

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092220\
 Data File : VU040251.D
 Acq On : 22 Sep 2020 16:57
 Operator : SY/MD
 Sample : L4089-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-111319

Quant Time: Sep 23 08:24:02 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

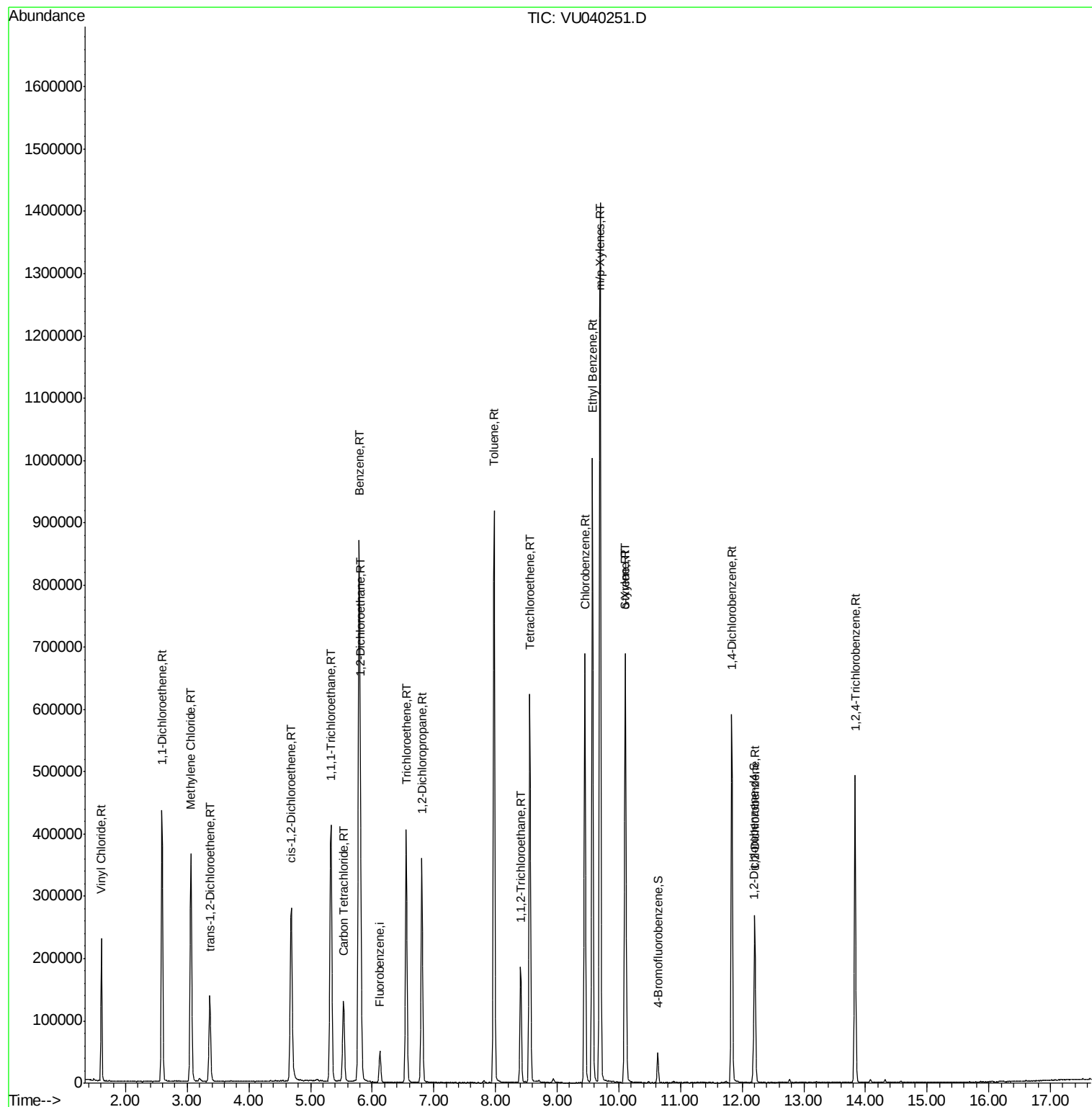
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.12	96	41017	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	14383	0.84	ug/l	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	14913	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
Target Compounds						
					Ovalue	
4) Vinyl Chloride	1.61	62	143782	8.772	ug/l	99
9) 1,1-Dichloroethene	2.59	96	134680	17.024	ug/l	97
15) Methylene Chloride	3.06	84	152845	11.497	ug/l	95
16) trans-1,2-Dichloroethene	3.37	96	51369	6.041	ug/l	99
22) cis-1,2-Dichloroethene	4.68	96	129176	12.051	ug/l	86
28) 1,1,1-Trichloroethane	5.33	97	289268	15.072	ug/l	99
30) Carbon Tetrachloride	5.54	117	82138	5.210	ug/l	99
35) Benzene	5.79	78	713366	17.410	ug/l	99
36) 1,2-Dichloroethane	5.81	62	257045	15.610	ug/l	99
37) Trichloroethene	6.55	130	128259	12.186	ug/l	98
38) 1,2-Dichloropropane	6.81	63	125459	9.893	ug/l	95
49) Toluene	7.98	92	351253	13.516	ug/l	100
52) 1,1,2-Trichloroethane	8.41	97	52591	5.220	ug/l	98
58) Tetrachloroethene	8.56	164	123892	15.835	ug/l	96
59) Chlorobenzene	9.45	112	331086	10.835	ug/l	97
63) Ethyl Benzene	9.57	91	649942	12.809	ug/l	100
64) m/p-Xylenes	9.70	106	366637	38.042	ug/l	99
65) o-Xylene	10.10	106	135317	7.318	ug/l	97
66) Styrene	10.11	104	137769	4.174	ug/l	94
83) 1,4-Dichlorobenzene	11.83	146	218145	8.641	ug/l	99
85) 1,2-Dichlorobenzene	12.21	146	93458	3.884	ug/l	97
87) 1,2,4-Trichlorobenzene	13.83	180	138068	9.984	ug/l	98
-----	-----	-----	-----	-----	-----	-----

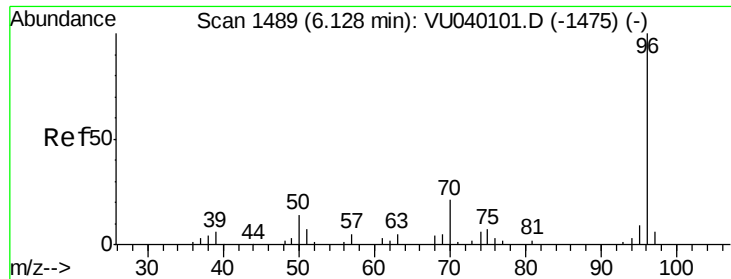
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.12 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

38022-111319

Tot Ion: 96 Resp: 41017

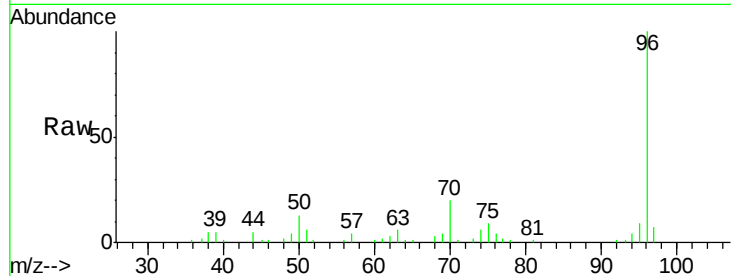
Ion Ratio Lower Upper

96 100

70 20.3 17.1 25.7

95 8.8 7.6 11.4

97 0.0 0.0 0.0

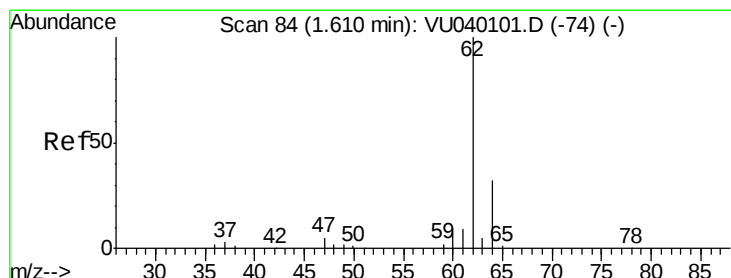
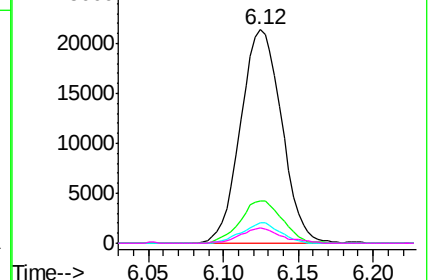
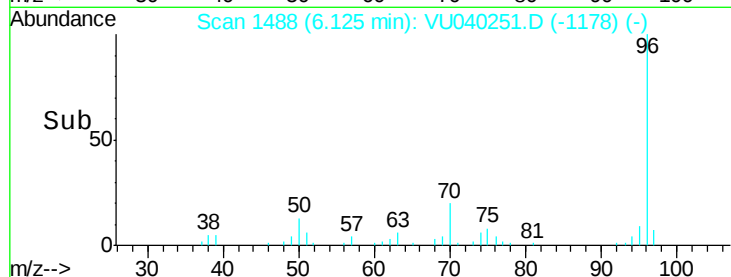


Abundance Ion 96.00 (95.70 to 96.70): VU0

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: 8.772 ug/l

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU040251.D

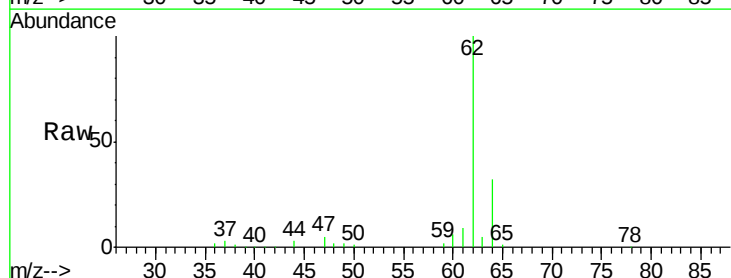
Acq: 22 Sep 2020 16:57

Tgt Ion: 62 Resp: 143782

Ion Ratio Lower Upper

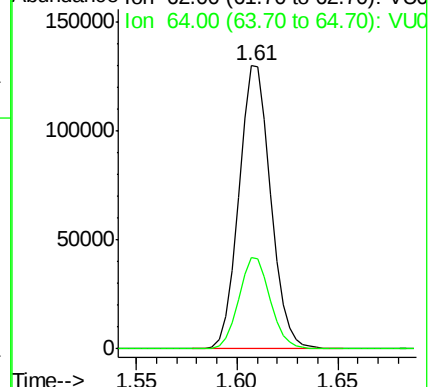
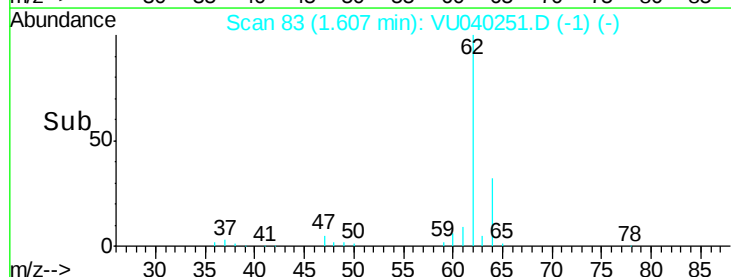
62 100

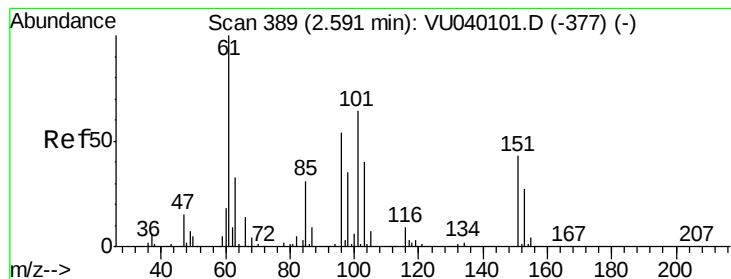
64 32.3 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 17.024 ug/l

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

38022-111319

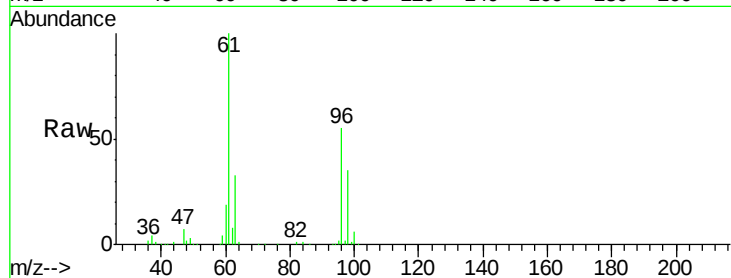
Tot Ion: 96 Resp: 134680

Ion Ratio Lower Upper

96 100

61 180.6 0.0 557.1

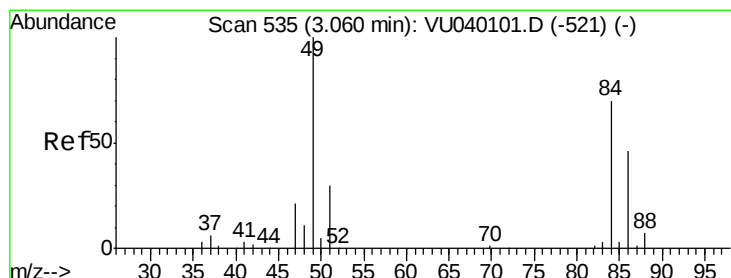
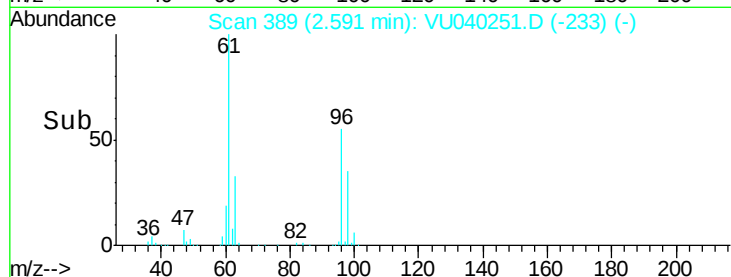
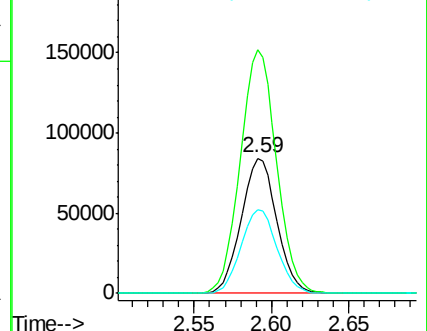
98 62.4 0.0 125.6



Abundance Ion 96.00 (95.70 to 96.70): VU040251.D (-377) (-)

Ion 61.00 (60.70 to 61.70): VU040251.D (-377) (-)

Ion 98.00 (97.70 to 98.70): VU040251.D (-377) (-)



#15

Methylene Chloride

Concen: 11.497 ug/l

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Tgt Ion: 84 Resp: 152845

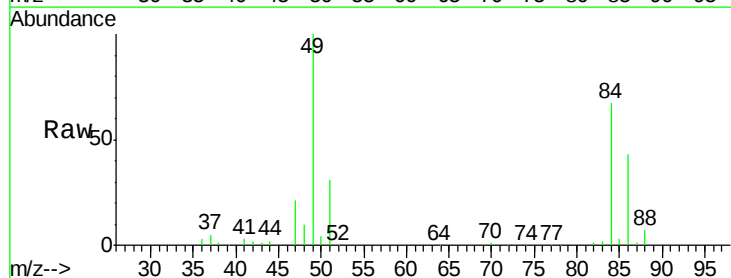
Ion Ratio Lower Upper

84 100

49 150.4 114.3 171.5

51 46.8 0.0 84.6

86 64.3 50.6 76.0

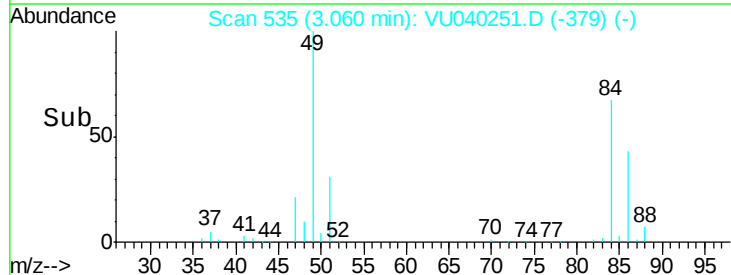
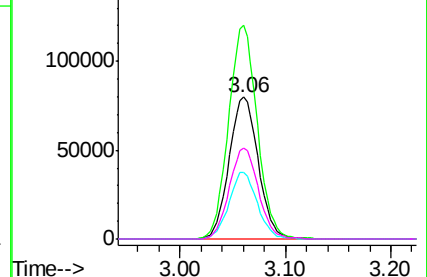


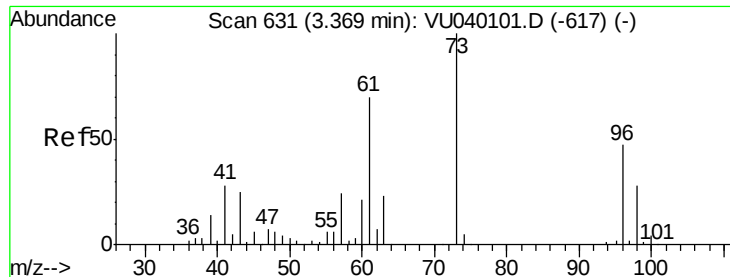
Abundance Ion 84.00 (83.70 to 84.70): VU040251.D (-521) (-)

Ion 49.00 (48.70 to 49.70): VU040251.D (-521) (-)

Ion 51.00 (50.70 to 51.70): VU040251.D (-521) (-)

Ion 86.00 (85.70 to 86.70): VU040251.D (-521) (-)

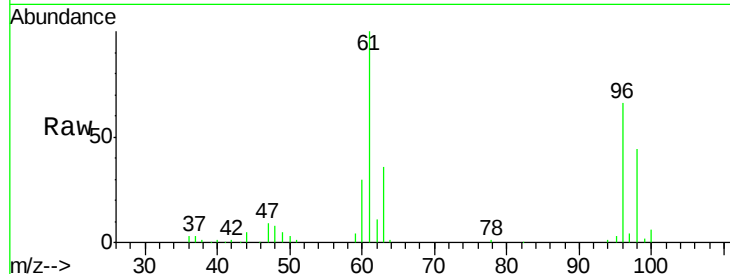




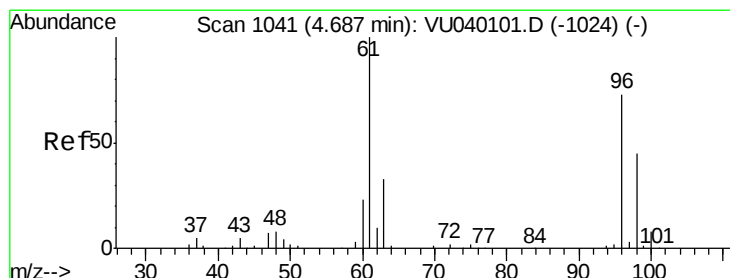
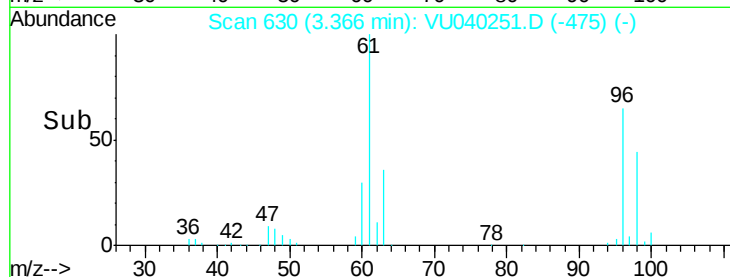
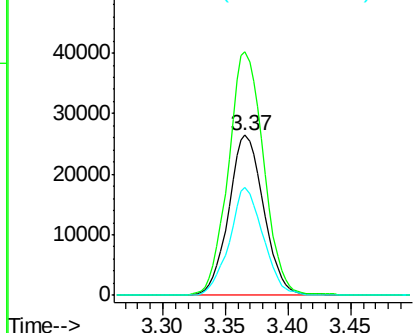
#16
 trans-1,2-Dichloroethene
 Concen: 6.041 ug/l
 RT: 3.37 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VU040251.D
 Acq: 22 Sep 2020 16:57

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-111319

Tot Ion: 96 Resp: 51369
 Ion Ratio Lower Upper
 96 100
 61 151.8 121.4 182.0
 98 67.2 51.9 77.9

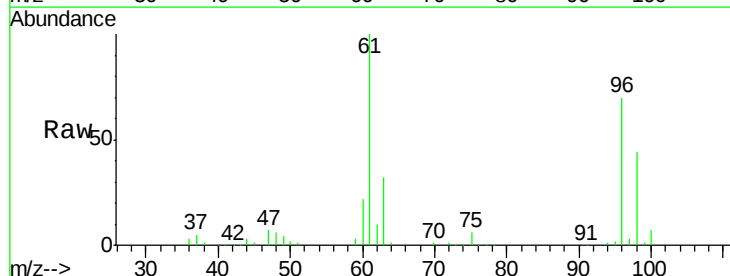


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

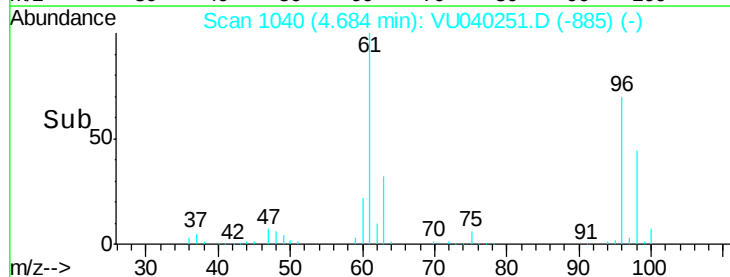
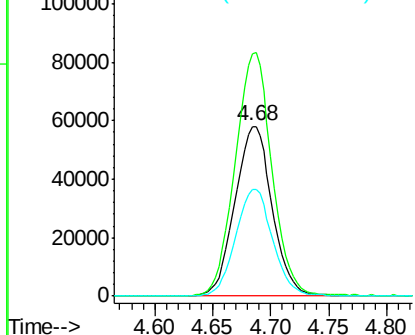


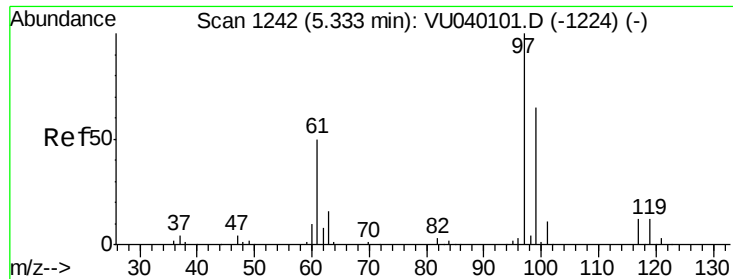
#22
 cis-1,2-Dichloroethene
 Concen: 12.051 ug/l
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VU040251.D
 Acq: 22 Sep 2020 16:57

Tgt Ion: 96 Resp: 129176
 Ion Ratio Lower Upper
 96 100
 61 142.1 0.0 420.0
 98 62.7 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

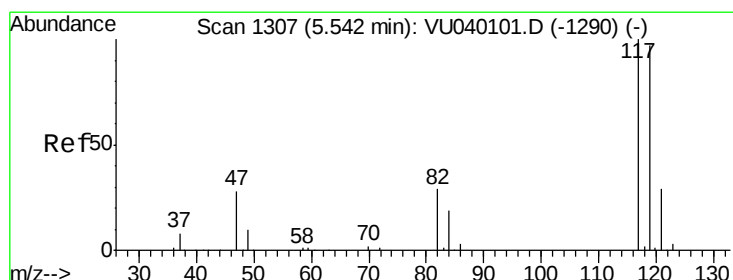
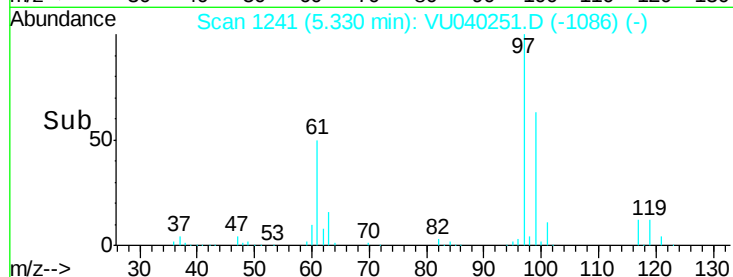
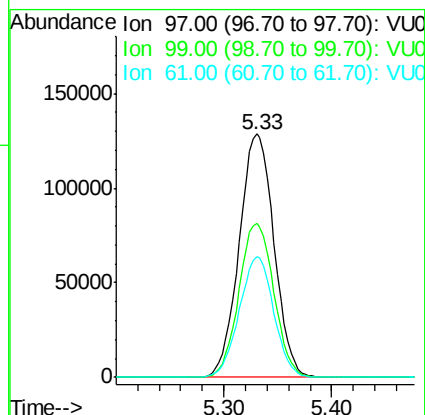
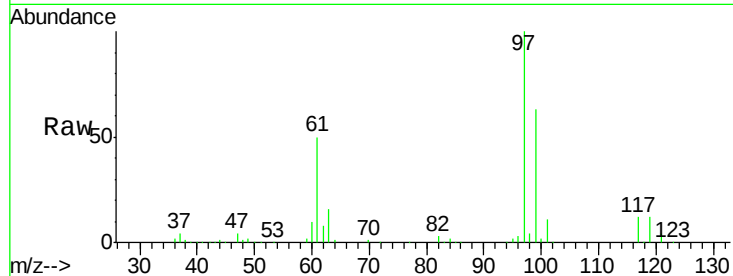




#28
 1,1,1-Trichloroethane
 Concen: 15.072 ug/l
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU040251.D
 Acq: 22 Sep 2020 16:57

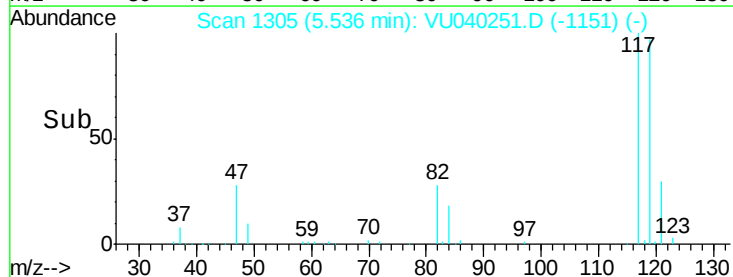
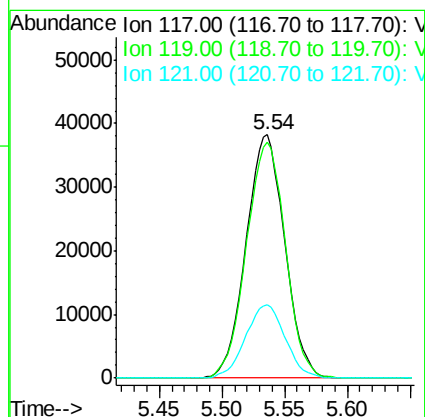
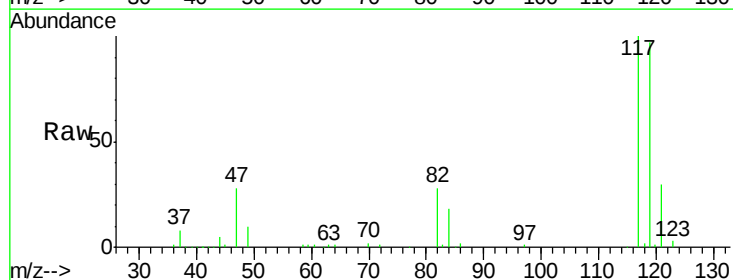
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-111319

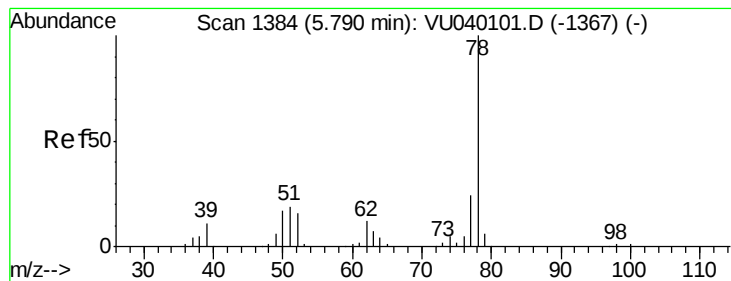
Tot Ion: 97 Resp: 289268
 Ion Ratio Lower Upper
 97 100
 99 63.4 31.8 95.4
 61 49.2 25.1 75.2



#30
 Carbon Tetrachloride
 Concen: 5.210 ug/l
 RT: 5.54 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: VU040251.D
 Acq: 22 Sep 2020 16:57

Tgt Ion: 117 Resp: 82138
 Ion Ratio Lower Upper
 117 100
 119 97.1 77.0 115.4
 121 29.9 24.2 36.4





#35

Benzene

Concen: 17.410 ug/l

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

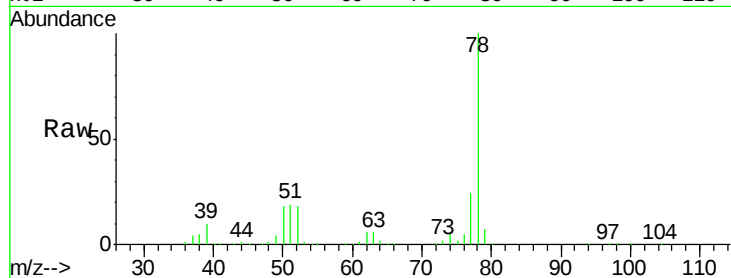
38022-111319

Tot Ion: 78 Resp: 713366

Ion Ratio Lower Upper

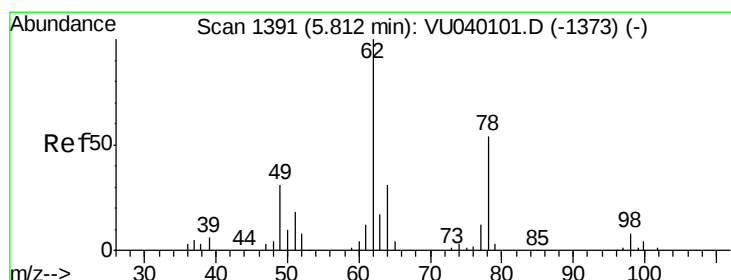
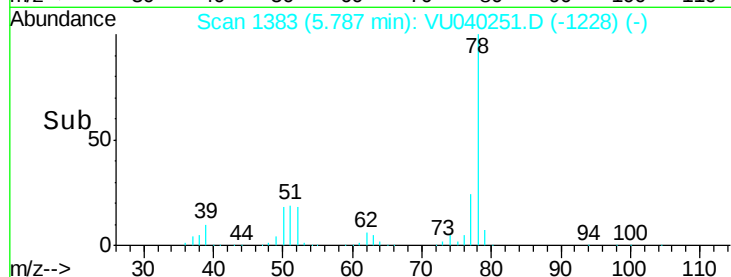
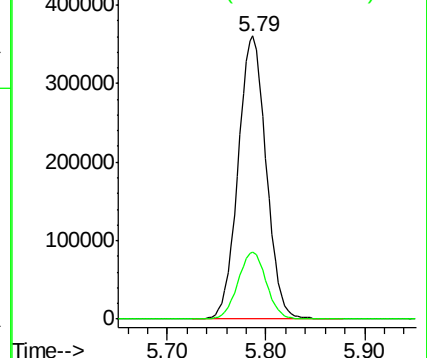
78 100

77 23.5 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU040251.D (-1228) (-)

Ion 77.00 (76.70 to 77.70): VU040251.D (-1228) (-)



#36

1,2-Dichloroethane

Concen: 15.610 ug/l

RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VU040251.D

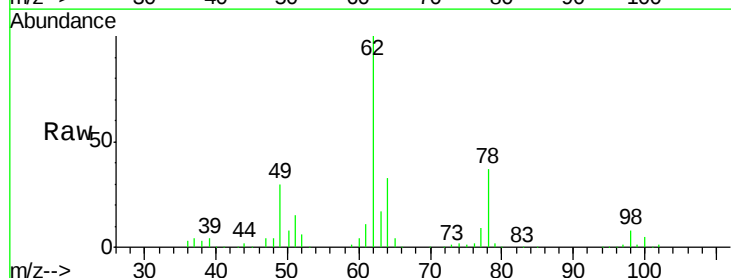
Acq: 22 Sep 2020 16:57

Tgt Ion: 62 Resp: 257045

Ion Ratio Lower Upper

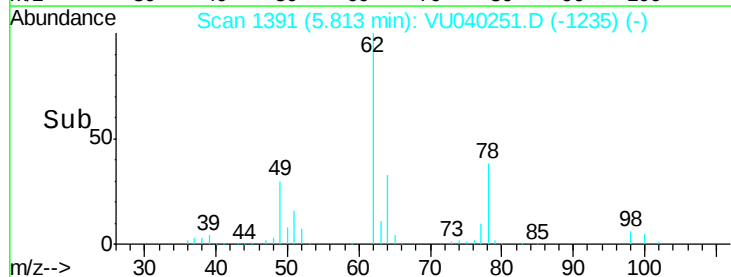
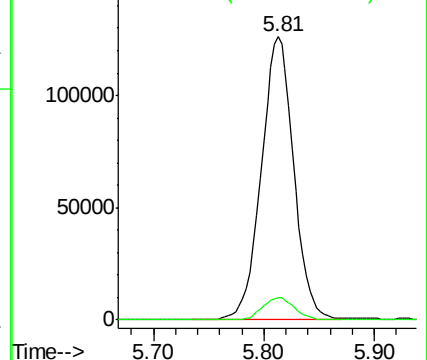
62 100

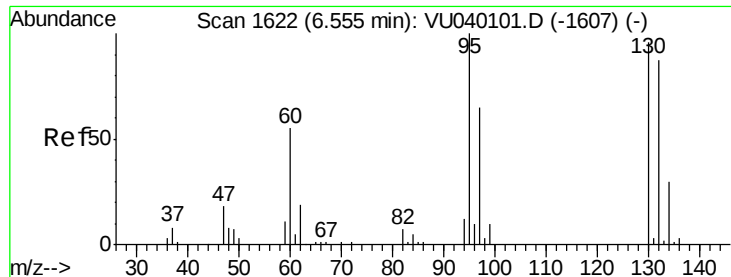
98 7.8 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU040251.D (-1235) (-)

Ion 98.00 (97.70 to 98.70): VU040251.D (-1235) (-)

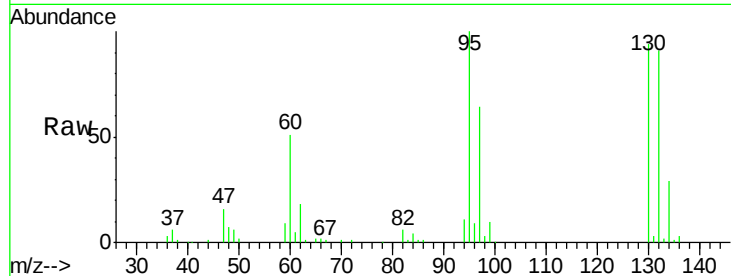




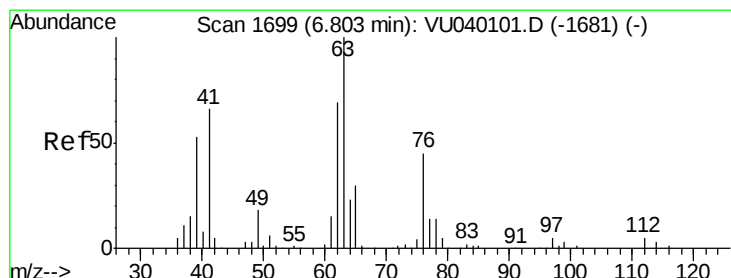
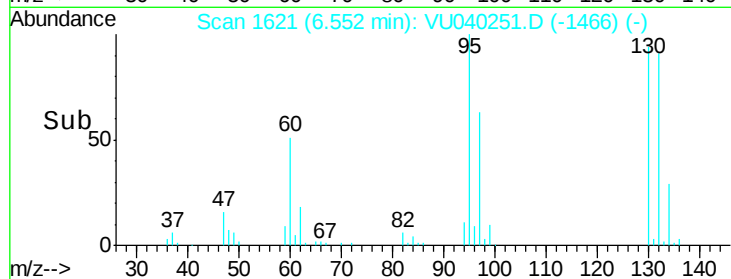
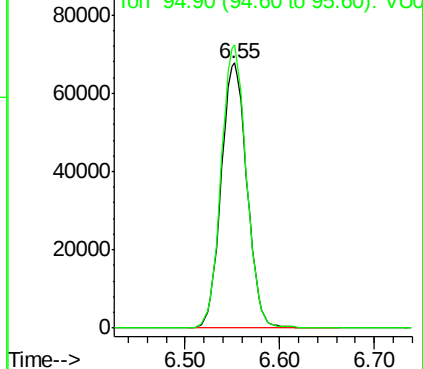
#37
 Trichloroethene
 Concen: 12.186 ug/l
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040251.D
 Acq: 22 Sep 2020 16:57

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-111319

Tot Ion:130 Resp: 128259
 Ion Ratio Lower Upper
 130 100
 95 106.8 84.2 126.2

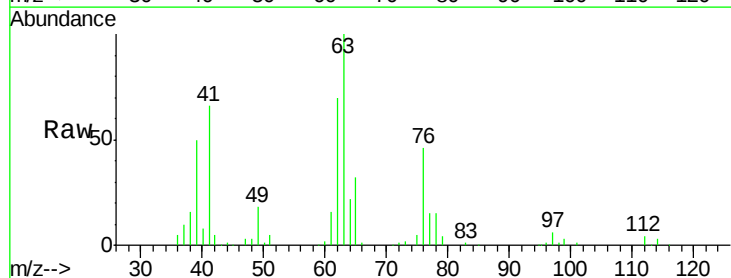


Abundance Ion 129.90 (129.60 to 130.60): VU040101.D (-1607) (-)
 Ion 94.90 (94.60 to 95.60): VU040101.D (-1607) (-)

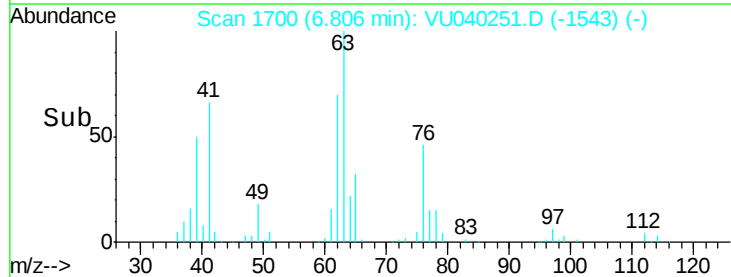
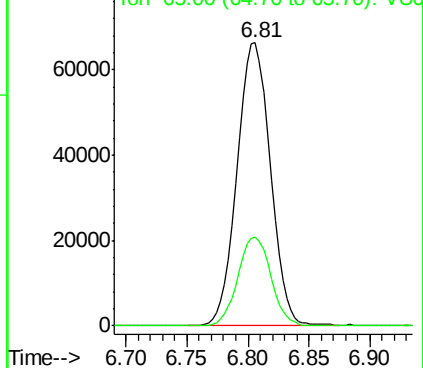


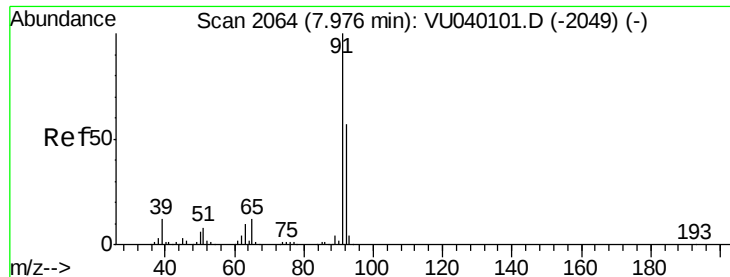
#38
 1,2-Dichloropropane
 Concen: 9.893 ug/l
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU040251.D
 Acq: 22 Sep 2020 16:57

Tgt Ion: 63 Resp: 125459
 Ion Ratio Lower Upper
 63 100
 65 31.6 23.0 34.6



Abundance Ion 63.00 (62.70 to 63.70): VU040101.D (-1681) (-)
 Ion 65.00 (64.70 to 65.70): VU040101.D (-1681) (-)





#49

Toluene

Concen: 13.516 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

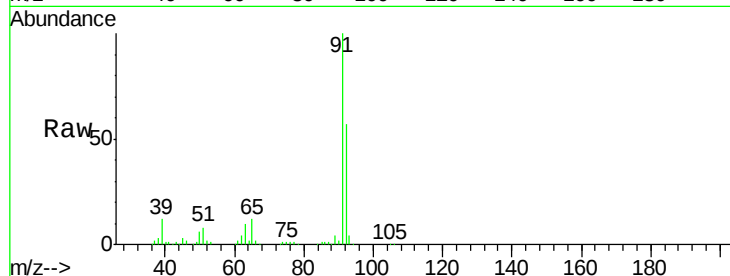
38022-111319

Tot Ion: 92 Resp: 351253

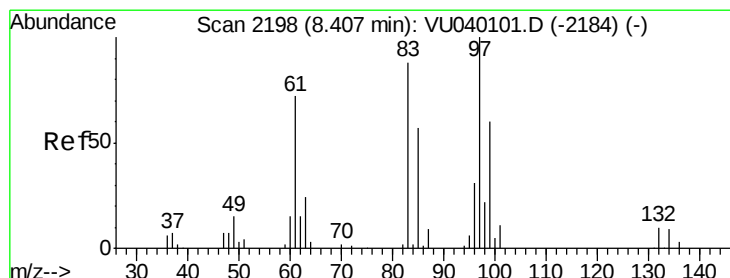
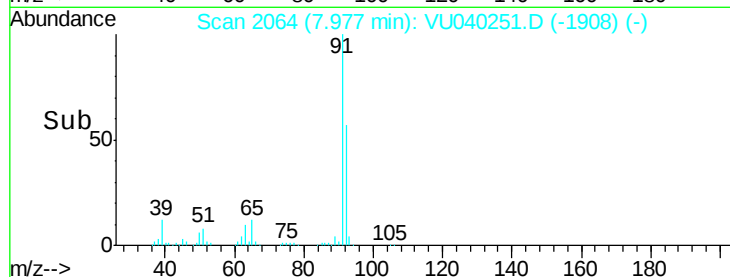
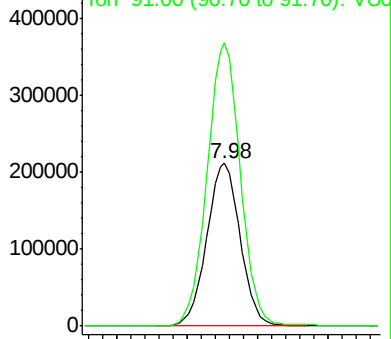
Ion Ratio Lower Upper

92 100

91 173.2 138.6 207.8



Abundance Ion 92.00 (91.70 to 92.70): VU040251.D (-1908) (-)



#52

1,1,2-Trichloroethane

Concen: 5.220 ug/l

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Tgt Ion: 97 Resp: 52591

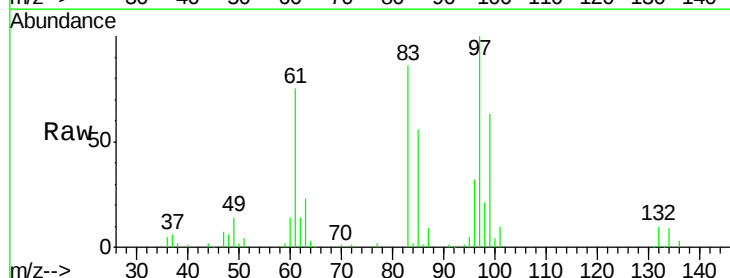
Ion Ratio Lower Upper

97 100

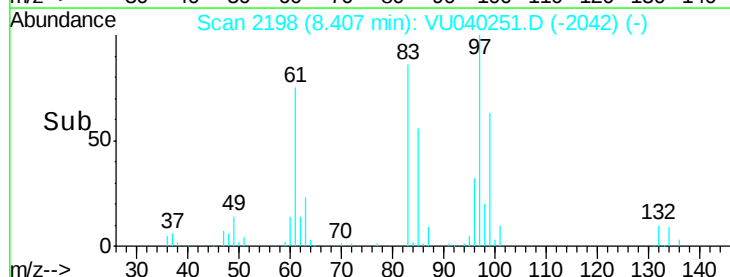
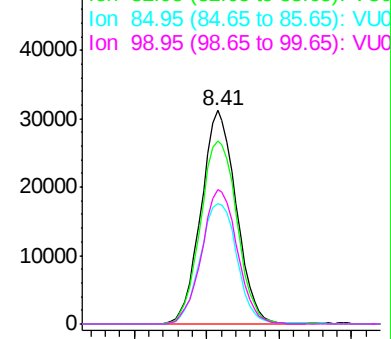
83 85.9 68.7 103.1

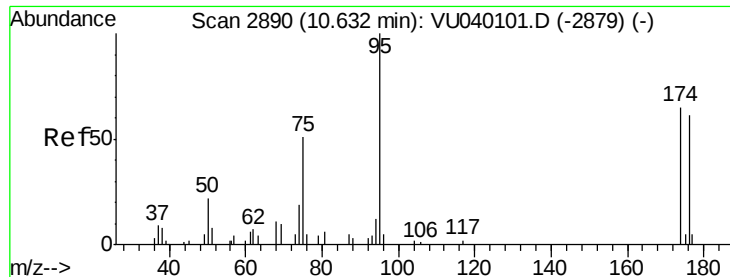
85 56.4 46.7 70.1

99 62.9 48.6 72.8



Abundance Ion 97.00 (96.70 to 97.70): VU040251.D (-2042) (-)

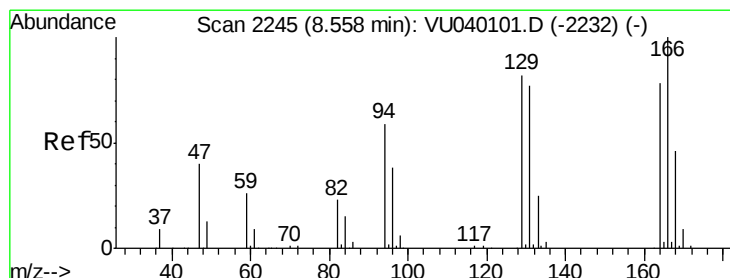
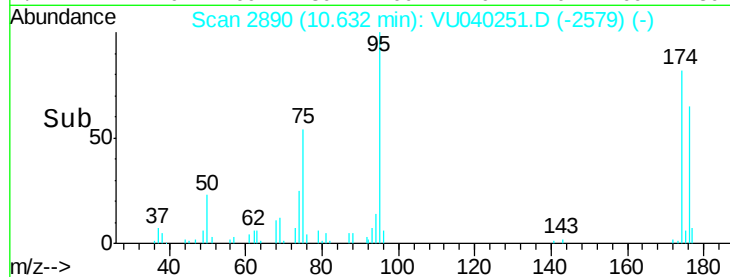
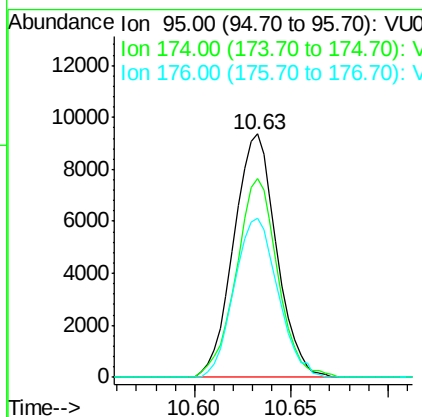
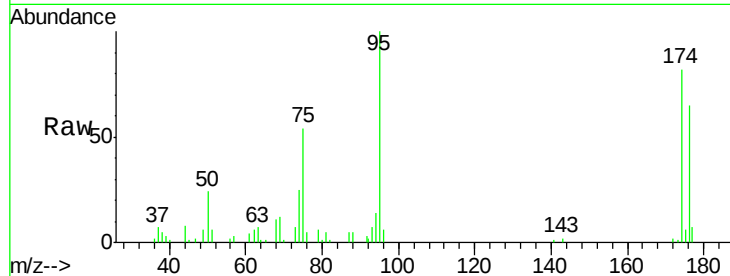




#57
4-Bromofluorobenzene
Concen: 0.844 ug/l
RT: 10.63 min Scan# 2890
Delta R.T. 0.00 min
Lab File: VU040251.D
Acq: 22 Sep 2020 16:57

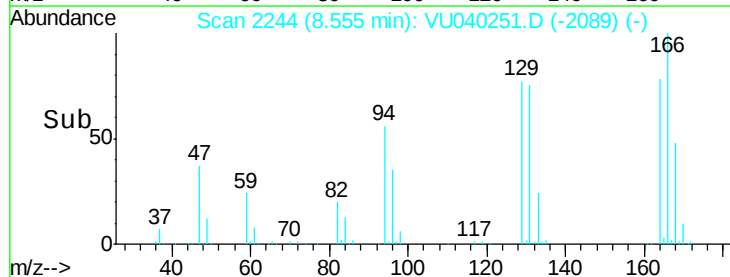
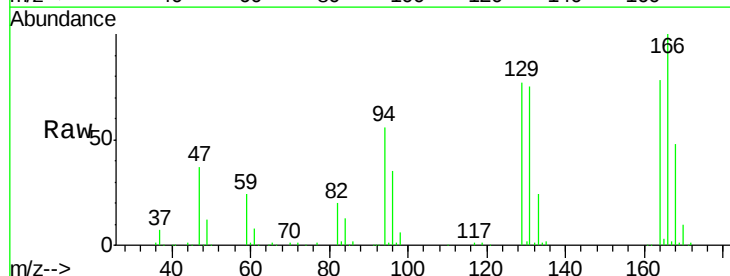
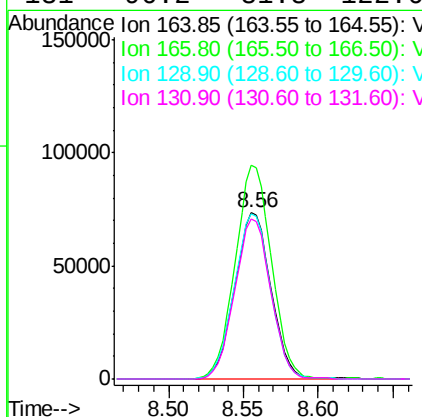
Instrument :
MSVOA_U
ClientSampleId :
38022-111319

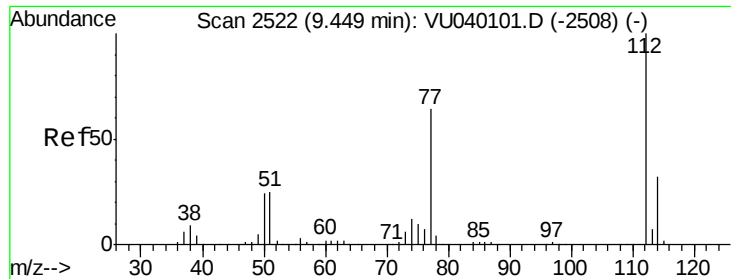
Tot Ion: 95 Resp: 14383
Ion Ratio Lower Upper
95 100
174 79.3 49.4 74.0#
176 66.5 50.1 75.1



#58
Tetrachloroethene
Concen: 15.835 ug/l
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU040251.D
Acq: 22 Sep 2020 16:57

Tgt Ion: 164 Resp: 123892
Ion Ratio Lower Upper
164 100
166 128.7 101.3 151.9
129 99.4 84.8 127.2
131 96.2 81.8 122.6

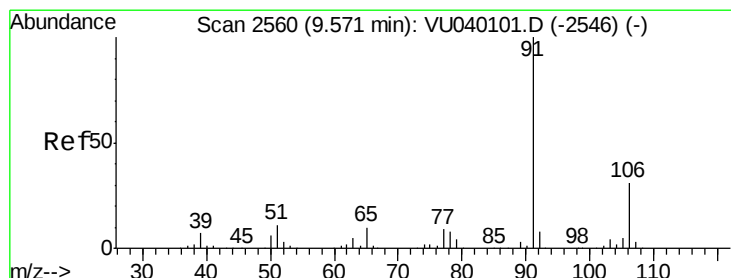
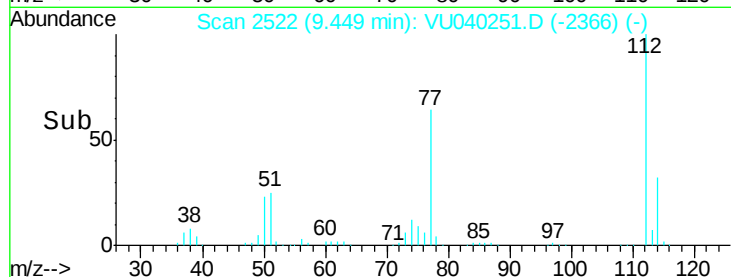
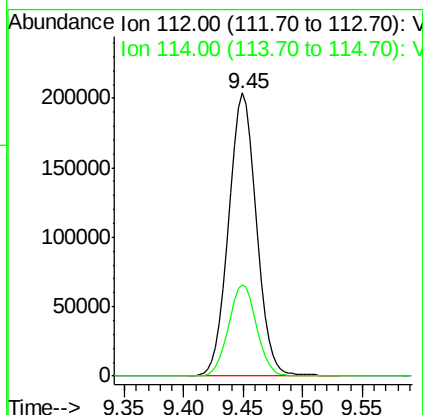
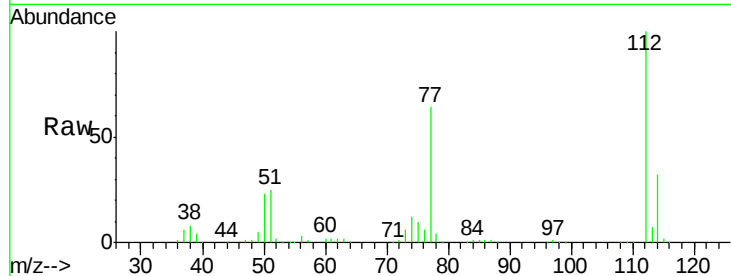




#59
Chlorobenzene
Concen: 10.835 ug/l
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040251.D
Acq: 22 Sep 2020 16:57

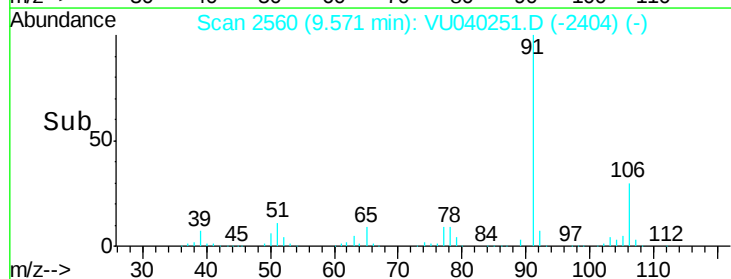
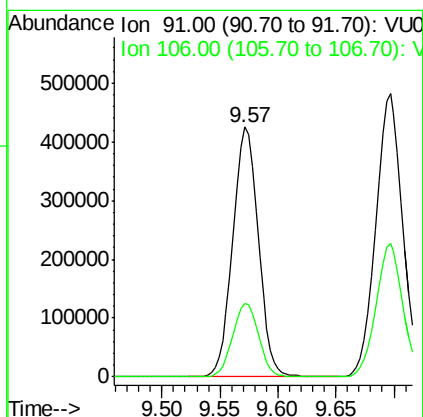
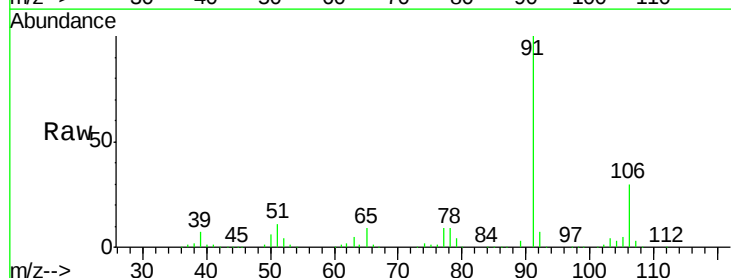
Instrument :
MSVOA_U
ClientSampleId :
38022-111319

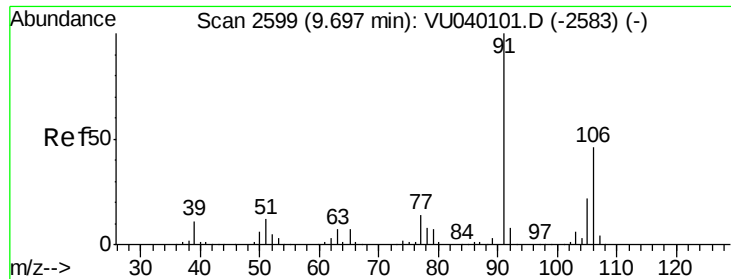
Tot Ion:112 Resp: 331086
Ion Ratio Lower Upper
112 100
114 32.4 24.8 37.2



#63
Ethyl Benzene
Concen: 12.809 ug/l
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040251.D
Acq: 22 Sep 2020 16:57

Tgt Ion: 91 Resp: 649942
Ion Ratio Lower Upper
91 100
106 29.6 23.8 35.8





#64

m/p-Xvlenes

Concen: 38.042 ug/l

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

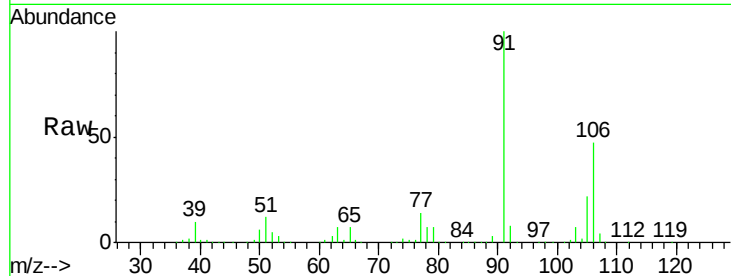
38022-111319

Tot Ion:106 Resp: 366637

Ion Ratio Lower Upper

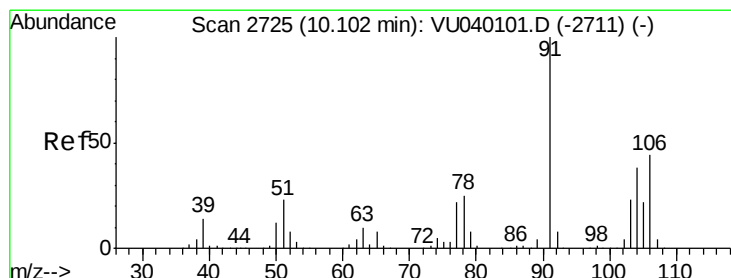
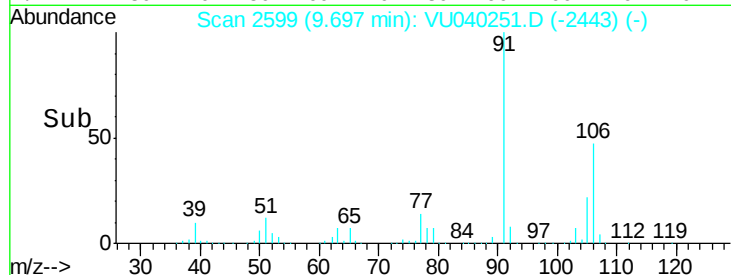
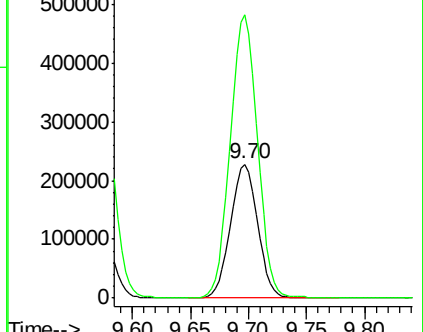
106 100

91 212.0 171.4 257.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 7.318 ug/l

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040251.D

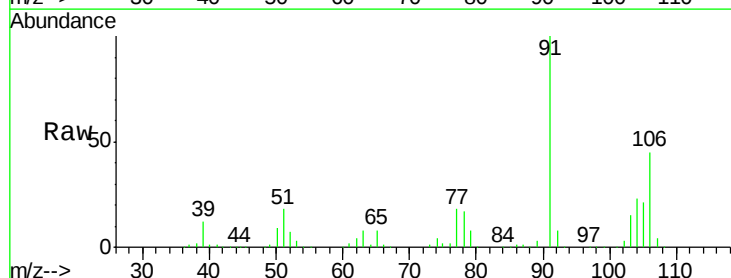
Acq: 22 Sep 2020 16:57

Tgt Ion:106 Resp: 135317

Ion Ratio Lower Upper

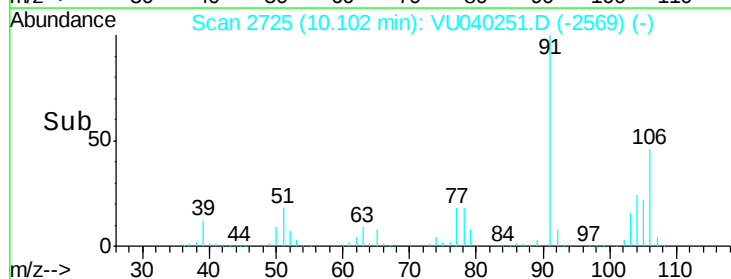
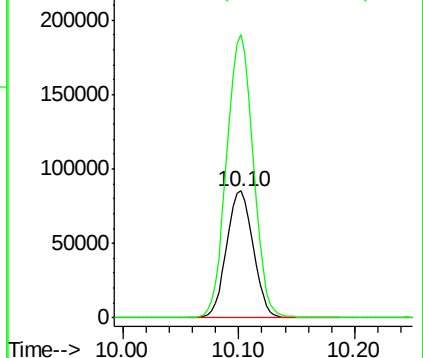
106 100

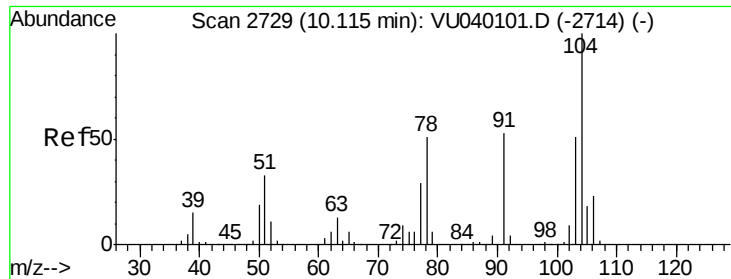
91 223.0 114.2 342.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

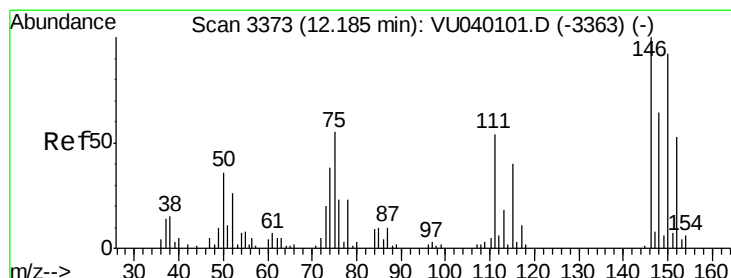
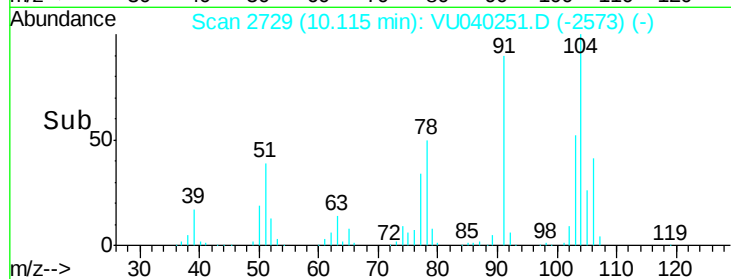
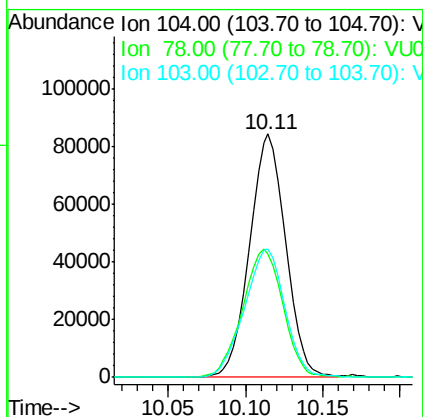
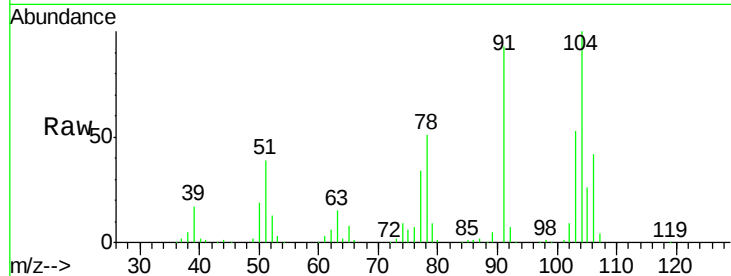




#66
Stvrene
Concen: 4.174 ug/l
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040251.D
Acq: 22 Sep 2020 16:57

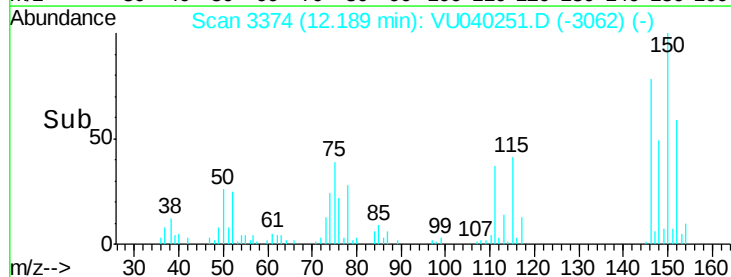
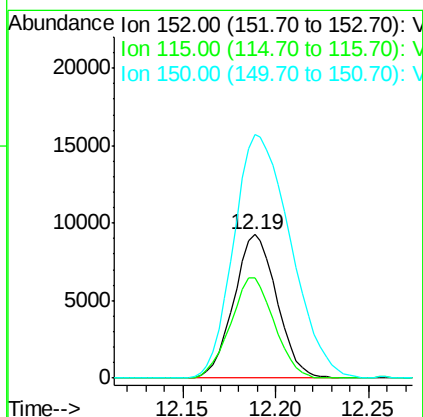
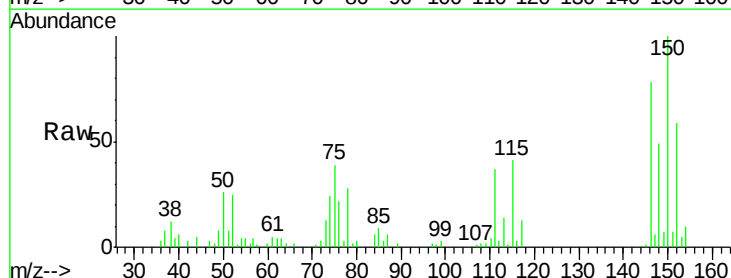
Instrument :
MSVOA_U
ClientSampleId :
38022-111319

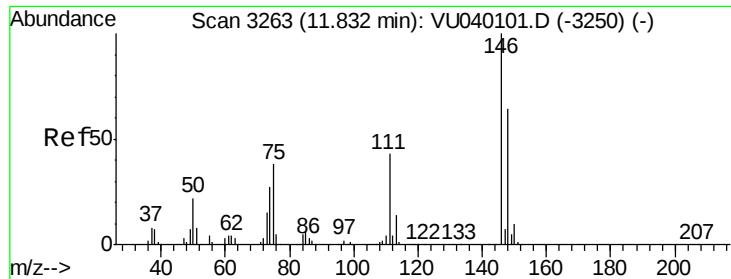
Tot Ion:104 Resp: 137769
Ion Ratio Lower Upper
104 100
78 59.1 43.9 65.9
103 58.9 43.7 65.5



#68
1,2-Dichlorobenzene-d4
Concen: 0.974 ug/l
RT: 12.19 min Scan# 3374
Delta R.T. 0.00 min
Lab File: VU040251.D
Acq: 22 Sep 2020 16:57

Tgt Ion:152 Resp: 14913
Ion Ratio Lower Upper
152 100
115 70.4 0.0 309.0
150 224.3 0.0 658.2





#83

1,4-Dichlorobenzene

Concen: 8.641 ug/l

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

38022-111319

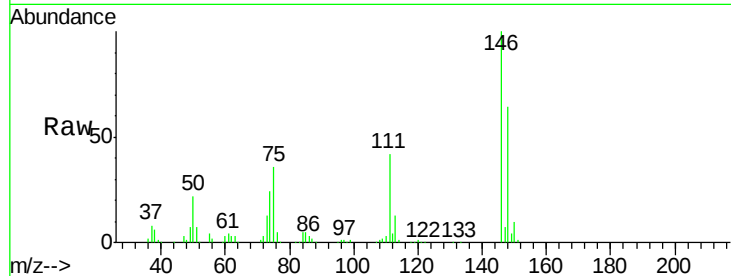
Tot Ion:146 Resp: 218145

Ion Ratio Lower Upper

146 100

111 41.4 34.2 51.2

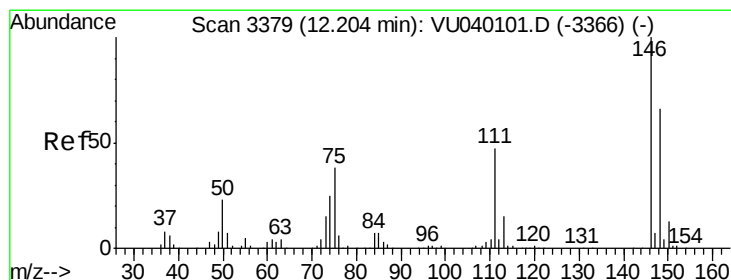
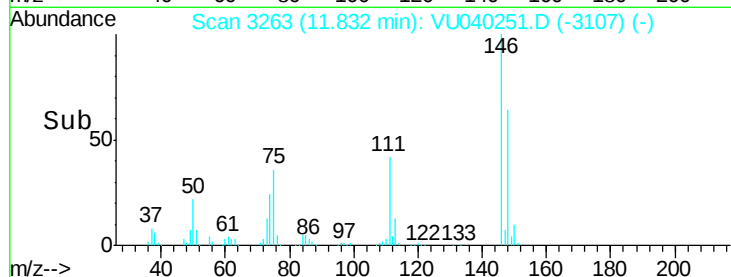
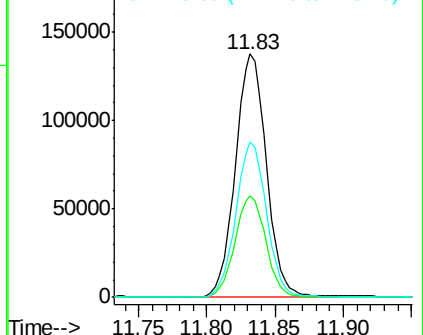
148 63.0 50.2 75.2



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



#85

1,2-Dichlorobenzene

Concen: 3.884 ug/l

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

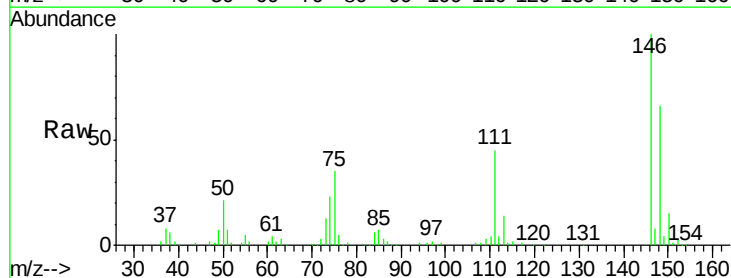
Tgt Ion:146 Resp: 93458

Ion Ratio Lower Upper

146 100

111 44.1 22.9 68.7

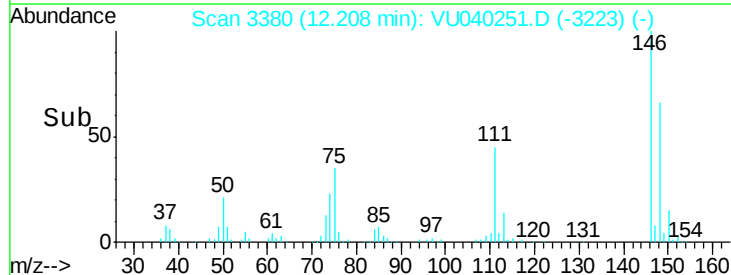
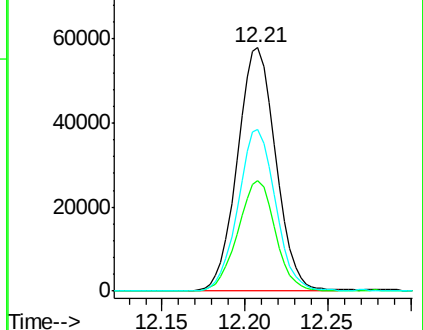
148 64.7 31.1 93.2

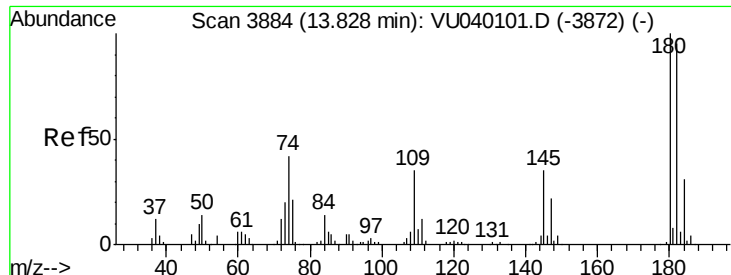


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#87

1,2,4-Trichlorobenzene

Concen: 9.984 ug/l

RT: 13.83 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VU040251.D

Acq: 22 Sep 2020 16:57

Instrument :

MSVOA_U

ClientSampleId :

38022-111319

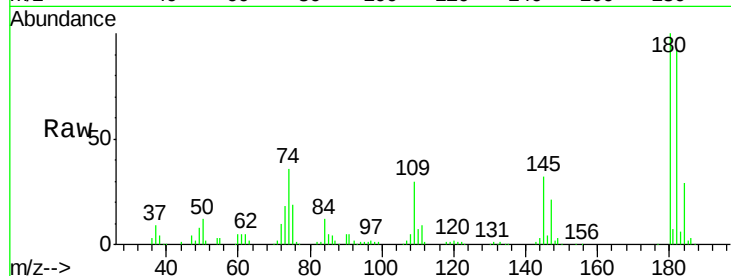
Tot Ion:180 Resp: 138068

Ion Ratio Lower Upper

180 100

182 94.9 75.0 112.4

145 33.2 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

