

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030010.D
 Acq On : 12 Mar 2019 16:46
 Operator : JC/SP
 Sample : K1850-01DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 38023-122017DL

Quant Time: Mar 13 09:38:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

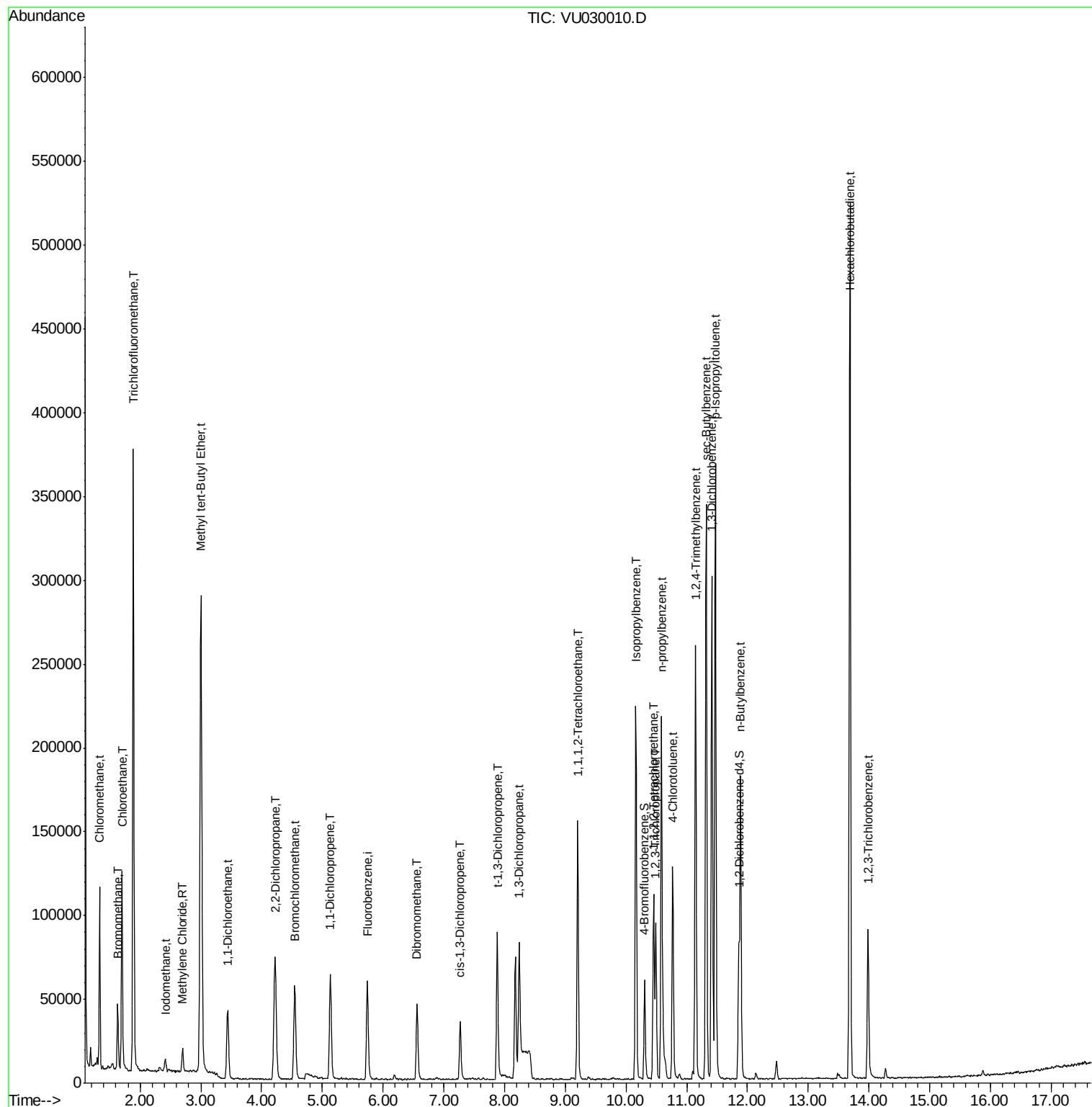
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	63565	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	21179	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	24605	0.94	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.00%	
Target Compounds						
						Qvalue
3) Chloromethane	1.33	50	73644	2.785	ug/l	99
5) Bromomethane	1.63	94	18391	1.420	ug/l	94
6) Chloroethane	1.70	64	77115	5.893	ug/l	99
7) Trichlorofluoromethane	1.89	101	239729	8.153	ug/l	98
10) Iodomethane	2.41	142	7410	0.539	ug/l	96
15) Methylene Chloride	2.70	84	6358	0.337	ug/l	96
17) 1,1-Dichloroethane	3.44	63	46312	1.496	ug/l	100
21) 2,2-Dichloropropane	4.22	77	66890	2.569	ug/l	92
25) Methyl tert-Butyl Ether	3.00	73	330022	8.240	ug/l	100
26) Bromochloromethane	4.55	128	21373	2.399	ug/l	98
29) 1,1-Dichloropropene	5.13	75	38373	1.573	ug/l	97
43) Dibromomethane	6.56	93	18202	1.938	ug/l	99
50) t-1,3-Dichloropropene	7.88	75	52262	2.605	ug/l	97
51) cis-1,3-Dichloropropene	7.27	75	22940	0.910	ug/l	96
53) 1,3-Dichloropropane	8.24	76	46587	2.098	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	43953	2.531	ug/l	99
69) Isopropylbenzene	10.16	105	147736	1.819	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.46	83	58156	3.555	ug/l	97
71) 1,2,3-Trichloropropane	10.49	75	40303	3.277	ug/l #	88
73) n-propylbenzene	10.58	120	39499	1.714	ug/l	99
76) 4-Chlorotoluene	10.77	126	27007	1.311	ug/l	75
78) 1,2,4-Trimethylbenzene	11.15	105	150567	2.140	ug/l	100
79) sec-Butylbenzene	11.32	105	241487	2.661	ug/l	100
81) p-Isopropyltoluene	11.47	119	214978	2.825	ug/l	99
82) 1,3-Dichlorobenzene	11.41	146	138108	3.210	ug/l	100
84) n-Butylbenzene	11.89	91	102432	1.441	ug/l	97
88) Hexachlorobutadiene	13.69	225	106109	6.775	ug/l	98
90) 1,2,3-Trichlorobenzene	13.99	180	33141	1.266	ug/l	98
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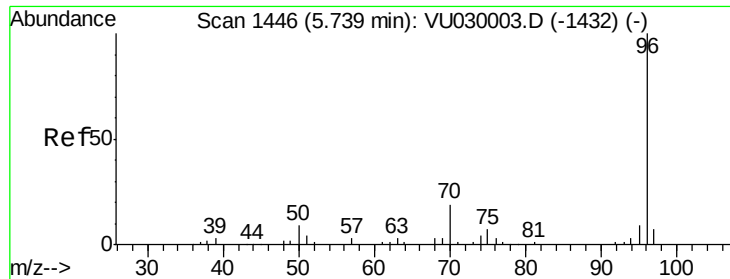
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Wed Mar 13 04:21:52 2019
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1447

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

38023-122017DL

Tgt Ion: 96 Resp: 63565

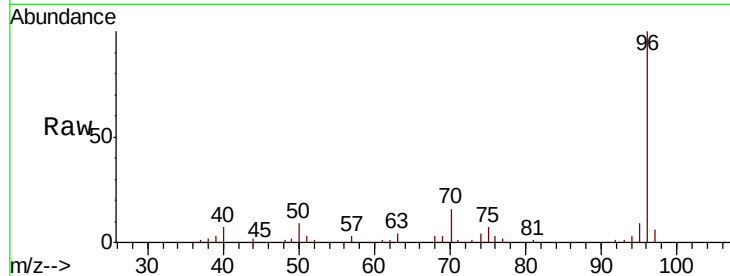
Ion Ratio Lower Upper

96 100

70 17.7 15.5 23.3

95 8.7 6.6 9.8

97 6.1 0.0 0.0#

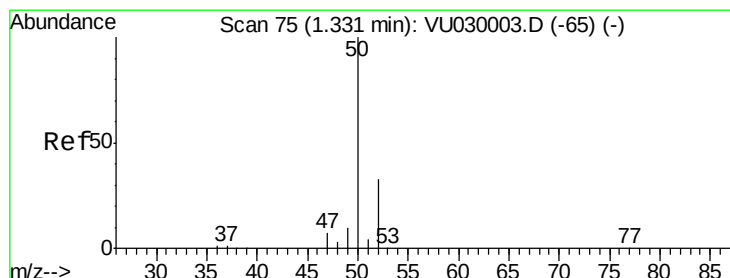
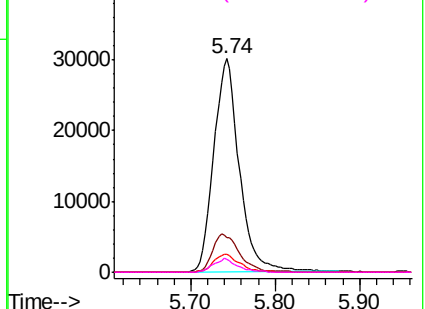
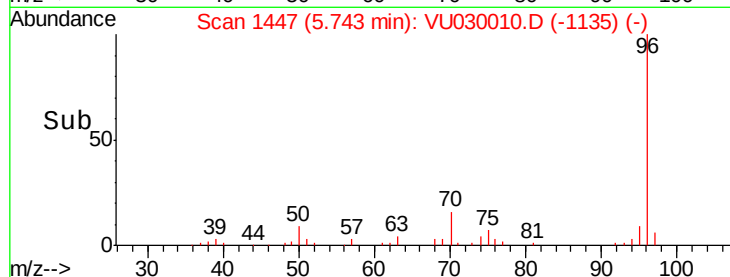


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#3

Chloromethane

Concen: 2.785 ug/l

RT: 1.33 min Scan# 75

Delta R.T. -0.00 min

Lab File: VU030010.D

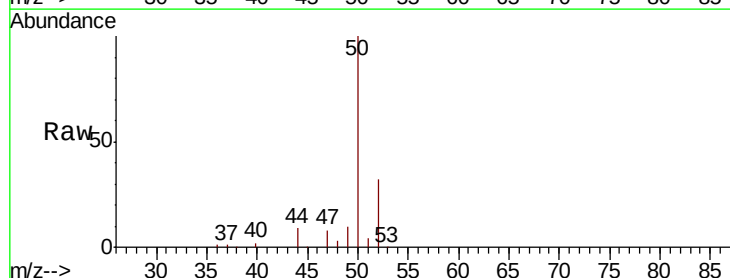
Acq: 12 Mar 2019 16:46

Tgt Ion: 50 Resp: 73644

Ion Ratio Lower Upper

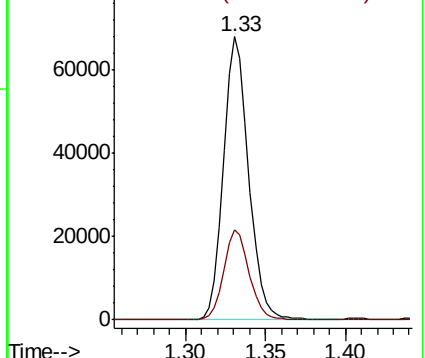
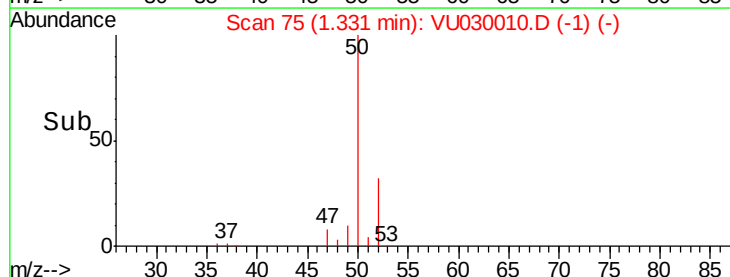
50 100

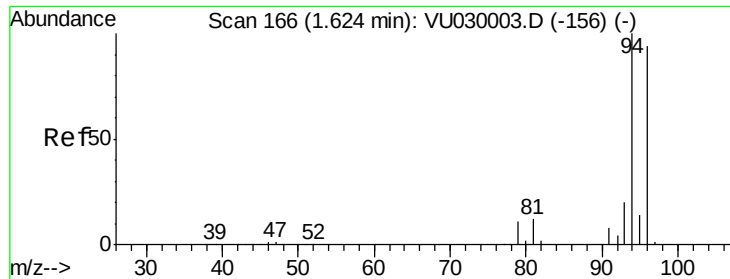
52 32.0 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

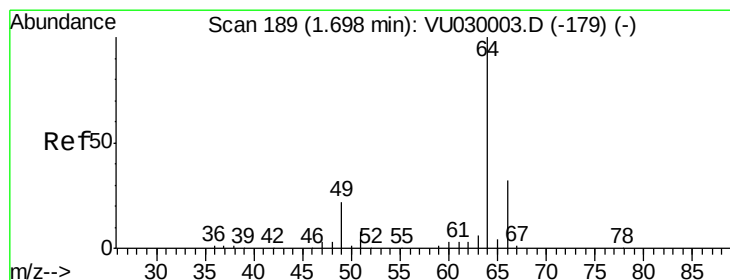
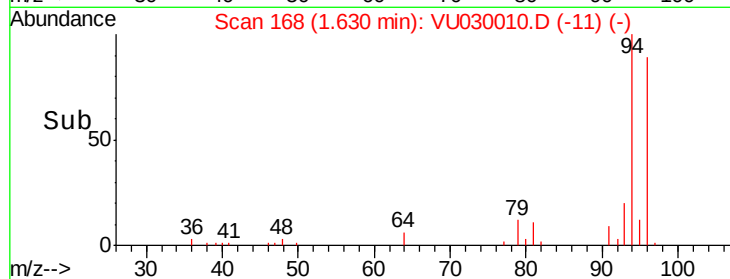
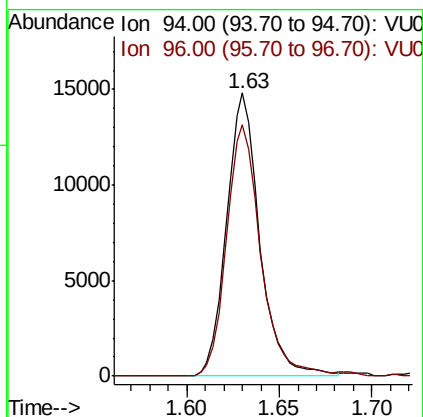
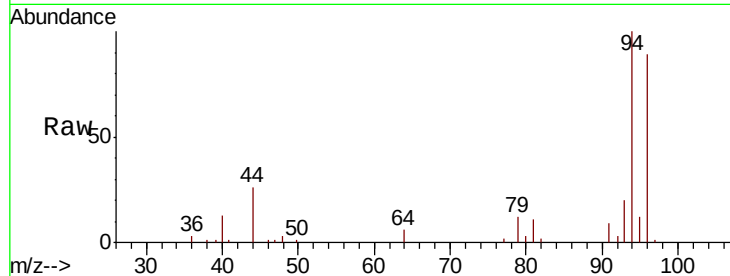




#5
Bromomethane
Concen: 1.420 ug/l
RT: 1.63 min Scan# 168
Delta R.T. 0.01 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

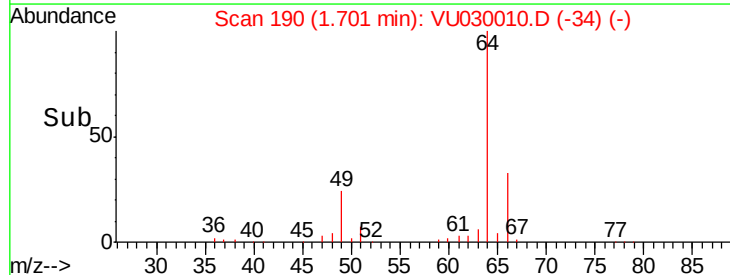
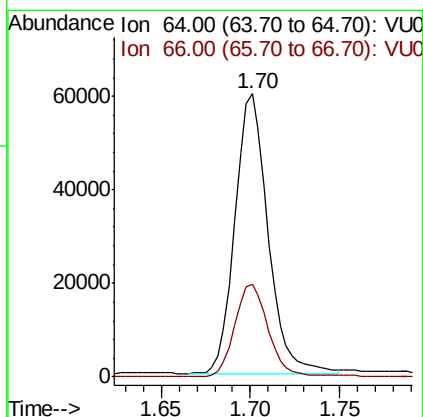
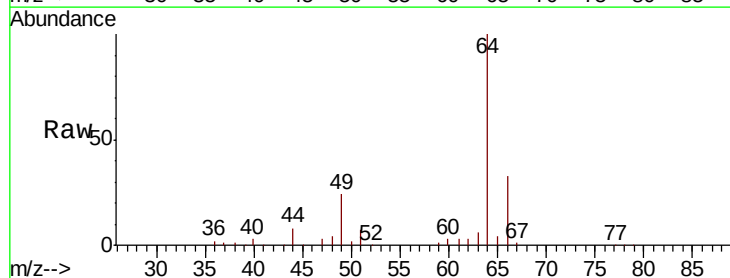
Instrument :
MSVOA_U
ClientSampleId :
38023-122017DL

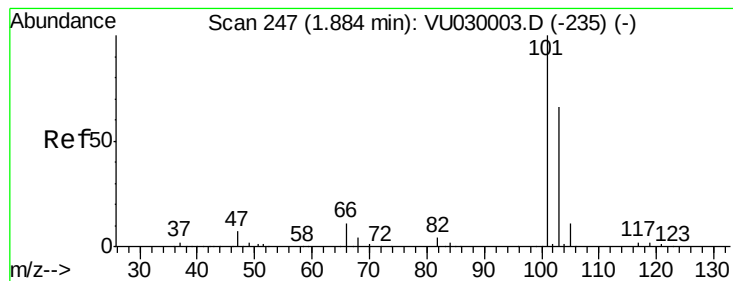
Tgt Ion: 94 Resp: 18391
Ion Ratio Lower Upper
94 100
96 88.7 75.2 112.8



#6
Chloroethane
Concen: 5.893 ug/l
RT: 1.70 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

Tgt Ion: 64 Resp: 77115
Ion Ratio Lower Upper
64 100
66 32.9 25.8 38.6





#7

Trichlorofluoromethane

Concen: 8.153 ug/l

RT: 1.89 min Scan# 248

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

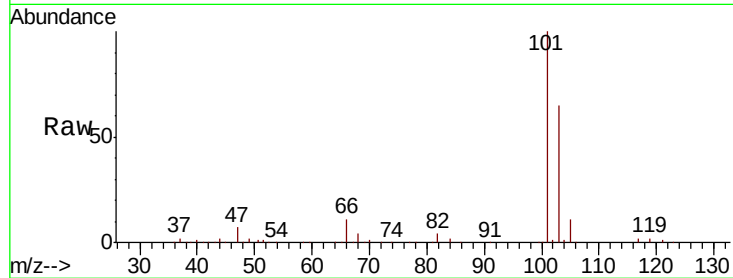
38023-122017DL

Tgt Ion:101 Resp: 239729

Ion Ratio Lower Upper

101 100

103 64.5 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.89

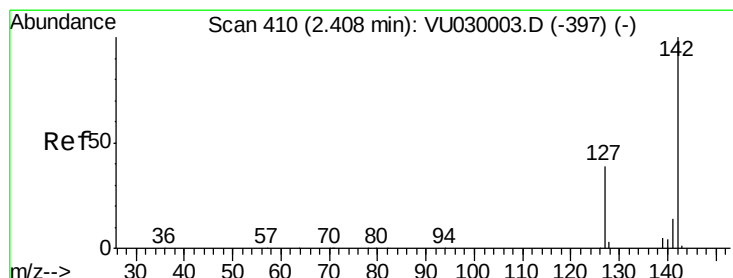
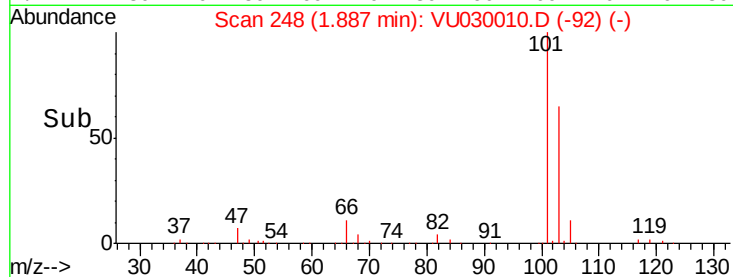
150000

100000

50000

0

Time-->



#10

Iodomethane

Concen: 0.539 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU030010.D

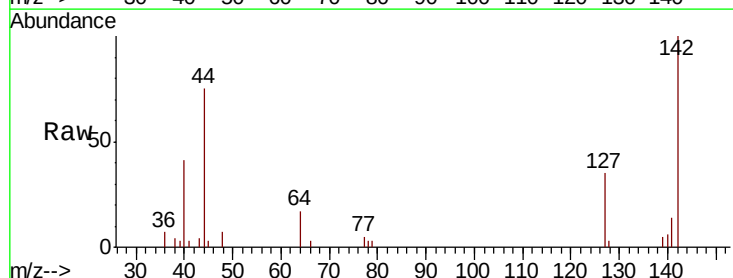
Acq: 12 Mar 2019 16:46

Tgt Ion:142 Resp: 7410

Ion Ratio Lower Upper

142 100

127 37.8 32.2 48.4



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

2.41

5000

4000

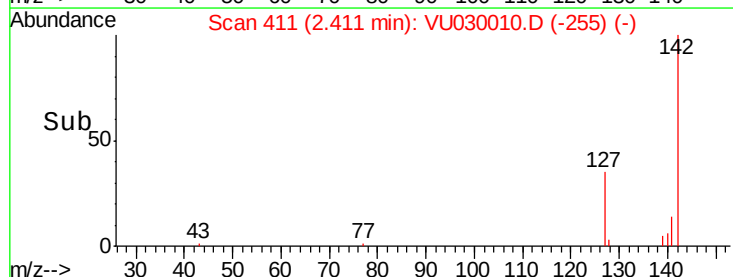
3000

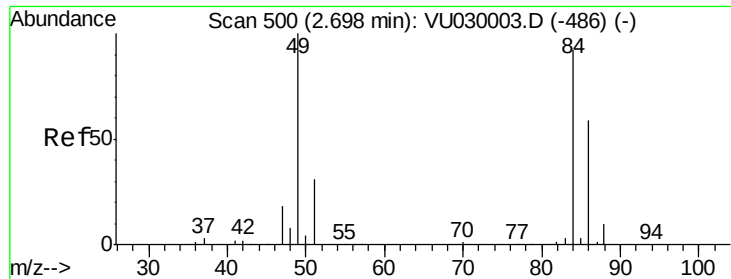
2000

1000

0

Time-->

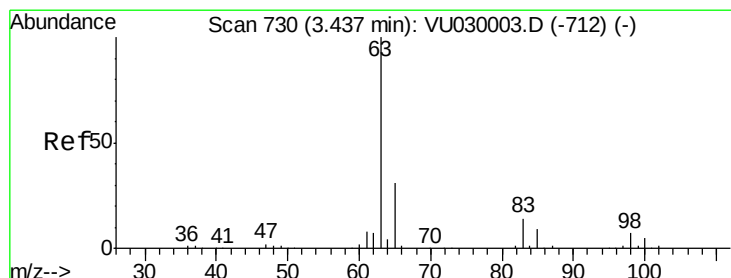
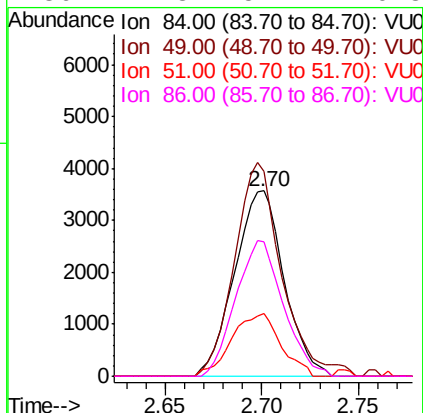
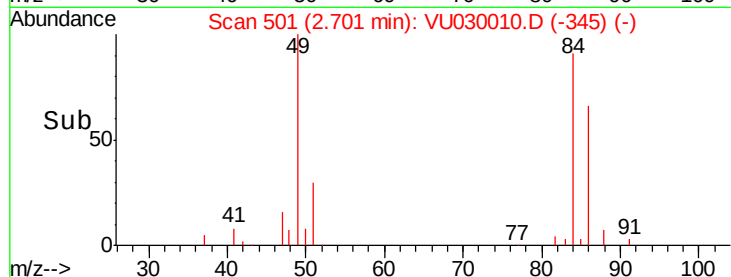
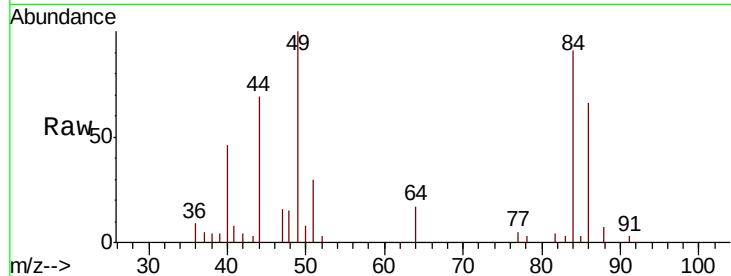




#15
Methylene Chloride
Concen: 0.337 ug/l
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

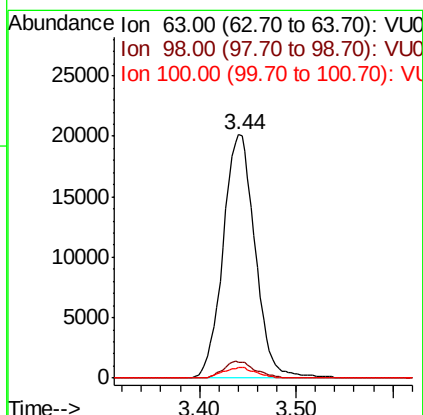
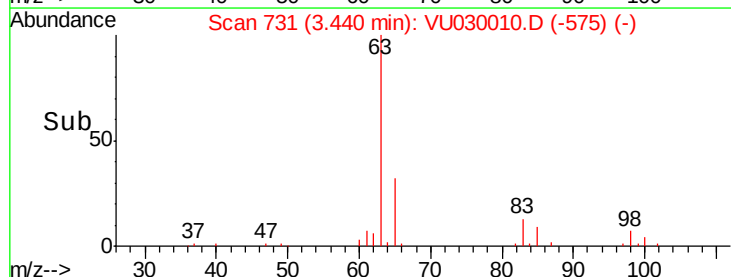
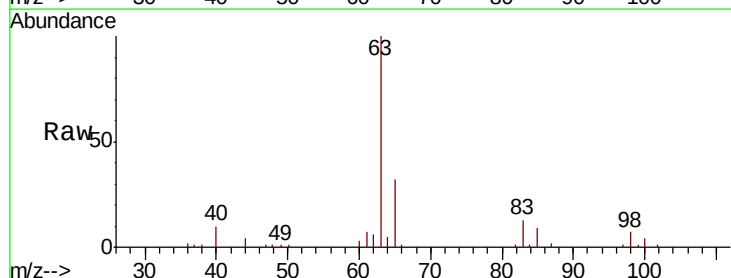
Instrument :
MSVOA_U
ClientSampleId :
38023-122017DL

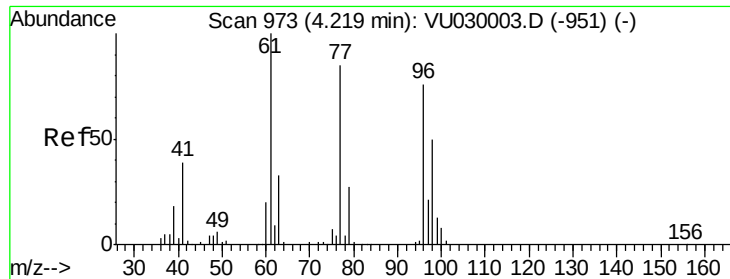
Tgt Ion: 84 Resp: 6358
Ion Ratio Lower Upper
84 100
49 110.3 86.5 129.7
51 33.5 0.0 66.8
86 72.3 51.2 76.8



#17
1,1-Dichloroethane
Concen: 1.496 ug/l
RT: 3.44 min Scan# 731
Delta R.T. 0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

Tgt Ion: 63 Resp: 46312
Ion Ratio Lower Upper
63 100
98 6.6 3.4 10.2
100 4.4 2.3 6.8





#21

2,2-Dichloropropane

Concen: 2.569 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

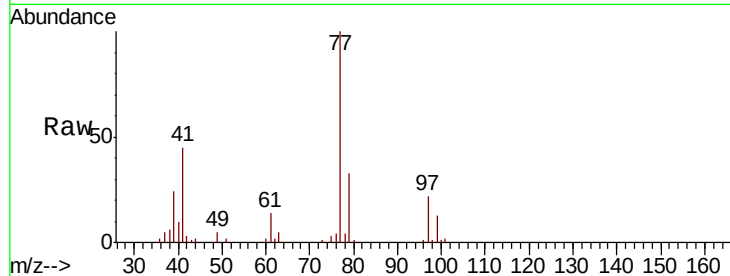
38023-122017DL

Tgt Ion: 77 Resp: 66890

Ion Ratio Lower Upper

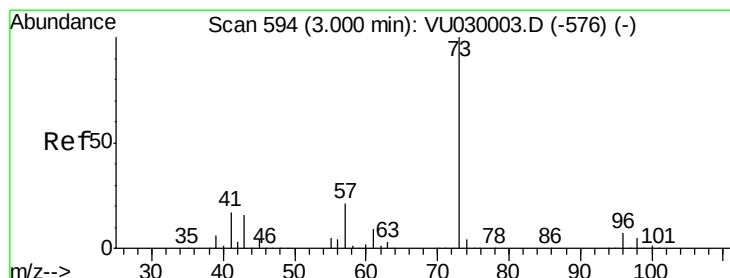
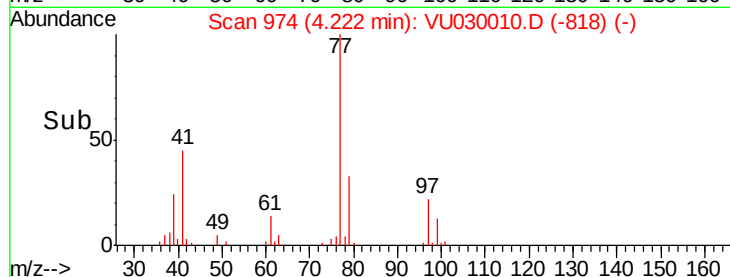
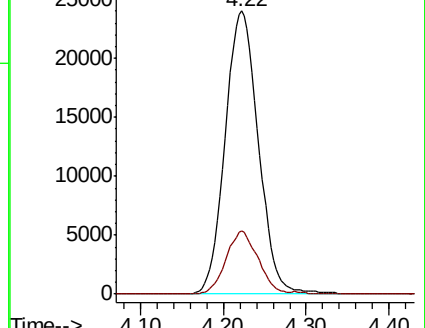
77 100

97 21.4 20.2 30.4



Abundance Ion 77.00 (76.70 to 77.70): VU030003.D (-951) (-)

Ion 97.00 (96.70 to 97.70): VU030003.D (-951) (-)



#25

Methyl tert-Butyl Ether

Concen: 8.240 ug/l

RT: 3.00 min Scan# 594

Delta R.T. -0.00 min

Lab File: VU030010.D

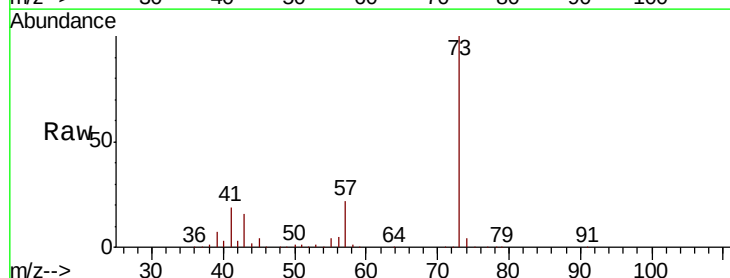
Acq: 12 Mar 2019 16:46

Tgt Ion: 73 Resp: 330022

Ion Ratio Lower Upper

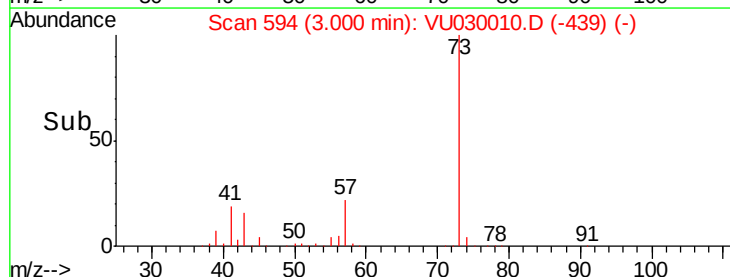
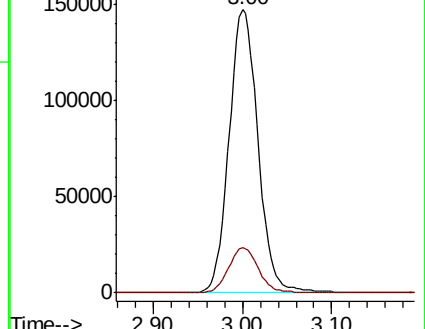
73 100

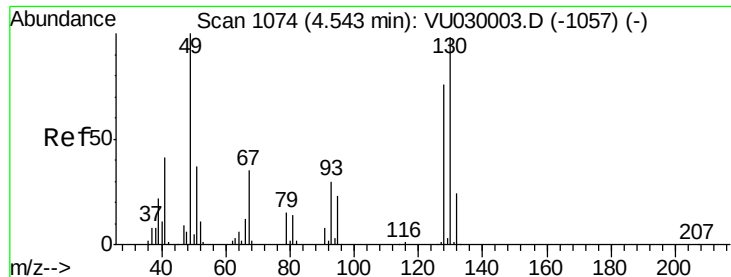
43 16.4 13.1 19.7



Abundance Ion 73.00 (72.70 to 73.70): VU030003.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030003.D (-576) (-)





#26

Bromochloromethane

Concen: 2.399 ug/l

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

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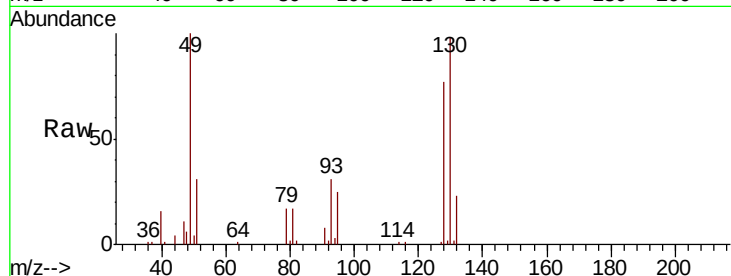
Tgt Ion:128 Resp: 21373

Ion Ratio Lower Upper

128 100

49 136.1 0.0 270.4

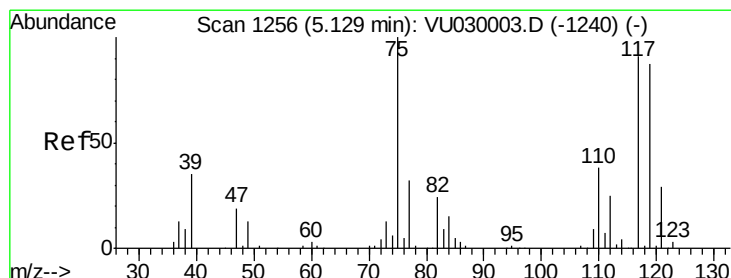
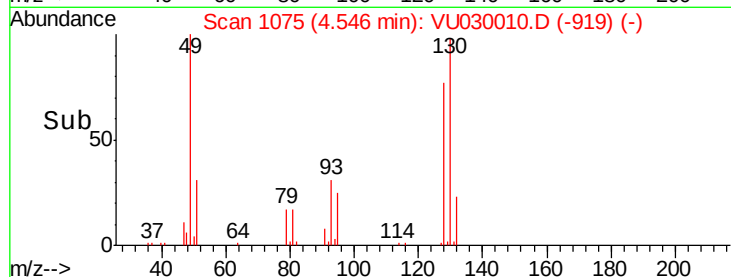
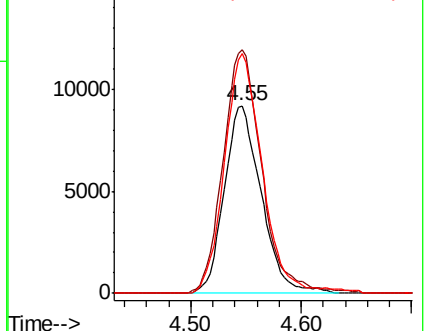
130 131.0 102.6 153.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VU0

Ion 130.00 (129.70 to 130.70): V



#29

1,1-Dichloropropene

Concen: 1.573 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

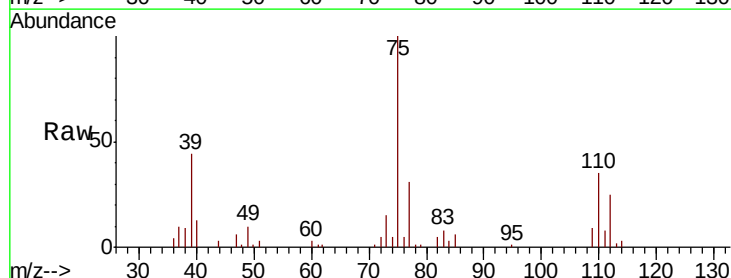
Tgt Ion: 75 Resp: 38373

Ion Ratio Lower Upper

75 100

110 36.1 19.1 57.3

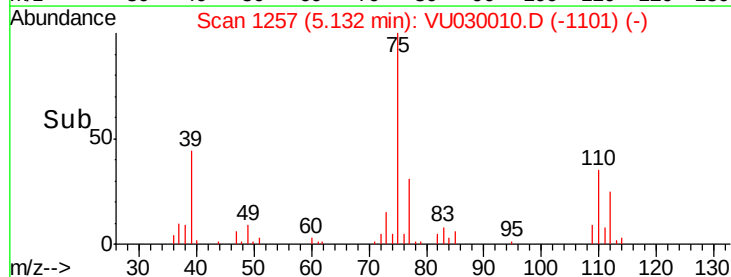
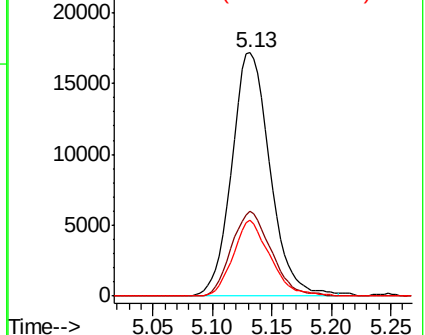
77 30.1 25.2 37.8

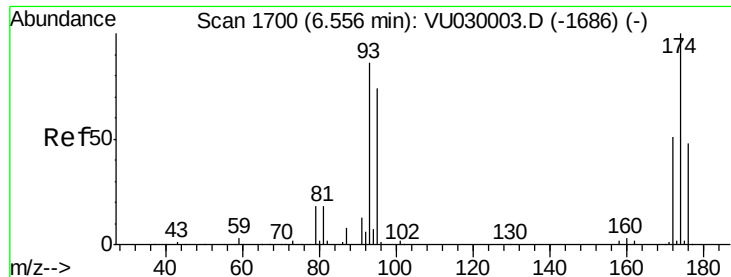


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VU0





#43

Dibromomethane

Concen: 1.938 ug/l

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

38023-122017DL

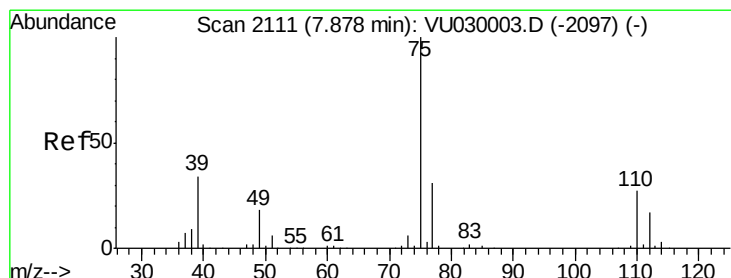
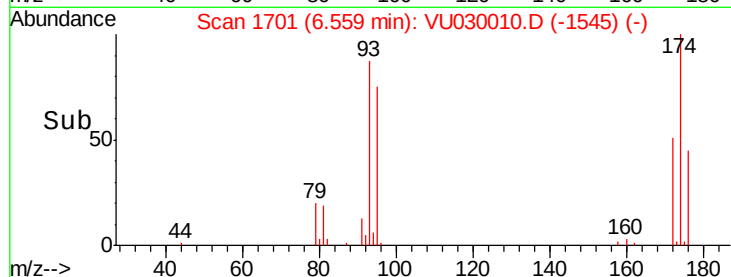
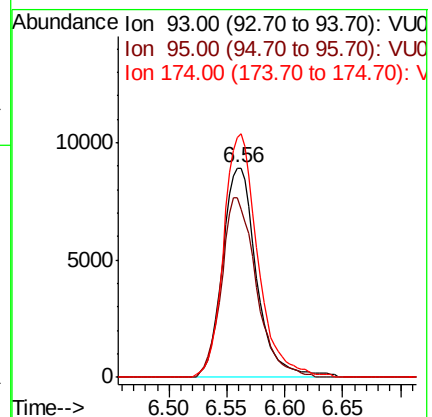
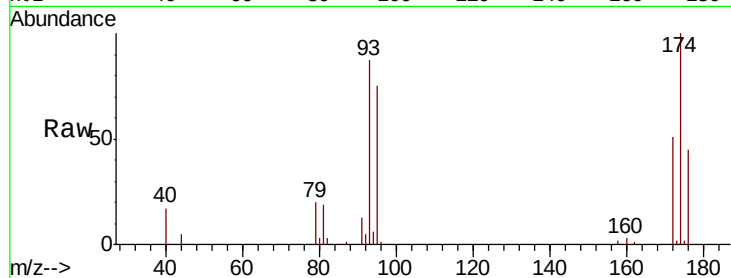
Tgt Ion: 93 Resp: 18202

Ion Ratio Lower Upper

93 100

95 87.3 68.6 102.8

174 115.8 91.8 137.8



#50

t-1,3-Dichloropropene

Concen: 2.605 ug/l

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU030010.D

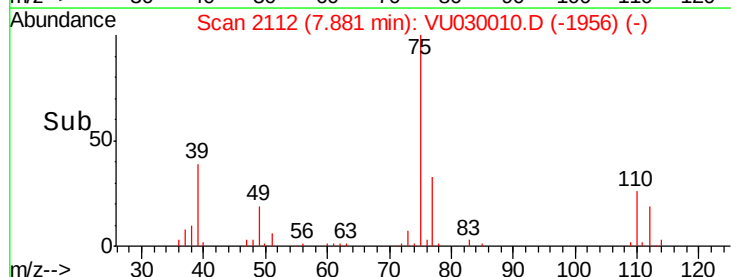
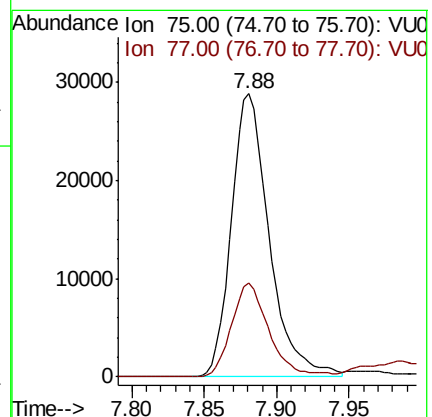
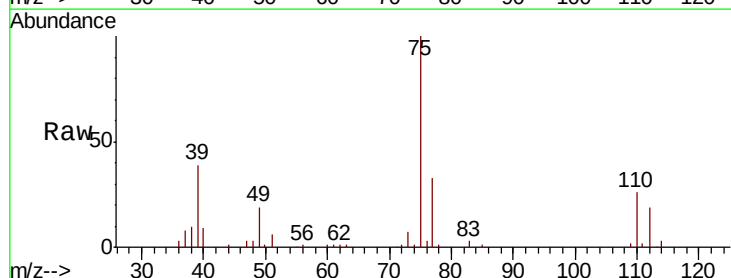
Acq: 12 Mar 2019 16:46

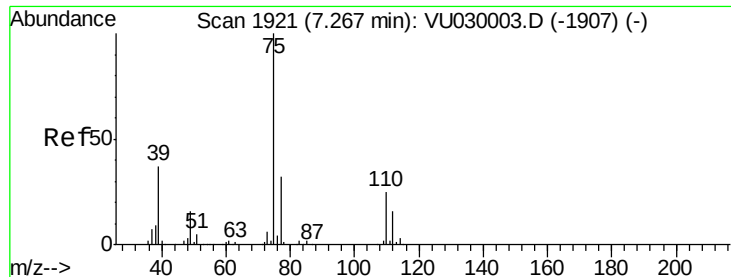
Tgt Ion: 75 Resp: 52262

Ion Ratio Lower Upper

75 100

77 33.0 25.1 37.7



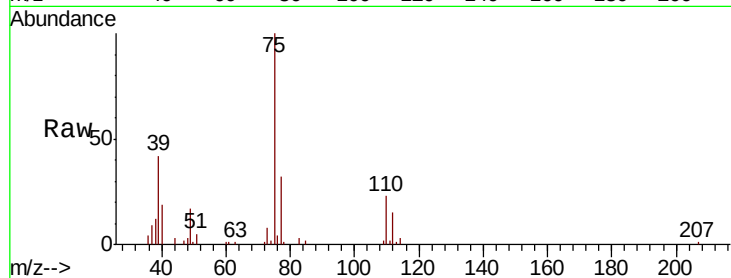


#51

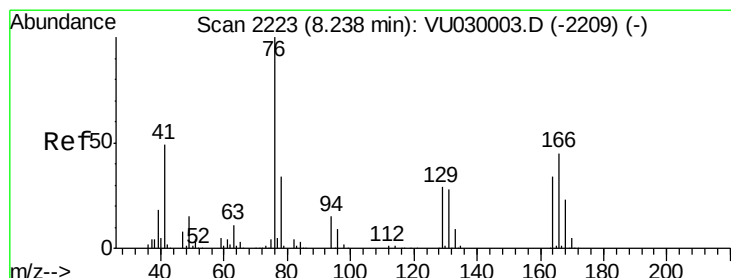
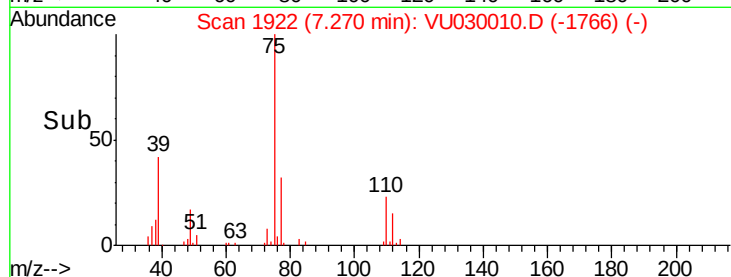
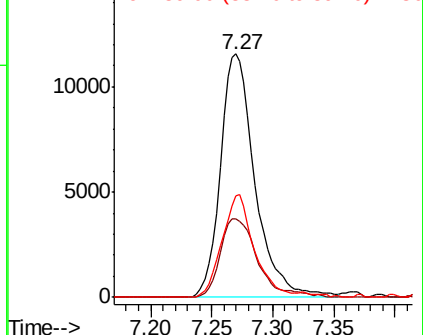
cis-1,3-Dichloropropene
 Concen: 0.910 ug/l
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU030010.D
 Acq: 12 Mar 2019 16:46

Instrument :
 MSVOA_U
 ClientSampleId :
 38023-122017DL

Tgt Ion: 75 Resp: 22940
 Ion Ratio Lower Upper
 75 100
 77 32.4 26.0 39.0
 39 41.8 29.5 44.3



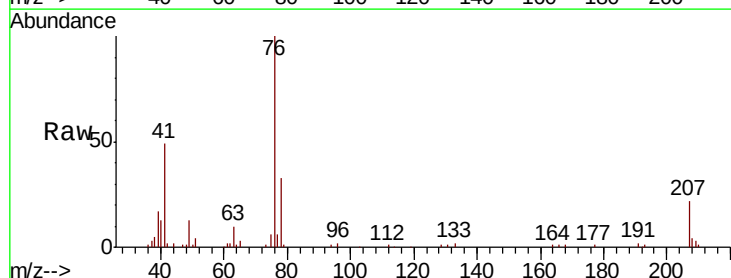
Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0



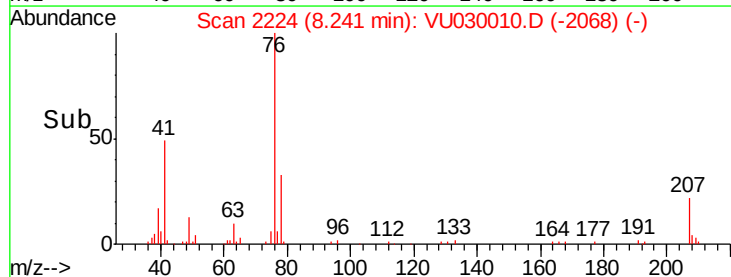
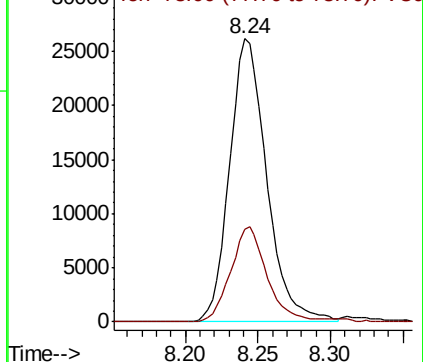
#53

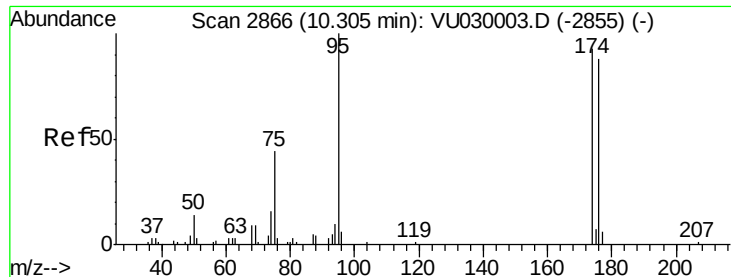
1,3-Dichloropropane
 Concen: 2.098 ug/l
 RT: 8.24 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VU030010.D
 Acq: 12 Mar 2019 16:46

Tgt Ion: 76 Resp: 46587
 Ion Ratio Lower Upper
 76 100
 78 32.6 26.4 39.6



Abundance Ion 76.00 (75.70 to 76.70): VU0
 Ion 78.00 (77.70 to 78.70): VU0





#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

38023-122017DL

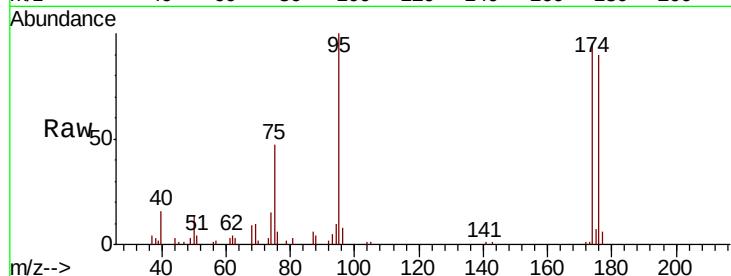
Tgt Ion: 95 Resp: 21179

Ion Ratio Lower Upper

95 100

174 93.1 78.1 117.1

176 87.6 70.8 106.2

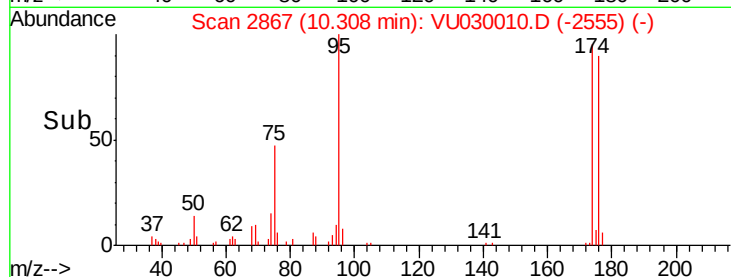


Abundance Ion 95.00 (94.70 to 95.70): VU030003.D (-2855) (-)

Ion 174.00 (173.70 to 174.70): VU030003.D (-2855) (-)

Ion 176.00 (175.70 to 176.70): VU030003.D (-2855) (-)

Time-->

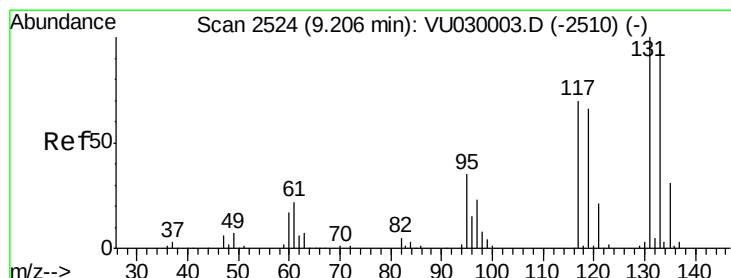


Abundance Ion 95.00 (94.70 to 95.70): VU030010.D (-2555) (-)

Ion 174.00 (173.70 to 174.70): VU030010.D (-2555) (-)

Ion 176.00 (175.70 to 176.70): VU030010.D (-2555) (-)

Time-->



#60

1,1,1,2-Tetrachloroethane

Concen: 2.531 ug/l

RT: 9.21 min Scan# 2524

Delta R.T. -0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

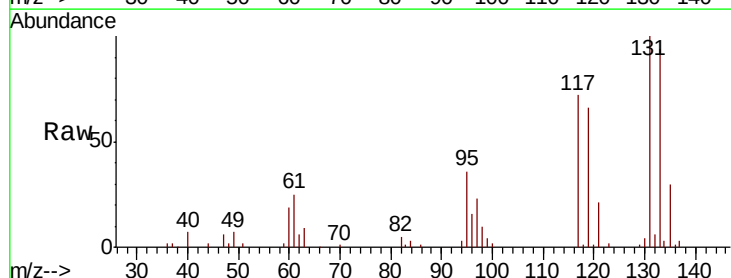
Tgt Ion: 131 Resp: 43953

Ion Ratio Lower Upper

131 100

133 94.4 75.6 113.4

119 67.8 53.3 79.9

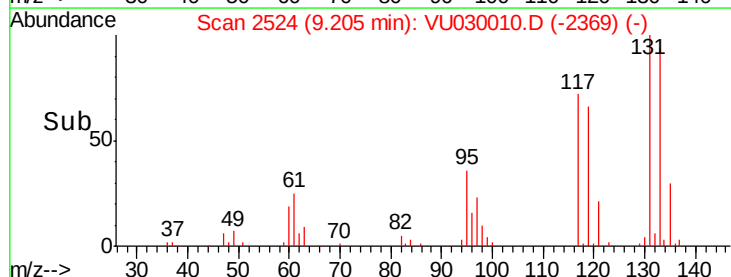


Abundance Ion 131.00 (130.70 to 131.70): VU030003.D (-2510) (-)

Ion 133.00 (132.70 to 133.70): VU030003.D (-2510) (-)

Ion 119.00 (118.70 to 119.70): VU030003.D (-2510) (-)

Time-->

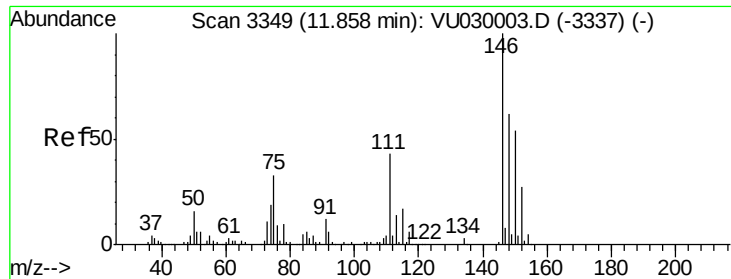


Abundance Ion 131.00 (130.70 to 131.70): VU030010.D (-2369) (-)

Ion 133.00 (132.70 to 133.70): VU030010.D (-2369) (-)

Ion 119.00 (118.70 to 119.70): VU030010.D (-2369) (-)

Time-->



#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

38023-122017DL

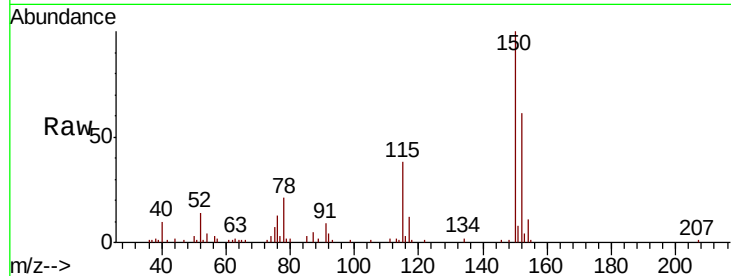
Tgt Ion:152 Resp: 24605

Ion Ratio Lower Upper

152 100

115 70.6 0.0 126.8

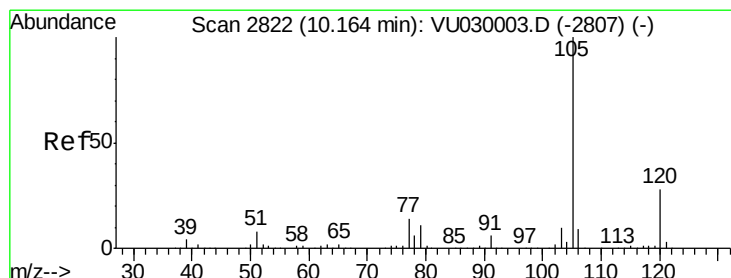
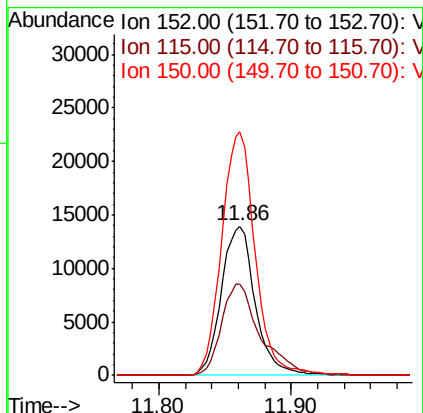
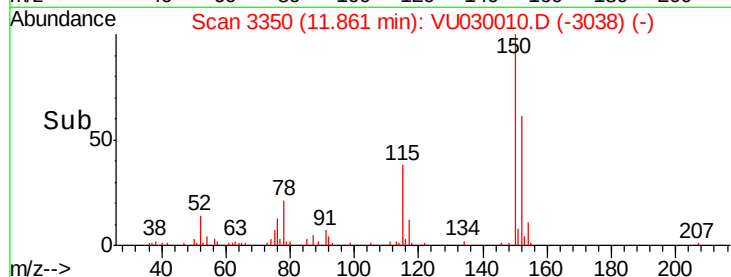
150 162.0 0.0 634.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#69

Isopropylbenzene

Concen: 1.819 ug/l

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030010.D

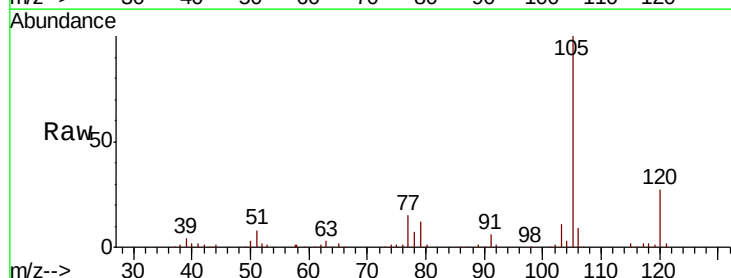
Acq: 12 Mar 2019 16:46

Tgt Ion:105 Resp: 147736

Ion Ratio Lower Upper

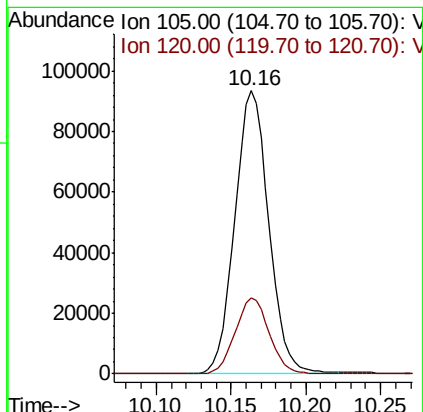
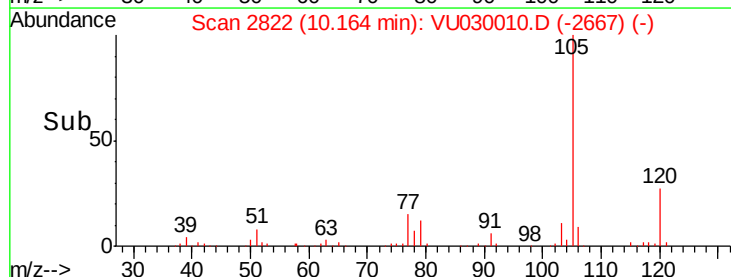
105 100

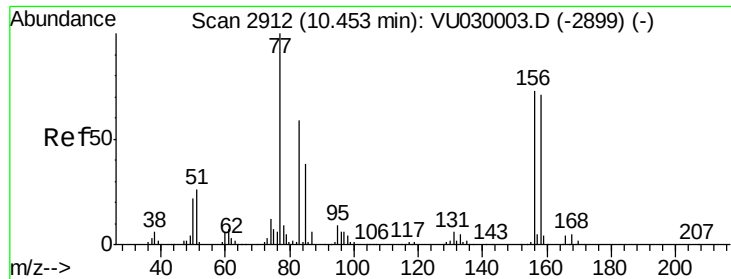
120 27.1 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

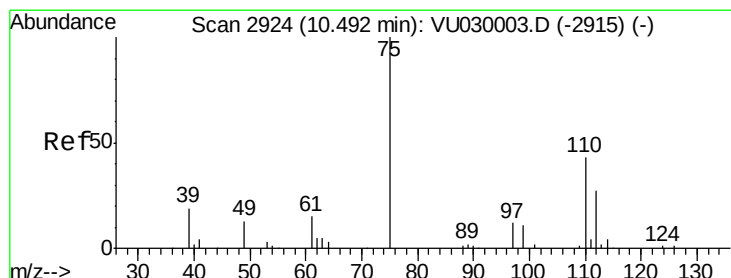
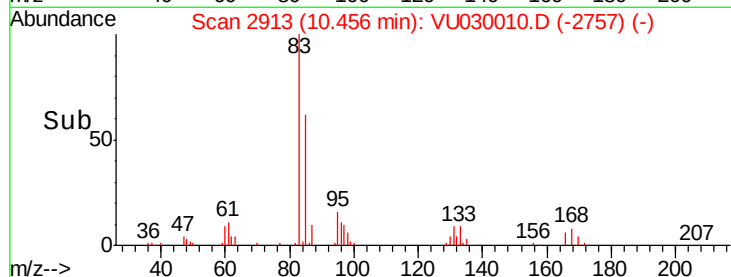
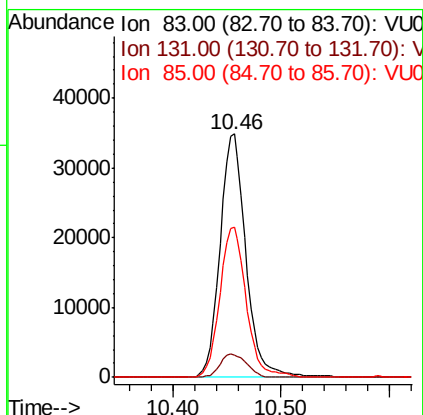
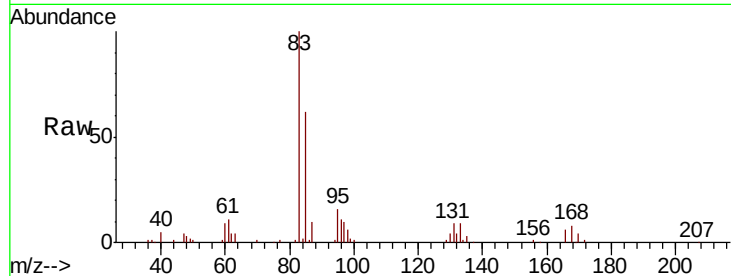




#70
 1,1,2,2-Tetrachloroethane
 Concen: 3.555 ug/l
 RT: 10.46 min Scan# 2913
 Delta R.T. 0.00 min
 Lab File: VU030010.D
 Acq: 12 Mar 2019 16:46

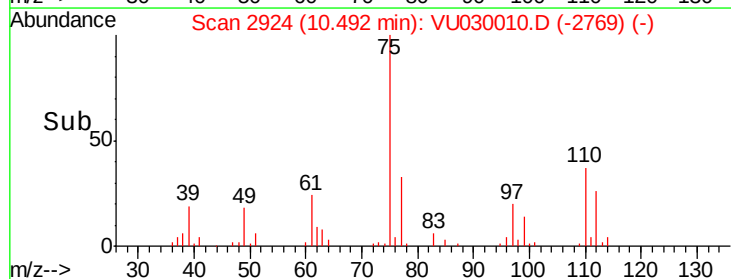
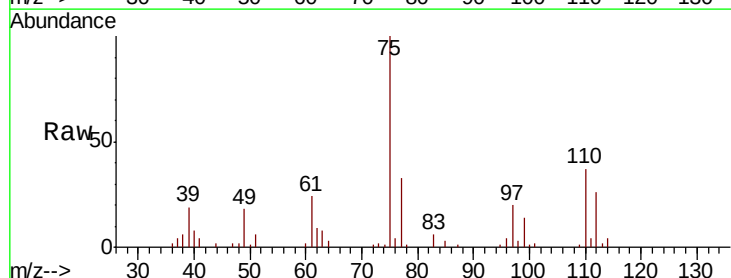
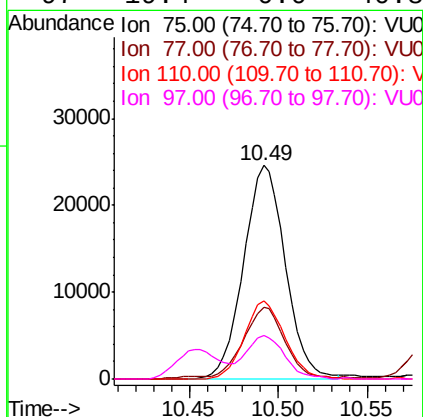
Instrument :
 MSVOA_U
 ClientSampleId :
 38023-122017DL

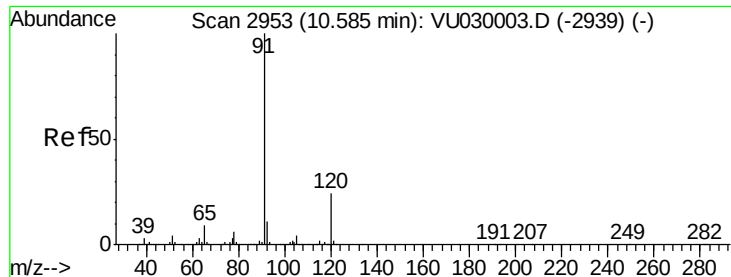
Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.8	8.4	12.6
85	62.9	52.6	78.8



#71
 1,2,3-Trichloropropane
 Concen: 3.277 ug/l
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU030010.D
 Acq: 12 Mar 2019 16:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	0.0	16.8#
110	35.3	0.0	76.8
97	19.4	0.0	40.8





#73

n-propylbenzene

Concen: 1.714 ug/l

RT: 10.58 min Scan# 2953

Delta R.T. -0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

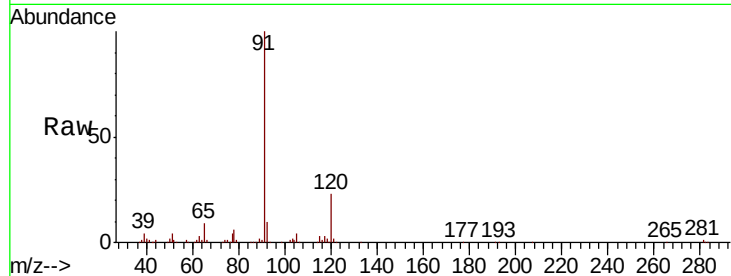
38023-122017DL

Tgt Ion:120 Resp: 39499

Ion Ratio Lower Upper

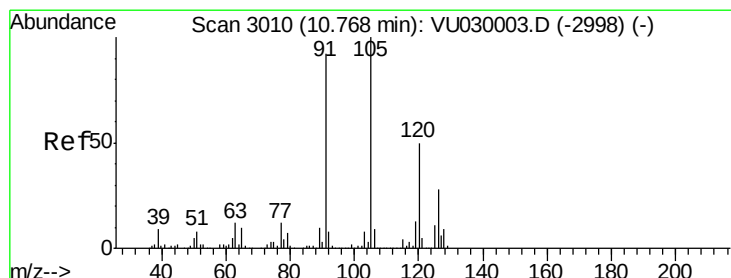
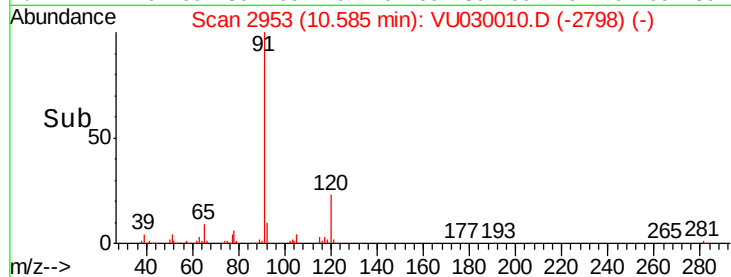
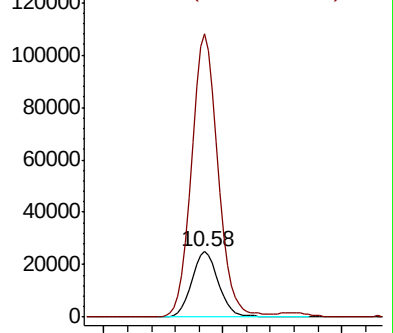
120 100

91 420.8 335.4 503.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#76

4-Chlorotoluene

Concen: 1.311 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030010.D

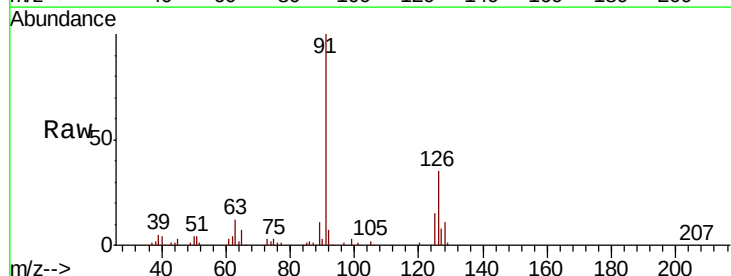
Acq: 12 Mar 2019 16:46

Tgt Ion:126 Resp: 27007

Ion Ratio Lower Upper

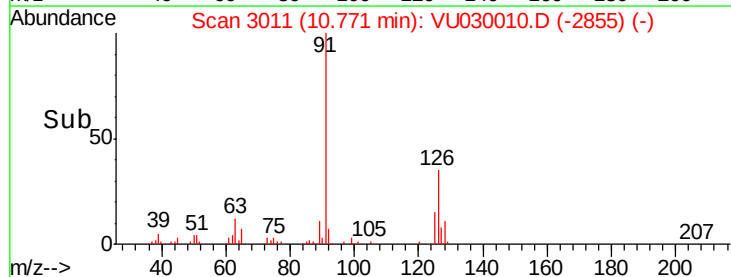
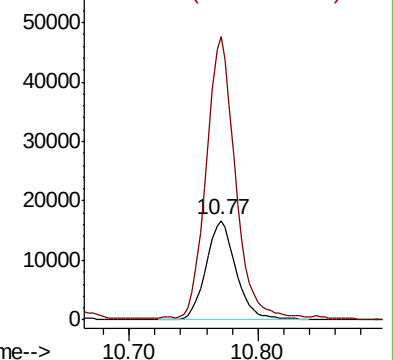
126 100

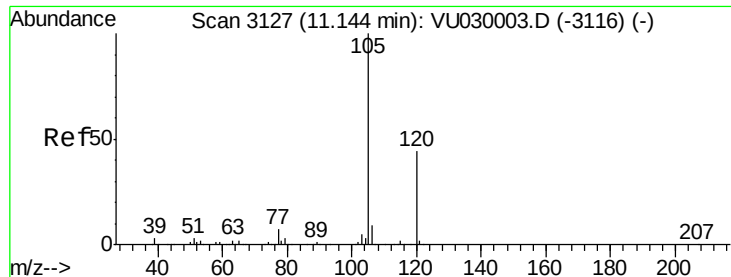
91 270.6 0.0 641.8



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#78

1,2,4-Trimethylbenzene

Concen: 2.140 ug/l

RT: 11.15 min Scan# 3128

Delta R.T. 0.00 min

Lab File: VU030010.D

Acq: 12 Mar 2019 16:46

Instrument :

MSVOA_U

ClientSampleId :

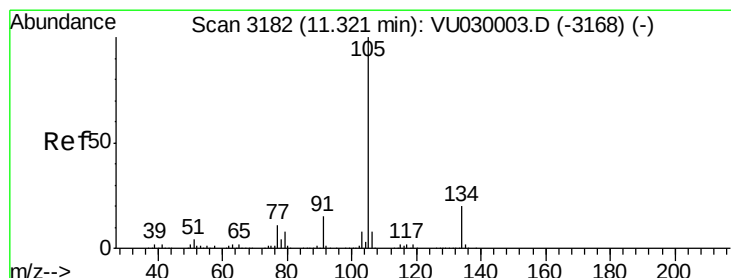
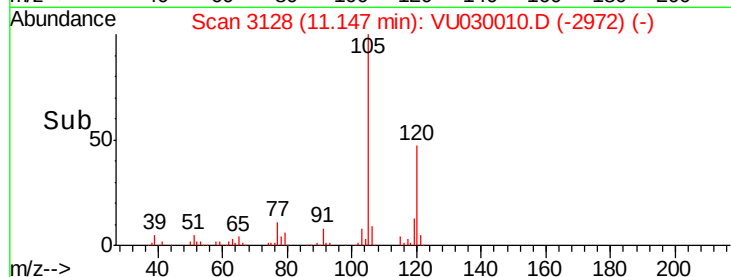
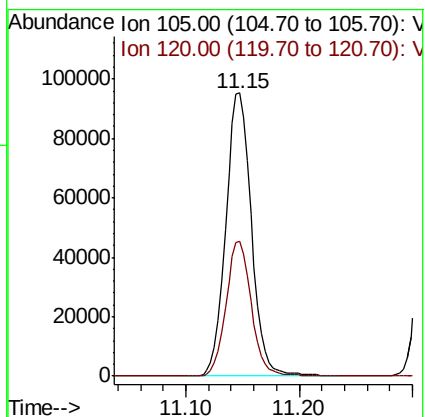
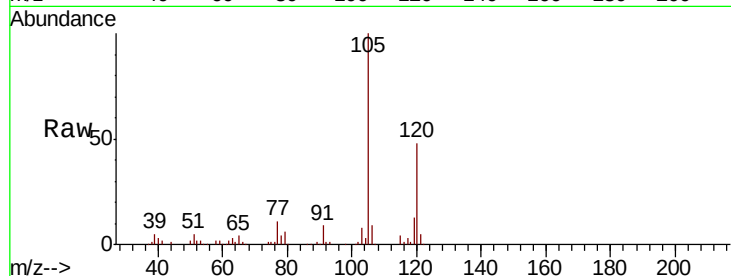
38023-122017DL

Tgt Ion:105 Resp: 150567

Ion Ratio Lower Upper

105 100

120 47.0 23.5 70.6



#79

sec-Butylbenzene

Concen: 2.661 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VU030010.D

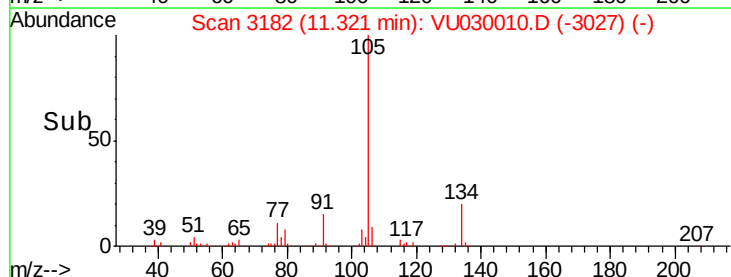
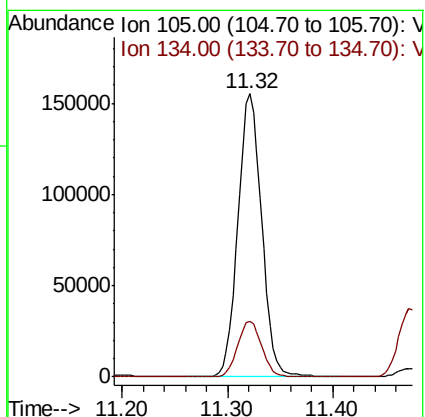
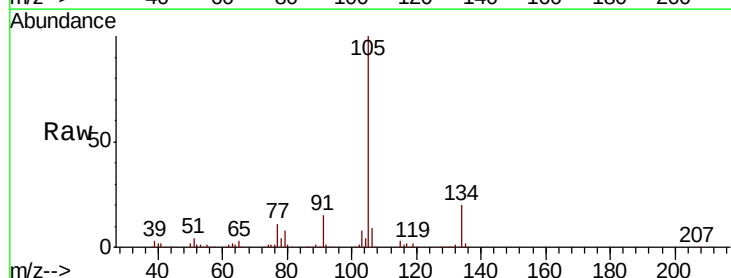
Acq: 12 Mar 2019 16:46

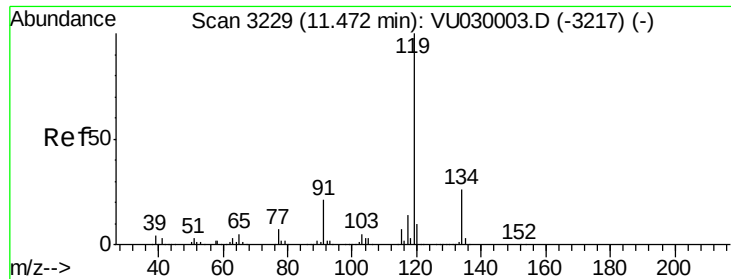
Tgt Ion:105 Resp: 241487

Ion Ratio Lower Upper

105 100

134 20.1 16.1 24.1

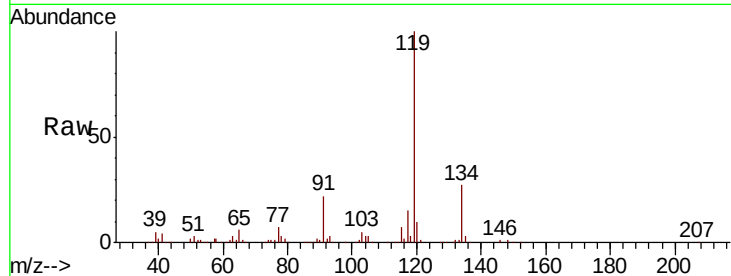




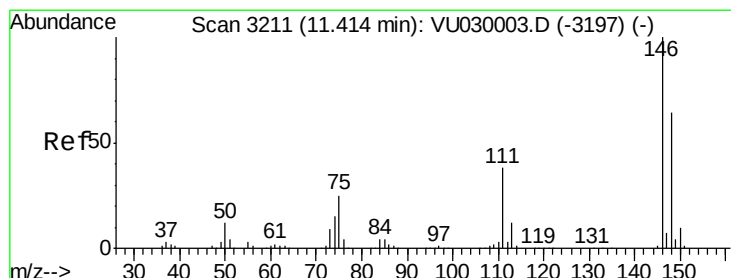
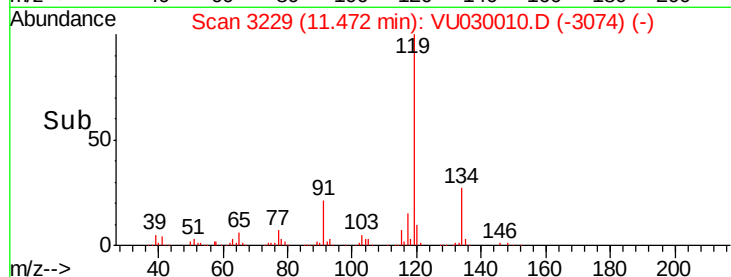
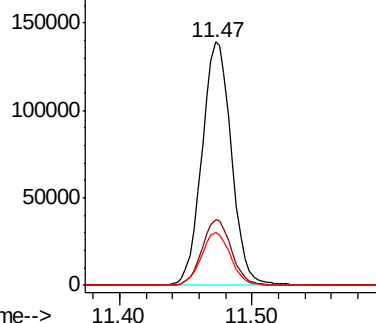
#81
p-Isopropyltoluene
Concen: 2.825 ug/l
RT: 11.47 min Scan# 3229
Delta R.T. -0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

Instrument :
MSVOA_U
ClientSampleId :
38023-122017DL

Tgt Ion:119 Resp: 214978
Ion Ratio Lower Upper
119 100
134 27.0 21.2 31.8
91 21.6 17.0 25.6

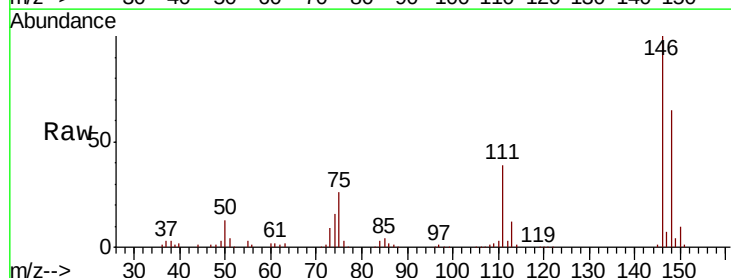


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

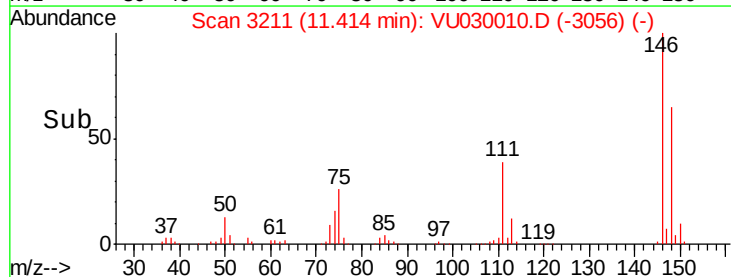
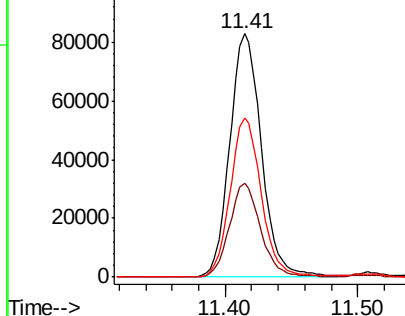


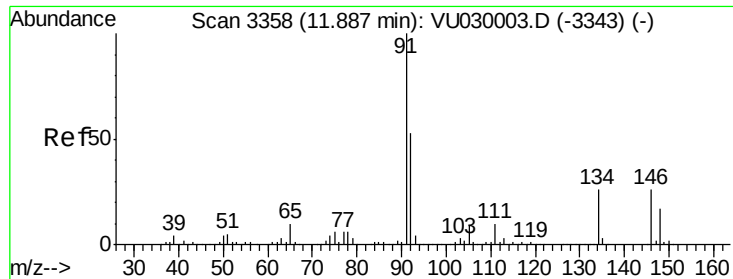
#82
1,3-Dichlorobenzene
Concen: 3.210 ug/l
RT: 11.41 min Scan# 3211
Delta R.T. -0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

Tgt Ion:146 Resp: 138108
Ion Ratio Lower Upper
146 100
111 38.1 30.3 45.5
148 64.1 51.1 76.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

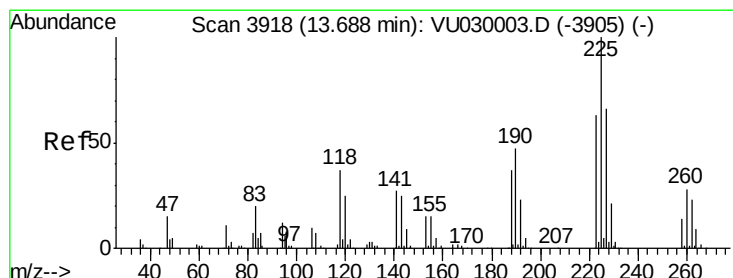
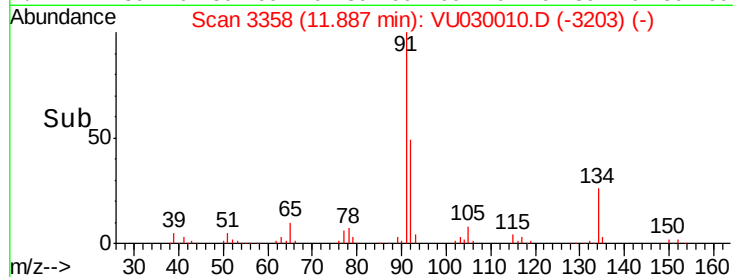
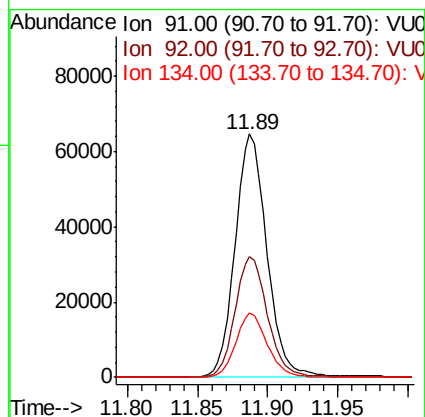
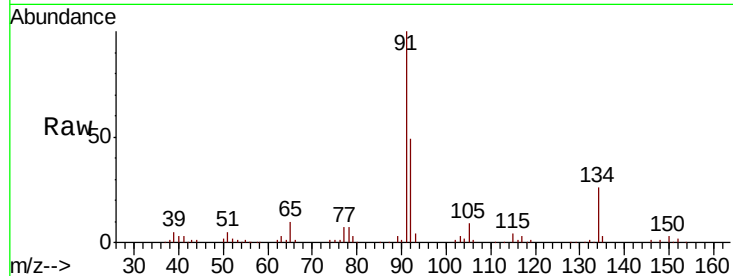




#84
n-Butylbenzene
Concen: 1.441 ug/l
RT: 11.89 min Scan# 3358
Delta R.T. -0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

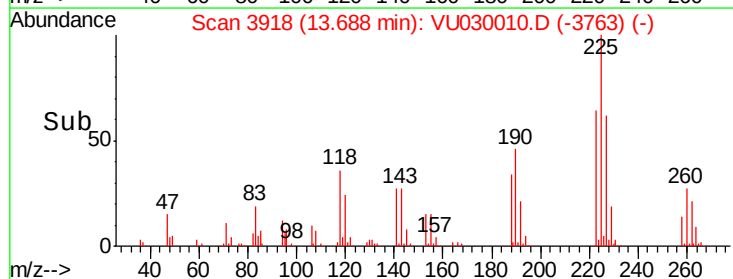
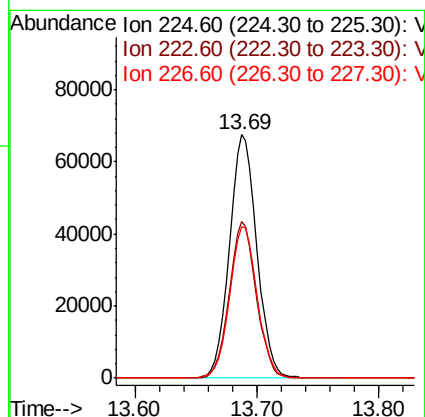
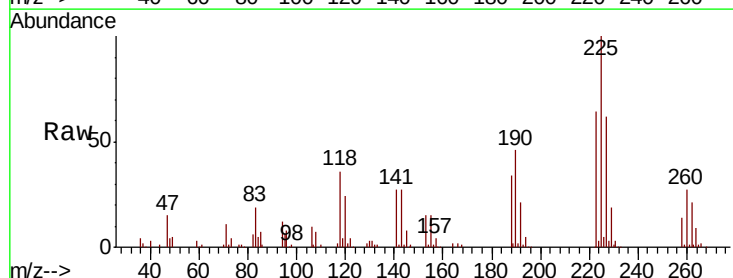
Instrument :
MSVOA_U
ClientSampleId :
38023-122017DL

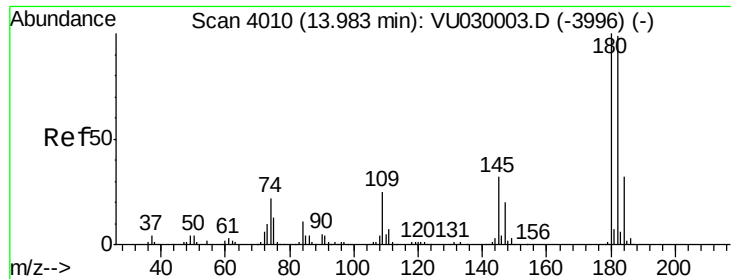
Tgt Ion: 91 Resp: 102432
Ion Ratio Lower Upper
91 100
92 50.4 42.4 63.6
134 26.1 21.4 32.0



#88
Hexachlorobutadiene
Concen: 6.775 ug/l
RT: 13.69 min Scan# 3918
Delta R.T. -0.00 min
Lab File: VU030010.D
Acq: 12 Mar 2019 16:46

Tgt Ion: 225 Resp: 106109
Ion Ratio Lower Upper
225 100
223 63.2 50.7 76.1
227 62.5 52.6 78.8

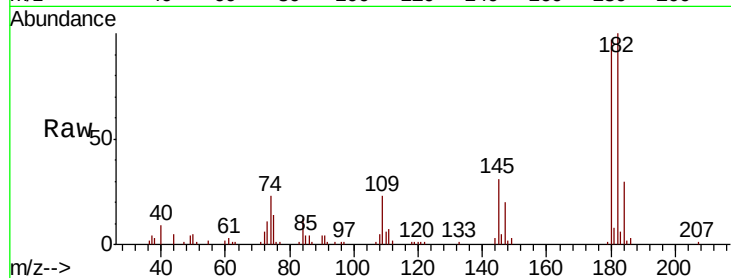




#90
 1,2,3-Trichlorobenzene
 Concen: 1.266 ug/l
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU030010.D
 Acq: 12 Mar 2019 16:46

Instrument :
 MSVOA_U
 ClientSampleId :
 38023-122017DL

Tgt Ion	Resp	Lower	Upper
180	100		
182	98.9	77.6	116.4
145	31.9	24.7	37.1



Abundance

Ion 179.70 (179.40 to 180.40): V

Ion 181.70 (181.40 to 182.40): V

Ion 144.80 (144.50 to 145.50): V

