

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029093.D
 Acq On : 09 Jan 2019 16:37
 Operator : MD/SY
 Sample : PB116248ZHE#08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:06:39 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	107735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	188695	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	177533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	68377	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	74831	56.19	ug/l	0.00
Spiked Amount			Recovery	=	112.38%	
35) Dibromofluoromethane	4.88	113	64347	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
50) Toluene-d8	7.56	98	244934	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	10.30	95	74040	42.66	ug/l	0.00
Spiked Amount			Recovery	=	85.32%	

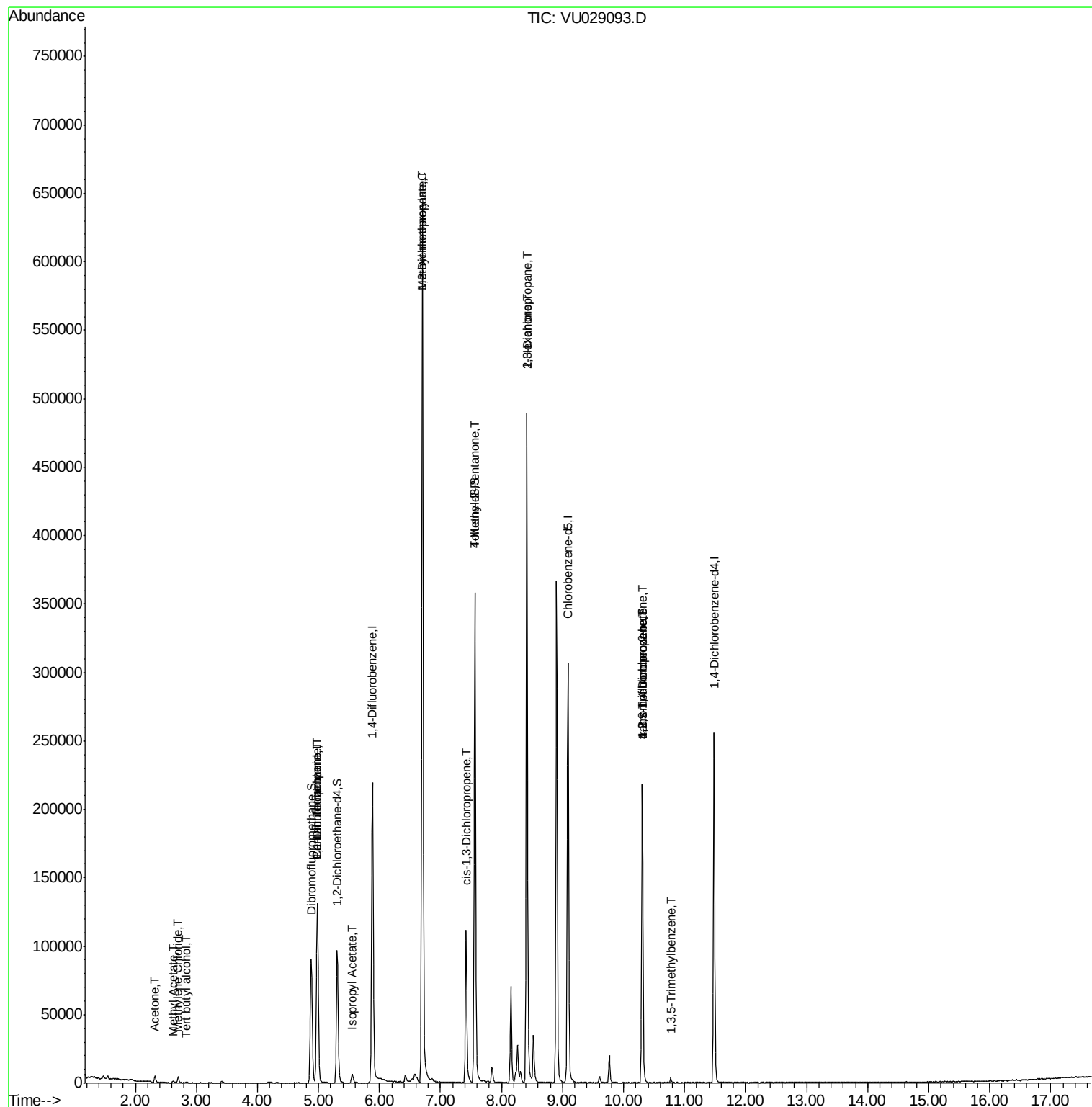
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	701	Below Cal	#	86
5) Bromomethane	1.63	94	97	Below Cal	#	2
11) Tert butyl alcohol	2.84	59	259	0.765	ug/l #	73
16) Acetone	2.32	43	5234	6.238	ug/l	98
17) Carbon Disulfide	2.48	76	19	Below Cal	#	75
18) Methyl Acetate	2.62	43	1874	0.961	ug/l	96
20) Methylene Chloride	2.70	84	2004	1.407	ug/l	95
31) Cyclohexane	4.98	56	1726	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7889	4.183	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9712	6.174	ug/l #	17
43) Isopropyl Acetate	5.56	43	8427	2.654	ug/l #	93
45) 1,2-Dichloropropane	6.70	63	742	0.478	ug/l #	43
48) Methyl methacrylate	6.70	41	55083	35.620	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	3926	1.816	ug/l	87
54) cis-1,3-Dichloropropene	7.42	75	20896	8.803	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	5103	2.078	ug/l #	42
59) 2-Hexanone	8.41	43	64152	37.813	ug/l #	48
76) 1,2,3-Trichloropropane	10.30	75	36274	21.652	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2319	0.549	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.30	75	36274	55.841	ug/l #	100

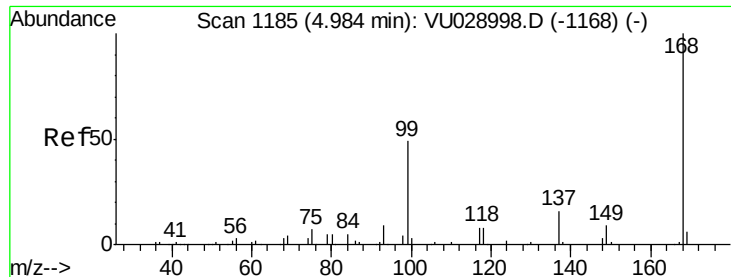
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029093.D

Acq: 09 Jan 2019 16:37

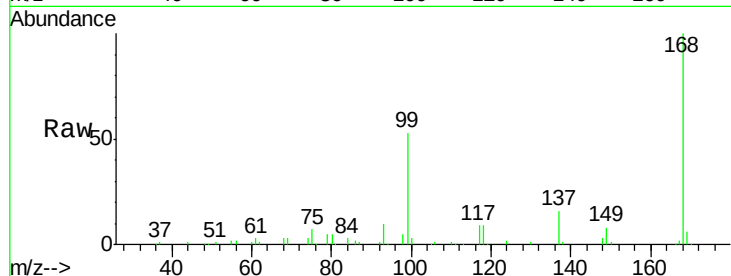
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 107735

Ion Ratio Lower Upper

168 100

99 53.4 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

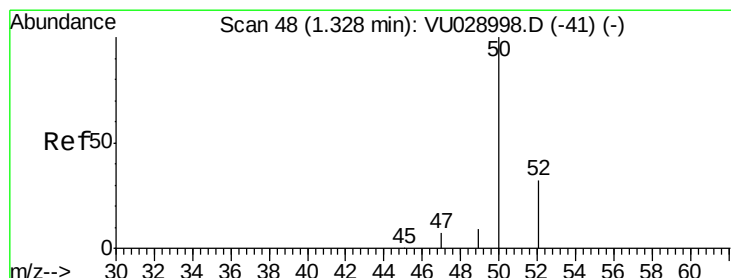
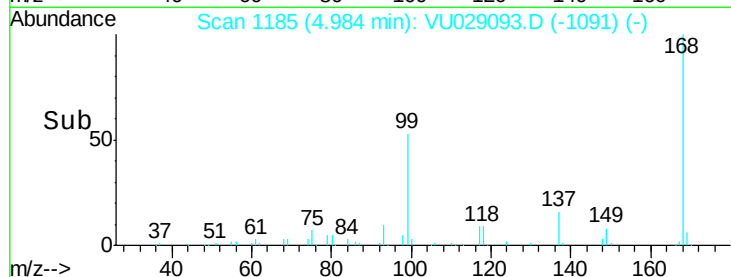
20000

10000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029093.D

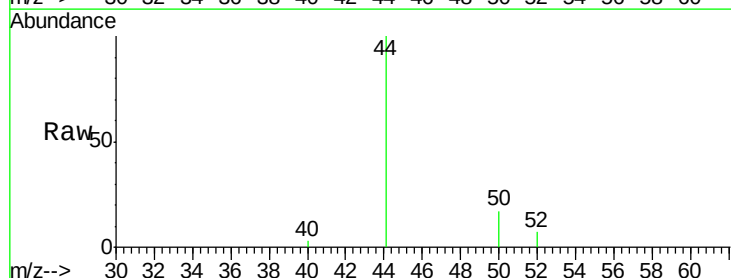
Acq: 09 Jan 2019 16:37

Tgt Ion: 50 Resp: 701

Ion Ratio Lower Upper

50 100

52 40.2 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

600

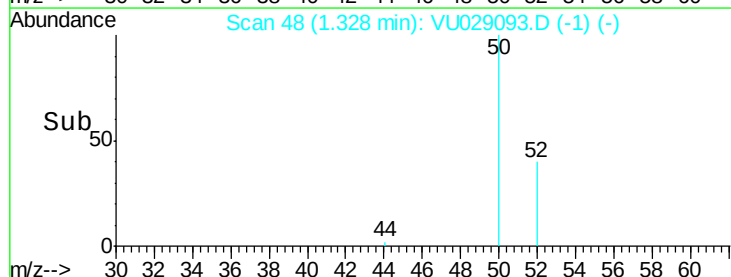
400

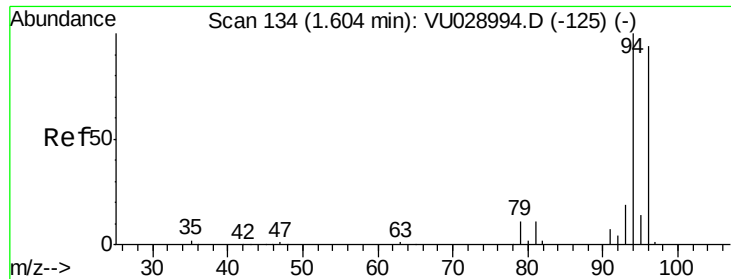
200

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 142

Delta R.T. 0.03 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

Instrument :

MSVOA_U

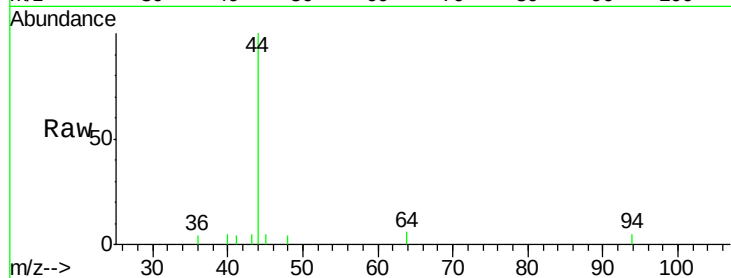
ClientSampleId :

Tot Ion: 94 Resp: 97

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

1.63

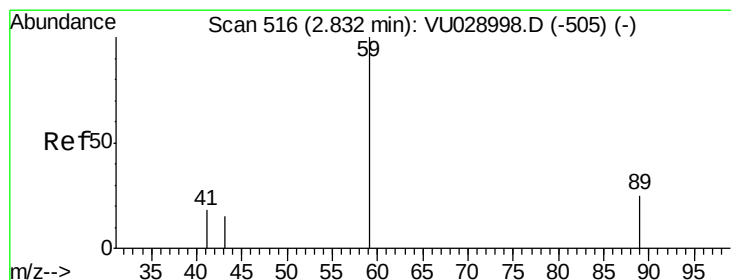
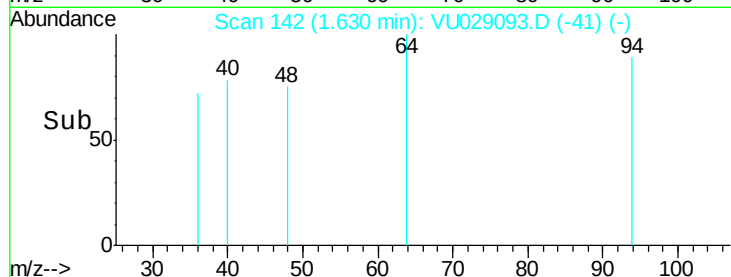
150

100

50

0

Time--> 1.61 1.62 1.63 1.64 1.65



#11

Tert butyl alcohol

Concen: 0.765 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU029093.D

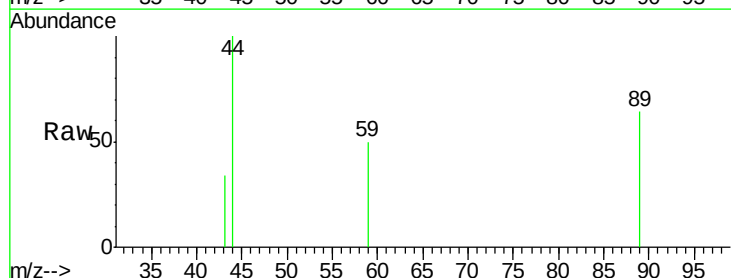
Acq: 09 Jan 2019 16:37

Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.84

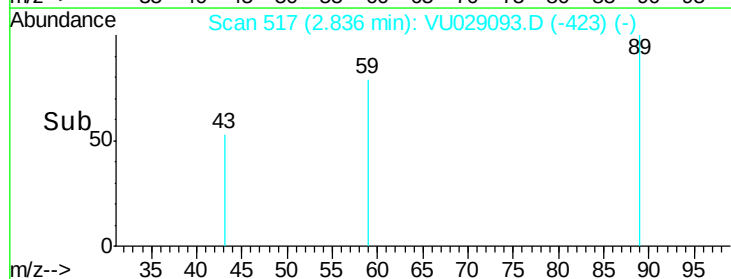
150

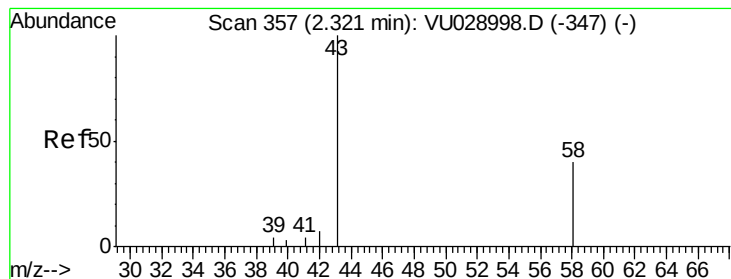
100

50

0

Time--> 2.80 2.82 2.84 2.86





#16

Acetone

Concen: 6.238 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

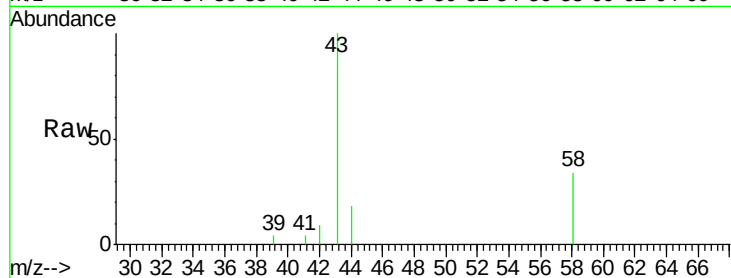
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5234

Ion Ratio Lower Upper

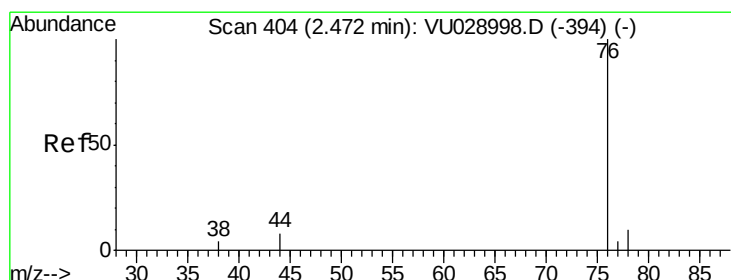
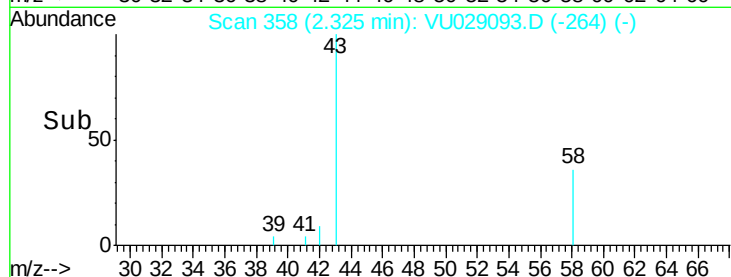
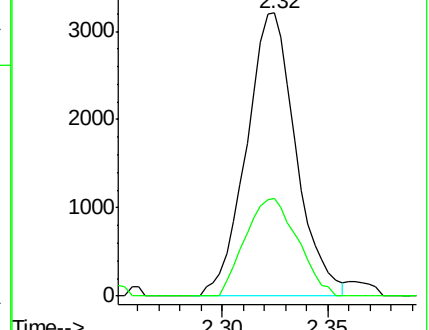
43 100

58 34.4 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VU028998.D (-347) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029093.D

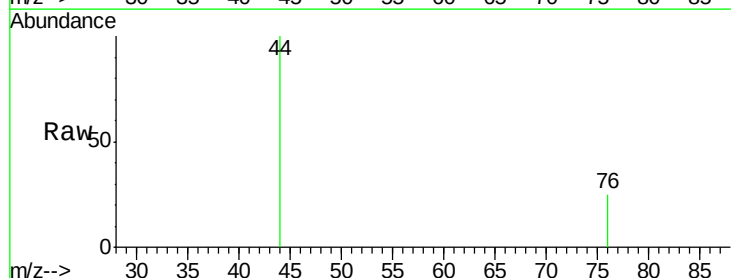
Acq: 09 Jan 2019 16:37

Tgt Ion: 76 Resp: 19

Ion Ratio Lower Upper

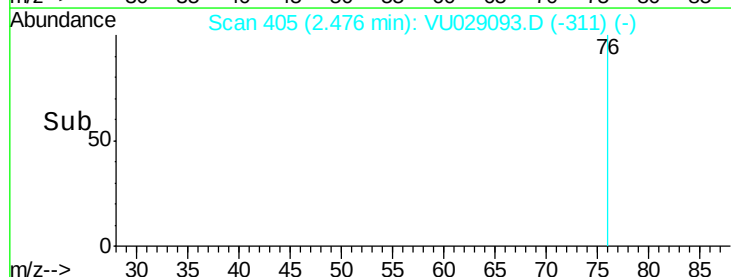
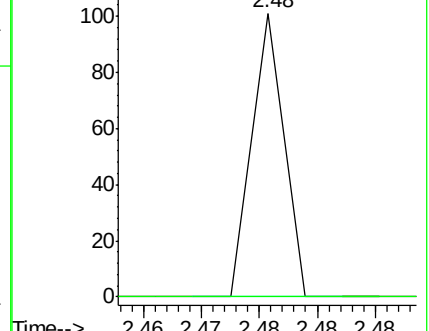
76 100

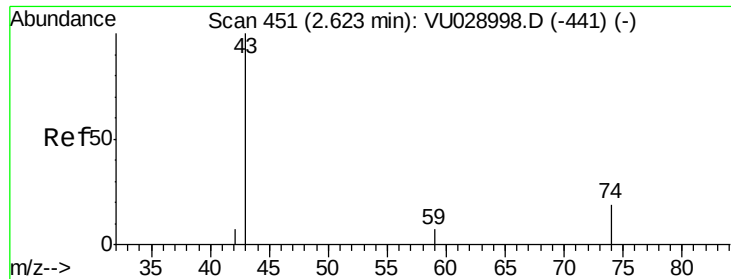
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028998.D (-394) (-)

Ion 77.90 (77.60 to 78.60): VU028998.D (-394) (-)

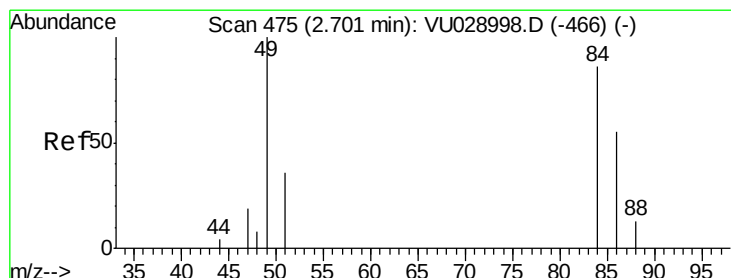
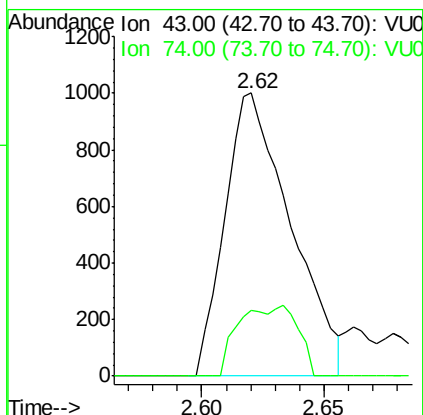
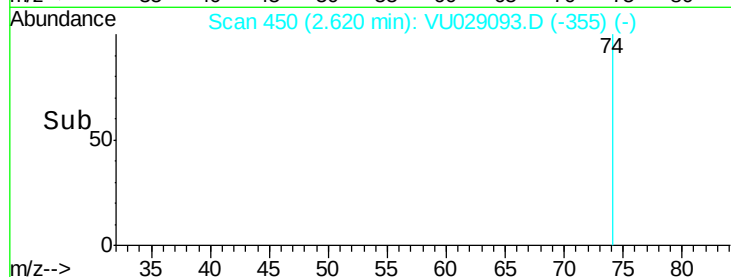
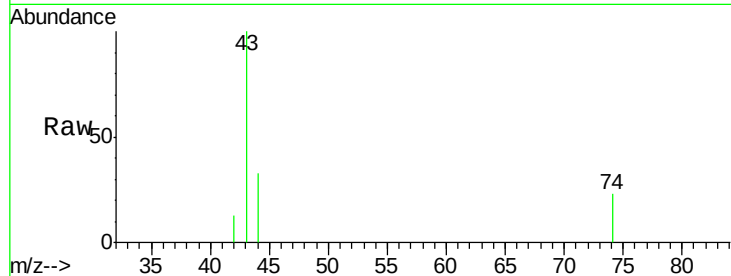




#18
Methvl Acetate
Concen: 0.961 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029093.D
Acq: 09 Jan 2019 16:37

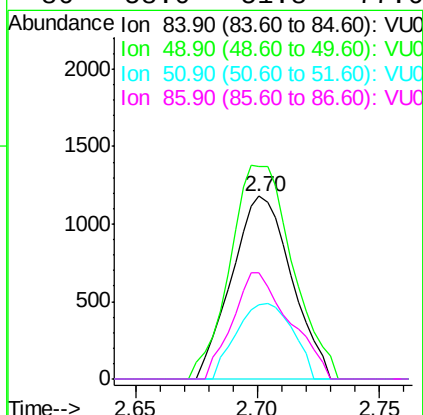
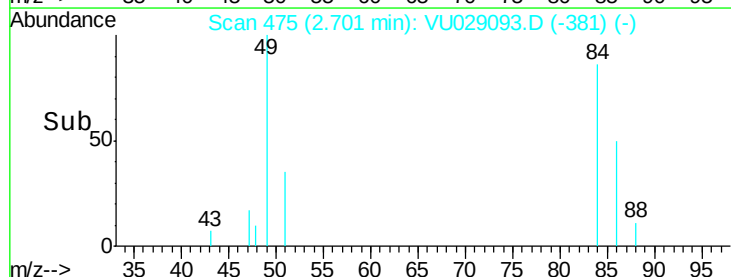
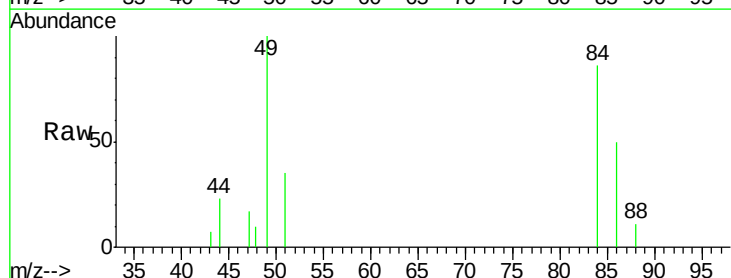
Instrument :
MSVOA_U
ClientSampleId :

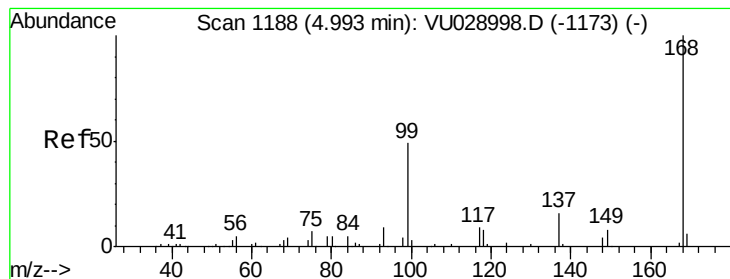
Tot Ion: 43 Resp: 1874
Ion Ratio Lower Upper
43 100
74 22.6 19.5 29.3



#20
Methylene Chloride
Concen: 1.407 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029093.D
Acq: 09 Jan 2019 16:37

Tgt Ion: 84 Resp: 2004
Ion Ratio Lower Upper
84 100
49 116.6 91.9 137.9
51 40.5 29.2 43.8
86 58.0 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

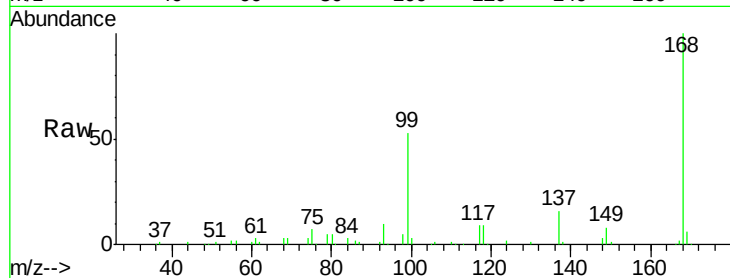
Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

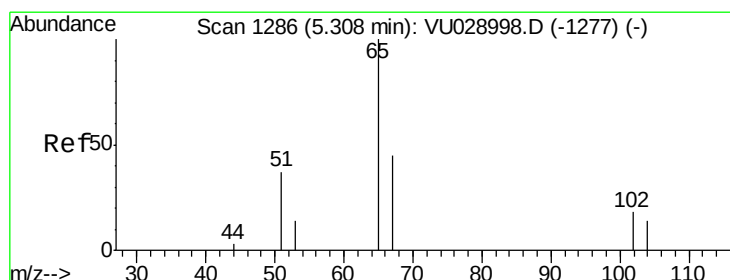
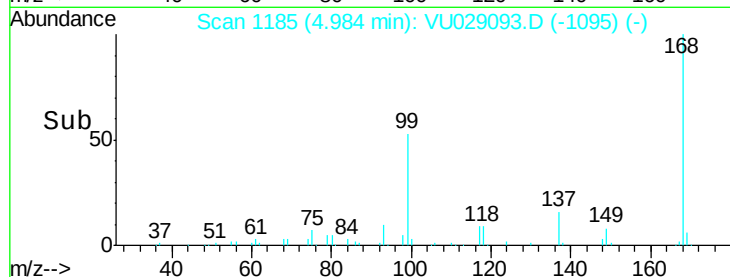
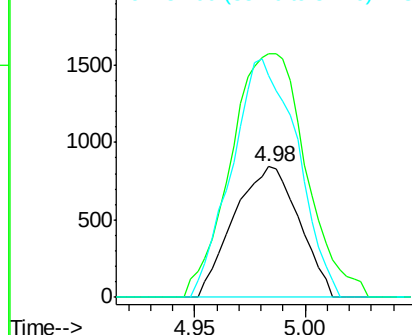
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 1726

Ion	Ratio	Lower	Upper
56	100		
69	172.1	26.7	40.1#
84	169.7	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: 56.187 ug/l

RT: 5.31 min Scan# 1286

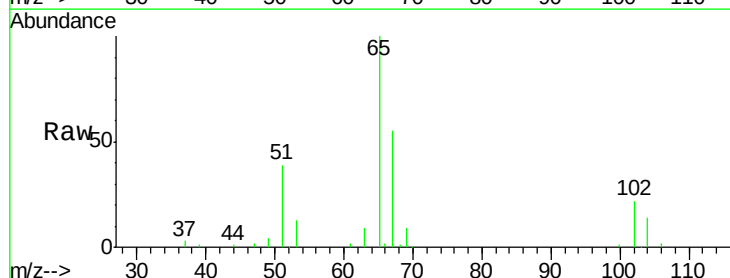
Delta R.T. 0.00 min

Lab File: VU029093.D

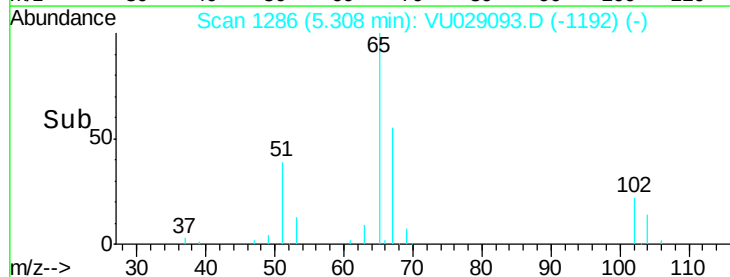
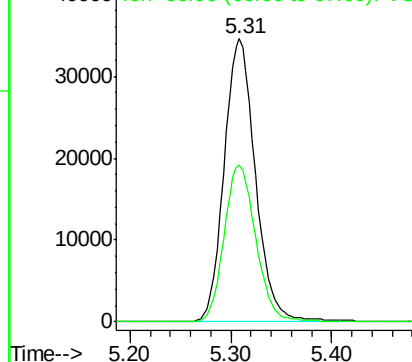
Acq: 09 Jan 2019 16:37

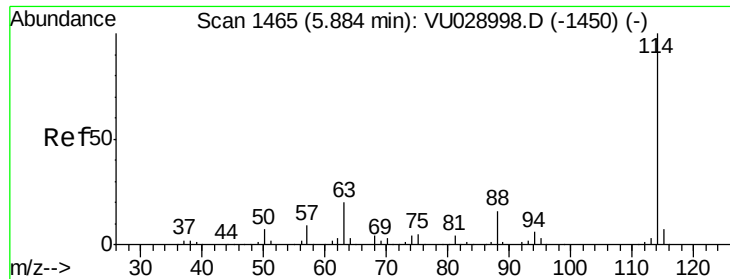
Tgt Ion: 65 Resp: 74831

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

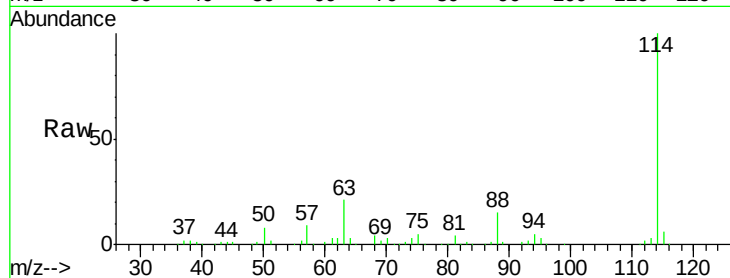




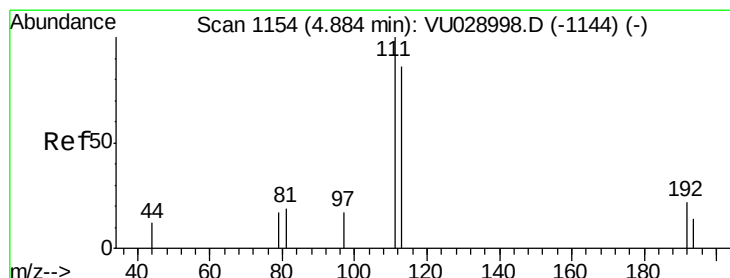
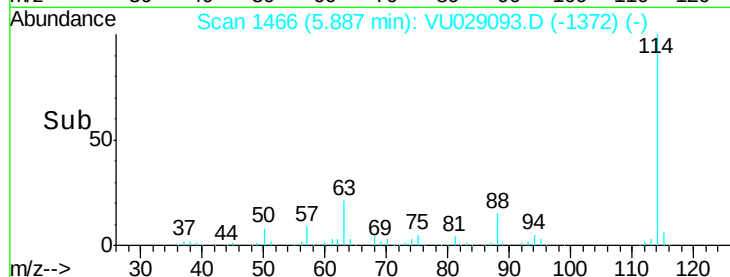
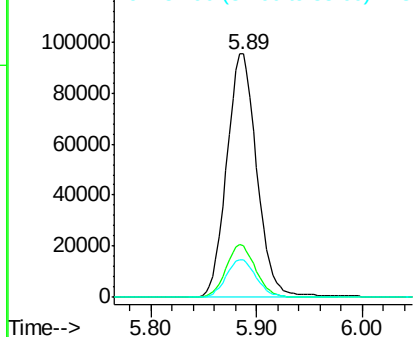
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU029093.D
 Acq: 09 Jan 2019 16:37

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 188695
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.2
 88 15.2 0.0 30.4

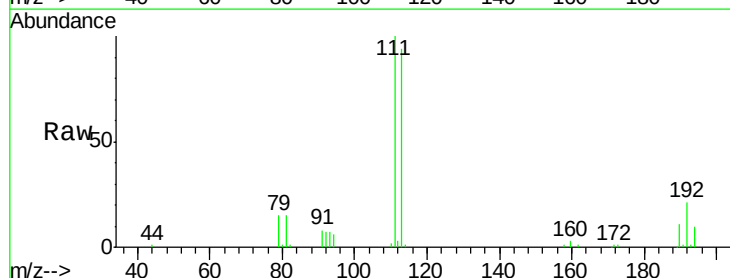


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

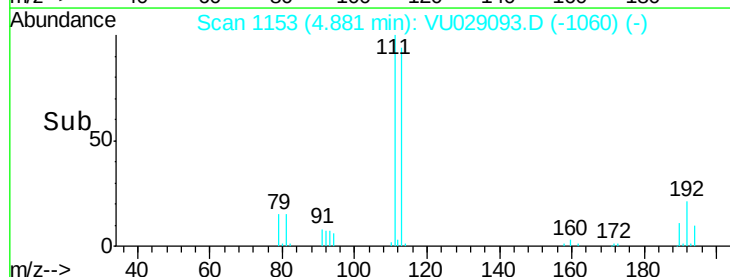
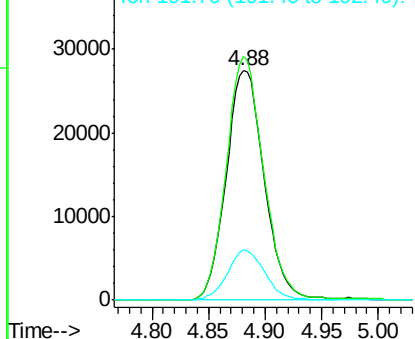


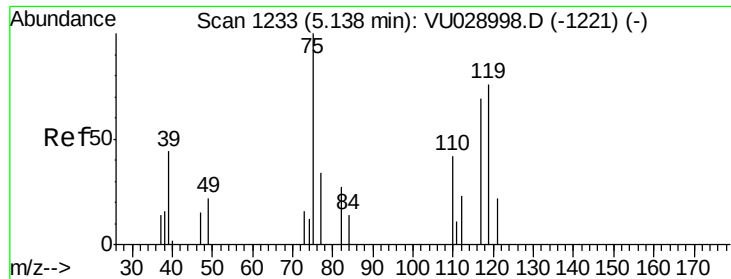
#35
 Dibromofluoromethane
 Concen: 52.606 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029093.D
 Acq: 09 Jan 2019 16:37

Tgt Ion:113 Resp: 64347
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.4 122.2
 192 21.4 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

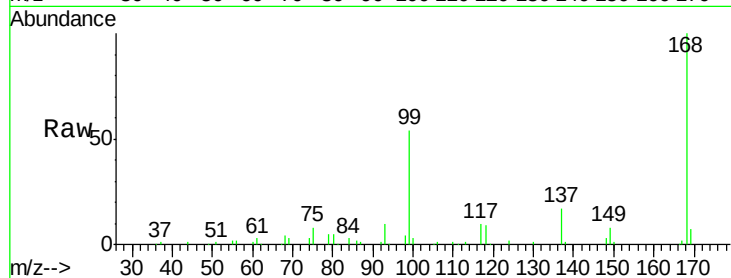




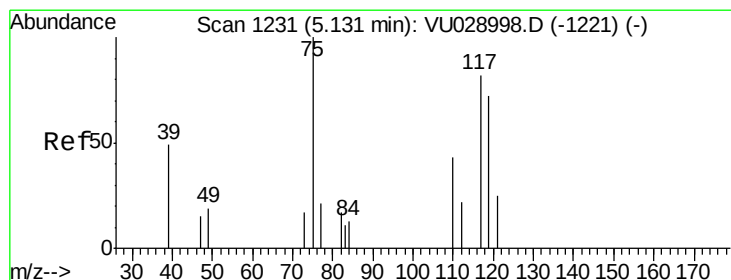
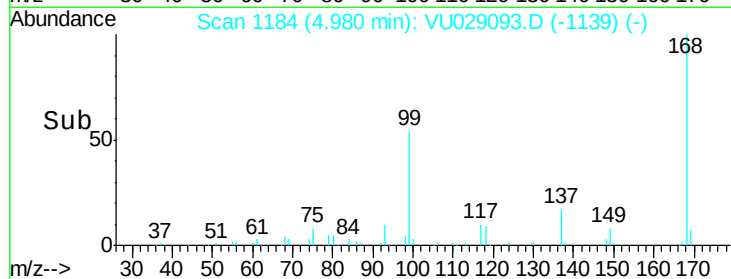
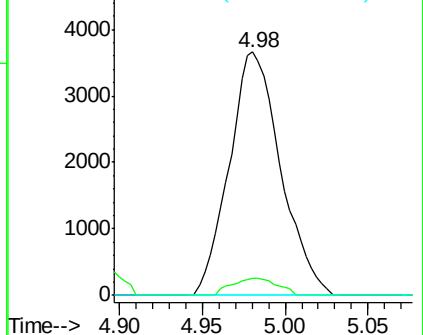
#36
 1,1-Dichloropropene
 Concen: 4.183 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029093.D
 Acq: 09 Jan 2019 16:37

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 7889
 Ion Ratio Lower Upper
 75 100
 110 6.2 18.4 55.4#
 77 0.0 25.1 37.7#

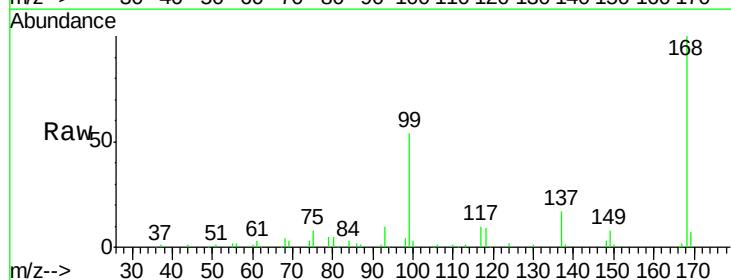


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

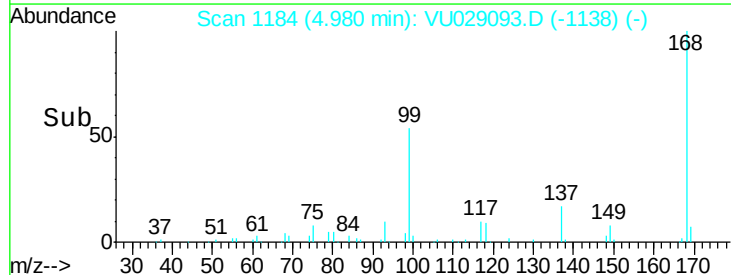
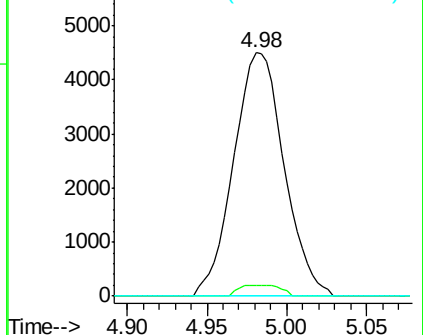


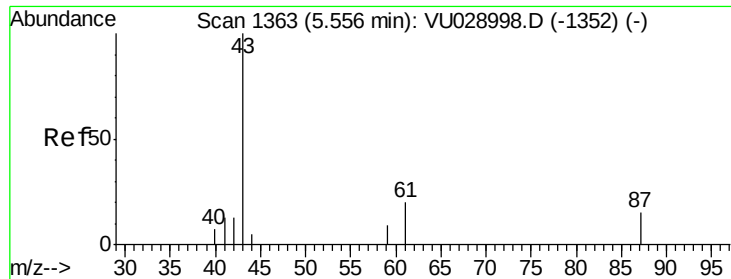
#38
 Carbon Tetrachloride
 Concen: 6.174 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029093.D
 Acq: 09 Jan 2019 16:37

Tgt Ion: 117 Resp: 9712
 Ion Ratio Lower Upper
 117 100
 119 4.4 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: 2.654 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

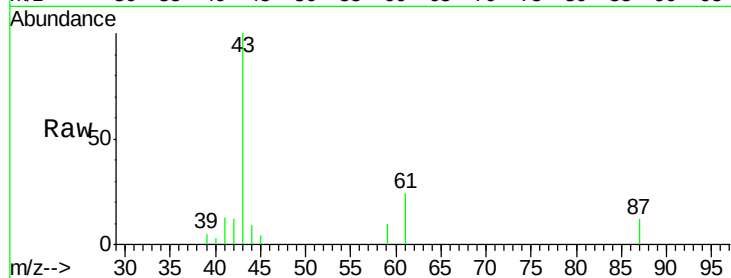
Tot Ion: 43 Resp: 8427

Ion Ratio Lower Upper

43 100

61 18.8 17.8 26.6

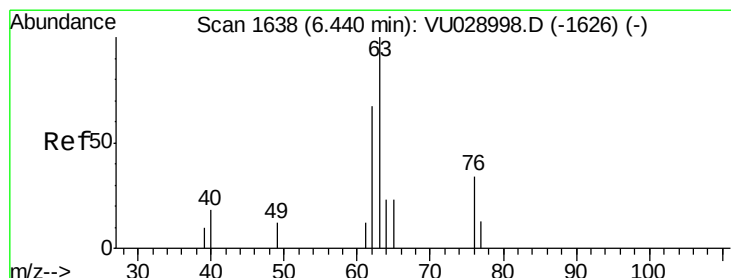
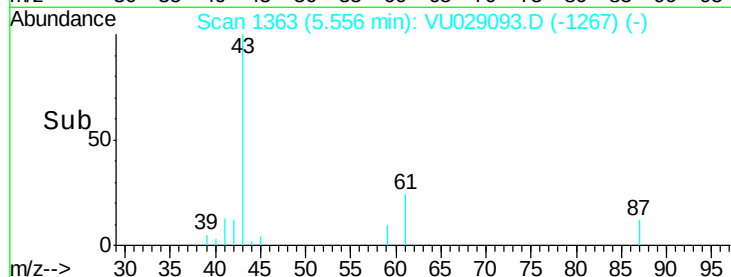
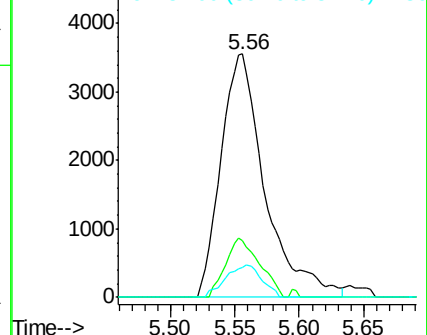
87 10.9 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#45

1,2-Dichloropropane

Concen: 0.478 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029093.D

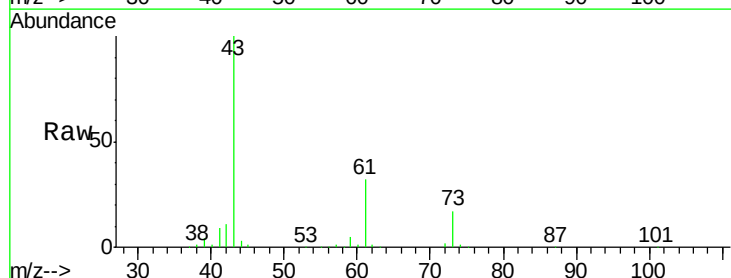
Acq: 09 Jan 2019 16:37

Tgt Ion: 63 Resp: 742

Ion Ratio Lower Upper

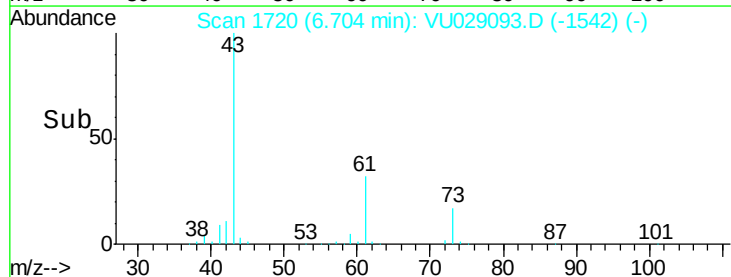
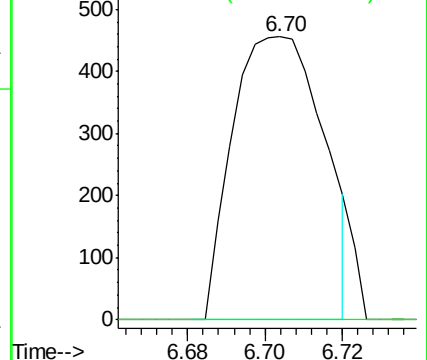
63 100

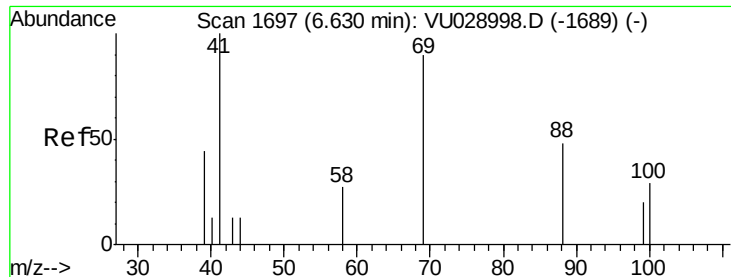
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

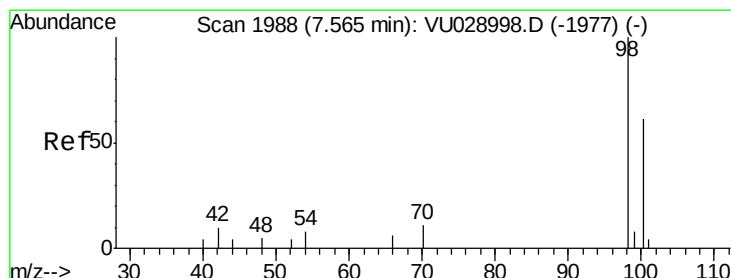
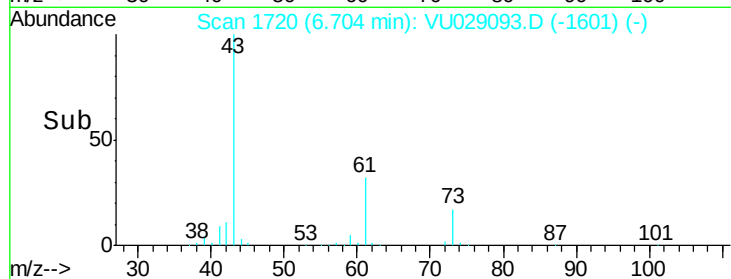
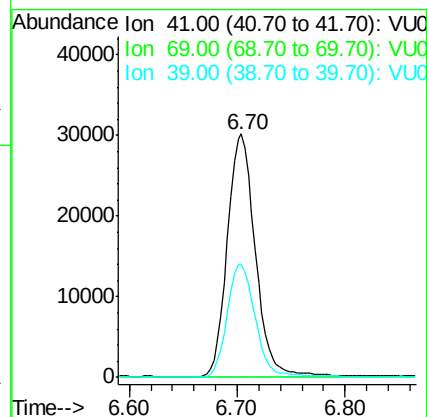
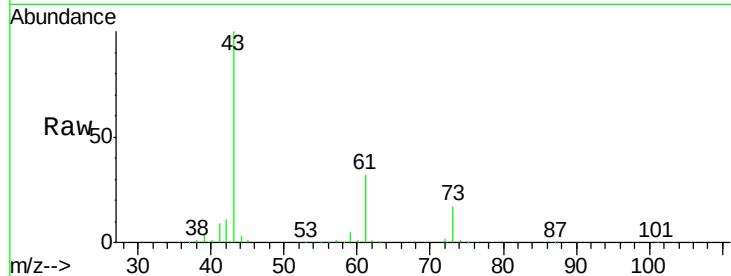




#48
Methvl methacrylate
Concen: 35.620 ug/l
RT: 6.70 min Scan# 1720
Delta R.T. 0.08 min
Lab File: VU029093.D
Acq: 09 Jan 2019 16:37

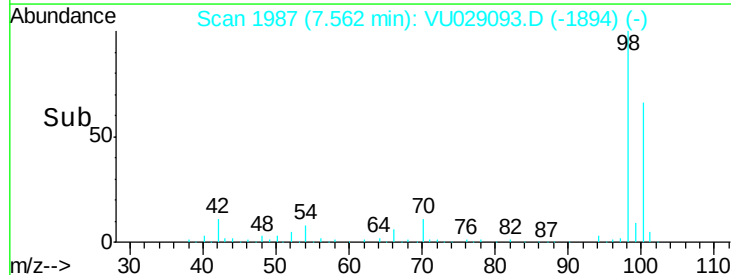
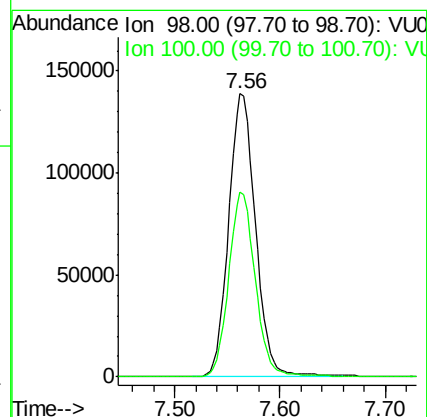
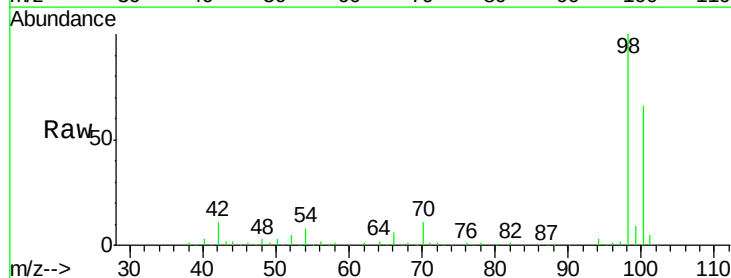
Instrument :
MSVOA_U
ClientSampleId :

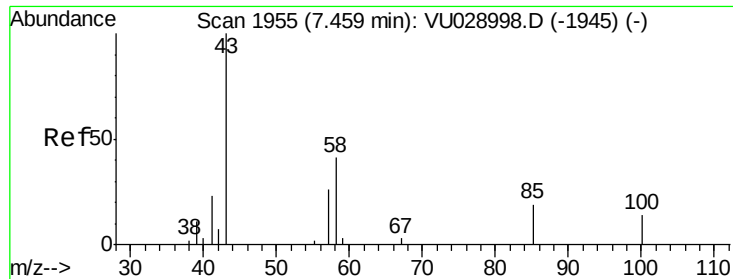
Tot Ion: 41 Resp: 55083
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 46.2 39.6 59.4



#50
Toluene-d8
Concen: 50.722 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029093.D
Acq: 09 Jan 2019 16:37

Tgt Ion: 98 Resp: 244934
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 1.816 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

Instrument :

MSVOA_U

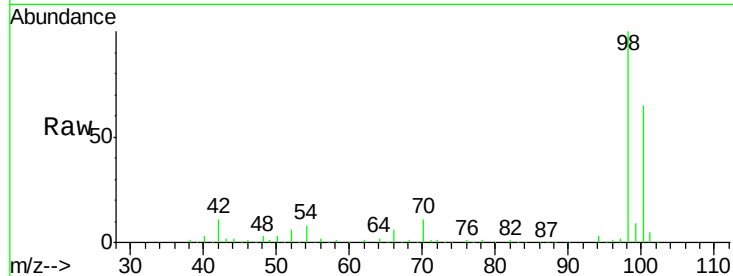
ClientSampleId :

Tot Ion: 43 Resp: 3926

Ion Ratio Lower Upper

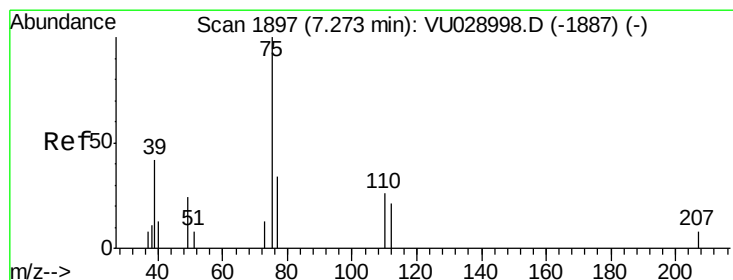
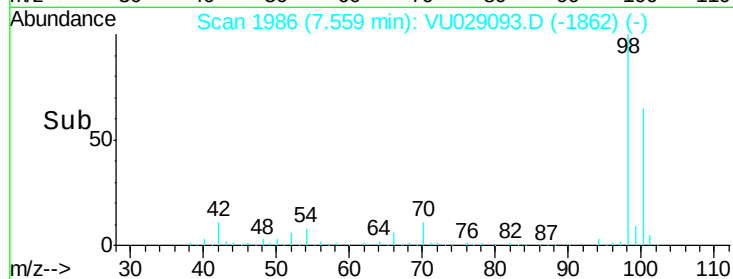
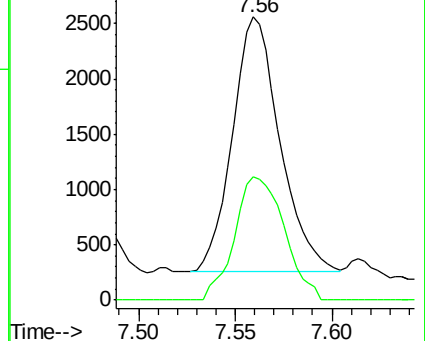
43 100

58 50.4 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: 8.803 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

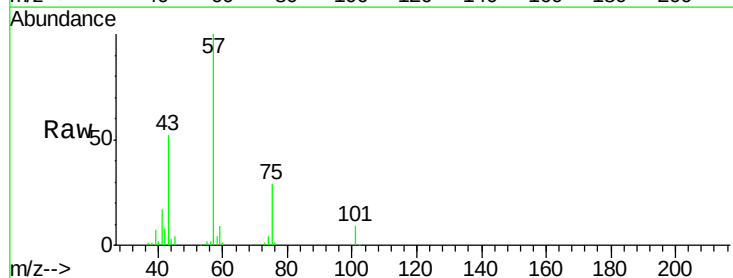
Tgt Ion: 75 Resp: 20896

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

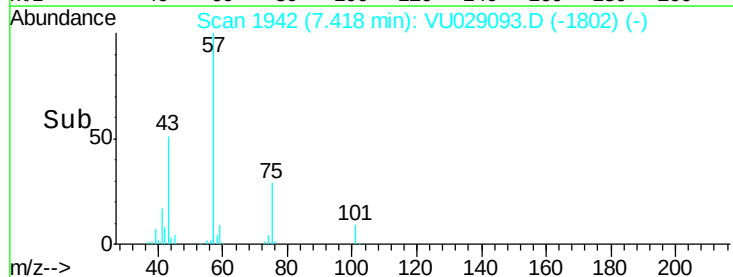
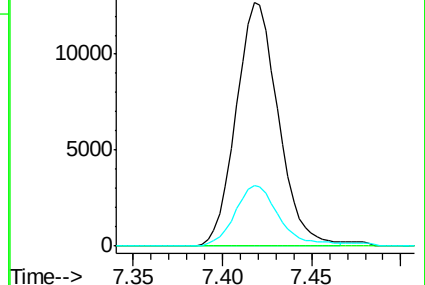
39 24.9 32.2 48.4#

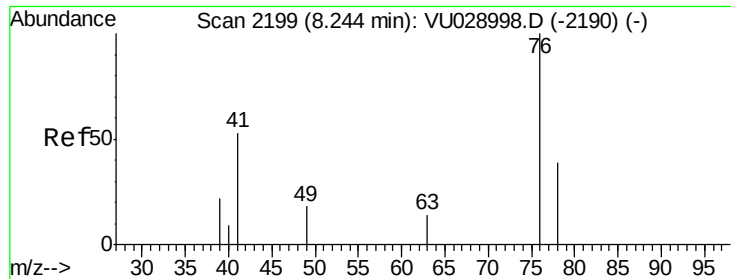


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 2.078 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

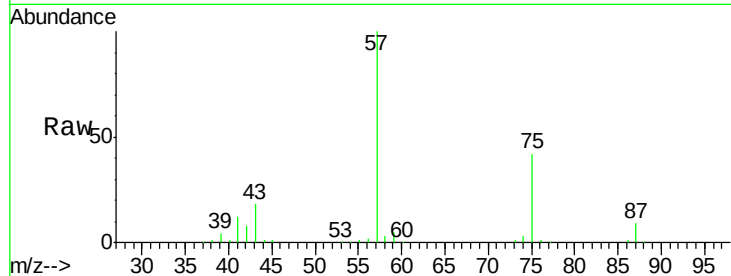
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 76 Resp: 5103

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VU028998.D (-2190) (-)

Ion 77.90 (77.60 to 78.60): VU028998.D (-2190) (-)

8.41

3000

2000

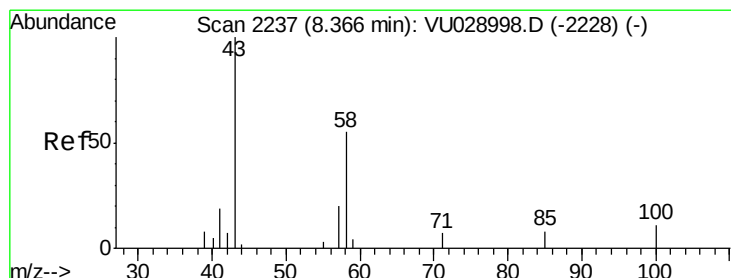
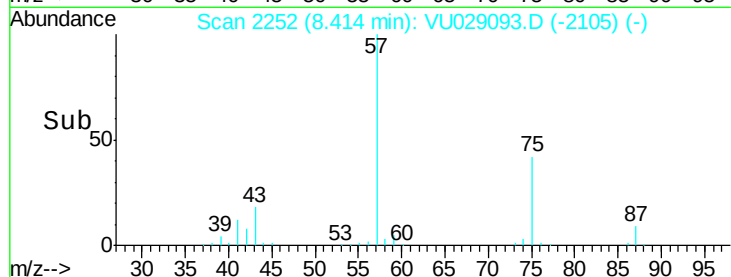
1000

0

8.35

8.40

8.45



#59

2-Hexanone

Concen: 37.813 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.05 min

Lab File: VU029093.D

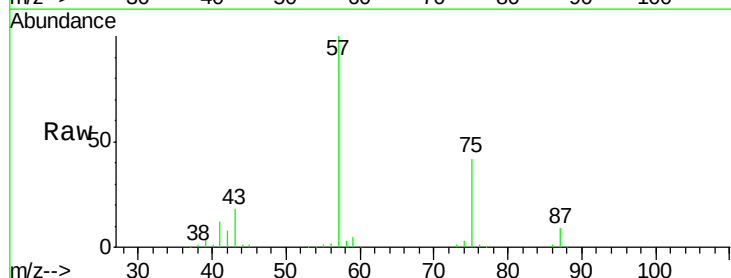
Acq: 09 Jan 2019 16:37

Tgt Ion: 43 Resp: 64152

Ion Ratio Lower Upper

43 100

58 20.7 29.8 89.4#



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-2228) (-)

Ion 58.00 (57.70 to 58.70): VU028998.D (-2228) (-)

8.41

40000

30000

20000

10000

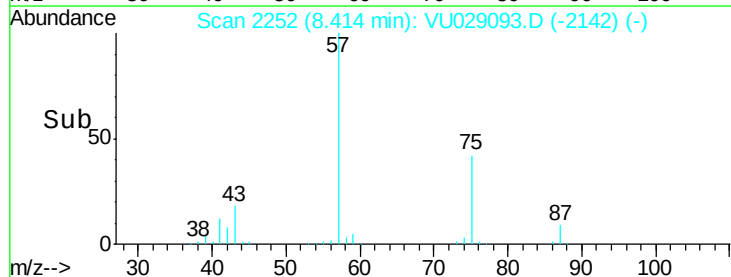
0

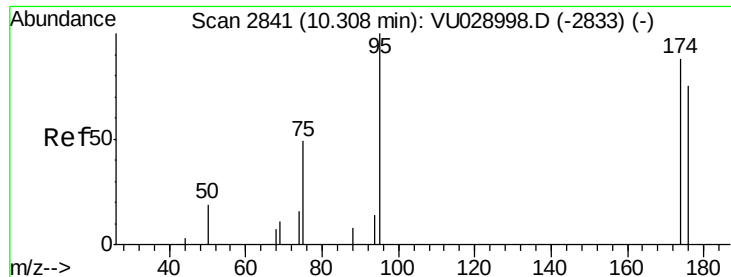
8.35

8.40

8.45

8.50

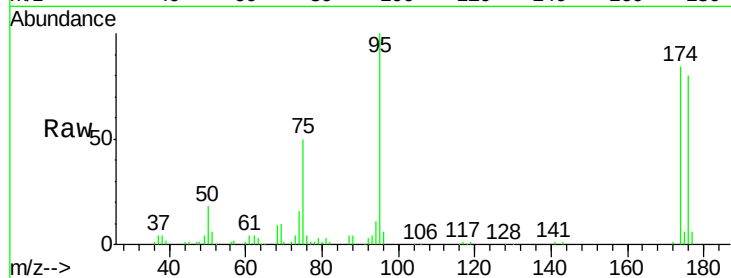




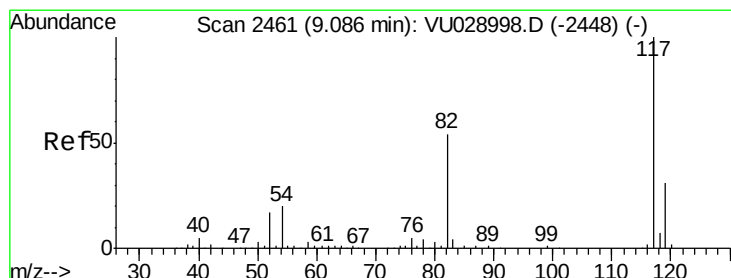
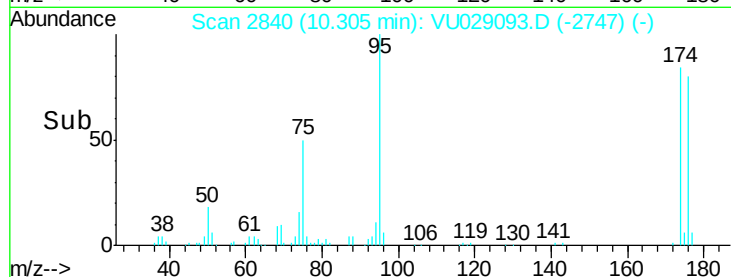
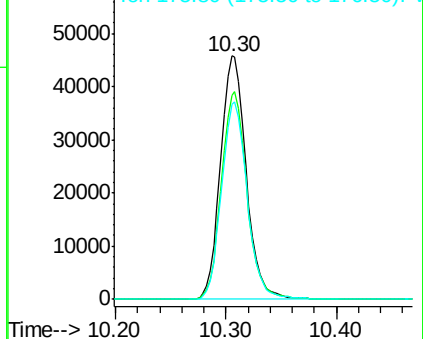
#62
4-Bromofluorobenzene
Concen: 42.664 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029093.D
Acq: 09 Jan 2019 16:37

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 74040
Ion Ratio Lower Upper
95 100
174 85.3 0.0 170.6
176 81.1 0.0 165.0

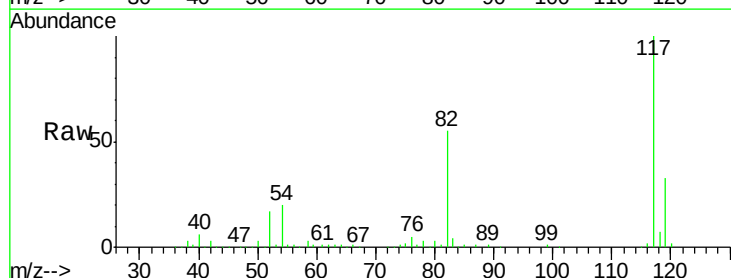


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)
Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)
Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

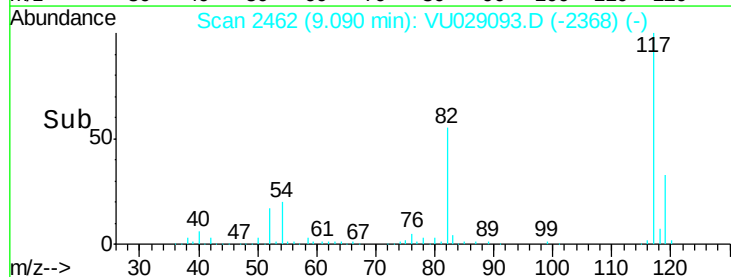
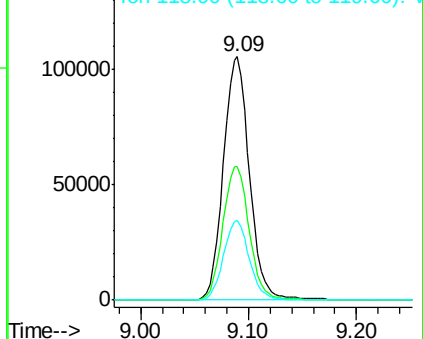


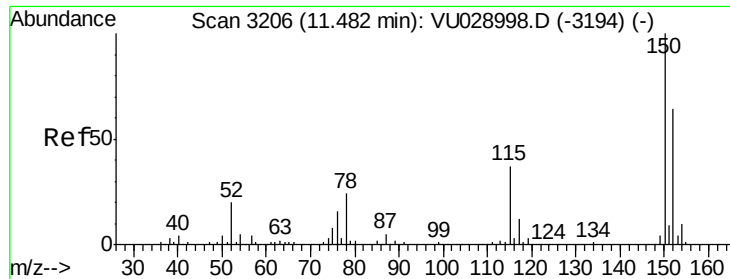
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029093.D
Acq: 09 Jan 2019 16:37

Tgt Ion: 117 Resp: 177533
Ion Ratio Lower Upper
117 100
82 55.1 43.9 65.9
119 32.8 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: VU029093.D

Acq: 09 Jan 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

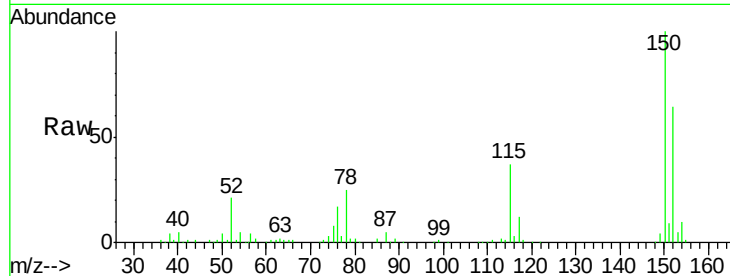
Tot Ion:152 Resp: 68377

Ion Ratio Lower Upper

152 100

115 57.0 40.1 120.3

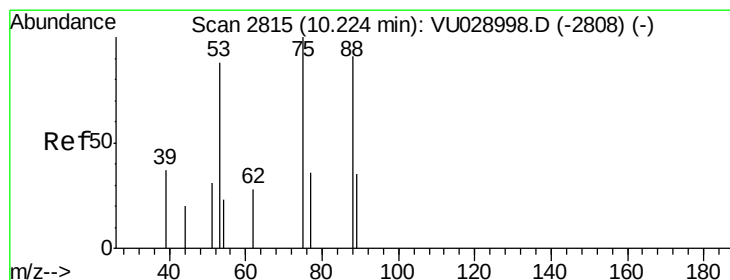
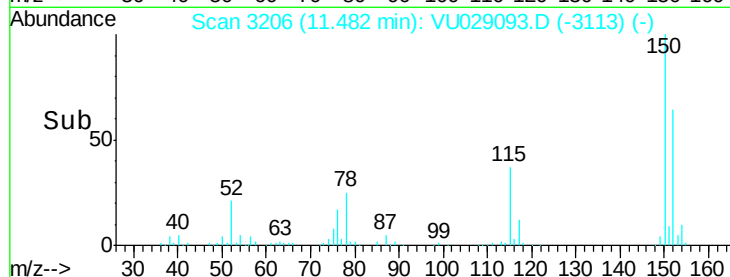
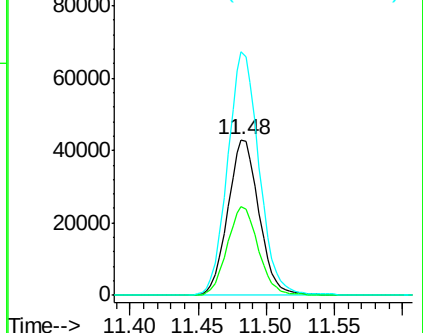
150 158.0 0.0 345.2



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: 21.652 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029093.D

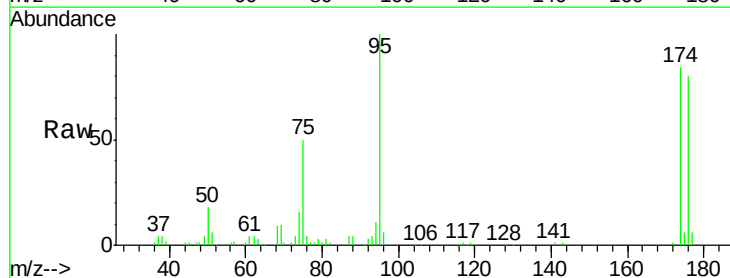
Acq: 09 Jan 2019 16:37

Tgt Ion: 75 Resp: 36274

Ion Ratio Lower Upper

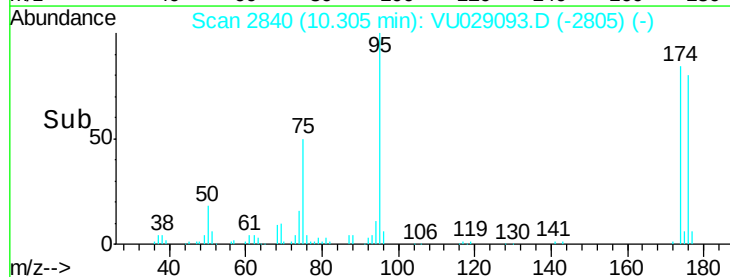
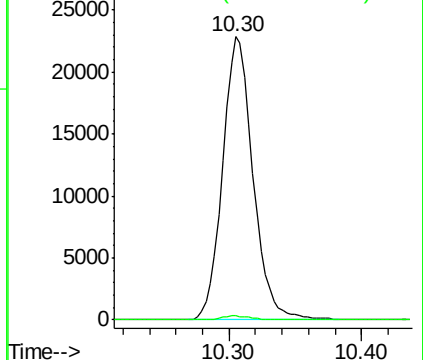
75 100

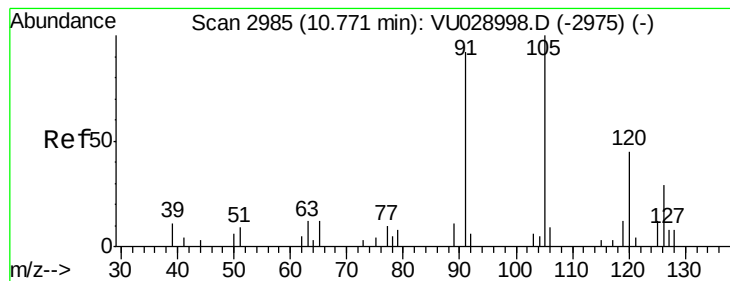
77 1.3 20.9 62.8#



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: 0.549 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

Instrument :

MSVOA_U

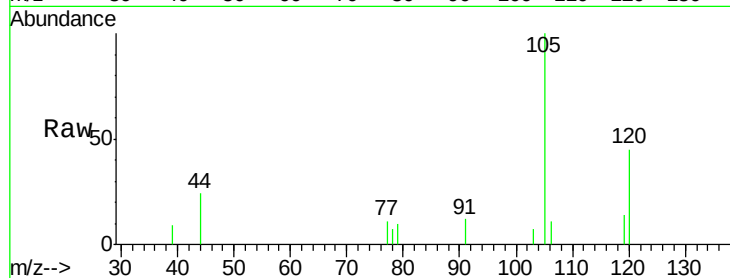
ClientSampled :

Tot Ion:105 Resp: 2319

Ion Ratio Lower Upper

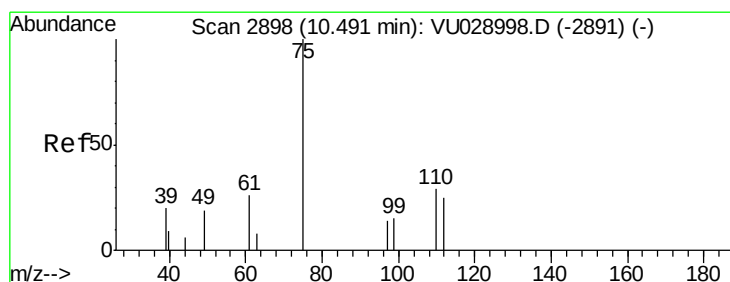
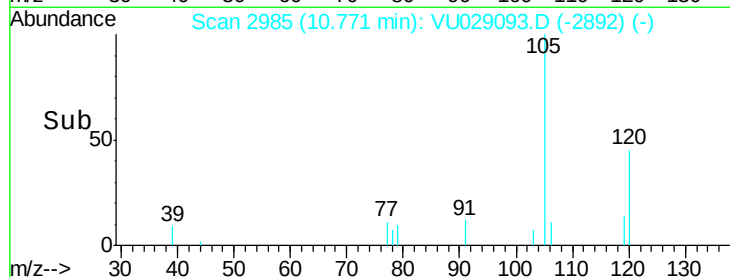
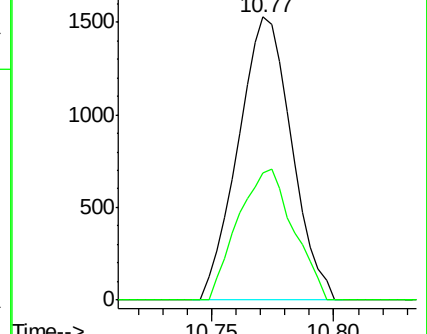
105 100

120 48.0 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: 55.841 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029093.D

Acq: 09 Jan 2019 16:37

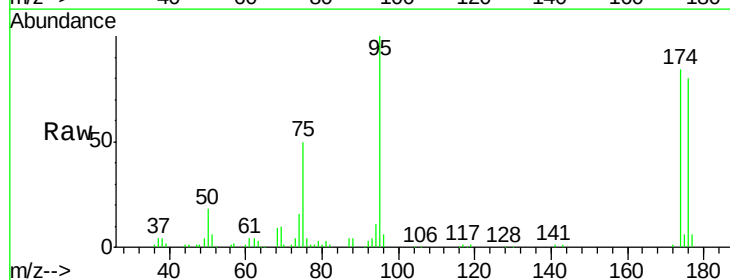
Tgt Ion: 75 Resp: 36274

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

