

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071118\
 Data File : VU025317.D
 Acq On : 11 Jul 2018 16:16
 Operator : MD/SY
 Sample : J3936-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-180710

Quant Time: Jul 12 03:12:15 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	208293	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308370	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	290093	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	147955	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	155363	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
35) Dibromofluoromethane	4.89	113	122661	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
50) Toluene-d8	7.57	98	446207	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	10.31	95	163048	45.46	ug/l	0.00
Spiked Amount			Recovery	=	90.92%	

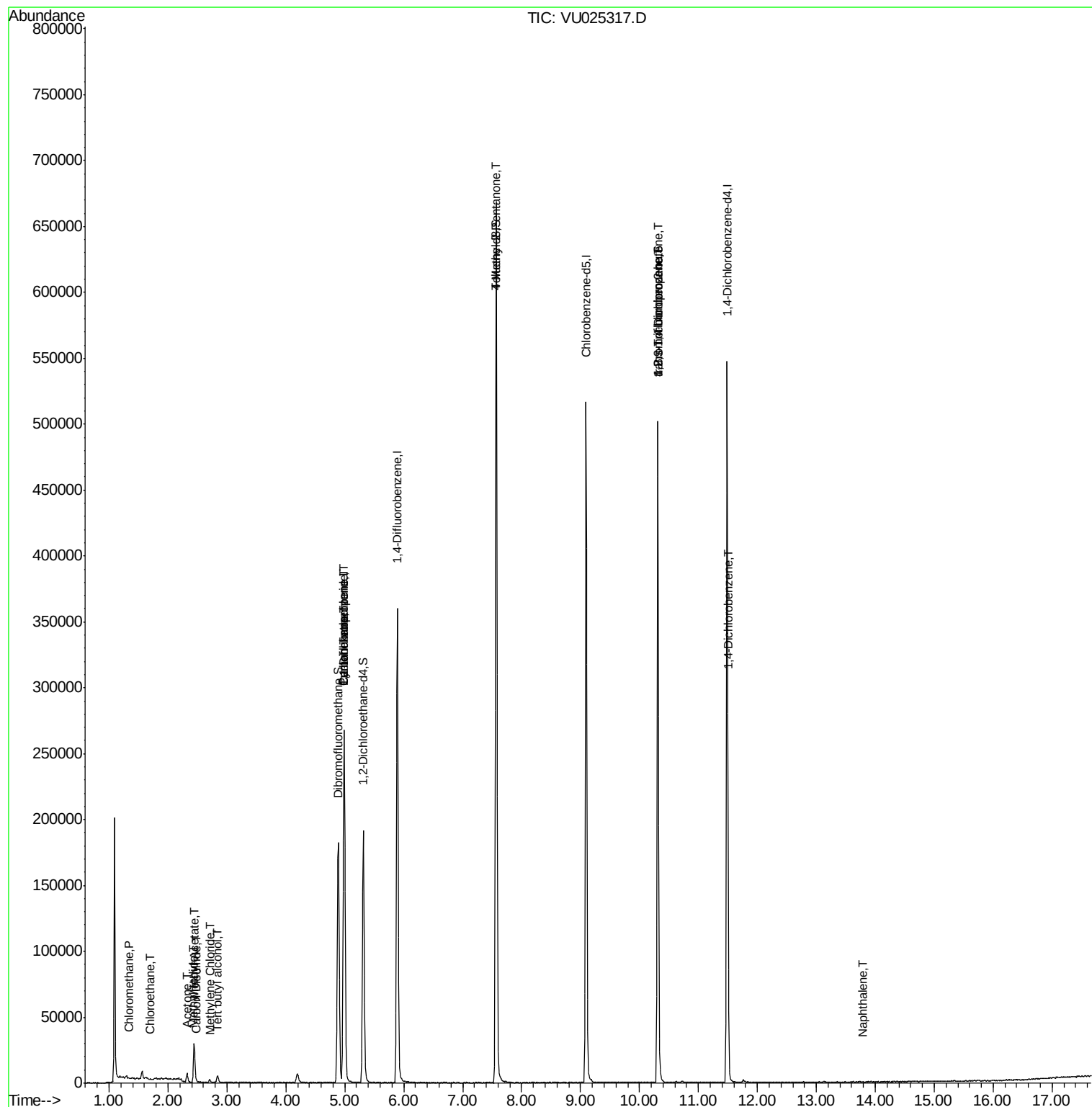
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	414	0.75	ug/l	92
5) Bromomethane	1.64	94	393	Below Cal	#	60
6) Chloroethane	1.69	64	19	0.30	ug/l #	43
10) Methyl Iodide	2.42	142	89	7.73	ug/l #	39
11) Tert butyl alcohol	2.84	59	3376	4.78	ug/l #	73
16) Acetone	2.32	43	6984	9.01	ug/l	93
17) Carbon Disulfide	2.48	76	282	1.97	ug/l #	74
18) Methyl Acetate	2.44	43	7899	2.38	ug/l #	52
20) Methylene Chloride	2.71	84	1186	1.16	ug/l	88
31) Cyclohexane	4.99	56	3828	1.67	ug/l #	17
36) 1,1-Dichloropropene	4.99	75	15646	4.56	ug/l #	49
38) Carbon Tetrachloride	4.99	117	20159	5.46	ug/l #	17
51) 4-Methyl-2-Pentanone	7.57	43	2111	0.53	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	86123	28.58	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	86123	73.06	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	93	1.50	ug/l #	1
95) Naphthalene	13.79	128	135	2.42	ug/l #	69

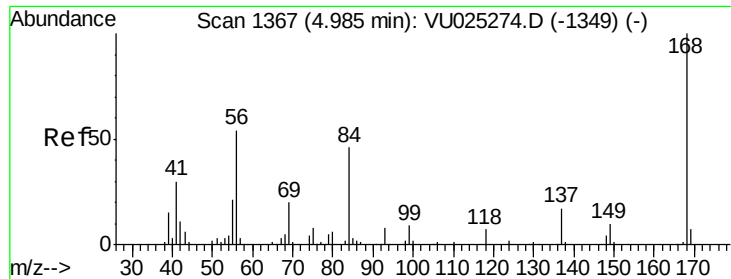
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

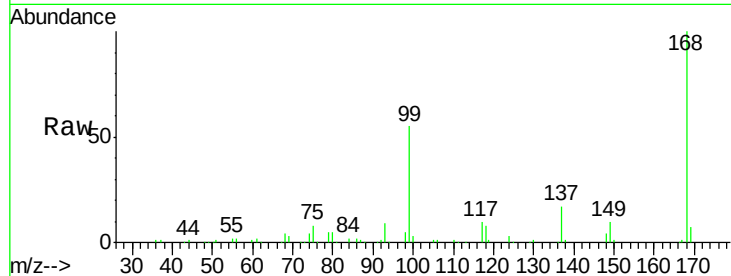
TB-01-180710

Tot Ion:168 Resp: 208293

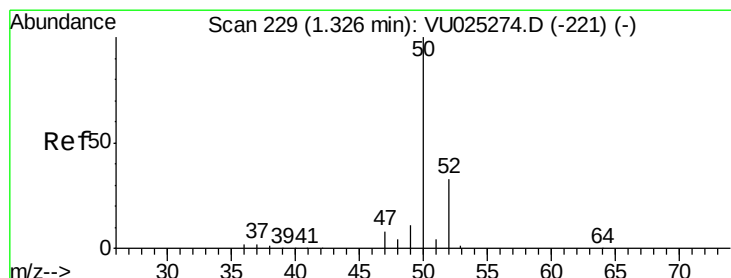
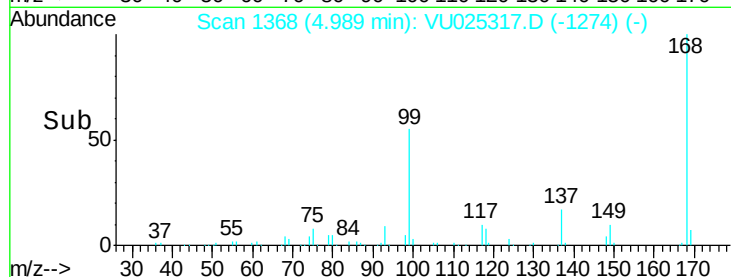
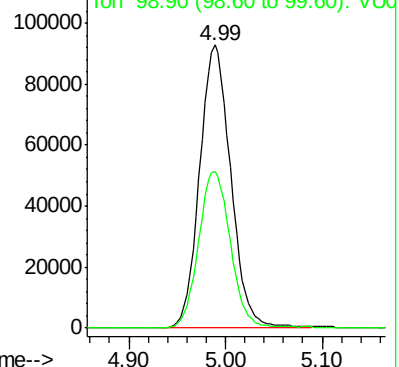
Ion Ratio Lower Upper

168 100

99 55.3 42.8 64.2



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



#3

Chloromethane

Concen: 0.75 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025317.D

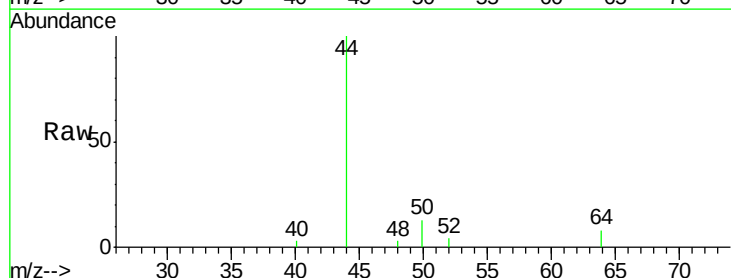
Acq: 11 Jul 2018 16:16

Tgt Ion: 50 Resp: 414

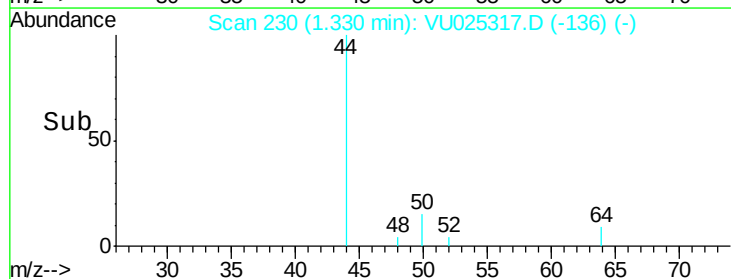
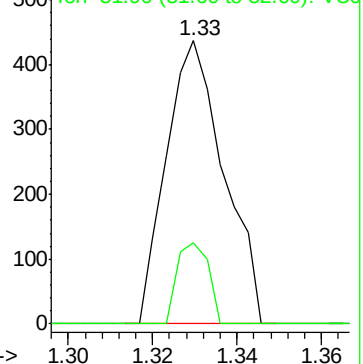
Ion Ratio Lower Upper

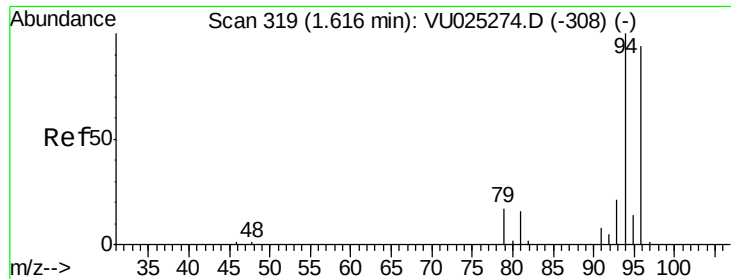
50 100

52 28.6 26.5 39.7



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





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 325

Delta R.T. 0.02 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

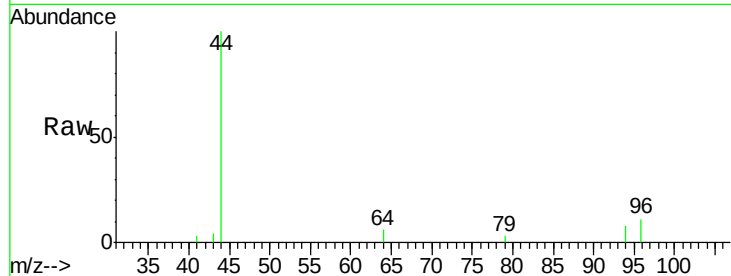
TB-01-180710

Tot Ion: 94 Resp: 393

Ion Ratio Lower Upper

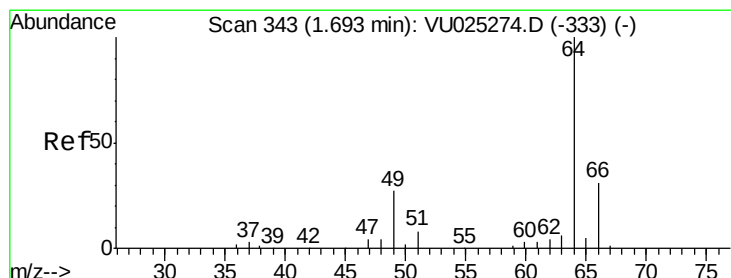
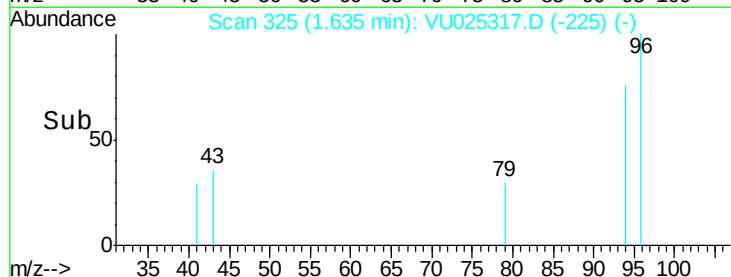
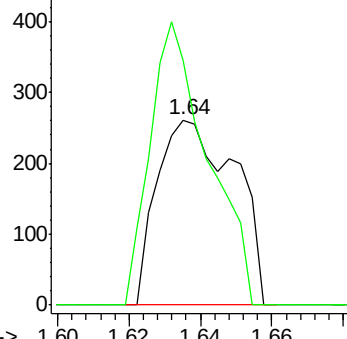
94 100

96 132.2 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.30 ug/l

RT: 1.69 min Scan# 342

Delta R.T. -0.00 min

Lab File: VU025317.D

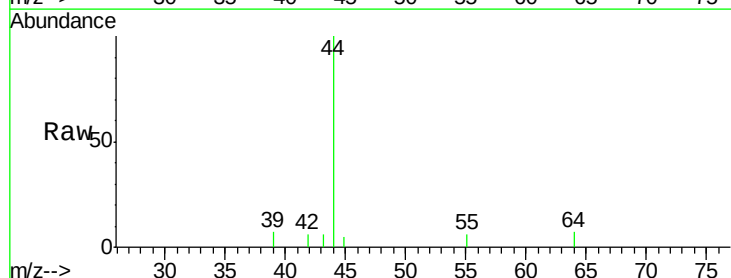
Acq: 11 Jul 2018 16:16

Tgt Ion: 64 Resp: 19

Ion Ratio Lower Upper

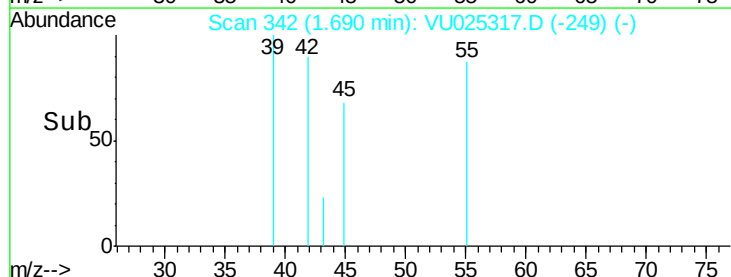
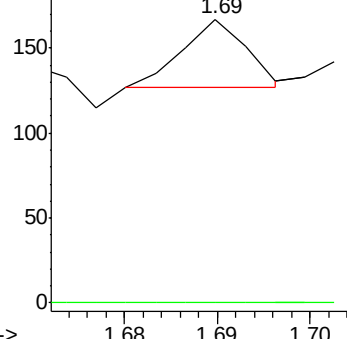
64 100

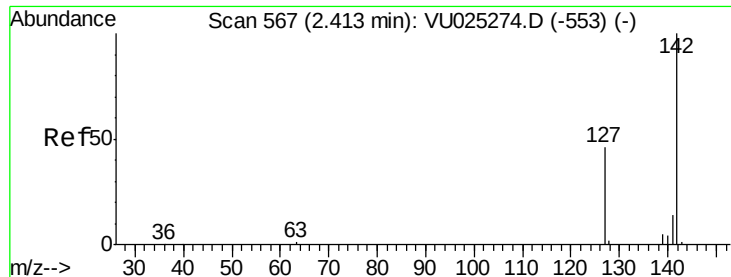
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

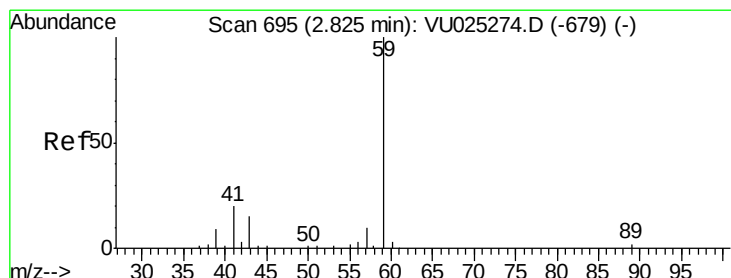
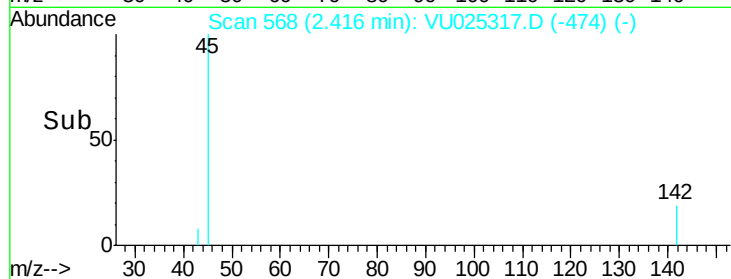
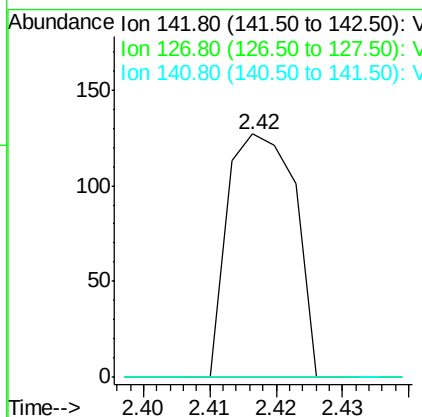
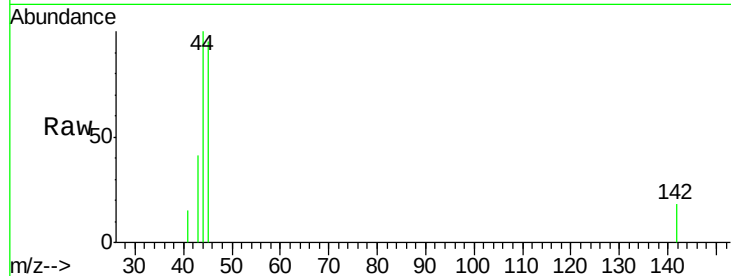




#10
Methvl Iodide
Concen: 7.73 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

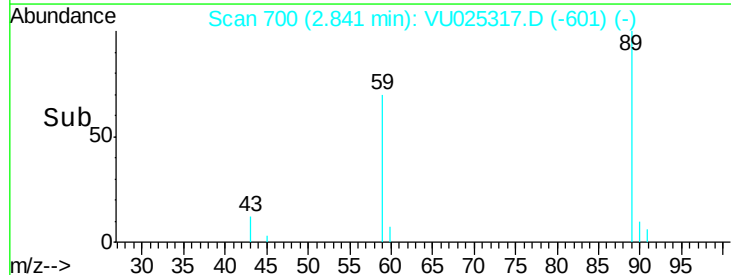
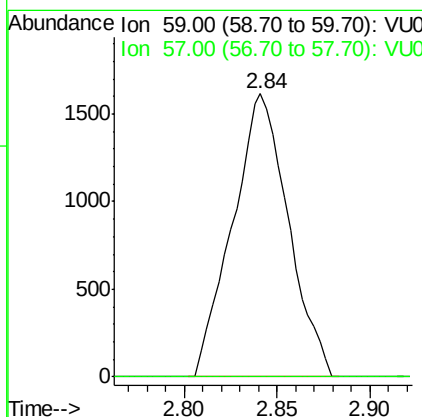
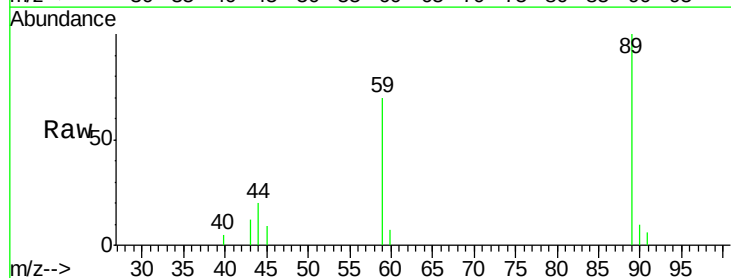
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180710

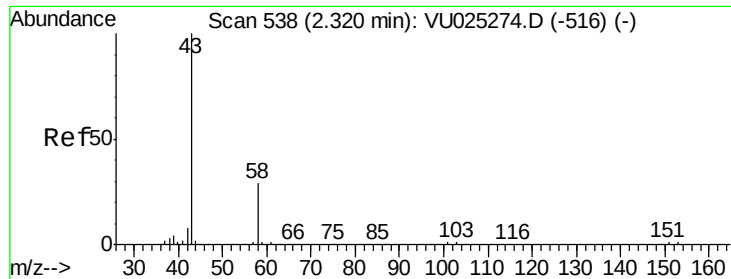
Tot Ion:142 Resp: 89
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 4.78 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

Tgt Ion: 59 Resp: 3376
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 9.01 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

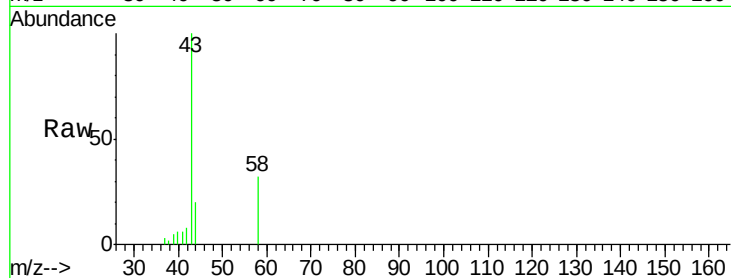
TB-01-180710

Tot Ion: 43 Resp: 6984

Ion Ratio Lower Upper

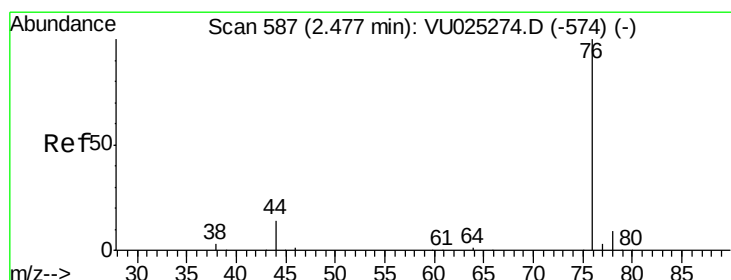
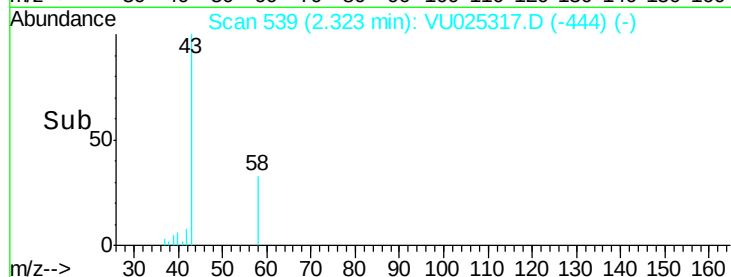
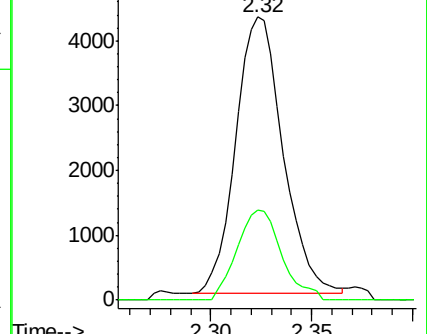
43 100

58 32.6 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: 1.97 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025317.D

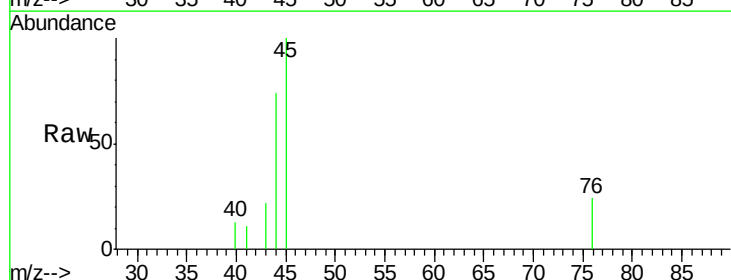
Acq: 11 Jul 2018 16:16

Tgt Ion: 76 Resp: 282

Ion Ratio Lower Upper

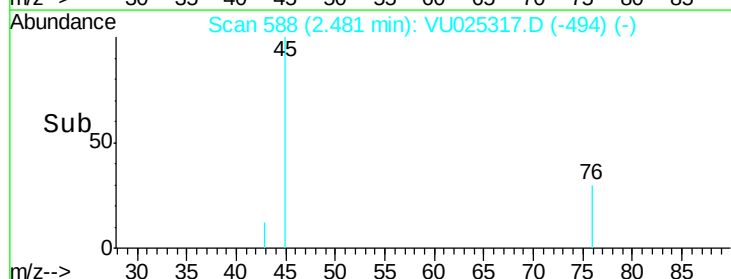
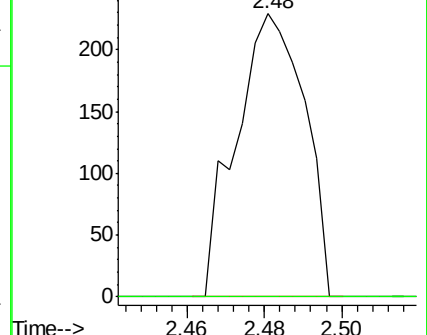
76 100

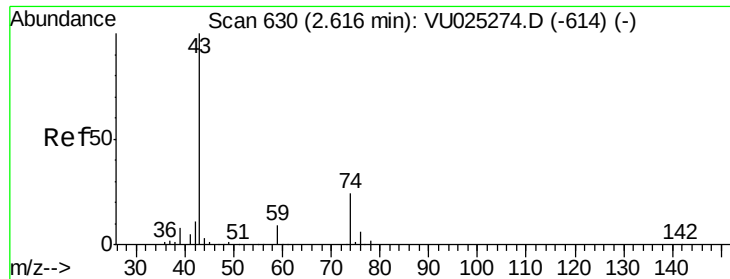
78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

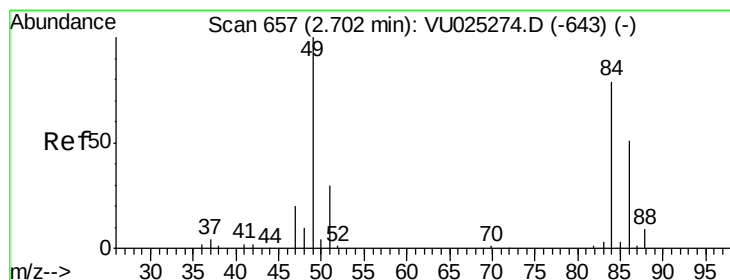
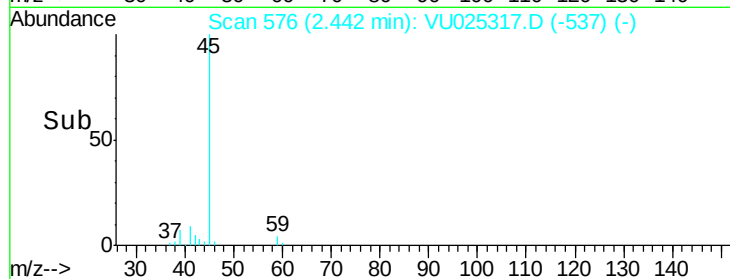
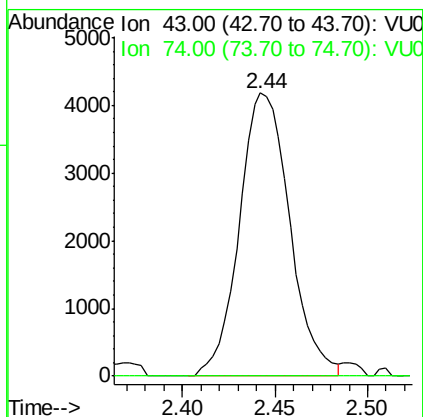
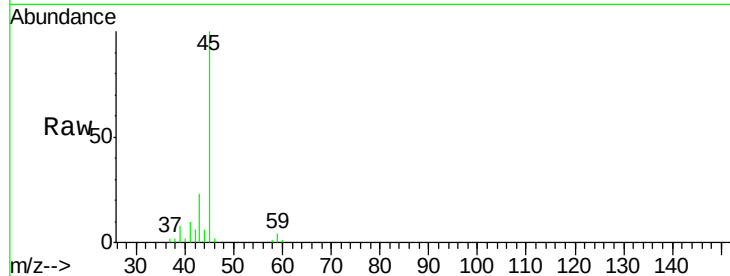




#18
Methyl Acetate
Concen: 2.38 ug/l
RT: 2.44 min Scan# 576
Delta R.T. -0.17 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

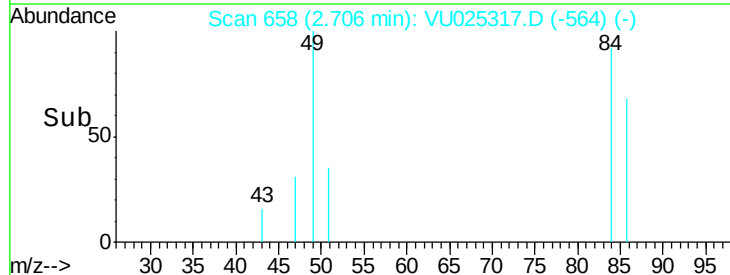
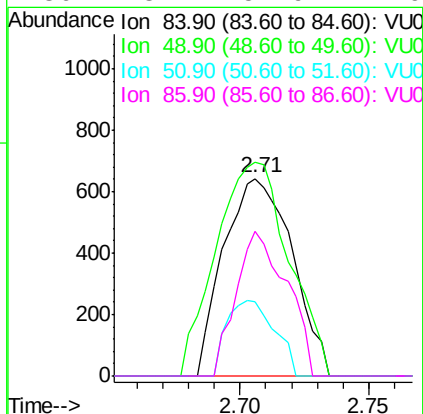
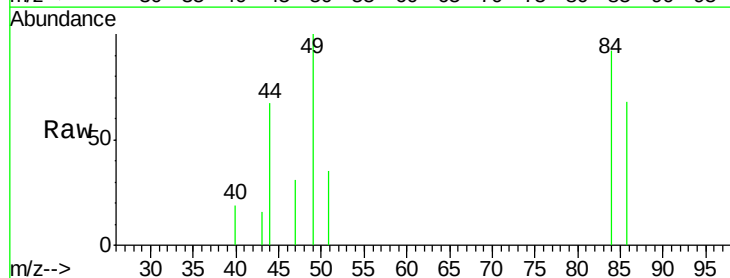
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180710

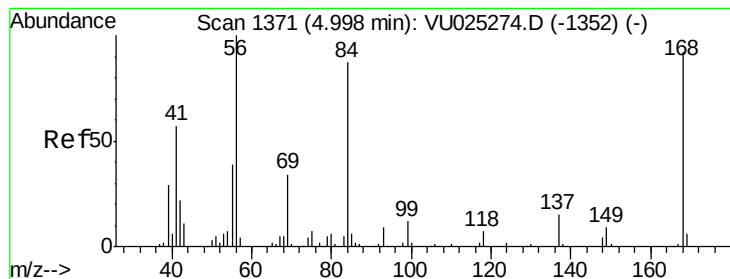
Tot Ion: 43 Resp: 7899
Ion Ratio Lower Upper
43 100
74 0.0 18.5 27.7#



#20
Methylene Chloride
Concen: 1.16 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

Tgt Ion: 84 Resp: 1186
Ion Ratio Lower Upper
84 100
49 108.3 101.8 152.6
51 37.4 30.8 46.2
86 73.2 51.9 77.9





#31

Cyclohexane

Concen: 1.67 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180710

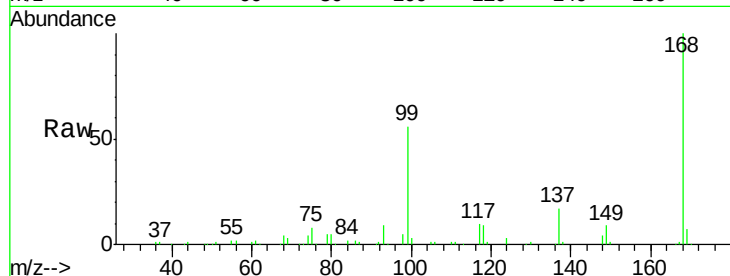
Tot Ion: 56 Resp: 3828

Ion Ratio Lower Upper

56 100

69 156.7 26.8 40.2#

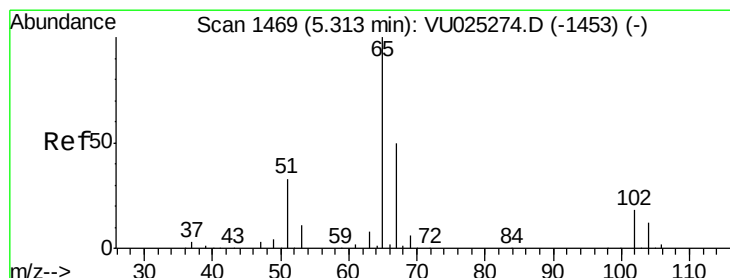
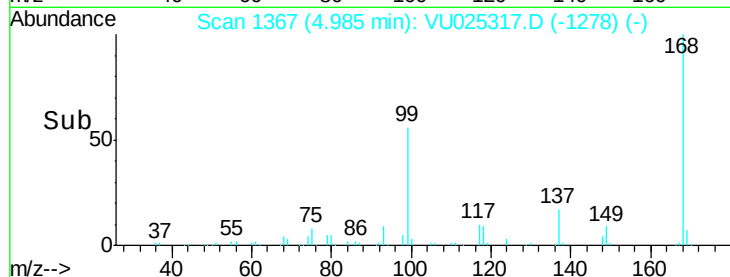
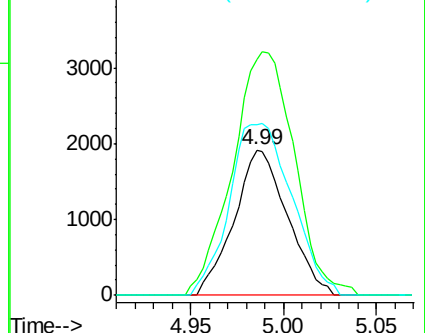
84 117.0 69.7 104.5#



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: 48.01 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025317.D

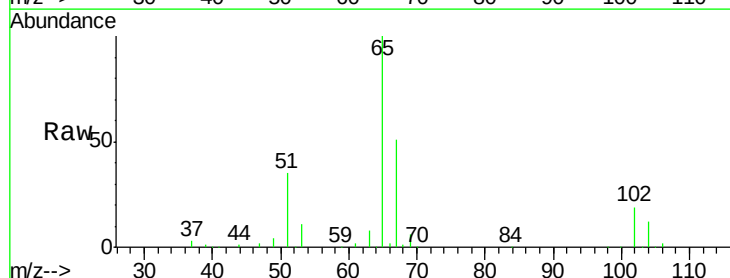
Acq: 11 Jul 2018 16:16

Tgt Ion: 65 Resp: 155363

Ion Ratio Lower Upper

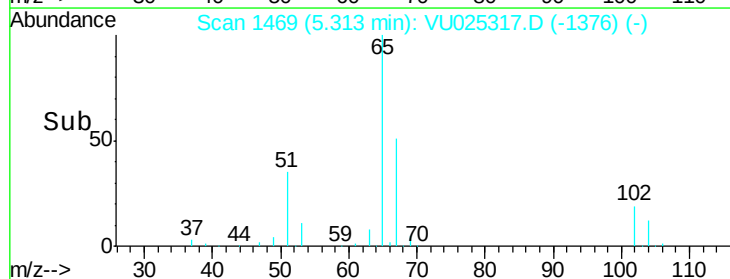
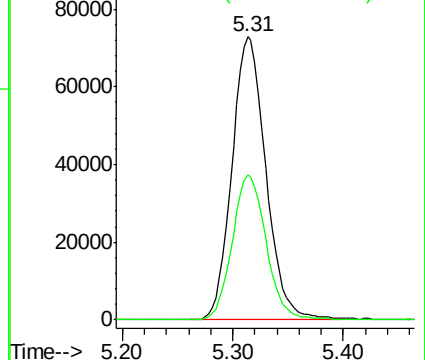
65 100

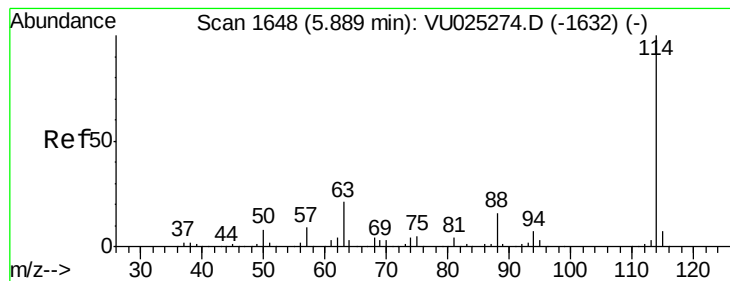
67 51.1 0.0 103.6



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: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180710

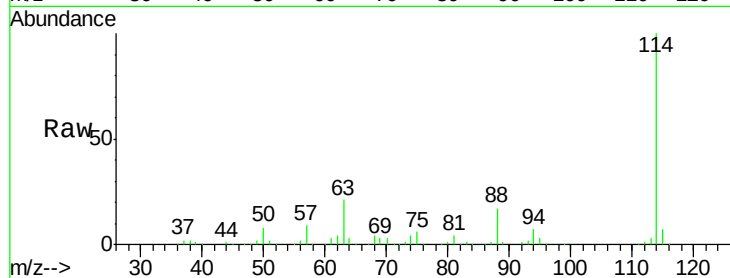
Tot Ion:114 Resp: 308370

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.6

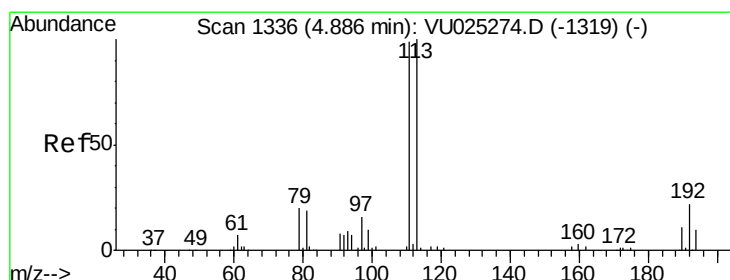
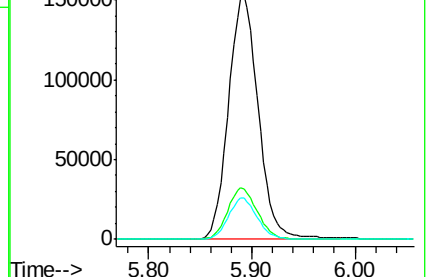
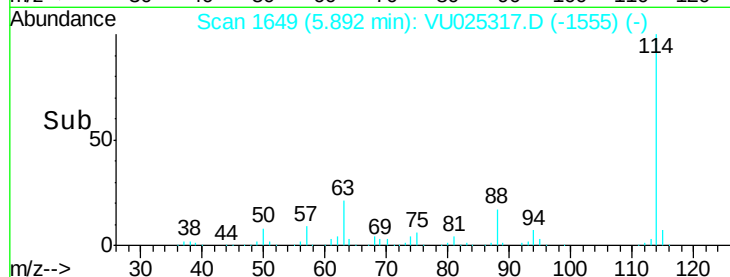
88 16.9 0.0 32.4



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: 47.15 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

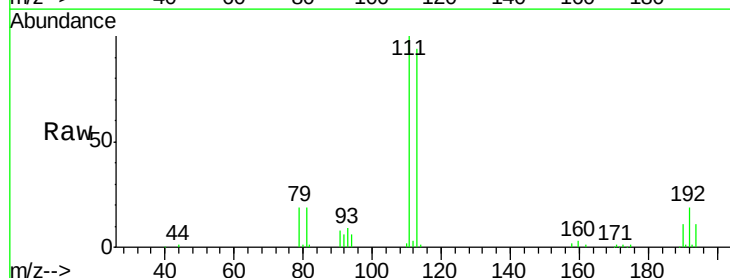
Tgt Ion:113 Resp: 122661

Ion Ratio Lower Upper

113 100

111 102.9 81.7 122.5

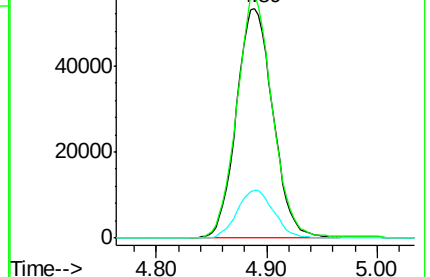
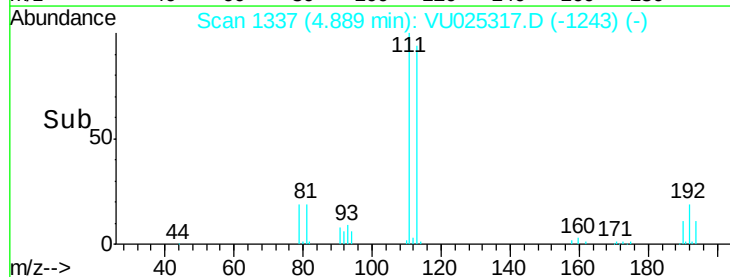
192 20.7 17.1 25.7

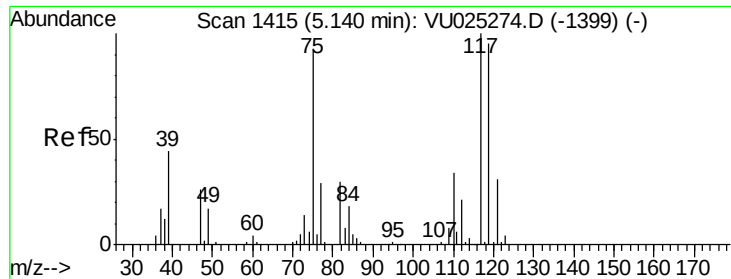


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.56 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180710

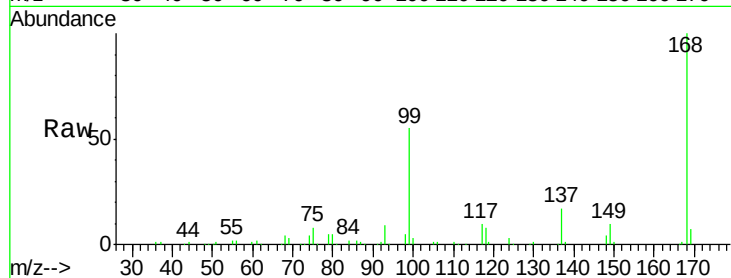
Tot Ion: 75 Resp: 15646

Ion Ratio Lower Upper

75 100

110 7.7 17.6 52.9#

77 0.0 24.4 36.6#



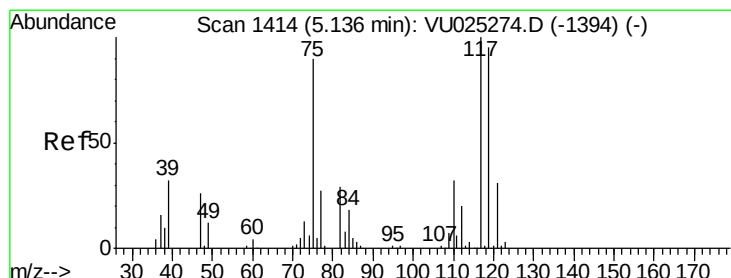
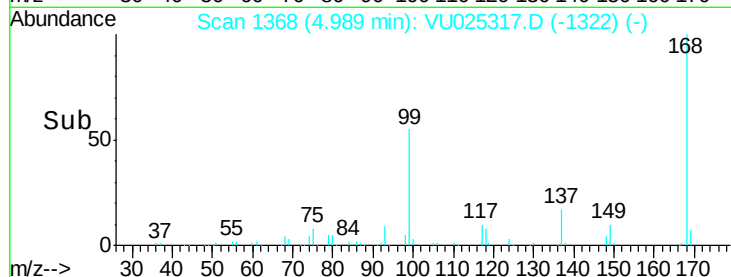
Abundance Ion 74.90 (74.60 to 75.60): VU025274.D (-1399) (-)

Ion 109.90 (109.60 to 110.60): VU025274.D (-1399) (-)

Ion 76.90 (76.60 to 77.60): VU025274.D (-1399) (-)

Time-->

4.90 4.95 5.00 5.05 5.10



#38

Carbon Tetrachloride

Concen: 5.46 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

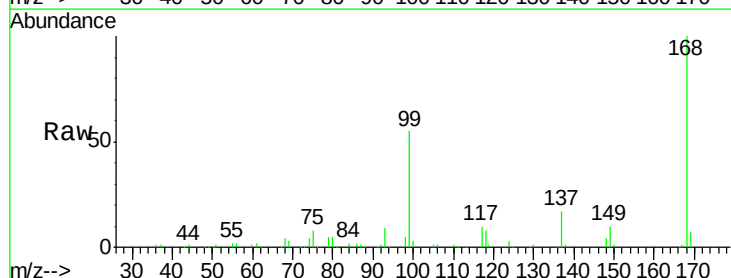
Tgt Ion: 117 Resp: 20159

Ion Ratio Lower Upper

117 100

119 5.5 75.7 113.5#

121 0.0 24.6 36.8#



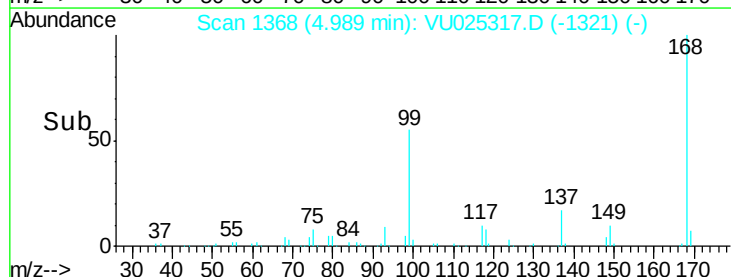
Abundance Ion 116.80 (116.50 to 117.50): VU025274.D (-1394) (-)

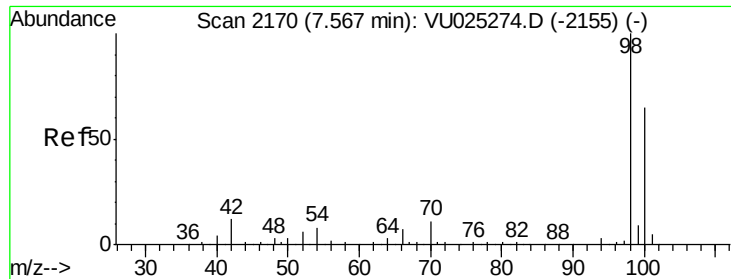
Ion 118.80 (118.50 to 119.50): VU025274.D (-1394) (-)

Ion 120.80 (120.50 to 121.50): VU025274.D (-1394) (-)

Time-->

4.90 4.95 5.00 5.05 5.10

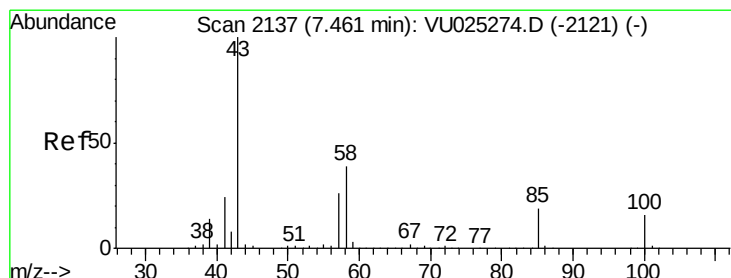
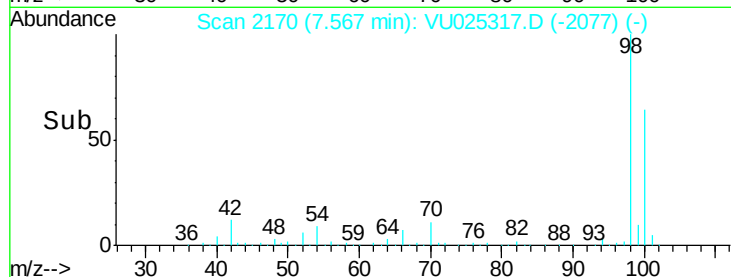
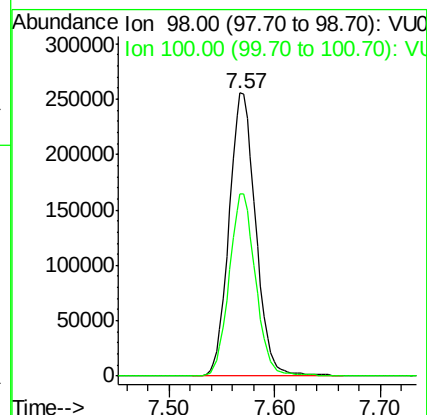
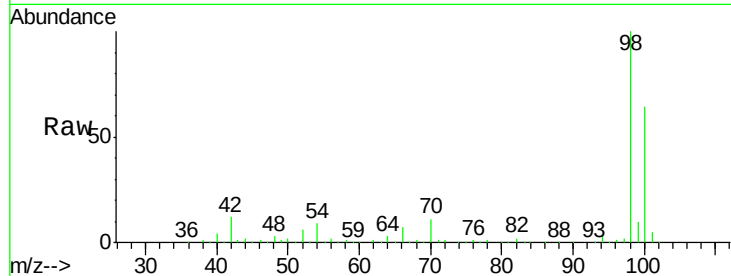




#50
Toluene-d8
Concen: 50.09 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

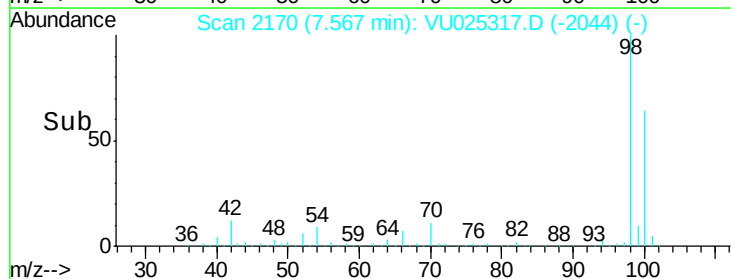
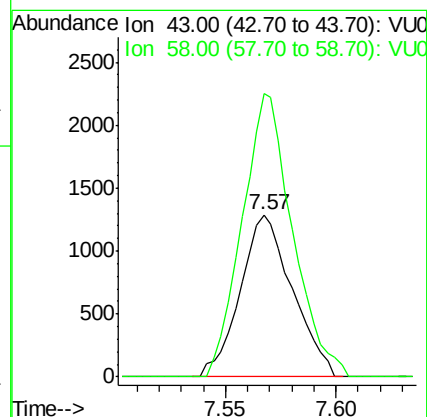
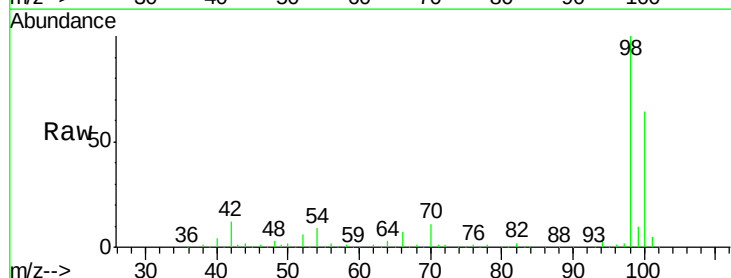
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180710

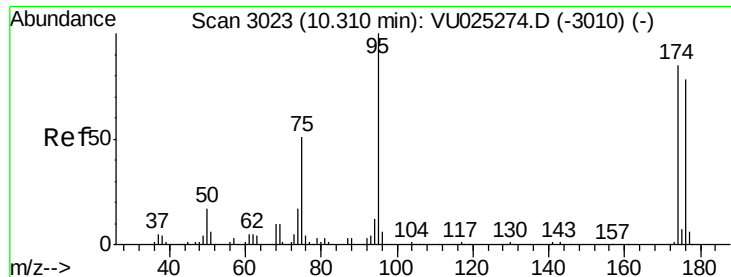
Tot Ion: 98 Resp: 446207
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.53 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.11 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

Tgt Ion: 43 Resp: 2111
Ion Ratio Lower Upper
43 100
58 169.3 31.0 46.4#





#62

4-Bromofluorobenzene

Concen: 45.46 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180710

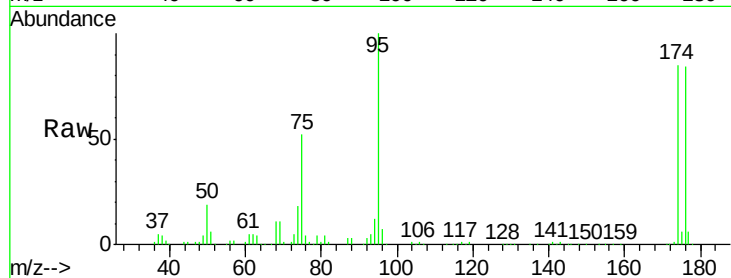
Tot Ion: 95 Resp: 163048

Ion Ratio Lower Upper

95 100

174 85.4 0.0 172.2

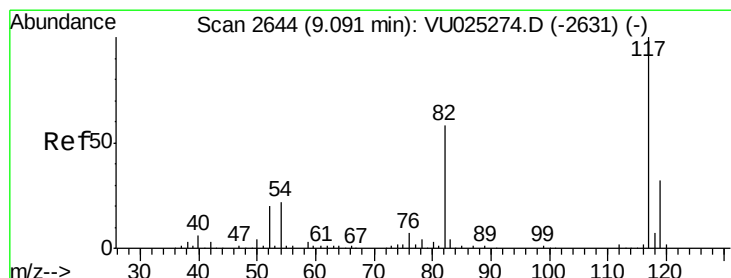
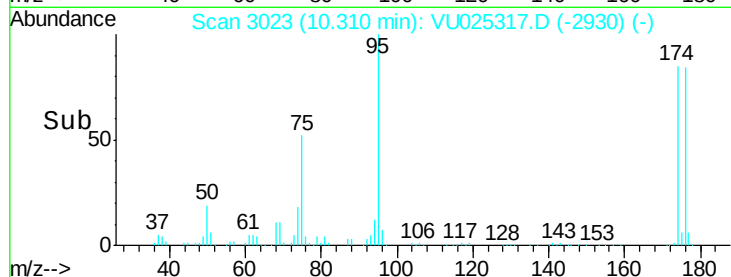
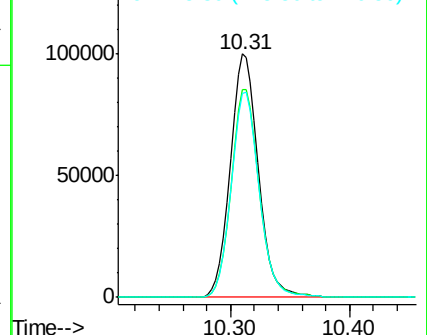
176 84.0 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025317.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025317.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025317.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

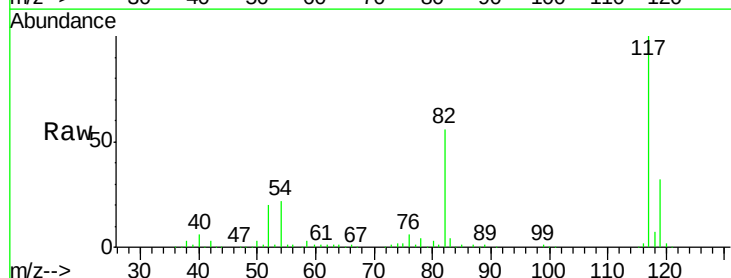
Tgt Ion: 117 Resp: 290093

Ion Ratio Lower Upper

117 100

82 55.8 46.0 69.0

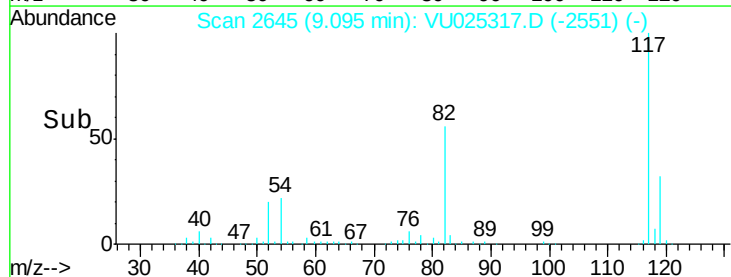
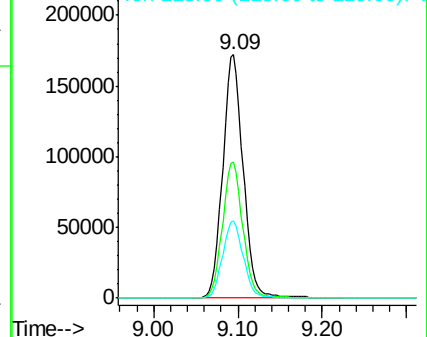
119 31.6 26.0 39.0

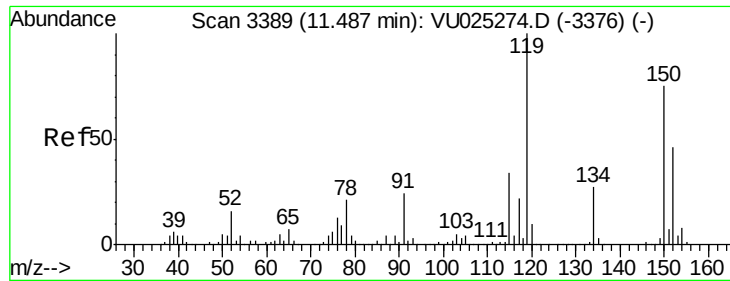


Abundance Ion 116.90 (116.60 to 117.60): VU025317.D (-2551) (-)

Ion 82.00 (81.70 to 82.70): VU025317.D (-2551) (-)

Ion 118.90 (118.60 to 119.60): VU025317.D (-2551) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025317.D

Acq: 11 Jul 2018 16:16

Instrument :

MSVOA_U

ClientSampleId :

TB-01-180710

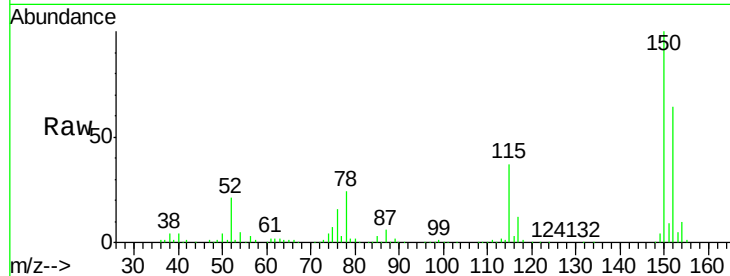
Tot Ion:152 Resp: 147955

Ion Ratio Lower Upper

152 100

115 57.9 40.1 120.3

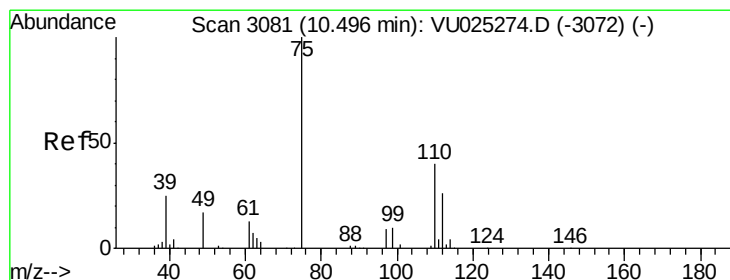
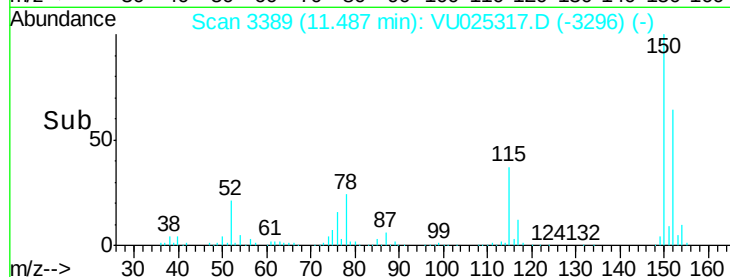
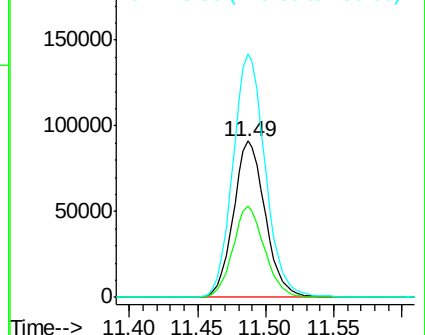
150 158.4 0.0 351.4



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: 28.58 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025317.D

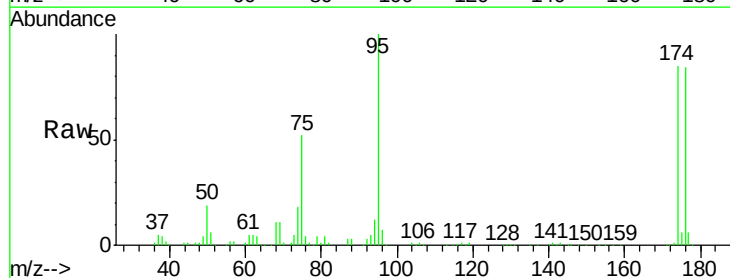
Acq: 11 Jul 2018 16:16

Tgt Ion: 75 Resp: 86123

Ion Ratio Lower Upper

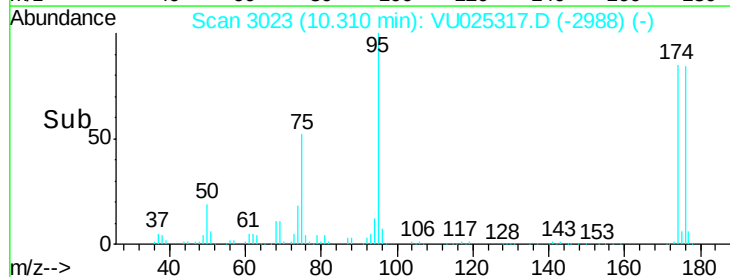
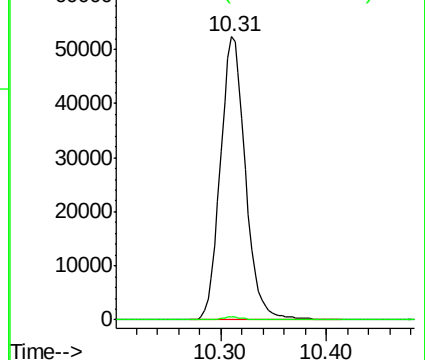
75 100

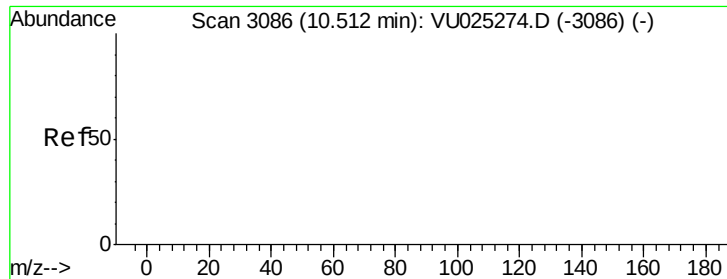
77 0.8 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

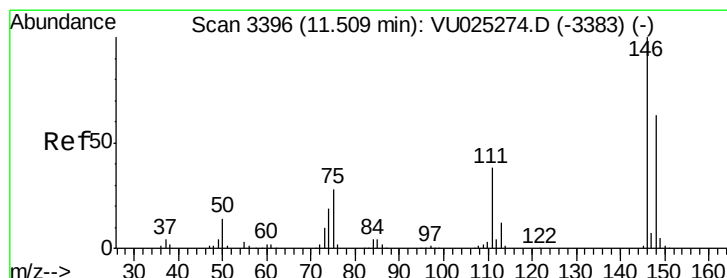
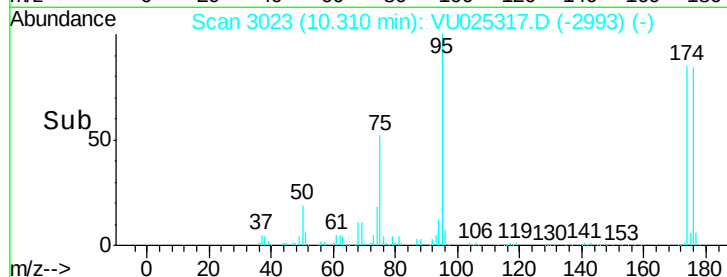
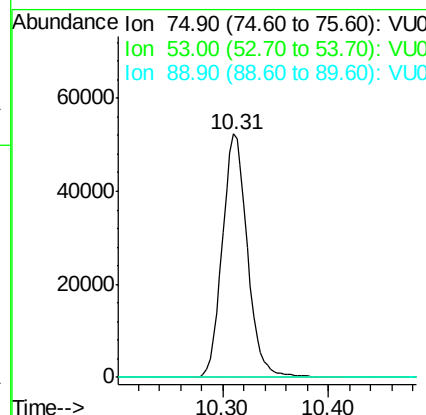
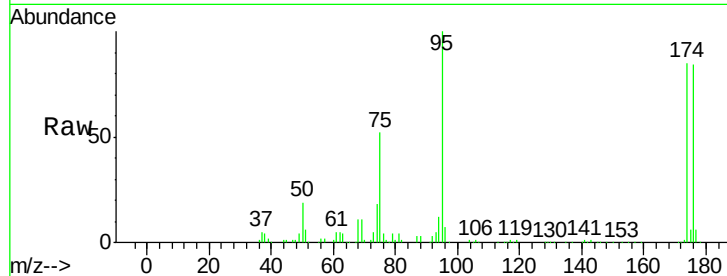




#81
trans-1,4-Dichloro-2-butene
Concen: 73.06 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

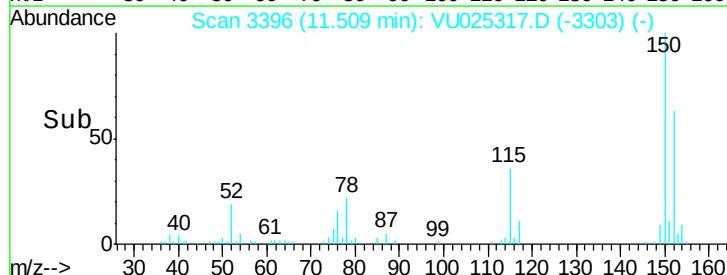
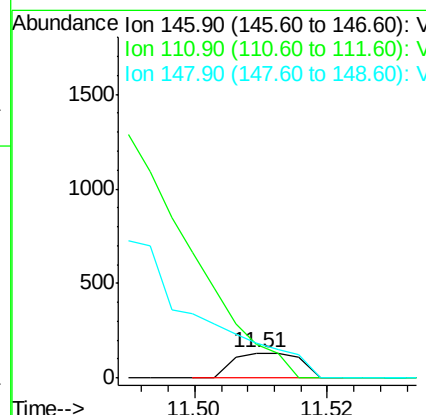
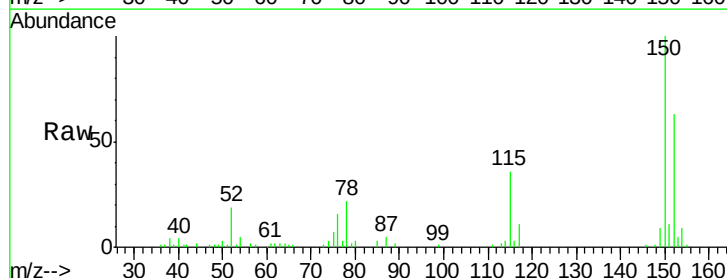
Instrument :
MSVOA_U
ClientSampleId :
TB-01-180710

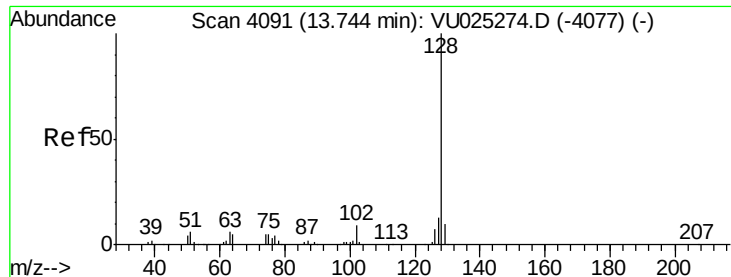
Tot Ion: 75 Resp: 86123
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0#



#88
1,4-Dichlorobenzene
Concen: 1.50 ug/l
RT: 11.51 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VU025317.D
Acq: 11 Jul 2018 16:16

Tgt Ion: 146 Resp: 93
Ion Ratio Lower Upper
146 100
111 2074.2 19.4 58.1#
148 976.3 31.7 95.1#





#95
 Naphthalene
 Concen: 2.42 ug/l
 RT: 13.79 min Scan# 4106
 Delta R.T. 0.05 min
 Lab File: VU025317.D
 Acq: 11 Jul 2018 16:16

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-180710

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

