

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061818\
 Data File : VU024721.D
 Acq On : 19 Jun 2018 04:20
 Operator : MD/SY
 Sample : J3535-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0448-180613

Quant Time: Jun 19 05:21:13 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	190401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	299636	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	278624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	149966	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	134124	43.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.30%	
35) Dibromofluoromethane	4.89	113	118251	47.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.10%	
50) Toluene-d8	7.57	98	437906	48.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.56%	
62) 4-Bromofluorobenzene	10.31	95	156175	43.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.72%	

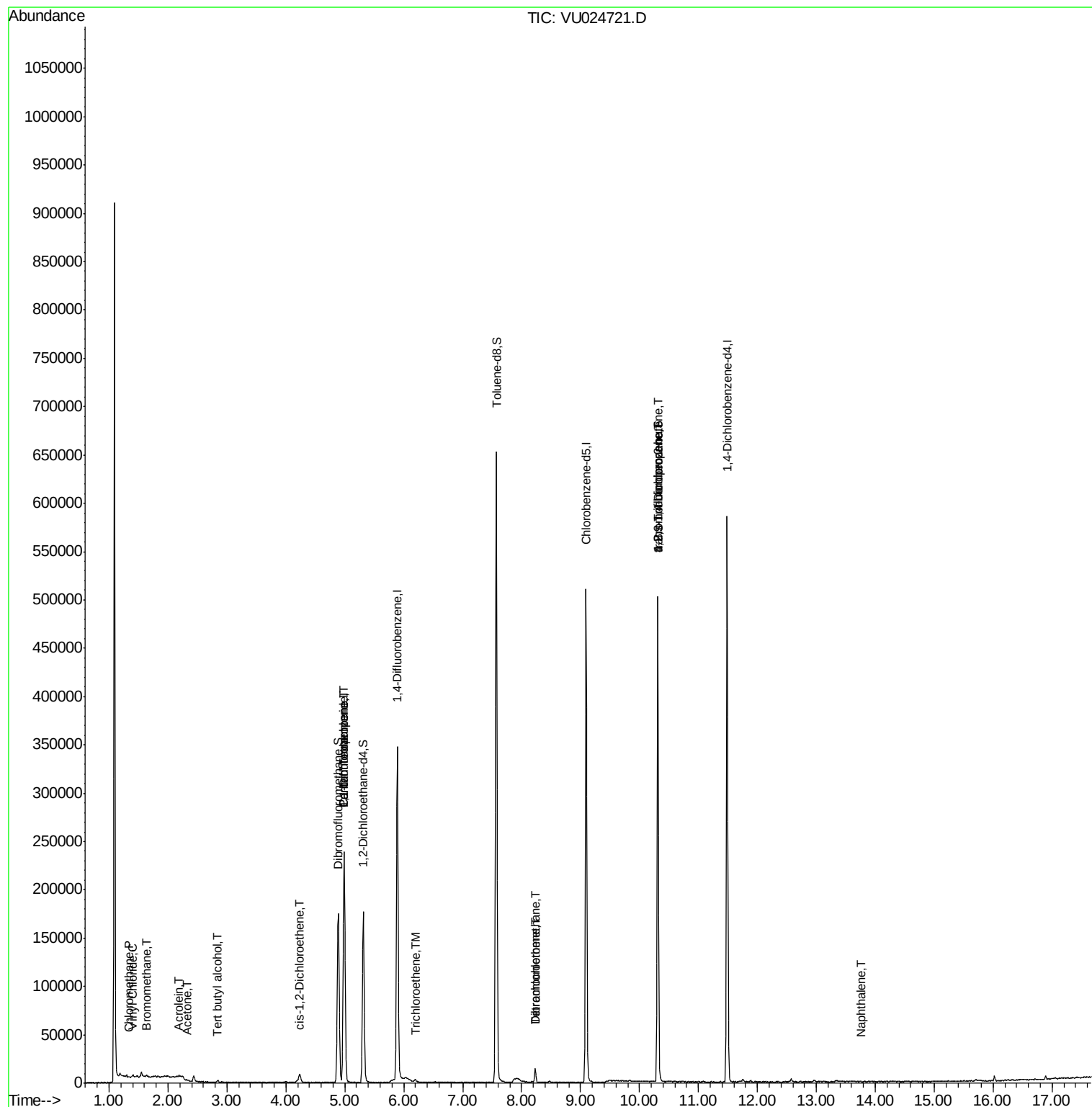
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	615	0.253	ug/l	90
4) Vinyl Chloride	1.40	62	1119	0.446	ug/l	99
5) Bromomethane	1.64	94	592	0.488	ug/l	91
6) Chloroethane	1.71	64	117	Below Cal	#	43
11) Tert butyl alcohol	2.82	59	280	0.370	ug/l #	35
13) Acrolein	2.20	56	84	0.212	ug/l #	1
16) Acetone	2.32	43	973	0.583	ug/l #	86
27) cis-1,2-Dichloroethene	4.24	96	5282	1.924	ug/l	80
31) Cyclohexane	4.99	56	3471	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13455	3.821	ug/l #	49
38) Carbon Tetrachloride	4.99	117	17271	4.461	ug/l #	16
44) Trichloroethene	6.20	130	890	0.312	ug/l	95
60) Dibromochloromethane	8.23	129	3037	0.928	ug/l #	11
64) Tetrachloroethene	8.23	164	3389	1.280	ug/l #	86
76) 1,2,3-Trichloropropane	10.31	75	79700	24.139	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	79700	55.868	ug/l #	100
95) Naphthalene	13.76	128	117	0.690	ug/l #	69

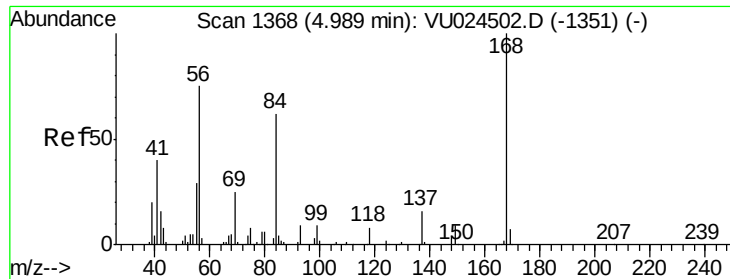
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

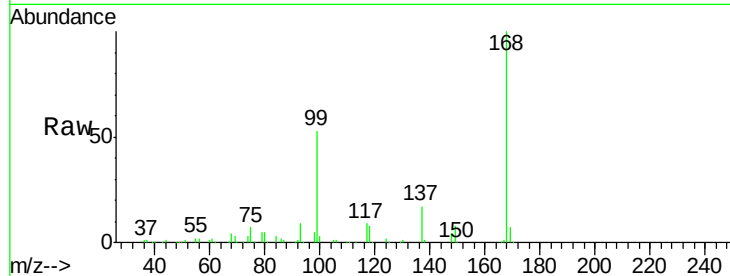
DUP-0448-180613

Tgt Ion:168 Resp: 190401

Ion Ratio Lower Upper

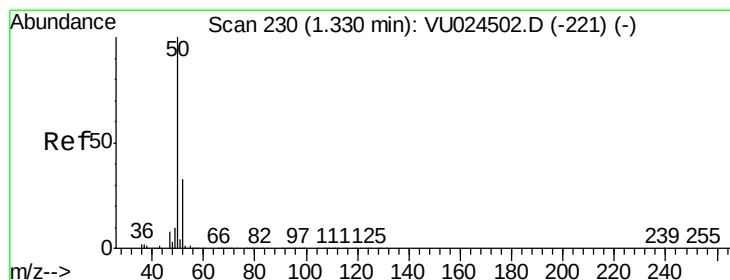
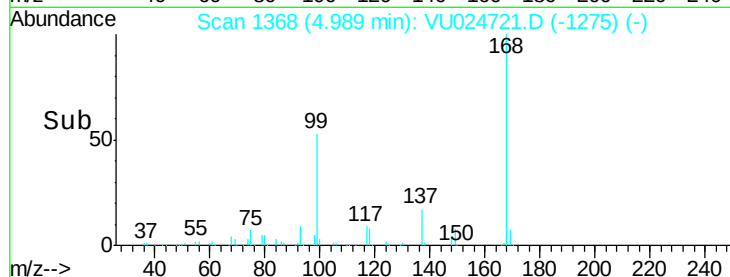
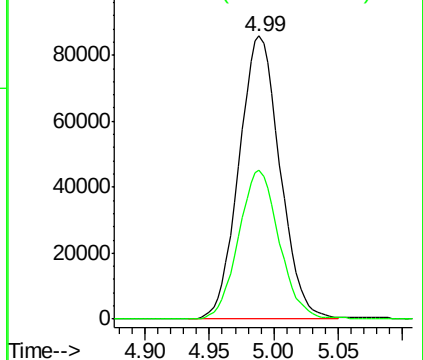
168 100

99 52.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024721.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024721.D (-1275) (-)



#3

Chloromethane

Concen: 0.253 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024721.D

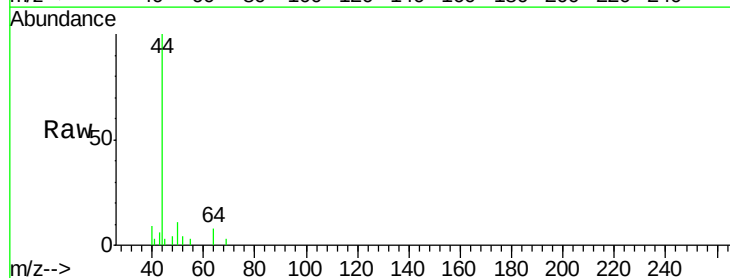
Acq: 19 Jun 2018 04:20

Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

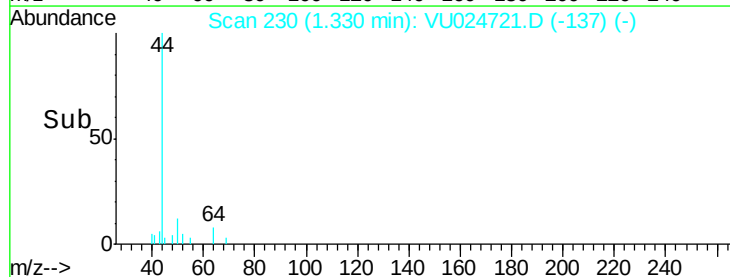
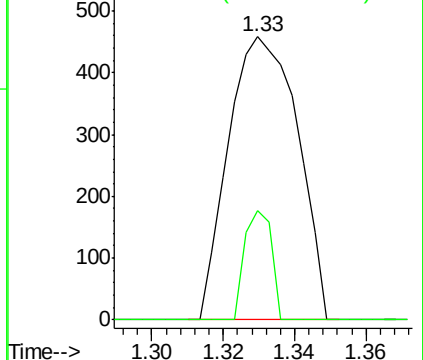
50 100

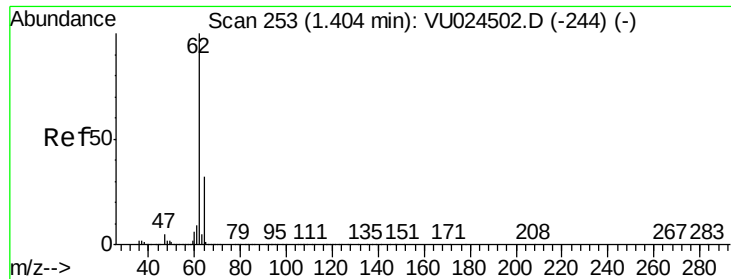
52 38.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024721.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024721.D (-137) (-)





#4

Vinyl Chloride

Concen: 0.446 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

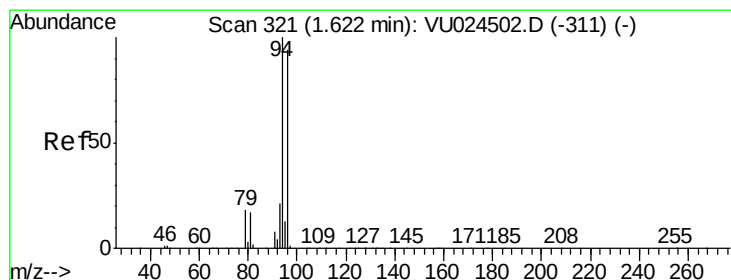
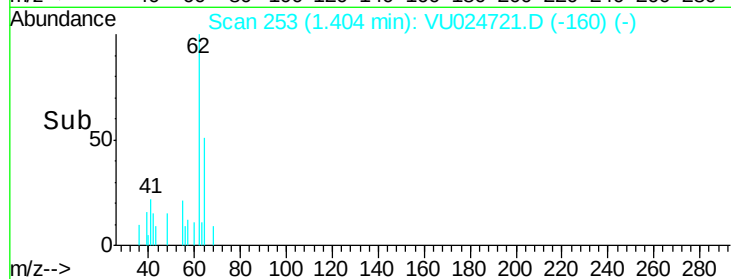
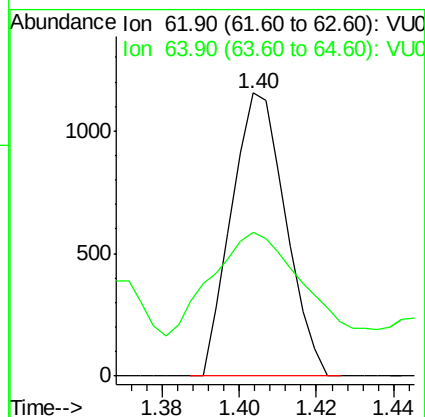
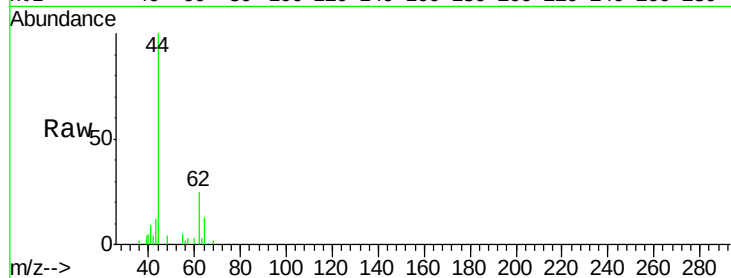
DUP-0448-180613

Tgt Ion: 62 Resp: 1119

Ion Ratio Lower Upper

62 100

64 31.5 24.8 37.2



#5

Bromomethane

Concen: 0.488 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024721.D

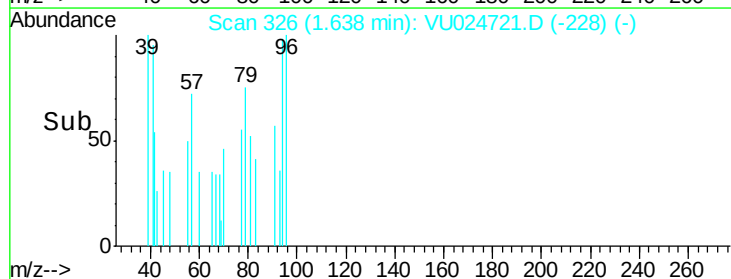
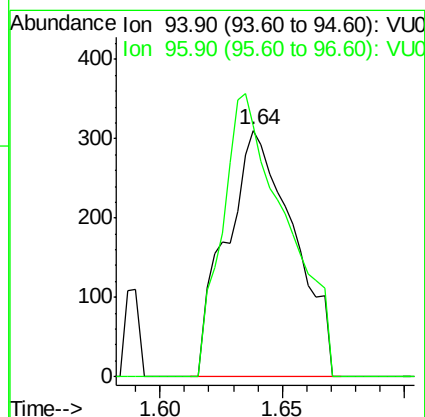
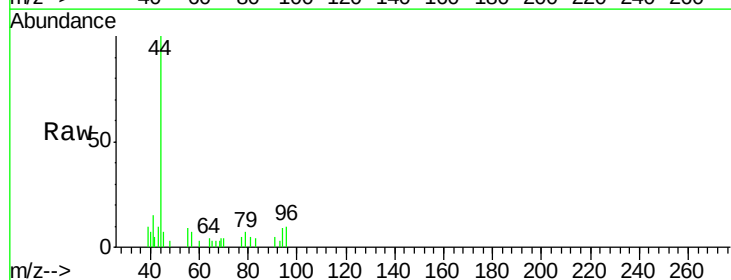
Acq: 19 Jun 2018 04:20

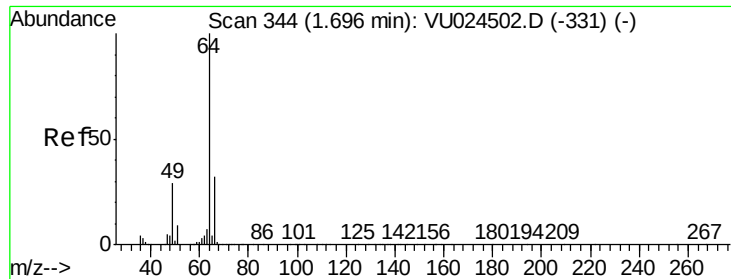
Tgt Ion: 94 Resp: 592

Ion Ratio Lower Upper

94 100

96 101.6 74.5 111.7





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

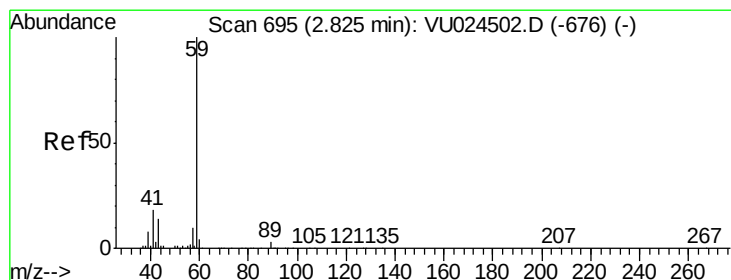
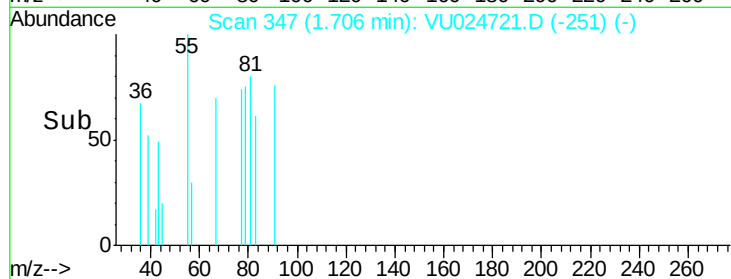
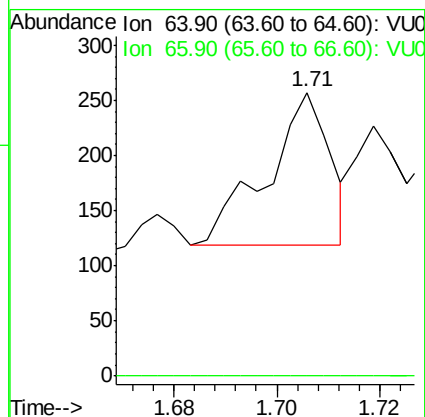
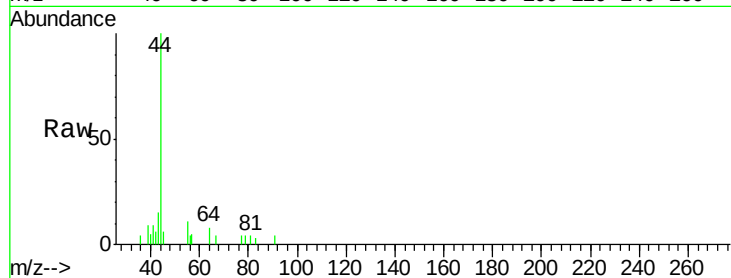
DUP-0448-180613

Tgt Ion: 64 Resp: 117

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#11

Tert butyl alcohol

Concen: 0.370 ug/l

RT: 2.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VU024721.D

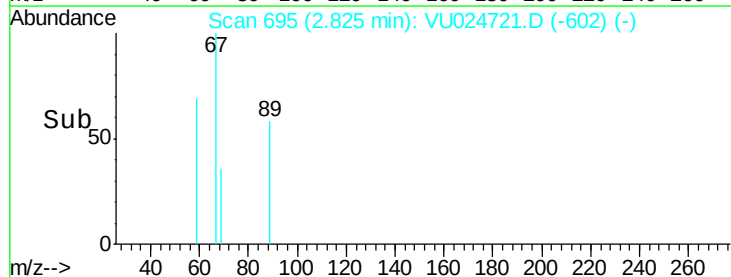
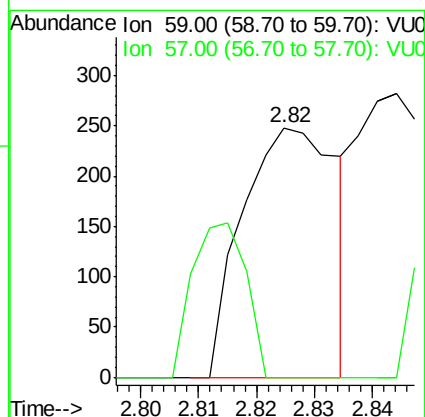
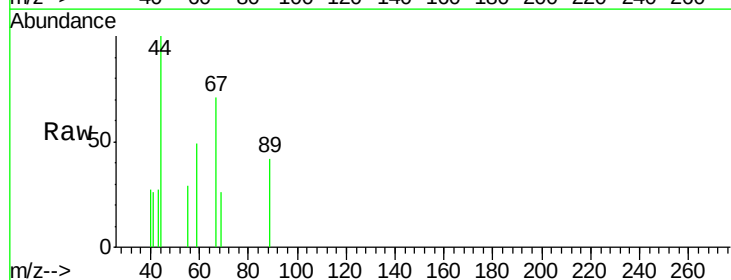
Acq: 19 Jun 2018 04:20

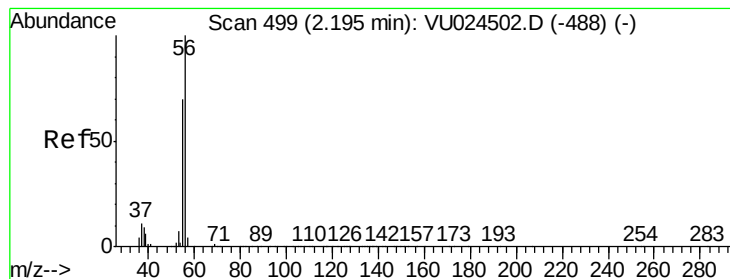
Tgt Ion: 59 Resp: 280

Ion Ratio Lower Upper

59 100

57 35.0 8.5 12.7#





#13

Acrolein

Concen: 0.212 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

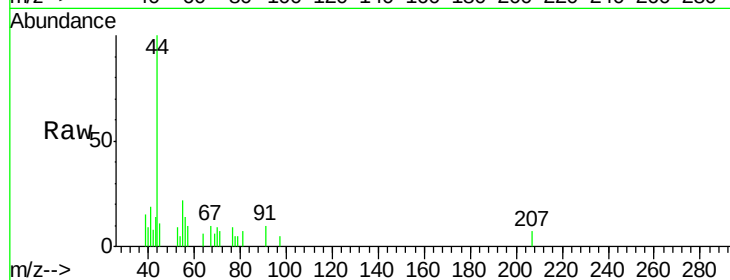
DUP-0448-180613

Tgt Ion: 56 Resp: 84

Ion Ratio Lower Upper

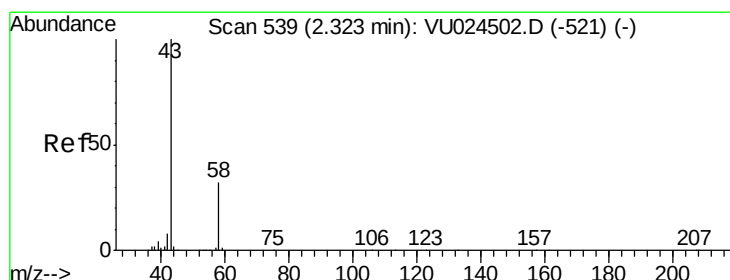
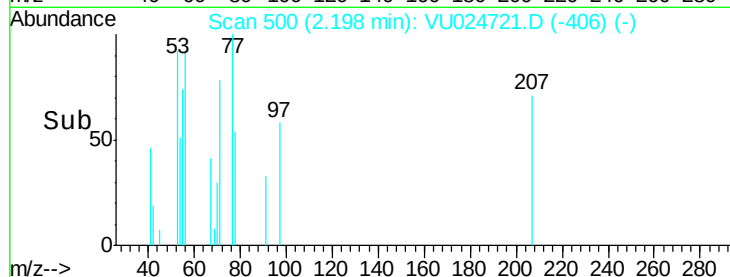
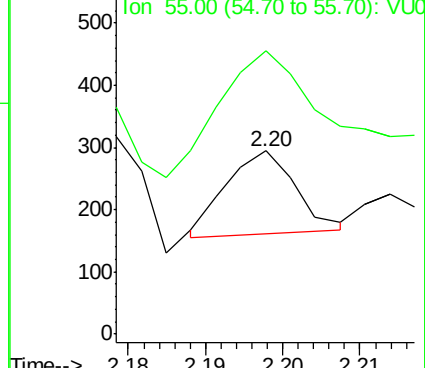
56 100

55 235.7 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 0.583 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024721.D

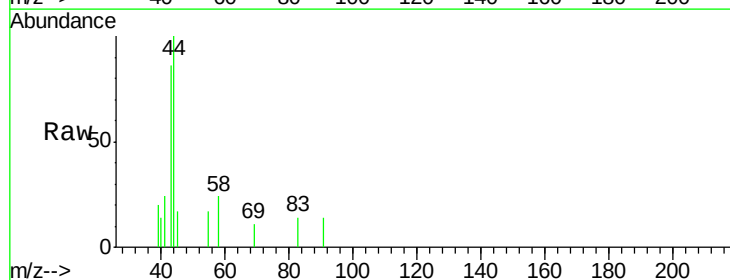
Acq: 19 Jun 2018 04:20

Tgt Ion: 43 Resp: 973

Ion Ratio Lower Upper

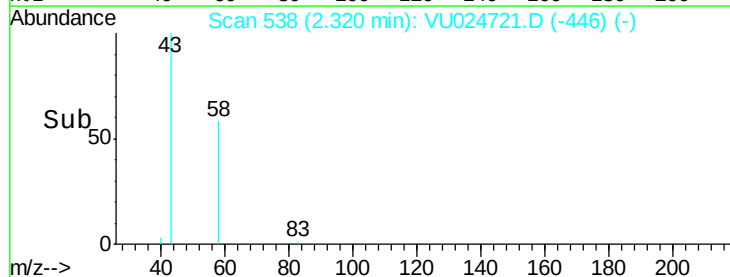
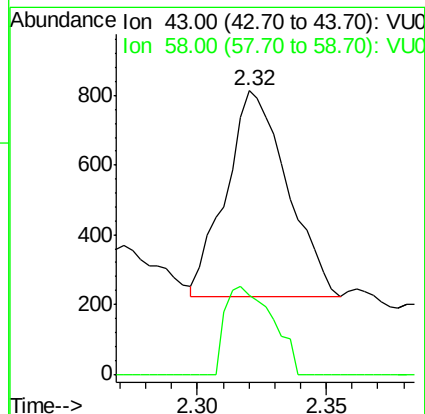
43 100

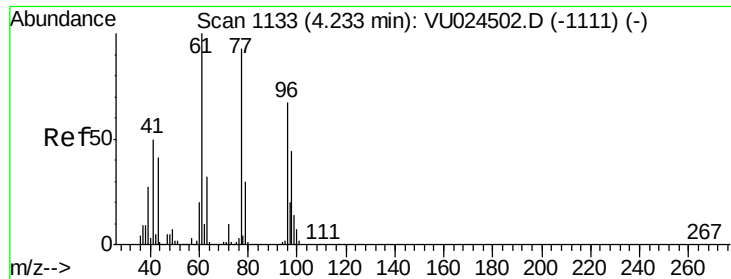
58 38.4 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

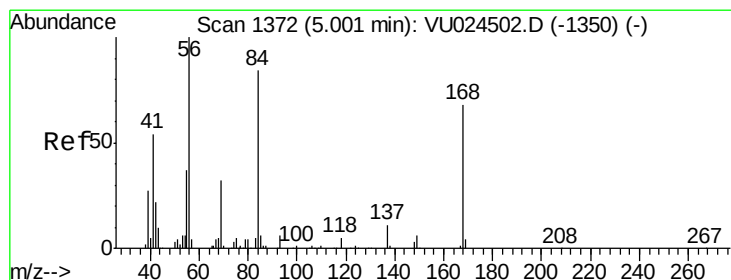
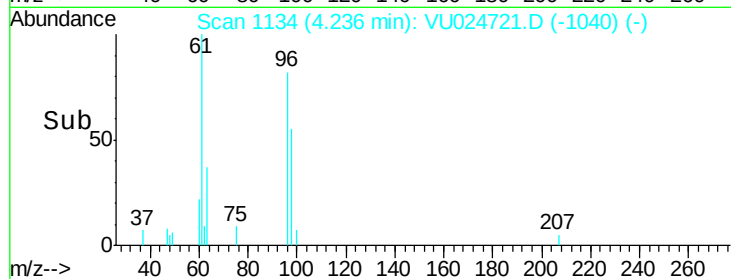
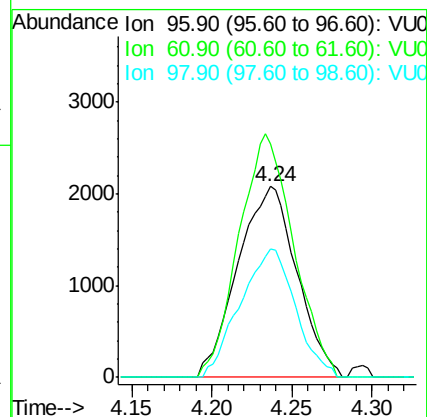
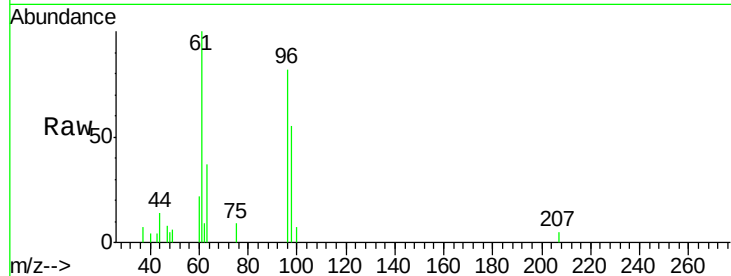




#27
 cis-1,2-Dichloroethene
 Concen: 1.924 ug/l
 RT: 4.24 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VU024721.D
 Acq: 19 Jun 2018 04:20

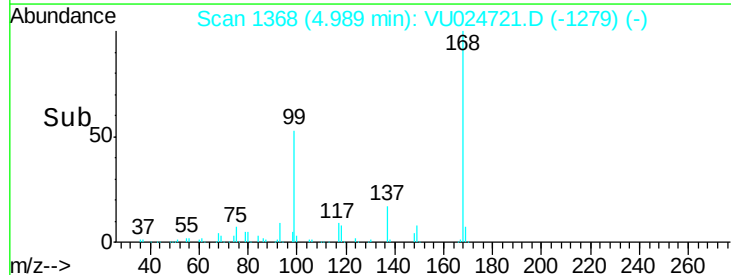
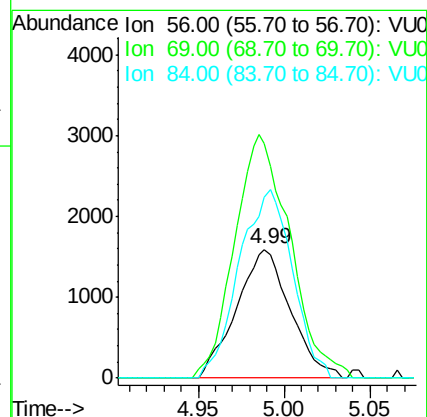
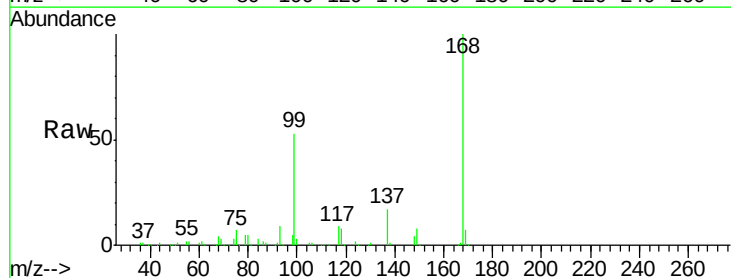
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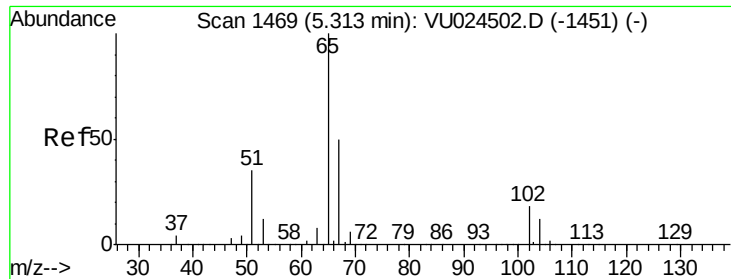
Tgt Ion: 96 Resp: 5282
 Ion Ratio Lower Upper
 96 100
 61 117.7 0.0 306.6
 98 62.7 0.0 128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VU024721.D
 Acq: 19 Jun 2018 04:20

Tgt Ion: 56 Resp: 3471
 Ion Ratio Lower Upper
 56 100
 69 182.3 24.8 37.2#
 84 140.1 65.2 97.8#

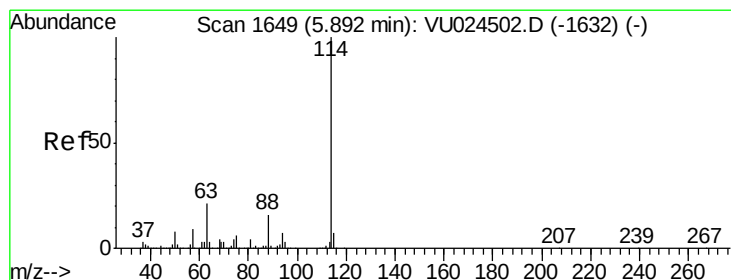
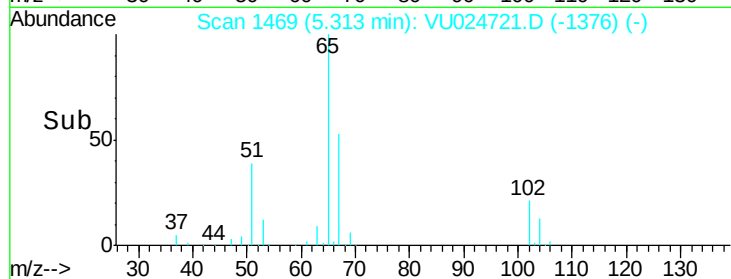
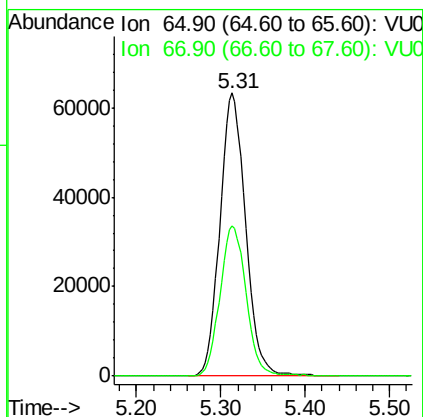
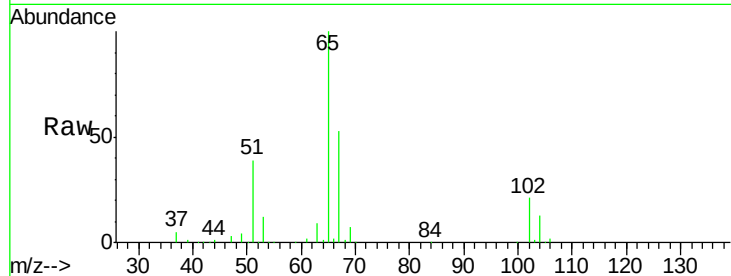




#33
 1,2-Dichloroethane-d4
 Concen: 43.150 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024721.D
 Acq: 19 Jun 2018 04:20

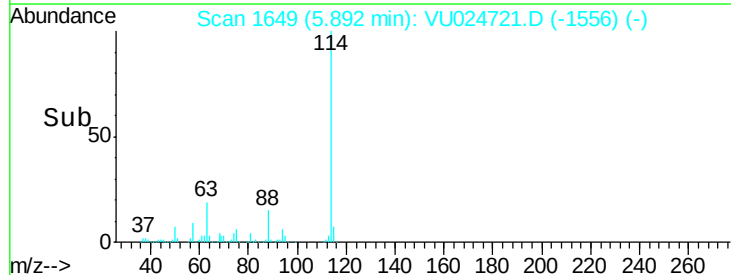
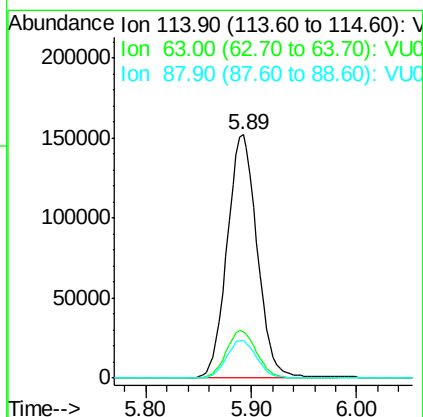
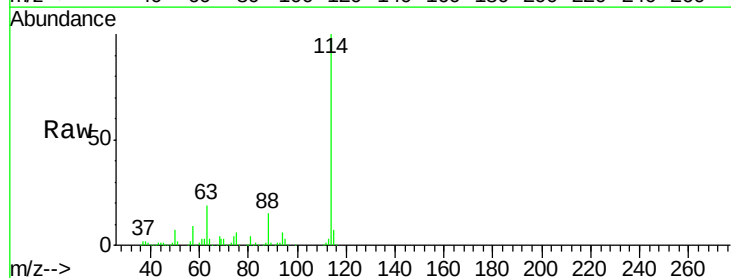
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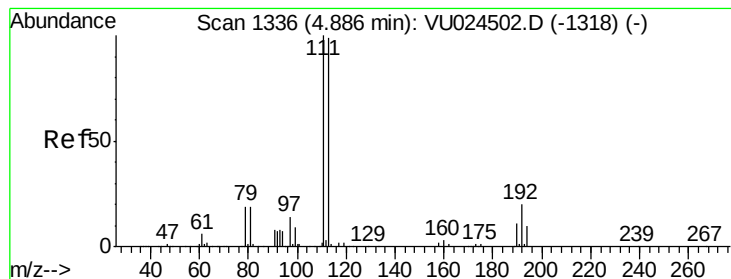
Tgt Ion: 65 Resp: 134124
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024721.D
 Acq: 19 Jun 2018 04:20

Tgt Ion: 114 Resp: 299636
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 45.4
 88 15.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.552 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

DUP-0448-180613

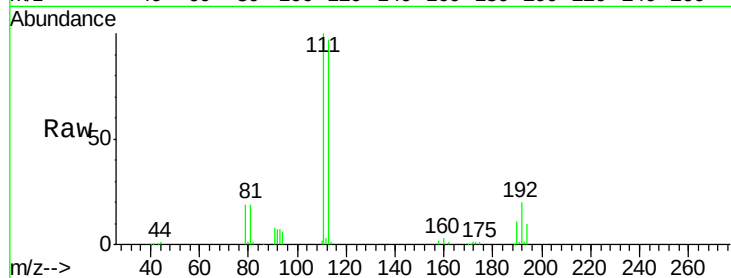
Tgt Ion:113 Resp: 118251

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.4

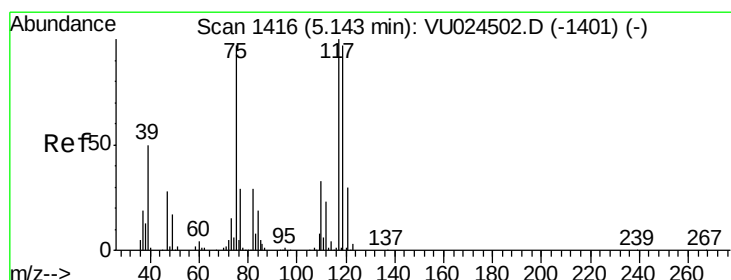
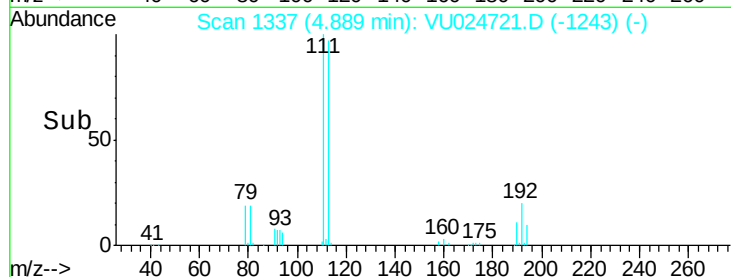
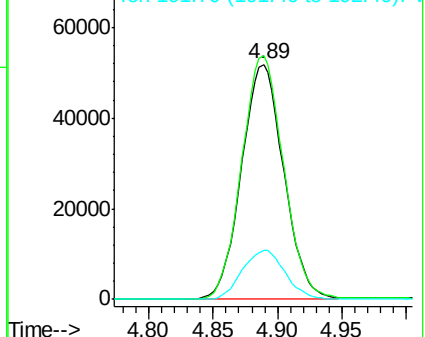
192 21.2 16.2 24.4



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



#36

1,1-Dichloropropene

Concen: 3.821 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

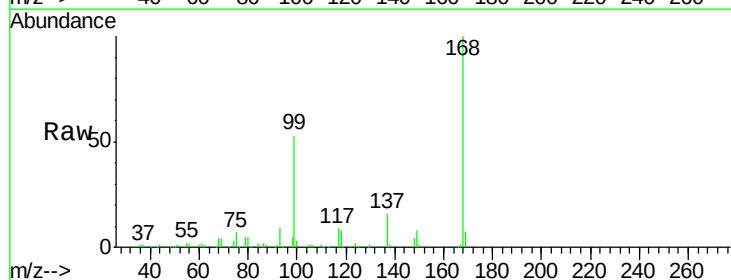
Tgt Ion: 75 Resp: 13455

Ion Ratio Lower Upper

75 100

110 7.5 17.0 50.9#

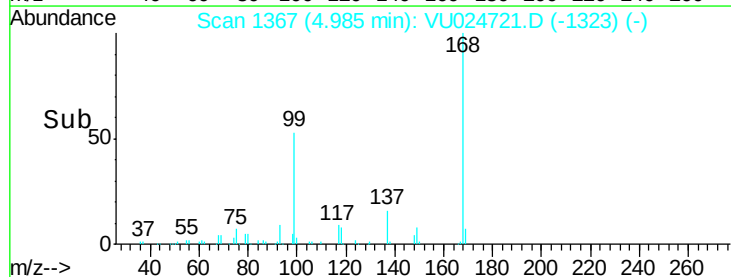
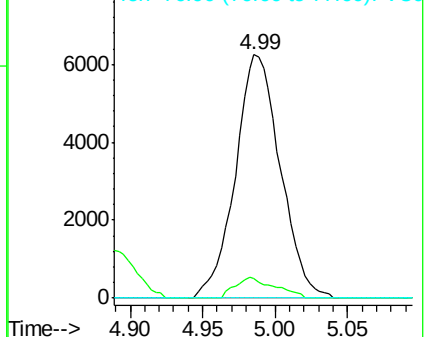
77 0.0 24.2 36.4#

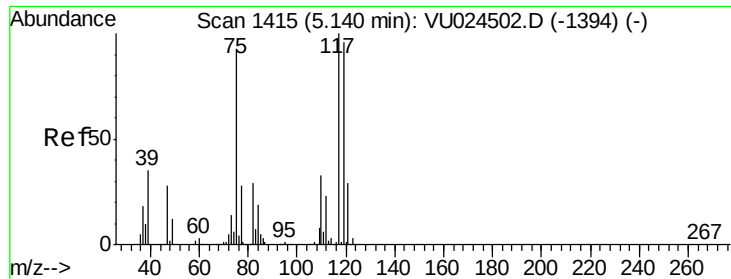


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.461 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

DUP-0448-180613

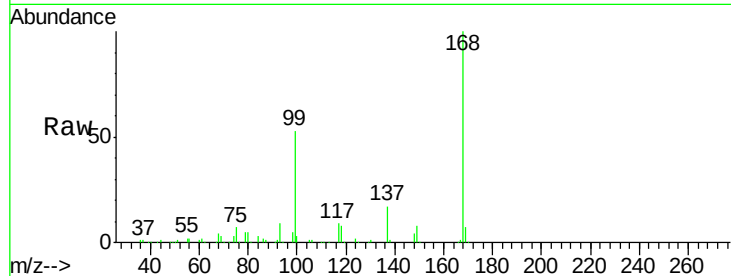
Tgt Ion:117 Resp: 17271

Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

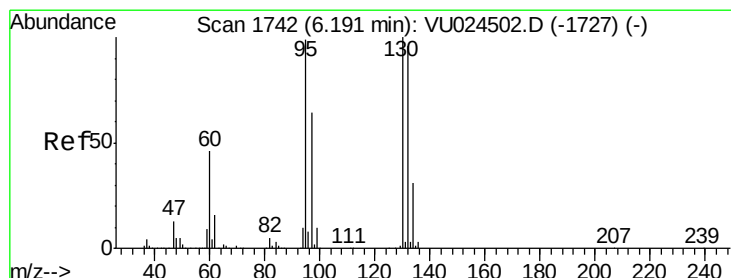
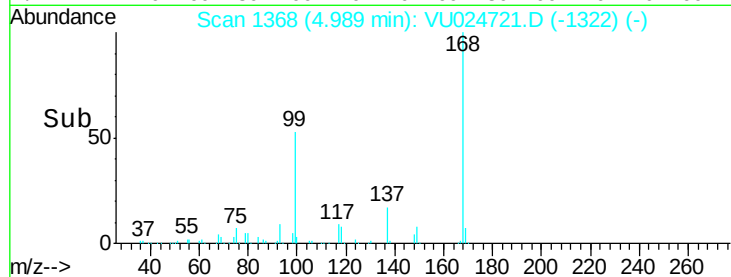
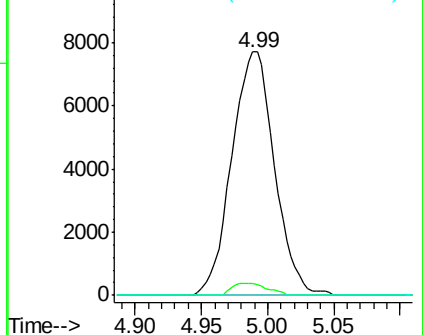
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.312 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU024721.D

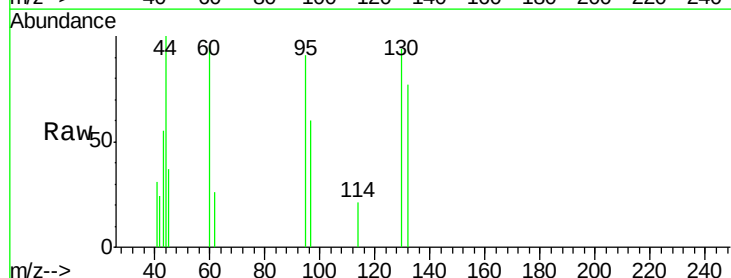
Acq: 19 Jun 2018 04:20

Tgt Ion:130 Resp: 890

Ion Ratio Lower Upper

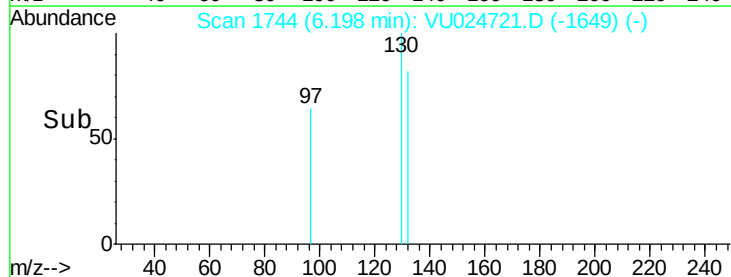
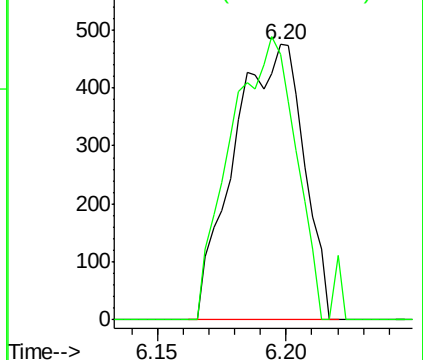
130 100

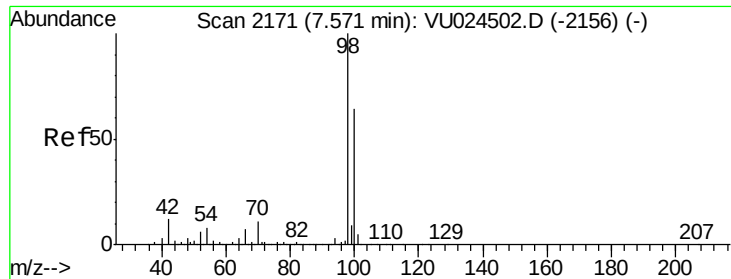
95 96.6 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

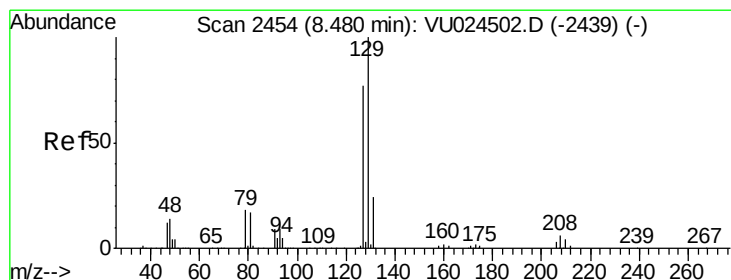
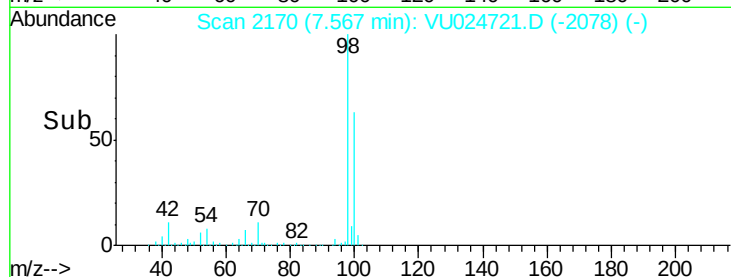
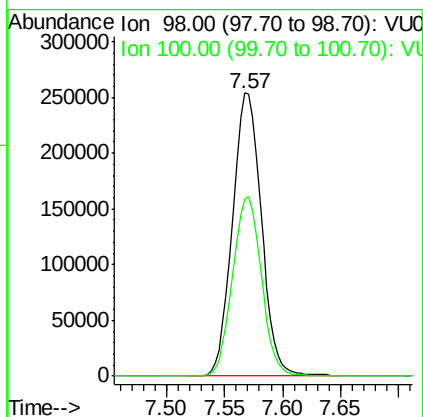
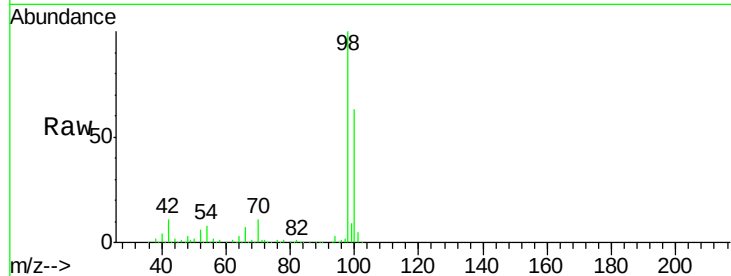




#50
Toluene-d8
Concen: 48.277 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024721.D
Acq: 19 Jun 2018 04:20

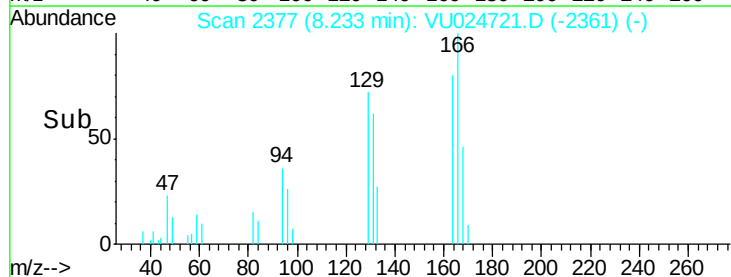
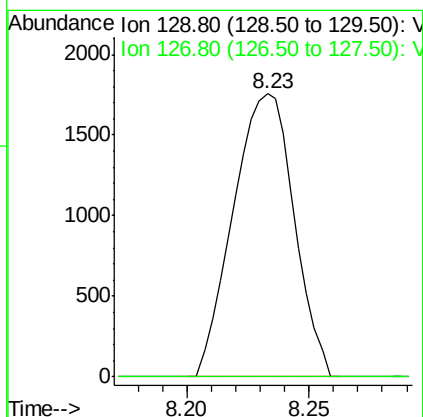
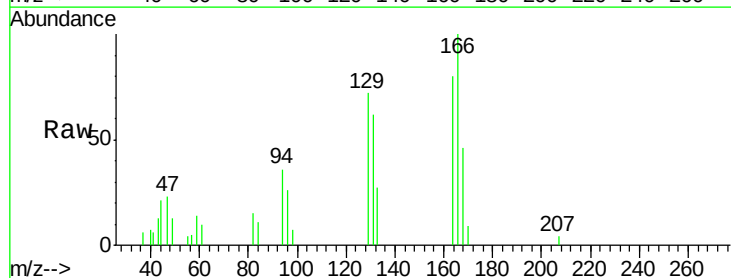
Instrument :
MSVOA_U
ClientSampleId :
DUP-0448-180613

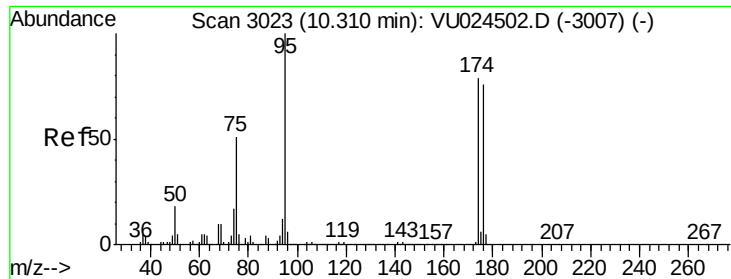
Tgt Ion: 98 Resp: 437906
Ion Ratio Lower Upper
98 100
100 63.4 51.1 76.7



#60
Dibromochloromethane
Concen: 0.928 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU024721.D
Acq: 19 Jun 2018 04:20

Tgt Ion: 129 Resp: 3037
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

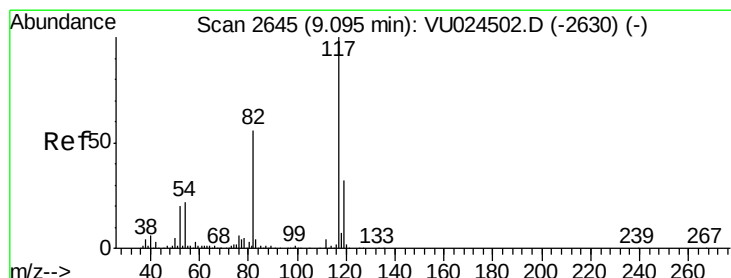
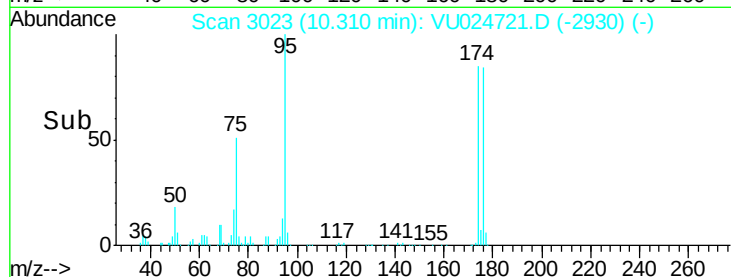
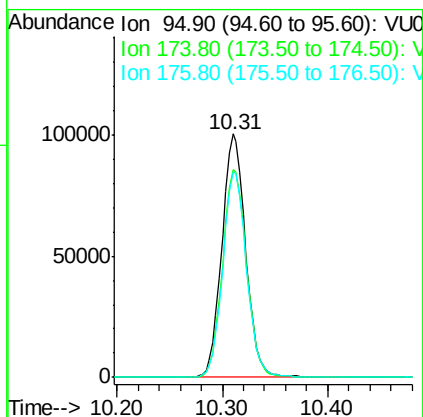
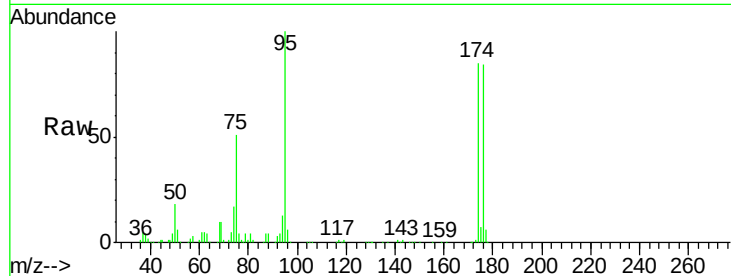




#62
4-Bromofluorobenzene
Concen: 43.365 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024721.D
Acq: 19 Jun 2018 04:20

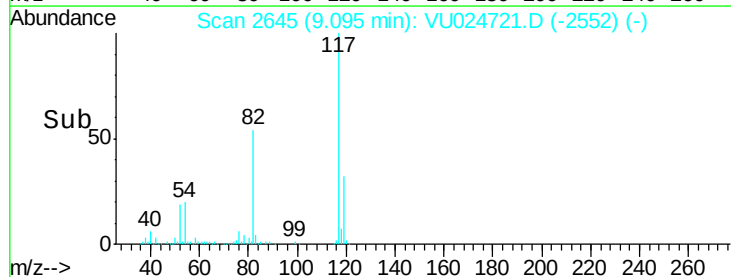
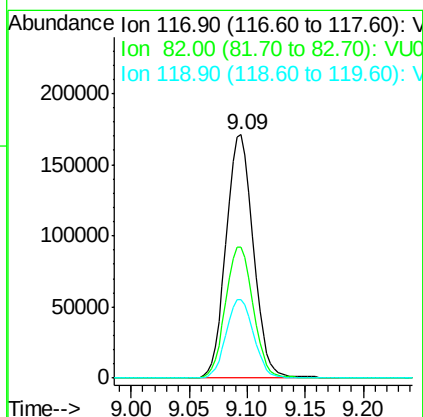
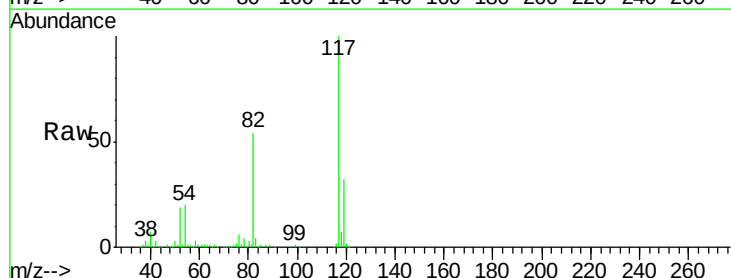
Instrument :
MSVOA_U
ClientSampleId :
DUP-0448-180613

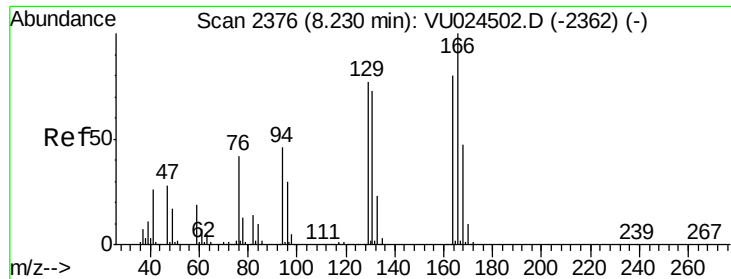
Tgt Ion: 95 Resp: 156175
Ion Ratio Lower Upper
95 100
174 86.8 0.0 165.8
176 84.8 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024721.D
Acq: 19 Jun 2018 04:20

Tgt Ion: 117 Resp: 278624
Ion Ratio Lower Upper
117 100
82 53.9 44.3 66.5
119 32.4 25.4 38.2





#64

Tetrachloroethene

Concen: 1.280 ug/l

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

DUP-0448-180613

Tgt Ion:164 Resp: 3389

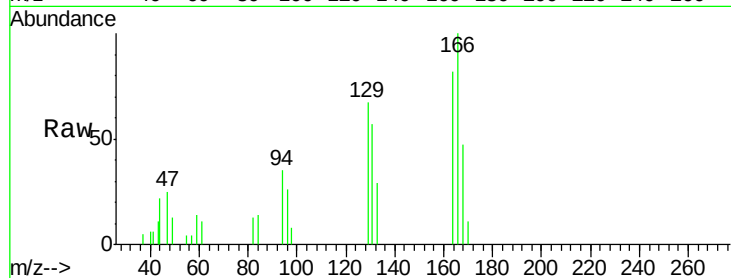
Ion Ratio Lower Upper

164 100

166 121.5 101.7 152.5

129 81.7 76.9 115.3

131 68.7 74.9 112.3#

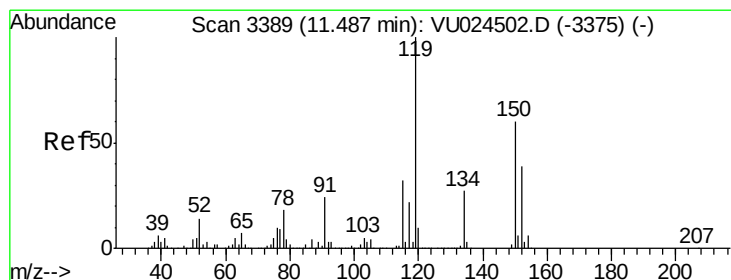
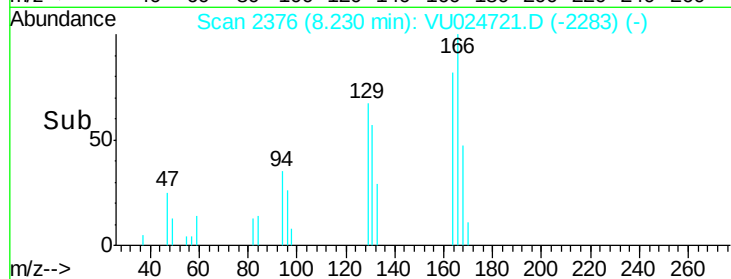
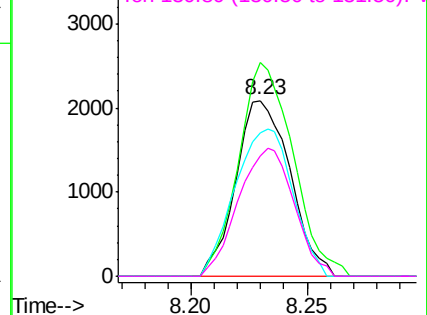


Abundance Ion 163.80 (163.50 to 164.50): V

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: VU024721.D

Acq: 19 Jun 2018 04:20

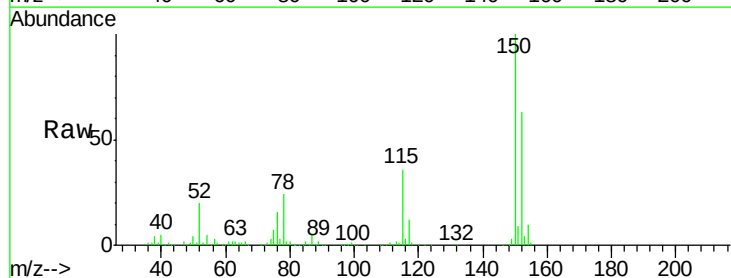
Tgt Ion:152 Resp: 149966

Ion Ratio Lower Upper

152 100

115 56.0 43.0 129.0

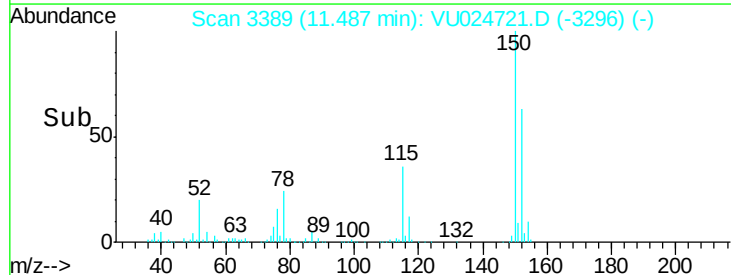
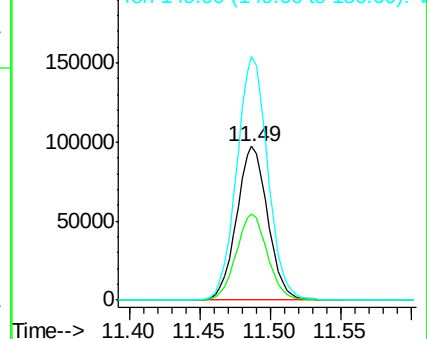
150 158.7 0.0 354.0

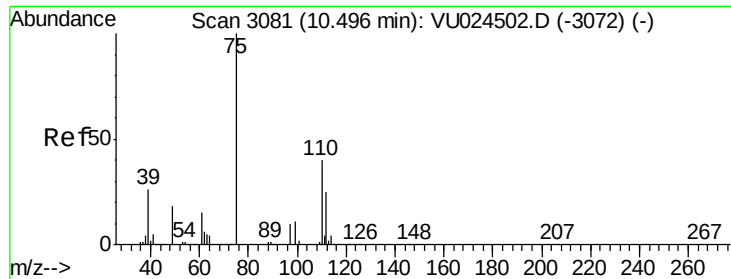


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.139 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

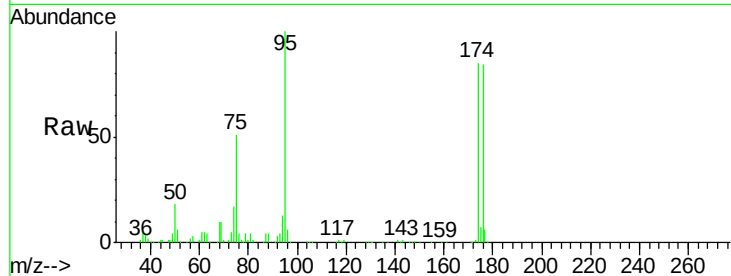
DUP-0448-180613

Tgt Ion: 75 Resp: 79700

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

60000

50000

40000

30000

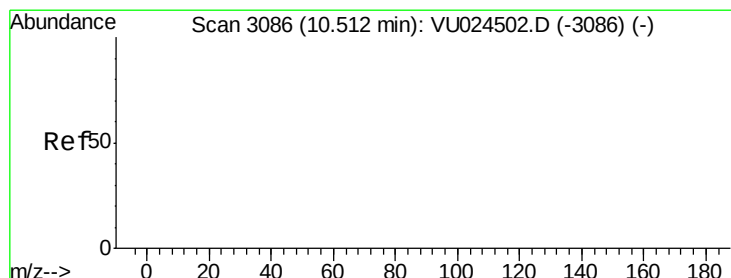
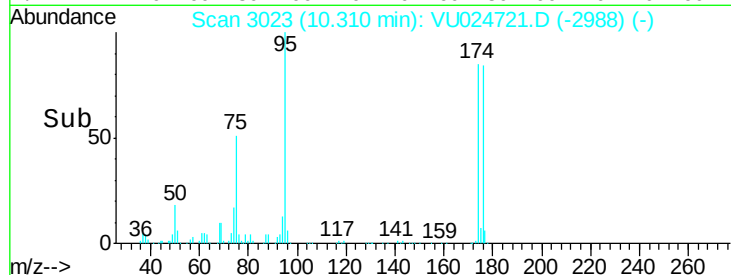
20000

10000

0

10.25 10.30 10.35 10.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 55.868 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024721.D

Acq: 19 Jun 2018 04:20

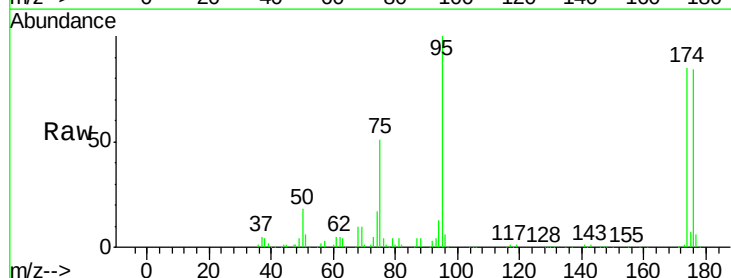
Tgt Ion: 75 Resp: 79700

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

60000

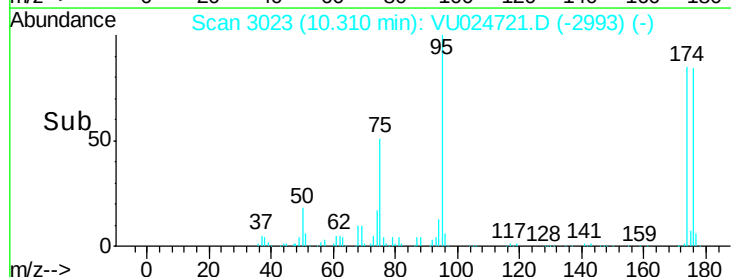
40000

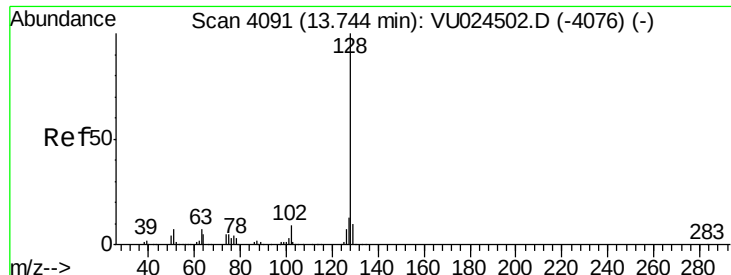
20000

0

10.25 10.30 10.35 10.40

Time-->





#95

Naphthalene

Concen: 0.690 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024721.D

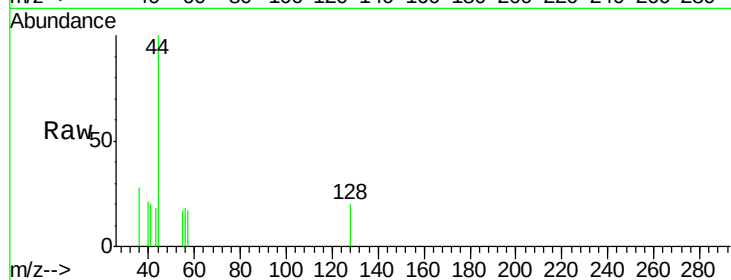
Acq: 19 Jun 2018 04:20

Instrument :

MSVOA_U

ClientSampleId :

DUP-0448-180613



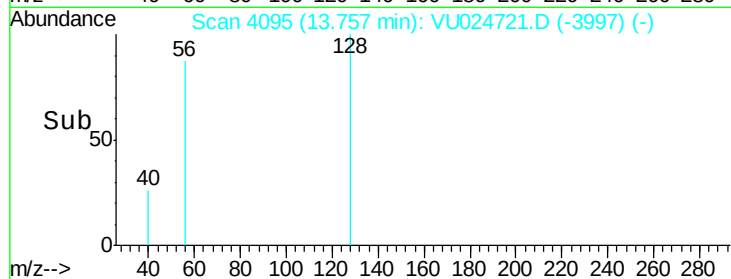
Tgt Ion:128 Resp: 117

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

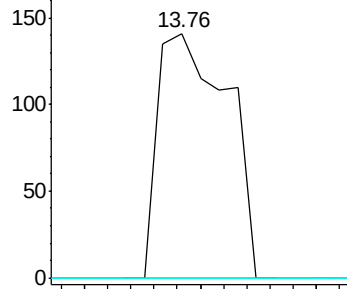
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->