

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062118\
 Data File : VU024818.D
 Acq On : 21 Jun 2018 18:06
 Operator : MD/SY
 Sample : J3561-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S32-0625

Quant Time: Jun 22 03:52:48 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	186701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	287042	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	272883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	144831	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	134456	44.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.22%	
35) Dibromofluoromethane	4.89	113	111866	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
50) Toluene-d8	7.57	98	423232	48.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.42%	
62) 4-Bromofluorobenzene	10.31	95	154157	44.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.36%	

Target Compounds

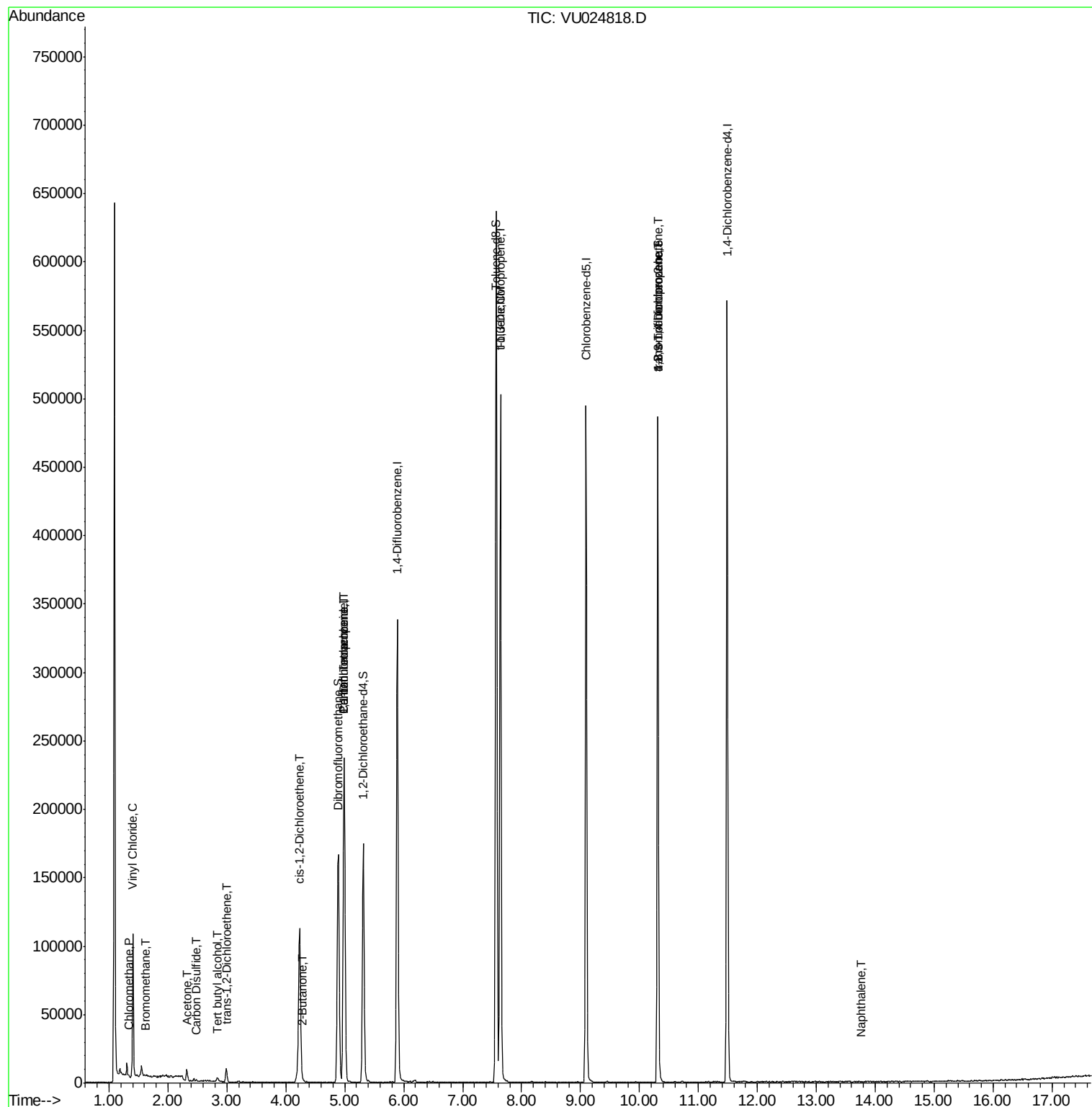
						Qvalue
3) Chloromethane	1.33	50	736	0.308	ug/l #	68
4) Vinyl Chloride	1.40	62	63321	25.717	ug/l	98
5) Bromomethane	1.63	94	479	0.402	ug/l	90
11) Tert butyl alcohol	2.83	59	1624	2.191	ug/l #	72
16) Acetone	2.32	43	8795	5.370	ug/l	98
17) Carbon Disulfide	2.48	76	2027	0.298	ug/l #	87
21) trans-1,2-Dichloroethene	2.99	96	4147	1.771	ug/l #	82
25) 2-Butanone	4.28	43	1873	0.851	ug/l #	76
27) cis-1,2-Dichloroethene	4.23	96	64819	24.080	ug/l	85
31) Cyclohexane	5.00	56	3767	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13508	4.005	ug/l #	50
38) Carbon Tetrachloride	4.99	117	17401	4.691	ug/l #	17
52) Toluene	7.64	92	206944	33.467	ug/l	100
53) t-1,3-Dichloropropene	7.64	75	2284	0.567	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	81769	25.644	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	81769	59.350	ug/l #	100
95) Naphthalene	13.76	128	70	0.686	ug/l #	69

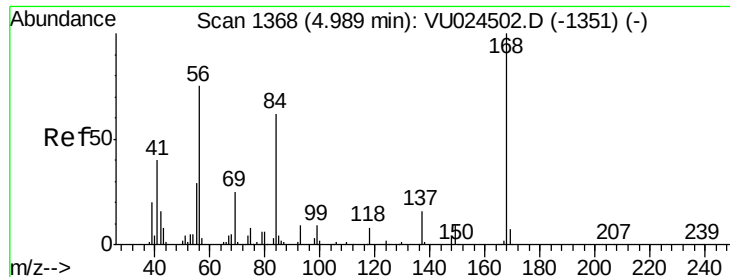
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

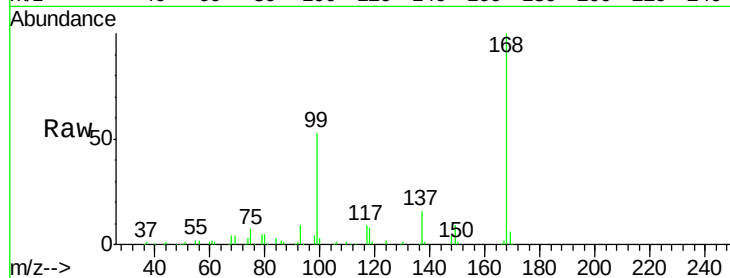
S32-0625

Tot Ion:168 Resp: 186701

Ion Ratio Lower Upper

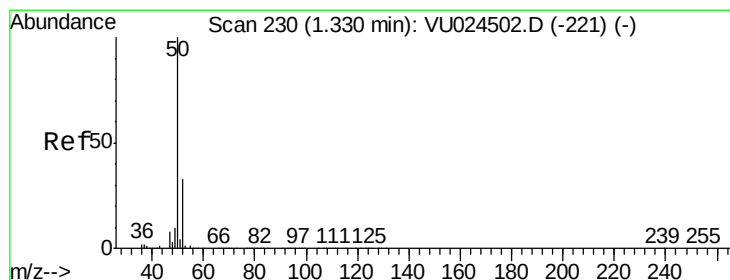
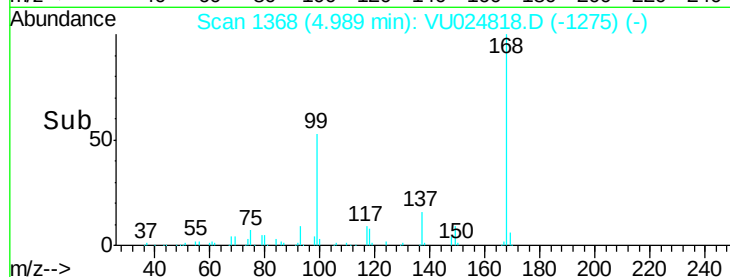
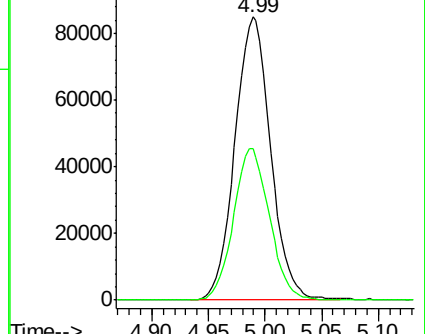
168 100

99 53.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024818.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024818.D (-1275) (-)



#3

Chloromethane

Concen: 0.308 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024818.D

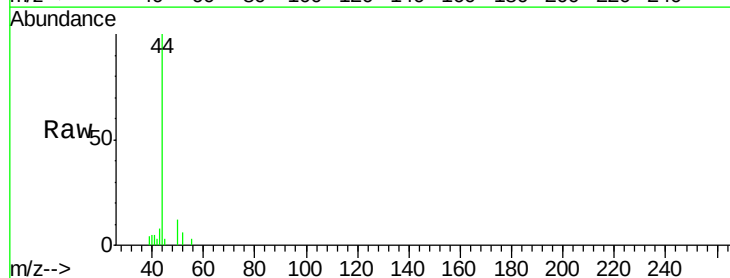
Acq: 21 Jun 2018 18:06

Tgt Ion: 50 Resp: 736

Ion Ratio Lower Upper

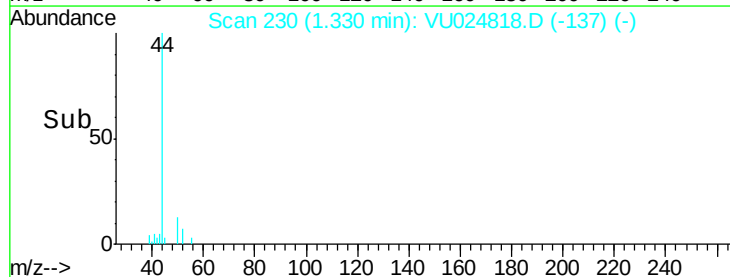
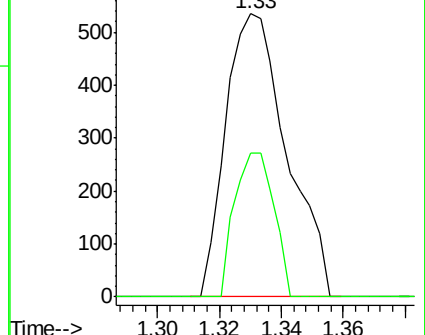
50 100

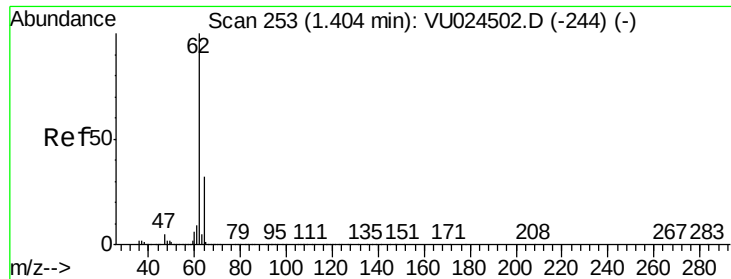
52 51.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024818.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024818.D (-137) (-)





#4

Vinyl Chloride

Concen: 25.717 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

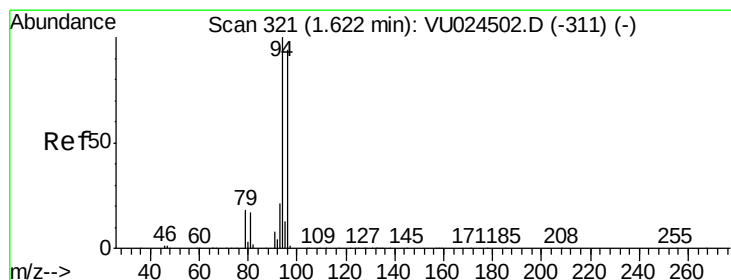
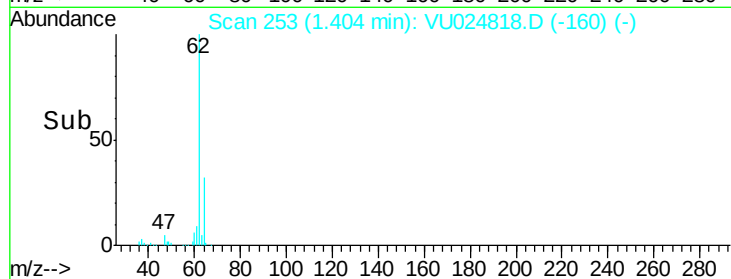
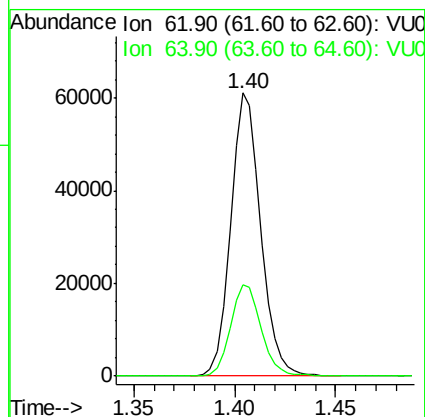
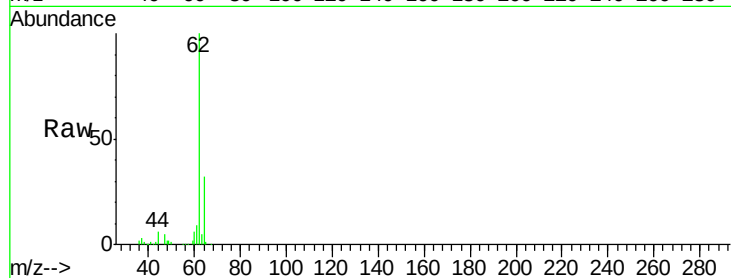
S32-0625

Tot Ion: 62 Resp: 63321

Ion Ratio Lower Upper

62 100

64 32.2 24.8 37.2



#5

Bromomethane

Concen: 0.402 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU024818.D

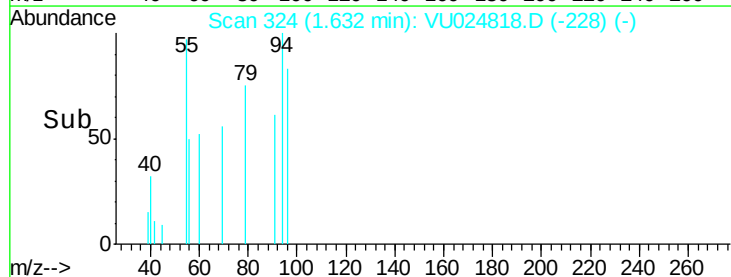
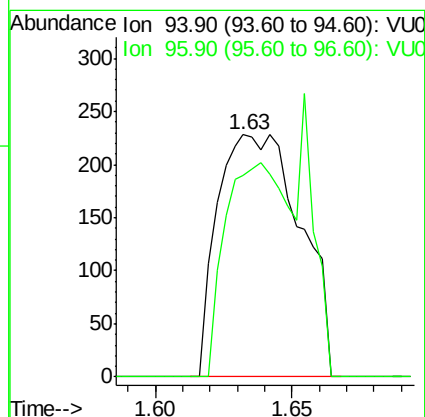
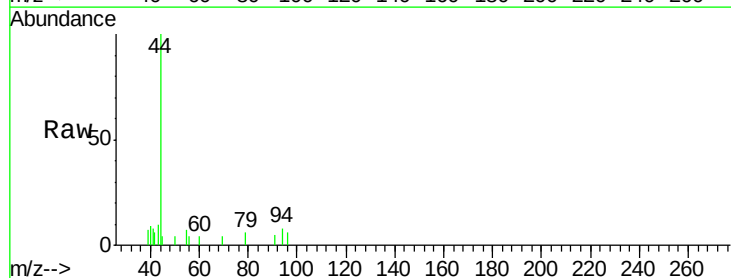
Acq: 21 Jun 2018 18:06

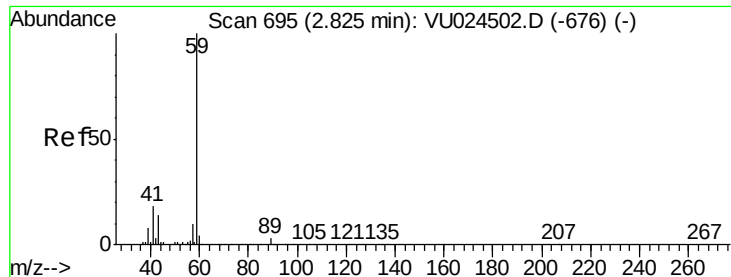
Tgt Ion: 94 Resp: 479

Ion Ratio Lower Upper

94 100

96 83.3 74.5 111.7





#11

Tert butyl alcohol

Concen: 2.191 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

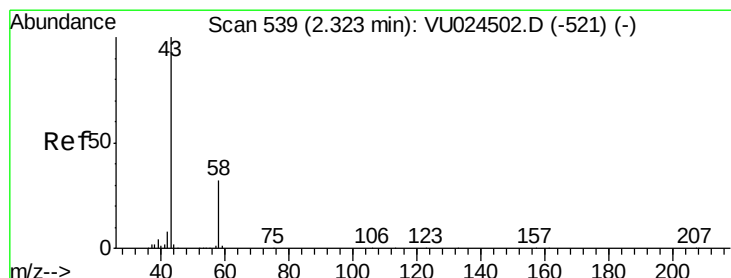
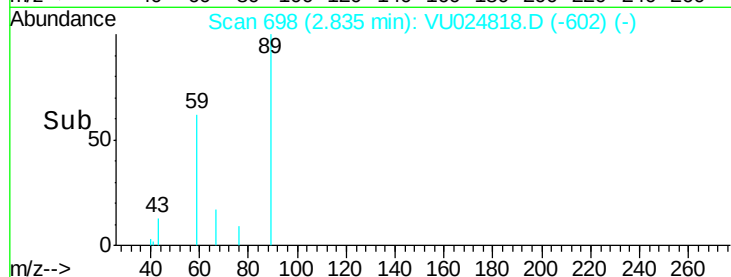
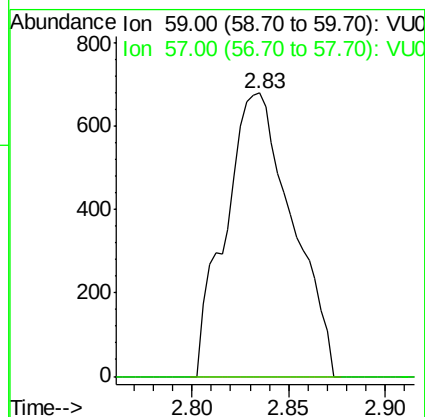
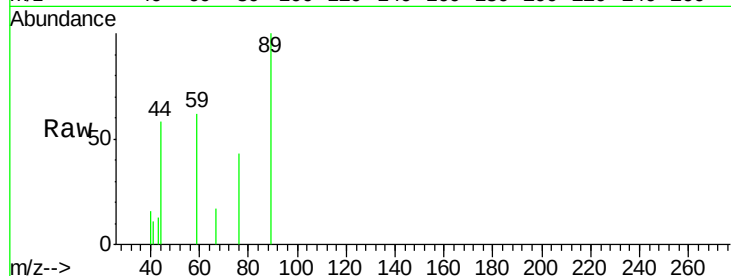
S32-0625

Tot Ion: 59 Resp: 1624

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#16

Acetone

Concen: 5.370 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024818.D

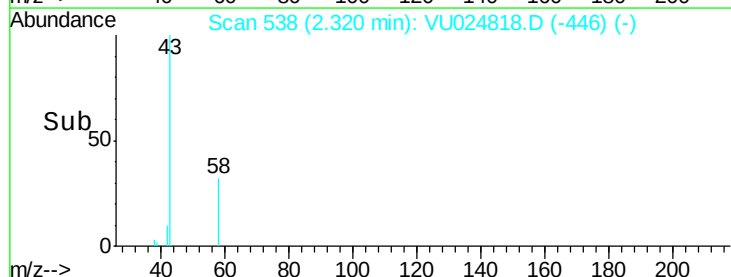
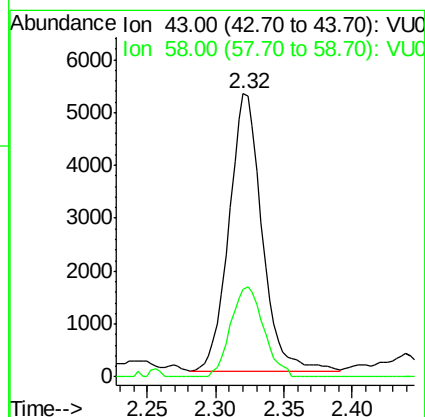
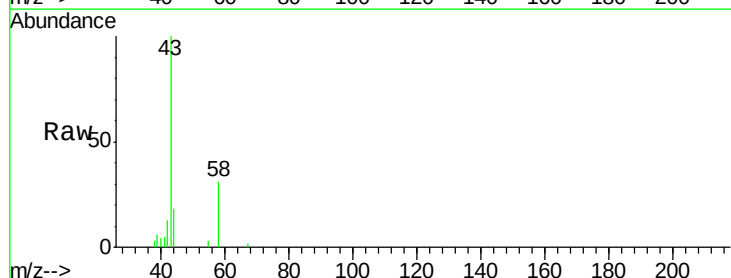
Acq: 21 Jun 2018 18:06

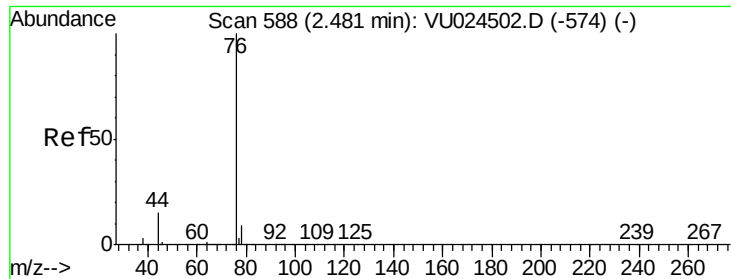
Tgt Ion: 43 Resp: 8795

Ion Ratio Lower Upper

43 100

58 31.5 24.4 36.6





#17

Carbon Disulfide

Concen: 0.298 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampled :

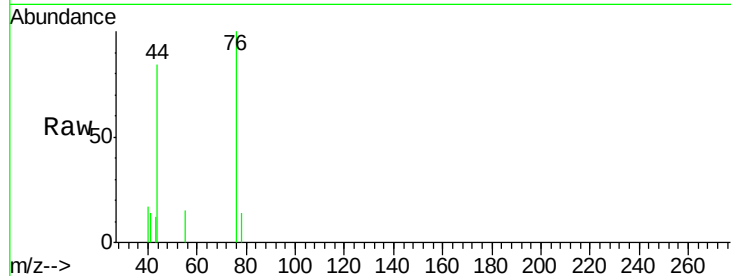
S32-0625

Tot Ion: 76 Resp: 2027

Ion Ratio Lower Upper

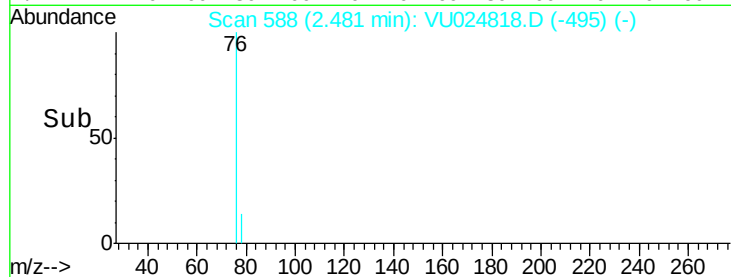
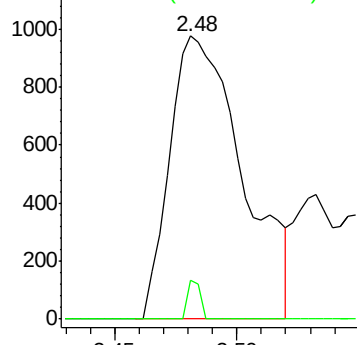
76 100

78 13.7 7.1 10.7#

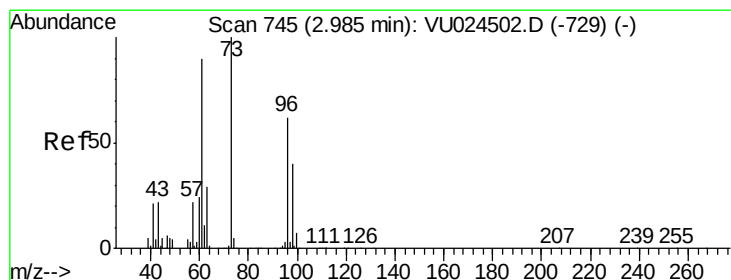


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time-->



#21

trans-1,2-Dichloroethene

Concen: 1.771 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

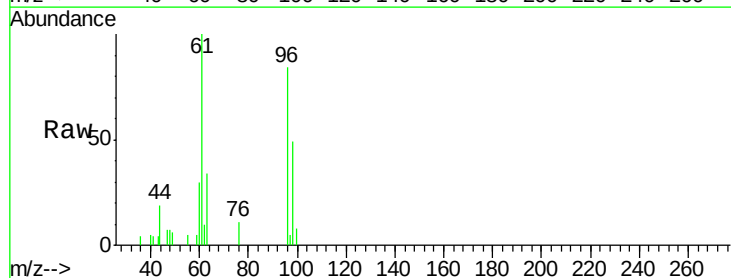
Tgt Ion: 96 Resp: 4147

Ion Ratio Lower Upper

96 100

61 119.3 119.4 179.0#

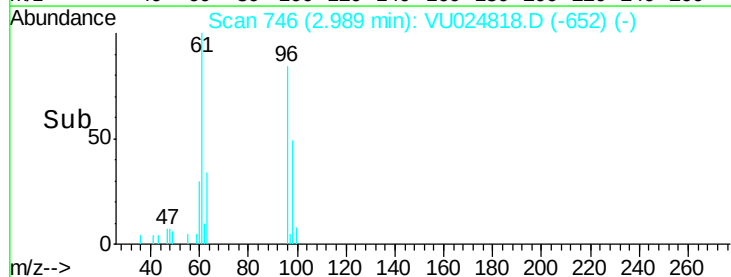
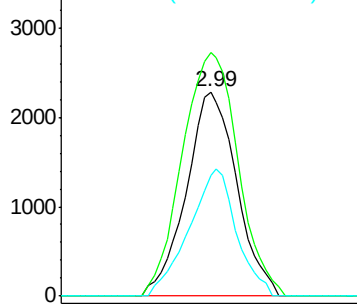
98 58.9 51.1 76.7



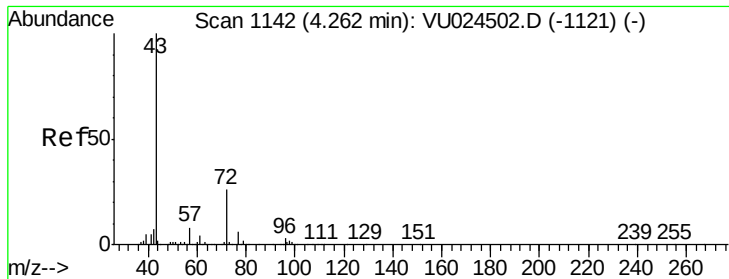
Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



Time-->



#25

2-Butanone

Concen: 0.851 ug/l

RT: 4.28 min Scan# 1148

Delta R.T. 0.02 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

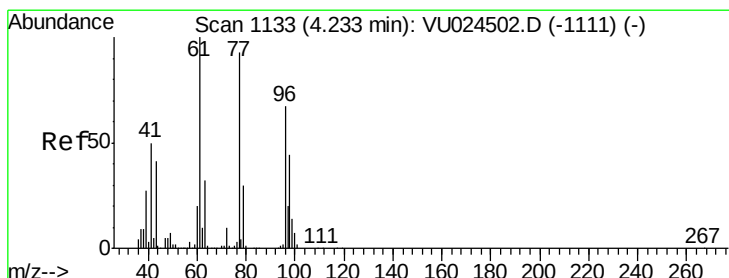
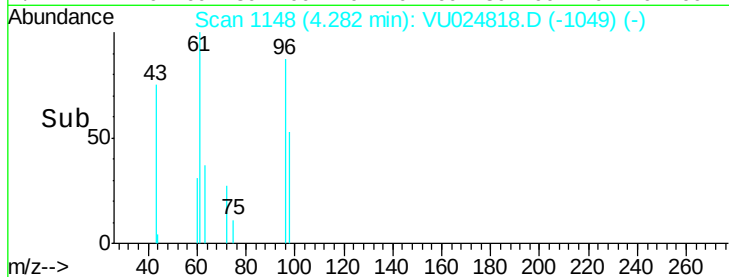
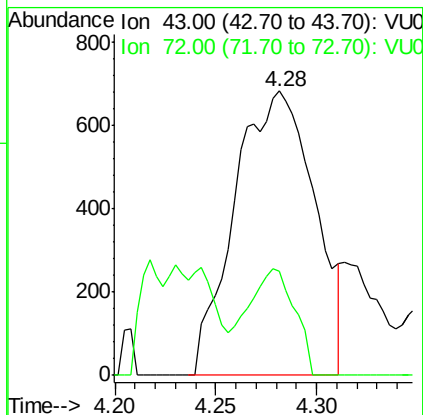
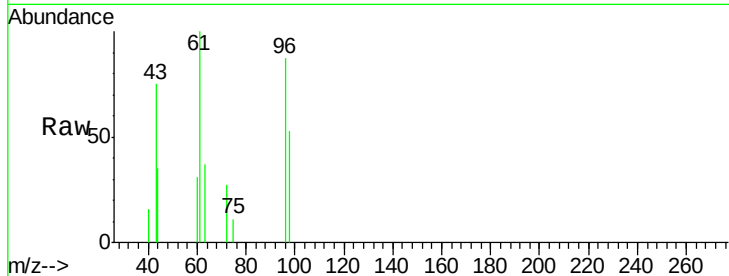
S32-0625

Tot Ion: 43 Resp: 1873

Ion Ratio Lower Upper

43 100

72 36.3 19.6 29.4#



#27

cis-1,2-Dichloroethene

Concen: 24.080 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

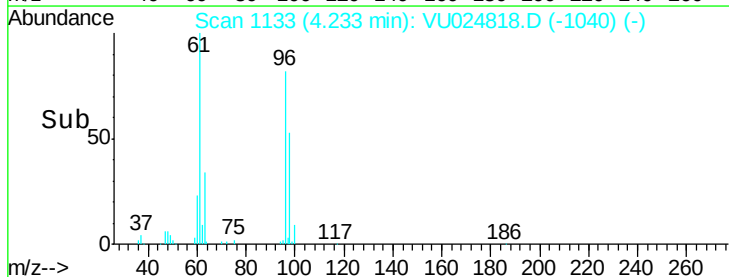
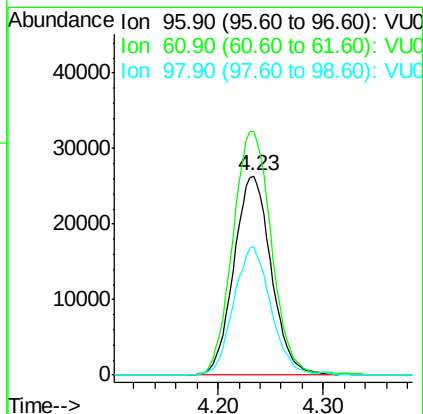
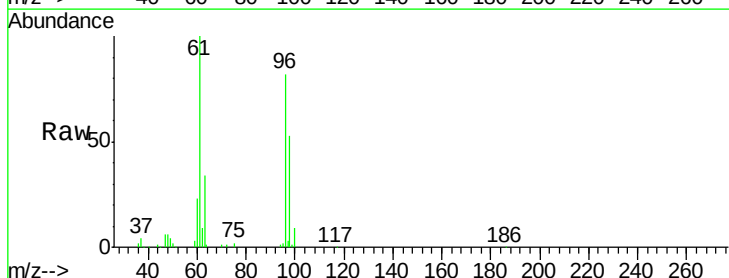
Tgt Ion: 96 Resp: 64819

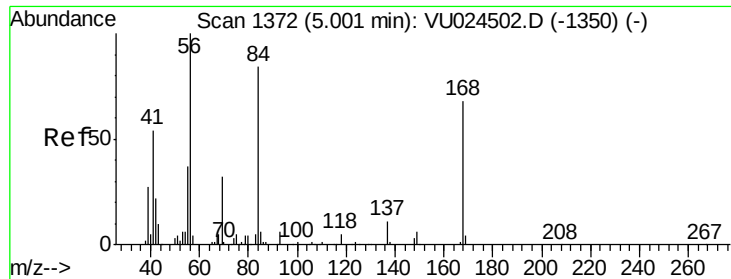
Ion Ratio Lower Upper

96 100

61 126.7 0.0 306.6

98 63.8 0.0 128.8





#31

Cyclohexane

Concen: Below Cal

RT: 5.00 min Scan# 1370

Delta R.T. -0.01 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

S32-0625

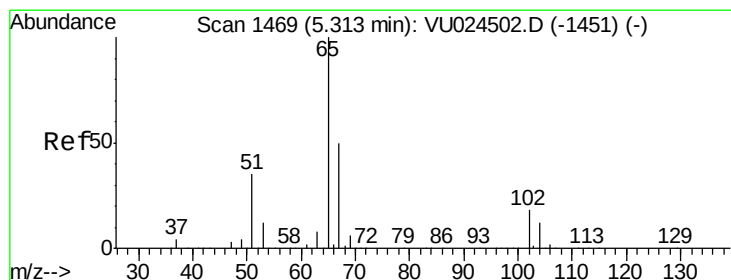
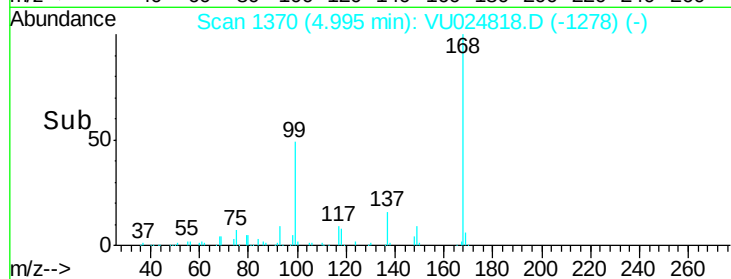
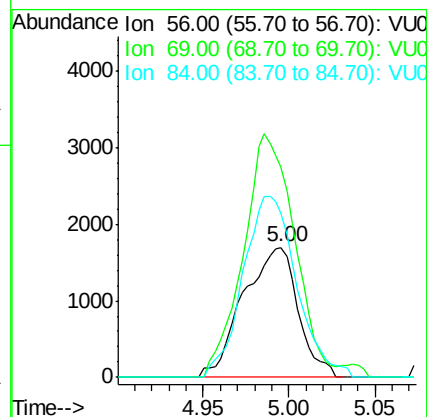
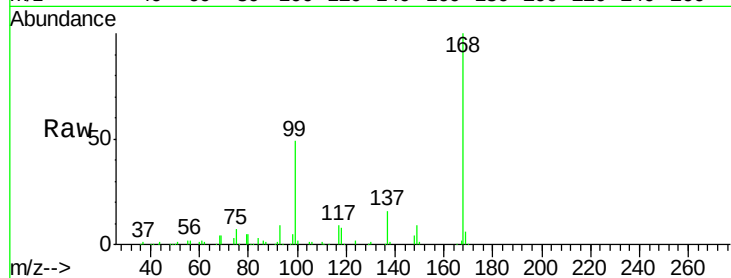
Tot Ion: 56 Resp: 3767

Ion Ratio Lower Upper

56 100

69 161.7 24.8 37.2#

84 126.3 65.2 97.8#



#33

1,2-Dichloroethane-d4

Concen: 44.114 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU024818.D

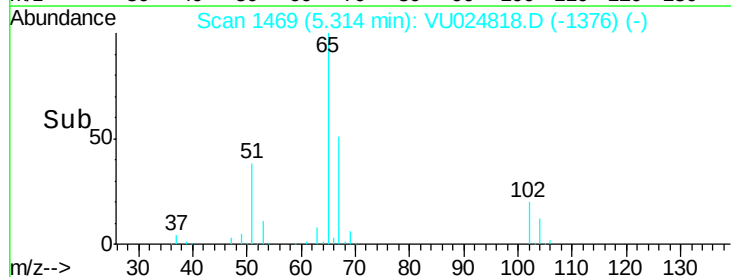
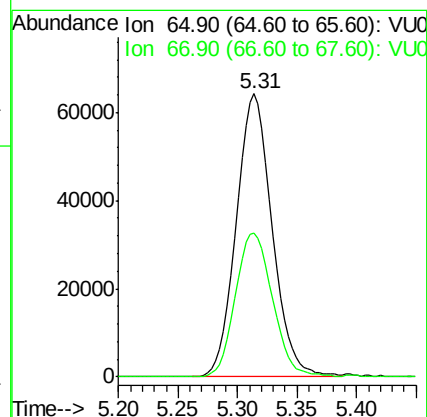
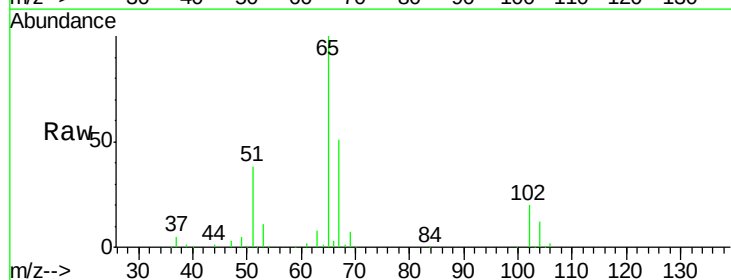
Acq: 21 Jun 2018 18:06

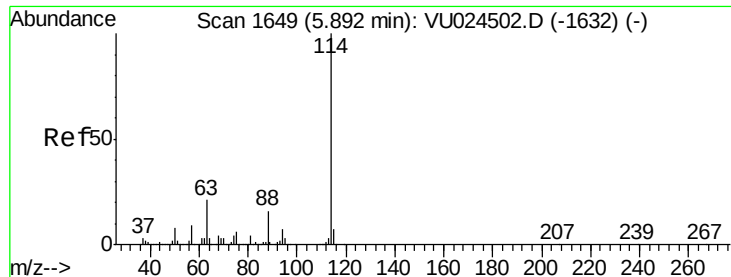
Tgt Ion: 65 Resp: 134456

Ion Ratio Lower Upper

65 100

67 52.7 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

S32-0625

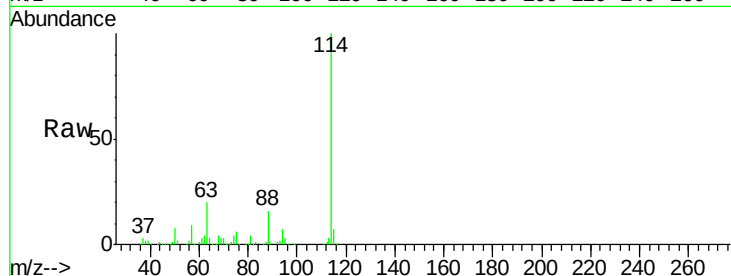
Tot Ion:114 Resp: 287042

Ion Ratio Lower Upper

114 100

63 20.1 0.0 45.4

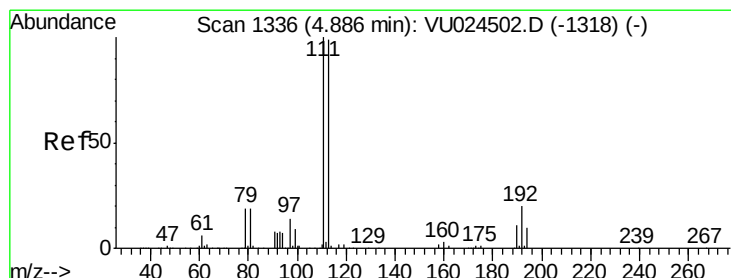
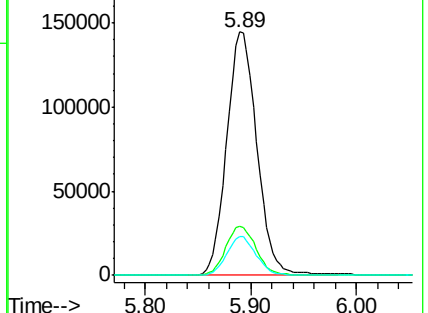
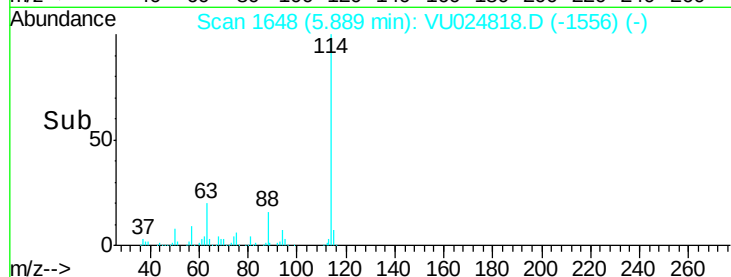
88 16.1 0.0 31.0



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



#35

Dibromofluoromethane

Concen: 46.959 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

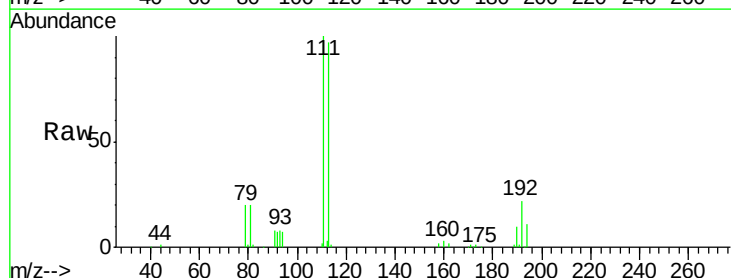
Tgt Ion:113 Resp: 111866

Ion Ratio Lower Upper

113 100

111 103.9 82.2 123.4

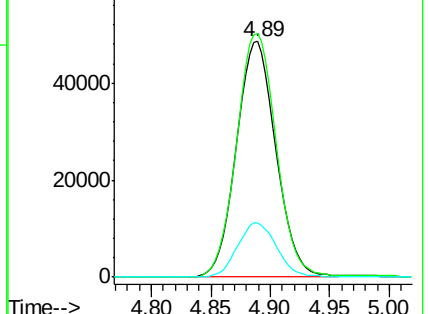
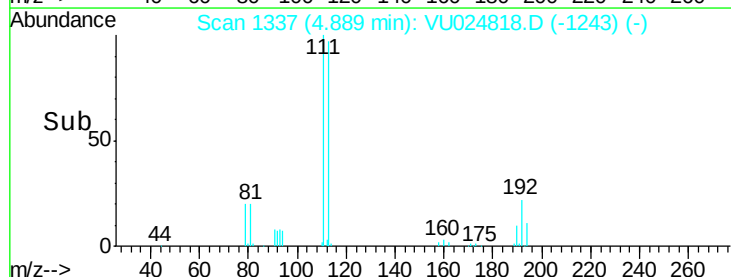
192 22.7 16.2 24.4

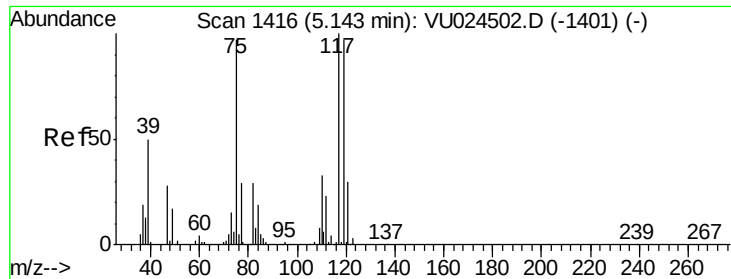


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

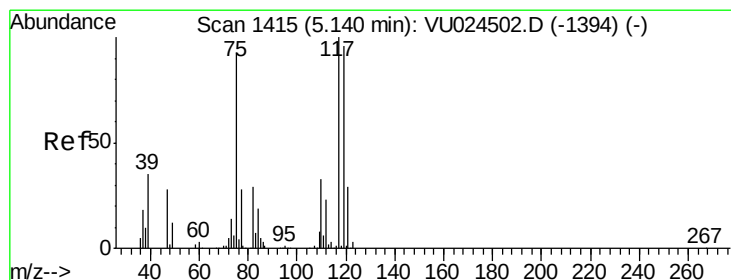
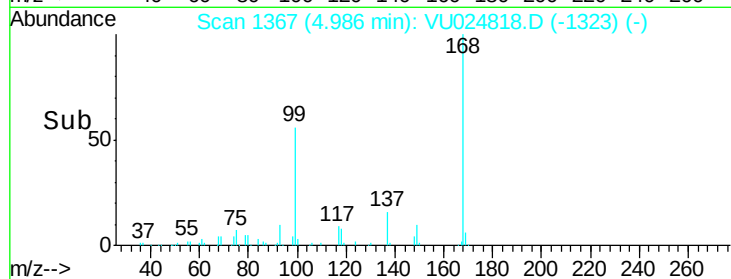
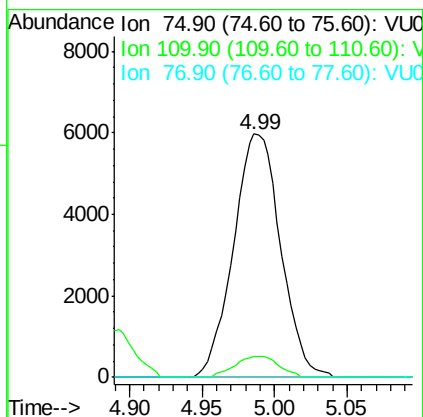
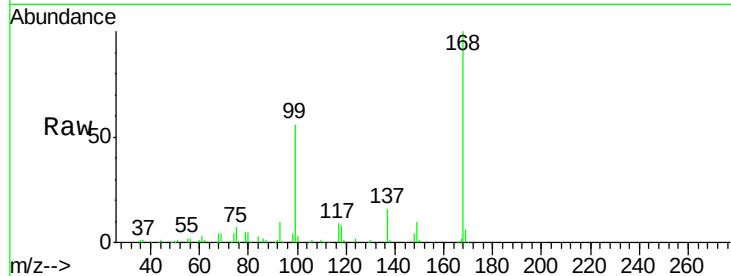




#36
 1,1-Dichloropropene
 Concen: 4.005 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024818.D
 Acq: 21 Jun 2018 18:06

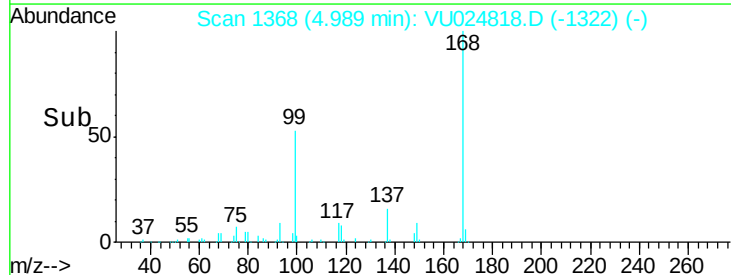
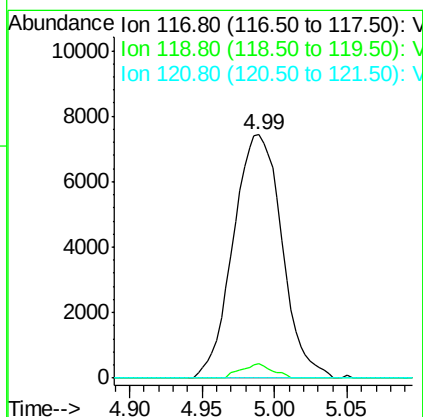
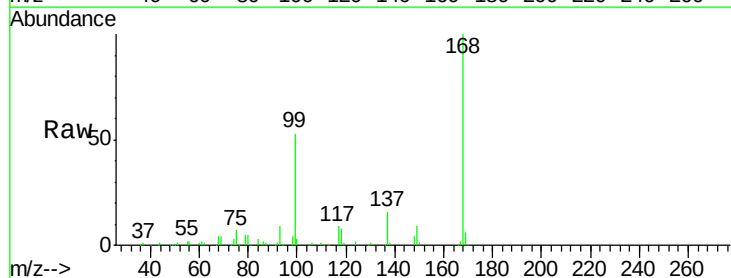
Instrument :
 MSVOA_U
 ClientSampleId :
 S32-0625

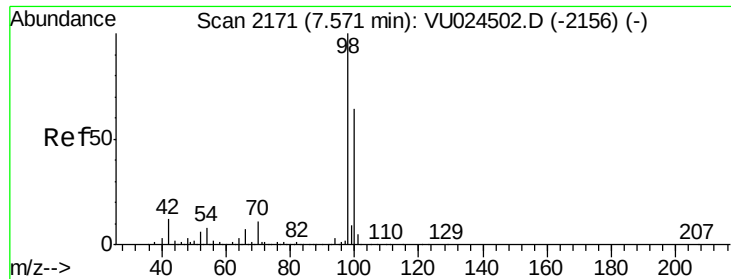
Tot Ion	75	110	77	Resp	Lower	Upper
13508	100	8.1	0.0		17.0	50.9#
					24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.691 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024818.D
 Acq: 21 Jun 2018 18:06

Tgt Ion	117	119	121	Resp	Lower	Upper
17401	100	5.7	0.0		76.1	114.1#
					23.7	35.5#





#50

Toluene-d8

Concen: 48.707 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

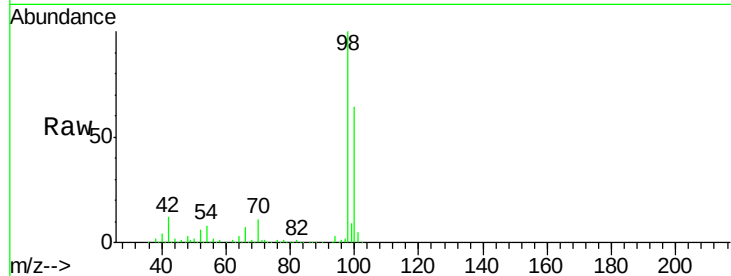
S32-0625

Tot Ion: 98 Resp: 423232

Ion Ratio Lower Upper

98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)

Ion 100.00 (99.70 to 100.70): VU024502.D (-2156) (-)

7.57

250000

200000

150000

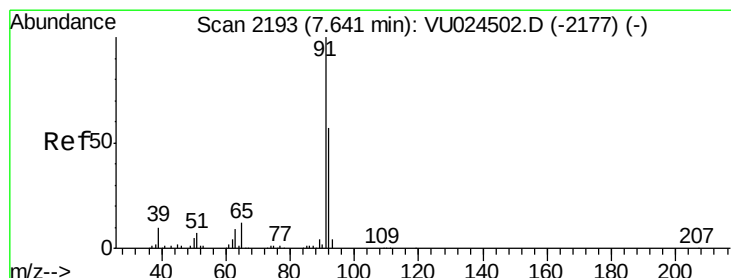
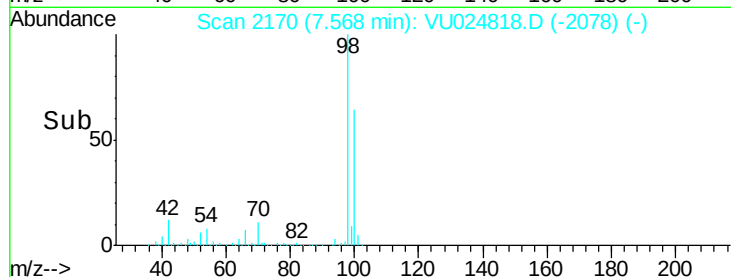
100000

50000

0

7.50 7.55 7.60 7.65

Time-->



#52

Toluene

Concen: 33.467 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU024818.D

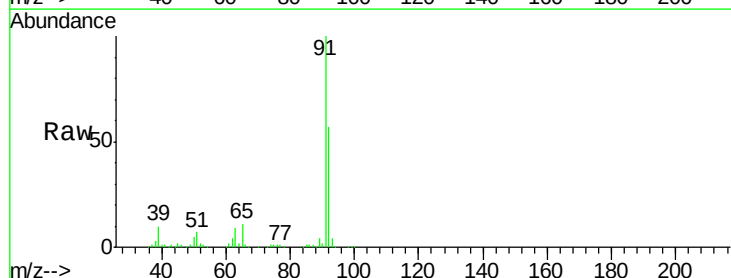
Acq: 21 Jun 2018 18:06

Tgt Ion: 92 Resp: 206944

Ion Ratio Lower Upper

92 100

91 175.1 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU024502.D (-2177) (-)

Ion 91.00 (90.70 to 91.70): VU024502.D (-2177) (-)

7.64

250000

200000

150000

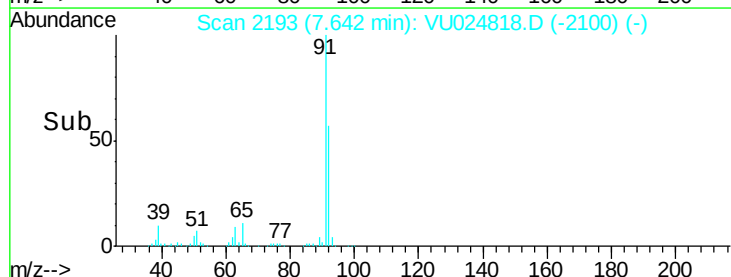
100000

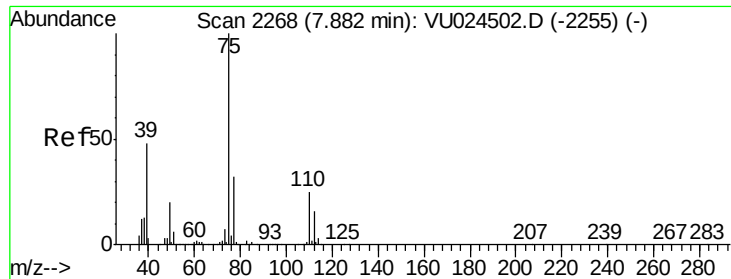
50000

0

7.55 7.60 7.65 7.70 7.75

Time-->

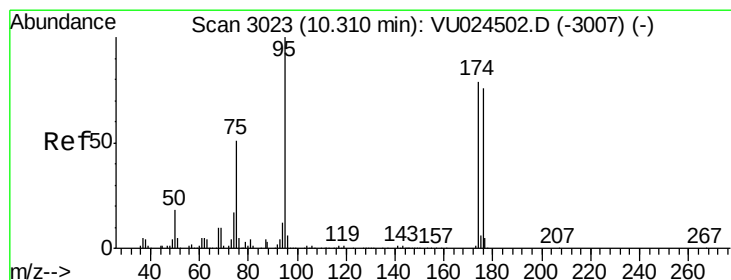
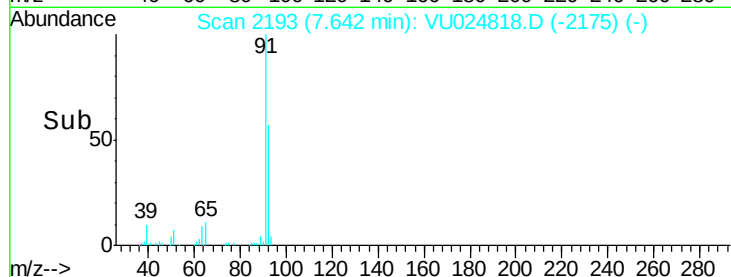
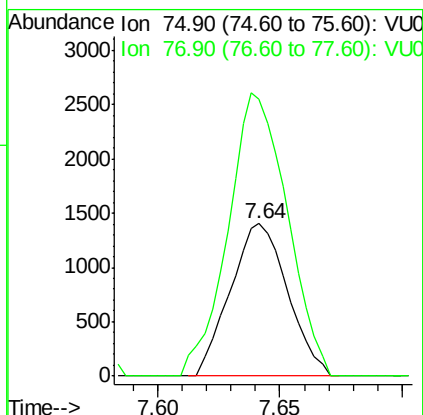
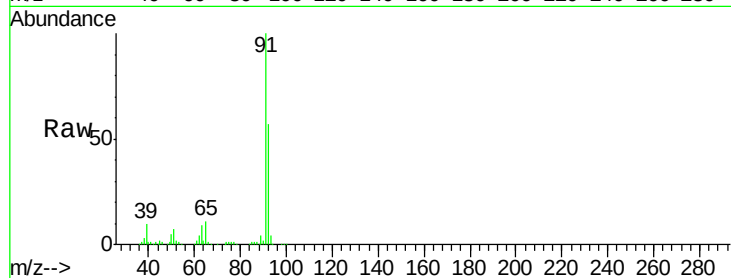




#53
t-1,3-Dichloropropene
Concen: 0.567 ug/l
RT: 7.64 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VU024818.D
Acq: 21 Jun 2018 18:06

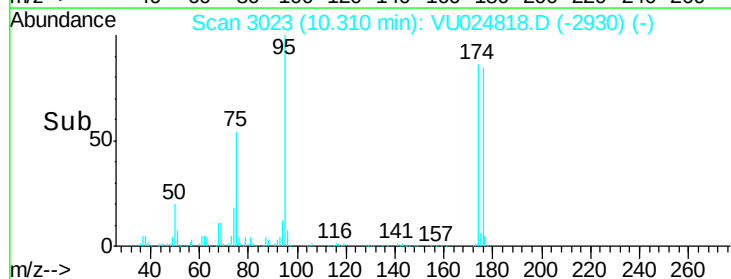
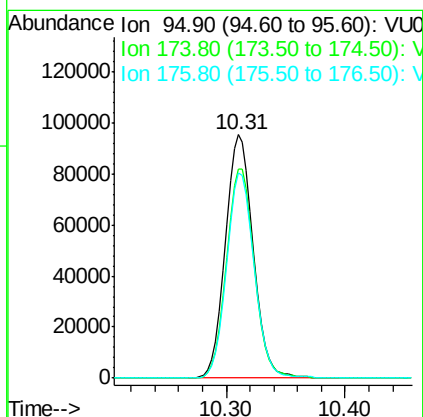
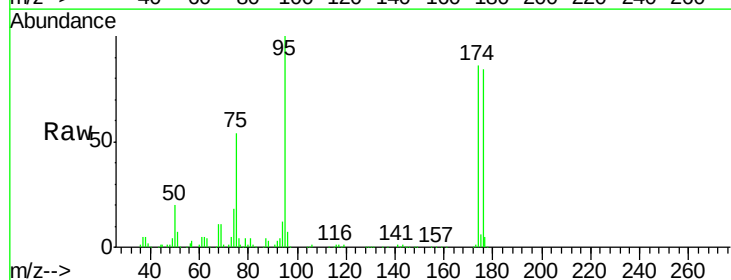
Instrument :
MSVOA_U
ClientSampleId :
S32-0625

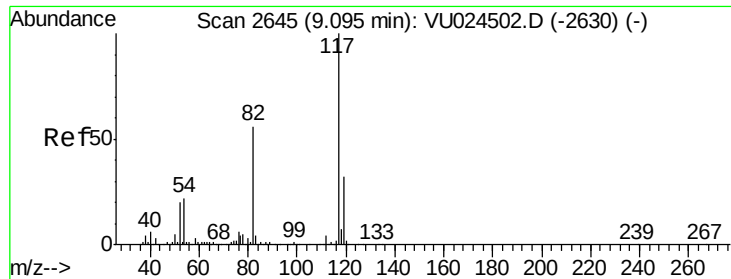
Tot Ion: 75 Resp: 2284
Ion Ratio Lower Upper
75 100
77 182.0 24.8 37.2#



#62
4-Bromofluorobenzene
Concen: 44.683 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024818.D
Acq: 21 Jun 2018 18:06

Tgt Ion: 95 Resp: 154157
Ion Ratio Lower Upper
95 100
174 86.4 0.0 165.8
176 84.1 0.0 159.4

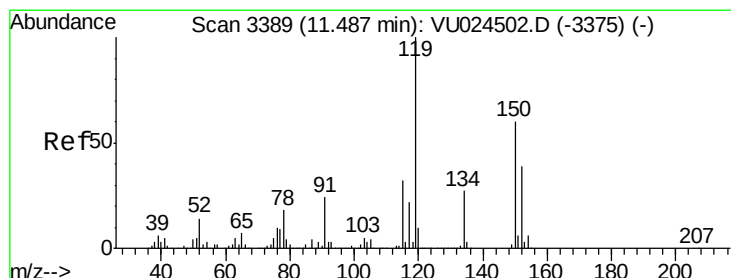
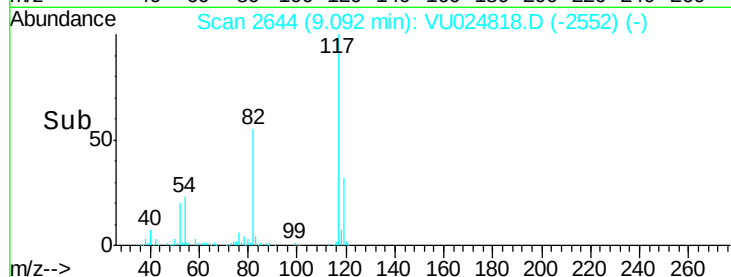
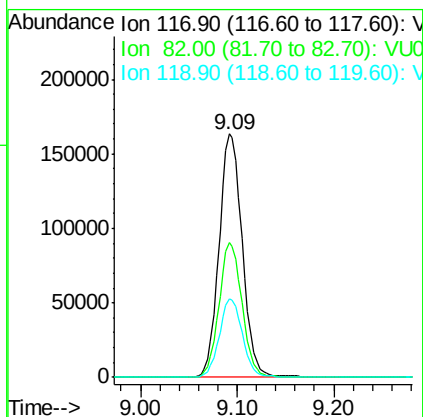
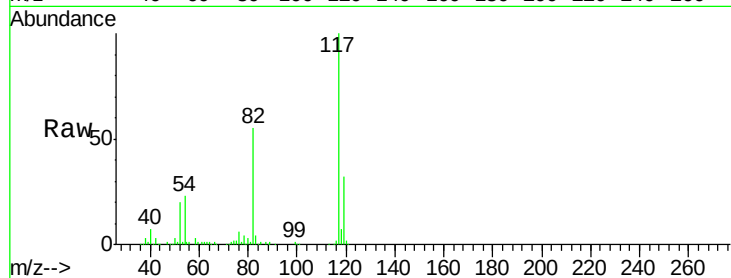




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024818.D
Acq: 21 Jun 2018 18:06

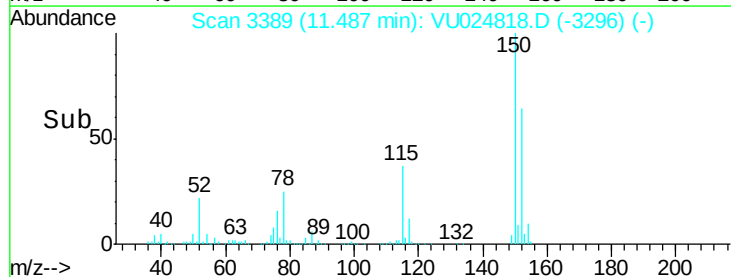
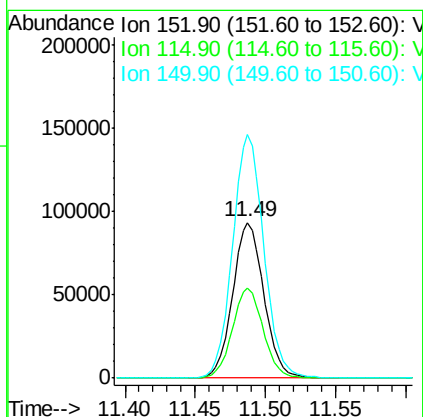
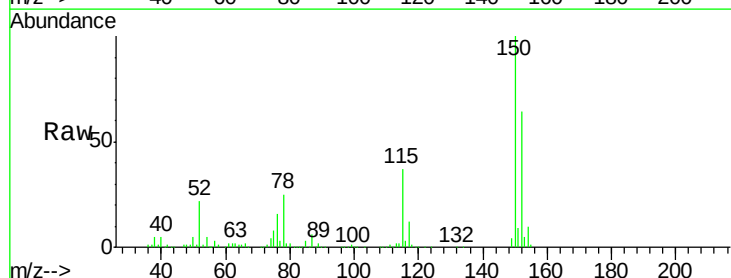
Instrument :
MSVOA_U
ClientSampleId :
S32-0625

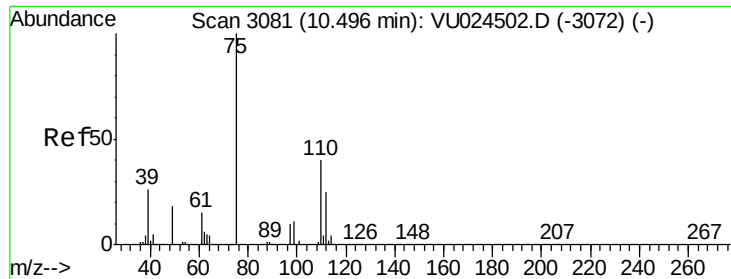
Tot Ion:117 Resp: 272883
Ion Ratio Lower Upper
117 100
82 55.3 44.3 66.5
119 32.0 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024818.D
Acq: 21 Jun 2018 18:06

Tgt Ion:152 Resp: 144831
Ion Ratio Lower Upper
152 100
115 57.2 43.0 129.0
150 156.9 0.0 354.0

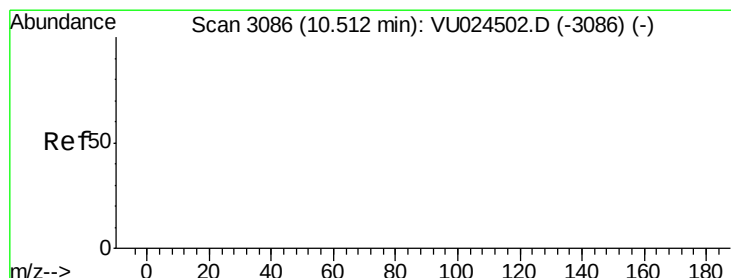
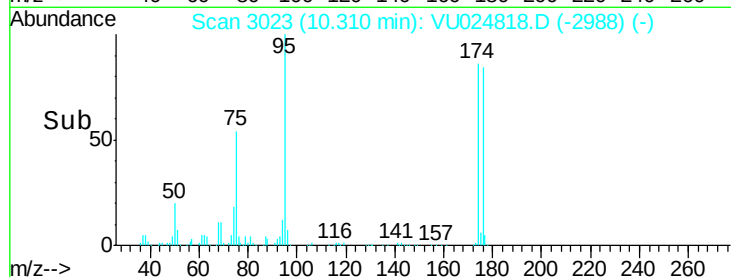
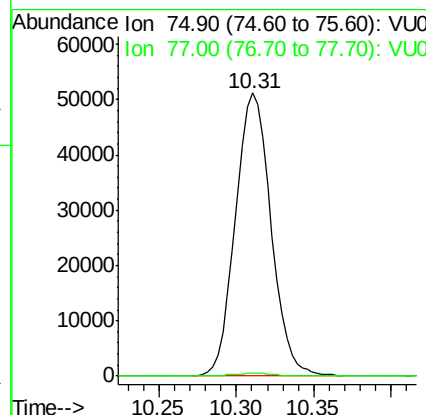
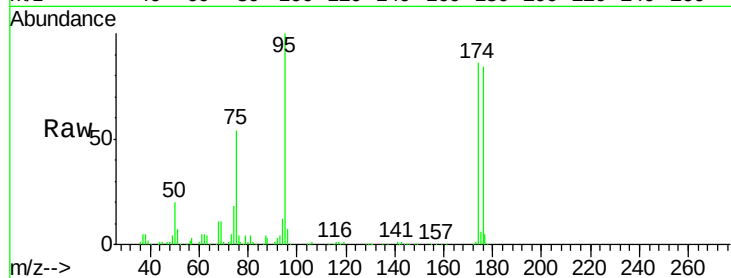




#76
 1,2,3-Trichloropropane
 Concen: 25.644 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024818.D
 Acq: 21 Jun 2018 18:06

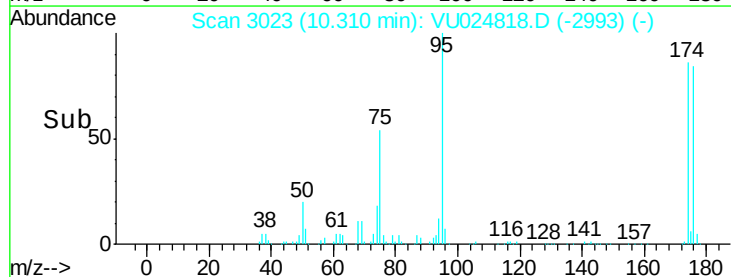
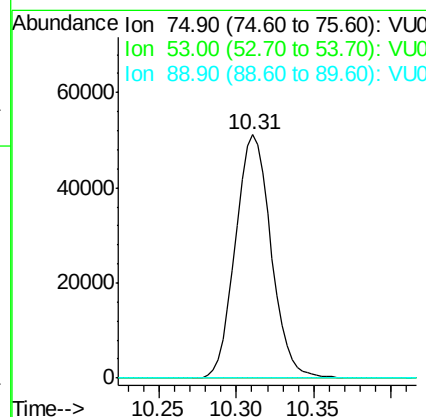
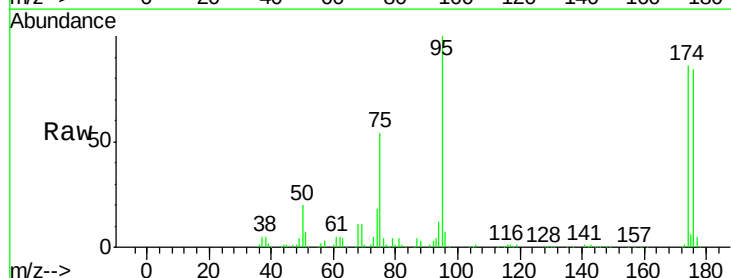
Instrument :
 MSVOA_U
 ClientSampleId :
 S32-0625

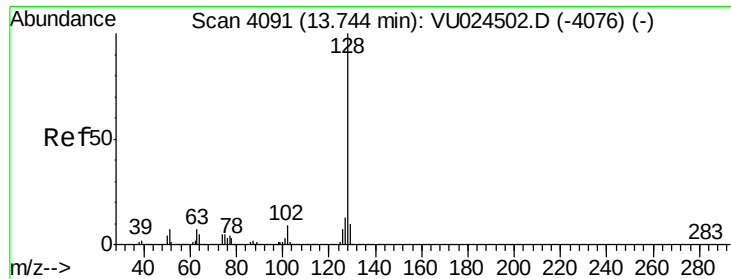
Tot Ion: 75 Resp: 81769
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.350 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024818.D
 Acq: 21 Jun 2018 18:06

Tgt Ion: 75 Resp: 81769
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.686 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024818.D

Acq: 21 Jun 2018 18:06

Instrument :

MSVOA_U

ClientSampleId :

S32-0625

Tot Ion:128 Resp: 70

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#

