

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029097.D
 Acq On : 09 Jan 2019 18:15
 Operator : MD/SY
 Sample : PB116248ZHE#12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:07:32 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	110232	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	189701	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	179692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	66249	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	77386	56.79	ug/l	0.00
Spiked Amount			Recovery	=	113.58%	
35) Dibromofluoromethane	4.88	113	66282	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	
50) Toluene-d8	7.56	98	250103	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	10.30	95	74620	42.77	ug/l	0.00
Spiked Amount			Recovery	=	85.54%	

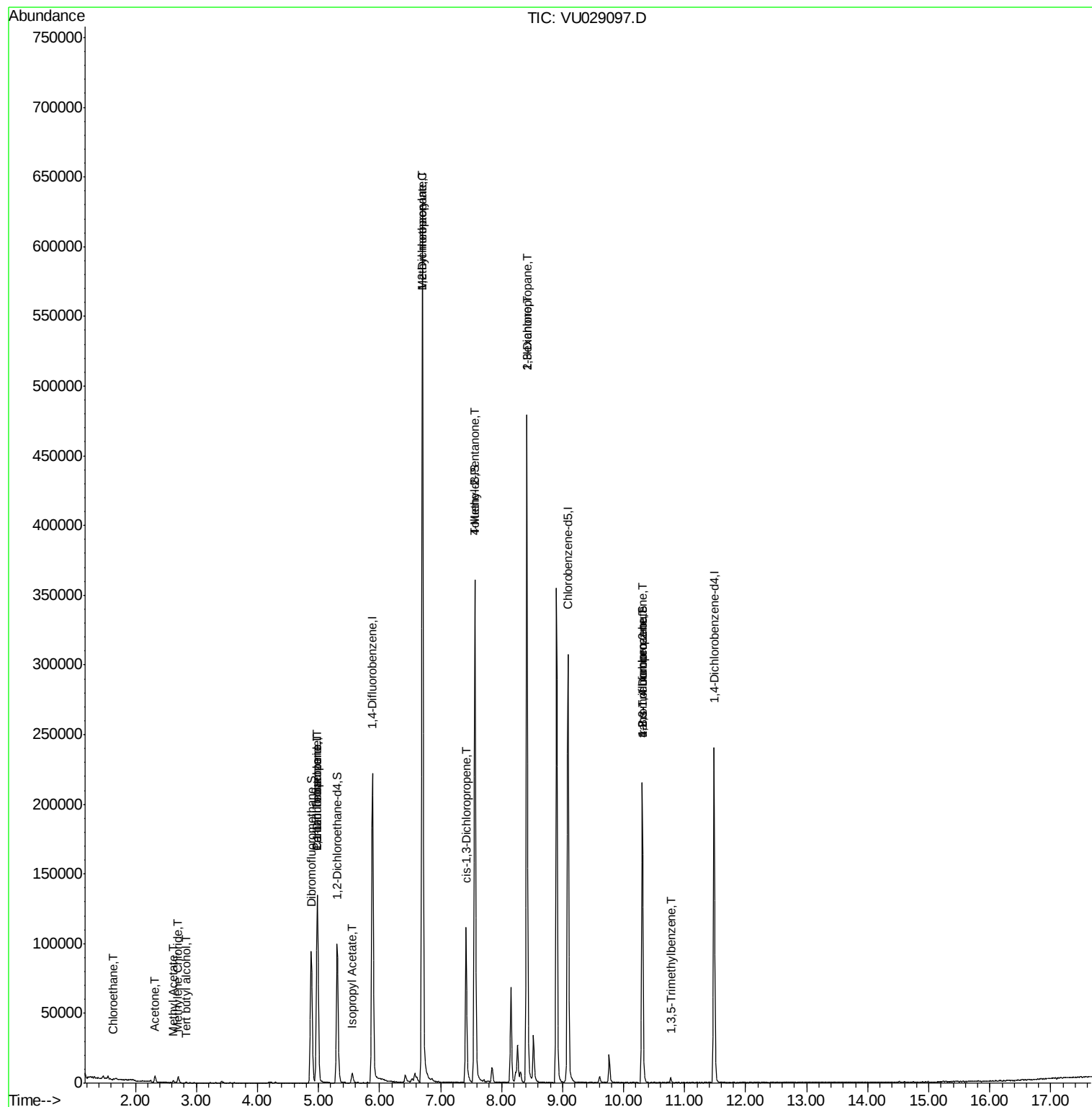
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	681	Below Cal		91
6) Chloroethane	1.65	64	283	0.295	ug/l #	43
11) Tert butyl alcohol	2.82	59	140	0.404	ug/l #	73
16) Acetone	2.32	43	5391	6.280	ug/l	97
17) Carbon Disulfide	2.48	76	41	Below Cal	#	75
18) Methyl Acetate	2.63	43	2036	1.020	ug/l #	78
20) Methylene Chloride	2.70	84	1873	1.285	ug/l	93
31) Cyclohexane	4.98	56	1932	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8086	4.264	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9368	5.924	ug/l #	17
43) Isopropyl Acetate	5.55	43	8227	2.577	ug/l	93
45) 1,2-Dichloropropane	6.70	63	751	0.481	ug/l #	43
48) Methyl methacrylate	6.70	41	53272	34.267	ug/l #	37
51) 4-Methyl-2-Pentanone	7.56	43	4267	1.964	ug/l	94
54) cis-1,3-Dichloropropene	7.42	75	20924	8.769	ug/l #	63
57) 1,3-Dichloropropane	8.41	76	4857	1.968	ug/l #	42
59) 2-Hexanone	8.41	43	64029	37.540	ug/l #	48
76) 1,2,3-Trichloropropane	10.30	75	35361	21.785	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2344	0.572	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.30	75	35361	56.184	ug/l #	100

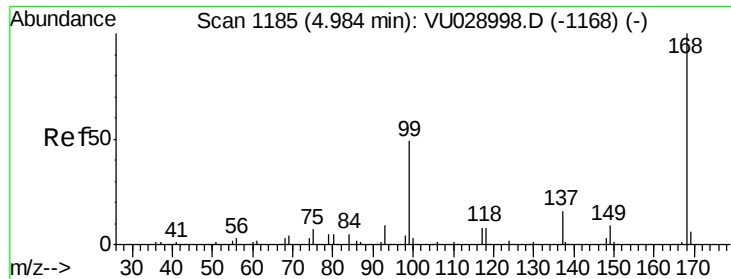
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

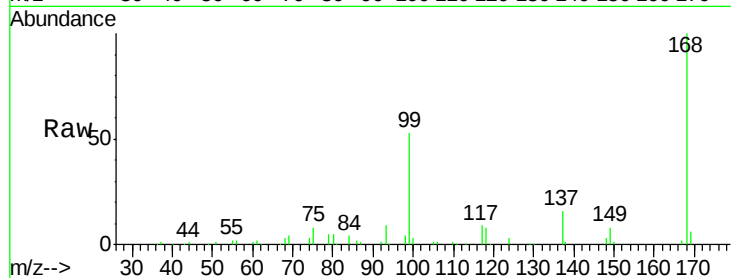
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 110232

Ion Ratio Lower Upper

168 100

99 52.6 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) (-)

4.98

50000

40000

30000

20000

10000

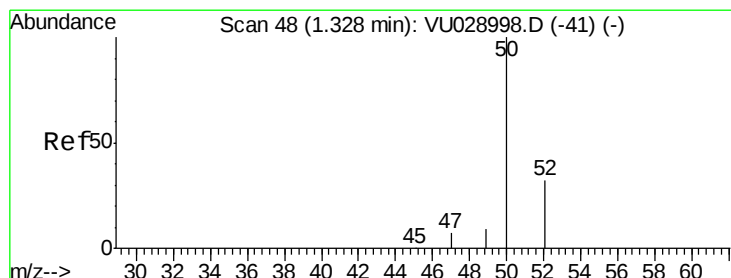
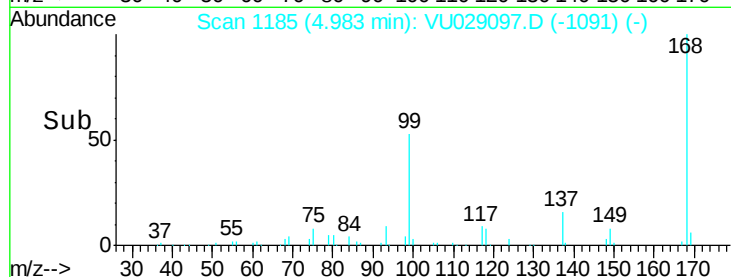
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029097.D

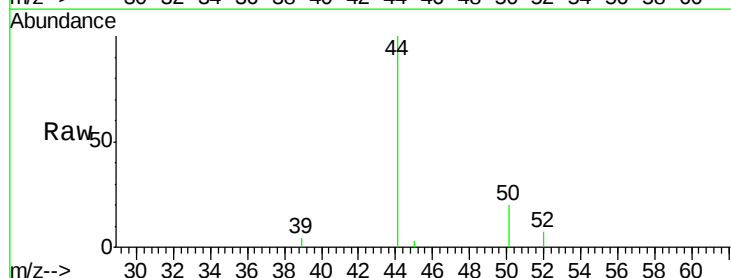
Acq: 09 Jan 2019 18:15

Tgt Ion: 50 Resp: 681

Ion Ratio Lower Upper

50 100

52 37.5 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) (-)

1.33

800

600

400

200

0

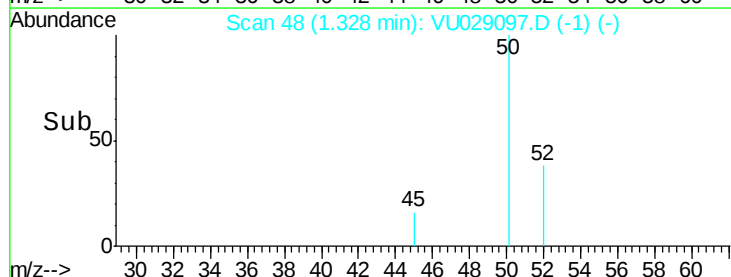
1.30

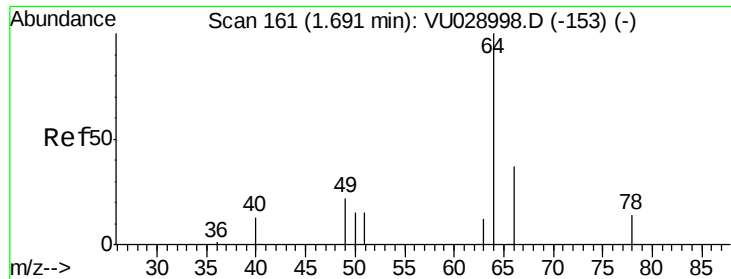
1.32

1.34

1.36

Time-->





#6

Chloroethane

Concen: 0.295 ug/l

RT: 1.65 min Scan# 149

Delta R.T. -0.03 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :

MSVOA_U

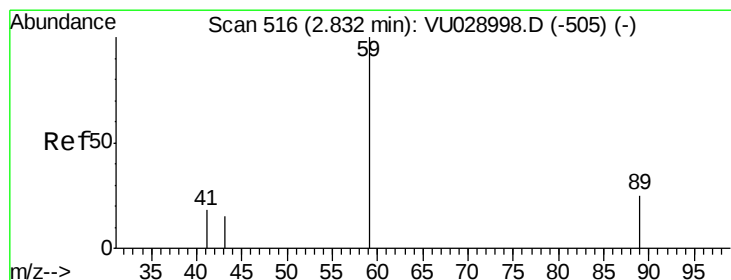
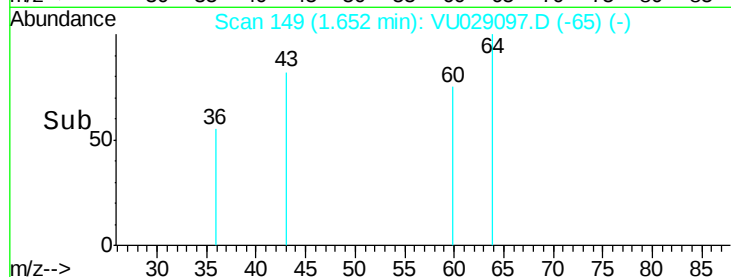
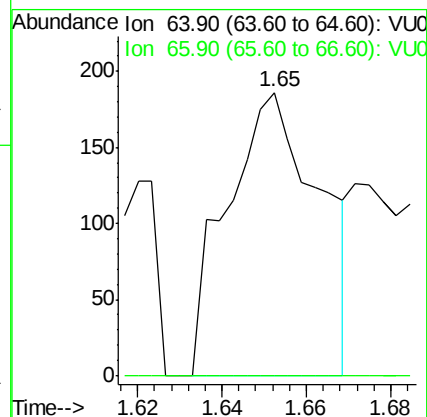
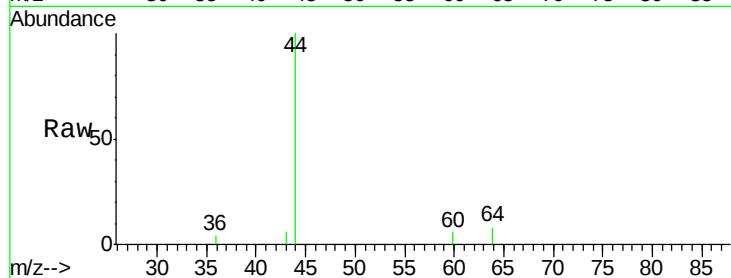
ClientSampleId :

Tot Ion: 64 Resp: 283

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#11

Tert butyl alcohol

Concen: 0.404 ug/l

RT: 2.82 min Scan# 513

Delta R.T. -0.01 min

Lab File: VU029097.D

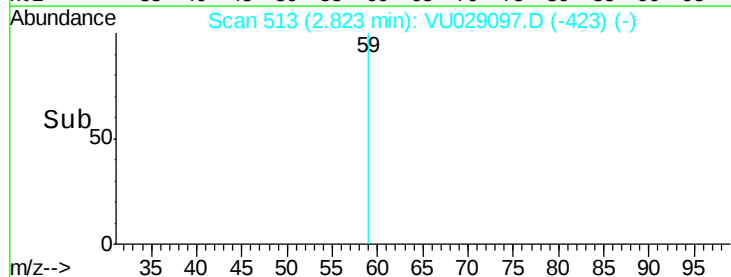
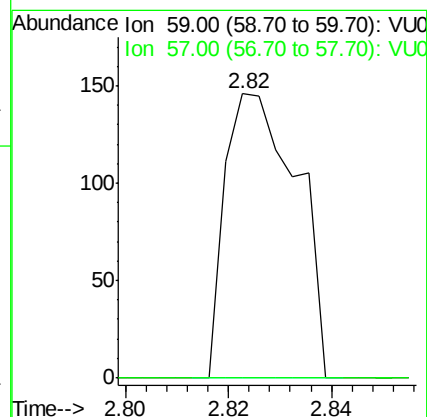
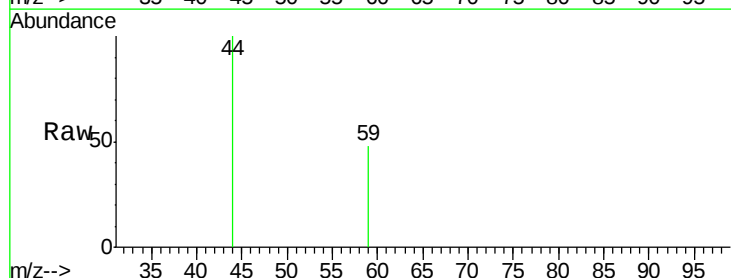
Acq: 09 Jan 2019 18:15

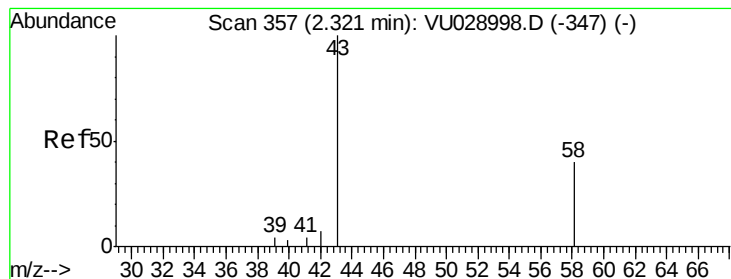
Tgt Ion: 59 Resp: 140

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#16

Acetone

Concen: 6.280 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

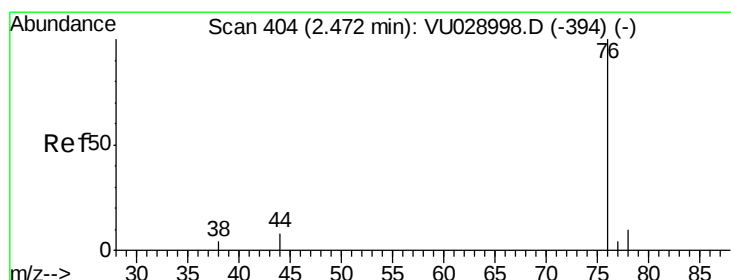
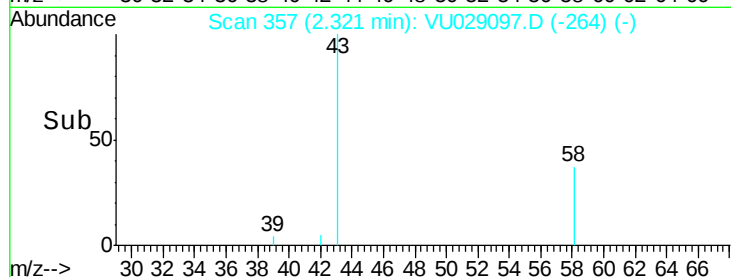
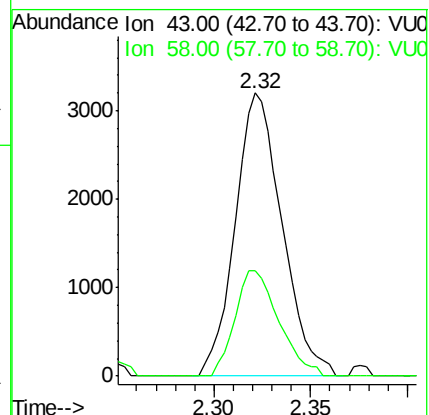
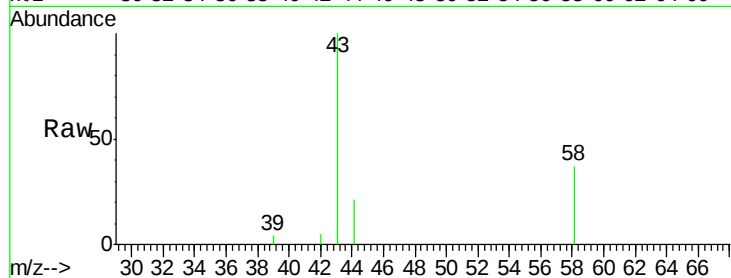
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5391

Ion Ratio Lower Upper

43 100

58 37.5 28.6 42.8



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU029097.D

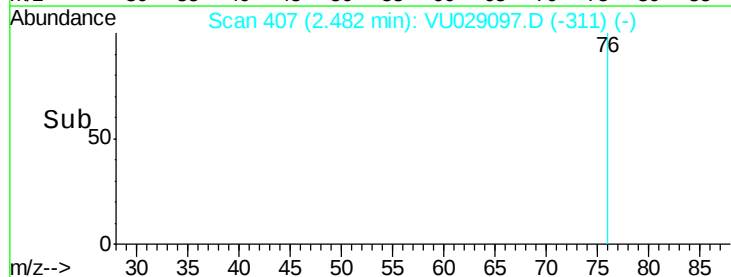
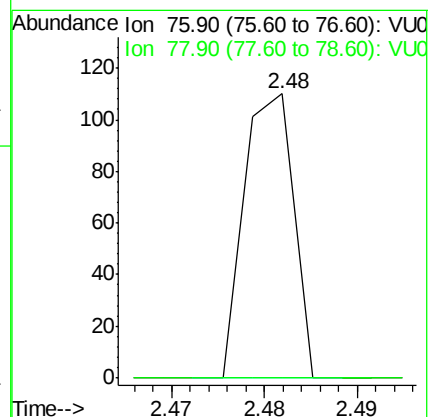
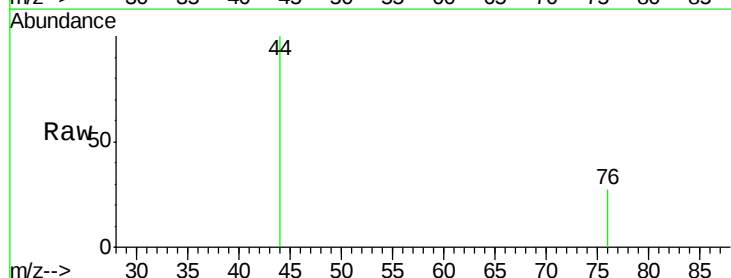
Acq: 09 Jan 2019 18:15

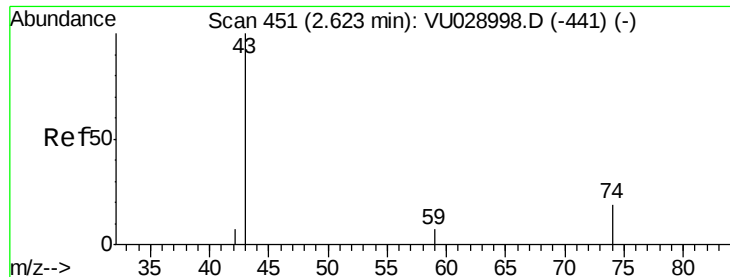
Tgt Ion: 76 Resp: 41

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

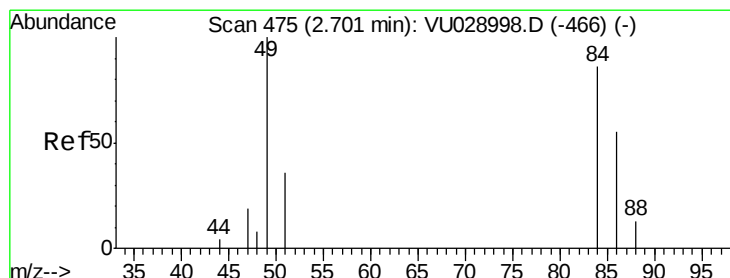
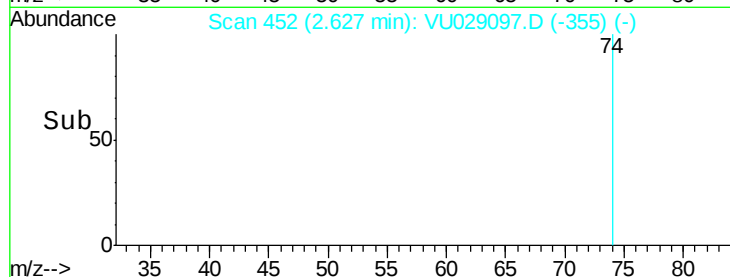
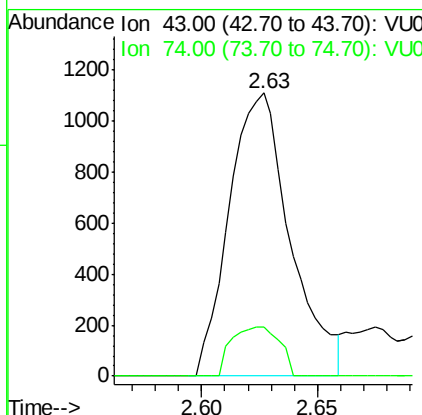
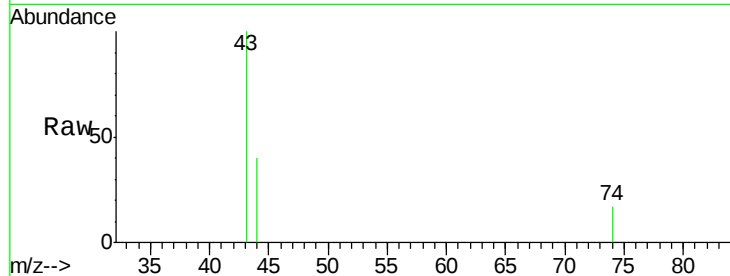




#18
Methyl Acetate
Concen: 1.020 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU029097.D
Acq: 09 Jan 2019 18:15

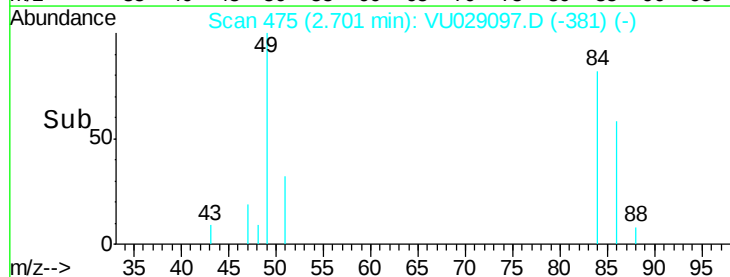
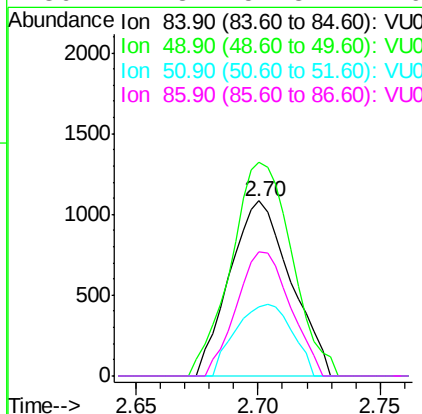
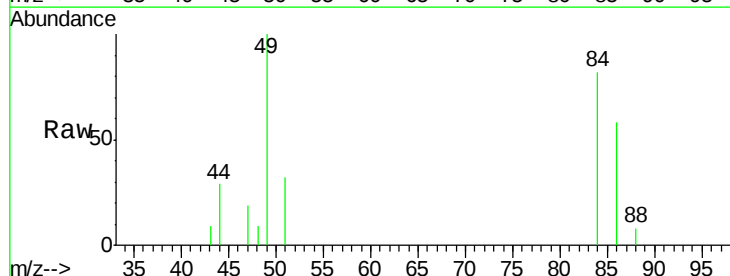
Instrument :
MSVOA_U
ClientSampleId :

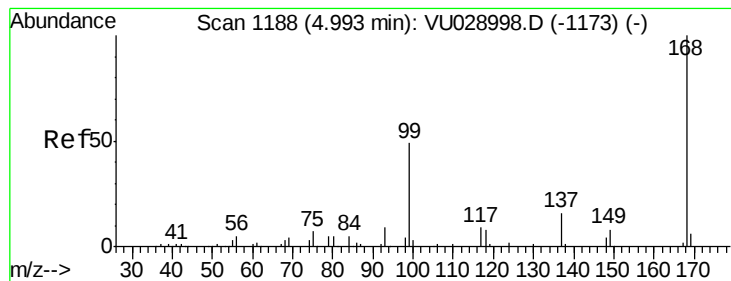
Tot Ion: 43 Resp: 2036
Ion Ratio Lower Upper
43 100
74 13.6 19.5 29.3#



#20
Methylene Chloride
Concen: 1.285 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029097.D
Acq: 09 Jan 2019 18:15

Tgt Ion: 84 Resp: 1873
Ion Ratio Lower Upper
84 100
49 122.1 91.9 137.9
51 39.6 29.2 43.8
86 71.3 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

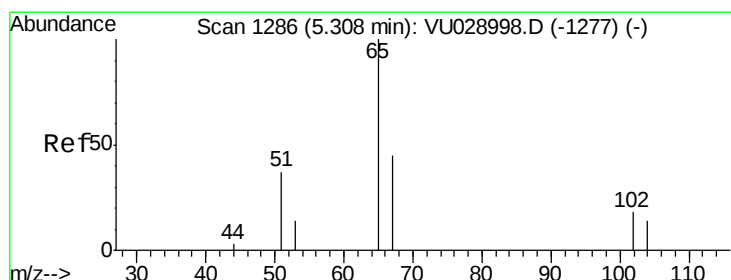
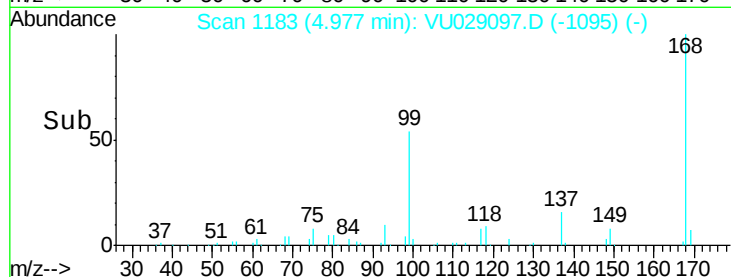
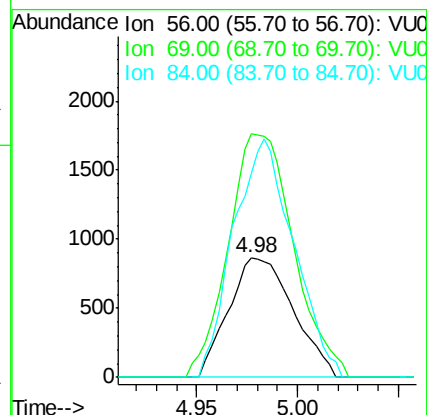
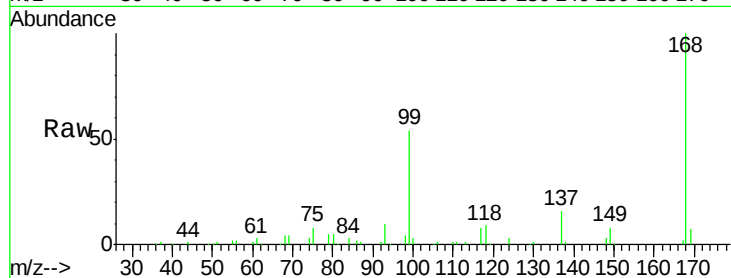
Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 1932

Ion	Ratio	Lower	Upper
56	100		
69	191.8	26.7	40.1#
84	171.0	65.7	98.5#



#33

1,2-Dichloroethane-d4

Concen: 56.789 ug/l

RT: 5.31 min Scan# 1286

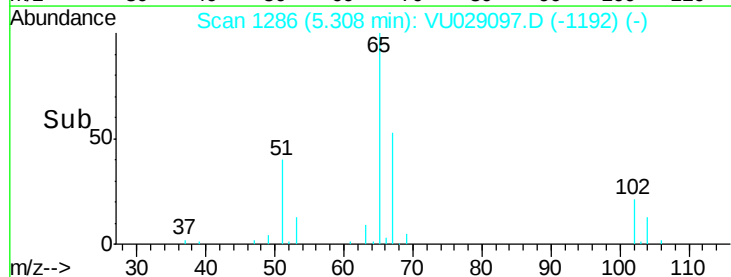
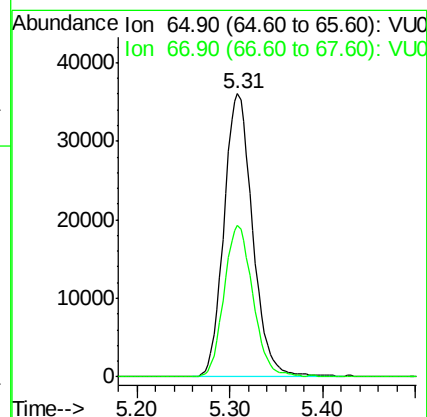
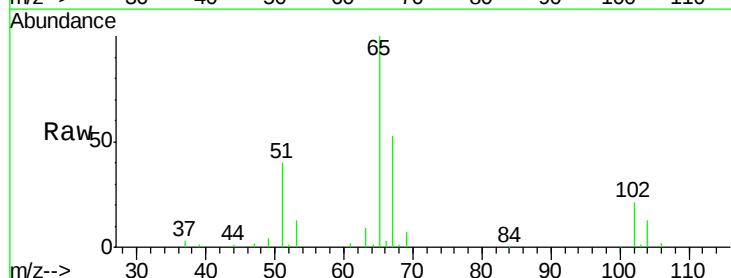
Delta R.T. 0.00 min

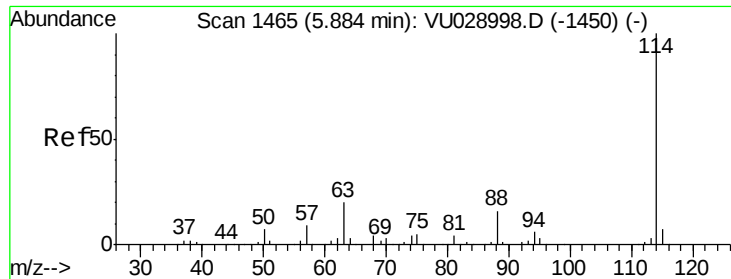
Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Tgt Ion: 65 Resp: 77386

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	111.0

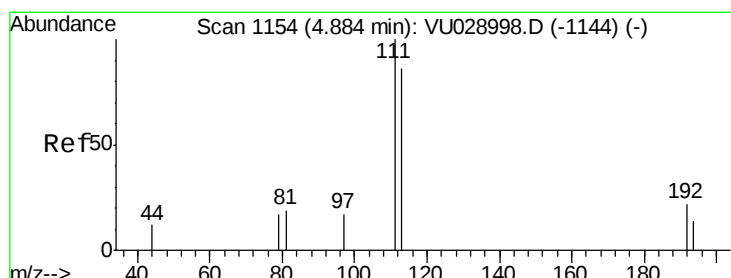
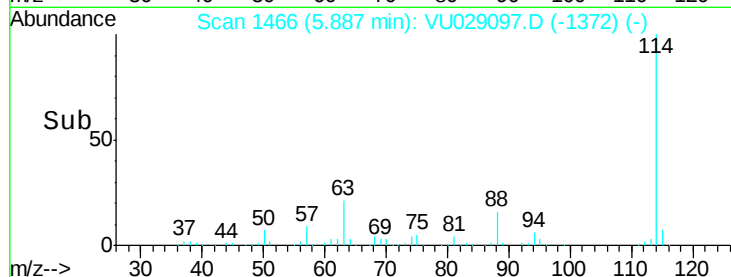
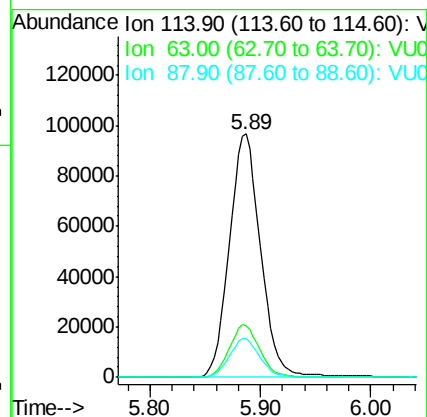
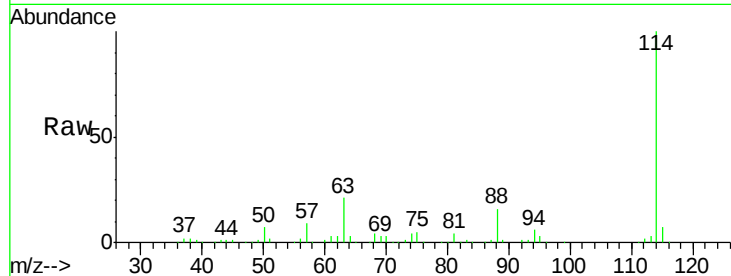




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU029097.D
 Acq: 09 Jan 2019 18:15

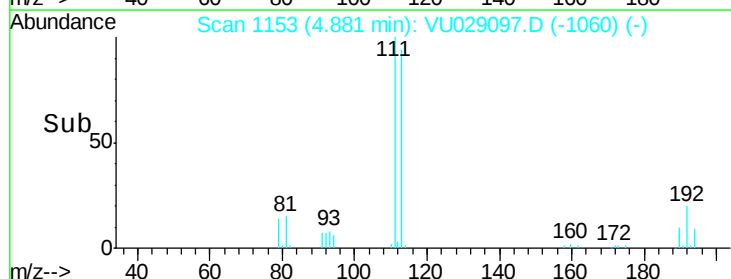
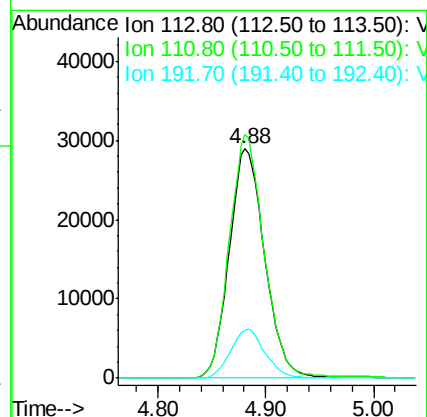
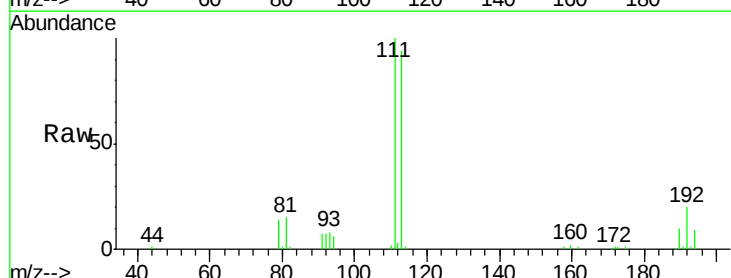
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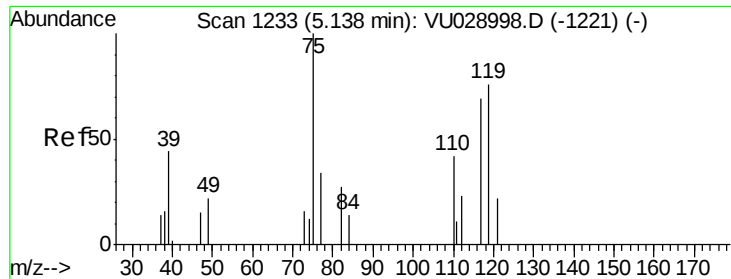
Tot Ion:114 Resp: 189701
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.2
 88 15.7 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 53.901 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU029097.D
 Acq: 09 Jan 2019 18:15

Tgt Ion:113 Resp: 66282
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.4 122.2
 192 20.5 16.8 25.2

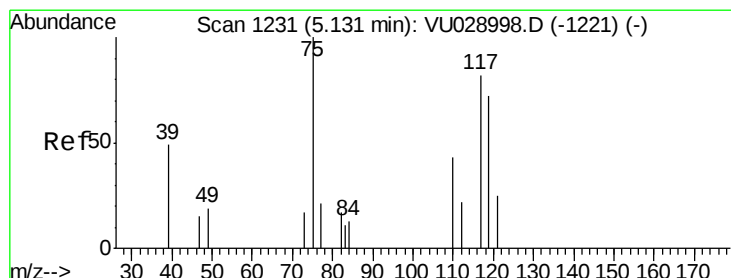
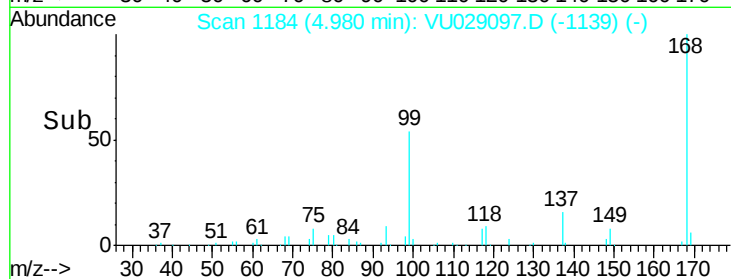
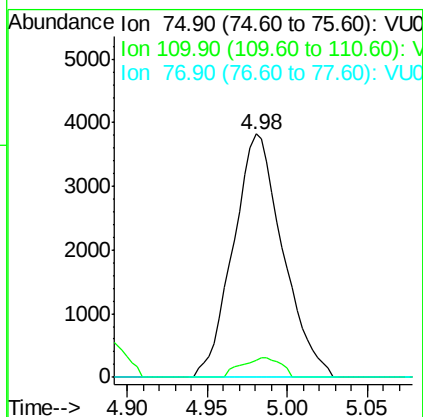
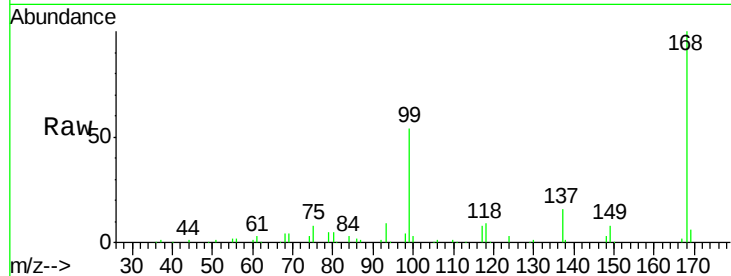




#36
 1,1-Dichloropropene
 Concen: 4.264 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029097.D
 Acq: 09 Jan 2019 18:15

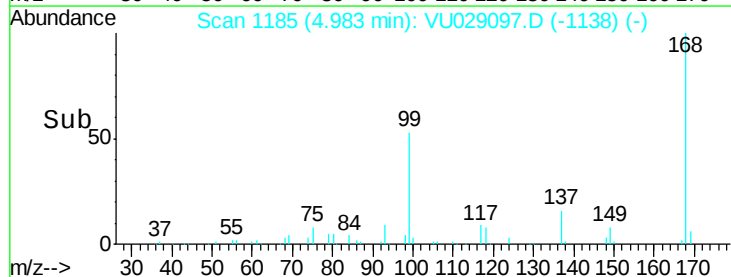
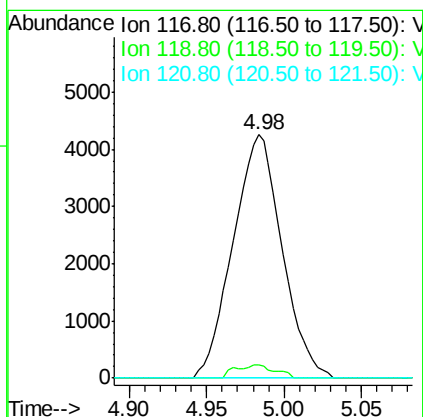
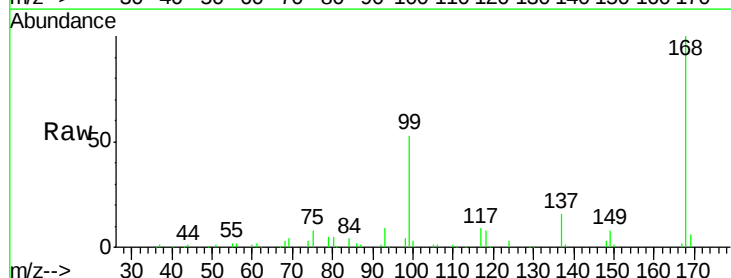
Instrument :
 MSVOA_U
 ClientSampleId :

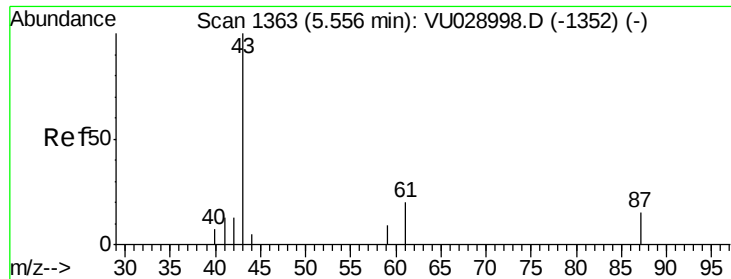
Tot Ion: 75 Resp: 8086
 Ion Ratio Lower Upper
 75 100
 110 6.4 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.924 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029097.D
 Acq: 09 Jan 2019 18:15

Tgt Ion: 117 Resp: 9368
 Ion Ratio Lower Upper
 117 100
 119 5.6 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.577 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

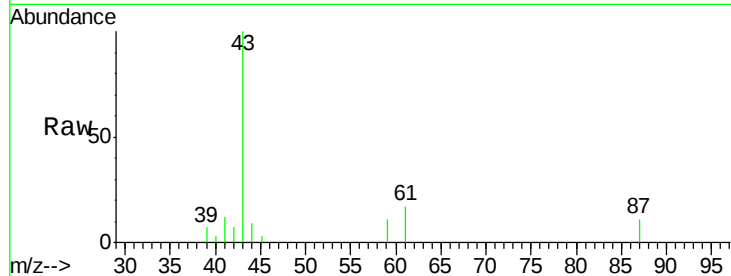
Tot Ion: 43 Resp: 8227

Ion Ratio Lower Upper

43 100

61 18.1 17.8 26.6

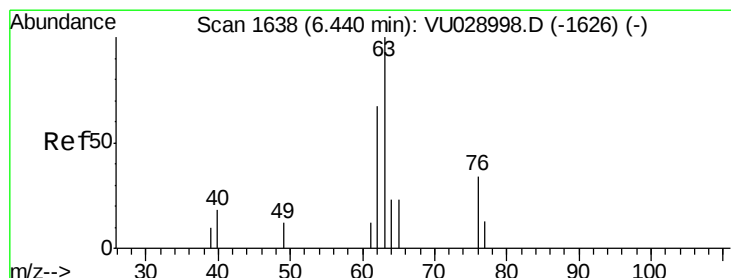
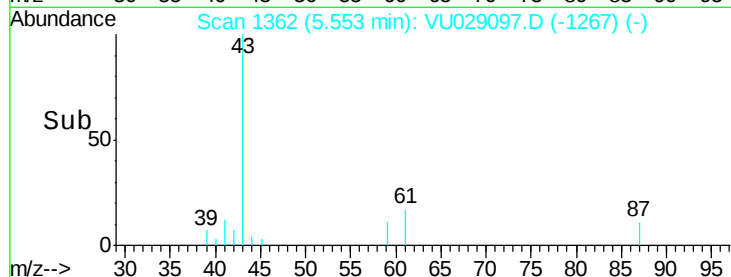
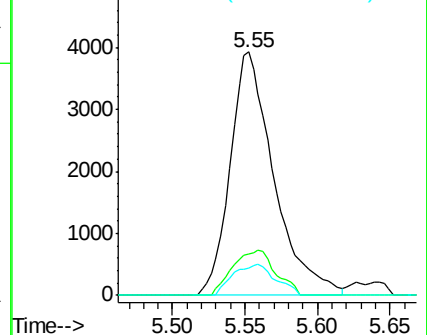
87 12.4 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1352) (-)

Ion 61.00 (60.70 to 61.70): VU028998.D (-1352) (-)

Ion 87.00 (86.70 to 87.70): VU028998.D (-1352) (-)



#45

1,2-Dichloropropane

Concen: 0.481 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.27 min

Lab File: VU029097.D

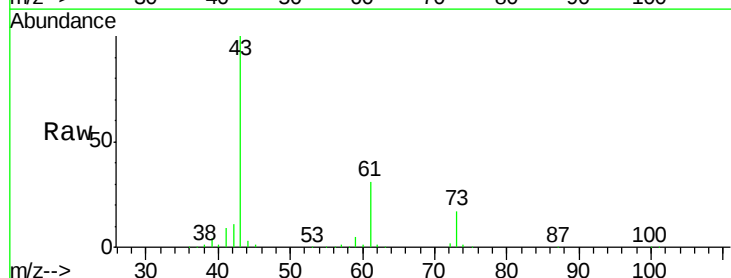
Acq: 09 Jan 2019 18:15

Tgt Ion: 63 Resp: 751

Ion Ratio Lower Upper

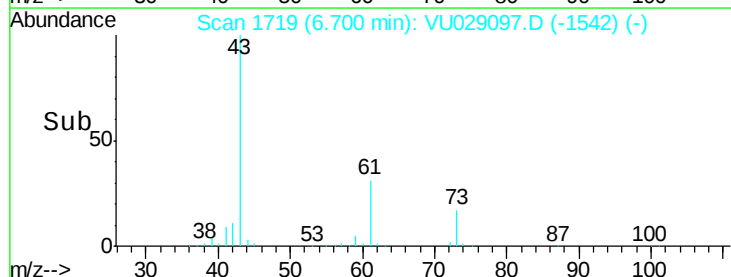
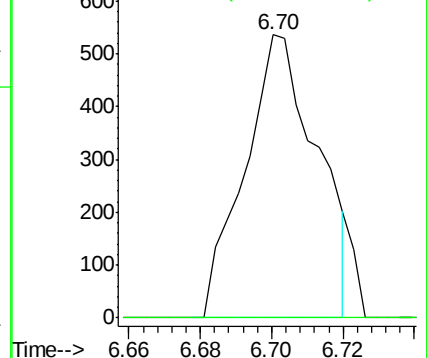
63 100

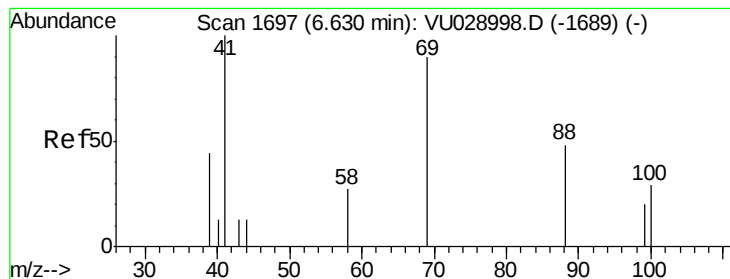
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU028998.D (-1626) (-)

Ion 64.90 (64.60 to 65.60): VU028998.D (-1626) (-)





#48

Methvl methacrylate

Concen: 34.267 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

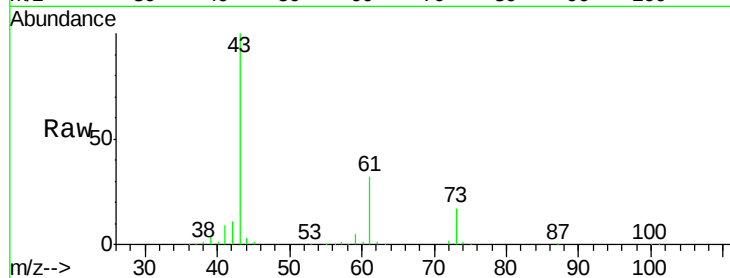
Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 53272

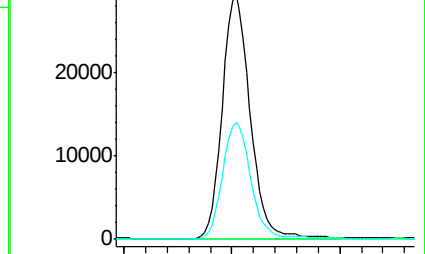
Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.6	110.4#
39	48.6	39.6	59.4



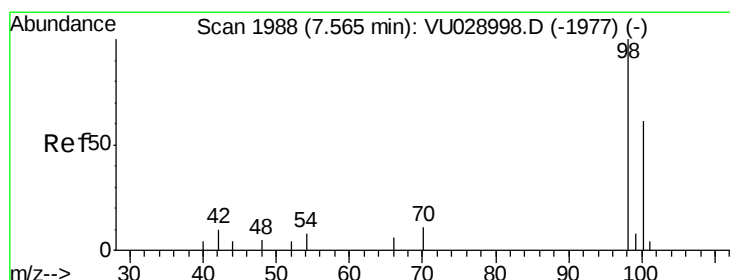
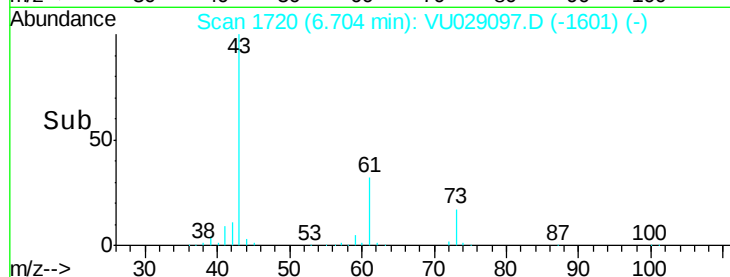
Abundance Ion 41.00 (40.70 to 41.70): VU028998.D (-1689) (-)

Ion 69.00 (68.70 to 69.70): VU028998.D (-1689) (-)

Ion 39.00 (38.70 to 39.70): VU028998.D (-1689) (-)



Time-->



#50

Toluene-d8

Concen: 51.518 ug/l

RT: 7.56 min Scan# 1987

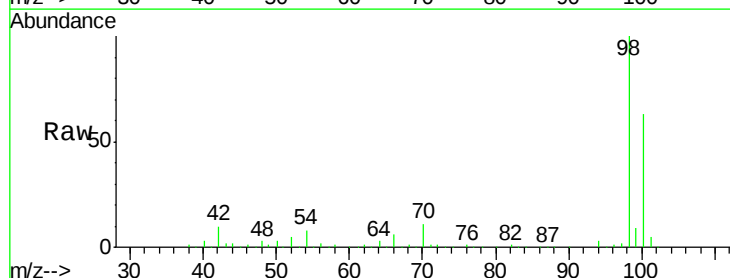
Delta R.T. -0.00 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

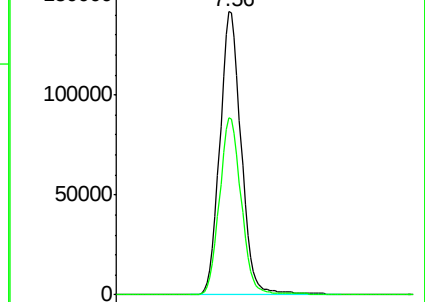
Tgt Ion: 98 Resp: 250103

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

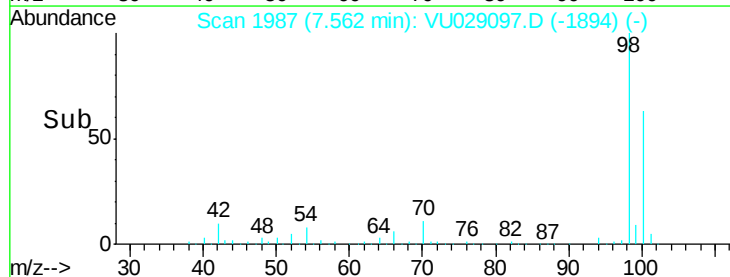


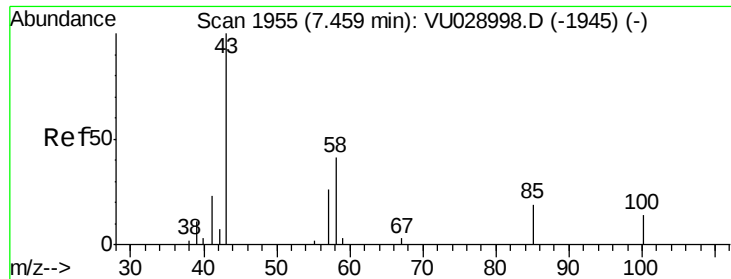
Abundance Ion 98.00 (97.70 to 98.70): VU028998.D (-1977) (-)

Ion 100.00 (99.70 to 100.70): VU028998.D (-1977) (-)



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.964 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :

MSVOA_U

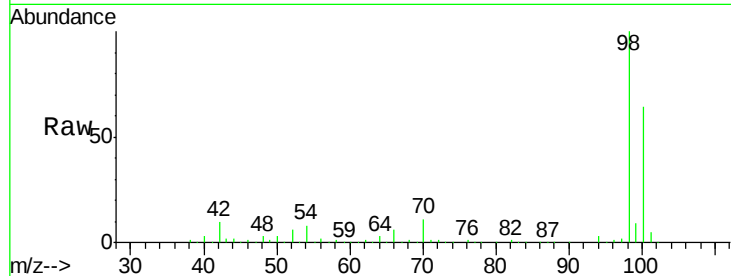
ClientSampled :

Tot Ion: 43 Resp: 4267

Ion Ratio Lower Upper

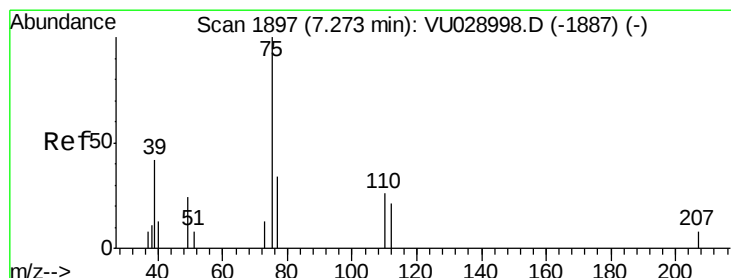
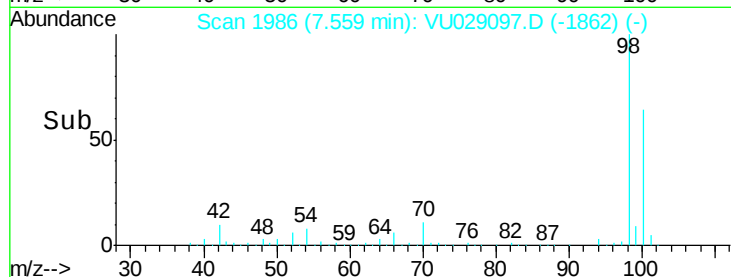
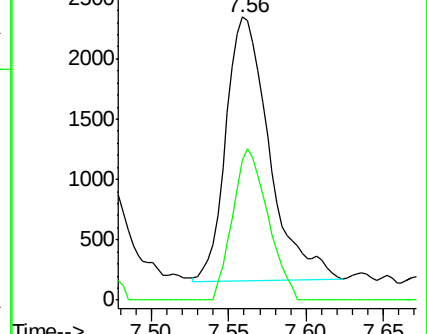
43 100

58 46.4 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 8.769 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

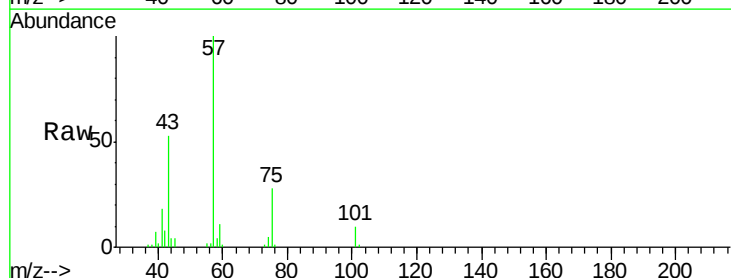
Tgt Ion: 75 Resp: 20924

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

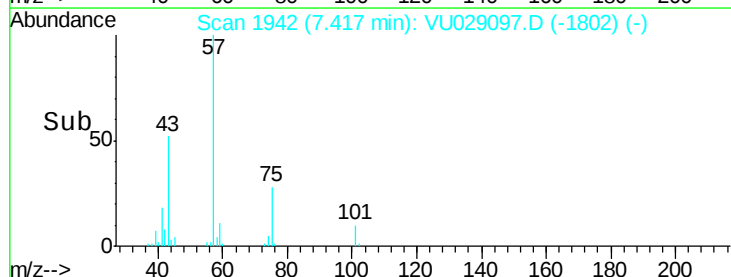
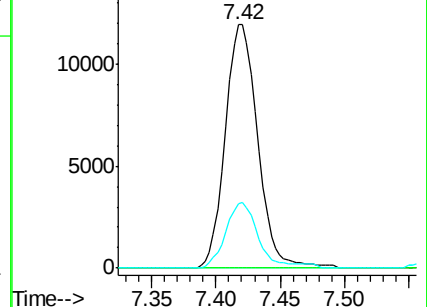
39 26.4 32.2 48.4#

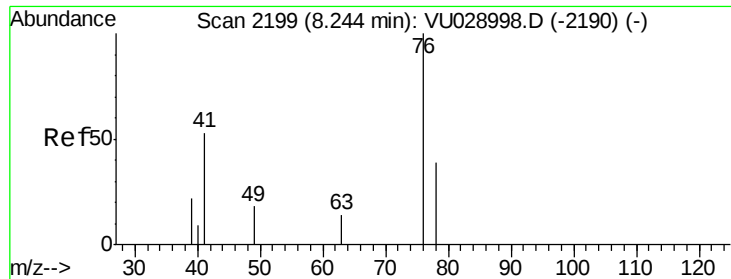


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

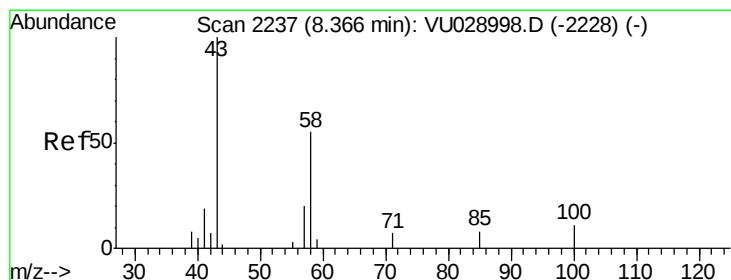
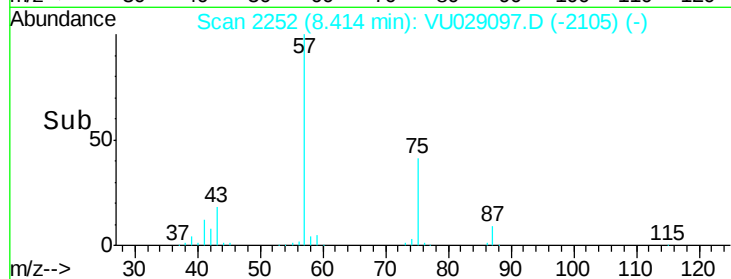
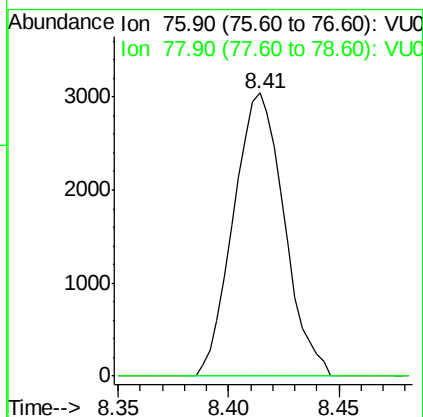
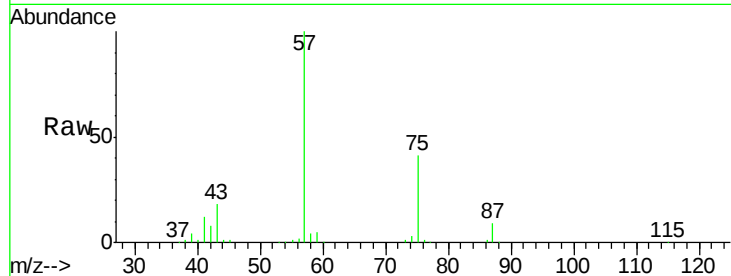




#57
 1,3-Dichloropropane
 Concen: 1.968 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029097.D
 Acq: 09 Jan 2019 18:15

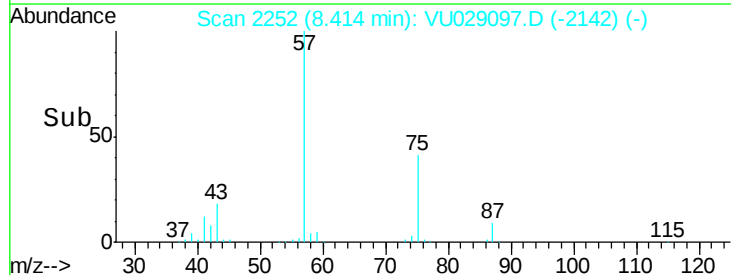
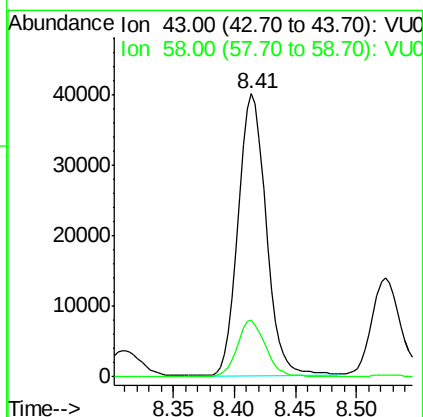
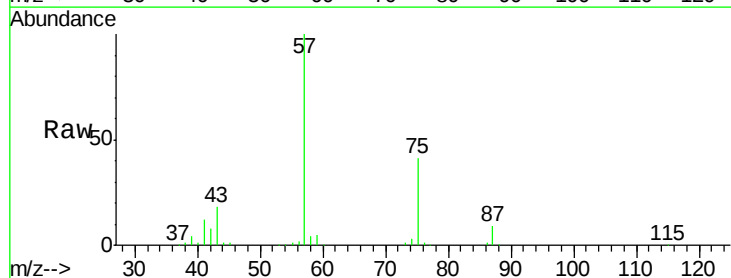
Instrument :
 MSVOA_U
 ClientSampled :

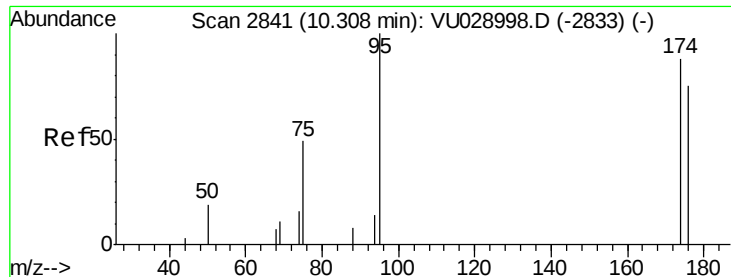
Tot Ion: 76 Resp: 4857
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 37.540 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.05 min
 Lab File: VU029097.D
 Acq: 09 Jan 2019 18:15

Tgt Ion: 43 Resp: 64029
 Ion Ratio Lower Upper
 43 100
 58 20.2 29.8 89.4#





#62

4-Bromofluorobenzene

Concen: 42.770 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :

MSVOA_U

ClientSampleId :

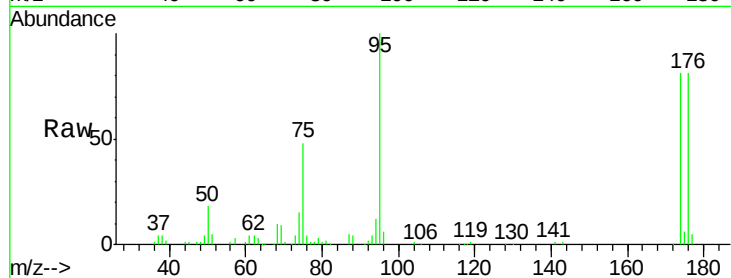
Tot Ion: 95 Resp: 74620

Ion Ratio Lower Upper

95 100

174 84.1 0.0 170.6

176 81.3 0.0 165.0

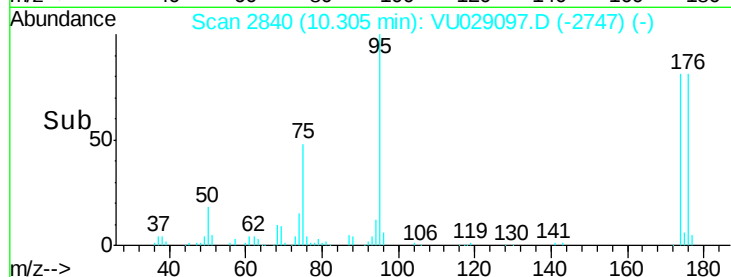


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)

Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)

Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

Time--> 10.20 10.30 10.40

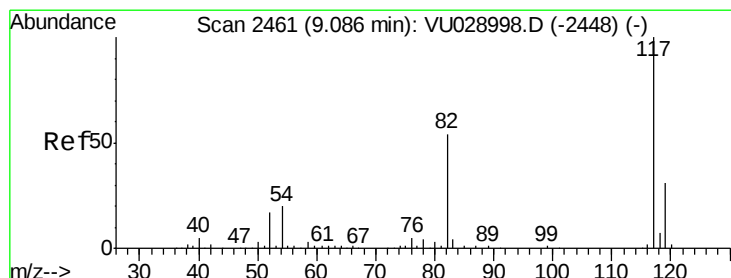


Abundance Ion 94.90 (94.60 to 95.60): VU029097.D (-2747) (-)

Ion 173.80 (173.50 to 174.50): VU029097.D (-2747) (-)

Ion 175.80 (175.50 to 176.50): VU029097.D (-2747) (-)

Time--> 10.20 10.30 10.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

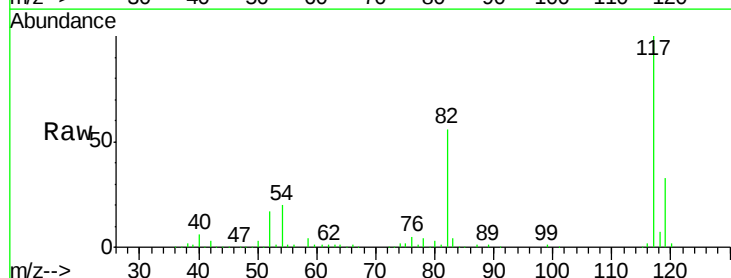
Tgt Ion: 117 Resp: 179692

Ion Ratio Lower Upper

117 100

82 56.2 43.9 65.9

119 32.6 26.0 39.0

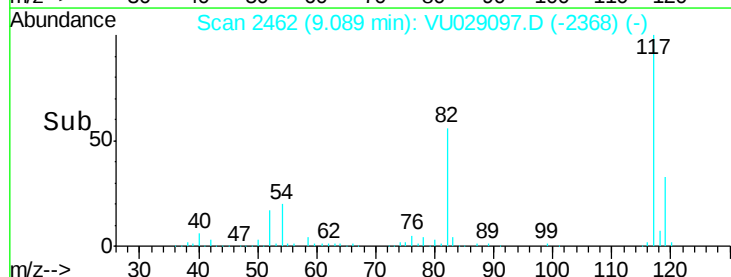


Abundance Ion 116.90 (116.60 to 117.60): VU028998.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028998.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028998.D (-2448) (-)

Time--> 9.00 9.10 9.20

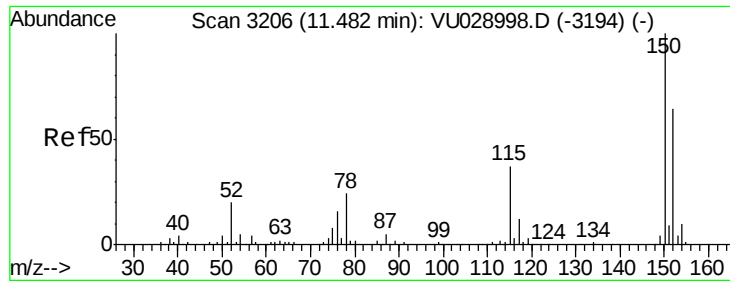


Abundance Ion 116.90 (116.60 to 117.60): VU029097.D (-2368) (-)

Ion 82.00 (81.70 to 82.70): VU029097.D (-2368) (-)

Ion 118.90 (118.60 to 119.60): VU029097.D (-2368) (-)

Time--> 9.00 9.10 9.20

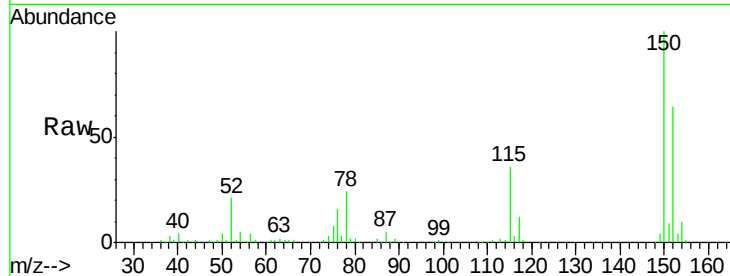


#72

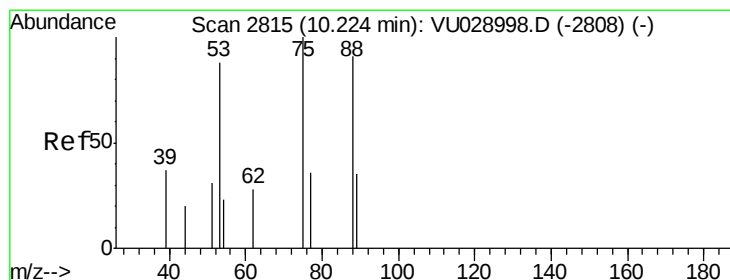
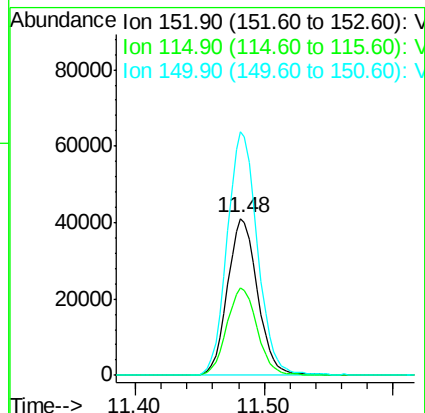
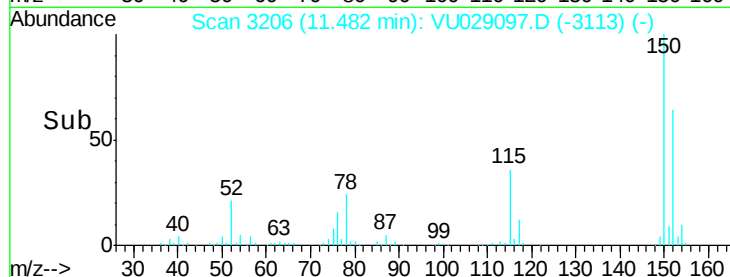
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU029097.D
Acq: 09 Jan 2019 18:15

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:152 Resp: 66249
Ion Ratio Lower Upper
152 100
115 56.5 40.1 120.3
150 156.8 0.0 345.2



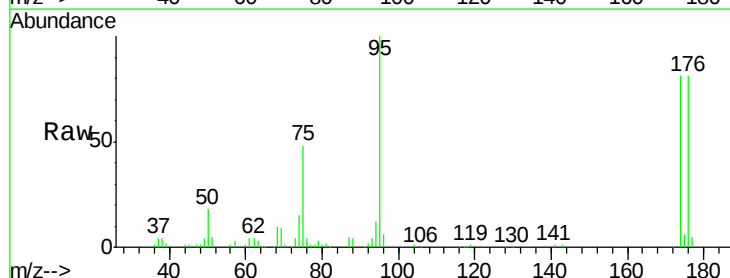
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



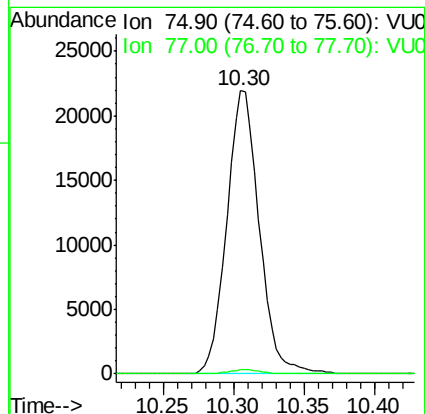
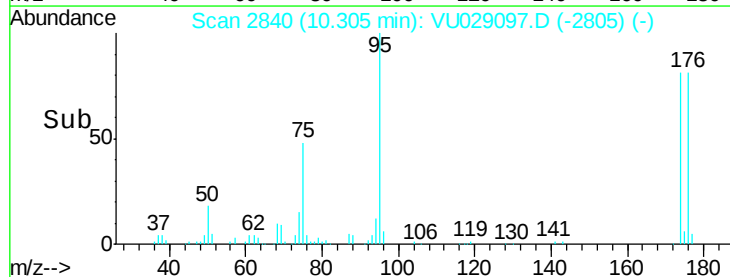
#76

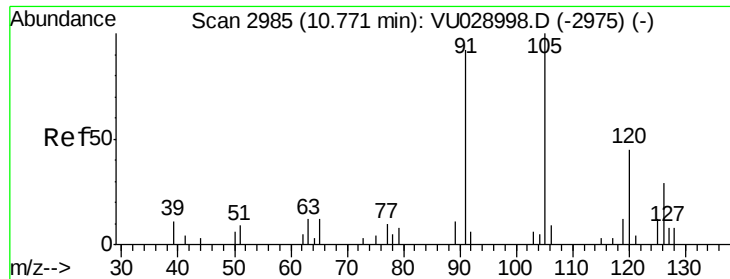
1,2,3-Trichloropropane
Concen: 21.785 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.19 min
Lab File: VU029097.D
Acq: 09 Jan 2019 18:15

Tgt Ion: 75 Resp: 35361
Ion Ratio Lower Upper
75 100
77 1.4 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: 0.572 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

Instrument :

MSVOA_U

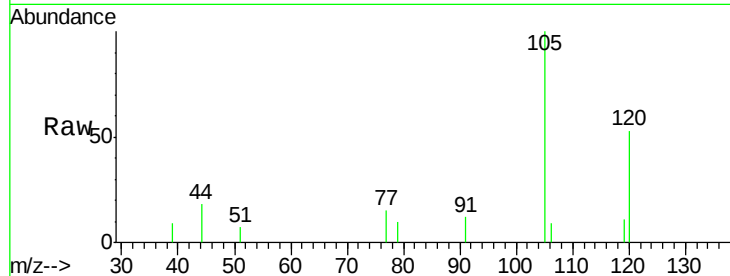
ClientSampleId :

Tot Ion:105 Resp: 2344

Ion Ratio Lower Upper

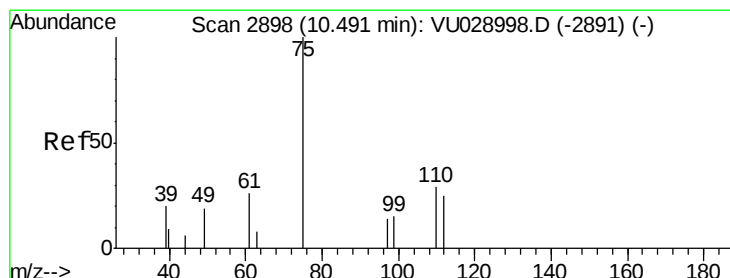
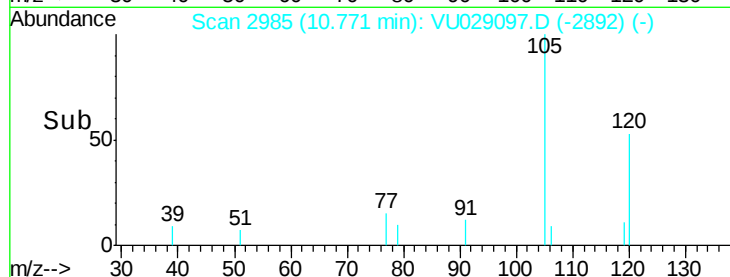
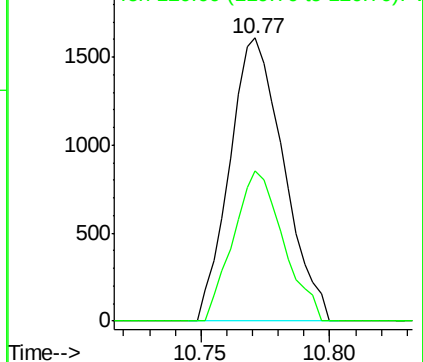
105 100

120 48.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 56.184 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029097.D

Acq: 09 Jan 2019 18:15

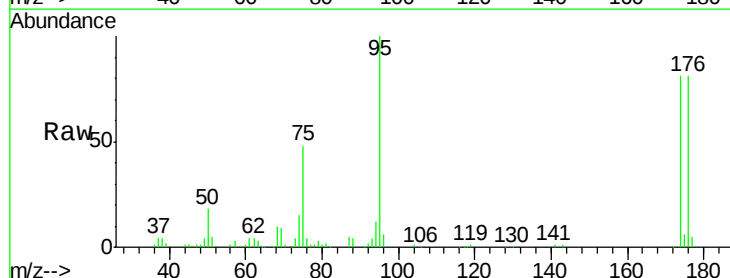
Tgt Ion: 75 Resp: 35361

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

