

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062118\
 Data File : VU024815.D
 Acq On : 21 Jun 2018 16:53
 Operator : MD/SY
 Sample : J3539-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0184

Quant Time: Jun 22 03:52:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	193781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	295365	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146385	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	137648	43.51	ug/l	0.00
Spiked Amount			Recovery	=	87.02%	
35) Dibromofluoromethane	4.89	113	115423	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	7.57	98	432839	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
62) 4-Bromofluorobenzene	10.31	95	157526	44.37	ug/l	0.00
Spiked Amount			Recovery	=	88.74%	

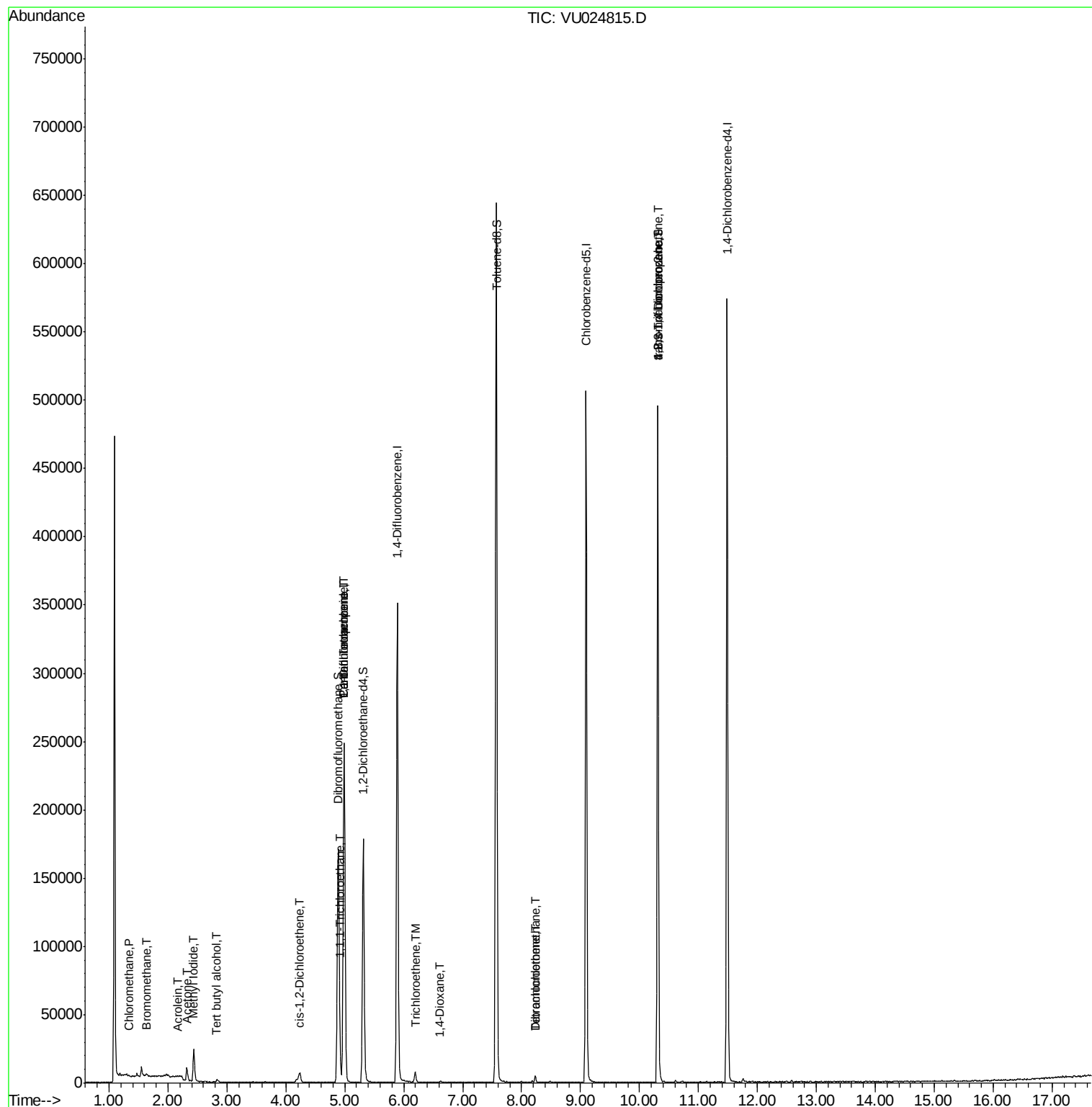
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	882	0.356	ug/l #	84
5) Bromomethane	1.63	94	447	0.362	ug/l #	74
6) Chloroethane	1.70	64	22	Below Cal	#	43
10) Methyl Iodide	2.42	142	42	5.307	ug/l #	40
11) Tert butyl alcohol	2.84	59	776	1.009	ug/l #	90
13) Acrolein	2.17	56	458	1.134	ug/l #	13
16) Acetone	2.32	43	11649	6.853	ug/l	96
27) cis-1,2-Dichloroethene	4.24	96	4330	1.550	ug/l	80
31) Cyclohexane	4.99	56	4041	Below Cal	#	8
32) 1,1,1-Trichloroethane	4.92	97	5783	1.322	ug/l	94
36) 1,1-Dichloropropene	4.99	75	14105	4.064	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18306	4.796	ug/l #	16
44) Trichloroethene	6.19	130	2696	0.958	ug/l	86
49) 1,4-Dioxane	6.61	88	246	3.951	ug/l #	35
60) Dibromochloromethane	8.23	129	1118	0.347	ug/l #	11
64) Tetrachloroethene	8.23	164	1212	0.456	ug/l	89
76) 1,2,3-Trichloropropane	10.31	75	81478	25.281	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	81478	58.511	ug/l #	100

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

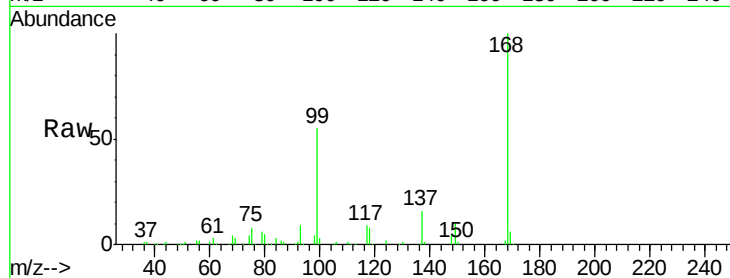
S39-0184

Tot Ion:168 Resp: 193781

Ion Ratio Lower Upper

168 100

99 54.8 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024815.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024815.D (-1275) (-)

4.99

80000

60000

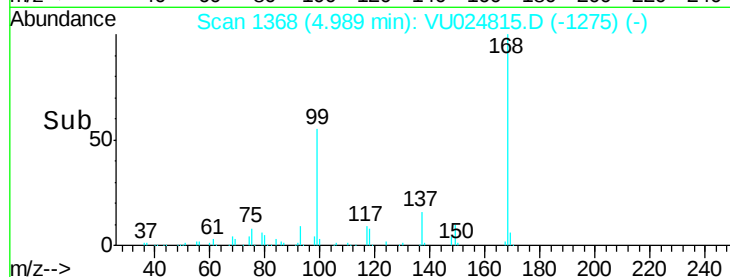
40000

20000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#3

Chloromethane

Concen: 0.356 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024815.D

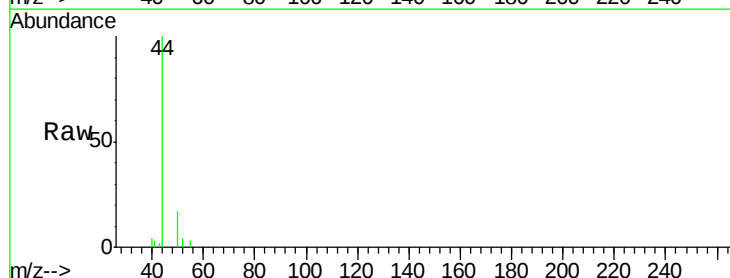
Acq: 21 Jun 2018 16:53

Tgt Ion: 50 Resp: 882

Ion Ratio Lower Upper

50 100

52 23.9 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024815.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024815.D (-137) (-)

1.33

800

600

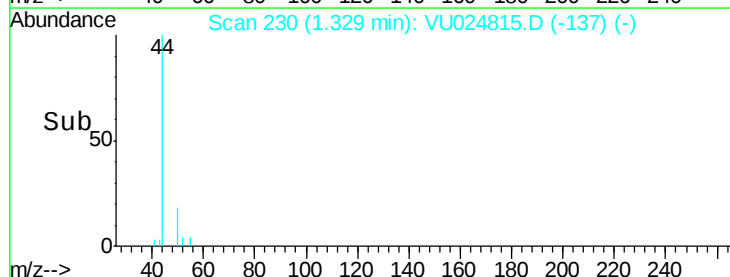
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: 0.362 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

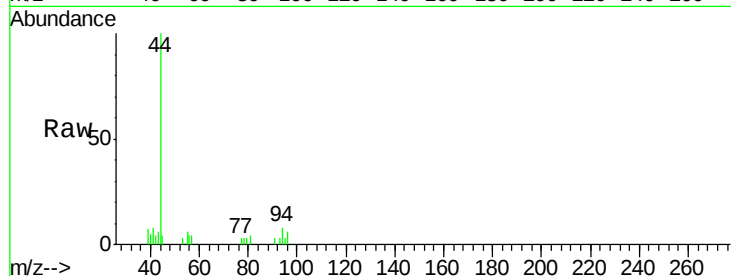
S39-0184

Tot Ion: 94 Resp: 447

Ion Ratio Lower Upper

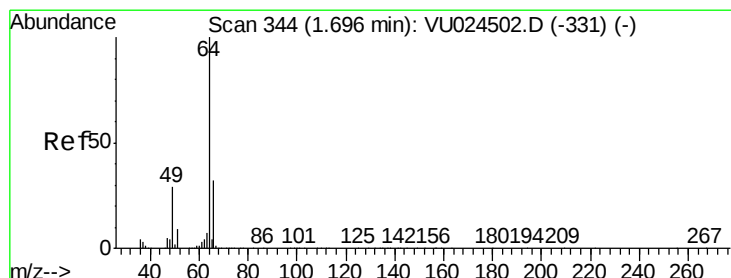
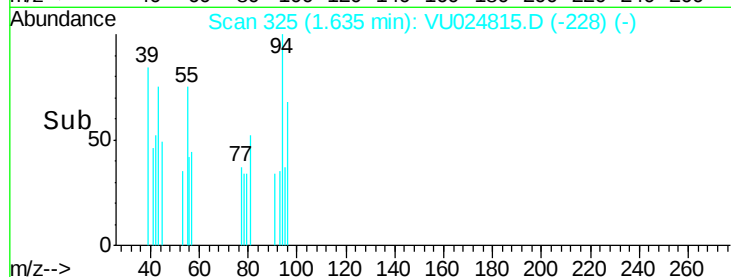
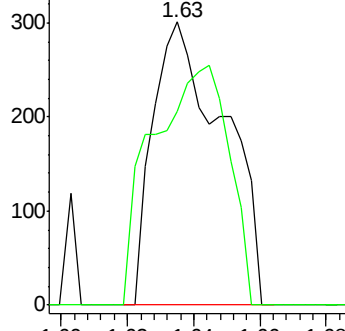
94 100

96 68.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024815.D

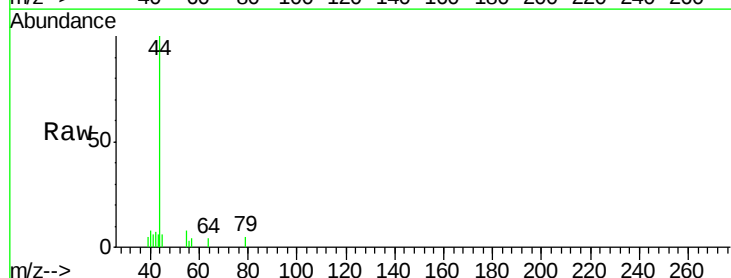
Acq: 21 Jun 2018 16:53

Tgt Ion: 64 Resp: 22

Ion Ratio Lower Upper

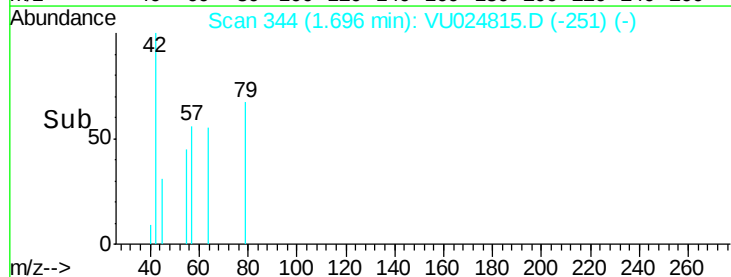
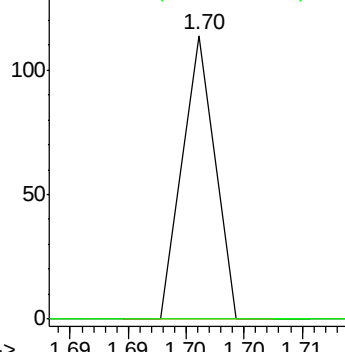
64 100

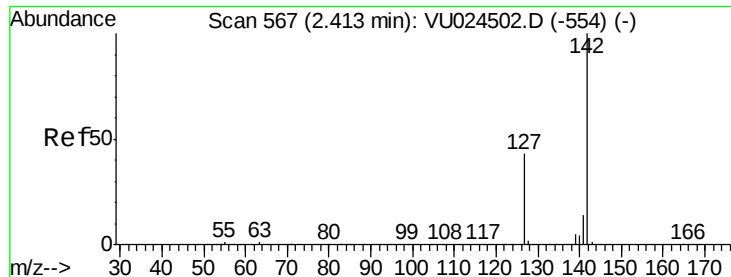
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

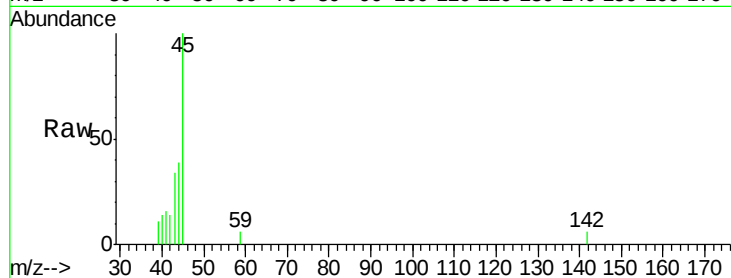




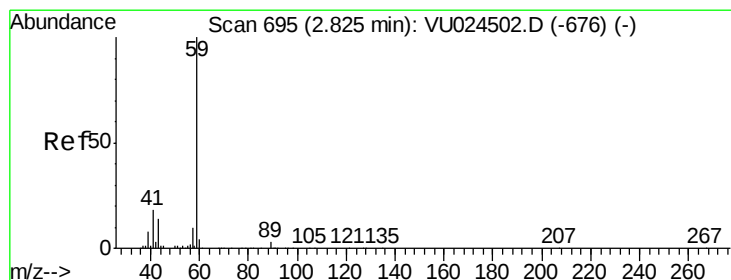
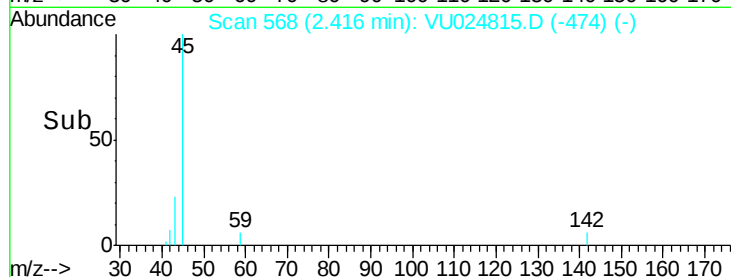
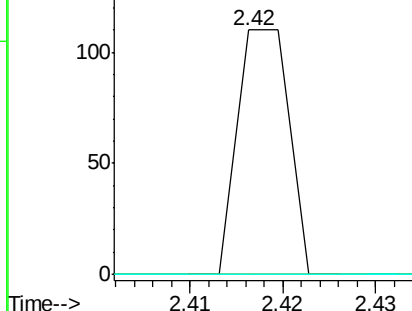
#10
Methvl Iodide
Concen: 5.307 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU024815.D
Acq: 21 Jun 2018 16:53

Instrument :
MSVOA_U
ClientSampled :
S39-0184

Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.6	53.4#
141	0.0	11.7	17.5#

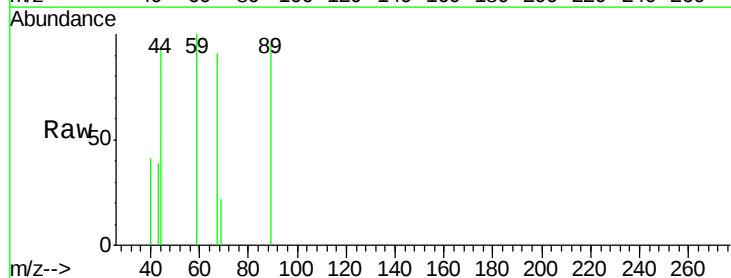


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

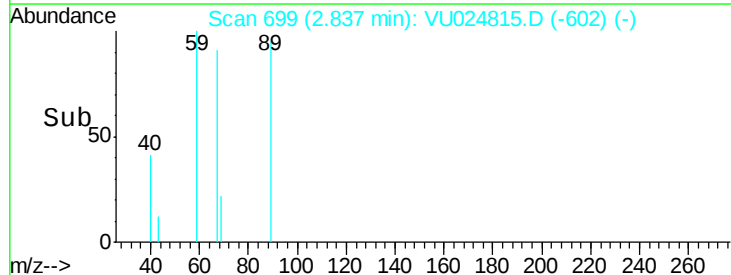
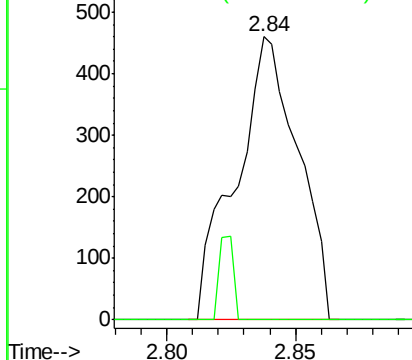


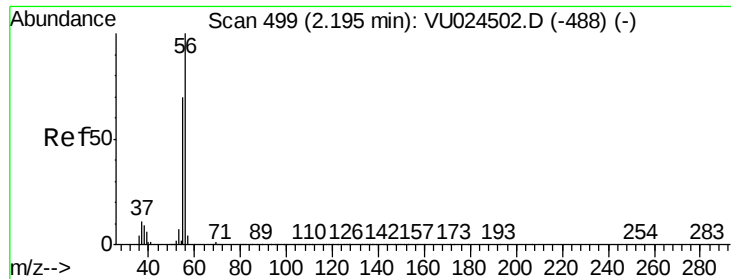
#11
Tert butyl alcohol
Concen: 1.009 ug/l
RT: 2.84 min Scan# 699
Delta R.T. 0.01 min
Lab File: VU024815.D
Acq: 21 Jun 2018 16:53

Tgt Ion	Ratio	Lower	Upper
59	100		
57	6.7	8.5	12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 1.134 ug/l

RT: 2.17 min Scan# 490

Delta R.T. -0.03 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampled :

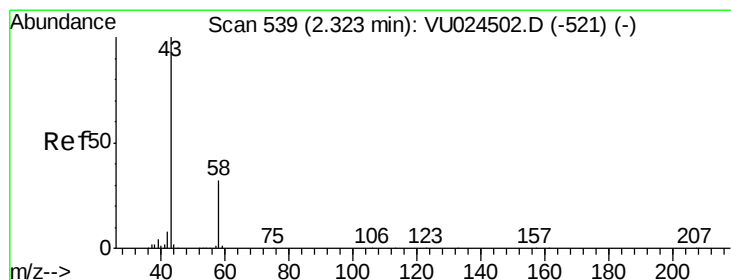
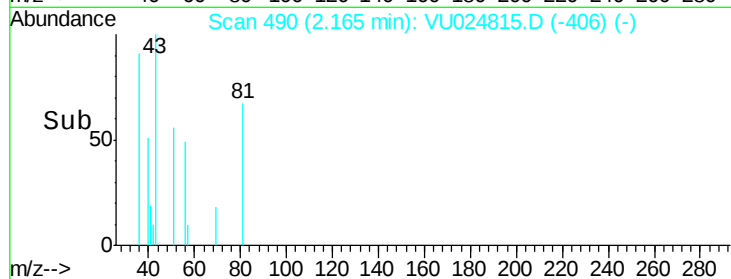
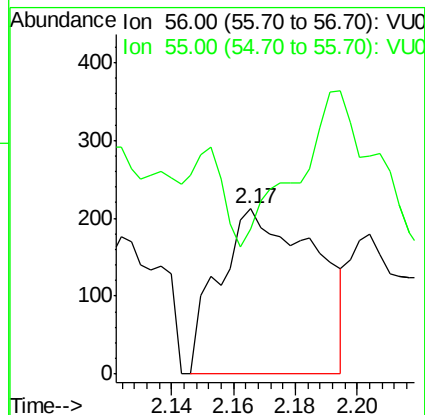
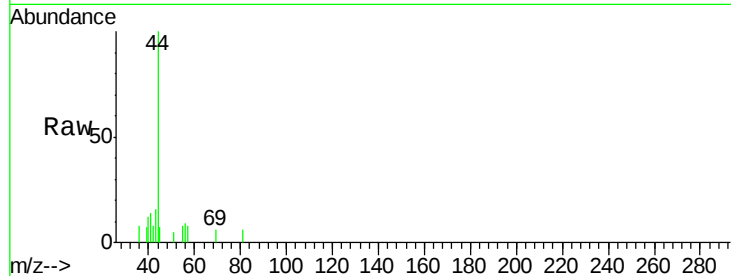
S39-0184

Tot Ion: 56 Resp: 458

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 6.853 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024815.D

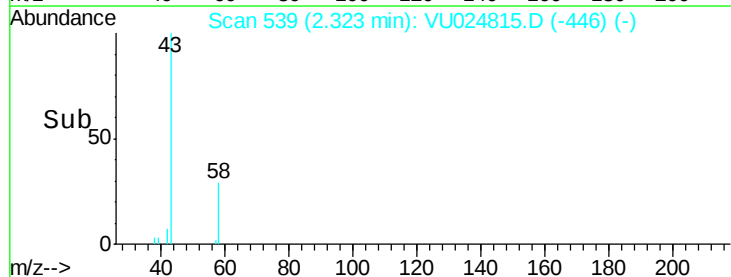
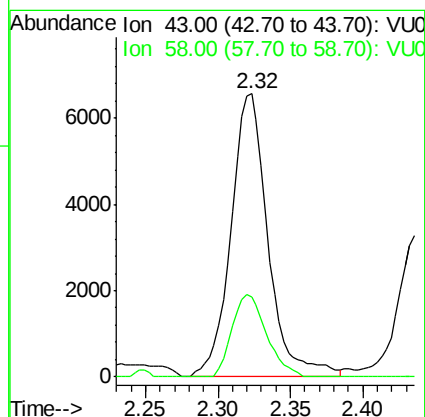
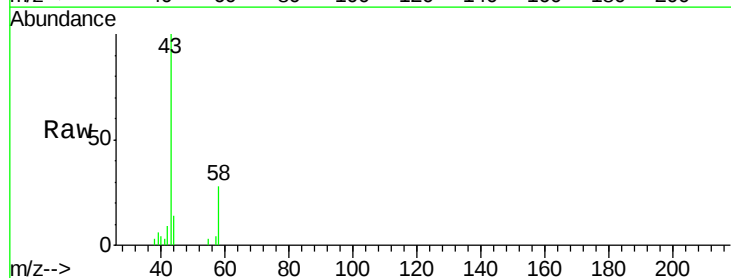
Acq: 21 Jun 2018 16:53

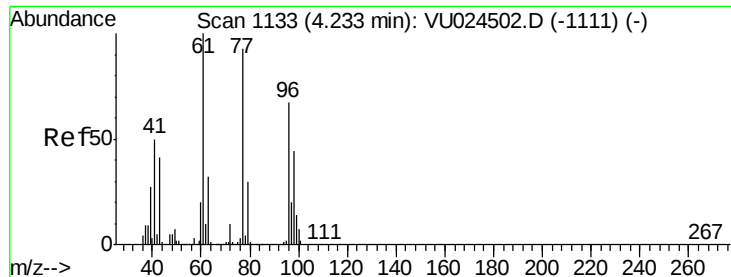
Tgt Ion: 43 Resp: 11649

Ion Ratio Lower Upper

43 100

58 28.2 24.4 36.6





#27

cis-1,2-Dichloroethene

Concen: 1.550 ug/l

RT: 4.24 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampled :

S39-0184

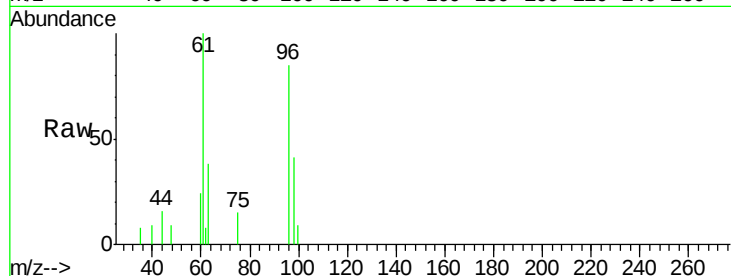
Tot Ion: 96 Resp: 4330

Ion Ratio Lower Upper

96 100

61 120.6 0.0 306.6

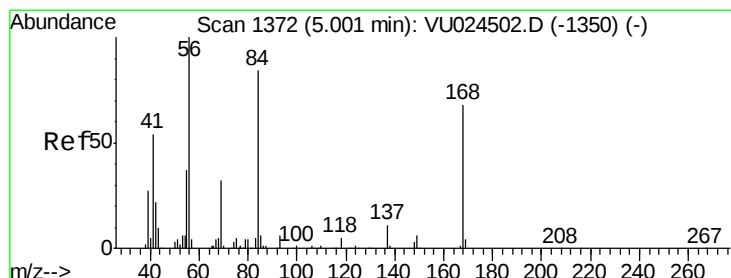
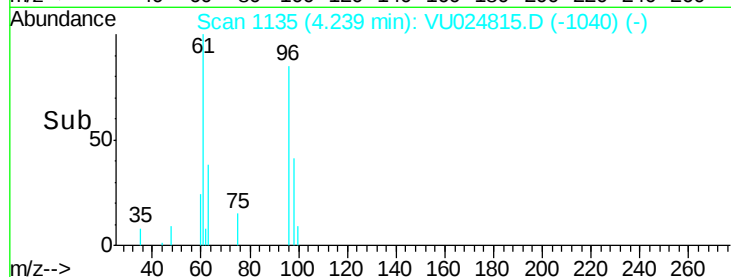
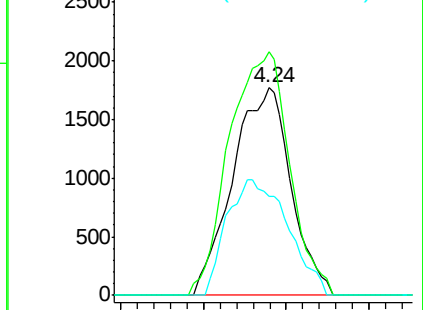
98 58.3 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

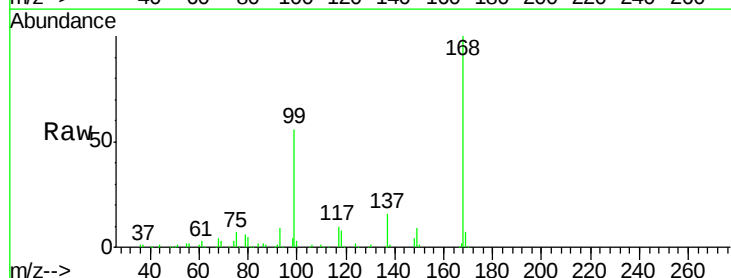
Tgt Ion: 56 Resp: 4041

Ion Ratio Lower Upper

56 100

69 158.5 24.8 37.2#

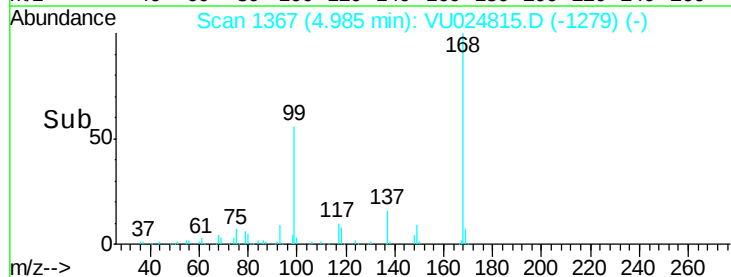
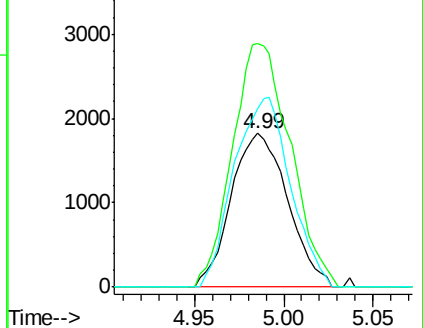
84 116.4 65.2 97.8#

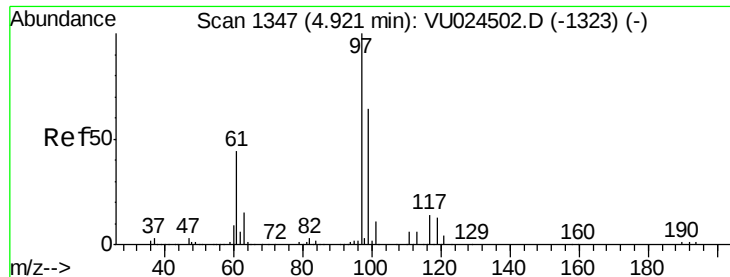


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#32

1,1,1-Trichloroethane

Concen: 1.322 ug/l

RT: 4.92 min Scan# 1347

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

S39-0184

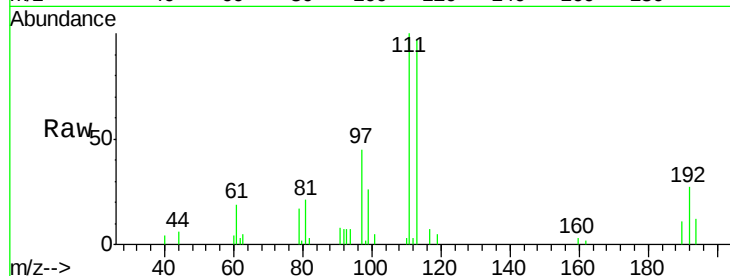
Tot Ion: 97 Resp: 5783

Ion Ratio Lower Upper

97 100

99 60.7 51.0 76.6

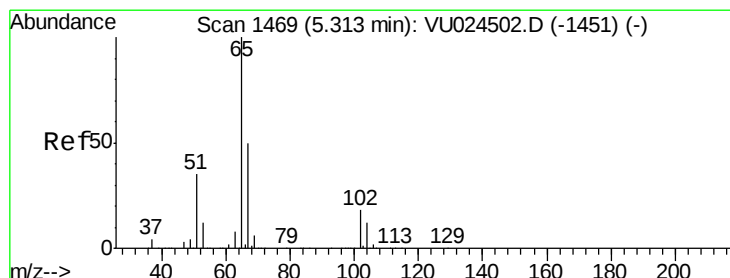
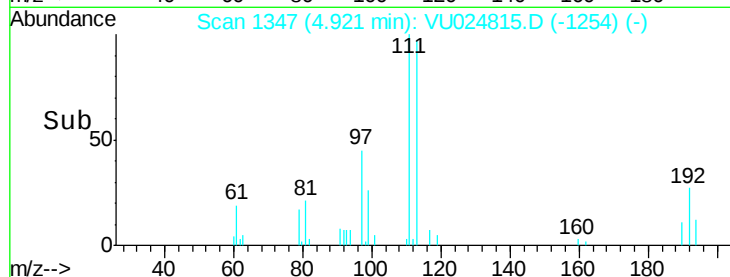
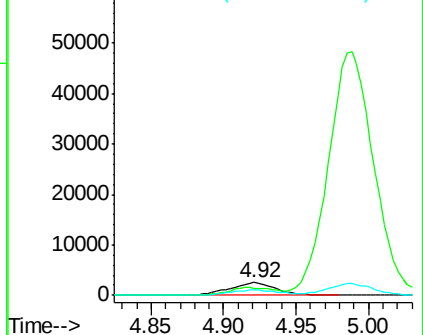
61 43.3 39.4 59.0



Abundance Ion 96.90 (96.60 to 97.60): VU024815.D (-1254) (-)

Ion 98.90 (98.60 to 99.60): VU024815.D (-1254) (-)

Ion 60.90 (60.60 to 61.60): VU024815.D (-1254) (-)



#33

1,2-Dichloroethane-d4

Concen: 43.511 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024815.D

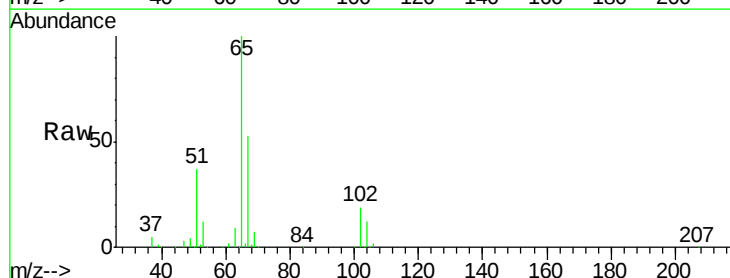
Acq: 21 Jun 2018 16:53

Tgt Ion: 65 Resp: 137648

Ion Ratio Lower Upper

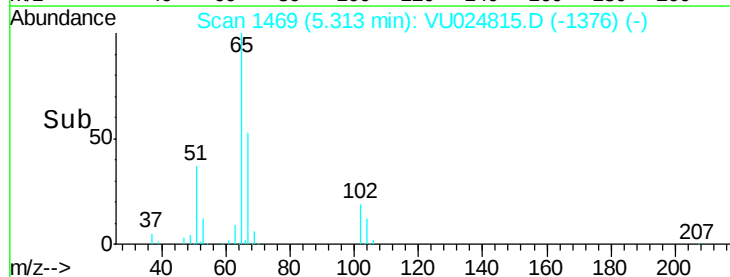
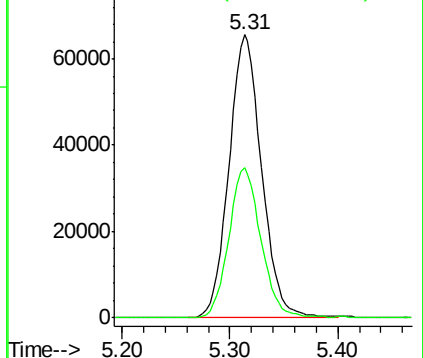
65 100

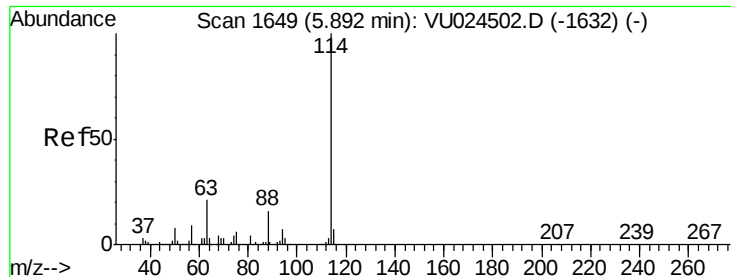
67 52.0 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU024815.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU024815.D (-1376) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

S39-0184

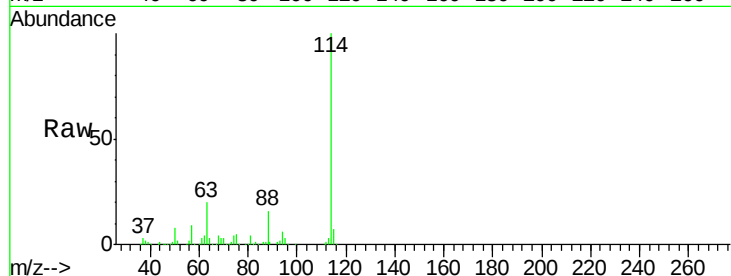
Tot Ion:114 Resp: 295365

Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.4

88 15.7 0.0 31.0



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

5.89

200000

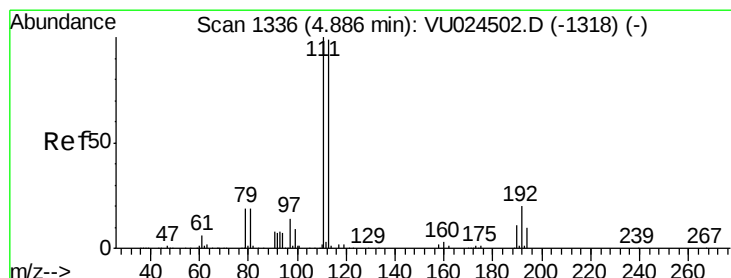
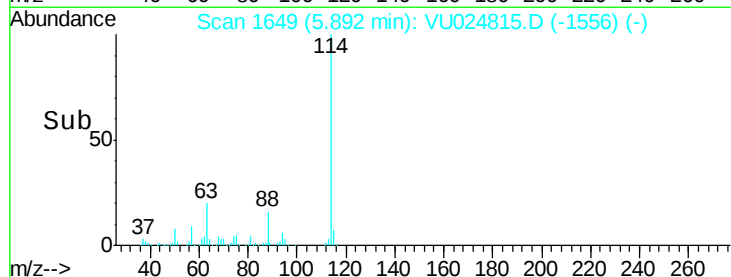
150000

100000

50000

0

Time-->



#35

Dibromofluoromethane

Concen: 47.086 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

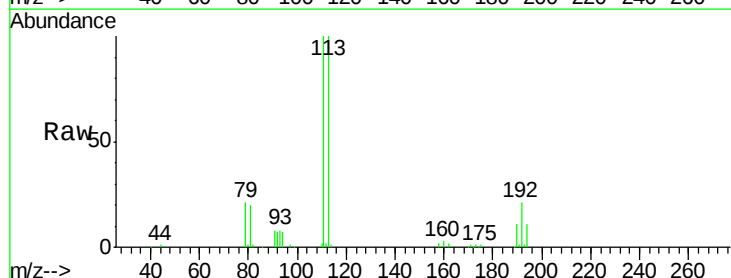
Tgt Ion:113 Resp: 115423

Ion Ratio Lower Upper

113 100

111 100.0 82.2 123.4

192 21.8 16.2 24.4



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

4.89

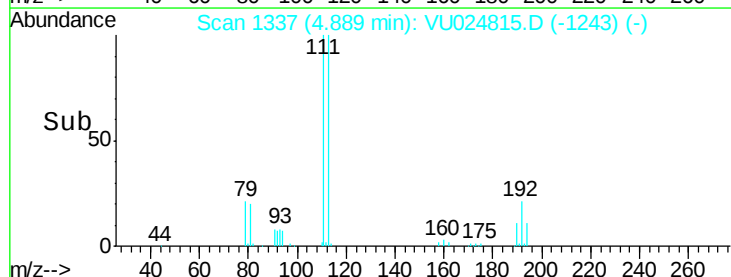
60000

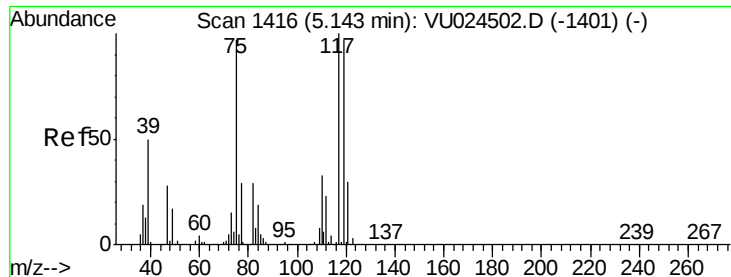
40000

20000

0

Time-->





#36

1,1-Dichloropropene

Concen: 4.064 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

S39-0184

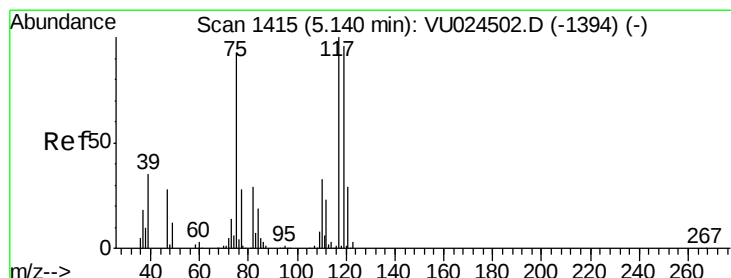
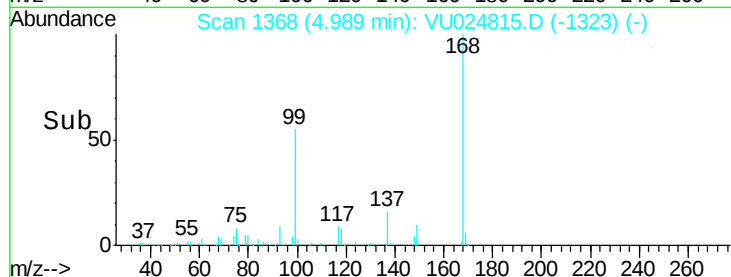
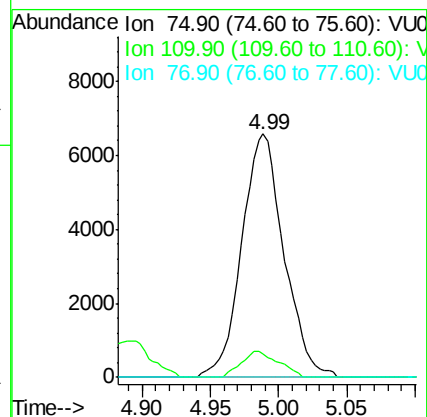
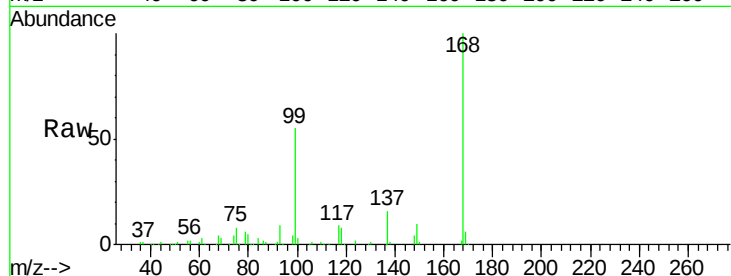
Tot Ion: 75 Resp: 14105

Ion Ratio Lower Upper

75 100

110 9.5 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 4.796 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

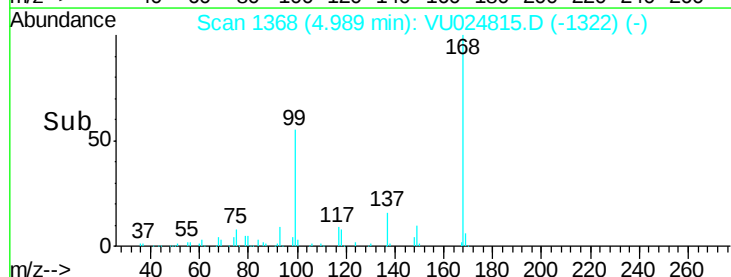
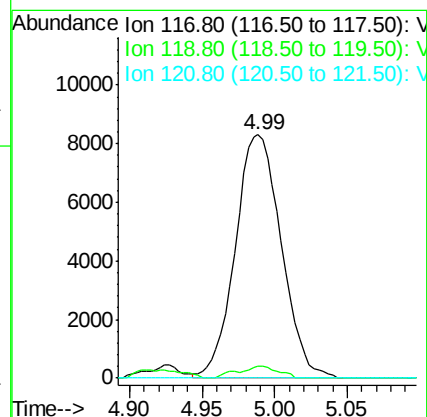
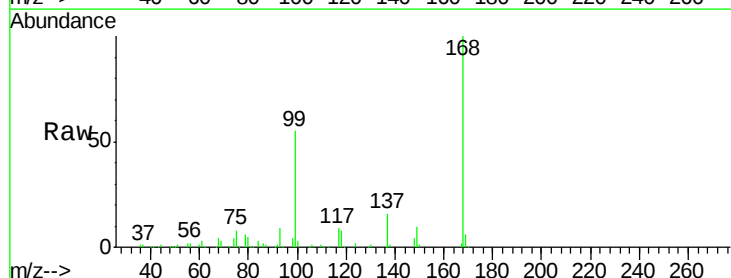
Tgt Ion: 117 Resp: 18306

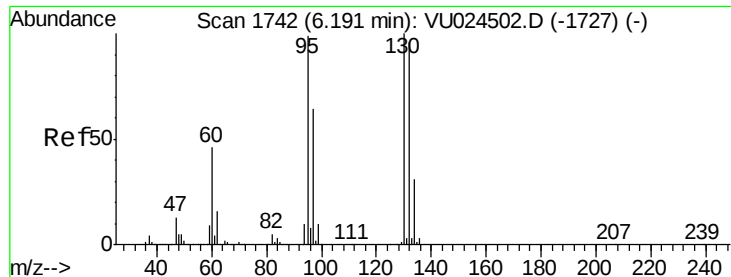
Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

121 0.0 23.7 35.5#





#44

Trichloroethene

Concen: 0.958 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

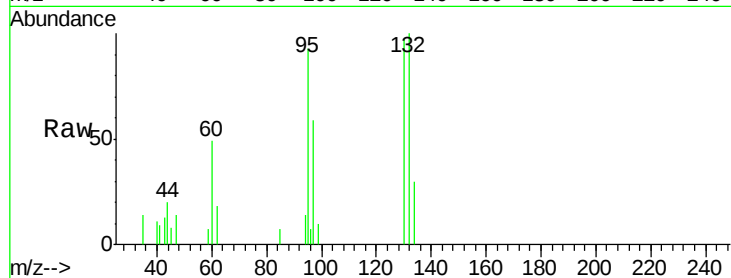
S39-0184

Tot Ion:130 Resp: 2696

Ion Ratio Lower Upper

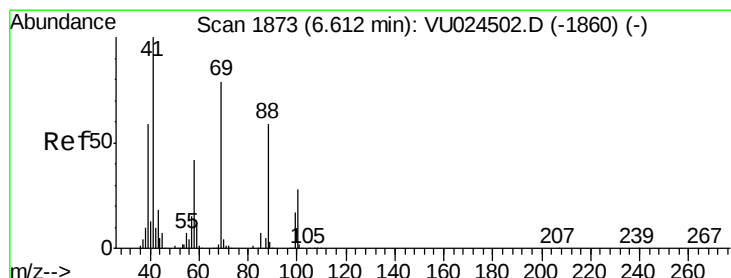
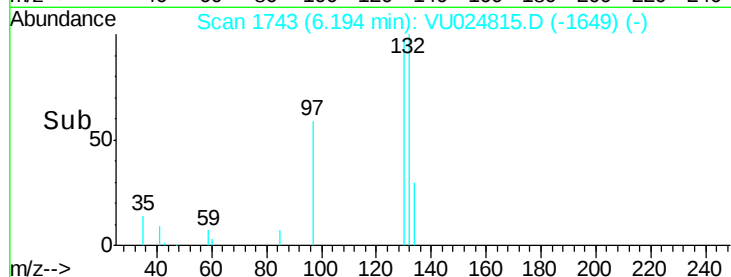
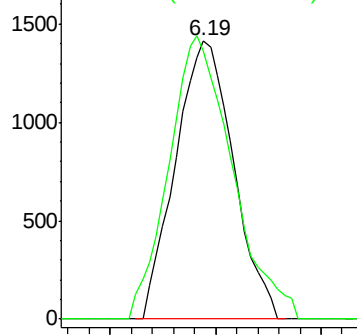
130 100

95 87.5 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



#49

1,4-Dioxane

Concen: 3.951 ug/l

RT: 6.61 min Scan# 1873

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

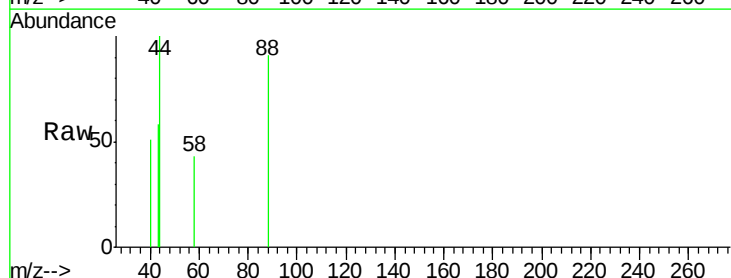
Tgt Ion: 88 Resp: 246

Ion Ratio Lower Upper

88 100

43 87.4 28.6 42.8#

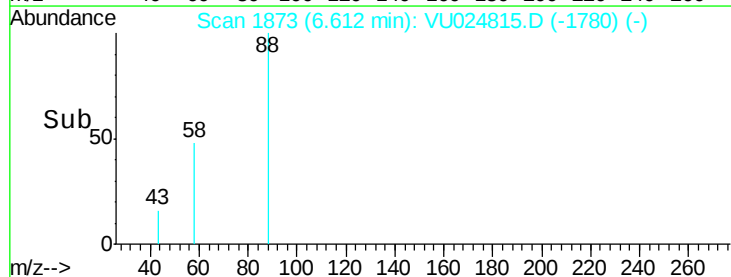
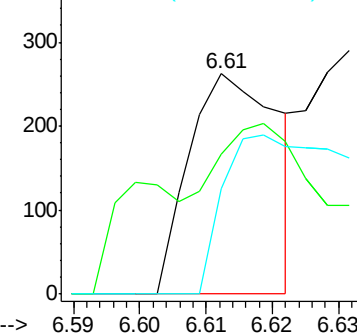
58 118.3 58.2 87.4#

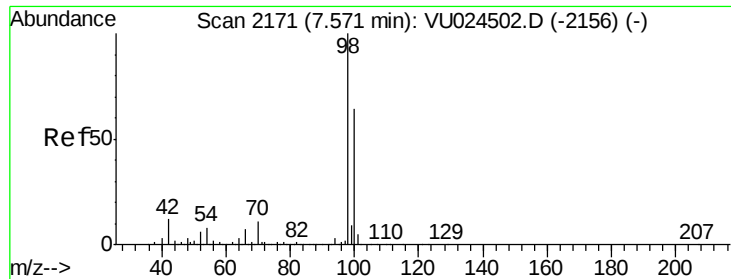


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

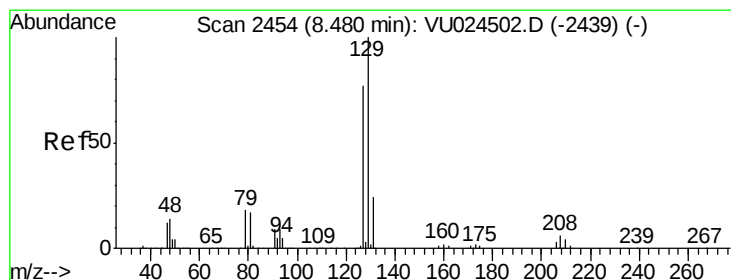
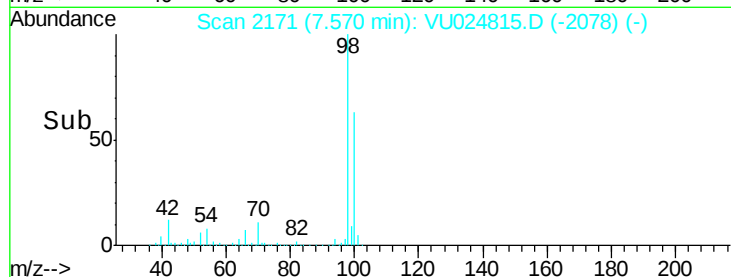
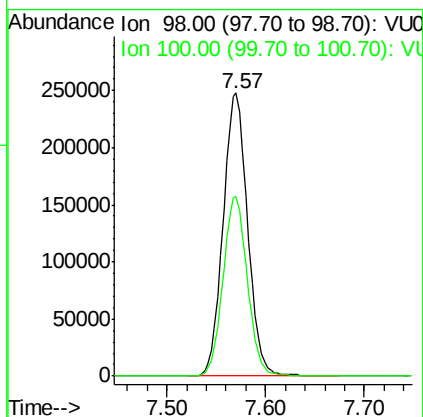
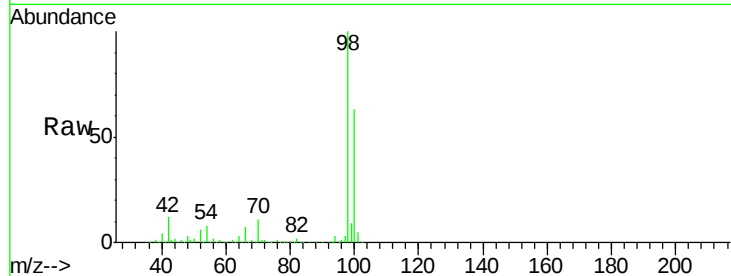




#50
Toluene-d8
Concen: 48.409 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024815.D
Acq: 21 Jun 2018 16:53

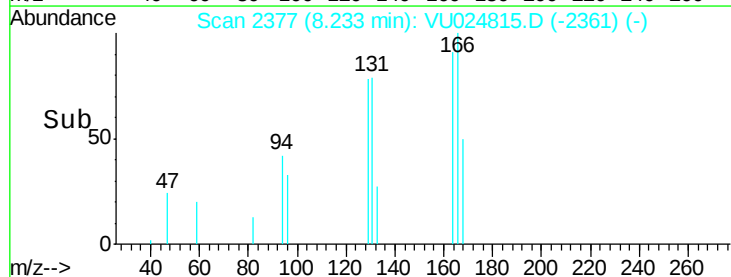
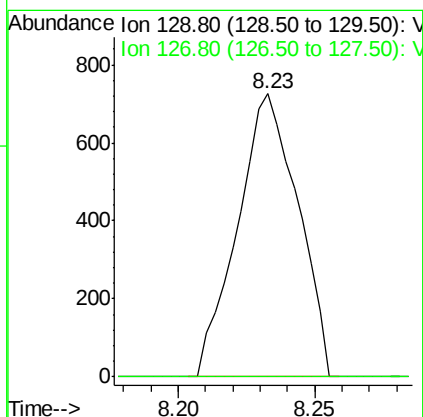
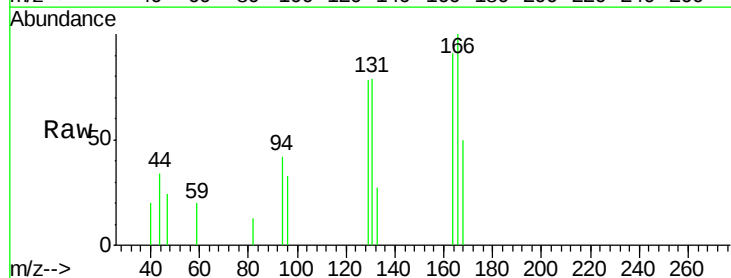
Instrument :
MSVOA_U
ClientSampleId :
S39-0184

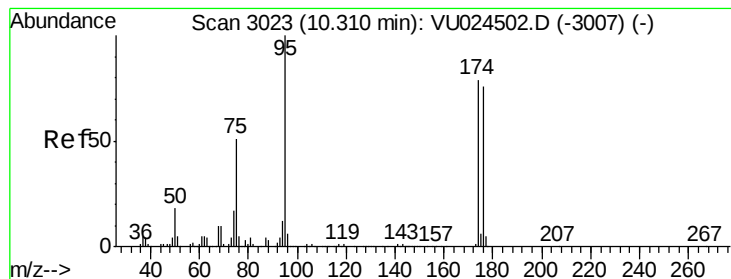
Tot Ion: 98 Resp: 432839
Ion Ratio Lower Upper
98 100
100 63.0 51.1 76.7



#60
Dibromochloromethane
Concen: 0.347 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU024815.D
Acq: 21 Jun 2018 16:53

Tgt Ion: 129 Resp: 1118
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 44.373 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

S39-0184

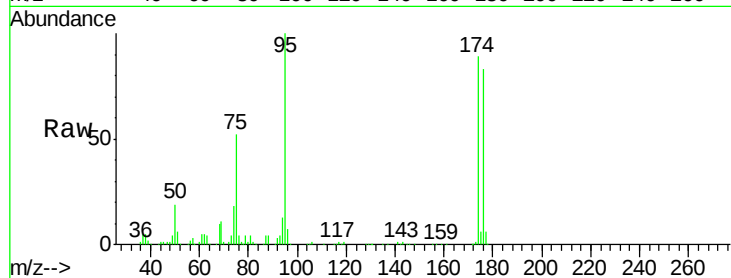
Tot Ion: 95 Resp: 157526

Ion Ratio Lower Upper

95 100

174 87.2 0.0 165.8

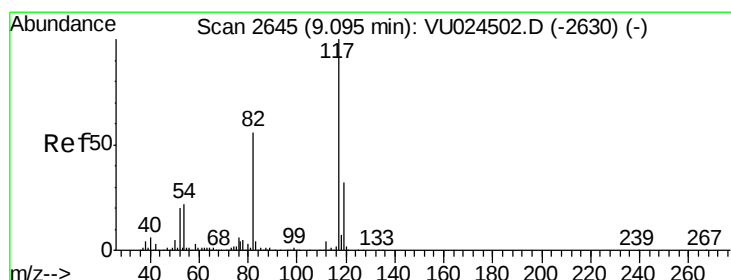
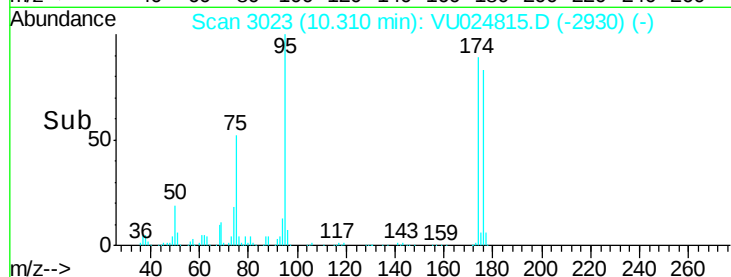
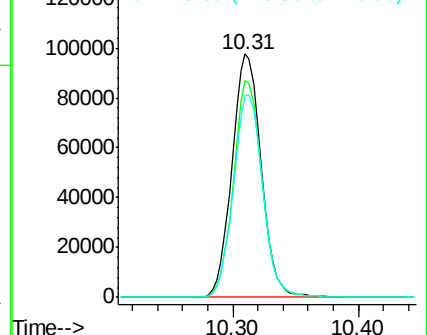
176 83.9 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

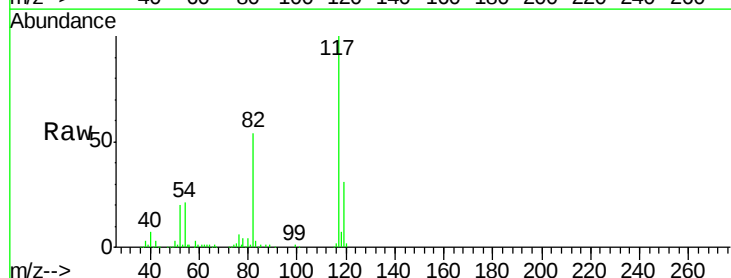
Tgt Ion: 117 Resp: 279437

Ion Ratio Lower Upper

117 100

82 54.1 44.3 66.5

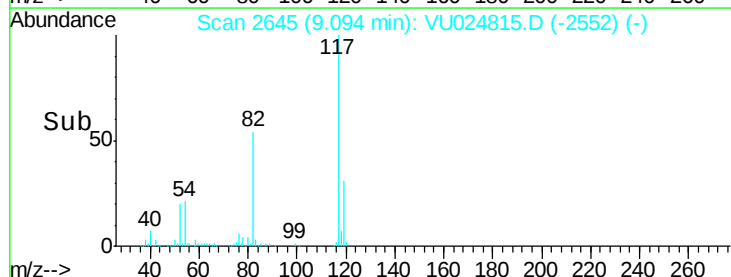
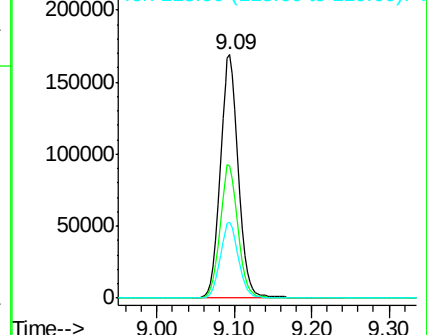
119 31.2 25.4 38.2

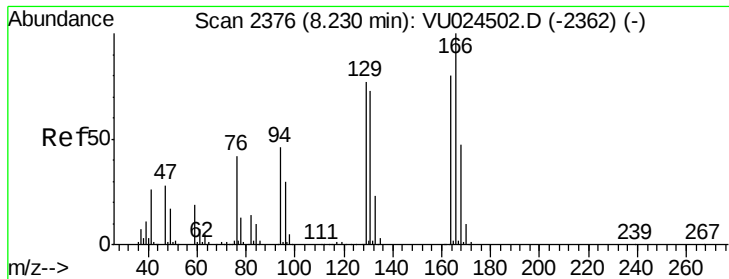


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0





#64

Tetrachloroethene

Concen: 0.456 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

S39-0184

Tot Ion:164 Resp: 1212

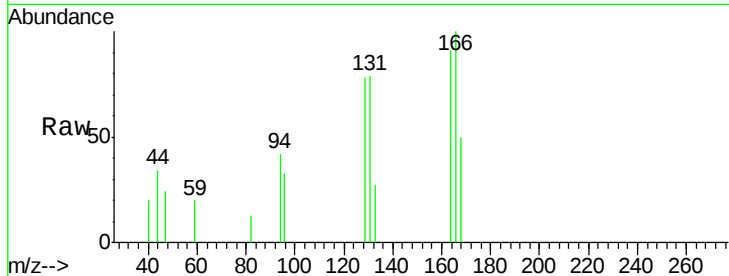
Ion Ratio Lower Upper

164 100

166 109.9 101.7 152.5

129 85.6 76.9 115.3

131 86.3 74.9 112.3

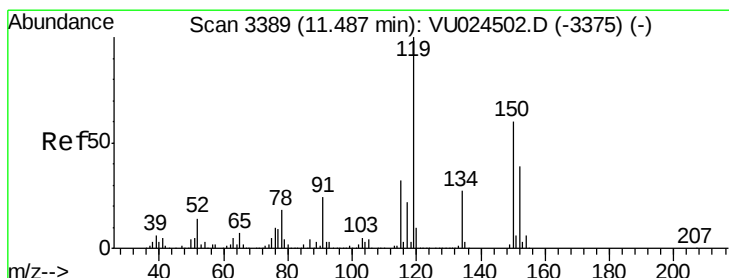
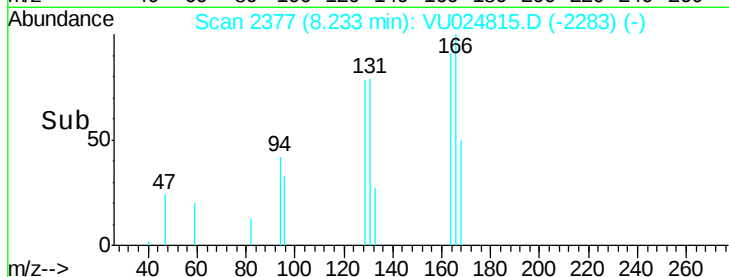
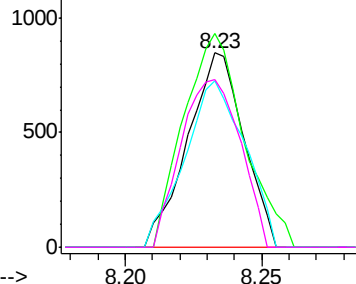


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

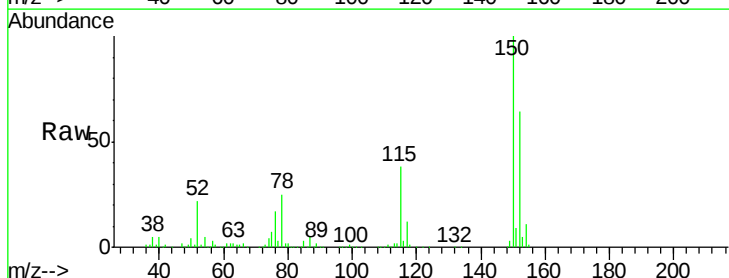
Tgt Ion:152 Resp: 146385

Ion Ratio Lower Upper

152 100

115 58.0 43.0 129.0

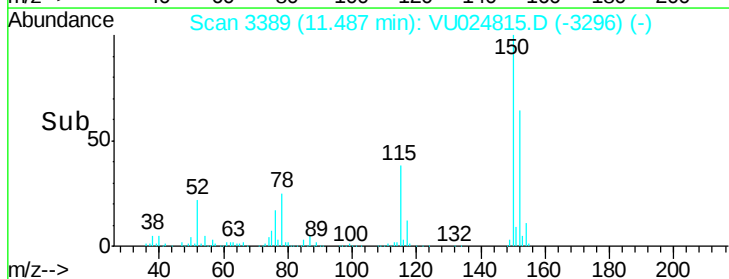
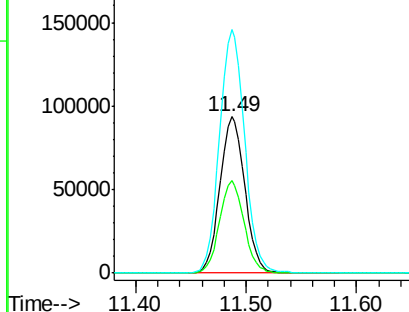
150 157.4 0.0 354.0

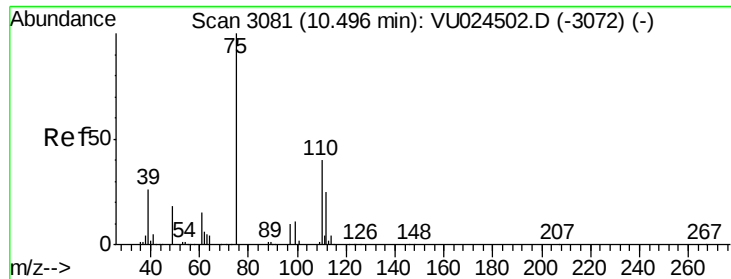


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.281 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Instrument :

MSVOA_U

ClientSampleId :

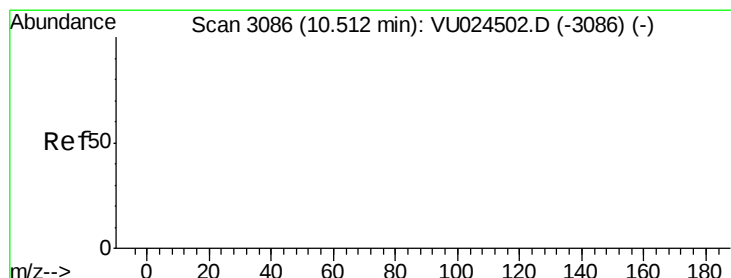
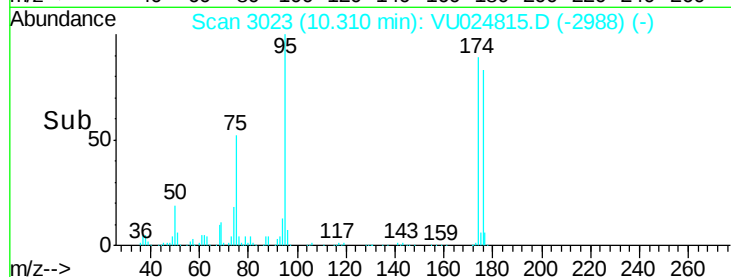
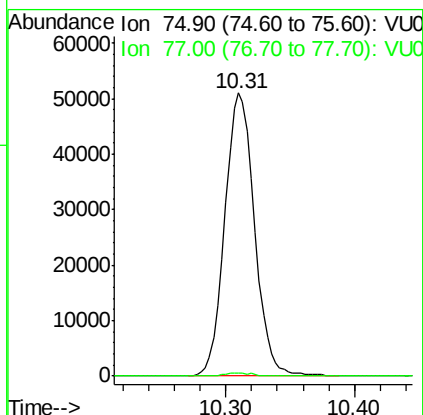
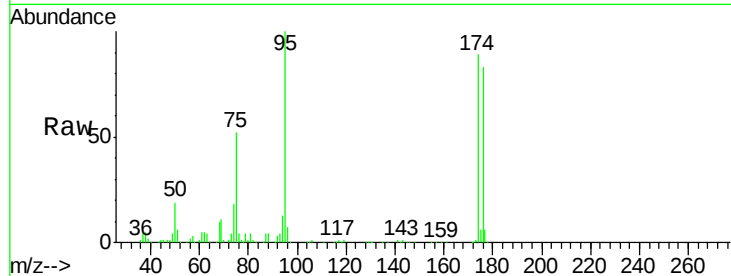
S39-0184

Tot Ion: 75 Resp: 81478

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.511 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024815.D

Acq: 21 Jun 2018 16:53

Tgt Ion: 75 Resp: 81478

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

