

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029095.D
 Acq On : 09 Jan 2019 17:26
 Operator : MD/SY
 Sample : PB116248ZHE#10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:07:06 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	107602	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	191228	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	179924	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	71683	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	75734	56.94	ug/l	0.00
Spiked Amount			Recovery	=	113.88%	
35) Dibromofluoromethane	4.88	113	65178	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	
50) Toluene-d8	7.56	98	246654	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	10.31	95	77032	43.80	ug/l	0.00
Spiked Amount			Recovery	=	87.60%	

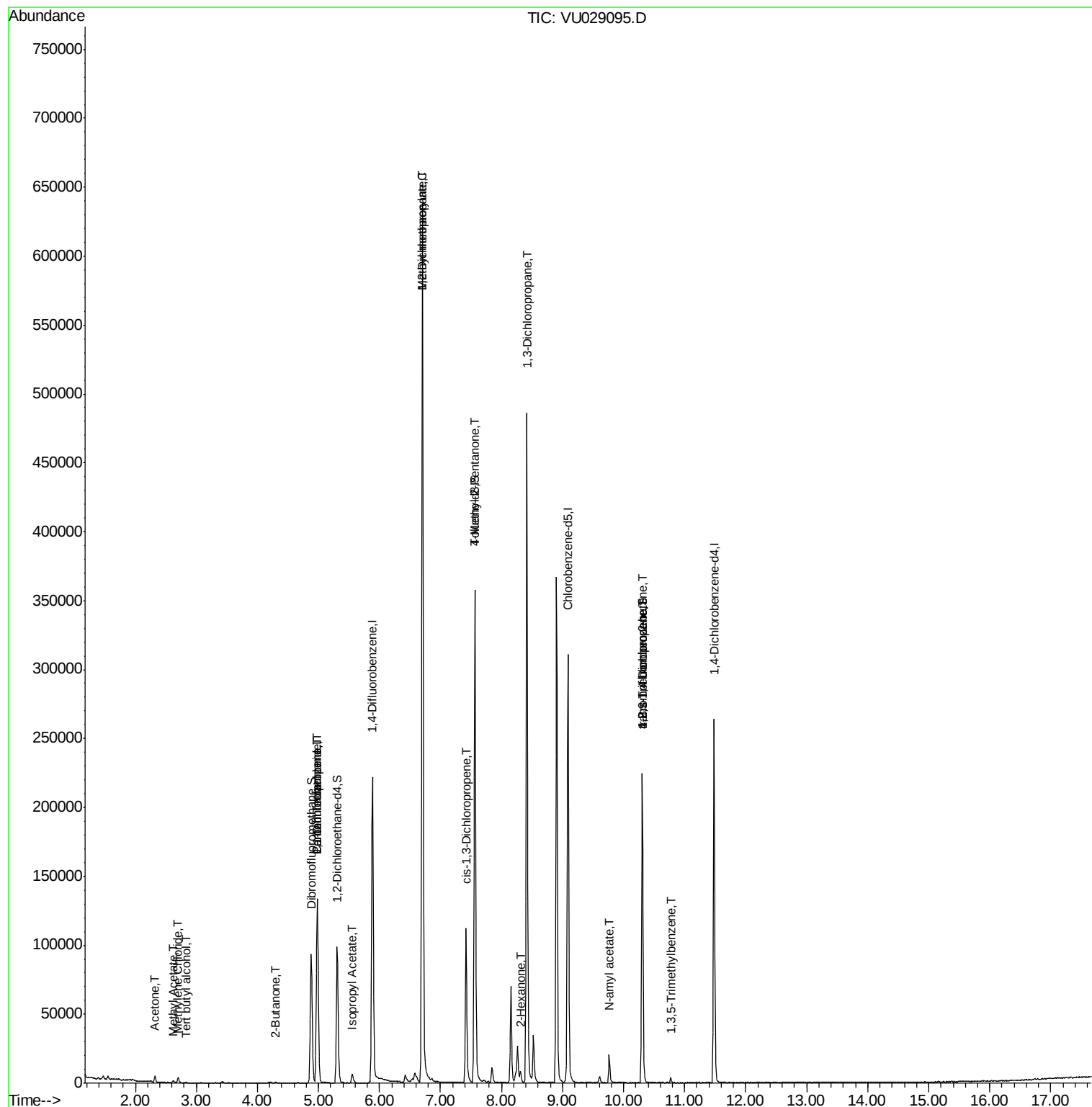
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	648	Below Cal		97
11) Tert butyl alcohol	2.83	59	251	0.742	ug/l #	73
16) Acetone	2.32	43	5376	6.416	ug/l	99
18) Methyl Acetate	2.62	43	2275	1.168	ug/l #	80
20) Methylene Chloride	2.70	84	1785	1.255	ug/l	90
25) 2-Butanone	4.30	43	274	0.242	ug/l #	47
31) Cyclohexane	4.98	56	1821	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7986	4.178	ug/l #	47
38) Carbon Tetrachloride	4.98	117	9168	5.751	ug/l #	18
43) Isopropyl Acetate	5.55	43	8516	2.646	ug/l	95
45) 1,2-Dichloropropane	6.70	63	642	0.408	ug/l #	43
48) Methyl methacrylate	6.70	41	54354	34.683	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4725	2.157	ug/l	96
54) cis-1,3-Dichloropropene	7.42	75	21447	8.916	ug/l #	63
57) 1,3-Dichloropropane	8.41	76	4969	1.997	ug/l #	42
59) 2-Hexanone	8.31	43	6295	3.661	ug/l #	21
74) N-amyl acetate	9.76	43	6511	2.848	ug/l #	48
76) 1,2,3-Trichloropropane	10.31	75	36629	20.855	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2653	0.599	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.31	75	36629	53.787	ug/l #	100

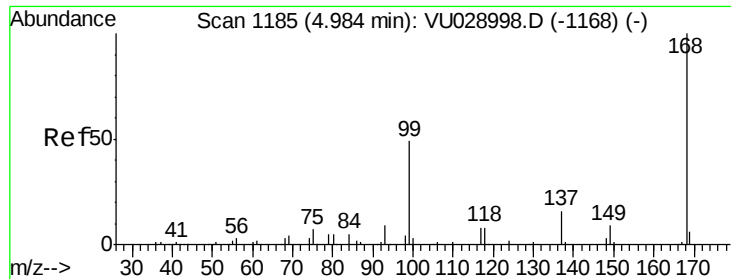
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
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: VU029095.D

Acq: 09 Jan 2019 17:26

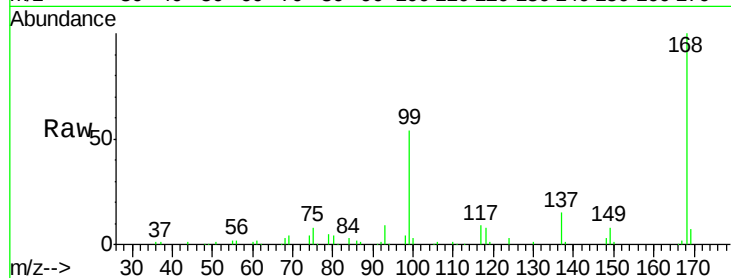
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 107602

Ion Ratio Lower Upper

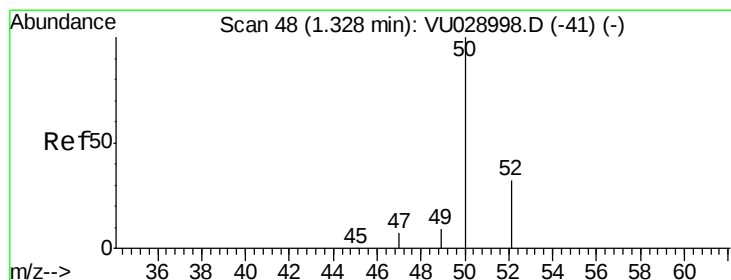
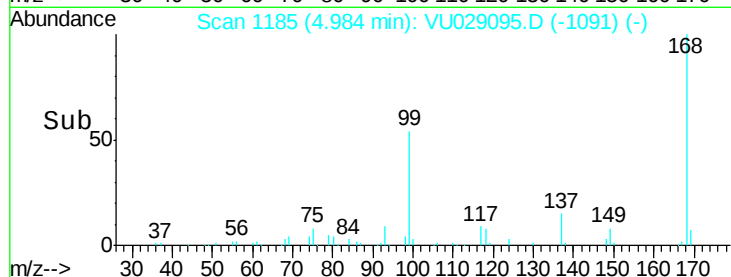
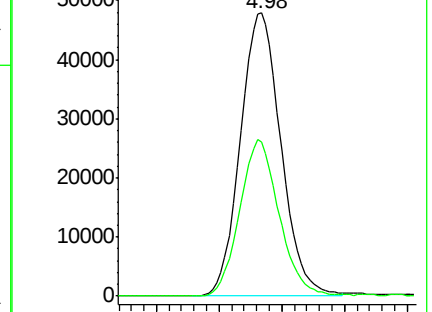
168 100

99 54.3 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: VU029095.D

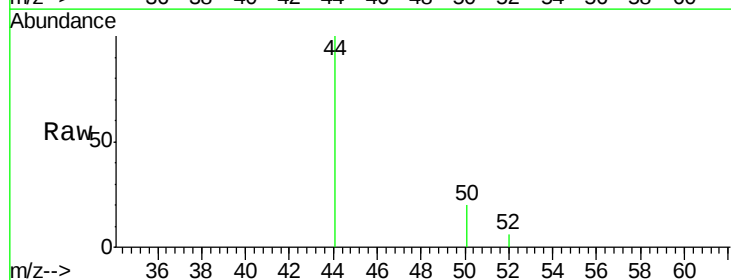
Acq: 09 Jan 2019 17:26

Tgt Ion: 50 Resp: 648

Ion Ratio Lower Upper

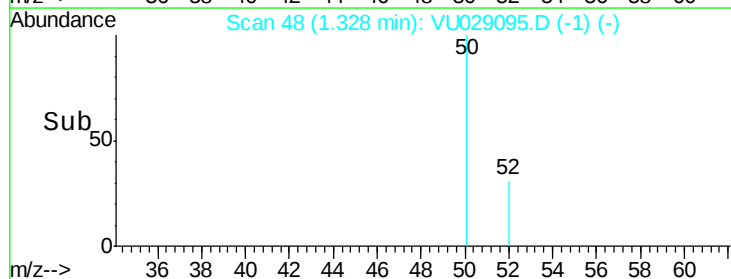
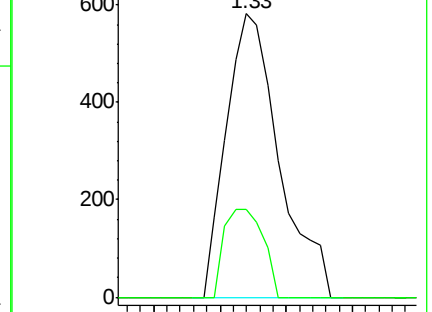
50 100

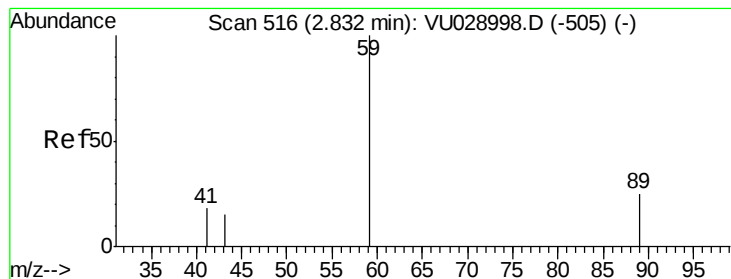
52 30.9 26.1 39.1



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

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

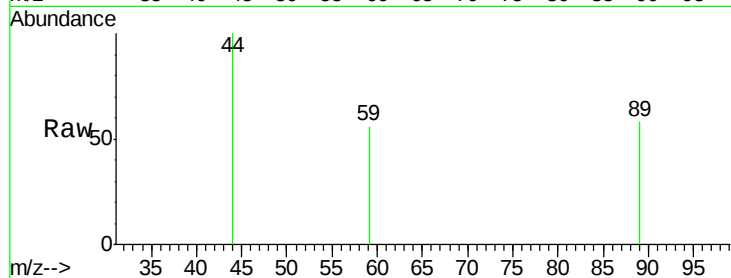




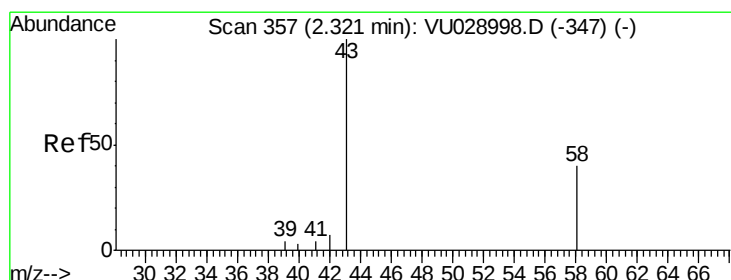
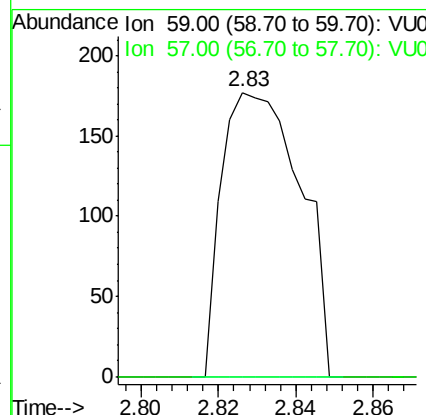
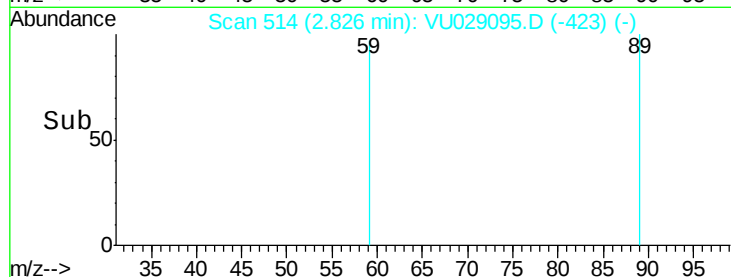
#11

Tert butyl alcohol
 Concen: 0.742 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. -0.01 min
 Lab File: VU029095.D
 Acq: 09 Jan 2019 17:26

Instrument :
 MSVOA_U
 ClientSampled :



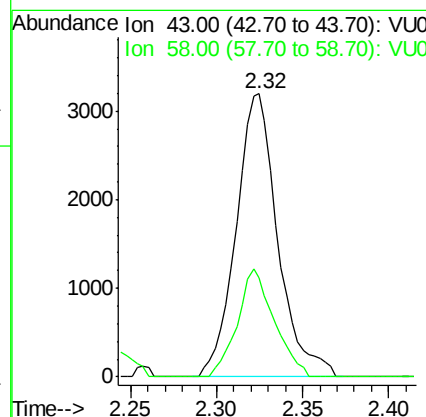
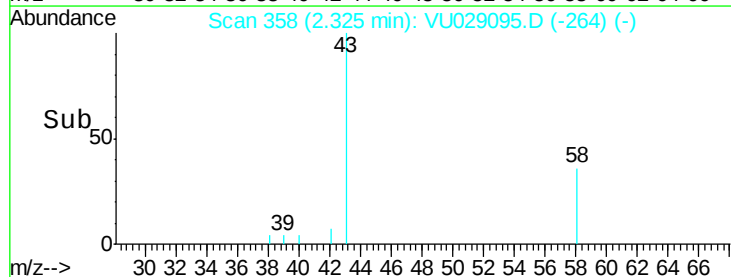
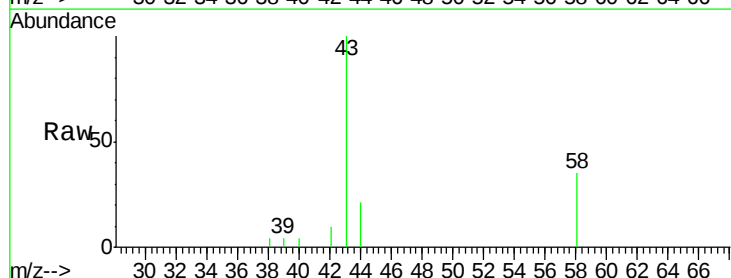
Tot Ion: 59 Resp: 251
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

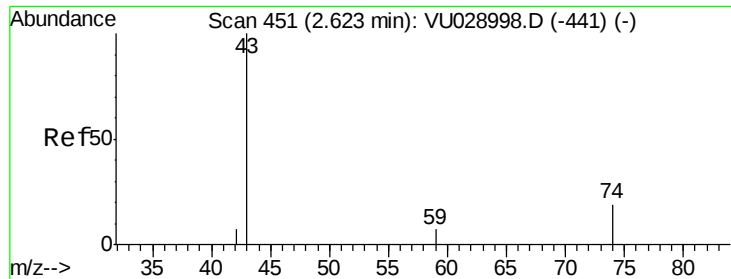


#16

Acetone
 Concen: 6.416 ug/l
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU029095.D
 Acq: 09 Jan 2019 17:26

Tgt Ion: 43 Resp: 5376
 Ion Ratio Lower Upper
 43 100
 58 35.1 28.6 42.8

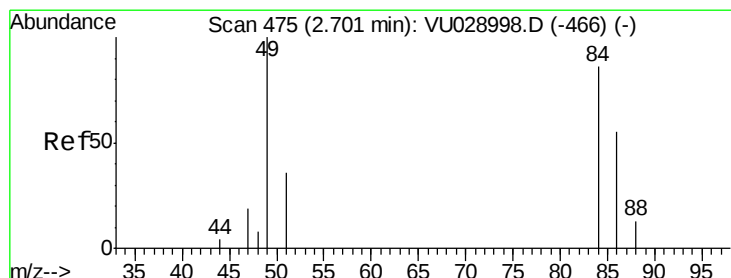
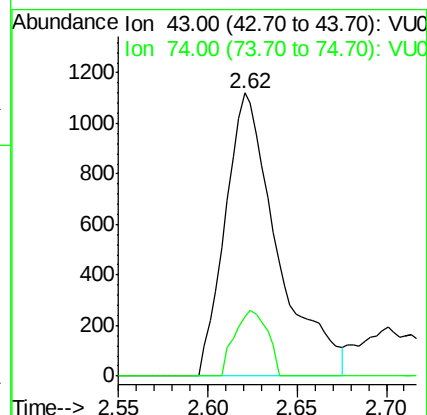
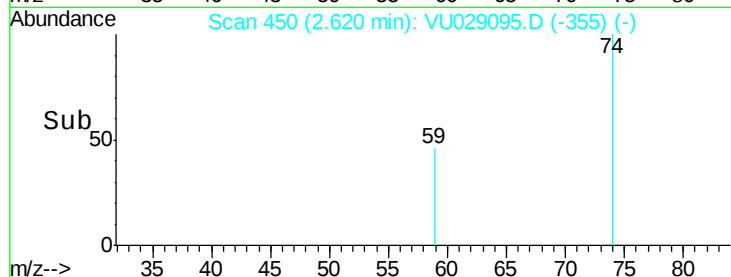
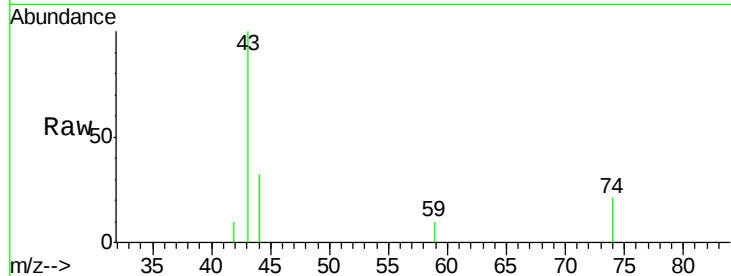




#18
Methyl Acetate
Concen: 1.168 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029095.D
Acq: 09 Jan 2019 17:26

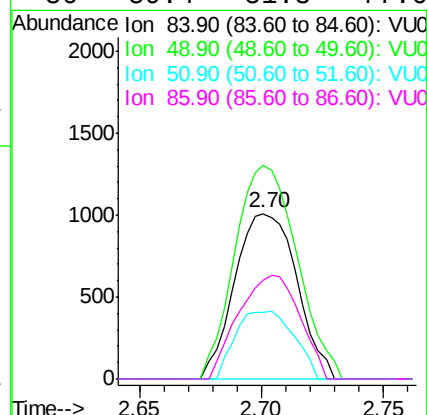
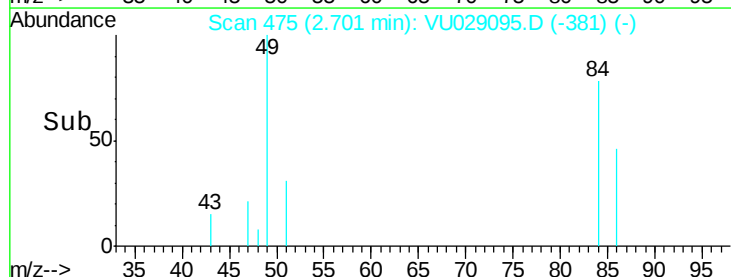
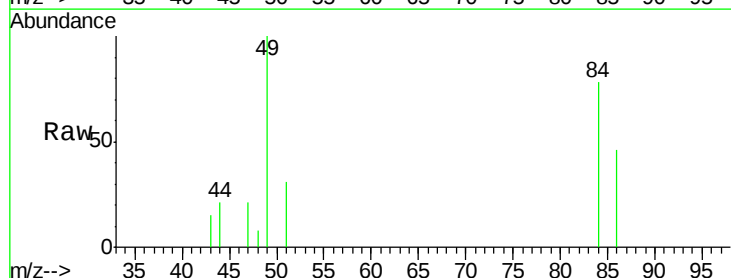
Instrument :
MSVOA_U
ClientSampleId :

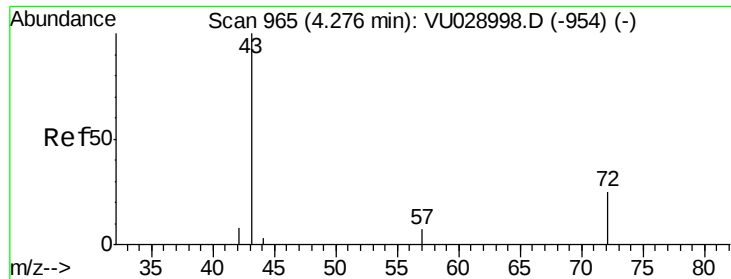
Tot Ion: 43 Resp: 2275
Ion Ratio Lower Upper
43 100
74 14.5 19.5 29.3#



#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029095.D
Acq: 09 Jan 2019 17:26

Tgt Ion: 84 Resp: 1785
Ion Ratio Lower Upper
84 100
49 129.0 91.9 137.9
51 40.5 29.2 43.8
86 59.4 51.8 77.6





#25

2-Butanone

Concen: 0.242 ug/l

RT: 4.30 min Scan# 971

Delta R.T. 0.04 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

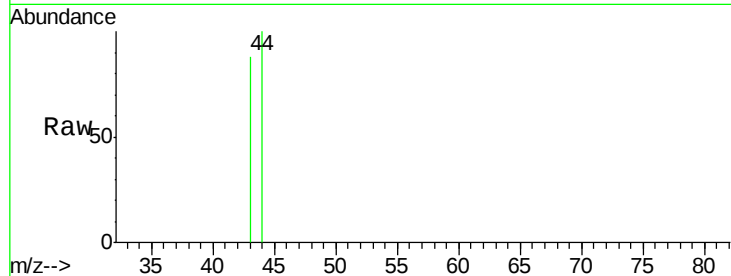
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 274

Ion Ratio Lower Upper

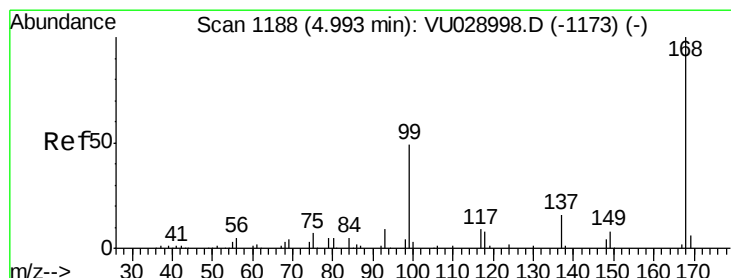
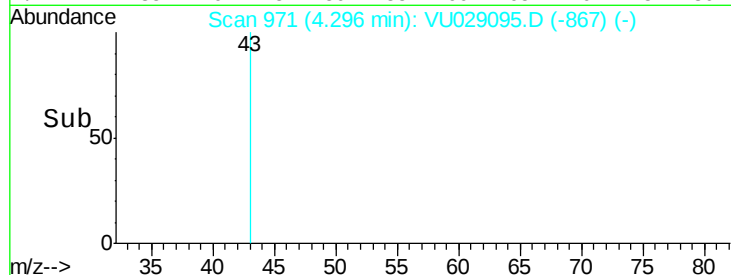
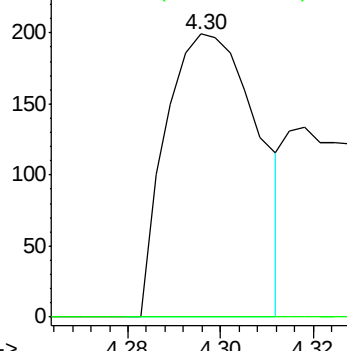
43 100

72 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

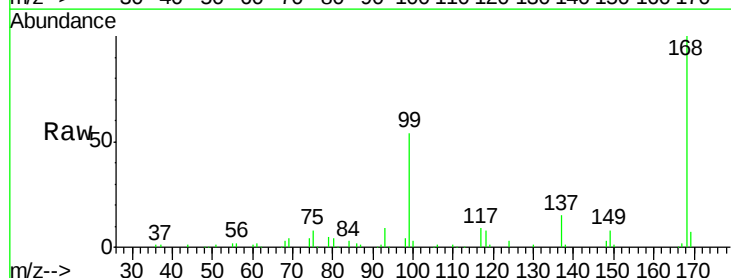
Tgt Ion: 56 Resp: 1821

Ion Ratio Lower Upper

56 100

69 182.7 26.7 40.1#

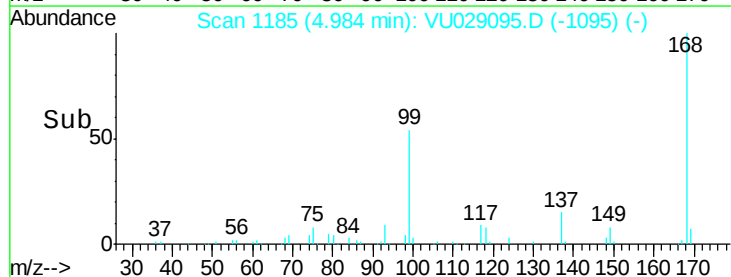
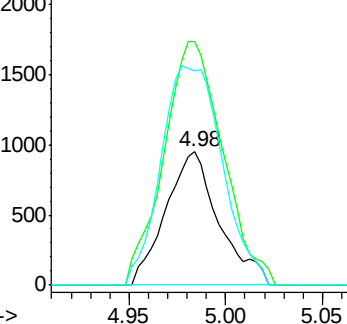
84 160.3 65.7 98.5#

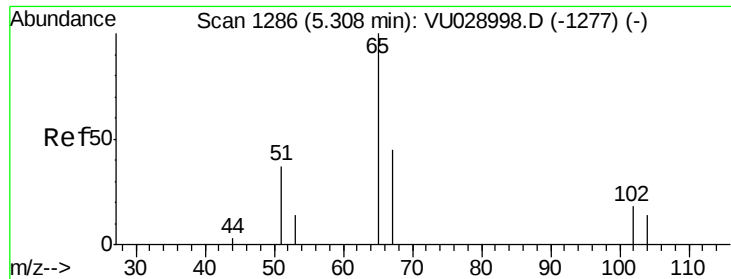


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

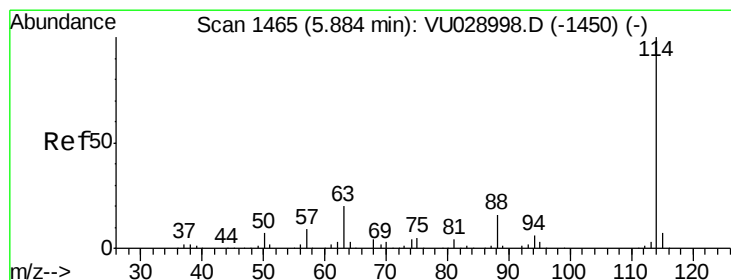
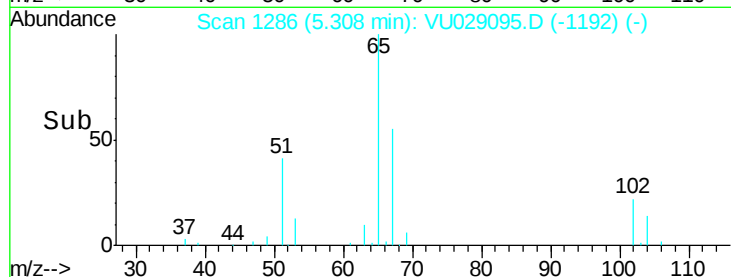
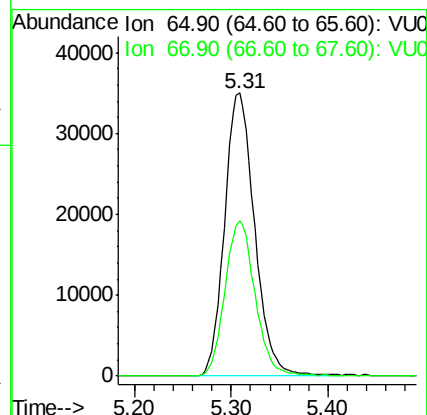
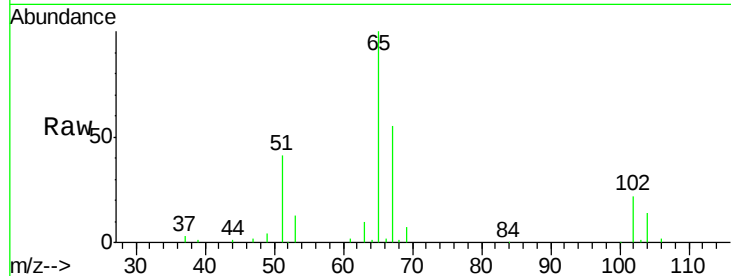




#33
 1,2-Dichloroethane-d4
 Concen: 56.935 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU029095.D
 Acq: 09 Jan 2019 17:26

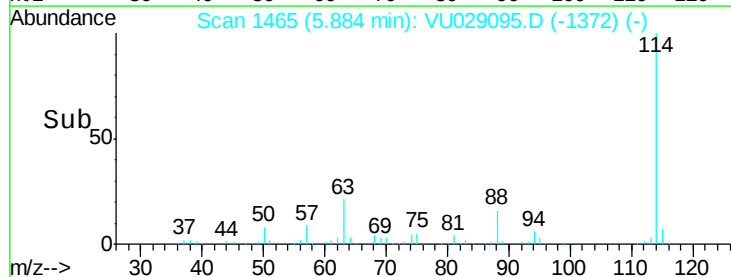
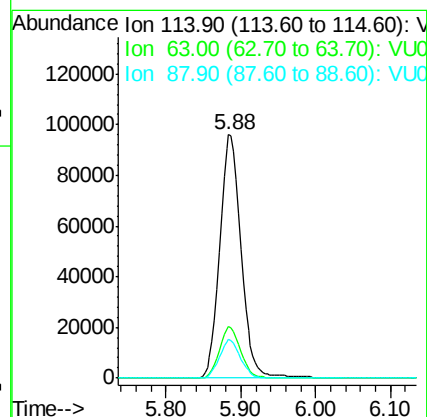
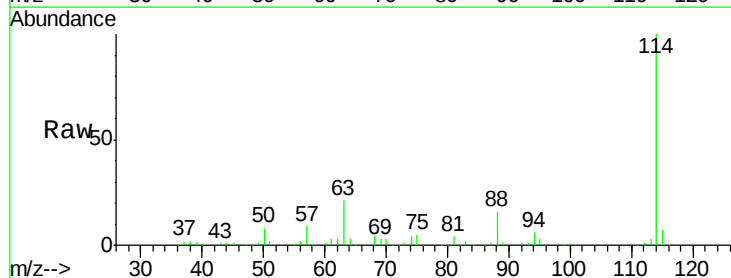
Instrument :
 MSVOA_U
 ClientSampleId :

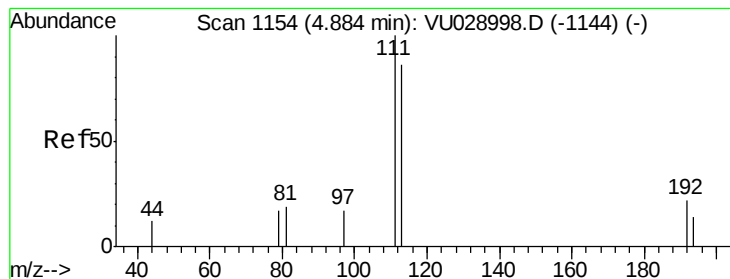
Tot Ion: 65 Resp: 75734
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029095.D
 Acq: 09 Jan 2019 17:26

Tgt Ion: 114 Resp: 191228
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.2
 88 15.9 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.580 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Instrument :
MSVOA_U
ClientSampleId :

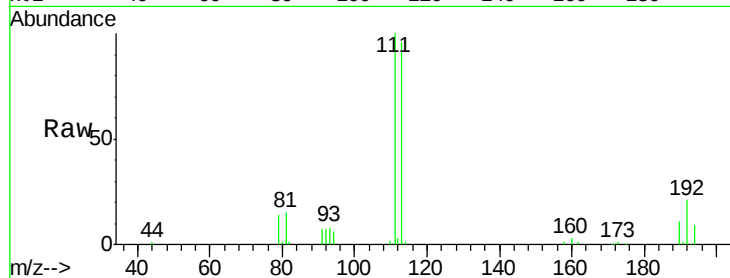
Tot Ion:113 Resp: 65178

Ion Ratio Lower Upper

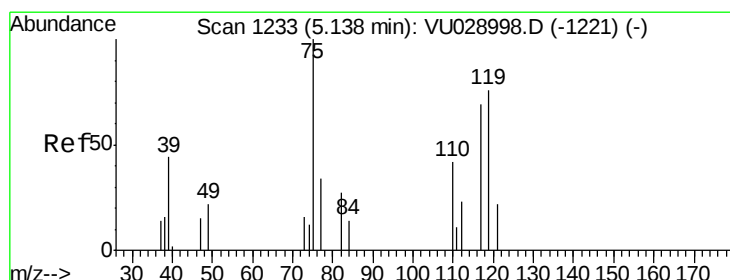
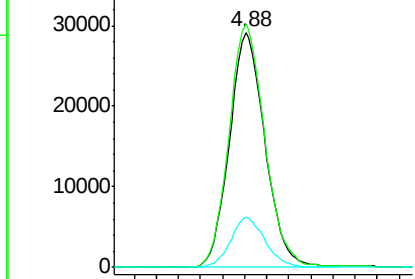
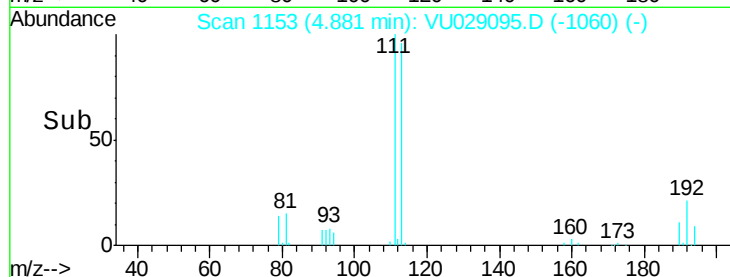
113 100

111 104.2 81.4 122.2

192 20.7 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: 4.178 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.15 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

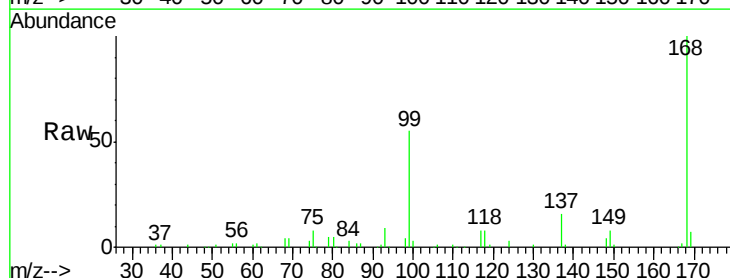
Tgt Ion: 75 Resp: 7986

Ion Ratio Lower Upper

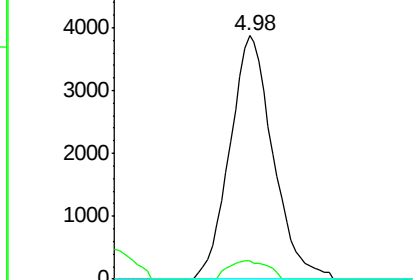
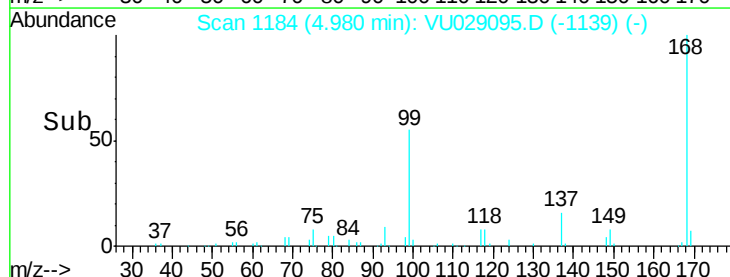
75 100

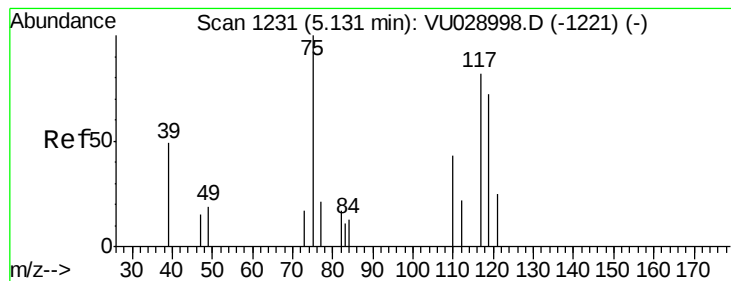
110 6.8 18.4 55.4#

77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 5.751 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Instrument :

MSVOA_U

ClientSampled :

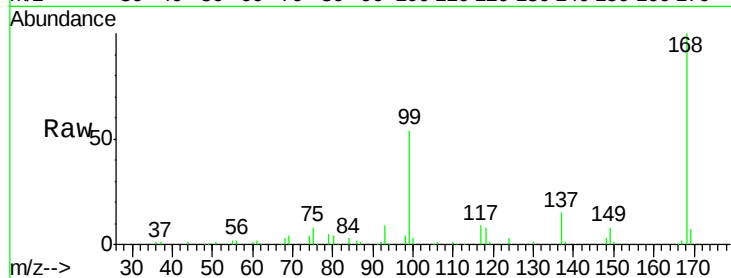
Tot Ion:117 Resp: 9168

Ion Ratio Lower Upper

117 100

119 6.3 74.6 111.8#

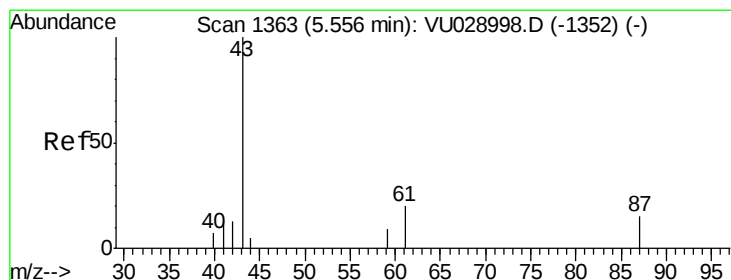
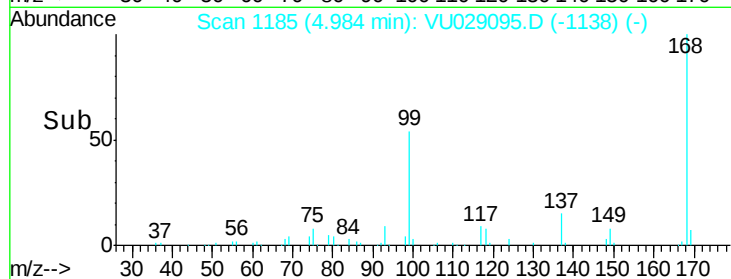
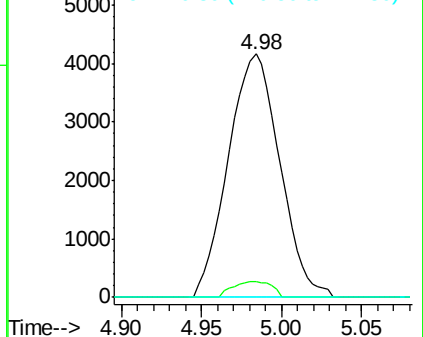
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.646 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

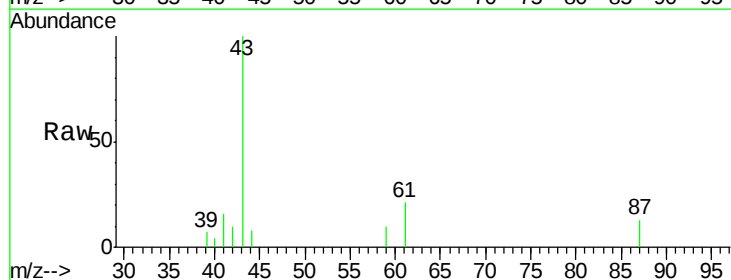
Tgt Ion: 43 Resp: 8516

Ion Ratio Lower Upper

43 100

61 19.5 17.8 26.6

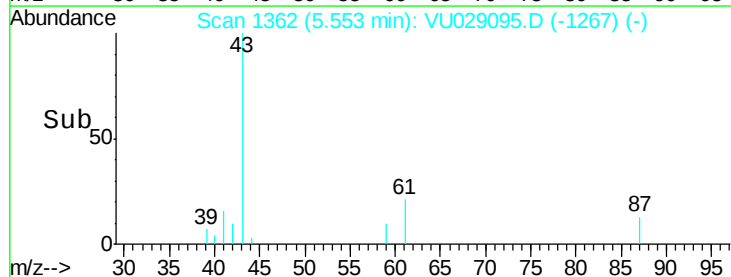
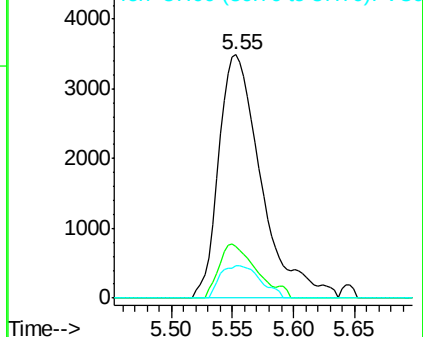
87 12.6 11.3 16.9

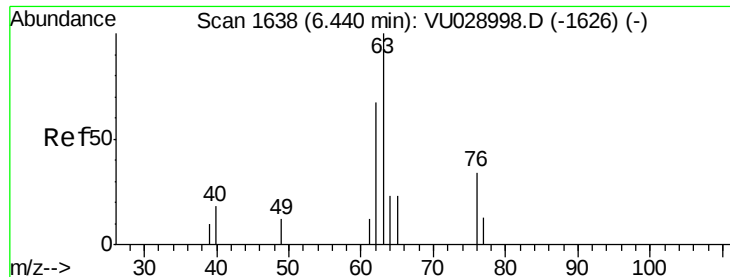


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.408 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

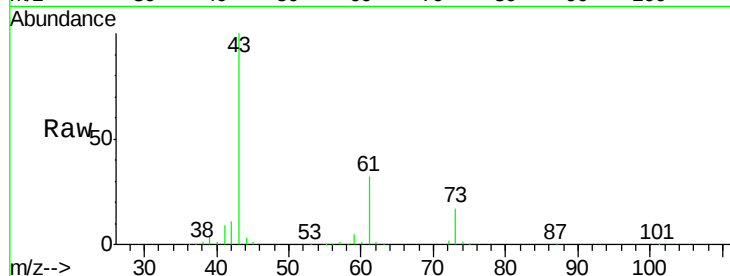
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 63 Resp: 642

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

6.70

400

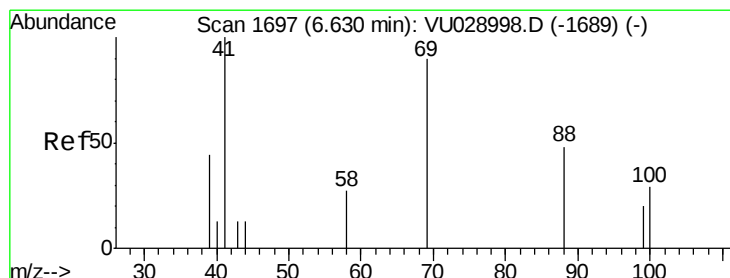
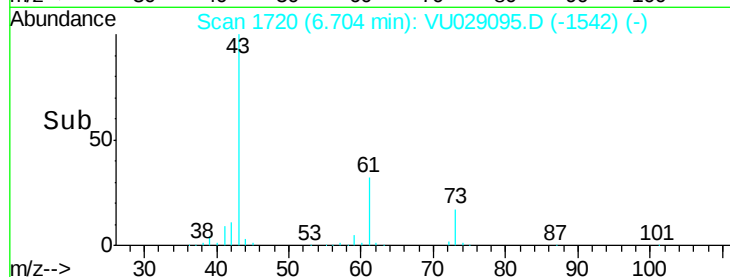
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 34.683 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

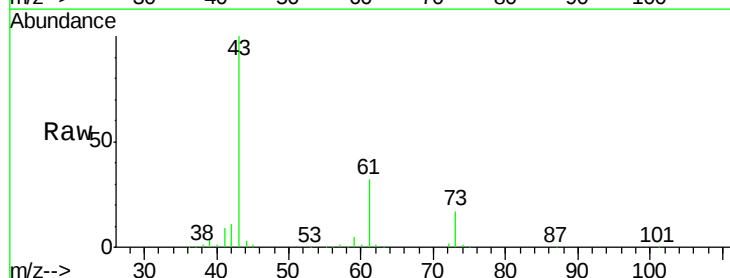
Tgt Ion: 41 Resp: 54354

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

39 47.5 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

6.70

40000

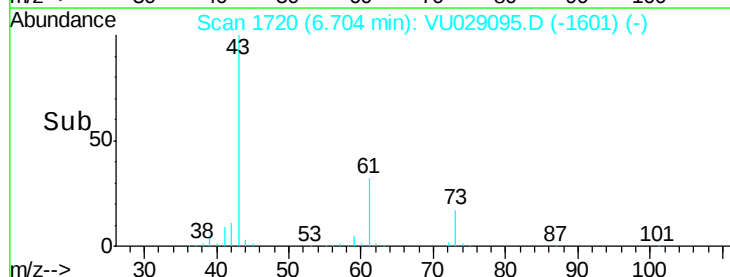
30000

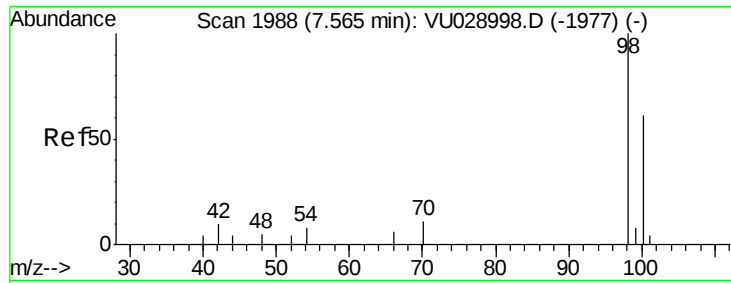
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.402 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Instrument :

MSVOA_U

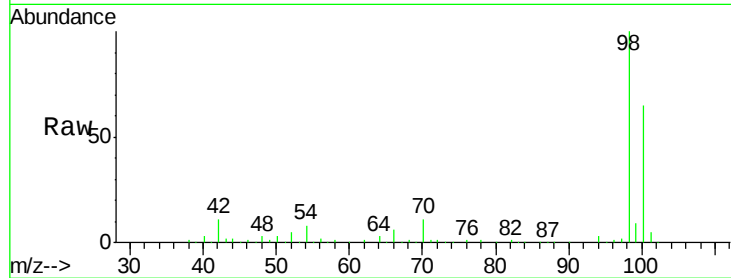
ClientSampled :

Tot Ion: 98 Resp: 246654

Ion Ratio Lower Upper

98 100

100 64.2 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) (-)

7.56

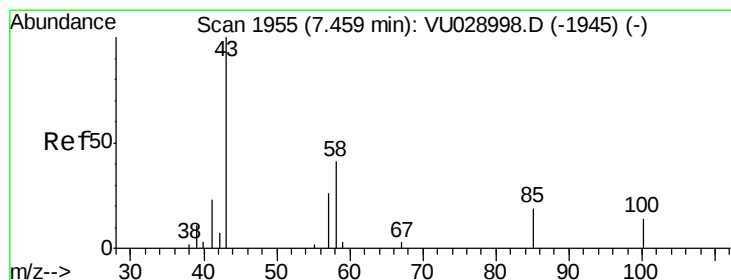
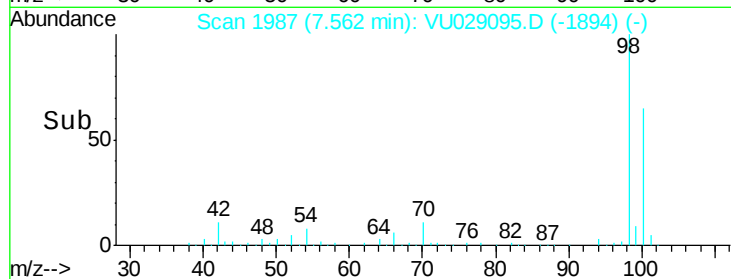
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.157 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029095.D

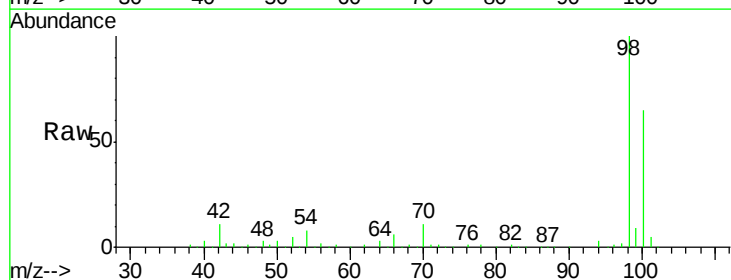
Acq: 09 Jan 2019 17:26

Tgt Ion: 43 Resp: 4725

Ion Ratio Lower Upper

43 100

58 39.9 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1945) (-)

Ion 58.00 (57.70 to 58.70): VU028998.D (-1945) (-)

7.56

2500

2000

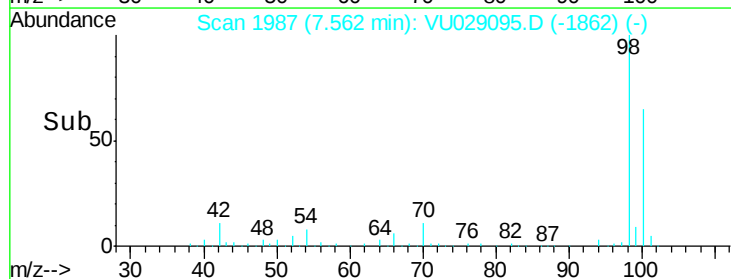
1500

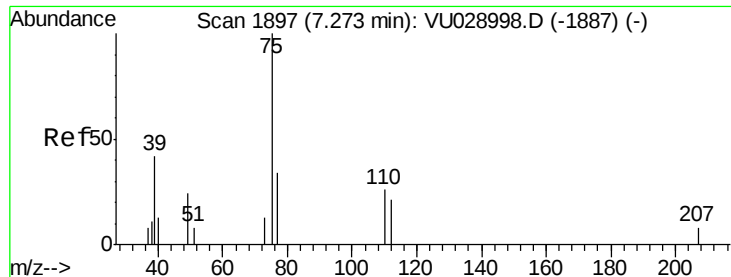
1000

500

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 8.916 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Instrument :
MSVOA_U
ClientSampleId :

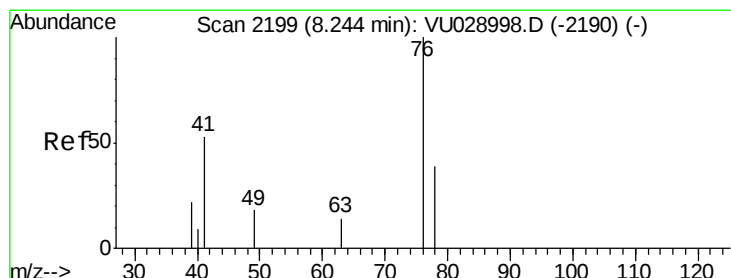
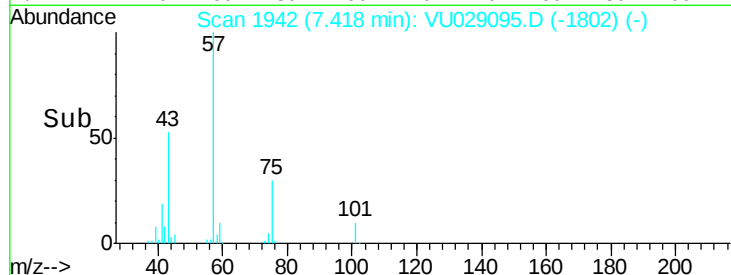
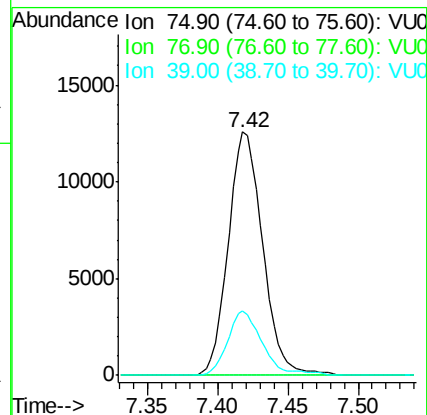
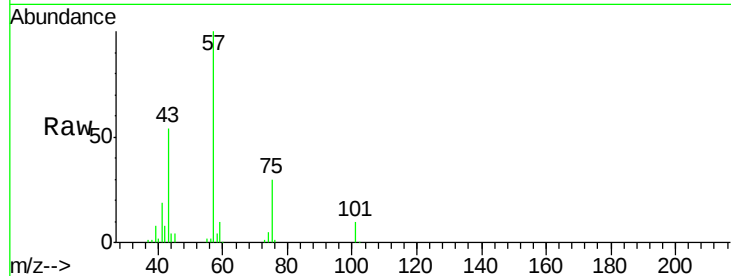
Tot Ion: 75 Resp: 21447

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 26.3 32.2 48.4#



#57

1,3-Dichloropropane

Concen: 1.997 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029095.D

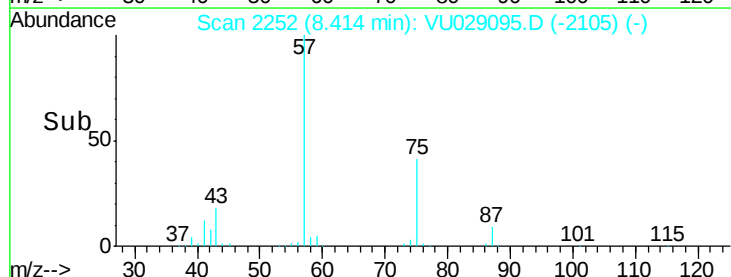
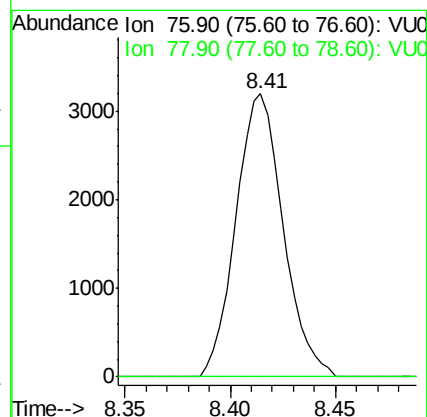
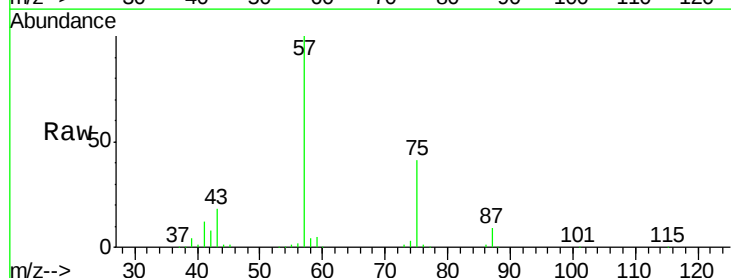
Acq: 09 Jan 2019 17:26

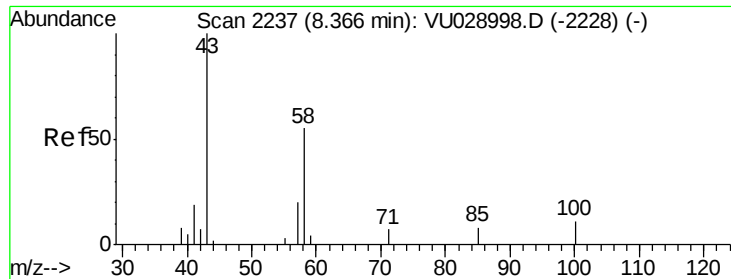
Tgt Ion: 76 Resp: 4969

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

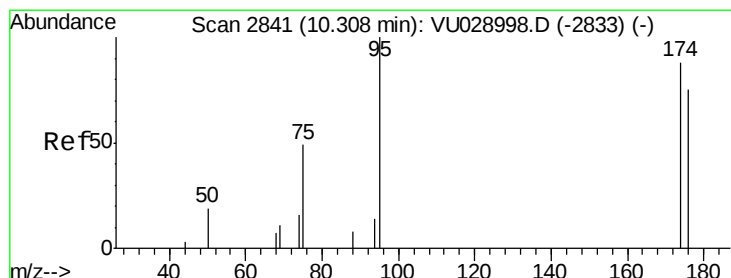
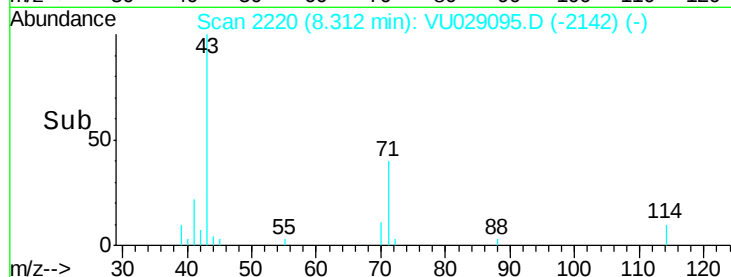
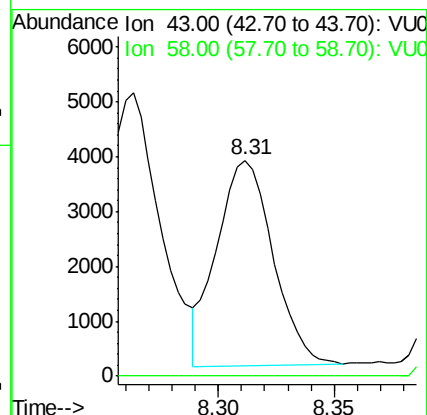
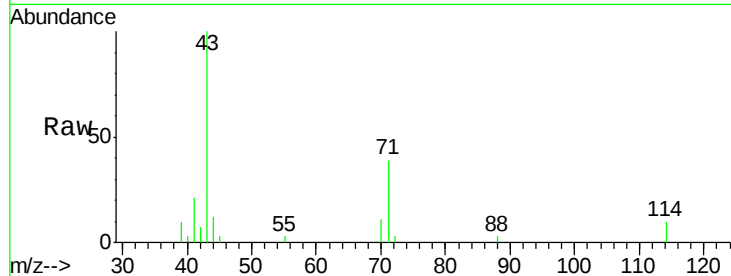




#59
2-Hexanone
Concen: 3.661 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU029095.D
Acq: 09 Jan 2019 17:26

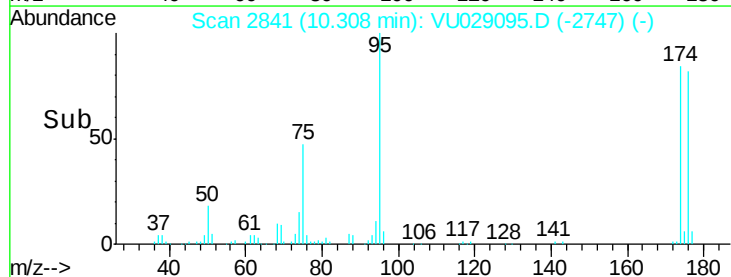
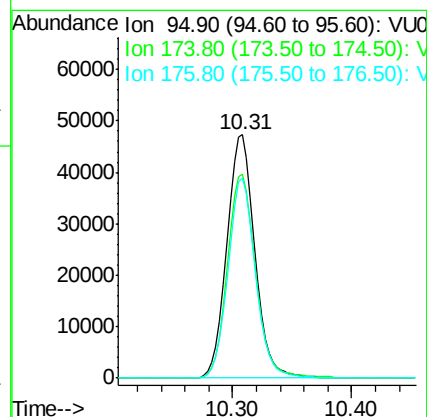
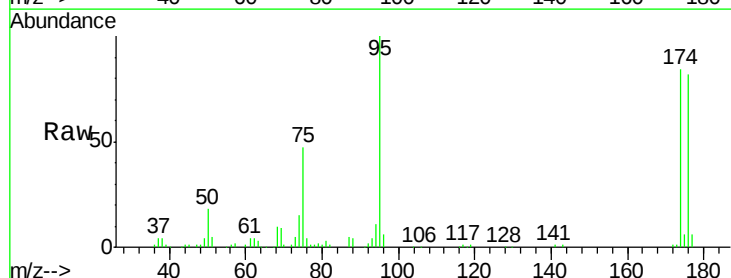
Instrument :
MSVOA_U
ClientSampleId :

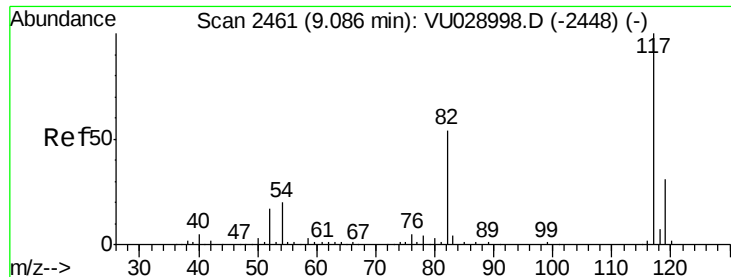
Tot Ion: 43 Resp: 6295
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 43.800 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU029095.D
Acq: 09 Jan 2019 17:26

Tgt Ion: 95 Resp: 77032
Ion Ratio Lower Upper
95 100
174 84.8 0.0 170.6
176 80.8 0.0 165.0

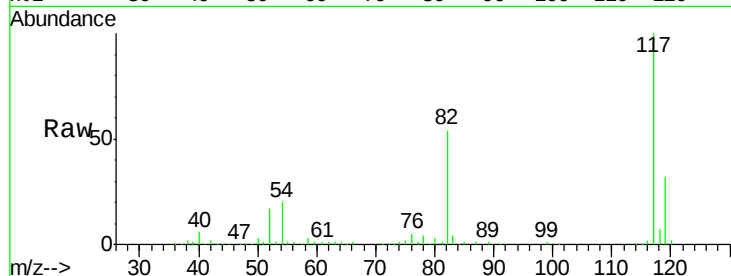




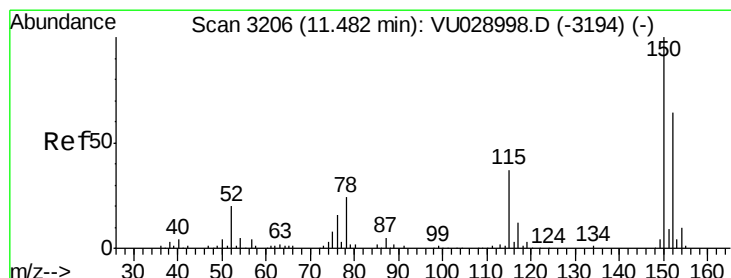
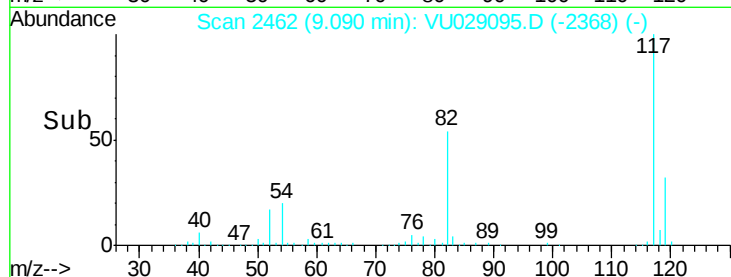
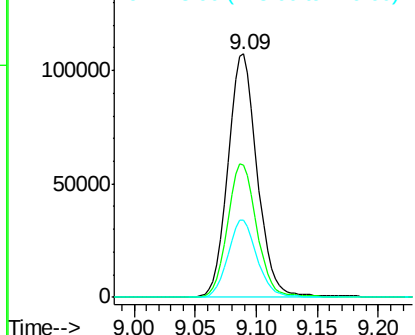
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029095.D
Acq: 09 Jan 2019 17:26

Instrument :
MSVOA_U
ClientSampleID :

Tot Ion:117 Resp: 179924
Ion Ratio Lower Upper
117 100
82 54.5 43.9 65.9
119 31.9 26.0 39.0

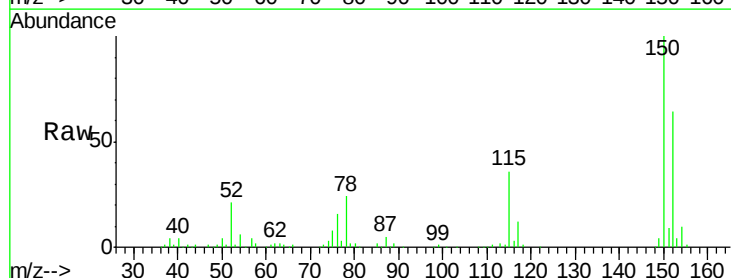


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

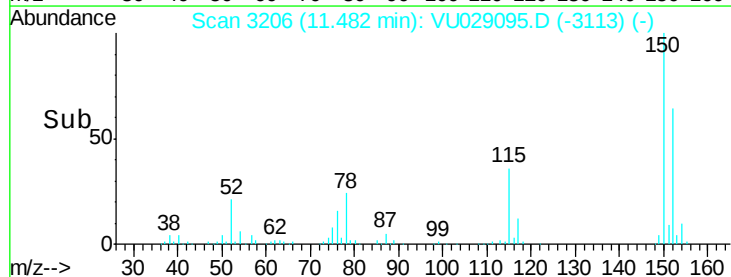
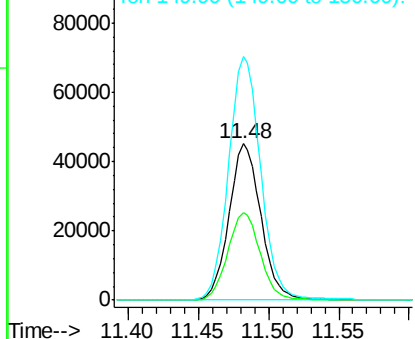


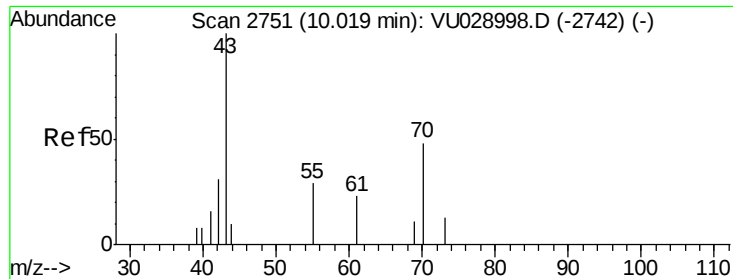
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029095.D
Acq: 09 Jan 2019 17:26

Tgt Ion:152 Resp: 71683
Ion Ratio Lower Upper
152 100
115 56.7 40.1 120.3
150 157.2 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-amvl acetate

Concen: 2.848 ug/l

RT: 9.76 min Scan# 2672

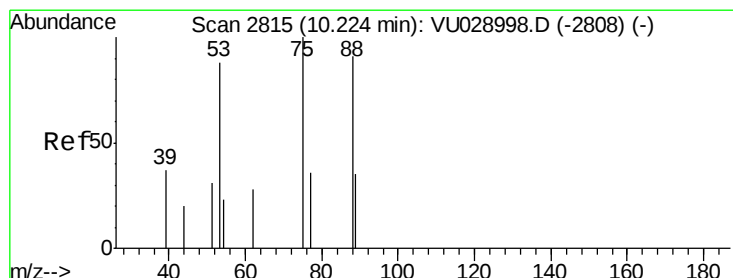
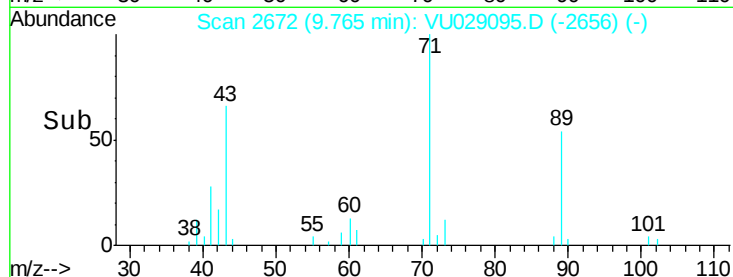
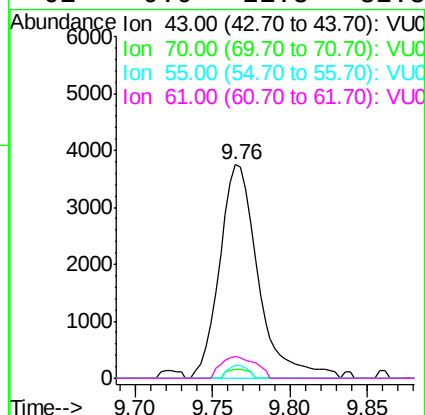
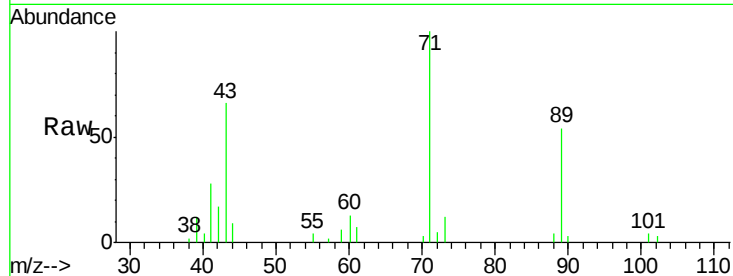
Delta R.T. -0.25 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	6511
Ion	Ratio	Lower	Upper
43	100		
70	2.4	36.3	54.5#
55	2.9	20.5	30.7#
61	9.0	21.8	32.8#



#76

1,2,3-Trichloropropane

Concen: 20.855 ug/l

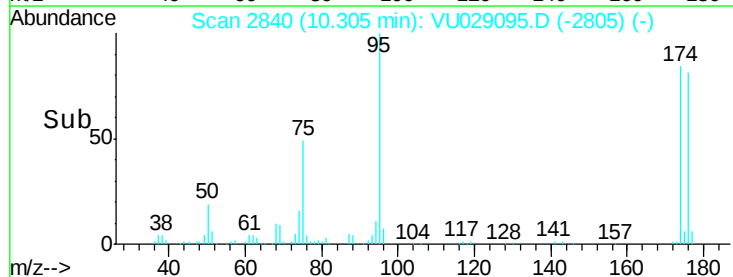
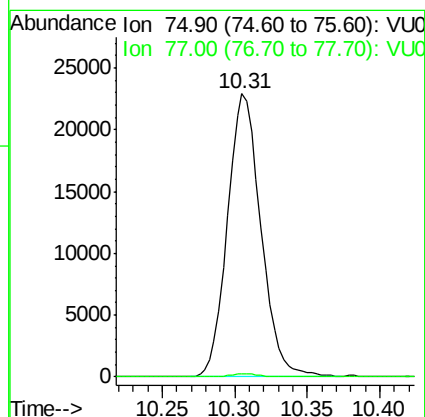
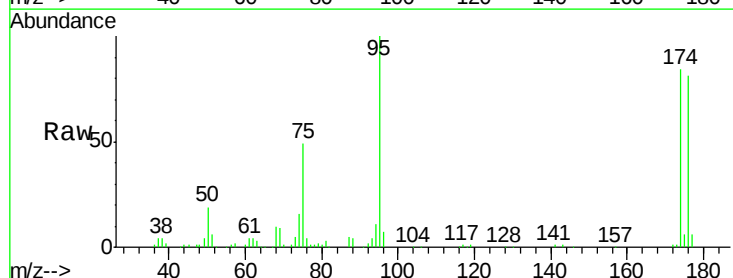
RT: 10.31 min Scan# 2840

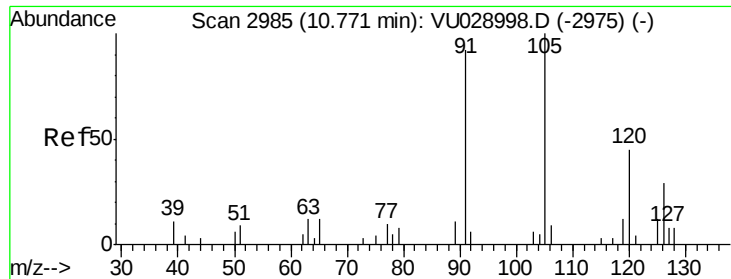
Delta R.T. -0.19 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Tgt Ion:	75	Resp:	36629
Ion	Ratio	Lower	Upper
75	100		
77	0.9	20.9	62.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.599 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

Instrument :

MSVOA_U

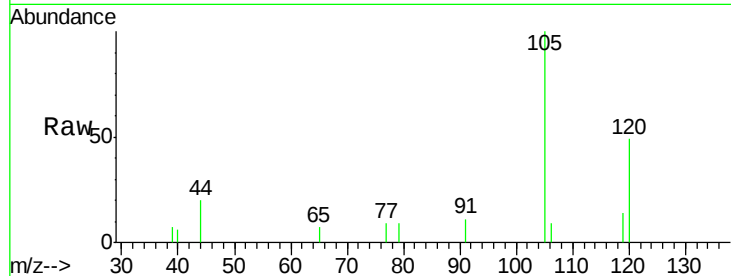
ClientSampled :

Tot Ion:105 Resp: 2653

Ion Ratio Lower Upper

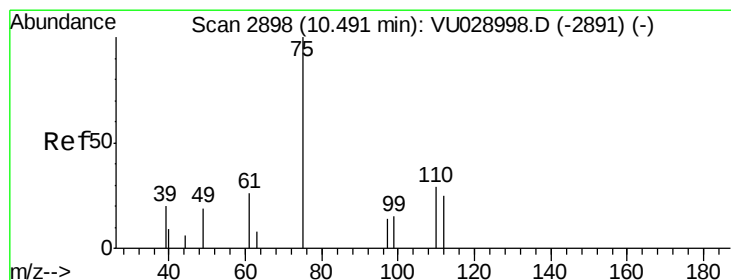
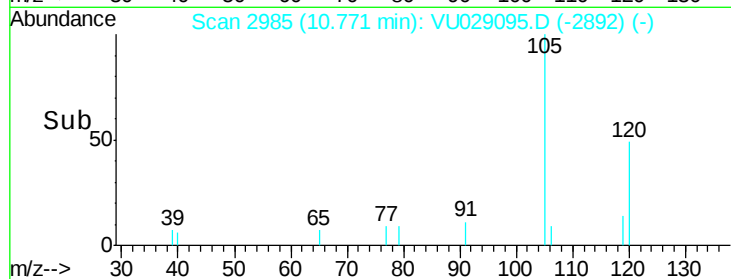
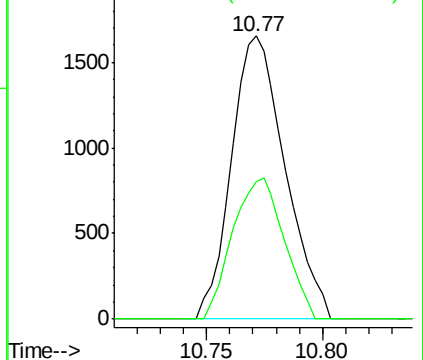
105 100

120 47.8 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: 53.787 ug/l

RT: 10.31 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU029095.D

Acq: 09 Jan 2019 17:26

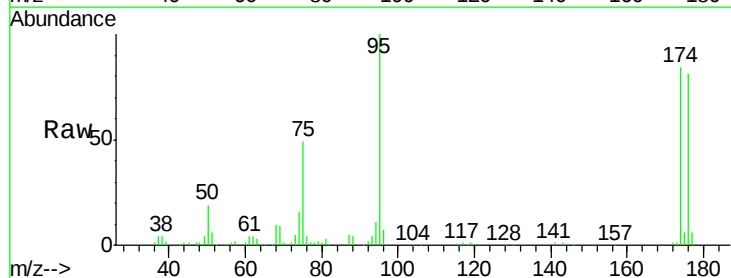
Tgt Ion: 75 Resp: 36629

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

