

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029089.D
 Acq On : 09 Jan 2019 15:00
 Operator : MD/SY
 Sample : PB116248ZHE#04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:05:36 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	109026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	189964	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	179762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72928	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	75227	55.82	ug/l	0.00
Spiked Amount			Recovery	=	111.64%	
35) Dibromofluoromethane	4.88	113	65567	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
50) Toluene-d8	7.56	98	249985	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
62) 4-Bromofluorobenzene	10.30	95	78391	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	

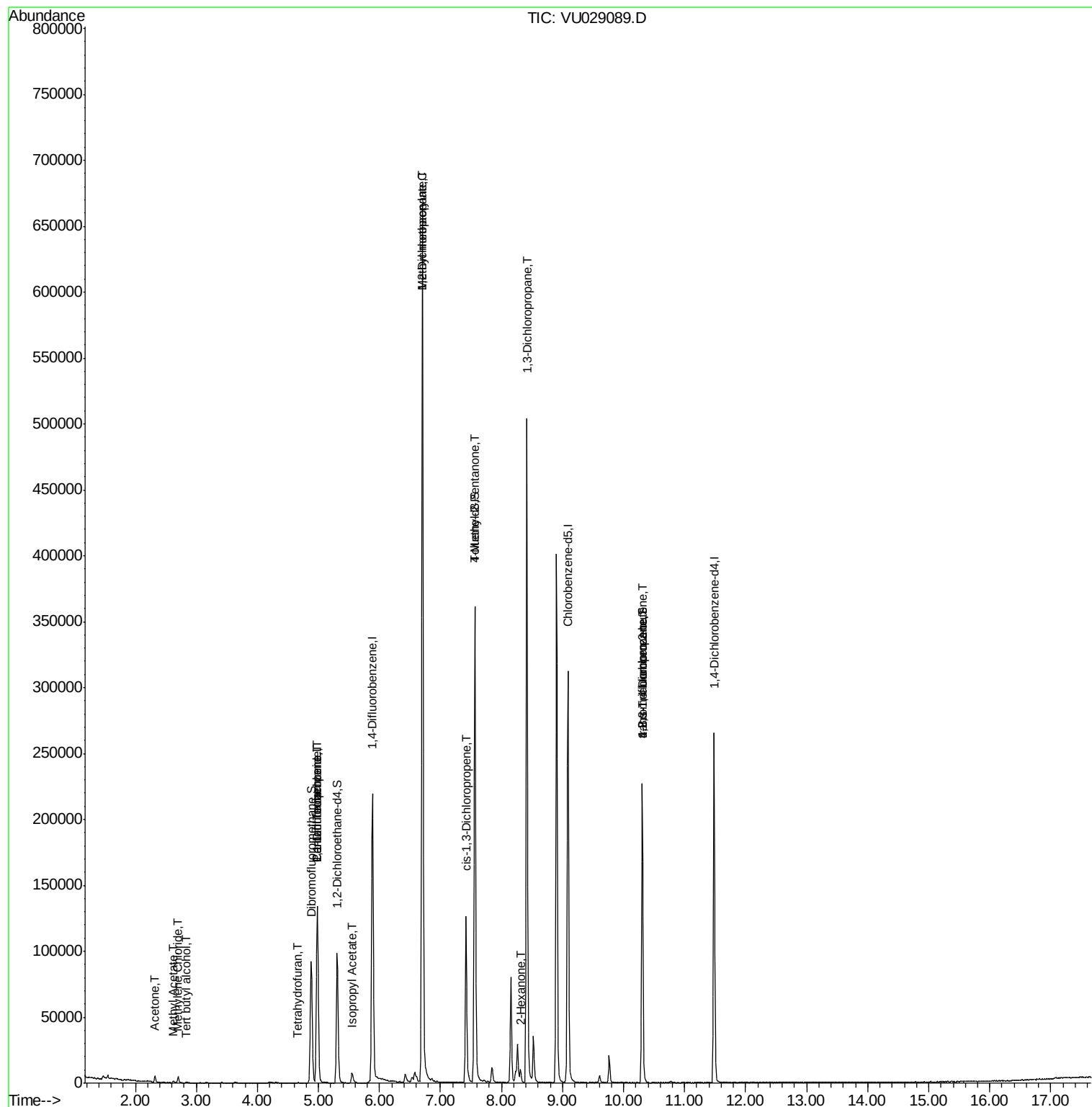
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	846	Below Cal	#	88
5) Bromomethane	1.63	94	121	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	106	0.309	ug/l #	73
16) Acetone	2.32	43	5452	6.421	ug/l	97
17) Carbon Disulfide	2.48	76	99	Below Cal	#	75
18) Methyl Acetate	2.62	43	1852	0.938	ug/l #	78
20) Methylene Chloride	2.70	84	2064	1.432	ug/l	94
29) Tetrahydrofuran	4.66	42	174	0.250	ug/l #	30
31) Cyclohexane	4.98	56	1988	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8014	4.221	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9514	6.008	ug/l #	18
43) Isopropyl Acetate	5.55	43	9566	2.992	ug/l	95
45) 1,2-Dichloropropane	6.70	63	751	0.480	ug/l #	43
48) Methyl methacrylate	6.70	41	55621	35.728	ug/l #	37
51) 4-Methyl-2-Pentanone	7.56	43	4343	1.996	ug/l	96
54) cis-1,3-Dichloropropene	7.42	75	23180	9.700	ug/l #	62
57) 1,3-Dichloropropane	8.41	76	5045	2.041	ug/l #	42
59) 2-Hexanone	8.31	43	7348	4.302	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	37271	20.858	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	37271	53.795	ug/l #	100

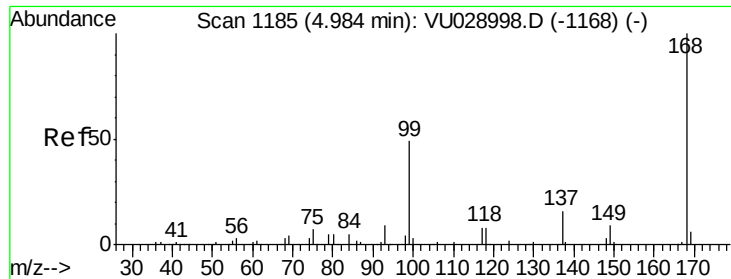
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 04 02:22:53 2019
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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: VU029089.D

Acq: 09 Jan 2019 15:00

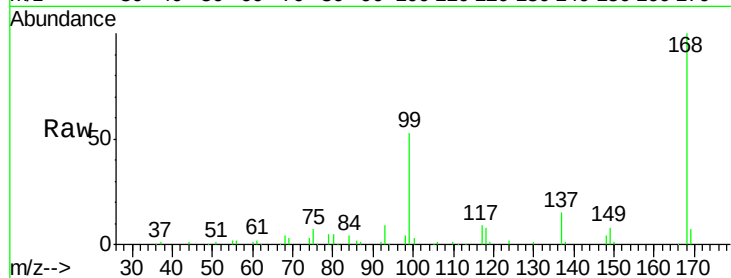
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 109026

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

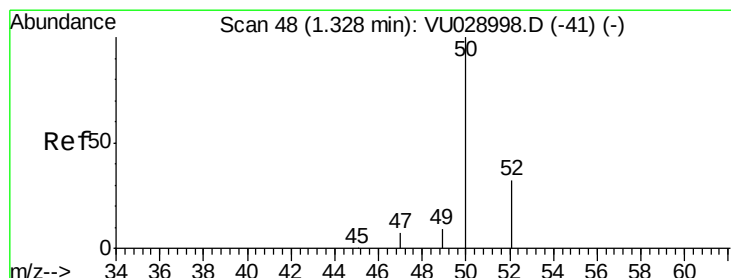
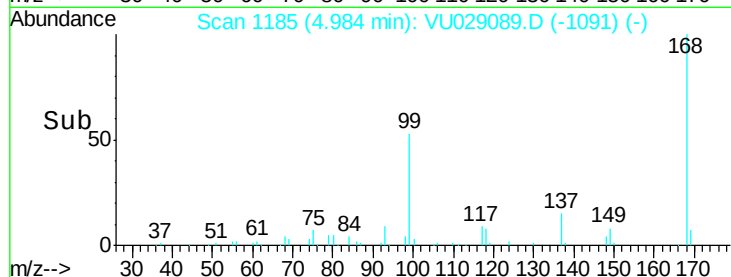
20000

10000

0

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: VU029089.D

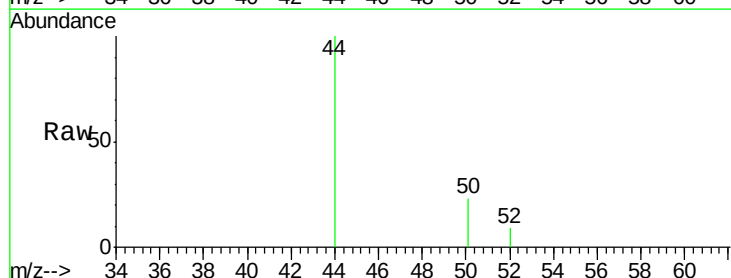
Acq: 09 Jan 2019 15:00

Tgt Ion: 50 Resp: 846

Ion Ratio Lower Upper

50 100

52 39.6 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

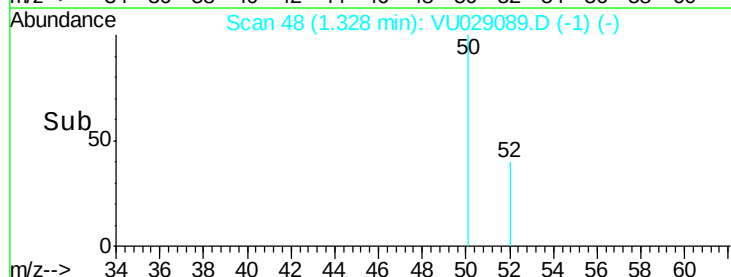
400

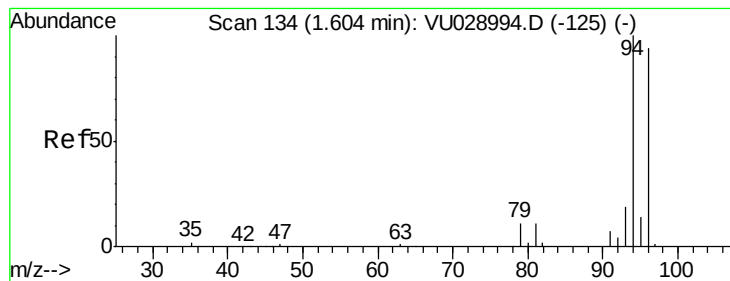
200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 143

Delta R.T. 0.03 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Instrument :

MSVOA_U

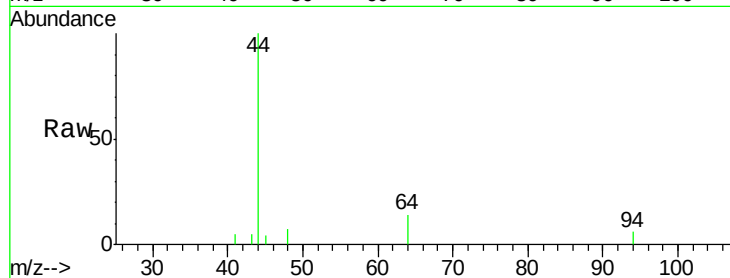
ClientSampleId :

Tot Ion: 94 Resp: 121

Ion Ratio Lower Upper

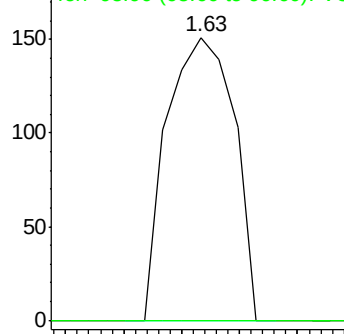
94 100

96 0.0 75.5 113.3#

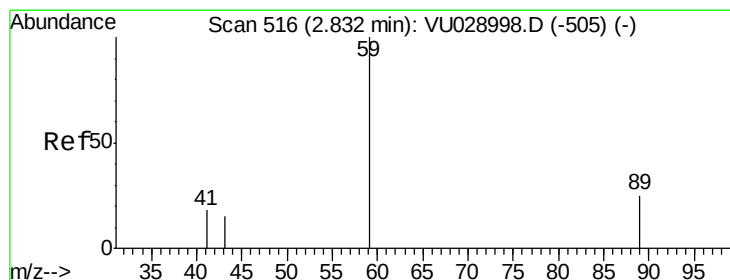
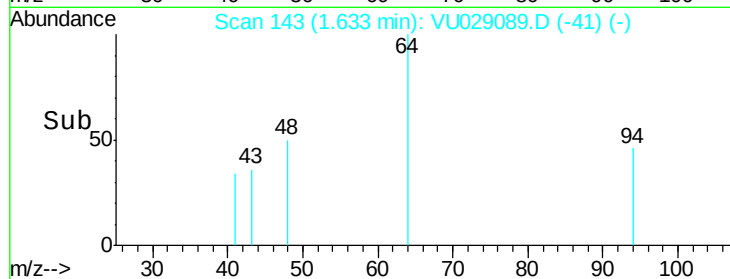


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time--> 1.61 1.62 1.63 1.64 1.65



#11

Tert butyl alcohol

Concen: 0.309 ug/l

RT: 2.83 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU029089.D

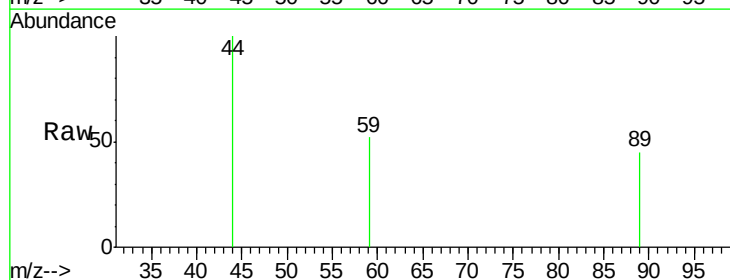
Acq: 09 Jan 2019 15:00

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

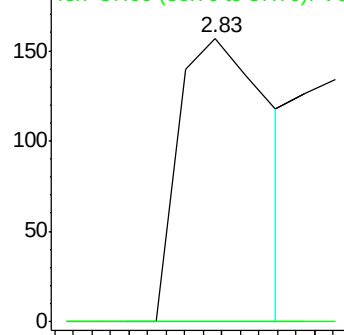
59 100

57 0.0 7.9 11.9#

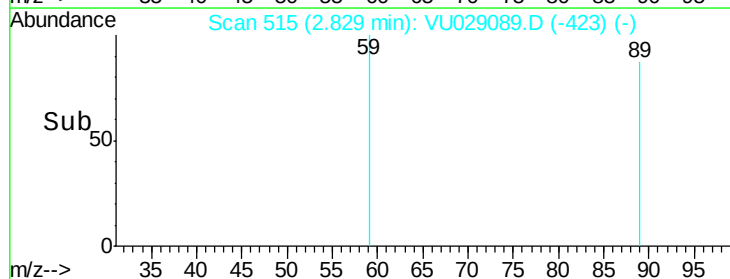


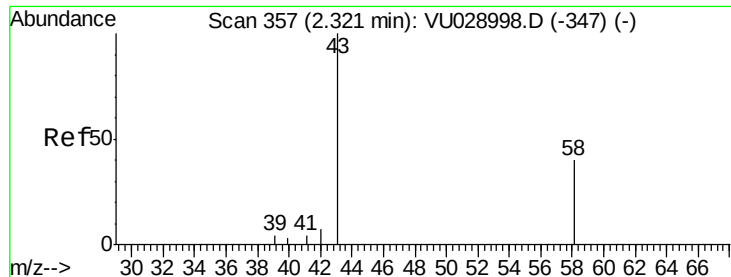
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time--> 2.82 2.83 2.84

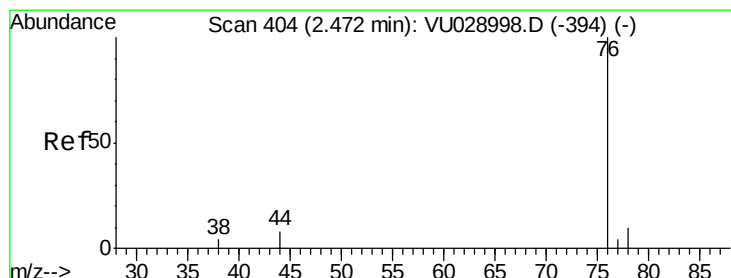
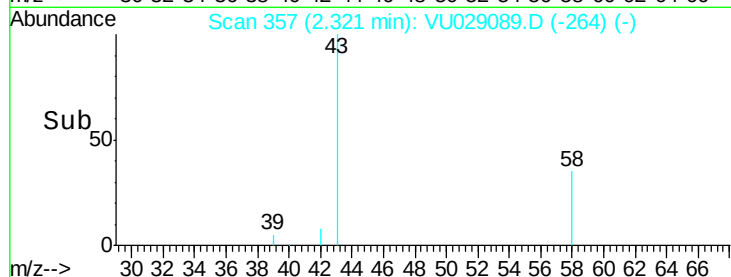
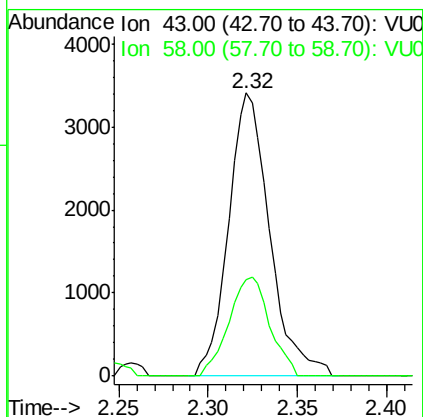
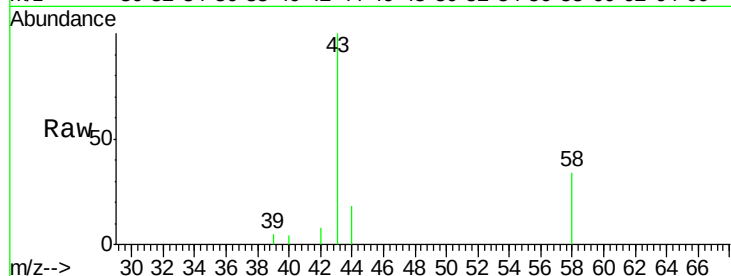




#16
Acetone
Concen: 6.421 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

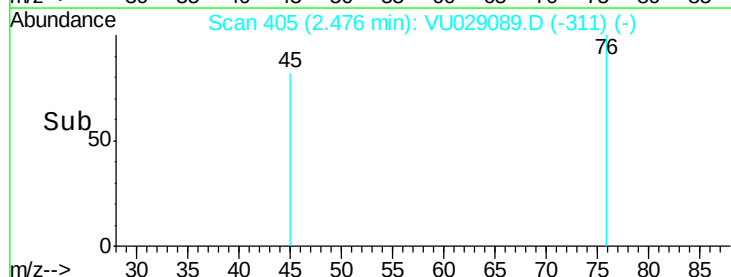
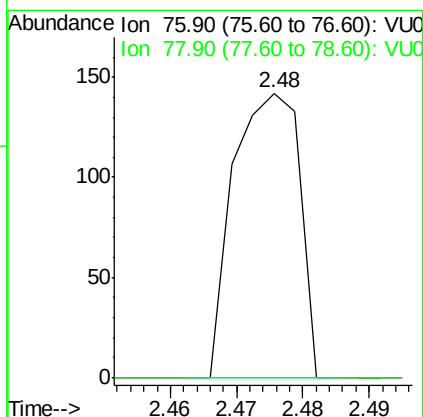
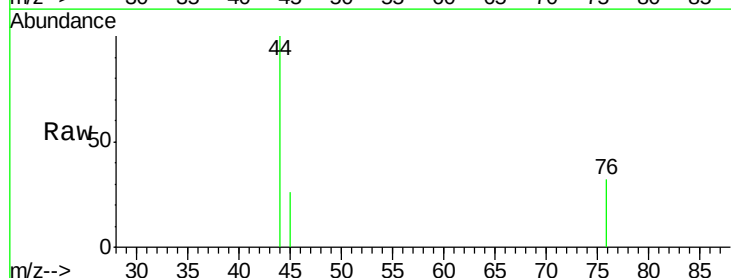
Instrument :
MSVOA_U
ClientSampleId :

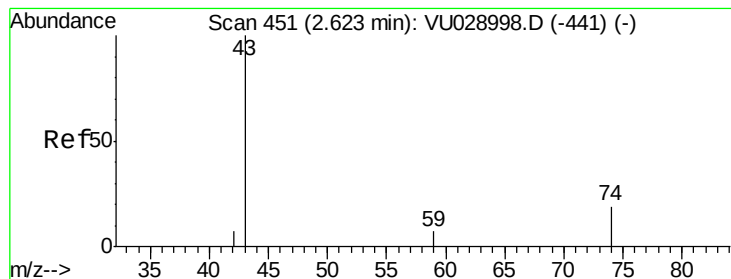
Tot Ion: 43 Resp: 5452
Ion Ratio Lower Upper
43 100
58 34.2 28.6 42.8



#17
Carbon Disulfide
Concen: Below Cal
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

Tgt Ion: 76 Resp: 99
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#





#18

Methvl Acetate

Concen: 0.938 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Instrument :

MSVOA_U

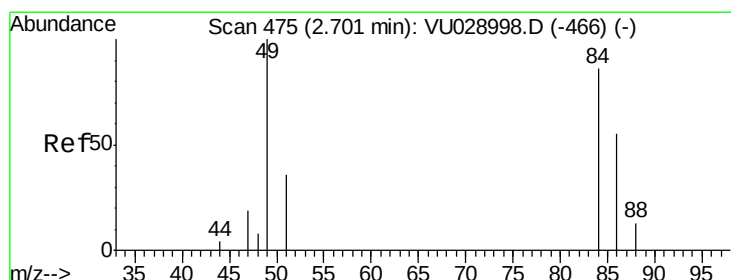
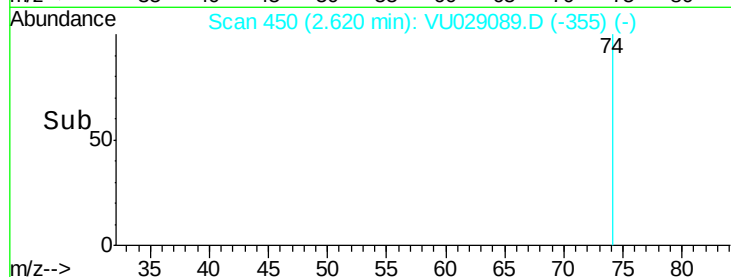
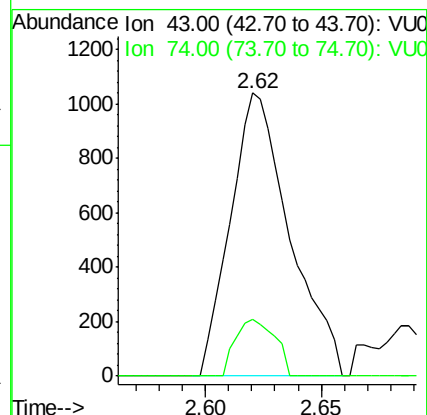
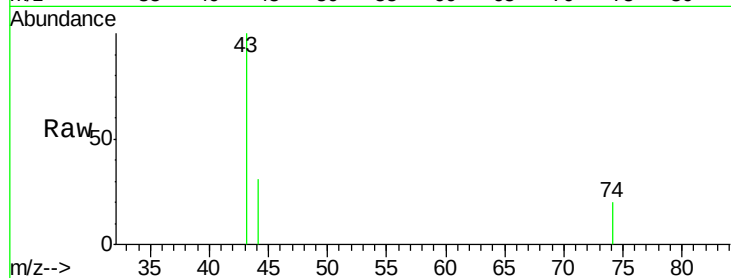
ClientSampleId :

Tot Ion: 43 Resp: 1852

Ion Ratio Lower Upper

43 100

74 13.4 19.5 29.3#



#20

Methylene Chloride

Concen: 1.432 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Tgt Ion: 84 Resp: 2064

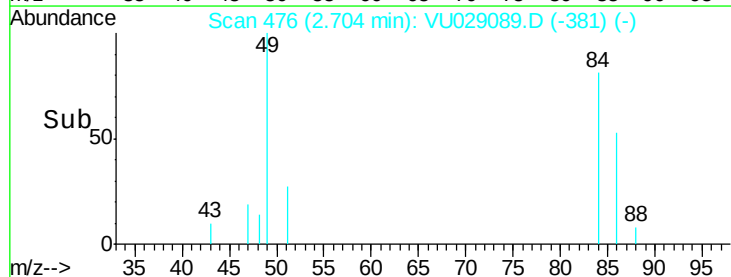
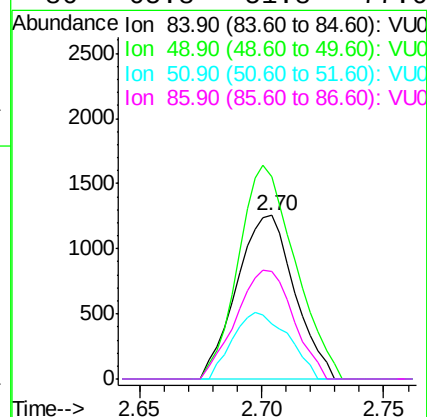
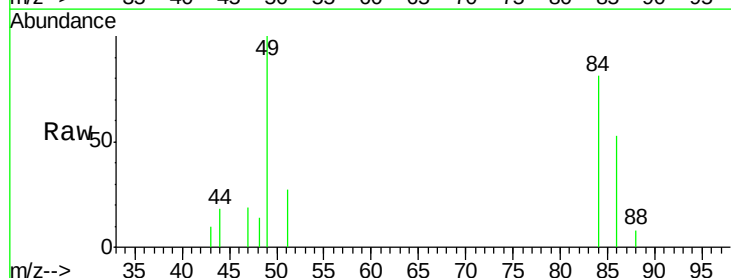
Ion Ratio Lower Upper

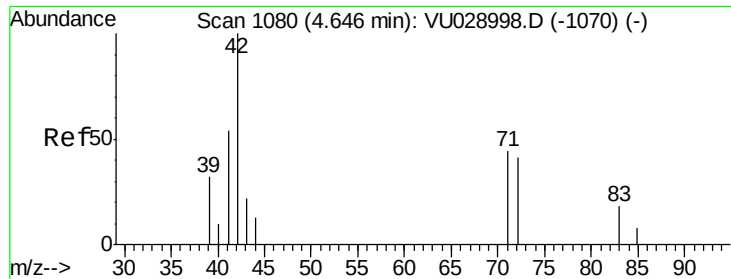
84 100

49 124.1 91.9 137.9

51 34.1 29.2 43.8

86 65.8 51.8 77.6





#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Instrument :

MSVOA_U

ClientSampleId :

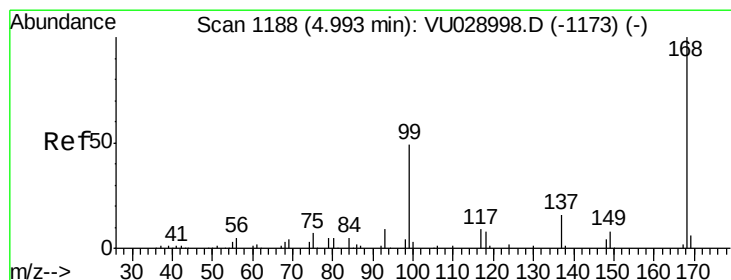
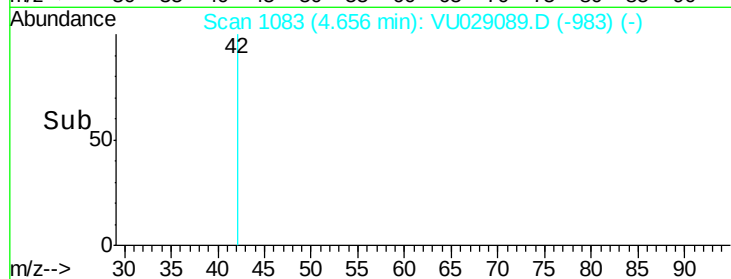
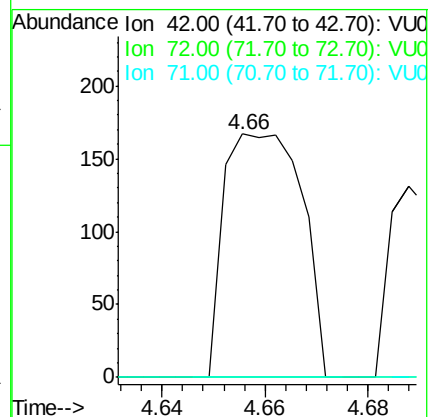
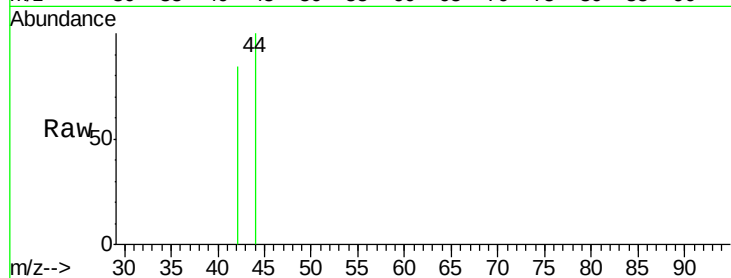
Tot Ion: 42 Resp: 174

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 0.0 36.1 54.1#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

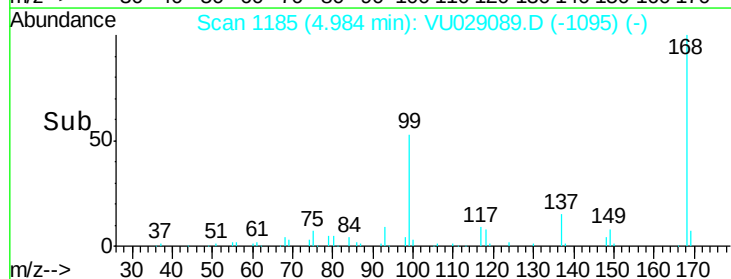
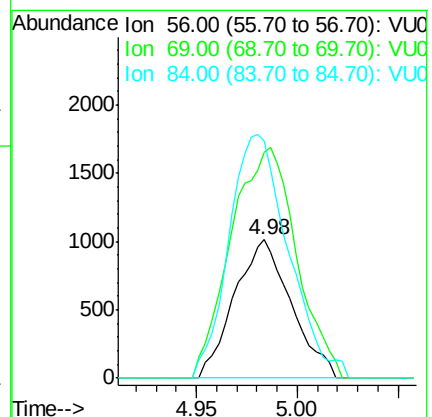
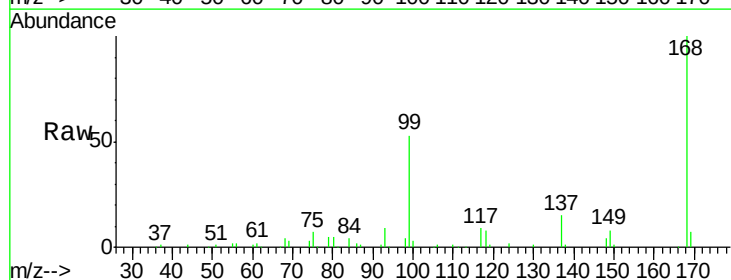
Tgt Ion: 56 Resp: 1988

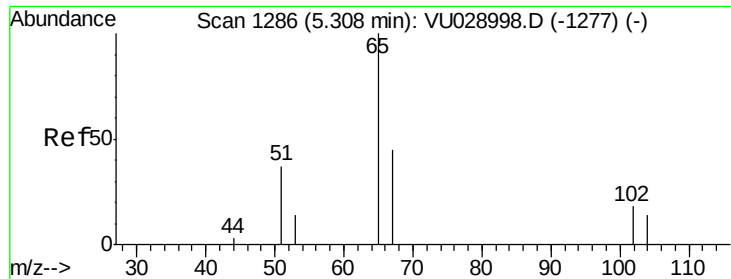
Ion Ratio Lower Upper

56 100

69 163.5 26.7 40.1#

84 171.3 65.7 98.5#

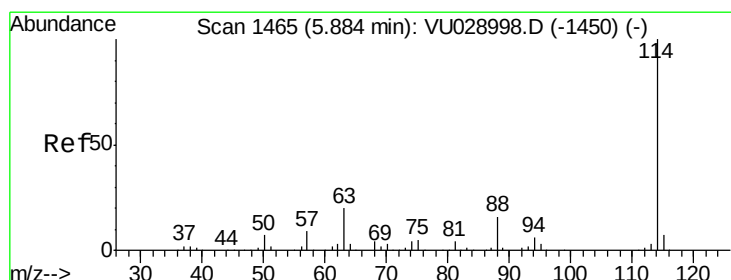
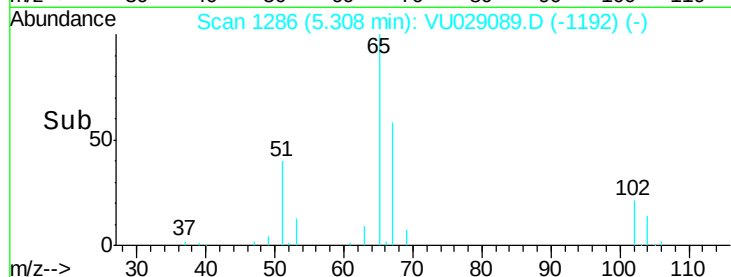
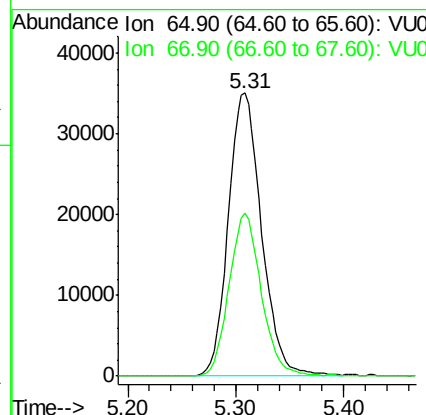
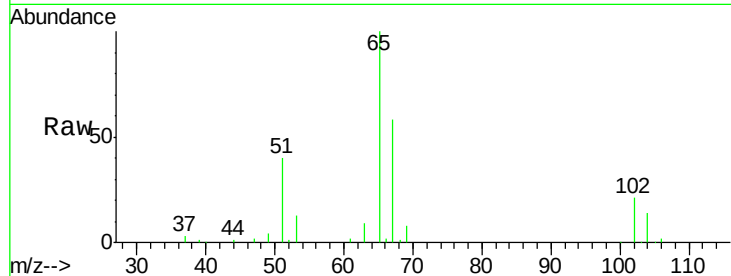




#33
 1,2-Dichloroethane-d4
 Concen: 55.816 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU029089.D
 Acq: 09 Jan 2019 15:00

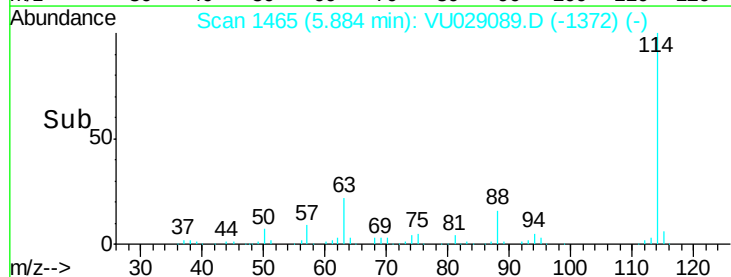
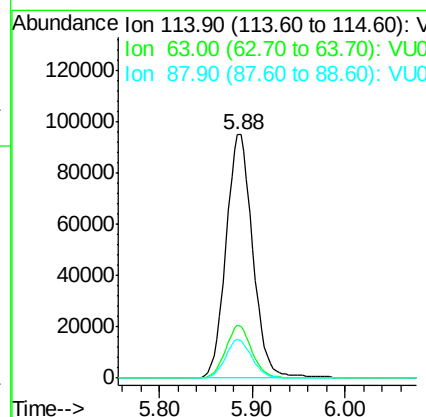
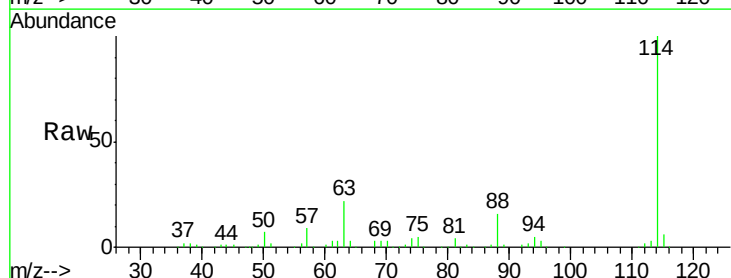
Instrument :
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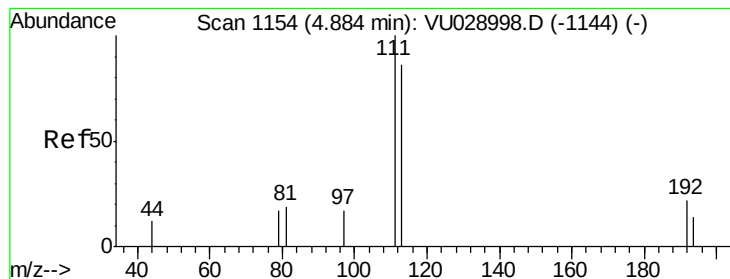
Tot Ion: 65 Resp: 75227
 Ion Ratio Lower Upper
 65 100
 67 55.8 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029089.D
 Acq: 09 Jan 2019 15:00

Tgt Ion: 114 Resp: 189964
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 40.2
 88 16.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.246 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Instrument :
MSVOA_U
ClientSampleId :

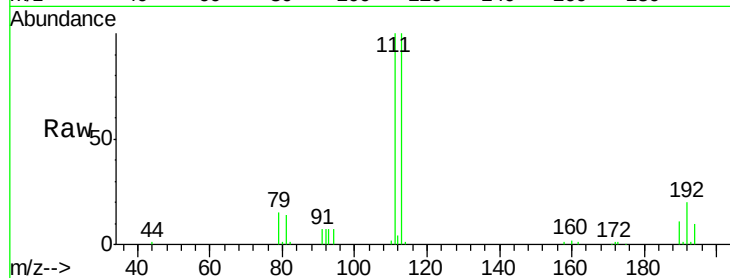
Tot Ion:113 Resp: 65567

Ion Ratio Lower Upper

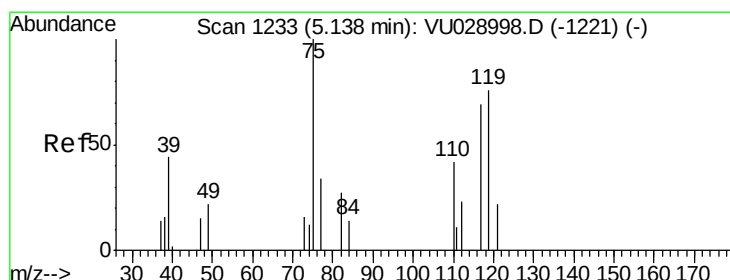
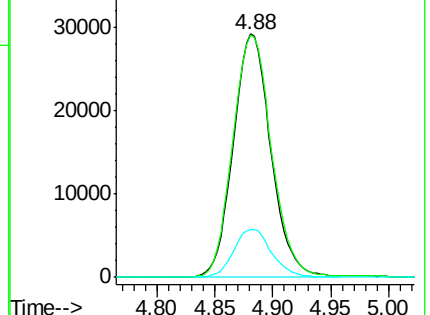
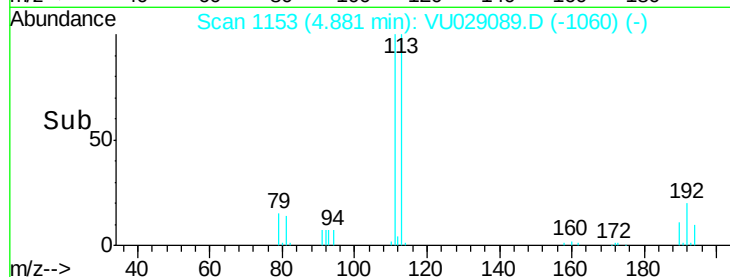
113 100

111 102.6 81.4 122.2

192 20.0 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: 4.221 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

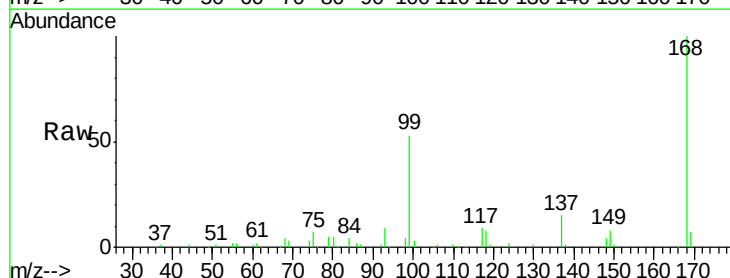
Tgt Ion: 75 Resp: 8014

Ion Ratio Lower Upper

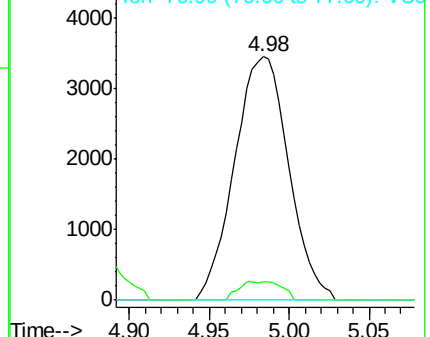
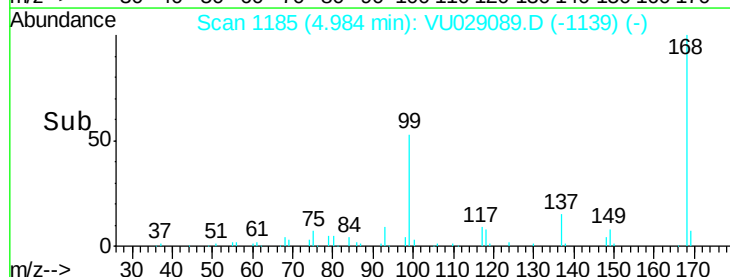
75 100

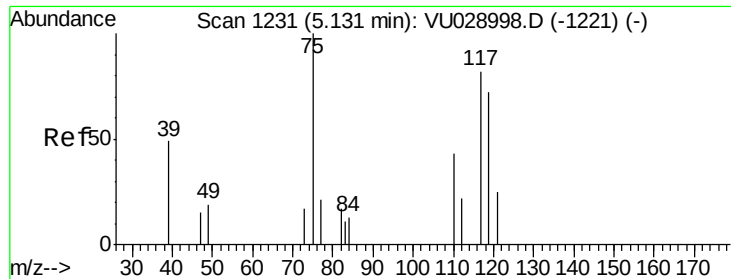
110 5.9 18.4 55.4#

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

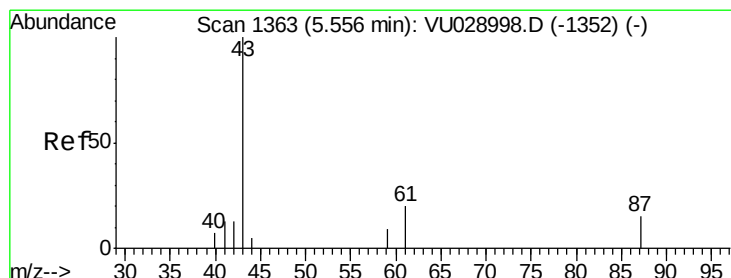
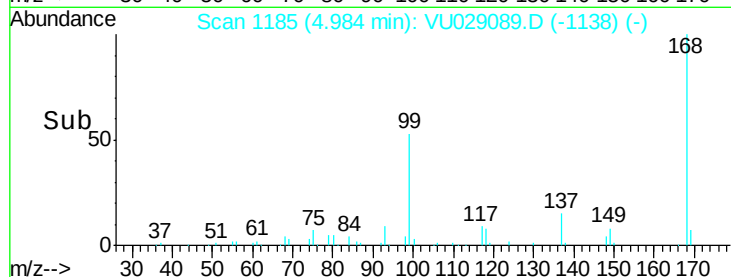
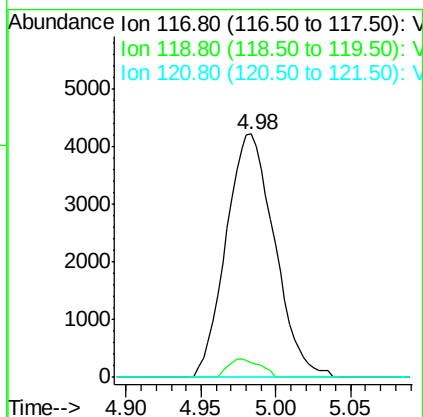
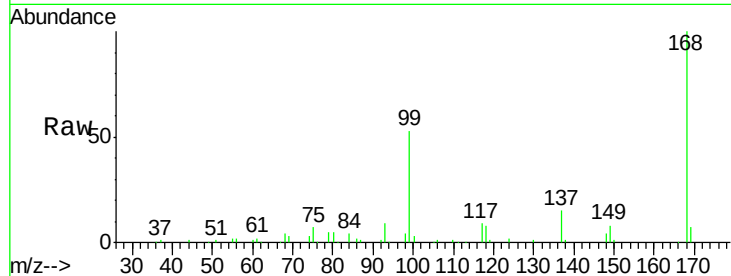




#38
Carbon Tetrachloride
Concen: 6.008 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

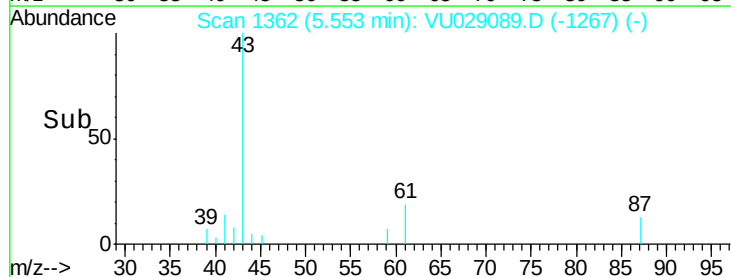
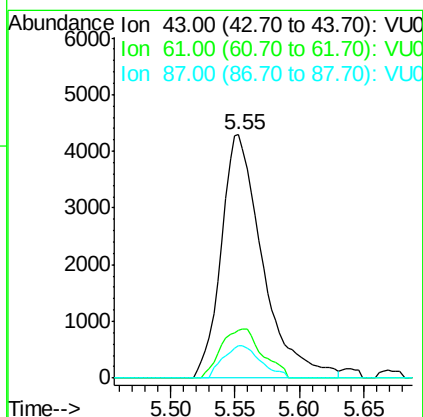
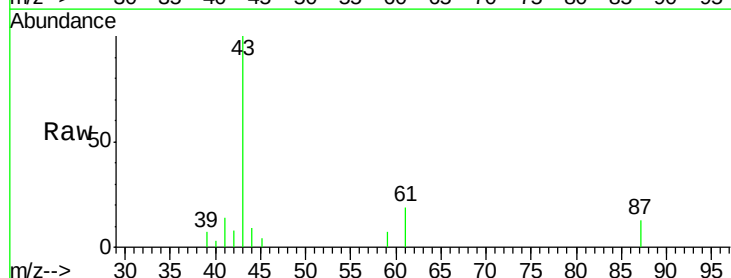
Instrument :
MSVOA_U
ClientSampleId :

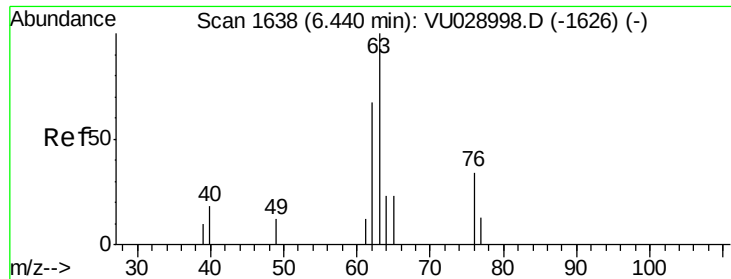
Tot Ion:117 Resp: 9514
Ion Ratio Lower Upper
117 100
119 6.0 74.6 111.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.992 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

Tgt Ion: 43 Resp: 9566
Ion Ratio Lower Upper
43 100
61 19.9 17.8 26.6
87 12.0 11.3 16.9

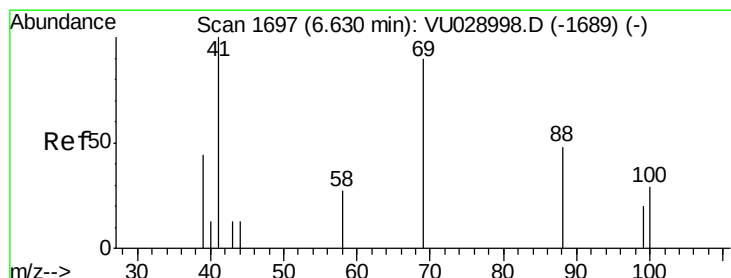
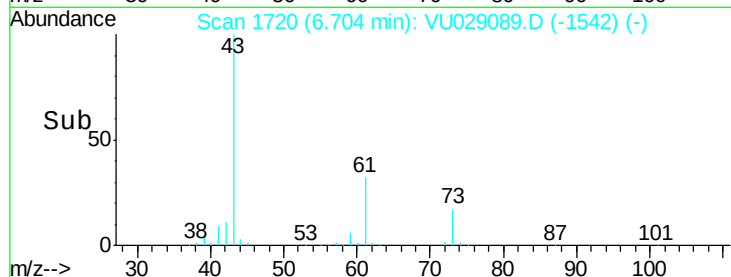
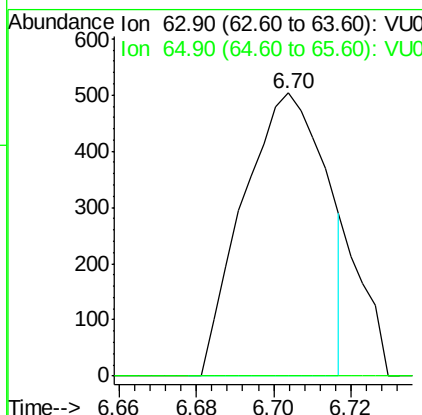
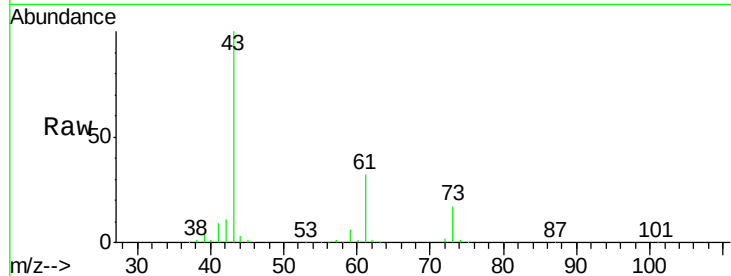




#45
 1,2-Dichloropropane
 Concen: 0.480 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.27 min
 Lab File: VU029089.D
 Acq: 09 Jan 2019 15:00

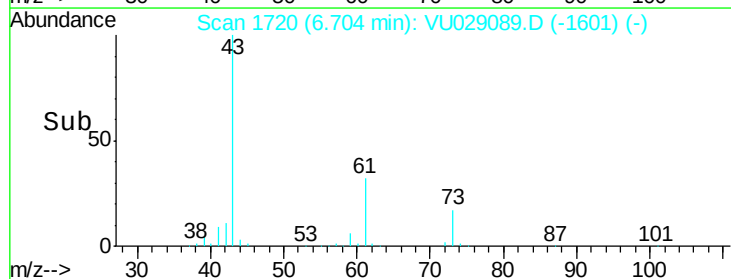
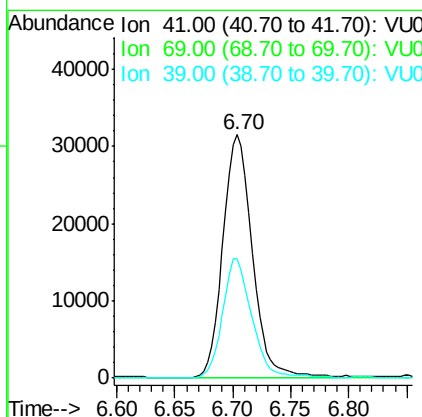
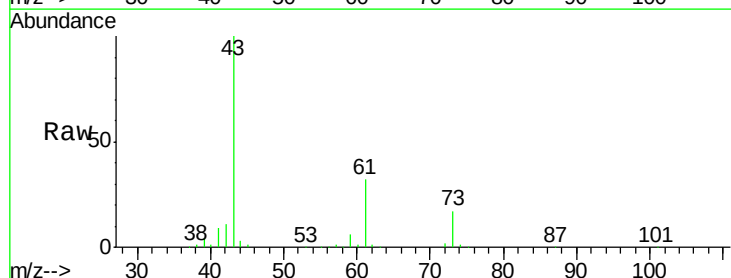
Instrument :
 MSVOA_U
 ClientSampleId :

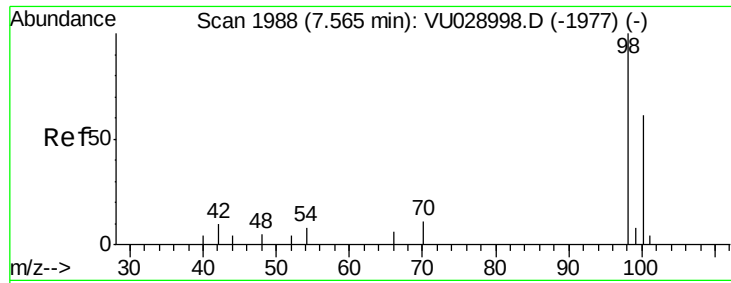
Tot Ion: 63 Resp: 751
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 35.728 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.08 min
 Lab File: VU029089.D
 Acq: 09 Jan 2019 15:00

Tgt Ion: 41 Resp: 55621
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.6 110.4#
 39 48.2 39.6 59.4





#50

Toluene-d8

Concen: 51.422 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Instrument :

MSVOA_U

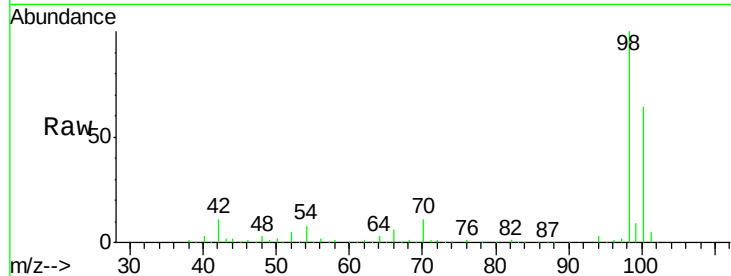
ClientSampleId :

Tot Ion: 98 Resp: 249985

Ion Ratio Lower Upper

98 100

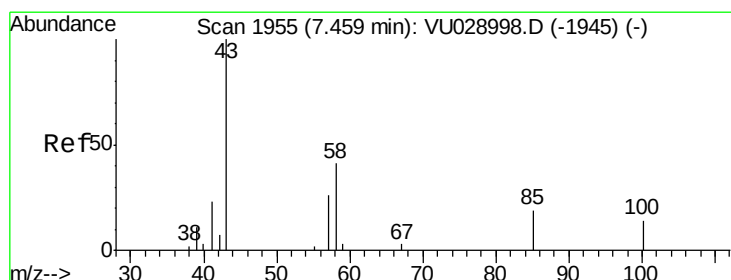
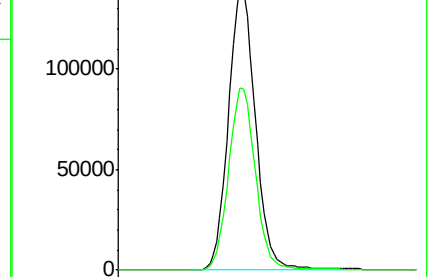
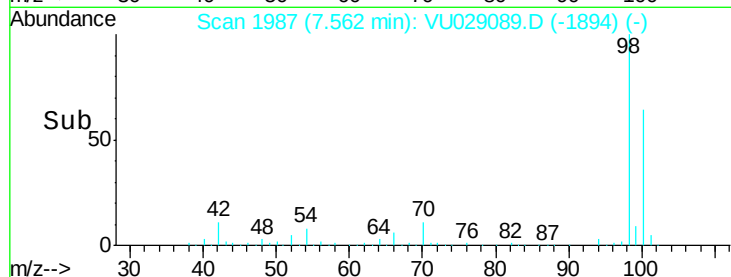
100 63.8 51.6 77.4



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



#51

4-Methyl-2-Pentanone

Concen: 1.996 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029089.D

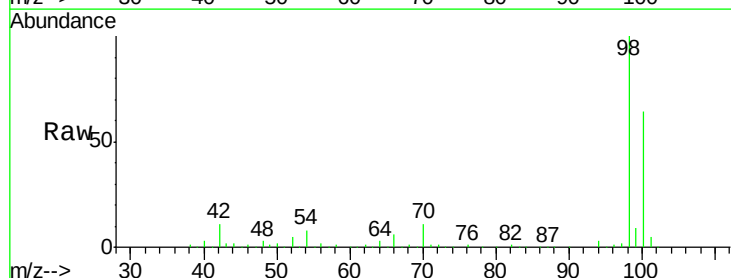
Acq: 09 Jan 2019 15:00

Tgt Ion: 43 Resp: 4343

Ion Ratio Lower Upper

43 100

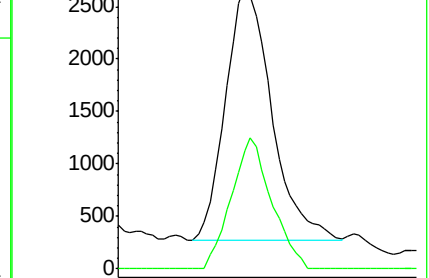
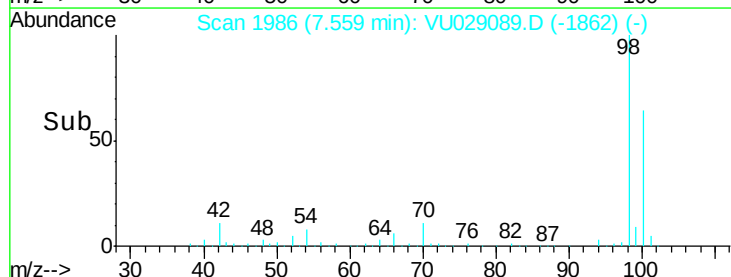
58 44.9 33.9 50.9

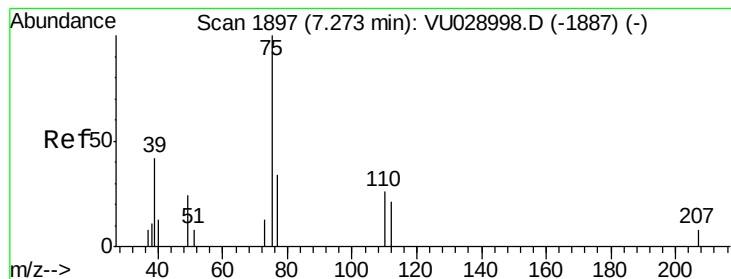


Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1945) (-)

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

7.56



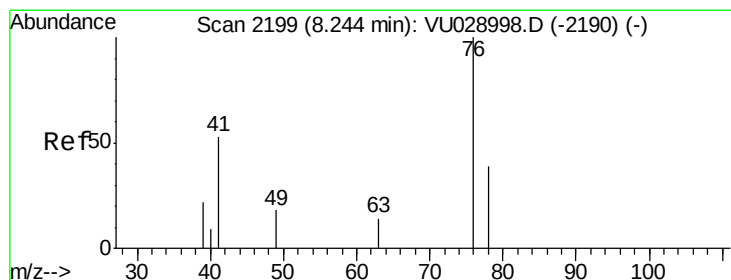
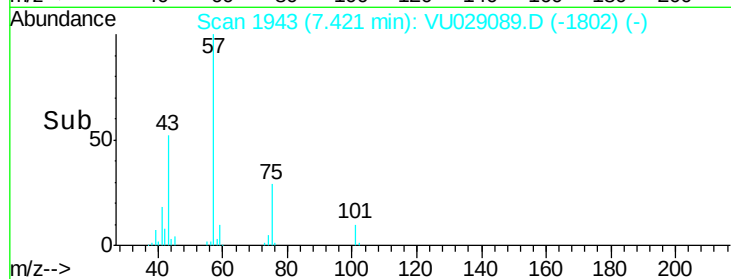
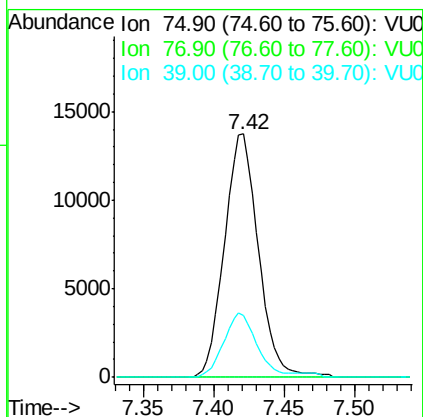
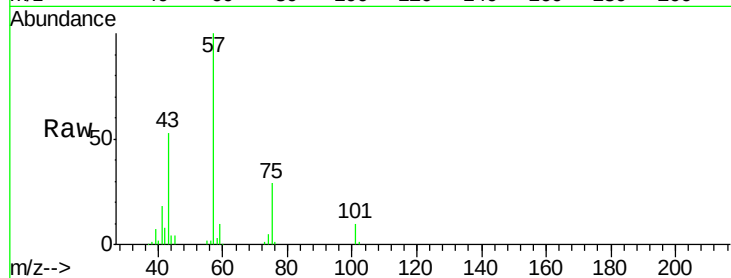


#54

cis-1,3-Dichloropropene
 Concen: 9.700 ug/l
 RT: 7.42 min Scan# 1943
 Delta R.T. 0.15 min
 Lab File: VU029089.D
 Acq: 09 Jan 2019 15:00

Instrument :
 MSVOA_U
 ClientSampled :

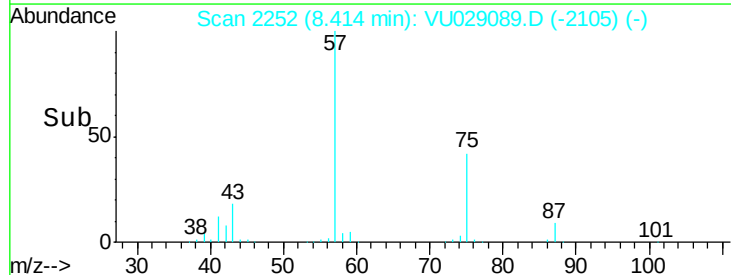
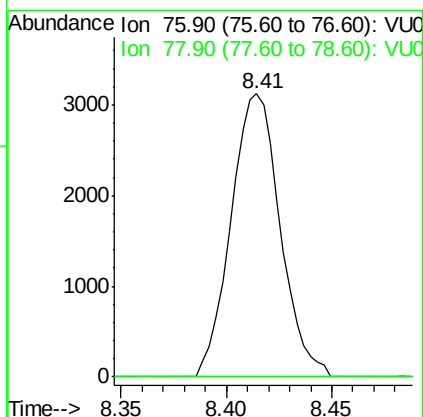
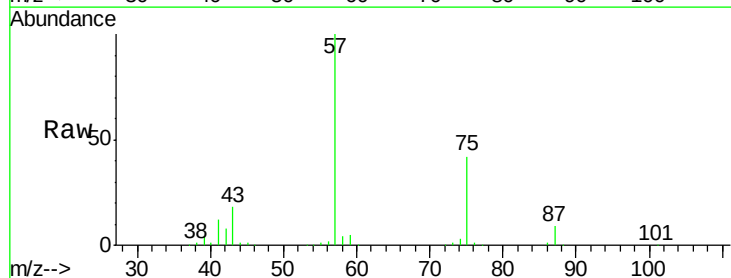
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	25.6	32.2	48.4#

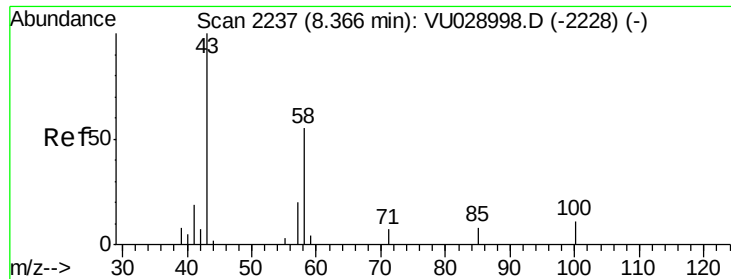


#57

1,3-Dichloropropane
 Concen: 2.041 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029089.D
 Acq: 09 Jan 2019 15:00

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.0	39.0#

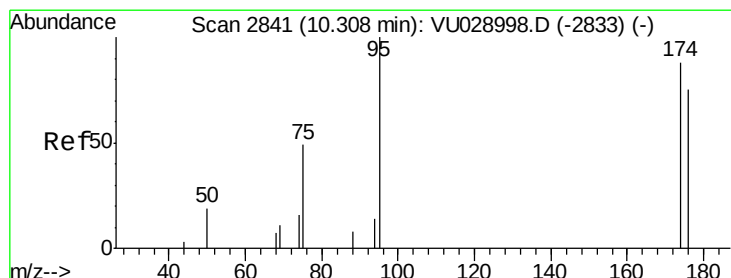
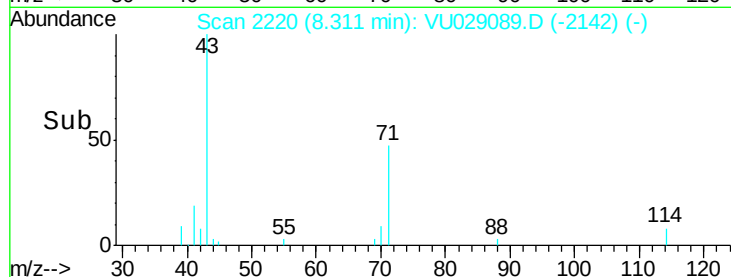
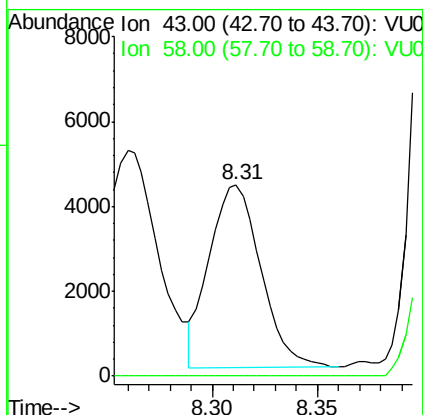
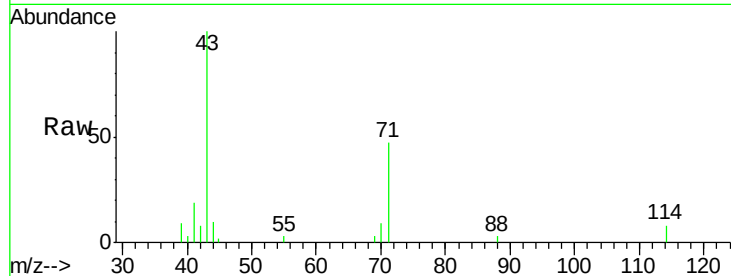




#59
2-Hexanone
Concen: 4.302 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

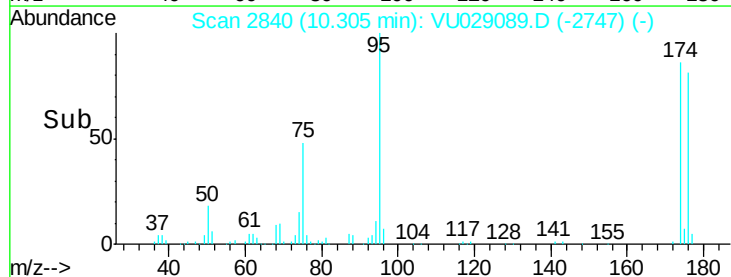
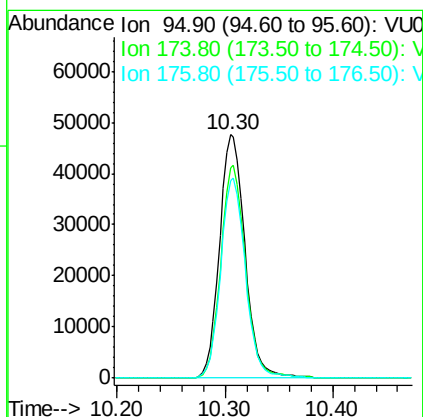
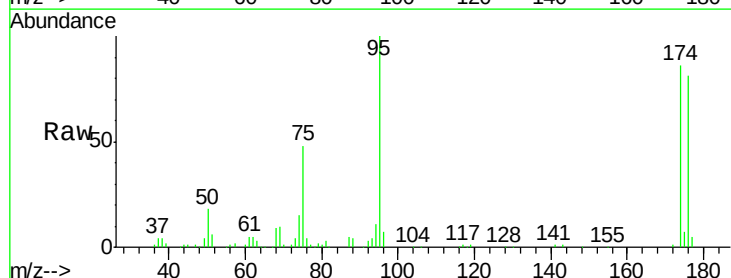
Instrument :
MSVOA_U
ClientSampleId :

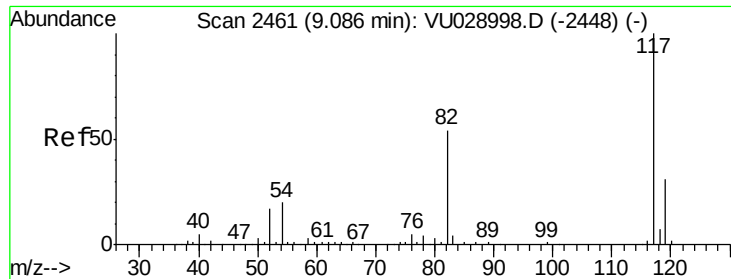
Tot Ion: 43 Resp: 7348
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 44.869 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

Tgt Ion: 95 Resp: 78391
Ion Ratio Lower Upper
95 100
174 84.9 0.0 170.6
176 80.1 0.0 165.0

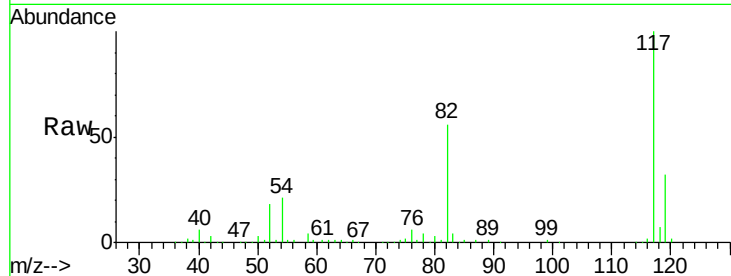




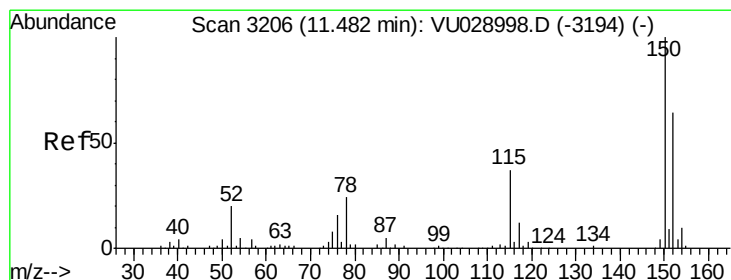
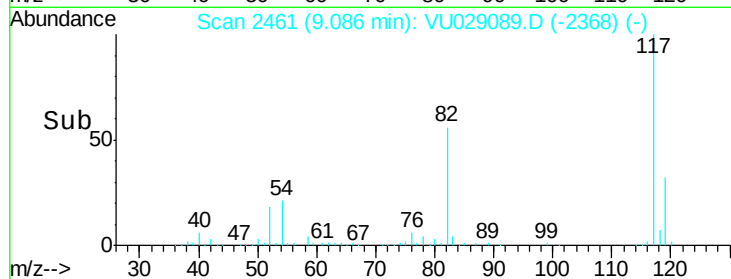
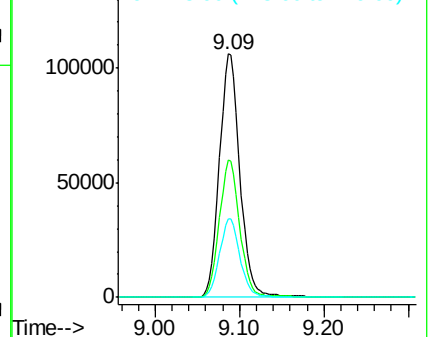
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 179762
Ion Ratio Lower Upper
117 100
82 56.4 43.9 65.9
119 32.4 26.0 39.0

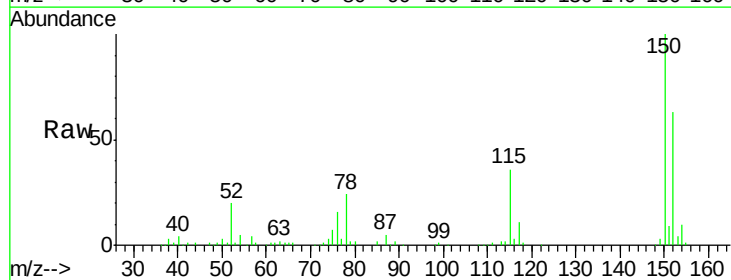


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

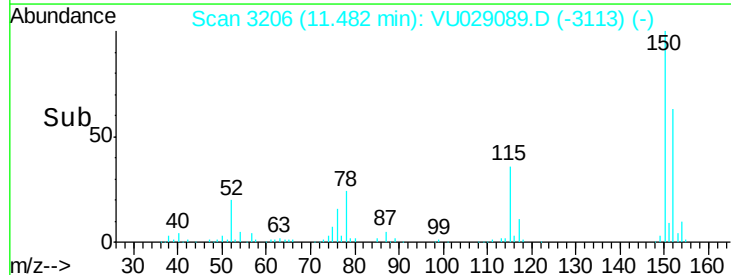
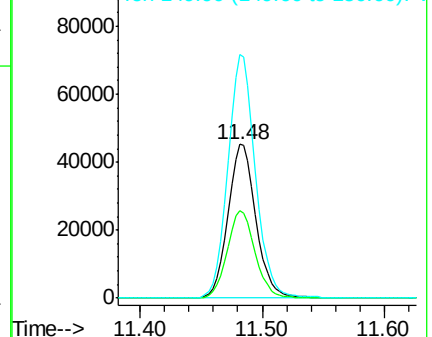


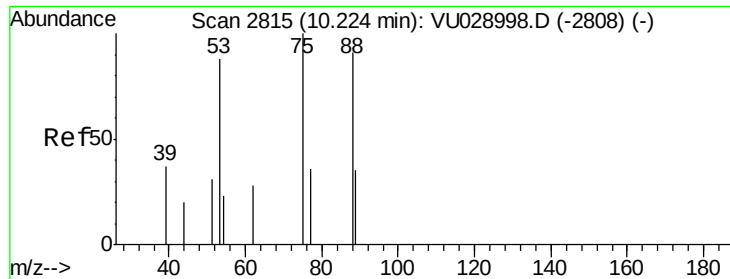
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029089.D
Acq: 09 Jan 2019 15:00

Tgt Ion:152 Resp: 72928
Ion Ratio Lower Upper
152 100
115 56.4 40.1 120.3
150 155.8 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: 20.858 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

Instrument :

MSVOA_U

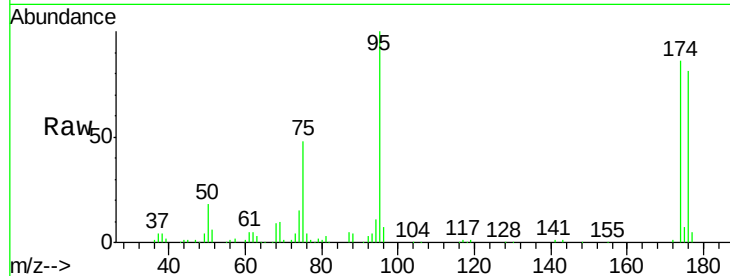
ClientSampled :

Tot Ion: 75 Resp: 37271

Ion Ratio Lower Upper

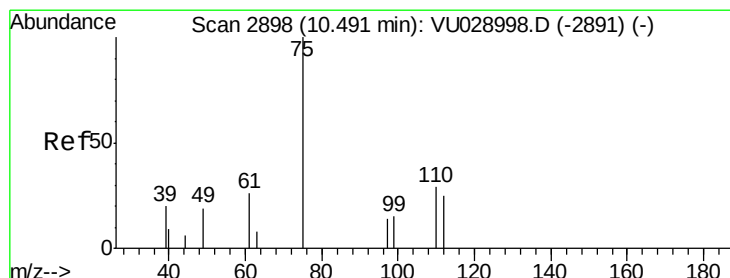
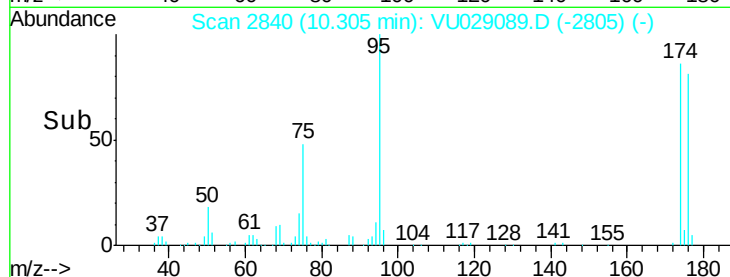
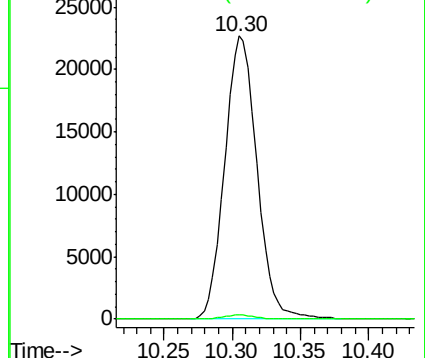
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 53.795 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029089.D

Acq: 09 Jan 2019 15:00

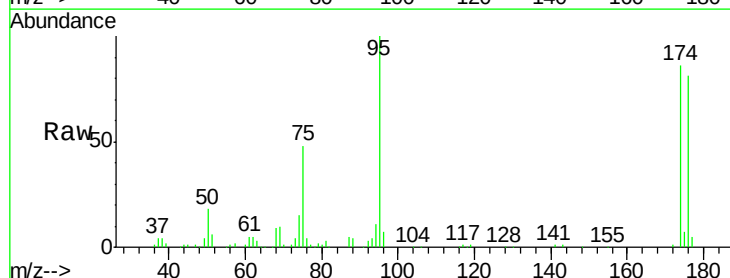
Tgt Ion: 75 Resp: 37271

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

