

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029098.D
 Acq On : 09 Jan 2019 18:39
 Operator : MD/SY
 Sample : PB116248ZHE#13
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:07:46 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	107447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	187921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	178145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69499	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	73958	55.68	ug/l	0.00
Spiked Amount			Recovery	=	111.36%	
35) Dibromofluoromethane	4.88	113	64426	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
50) Toluene-d8	7.56	98	244935	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	10.30	95	75783	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	

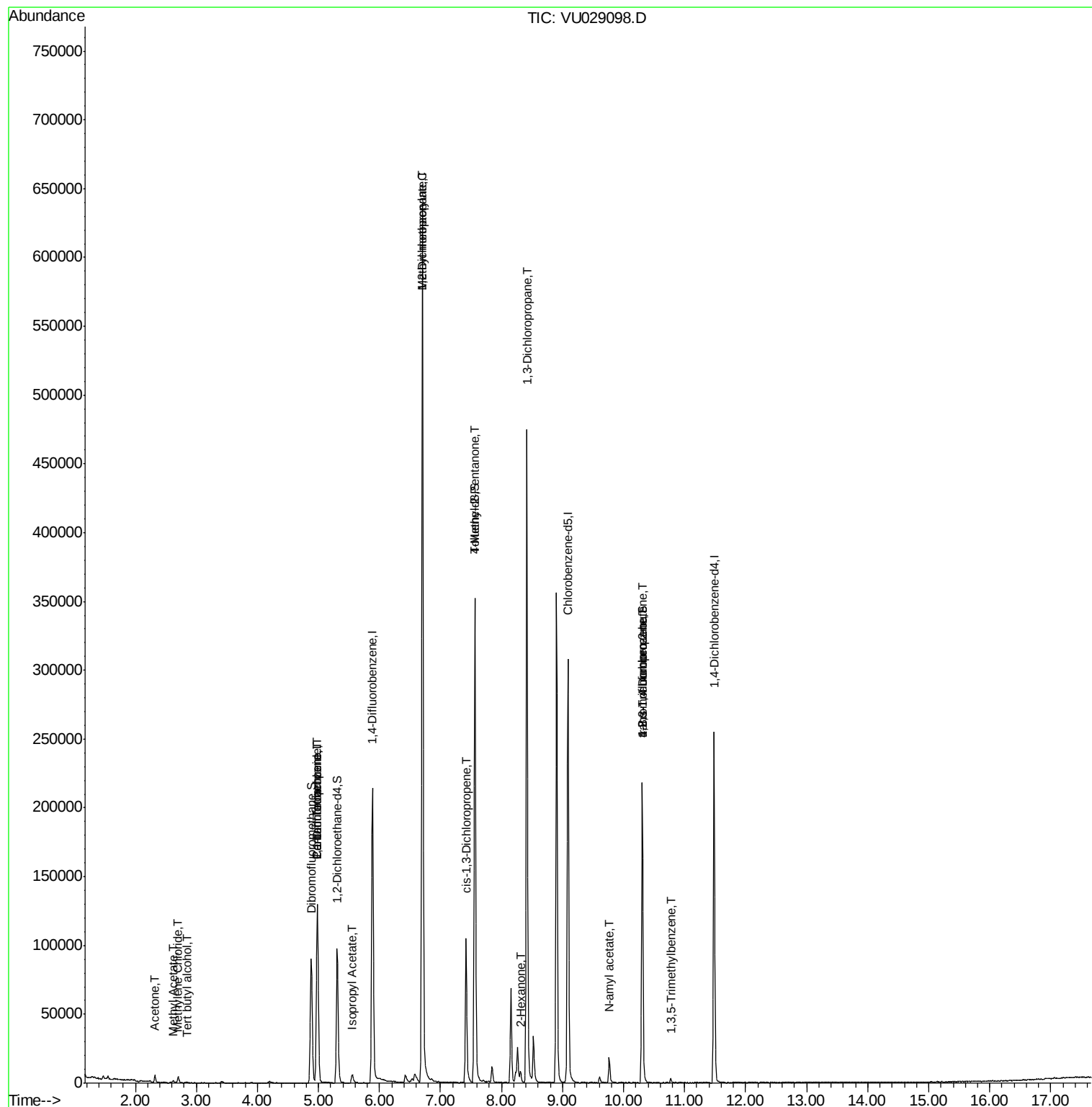
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	837	Below Cal		96
11) Tert butyl alcohol	2.84	59	293	0.868	ug/l #	73
16) Acetone	2.32	43	5483	6.553	ug/l	97
18) Methyl Acetate	2.62	43	2050	1.054	ug/l #	88
20) Methylene Chloride	2.70	84	1915	1.348	ug/l	88
31) Cyclohexane	4.98	56	1831	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7904	4.208	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9135	5.831	ug/l #	19
43) Isopropyl Acetate	5.55	43	8170	2.583	ug/l #	89
45) 1,2-Dichloropropane	6.71	63	776	0.502	ug/l #	43
48) Methyl methacrylate	6.70	41	53933	35.020	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4134	1.921	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	20703	8.758	ug/l #	62
57) 1,3-Dichloropropane	8.41	76	4788	1.958	ug/l #	42
59) 2-Hexanone	8.31	43	6424	3.802	ug/l #	21
74) N-amyl acetate	9.77	43	6207	2.800	ug/l #	47
76) 1,2,3-Trichloropropane	10.30	75	35671	20.948	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2260	0.526	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.30	75	35671	54.026	ug/l #	100

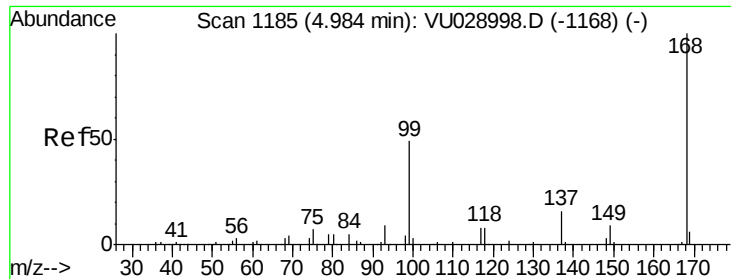
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 04 02:22:53 2019
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: VU029098.D

Acq: 09 Jan 2019 18:39

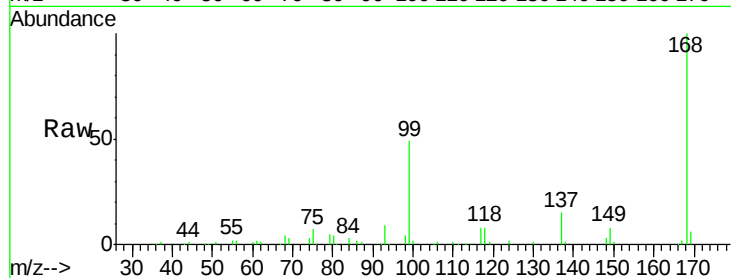
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 107447

Ion Ratio Lower Upper

168 100

99 49.4 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

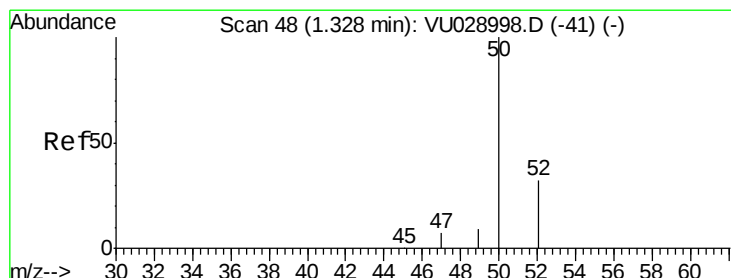
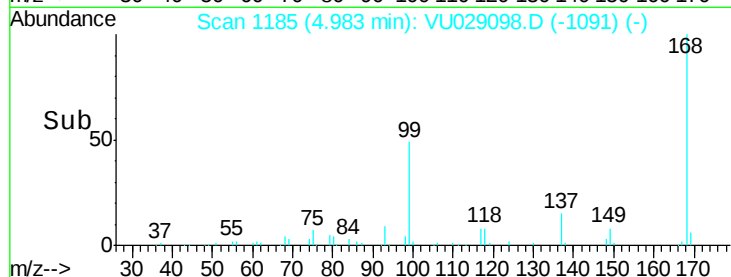
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029098.D

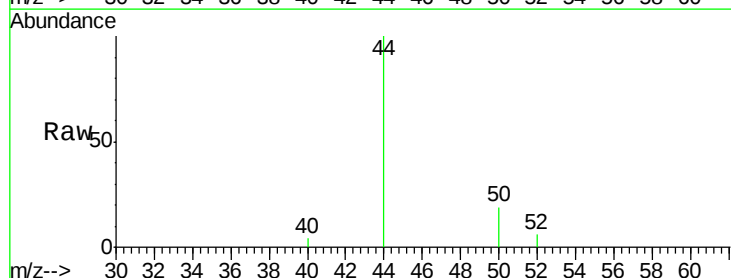
Acq: 09 Jan 2019 18:39

Tgt Ion: 50 Resp: 837

Ion Ratio Lower Upper

50 100

52 30.4 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) (-)

1.33

800

600

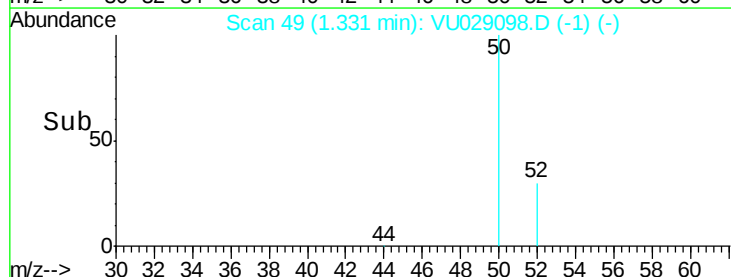
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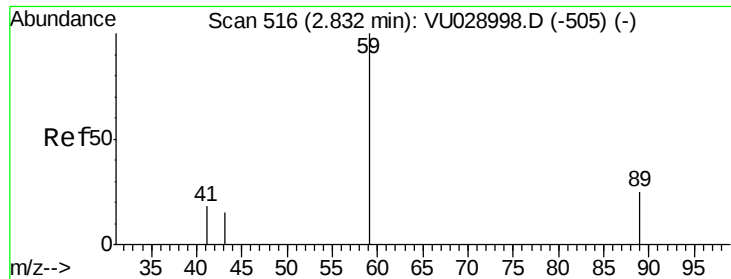
200

0

1.30 1.32 1.34 1.36 1.38

Time-->

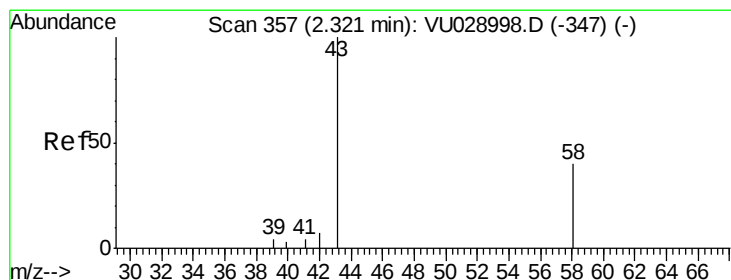
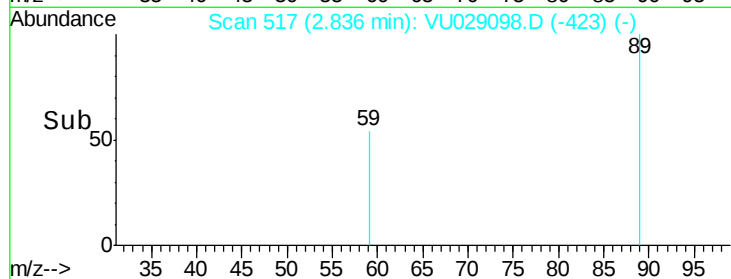
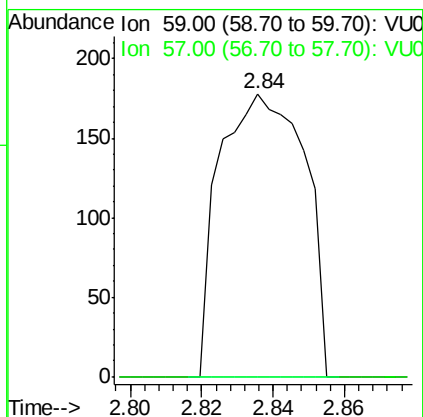
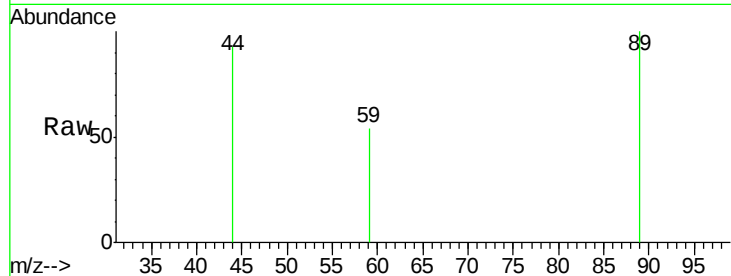




#11
Tert butvl alcohol
Concen: 0.868 ug/l
RT: 2.84 min Scan# 517
Delta R.T. 0.00 min
Lab File: VU029098.D
Acq: 09 Jan 2019 18:39

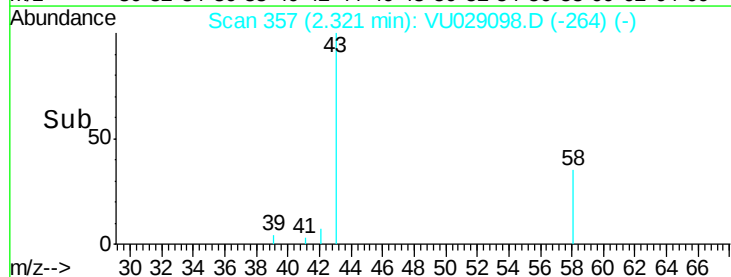
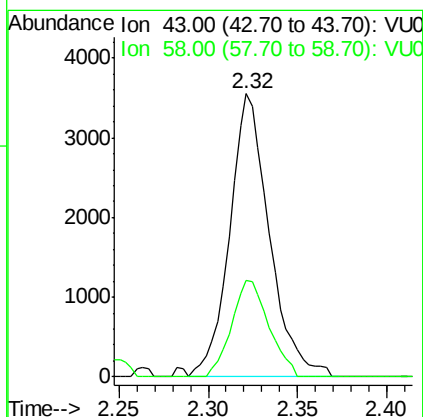
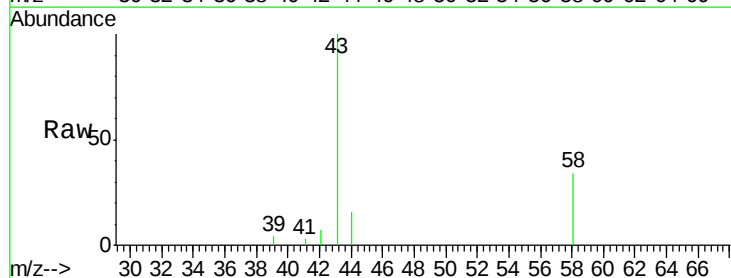
Instrument :
MSVOA_U
ClientSampleId :

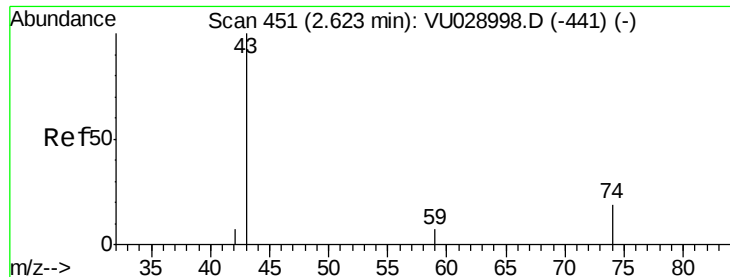
Tot Ion: 59 Resp: 293
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 6.553 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU029098.D
Acq: 09 Jan 2019 18:39

Tgt Ion: 43 Resp: 5483
Ion Ratio Lower Upper
43 100
58 34.1 28.6 42.8

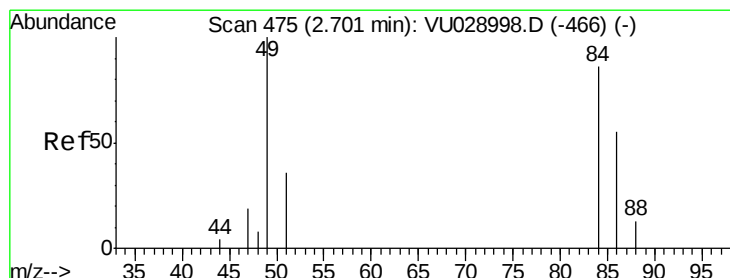
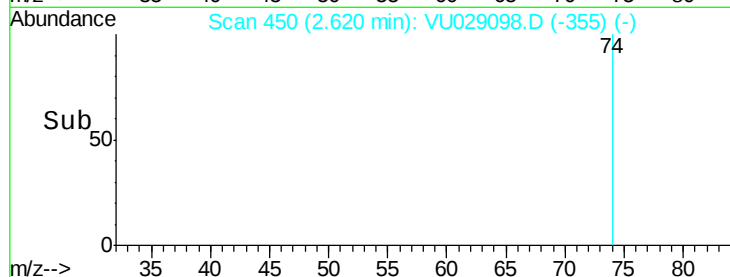
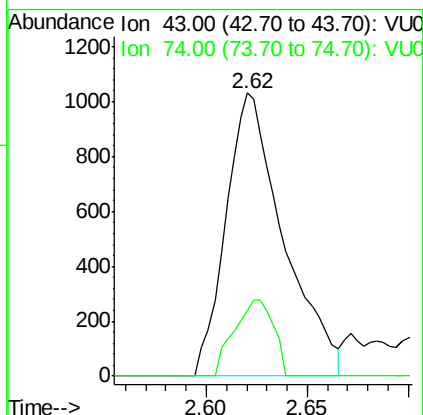
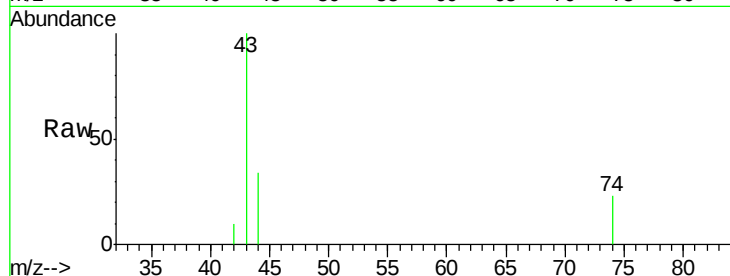




#18
Methyl Acetate
Concen: 1.054 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029098.D
Acq: 09 Jan 2019 18:39

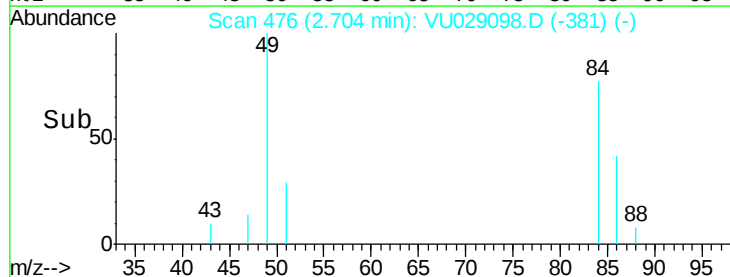
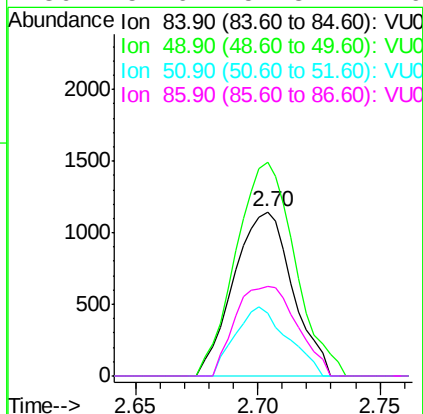
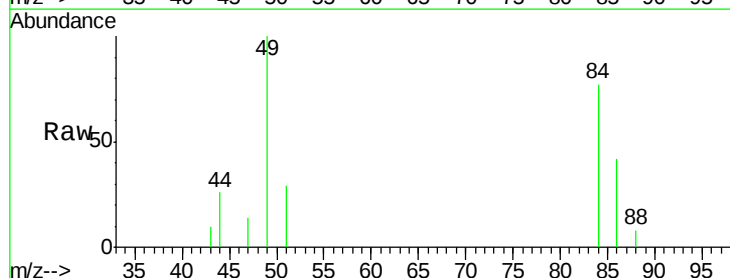
Instrument :
MSVOA_U
ClientSampleId :

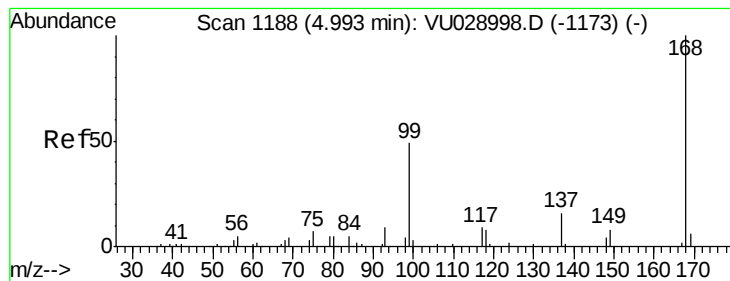
Tot Ion: 43 Resp: 2050
Ion Ratio Lower Upper
43 100
74 18.5 19.5 29.3#



#20
Methylene Chloride
Concen: 1.348 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029098.D
Acq: 09 Jan 2019 18:39

Tgt Ion: 84 Resp: 1915
Ion Ratio Lower Upper
84 100
49 130.2 91.9 137.9
51 37.9 29.2 43.8
86 54.6 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

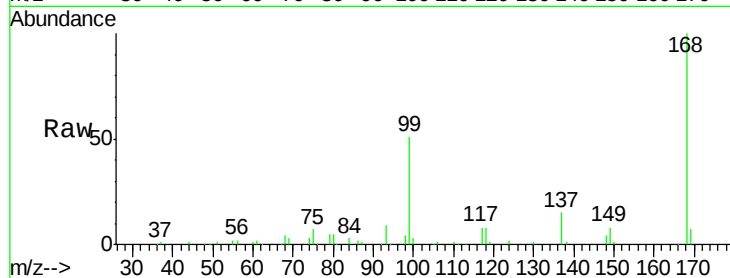
Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

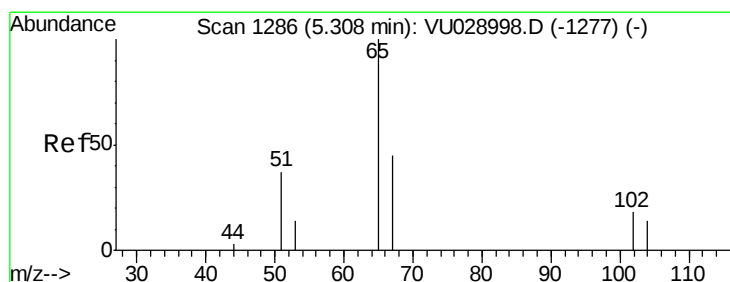
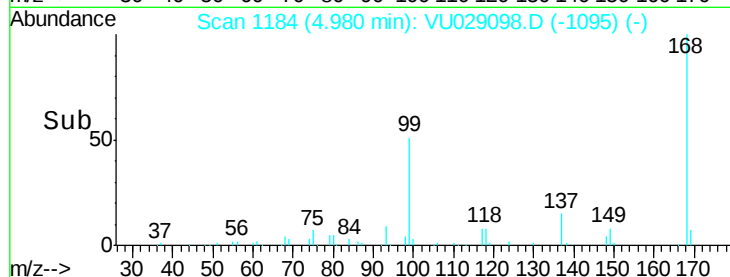
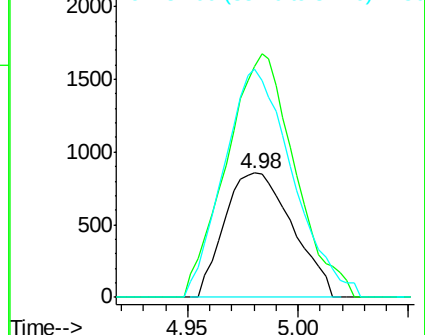
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 1831

Ion	Ratio	Lower	Upper
56	100		
69	167.4	26.7	40.1#
84	170.9	65.7	98.5#



Abundance Ion 56.00 (55.70 to 56.70): VU028998.D (-1173) (-)



#33

1,2-Dichloroethane-d4

Concen: 55.681 ug/l

RT: 5.31 min Scan# 1286

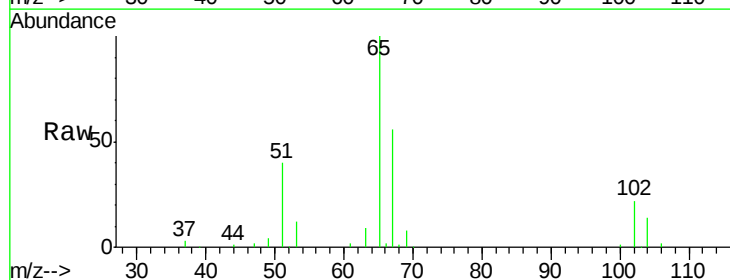
Delta R.T. 0.00 min

Lab File: VU029098.D

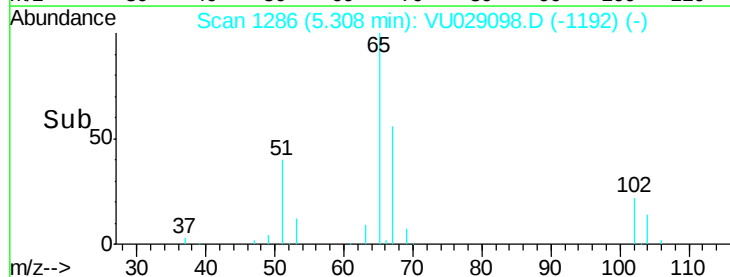
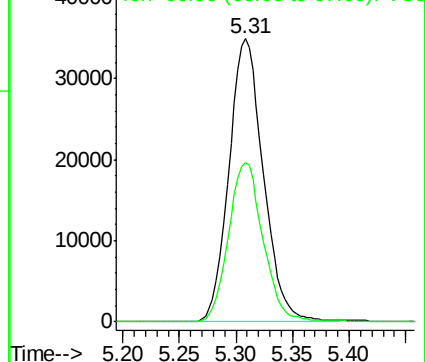
Acq: 09 Jan 2019 18:39

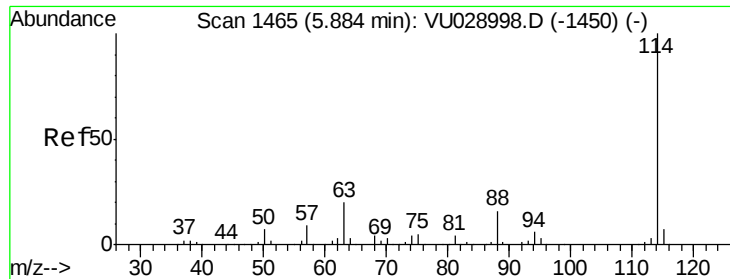
Tgt Ion: 65 Resp: 73958

Ion	Ratio	Lower	Upper
65	100		
67	56.1	0.0	111.0



Abundance Ion 64.90 (64.60 to 65.60): VU028998.D (-1277) (-)

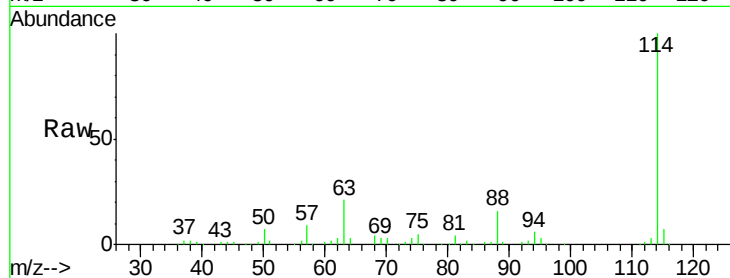




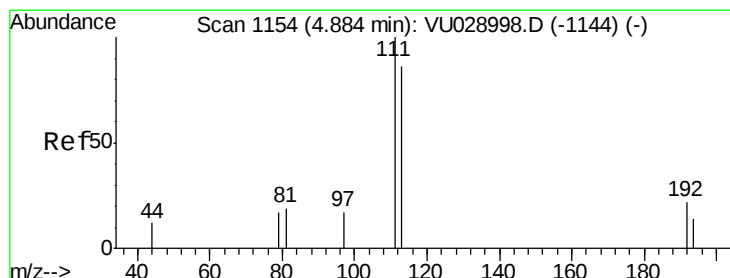
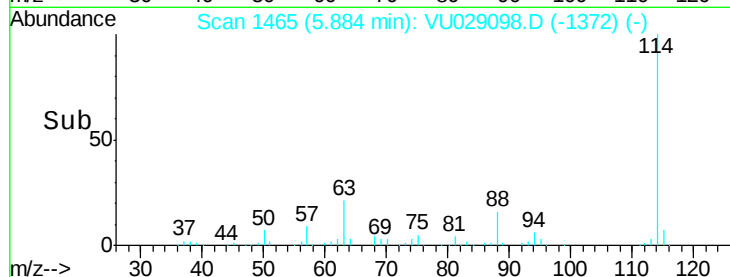
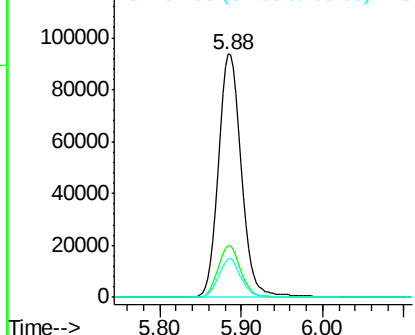
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029098.D
 Acq: 09 Jan 2019 18:39

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 187921
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.2
 88 15.7 0.0 30.4

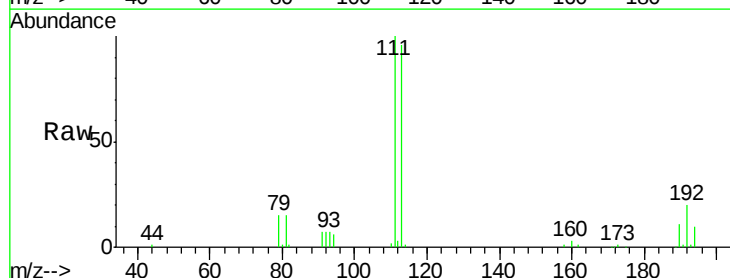


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

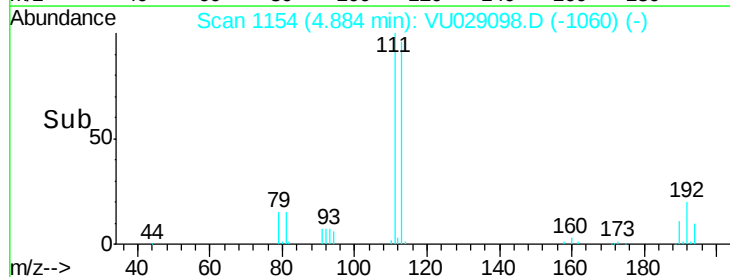
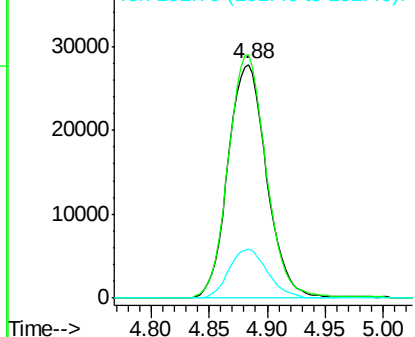


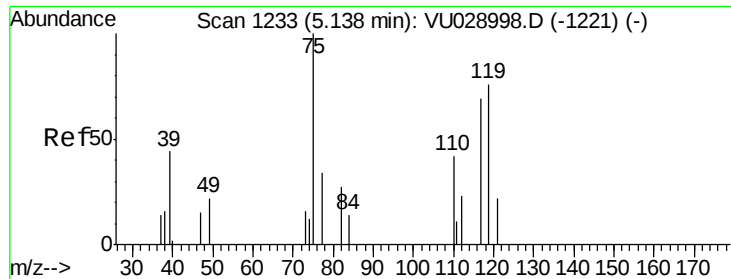
#35
 Dibromofluoromethane
 Concen: 52.888 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU029098.D
 Acq: 09 Jan 2019 18:39

Tgt Ion:113 Resp: 64426
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.4 122.2
 192 20.9 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

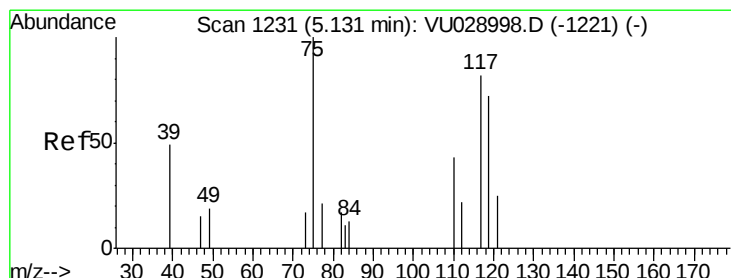
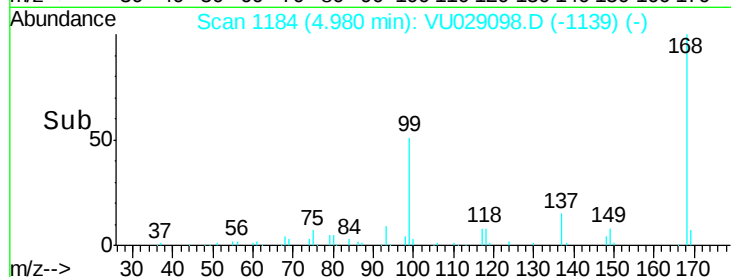
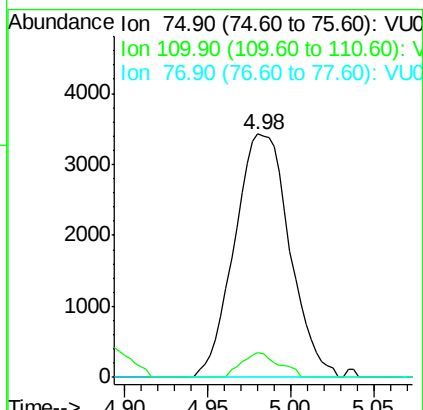
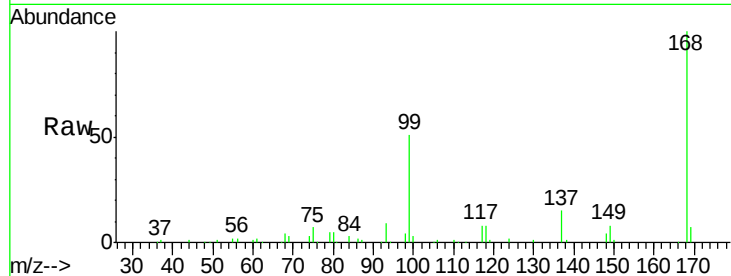




#36
 1,1-Dichloropropene
 Concen: 4.208 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029098.D
 Acq: 09 Jan 2019 18:39

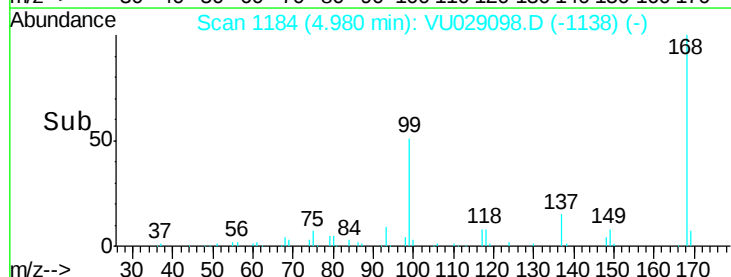
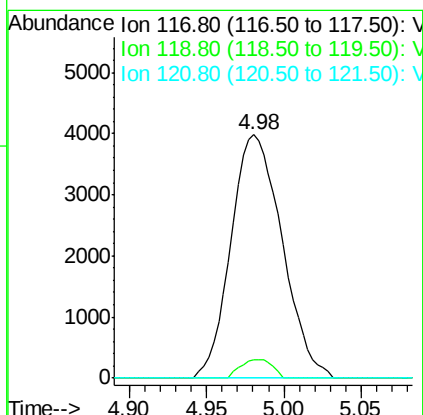
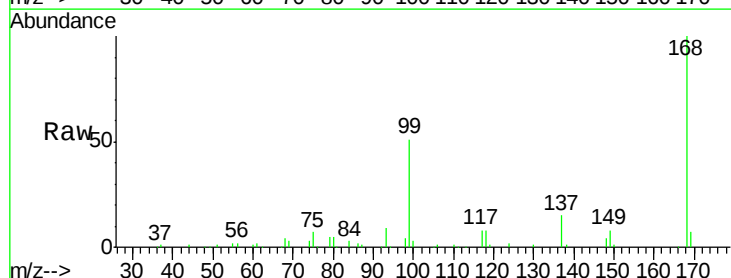
Instrument :
 MSVOA_U
 ClientSampleId :

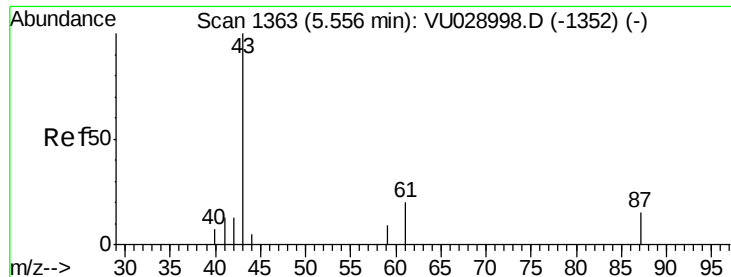
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	18.4	55.4#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.831 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029098.D
 Acq: 09 Jan 2019 18:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.6	74.6	111.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 2.583 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

Instrument :

MSVOA_U

ClientSampleId :

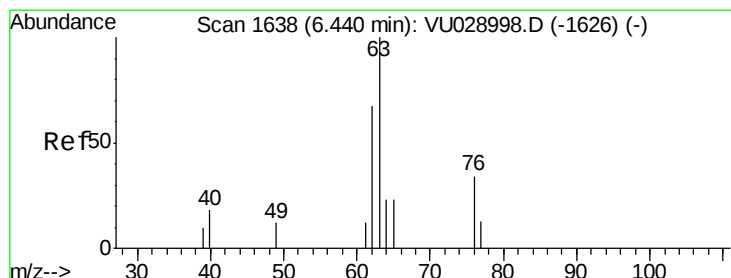
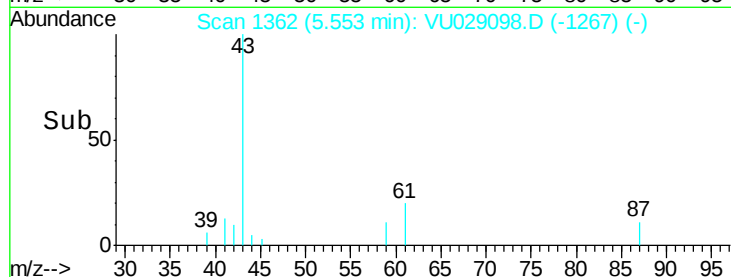
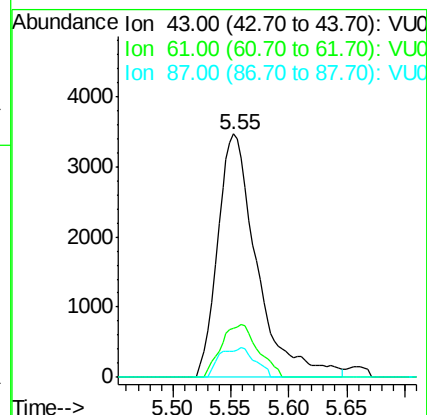
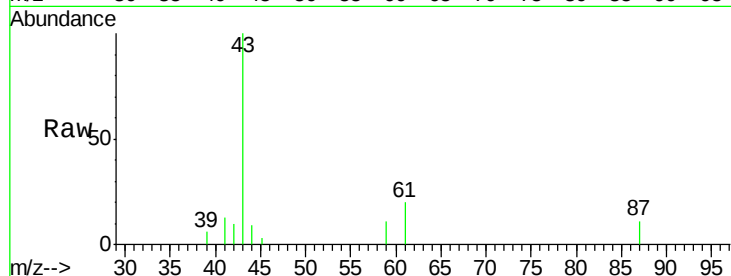
Tot Ion: 43 Resp: 8170

Ion Ratio Lower Upper

43 100

61 20.4 17.8 26.6

87 5.1 11.3 16.9#



#45

1,2-Dichloropropane

Concen: 0.502 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.28 min

Lab File: VU029098.D

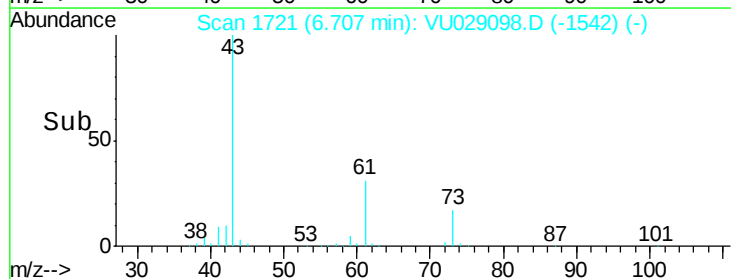
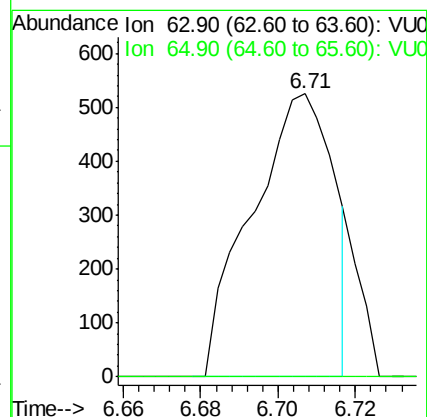
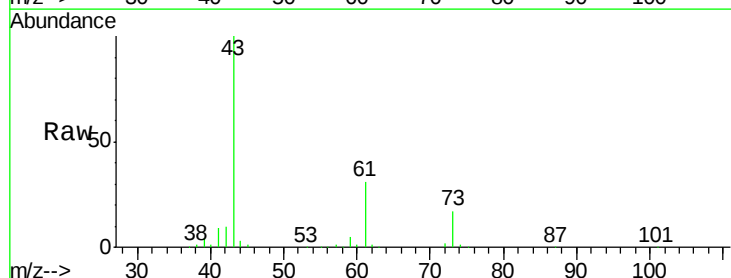
Acq: 09 Jan 2019 18:39

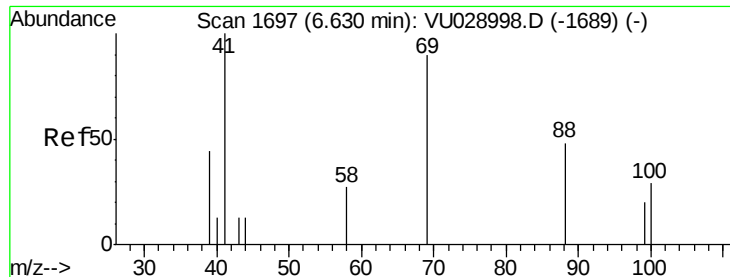
Tgt Ion: 63 Resp: 776

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#





#48

Methyl methacrylate

Concen: 35.020 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

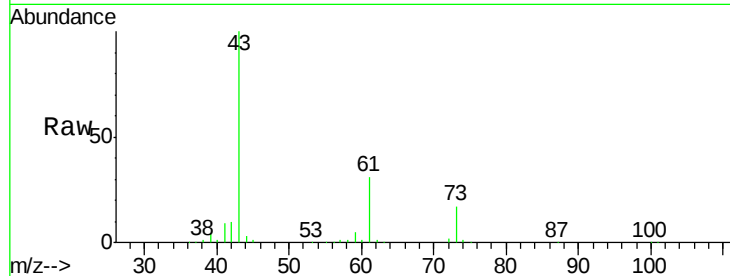
Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 53933

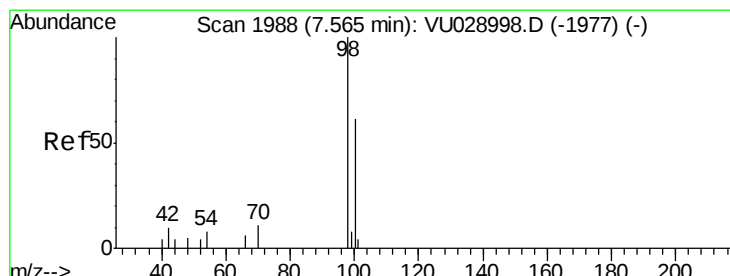
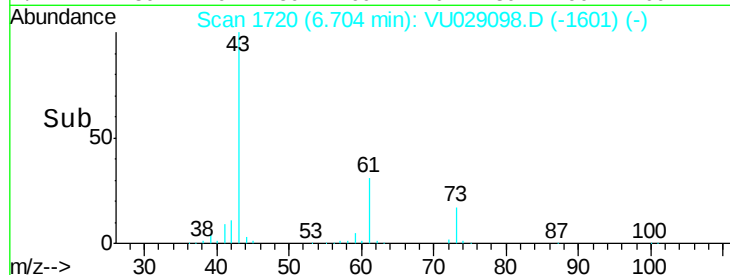
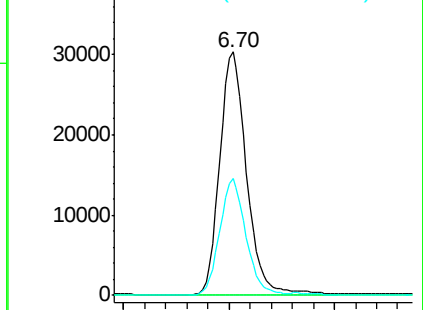
Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.6	110.4#
39	46.4	39.6	59.4



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: 50.931 ug/l

RT: 7.56 min Scan# 1987

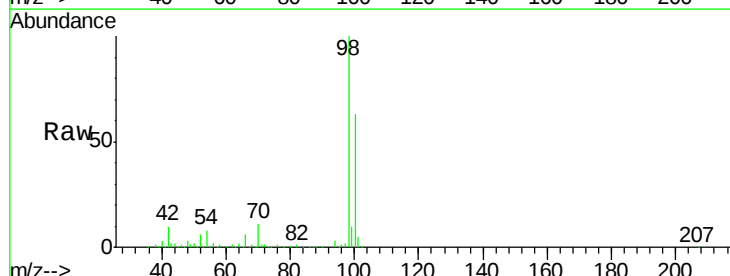
Delta R.T. 0.00 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

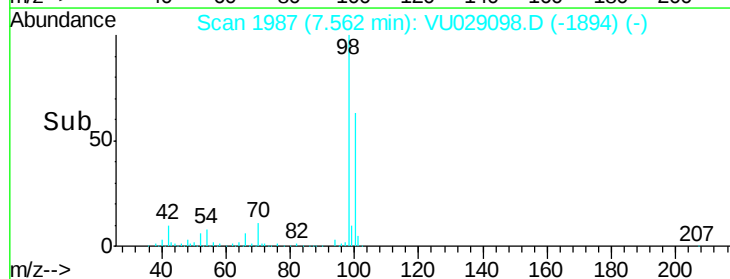
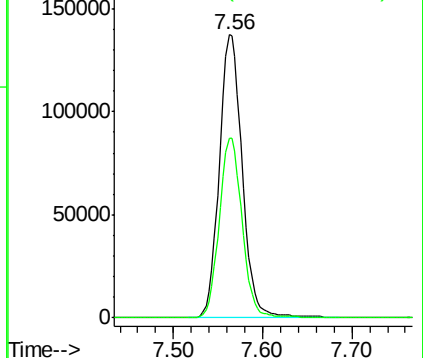
Tgt Ion: 98 Resp: 244935

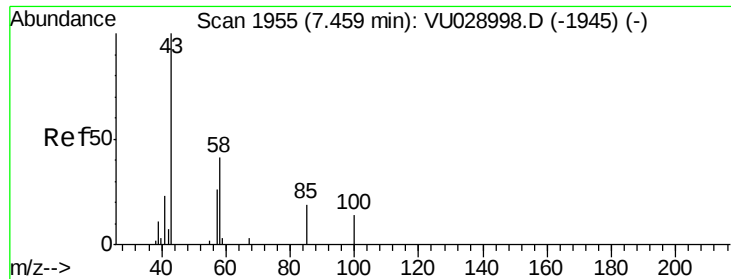
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.6	77.4



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: 1.921 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

Instrument :

MSVOA_U

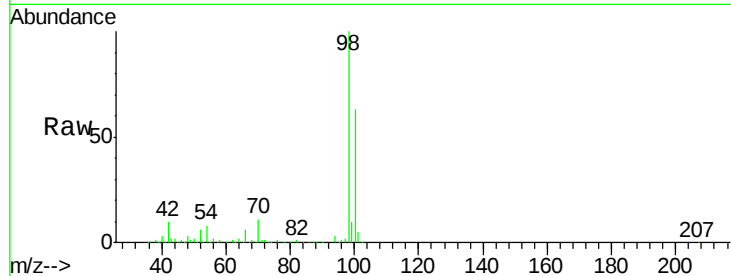
ClientSampled :

Tot Ion: 43 Resp: 4134

Ion Ratio Lower Upper

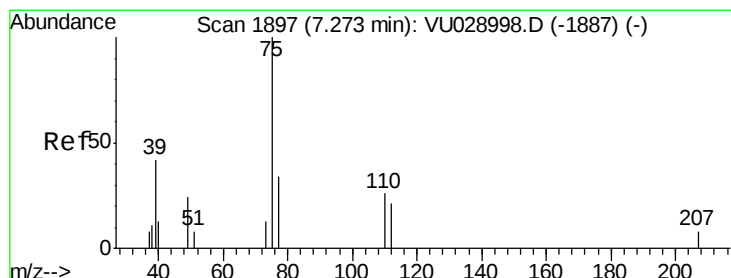
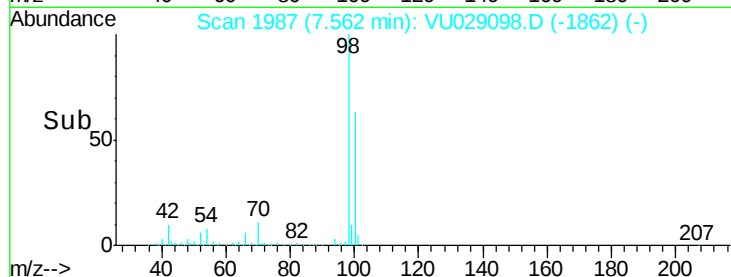
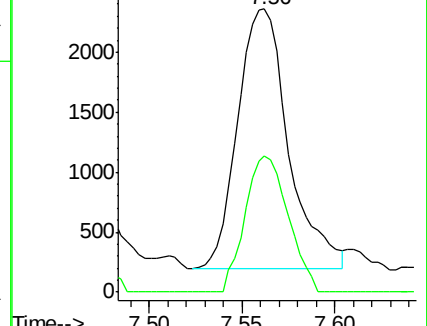
43 100

58 44.2 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: 8.758 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

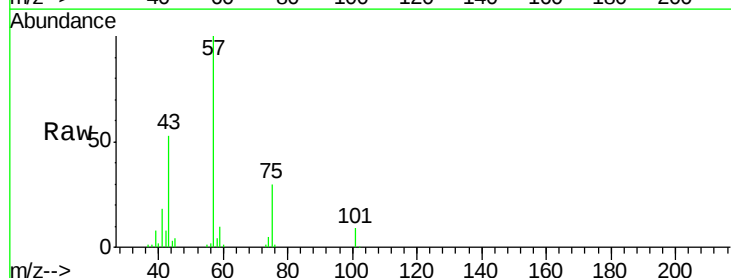
Tgt Ion: 75 Resp: 20703

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

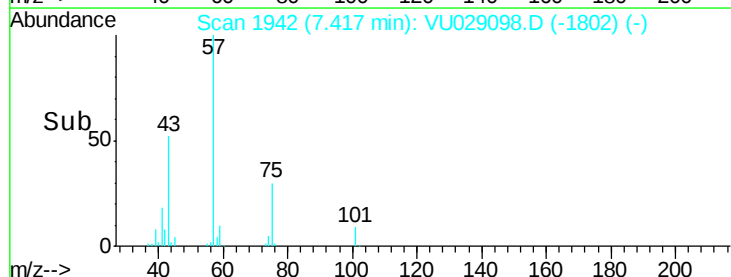
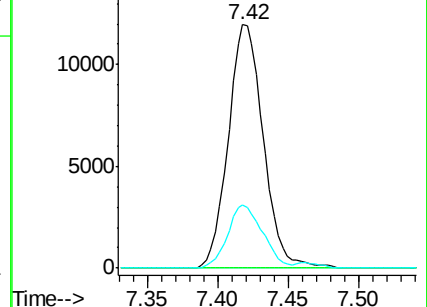
39 25.8 32.2 48.4#

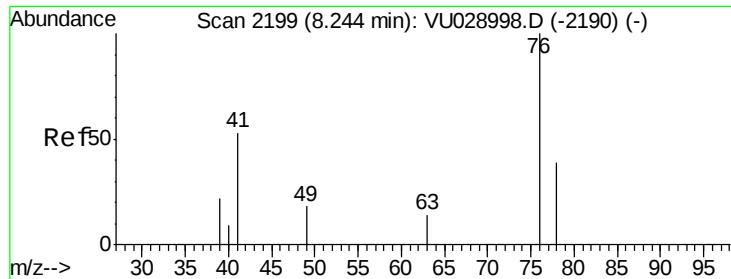


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

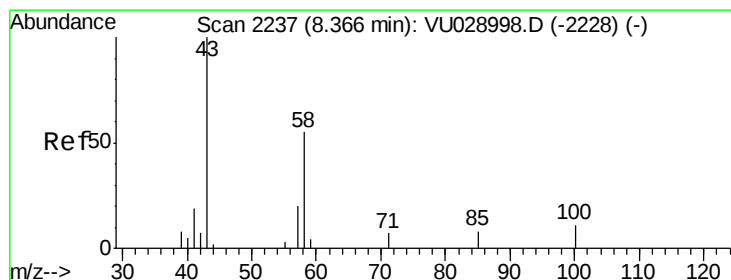
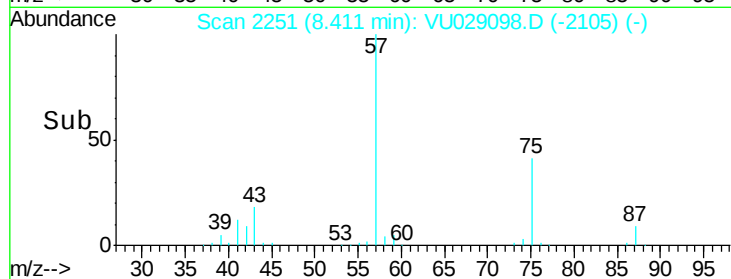
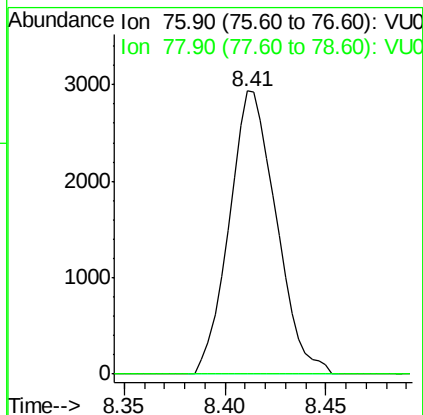
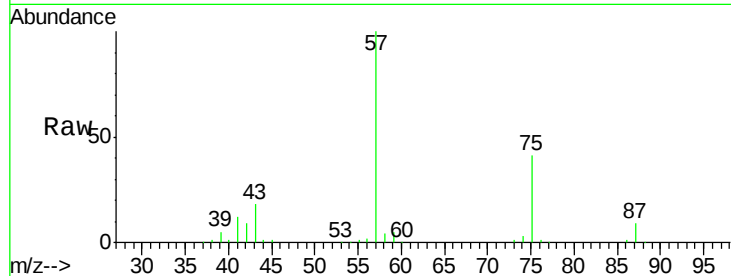




#57
 1,3-Dichloropropane
 Concen: 1.958 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029098.D
 Acq: 09 Jan 2019 18:39

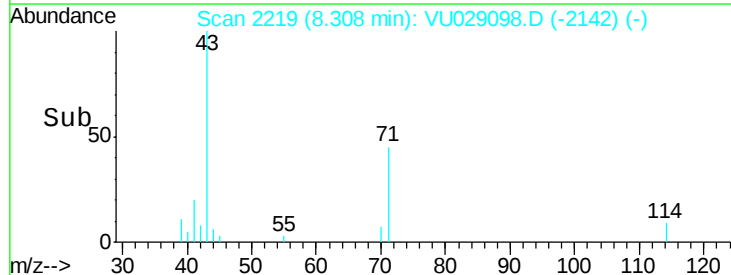
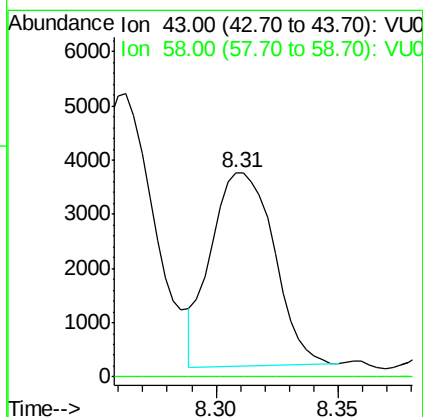
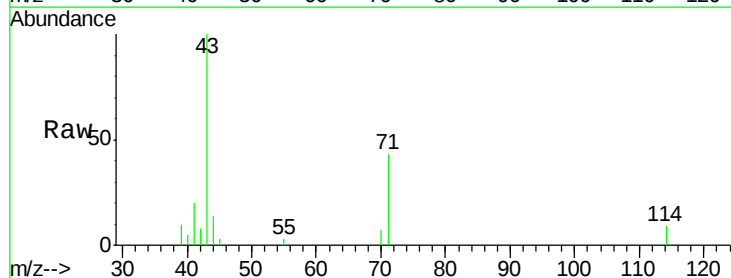
Instrument :
 MSVOA_U
 ClientSampleId :

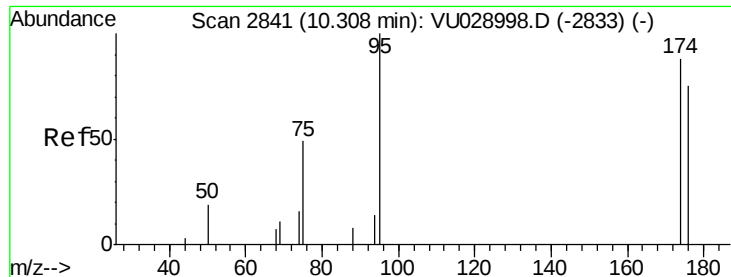
Tot Ion: 76 Resp: 4788
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 3.802 ug/l
 RT: 8.31 min Scan# 2219
 Delta R.T. -0.05 min
 Lab File: VU029098.D
 Acq: 09 Jan 2019 18:39

Tgt Ion: 43 Resp: 6424
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#

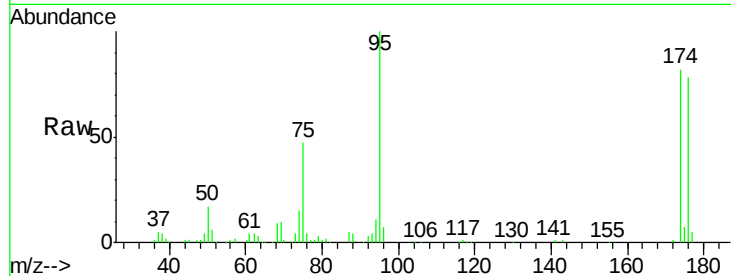




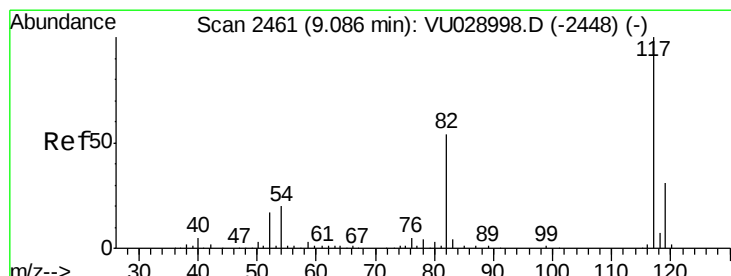
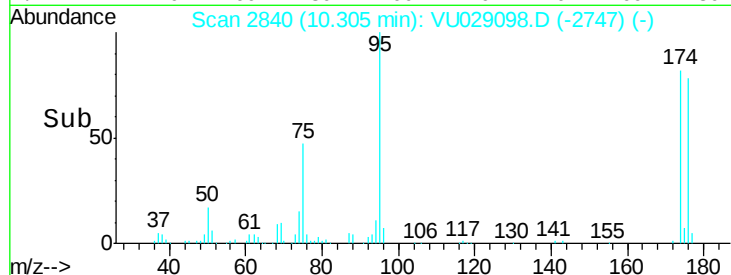
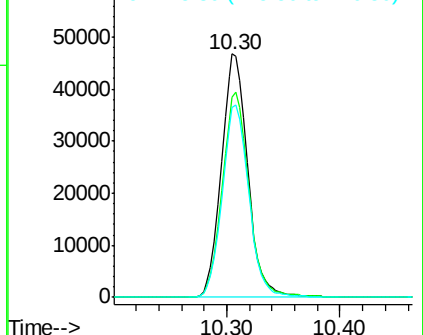
#62
4-Bromofluorobenzene
Concen: 43.848 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029098.D
Acq: 09 Jan 2019 18:39

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 75783
Ion Ratio Lower Upper
95 100
174 85.2 0.0 170.6
176 79.7 0.0 165.0

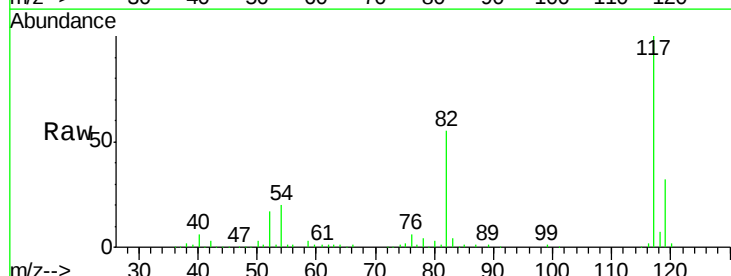


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)
Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)
Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

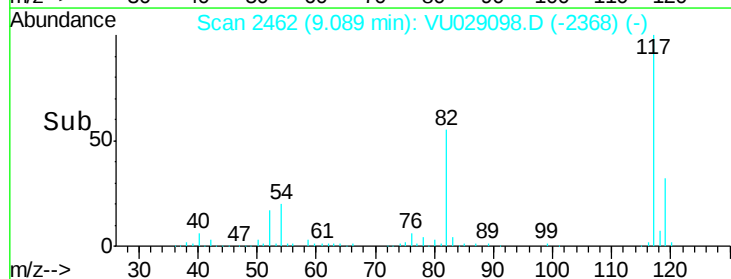
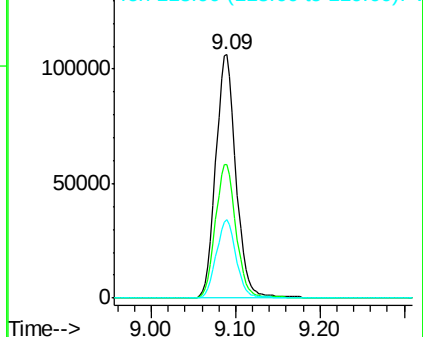


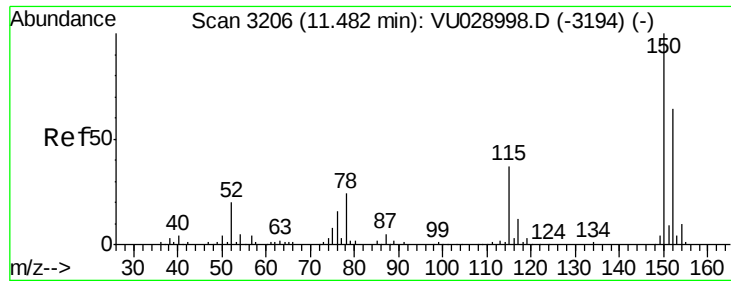
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029098.D
Acq: 09 Jan 2019 18:39

Tgt Ion: 117 Resp: 178145
Ion Ratio Lower Upper
117 100
82 54.6 43.9 65.9
119 32.1 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: VU029098.D

Acq: 09 Jan 2019 18:39

Instrument :

MSVOA_U

ClientSampleId :

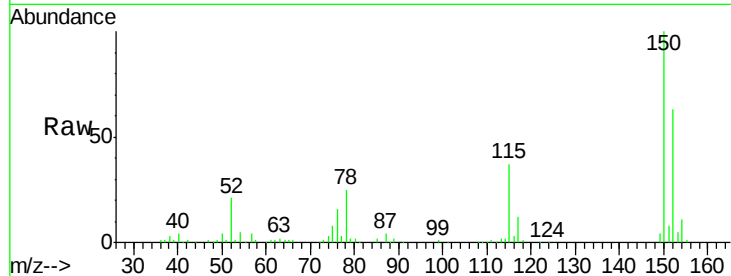
Tot Ion:152 Resp: 69499

Ion Ratio Lower Upper

152 100

115 57.0 40.1 120.3

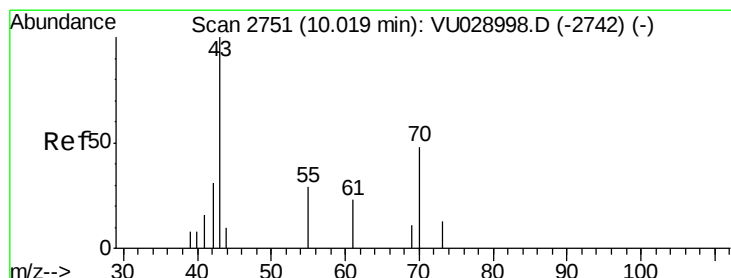
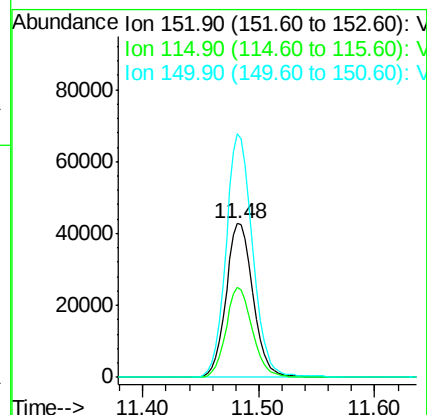
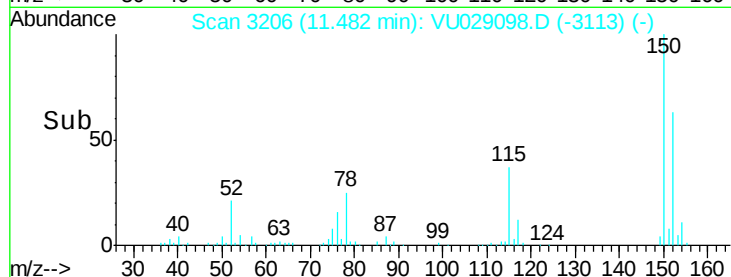
150 155.3 0.0 345.2



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



#74

N-ethyl acetate

Concen: 2.800 ug/l

RT: 9.77 min Scan# 2673

Delta R.T. -0.24 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

Tgt Ion: 43 Resp: 6207

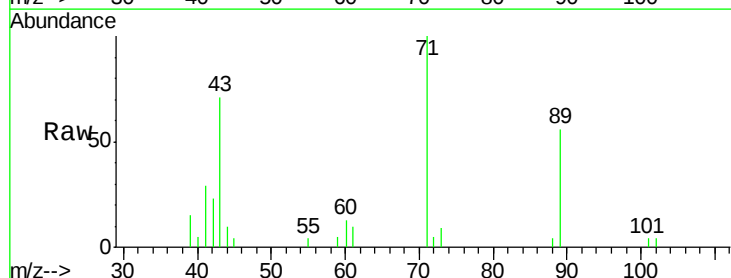
Ion Ratio Lower Upper

43 100

70 0.0 36.3 54.5#

55 2.9 20.5 30.7#

61 9.8 21.8 32.8#

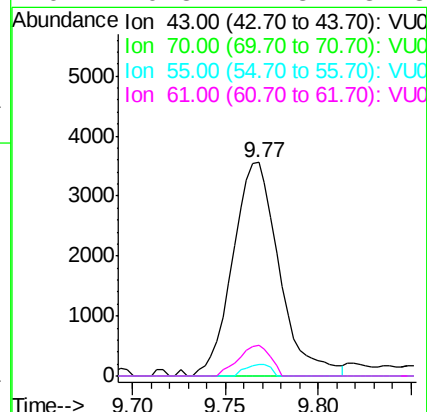
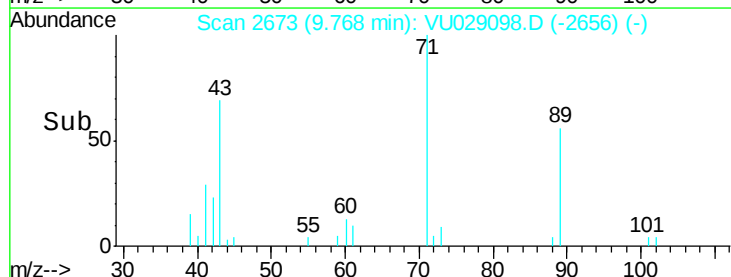


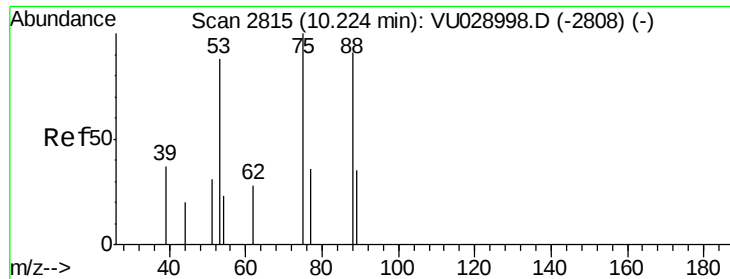
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 20.948 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

Instrument :

MSVOA_U

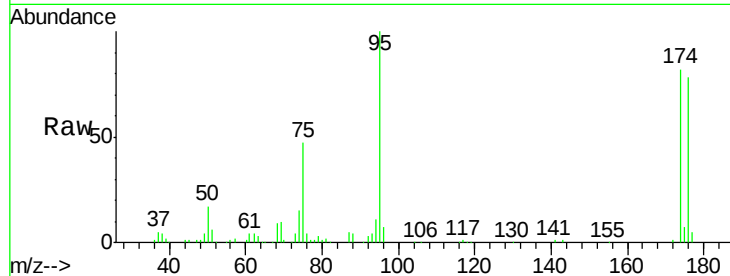
ClientSampleId :

Tot Ion: 75 Resp: 35671

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-2808) (-)

Ion 77.00 (76.70 to 77.70): VU028998.D (-2808) (-)

10.30

25000

20000

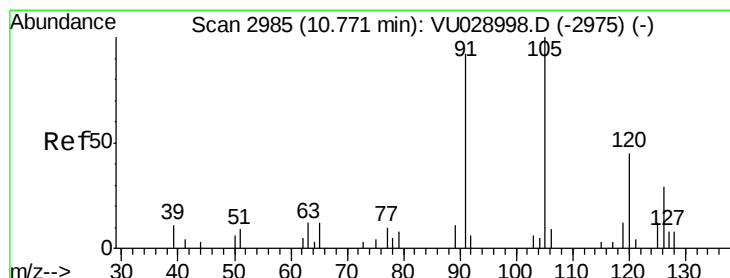
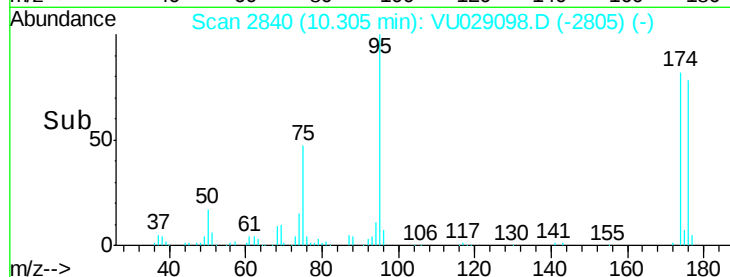
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.526 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029098.D

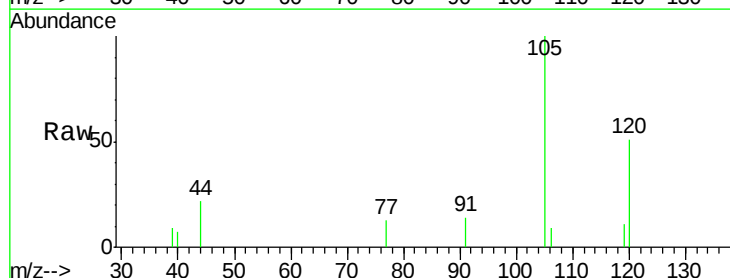
Acq: 09 Jan 2019 18:39

Tgt Ion: 105 Resp: 2260

Ion Ratio Lower Upper

105 100

120 48.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VU028998.D (-2975) (-)

Ion 120.00 (119.70 to 120.70): VU028998.D (-2975) (-)

10.77

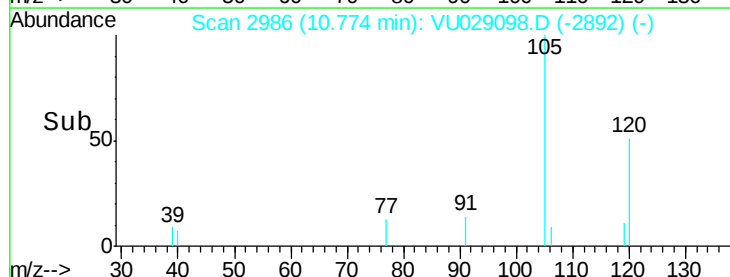
1500

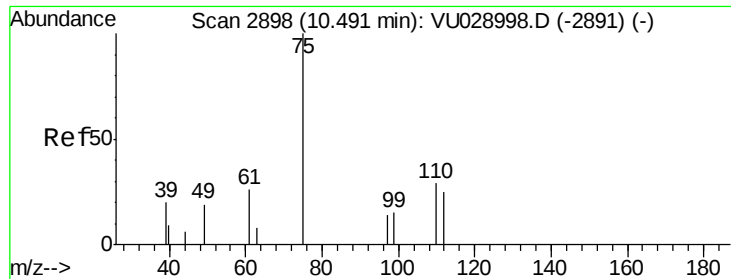
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 54.026 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029098.D

Acq: 09 Jan 2019 18:39

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 35671

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

