

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
 Data File : VU038144.D
 Acq On : 13 May 2020 15:30
 Operator : JC/MD
 Sample : L2630-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX10

Quant Time: May 14 02:00:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 14 01:11:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	358706	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	350964	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	180748	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	130576	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.93	69	123651	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.59	63	189377	3.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.00%
20) 2-Butanone-d5	4.67	46	479605	59.25	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.50%
24) Chloroform-d	5.10	84	229006	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.74	65	141312	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.76	84	500742	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.72	67	166878	4.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.40%
41) Toluene-d8	7.92	98	445758	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	8.20	79	63827	4.69	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.80%
46) 2-Hexanone-d5	8.65	63	392758	61.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	122.34%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	144553	5.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	174811	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	613143	15.827	ug/L	98
12) 1,1-Dichloroethene	2.61	96	38633	1.552	ug/L #	59
13) Acetone	2.66	43	5660	1.114	ug/L	87
18) trans-1,2-Dichloroethene	3.39	96	9921	0.365	ug/L	77
19) 1,1-Dichloroethane	3.91	63	569720	10.733	ug/L	100
22) cis-1,2-Dichloroethene	4.71	96	917114	31.315	ug/L #	100
29) 1,1,1-Trichloroethane	5.35	97	1343312	33.407	ug/L	99
30) Cyclohexane	5.43	56	907671	19.118	ug/L	99
33) Benzene	5.81	78	17405	0.155	ug/L	100
34) Trichloroethene	6.57	95	4101	0.146	ug/L	93
42) Toluene	7.99	91	4183051	35.258	ug/L	99
48) 2-Hexanone	8.71	43	46734	3.016	ug/L #	95
51) Chlorobenzene	9.47	112	960101	13.040	ug/L	98
52) Ethylbenzene	9.59	91	1043250	8.118	ug/L	100
53) m,p-Xylene	9.71	106	730398	14.822	ug/L	97
54) o-Xylene	10.11	106	379790	7.971	ug/L	98
56) Isopropylbenzene	10.50	105	334445	2.733	ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
Data File : VU038144.D
Acq On : 13 May 2020 15:30
Operator : JC/MD
Sample : L2630-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFX10

Quant Time: May 14 02:00:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 14 01:11:51 2020
Response via : Initial Calibration

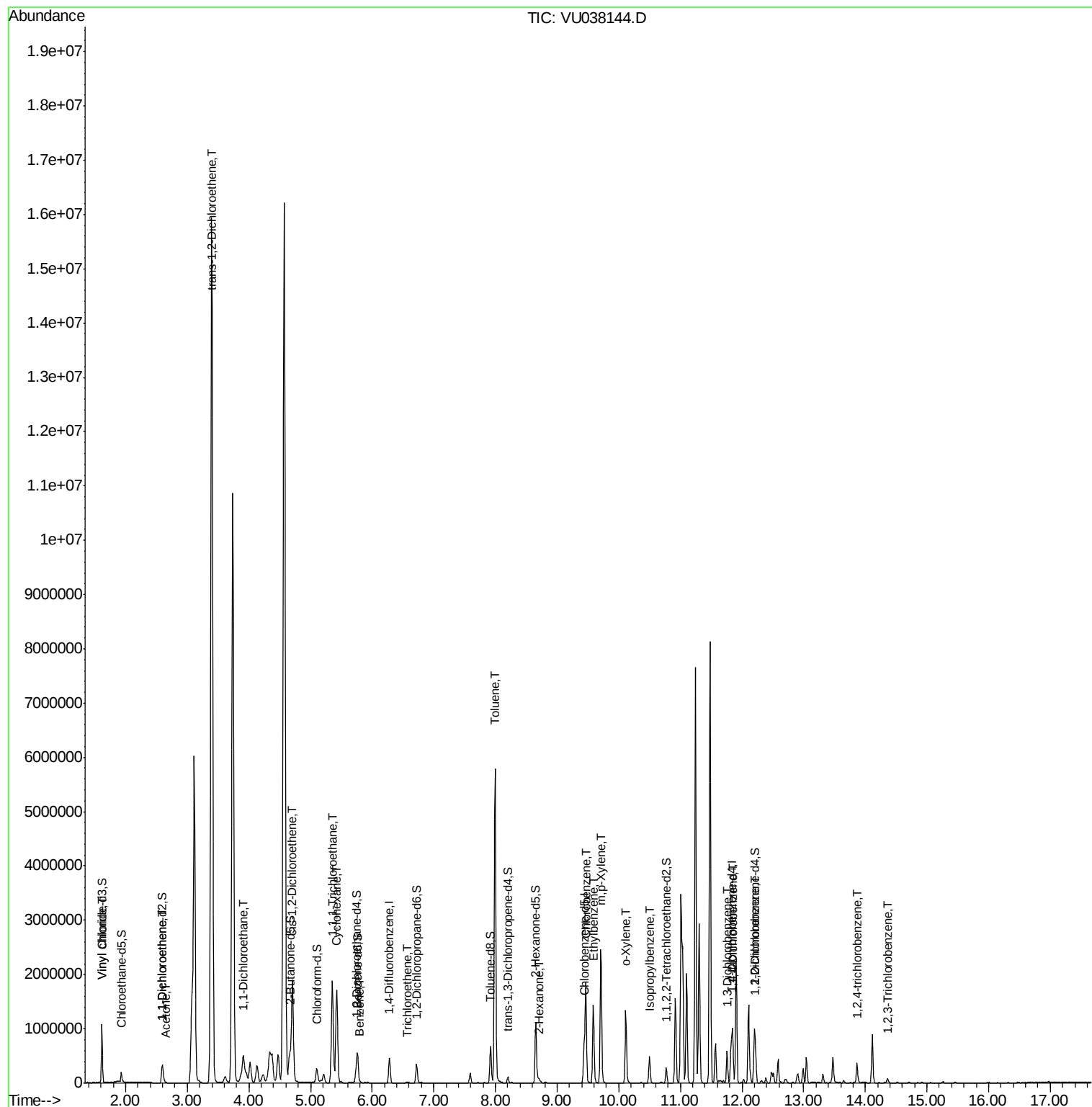
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.76	146	216171	3.676	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	373381	6.266	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	129759	2.293	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	97800	2.527	ug/L	98
70) 1,2,3-Trichlorobenzene	14.36	180	25294	0.703	ug/L	97

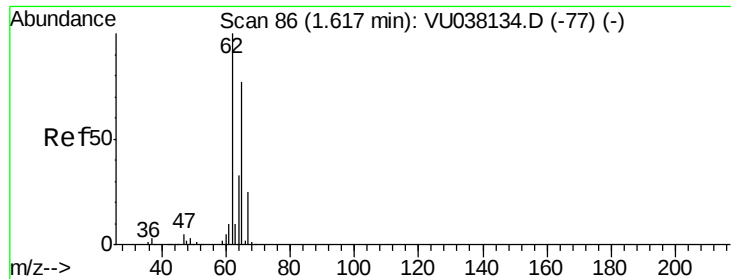
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
Data File : VU038144.D
Acq On : 13 May 2020 15:30
Operator : JC/MD
Sample : L2630-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFX10

Quant Time: May 14 02:00:37 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 14 01:11:51 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 15.827 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

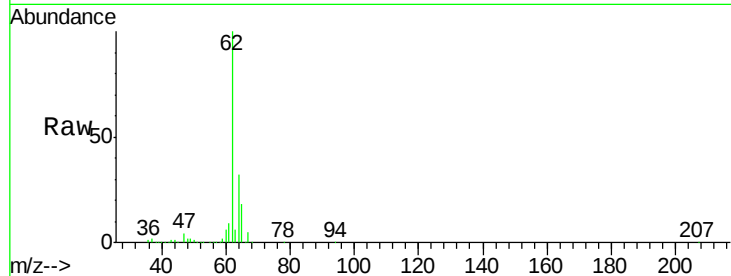
BFX10

Tot Ion: 62 Resp: 613143

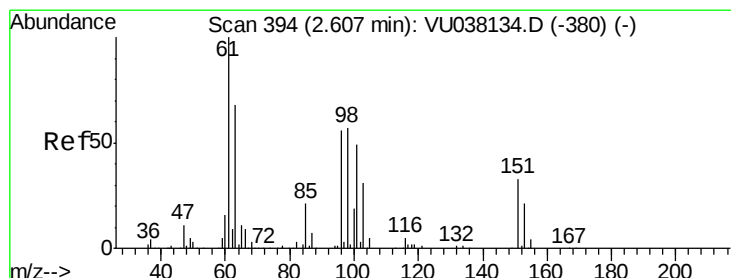
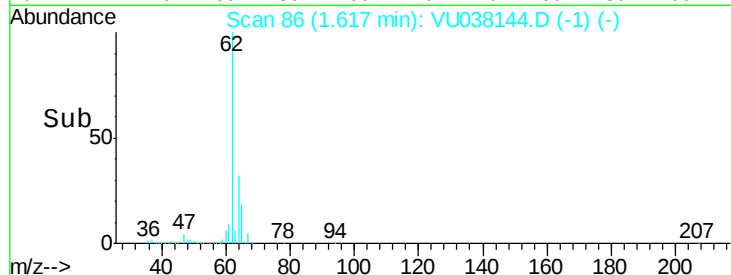
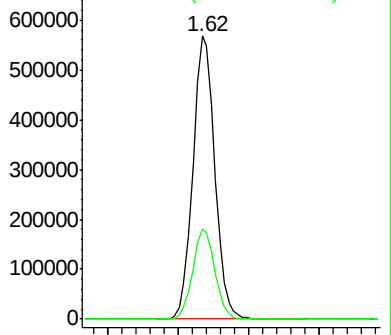
Ion Ratio Lower Upper

62 100

64 31.7 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU038144.D (-77) (-)



#12

1,1-Dichloroethene

Concen: 1.552 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

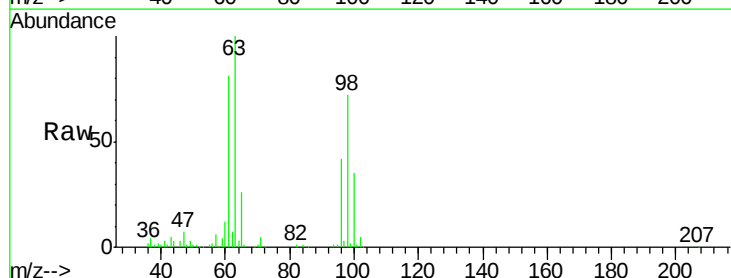
Tgt Ion: 96 Resp: 38633

Ion Ratio Lower Upper

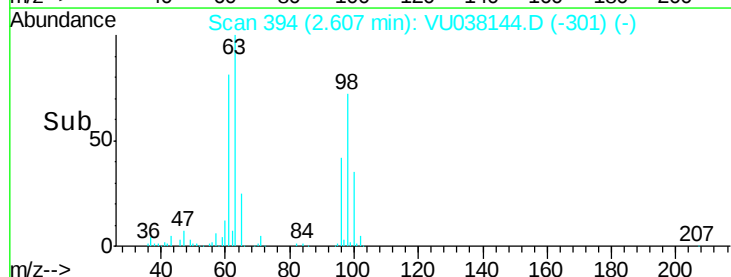
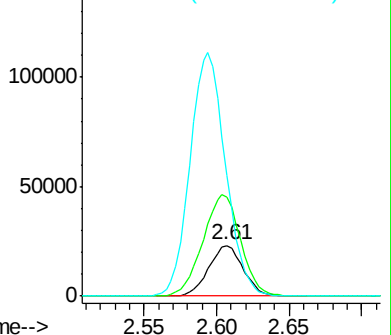
96 100

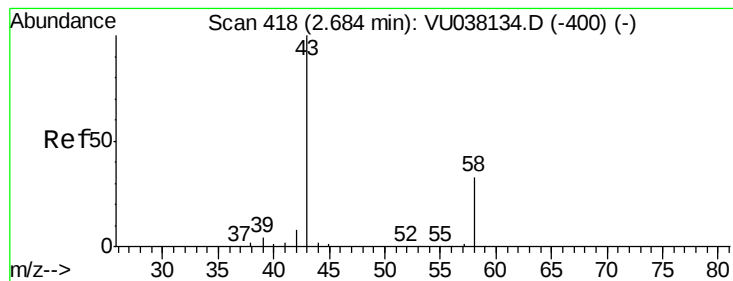
61 193.5 126.2 234.4

63 237.6 96.9 179.9#



Abundance Ion 96.00 (95.70 to 96.70): VU038144.D (-380) (-)





#13

Acetone

Concen: 1.114 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

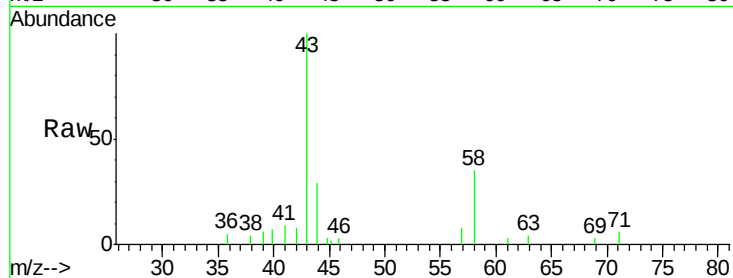
BFX10

Tot Ion: 43 Resp: 5660

Ion Ratio Lower Upper

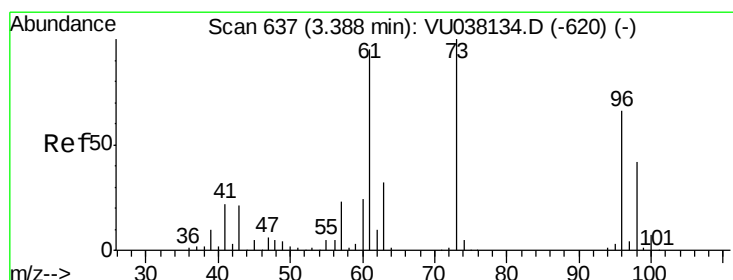
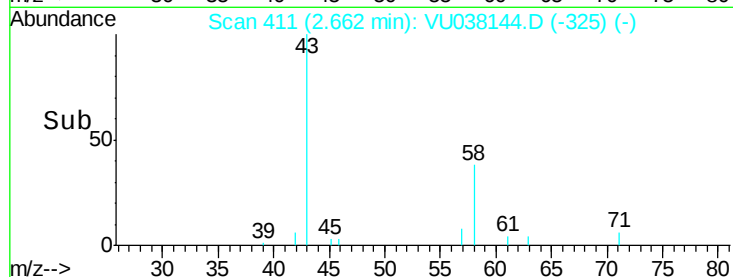
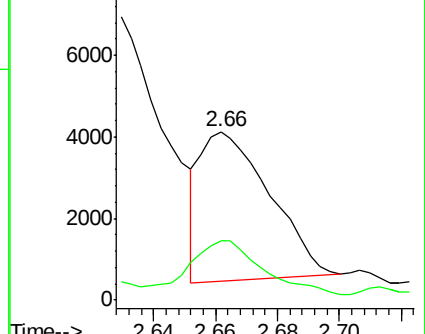
43 100

58 38.9 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#18

trans-1,2-Dichloroethene

Concen: 0.365 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

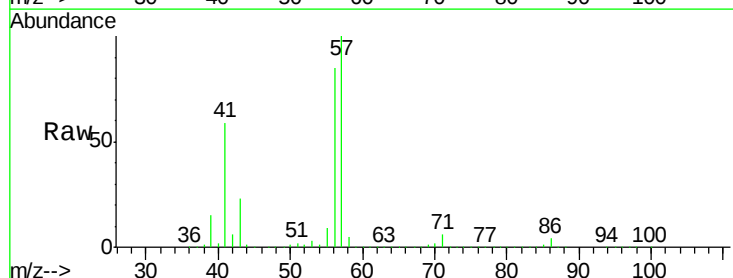
Tgt Ion: 96 Resp: 9921

Ion Ratio Lower Upper

96 100

61 180.9 102.1 189.5

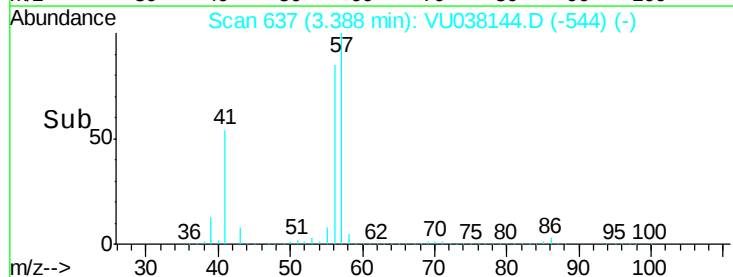
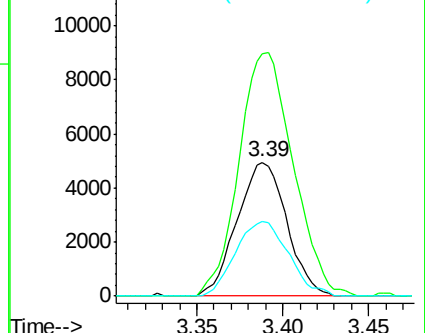
98 55.7 45.6 84.8

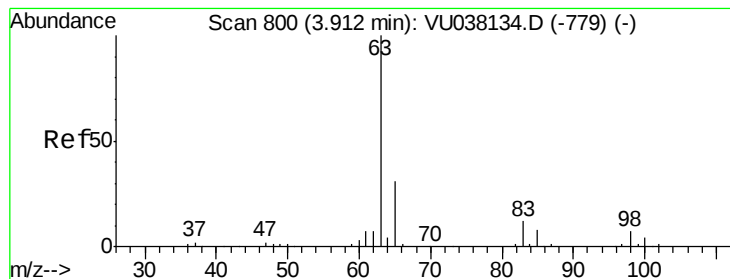


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 10.733 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

BFX10

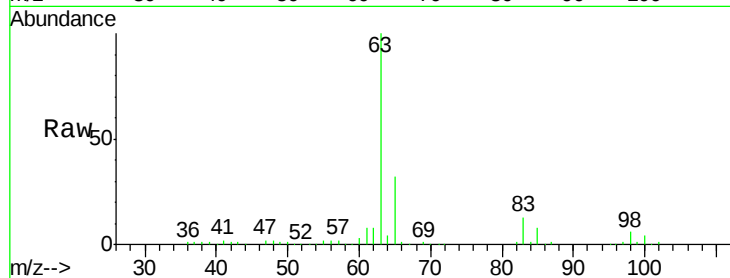
Tot Ion: 63 Resp: 569720

Ion Ratio Lower Upper

63 100

65 31.9 22.5 41.7

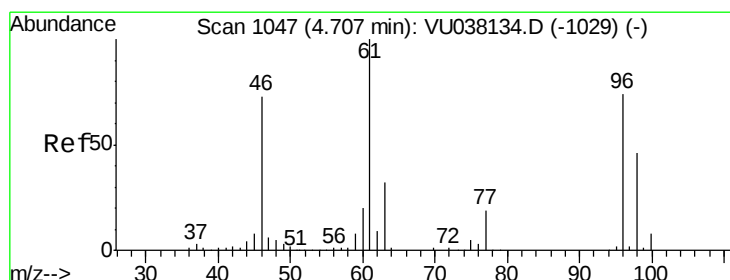
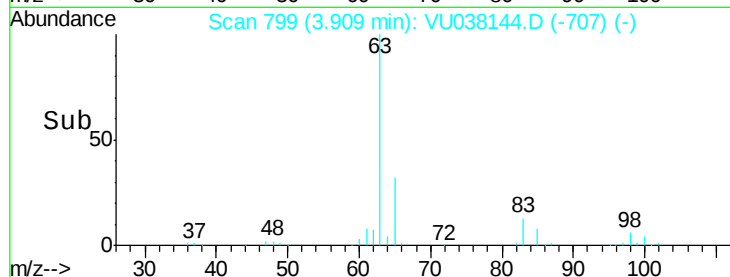
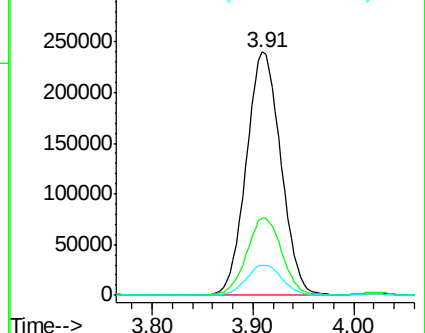
83 12.5 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU038144.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038144.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038144.D (-779) (-)



#22

cis-1,2-Dichloroethene

Concen: 31.315 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

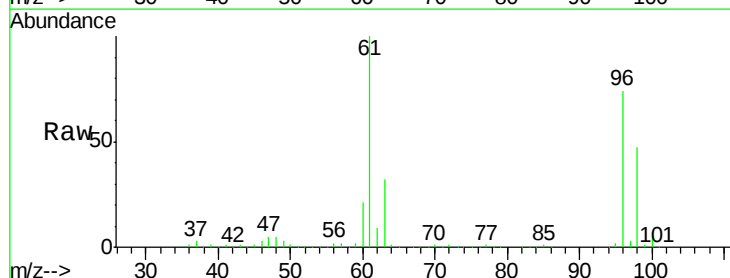
Tgt Ion: 96 Resp: 917114

Ion Ratio Lower Upper

96 100

61 136.0 95.3 176.9

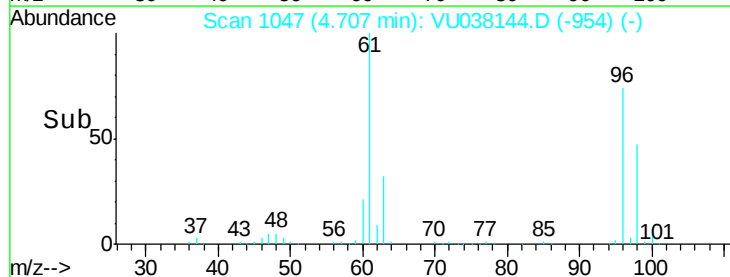
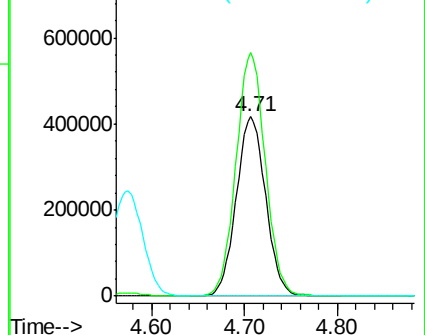
68 0.1 0.0 0.0#

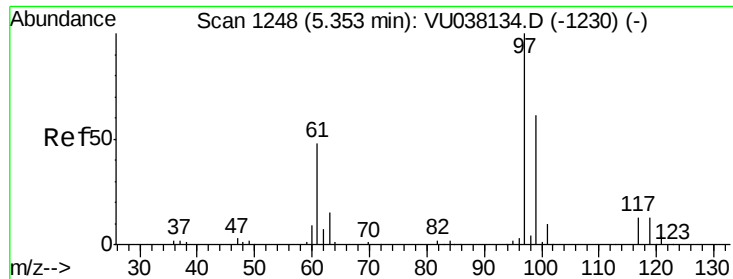


Abundance Ion 96.00 (95.70 to 96.70): VU038144.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU038144.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU038144.D (-954) (-)

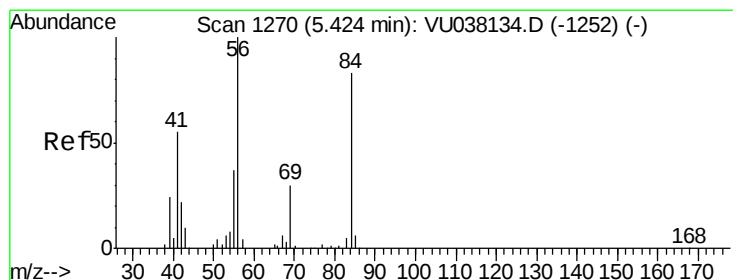
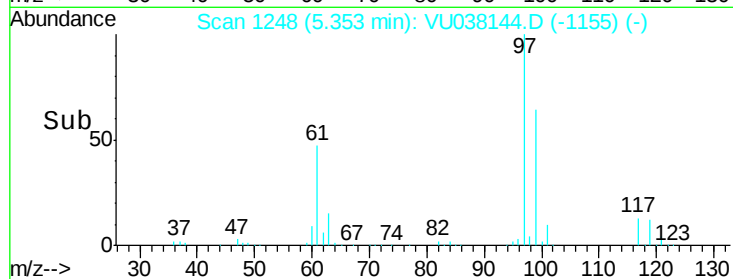
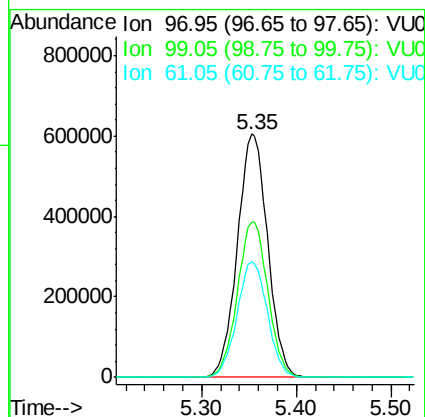
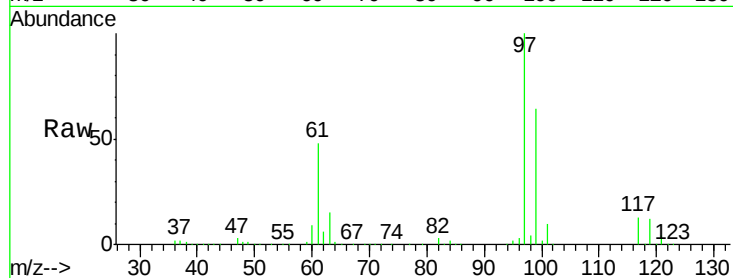




#29
 1,1,1-Trichloroethane
 Concen: 33.407 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038144.D
 Acq: 13 May 2020 15:30

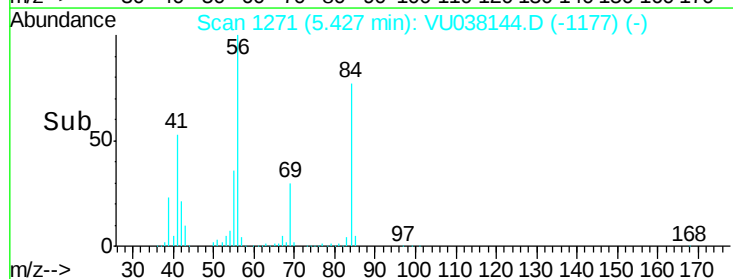
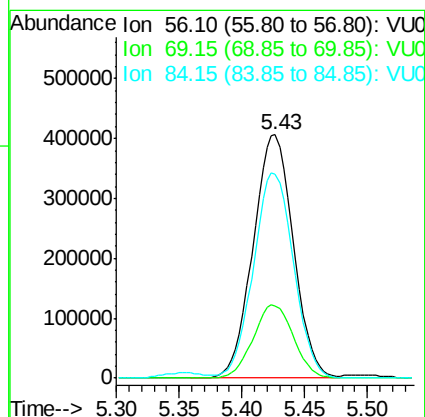
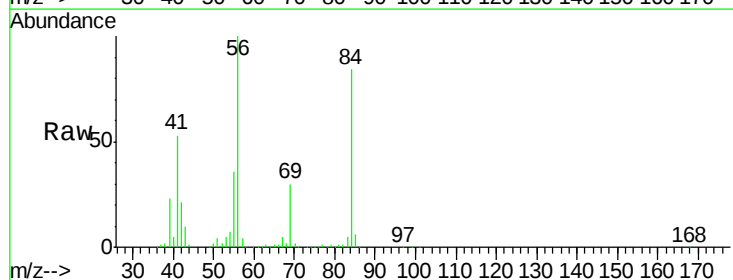
Instrument :
 MSVOA_U
 ClientSampleId :
 BFX10

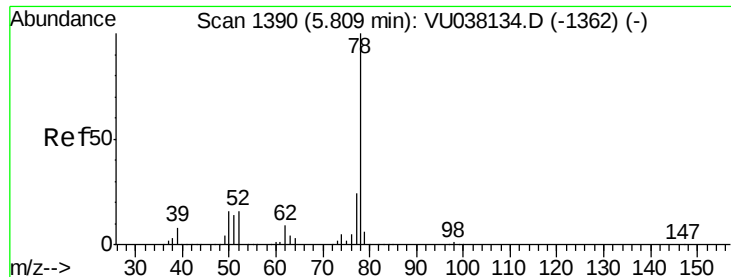
Tot Ion: 97 Resp: 1343312
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.4
 61 47.5 38.2 57.4



#30
 Cyclohexane
 Concen: 19.118 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU038144.D
 Acq: 13 May 2020 15:30

Tgt Ion: 56 Resp: 907671
 Ion Ratio Lower Upper
 56 100
 69 30.1 24.2 36.4
 84 84.4 68.5 102.7





#33

Benzene

Concen: 0.155 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

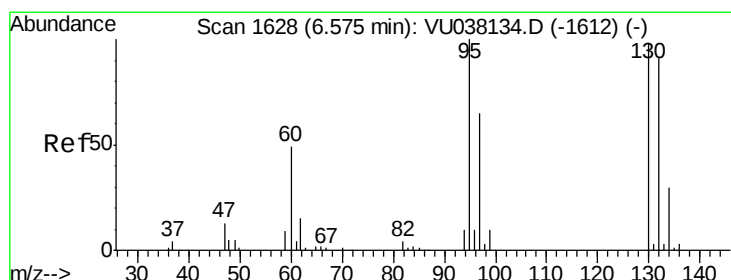
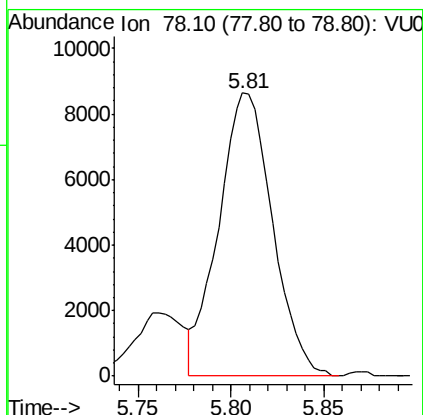
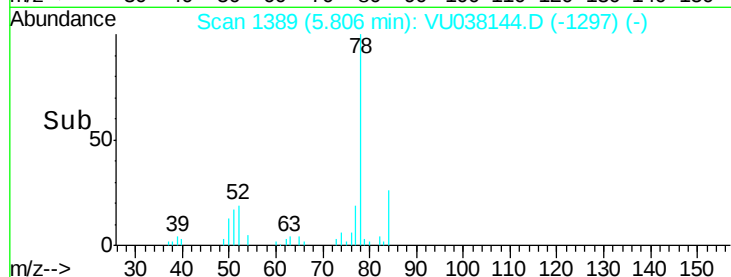
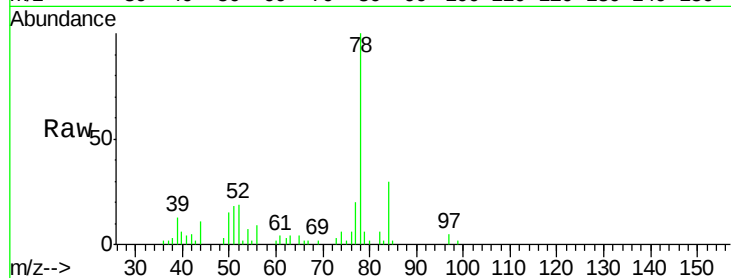
Instrument :

MSVOA_U

ClientSampleId :

BFX10

Tgt Ion: 78 Resp: 17405



#34

Trichloroethene

Concen: 0.146 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Tgt Ion: 95 Resp: 4101

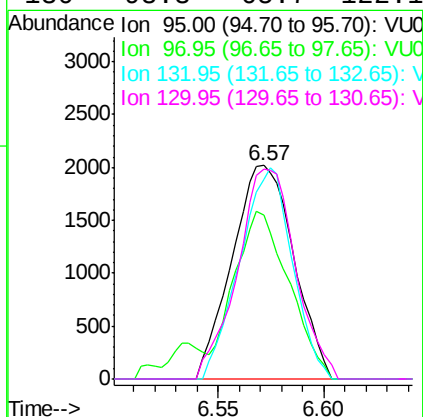
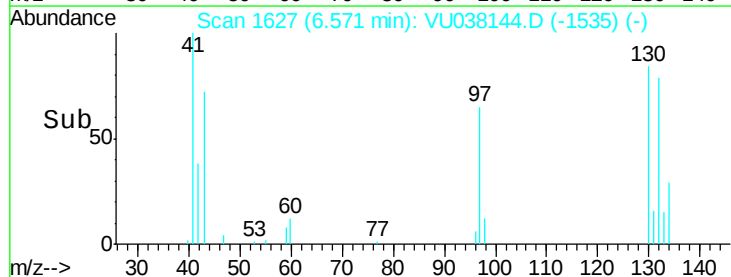
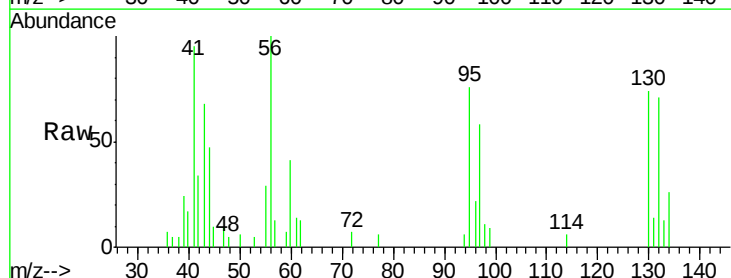
Ion	Ratio	Lower	Upper
95	100		
97	76.9	44.9	83.3
132	93.5	63.3	117.5
130	98.3	65.7	122.1

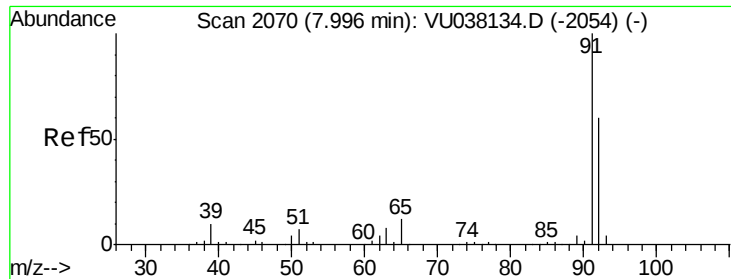
Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 35.258 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Instrument :

MSVOA_U

ClientSampled :

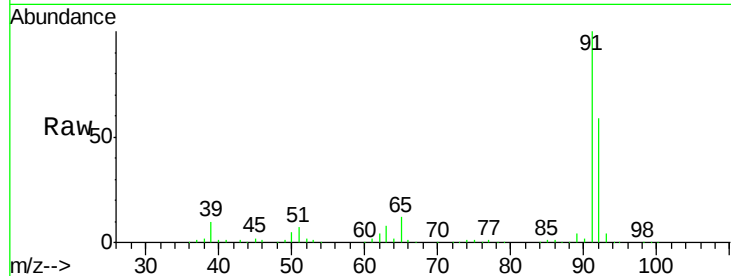
BFX10

Tot Ion: 91 Resp: 4183051

Ion Ratio Lower Upper

91 100

92 59.4 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038144.D (-1977) (-)

Ion 92.15 (91.85 to 92.85): VU038144.D (-1977) (-)

7.99

2500000

2000000

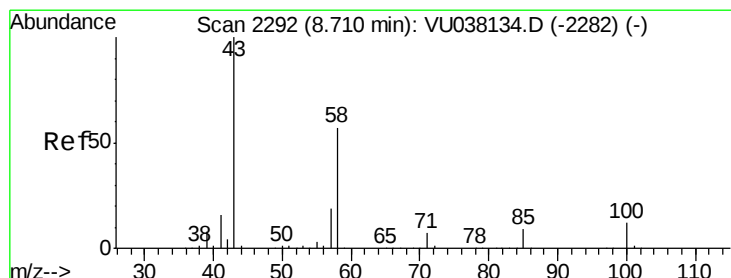
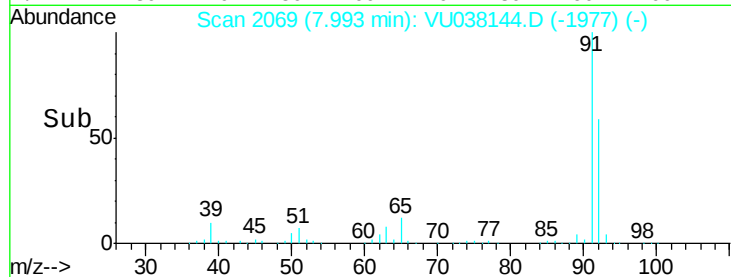
1500000

1000000

500000

0

Time-->



#48

2-Hexanone

Concen: 3.016 ug/L

RT: 8.71 min Scan# 2292

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Tgt Ion: 43 Resp: 46734

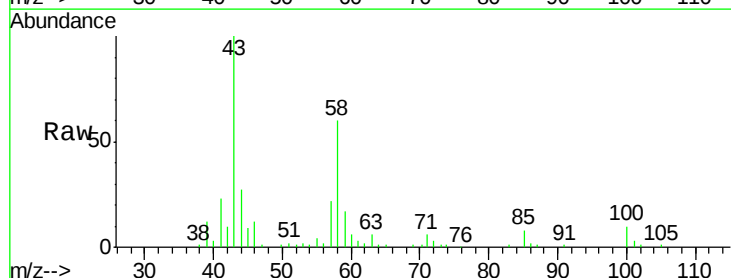
Ion Ratio Lower Upper

43 100

58 53.8 45.2 67.8

57 24.0 15.5 23.3#

100 10.6 9.5 14.3



Abundance Ion 43.05 (42.75 to 43.75): VU038144.D (-2199) (-)

Ion 58.05 (57.75 to 58.75): VU038144.D (-2199) (-)

Ion 57.20 (56.90 to 57.90): VU038144.D (-2199) (-)

Ion 100.15 (99.85 to 100.85): VU038144.D (-2199) (-)

40000

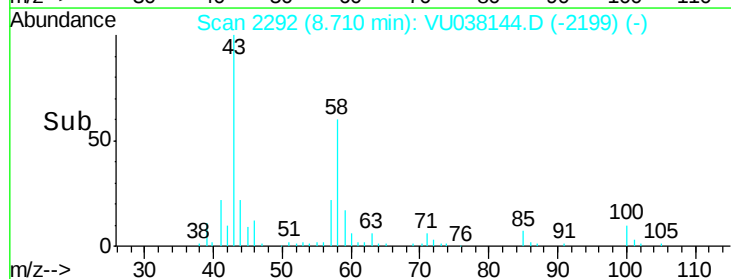
30000

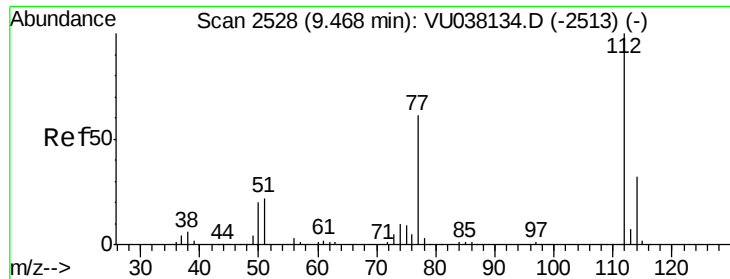
20000

10000

0

Time-->





#51

Chlorobenzene

Concen: 13.040 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

BFX10

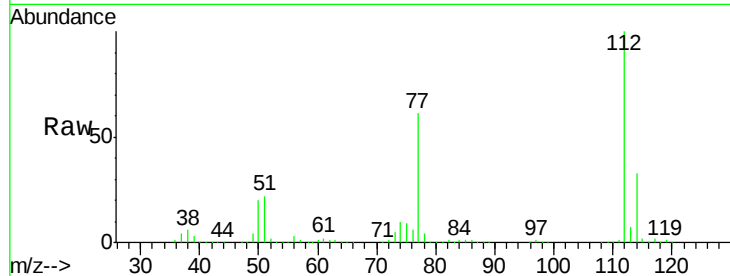
Tot Ion:112 Resp: 960101

Ion Ratio Lower Upper

112 100

114 32.6 22.5 41.7

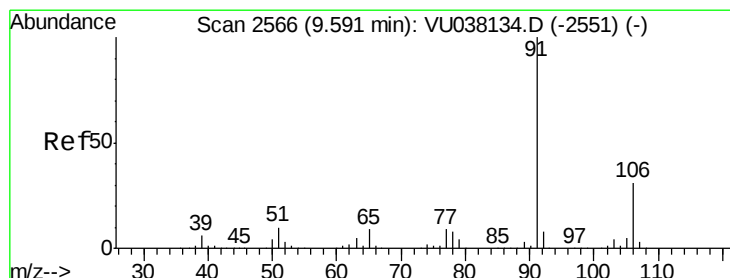
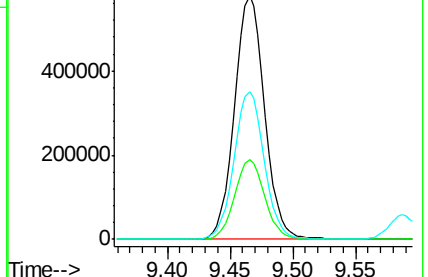
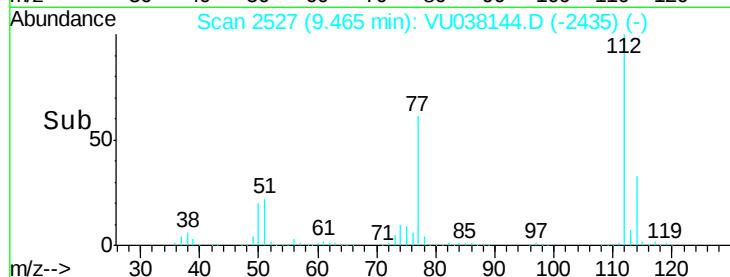
77 60.8 49.9 74.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0



#52

Ethylbenzene

Concen: 8.118 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038144.D

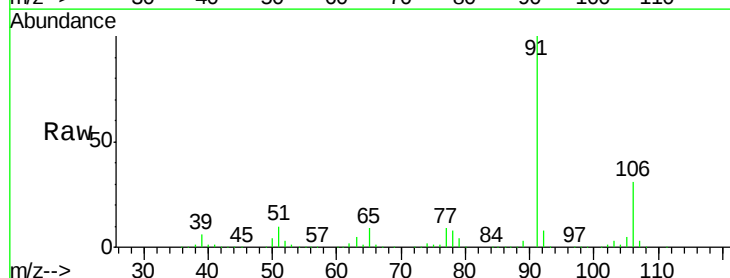
Acq: 13 May 2020 15:30

Tgt Ion: 91 Resp: 1043250

Ion Ratio Lower Upper

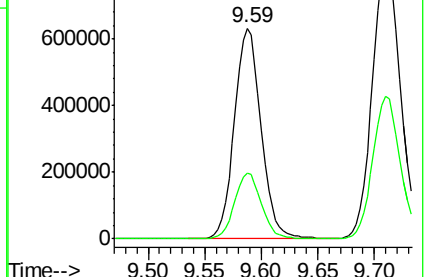
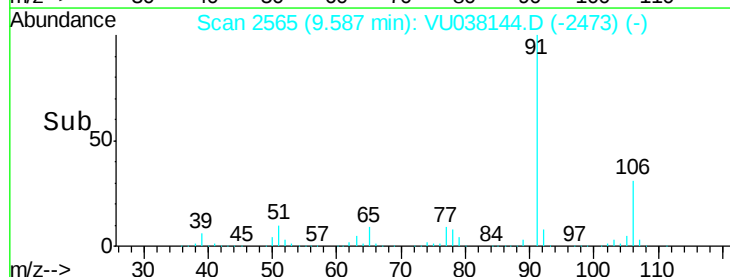
91 100

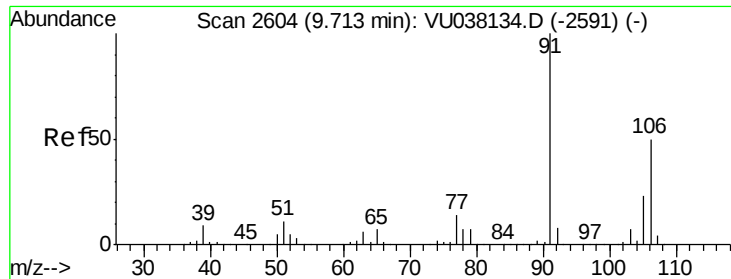
106 31.3 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

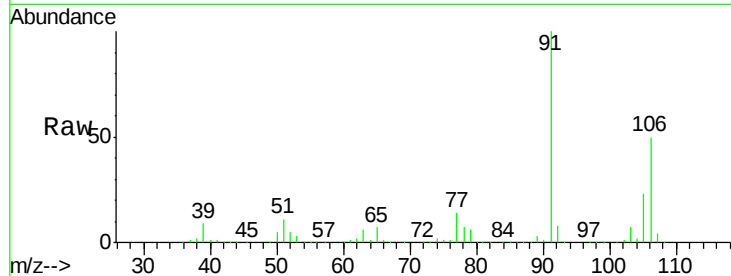




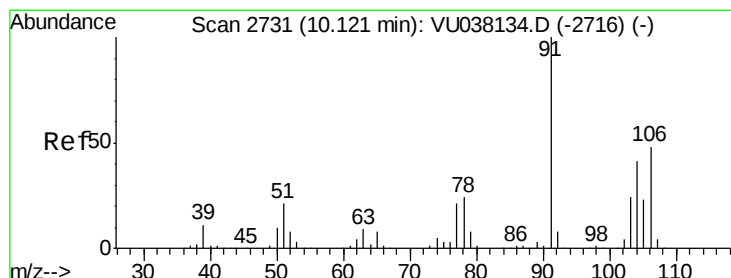
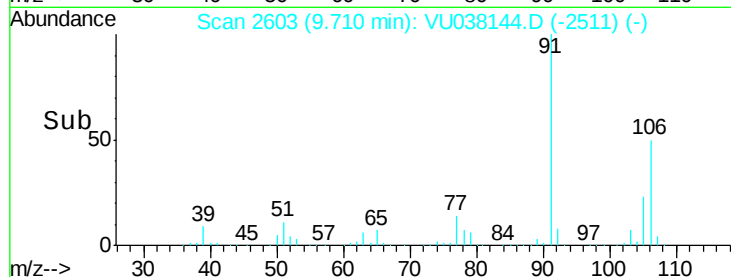
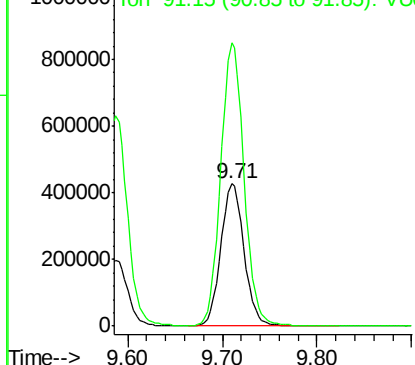
#53
m,p-Xylene
Concen: 14.822 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU038144.D
Acq: 13 May 2020 15:30

Instrument :
MSVOA_U
ClientSampled :
BFX10

Tot Ion:106 Resp: 730398
Ion Ratio Lower Upper
106 100
91 198.7 142.1 263.9

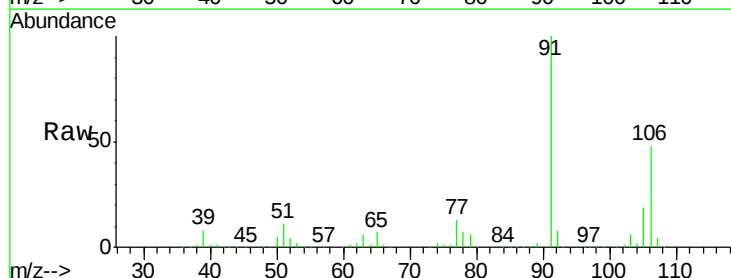


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

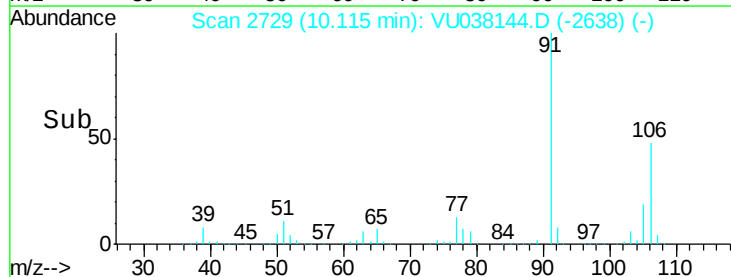
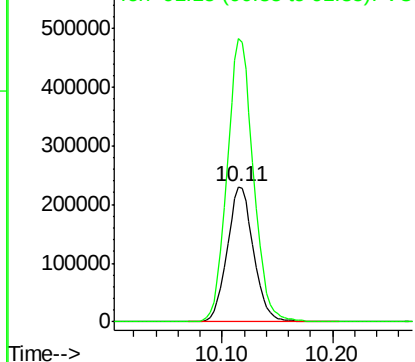


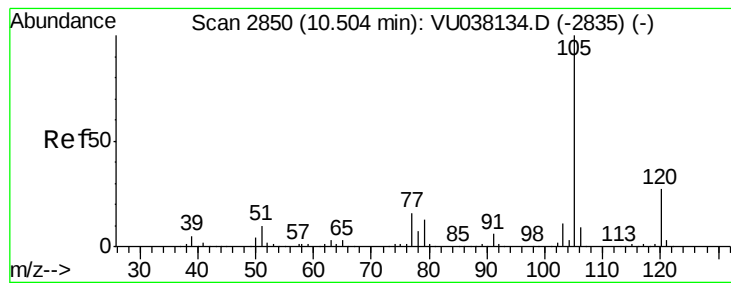
#54
o-Xylene
Concen: 7.971 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.01 min
Lab File: VU038144.D
Acq: 13 May 2020 15:30

Tgt Ion:106 Resp: 379790
Ion Ratio Lower Upper
106 100
91 209.2 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 2.733 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

Instrument :

MSVOA_U

ClientSampleId :

BFX10

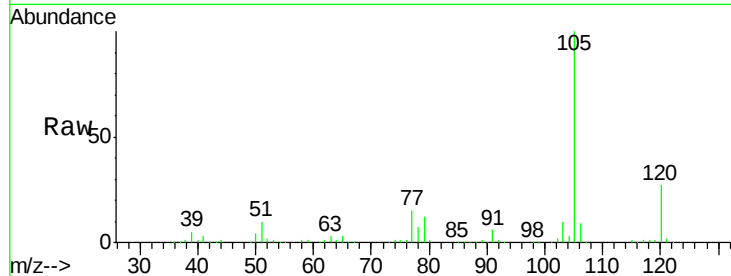
Tot Ion:105 Resp: 334445

Ion Ratio Lower Upper

105 100

120 26.8 21.0 31.6

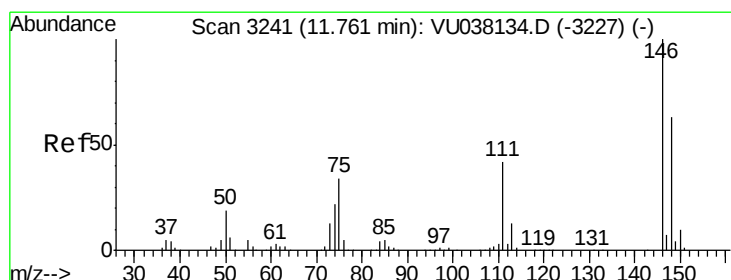
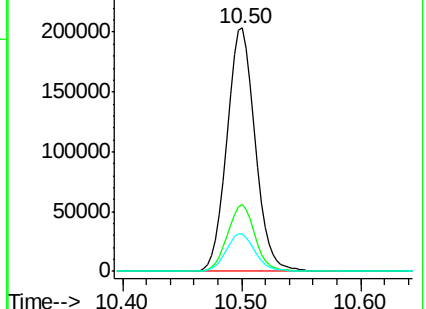
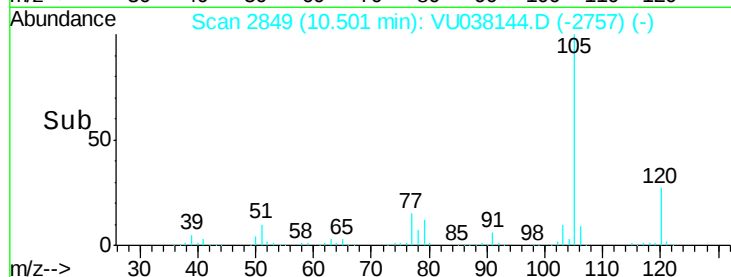
77 15.9 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#62

1,3-Dichlorobenzene

Concen: 3.676 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038144.D

Acq: 13 May 2020 15:30

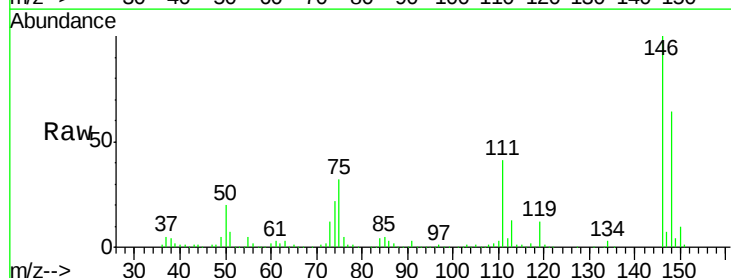
Tgt Ion:146 Resp: 216171

Ion Ratio Lower Upper

146 100

111 41.3 28.6 53.2

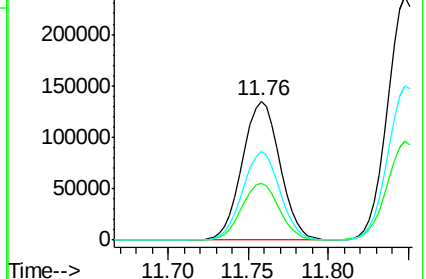
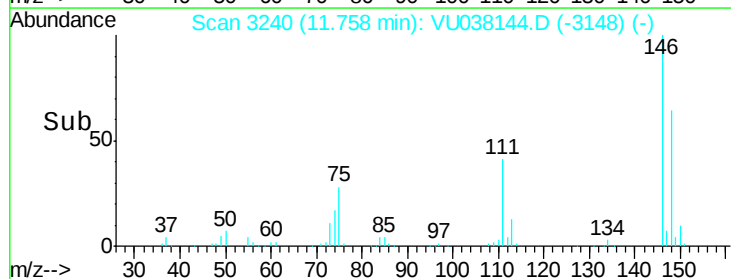
148 63.6 45.2 84.0

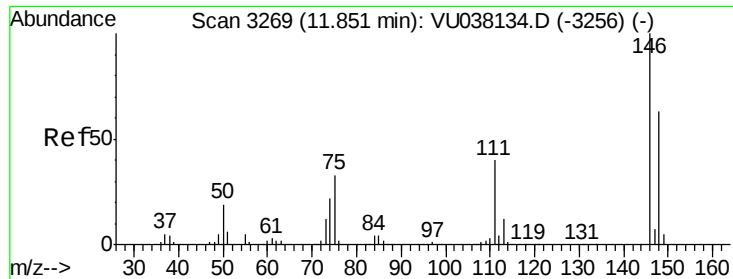


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

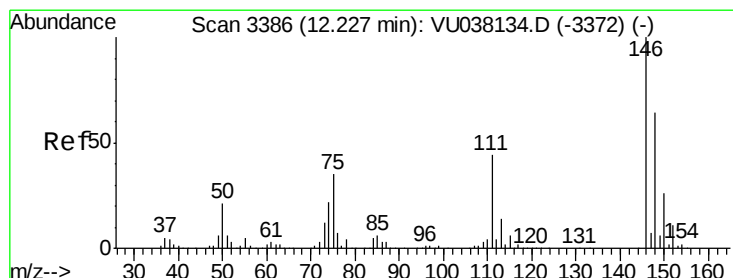
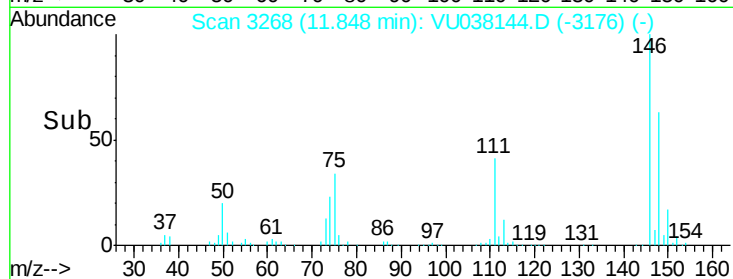
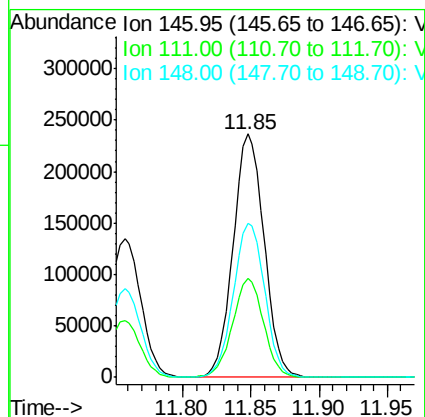
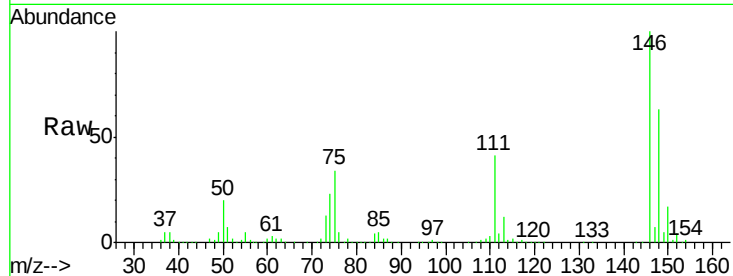




#63
 1,4-Dichlorobenzene
 Concen: 6.266 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038144.D
 Acq: 13 May 2020 15:30

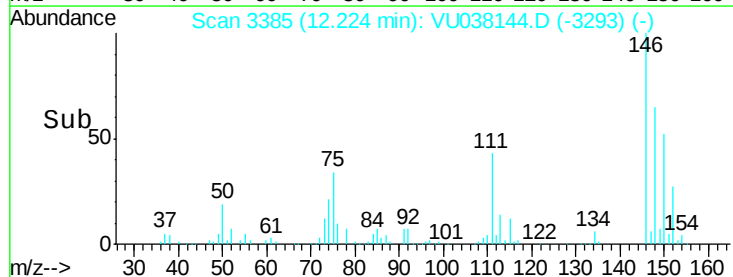
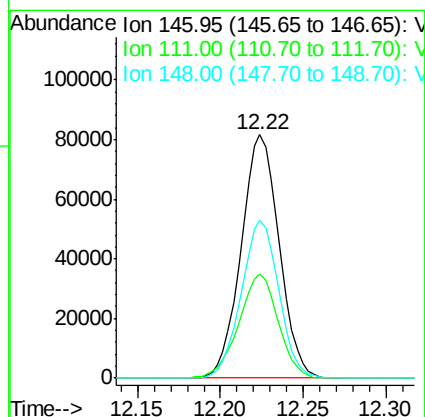
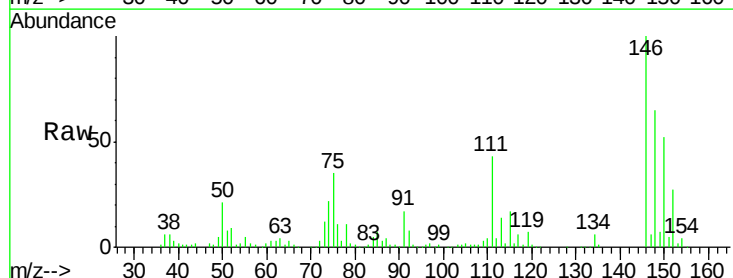
Instrument :
 MSVOA_U
 ClientSampled :
 BFX10

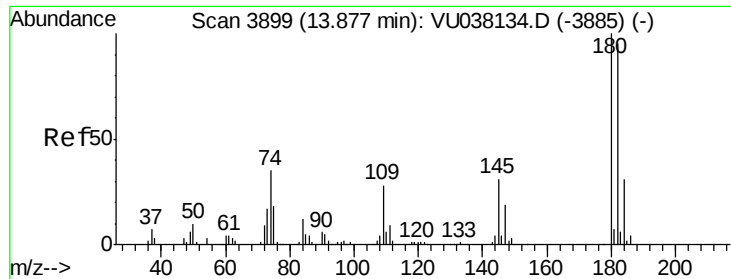
Tot Ion:146 Resp: 373381
 Ion Ratio Lower Upper
 146 100
 111 40.5 27.2 50.6
 148 63.5 43.8 81.3



#65
 1,2-Dichlorobenzene
 Concen: 2.293 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. -0.00 min
 Lab File: VU038144.D
 Acq: 13 May 2020 15:30

Tgt Ion:146 Resp: 129759
 Ion Ratio Lower Upper
 146 100
 111 42.6 35.3 52.9
 148 65.0 51.0 76.4

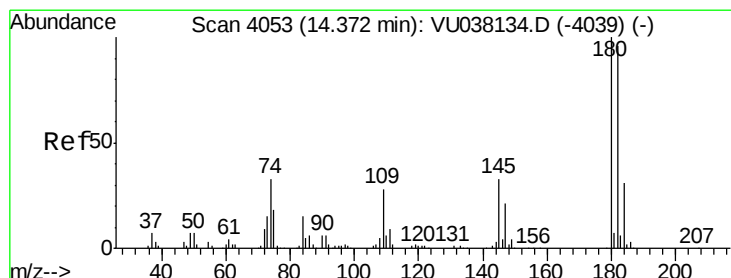
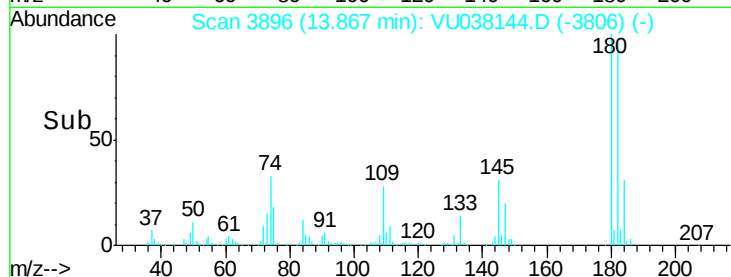
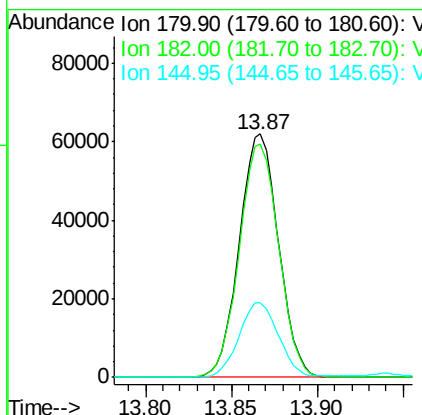
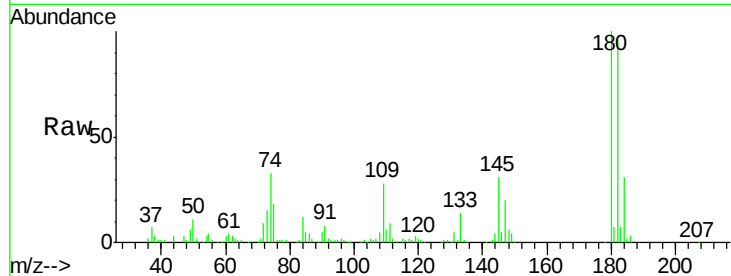




#68
 1,2,4-trichlorobenzene
 Concen: 2.527 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU038144.D
 Acq: 13 May 2020 15:30

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX10

Tot Ion:180 Resp: 97800
 Ion Ratio Lower Upper
 180 100
 182 96.6 75.0 112.6
 145 31.1 24.8 37.2



#70
 1,2,3-Trichlorobenzene
 Concen: 0.703 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU038144.D
 Acq: 13 May 2020 15:30

Tgt Ion:180 Resp: 25294
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.3 114.5
 145 38.3 26.1 39.1

