

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071118\
 Data File : VU025321.D
 Acq On : 11 Jul 2018 17:54
 Operator : MD/SY
 Sample : J3921-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 KY038PS034-180709

Quant Time: Jul 12 03:13:15 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	196126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	293788	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	272094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	137963	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	147031	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
35) Dibromofluoromethane	4.89	113	113618	45.84	ug/l	0.00
Spiked Amount			Recovery	=	91.68%	
50) Toluene-d8	7.57	98	421864	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	10.31	95	154744	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

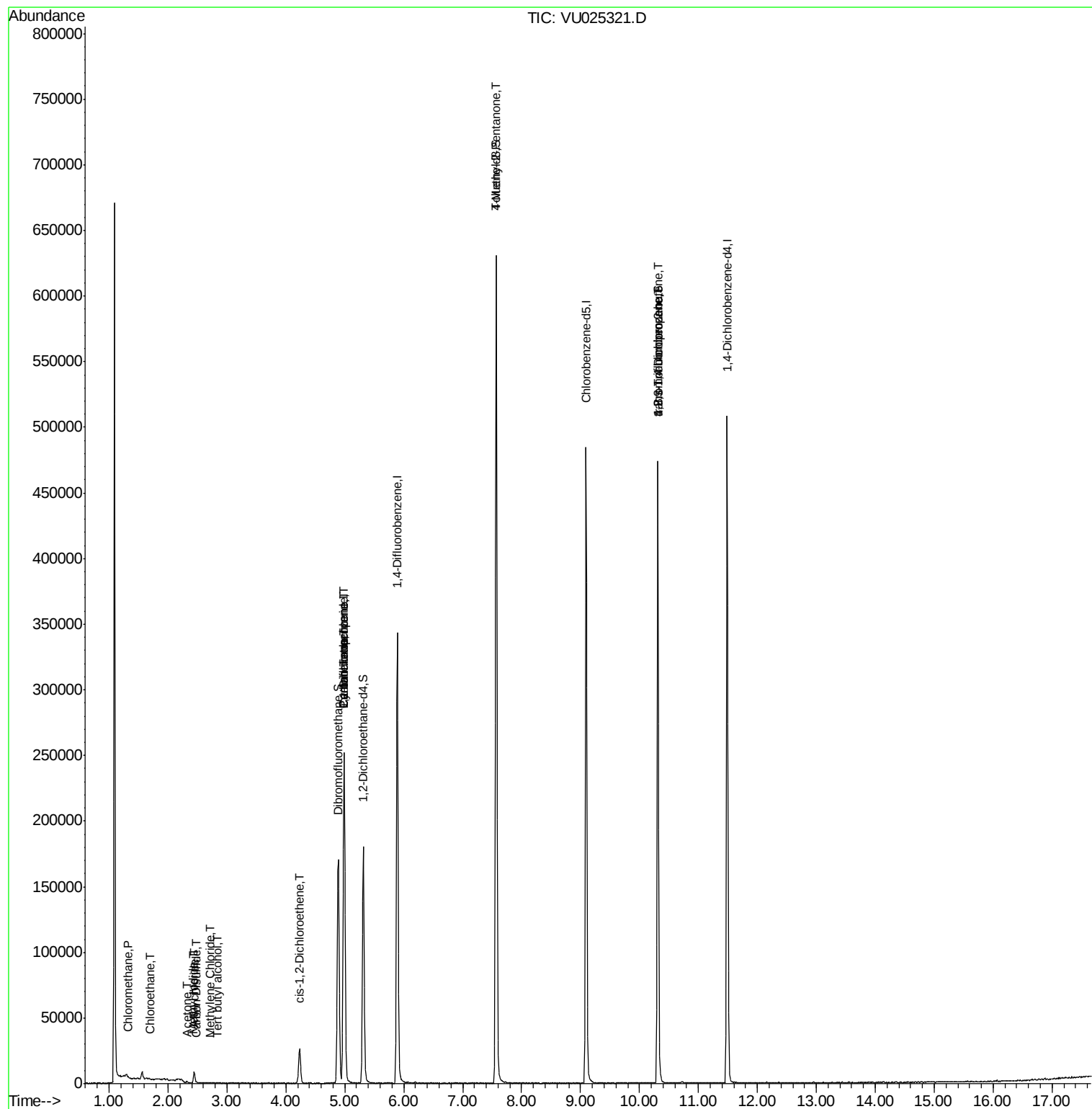
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	662	0.89	ug/l	94
5) Bromomethane	1.63	94	216	Below Cal	#	67
6) Chloroethane	1.70	64	20	0.30	ug/l	43
10) Methyl Iodide	2.42	142	71	7.73	ug/l	39
11) Tert butyl alcohol	2.83	59	195	0.29	ug/l	73
14) Allyl chloride	2.44	41	966	0.27	ug/l	74
16) Acetone	2.33	43	982	5.49	ug/l	79
17) Carbon Disulfide	2.48	76	117	1.95	ug/l	74
20) Methylene Chloride	2.71	84	251	0.80	ug/l	66
27) cis-1,2-Dichloroethene	4.23	96	15017	5.71	ug/l	91
31) Cyclohexane	4.99	56	3980	1.76	ug/l	10
36) 1,1-Dichloropropene	4.99	75	14855	4.55	ug/l	49
38) Carbon Tetrachloride	4.99	117	18089	5.15	ug/l	15
51) 4-Methyl-2-Pentanone	7.57	43	1689	0.45	ug/l	1
76) 1,2,3-Trichloropropane	10.31	75	82333	29.28	ug/l	36
81) trans-1,4-Dichloro-2-buten	10.31	75	82333	74.91	ug/l	100

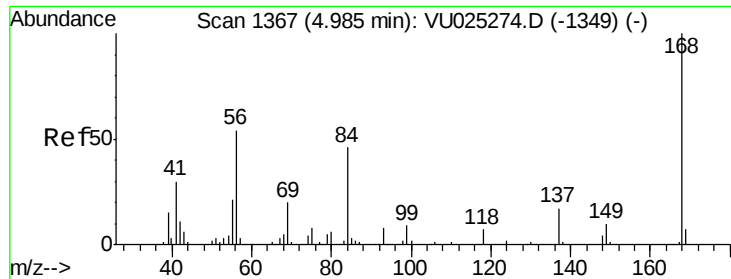
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

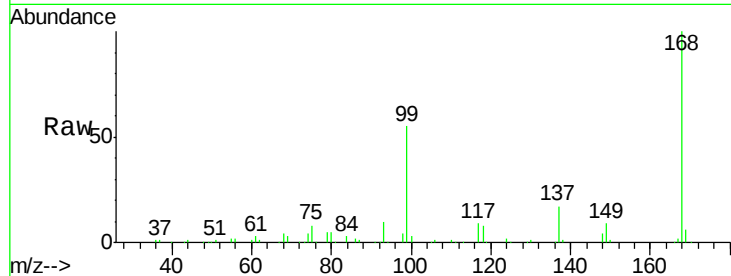
KY038PS034-180709

Tot Ion:168 Resp: 196126

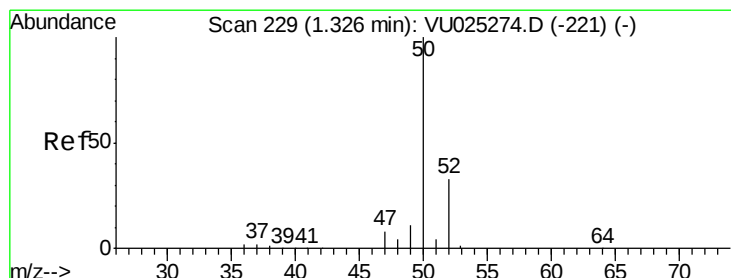
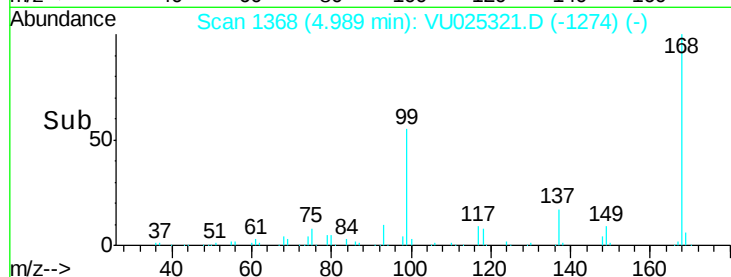
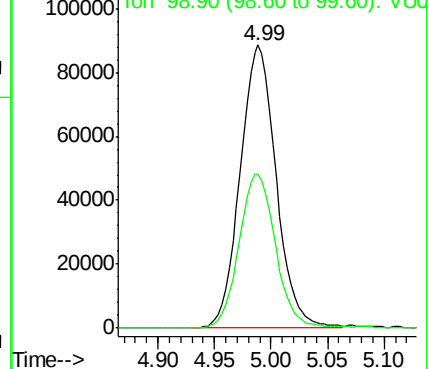
Ion Ratio Lower Upper

168 100

99 54.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025321.D (-1274) (-)



#3

Chloromethane

Concen: 0.89 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025321.D

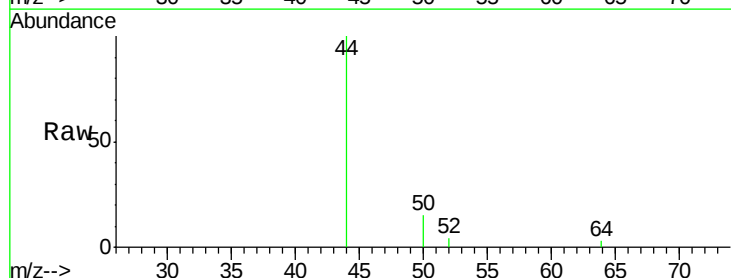
Acq: 11 Jul 2018 17:54

Tgt Ion: 50 Resp: 662

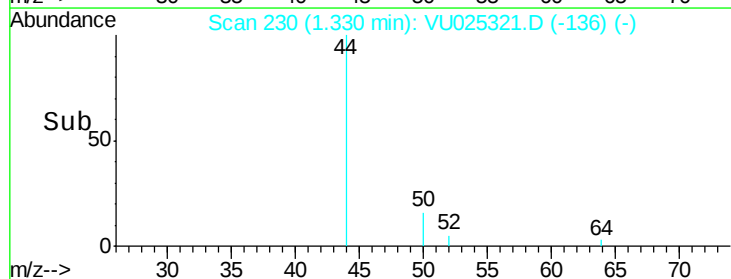
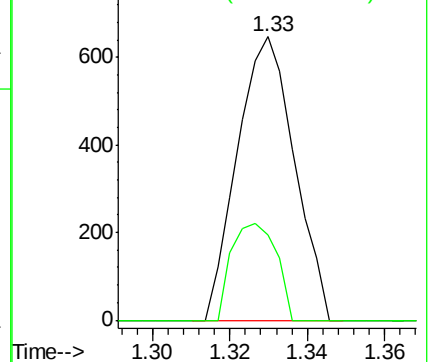
Ion Ratio Lower Upper

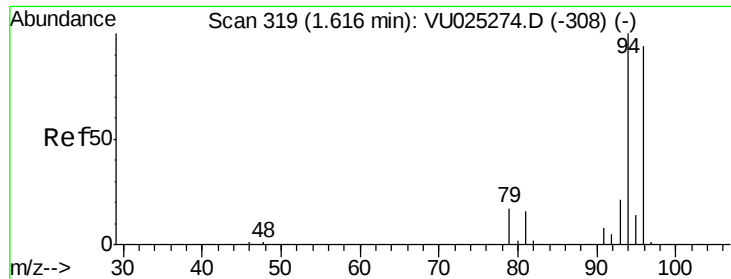
50 100

52 30.0 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025321.D (-136) (-)

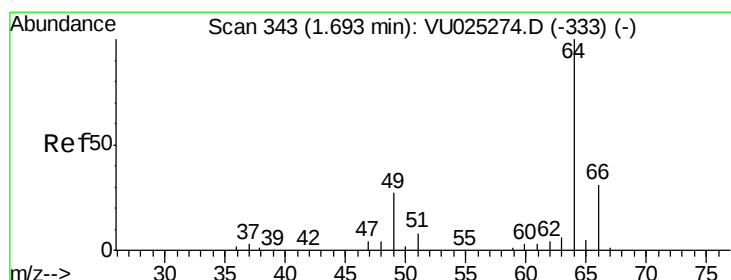
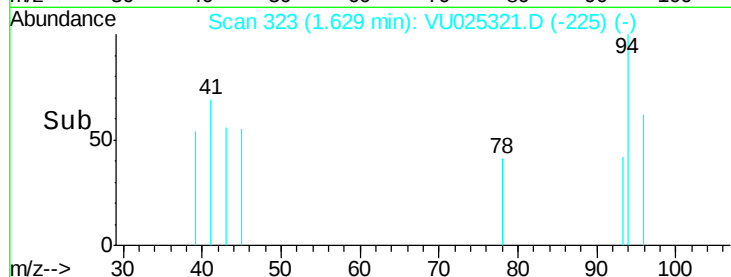
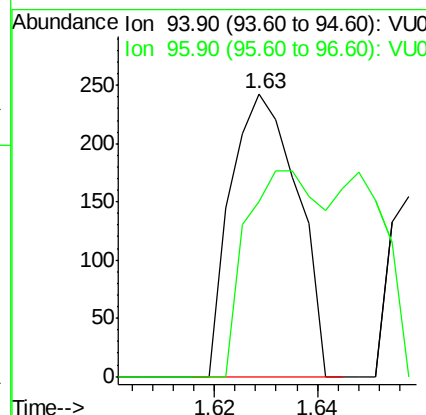
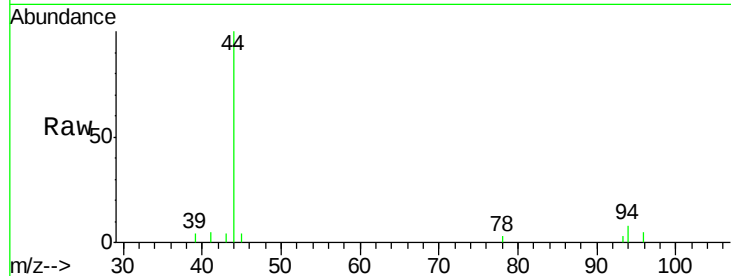




#5
Bromomethane
Concen: Below Cal
RT: 1.63 min Scan# 323
Delta R.T. 0.01 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

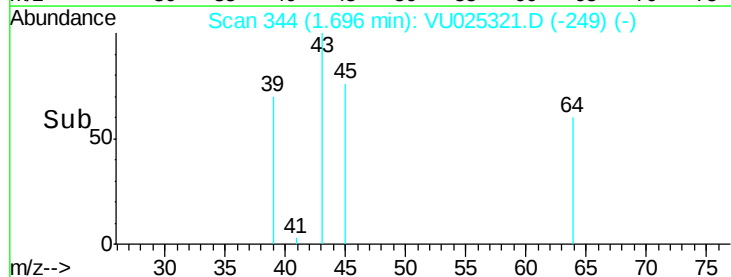
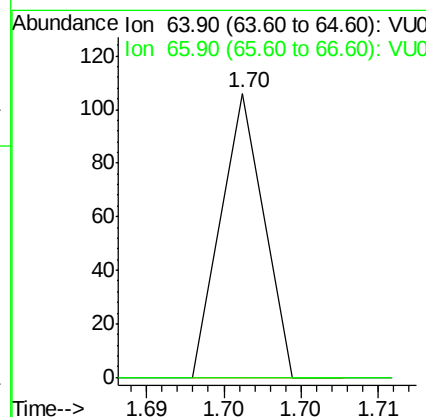
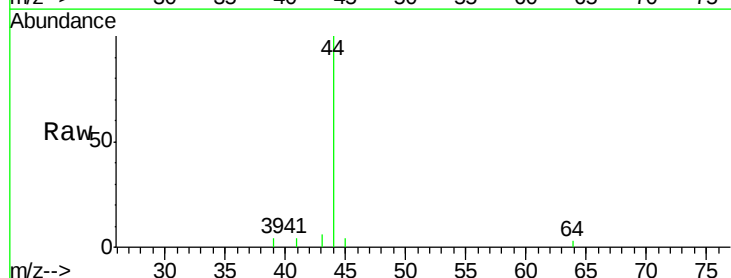
Instrument :
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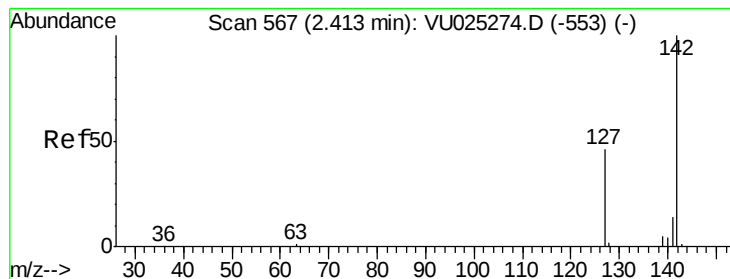
Tot Ion: 94 Resp: 216
Ion Ratio Lower Upper
94 100
96 61.7 75.0 112.4#



#6
Chloroethane
Concen: 0.30 ug/l
RT: 1.70 min Scan# 344
Delta R.T. 0.00 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

Tgt Ion: 64 Resp: 20
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#





#10

Methvl Iodide

Concen: 7.73 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

KY038PS034-180709

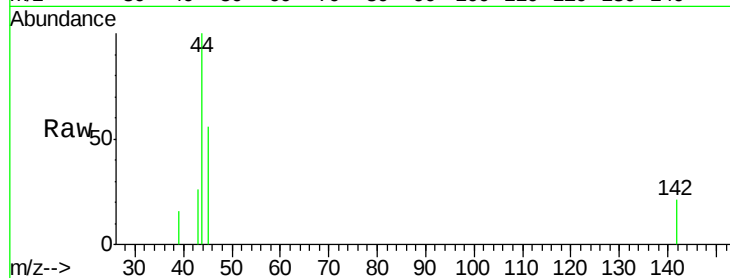
Tot Ion:142 Resp: 71

Ion Ratio Lower Upper

142 100

127 0.0 36.5 54.7#

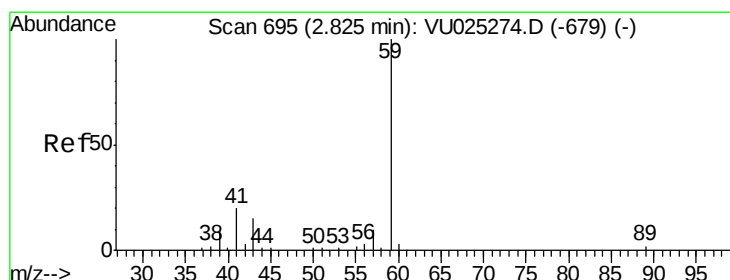
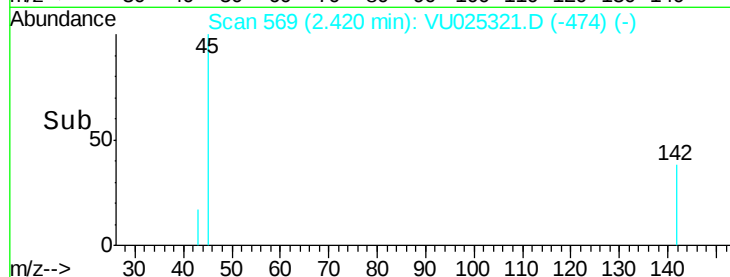
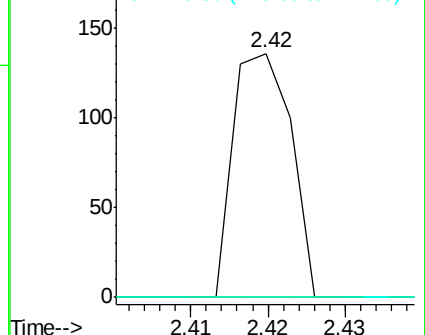
141 0.0 11.4 17.2#



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: 0.29 ug/l

RT: 2.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VU025321.D

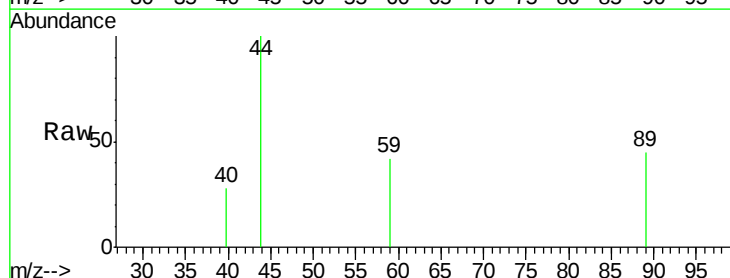
Acq: 11 Jul 2018 17:54

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

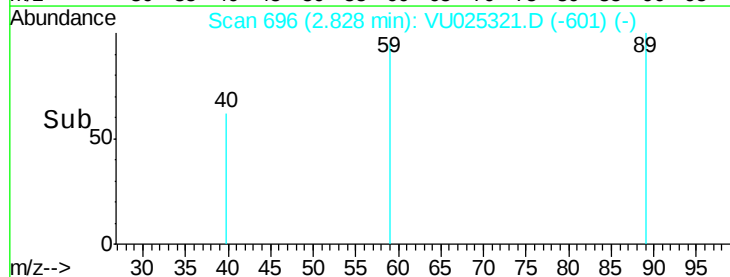
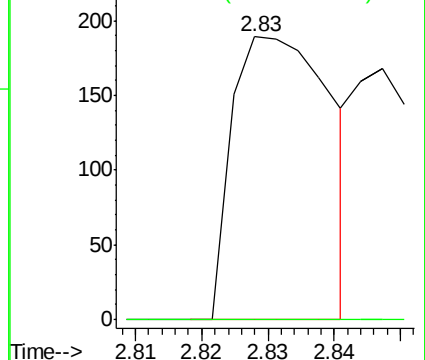
59 100

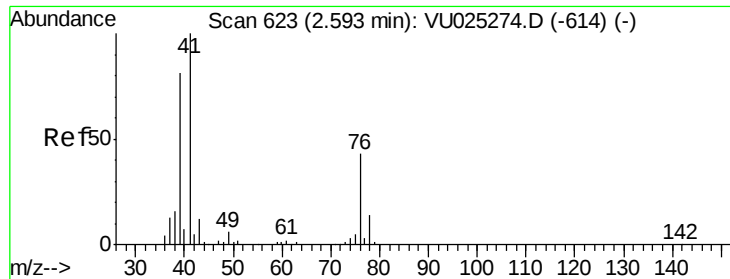
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

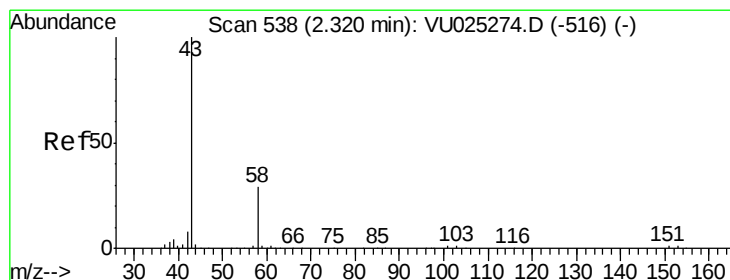
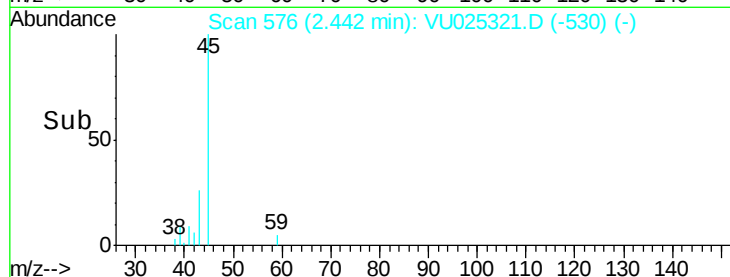
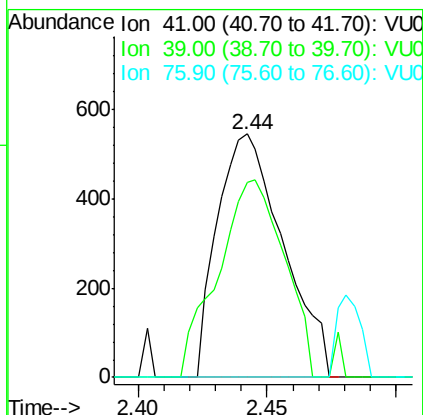
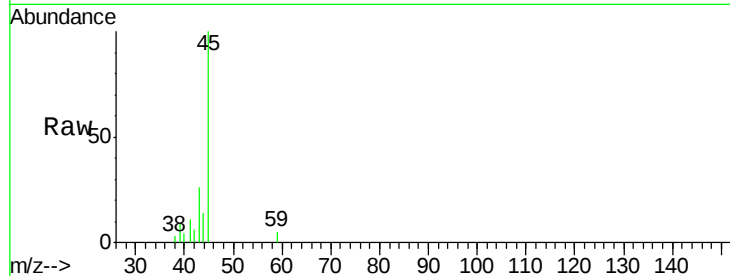




#14
Allvl chloride
Concen: 0.27 ug/l
RT: 2.44 min Scan# 576
Delta R.T. -0.15 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

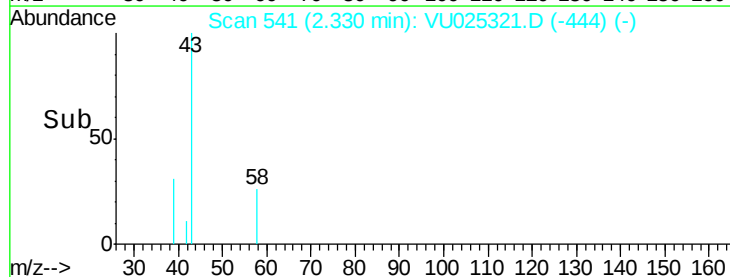
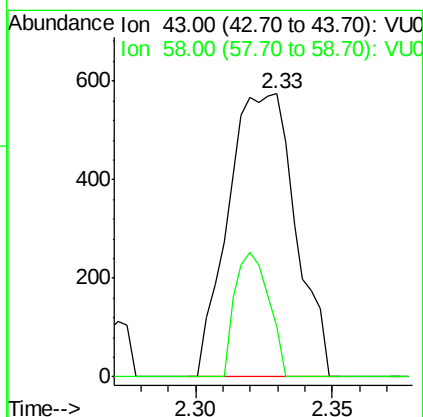
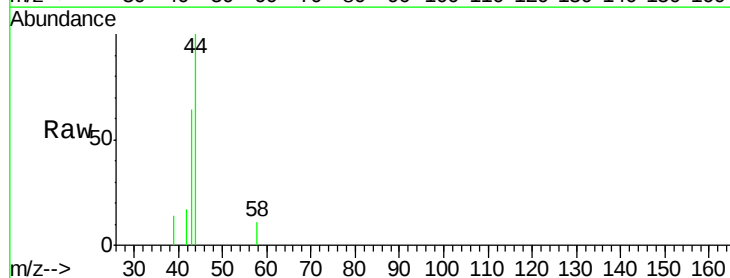
Instrument :
MSVOA_U
ClientSampleId :
KY038PS034-180709

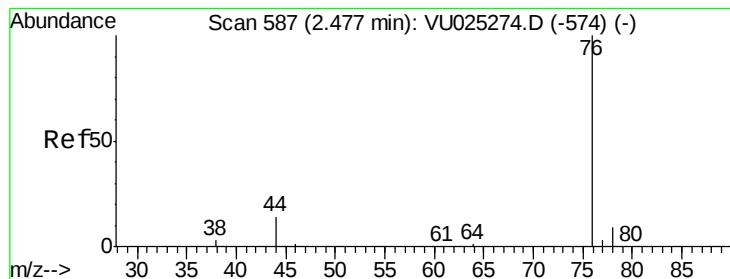
Tot Ion: 41 Resp: 966
Ion Ratio Lower Upper
41 100
39 82.0 60.6 91.0
76 0.0 30.5 45.7#



#16
Acetone
Concen: 5.49 ug/l
RT: 2.33 min Scan# 541
Delta R.T. 0.01 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

Tgt Ion: 43 Resp: 982
Ion Ratio Lower Upper
43 100
58 17.8 23.1 34.7#





#17

Carbon Disulfide

Concen: 1.95 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

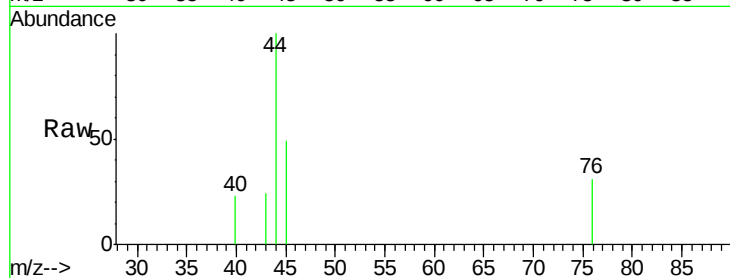
KY038PS034-180709

Tot Ion: 76 Resp: 117

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

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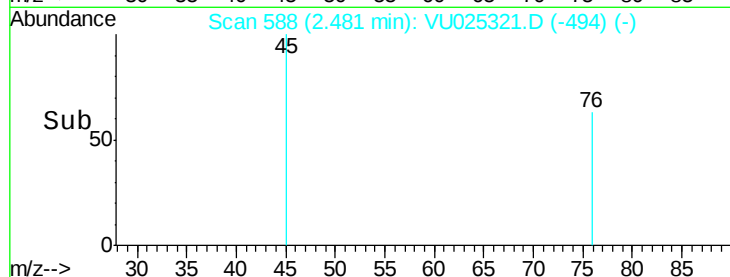
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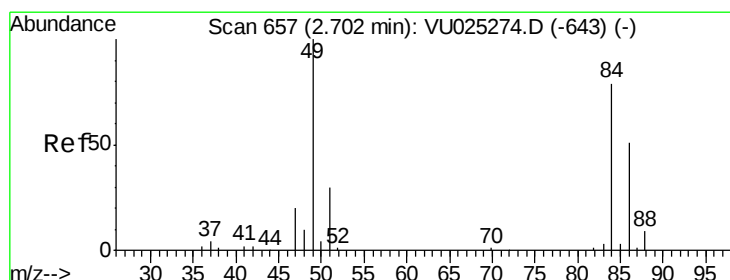
2.48

2.48

2.48



Time--> 2.46 2.47 2.48 2.49 2.50



#20

Methylene Chloride

Concen: 0.80 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Tgt Ion: 84 Resp: 251

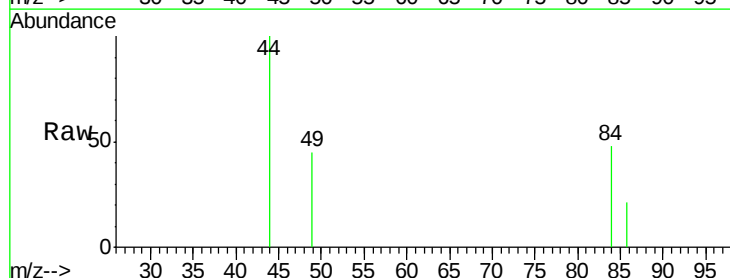
Ion Ratio Lower Upper

84 100

49 94.3 101.8 152.6#

51 0.0 30.8 46.2#

86 44.3 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

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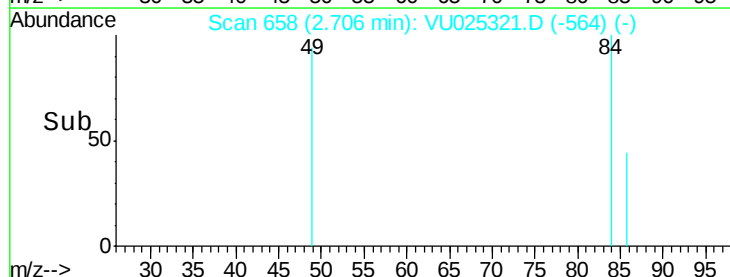
2.71

2.71

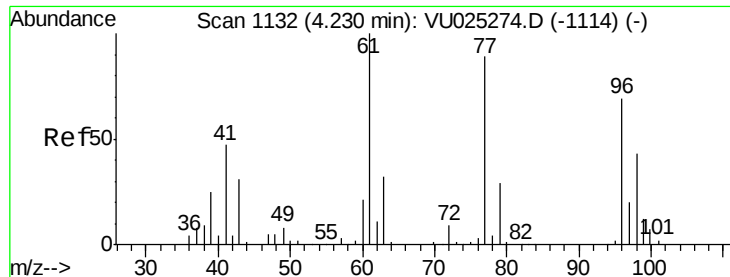
2.71

2.71

2.71



Time--> 2.68 2.70 2.72



#27

cis-1,2-Dichloroethene

Concen: 5.71 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

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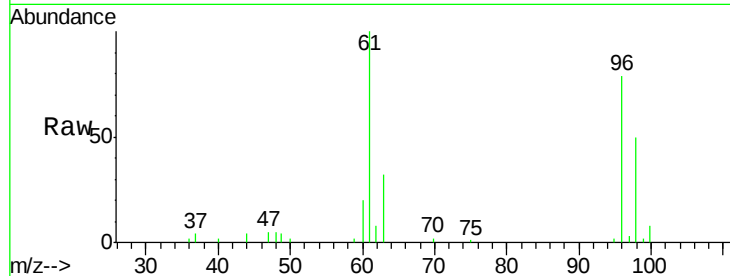
Tot Ion: 96 Resp: 15017

Ion Ratio Lower Upper

96 100

61 134.8 0.0 299.8

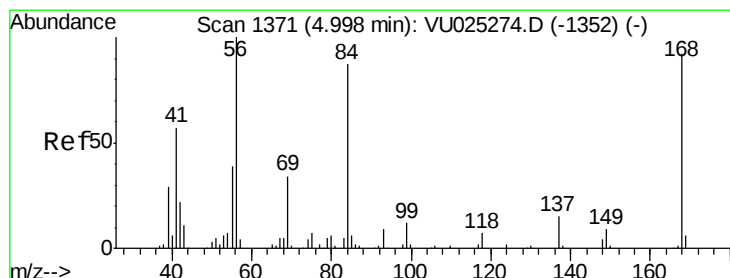
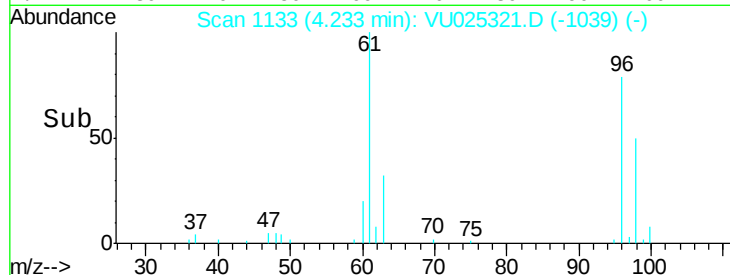
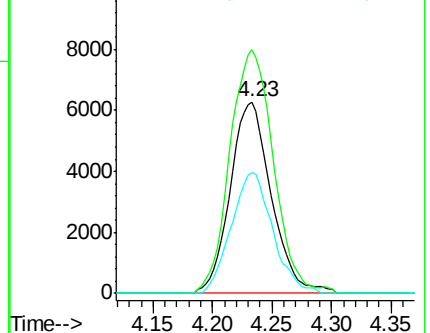
98 63.3 0.0 128.6



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: 1.76 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

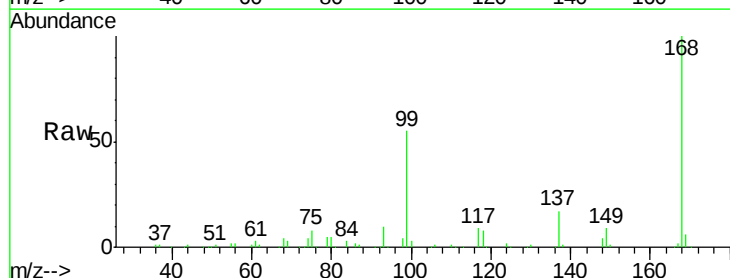
Tgt Ion: 56 Resp: 3980

Ion Ratio Lower Upper

56 100

69 161.1 26.8 40.2#

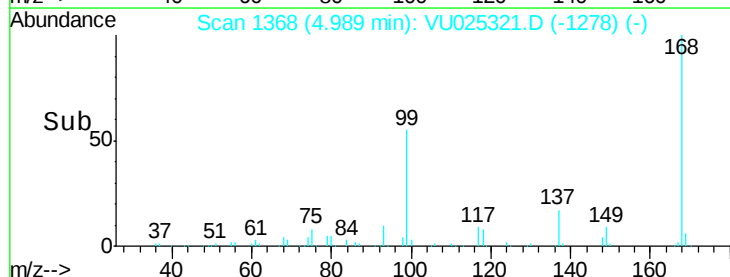
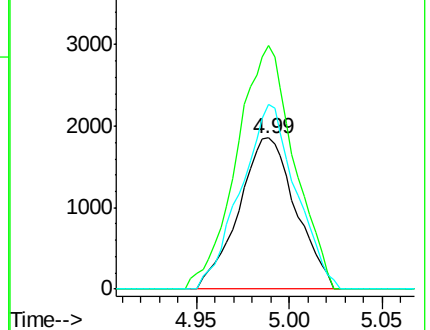
84 122.4 69.7 104.5#

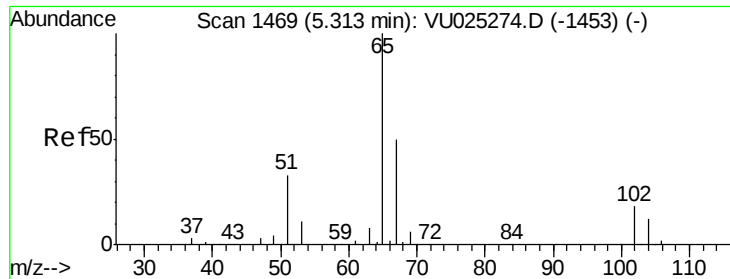


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#33

1,2-Dichloroethane-d4

Concen: 48.25 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

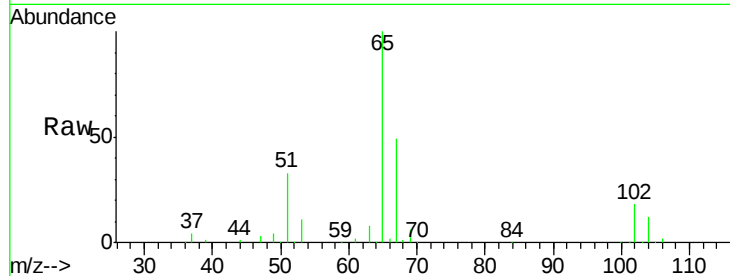
KY038PS034-180709

Tot Ion: 65 Resp: 147031

Ion Ratio Lower Upper

65 100

67 50.1 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025321.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU025321.D (-1376) (-)

5.31

80000

60000

40000

20000

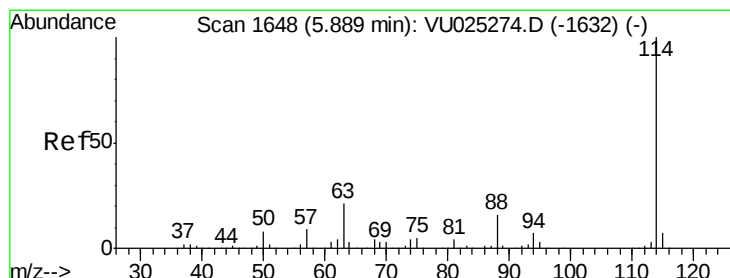
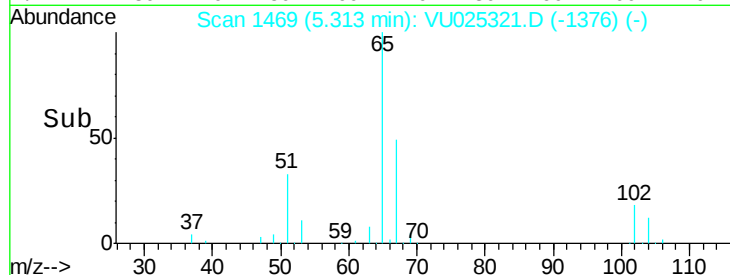
0

Time-->

5.20

5.30

5.40



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

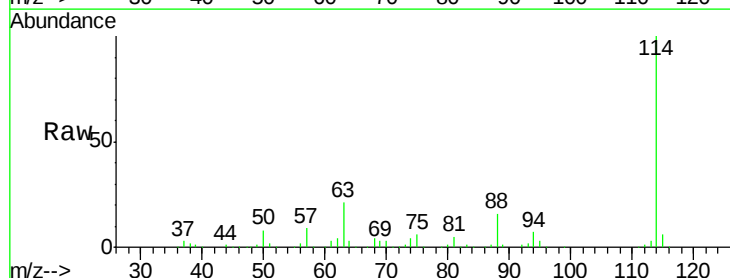
Tgt Ion: 114 Resp: 293788

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.6

88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU025321.D (-1555) (-)

Ion 63.00 (62.70 to 63.70): VU025321.D (-1555) (-)

Ion 87.90 (87.60 to 88.60): VU025321.D (-1555) (-)

200000

150000

100000

50000

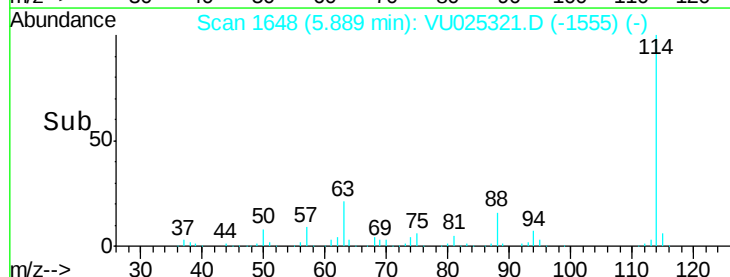
0

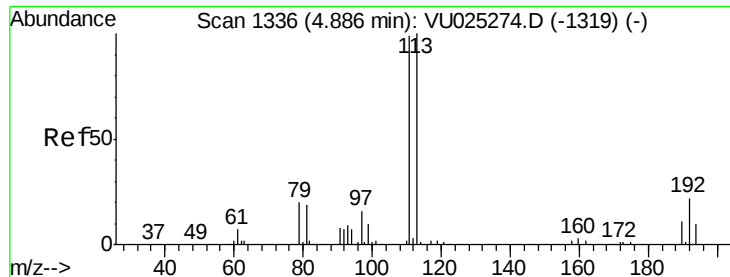
Time-->

5.80

5.90

6.00

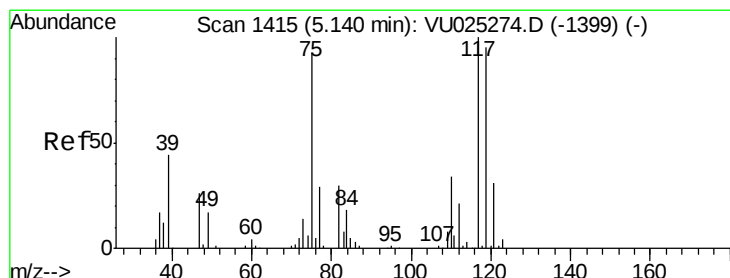
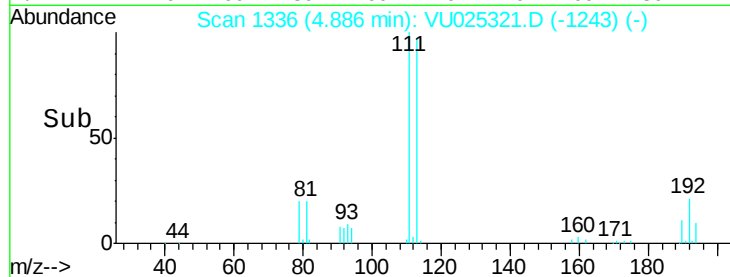
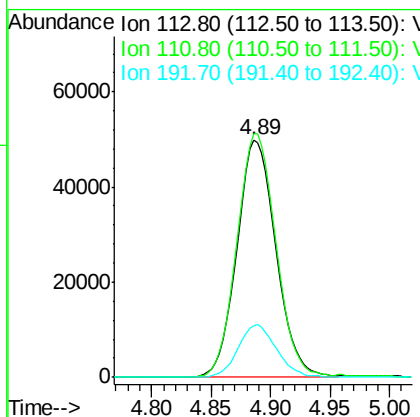
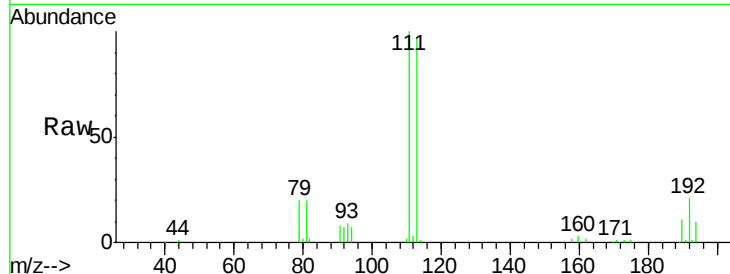




#35
Dibromofluoromethane
Concen: 45.84 ug/l
RT: 4.89 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

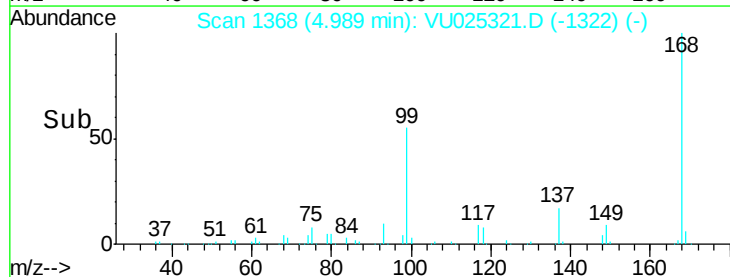
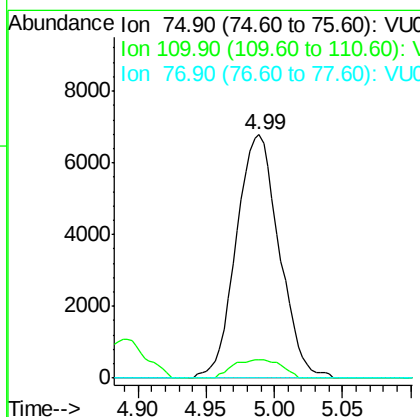
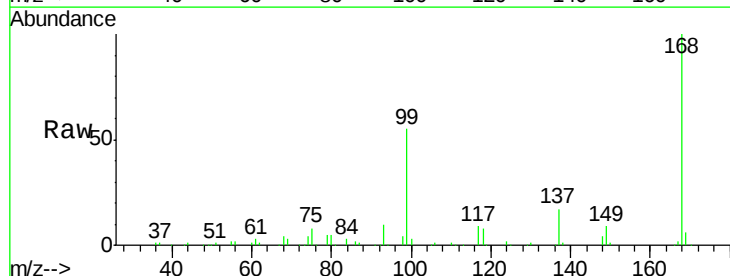
Instrument :
MSVOA_U
ClientSampleId :
KY038PS034-180709

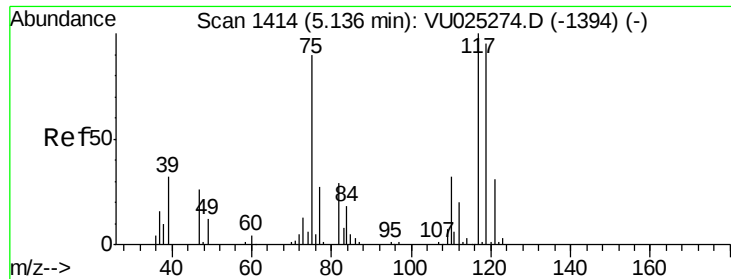
Tot Ion:113 Resp: 113618
Ion Ratio Lower Upper
113 100
111 102.6 81.7 122.5
192 21.7 17.1 25.7



#36
1,1-Dichloropropene
Concen: 4.55 ug/l
RT: 4.99 min Scan# 1368
Delta R.T. -0.15 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

Tgt Ion: 75 Resp: 14855
Ion Ratio Lower Upper
75 100
110 8.4 17.6 52.9#
77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.15 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

KY038PS034-180709

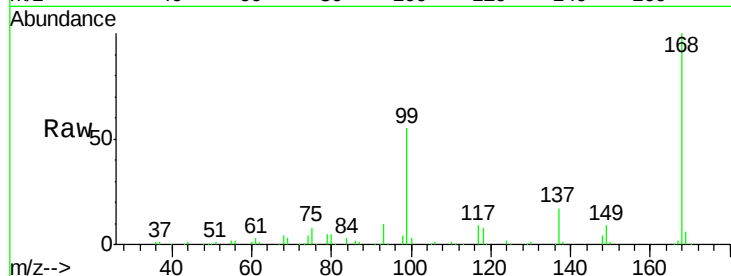
Tot Ion:117 Resp: 18089

Ion Ratio Lower Upper

117 100

119 3.5 75.7 113.5#

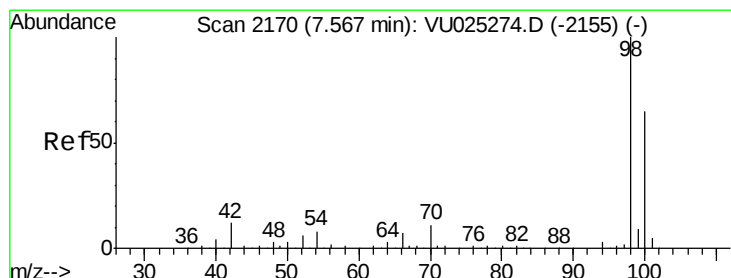
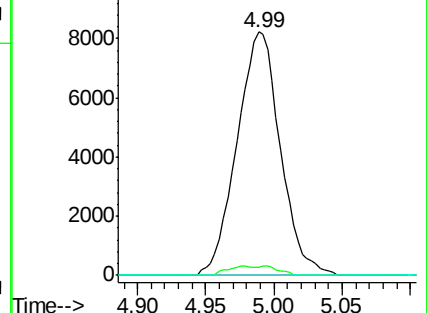
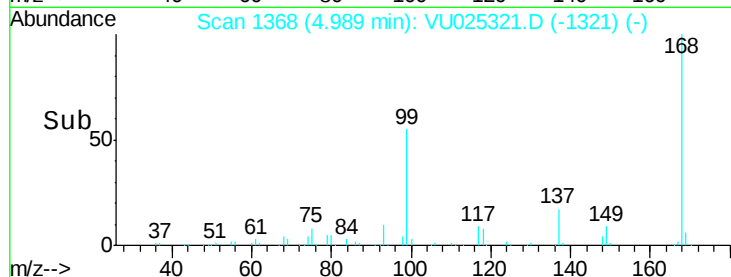
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 49.71 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025321.D

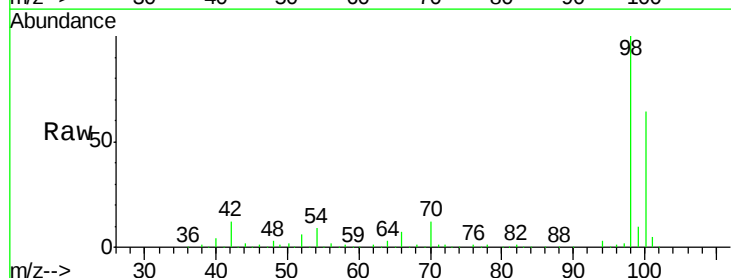
Acq: 11 Jul 2018 17:54

Tgt Ion: 98 Resp: 421864

Ion Ratio Lower Upper

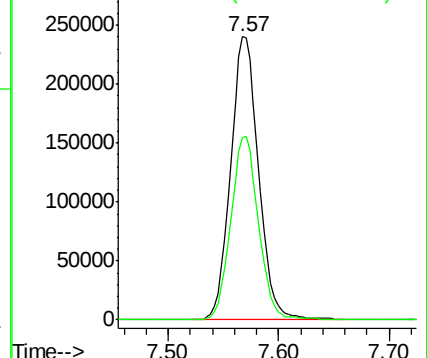
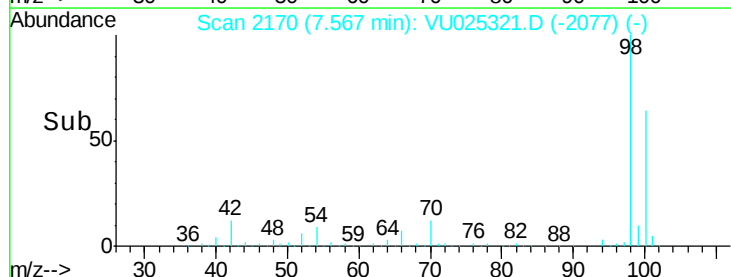
98 100

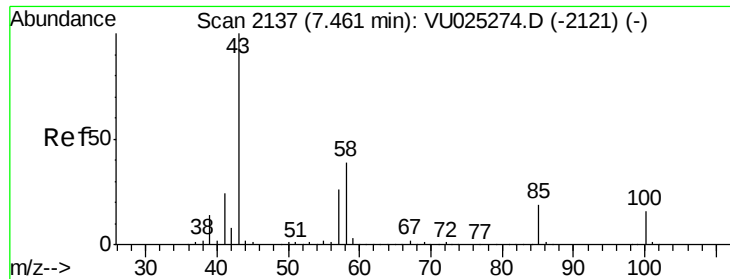
100 64.5 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.45 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

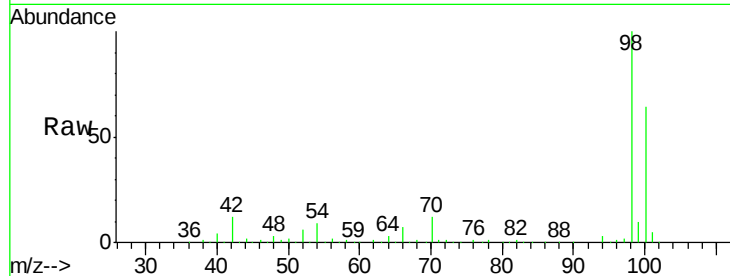
KY038PS034-180709

Tot Ion: 43 Resp: 1689

Ion Ratio Lower Upper

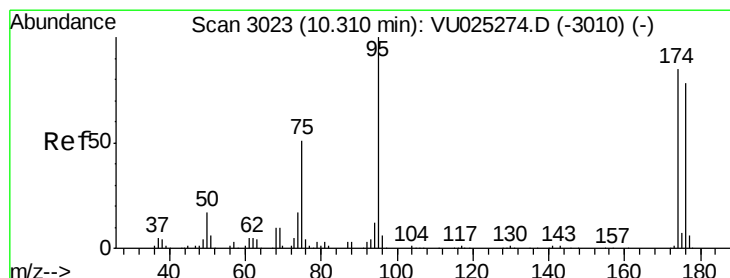
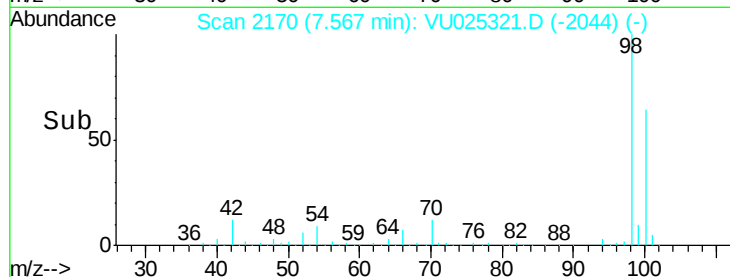
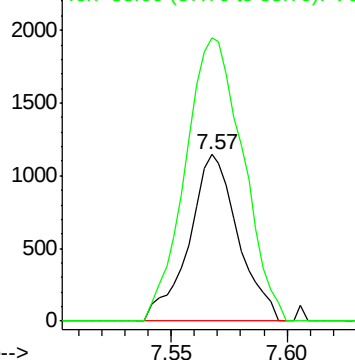
43 100

58 199.2 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 45.29 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

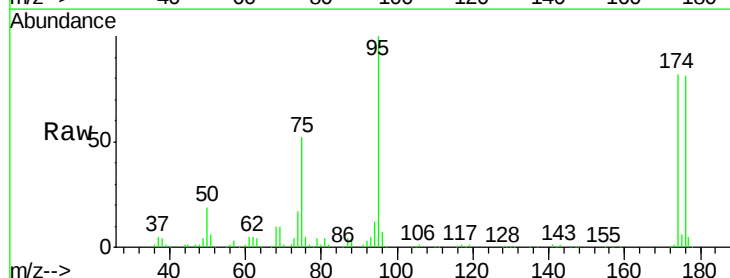
Tgt Ion: 95 Resp: 154744

Ion Ratio Lower Upper

95 100

174 85.5 0.0 172.2

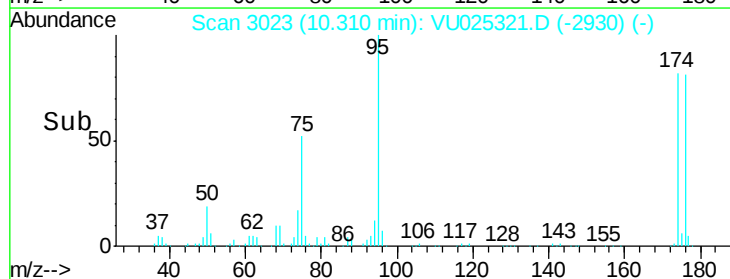
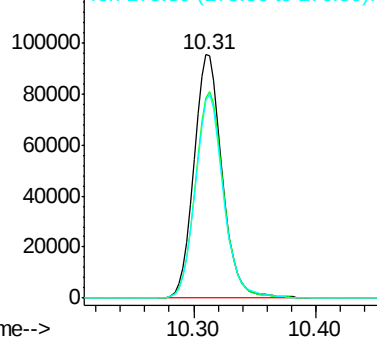
176 83.7 0.0 162.6

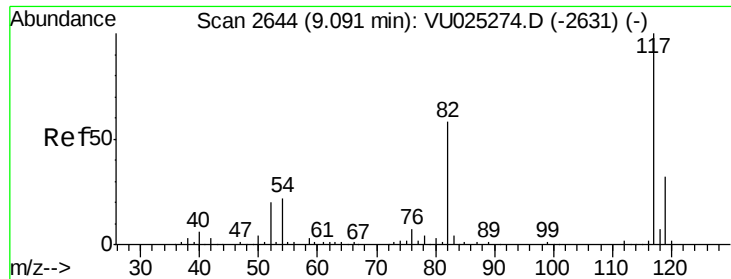


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

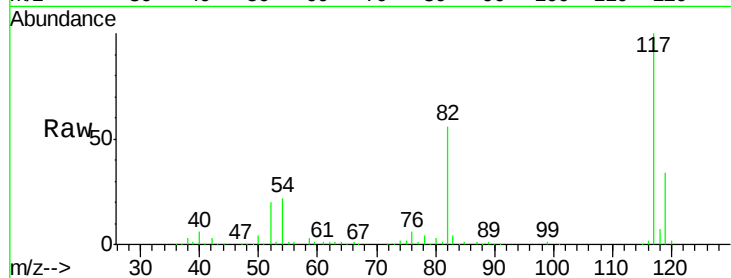




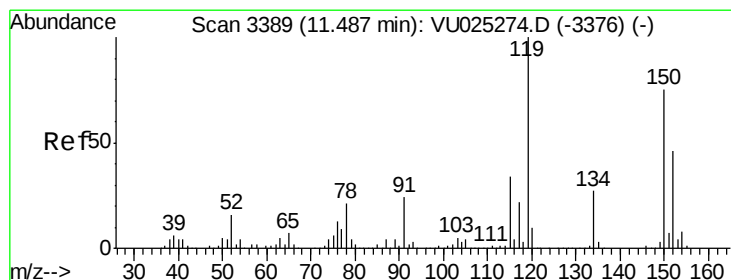
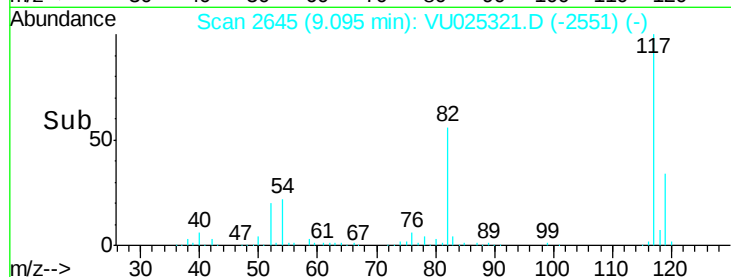
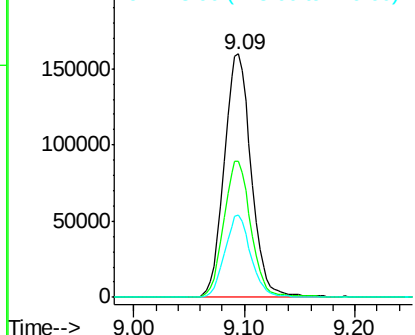
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

Instrument :
MSVOA_U
ClientSampleId :
KY038PS034-180709

Tot Ion:117 Resp: 272094
Ion Ratio Lower Upper
117 100
82 55.8 46.0 69.0
119 33.8 26.0 39.0

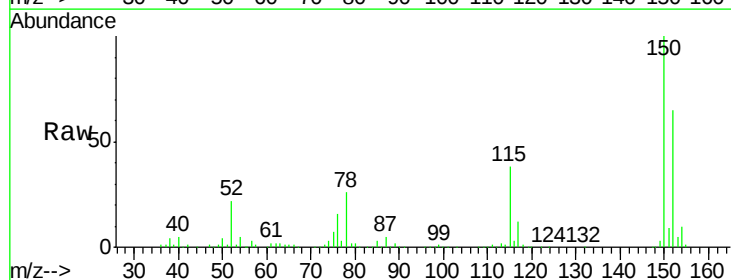


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

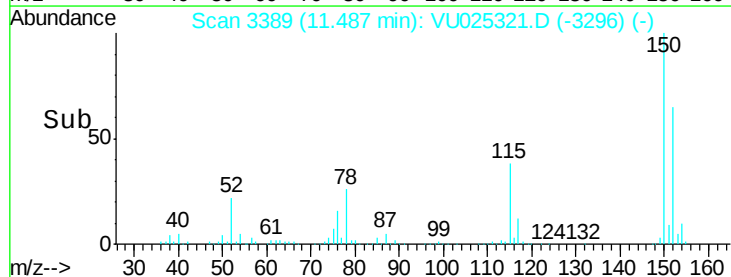
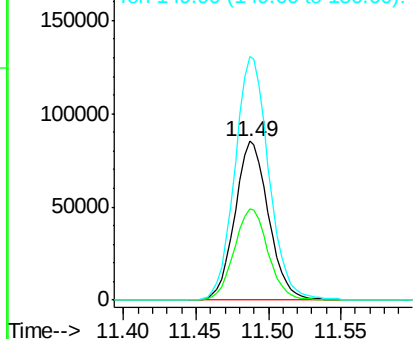


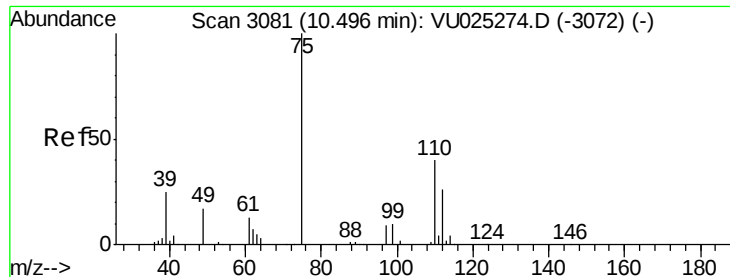
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025321.D
Acq: 11 Jul 2018 17:54

Tgt Ion:152 Resp: 137963
Ion Ratio Lower Upper
152 100
115 57.8 40.1 120.3
150 154.6 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: 29.28 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

Instrument :

MSVOA_U

ClientSampleId :

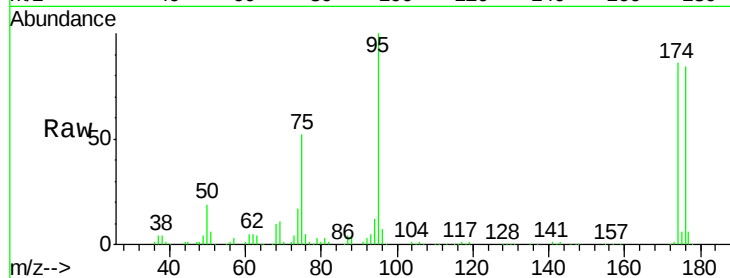
KY038PS034-180709

Tot Ion: 75 Resp: 82333

Ion Ratio Lower Upper

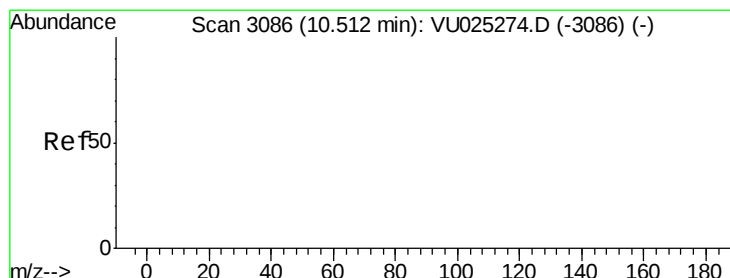
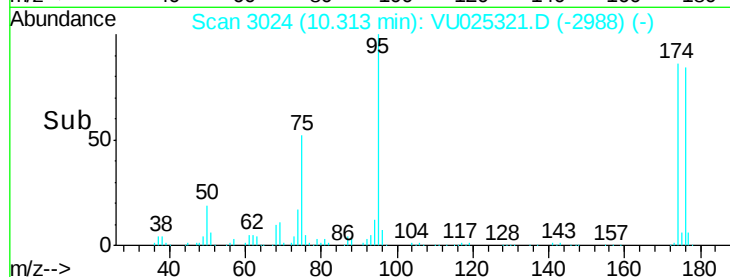
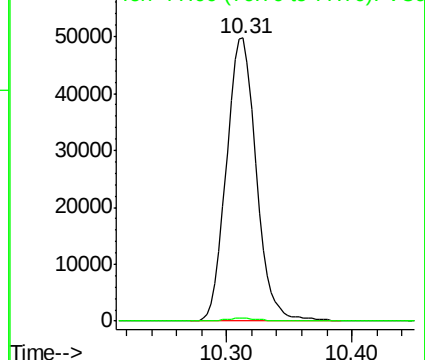
75 100

77 1.0 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: 74.91 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.20 min

Lab File: VU025321.D

Acq: 11 Jul 2018 17:54

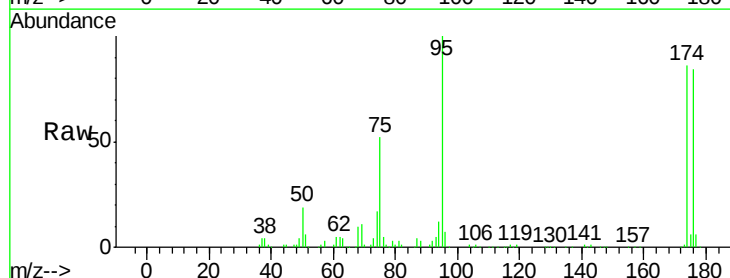
Tgt Ion: 75 Resp: 82333

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

