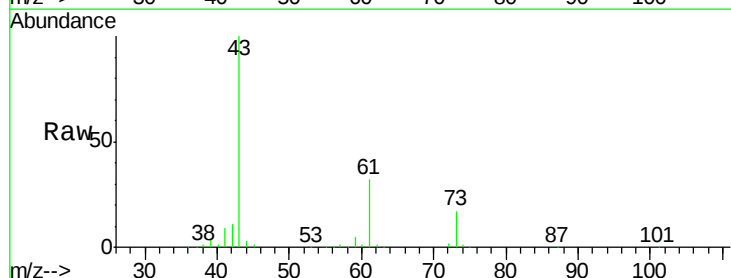
Acq: 09 Jan 2019 16:13

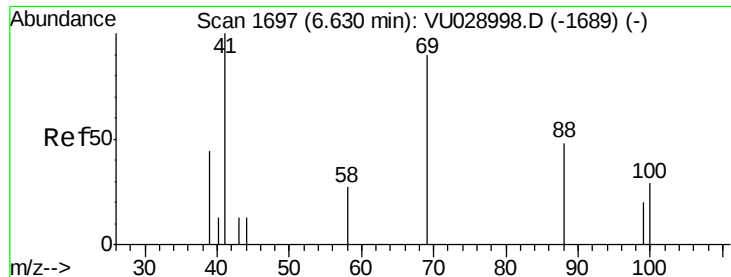
Tgt Ion: 63 Resp: 713

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#





#48

Methvl methacrylate

Concen: 35.156 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

Instrument :
MSVOA_U
ClientSampleId :

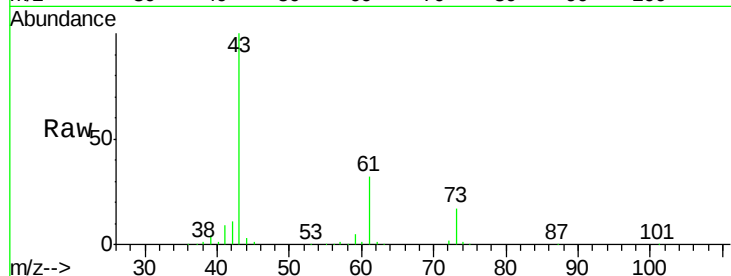
Tot Ion: 41 Resp: 54945

Ion Ratio Lower Upper

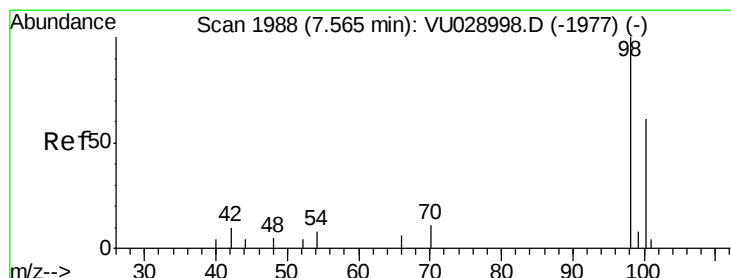
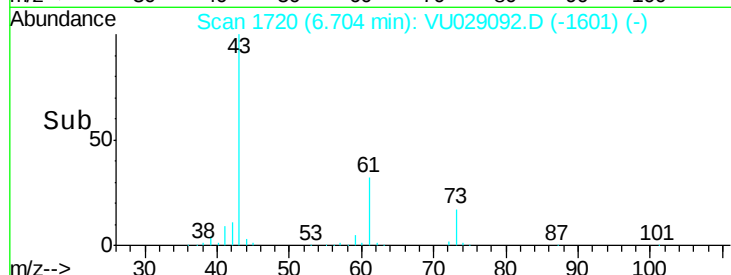
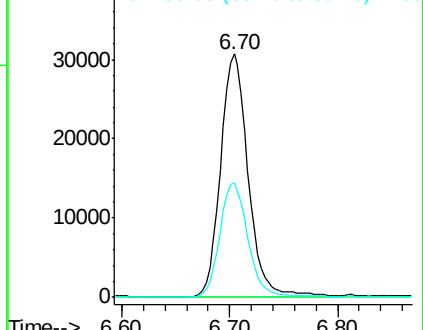
41 100

69 0.0 73.6 110.4#

39 47.6 39.6 59.4



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: 50.731 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU029092.D

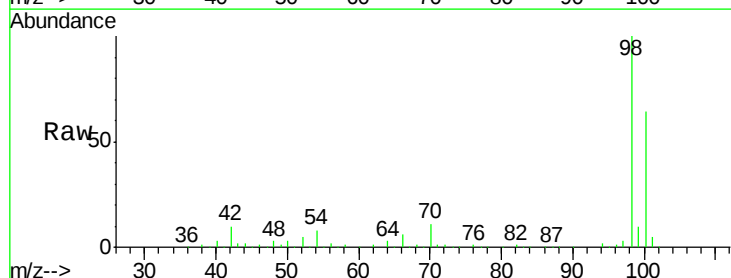
Acq: 09 Jan 2019 16:13

Tgt Ion: 98 Resp: 247594

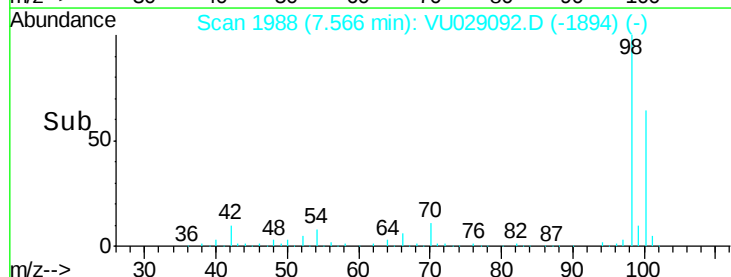
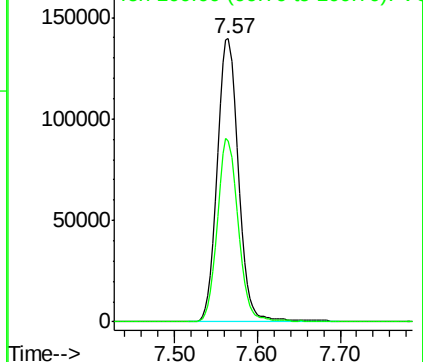
Ion Ratio Lower Upper

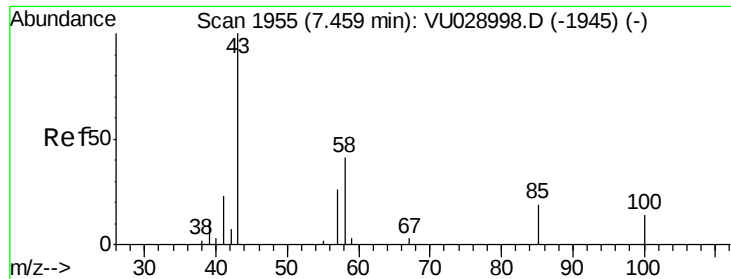
98 100

100 63.3 51.6 77.4



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





#51

4-Methyl-2-Pentanone

Concen: 1.936 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

Instrument :

MSVOA_U

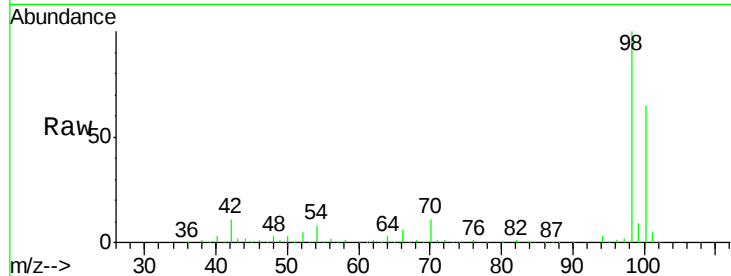
ClientSampled :

Tot Ion: 43 Resp: 4228

Ion Ratio Lower Upper

43 100

58 47.3 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.56

2500

2000

1500

1000

500

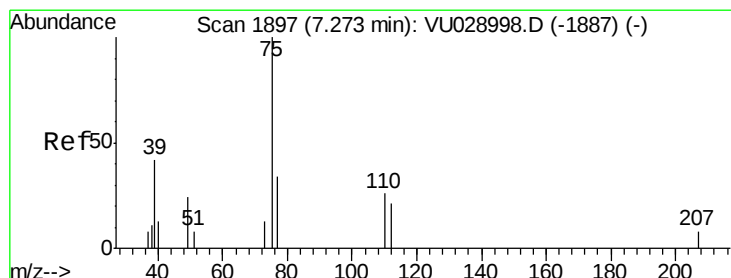
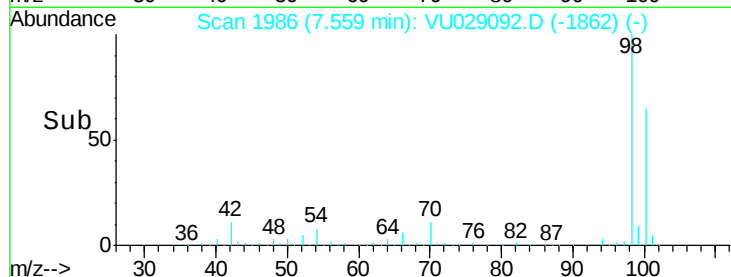
0

7.50

7.55

7.60

Time-->



#54

cis-1,3-Dichloropropene

Concen: 9.348 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

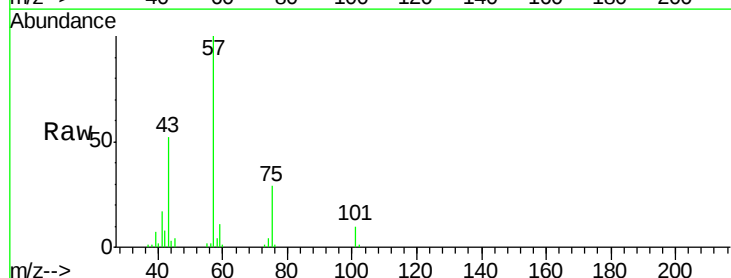
Tgt Ion: 75 Resp: 22426

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 23.4 32.2 48.4#



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

7.42

15000

10000

5000

0

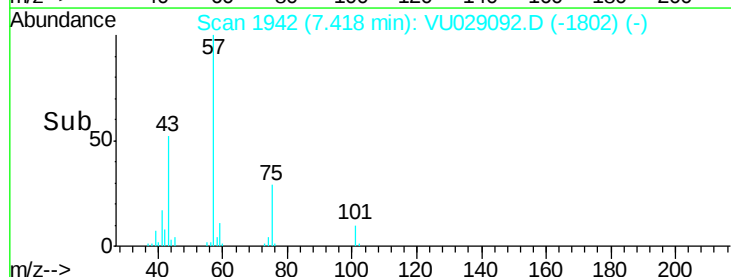
7.35

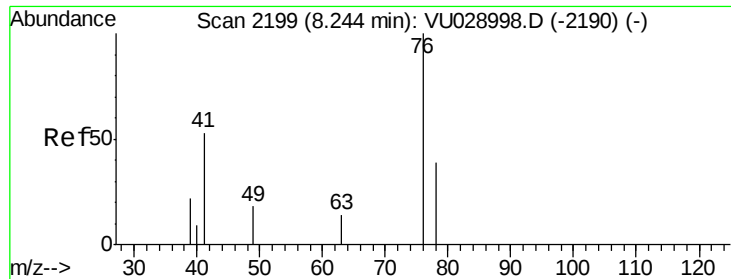
7.40

7.45

7.50

Time-->

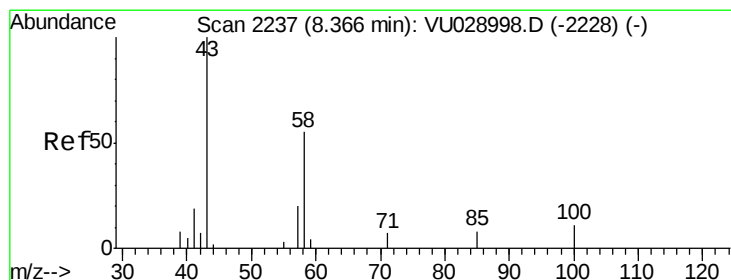
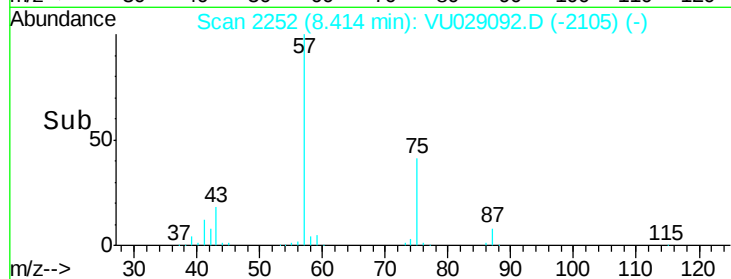
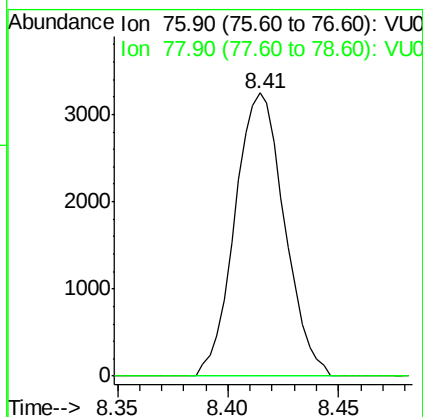
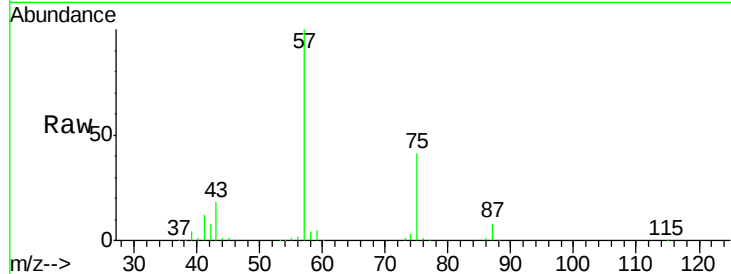




#57
 1,3-Dichloropropane
 Concen: 2.038 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029092.D
 Acq: 09 Jan 2019 16:13

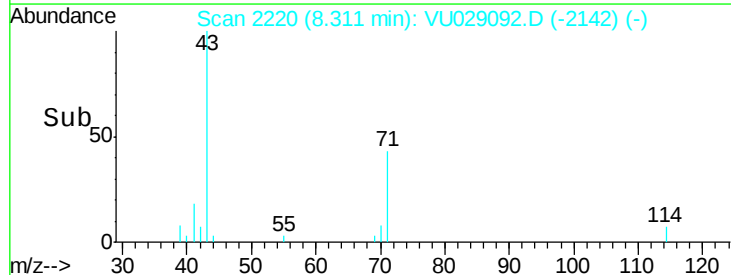
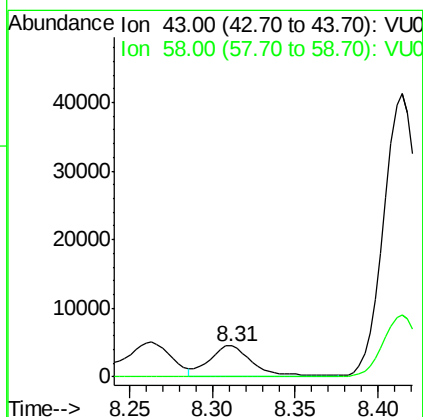
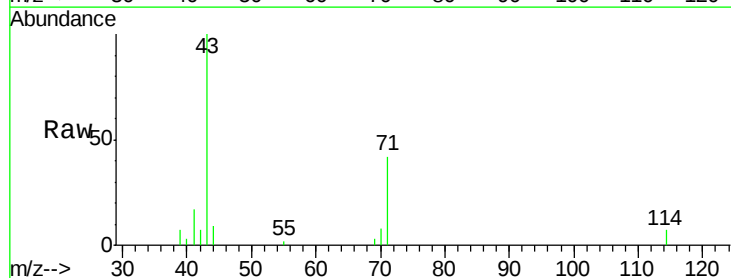
Instrument :
 MSVOA_U
 ClientSampleId :

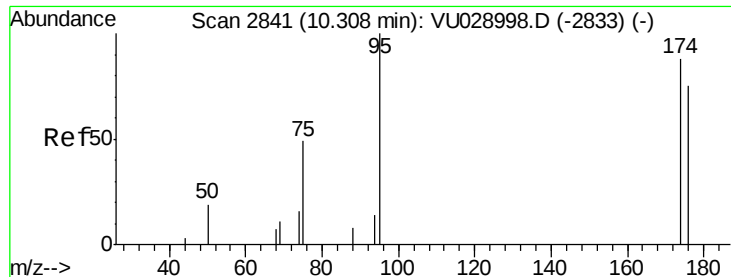
Tot Ion: 76 Resp: 5057
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 4.565 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU029092.D
 Acq: 09 Jan 2019 16:13

Tgt Ion: 43 Resp: 7828
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#

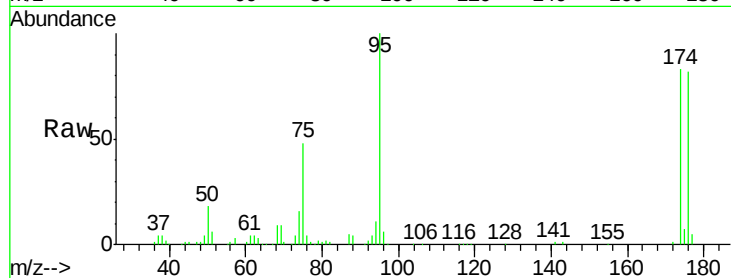




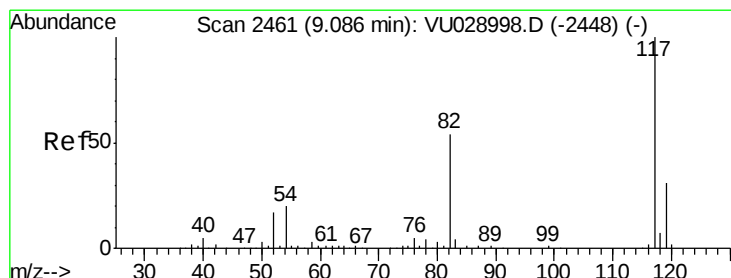
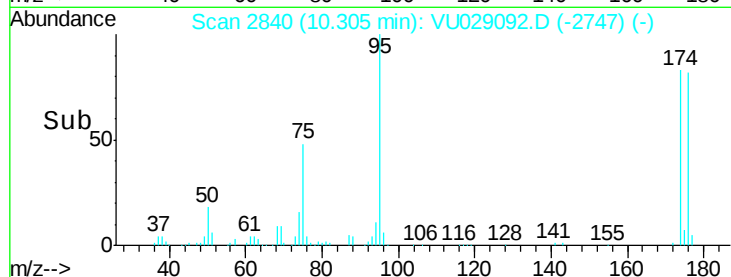
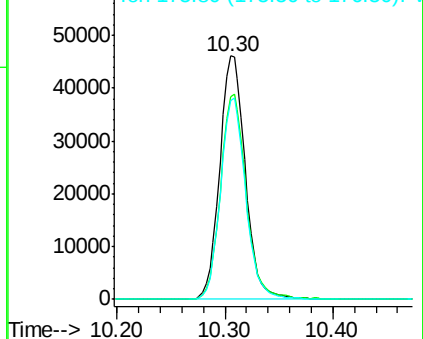
#62
4-Bromofluorobenzene
Concen: 43.440 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029092.D
Acq: 09 Jan 2019 16:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 76193
Ion Ratio Lower Upper
95 100
174 83.8 0.0 170.6
176 81.2 0.0 165.0

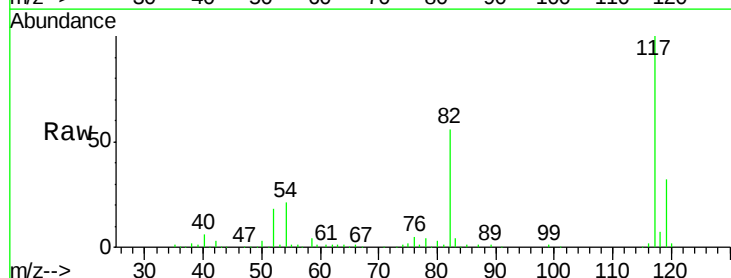


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)
Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)
Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

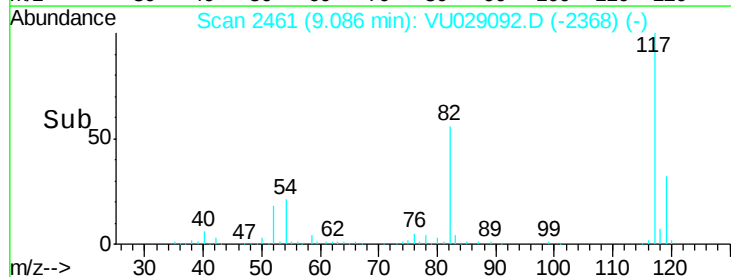
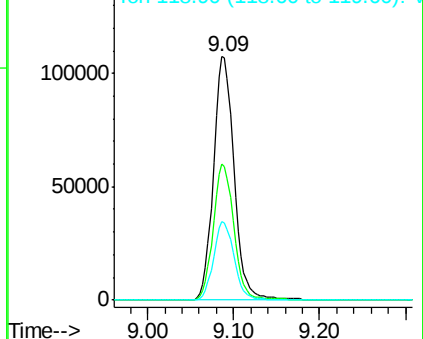


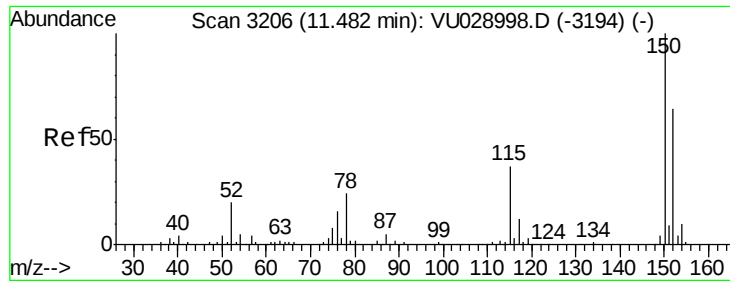
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029092.D
Acq: 09 Jan 2019 16:13

Tgt Ion: 117 Resp: 180931
Ion Ratio Lower Upper
117 100
82 55.7 43.9 65.9
119 32.0 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VU028998.D (-2448) (-)
Ion 82.00 (81.70 to 82.70): VU028998.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): VU028998.D (-2448) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

Instrument :

MSVOA_U

ClientSampleId :

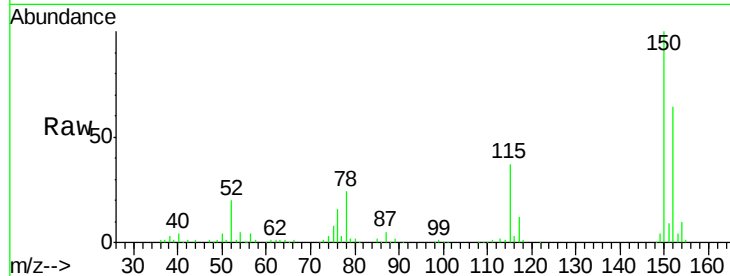
Tot Ion:152 Resp: 69711

Ion Ratio Lower Upper

152 100

115 57.7 40.1 120.3

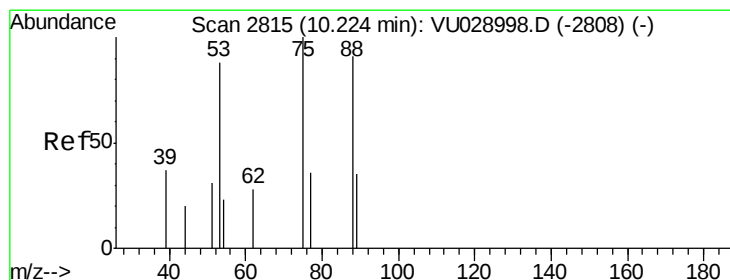
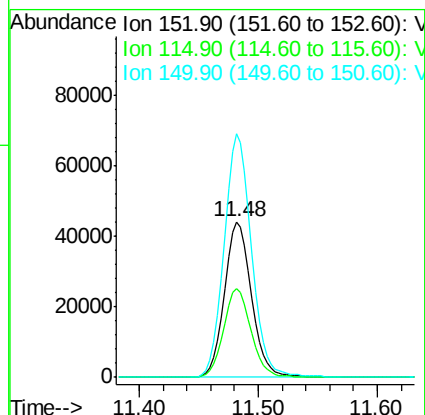
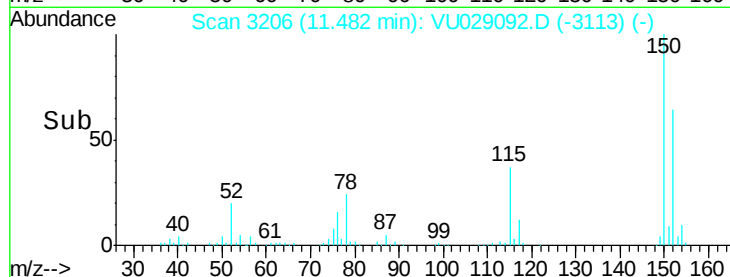
150 157.6 0.0 345.2



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: 20.544 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029092.D

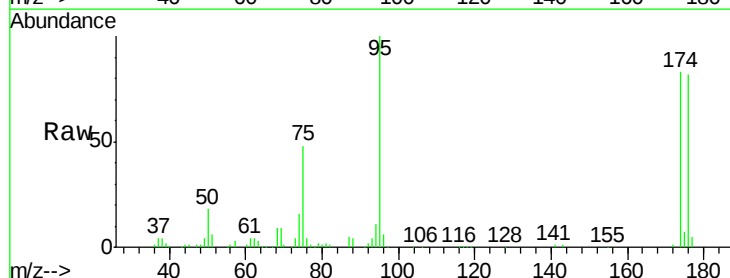
Acq: 09 Jan 2019 16:13

Tgt Ion: 75 Resp: 35090

Ion Ratio Lower Upper

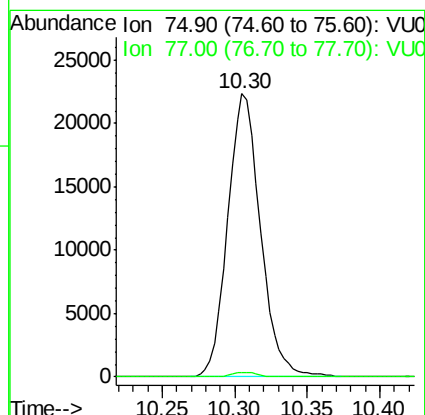
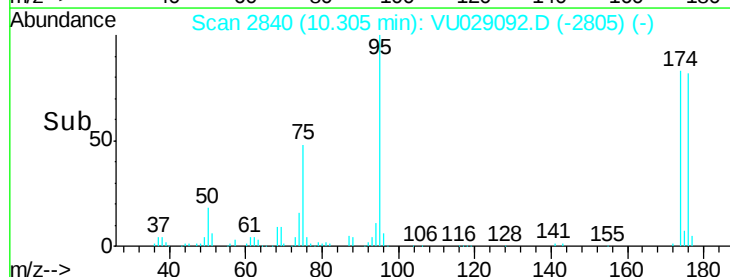
75 100

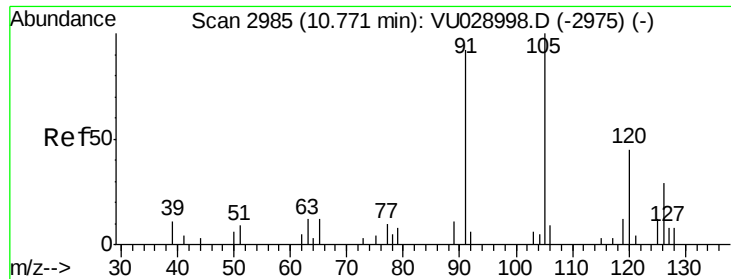
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.214 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

Instrument :

MSVOA_U

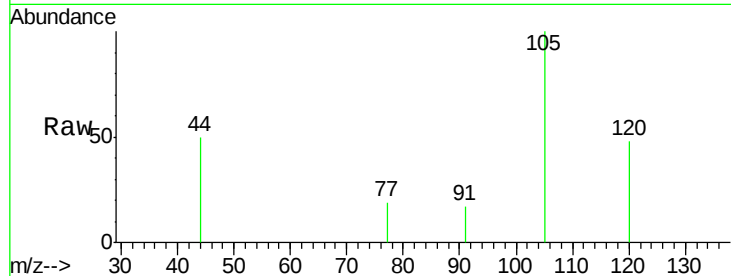
ClientSampleId :

Tot Ion:105 Resp: 924

Ion Ratio Lower Upper

105 100

120 45.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.77

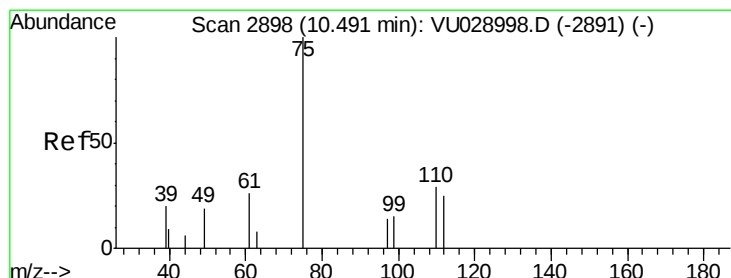
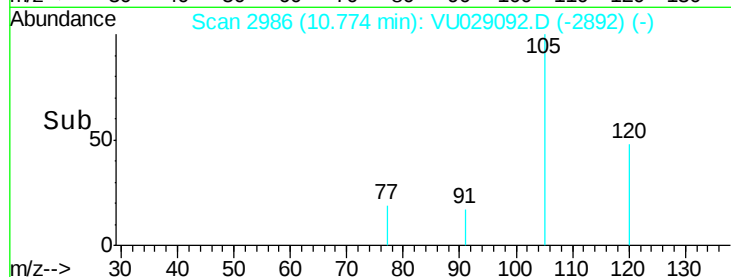
600

400

200

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 52.984 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029092.D

Acq: 09 Jan 2019 16:13

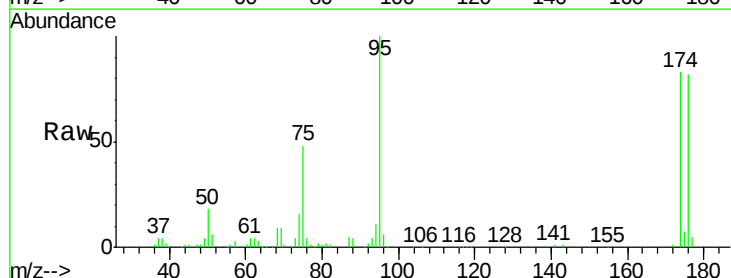
Tgt Ion: 75 Resp: 35090

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

30000

25000

20000

15000

10000

5000

0

Time-->

