

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025365.D
 Acq On : 13 Jul 2018 02:25
 Operator : MD/SY
 Sample : PB111044TB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044TB

Quant Time: Jul 13 04:36:54 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	194299	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	301467	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	278228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	143642	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	152681	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
35) Dibromofluoromethane	4.89	113	116882	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
50) Toluene-d8	7.57	98	434863	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	10.31	95	158050	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	

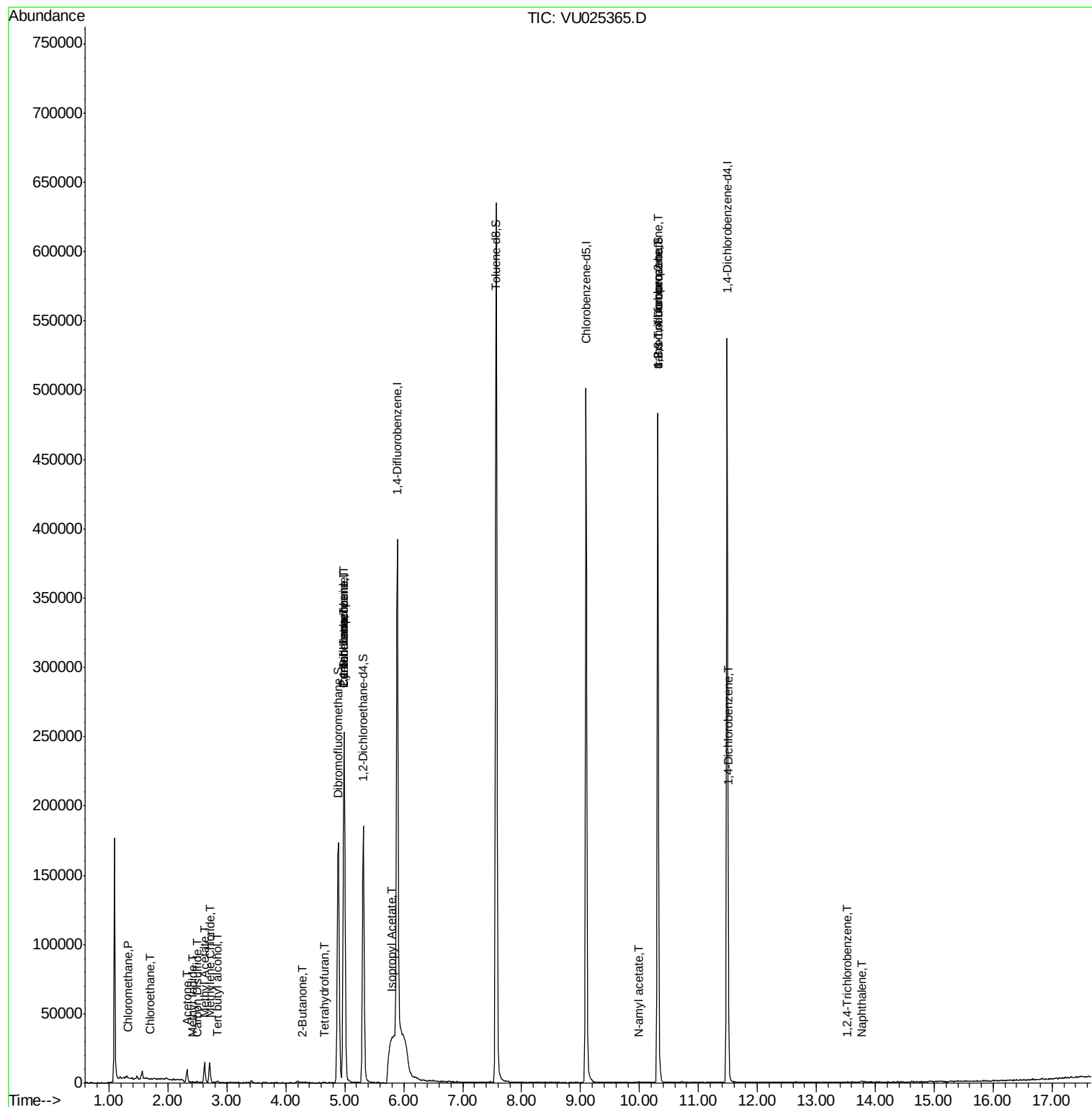
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	367	0.74	ug/l #	87
5) Bromomethane	1.63	94	191	Below Cal	#	79
6) Chloroethane	1.70	64	68	0.34	ug/l #	43
10) Methyl Iodide	2.43	142	272	7.80	ug/l #	66
11) Tert butyl alcohol	2.83	59	497	0.75	ug/l #	73
16) Acetone	2.32	43	9839	11.13	ug/l	97
17) Carbon Disulfide	2.48	76	314	1.98	ug/l #	74
18) Methyl Acetate	2.62	43	16882	5.46	ug/l	100
20) Methylene Chloride	2.71	84	6470	3.42	ug/l	97
25) 2-Butanone	4.29	43	1482	0.71	ug/l	90
29) Tetrahydrofuran	4.65	42	368	0.29	ug/l #	42
31) Cyclohexane	4.99	56	3769	1.72	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	14233	4.25	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18495	5.13	ug/l #	17
43) Isopropyl Acetate	5.80	43	44776	7.48	ug/l #	61
74) N-amyl acetate	10.00	43	522	1.38	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	82702	28.28	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	82702	72.27	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	75	1.50	ug/l #	25
93) 1,2,4-Trichlorobenzene	13.53	180	21	3.29	ug/l #	83
95) Naphthalene	13.78	128	745	2.48	ug/l #	69

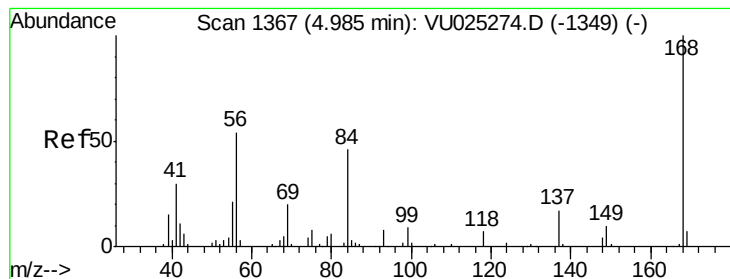
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 13 04:36:54 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

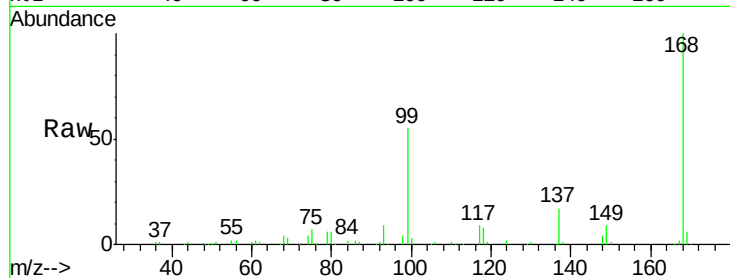
PB111044TB

Tot Ion:168 Resp: 194299

Ion Ratio Lower Upper

168 100

99 55.1 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

80000

60000

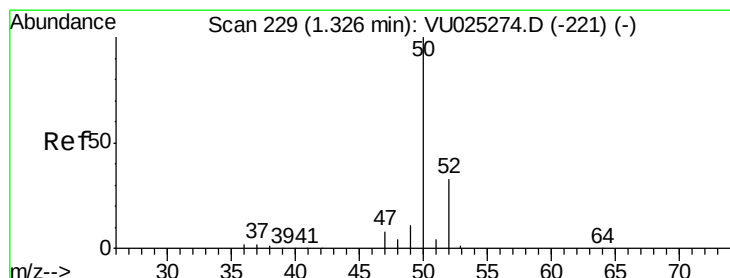
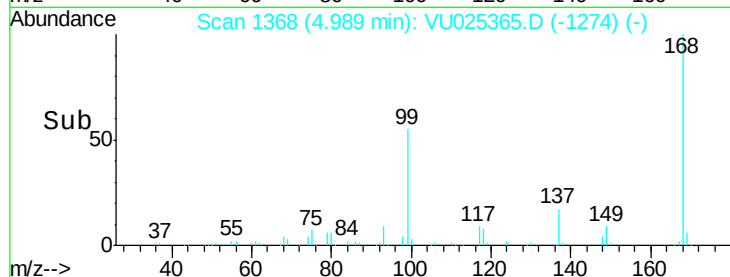
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: 0.74 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025365.D

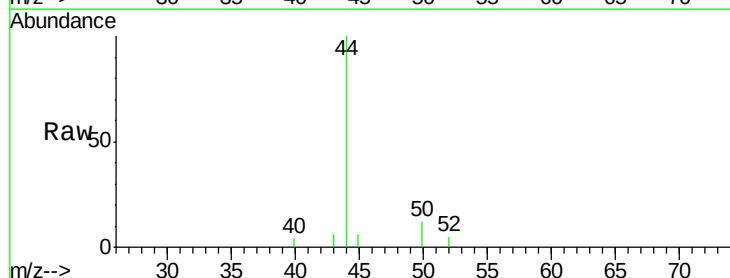
Acq: 13 Jul 2018 02:25

Tgt Ion: 50 Resp: 367

Ion Ratio Lower Upper

50 100

52 40.6 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

400

300

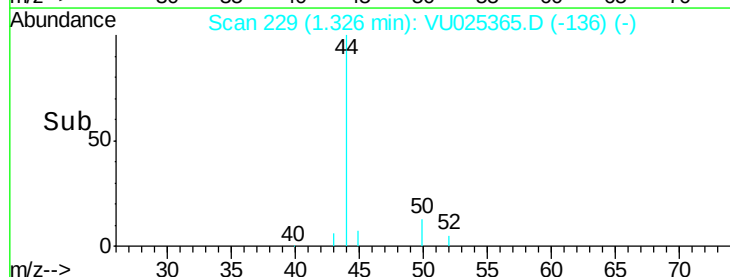
200

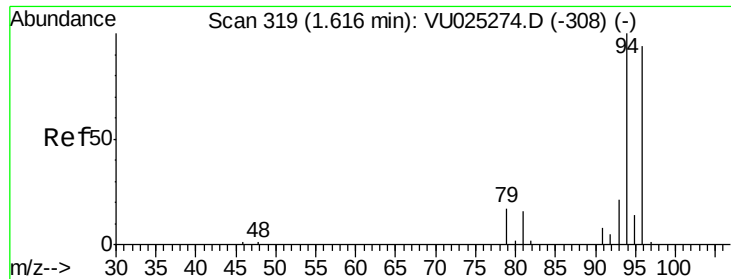
100

0

1.30 1.32 1.34

Time-->

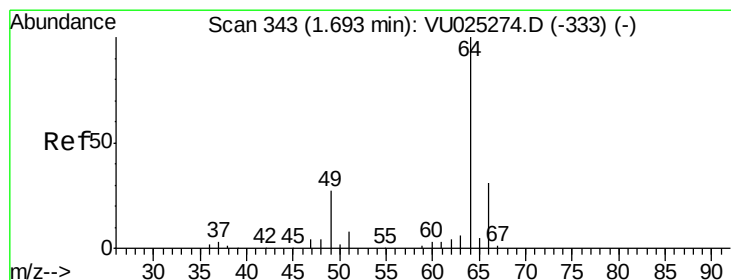
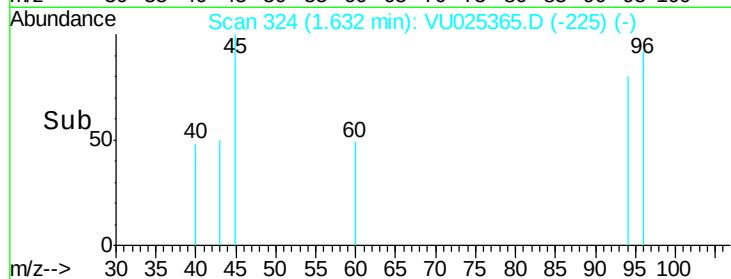
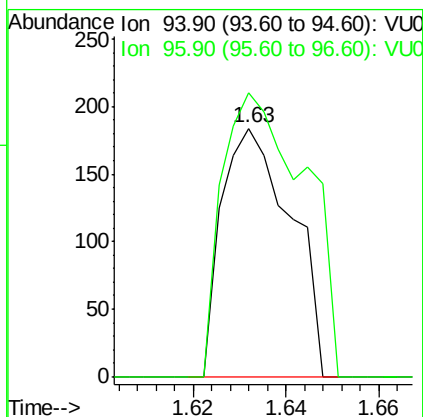
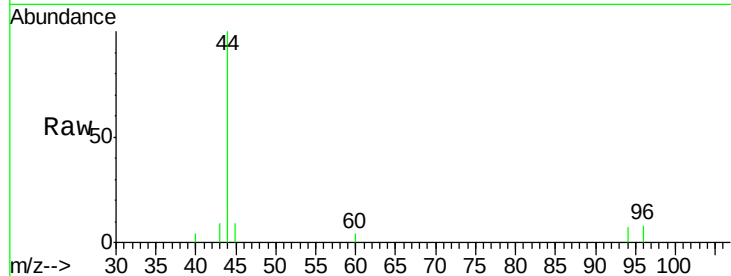




#5
Bromomethane
Concen: Below Cal
RT: 1.63 min Scan# 324
Delta R.T. 0.02 min
Lab File: VU025365.D
Acq: 13 Jul 2018 02:25

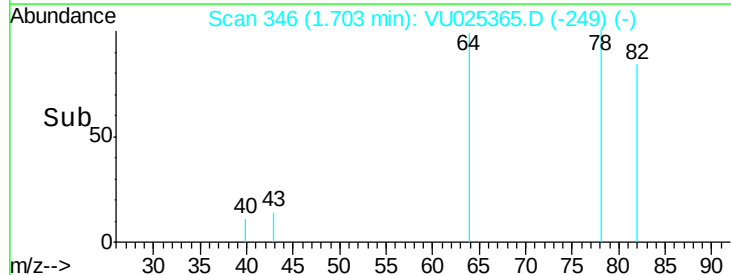
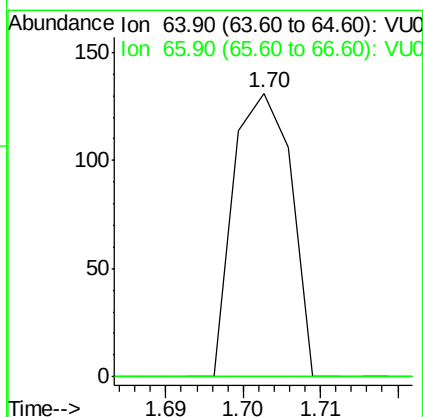
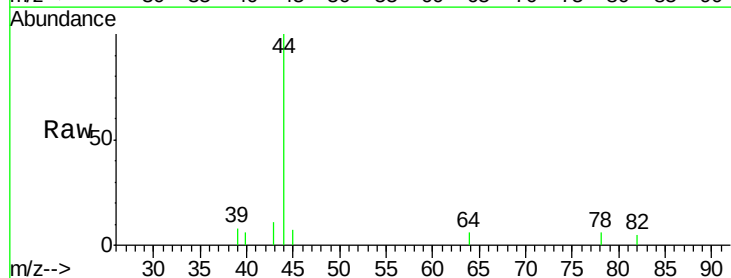
Instrument :
MSVOA_U
ClientSampleId :
PB111044TB

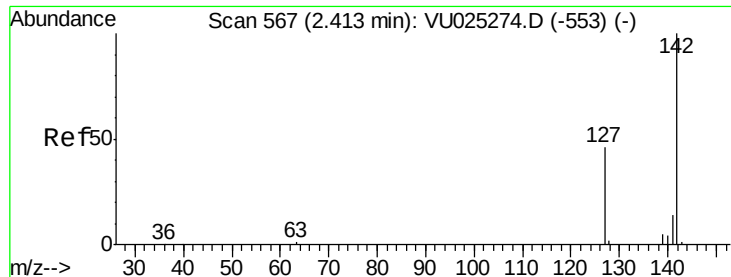
Tot Ion: 94 Resp: 191
Ion Ratio Lower Upper
94 100
96 114.1 75.0 112.4#



#6
Chloroethane
Concen: 0.34 ug/l
RT: 1.70 min Scan# 346
Delta R.T. 0.01 min
Lab File: VU025365.D
Acq: 13 Jul 2018 02:25

Tgt Ion: 64 Resp: 68
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#

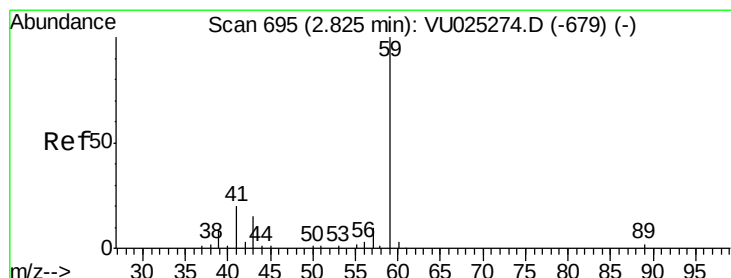
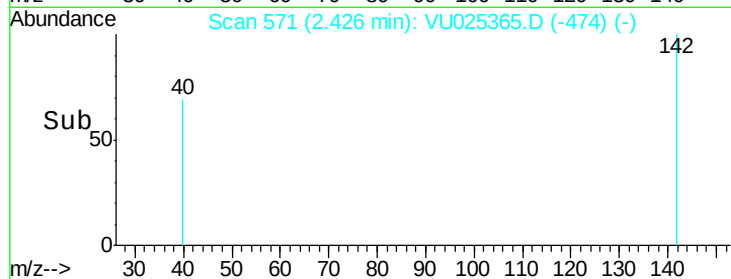
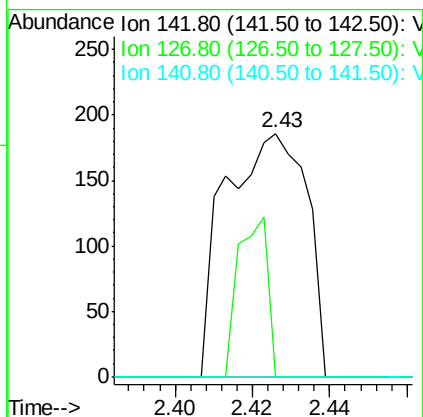
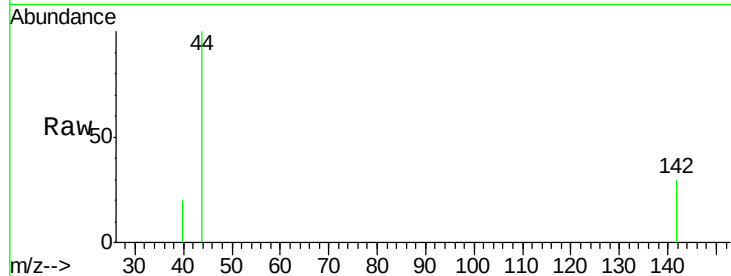




#10
Methvl Iodide
Concen: 7.80 ug/l
RT: 2.43 min Scan# 571
Delta R.T. 0.01 min
Lab File: VU025365.D
Acq: 13 Jul 2018 02:25

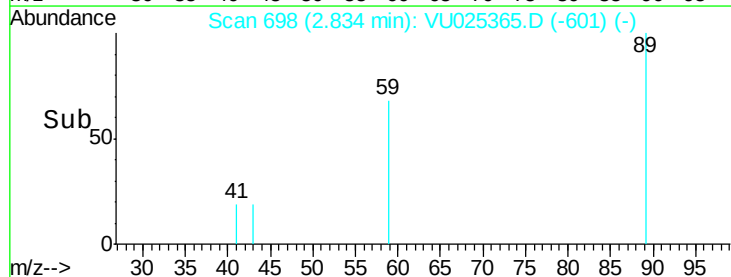
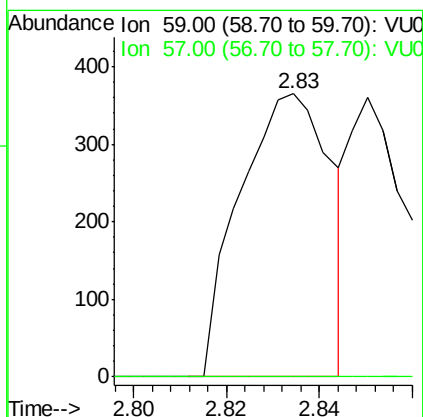
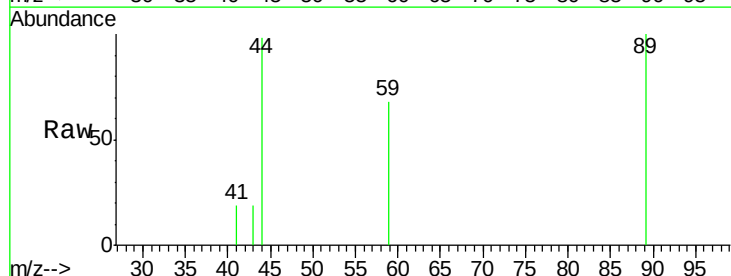
Instrument :
MSVOA_U
ClientSampleId :
PB111044TB

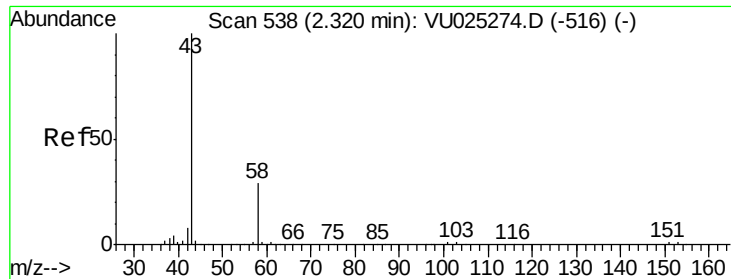
Tot Ion:142 Resp: 272
Ion Ratio Lower Upper
142 100
127 23.5 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.75 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU025365.D
Acq: 13 Jul 2018 02:25

Tgt Ion: 59 Resp: 497
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 11.13 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

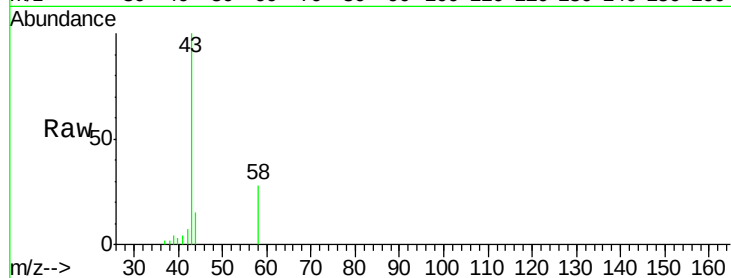
PB111044TB

Tot Ion: 43 Resp: 9839

Ion Ratio Lower Upper

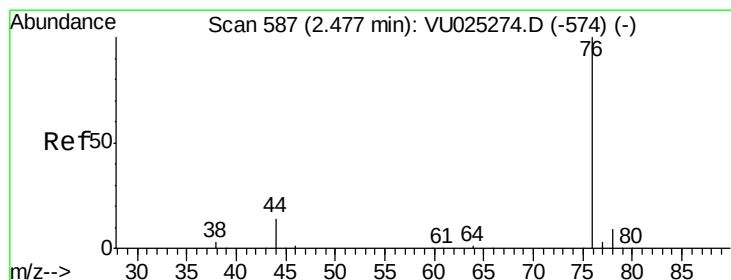
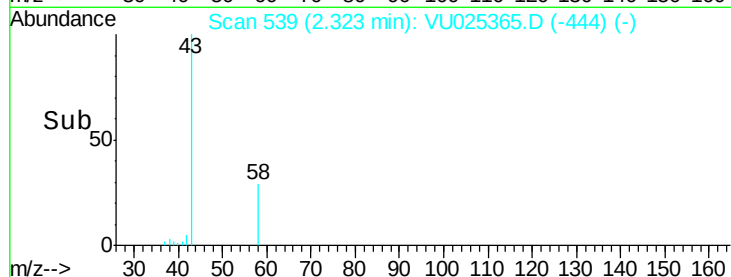
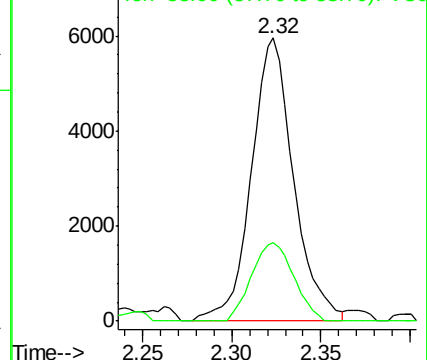
43 100

58 27.6 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 1.98 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025365.D

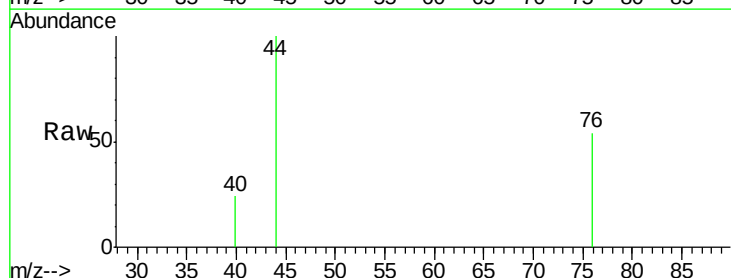
Acq: 13 Jul 2018 02:25

Tgt Ion: 76 Resp: 314

Ion Ratio Lower Upper

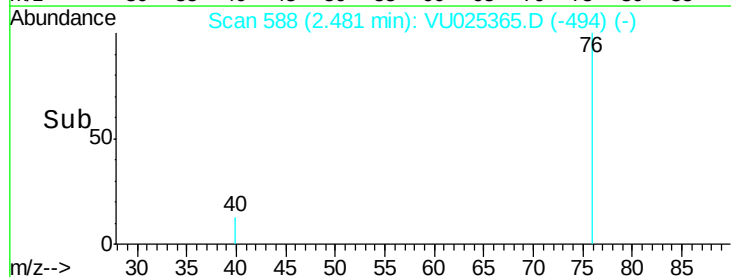
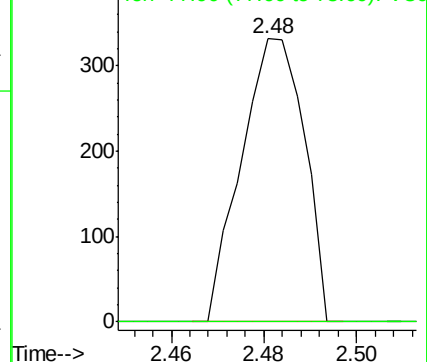
76 100

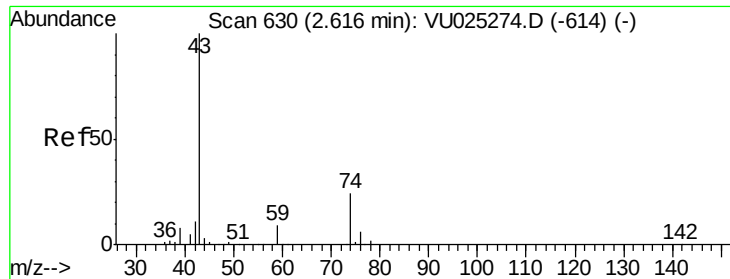
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

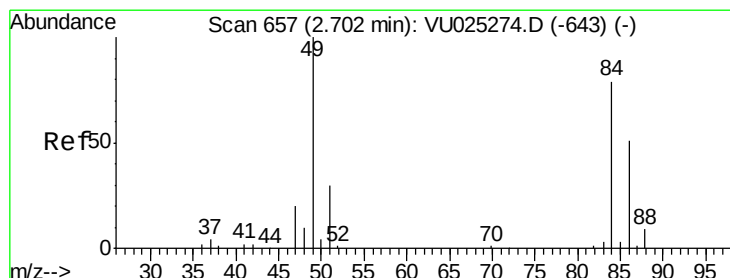
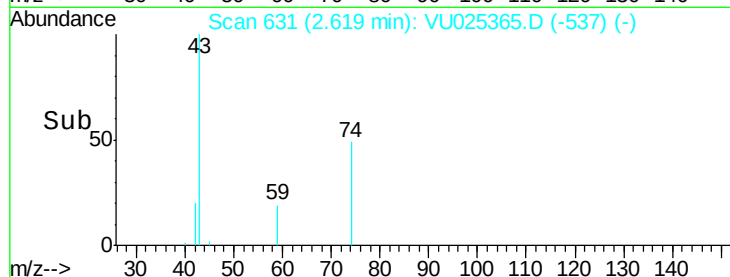
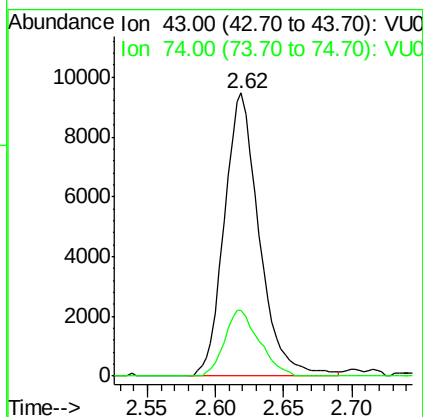
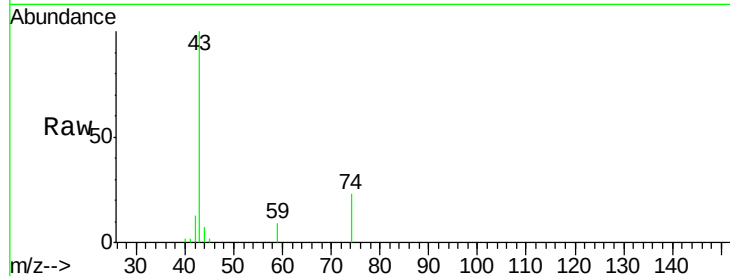




#18
Methyl Acetate
Concen: 5.46 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025365.D
Acq: 13 Jul 2018 02:25

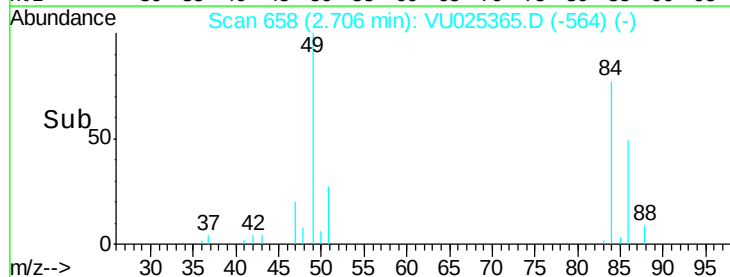
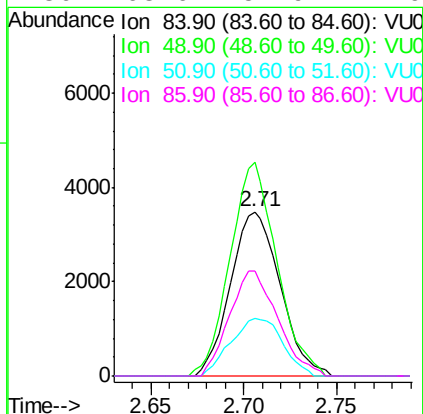
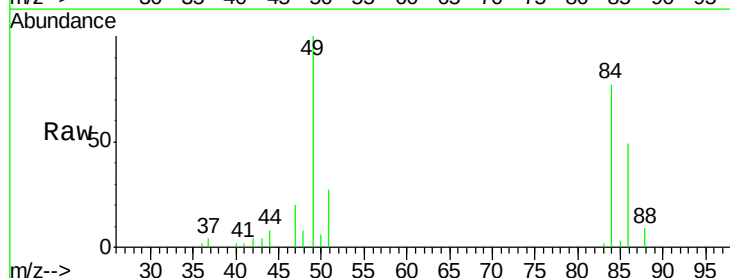
Instrument :
MSVOA_U
ClientSampleId :
PB111044TB

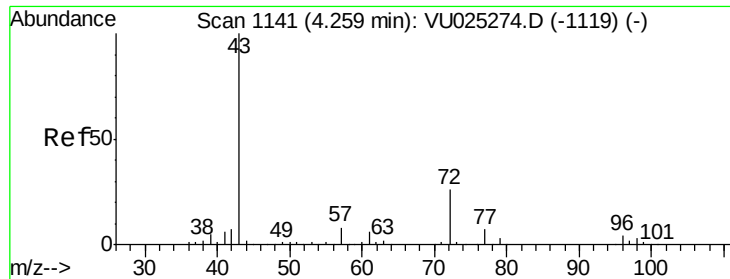
Tot Ion: 43 Resp: 16882
Ion Ratio Lower Upper
43 100
74 22.9 18.5 27.7



#20
Methylene Chloride
Concen: 3.42 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025365.D
Acq: 13 Jul 2018 02:25

Tgt Ion: 84 Resp: 6470
Ion Ratio Lower Upper
84 100
49 129.9 101.8 152.6
51 35.3 30.8 46.2
86 63.6 51.9 77.9





#25

2-Butanone

Concen: 0.71 ug/l

RT: 4.29 min Scan# 1150

Delta R.T. 0.03 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampled :

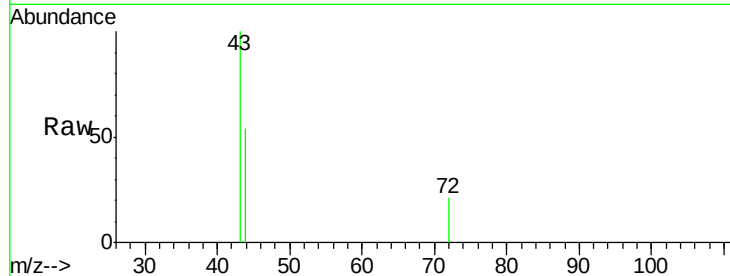
PB111044TB

Tot Ion: 43 Resp: 1482

Ion Ratio Lower Upper

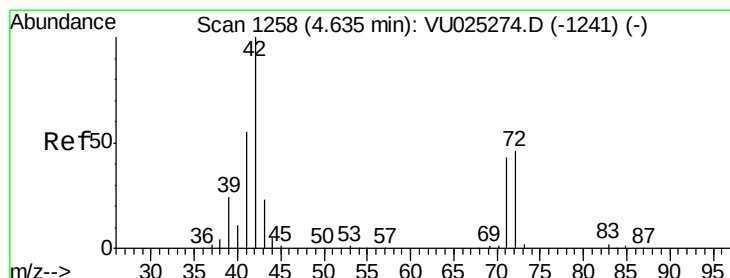
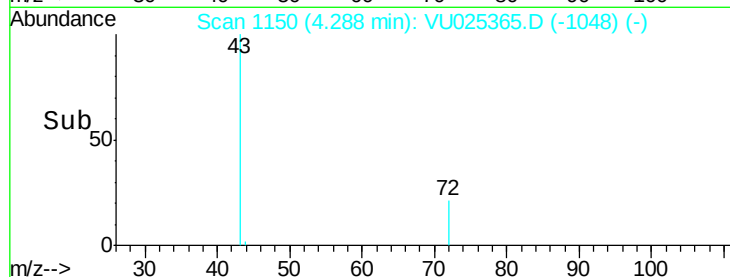
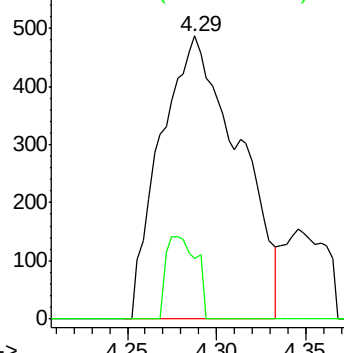
43 100

72 21.1 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 4.65 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

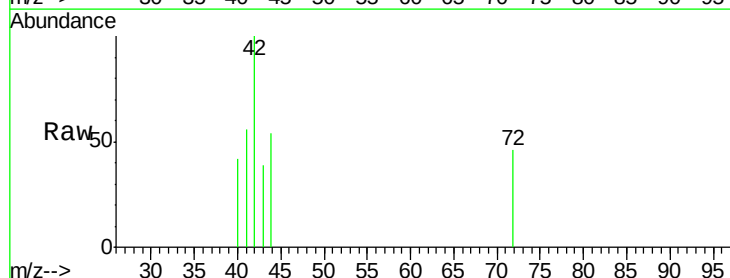
Tgt Ion: 42 Resp: 368

Ion Ratio Lower Upper

42 100

72 13.3 36.7 55.1#

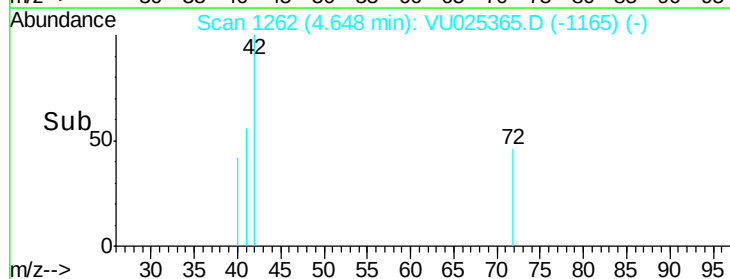
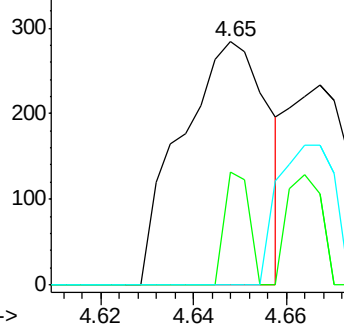
71 0.0 33.9 50.9#

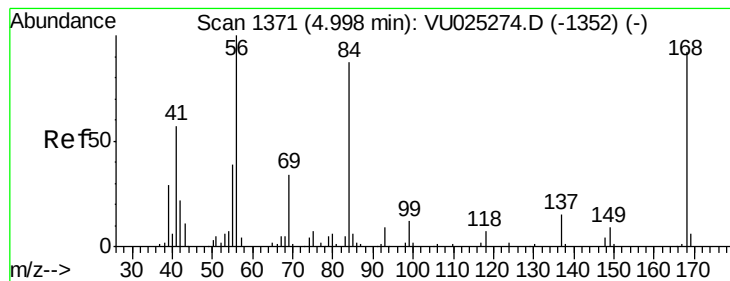


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0





#31

Cyclohexane

Concen: 1.72 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

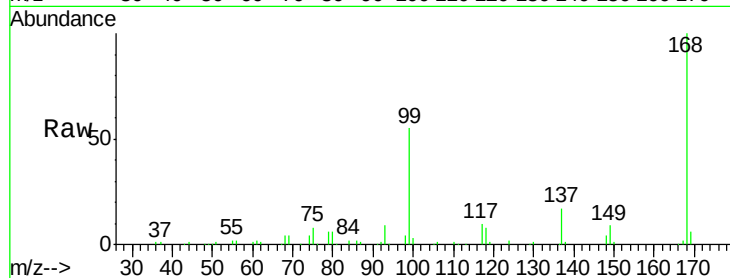
Tot Ion: 56 Resp: 3769

Ion Ratio Lower Upper

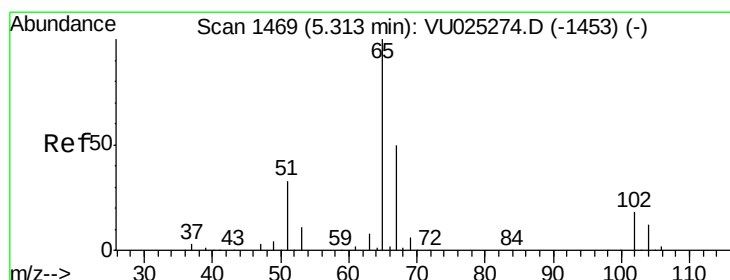
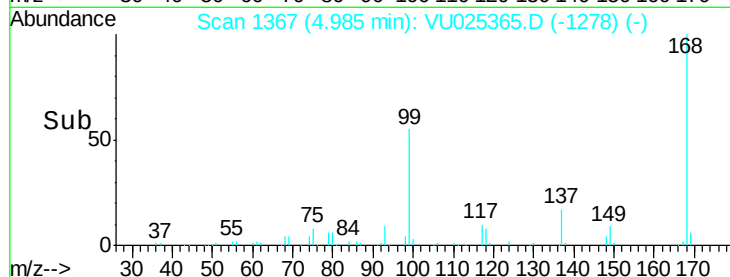
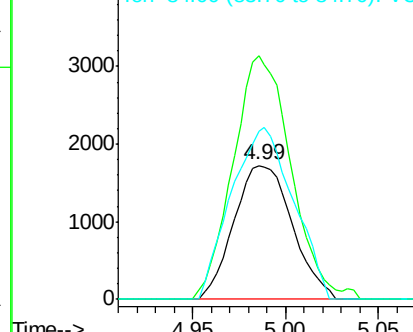
56 100

69 182.1 26.8 40.2#

84 125.7 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: 50.58 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025365.D

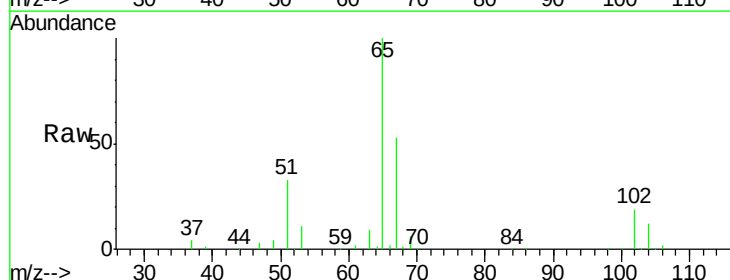
Acq: 13 Jul 2018 02:25

Tgt Ion: 65 Resp: 152681

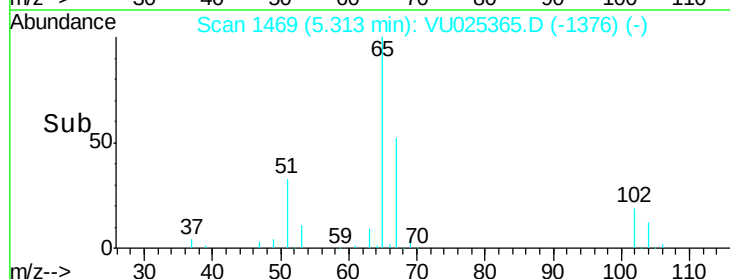
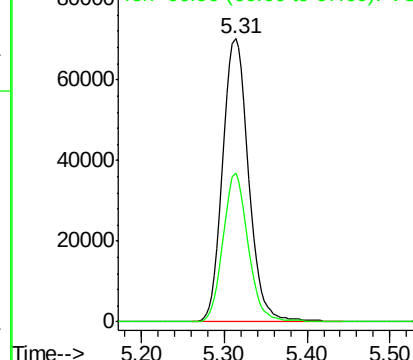
Ion Ratio Lower Upper

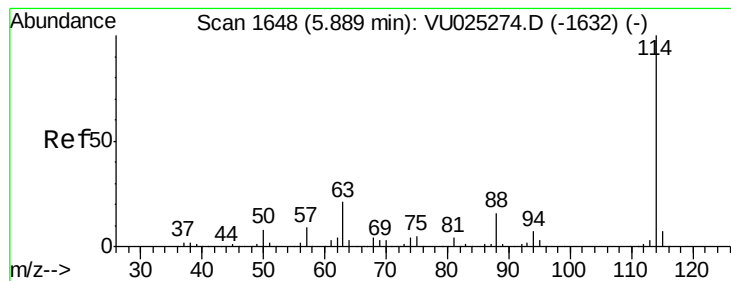
65 100

67 50.6 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# 1648

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

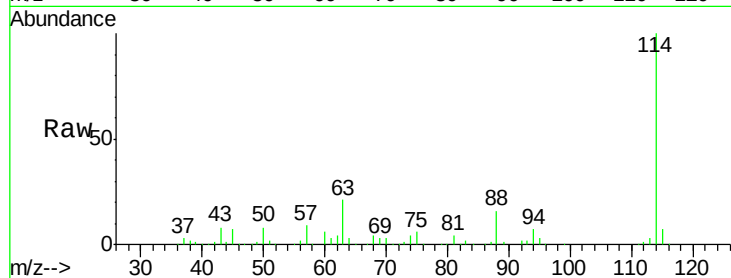
Tot Ion:114 Resp: 301467

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.6

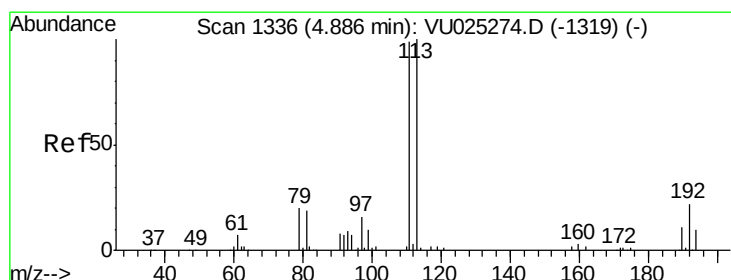
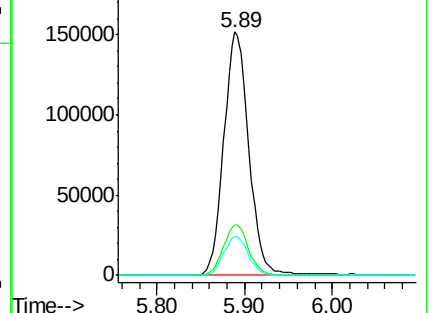
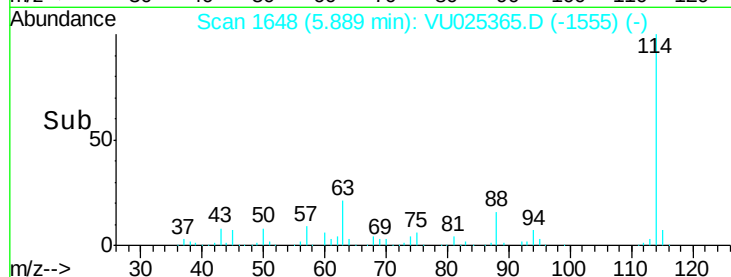
88 16.1 0.0 32.4



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: 45.96 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

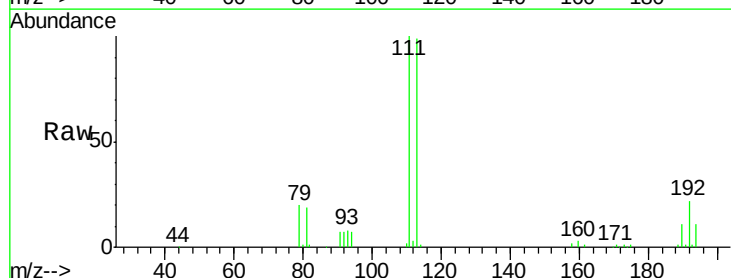
Tgt Ion:113 Resp: 116882

Ion Ratio Lower Upper

113 100

111 102.8 81.7 122.5

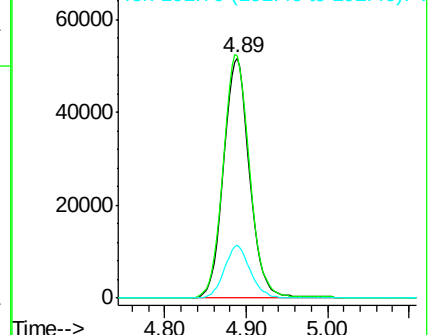
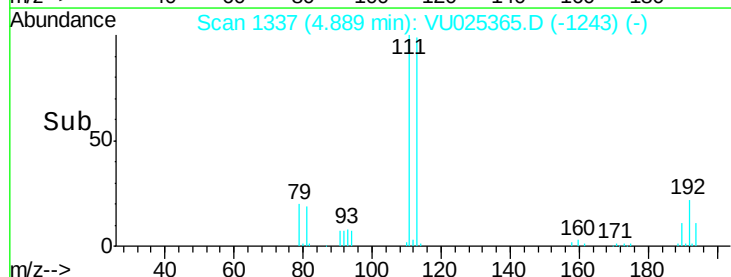
192 21.7 17.1 25.7

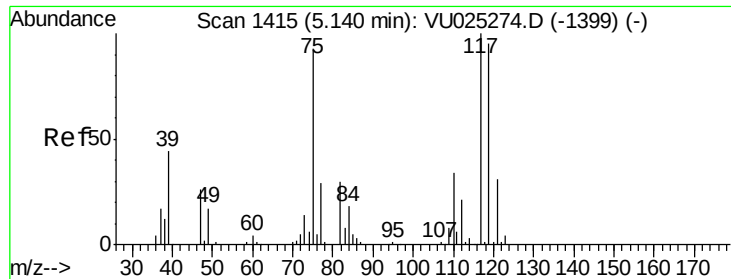


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.25 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

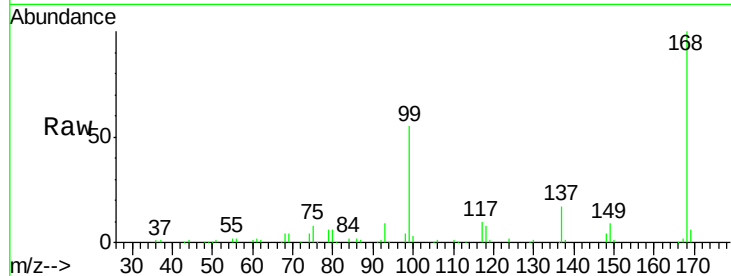
Tot Ion: 75 Resp: 14233

Ion Ratio Lower Upper

75 100

110 9.8 17.6 52.9#

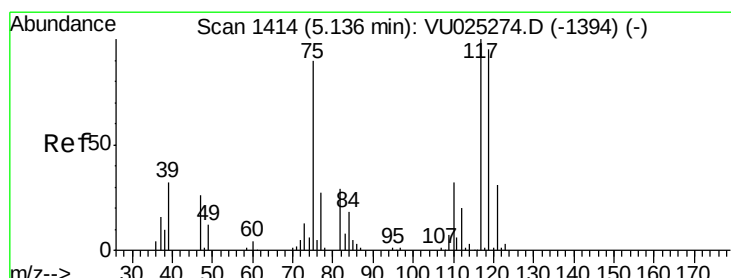
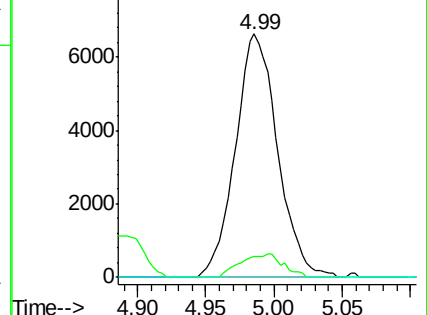
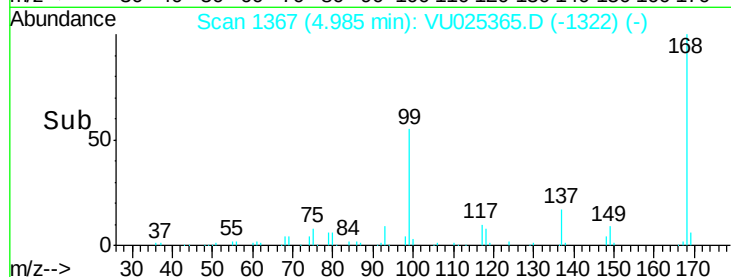
77 0.0 24.4 36.6#



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: 5.13 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

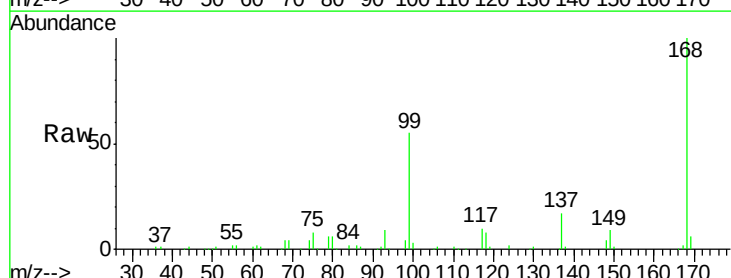
Tgt Ion: 117 Resp: 18495

Ion Ratio Lower Upper

117 100

119 5.4 75.7 113.5#

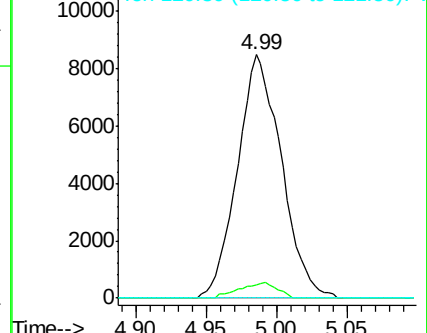
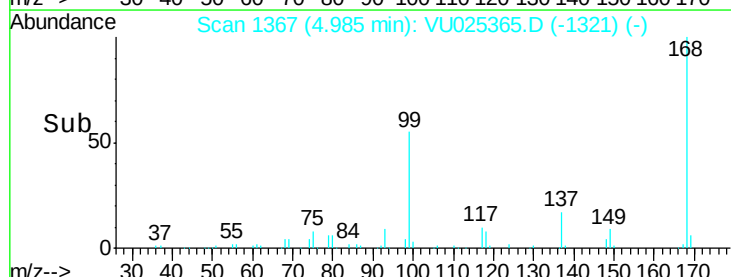
121 0.0 24.6 36.8#

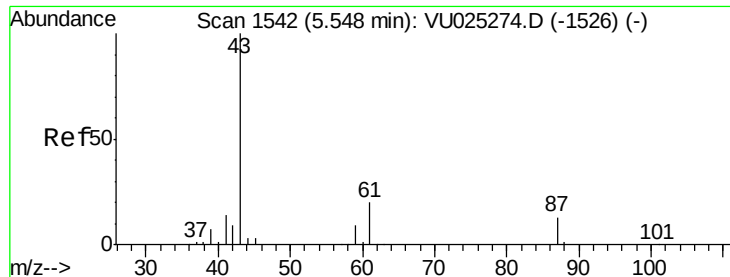


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 7.48 ug/l

RT: 5.80 min Scan# 1620

Delta R.T. 0.25 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

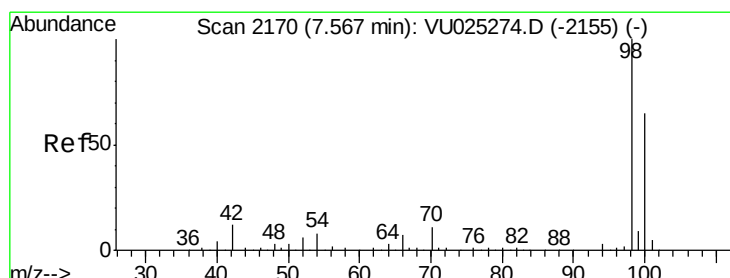
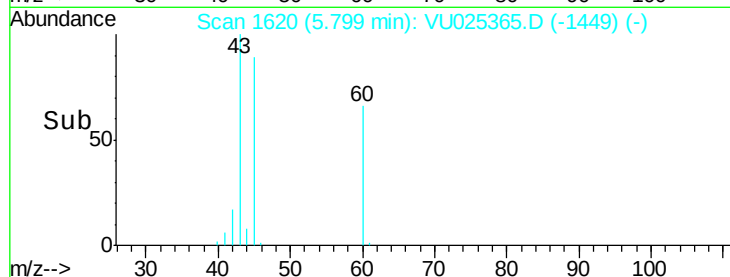
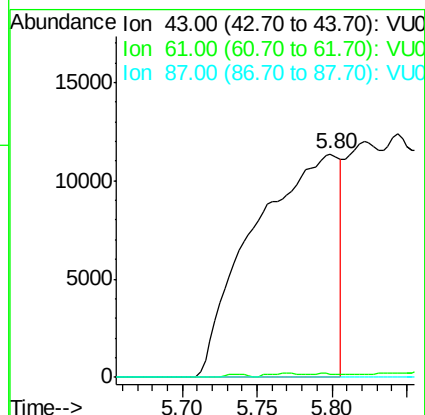
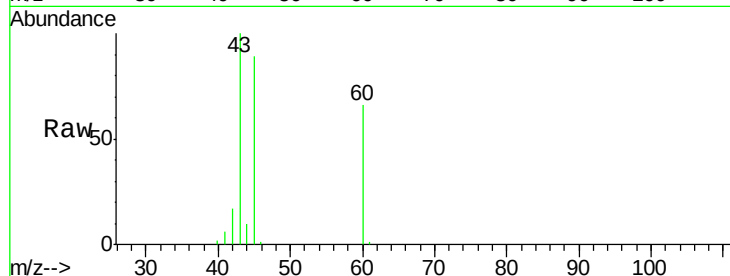
Tot Ion: 43 Resp: 44776

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

87 0.0 10.6 16.0#



#50

Toluene-d8

Concen: 49.93 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025365.D

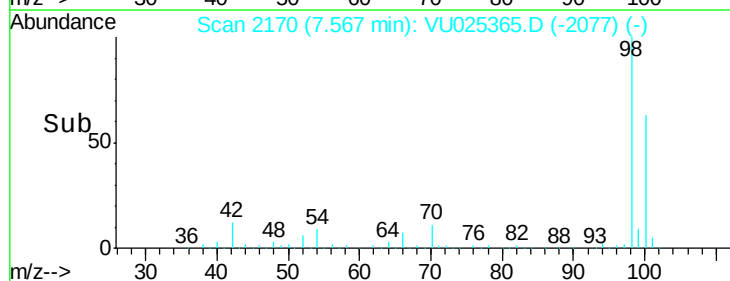
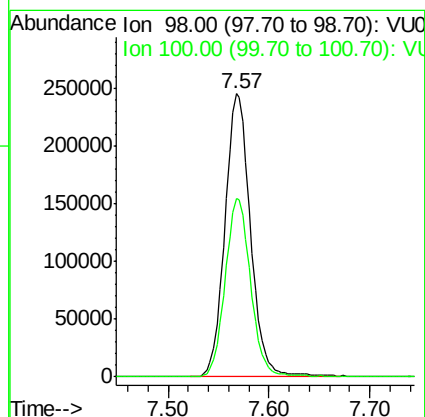
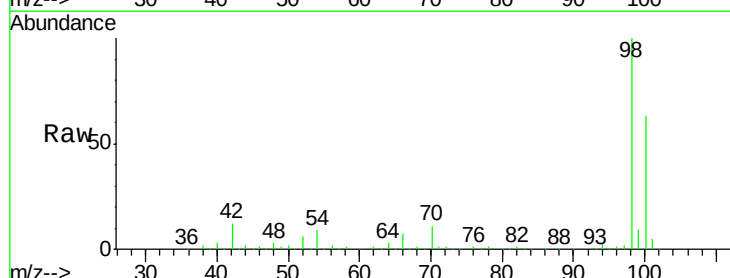
Acq: 13 Jul 2018 02:25

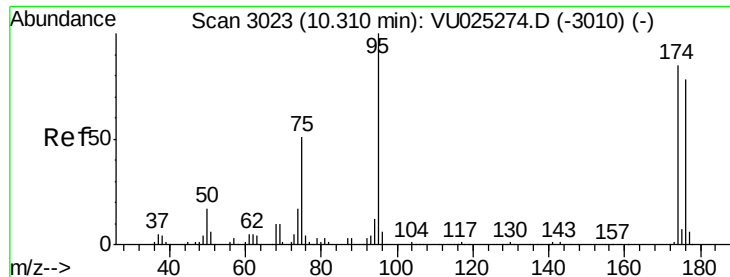
Tgt Ion: 98 Resp: 434863

Ion Ratio Lower Upper

98 100

100 62.9 51.1 76.7





#62

4-Bromofluorobenzene

Concen: 45.08 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

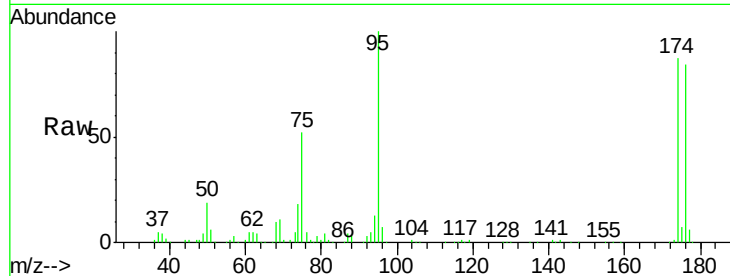
Tot Ion: 95 Resp: 158050

Ion Ratio Lower Upper

95 100

174 85.9 0.0 172.2

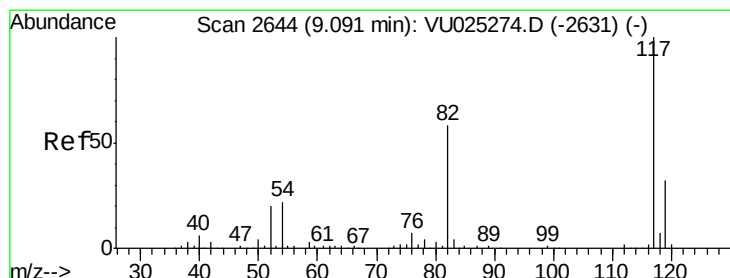
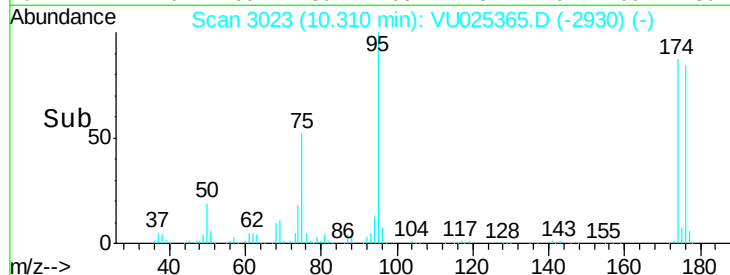
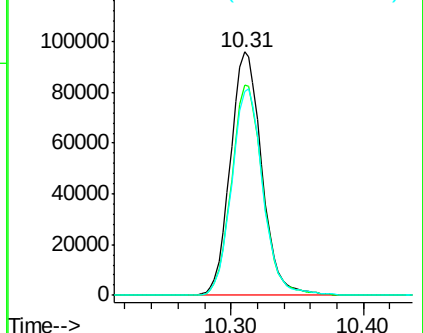
176 84.5 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

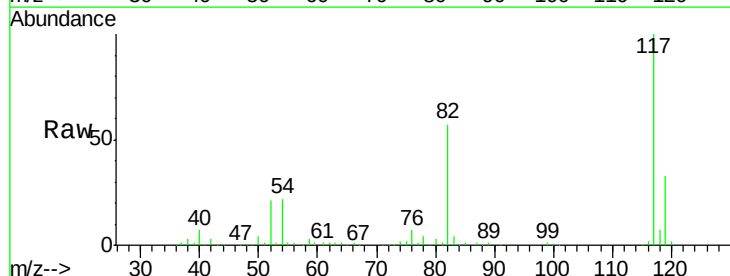
Tgt Ion: 117 Resp: 278228

Ion Ratio Lower Upper

117 100

82 56.7 46.0 69.0

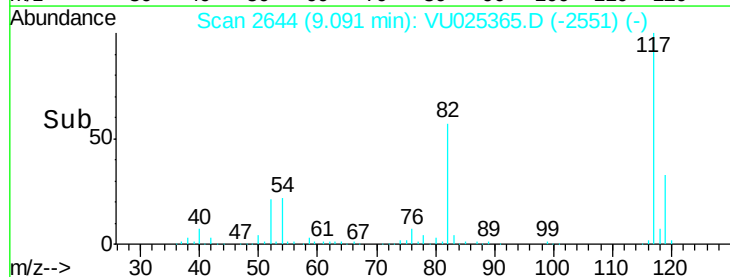
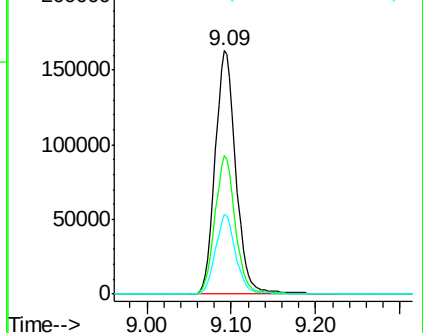
119 32.6 26.0 39.0

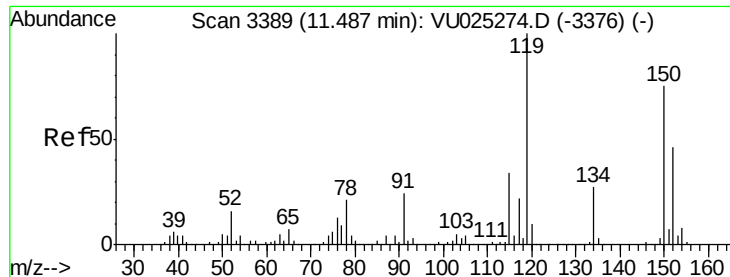


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

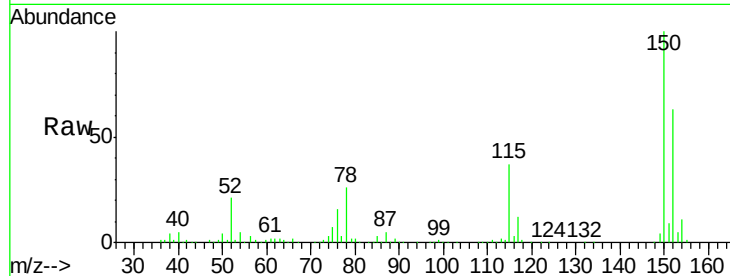
Tot Ion:152 Resp: 143642

Ion Ratio Lower Upper

152 100

115 57.6 40.1 120.3

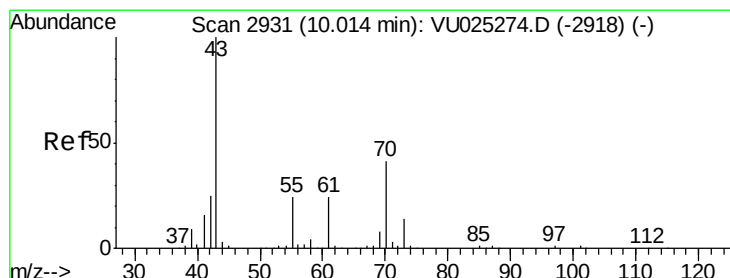
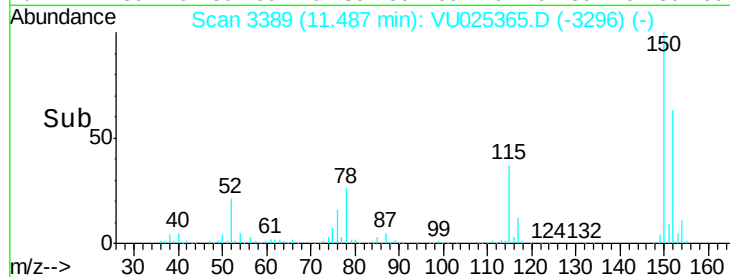
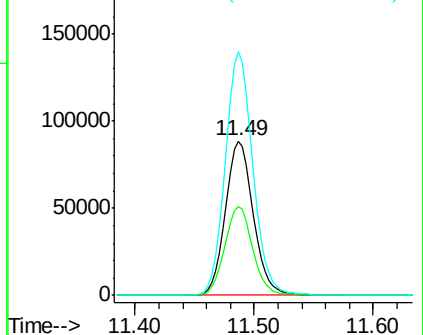
150 156.5 0.0 351.4



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



#74

N-ethyl acetate

Concen: 1.38 ug/l

RT: 10.00 min Scan# 2926

Delta R.T. -0.02 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Tgt Ion: 43 Resp: 522

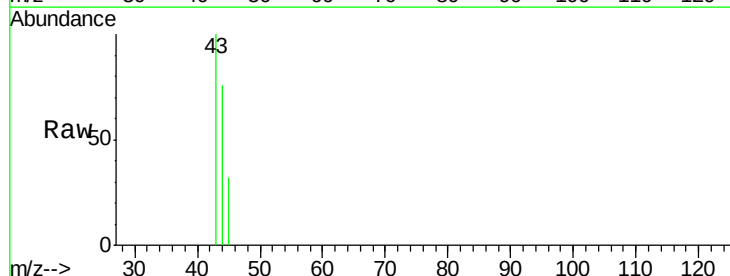
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

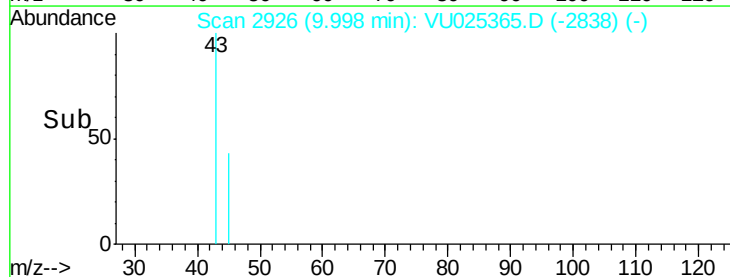
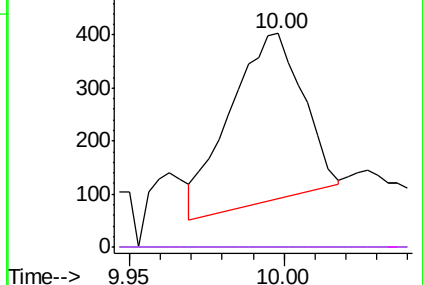


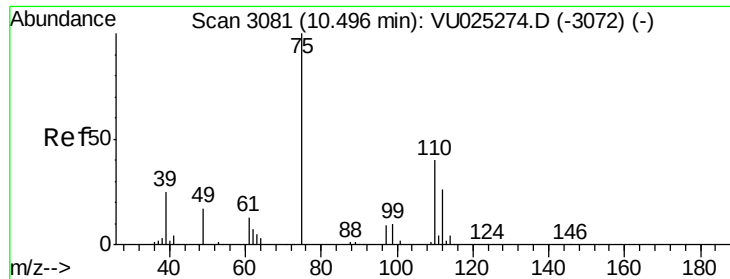
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

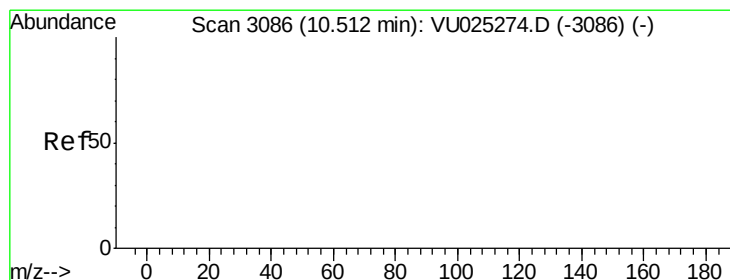
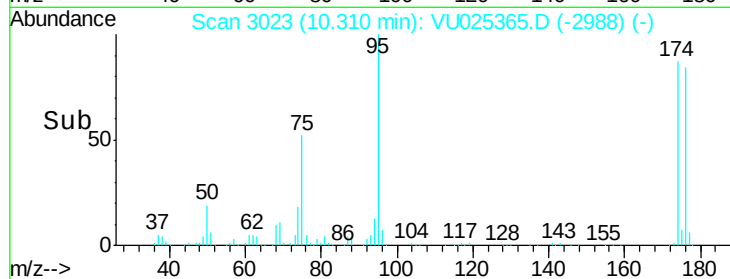
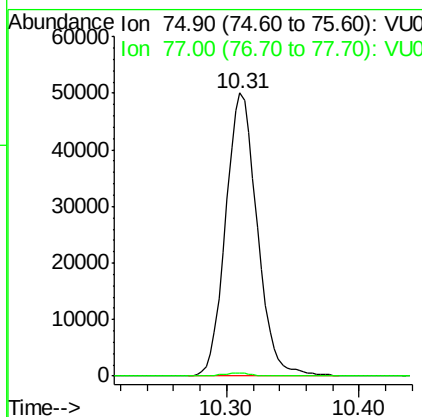
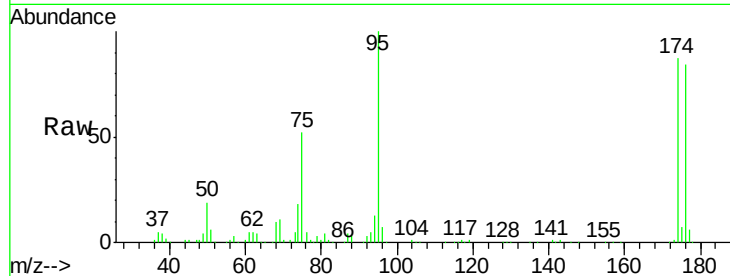




#76
 1,2,3-Trichloropropane
 Concen: 28.28 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU025365.D
 Acq: 13 Jul 2018 02:25

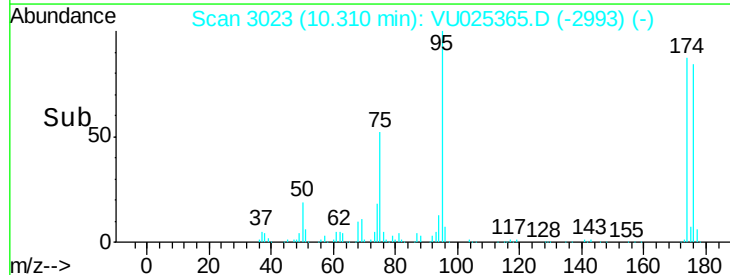
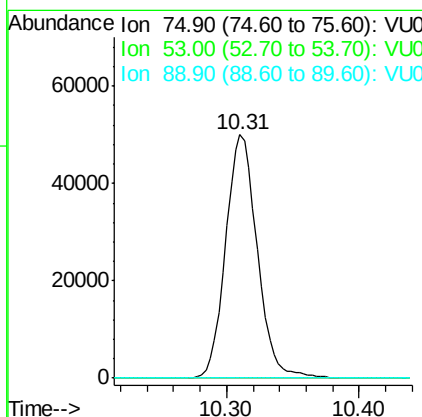
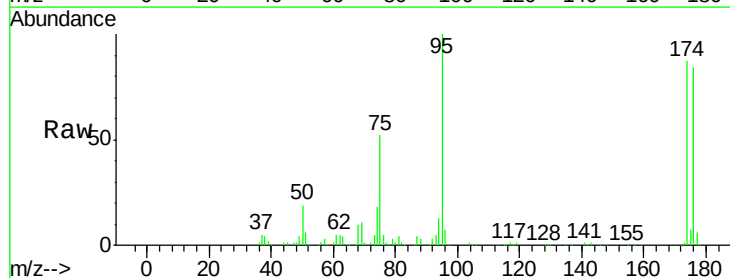
Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044TB

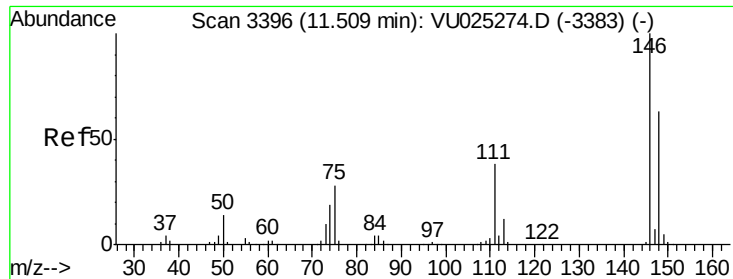
Tot Ion: 75 Resp: 82702
 Ion Ratio Lower Upper
 75 100
 77 0.9 20.4 61.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.27 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU025365.D
 Acq: 13 Jul 2018 02:25

Tgt Ion: 75 Resp: 82702
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.1 0.0 0.0#





#88

1,4-Dichlorobenzene

Concen: 1.50 ug/l

RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

Instrument :

MSVOA_U

ClientSampleId :

PB111044TB

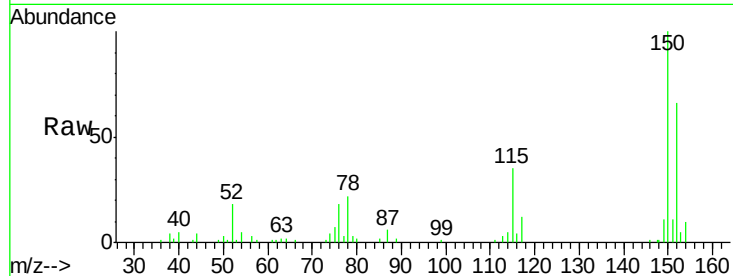
Tot Ion:146 Resp: 75

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

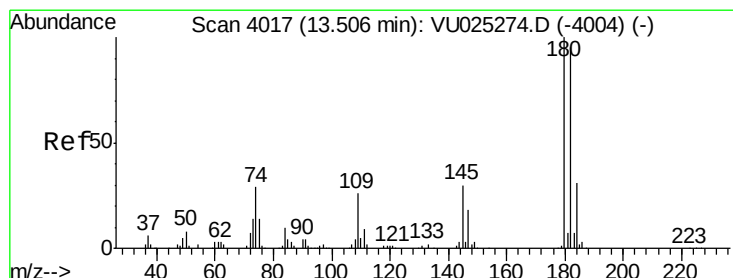
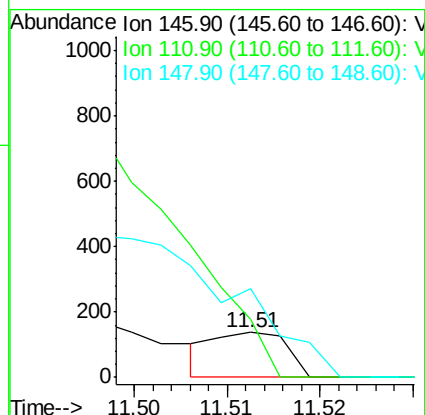
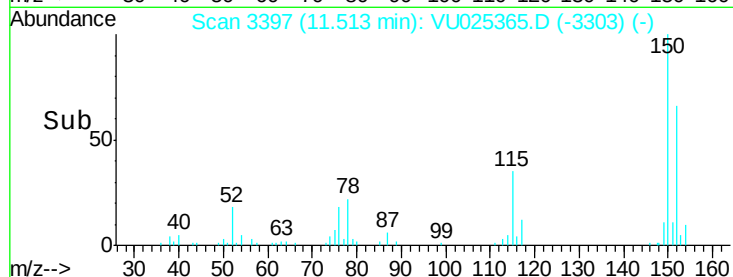
148 0.0 31.7 95.1#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 3.29 ug/l

RT: 13.53 min Scan# 4024

Delta R.T. 0.02 min

Lab File: VU025365.D

Acq: 13 Jul 2018 02:25

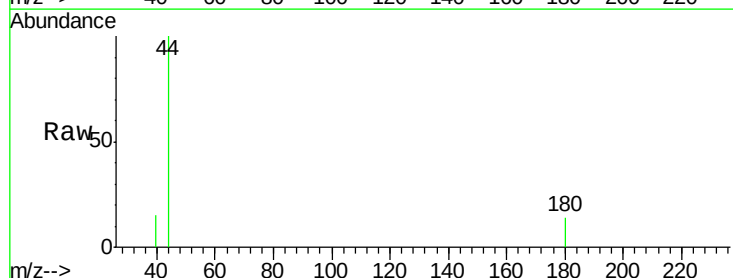
Tgt Ion:180 Resp: 21

Ion Ratio Lower Upper

180 100

182 100.0 47.3 141.9

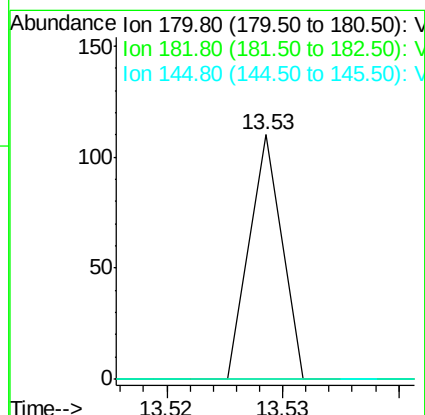
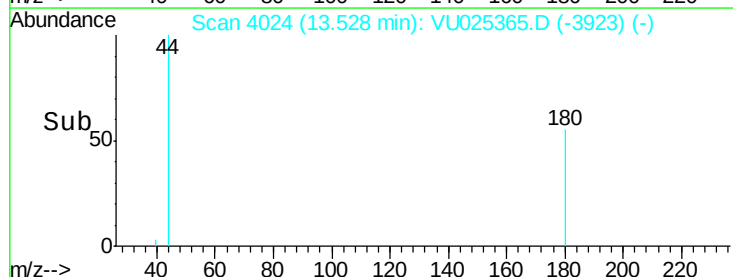
145 0.0 14.9 44.7#

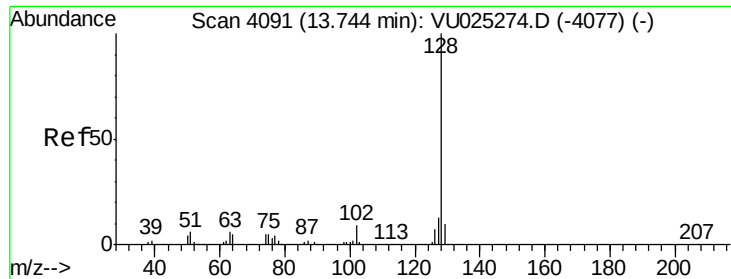


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95
 Naphthalene
 Concen: 2.48 ug/l
 RT: 13.78 min Scan# 4101
 Delta R.T. 0.03 min
 Lab File: VU025365.D
 Acq: 13 Jul 2018 02:25

Instrument :
 MSVOA_U
 ClientSampleId :
 PB111044TB

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.3	12.5#

