

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071118\
 Data File : VU025314.D
 Acq On : 11 Jul 2018 15:02
 Operator : MD/SY
 Sample : J3921-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-180709

Quant Time: Jul 12 03:11:34 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	208077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	315354	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	292606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	152263	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	156988	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
35) Dibromofluoromethane	4.89	113	123738	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	
50) Toluene-d8	7.57	98	452281	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
62) 4-Bromofluorobenzene	10.31	95	168849	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	

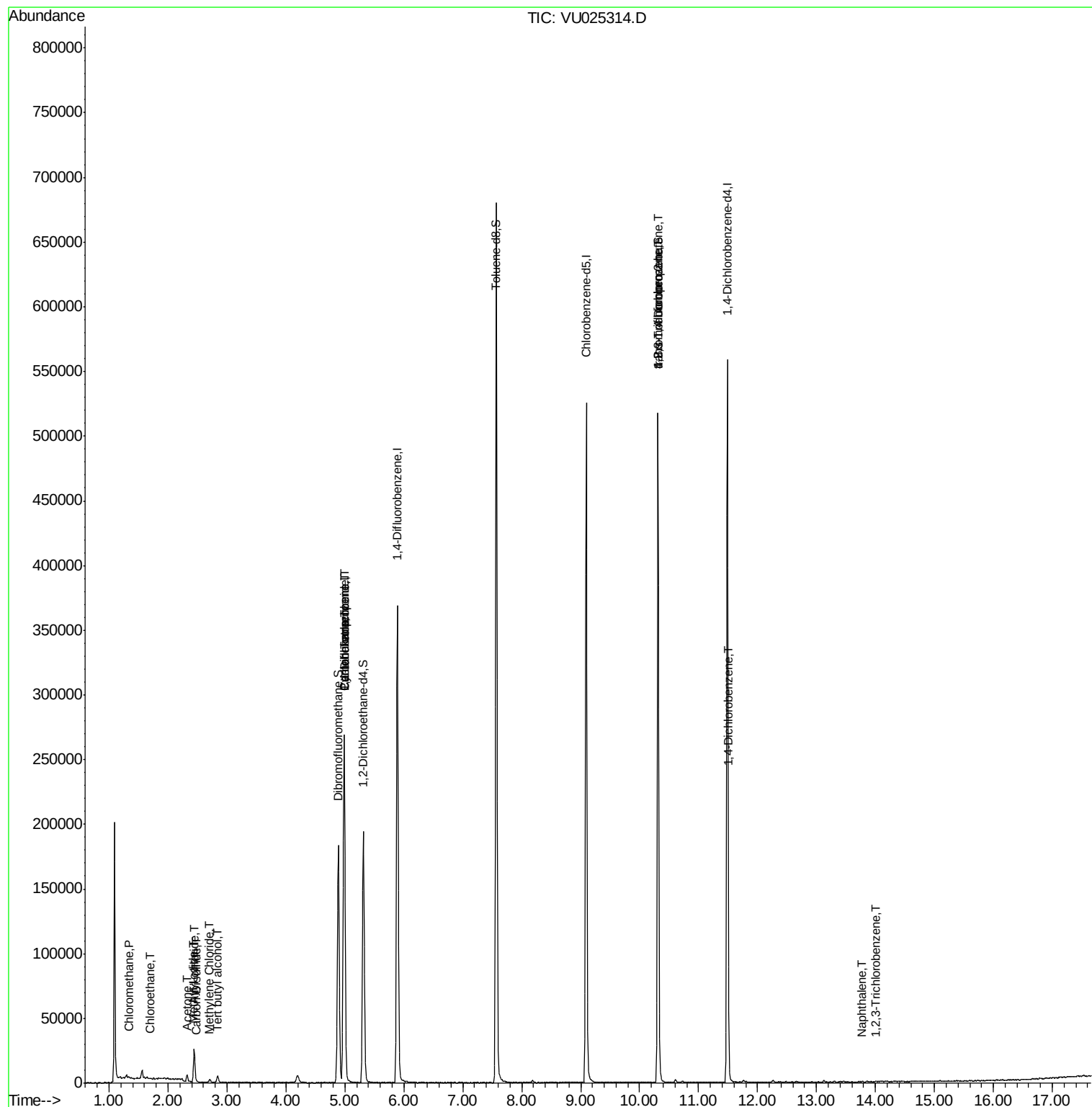
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	497	0.79	ug/l #	81
5) Bromomethane	1.63	94	287	Below Cal	#	78
6) Chloroethane	1.70	64	79	0.34	ug/l #	43
10) Methyl Iodide	2.42	142	165	7.76	ug/l #	79
11) Tert butyl alcohol	2.84	59	3026	4.29	ug/l #	73
14) Allyl chloride	2.44	41	2767	0.72	ug/l #	72
16) Acetone	2.32	43	6068	8.47	ug/l	93
17) Carbon Disulfide	2.48	76	406	1.99	ug/l #	74
20) Methylene Chloride	2.70	84	1342	1.22	ug/l #	82
31) Cyclohexane	4.99	56	4251	1.77	ug/l #	34
36) 1,1-Dichloropropene	4.99	75	15444	4.41	ug/l #	50
38) Carbon Tetrachloride	4.99	117	20087	5.32	ug/l #	16
76) 1,2,3-Trichloropropane	10.31	75	88330	28.49	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	88330	72.82	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	142	1.51	ug/l #	25
95) Naphthalene	13.77	128	638	2.47	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	79	2.55	ug/l #	12

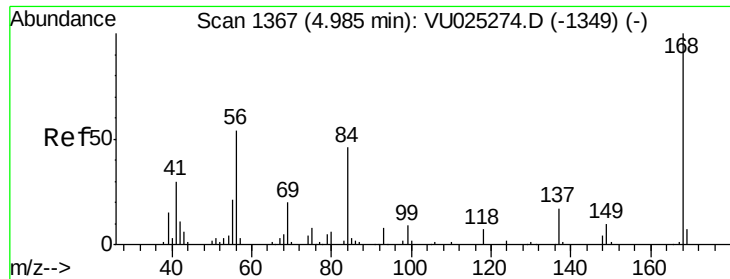
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

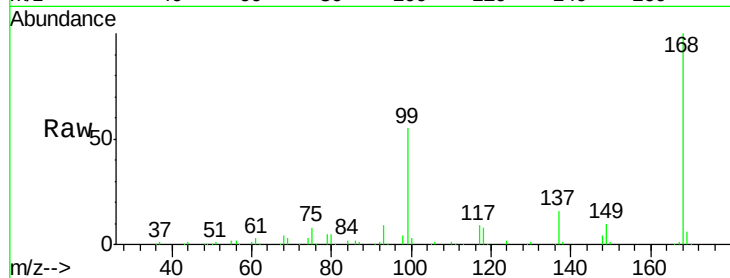
TB-01-180709

Tot Ion:168 Resp: 208077

Ion Ratio Lower Upper

168 100

99 54.7 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

100000

80000

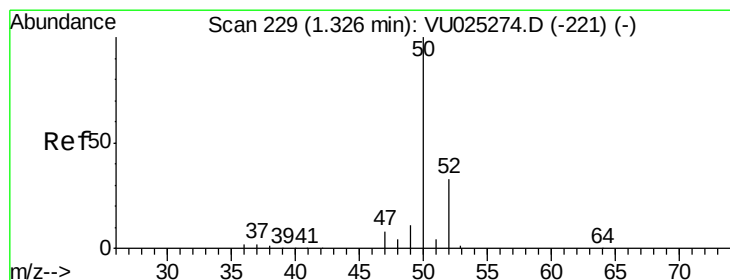
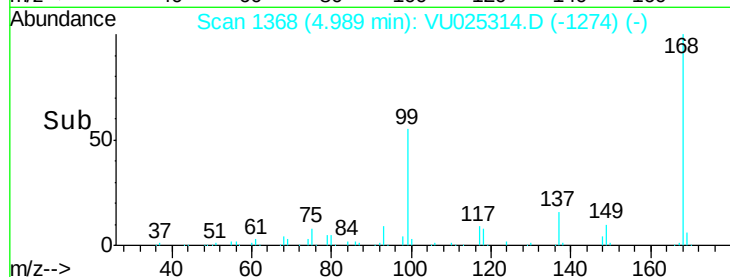
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.79 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025314.D

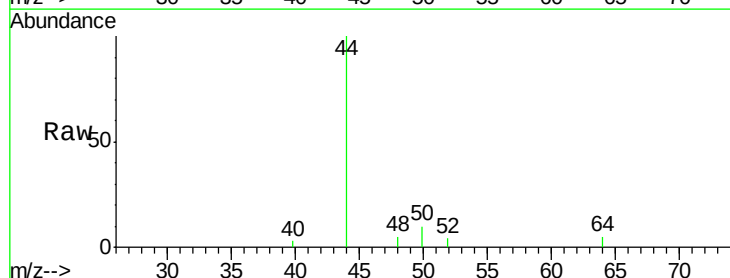
Acq: 11 Jul 2018 15:02

Tgt Ion: 50 Resp: 497

Ion Ratio Lower Upper

50 100

52 43.7 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

500

400

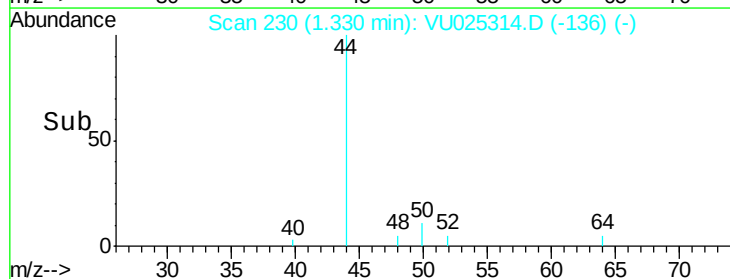
300

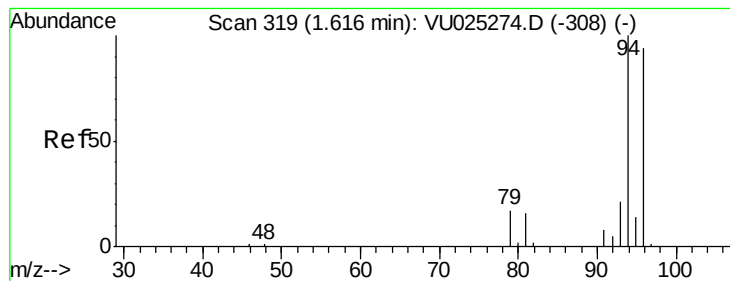
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 324

Delta R.T. 0.02 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

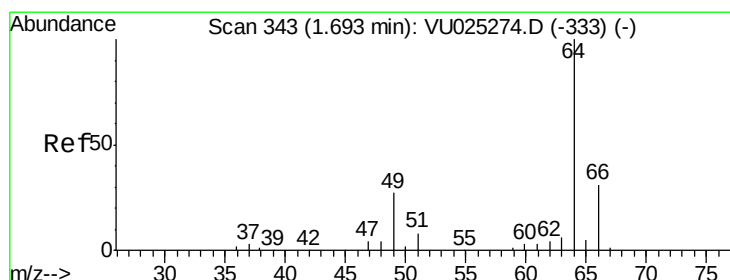
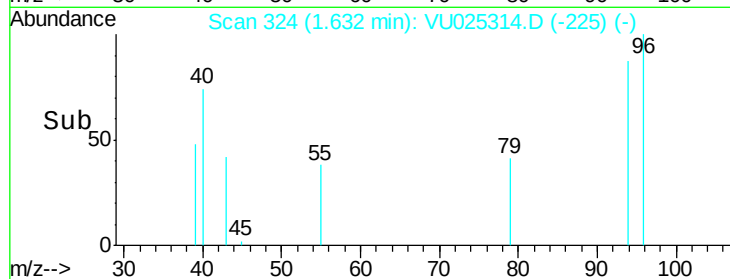
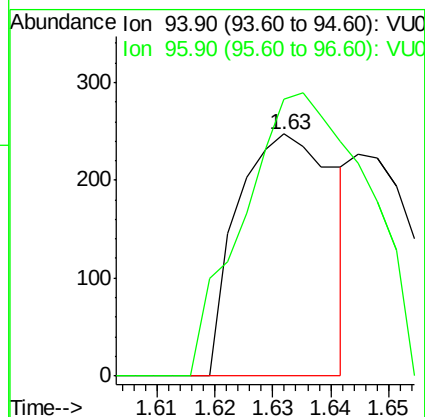
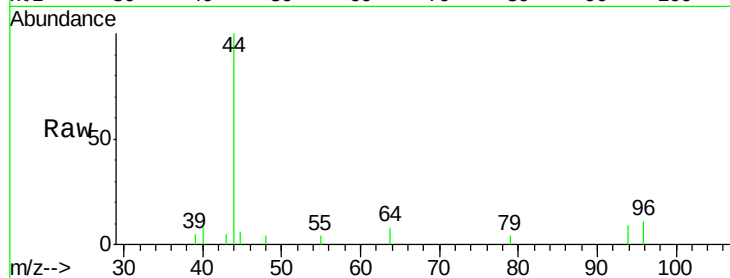
TB-01-180709

Tot Ion: 94 Resp: 287

Ion Ratio Lower Upper

94 100

96 114.6 75.0 112.4#



#6

Chloroethane

Concen: 0.34 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025314.D

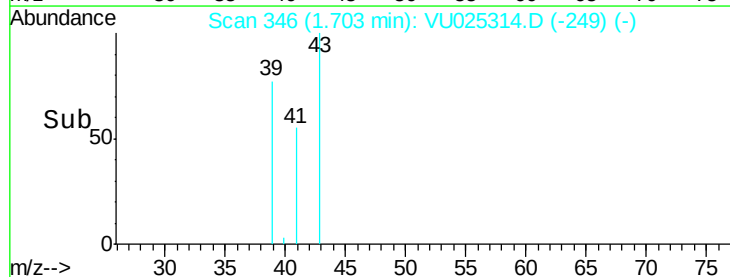
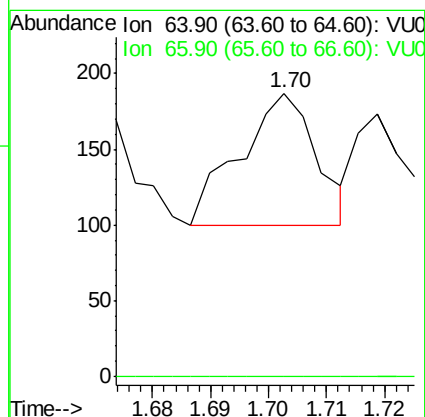
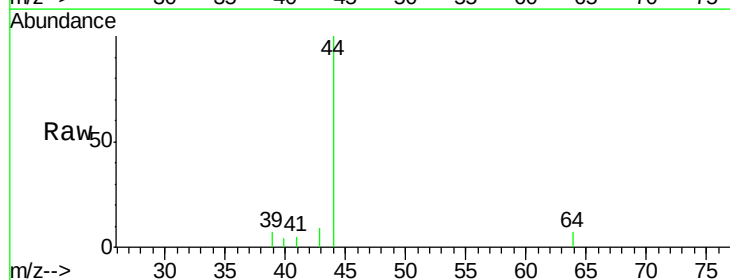
Acq: 11 Jul 2018 15:02

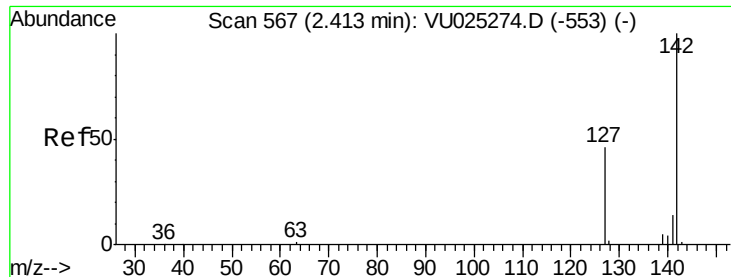
Tgt Ion: 64 Resp: 79

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.4#

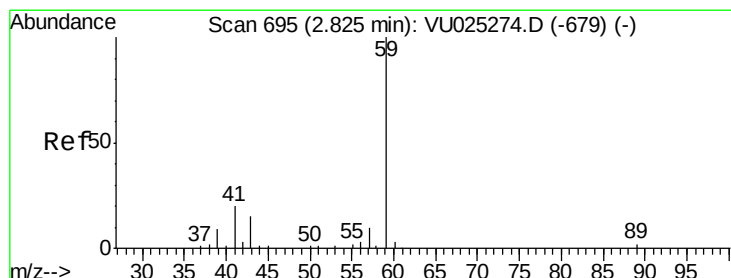
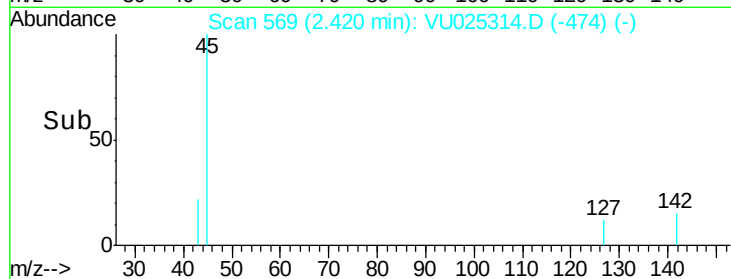
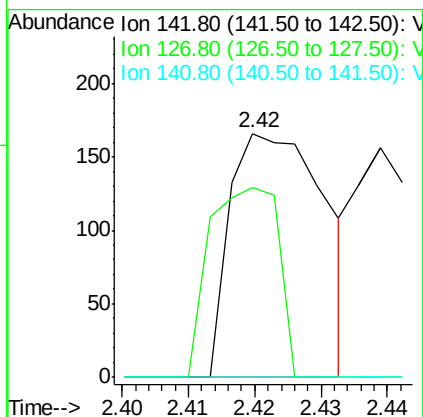
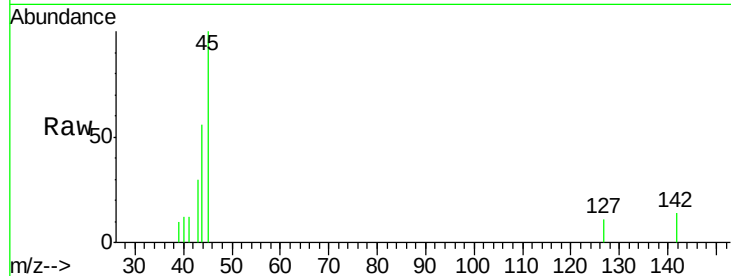




#10
Methvl Iodide
Concen: 7.76 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

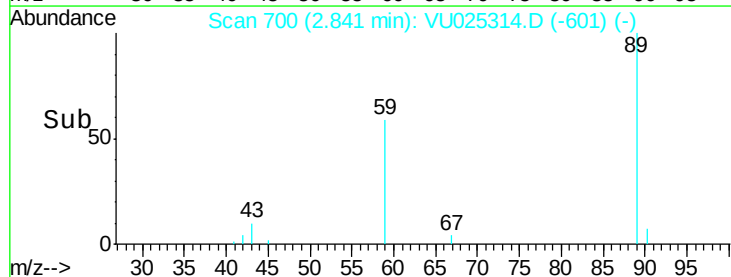
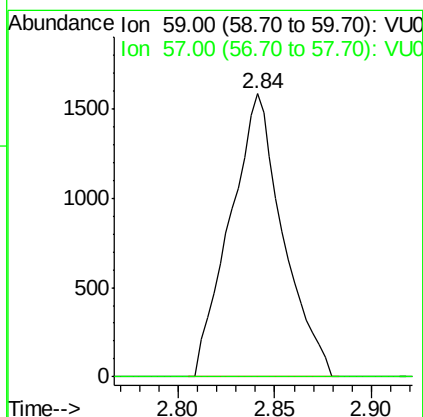
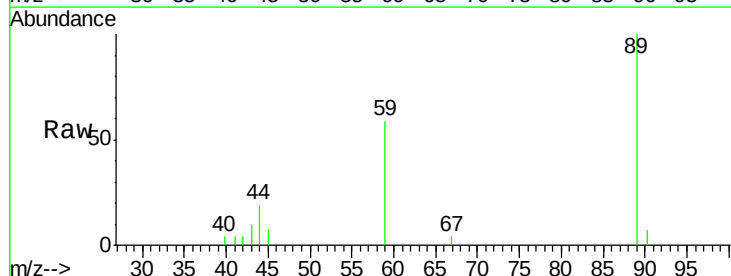
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180709

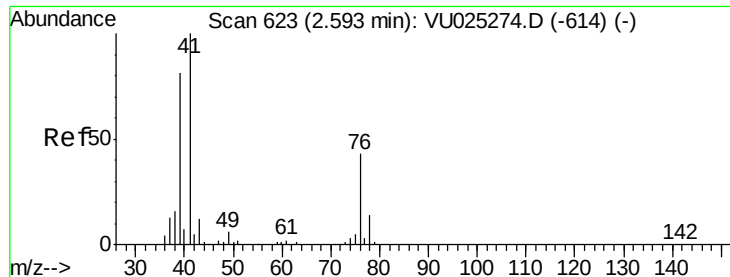
Tot Ion:142 Resp: 165
Ion Ratio Lower Upper
142 100
127 56.4 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 4.29 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

Tgt Ion: 59 Resp: 3026
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

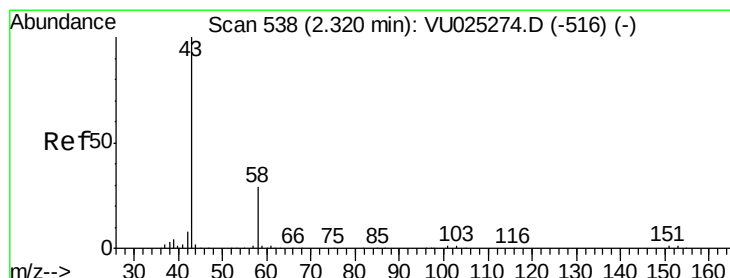
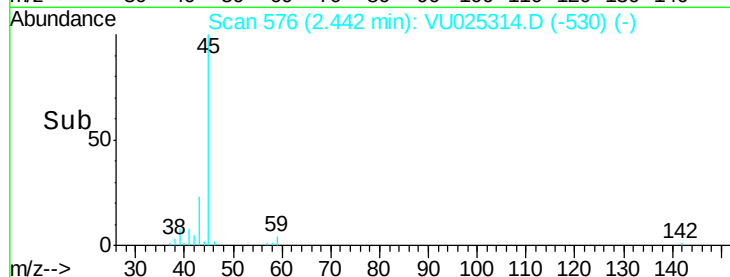
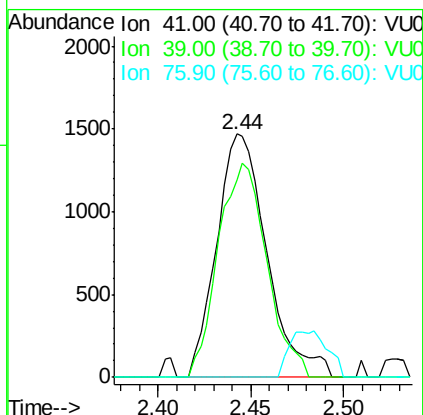
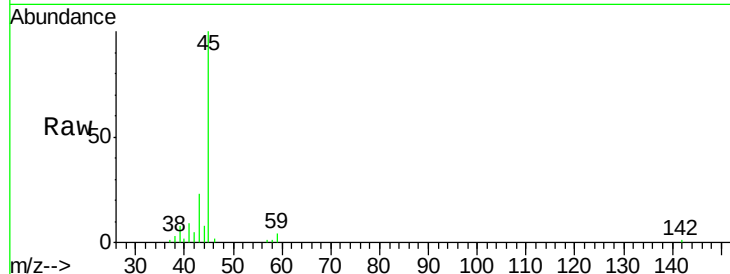




#14
Allvl chloride
Concen: 0.72 ug/l
RT: 2.44 min Scan# 576
Delta R.T. -0.15 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

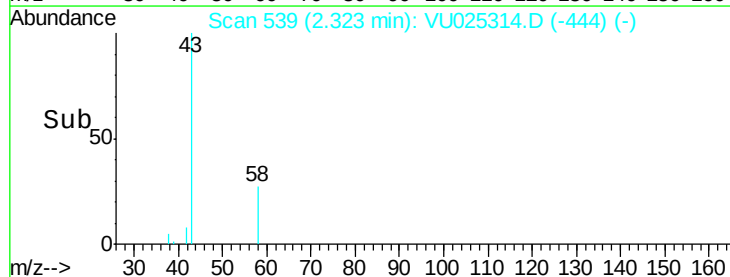
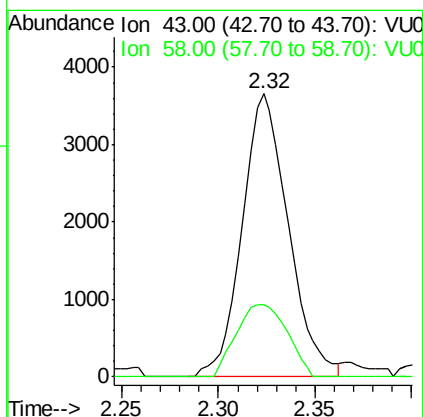
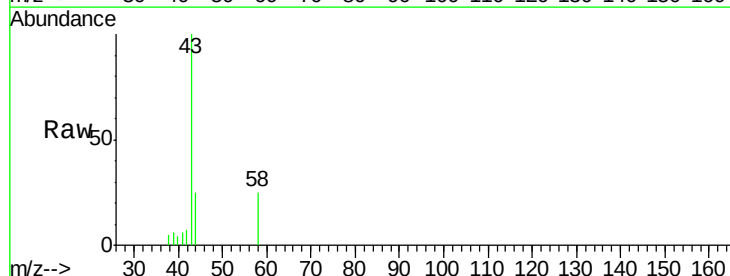
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180709

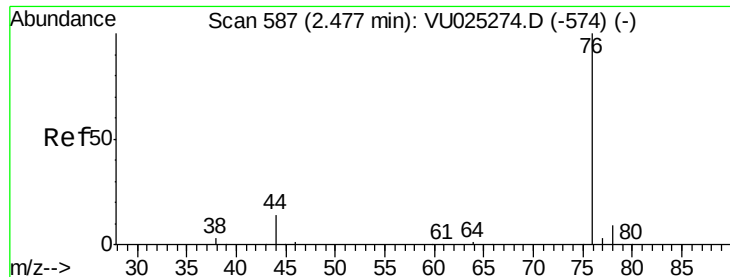
Tot Ion: 41 Resp: 2767
Ion Ratio Lower Upper
41 100
39 84.7 60.6 91.0
76 0.0 30.5 45.7#



#16
Acetone
Concen: 8.47 ug/l
RT: 2.32 min Scan# 539
Delta R.T. 0.00 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

Tgt Ion: 43 Resp: 6068
Ion Ratio Lower Upper
43 100
58 25.4 23.1 34.7





#17

Carbon Disulfide

Concen: 1.99 ug/l

RT: 2.48 min Scan# 589

Delta R.T. 0.01 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

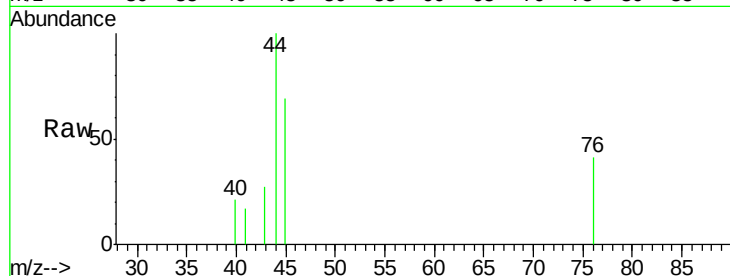
TB-01-180709

Tot Ion: 76 Resp: 406

Ion Ratio Lower Upper

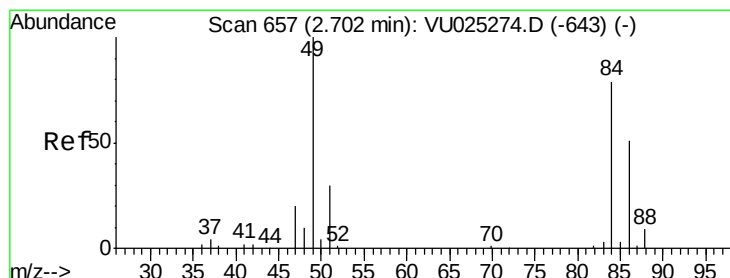
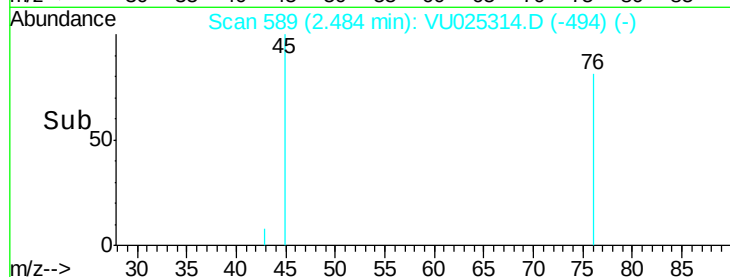
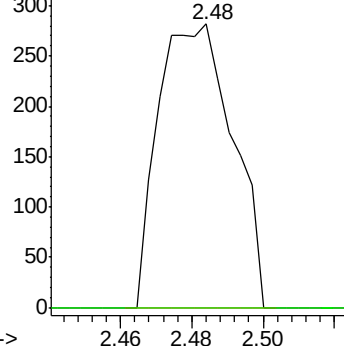
76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#20

Methylene Chloride

Concen: 1.22 ug/l

RT: 2.70 min Scan# 656

Delta R.T. -0.00 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Tgt Ion: 84 Resp: 1342

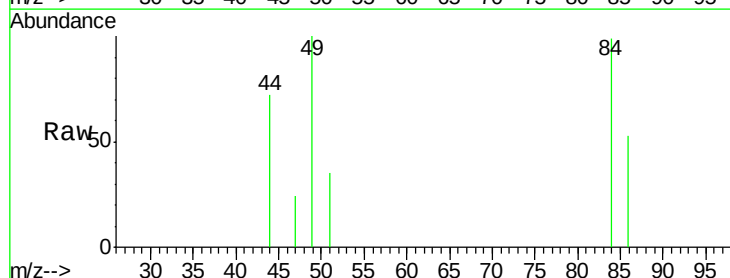
Ion Ratio Lower Upper

84 100

49 100.5 101.8 152.6#

51 34.8 30.8 46.2

86 53.3 51.9 77.9

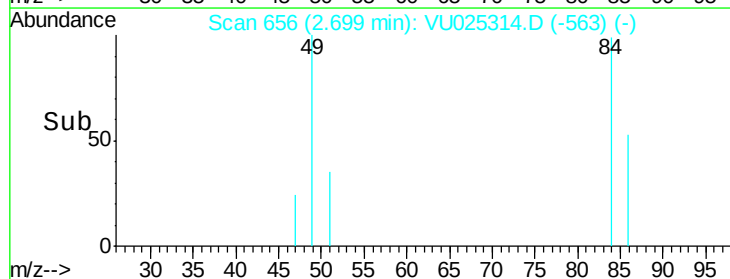
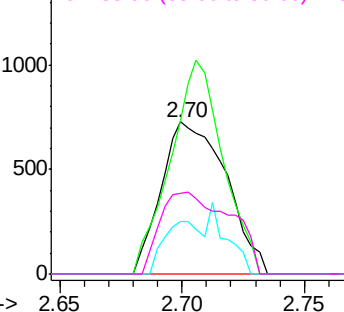


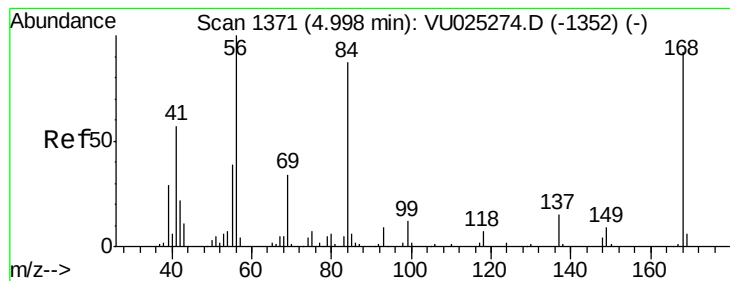
Abundance Ion 83.90 (83.60 to 84.60): VU0

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





#31

Cyclohexane

Concen: 1.77 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180709

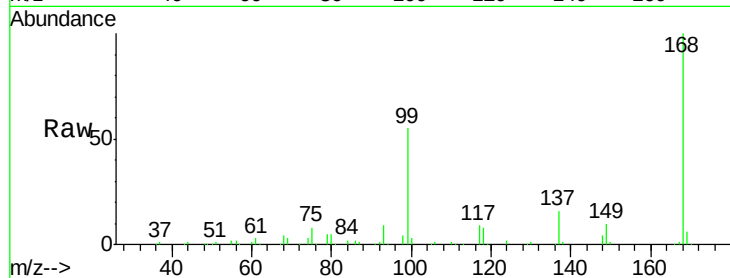
Tot Ion: 56 Resp: 4251

Ion Ratio Lower Upper

56 100

69 146.0 26.8 40.2#

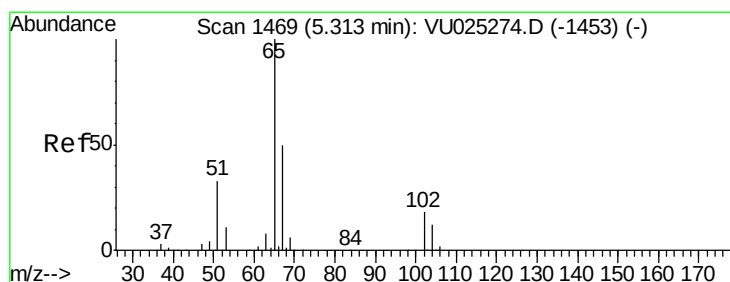
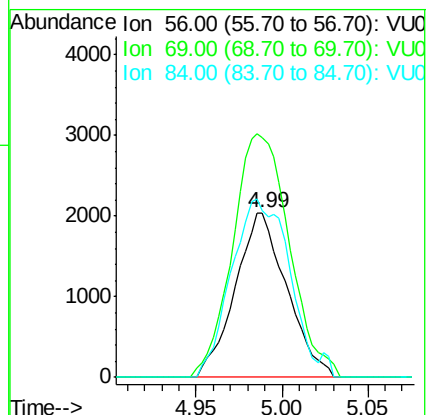
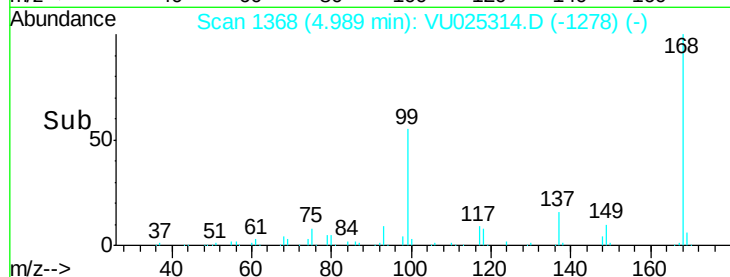
84 101.6 69.7 104.5



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: 48.56 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025314.D

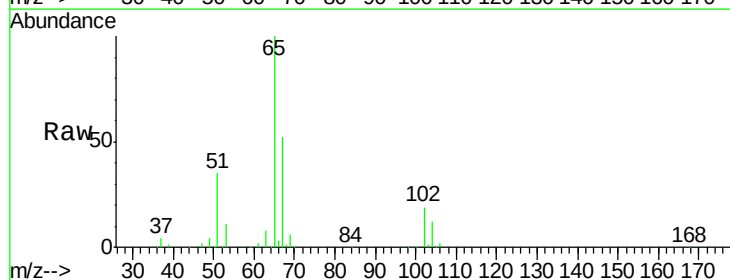
Acq: 11 Jul 2018 15:02

Tgt Ion: 65 Resp: 156988

Ion Ratio Lower Upper

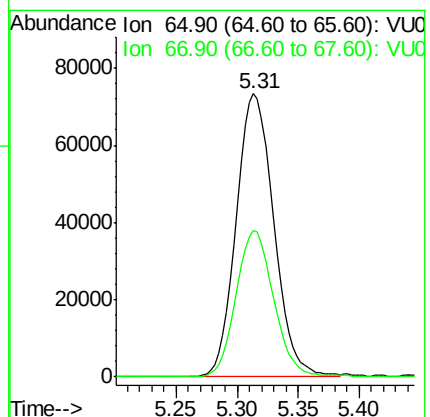
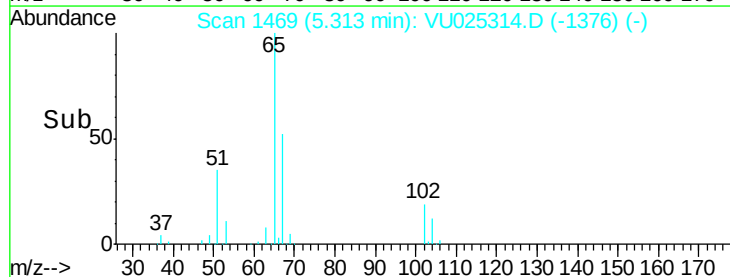
65 100

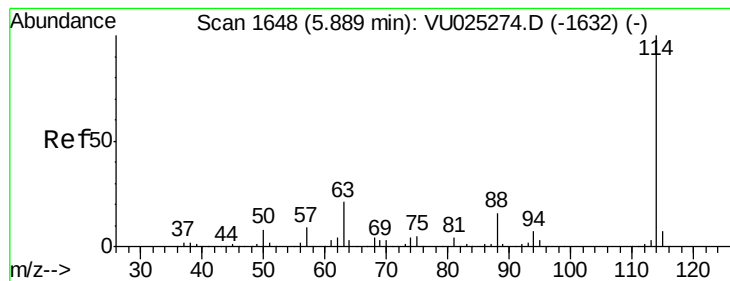
67 51.8 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180709

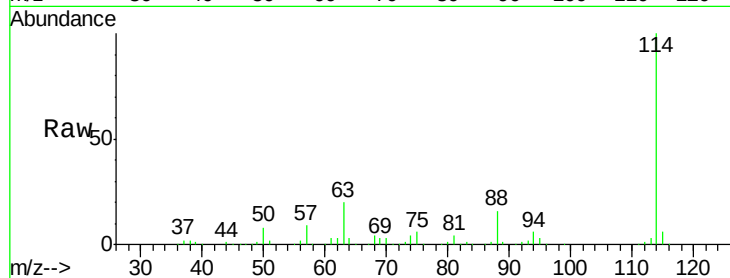
Tot Ion:114 Resp: 315354

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.6

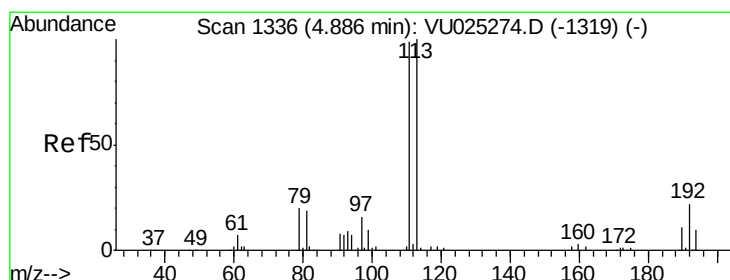
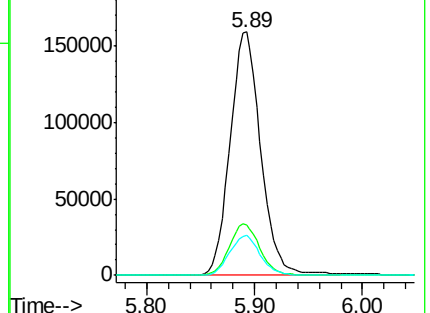
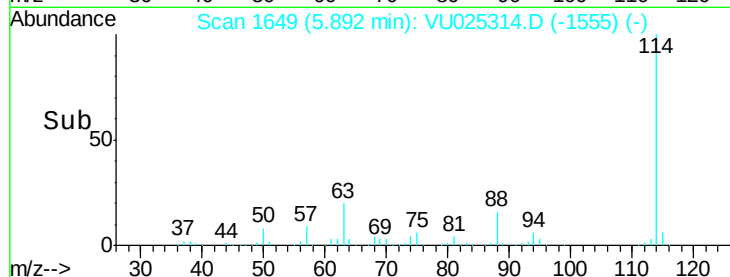
88 16.3 0.0 32.4



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: 46.51 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

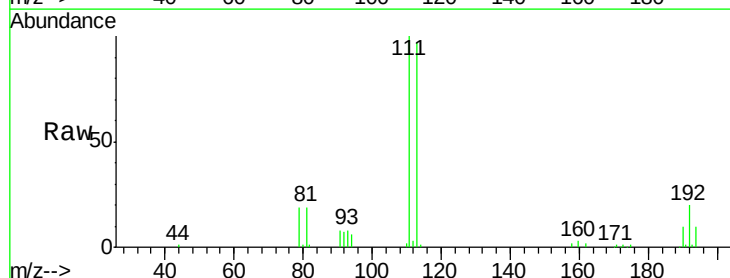
Tgt Ion:113 Resp: 123738

Ion Ratio Lower Upper

113 100

111 102.4 81.7 122.5

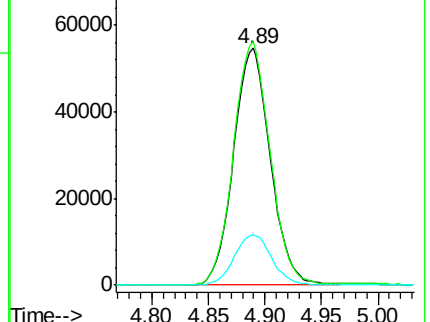
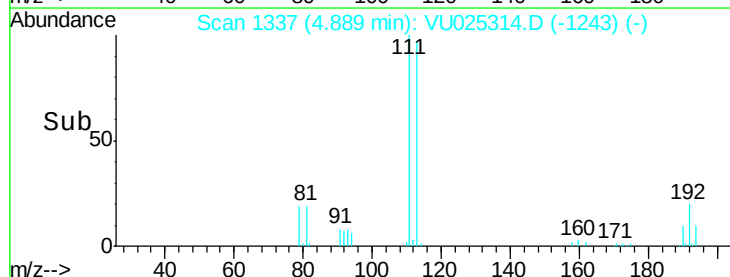
192 21.6 17.1 25.7

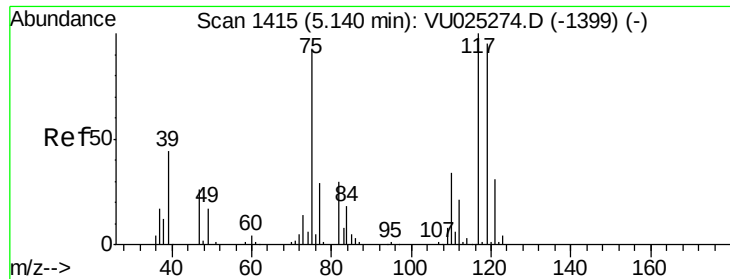


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.41 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180709

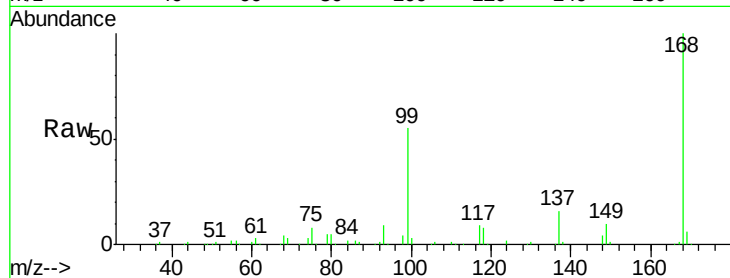
Tot Ion: 75 Resp: 15444

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

77 0.0 24.4 36.6#

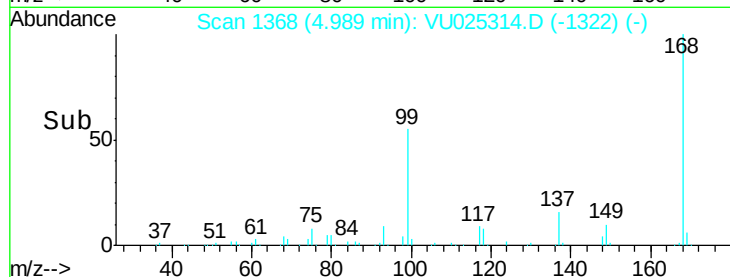


Abundance Ion 74.90 (74.60 to 75.60): VU025314.D (-1322) (-)

Ion 109.90 (109.60 to 110.60): VU025314.D (-1322) (-)

Ion 76.90 (76.60 to 77.60): VU025314.D (-1322) (-)

Time-->



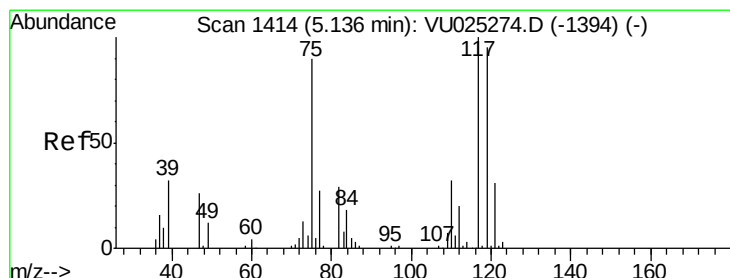
Abundance

Ion 74.90 (74.60 to 75.60): VU025314.D (-1322) (-)

Ion 109.90 (109.60 to 110.60): VU025314.D (-1322) (-)

Ion 76.90 (76.60 to 77.60): VU025314.D (-1322) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.32 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

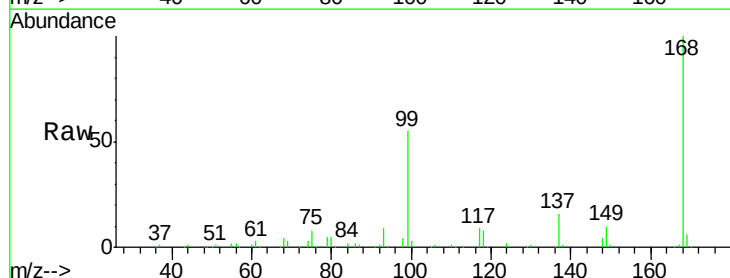
Tgt Ion: 117 Resp: 20087

Ion Ratio Lower Upper

117 100

119 4.8 75.7 113.5#

121 0.0 24.6 36.8#

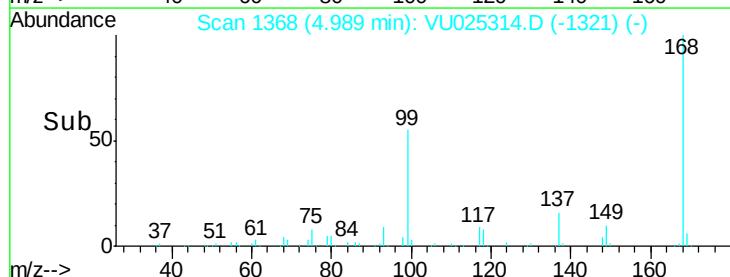


Abundance Ion 116.80 (116.50 to 117.50): VU025314.D (-1321) (-)

Ion 118.80 (118.50 to 119.50): VU025314.D (-1321) (-)

Ion 120.80 (120.50 to 121.50): VU025314.D (-1321) (-)

Time-->



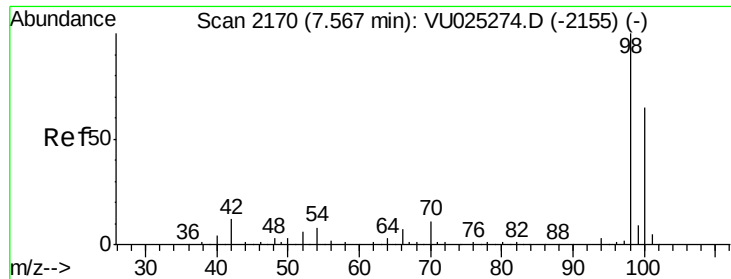
Abundance

Ion 116.80 (116.50 to 117.50): VU025314.D (-1321) (-)

Ion 118.80 (118.50 to 119.50): VU025314.D (-1321) (-)

Ion 120.80 (120.50 to 121.50): VU025314.D (-1321) (-)

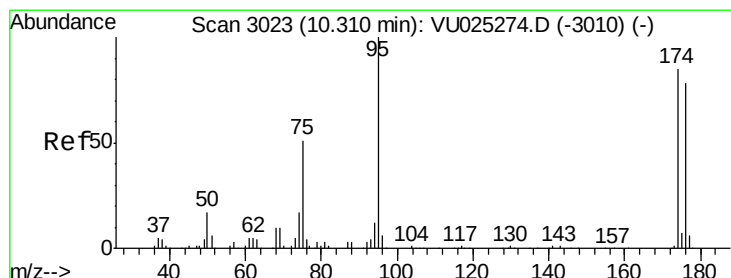
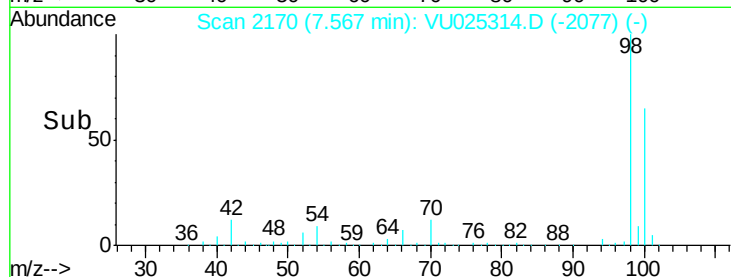
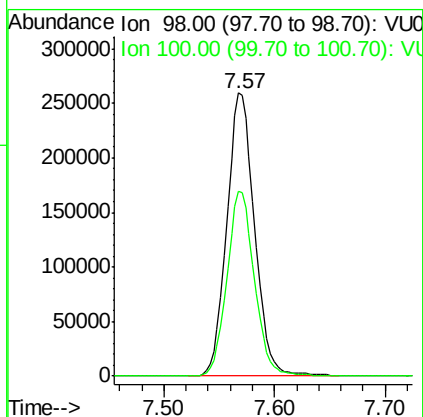
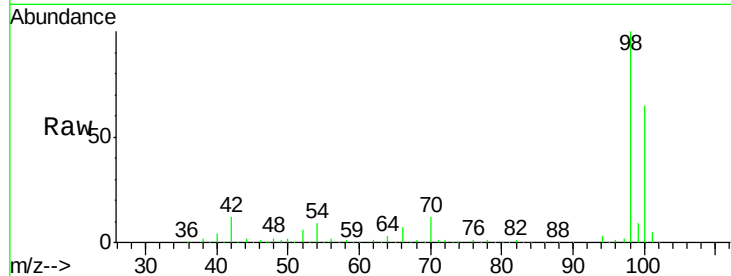
Time-->



#50
Toluene-d8
Concen: 49.65 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

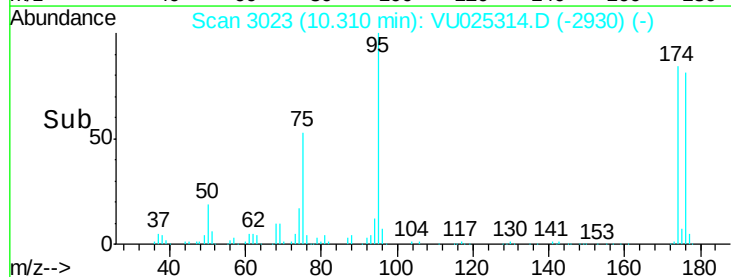
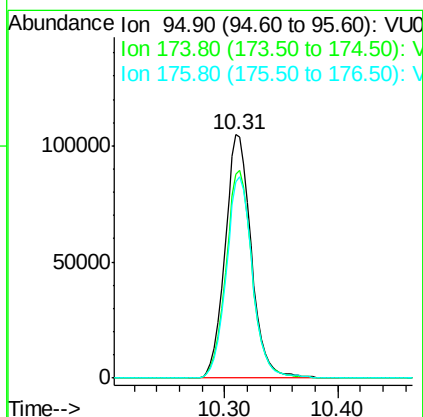
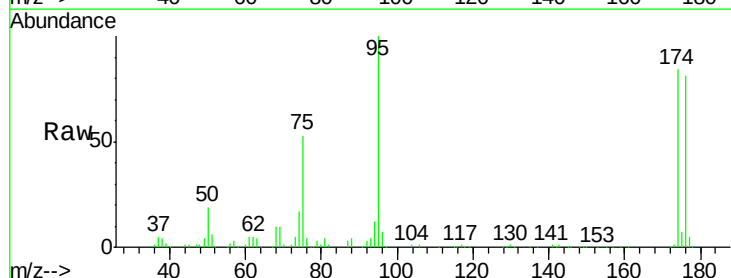
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180709

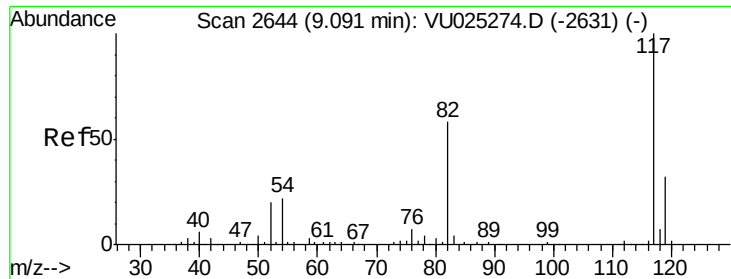
Tot Ion: 98 Resp: 452281
Ion Ratio Lower Upper
98 100
100 65.0 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 46.04 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

Tgt Ion: 95 Resp: 168849
Ion Ratio Lower Upper
95 100
174 85.3 0.0 172.2
176 82.6 0.0 162.6

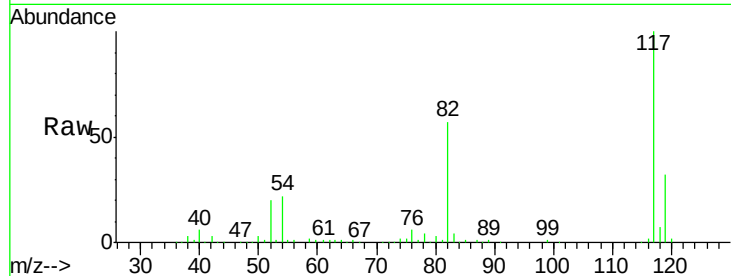




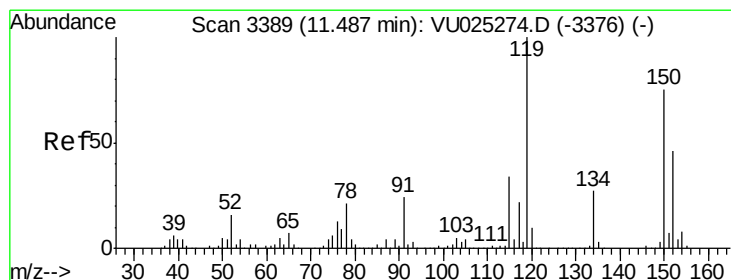
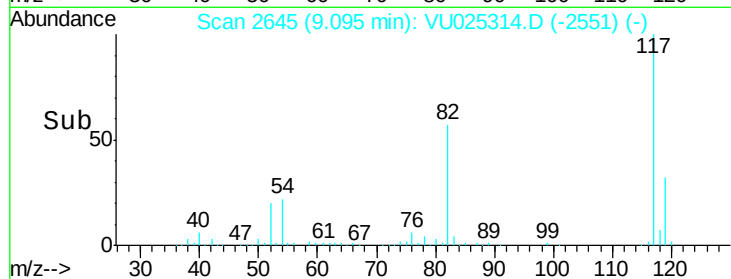
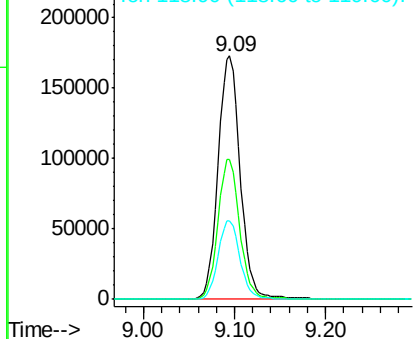
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

Instrument :
MSVOA_U
ClientSampleId :
TB-01-180709

Tot Ion:117 Resp: 292606
Ion Ratio Lower Upper
117 100
82 57.4 46.0 69.0
119 32.5 26.0 39.0

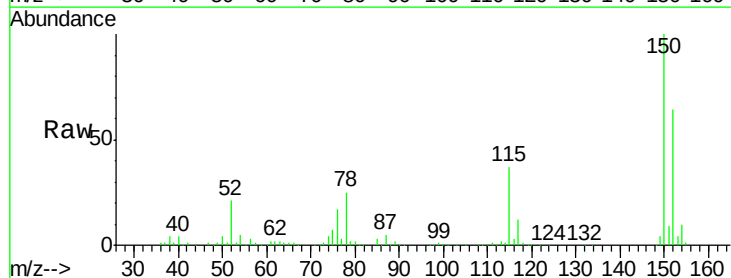


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

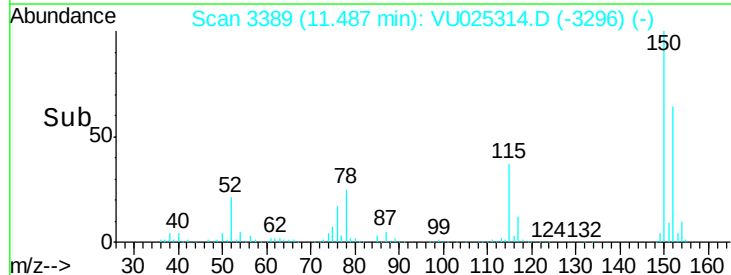
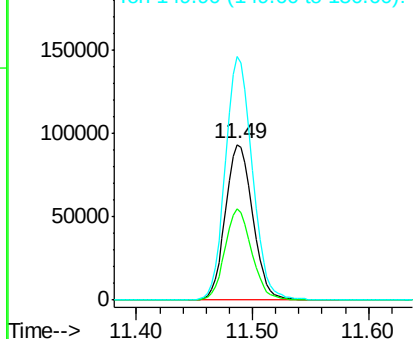


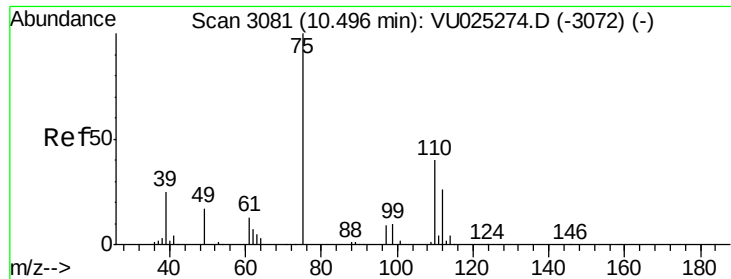
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025314.D
Acq: 11 Jul 2018 15:02

Tgt Ion:152 Resp: 152263
Ion Ratio Lower Upper
152 100
115 57.3 40.1 120.3
150 154.2 0.0 351.4



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: 28.49 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

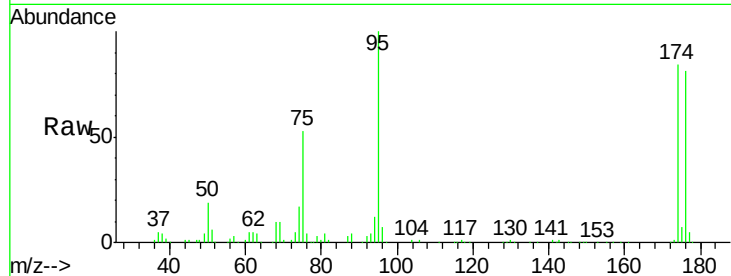
TB-01-180709

Tot Ion: 75 Resp: 88330

Ion Ratio Lower Upper

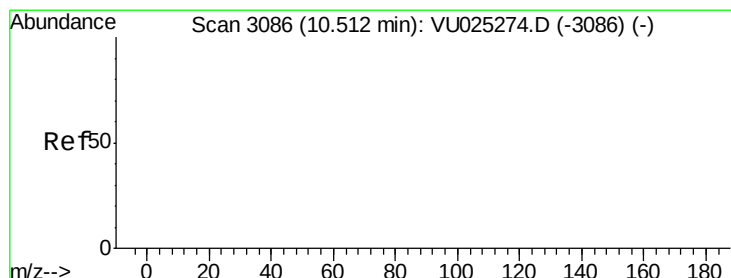
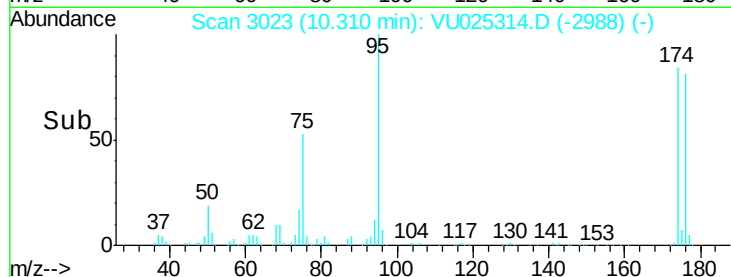
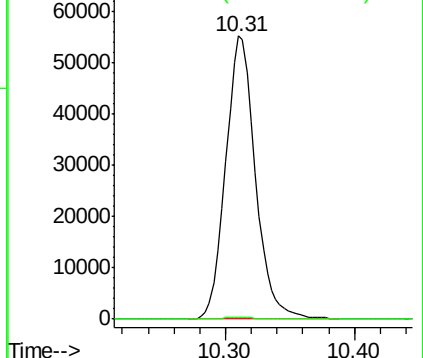
75 100

77 0.7 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 72.82 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

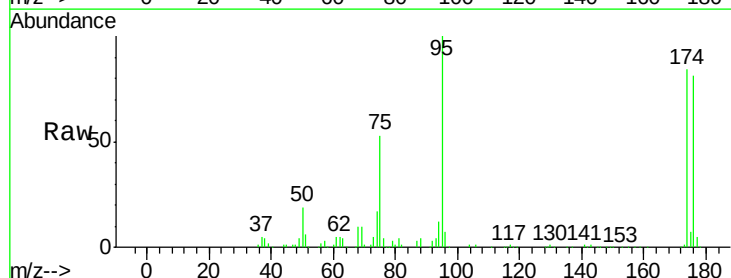
Tgt Ion: 75 Resp: 88330

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

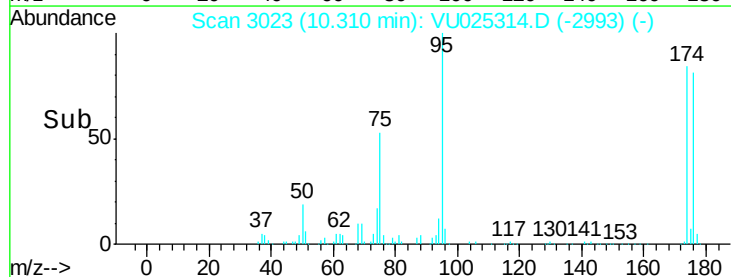
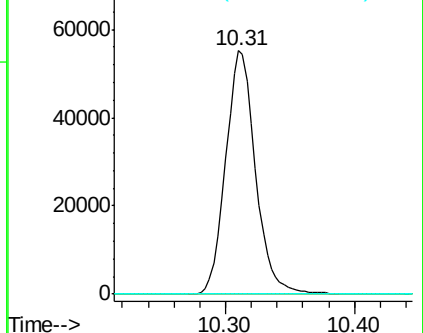
89 0.0 0.0 0.0

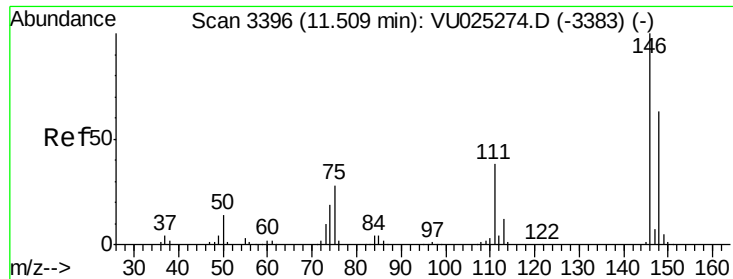


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

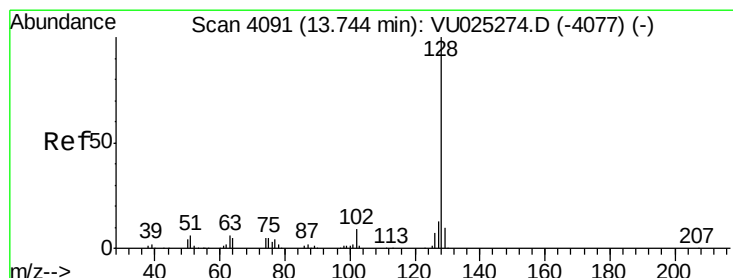
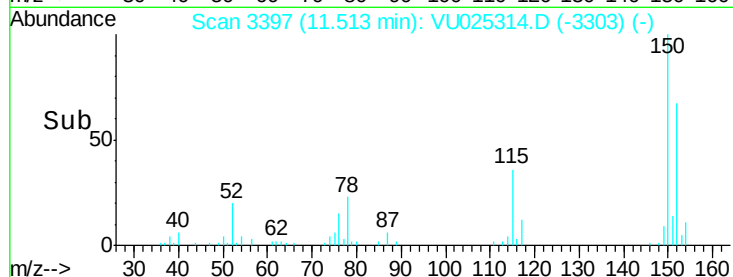
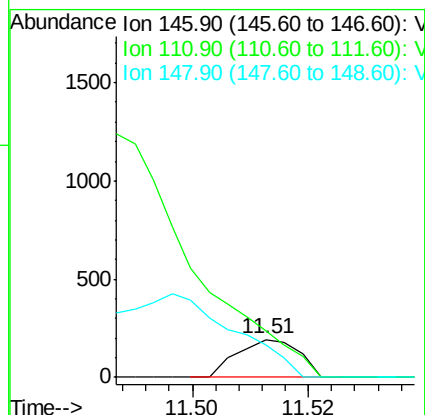
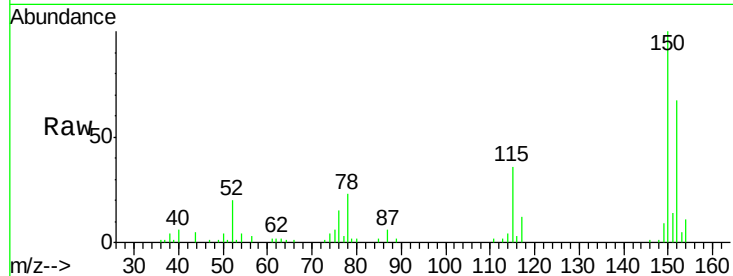




#88
 1,4-Dichlorobenzene
 Concen: 1.51 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025314.D
 Acq: 11 Jul 2018 15:02

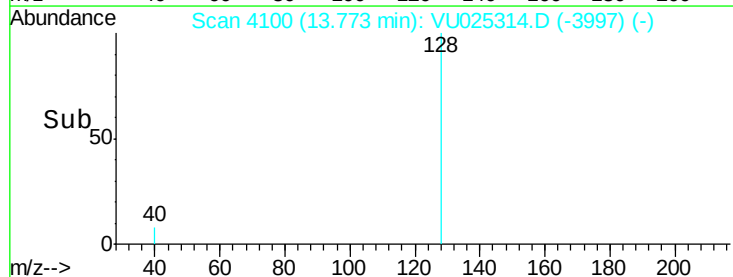
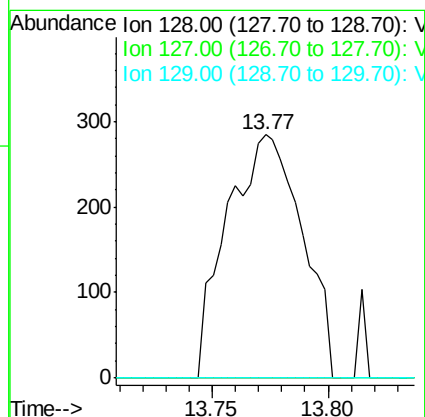
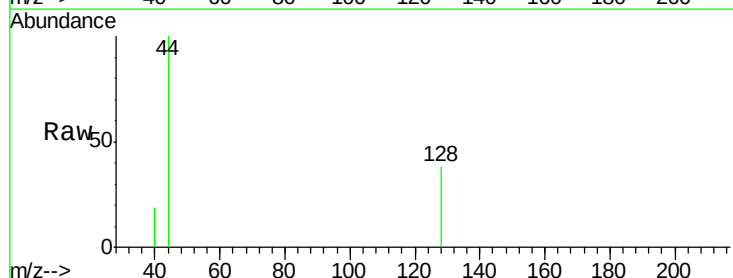
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-180709

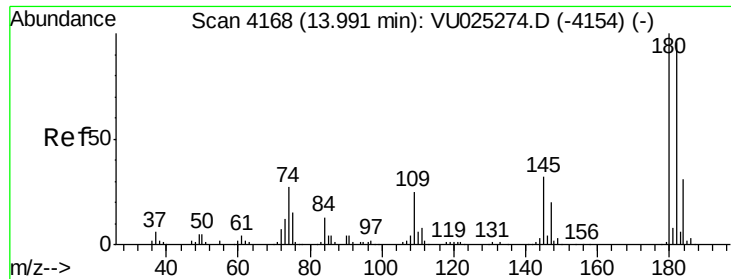
Tot Ion:146 Resp: 142
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.4 58.1#
 148 0.0 31.7 95.1#



#95
 Naphthalene
 Concen: 2.47 ug/l
 RT: 13.77 min Scan# 4100
 Delta R.T. 0.03 min
 Lab File: VU025314.D
 Acq: 11 Jul 2018 15:02

Tgt Ion:128 Resp: 638
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.3 12.5#





#96

1,2,3-Trichlorobenzene

Concen: 2.55 ug/l

RT: 14.00 min Scan# 4172

Delta R.T. 0.01 min

Lab File: VU025314.D

Acq: 11 Jul 2018 15:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180709

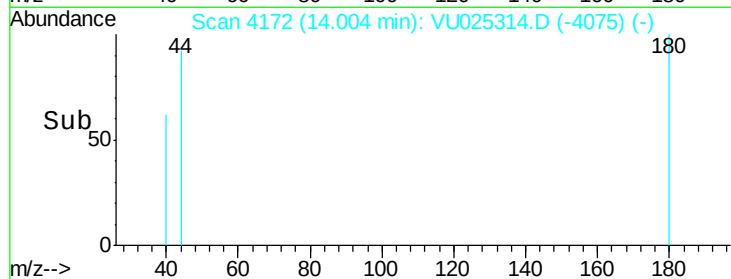
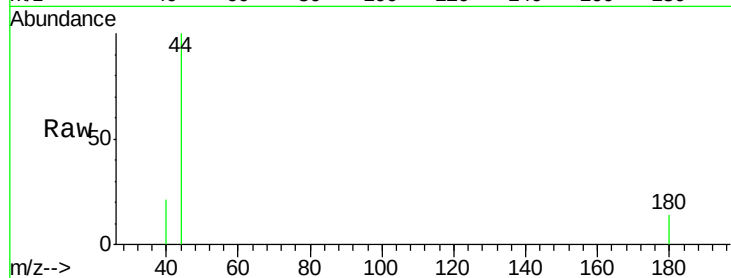
Tot Ion:180 Resp: 79

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 0.0 15.6 46.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

14.00

150

100

50

0

Time--> 13.99 14.00 14.01 14.02