

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091120\
 Data File : VU040105.D
 Acq On : 11 Sep 2020 15:27
 Operator : SY/MD
 Sample : L3938-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Quant Time: Sep 12 05:04:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U091120DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Sep 11 13:27:06 2020
 Response via : Initial Calibration

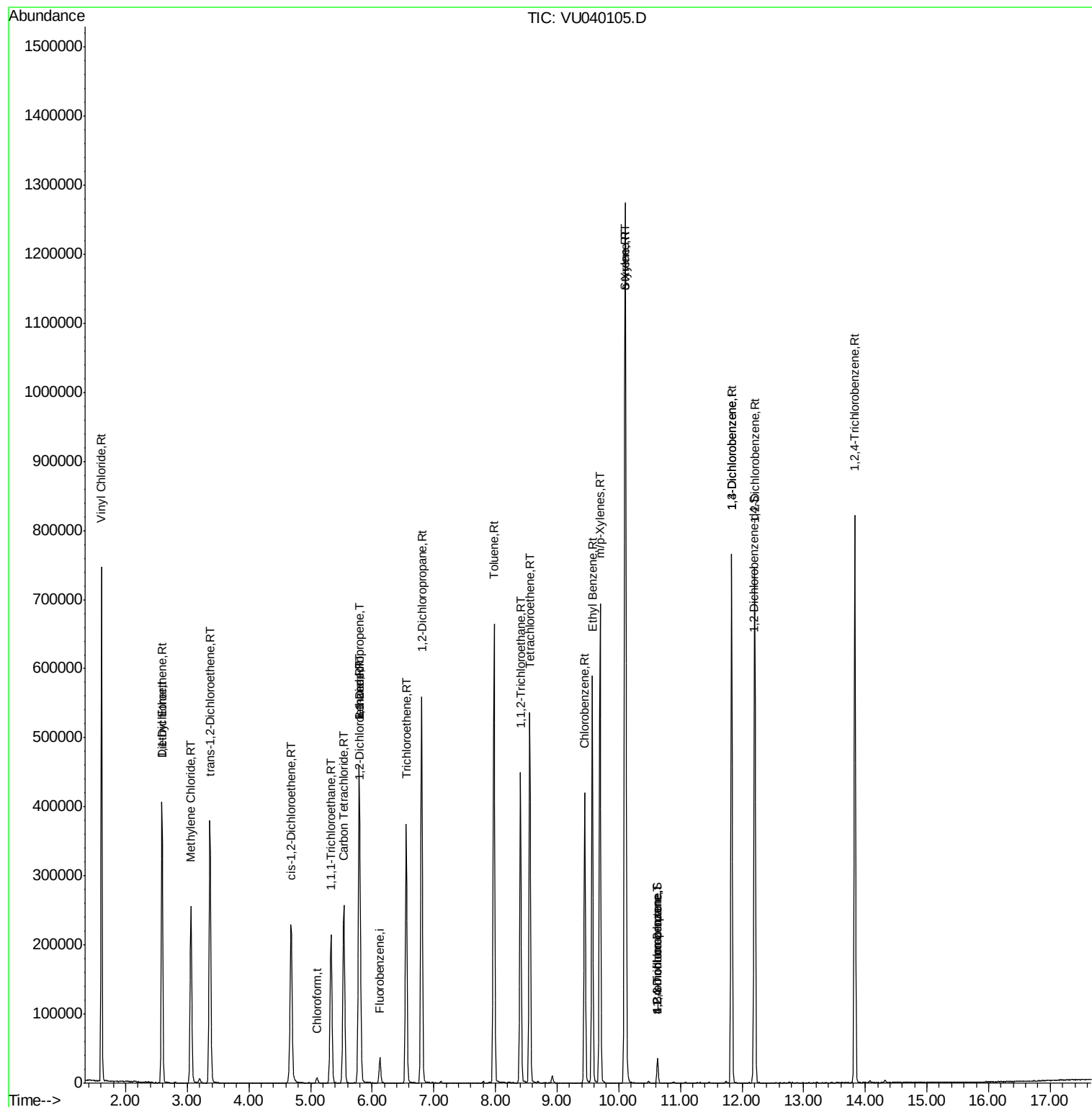
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.13	96	30165	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	11508	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	11250	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
Target Compounds						
					Ovalue	
4) Vinyl Chloride	1.61	62	471555	39.119	ug/l	99
9) 1,1-Dichloroethene	2.59	96	125722	21.608	ug/l	98
15) Methylene Chloride	3.06	84	112743	11.531	ug/l	98
16) trans-1,2-Dichloroethene	3.37	96	147120	23.525	ug/l	97
22) cis-1,2-Dichloroethene	4.68	96	106284	13.482	ug/l	85
23) Diethyl Ether	2.59	59	8491	22.606	ug/l #	12
27) Chloroform	5.10	83	6351	0.378	ug/l	98
28) 1,1,1-Trichloroethane	5.33	97	150584	10.668	ug/l	98
29) 1,1-Dichloropropene	5.79	75	7413	12.661	ug/l #	1
30) Carbon Tetrachloride	5.54	117	166548	14.364	ug/l	98
35) Benzene	5.79	78	371591	12.331	ug/l	98
36) 1,2-Dichloroethane	5.81	62	95253	7.865	ug/l	99
37) Trichloroethene	6.55	130	114017	14.730	ug/l	98
38) 1,2-Dichloropropane	6.80	63	191873	20.572	ug/l	97
46) t-1,4-Dichloro-2-butene	10.63	75	6927	1.892	ug/l #	18
49) Toluene	7.98	92	259691	13.588	ug/l	99
52) 1,1,2-Trichloroethane	8.40	97	131312	17.722	ug/l	98
58) Tetrachloroethene	8.56	164	100793	17.517	ug/l	99
59) Chlorobenzene	9.45	112	204449	9.097	ug/l	99
63) Ethyl Benzene	9.57	91	392188	10.510	ug/l	99
64) m/p-Xylenes	9.70	106	179438	25.317	ug/l	98
65) o-Xylene	10.10	106	226882	16.683	ug/l	99
66) Styrene	10.11	104	287019	11.824	ug/l	94
71) 1,2,3-Trichloropropane	10.63	75	6927	0.939	ug/l #	35
82) 1,3-Dichlorobenzene	11.83	146	275849	14.526	ug/l	99
83) 1,4-Dichlorobenzene	11.83	146	275849	14.858	ug/l	100
85) 1,2-Dichlorobenzene	12.21	146	262013	14.806	ug/l	100
87) 1,2,4-Trichlorobenzene	13.83	180	207467	20.399	ug/l	99

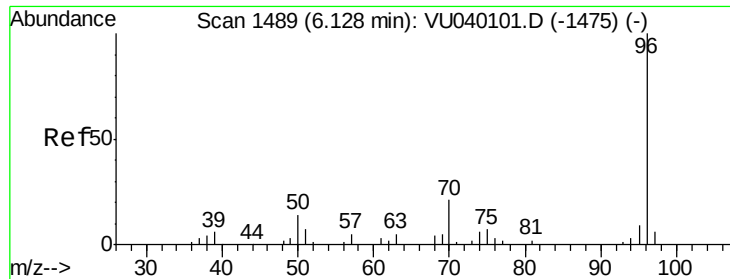
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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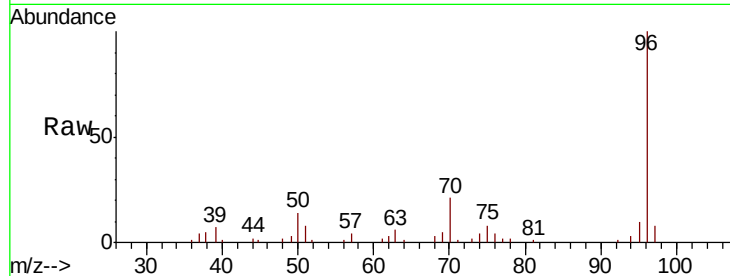




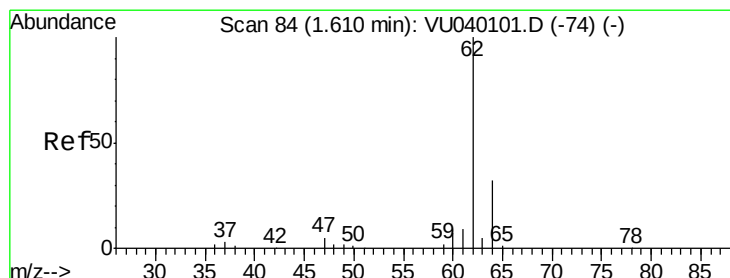
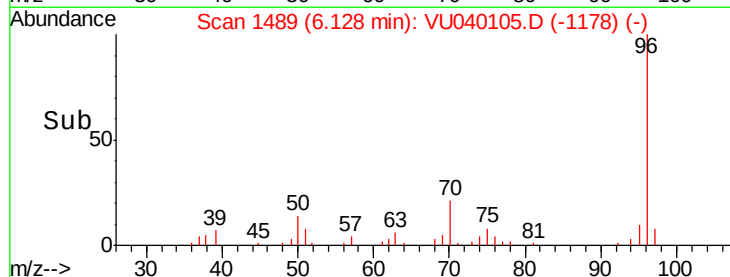
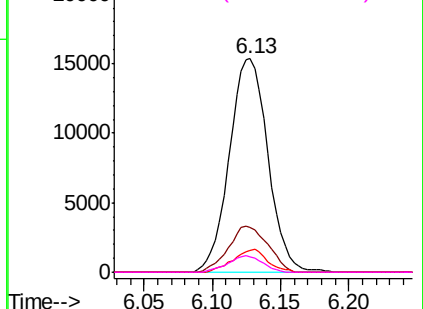
#1
 Fluorobenzene
 Concen: 1.000 ug/l
 RT: 6.13 min Scan# 1489
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Tot Ion:	96	Resp:	30165
Ion	Ratio	Lower	Upper
96	100		
70	22.0	17.1	25.7
95	9.5	7.6	11.4
97	0.0	0.0	0.0

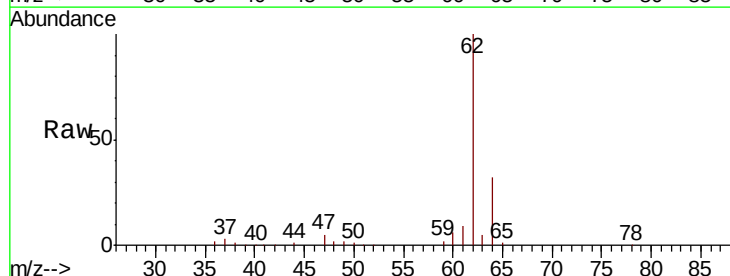


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 70.00 (69.70 to 70.70): VU0
 Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0

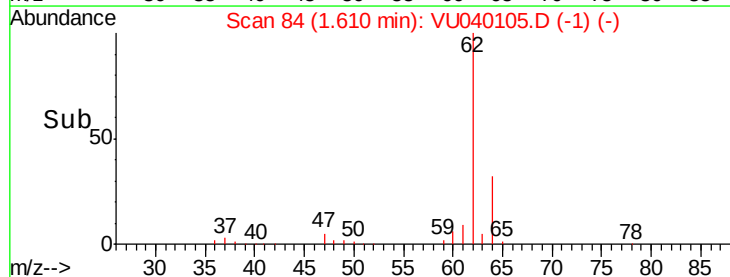
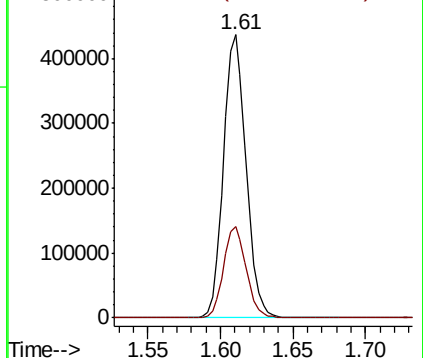


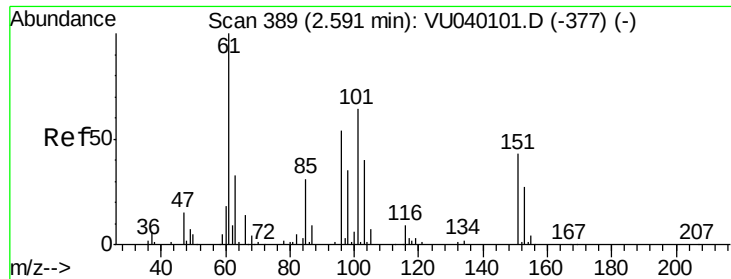
#4
 Vinyl Chloride
 Concen: 39.119 ug/l
 RT: 1.61 min Scan# 84
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion:	62	Resp:	471555
Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 21.608 ug/l

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

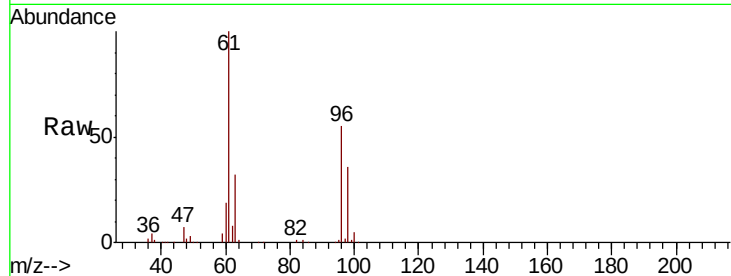
Tot Ion: 96 Resp: 125722

Ion Ratio Lower Upper

96 100

61 183.0 0.0 557.1

98 65.4 0.0 125.6

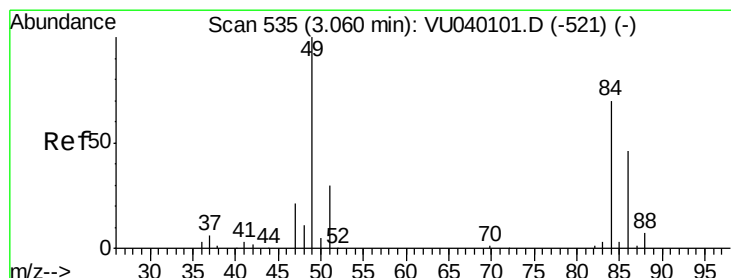
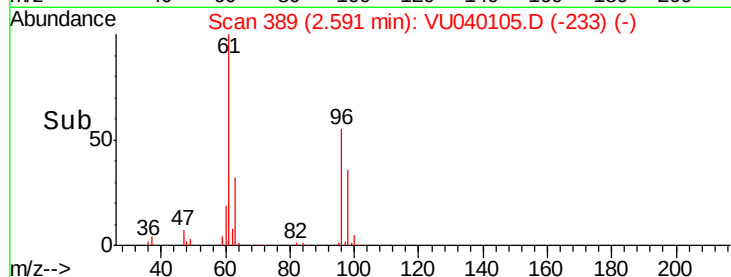
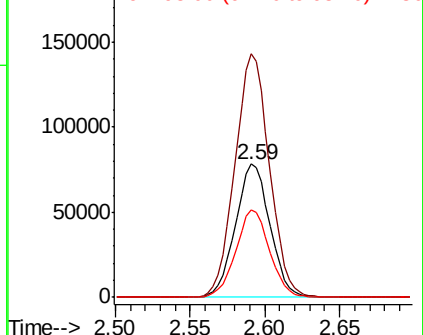


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#15

Methylene Chloride

Concen: 11.531 ug/l

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Tgt Ion: 84 Resp: 112743

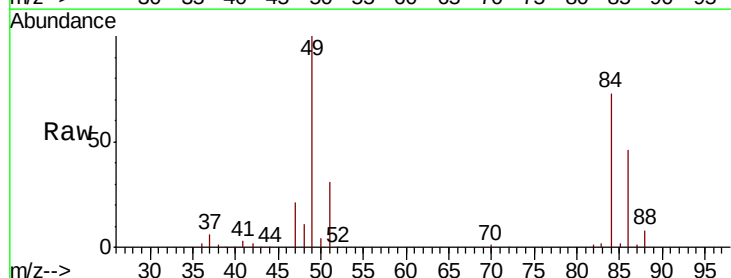
Ion Ratio Lower Upper

84 100

49 137.9 114.3 171.5

51 42.7 0.0 84.6

86 63.2 50.6 76.0



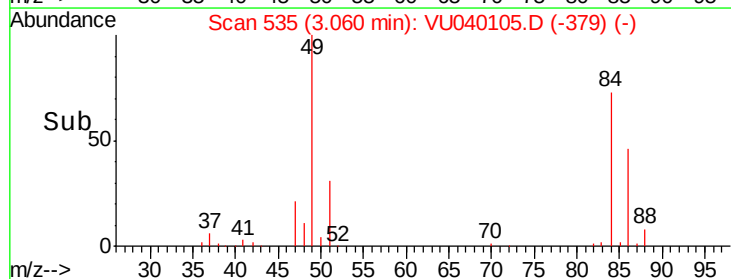
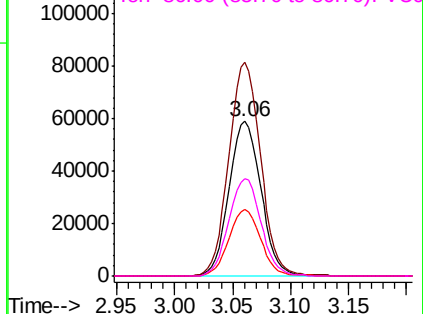
Abundance

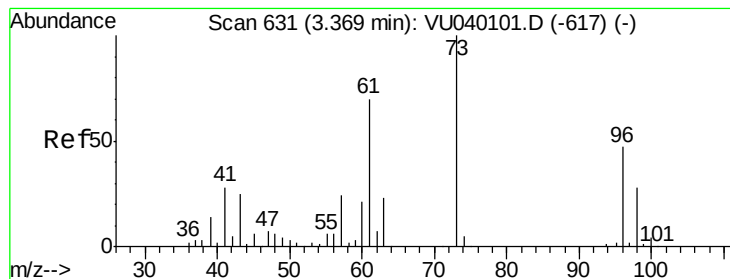
Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0





#16

trans-1,2-Dichloroethene

Concen: 23.525 ug/l

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

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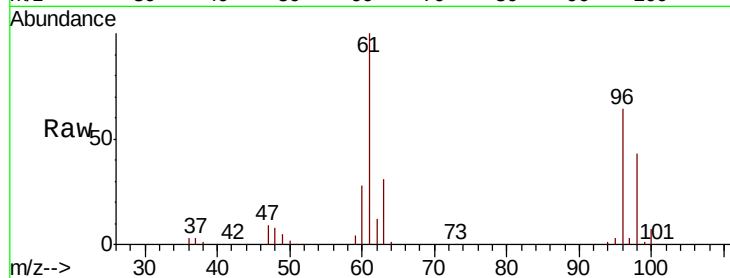
Tot Ion: 96 Resp: 147120

Ion Ratio Lower Upper

96 100

61 156.1 121.4 182.0

98 67.2 51.9 77.9

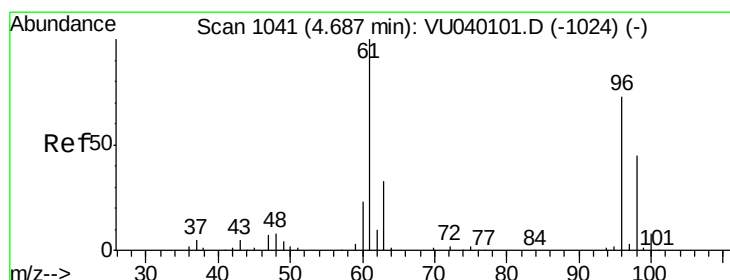
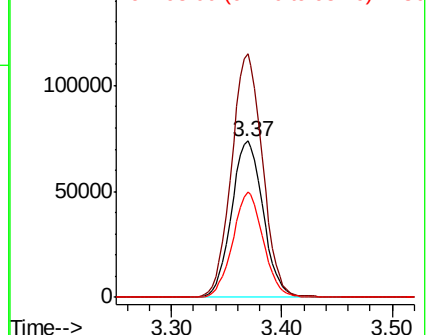
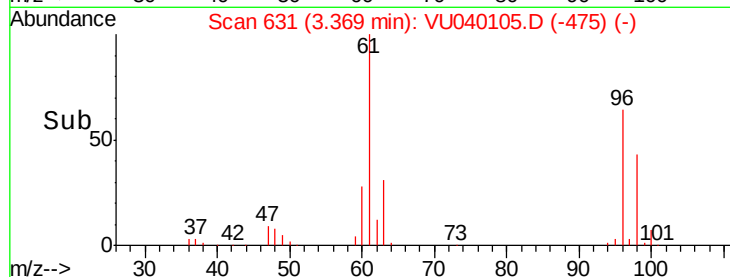


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#22

cis-1,2-Dichloroethene

Concen: 13.482 ug/l

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

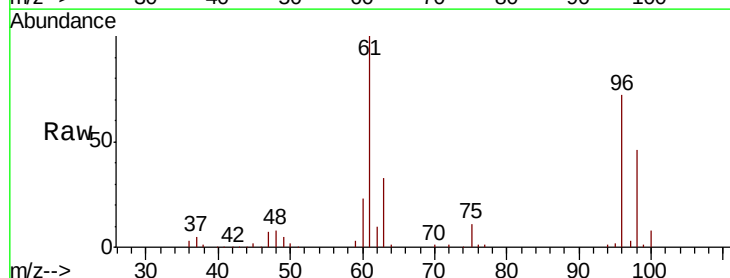
Tgt Ion: 96 Resp: 106284

Ion Ratio Lower Upper

96 100

61 139.7 0.0 420.0

98 63.6 31.8 95.3

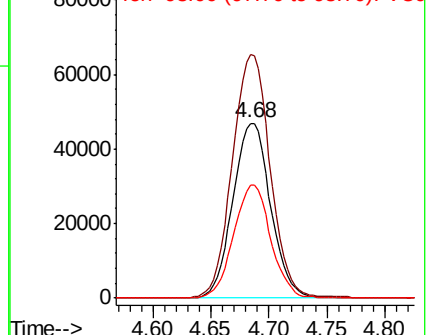
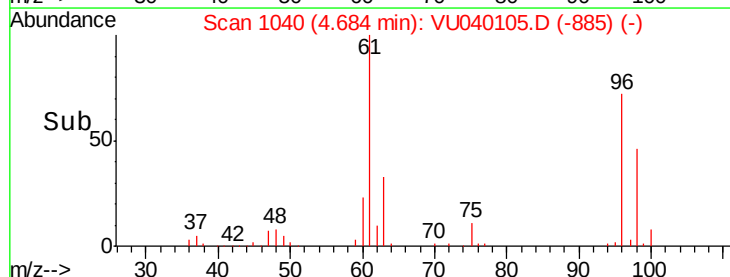


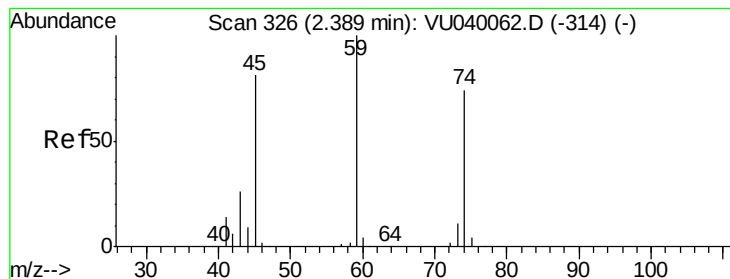
Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#23

Diethyl Ether

Concen: 22.606 ug/l

RT: 2.59 min Scan# 389

Delta R.T. 0.20 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

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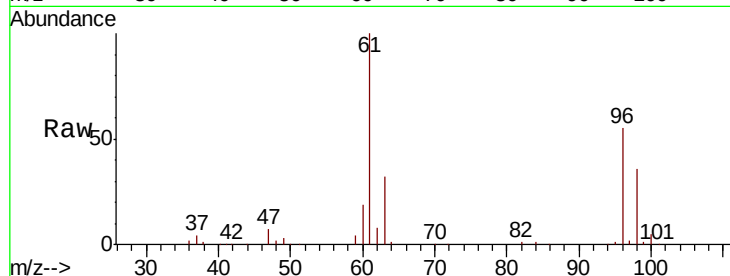
Tot Ion: 59 Resp: 8491

Ion Ratio Lower Upper

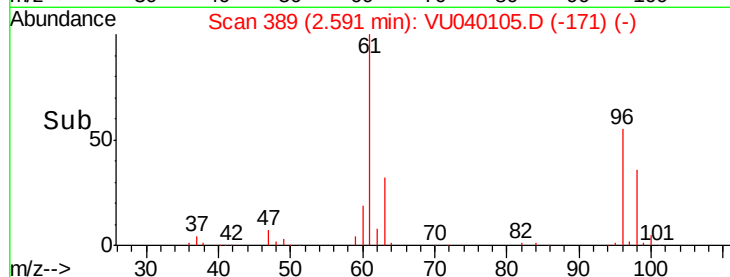
59 100

45 0.7 62.4 93.6#

74 0.0 57.7 86.5#

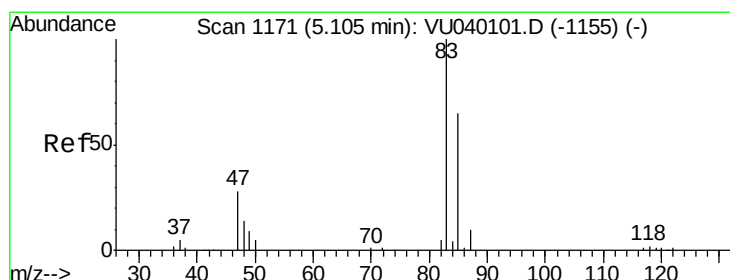
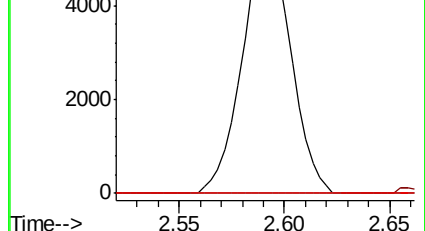


Abundance Ion 59.00 (58.70 to 59.70): VU040105.D (-171) (-)



Ion 45.00 (44.70 to 45.70): VU040105.D (-171) (-)

Ion 74.00 (73.70 to 74.70): VU040105.D (-171) (-)



#27

Chloroform

Concen: 0.378 ug/l

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU040105.D

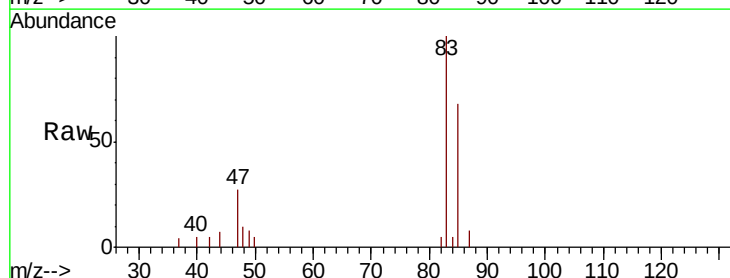
Acq: 11 Sep 2020 15:27

Tgt Ion: 83 Resp: 6351

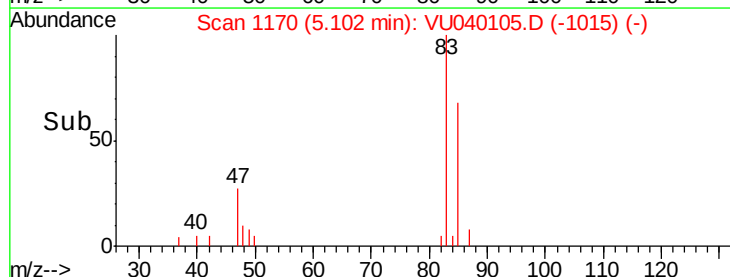
Ion Ratio Lower Upper

83 100

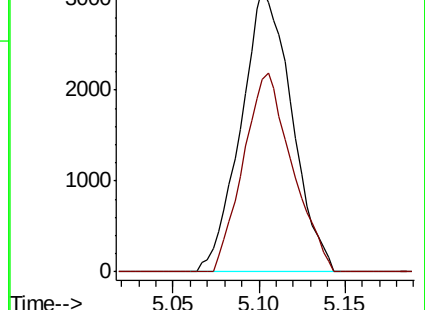
85 68.0 0.0 132.4

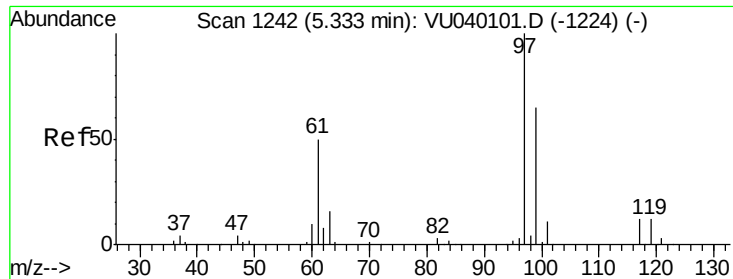


Abundance Ion 83.00 (82.70 to 83.70): VU040105.D (-1015) (-)



Ion 85.00 (84.70 to 85.70): VU040105.D (-1015) (-)

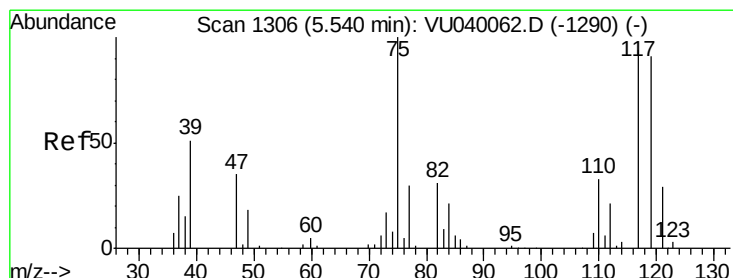
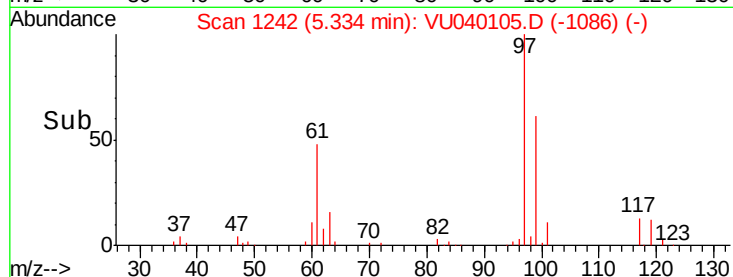
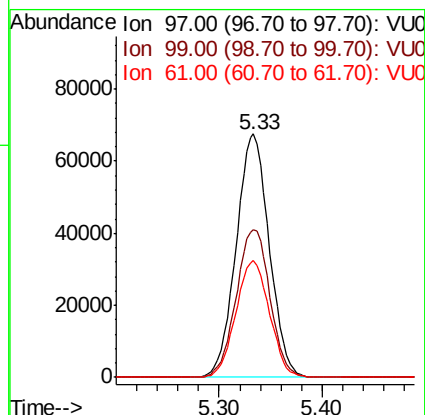
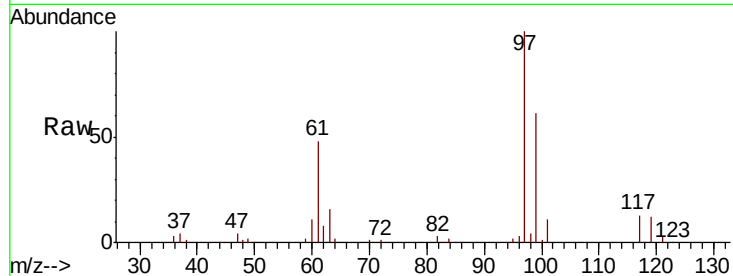




#28
 1,1,1-Trichloroethane
 Concen: 10.668 ug/l
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

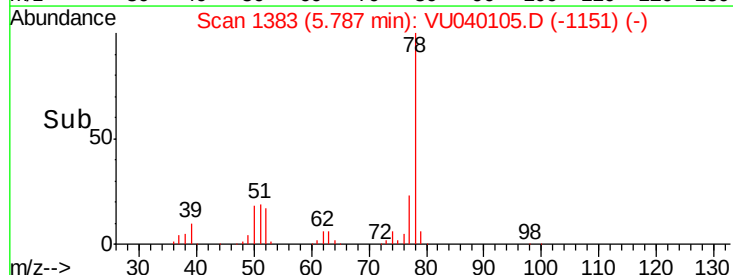
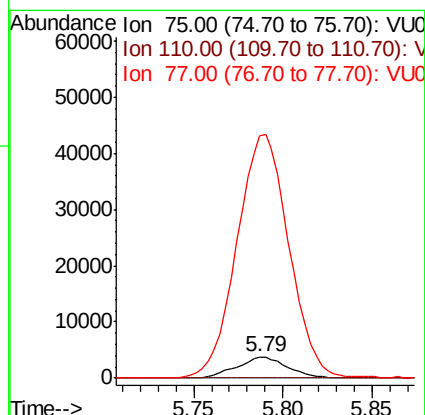
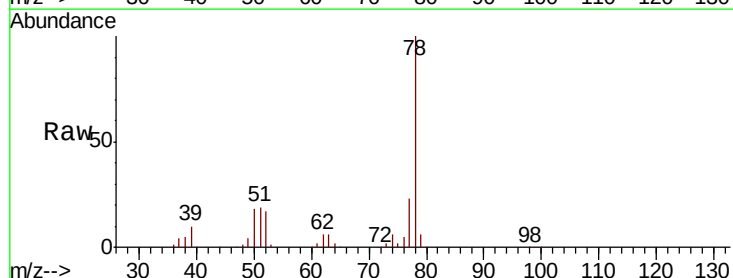
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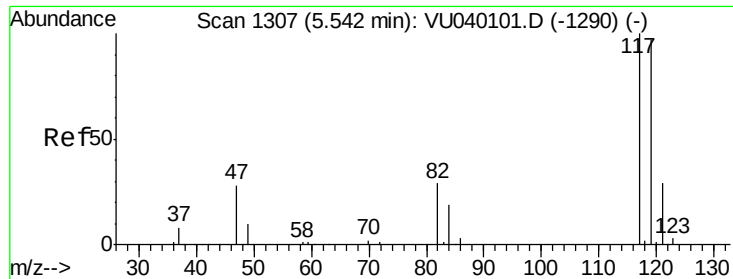
Tot Ion: 97 Resp: 150584
 Ion Ratio Lower Upper
 97 100
 99 62.2 31.8 95.4
 61 48.8 25.1 75.2



#29
 1,1-Dichloropropene
 Concen: 12.661 ug/l
 RT: 5.79 min Scan# 1383
 Delta R.T. 0.25 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion: 75 Resp: 7413
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.2 48.6#
 77 1187.1 25.3 37.9#

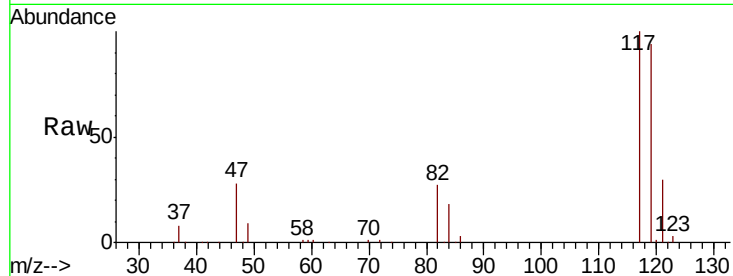




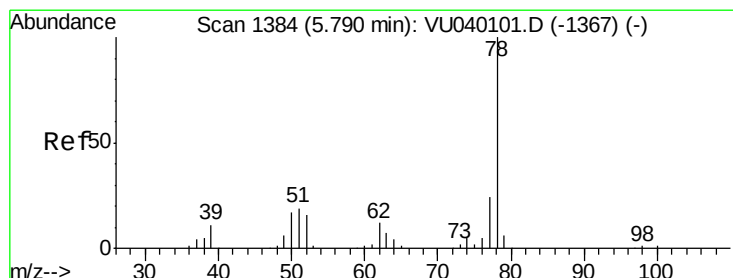
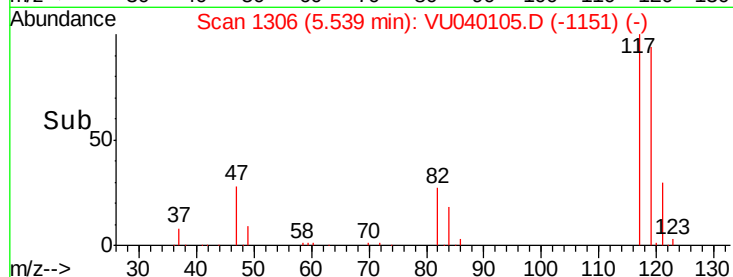
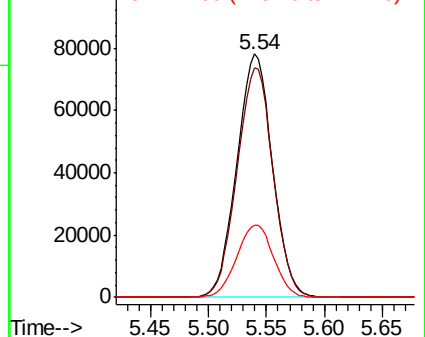
#30
Carbon Tetrachloride
Concen: 14.364 ug/l
RT: 5.54 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Instrument :
MSVOA_U
ClientSampleId :
38022-103019

Tot Ion:117 Resp: 166548
Ion Ratio Lower Upper
117 100
119 94.1 77.0 115.4
121 29.7 24.2 36.4

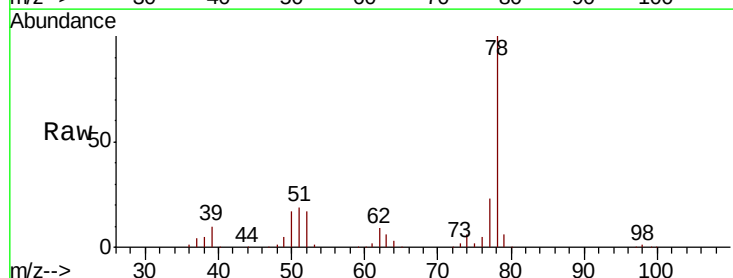


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

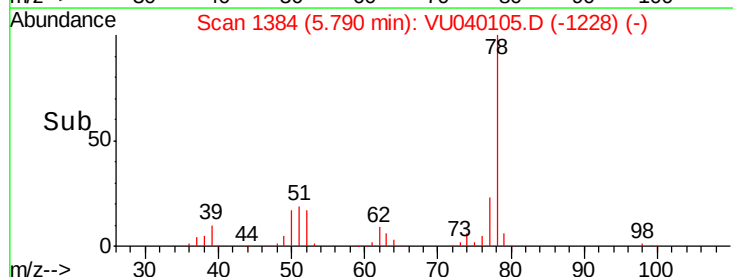
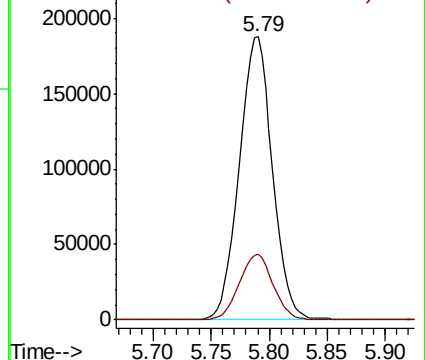


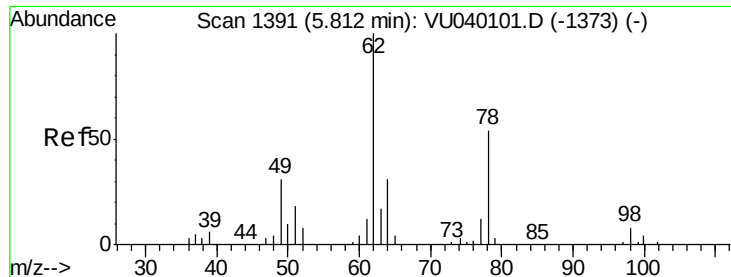
#35
Benzene
Concen: 12.331 ug/l
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Tgt Ion: 78 Resp: 371591
Ion Ratio Lower Upper
78 100
77 23.1 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU0
Ion 77.00 (76.70 to 77.70): VU0

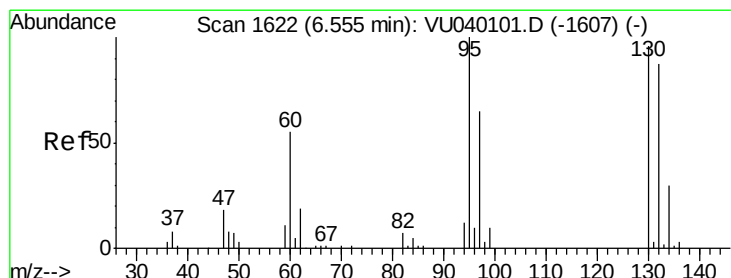
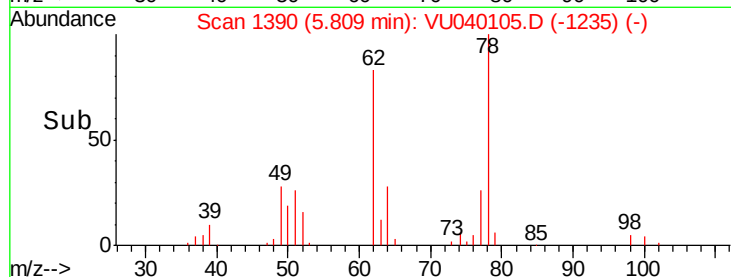
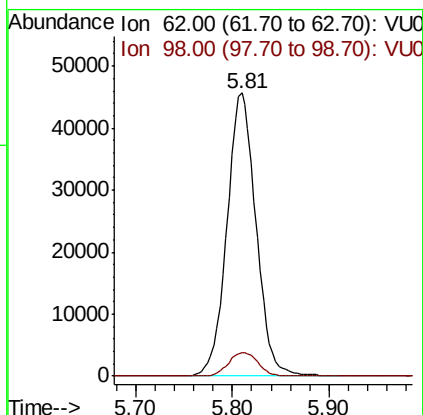
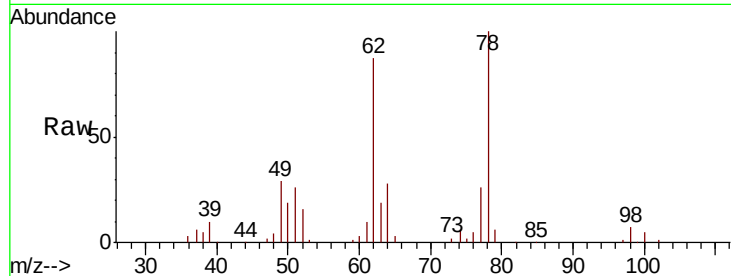




#36
 1,2-Dichloroethane
 Concen: 7.865 ug/l
 RT: 5.81 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

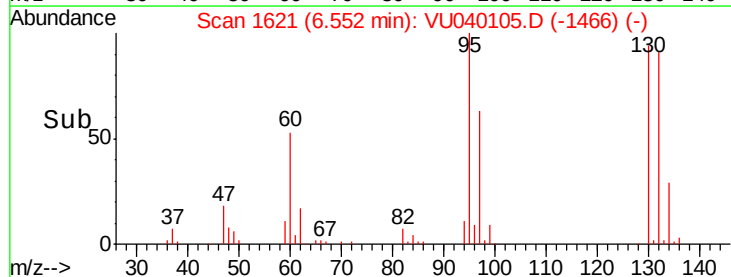
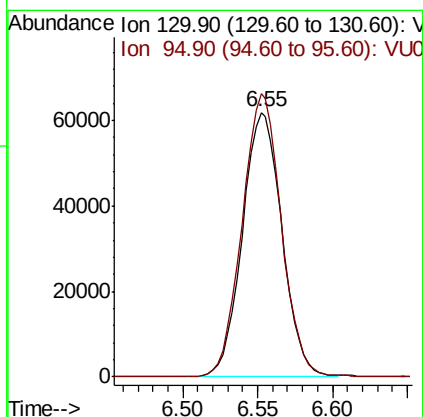
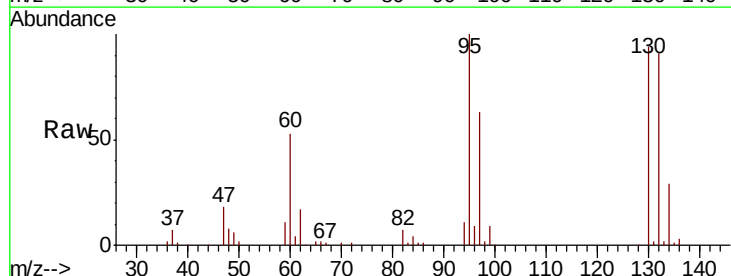
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

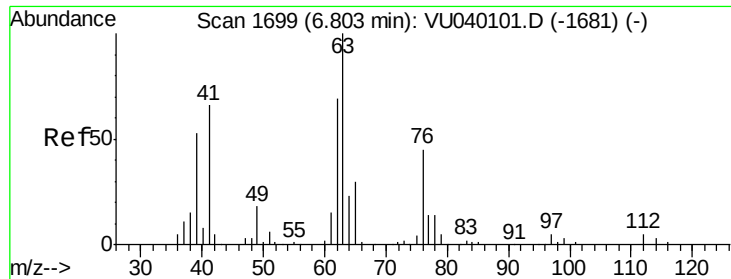
Tot Ion: 62 Resp: 95253
 Ion Ratio Lower Upper
 62 100
 98 8.4 6.5 9.7



#37
 Trichloroethene
 Concen: 14.730 ug/l
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion:130 Resp: 114017
 Ion Ratio Lower Upper
 130 100
 95 106.9 84.2 126.2

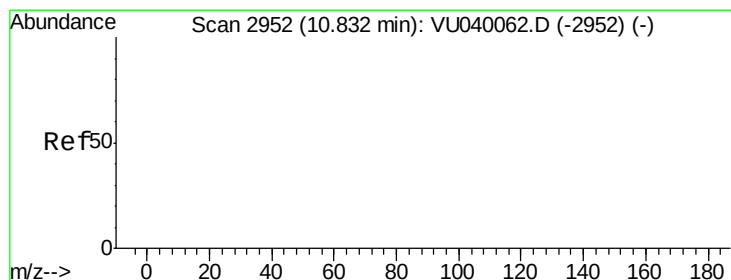
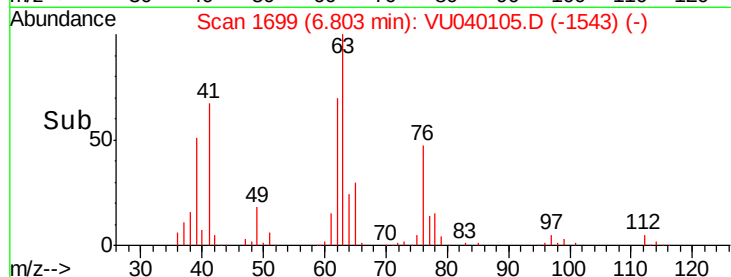
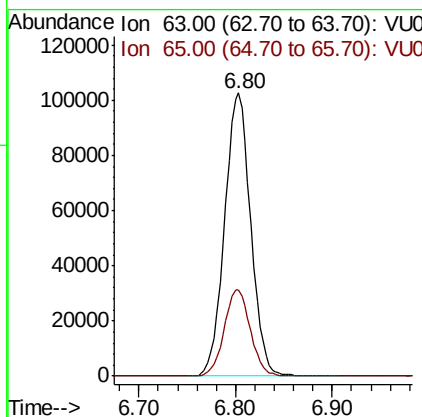
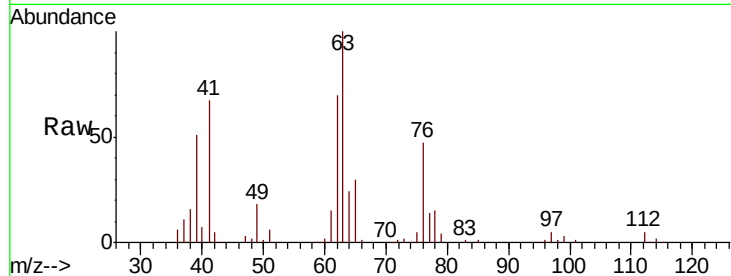




#38
 1,2-Dichloropropane
 Concen: 20.572 ug/l
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

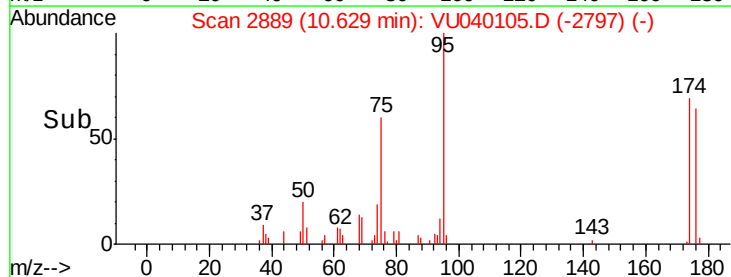
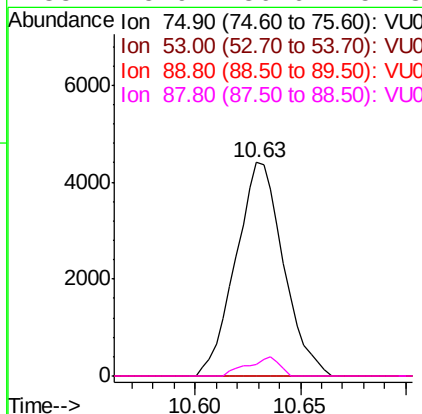
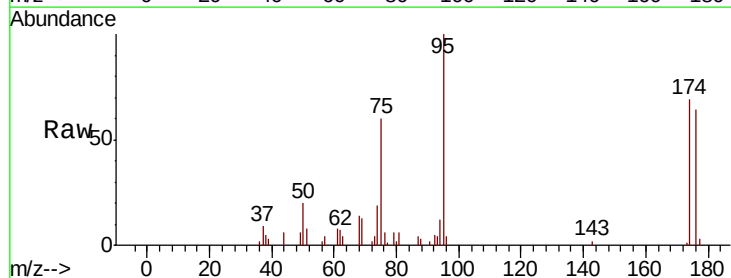
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

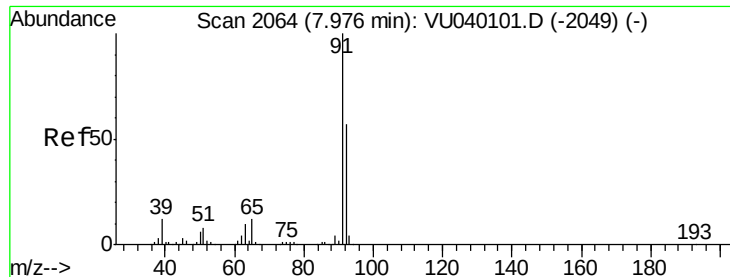
Tot Ion: 63 Resp: 191873
 Ion Ratio Lower Upper
 63 100
 65 30.3 23.0 34.6



#46
 t-1,4-Dichloro-2-butene
 Concen: 1.892 ug/l
 RT: 10.63 min Scan# 2889
 Delta R.T. -0.20 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion: 75 Resp: 6927
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.0 112.6#
 89 0.0 41.6 62.4#
 88 5.9 36.6 54.8#





#49

Toluene

Concen: 13.588 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

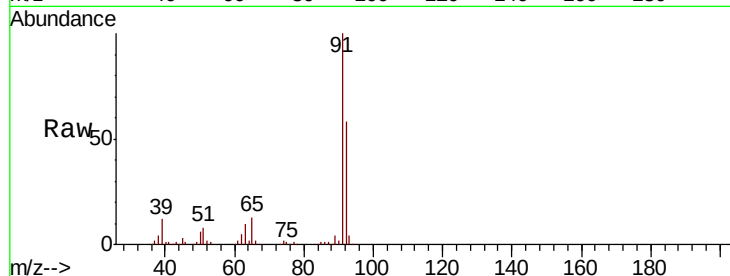
38022-103019

Tot Ion: 92 Resp: 259691

Ion Ratio Lower Upper

92 100

91 172.4 138.6 207.8



Abundance Ion 92.00 (91.70 to 92.70): VU040105.D (-1908) (-)

Ion 91.00 (90.70 to 91.70): VU040105.D (-1908) (-)

300000

250000

200000

150000

100000

50000

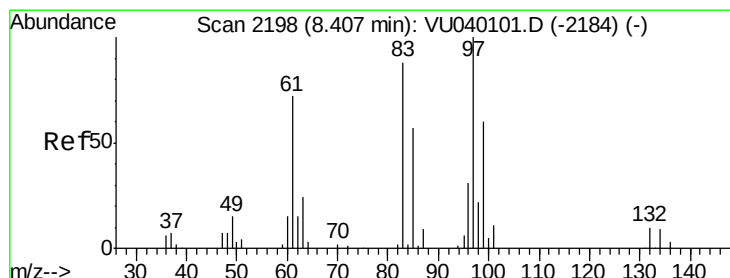
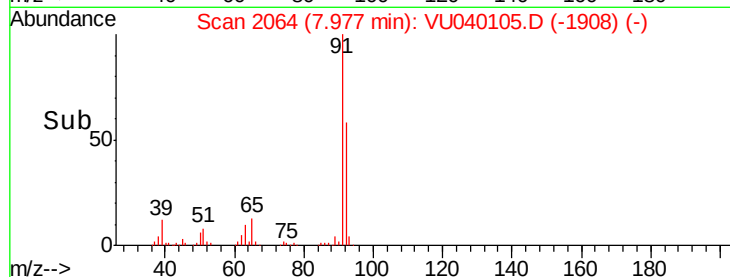
0

7.90

8.00

8.10

Time-->



#52

1,1,2-Trichloroethane

Concen: 17.722 ug/l

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Tgt Ion: 97 Resp: 131312

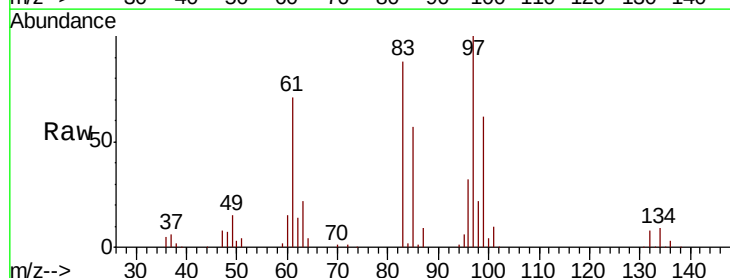
Ion Ratio Lower Upper

97 100

83 88.2 68.7 103.1

85 57.3 46.7 70.1

99 62.0 48.6 72.8



Abundance Ion 97.00 (96.70 to 97.70): VU040105.D (-2042) (-)

Ion 82.95 (82.65 to 83.65): VU040105.D (-2042) (-)

Ion 84.95 (84.65 to 85.65): VU040105.D (-2042) (-)

Ion 98.95 (98.65 to 99.65): VU040105.D (-2042) (-)

120000

100000

80000

60000

40000

20000

0

8.30

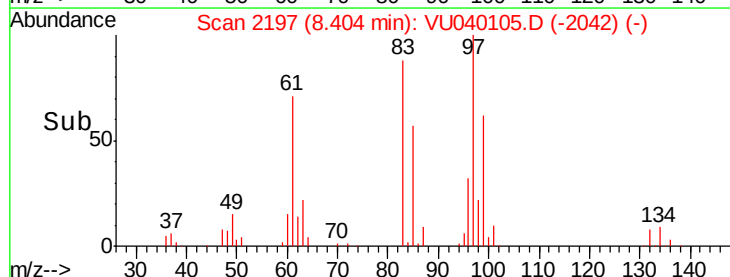
8.35

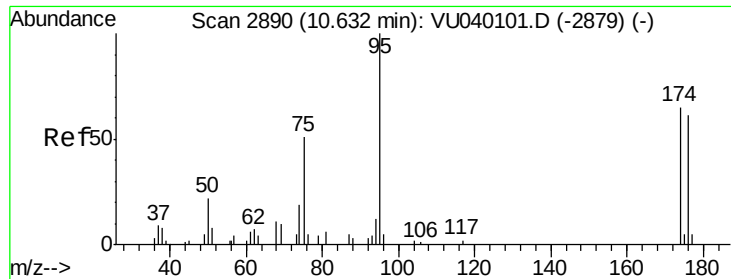
8.40

8.45

8.50

Time-->

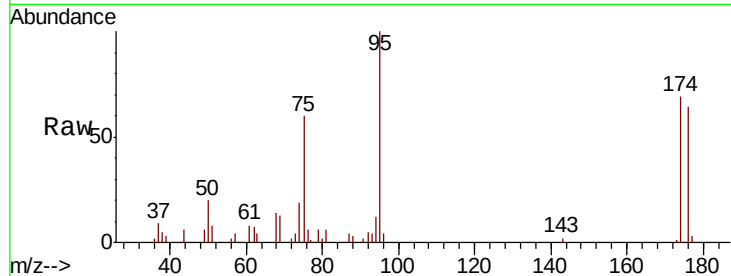




#57
 4-Bromofluorobenzene
 Concen: 0.918 ug/l
 RT: 10.63 min Scan# 2889
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Tot Ion	95	Resp	11508
Ion Ratio	Lower	Upper	
95	100		
174	68.8	49.4	74.0
176	63.4	50.1	75.1

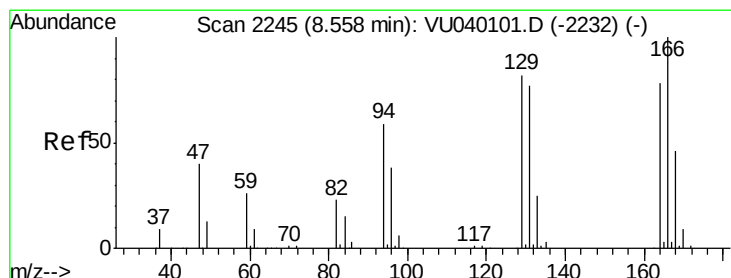
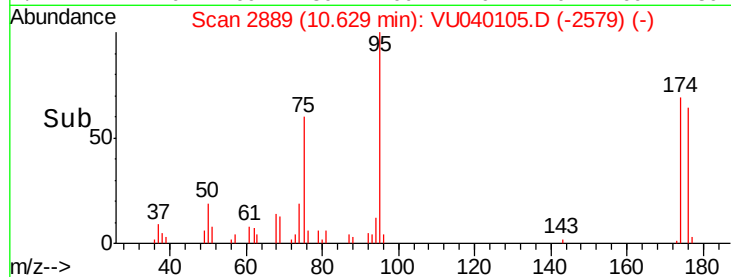
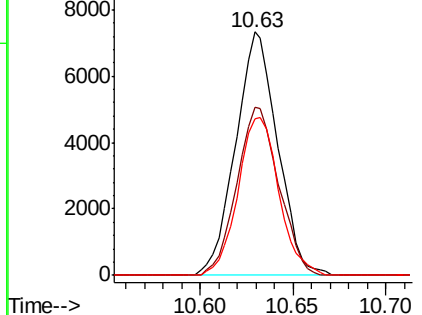


Abundance

Ion 95.00 (94.70 to 95.70): VU040105.D (-2579) (-)

Ion 174.00 (173.70 to 174.70): VU040105.D (-2579) (-)

Ion 176.00 (175.70 to 176.70): VU040105.D (-2579) (-)



#58
 Tetrachloroethene
 Concen: 17.517 ug/l
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion	164	Resp	100793
Ion Ratio	Lower	Upper	
164	100		
166	125.9	101.3	151.9
129	103.6	84.8	127.2
131	100.8	81.8	122.6

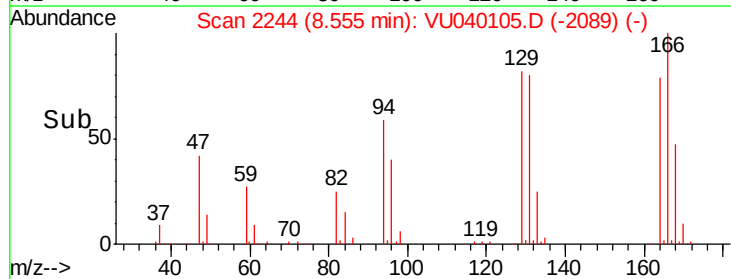
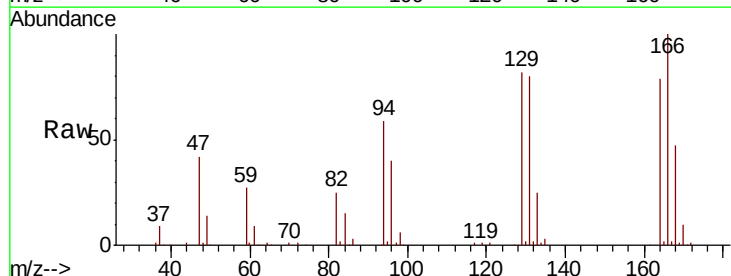
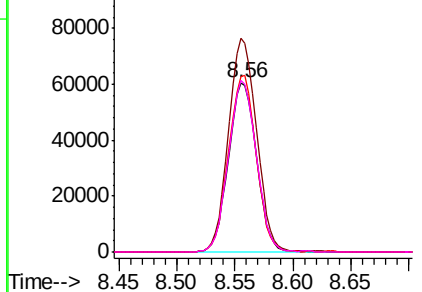
Abundance

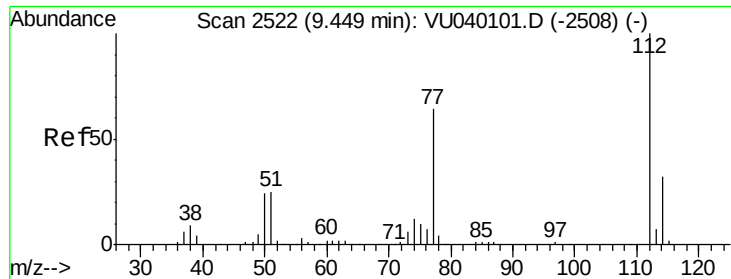
Ion 163.85 (163.55 to 164.55): VU040105.D (-2089) (-)

Ion 165.80 (165.50 to 166.50): VU040105.D (-2089) (-)

Ion 128.90 (128.60 to 129.60): VU040105.D (-2089) (-)

Ion 130.90 (130.60 to 131.60): VU040105.D (-2089) (-)





#59

Chlorobenzene

Concen: 9.097 ug/l

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

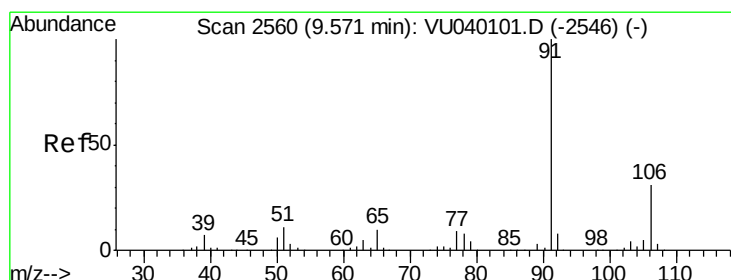
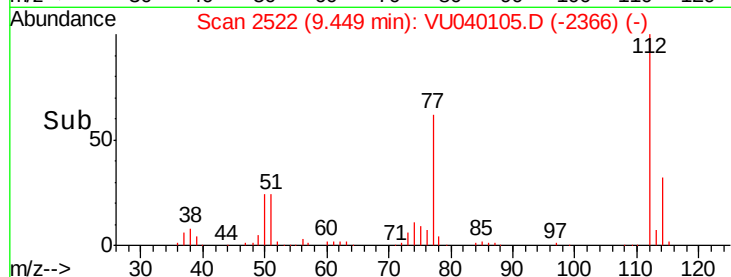
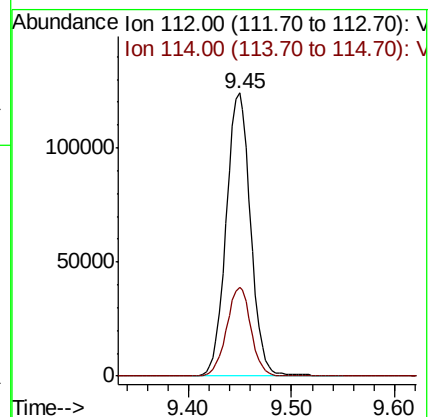
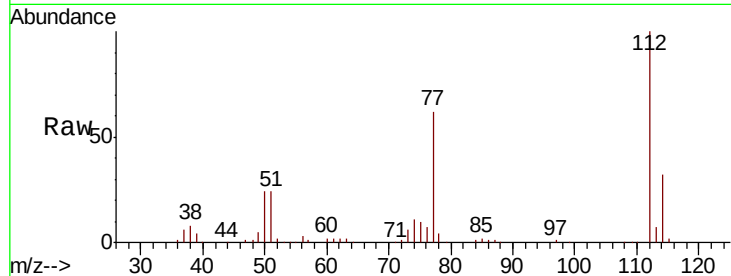
38022-103019

Tot Ion:112 Resp: 204449

Ion Ratio Lower Upper

112 100

114 31.5 24.8 37.2



#63

Ethyl Benzene

Concen: 10.510 ug/l

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040105.D

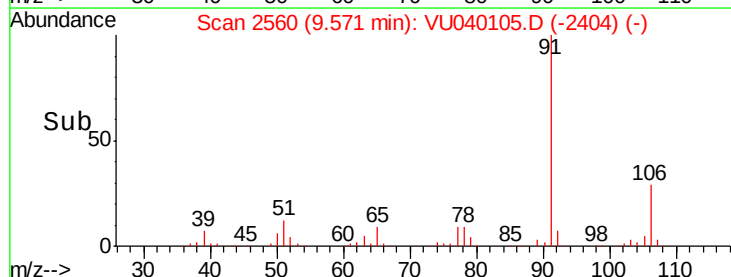
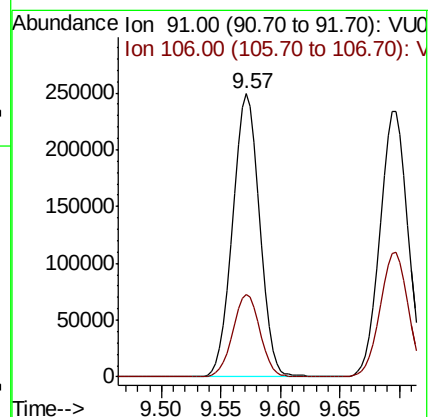
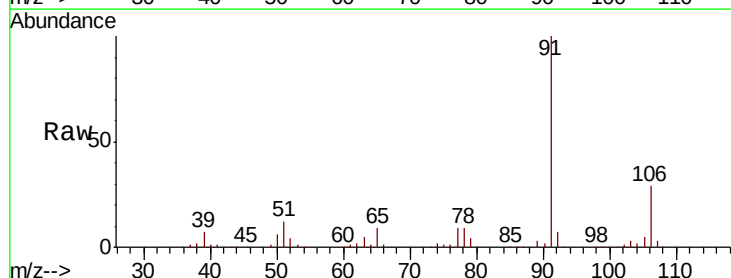
Acq: 11 Sep 2020 15:27

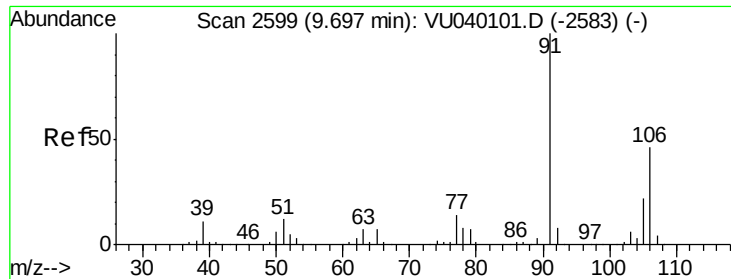
Tgt Ion: 91 Resp: 392188

Ion Ratio Lower Upper

91 100

106 29.3 23.8 35.8

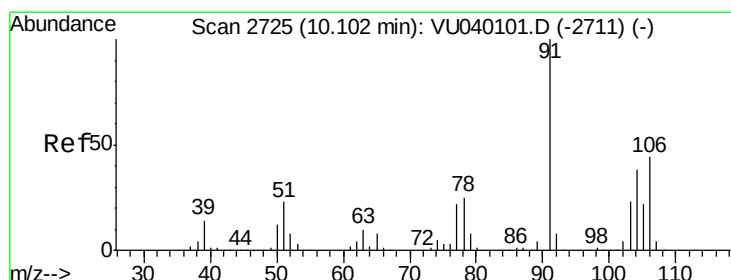
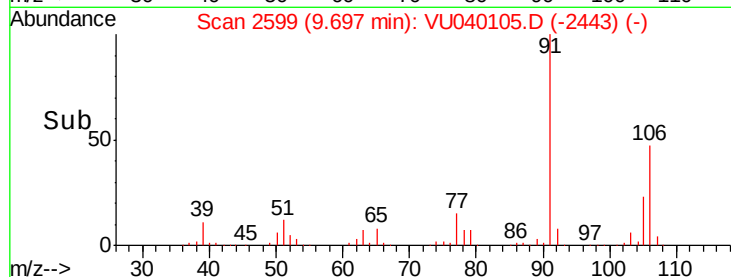
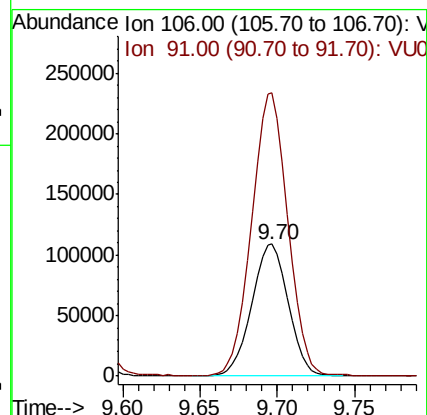
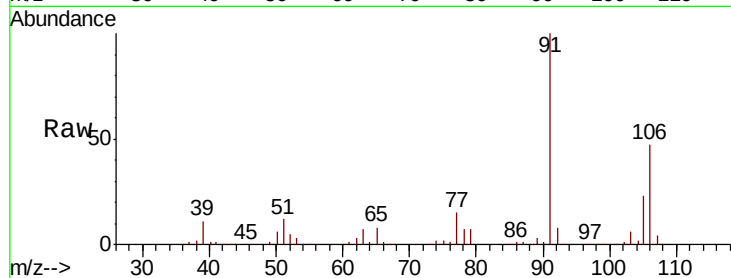




#64
m/p-Xylenes
Concen: 25.317 ug/l
RT: 9.70 min Scan# 2599
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

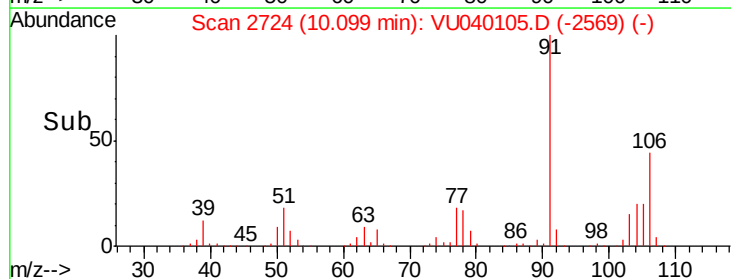
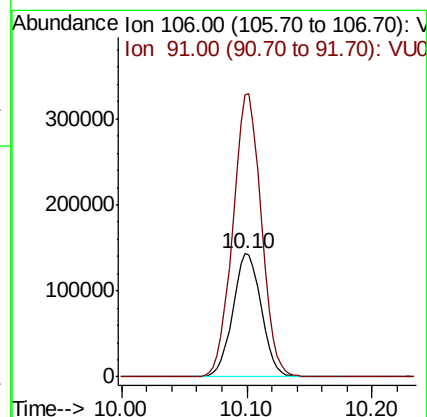
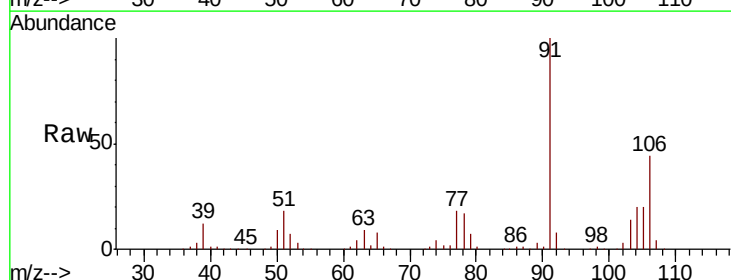
Instrument :
MSVOA_U
ClientSampleId :
38022-103019

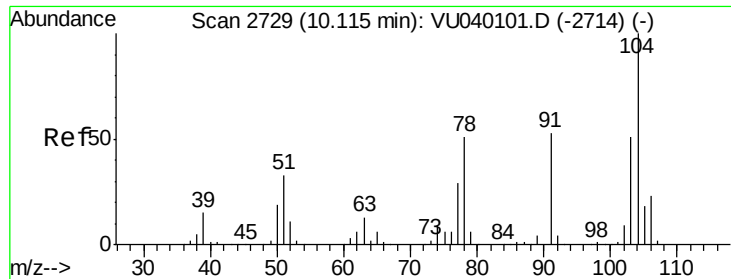
Tot Ion:106 Resp: 179438
Ion Ratio Lower Upper
106 100
91 211.7 171.4 257.2



#65
o-Xylene
Concen: 16.683 ug/l
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Tgt Ion:106 Resp: 226882
Ion Ratio Lower Upper
106 100
91 230.0 114.2 342.6

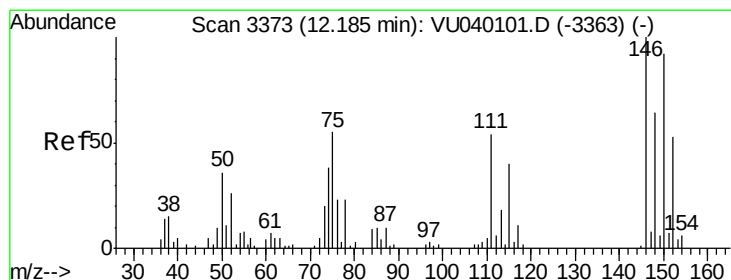
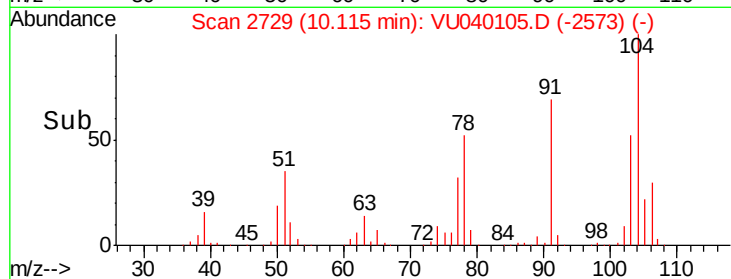
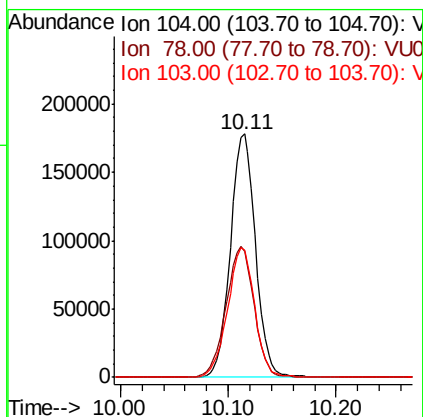
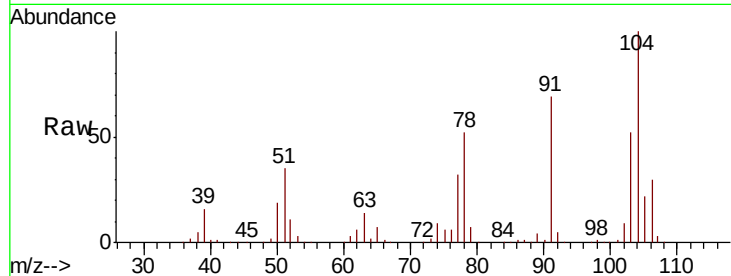




#66
Stvrene
Concen: 11.824 ug/l
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

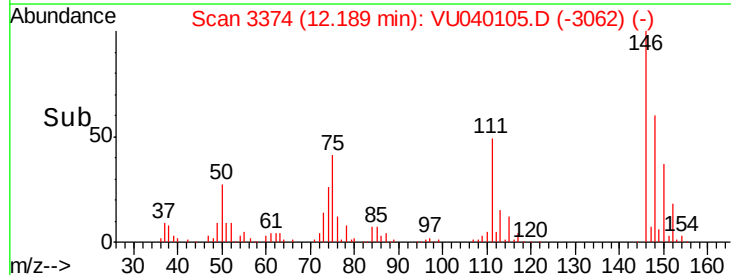
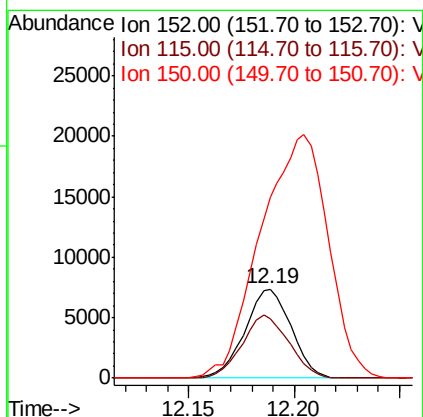
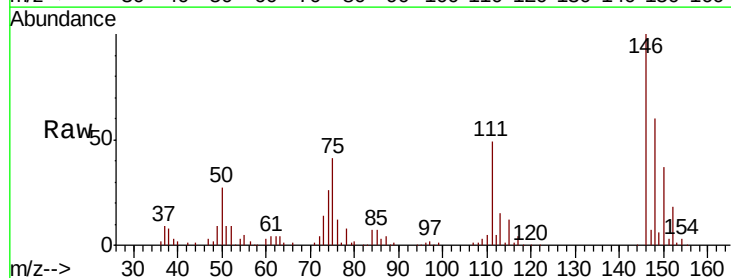
Instrument :
MSVOA_U
ClientSampleId :
38022-103019

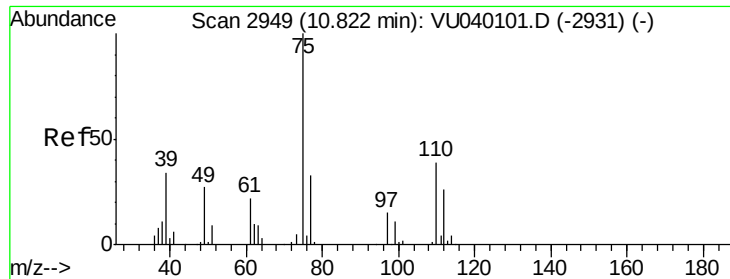
Tot Ion:104 Resp: 287019
Ion Ratio Lower Upper
104 100
78 60.2 43.9 65.9
103 57.5 43.7 65.5



#68
1,2-Dichlorobenzene-d4
Concen: 0.999 ug/l
RT: 12.19 min Scan# 3374
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Tgt Ion:152 Resp: 11250
Ion Ratio Lower Upper
152 100
115 71.1 0.0 309.0
150 397.3 0.0 658.2

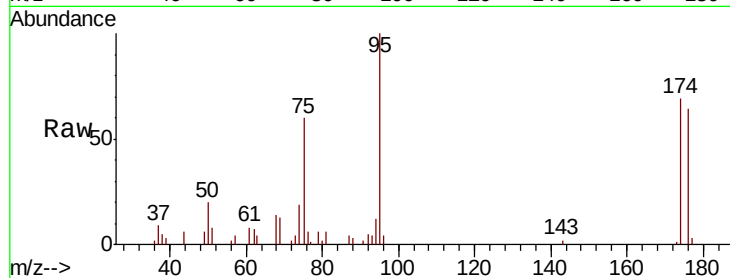




#71
 1,2,3-Trichloropropane
 Concen: 0.939 ug/l
 RT: 10.63 min Scan# 2889
 Delta R.T. -0.19 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Tot Ion:	75	Resp:	6927
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	111.4
110	0.0	0.0	70.8
97	0.0	0.0	36.0

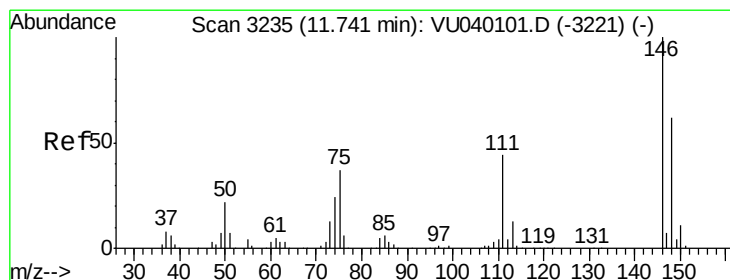
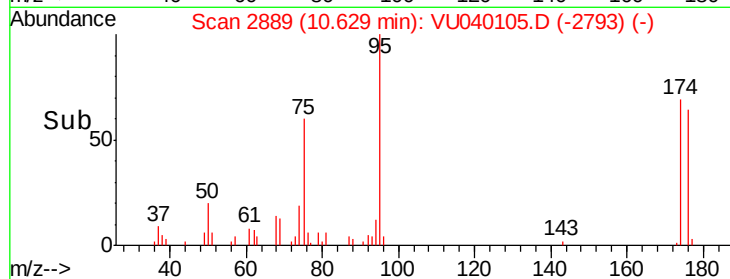
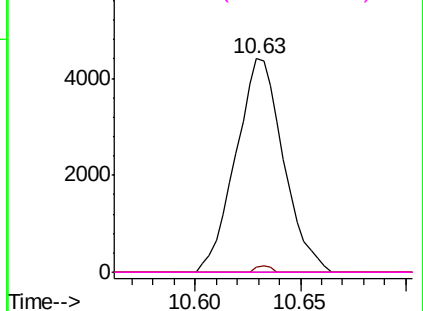


Abundance Ion 75.00 (74.70 to 75.70): VU040105.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU040105.D (-2889) (-)

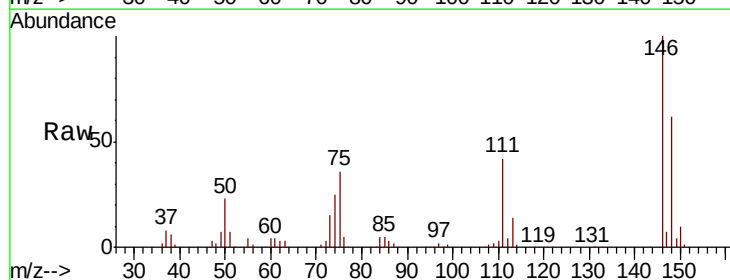
Ion 110.00 (109.70 to 110.70): VU040105.D (-2889) (-)

Ion 97.00 (96.70 to 97.70): VU040105.D (-2889) (-)



#82
 1,3-Dichlorobenzene
 Concen: 14.526 ug/l
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.09 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

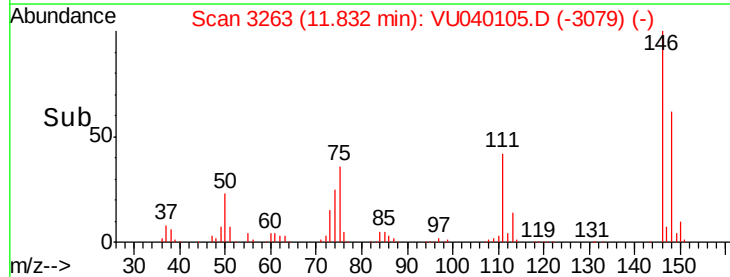
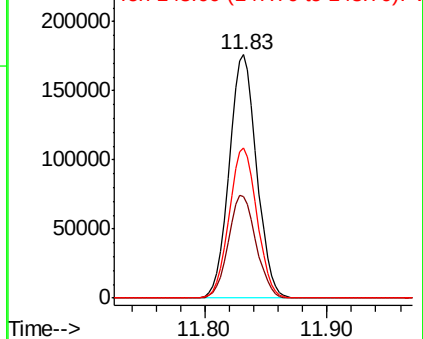
Tgt Ion:	146	Resp:	275849
Ion	Ratio	Lower	Upper
146	100		
111	42.7	35.4	53.0
148	62.5	49.7	74.5

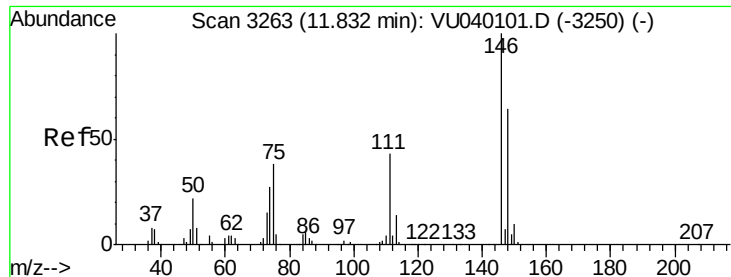


Abundance Ion 146.00 (145.70 to 146.70): VU040105.D (-3263) (-)

Ion 111.00 (110.70 to 111.70): VU040105.D (-3263) (-)

Ion 148.00 (147.70 to 148.70): VU040105.D (-3263) (-)

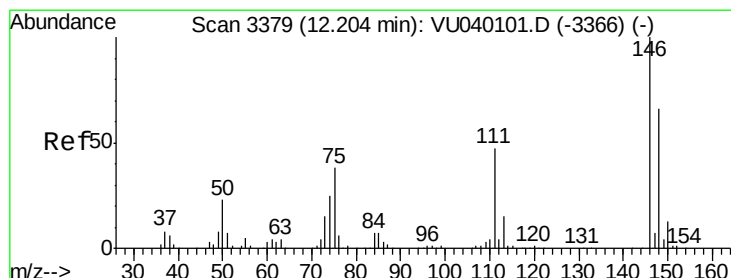
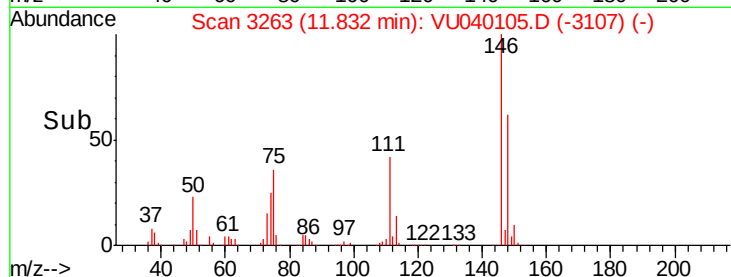
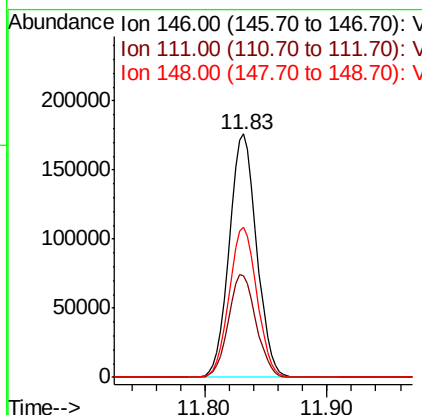
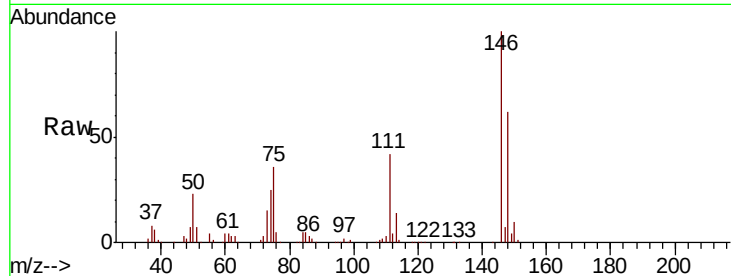




#83
 1,4-Dichlorobenzene
 Concen: 14.858 ug/l
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

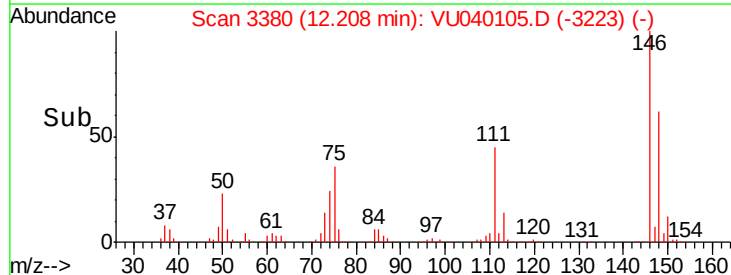
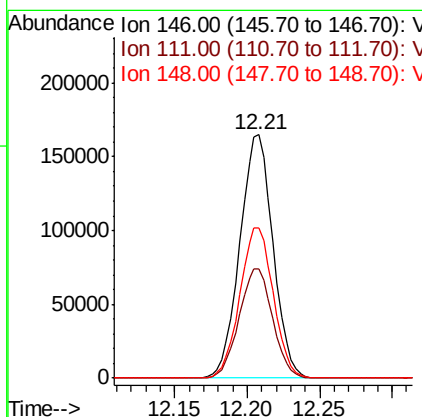
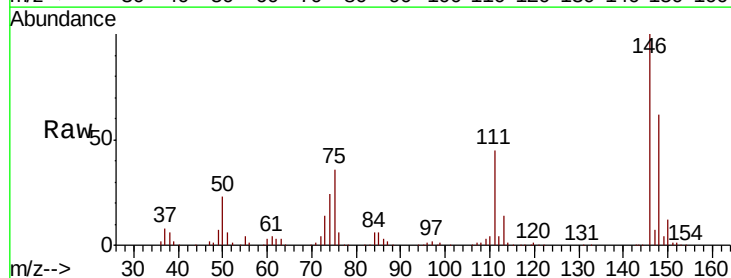
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

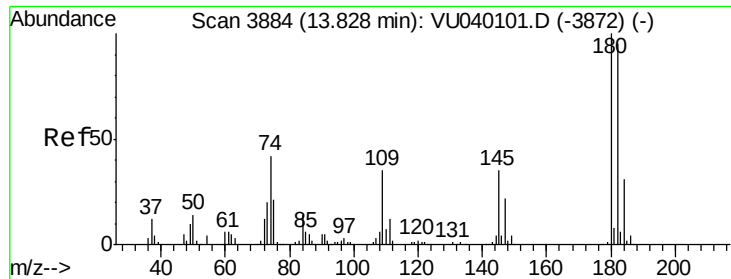
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	34.2	51.2
148	62.5	50.2	75.2



#85
 1,2-Dichlorobenzene
 Concen: 14.806 ug/l
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.9	68.7
148	62.3	31.1	93.2

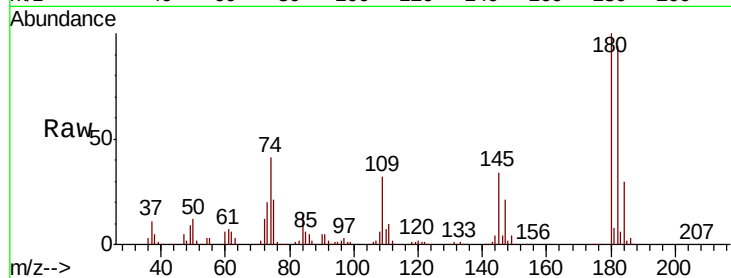




#87
 1,2,4-Trichlorobenzene
 Concen: 20.399 ug/l
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.0	112.4
145	34.7	27.7	41.5



Abundance

Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

