

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
 Data File : VU024779.D
 Acq On : 21 Jun 2018 00:49
 Operator : MD/SY
 Sample : PB110408ZHE#20
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110408ZHE#20

Quant Time: Jun 21 07:56:37 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

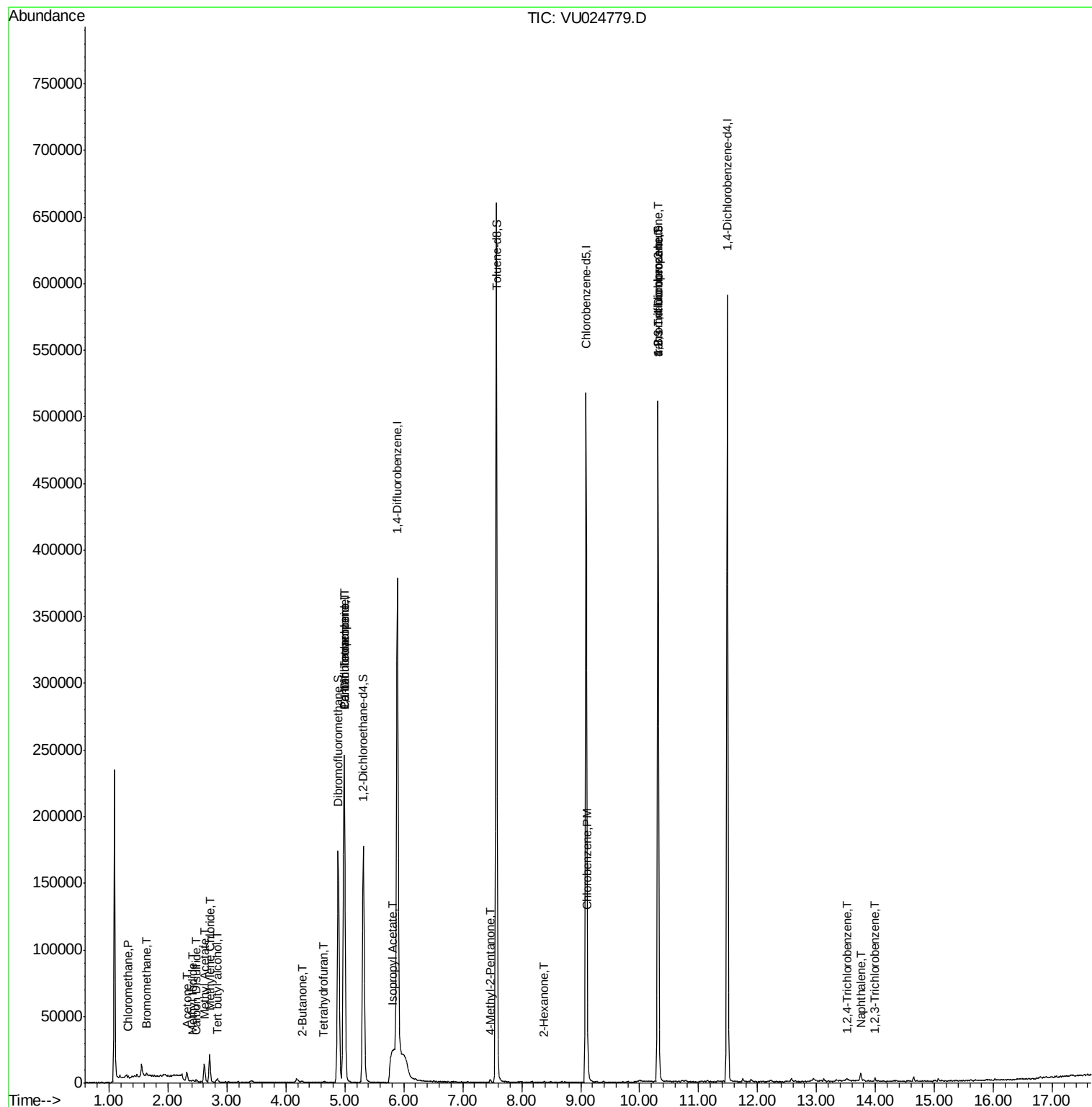
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	195439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	303868	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	282351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	152856	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	137534	43.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.22%	
35) Dibromofluoromethane	4.89	113	118458	46.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.94%	
50) Toluene-d8	7.57	98	438417	47.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.32%	
62) 4-Bromofluorobenzene	10.31	95	160041	43.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.64%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	1008	0.403	ug/l	97
5) Bromomethane	1.64	94	954	0.766	ug/l	82
6) Chloroethane	1.69	64	41	Below Cal	#	43
8) Diethyl Ether	2.11	74	312	Below Cal	#	34
10) Methyl Iodide	2.42	142	686	5.586	ug/l #	70
11) Tert butyl alcohol	2.84	59	957	1.233	ug/l #	72
16) Acetone	2.32	43	7267	4.239	ug/l	96
17) Carbon Disulfide	2.48	76	1770	0.248	ug/l #	69
18) Methyl Acetate	2.62	43	16098	4.380	ug/l	97
20) Methylene Chloride	2.71	84	8795	3.270	ug/l	96
25) 2-Butanone	4.27	43	1490	0.647	ug/l #	80
29) Tetrahydrofuran	4.64	42	565	0.396	ug/l #	63
31) Cyclohexane	4.99	56	3739	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13654	3.824	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18264	4.651	ug/l #	16
43) Isopropyl Acetate	5.80	43	25472	3.786	ug/l #	63
51) 4-Methyl-2-Pentanone	7.46	43	1336	0.316	ug/l	97
59) 2-Hexanone	8.38	43	1130	0.327	ug/l #	60
65) Chlorobenzene	9.12	112	2948	0.409	ug/l #	88
76) 1,2,3-Trichloropropane	10.31	75	81981	24.360	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	81981	56.380	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	749	0.221	ug/l	89
95) Naphthalene	13.75	128	6170	1.221	ug/l	97
96) 1,2,3-Trichlorobenzene	13.99	180	1181	0.349	ug/l	86

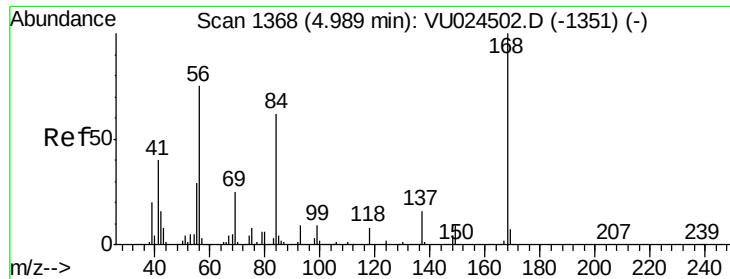
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024779.D
Acq On : 21 Jun 2018 00:49
Operator : MD/SY
Sample : PB110408ZHE#20
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB110408ZHE#20

Quant Time: Jun 21 07:56:37 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

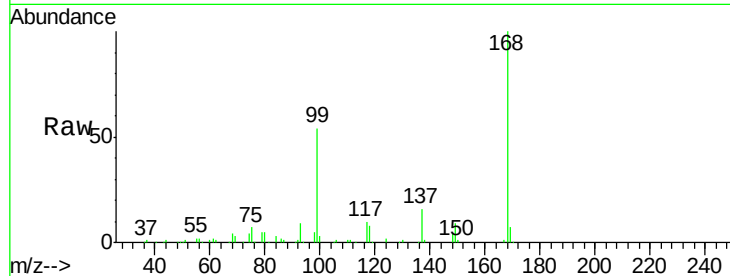
PB110408ZHE#20

Tgt Ion:168 Resp: 195439

Ion Ratio Lower Upper

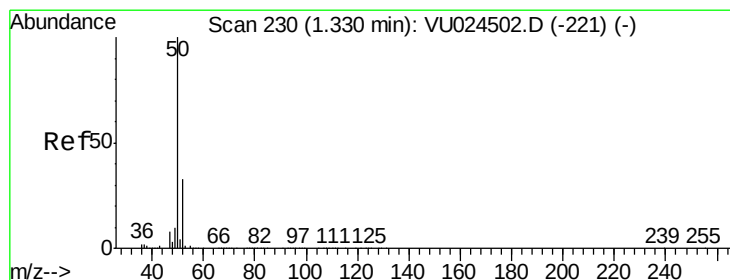
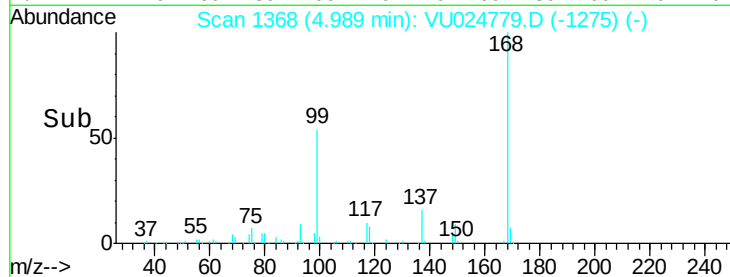
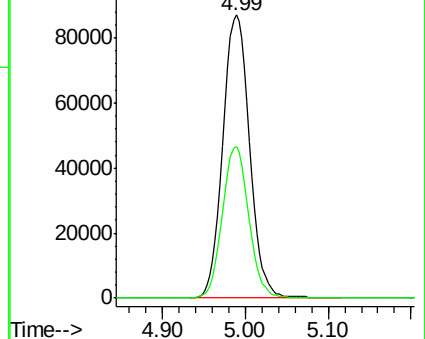
168 100

99 53.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.403 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024779.D

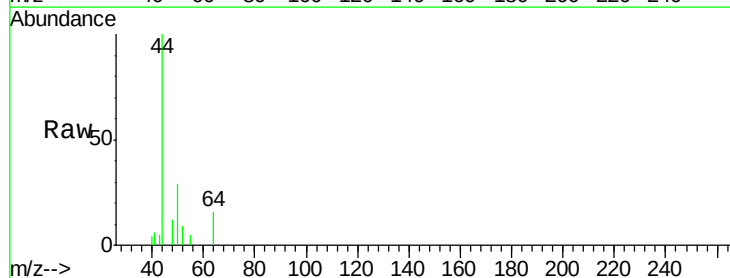
Acq: 21 Jun 2018 00:49

Tgt Ion: 50 Resp: 1008

Ion Ratio Lower Upper

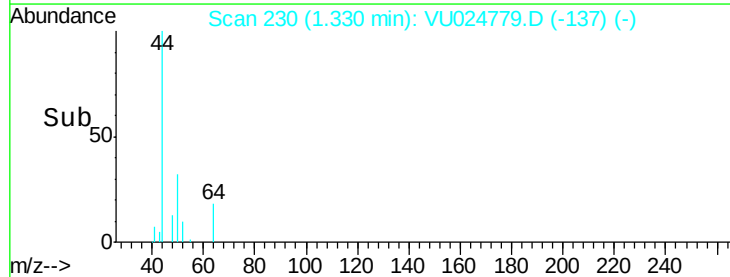
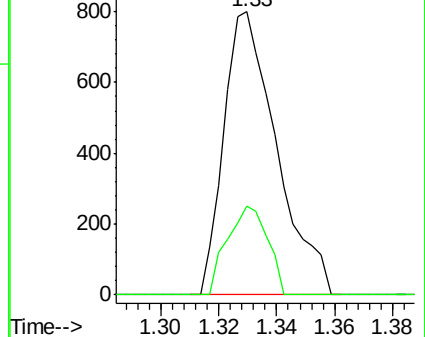
50 100

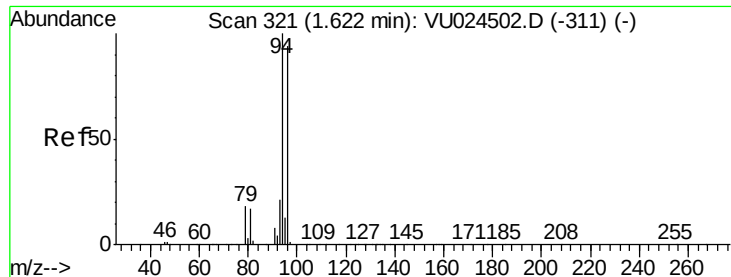
52 31.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.766 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

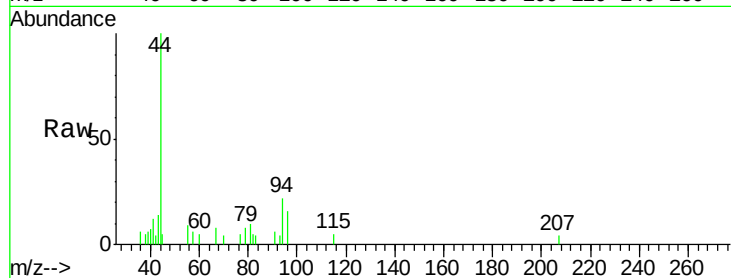
PB110408ZHE#20

Tgt Ion: 94 Resp: 954

Ion Ratio Lower Upper

94 100

96 75.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

600

500

400

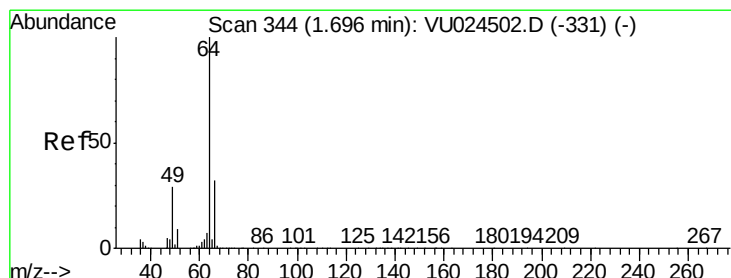
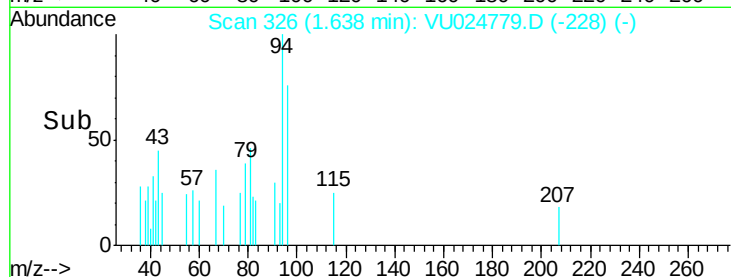
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU024779.D

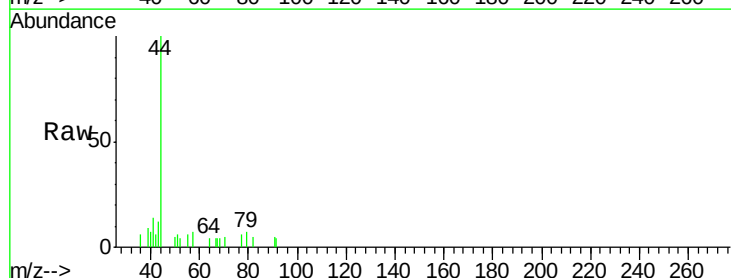
Acq: 21 Jun 2018 00:49

Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

64 100

66 0.0 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

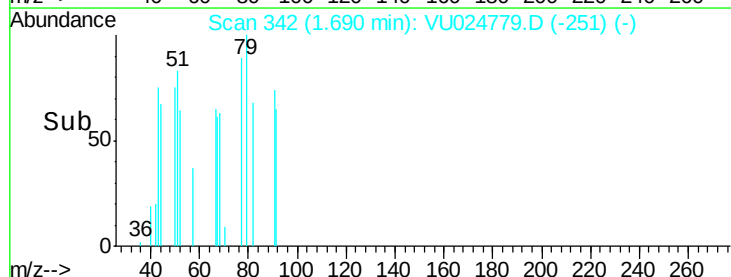
150

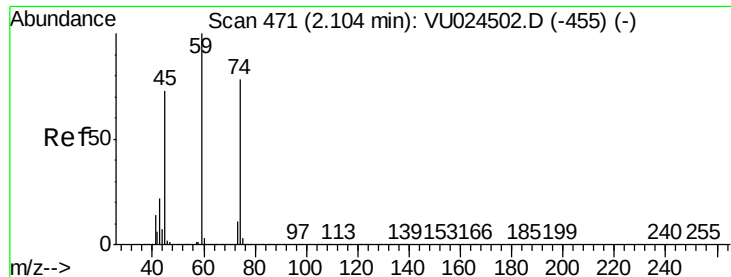
100

50

0

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

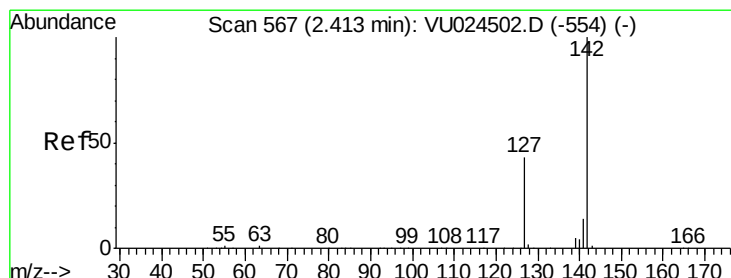
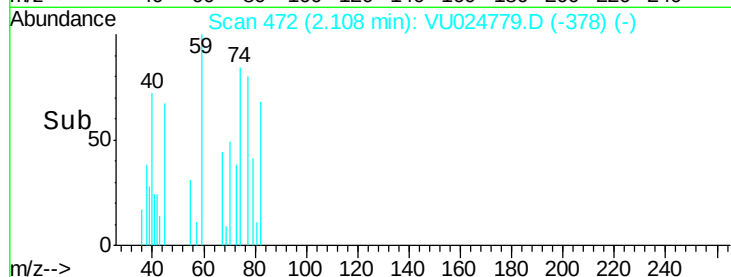
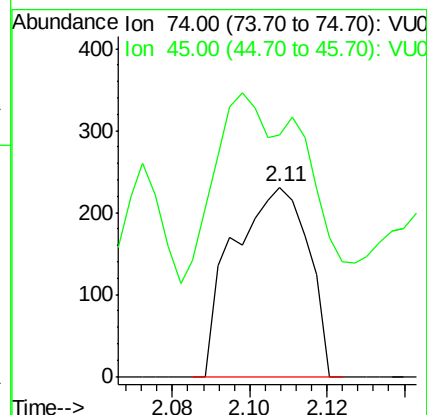
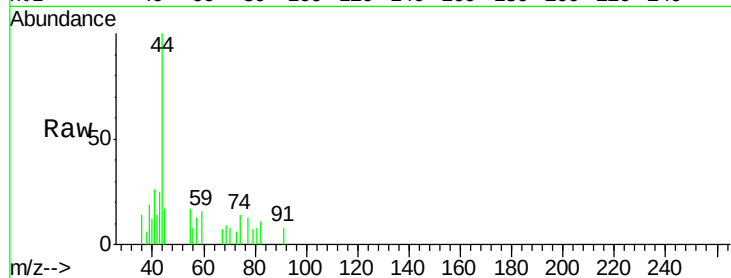
PB110408ZHE#20

Tgt Ion: 74 Resp: 312

Ion Ratio Lower Upper

74 100

45 179.5 55.0 165.0#



#10

Methyl Iodide

Concen: 5.586 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

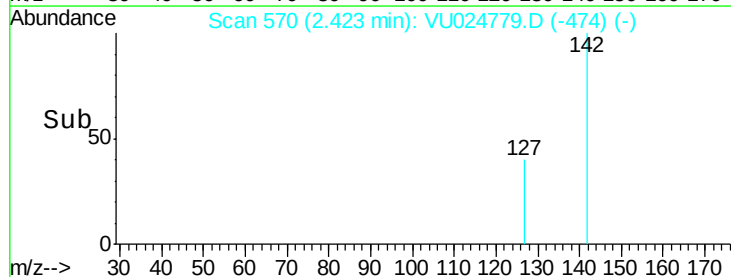
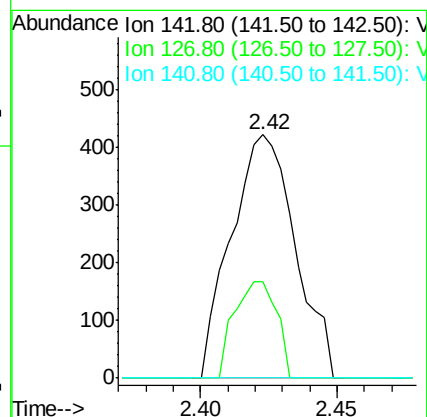
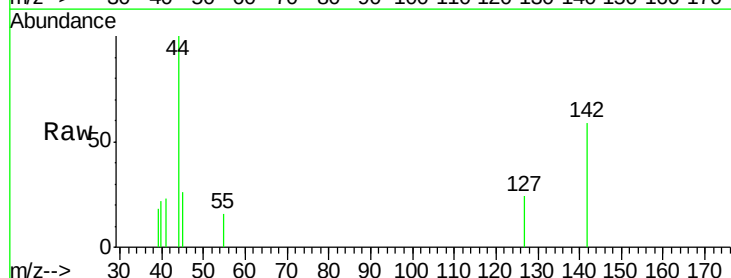
Tgt Ion: 142 Resp: 686

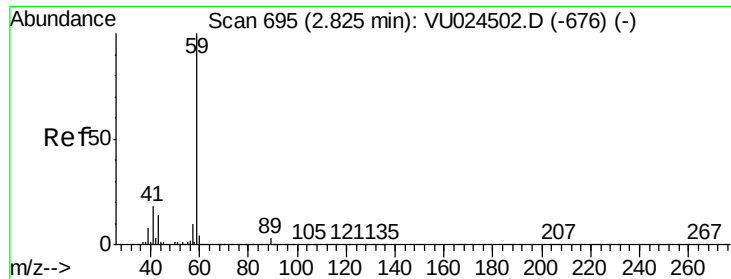
Ion Ratio Lower Upper

142 100

127 26.2 35.6 53.4#

141 0.0 11.7 17.5#

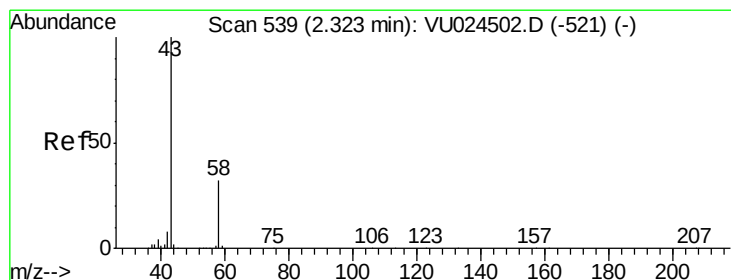
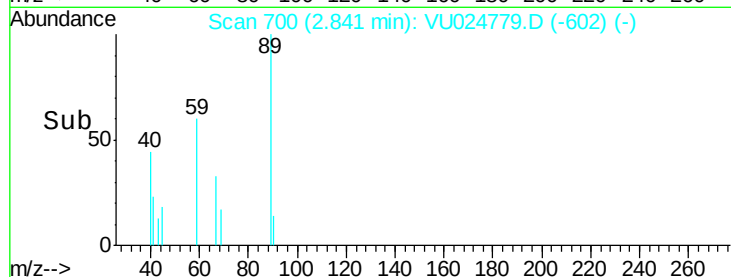
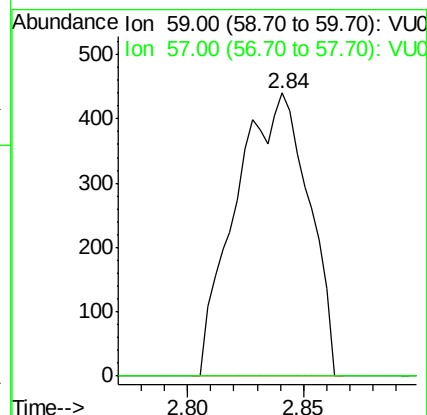
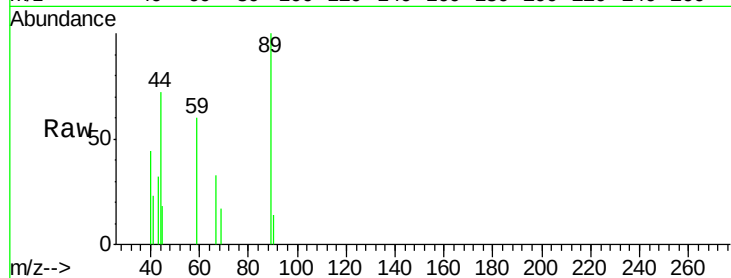




#11
Tert butyl alcohol
Concen: 1.233 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

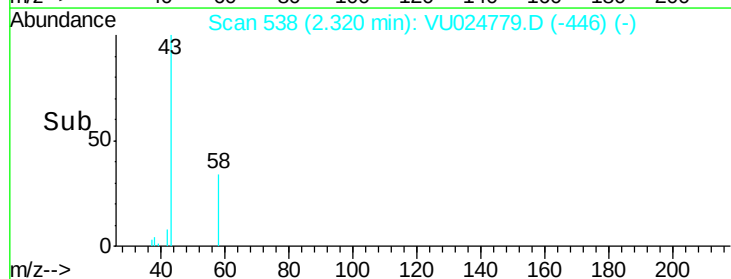
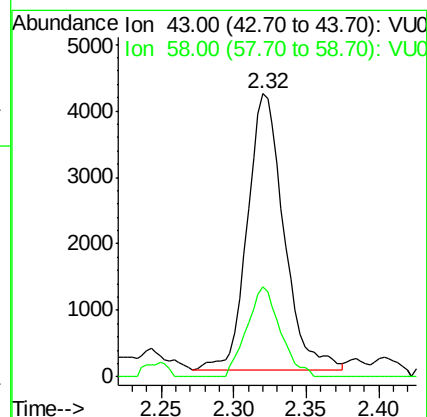
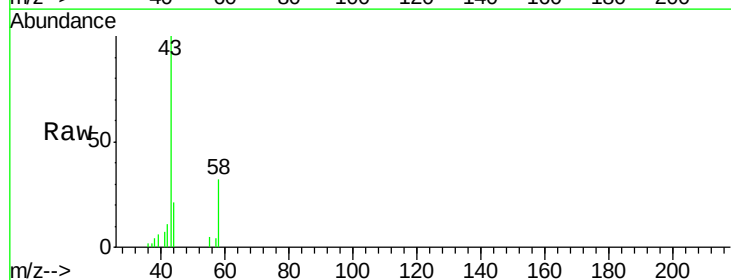
Instrument :
MSVOA_U
ClientSampleId :
PB110408ZHE#20

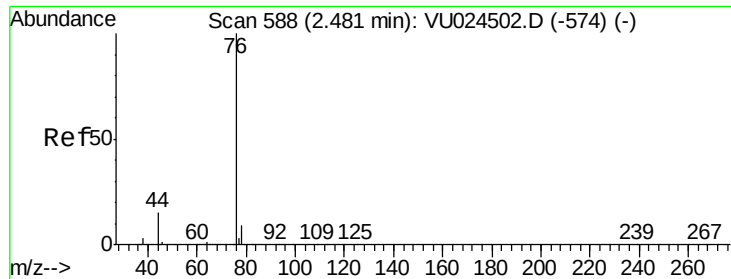
Tgt Ion: 59 Resp: 957
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 4.239 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

Tgt Ion: 43 Resp: 7267
Ion Ratio Lower Upper
43 100
58 32.4 24.4 36.6





#17

Carbon Disulfide

Concen: 0.248 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

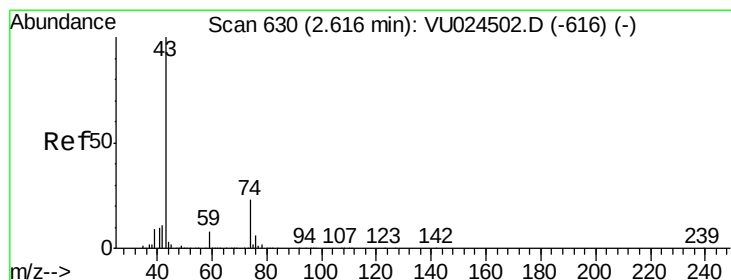
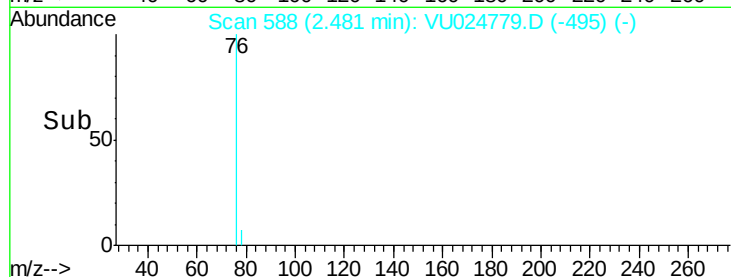
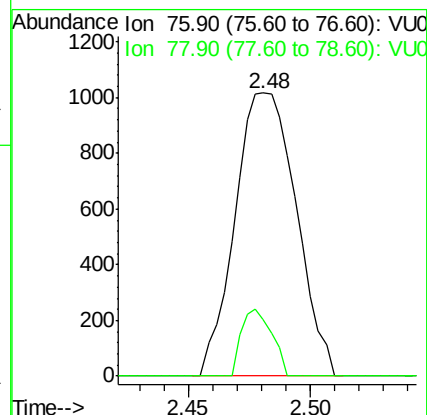
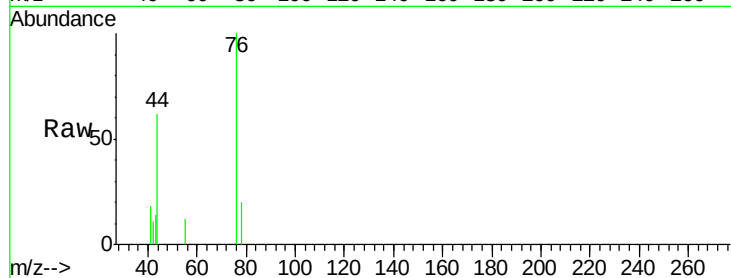
PB110408ZHE#20

Tgt Ion: 76 Resp: 1770

Ion Ratio Lower Upper

76 100

78 20.0 7.1 10.7#



#18

Methyl Acetate

Concen: 4.380 ug/l

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU024779.D

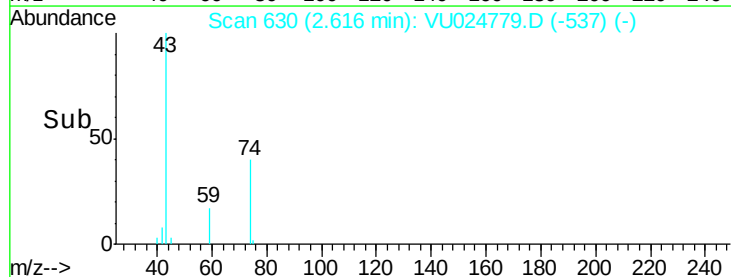
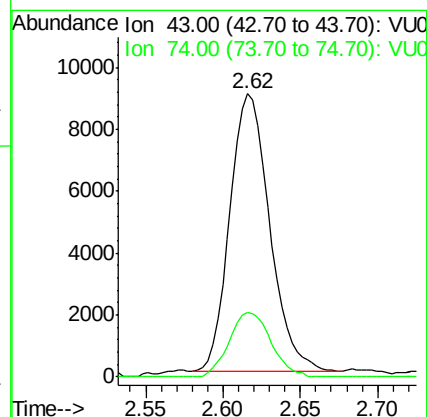
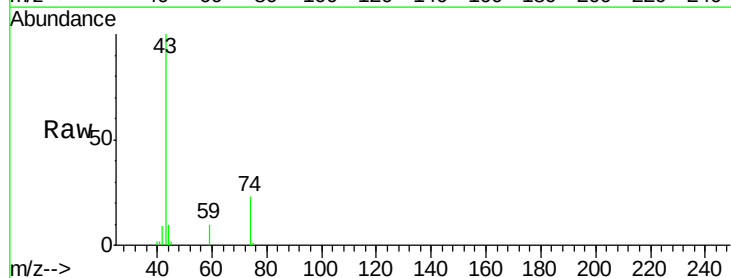
Acq: 21 Jun 2018 00:49

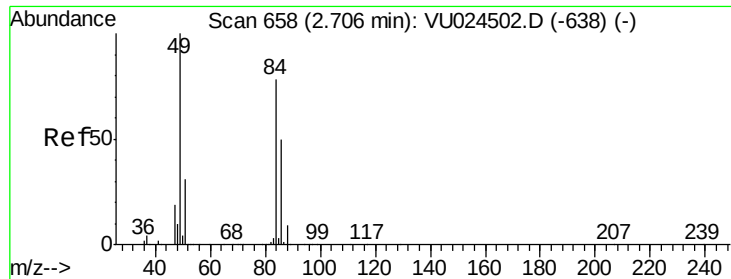
Tgt Ion: 43 Resp: 16098

Ion Ratio Lower Upper

43 100

74 24.1 18.0 27.0

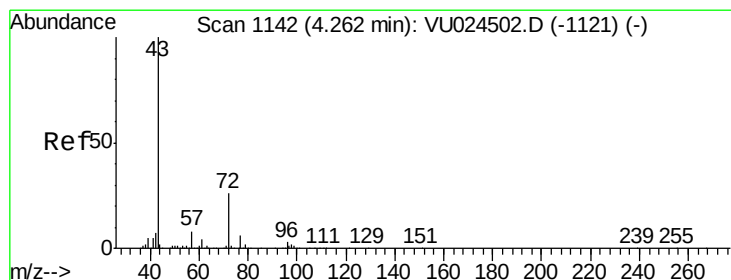
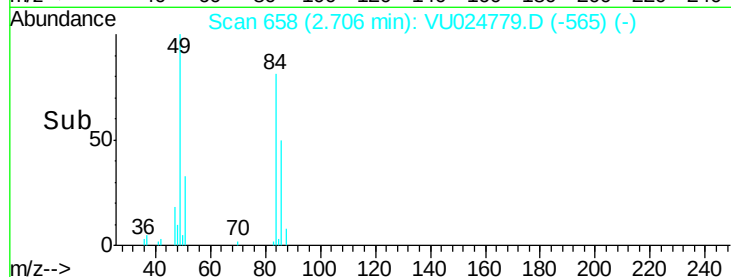
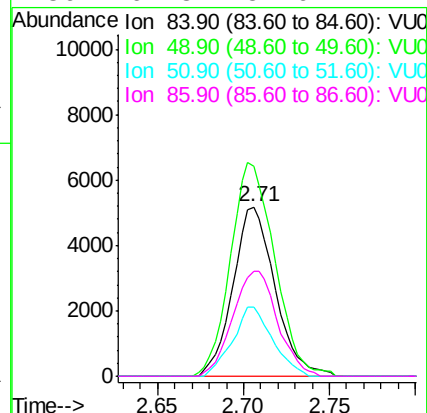
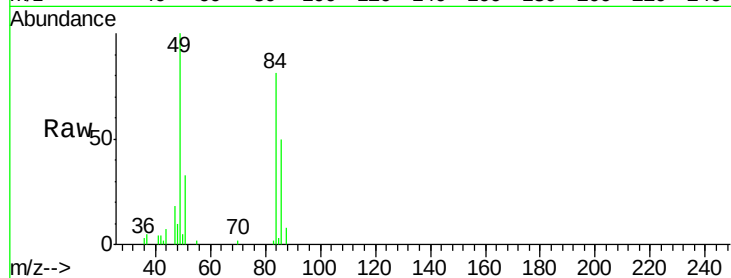




#20
Methylene Chloride
Concen: 3.270 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

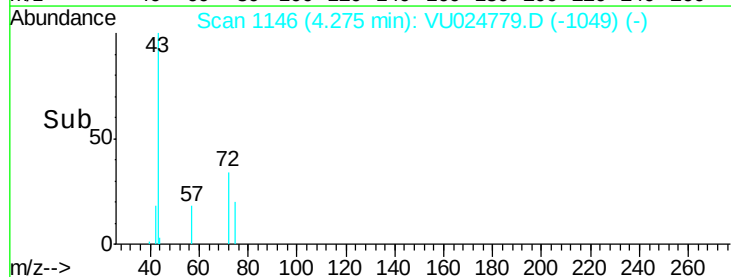
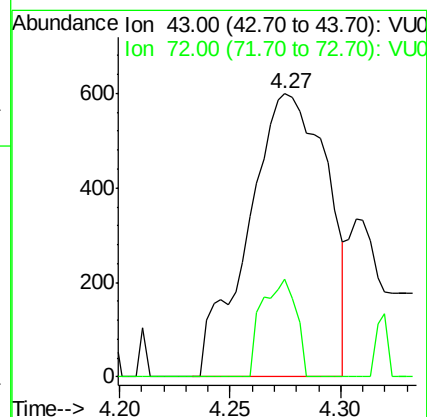
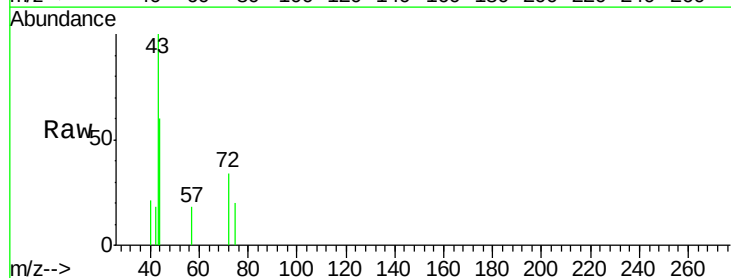
Instrument :
MSVOA_U
ClientSampleId :
PB110408ZHE#20

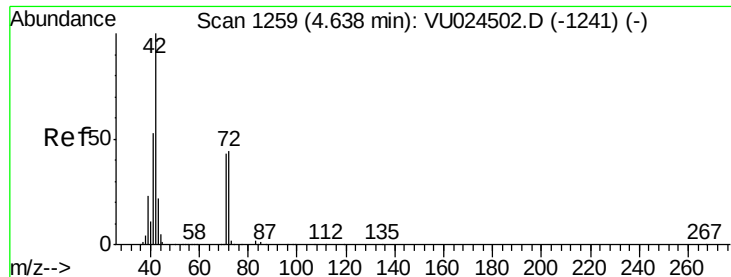
Tgt Ion:	84	Resp:	8795
Ion	Ratio	Lower	Upper
84	100		
49	124.1	103.8	155.8
51	41.1	32.0	48.0
86	61.8	51.6	77.4



#25
2-Butanone
Concen: 0.647 ug/l
RT: 4.27 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

Tgt Ion:	43	Resp:	1490
Ion	Ratio	Lower	Upper
43	100		
72	34.4	19.6	29.4#

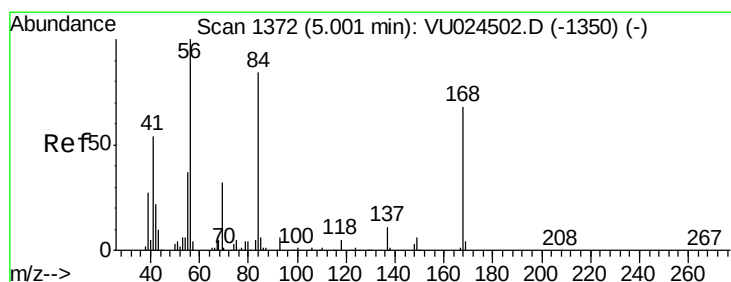
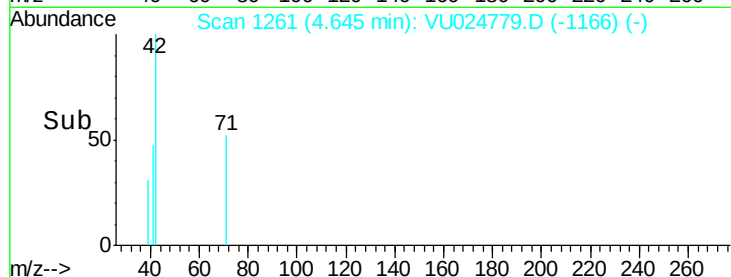
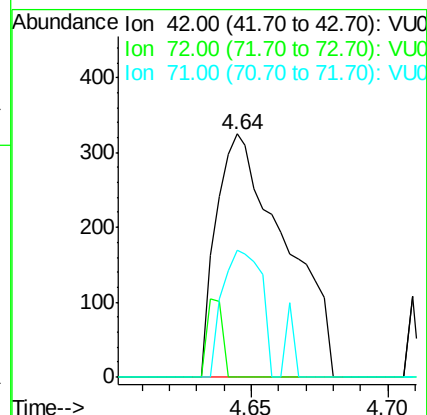
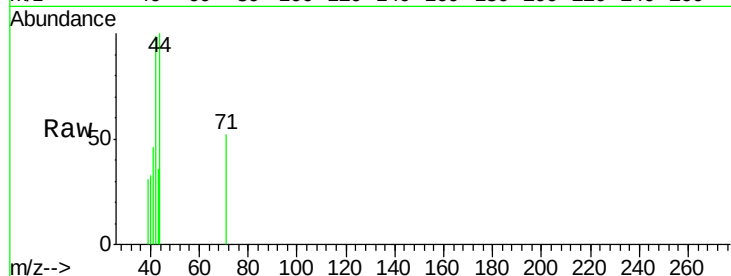




#29
Tetrahydrofuran
Concen: 0.396 ug/l
RT: 4.64 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

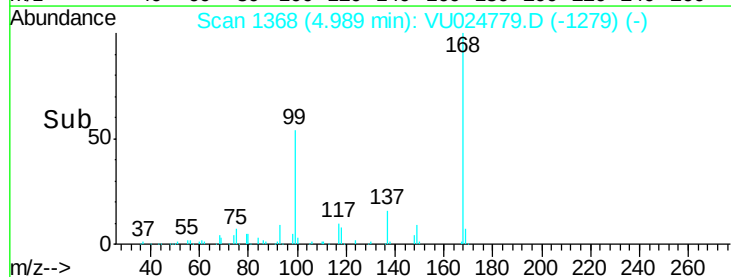
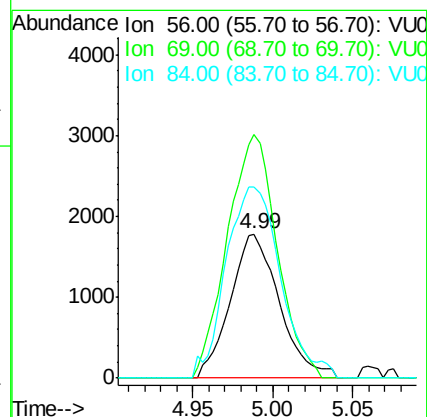
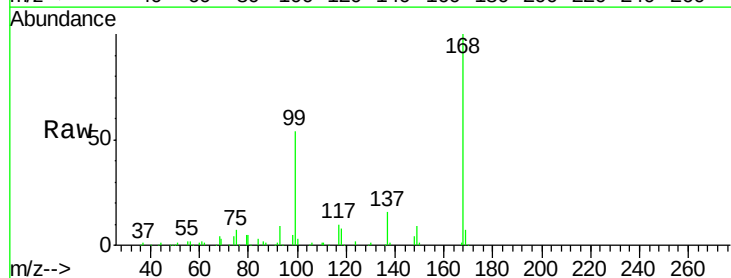
Instrument :
MSVOA_U
ClientSampleId :
PB110408ZHE#20

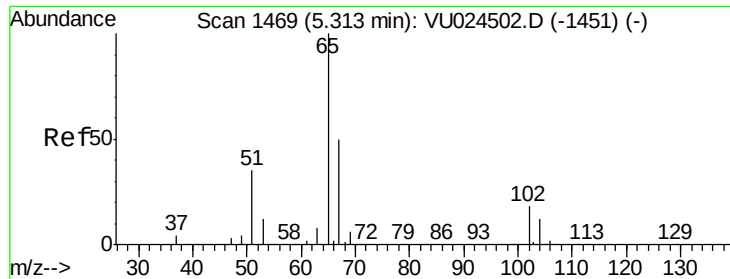
Tgt Ion: 42 Resp: 565
Ion Ratio Lower Upper
42 100
72 7.1 34.5 51.7#
71 29.7 32.2 48.4#



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

Tgt Ion: 56 Resp: 3739
Ion Ratio Lower Upper
56 100
69 169.3 24.8 37.2#
84 133.2 65.2 97.8#

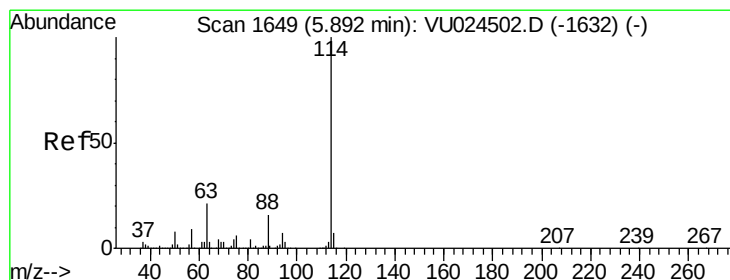
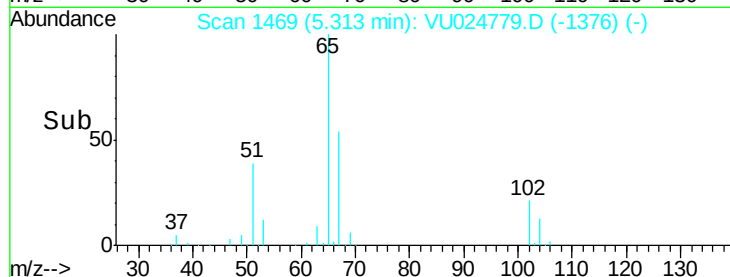
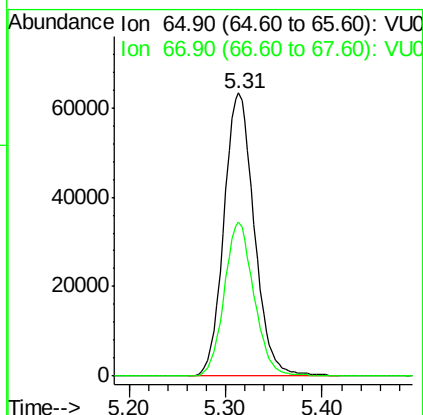
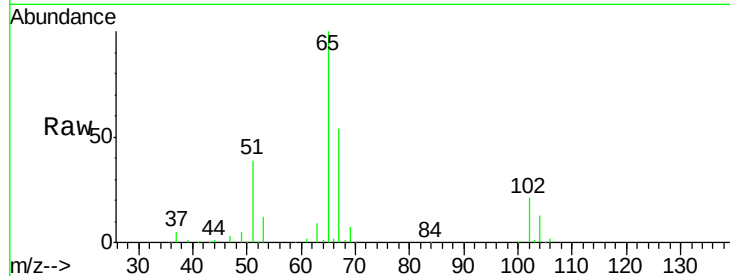




#33
 1,2-Dichloroethane-d4
 Concen: 43.106 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024779.D
 Acq: 21 Jun 2018 00:49

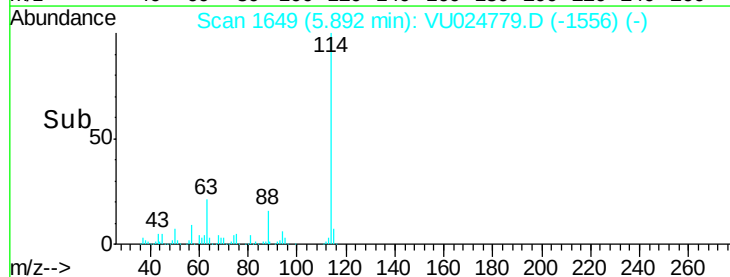
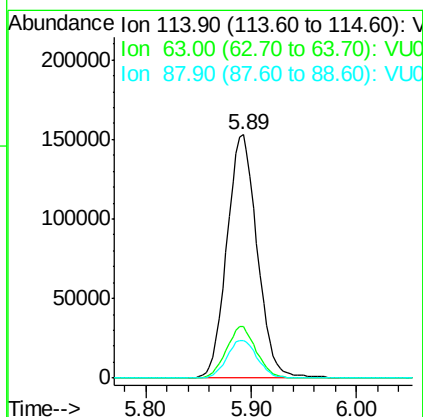
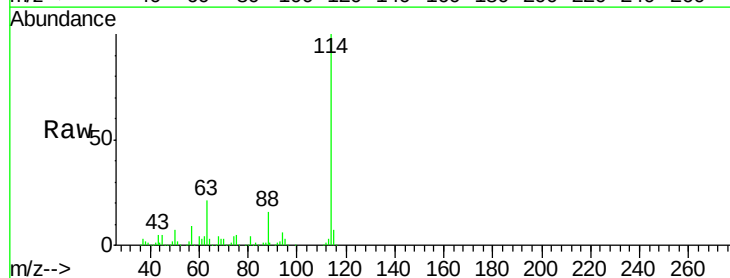
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110408ZHE#20

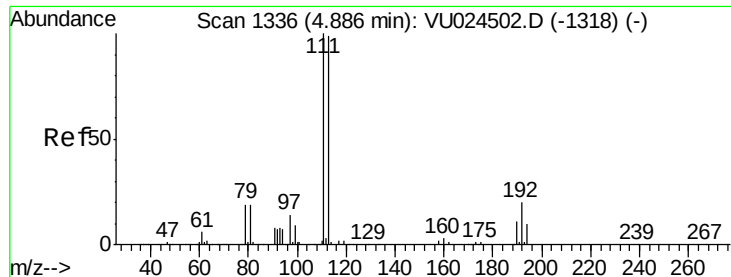
Tgt Ion: 65 Resp: 137534
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024779.D
 Acq: 21 Jun 2018 00:49

Tgt Ion: 114 Resp: 303868
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 45.4
 88 15.5 0.0 31.0

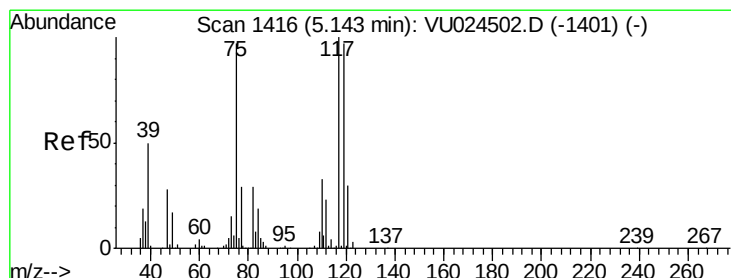
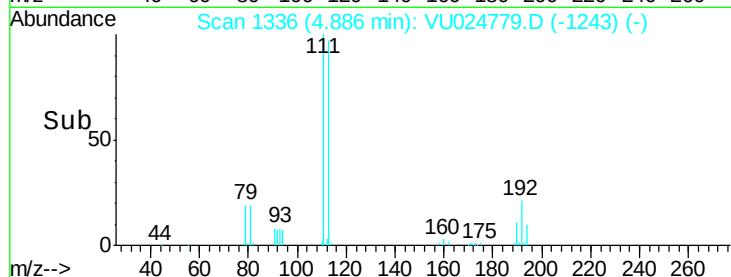
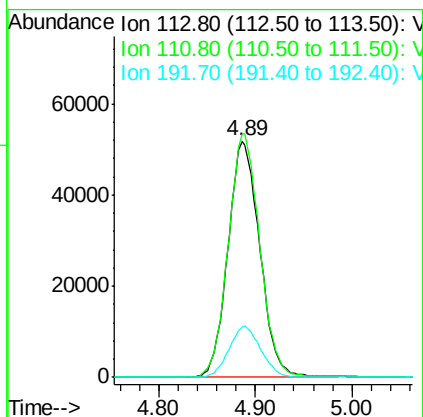
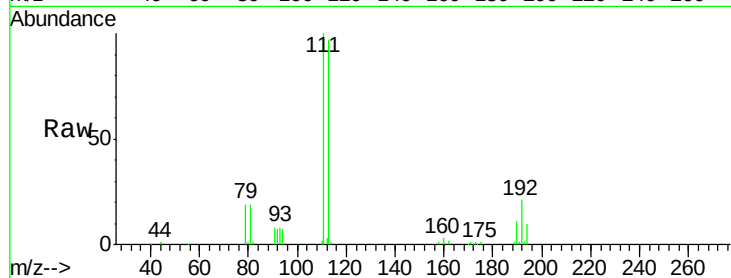




#35
 Dibromofluoromethane
 Concen: 46.972 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU024779.D
 Acq: 21 Jun 2018 00:49

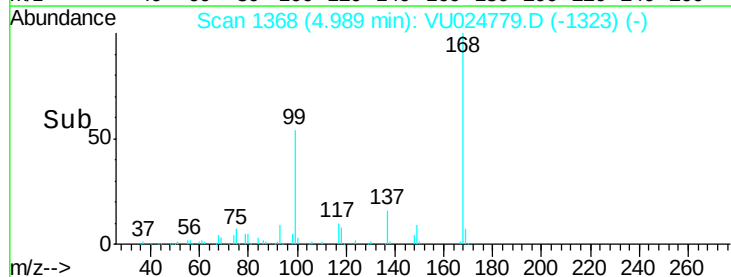
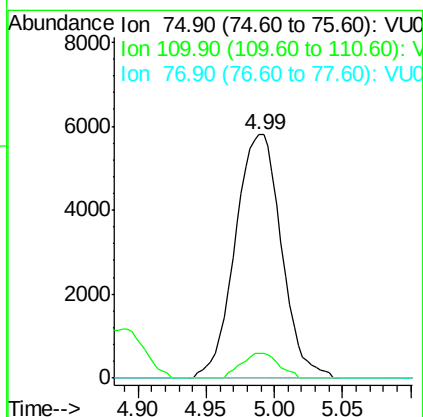
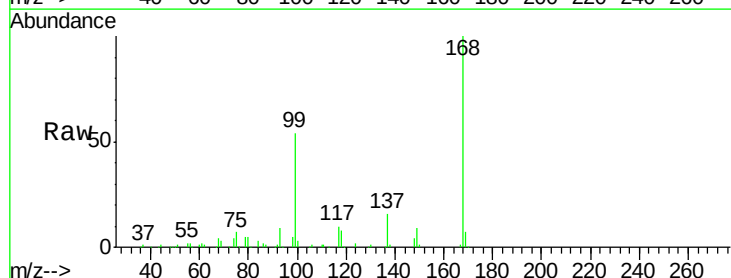
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110408ZHE#20

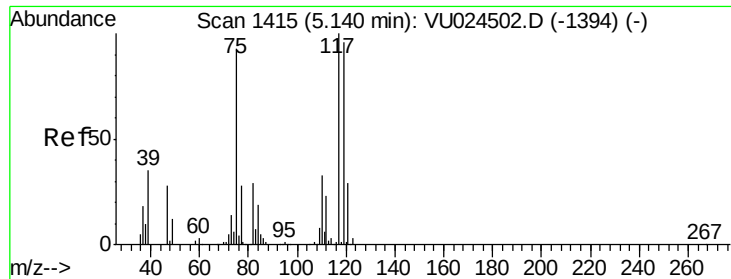
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	21.6	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 3.824 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024779.D
 Acq: 21 Jun 2018 00:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.651 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

PB110408ZHE#20

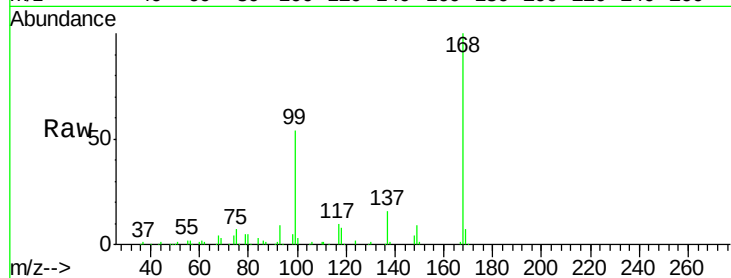
Tgt Ion:117 Resp: 18264

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

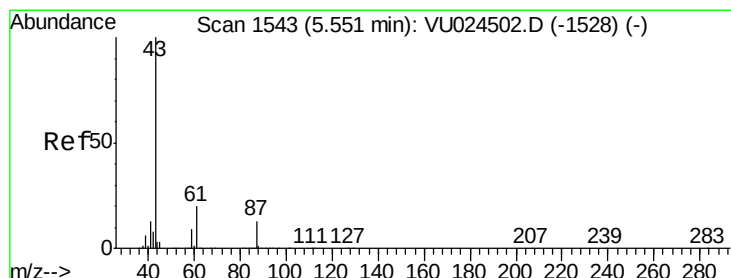
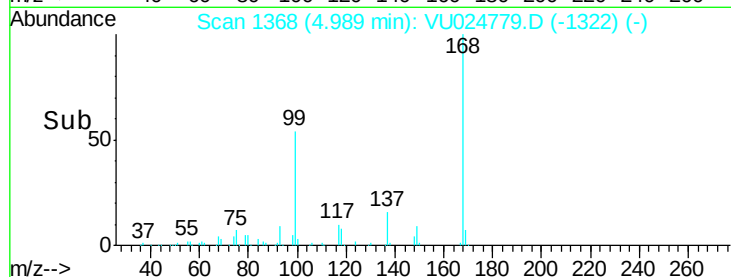
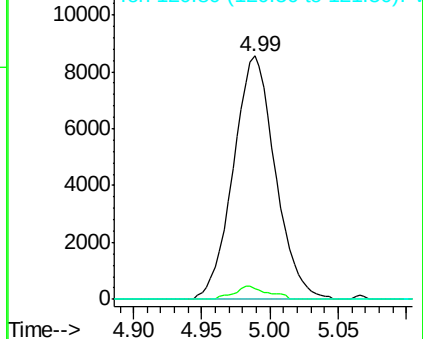
121 0.0 23.7 35.5#



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: 3.786 ug/l

RT: 5.80 min Scan# 1621

Delta R.T. 0.25 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

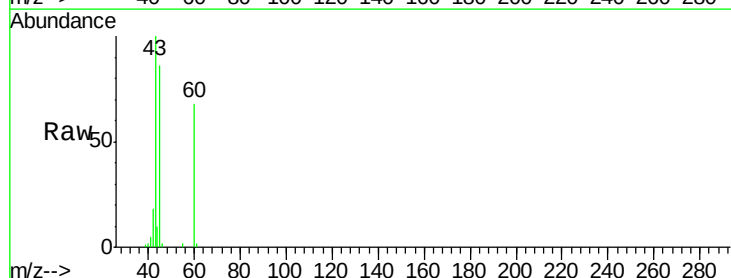
Tgt Ion: 43 Resp: 25472

Ion Ratio Lower Upper

43 100

61 0.7 15.4 23.0#

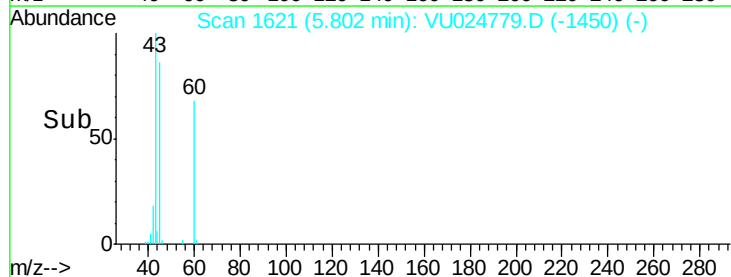
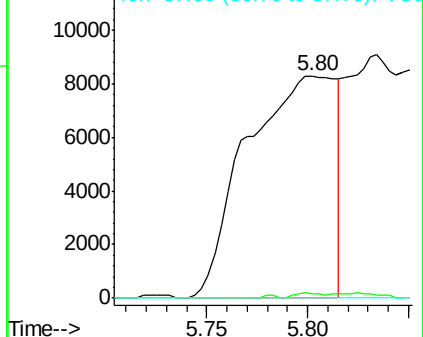
87 0.0 10.0 15.0#

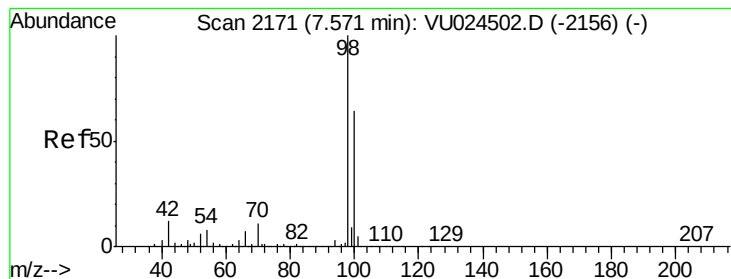


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#50

Toluene-d8

Concen: 47.660 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

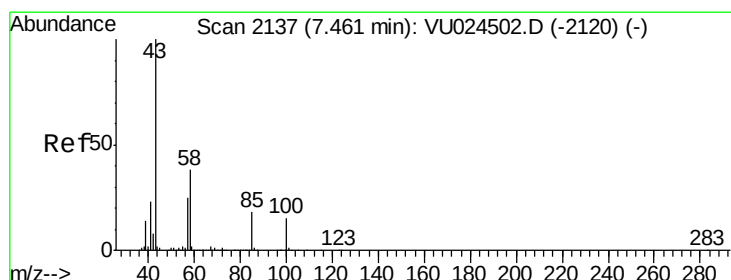
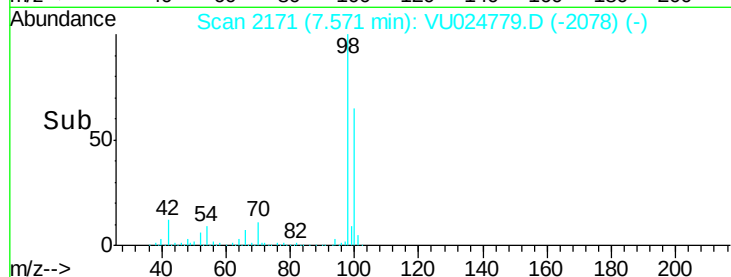
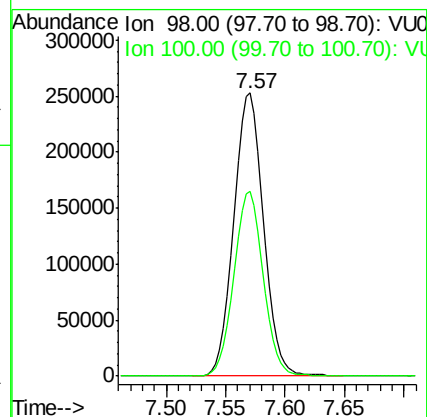
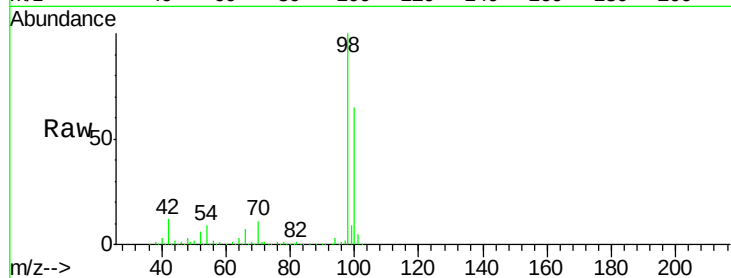
PB110408ZHE#20

Tgt Ion: 98 Resp: 438417

Ion Ratio Lower Upper

98 100

100 64.4 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.316 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU024779.D

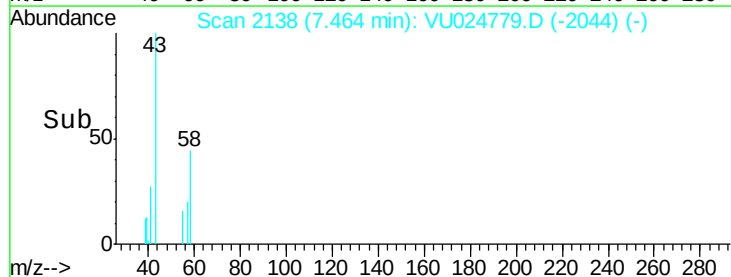
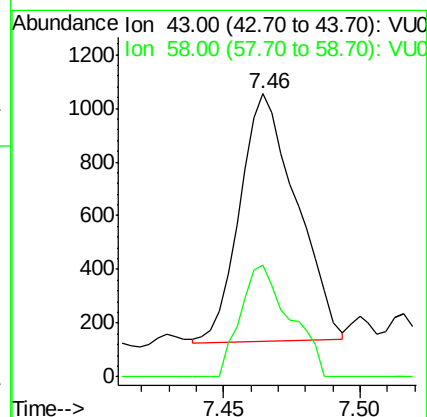
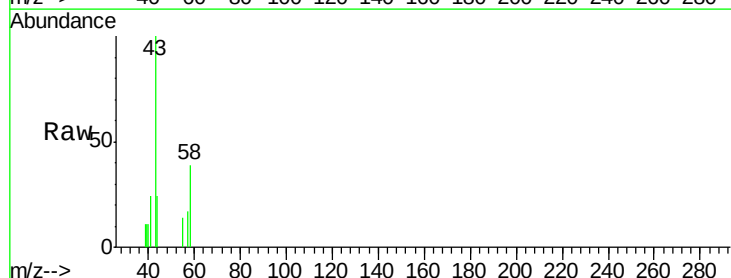
Acq: 21 Jun 2018 00:49

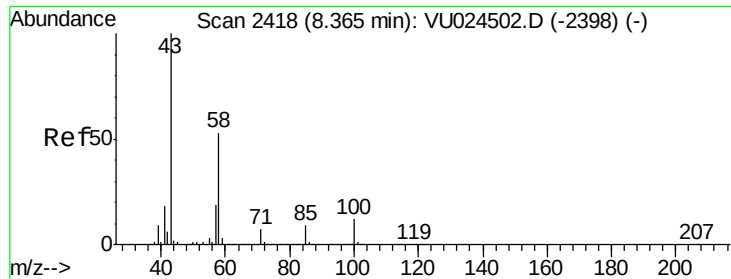
Tgt Ion: 43 Resp: 1336

Ion Ratio Lower Upper

43 100

58 39.4 30.0 45.0

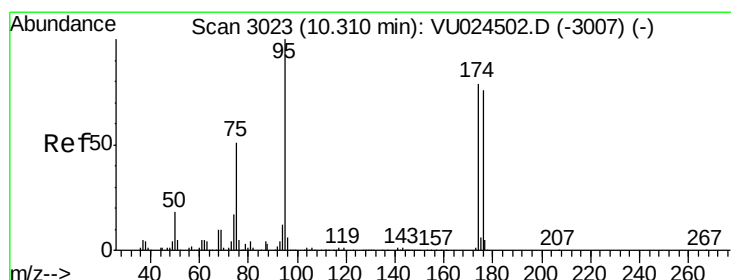
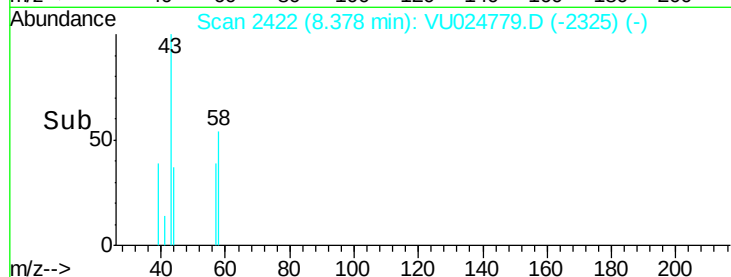
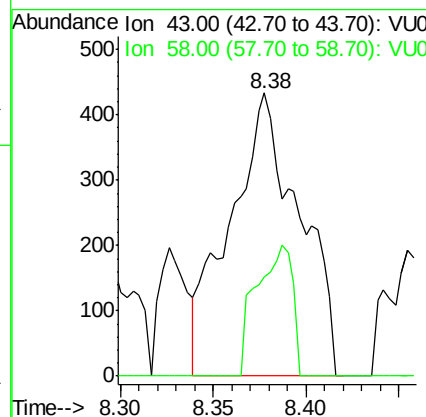
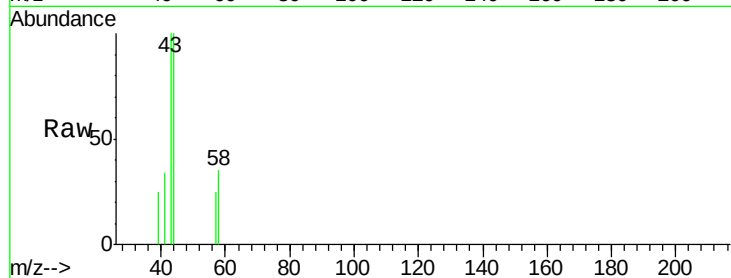




#59
2-Hexanone
Concen: 0.327 ug/l
RT: 8.38 min Scan# 2422
Delta R.T. 0.01 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

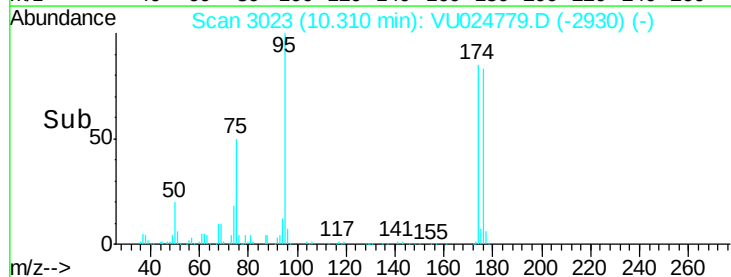
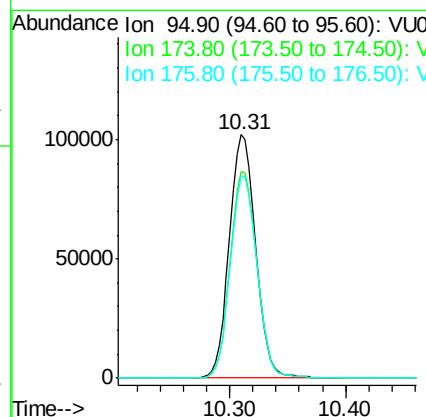
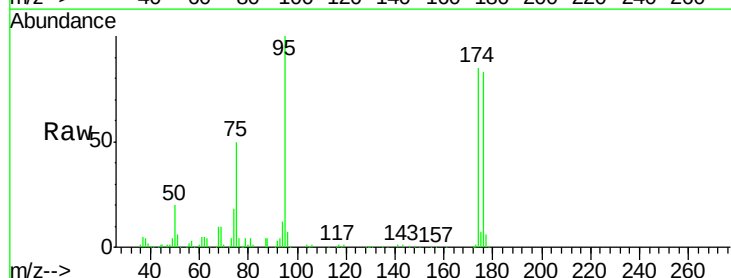
Instrument :
MSVOA_U
ClientSampleId :
PB110408ZHE#20

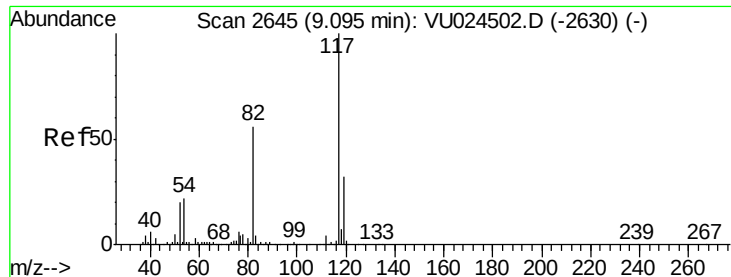
Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
58 24.2 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 43.820 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

Tgt Ion: 95 Resp: 160041
Ion Ratio Lower Upper
95 100
174 85.7 0.0 165.8
176 84.3 0.0 159.4

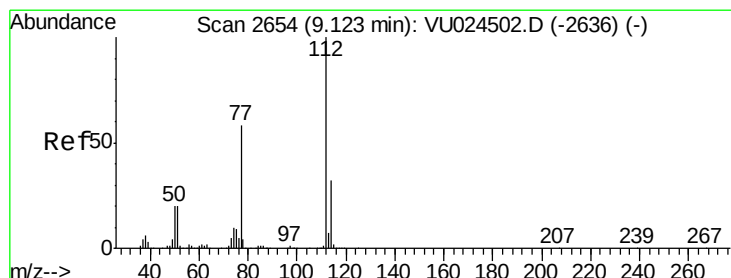
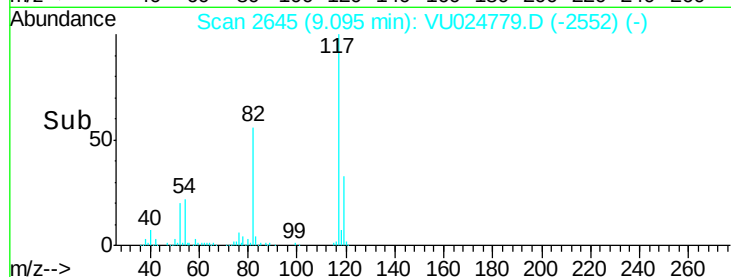
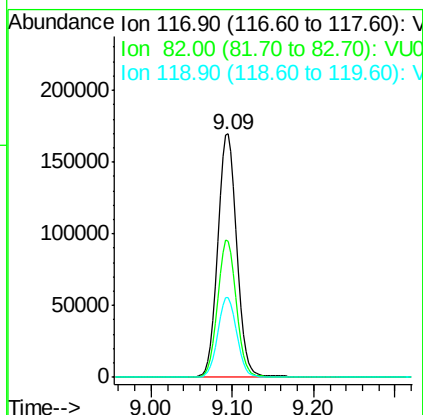
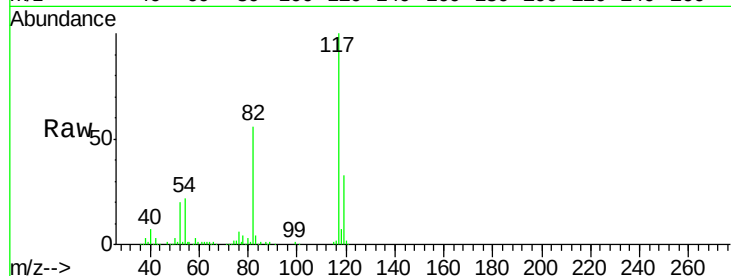




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

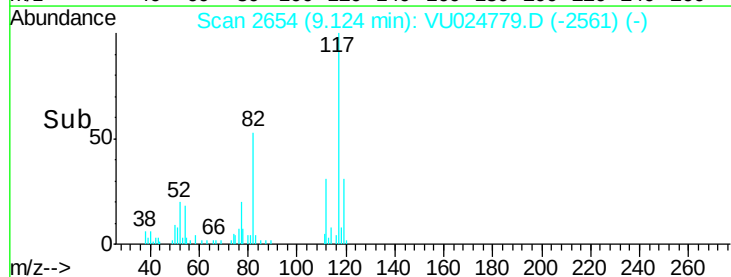
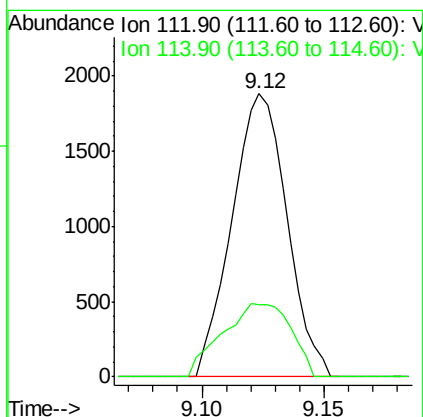
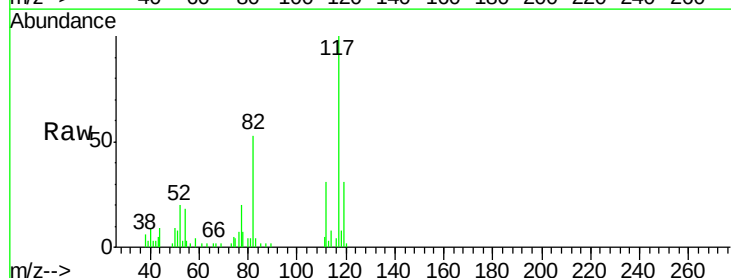
Instrument :
MSVOA_U
ClientSampleId :
PB110408ZHE#20

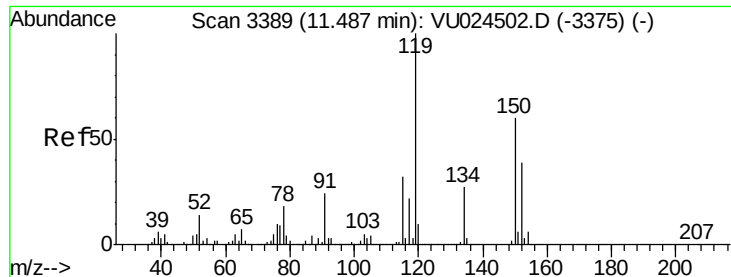
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.3	66.5
119	32.6	25.4	38.2



#65
Chlorobenzene
Concen: 0.409 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024779.D
Acq: 21 Jun 2018 00:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	25.6	25.6	38.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

PB110408ZHE#20

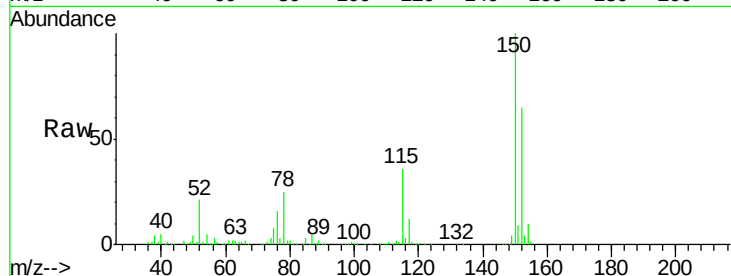
Tgt Ion:152 Resp: 152856

Ion Ratio Lower Upper

152 100

115 56.3 43.0 129.0

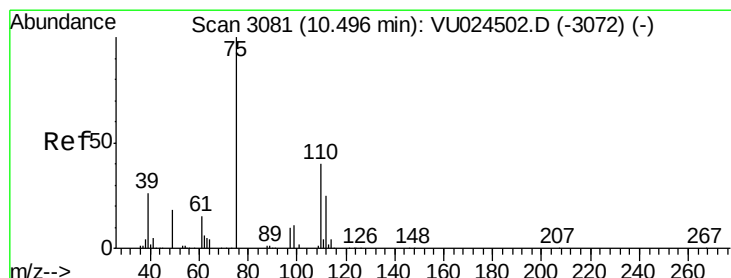
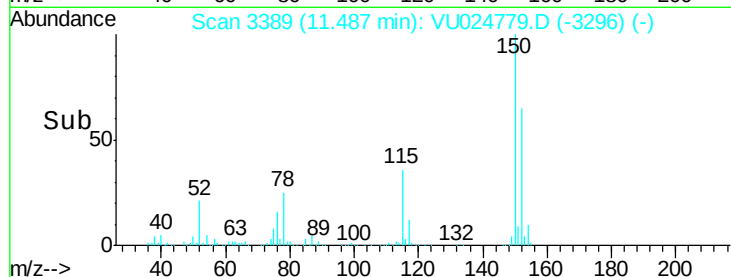
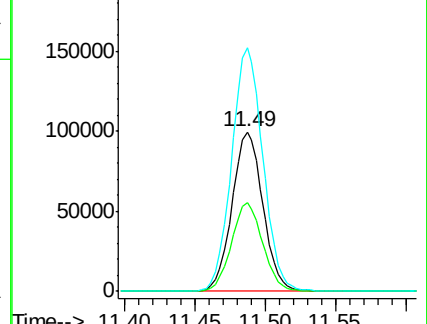
150 154.7 0.0 354.0



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: 24.360 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024779.D

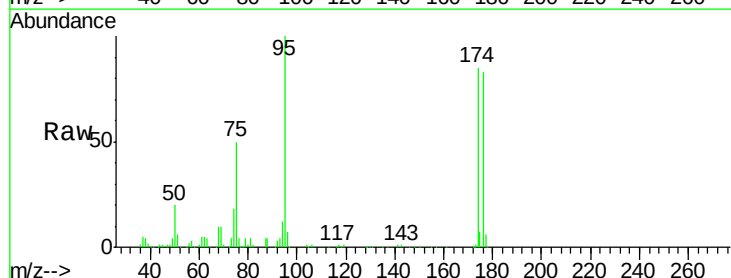
Acq: 21 Jun 2018 00:49

Tgt Ion: 75 Resp: 81981

Ion Ratio Lower Upper

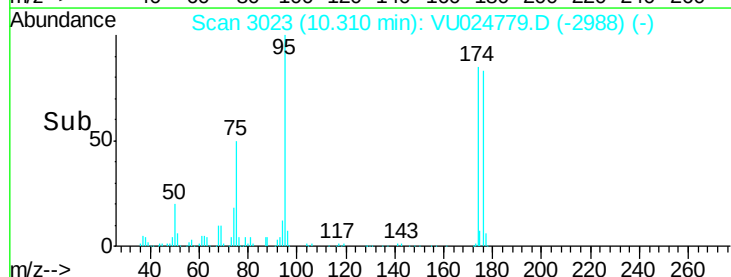
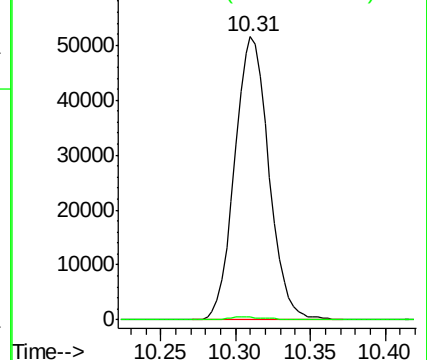
75 100

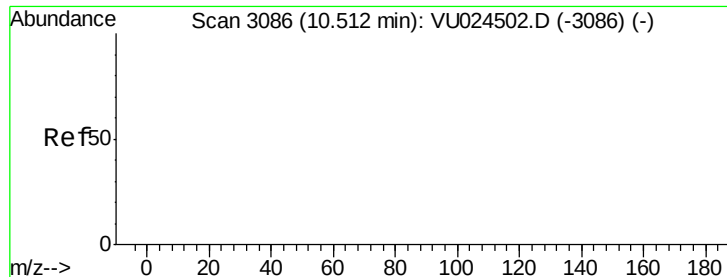
77 1.1 20.9 62.7#



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: 56.380 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

PB110408ZHE#20

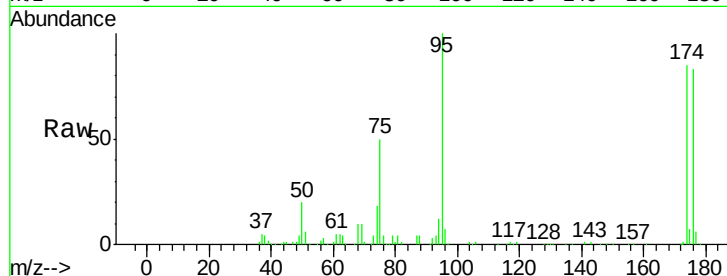
Tgt Ion: 75 Resp: 81981

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

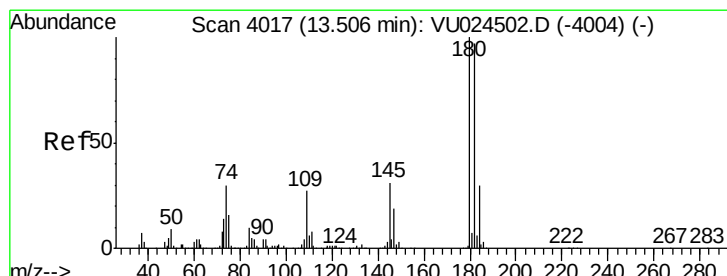
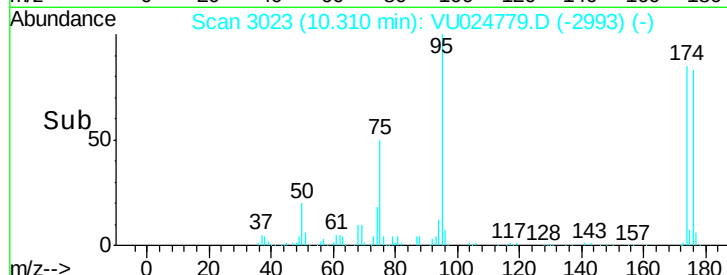
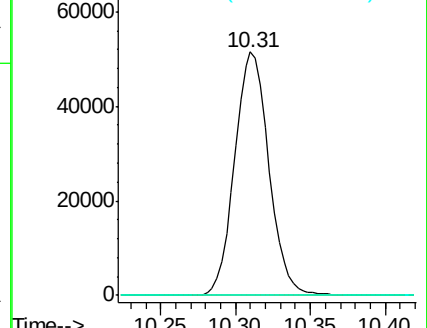
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.221 ug/l

RT: 13.52 min Scan# 4020

Delta R.T. 0.01 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

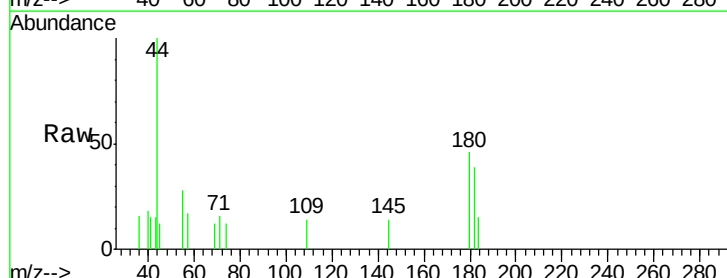
Tgt Ion: 180 Resp: 749

Ion Ratio Lower Upper

180 100

182 104.8 48.0 144.2

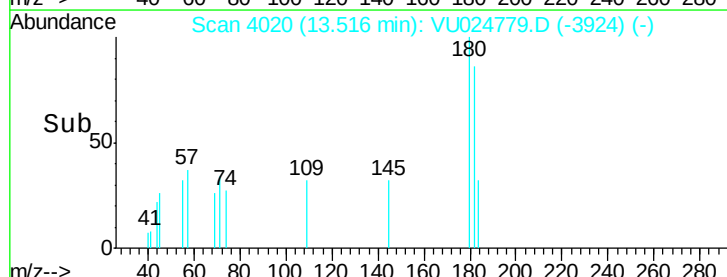
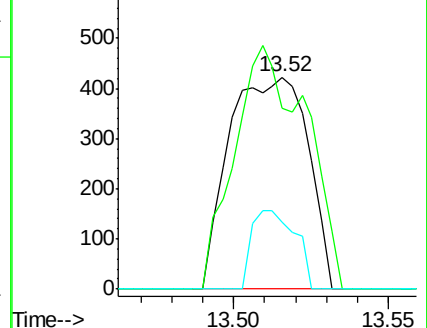
145 20.4 14.7 44.1

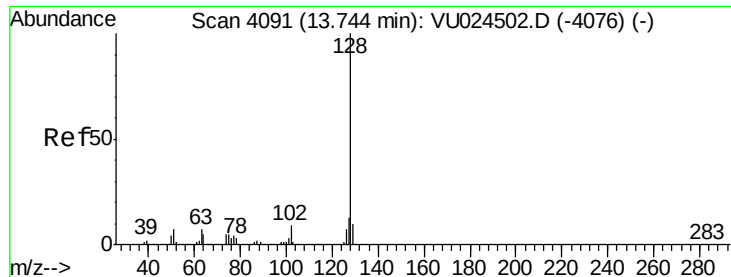


Abundance Ion 179.80 (179.50 to 180.50): VU024502.D (-4004) (-)

Ion 181.80 (181.50 to 182.50): VU024502.D (-4004) (-)

Ion 144.80 (144.50 to 145.50): VU024502.D (-4004) (-)





#95

Naphthalene

Concen: 1.221 ug/l

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

Instrument :

MSVOA_U

ClientSampleId :

PB110408ZHE#20

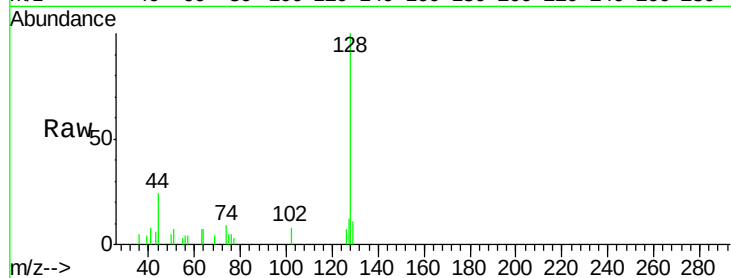
Tgt Ion:128 Resp: 6170

Ion Ratio Lower Upper

128 100

127 12.5 10.6 16.0

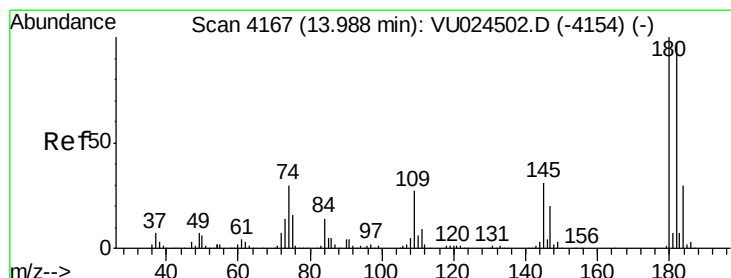
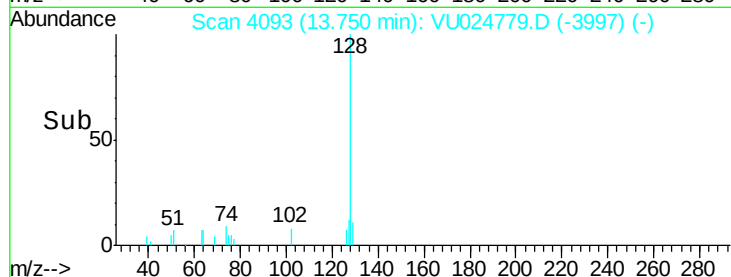
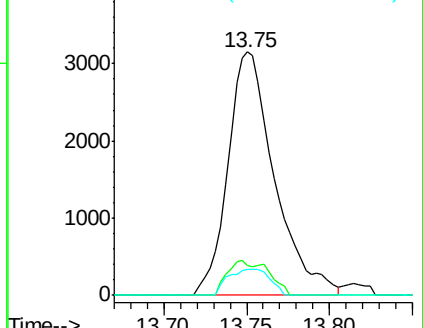
129 9.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.349 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU024779.D

Acq: 21 Jun 2018 00:49

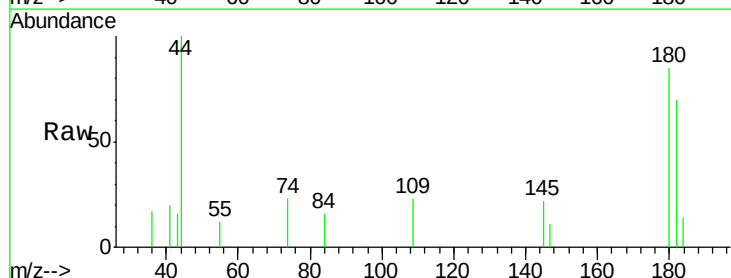
Tgt Ion:180 Resp: 1181

Ion Ratio Lower Upper

180 100

182 85.2 47.9 143.7

145 16.9 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

