

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029179.D
 Acq On : 15 Jan 2019 12:41
 Operator : JC/SP
 Sample : PB116371ZHE#01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#01

Quant Time: Jan 16 04:33:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	115584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	205232	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	190710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	76691	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	78296	54.80	ug/l	0.00
Spiked Amount			Recovery	=	109.60%	
35) Dibromofluoromethane	4.88	113	68548	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
50) Toluene-d8	7.56	98	266060	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	10.30	95	83929	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	

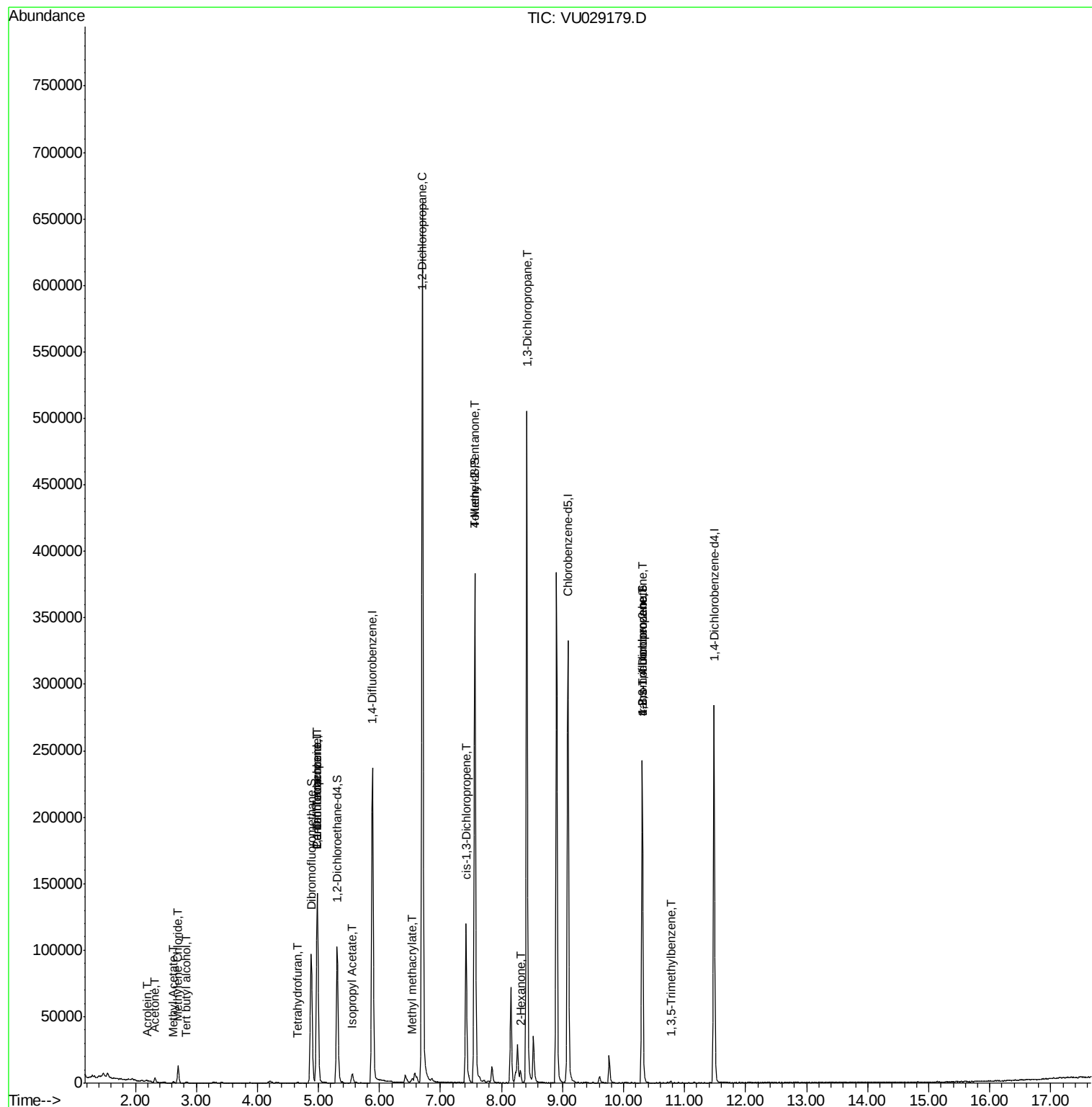
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	898	Below Cal		91
5) Bromomethane	1.63	94	50	Below Cal	#	2
11) Tert butyl alcohol	2.83	59	491	1.352	ug/l #	73
13) Acrolein	2.19	56	59	0.216	ug/l #	42
16) Acetone	2.32	43	4455	4.949	ug/l	100
17) Carbon Disulfide	2.48	76	417	Below Cal	#	75
18) Methyl Acetate	2.63	43	1163	0.556	ug/l #	81
20) Methylene Chloride	2.70	84	5947	3.891	ug/l	98
29) Tetrahydrofuran	4.66	42	169	0.229	ug/l #	48
31) Cyclohexane	4.98	56	2021	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8463	4.125	ug/l #	44
38) Carbon Tetrachloride	4.98	117	10297	6.018	ug/l #	16
43) Isopropyl Acetate	5.55	43	8867	2.567	ug/l	94
45) 1,2-Dichloropropane	6.70	63	820	0.485	ug/l #	43
48) Methyl methacrylate	6.54	41	4483	2.665	ug/l #	12
51) 4-Methyl-2-Pentanone	7.56	43	5169	2.199	ug/l	96
54) cis-1,3-Dichloropropene	7.42	75	23239	9.002	ug/l #	59
57) 1,3-Dichloropropane	8.41	76	5101	1.910	ug/l #	42
59) 2-Hexanone	8.31	43	7211	3.908	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	40043	21.310	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	1119	0.236	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.30	75	40043	54.960	ug/l #	100

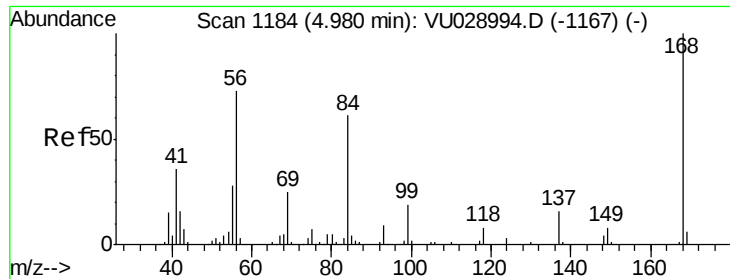
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 12 01:33:59 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: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

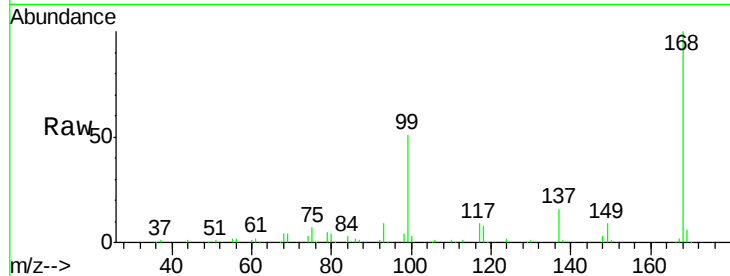
PB116371ZHE#01

Tot Ion:168 Resp: 115584

Ion Ratio Lower Upper

168 100

99 51.3 42.0 63.0



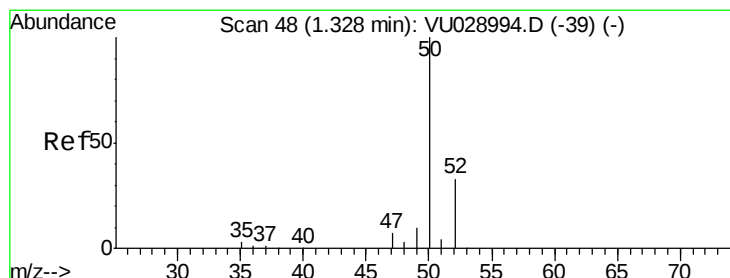
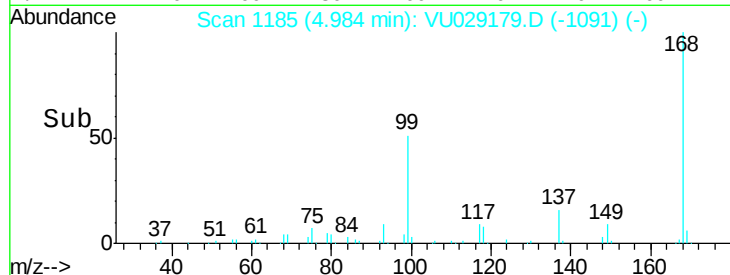
Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029179.D

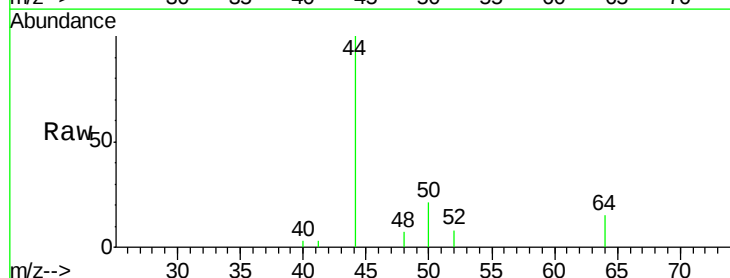
Acq: 15 Jan 2019 12:41

Tgt Ion: 50 Resp: 898

Ion Ratio Lower Upper

50 100

52 37.4 26.1 39.1



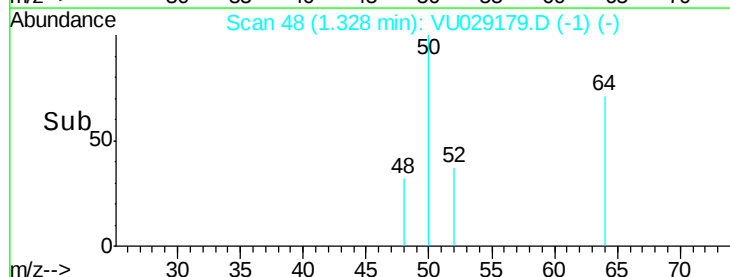
Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

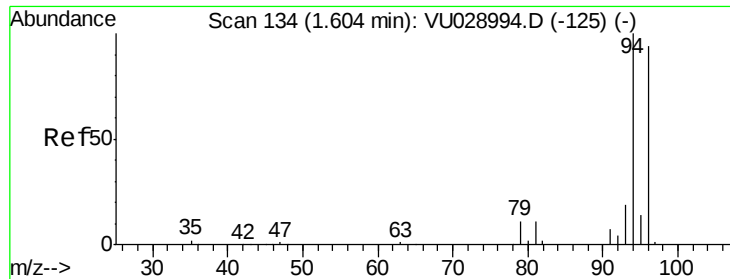
Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)

1.33

1.30 1.32 1.34 1.36 1.38

Time-->

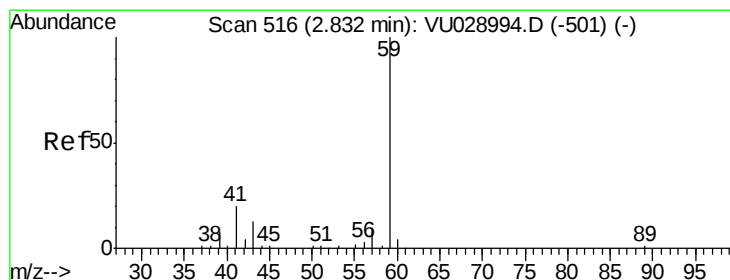
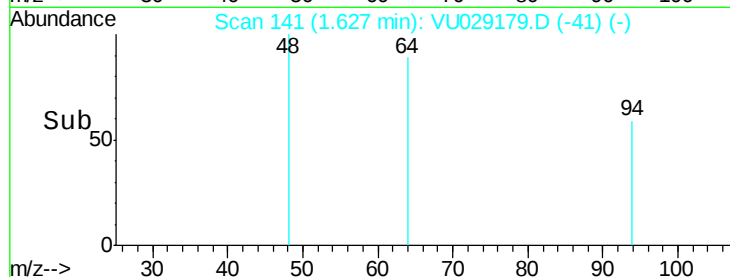
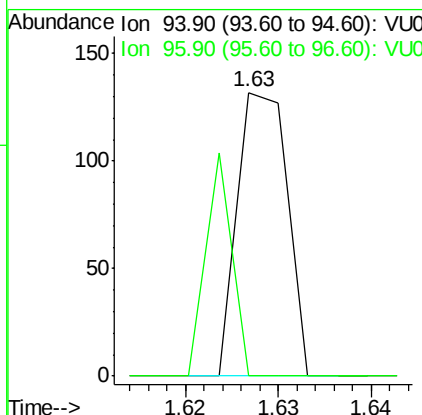
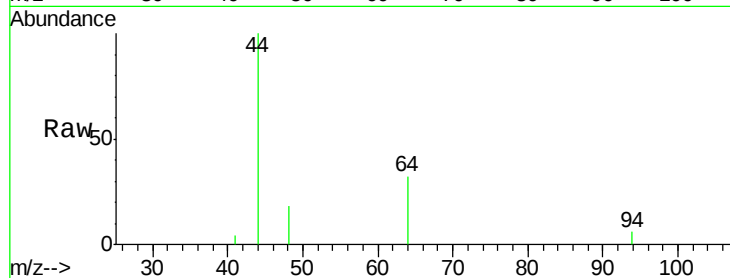




#5
 Bromomethane
 Concen: Below Cal
 RT: 1.63 min Scan# 141
 Delta R.T. 0.02 min
 Lab File: VU029179.D
 Acq: 15 Jan 2019 12:41

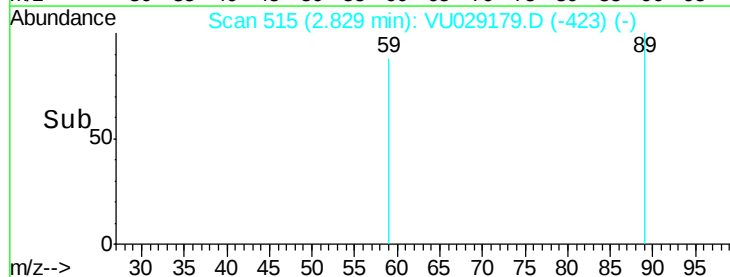
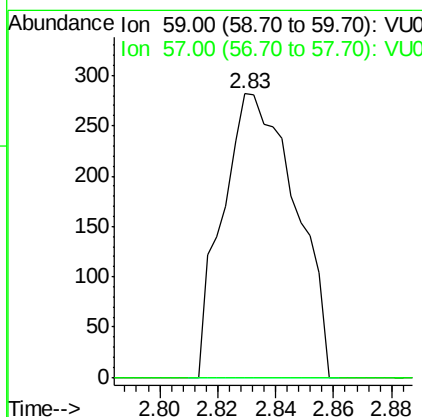
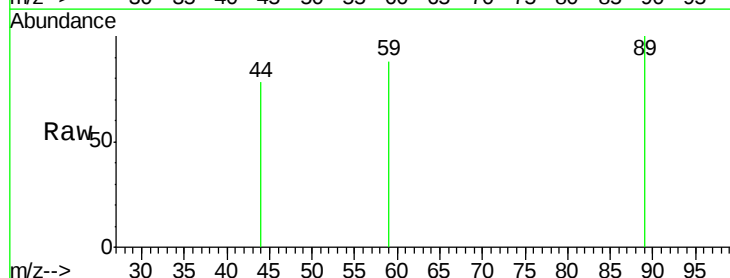
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#01

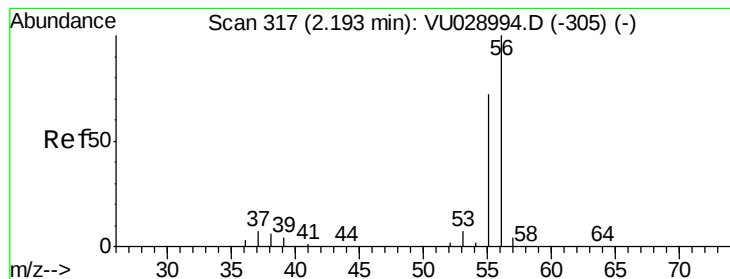
Tot Ion: 94 Resp: 50
 Ion Ratio Lower Upper
 94 100
 96 0.0 75.5 113.3#



#11
 Tert butyl alcohol
 Concen: 1.352 ug/l
 RT: 2.83 min Scan# 515
 Delta R.T. -0.00 min
 Lab File: VU029179.D
 Acq: 15 Jan 2019 12:41

Tgt Ion: 59 Resp: 491
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.216 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

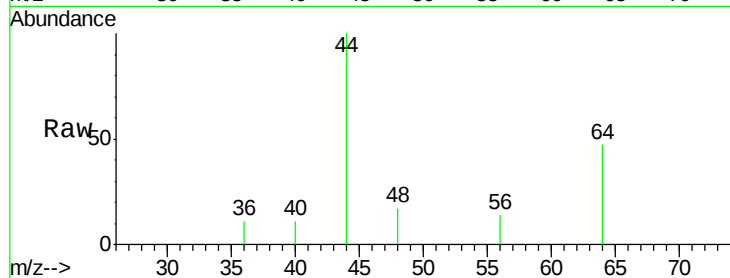
PB116371ZHE#01

Tot Ion: 56 Resp: 59

Ion Ratio Lower Upper

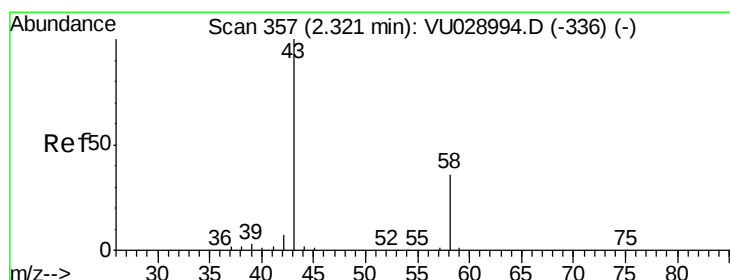
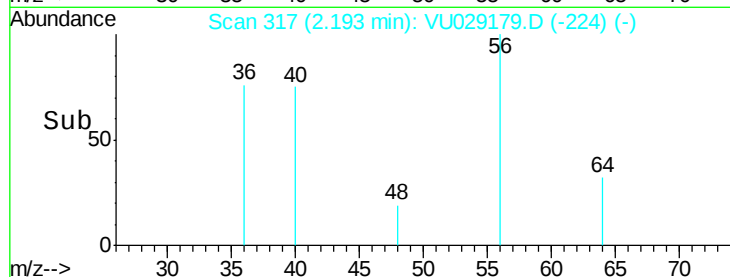
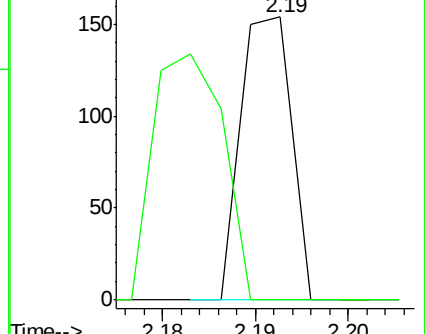
56 100

55 118.6 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 4.949 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029179.D

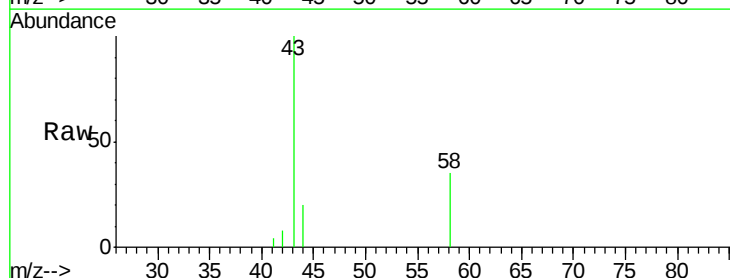
Acq: 15 Jan 2019 12:41

Tgt Ion: 43 Resp: 4455

Ion Ratio Lower Upper

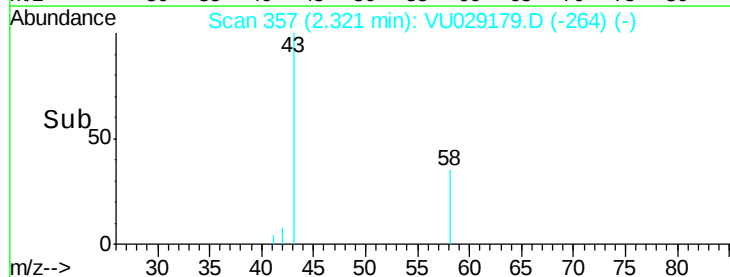
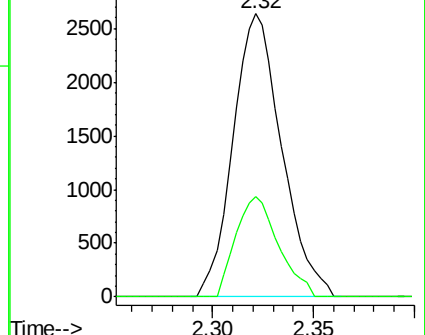
43 100

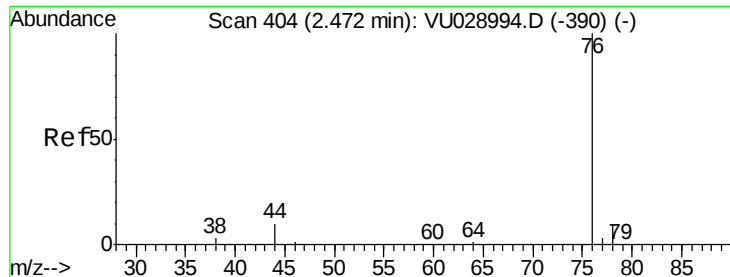
58 35.5 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

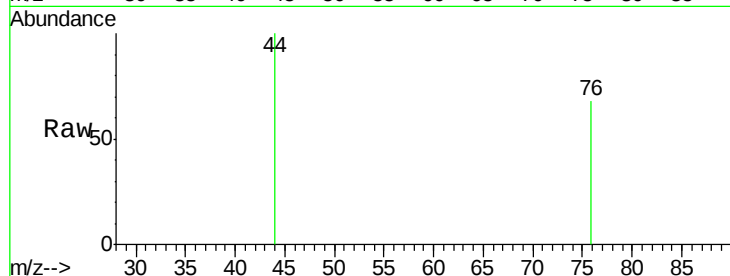
PB116371ZHE#01

Tot Ion: 76 Resp: 417

Ion Ratio Lower Upper

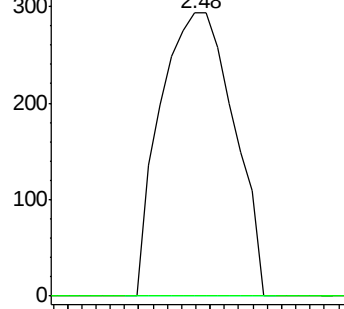
76 100

78 0.0 7.2 10.8#

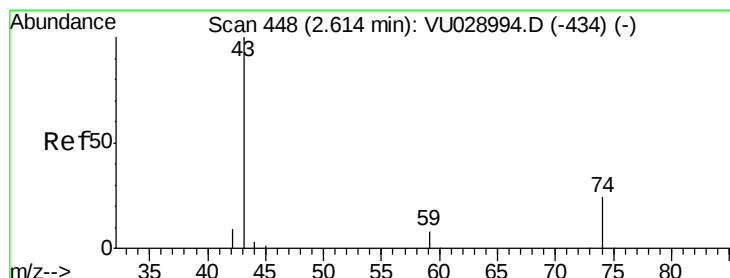
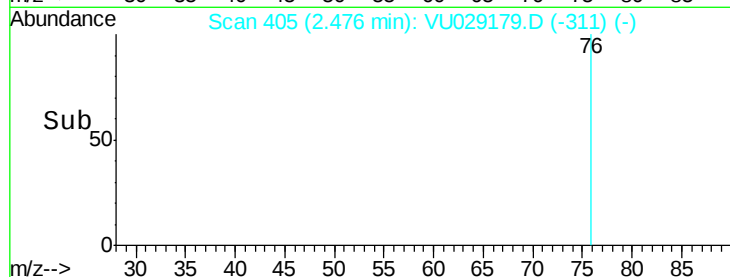


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time-->



#18

Methyl Acetate

Concen: 0.556 ug/l

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU029179.D

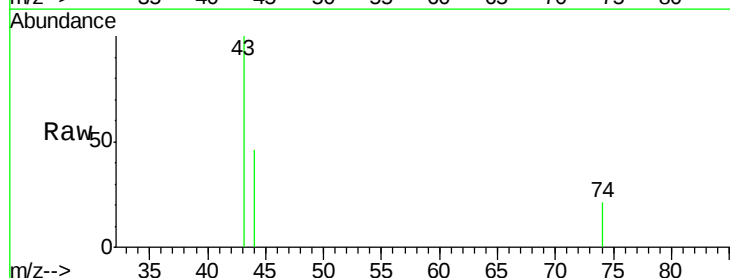
Acq: 15 Jan 2019 12:41

Tgt Ion: 43 Resp: 1163

Ion Ratio Lower Upper

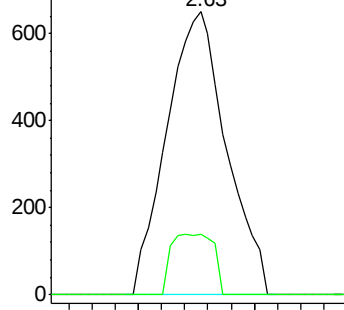
43 100

74 15.1 19.5 29.3#

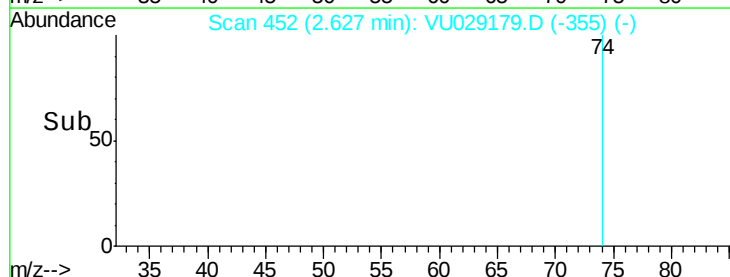


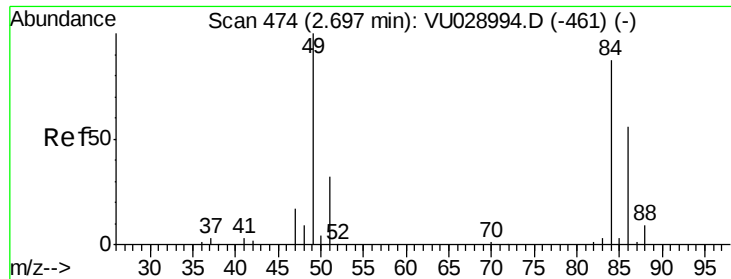
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



Time-->

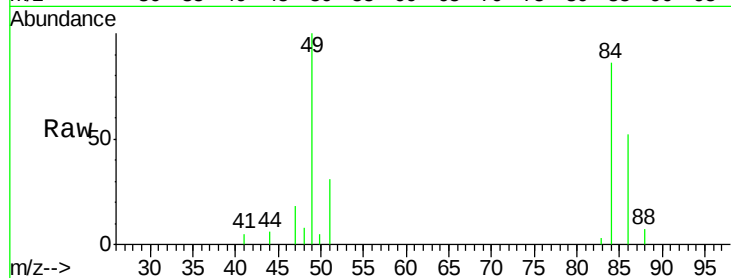




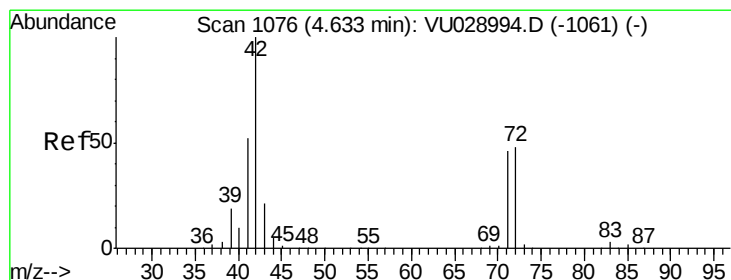
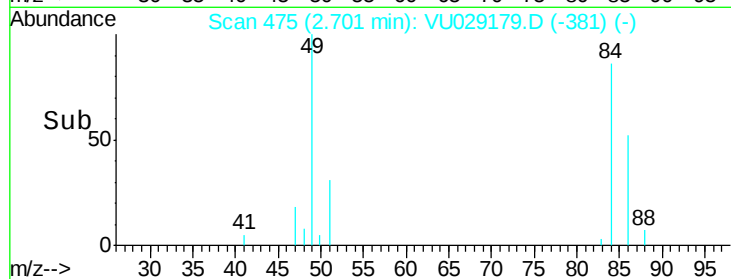
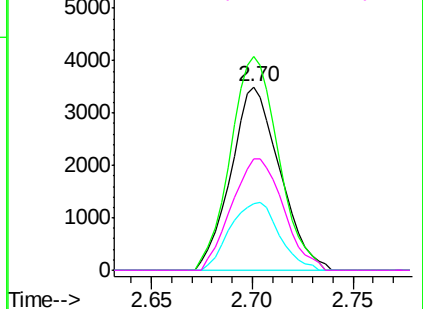
#20
Methvlene Chloride
Concen: 3.891 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029179.D
Acq: 15 Jan 2019 12:41

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#01

Tot Ion:	84	Resp:	5947
Ion	Ratio	Lower	Upper
84	100		
49	116.3	91.9	137.9
51	35.9	29.2	43.8
86	60.8	51.8	77.6

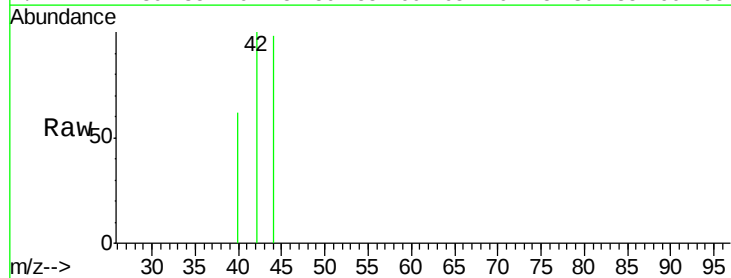


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

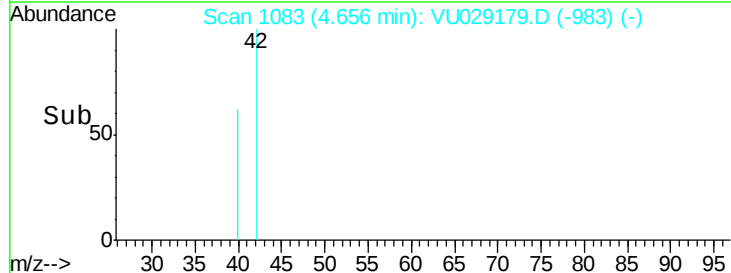
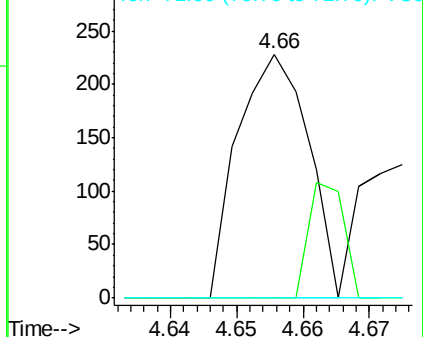


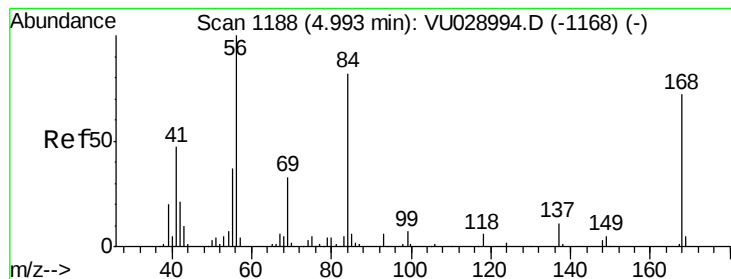
#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 4.66 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VU029179.D
Acq: 15 Jan 2019 12:41

Tgt Ion:	42	Resp:	169
Ion	Ratio	Lower	Upper
42	100		
72	23.7	38.3	57.5#
71	0.0	36.1	54.1#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#01

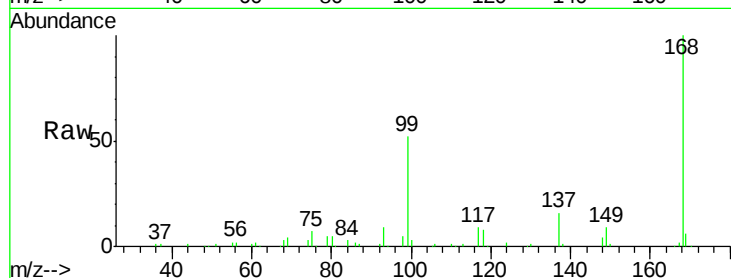
Tot Ion: 56 Resp: 2021

Ion Ratio Lower Upper

56 100

69 174.1 26.7 40.1#

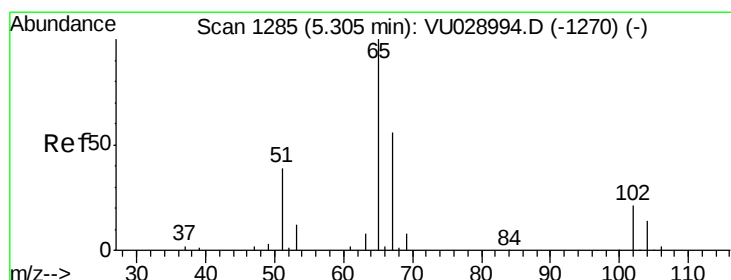
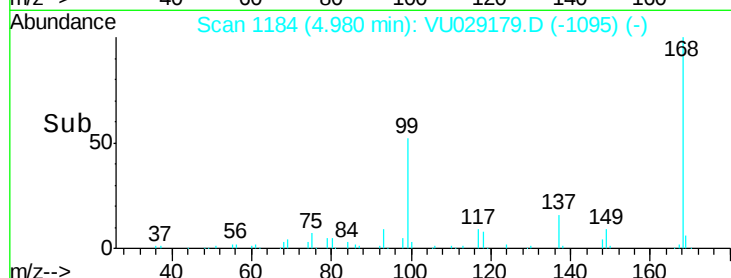
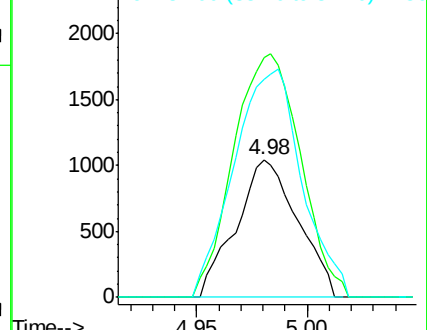
84 158.0 65.7 98.5#



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: 54.797 ug/l

RT: 5.31 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VU029179.D

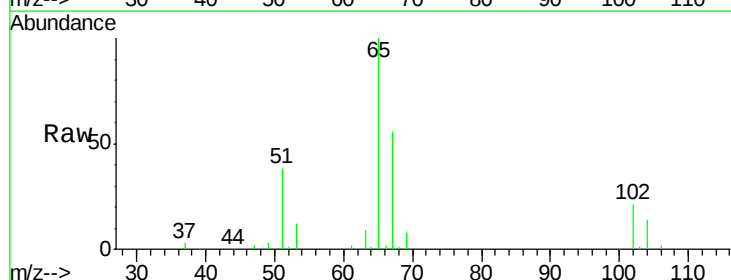
Acq: 15 Jan 2019 12:41

Tgt Ion: 65 Resp: 78296

Ion Ratio Lower Upper

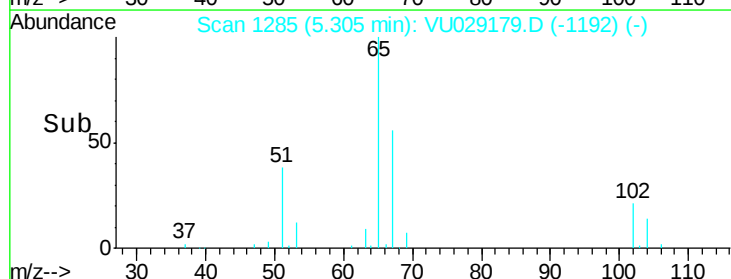
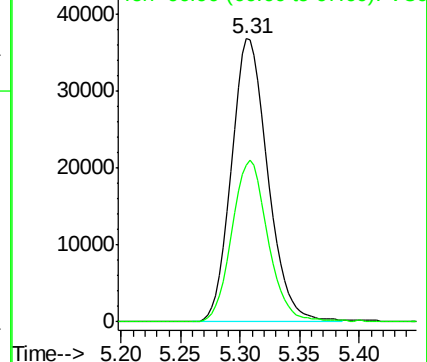
65 100

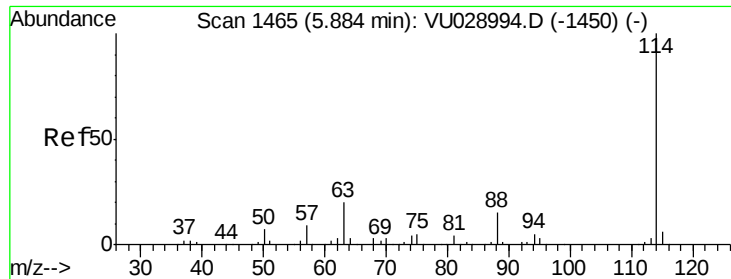
67 56.3 0.0 111.0



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: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#01

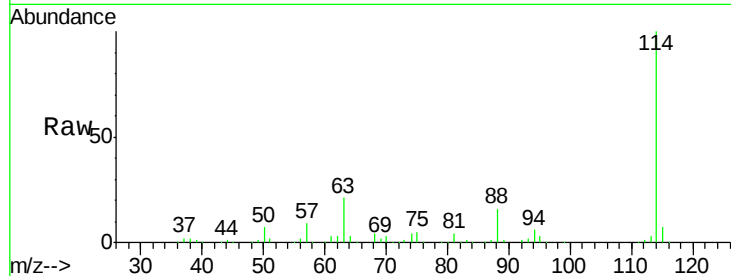
Tot Ion:114 Resp: 205232

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.2

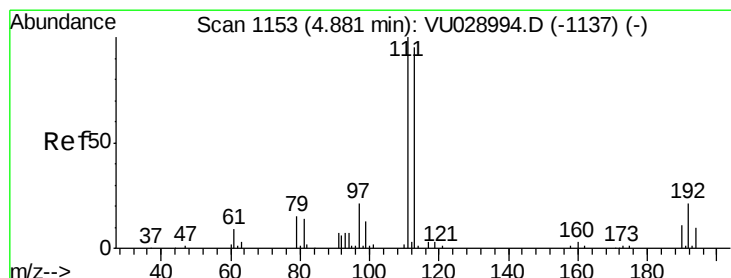
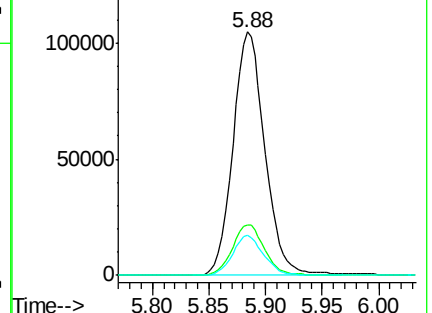
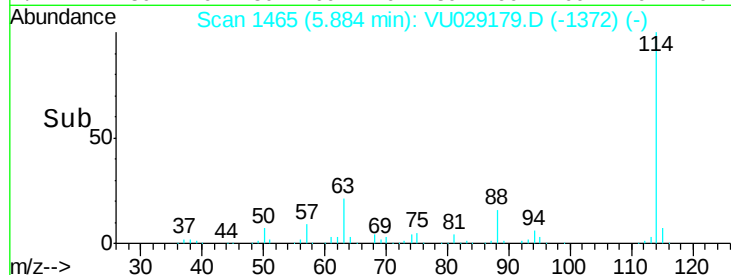
88 16.3 0.0 30.4



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: 51.525 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

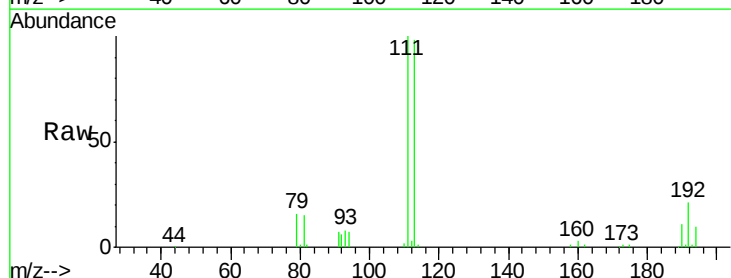
Tgt Ion:113 Resp: 68548

Ion Ratio Lower Upper

113 100

111 103.7 81.4 122.2

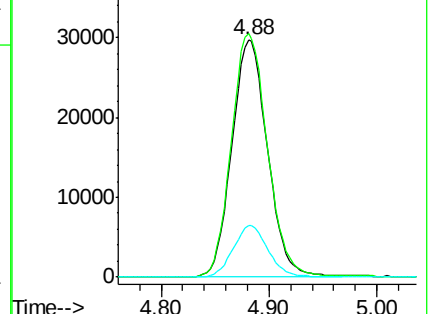
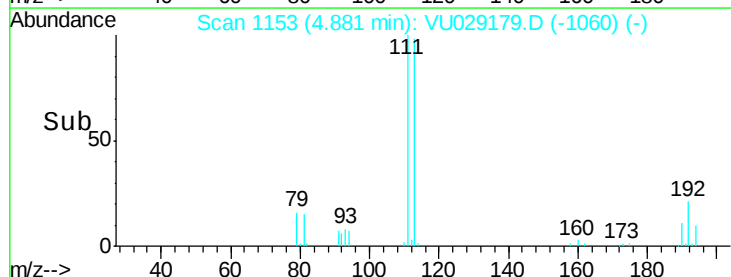
192 21.1 16.8 25.2

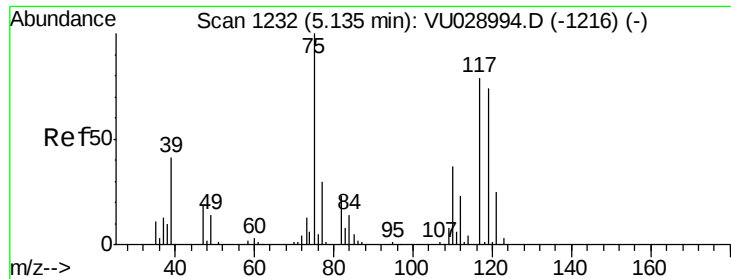


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

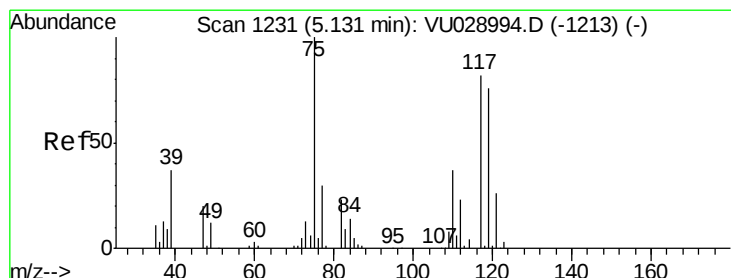
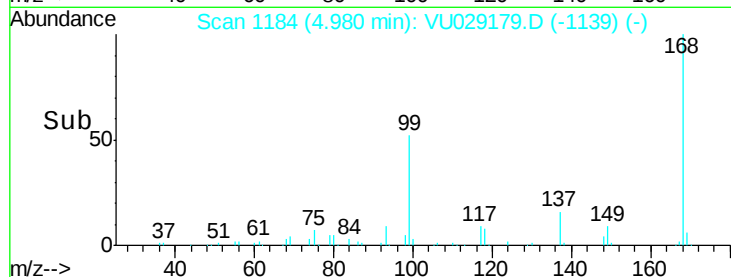
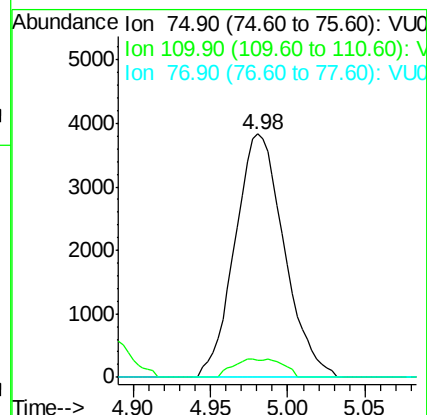
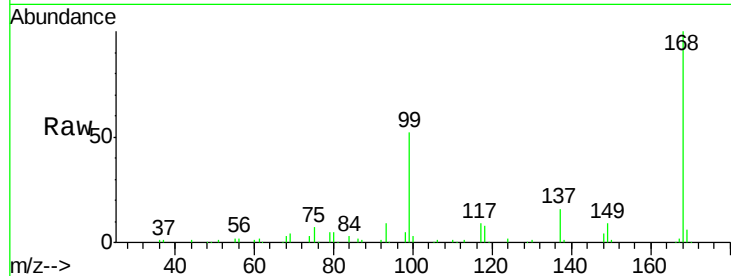




#36
 1,1-Dichloropropene
 Concen: 4.125 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029179.D
 Acq: 15 Jan 2019 12:41

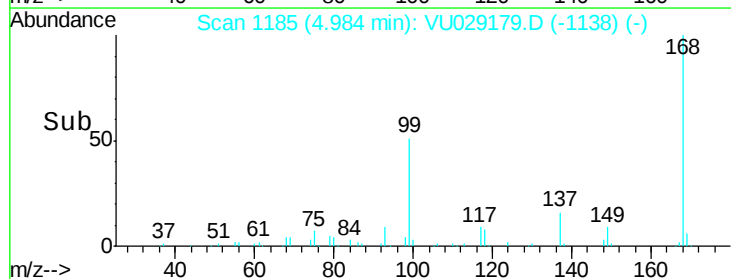
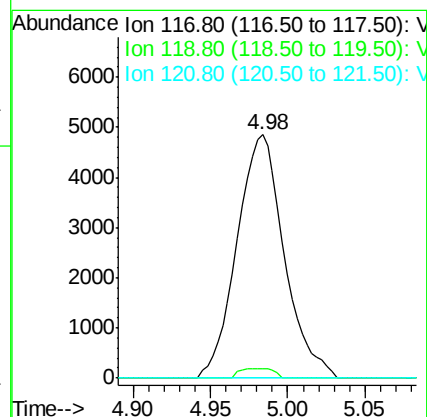
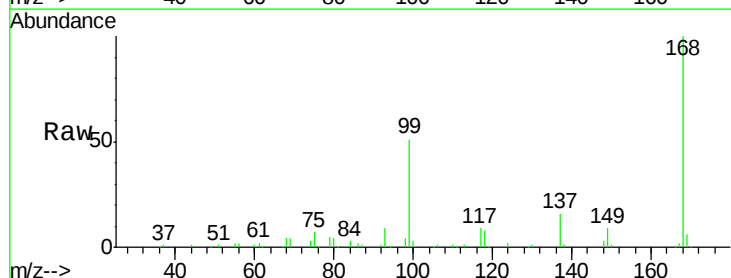
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#01

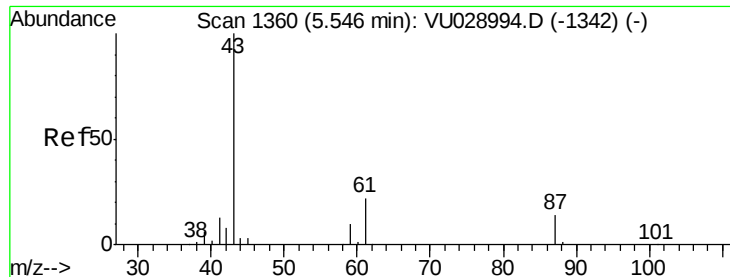
Tot Ion: 75 Resp: 8463
 Ion Ratio Lower Upper
 75 100
 110 3.9 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.018 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029179.D
 Acq: 15 Jan 2019 12:41

Tgt Ion: 117 Resp: 10297
 Ion Ratio Lower Upper
 117 100
 119 3.9 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.567 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#01

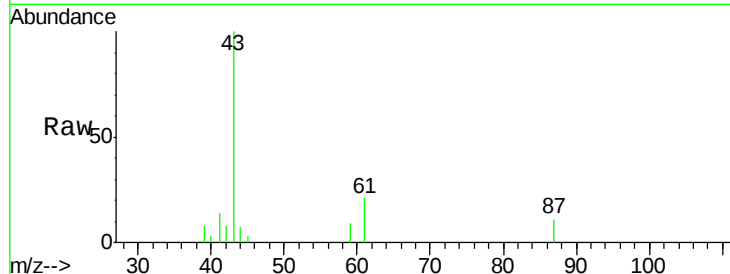
Tot Ion: 43 Resp: 8867

Ion Ratio Lower Upper

43 100

61 19.1 17.8 26.6

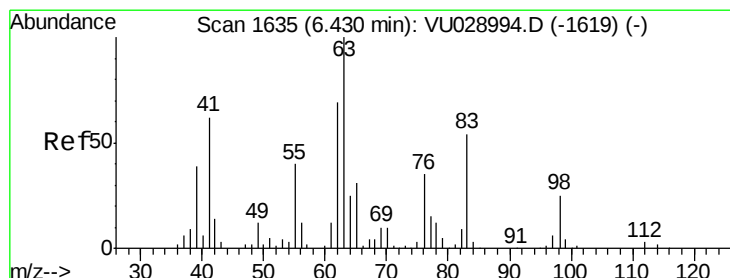
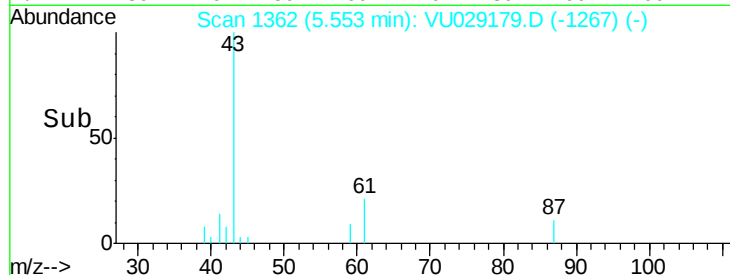
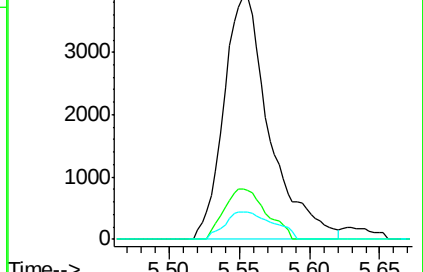
87 11.9 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029179.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029179.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029179.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.485 ug/l

RT: 6.70 min Scan# 1718

Delta R.T. 0.27 min

Lab File: VU029179.D

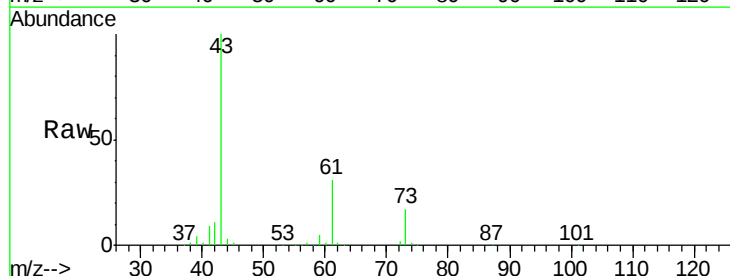
Acq: 15 Jan 2019 12:41

Tgt Ion: 63 Resp: 820

Ion Ratio Lower Upper

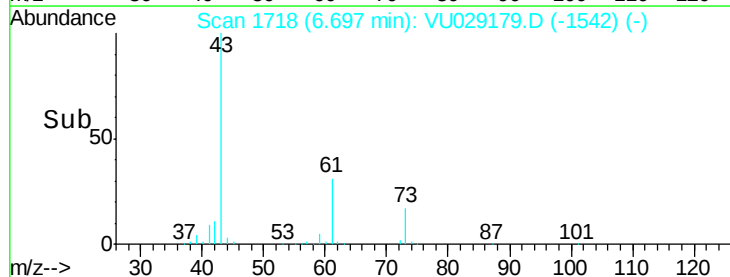
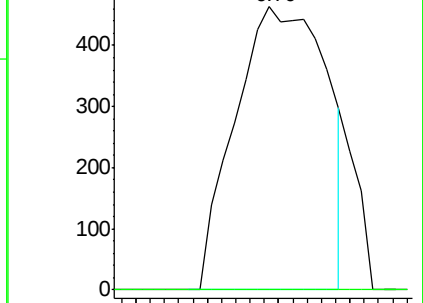
63 100

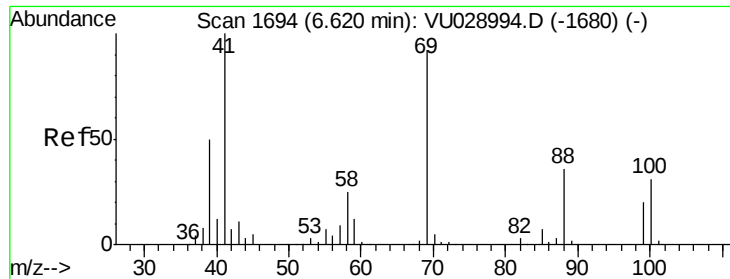
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029179.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029179.D (-1542) (-)

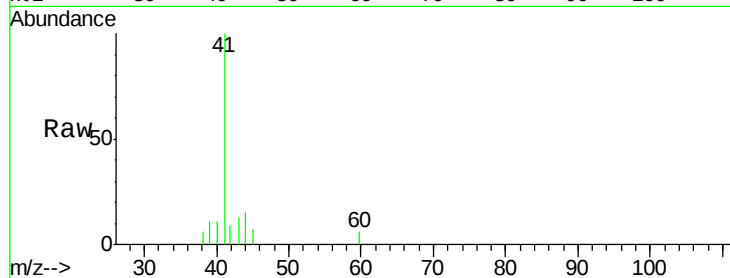




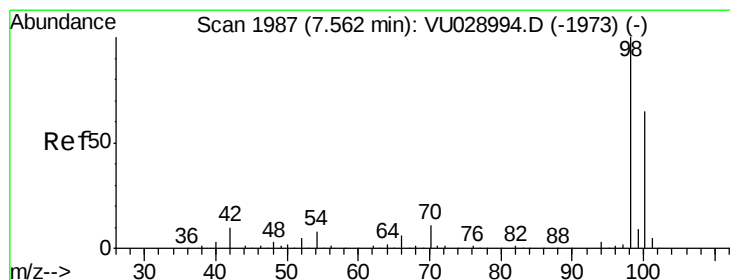
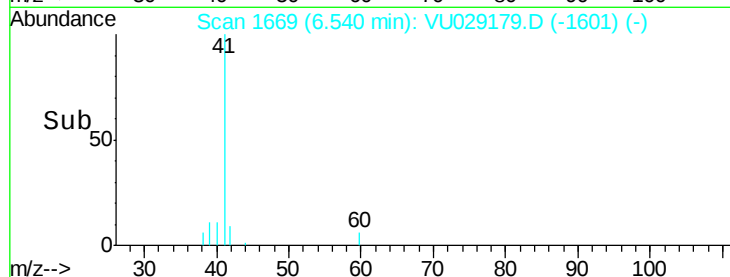
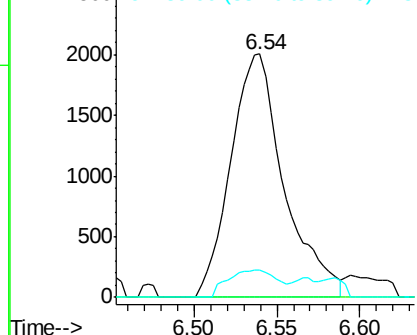
#48
Methvl methacrylate
Concen: 2.665 ug/l
RT: 6.54 min Scan# 1669
Delta R.T. -0.08 min
Lab File: VU029179.D
Acq: 15 Jan 2019 12:41

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#01

Tot Ion: 41 Resp: 4483
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 0.0 39.6 59.4#

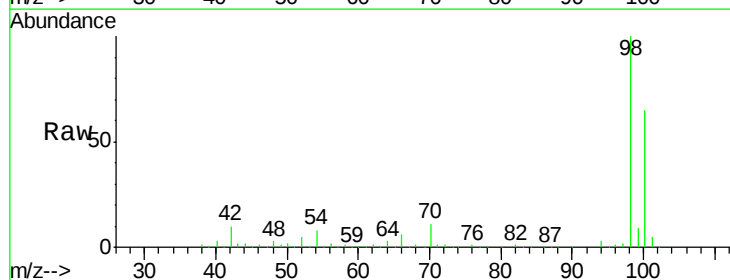


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

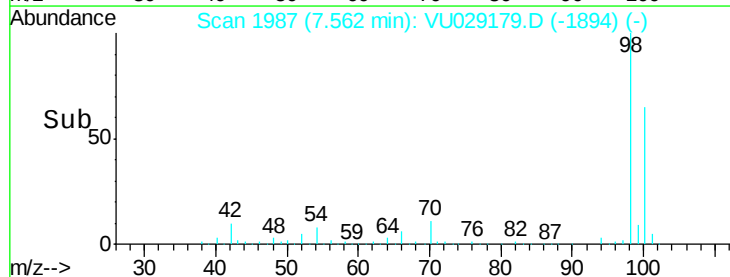
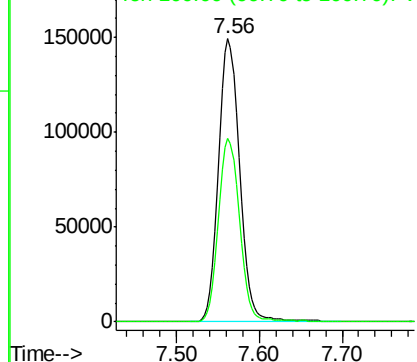


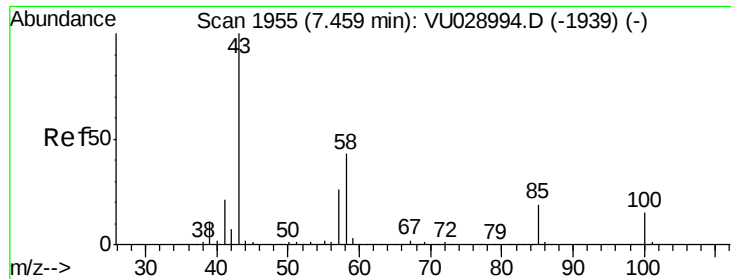
#50
Toluene-d8
Concen: 50.657 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029179.D
Acq: 15 Jan 2019 12:41

Tgt Ion: 98 Resp: 266060
Ion Ratio Lower Upper
98 100
100 64.3 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: 2.199 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

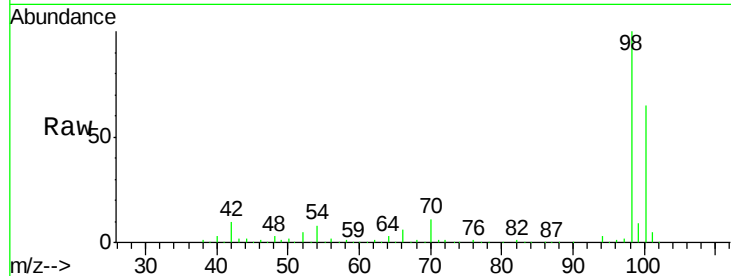
PB116371ZHE#01

Tot Ion: 43 Resp: 5169

Ion Ratio Lower Upper

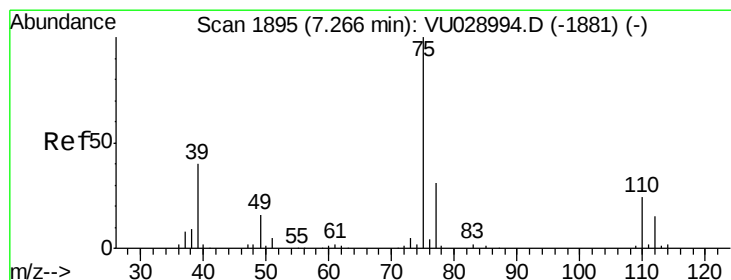
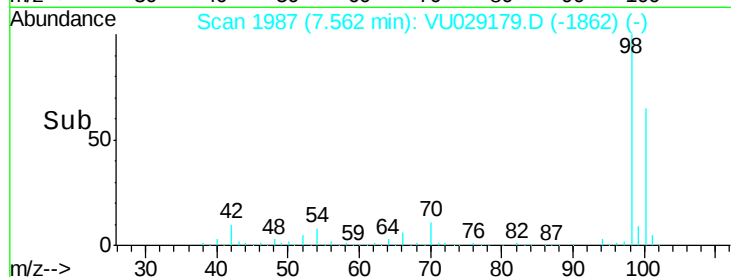
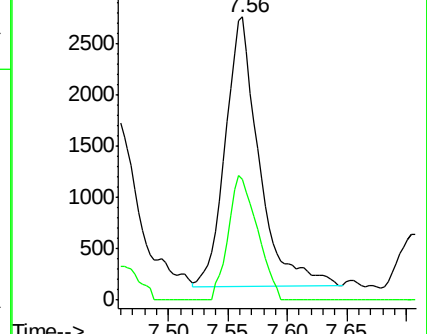
43 100

58 39.8 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: 9.002 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

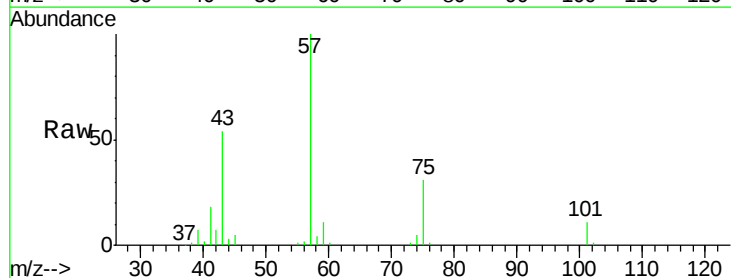
Tgt Ion: 75 Resp: 23239

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

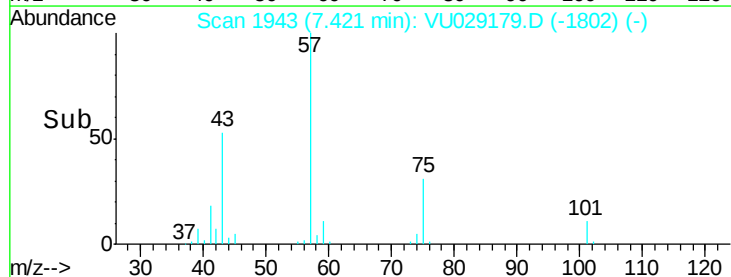
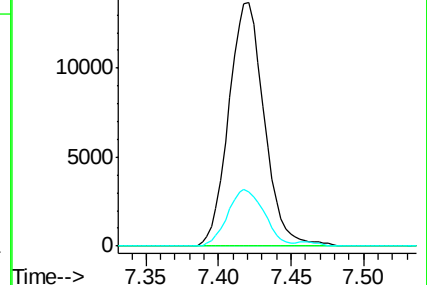
39 22.5 32.2 48.4#

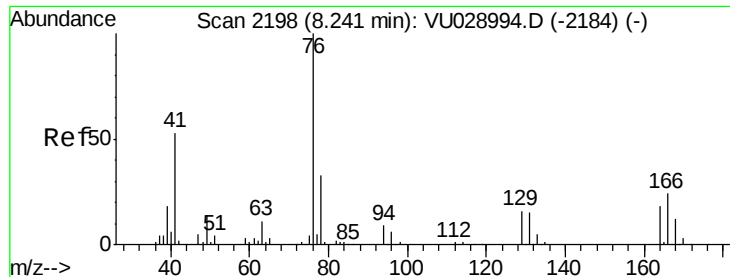


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 1.910 ug/l

RT: 8.41 min Scan# 2251

Delta R.T. 0.17 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

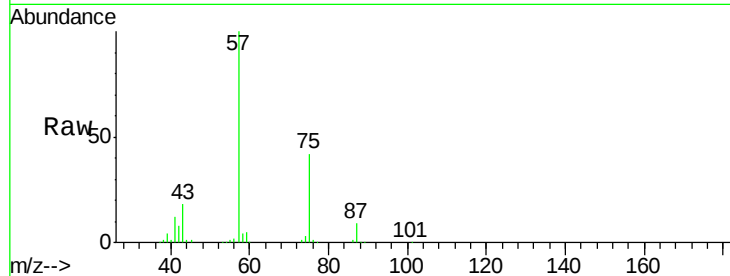
PB116371ZHE#01

Tot Ion: 76 Resp: 5101

Ion Ratio Lower Upper

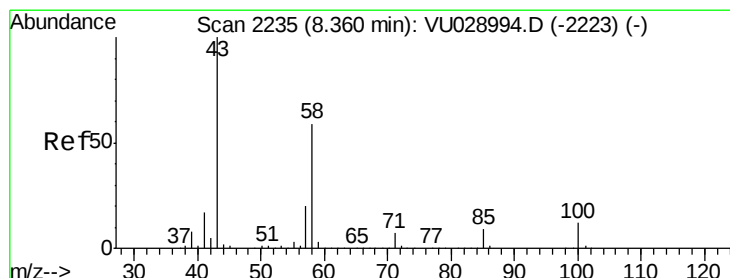
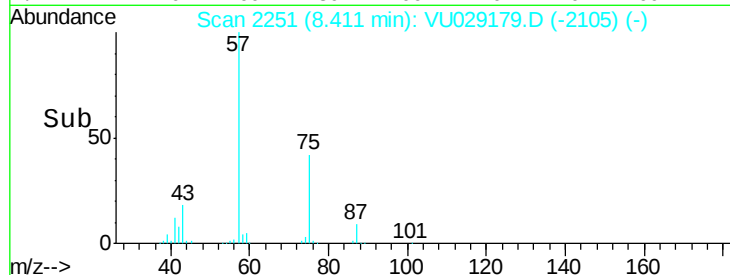
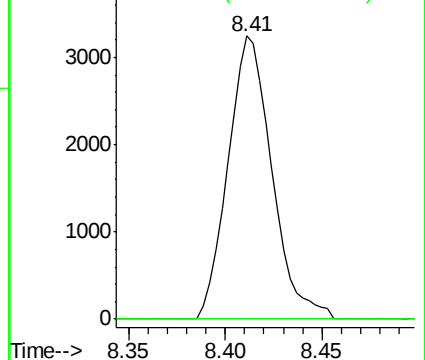
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 3.908 ug/l

RT: 8.31 min Scan# 2219

Delta R.T. -0.05 min

Lab File: VU029179.D

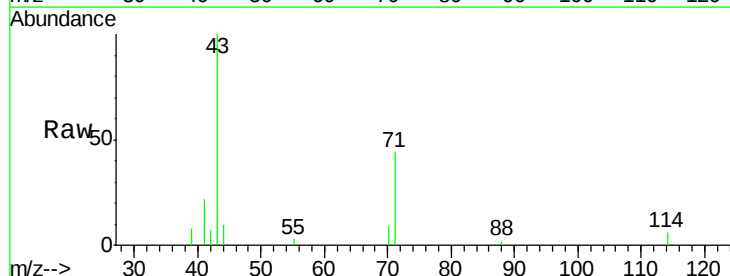
Acq: 15 Jan 2019 12:41

Tgt Ion: 43 Resp: 7211

Ion Ratio Lower Upper

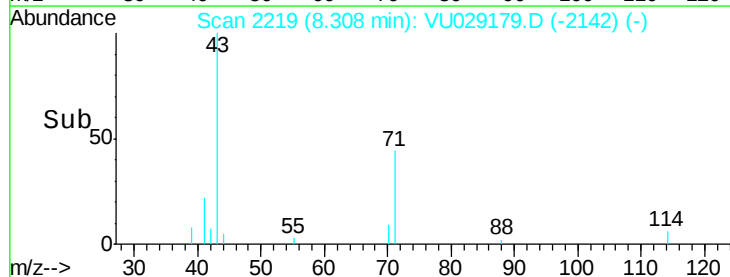
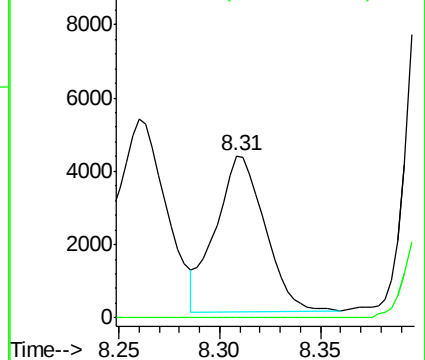
43 100

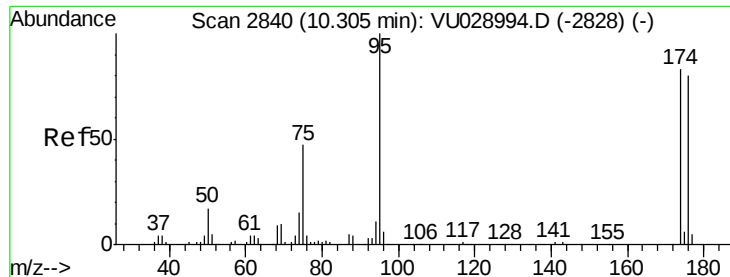
58 0.0 29.8 89.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

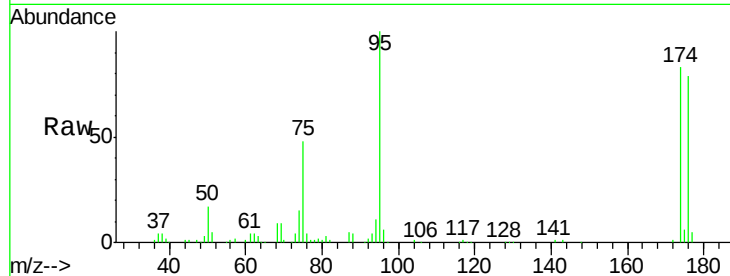




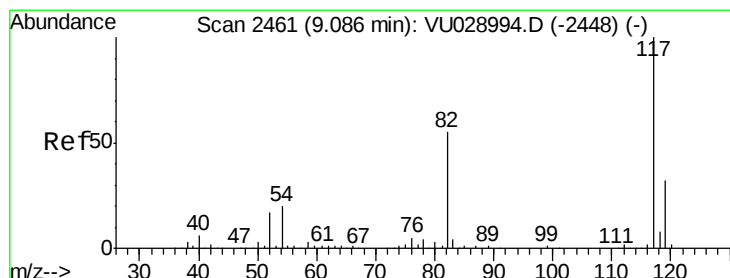
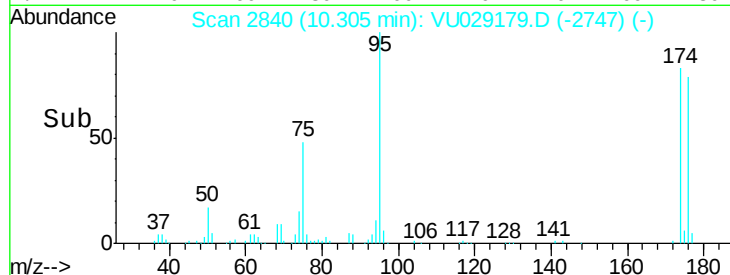
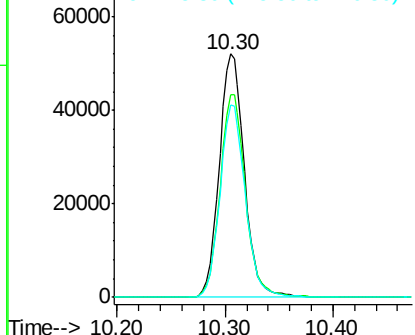
#62
4-Bromofluorobenzene
Concen: 44.465 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029179.D
Acq: 15 Jan 2019 12:41

Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#01

Tot Ion: 95 Resp: 83929
Ion Ratio Lower Upper
95 100
174 84.6 0.0 170.6
176 80.0 0.0 165.0

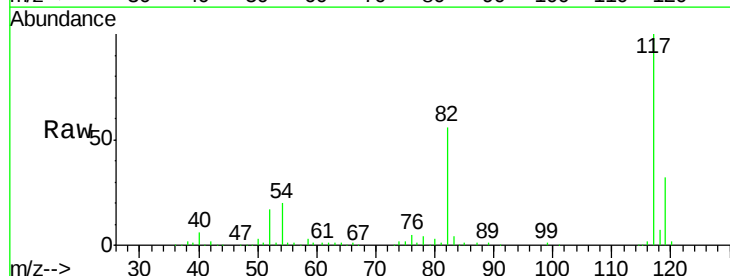


Abundance Ion 94.90 (94.60 to 95.60): VU028994.D (-2828) (-)
Ion 173.80 (173.50 to 174.50): VU028994.D (-2828) (-)
Ion 175.80 (175.50 to 176.50): VU028994.D (-2828) (-)

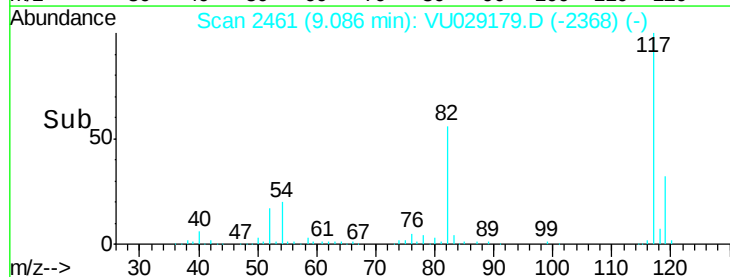
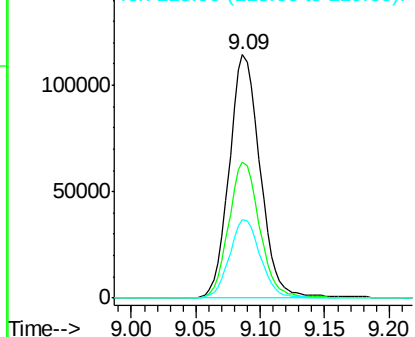


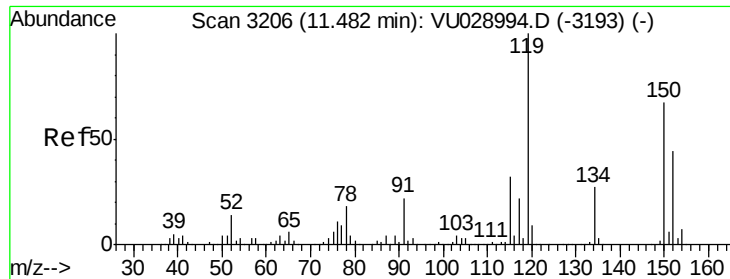
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029179.D
Acq: 15 Jan 2019 12:41

Tgt Ion: 117 Resp: 190710
Ion Ratio Lower Upper
117 100
82 56.0 43.9 65.9
119 32.1 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VU028994.D (-2448) (-)
Ion 82.00 (81.70 to 82.70): VU028994.D (-2448) (-)
Ion 118.90 (118.60 to 119.60): VU028994.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: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#01

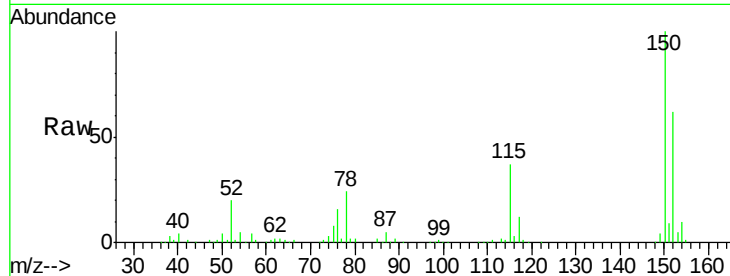
Tot Ion:152 Resp: 76691

Ion Ratio Lower Upper

152 100

115 57.7 40.1 120.3

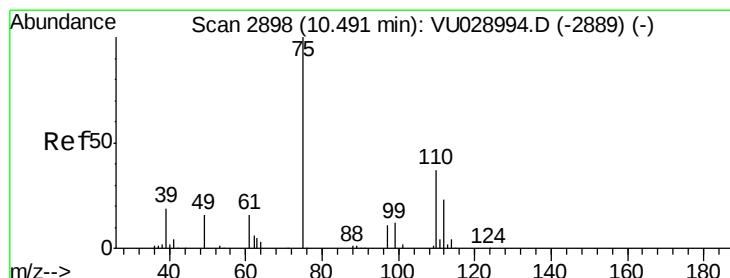
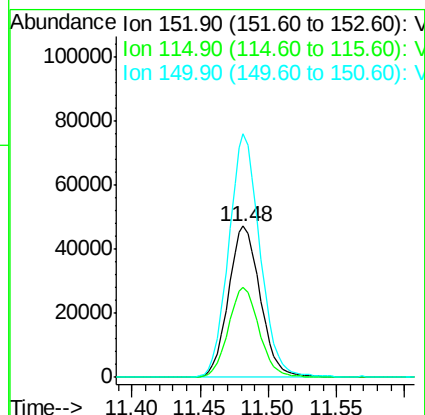
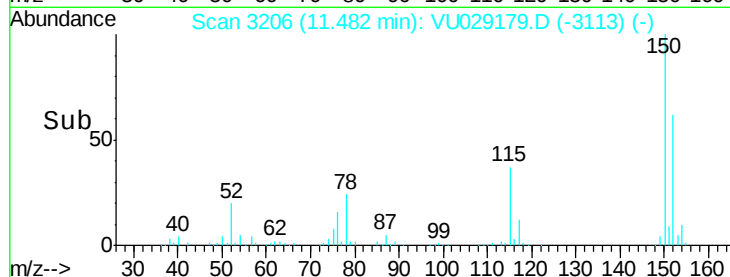
150 157.8 0.0 345.2



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: 21.310 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029179.D

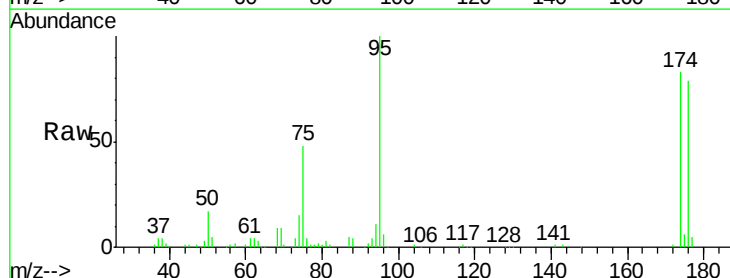
Acq: 15 Jan 2019 12:41

Tgt Ion: 75 Resp: 40043

Ion Ratio Lower Upper

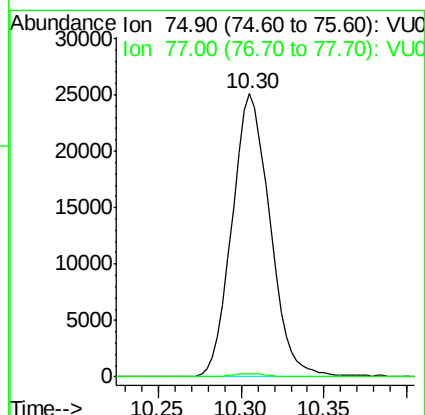
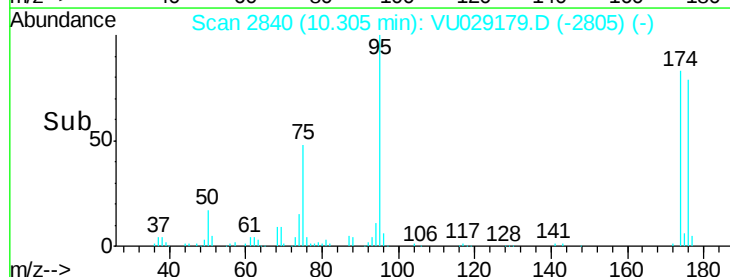
75 100

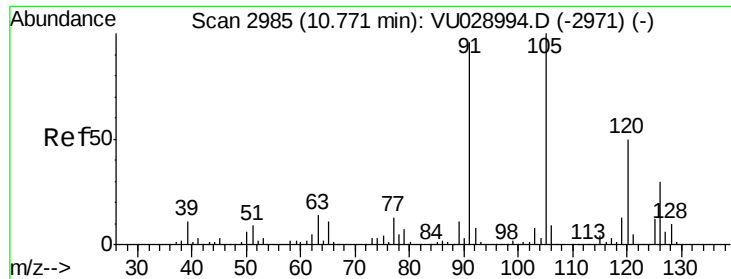
77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.236 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

Instrument :

MSVOA_U

ClientSampleId :

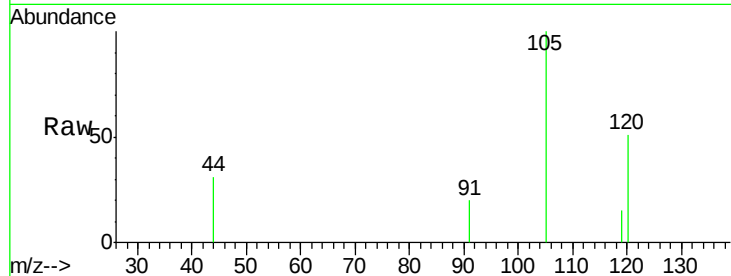
PB116371ZHE#01

Tot Ion:105 Resp: 1119

Ion Ratio Lower Upper

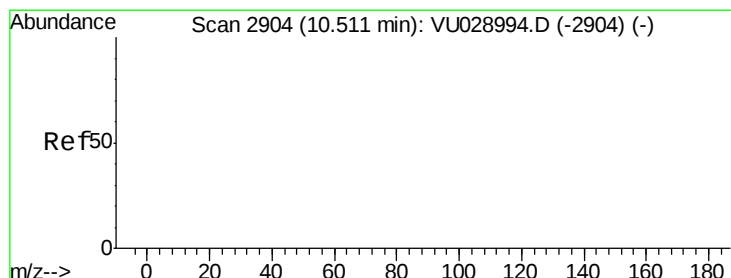
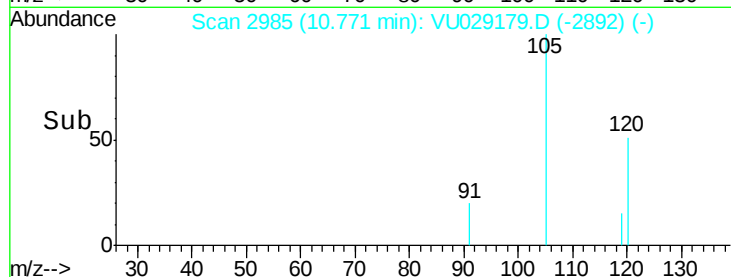
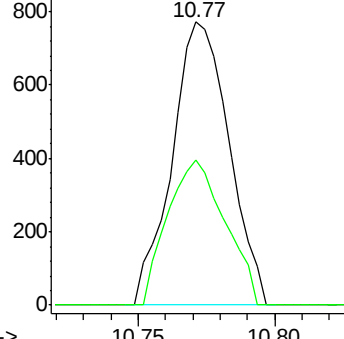
105 100

120 51.9 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: 54.960 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029179.D

Acq: 15 Jan 2019 12:41

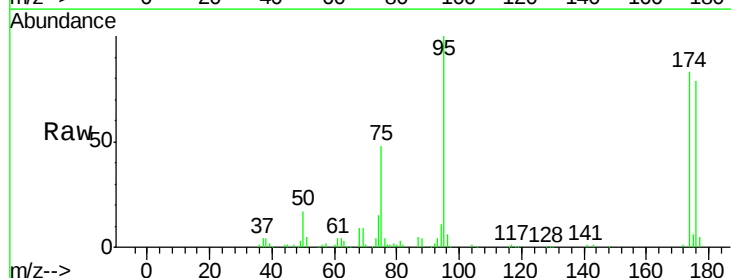
Tgt Ion: 75 Resp: 40043

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

