

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029088.D
 Acq On : 09 Jan 2019 14:36
 Operator : MD/SY
 Sample : PB116248ZHE#03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:05:18 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	111451	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	190187	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	177975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69763	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	74291	53.92	ug/l	0.00
Spiked Amount			Recovery	=	107.84%	
35) Dibromofluoromethane	4.88	113	65681	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	
50) Toluene-d8	7.56	98	244744	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	10.30	95	77181	44.12	ug/l	0.00
Spiked Amount			Recovery	=	88.24%	

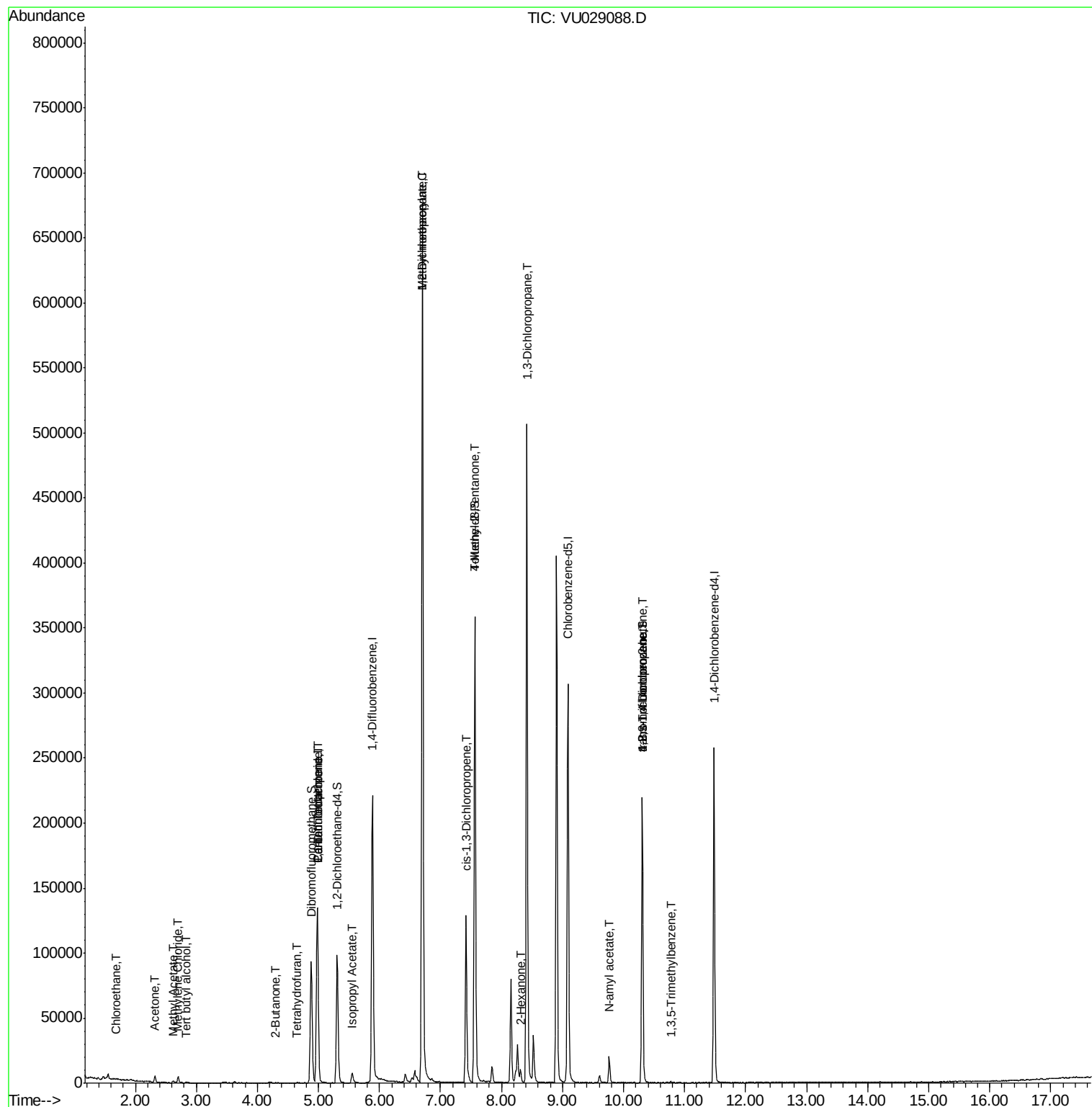
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	982	Below Cal		93
5) Bromomethane	1.63	94	133	Below Cal	#	2
6) Chloroethane	1.69	64	227	0.234	ug/l #	43
11) Tert butyl alcohol	2.83	59	149	0.425	ug/l #	73
16) Acetone	2.32	43	5733	6.605	ug/l	98
17) Carbon Disulfide	2.47	76	133	Below Cal	#	75
18) Methyl Acetate	2.62	43	2035	1.008	ug/l #	90
20) Methylene Chloride	2.70	84	2552	1.732	ug/l	86
25) 2-Butanone	4.30	43	254	0.217	ug/l #	47
29) Tetrahydrofuran	4.66	42	223	0.314	ug/l #	30
31) Cyclohexane	4.99	56	1851	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8058	4.239	ug/l #	45
38) Carbon Tetrachloride	4.98	117	9654	6.089	ug/l #	17
43) Isopropyl Acetate	5.55	43	9624	3.007	ug/l	94
45) 1,2-Dichloropropane	6.70	63	695	0.444	ug/l #	43
48) Methyl methacrylate	6.70	41	55494	35.605	ug/l #	37
51) 4-Methyl-2-Pentanone	7.56	43	4745	2.178	ug/l	99
54) cis-1,3-Dichloropropene	7.42	75	23783	9.941	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	5093	2.058	ug/l #	42
59) 2-Hexanone	8.31	43	7862	4.598	ug/l #	21
74) N-amyl acetate	9.76	43	6536	2.937	ug/l #	47
76) 1,2,3-Trichloropropane	10.30	75	35613	20.835	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	878	0.204	ug/l	91
81) trans-1,4-Dichloro-2-buten	10.30	75	35613	53.734	ug/l #	100

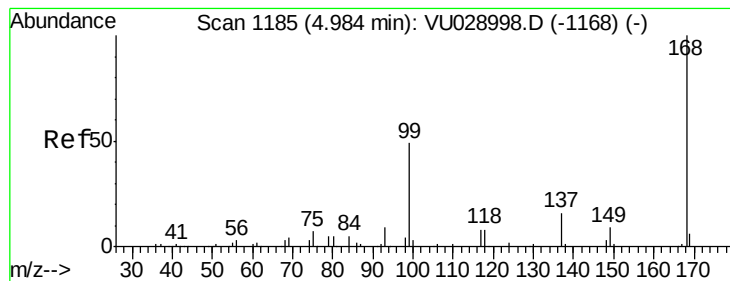
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU010919\
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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: VU029088.D

Acq: 09 Jan 2019 14:36

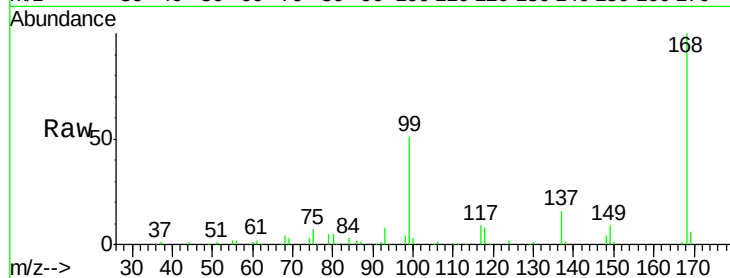
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 111451

Ion Ratio Lower Upper

168 100

99 50.7 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

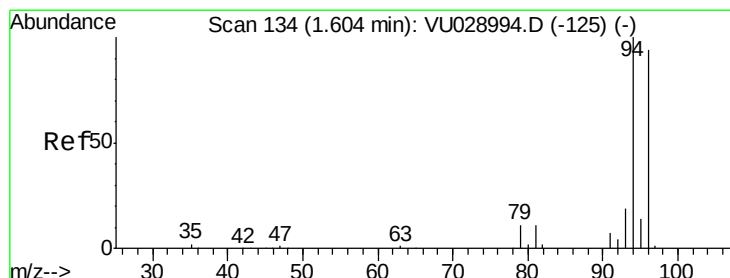
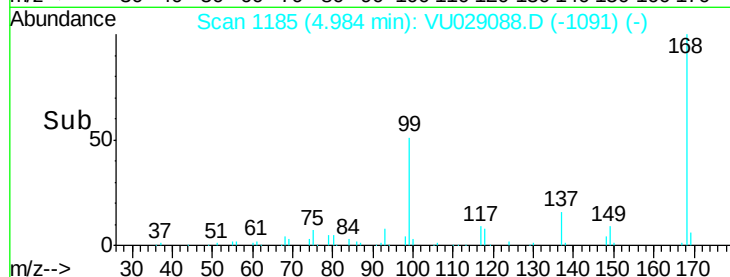
20000

10000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 141

Delta R.T. 0.02 min

Lab File: VU029088.D

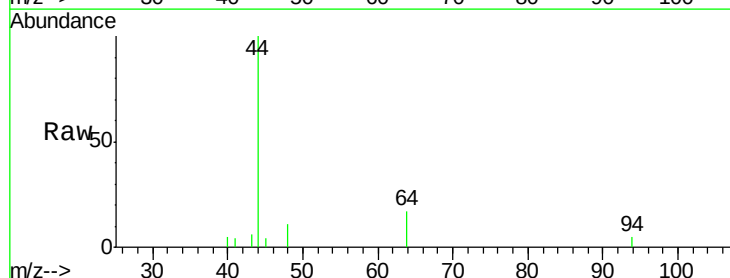
Acq: 09 Jan 2019 14:36

Tgt Ion: 94 Resp: 133

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU028994.D (-125) (-)

Ion 95.90 (95.60 to 96.60): VU028994.D (-125) (-)

1.63

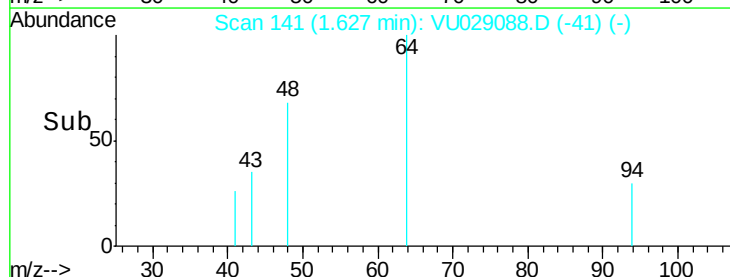
100

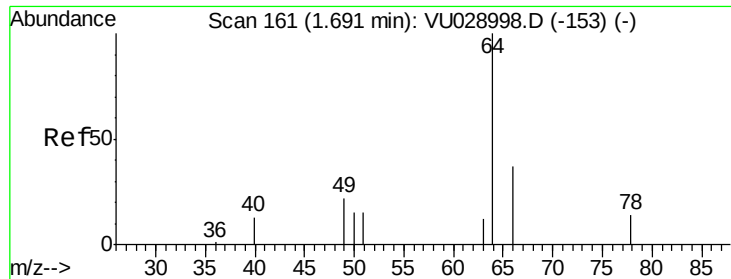
50

0

1.60 1.62 1.64

Time-->





#6

Chloroethane

Concen: 0.234 ug/l

RT: 1.69 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

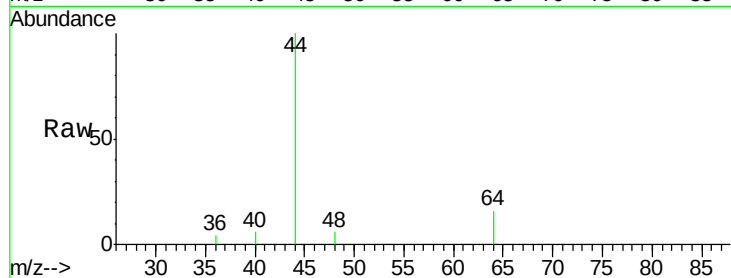
ClientSampleId :

Tot Ion: 64 Resp: 227

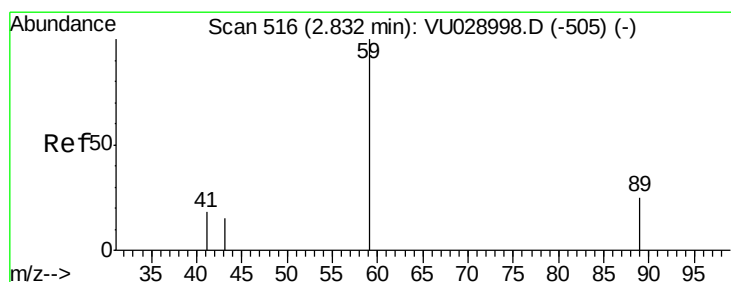
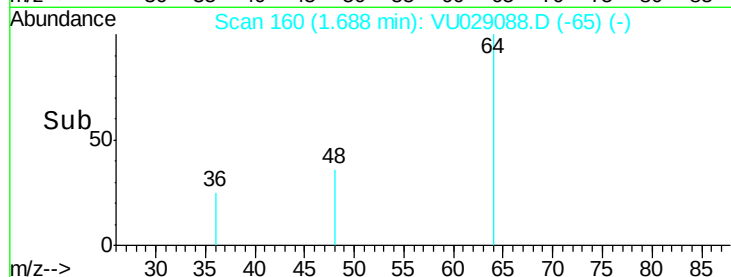
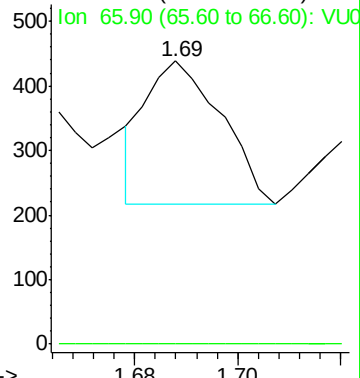
Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VU029088.D (-65) (-)



#11

Tert butyl alcohol

Concen: 0.425 ug/l

RT: 2.83 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU029088.D

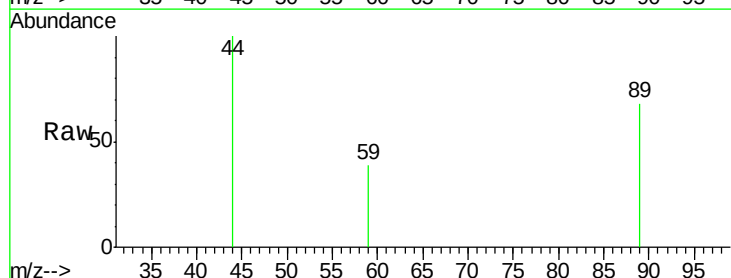
Acq: 09 Jan 2019 14:36

Tgt Ion: 59 Resp: 149

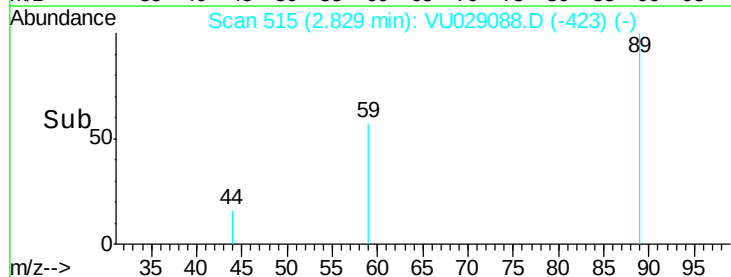
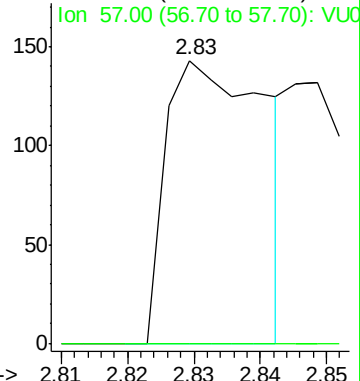
Ion Ratio Lower Upper

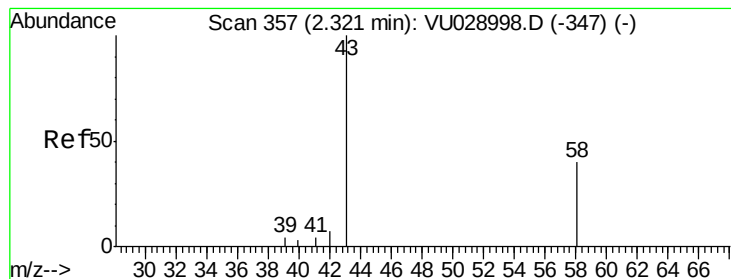
59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU029088.D (-423) (-)





#16

Acetone

Concen: 6.605 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

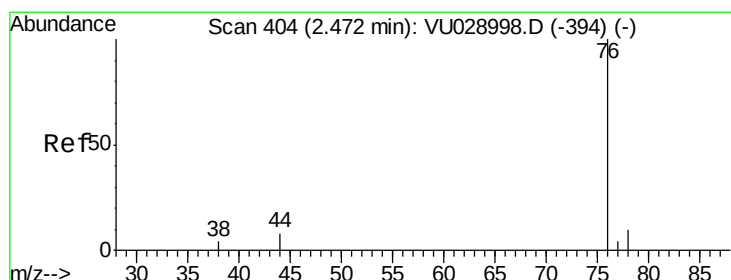
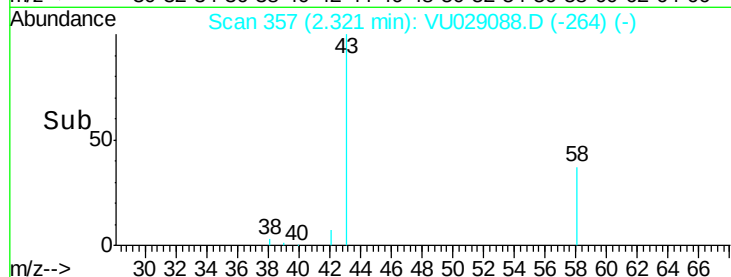
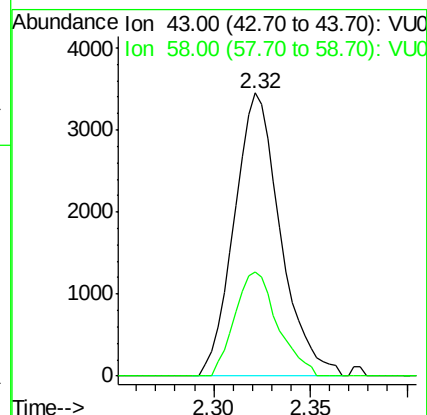
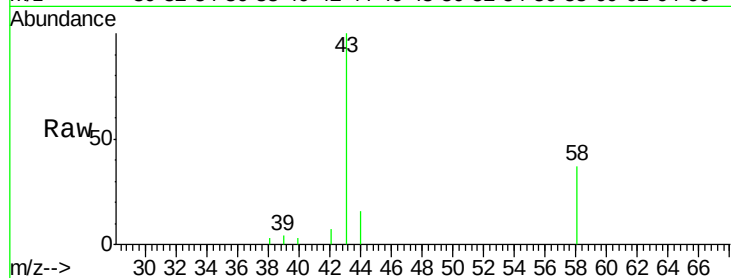
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5733

Ion Ratio Lower Upper

43 100

58 37.0 28.6 42.8



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.47 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU029088.D

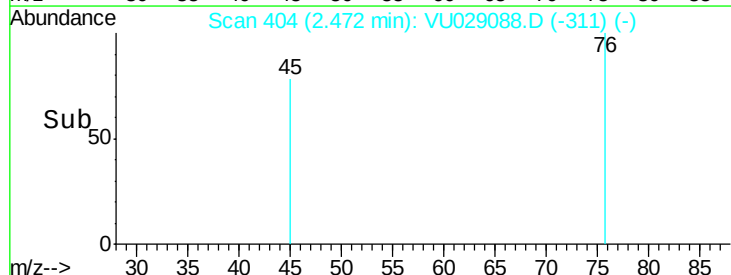
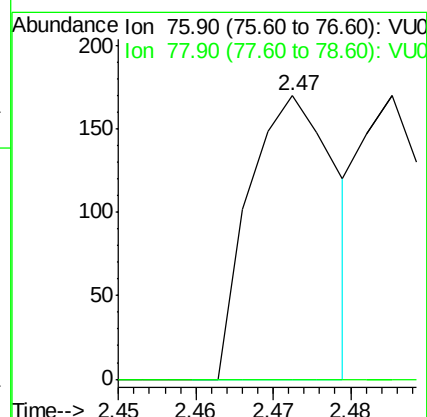
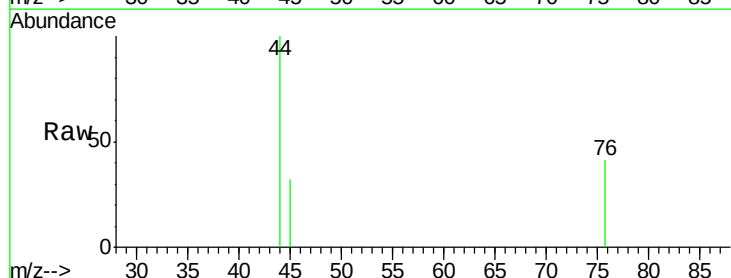
Acq: 09 Jan 2019 14:36

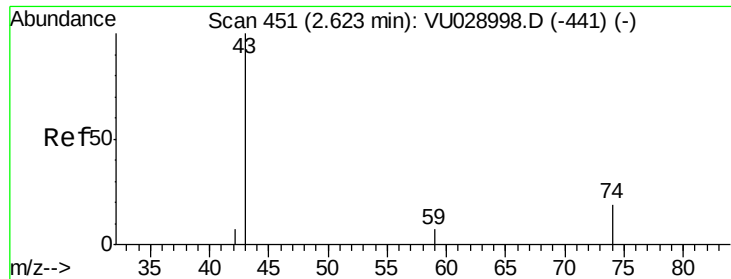
Tgt Ion: 76 Resp: 133

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#18

Methvl Acetate

Concen: 1.008 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

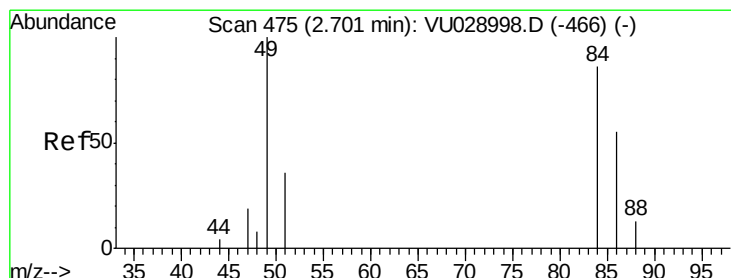
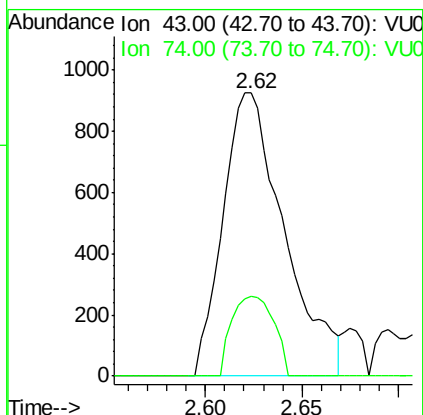
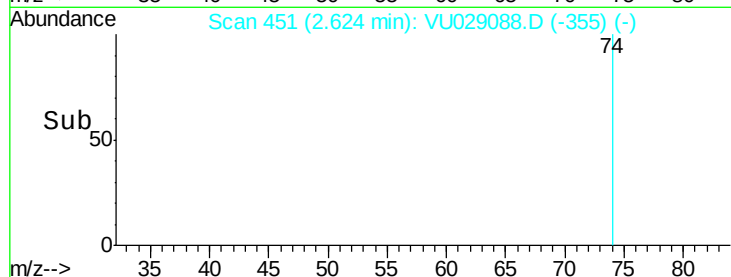
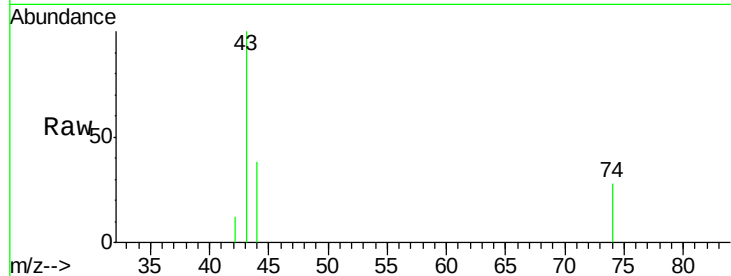
ClientSampleId :

Tot Ion: 43 Resp: 2035

Ion Ratio Lower Upper

43 100

74 19.3 19.5 29.3#



#20

Methylene Chloride

Concen: 1.732 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Tgt Ion: 84 Resp: 2552

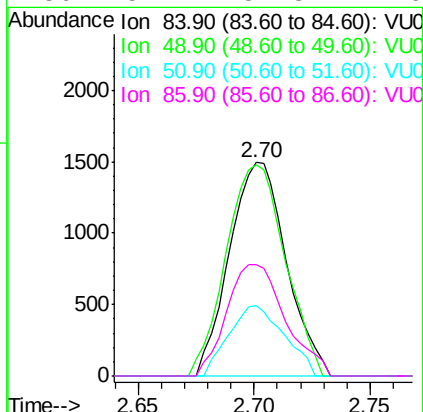
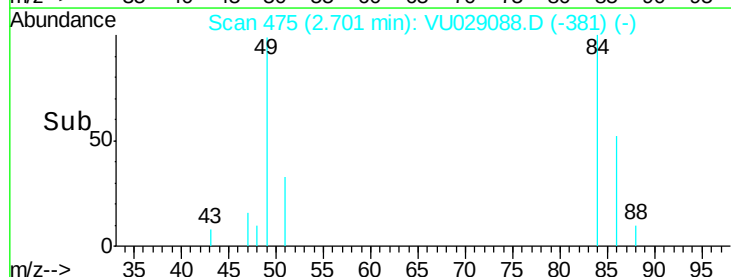
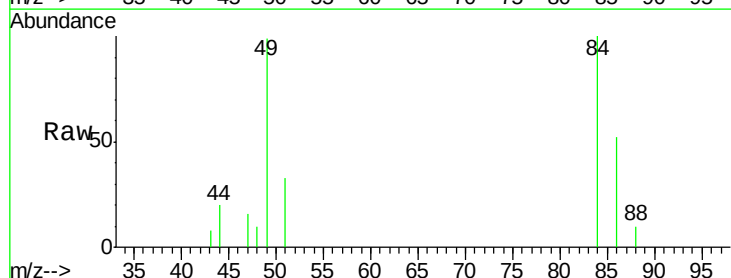
Ion Ratio Lower Upper

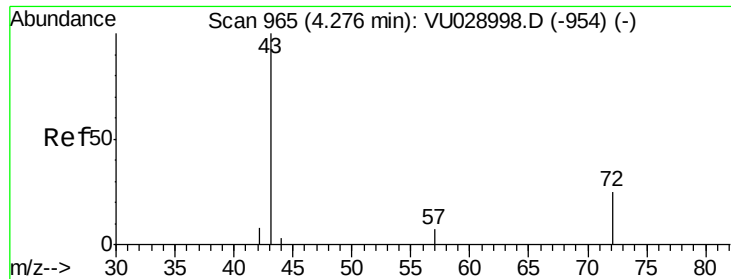
84 100

49 98.9 91.9 137.9

51 33.0 29.2 43.8

86 52.1 51.8 77.6





#25

2-Butanone

Concen: 0.217 ug/l

RT: 4.30 min Scan# 971

Delta R.T. 0.04 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

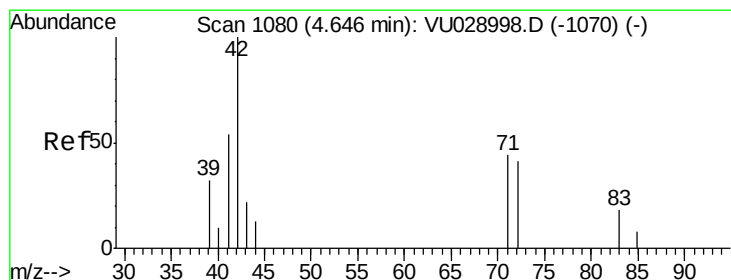
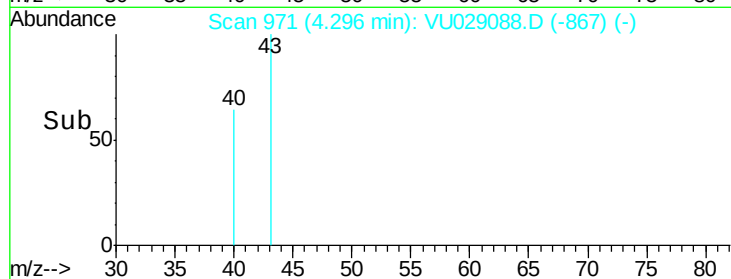
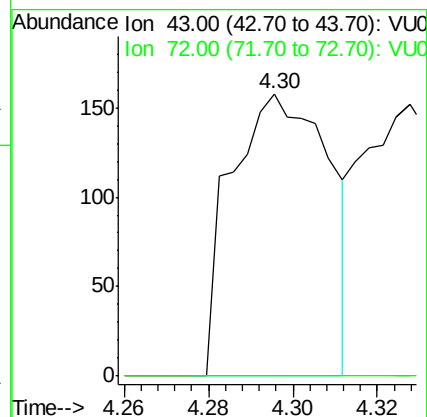
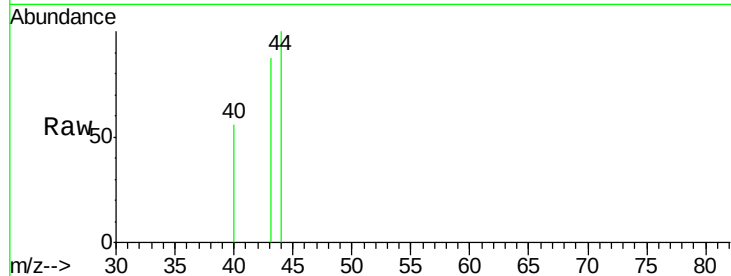
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 254

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



#29

Tetrahydrofuran

Concen: 0.314 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

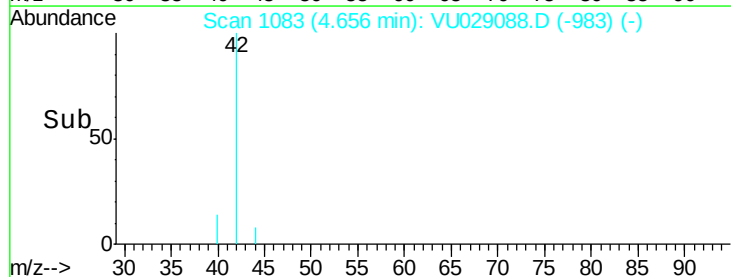
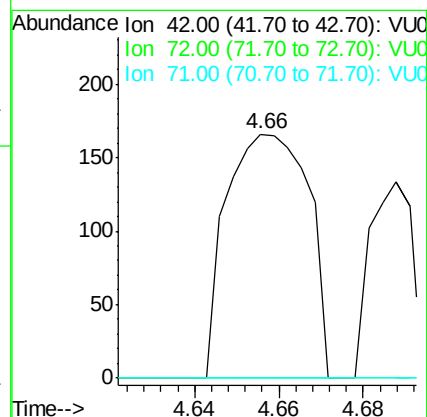
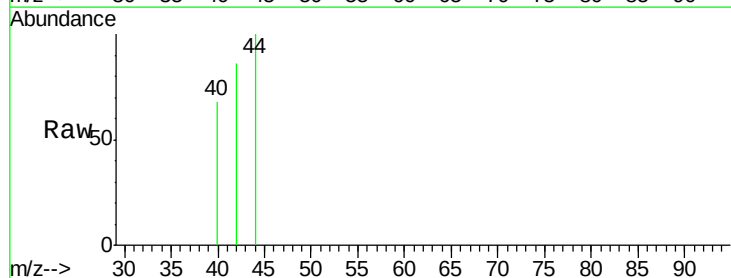
Tgt Ion: 42 Resp: 223

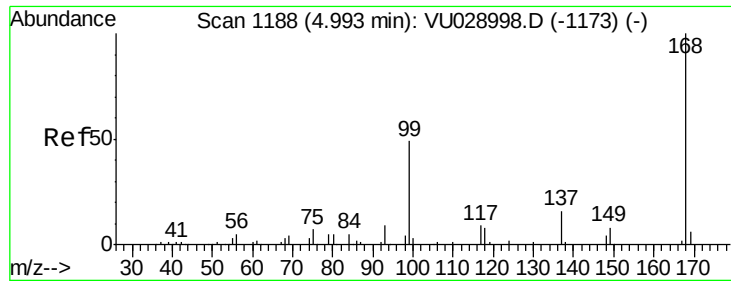
Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 0.0 36.1 54.1#

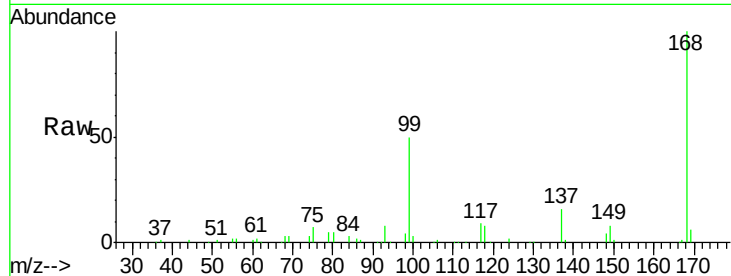




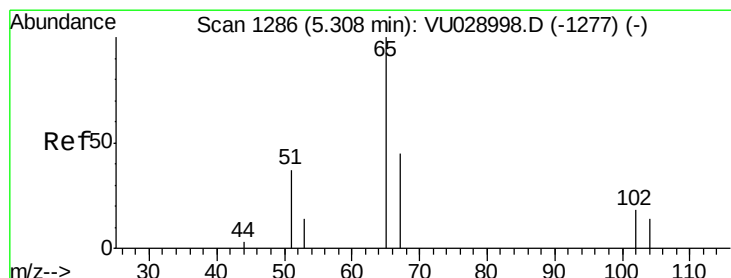
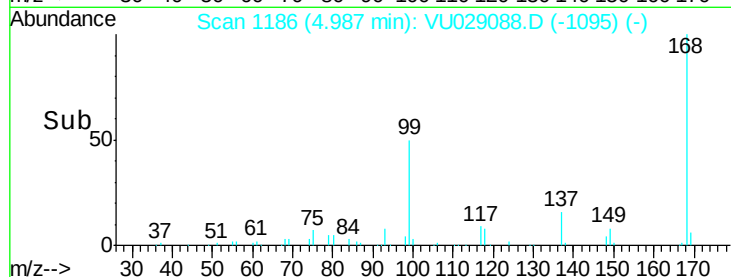
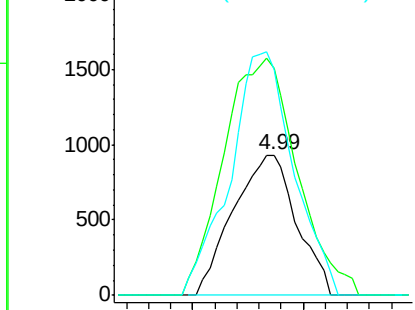
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU029088.D
Acq: 09 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 1851
Ion Ratio Lower Upper
56 100
69 149.7 26.7 40.1#
84 161.3 65.7 98.5#

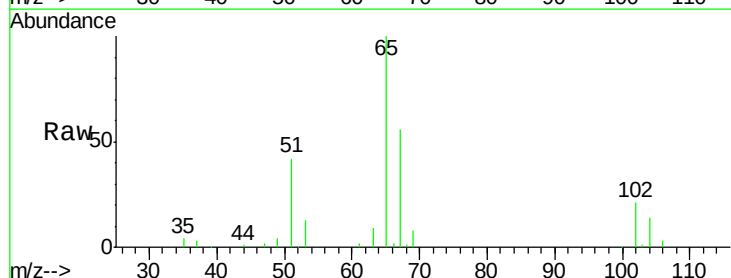


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

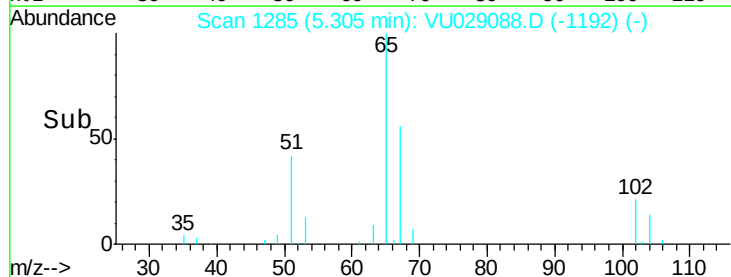
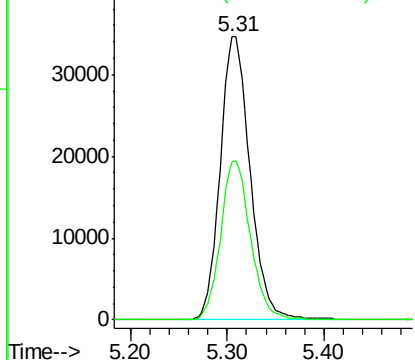


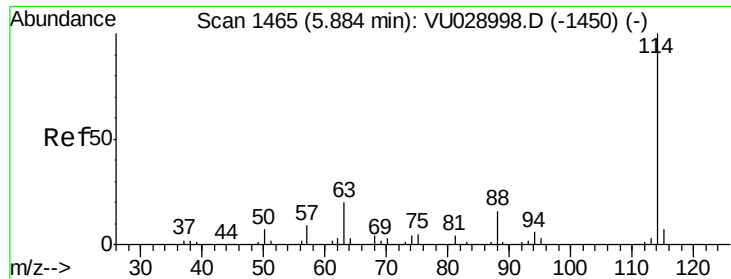
#33
1,2-Dichloroethane-d4
Concen: 53.922 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VU029088.D
Acq: 09 Jan 2019 14:36

Tgt Ion: 65 Resp: 74291
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

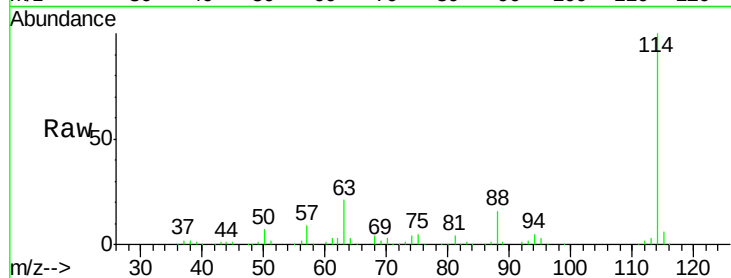




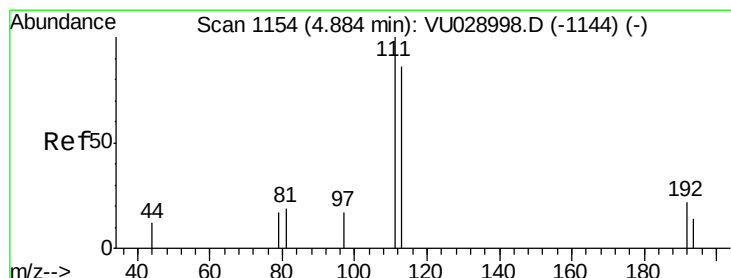
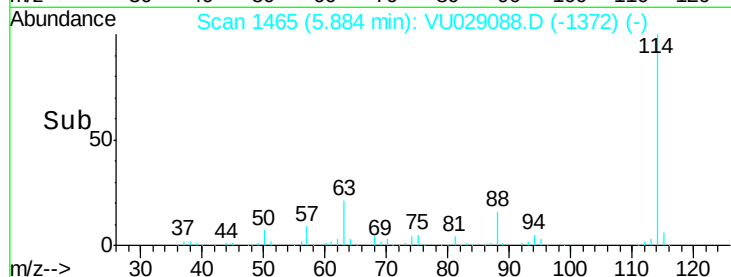
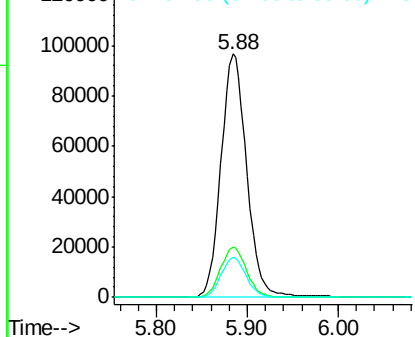
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029088.D
 Acq: 09 Jan 2019 14:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:114 Resp: 190187
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.2
 88 16.3 0.0 30.4

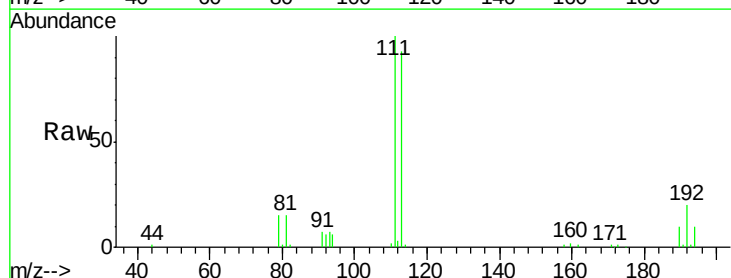


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

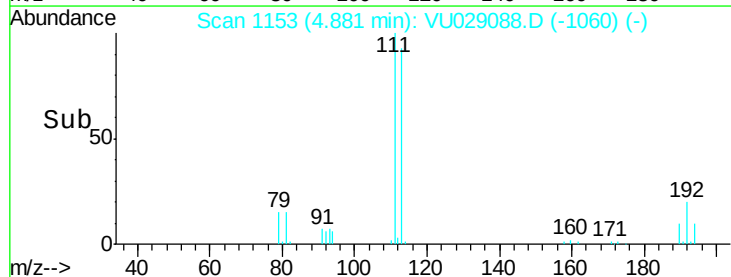
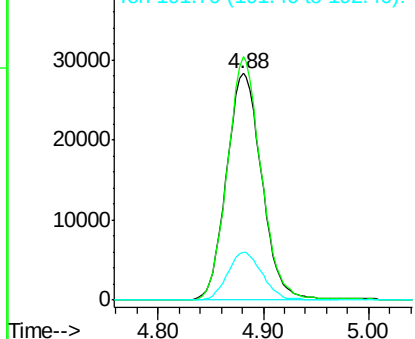


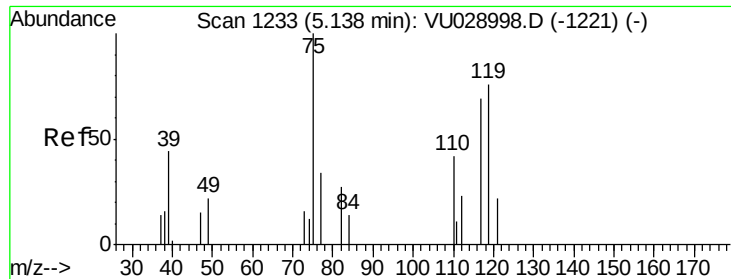
#35
 Dibromofluoromethane
 Concen: 53.276 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029088.D
 Acq: 09 Jan 2019 14:36

Tgt Ion:113 Resp: 65681
 Ion Ratio Lower Upper
 113 100
 111 102.7 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

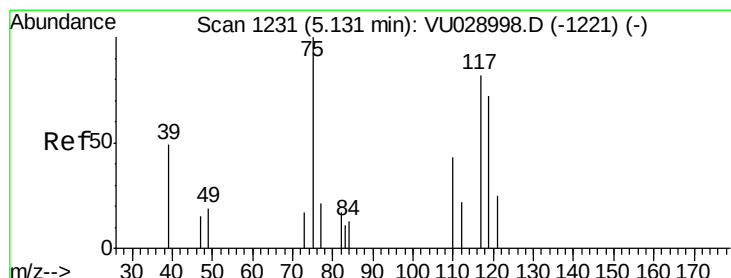
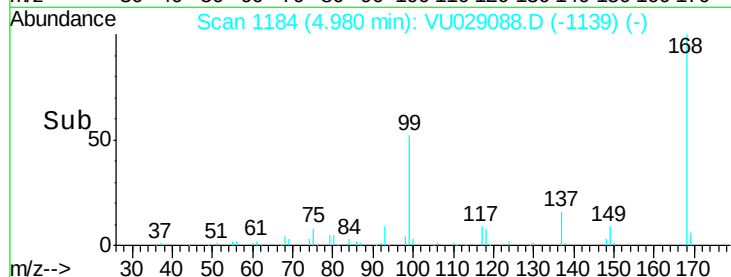
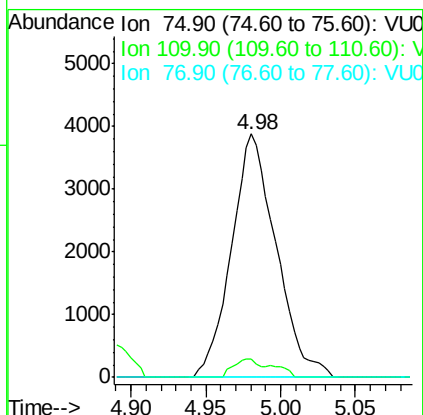
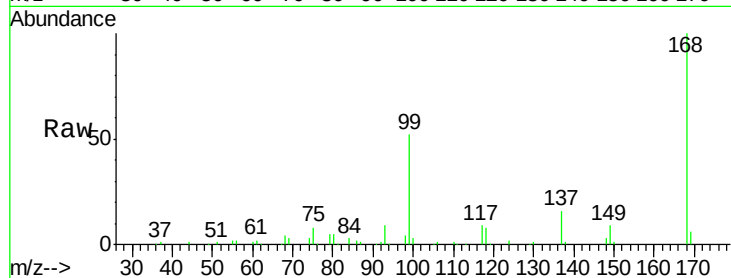




#36
 1,1-Dichloropropene
 Concen: 4.239 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029088.D
 Acq: 09 Jan 2019 14:36

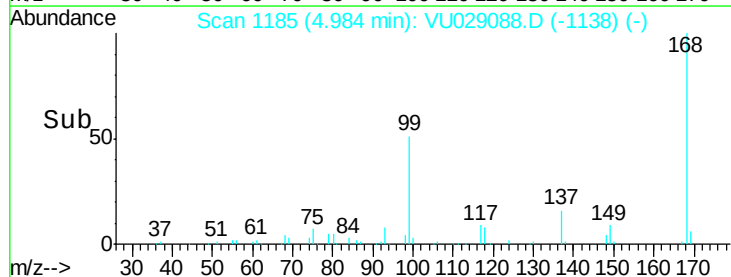
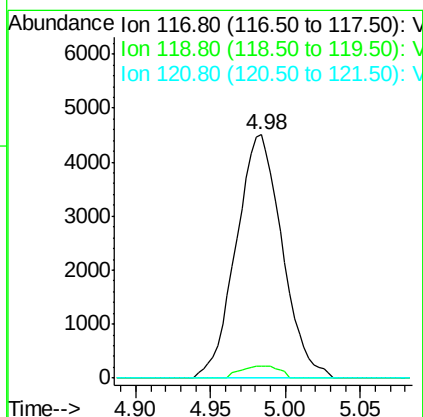
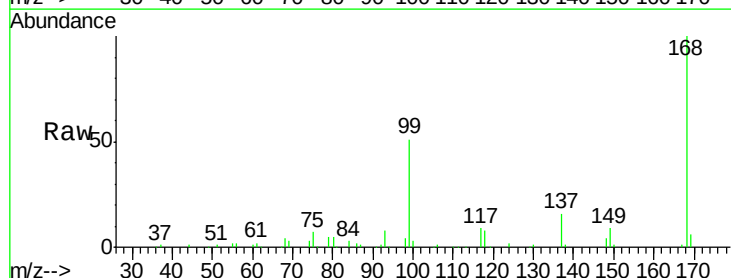
Instrument :
 MSVOA_U
 ClientSampled :

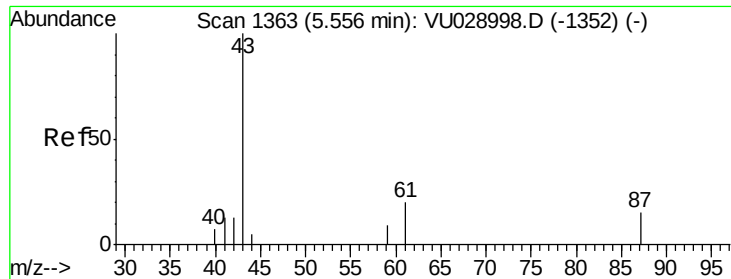
Tot Ion: 75 Resp: 8058
 Ion Ratio Lower Upper
 75 100
 110 4.6 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.089 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029088.D
 Acq: 09 Jan 2019 14:36

Tgt Ion: 117 Resp: 9654
 Ion Ratio Lower Upper
 117 100
 119 4.9 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 3.007 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampled :

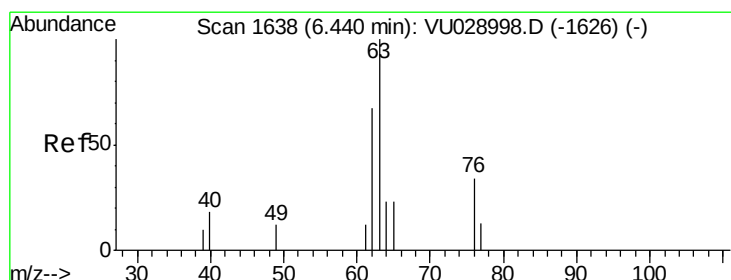
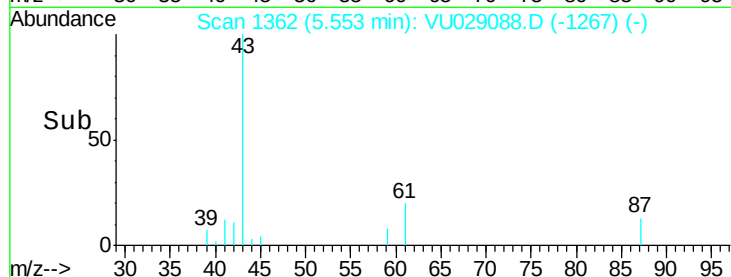
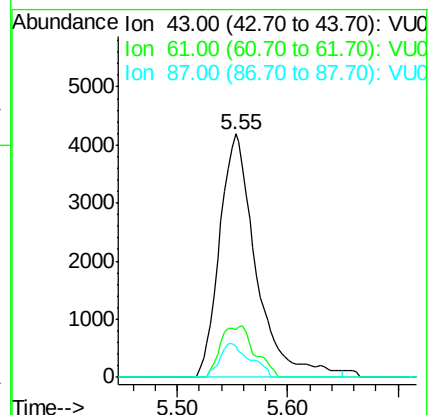
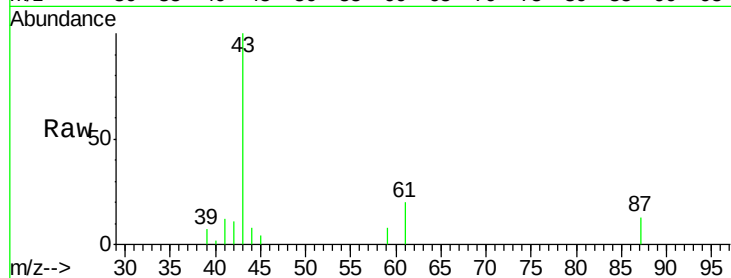
Tot Ion: 43 Resp: 9624

Ion Ratio Lower Upper

43 100

61 19.6 17.8 26.6

87 11.5 11.3 16.9



#45

1,2-Dichloropropane

Concen: 0.444 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.27 min

Lab File: VU029088.D

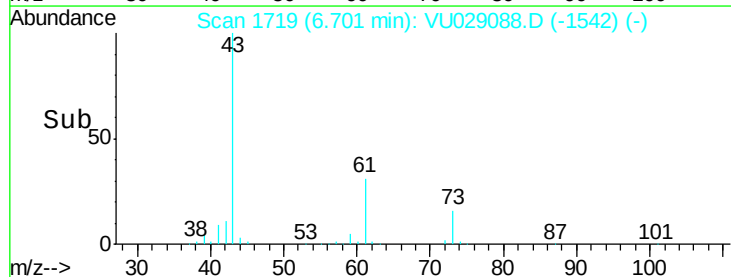
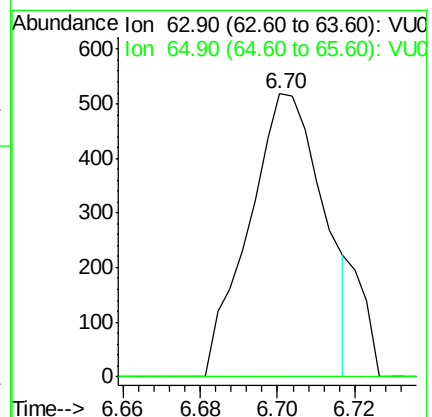
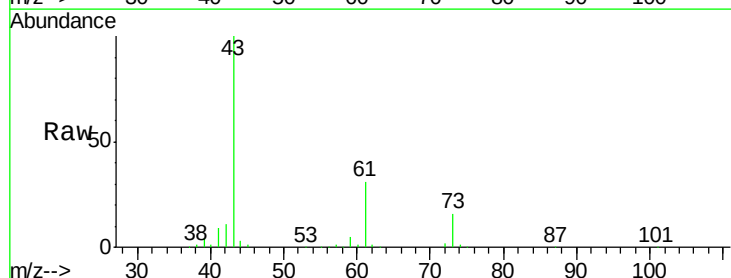
Acq: 09 Jan 2019 14:36

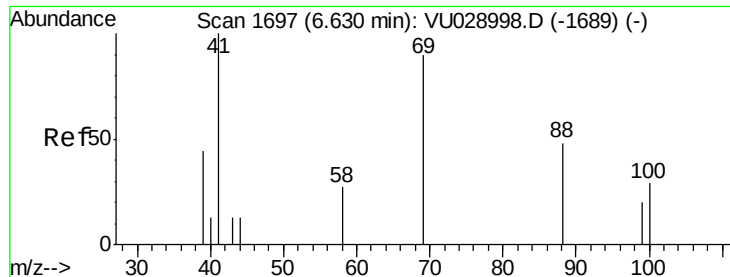
Tgt Ion: 63 Resp: 695

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#





#48

Methvl methacrylate

Concen: 35.605 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

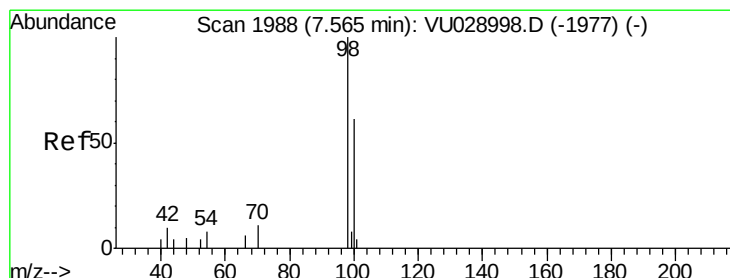
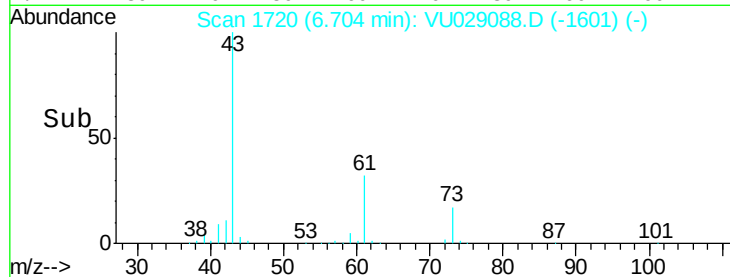
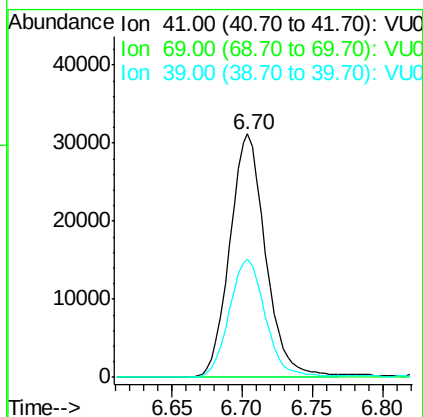
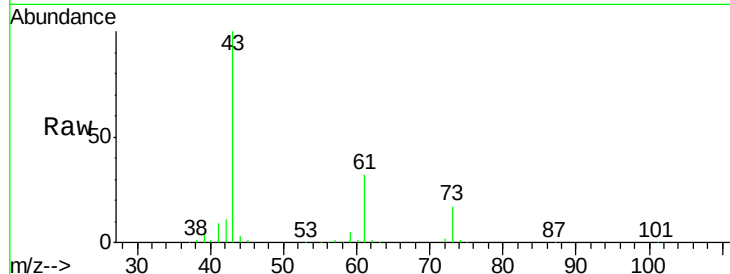
Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 55494

Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.6	110.4#
39	48.9	39.6	59.4



#50

Toluene-d8

Concen: 50.285 ug/l

RT: 7.56 min Scan# 1987

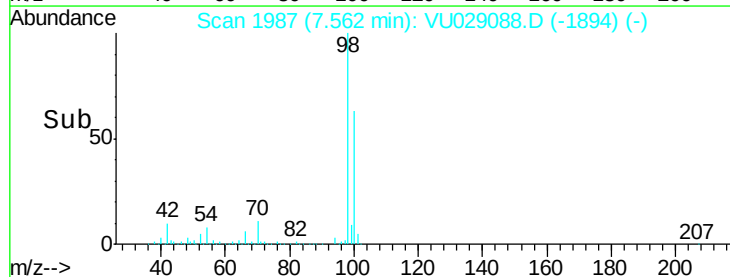
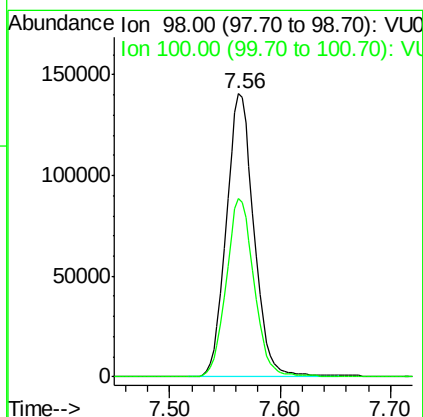
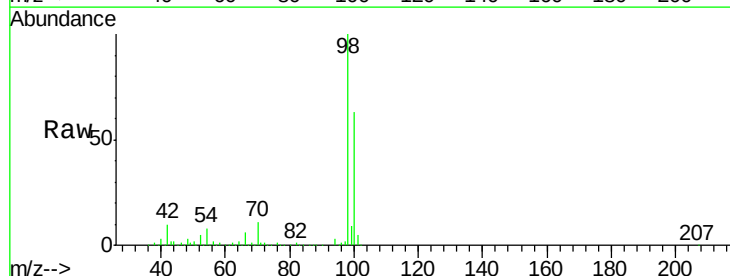
Delta R.T. 0.00 min

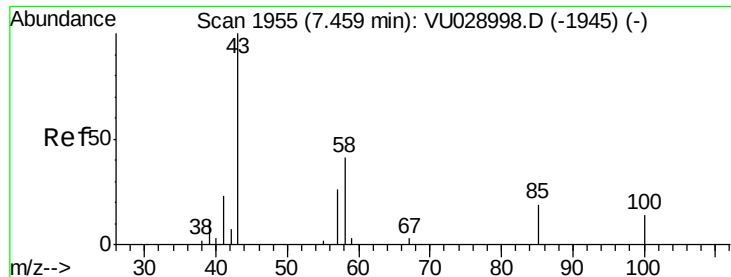
Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Tgt Ion: 98 Resp: 244744

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 2.178 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

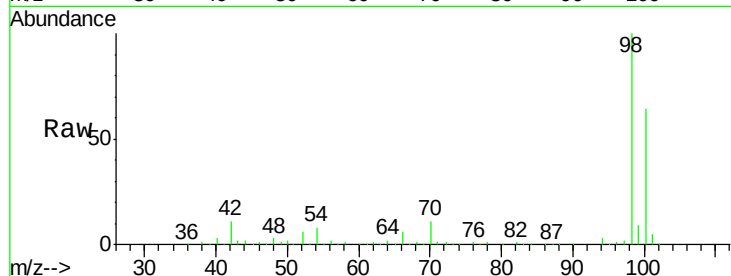
ClientSampleId :

Tot Ion: 43 Resp: 4745

Ion Ratio Lower Upper

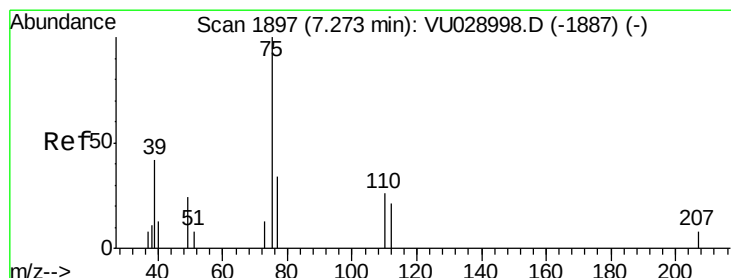
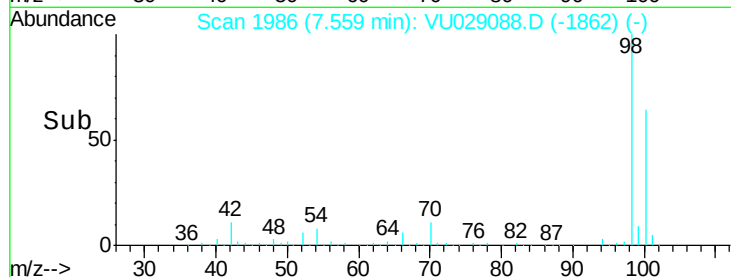
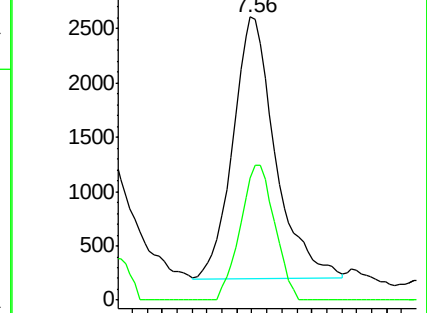
43 100

58 42.0 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: 9.941 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

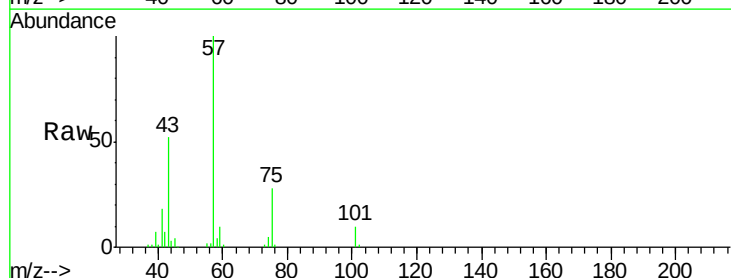
Tgt Ion: 75 Resp: 23783

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

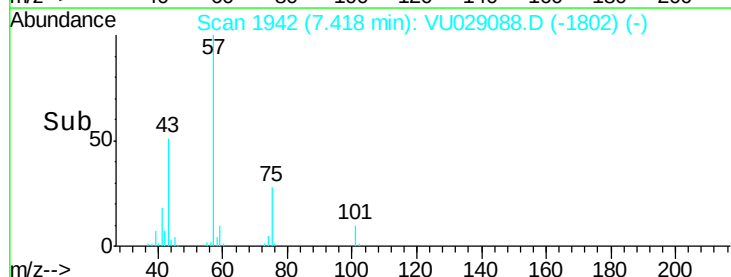
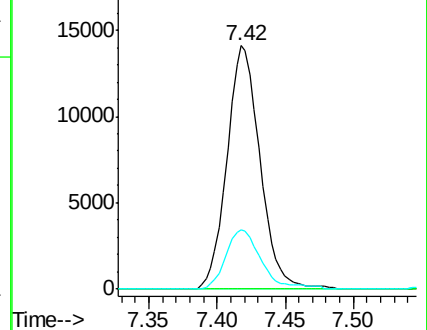
39 24.6 32.2 48.4#

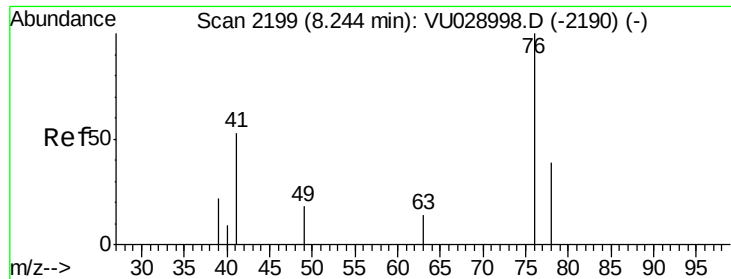


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

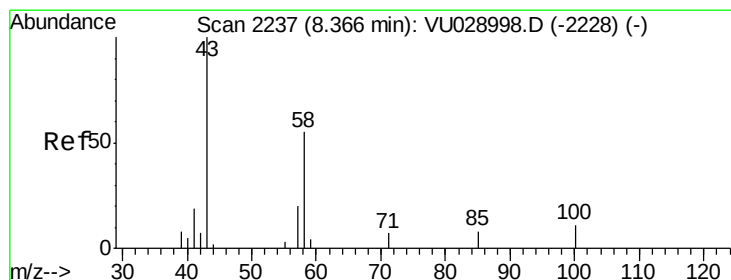
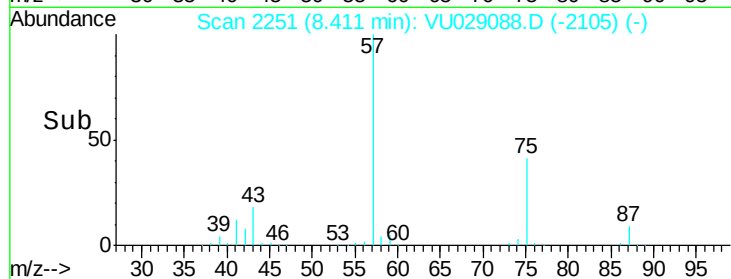
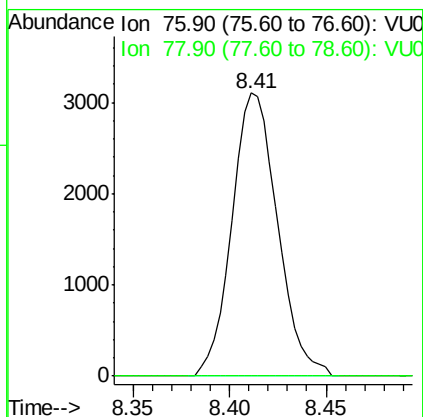
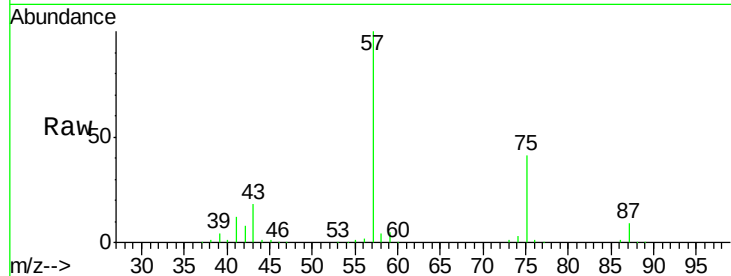




#57
 1,3-Dichloropropane
 Concen: 2.058 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029088.D
 Acq: 09 Jan 2019 14:36

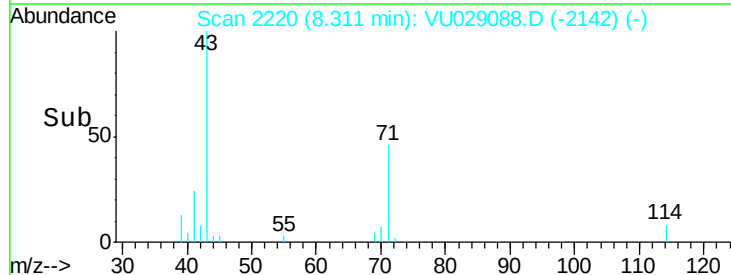
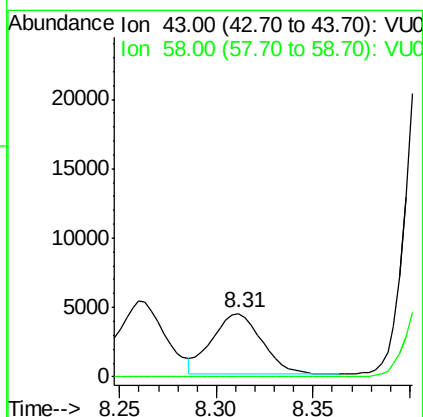
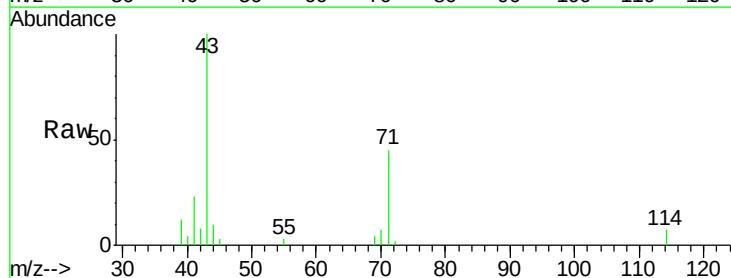
Instrument :
 MSVOA_U
 ClientSampled :

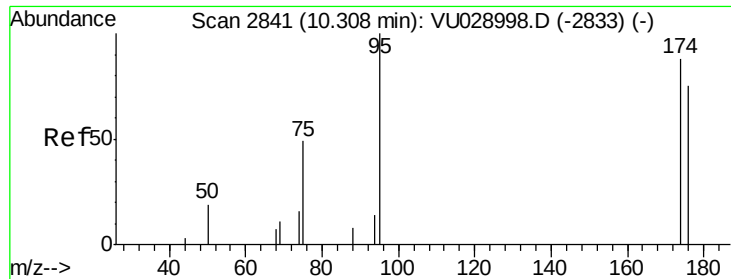
Tot Ion: 76 Resp: 5093
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 4.598 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU029088.D
 Acq: 09 Jan 2019 14:36

Tgt Ion: 43 Resp: 7862
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#

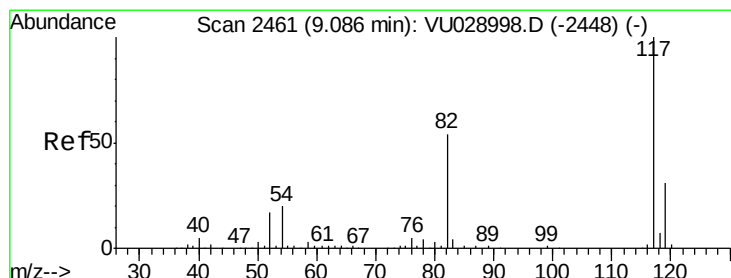
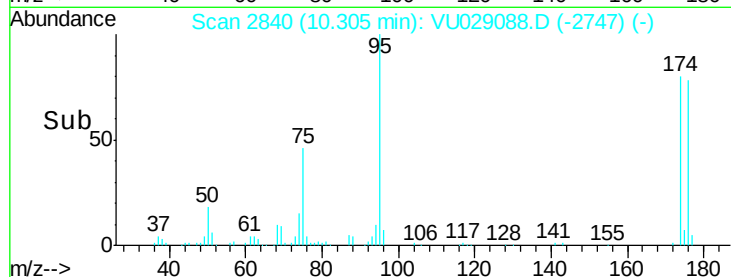
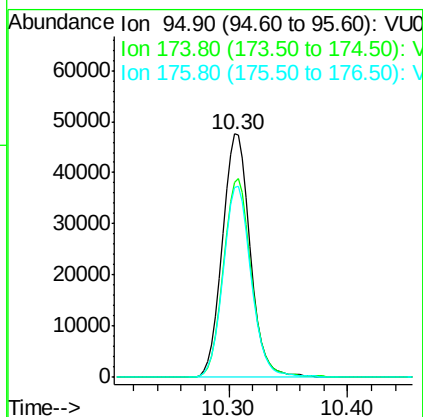
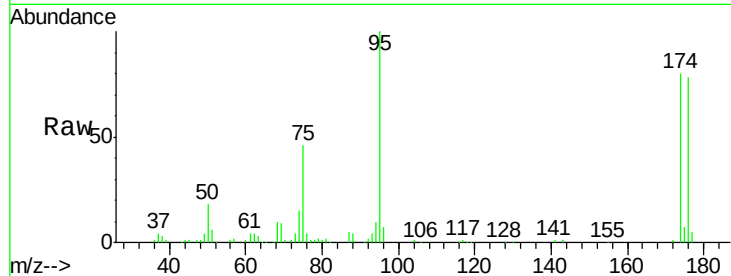




#62
4-Bromofluorobenzene
Concen: 44.125 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029088.D
Acq: 09 Jan 2019 14:36

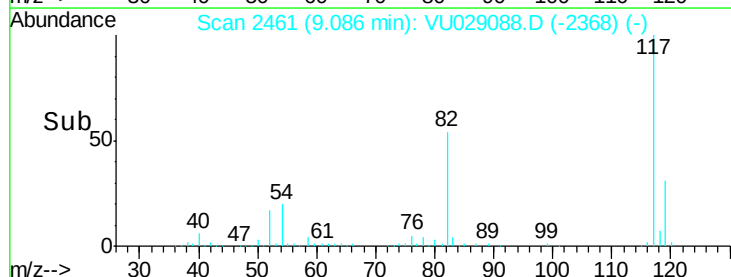
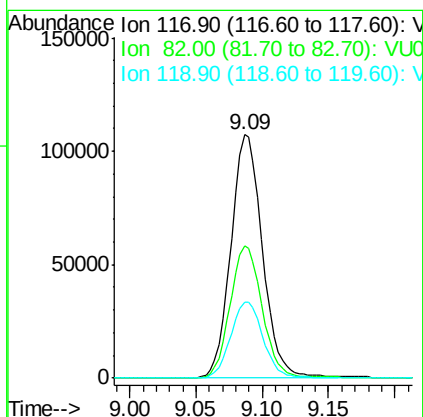
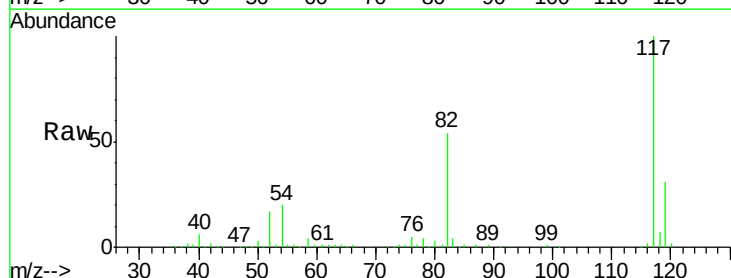
Instrument :
MSVOA_U
ClientSampleId :

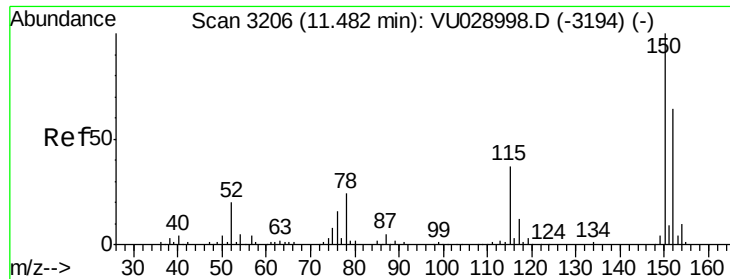
Tot Ion: 95 Resp: 77181
Ion Ratio Lower Upper
95 100
174 82.4 0.0 170.6
176 79.2 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029088.D
Acq: 09 Jan 2019 14:36

Tgt Ion: 117 Resp: 177975
Ion Ratio Lower Upper
117 100
82 54.2 43.9 65.9
119 31.3 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

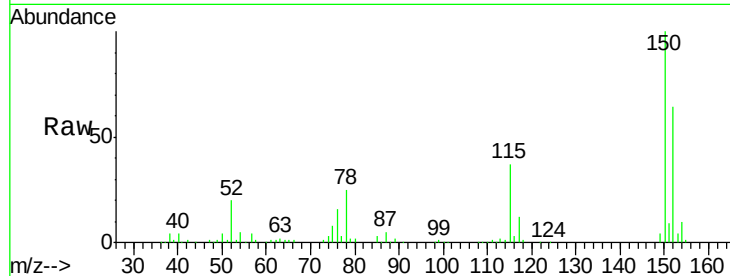
Tot Ion:152 Resp: 69763

Ion Ratio Lower Upper

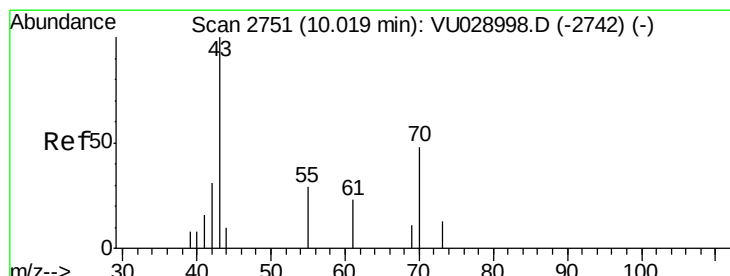
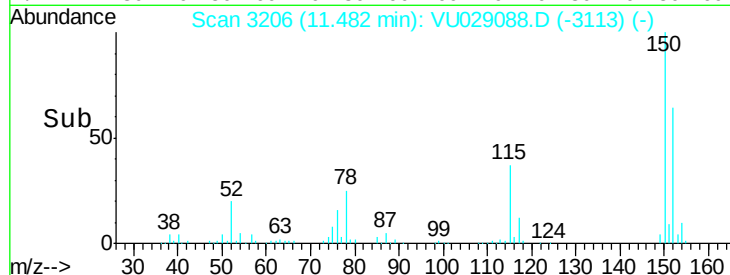
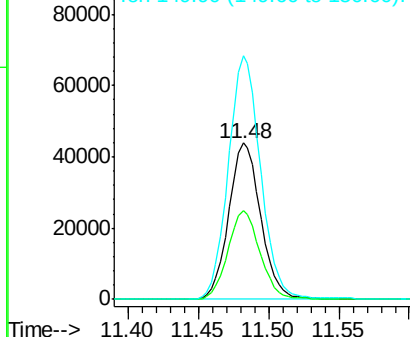
152 100

115 56.8 40.1 120.3

150 157.1 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: 2.937 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Tgt Ion: 43 Resp: 6536

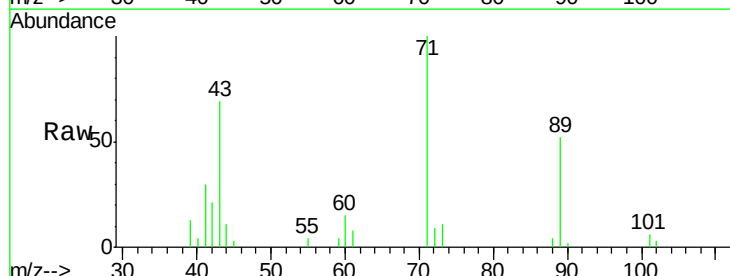
Ion Ratio Lower Upper

43 100

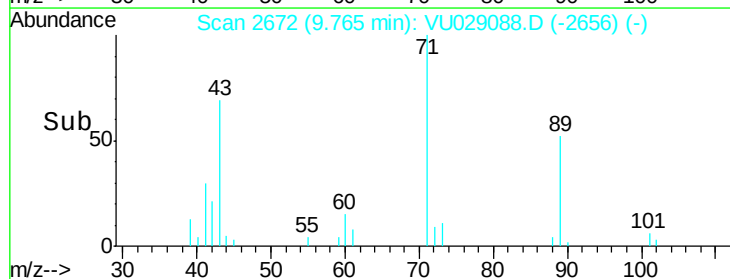
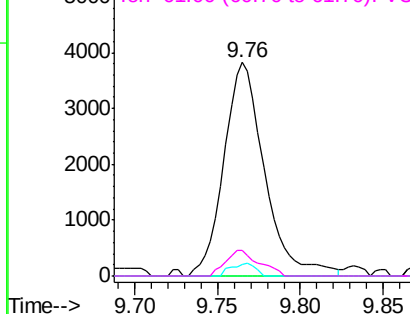
70 0.0 36.3 54.5#

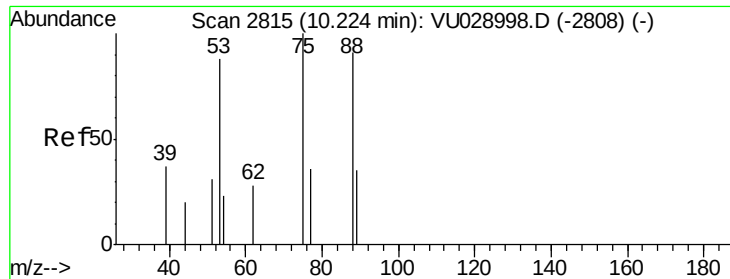
55 3.5 20.5 30.7#

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: 20.835 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

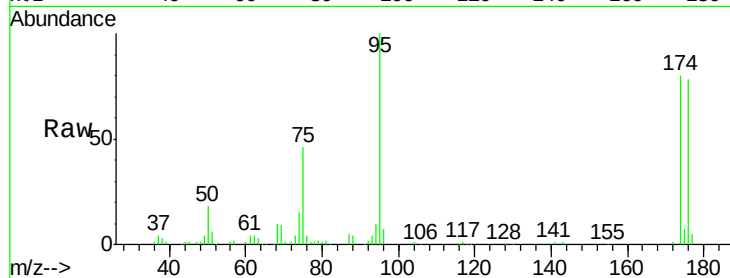
ClientSampleId :

Tot Ion: 75 Resp: 35613

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

10.30

25000

20000

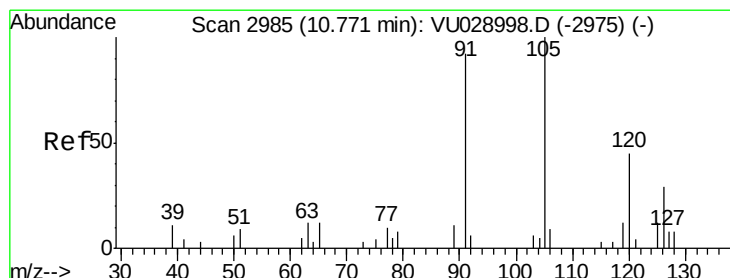
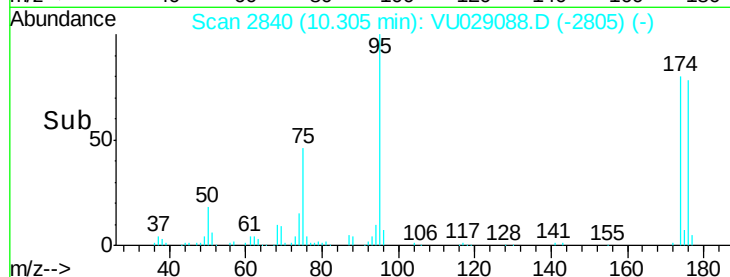
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.204 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029088.D

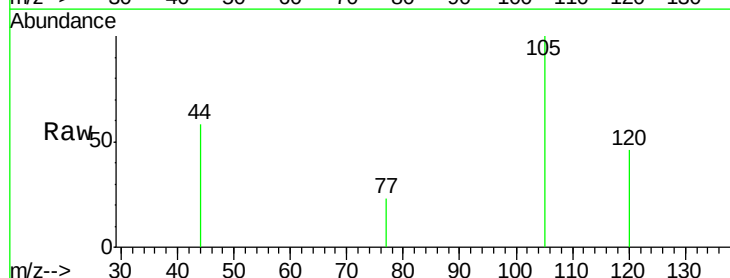
Acq: 09 Jan 2019 14:36

Tgt Ion: 105 Resp: 878

Ion Ratio Lower Upper

105 100

120 43.3 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.77

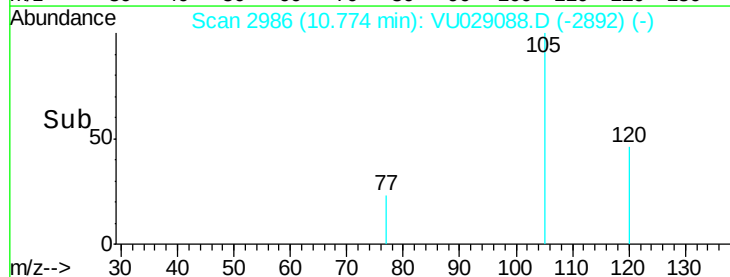
600

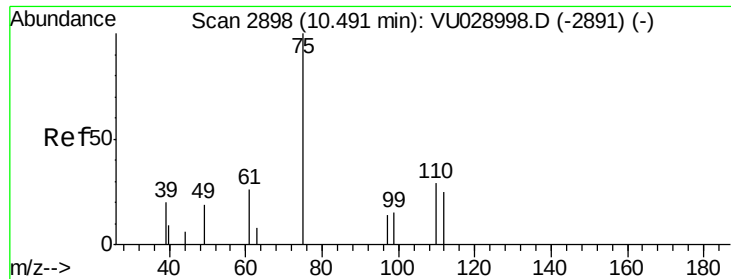
400

200

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 53.734 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029088.D

Acq: 09 Jan 2019 14:36

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 35613

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

