

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024516.D
 Acq On : 13 Jun 2018 18:32
 Operator : MD/SY
 Sample : PB110190ZHE#15
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#15

Quant Time: Jun 14 02:19:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	184642	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	316895	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	305456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	179338	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	148978	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
35) Dibromofluoromethane	4.89	113	128966	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	7.57	98	468725	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	10.31	95	184959	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	

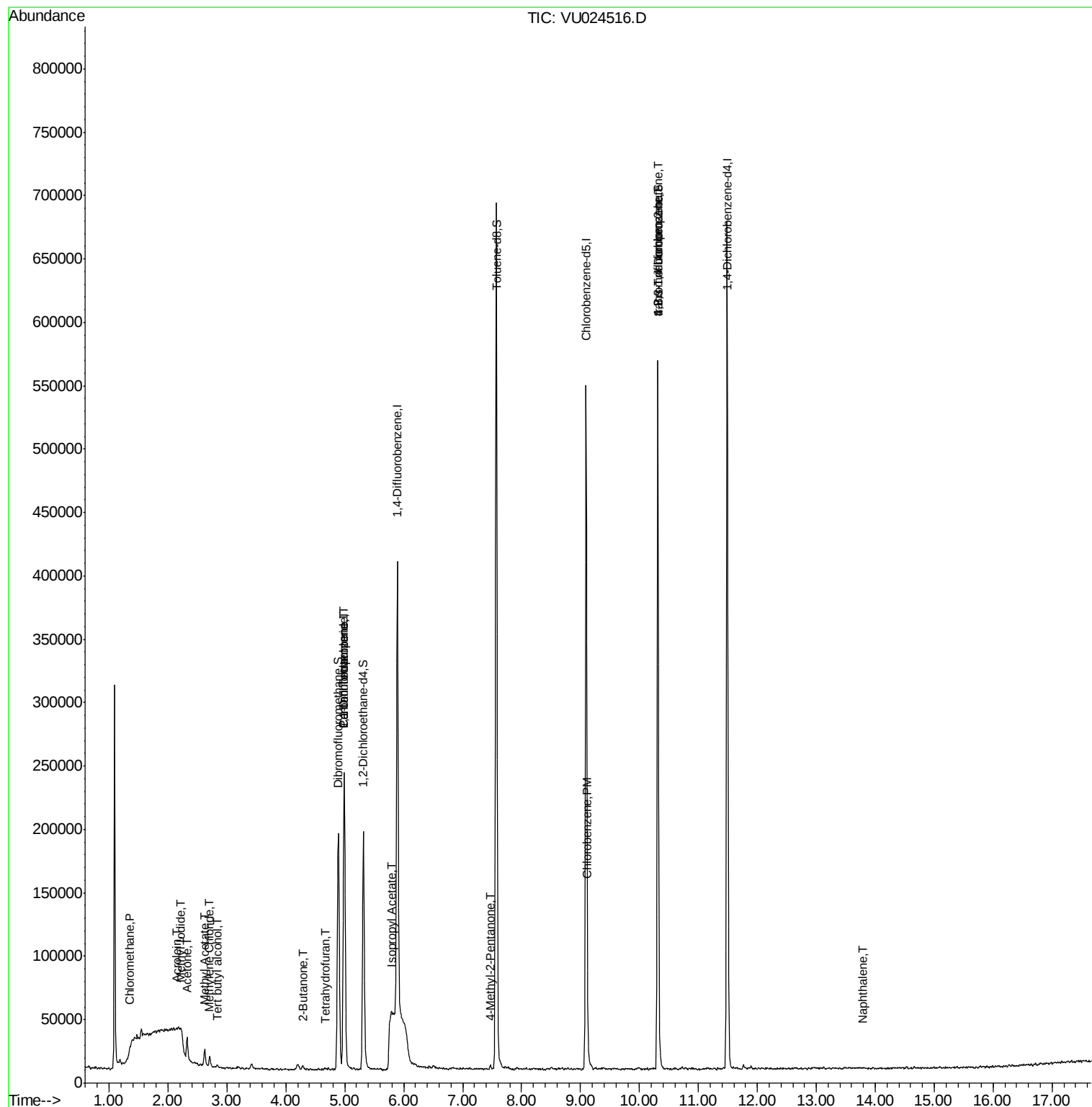
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	527	0.22	ug/l	# 72
6) Chloroethane	1.69	64	94	Below	Cal	# 56
8) Diethyl Ether	2.19	74	101	Below	Cal	# 59
10) Methyl Iodide	2.22	142	19	5.30	ug/l	# 1
11) Tert butyl alcohol	2.84	59	1258	1.72	ug/l	# 76
13) Acrolein	2.15	56	128	0.33	ug/l	# 1
16) Acetone	2.33	43	17395	10.74	ug/l	96
18) Methyl Acetate	2.62	43	15372	4.43	ug/l	95
20) Methylene Chloride	2.71	84	3563	1.40	ug/l	95
25) 2-Butanone	4.28	43	4390	2.02	ug/l	91
29) Tetrahydrofuran	4.65	42	960	0.71	ug/l	# 89
31) Cyclohexane	4.99	56	3893	Below	Cal	# 3
36) 1,1-Dichloropropene	4.99	75	13468	3.62	ug/l	# 54
38) Carbon Tetrachloride	4.99	117	17735	4.33	ug/l	# 17
43) Isopropyl Acetate	5.80	43	55860	7.96	ug/l	# 62
51) 4-Methyl-2-Pentanone	7.47	43	3394	0.77	ug/l	96
65) Chlorobenzene	9.12	112	4578	0.59	ug/l	96
76) 1,2,3-Trichloropropane	10.31	75	94025	23.81	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	94025	55.11	ug/l	# 100
95) Naphthalene	13.78	128	456	0.71	ug/l	# 85

(#) = 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: VU024516.D

Acq: 13 Jun 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

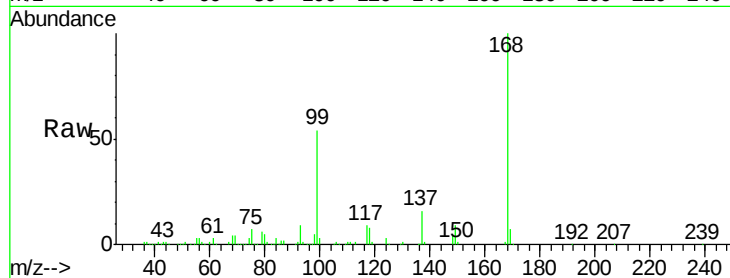
PB110190ZHE#15

Tgt Ion:168 Resp: 184642

Ion Ratio Lower Upper

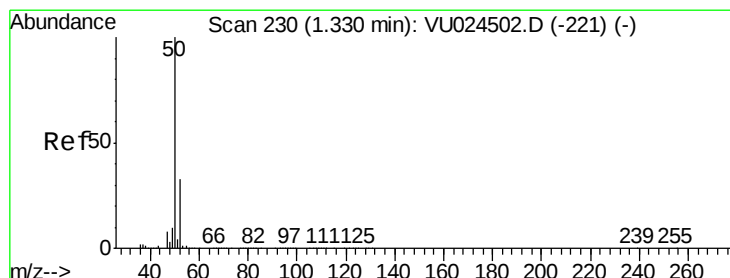
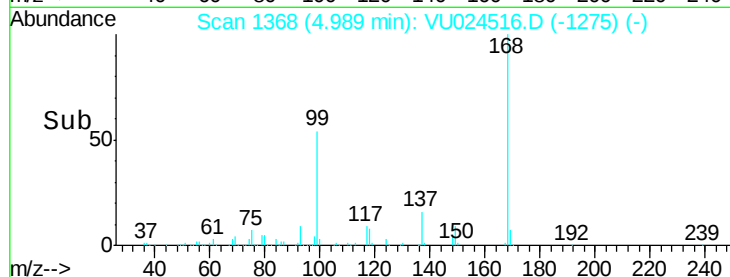
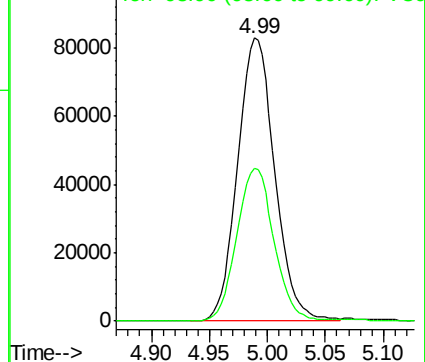
168 100

99 53.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.34 min Scan# 232

Delta R.T. 0.01 min

Lab File: VU024516.D

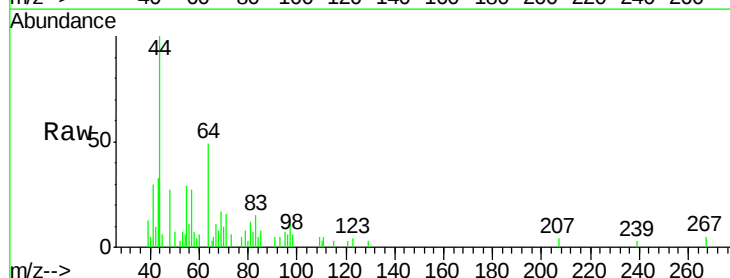
Acq: 13 Jun 2018 18:32

Tgt Ion: 50 Resp: 527

Ion Ratio Lower Upper

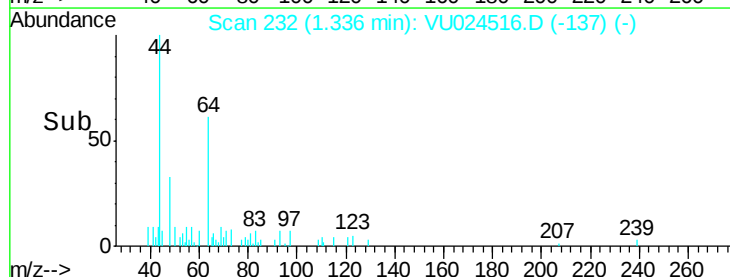
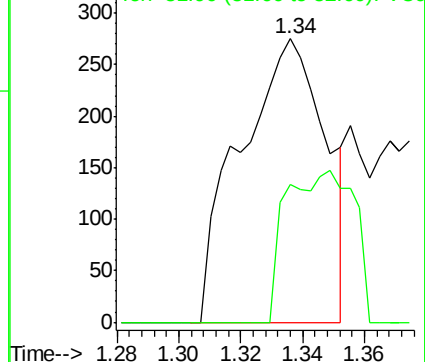
50 100

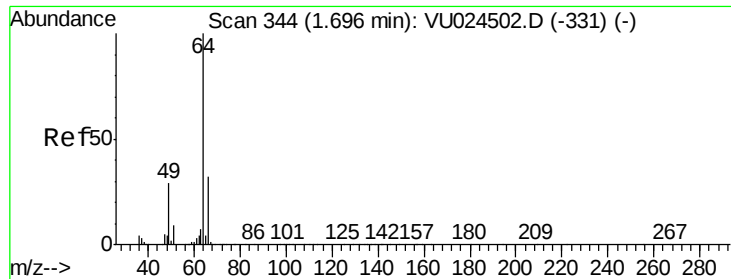
52 48.7 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

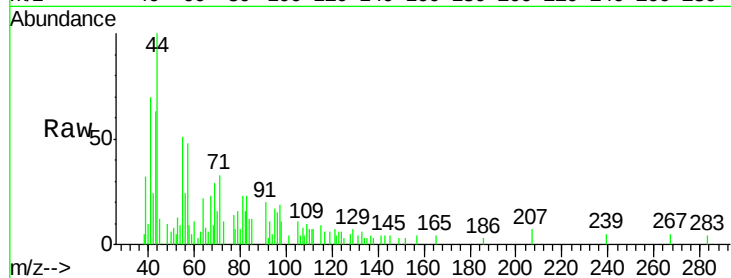
PB110190ZHE#15

Tgt Ion: 64 Resp: 94

Ion Ratio Lower Upper

64 100

66 7.3 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.69

800

600

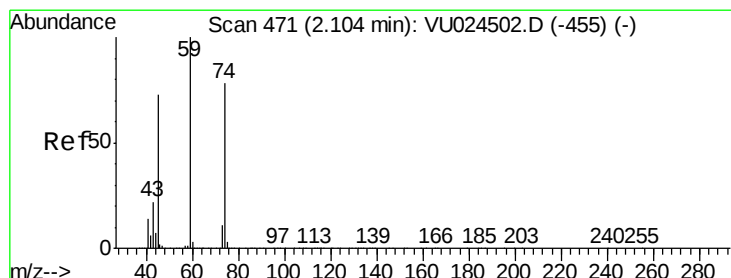
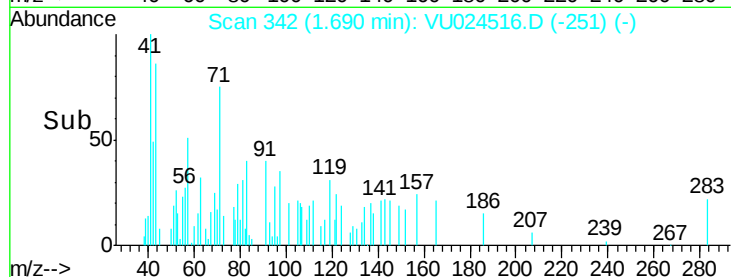
400

200

0

1.68 1.69 1.70

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 499

Delta R.T. 0.09 min

Lab File: VU024516.D

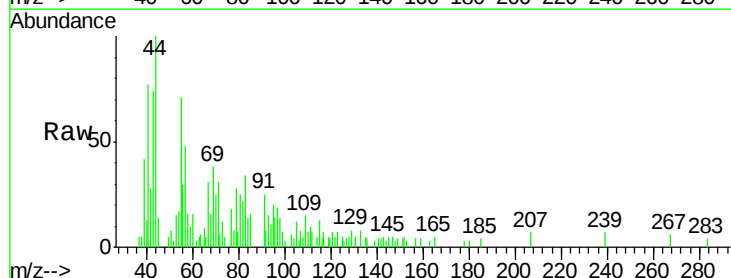
Acq: 13 Jun 2018 18:32

Tgt Ion: 74 Resp: 101

Ion Ratio Lower Upper

74 100

45 153.5 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

500

400

300

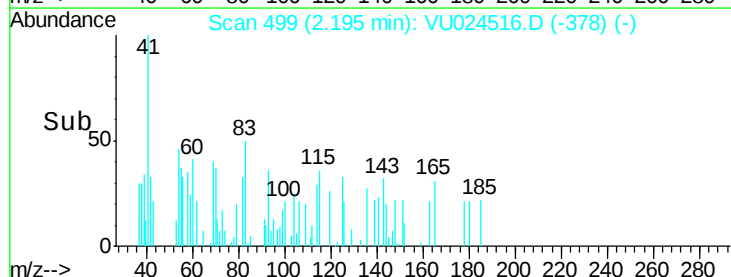
200

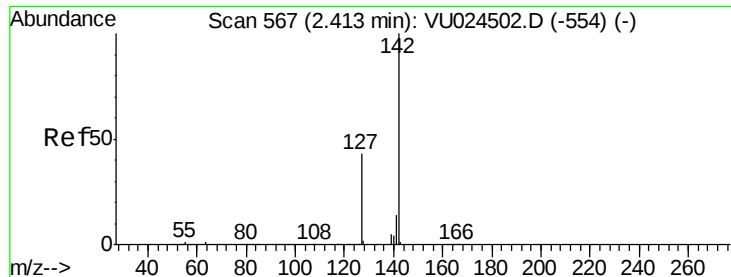
100

0

2.18 2.19 2.20 2.21

Time-->

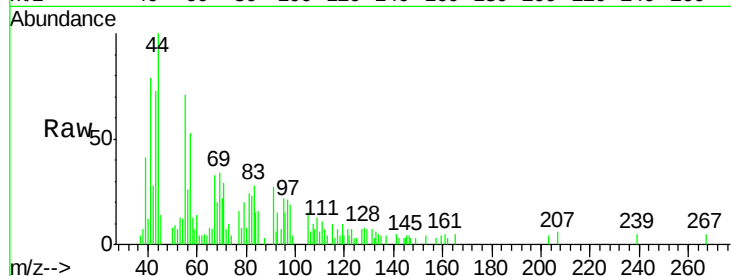




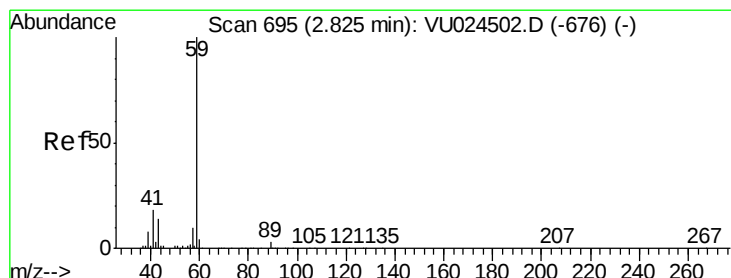
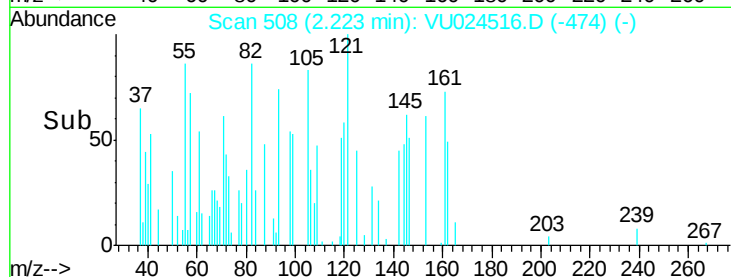
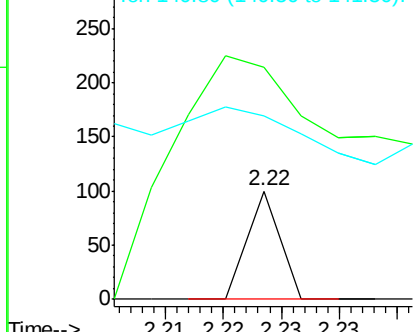
#10
Methyl Iodide
Concen: 5.30 ug/l
RT: 2.22 min Scan# 508
Delta R.T. -0.19 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#15

Tgt Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 1878.9 35.6 53.4#
141 0.0 11.7 17.5#

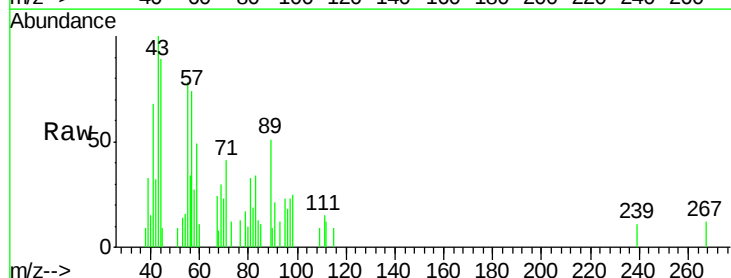


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

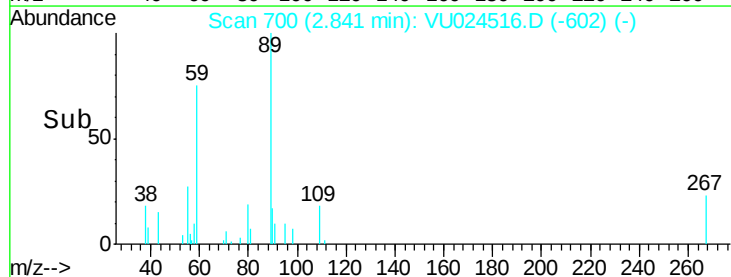
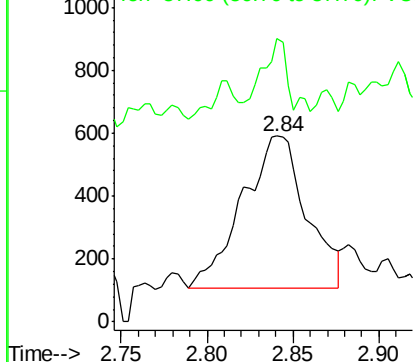


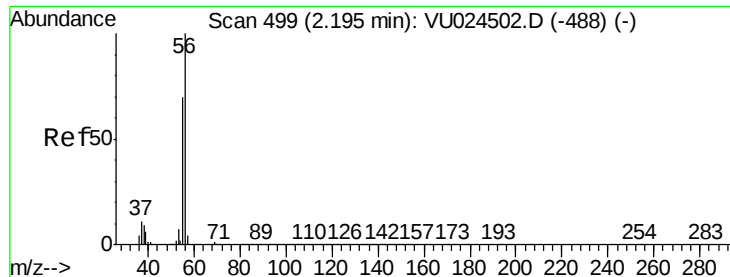
#11
Tert butyl alcohol
Concen: 1.72 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion: 59 Resp: 1258
Ion Ratio Lower Upper
59 100
57 19.6 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.33 ug/l

RT: 2.15 min Scan# 486

Delta R.T. -0.04 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

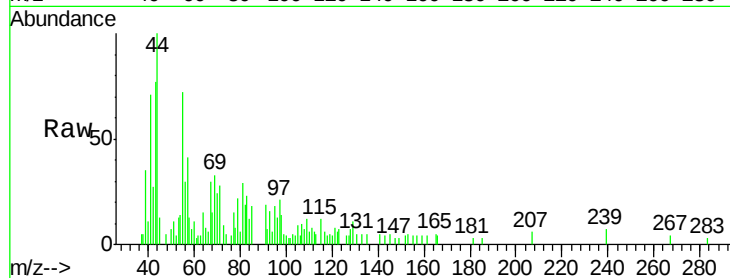
PB110190ZHE#15

Tgt Ion: 56 Resp: 128

Ion Ratio Lower Upper

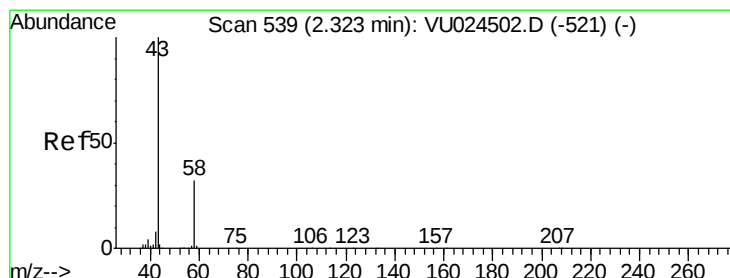
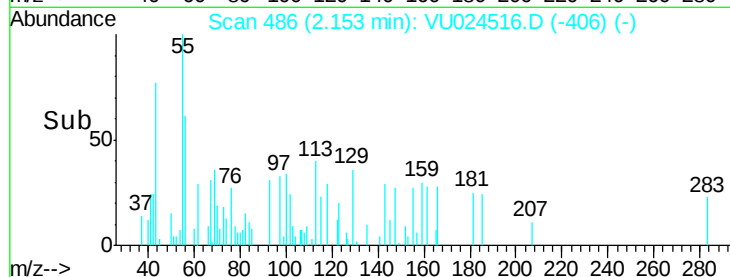
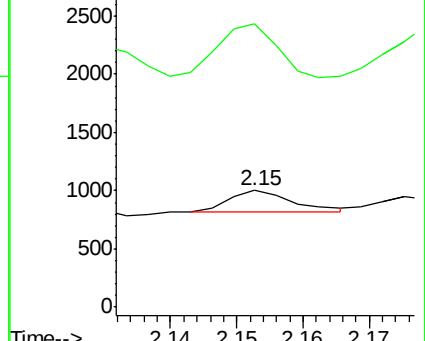
56 100

55 218.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 10.74 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024516.D

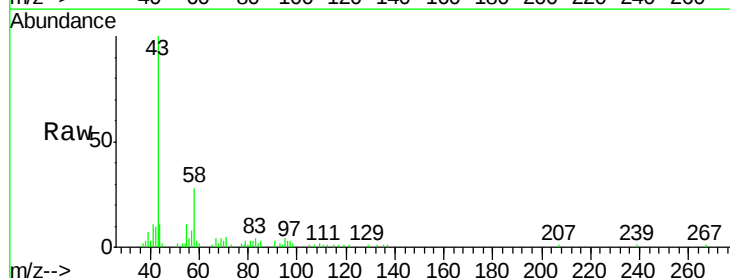
Acq: 13 Jun 2018 18:32

Tgt Ion: 43 Resp: 17395

Ion Ratio Lower Upper

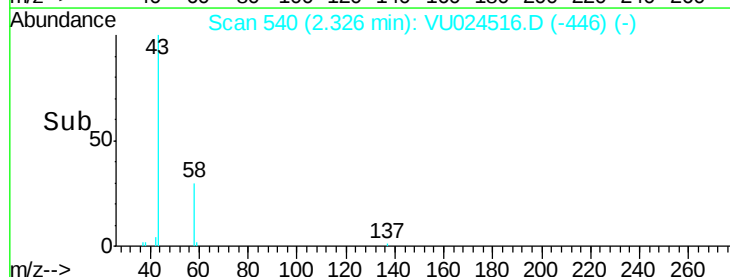
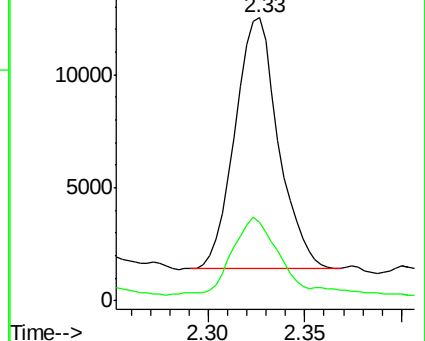
43 100

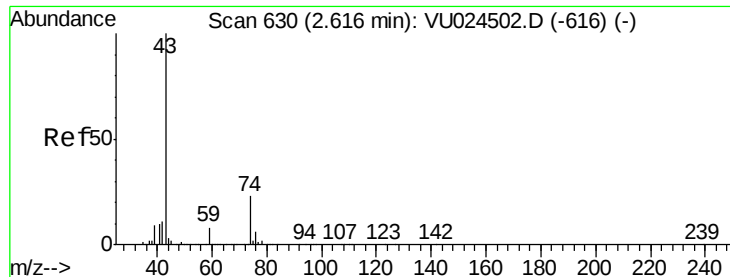
58 28.2 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

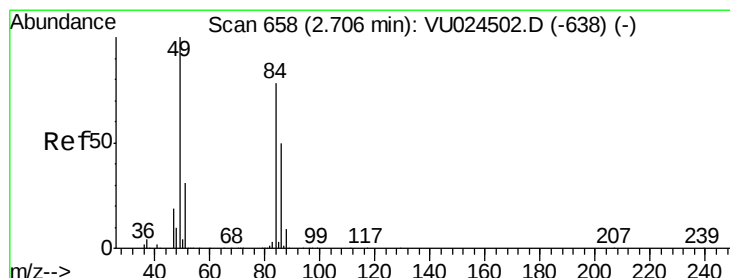
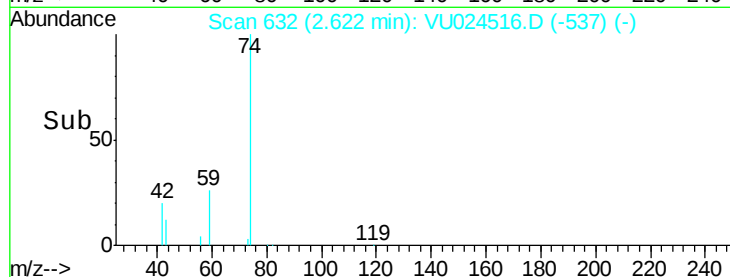
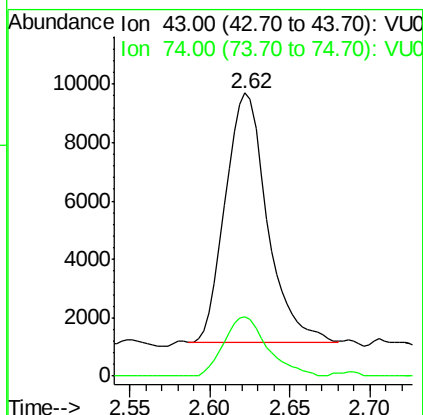
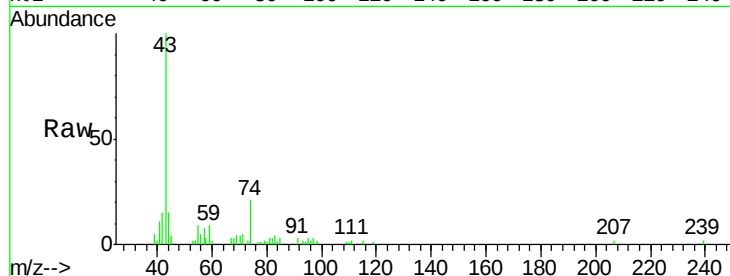




#18
Methyl Acetate
Concen: 4.43 ug/l
RT: 2.62 min Scan# 632
Delta R.T. 0.01 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

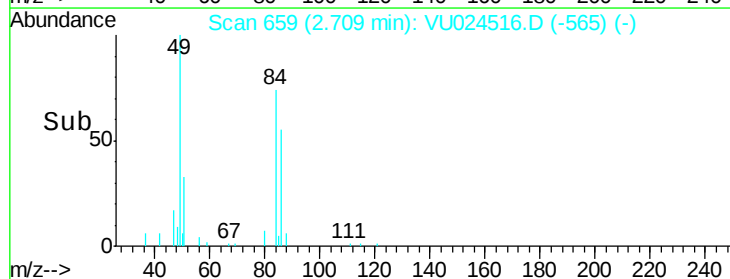
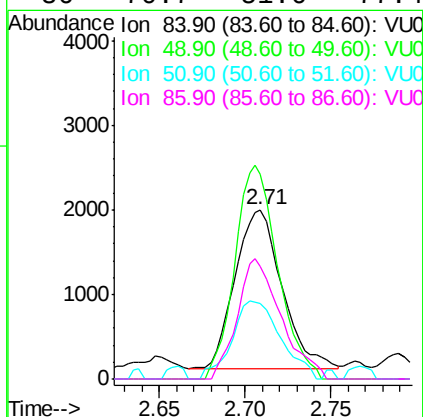
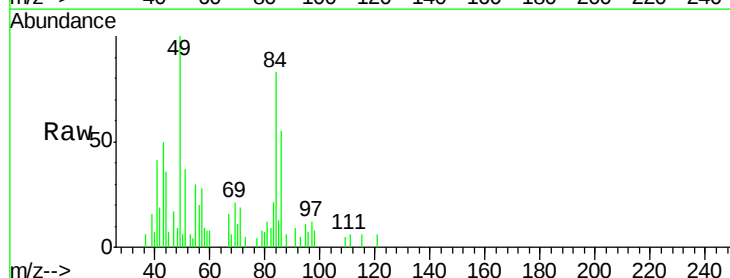
Instrument :
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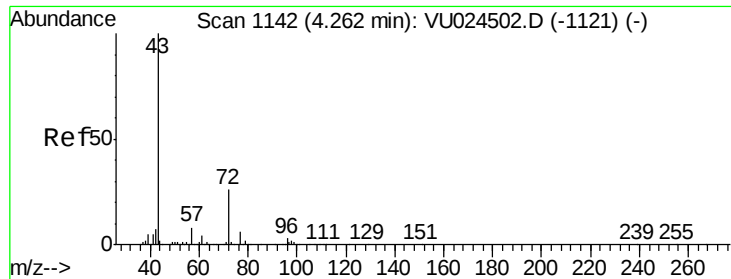
Tgt Ion: 43 Resp: 15372
Ion Ratio Lower Upper
43 100
74 24.7 18.0 27.0



#20
Methylene Chloride
Concen: 1.40 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion: 84 Resp: 3563
Ion Ratio Lower Upper
84 100
49 128.7 103.8 155.8
51 47.3 32.0 48.0
86 70.7 51.6 77.4

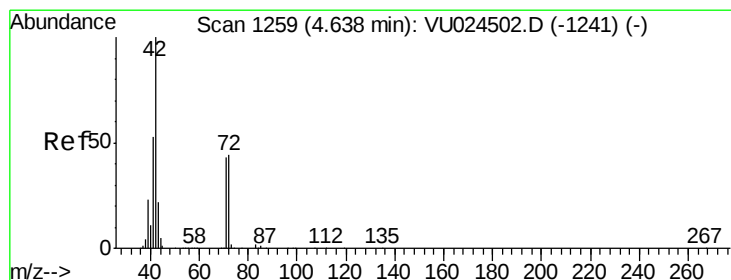
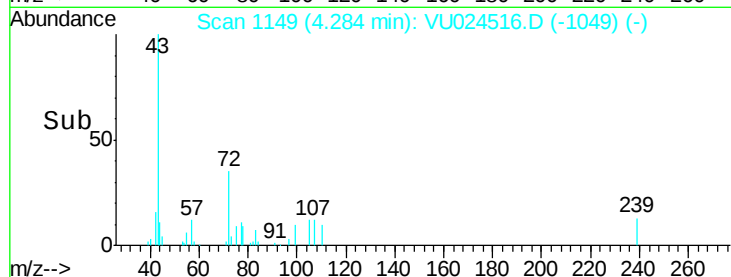
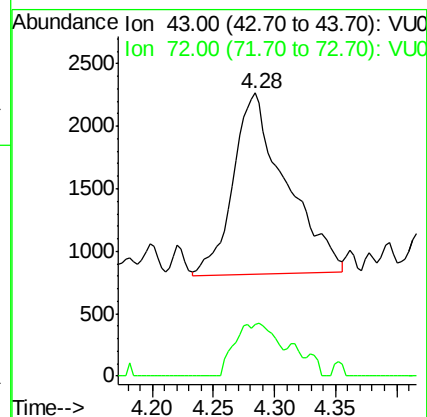
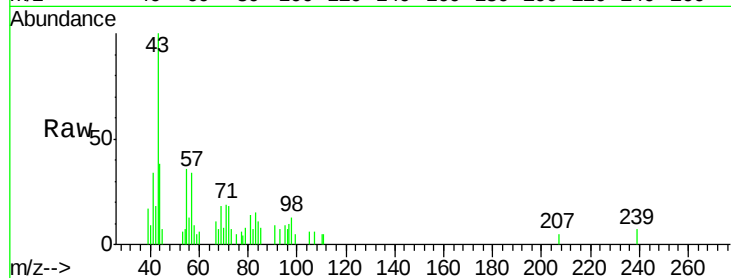




#25
2-Butanone
Concen: 2.02 ug/l
RT: 4.28 min Scan# 1149
Delta R.T. 0.02 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

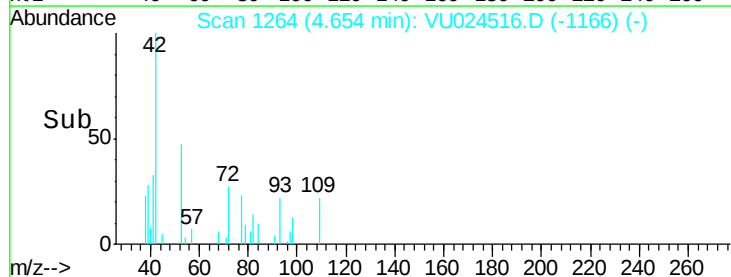
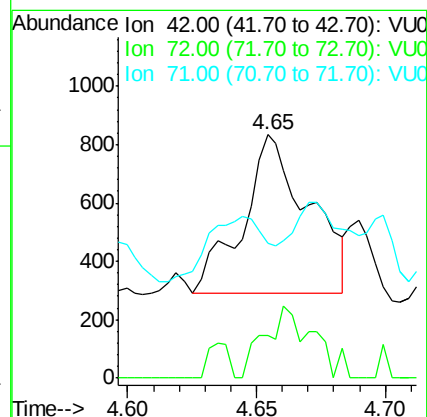
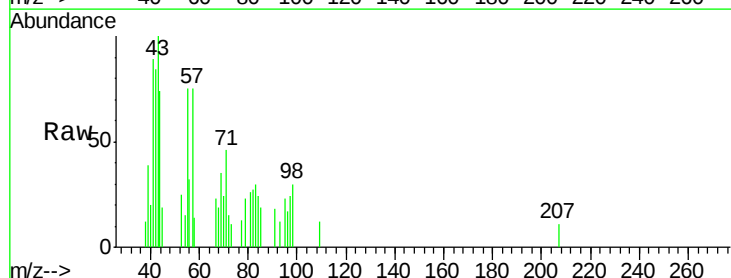
Instrument :
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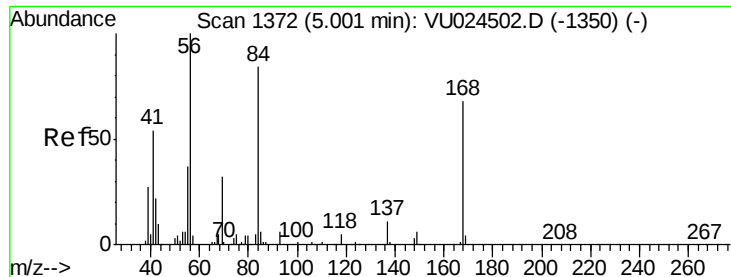
Tgt Ion: 43 Resp: 4390
Ion Ratio Lower Upper
43 100
72 28.8 19.6 29.4



#29
Tetrahydrofuran
Concen: 0.71 ug/l
RT: 4.65 min Scan# 1264
Delta R.T. 0.02 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion: 42 Resp: 960
Ion Ratio Lower Upper
42 100
72 33.5 34.5 51.7#
71 36.7 32.2 48.4

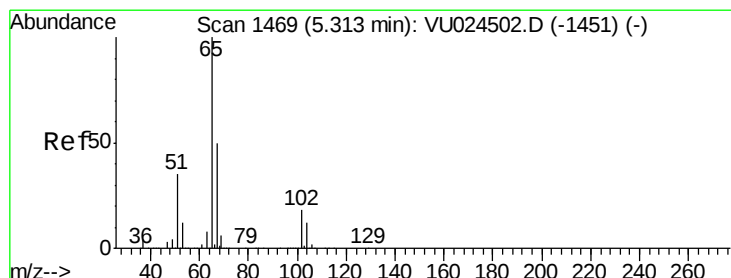
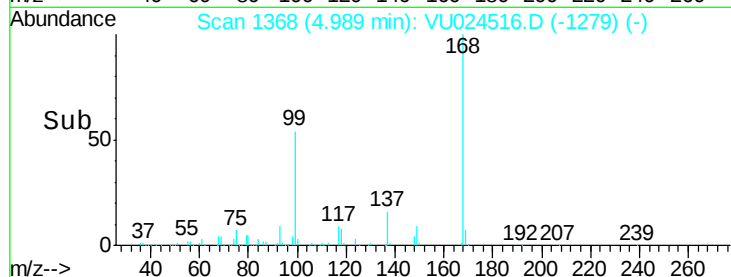
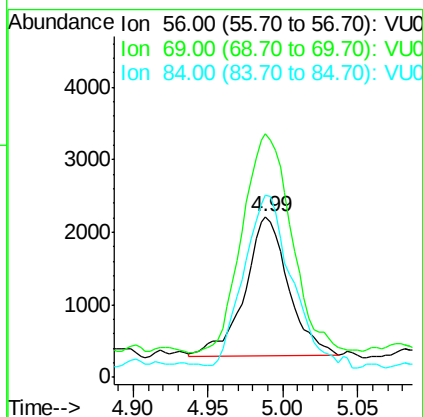
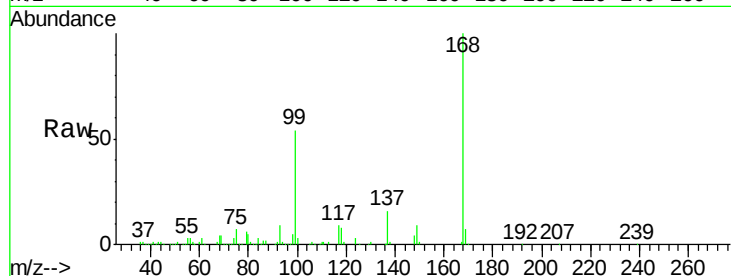




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

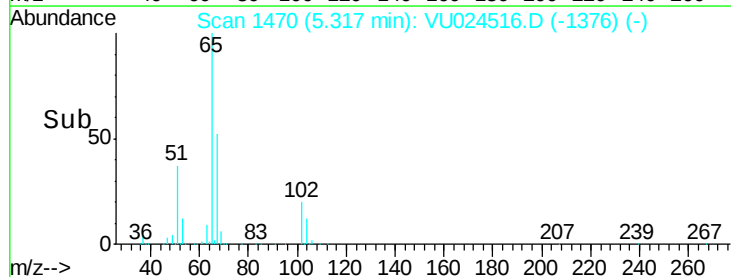
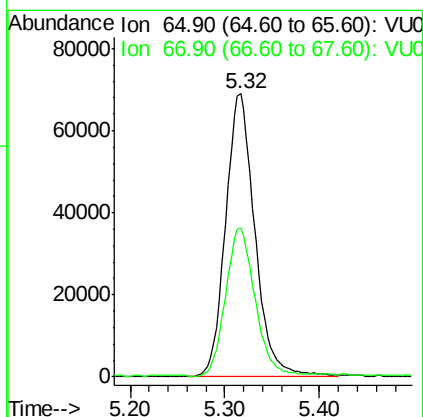
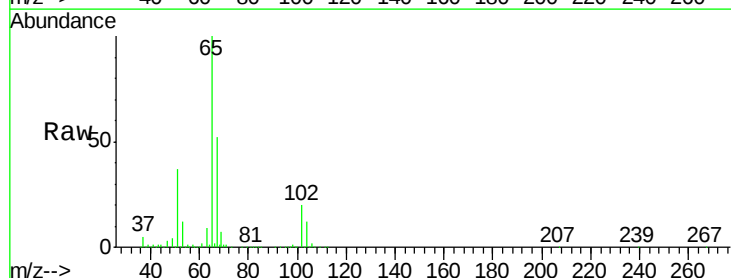
Instrument :
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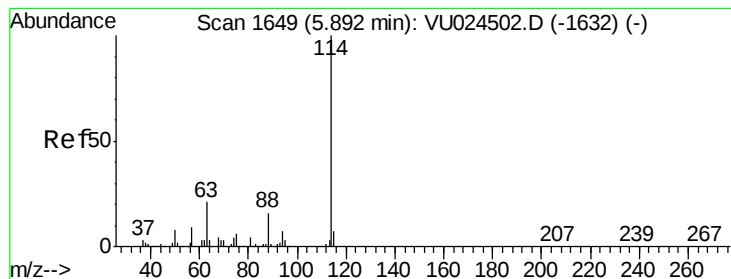
Tgt Ion: 56 Resp: 3893
Ion Ratio Lower Upper
56 100
69 158.4 24.8 37.2#
84 121.7 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 49.42 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion: 65 Resp: 148978
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#15

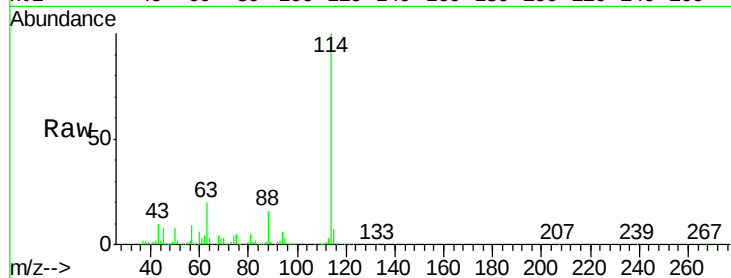
Tgt Ion:114 Resp: 316895

Ion Ratio Lower Upper

114 100

63 20.5 0.0 45.4

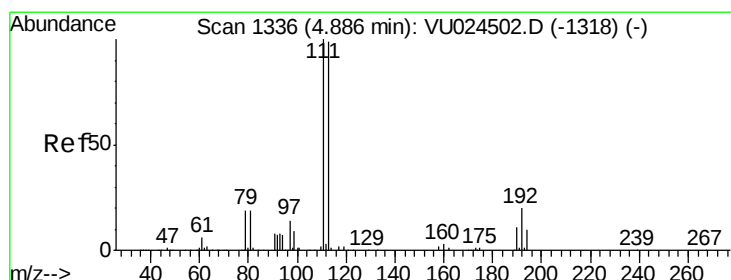
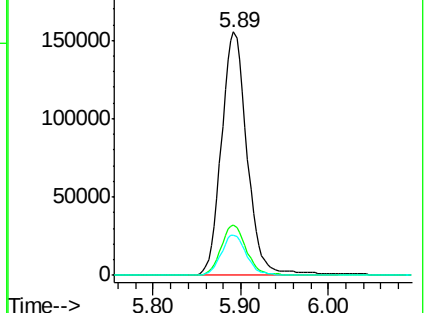
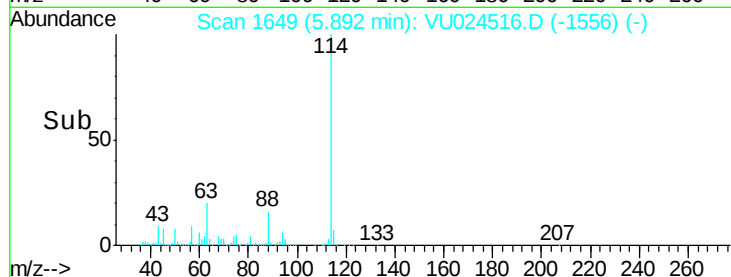
88 16.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 49.04 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

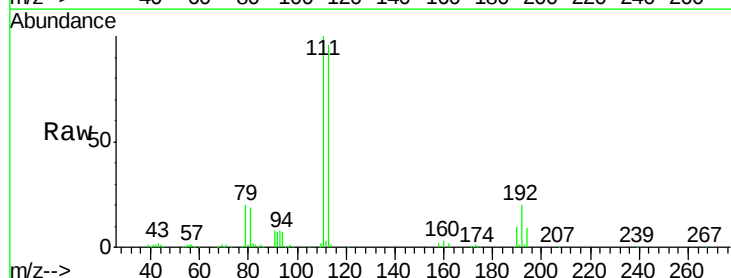
Tgt Ion:113 Resp: 128966

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

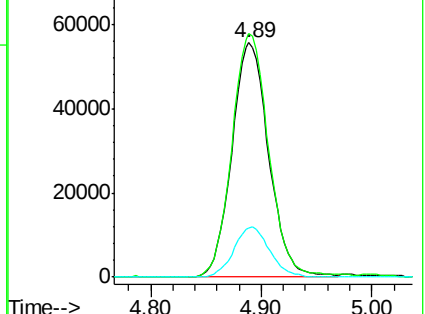
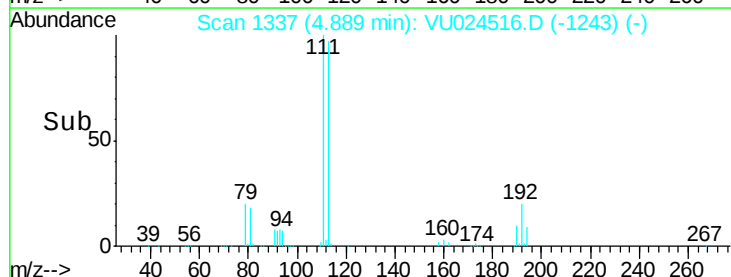
192 20.8 16.2 24.4

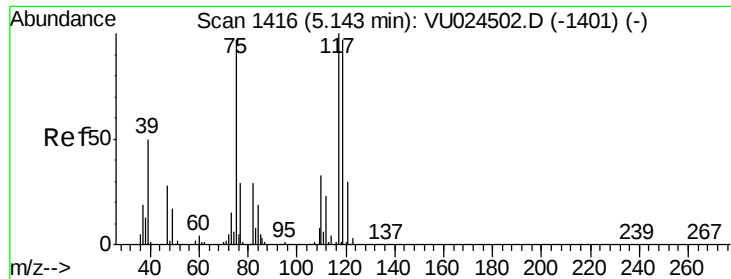


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

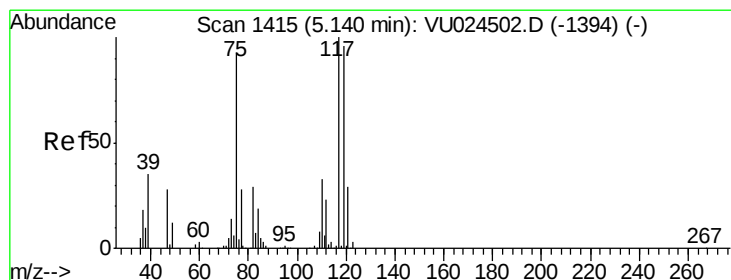
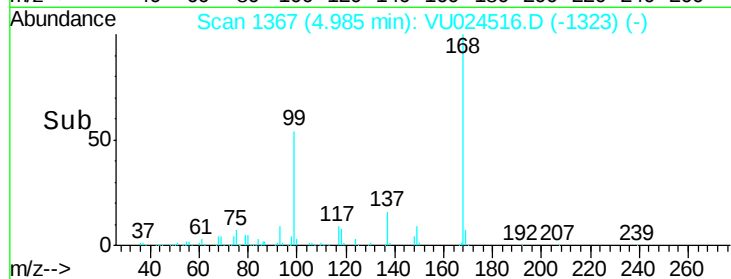
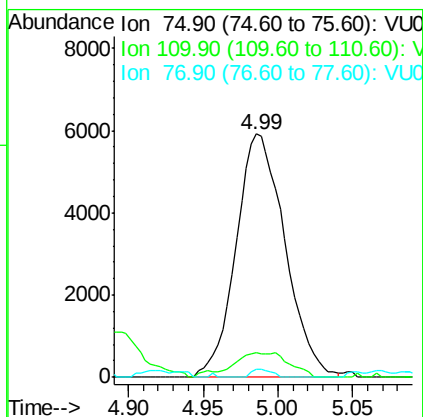
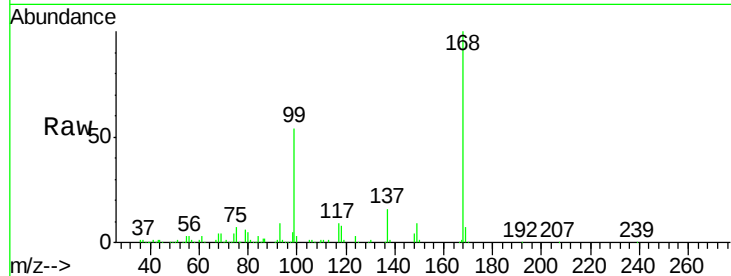




#36
 1,1-Dichloropropene
 Concen: 3.62 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024516.D
 Acq: 13 Jun 2018 18:32

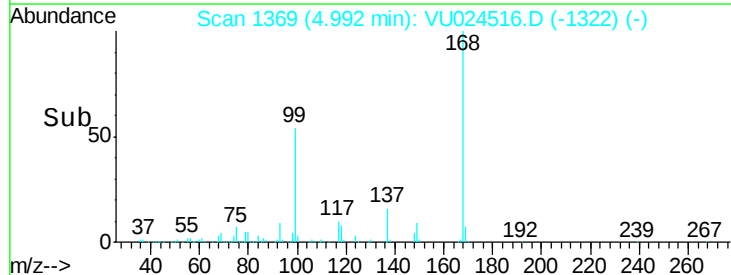
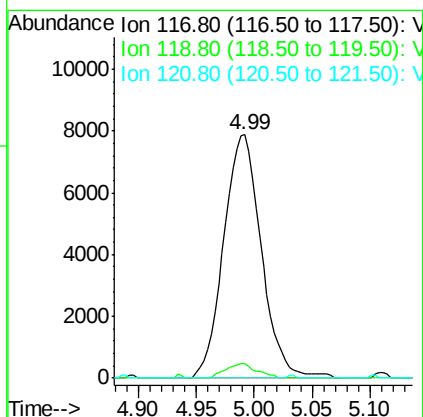
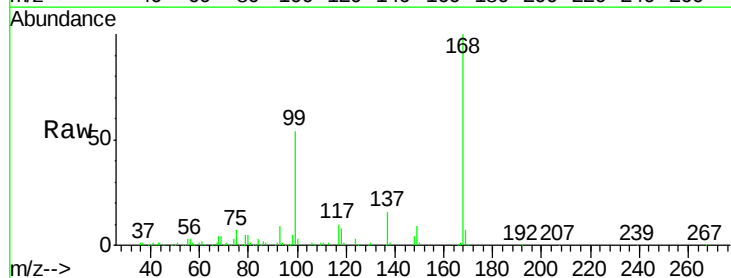
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110190ZHE#15

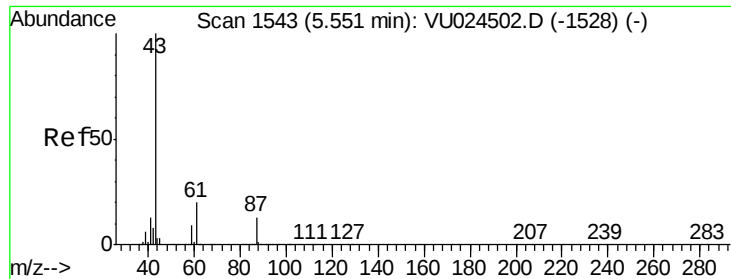
Tgt Ion: 75 Resp: 13468
 Ion Ratio Lower Upper
 75 100
 110 10.8 17.0 50.9#
 77 1.3 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 4.33 ug/l
 RT: 4.99 min Scan# 1369
 Delta R.T. -0.15 min
 Lab File: VU024516.D
 Acq: 13 Jun 2018 18:32

Tgt Ion: 117 Resp: 17735
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.1 114.1#
 121 0.0 23.7 35.5#

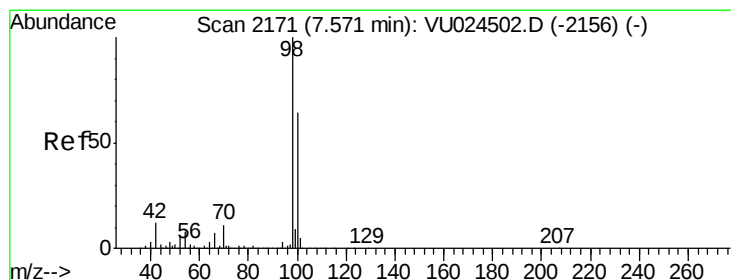
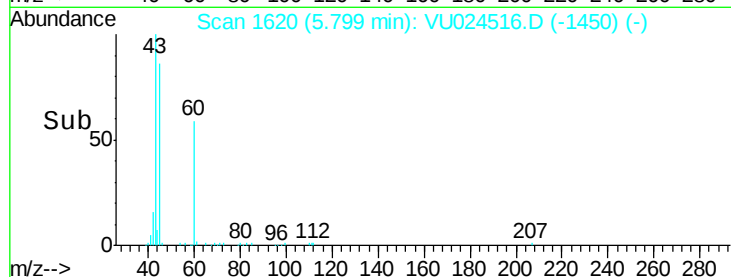
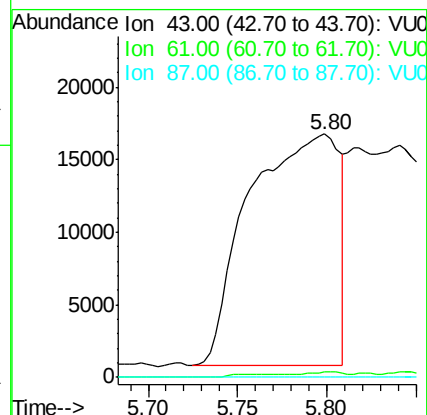
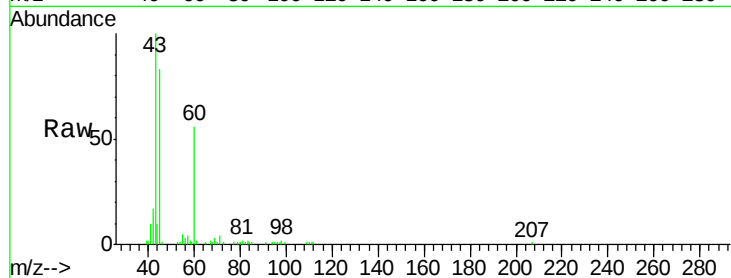




#43
Isopropyl Acetate
Concen: 7.96 ug/l
RT: 5.80 min Scan# 1620
Delta R.T. 0.25 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

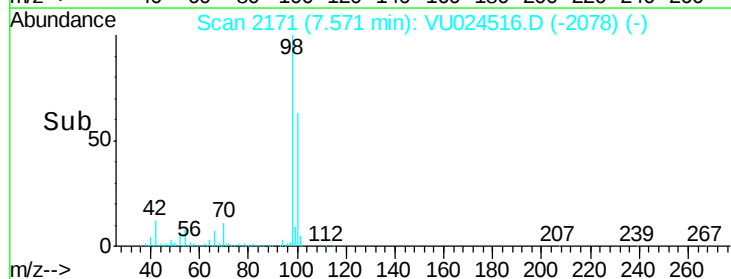
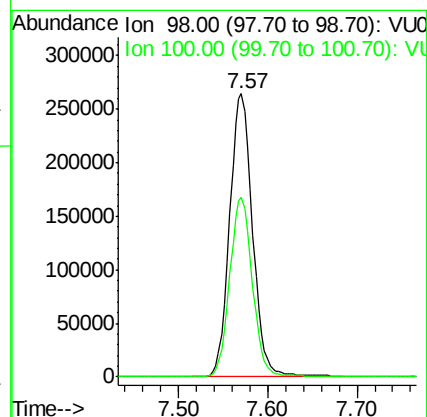
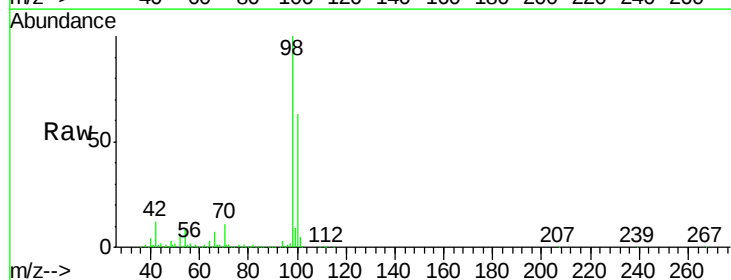
Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#15

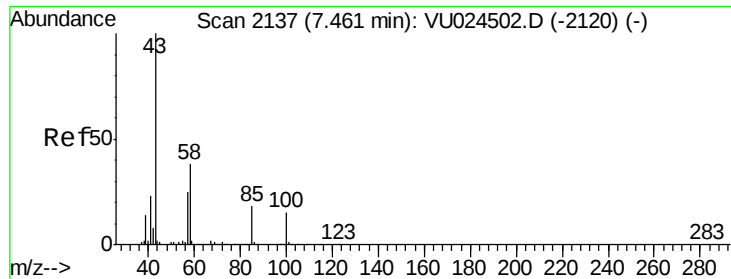
Tgt Ion: 43 Resp: 55860
Ion Ratio Lower Upper
43 100
61 0.5 15.4 23.0#
87 0.0 10.0 15.0#



#50
Toluene-d8
Concen: 48.86 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion: 98 Resp: 468725
Ion Ratio Lower Upper
98 100
100 63.1 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.77 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

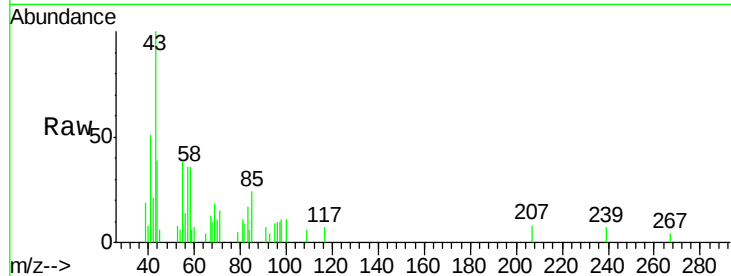
PB110190ZHE#15

Tgt Ion: 43 Resp: 3394

Ion Ratio Lower Upper

43 100

58 35.2 30.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.47

2500

2000

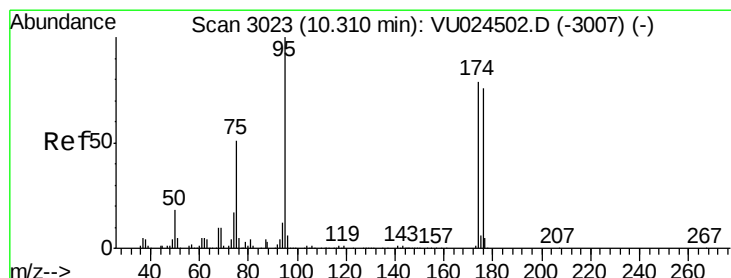
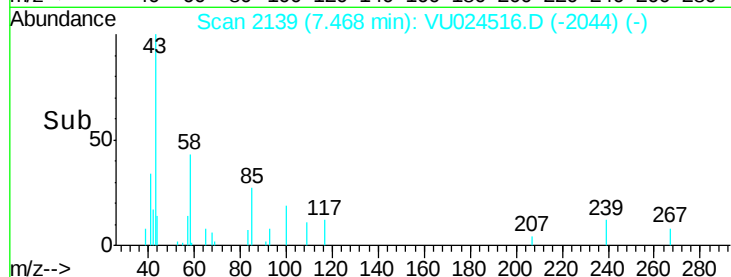
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.56 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

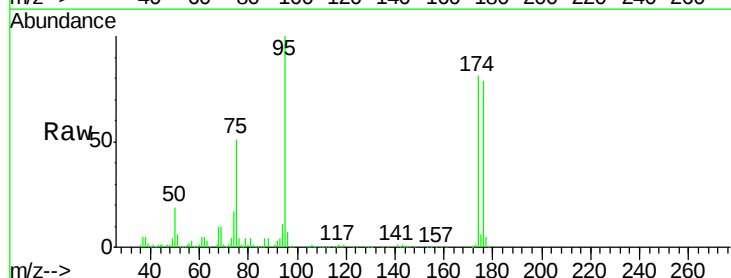
Tgt Ion: 95 Resp: 184959

Ion Ratio Lower Upper

95 100

174 83.0 0.0 165.8

176 81.2 0.0 159.4



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

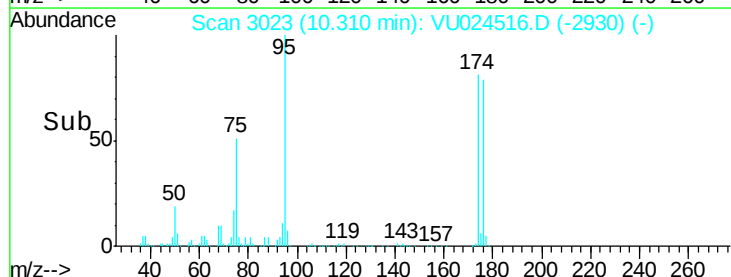
150000

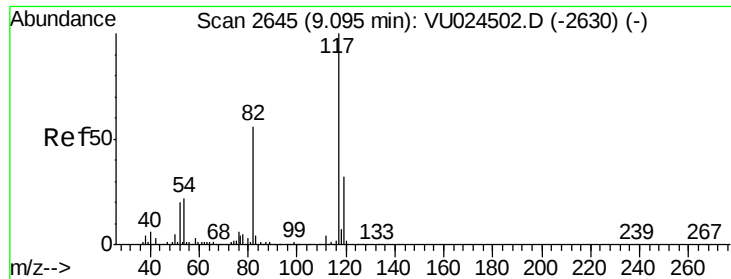
100000

50000

0

Time-->

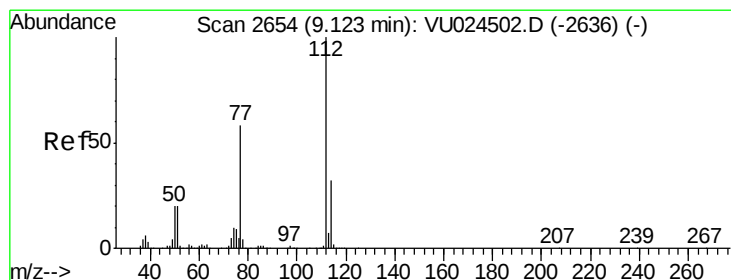
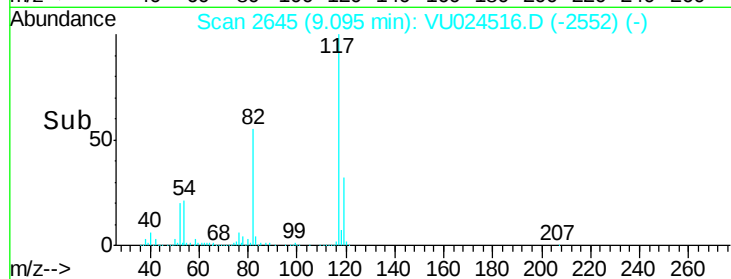
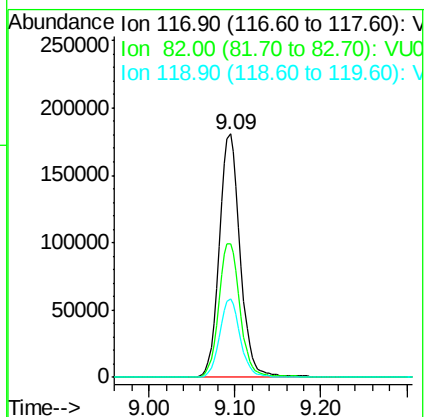
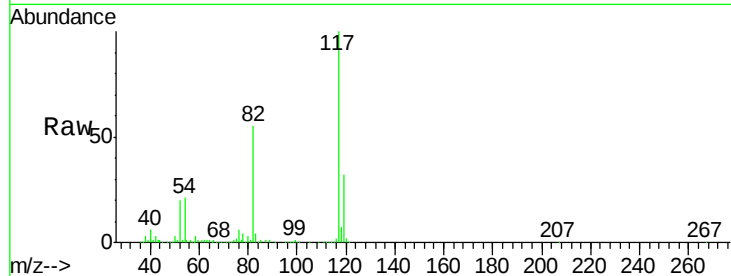




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

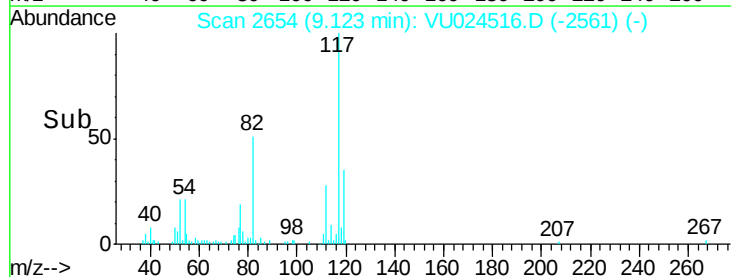
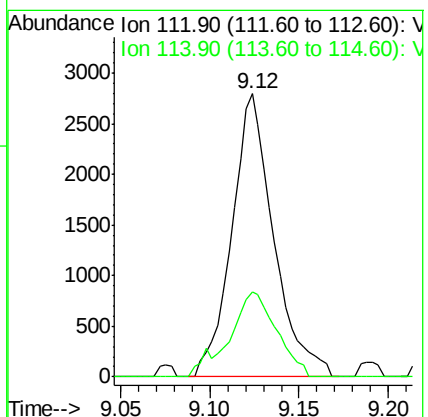
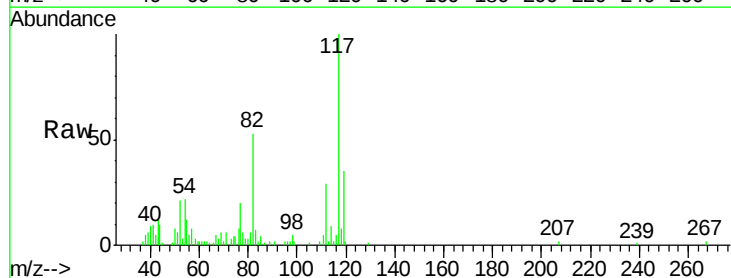
Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#15

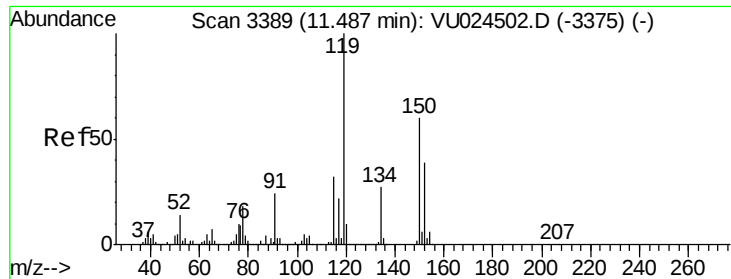
Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.3	66.5
119	32.2	25.4	38.2



#65
Chlorobenzene
Concen: 0.59 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion	Ratio	Lower	Upper
112	100		
114	29.8	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024516.D

Acq: 13 Jun 2018 18:32

Instrument :

MSVOA_U

ClientSampleId :

PB110190ZHE#15

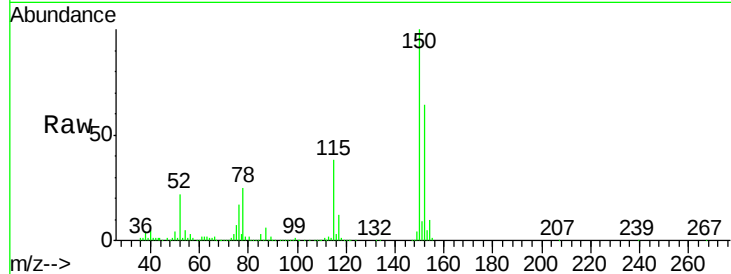
Tgt Ion:152 Resp: 179338

Ion Ratio Lower Upper

152 100

115 58.4 43.0 129.0

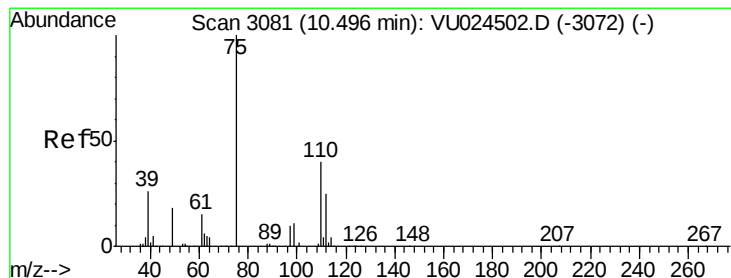
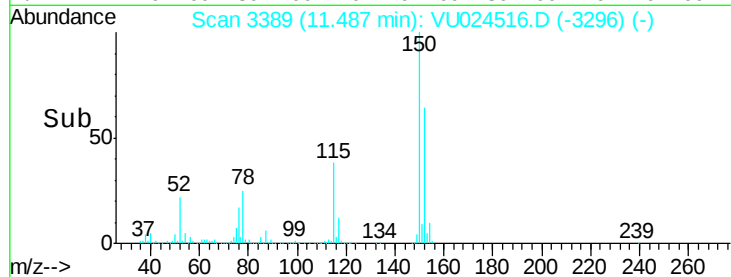
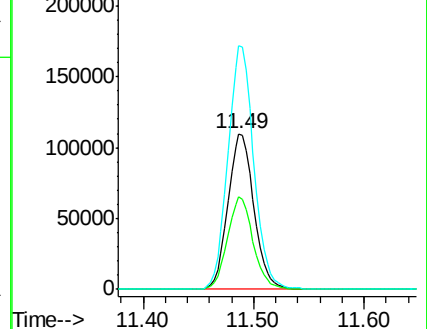
150 156.0 0.0 354.0



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: 23.81 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024516.D

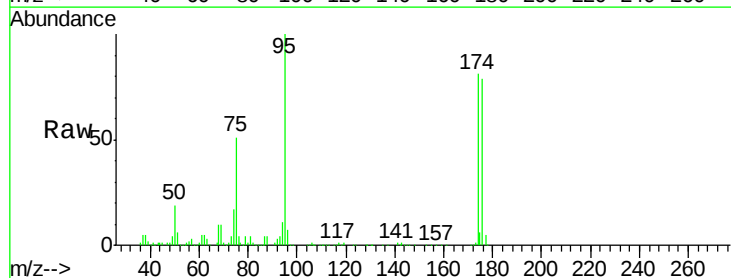
Acq: 13 Jun 2018 18:32

Tgt Ion: 75 Resp: 94025

Ion Ratio Lower Upper

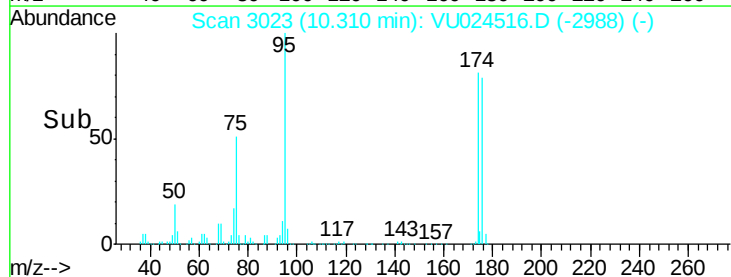
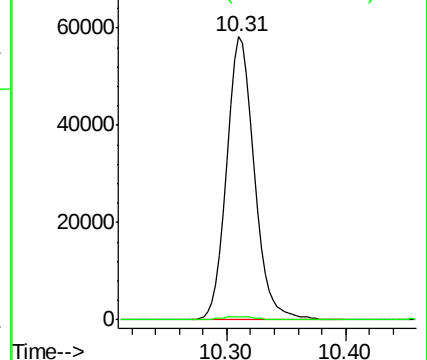
75 100

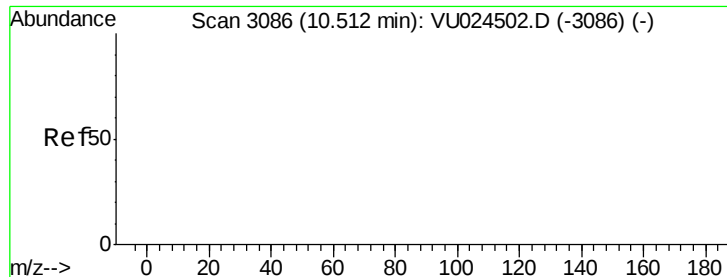
77 1.5 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

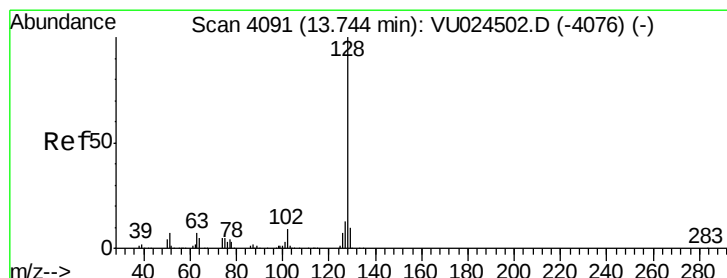
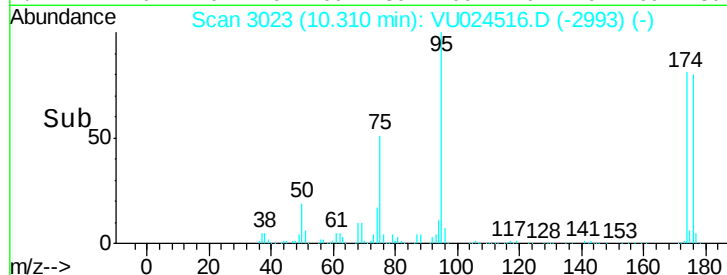
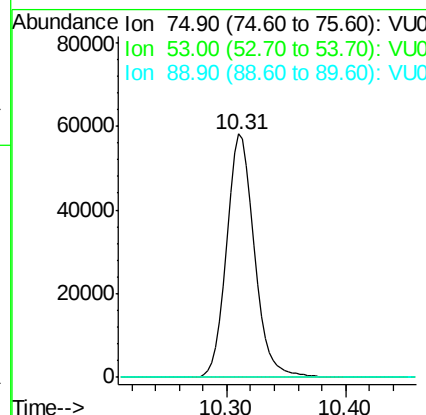
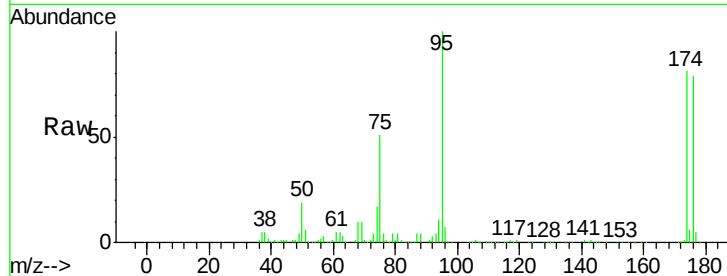




#81
trans-1,4-Dichloro-2-butene
Concen: 55.11 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Instrument :
MSVOA_U
ClientSampleId :
PB110190ZHE#15

Tgt Ion: 75 Resp: 94025
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 0.71 ug/l
RT: 13.78 min Scan# 4102
Delta R.T. 0.04 min
Lab File: VU024516.D
Acq: 13 Jun 2018 18:32

Tgt Ion: 128 Resp: 456
Ion Ratio Lower Upper
128 100
127 11.4 10.6 16.0
129 0.0 8.6 12.8#

