

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
 Data File : VU038182.D
 Acq On : 14 May 2020 20:10
 Operator : JC/MD
 Sample : L2630-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 15 01:10:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 15 01:05:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	338865	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	328410	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	160648	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	97388	3.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.80%
7) Chloroethane-d5	1.93	69	101446	3.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.60%
11) 1,1-Dichloroethene-d2	2.59	63	142578	2.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.00%#
20) 2-Butanone-d5	4.67	46	425692	55.66	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.32%
24) Chloroform-d	5.10	84	209506	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.00%
26) 1,2-Dichloroethane-d4	5.74	65	124854	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
32) Benzene-d6	5.76	84	425759	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
36) 1,2-Dichloropropane-d6	6.72	67	143880	4.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.60%
41) Toluene-d8	7.92	98	367149	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.00%
43) trans-1,3-Dichloropropene-	8.20	79	50867	4.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.00%
46) 2-Hexanone-d5	8.65	63	346752	57.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.42%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	122757	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	140481	4.49	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	68986	1.885	ug/L	98
12) 1,1-Dichloroethene	2.61	96	10625	0.452	ug/L #	1
13) Acetone	2.66	43	4307	0.898	ug/L	84
15) Methyl Acetate	3.07	43	12306	0.917	ug/L #	53
18) trans-1,2-Dichloroethene	3.38	96	3369	0.131	ug/L	95
19) 1,1-Dichloroethane	3.91	63	54195	1.081	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	313641	11.336	ug/L	100
25) Chloroform	5.13	83	173099	3.701	ug/L	96
29) 1,1,1-Trichloroethane	5.35	97	90256	2.399	ug/L	97
30) Cyclohexane	5.43	56	7892	0.178	ug/L	96
31) Carbon tetrachloride	5.35	117	11565	0.382	ug/L	97
34) Trichloroethene	6.57	95	13216	0.502	ug/L	99
35) Methylcyclohexane	6.72	83	31914	0.749	ug/L #	16
37) 1,2-Dichloropropane	6.72	63	14890	0.521	ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	3377	0.083	ug/L #	74
48) 2-Hexanone	8.71	43	25101	1.731	ug/L	94
51) Chlorobenzene	9.47	112	41181	0.598	ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
Data File : VU038182.D
Acq On : 14 May 2020 20:10
Operator : JC/MD
Sample : L2630-03
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: May 15 01:10:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration

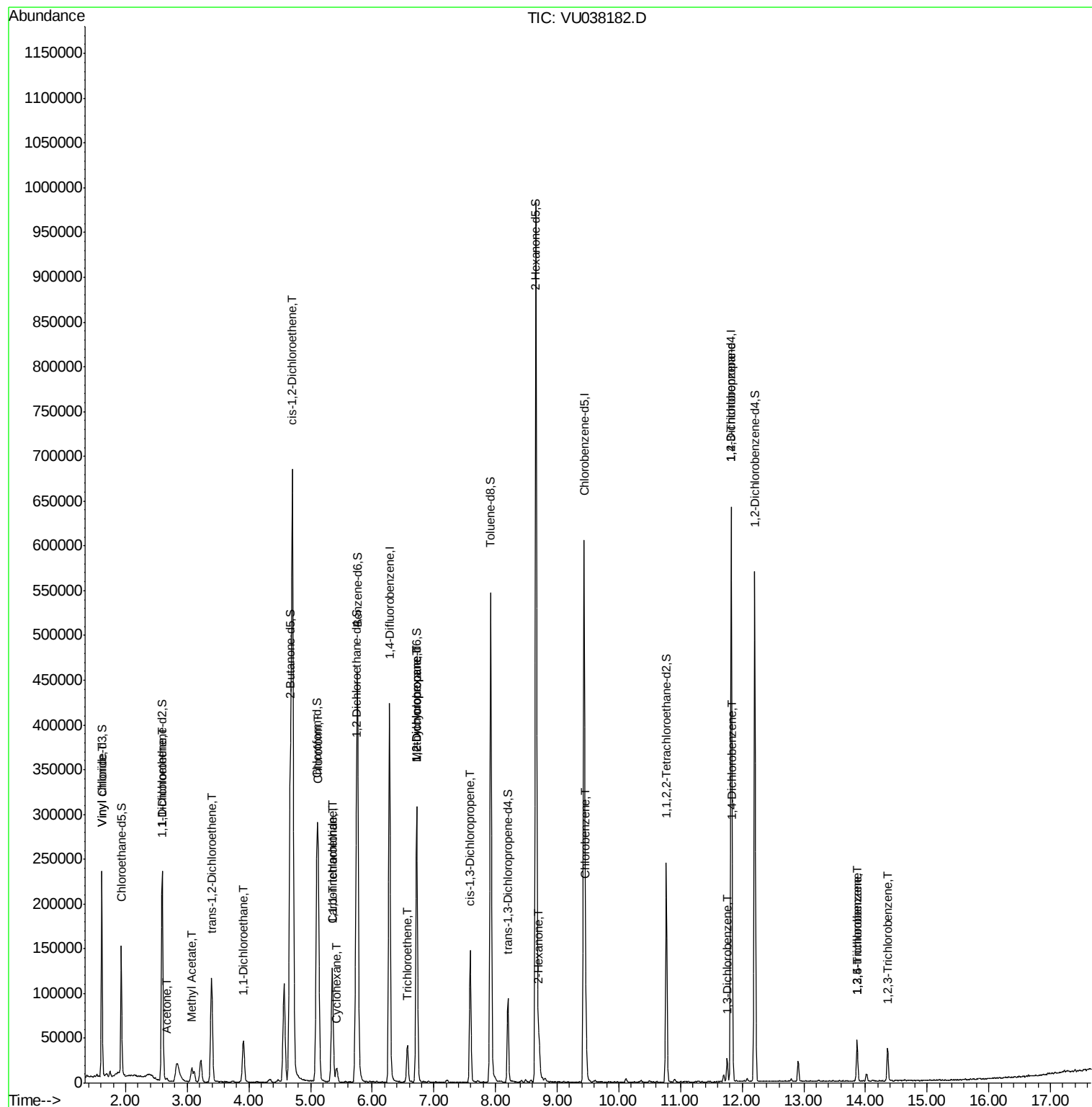
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.82	75	24326	1.269	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	9722	0.186	ug/L	89
63) 1,4-Dichlorobenzene	11.85	146	9331	0.176	ug/L	97
67) 1,3,5-Trichlorobenzene	13.86	180	12623	0.333	ug/L	95
68) 1,2,4-trichlorobenzene	13.86	180	12623	0.367	ug/L	93
70) 1,2,3-Trichlorobenzene	14.36	180	11121	0.348	ug/L	98

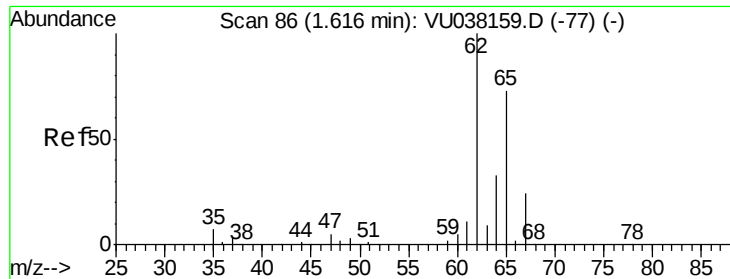
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051420\
Data File : VU038182.D
Acq On : 14 May 2020 20:10
Operator : JC/MD
Sample : L2630-03
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: May 15 01:10:13 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 15 01:05:40 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.885 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_U

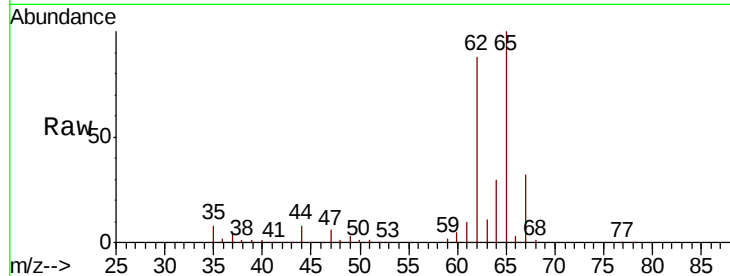
ClientSampleId :

Tot Ion: 62 Resp: 68986

Ion Ratio Lower Upper

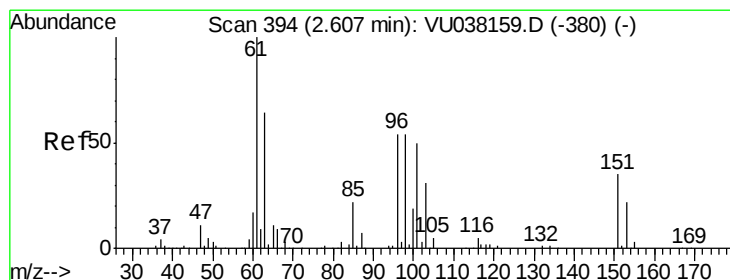
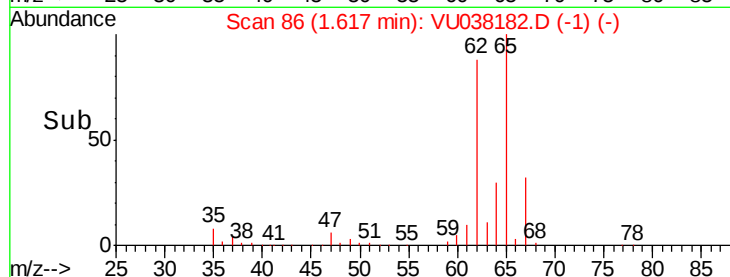
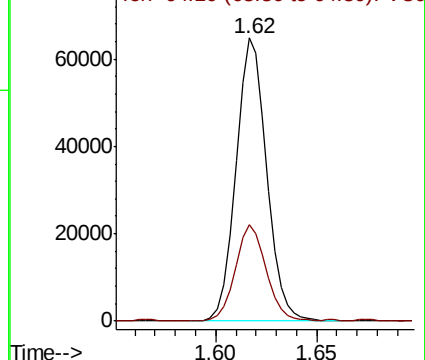
62 100

64 34.0 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#12

1,1-Dichloroethene

Concen: 0.452 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

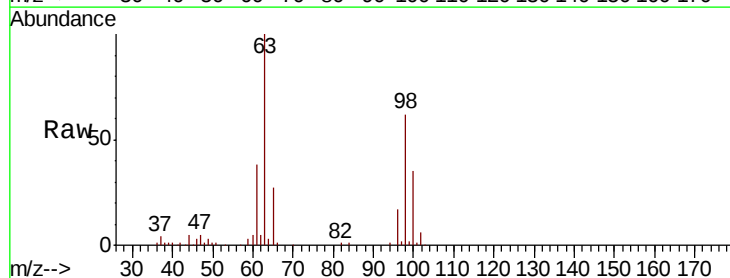
Tgt Ion: 96 Resp: 10625

Ion Ratio Lower Upper

96 100

61 214.7 126.2 234.4

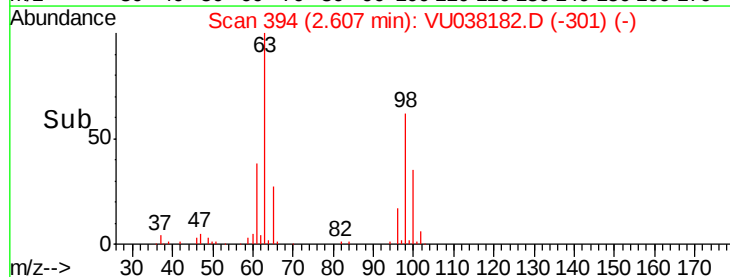
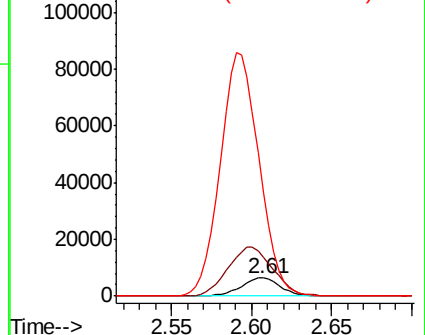
63 572.4 96.9 179.9#

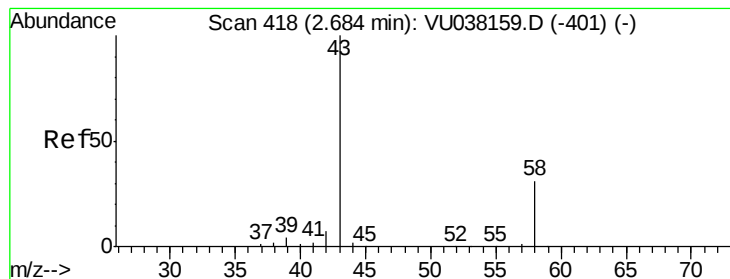


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.898 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_U

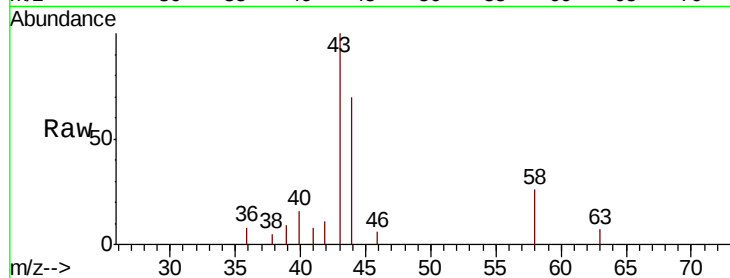
ClientSampleId :

Tot Ion: 43 Resp: 4307

Ion Ratio Lower Upper

43 100

58 23.1 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038182.D (-411) (-)

Ion 58.05 (57.75 to 58.75): VU038182.D (-411) (-)

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

2.66

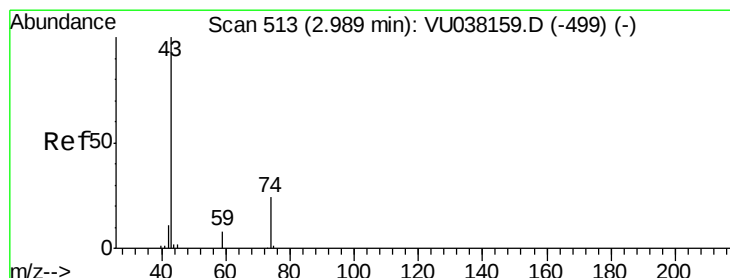
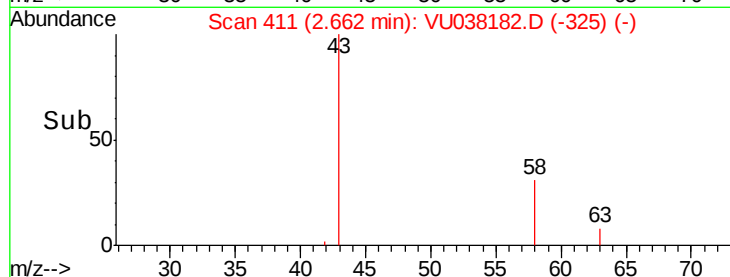
2.66

2.66

2.66

2.66

2.66



#15

Methyl Acetate

Concen: 0.917 ug/L

RT: 3.07 min Scan# 539

Delta R.T. 0.08 min

Lab File: VU038182.D

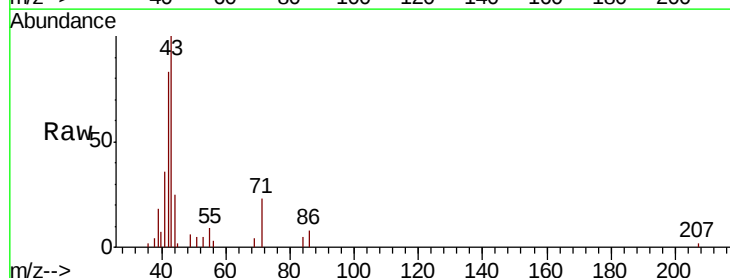
Acq: 14 May 2020 20:10

Tgt Ion: 43 Resp: 12306

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#



Abundance Ion 43.05 (42.75 to 43.75): VU038182.D (-511) (-)

Ion 74.05 (73.75 to 74.75): VU038182.D (-511) (-)

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

3.07

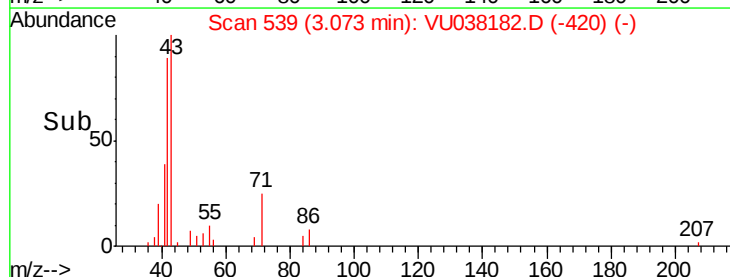
3.07

3.07

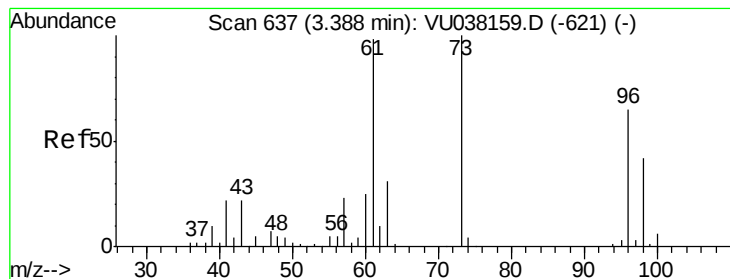
3.07

3.07

3.07



Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.131 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

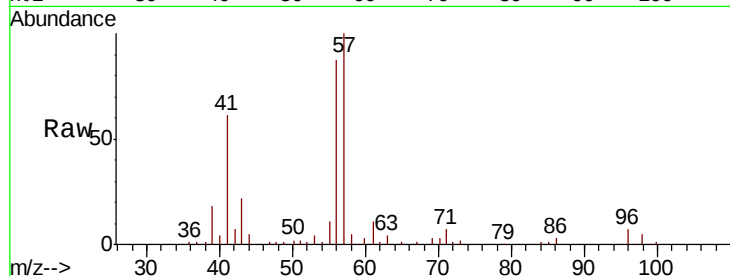
Tot Ion: 96 Resp: 3369

Ion Ratio Lower Upper

96 100

61 148.9 102.1 189.5

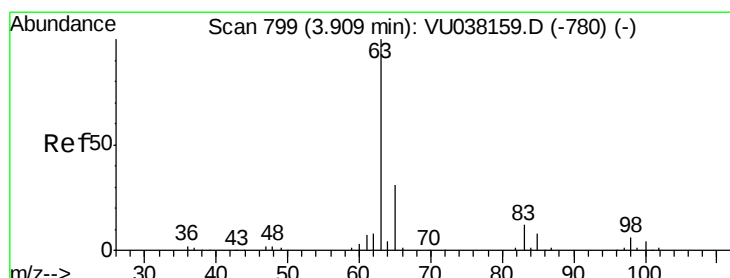
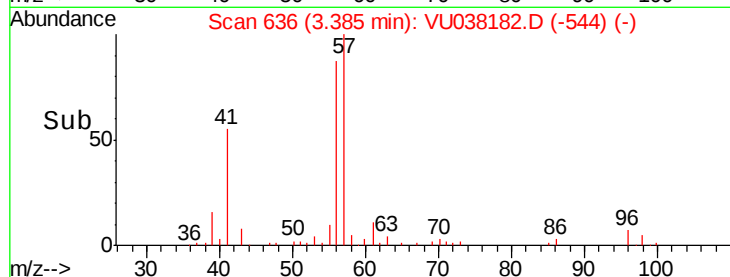
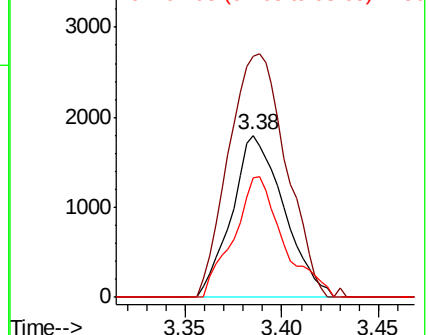
98 73.5 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU038182.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU038182.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU038182.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 1.081 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

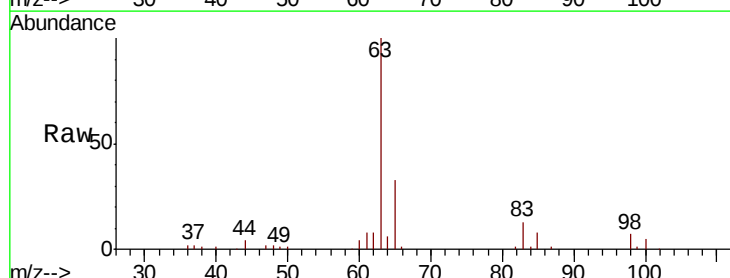
Tgt Ion: 63 Resp: 54195

Ion Ratio Lower Upper

63 100

65 32.6 22.5 41.7

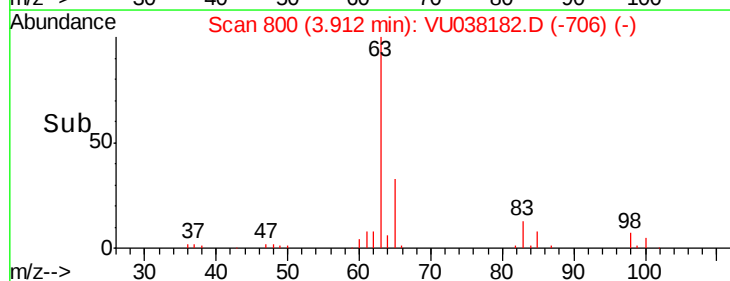
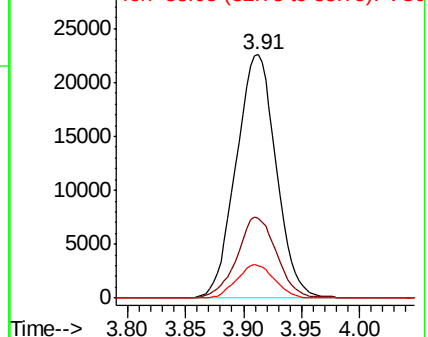
83 13.2 8.9 16.5

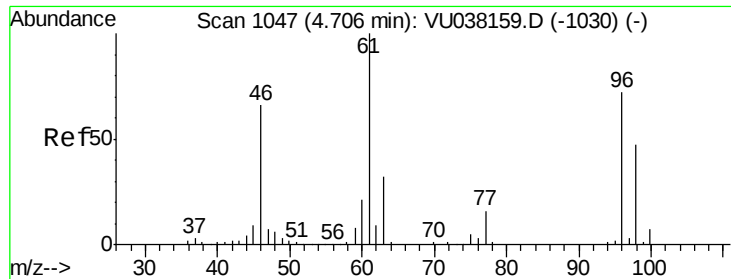


Abundance Ion 63.10 (62.80 to 63.80): VU038182.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU038182.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU038182.D (-706) (-)





#22

cis-1,2-Dichloroethene

Concen: 11.336 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

Instrument :
MSVOA_U
ClientSampled :

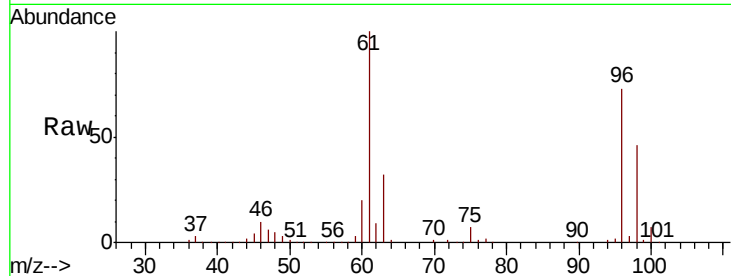
Tot Ion: 96 Resp: 313641

Ion Ratio Lower Upper

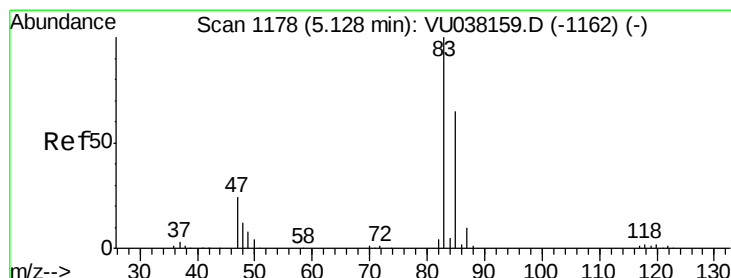
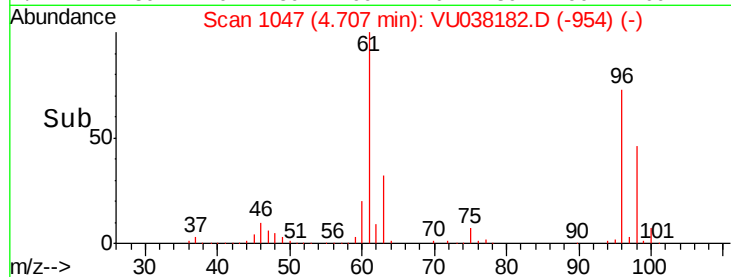
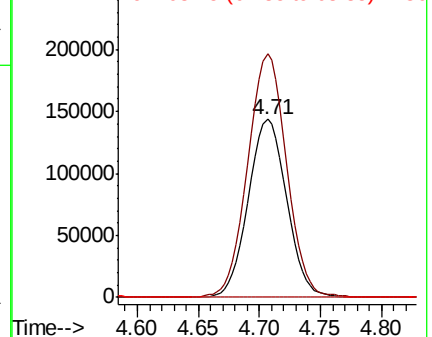
96 100

61 136.6 95.3 176.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 3.701 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU038182.D

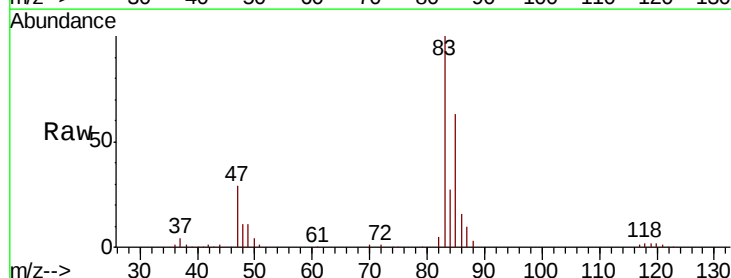
Acq: 14 May 2020 20:10

Tgt Ion: 83 Resp: 173099

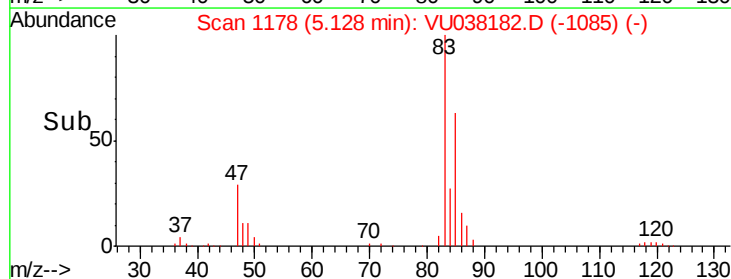
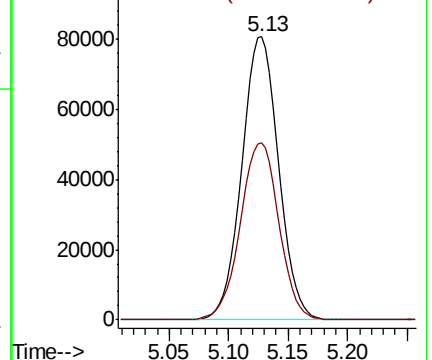
Ion Ratio Lower Upper

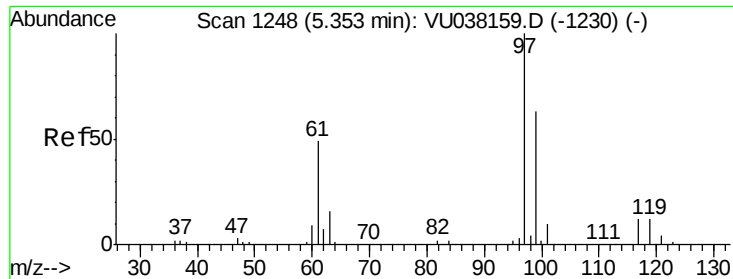
83 100

85 62.8 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

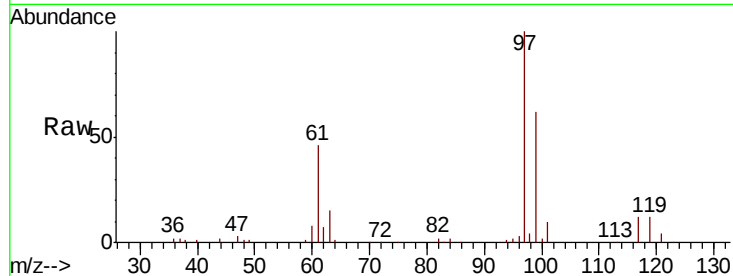




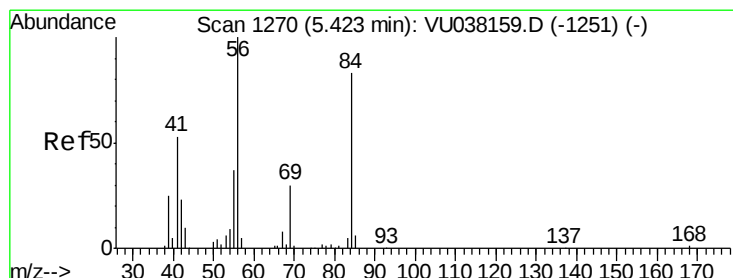
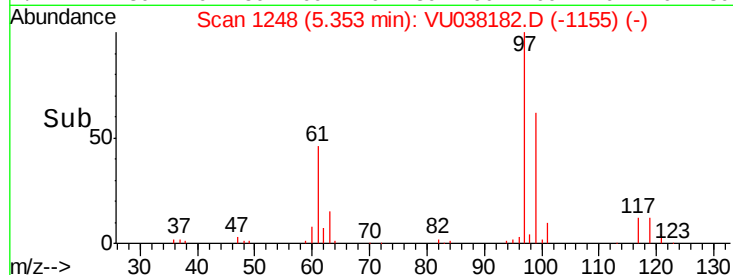
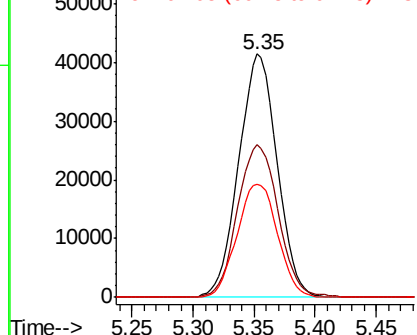
#29
1,1,1-Trichloroethane
Concen: 2.399 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038182.D
Acq: 14 May 2020 20:10

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 90256
Ion Ratio Lower Upper
97 100
99 66.5 51.0 76.4
61 49.0 38.2 57.4

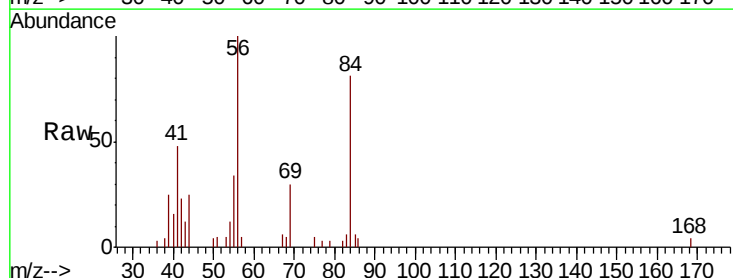


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

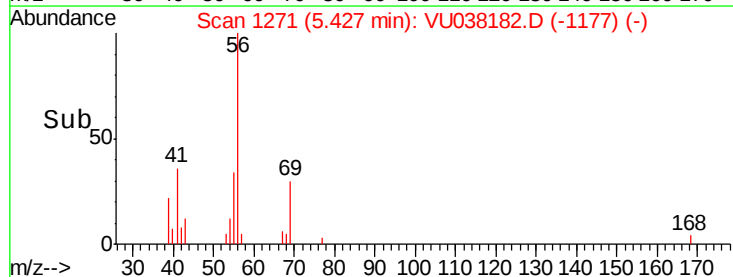
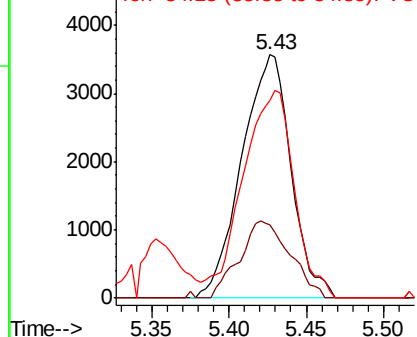


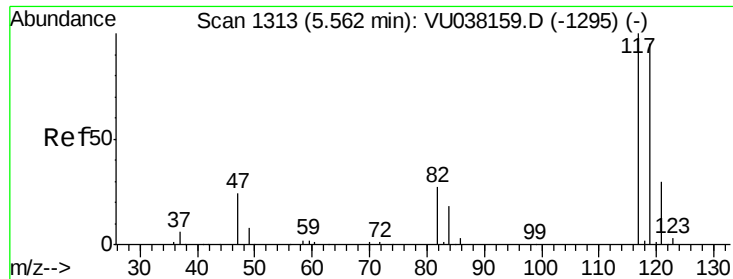
#30
Cyclohexane
Concen: 0.178 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU038182.D
Acq: 14 May 2020 20:10

Tgt Ion: 56 Resp: 7892
Ion Ratio Lower Upper
56 100
69 32.6 24.2 36.4
84 88.9 68.5 102.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.382 ug/L

RT: 5.35 min Scan# 1247

Delta R.T. -0.21 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

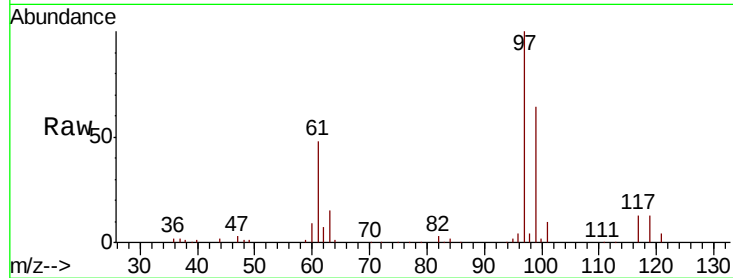
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 11565

Ion Ratio Lower Upper

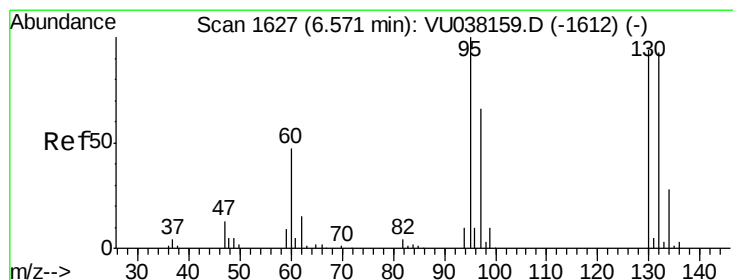
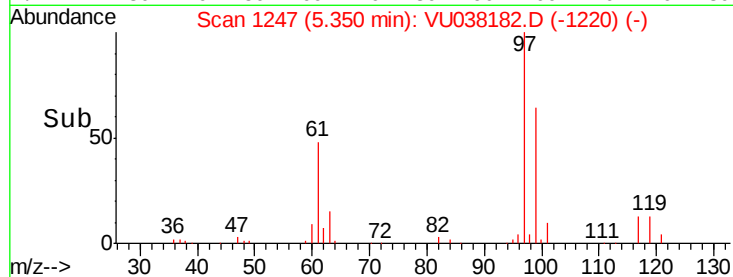
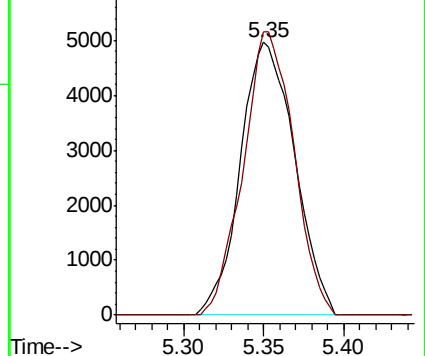
117 100

119 97.1 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 0.502 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

Tgt Ion: 95 Resp: 13216

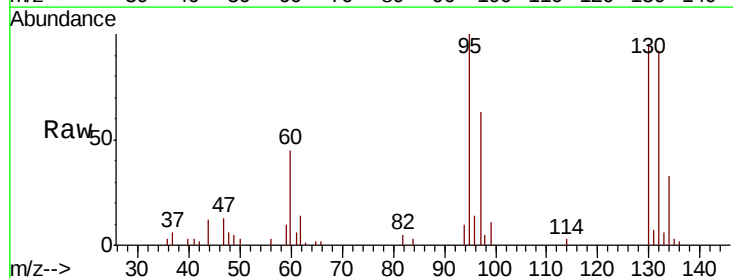
Ion Ratio Lower Upper

95 100

97 62.8 44.9 83.3

132 92.1 63.3 117.5

130 94.6 65.7 122.1

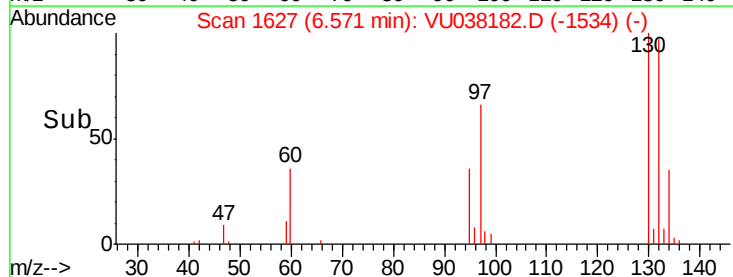
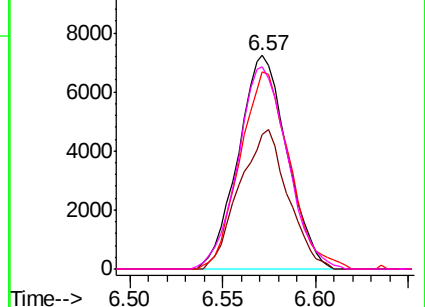


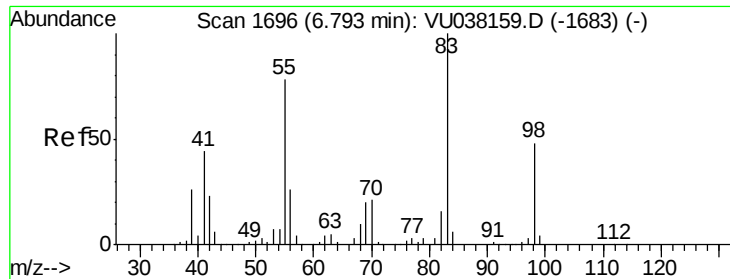
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

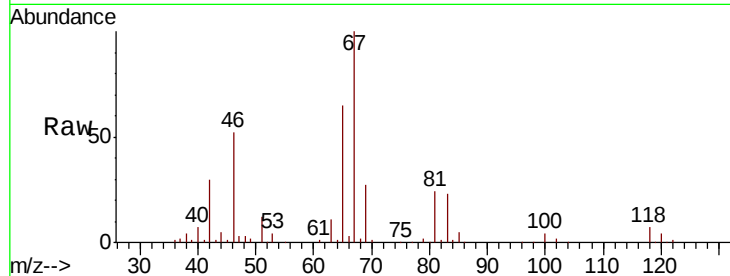




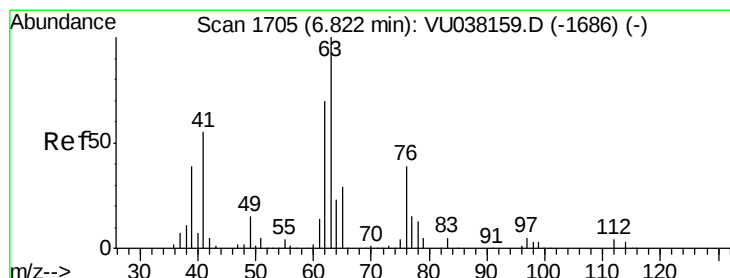
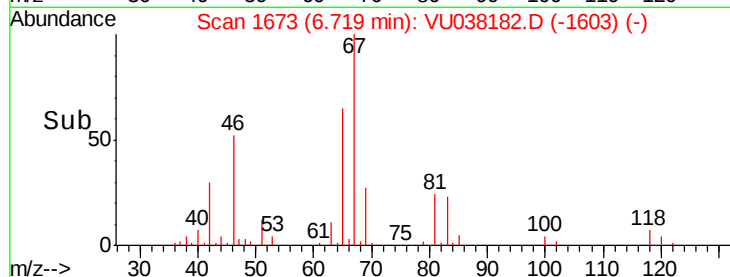
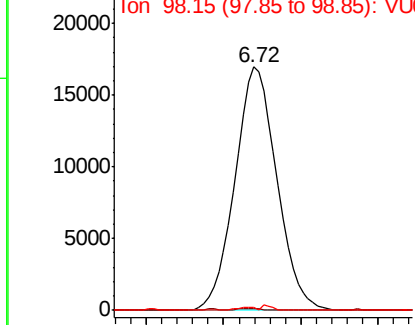
#35
Methvlcvclohexane
Concen: 0.749 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU038182.D
Acq: 14 May 2020 20:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 31914
Ion Ratio Lower Upper
83 100
55 0.4 66.7 100.1#
98 0.6 39.4 59.2#

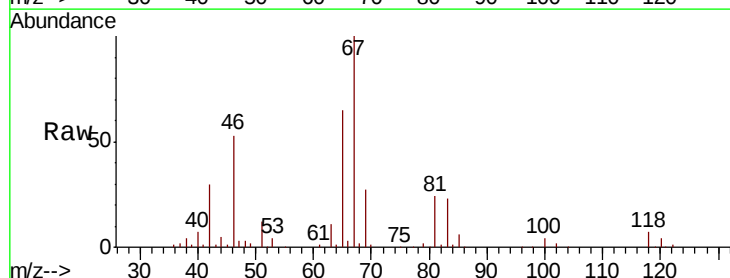


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

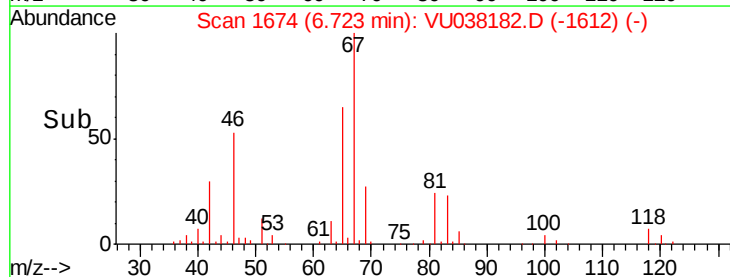
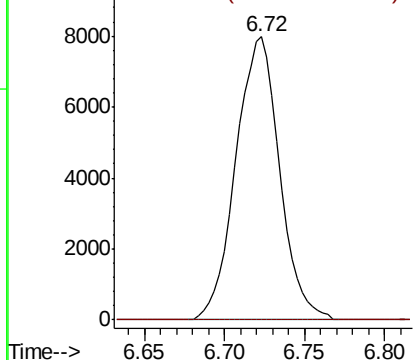


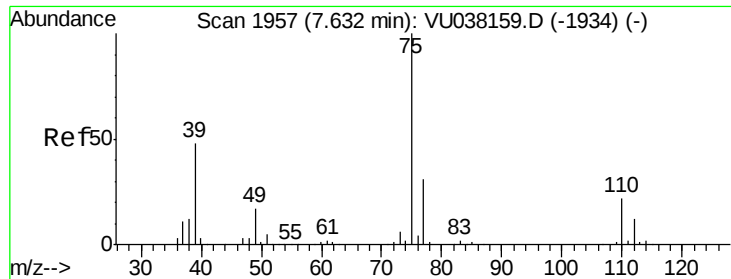
#37
1,2-Dichloropropane
Concen: 0.521 ug/L
RT: 6.72 min Scan# 1674
Delta R.T. -0.10 min
Lab File: VU038182.D
Acq: 14 May 2020 20:10

Tgt Ion: 63 Resp: 14890
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

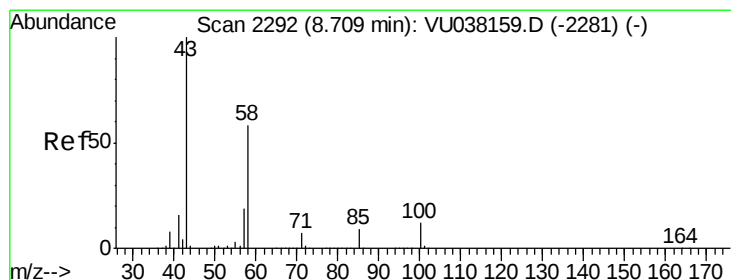
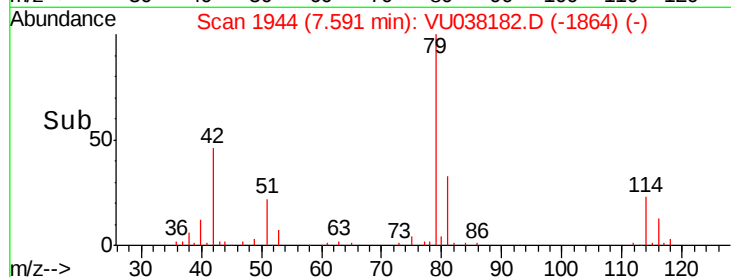
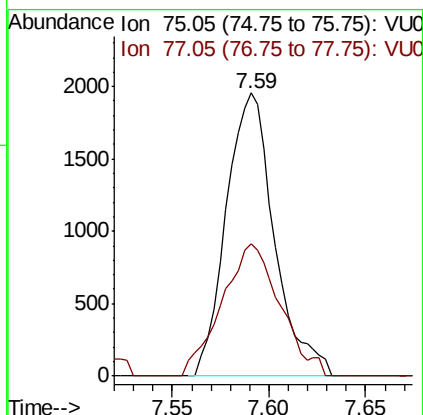
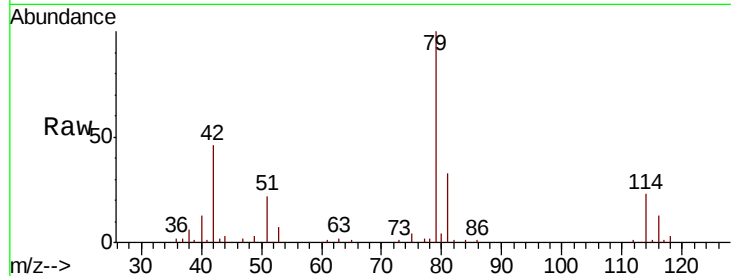




#39
 cis-1,3-Dichloropropene
 Concen: 0.083 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038182.D
 Acq: 14 May 2020 20:10

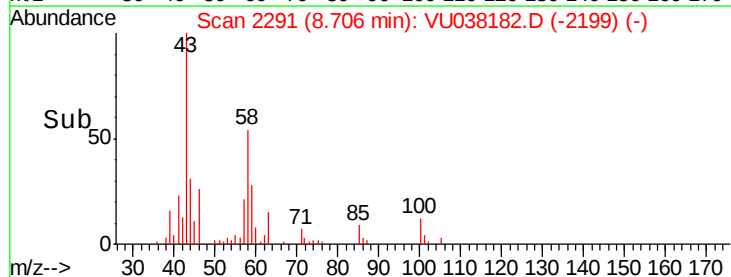
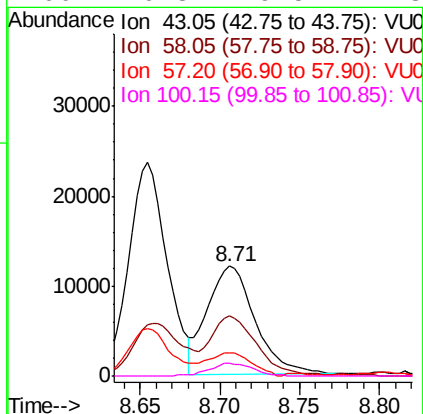
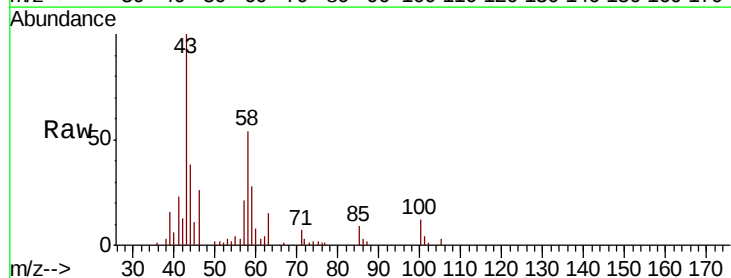
Instrument :
 MSVOA_U
 ClientSampled :

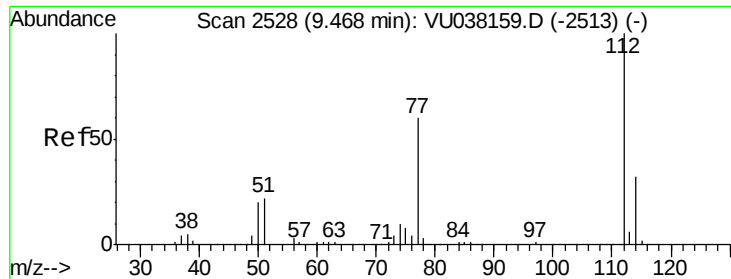
Tot Ion: 75 Resp: 3377
 Ion Ratio Lower Upper
 75 100
 77 46.7 22.4 41.6#



#48
 2-Hexanone
 Concen: 1.731 ug/L
 RT: 8.71 min Scan# 2291
 Delta R.T. -0.00 min
 Lab File: VU038182.D
 Acq: 14 May 2020 20:10

Tgt Ion: 43 Resp: 25101
 Ion Ratio Lower Upper
 43 100
 58 50.6 45.2 67.8
 57 19.8 15.5 23.3
 100 10.8 9.5 14.3

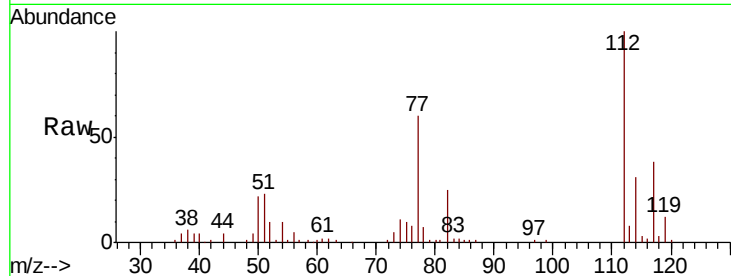




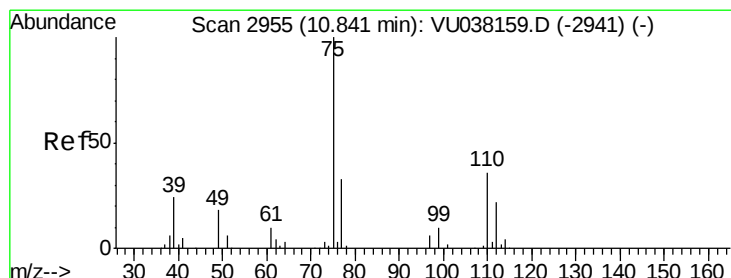
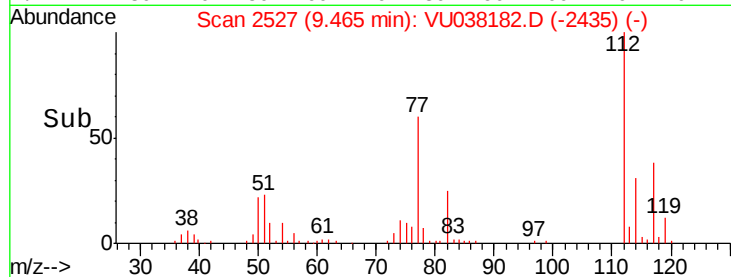
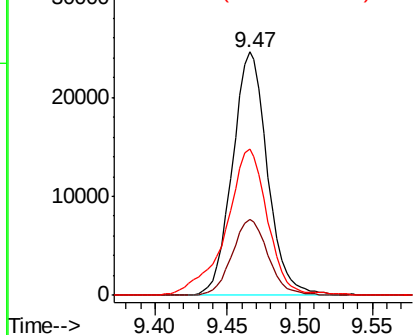
#51
Chlorobenzene
Concen: 0.598 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038182.D
Acq: 14 May 2020 20:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:112 Resp: 41181
Ion Ratio Lower Upper
112 100
114 31.0 22.5 41.7
77 60.0 49.9 74.9

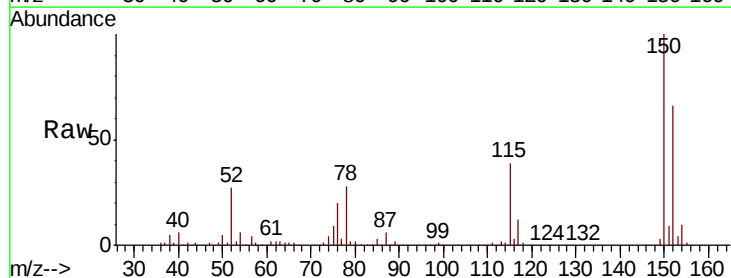


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU

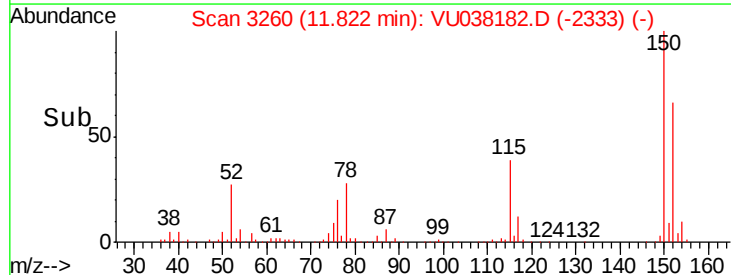
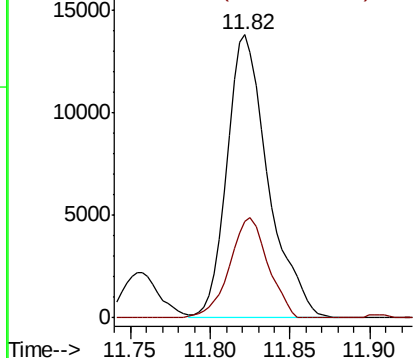


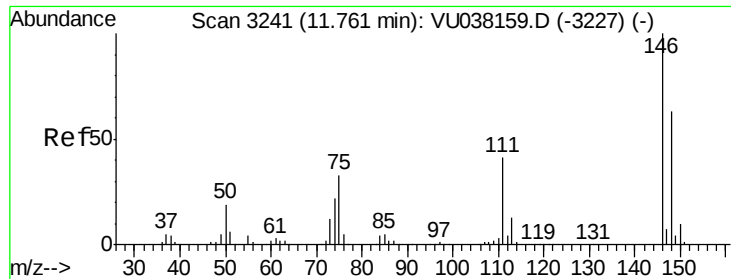
#59
1,2,3-Trichloropropane
Concen: 1.269 ug/L
RT: 11.82 min Scan# 3260
Delta R.T. 0.98 min
Lab File: VU038182.D
Acq: 14 May 2020 20:10

Tgt Ion: 75 Resp: 24326
Ion Ratio Lower Upper
75 100
77 32.8 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU
Ion 77.00 (76.70 to 77.70): VU





#62

1,3-Dichlorobenzene

Concen: 0.186 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

Instrument :

MSVOA_U

ClientSampleId :

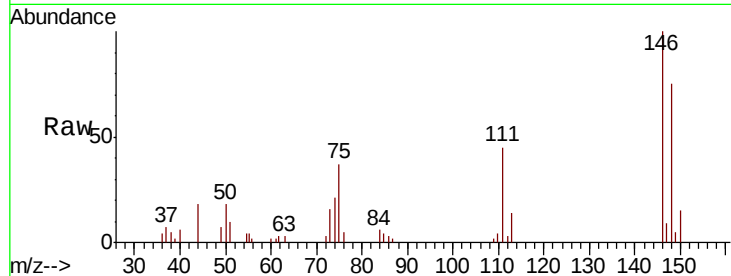
Tot Ion:146 Resp: 9722

Ion Ratio Lower Upper

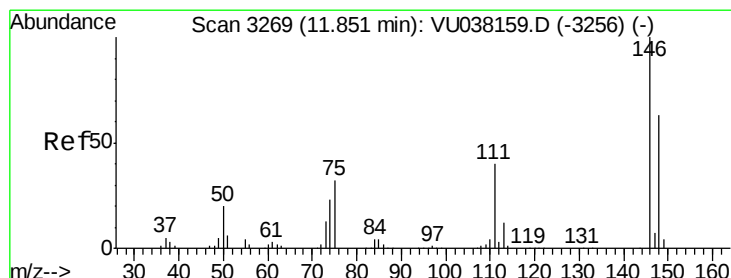
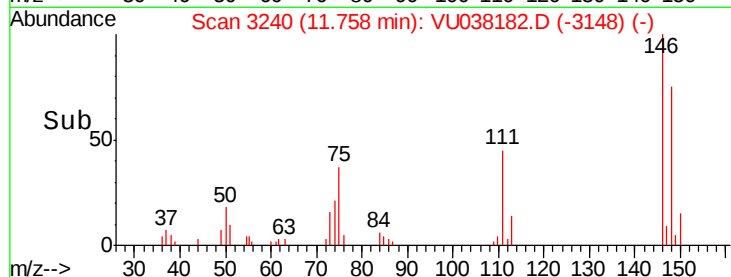
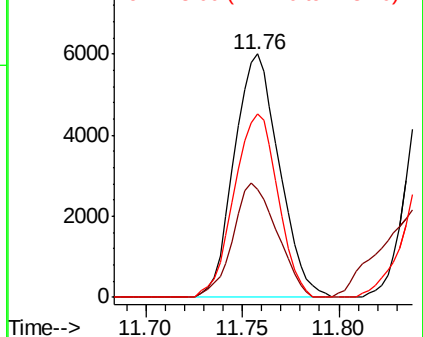
146 100

111 44.5 28.6 53.2

148 75.3 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: 0.176 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038182.D

Acq: 14 May 2020 20:10

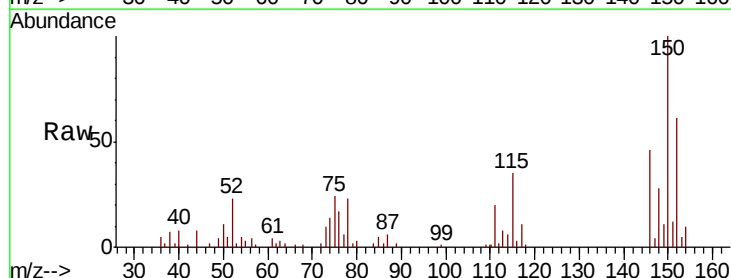
Tgt Ion:146 Resp: 9331

Ion Ratio Lower Upper

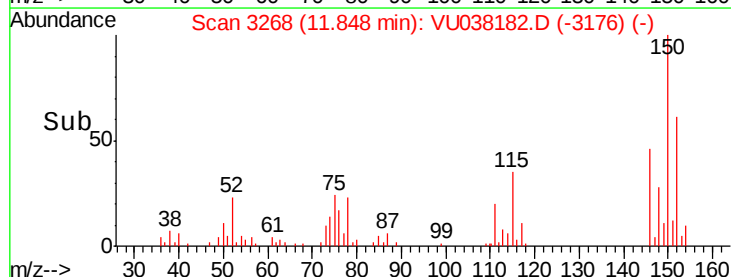
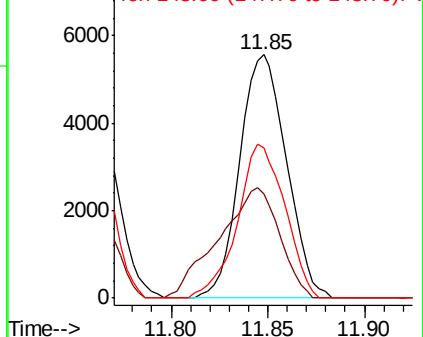
146 100

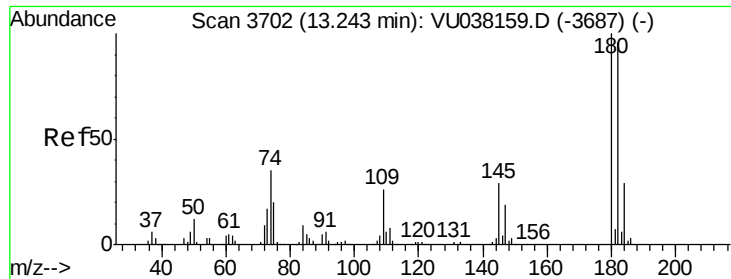
111 42.9 27.2 50.6

148 61.4 43.8 81.3



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

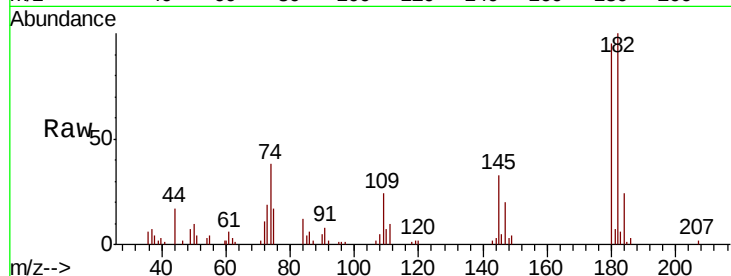




#67
 1,3,5-Trichlorobenzene
 Concen: 0.333 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.62 min
 Lab File: VU038182.D
 Acq: 14 May 2020 20:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.4	77.4	116.2
184	29.0	24.2	36.2
145	32.6	24.0	36.0



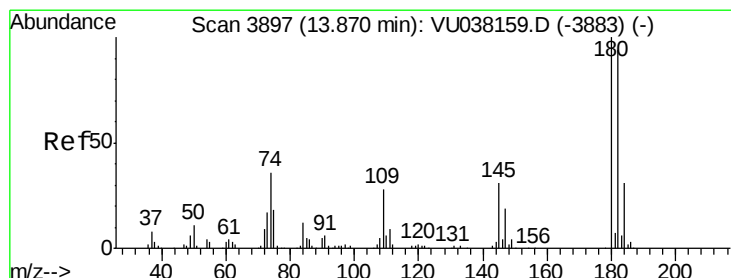
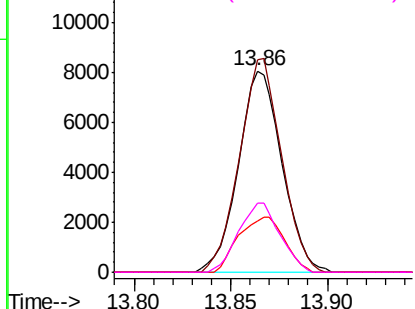
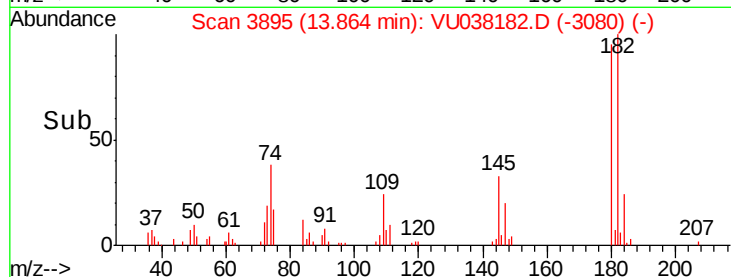
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

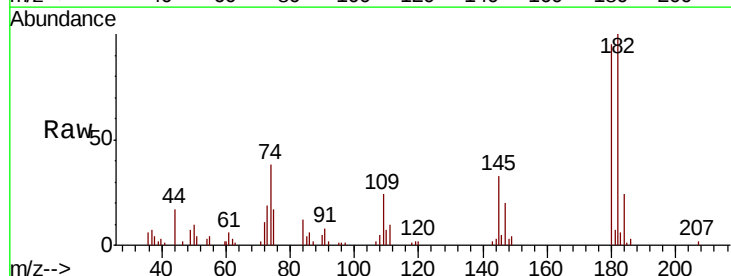
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.367 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU038182.D
 Acq: 14 May 2020 20:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.4	75.0	112.6
145	32.6	24.8	37.2

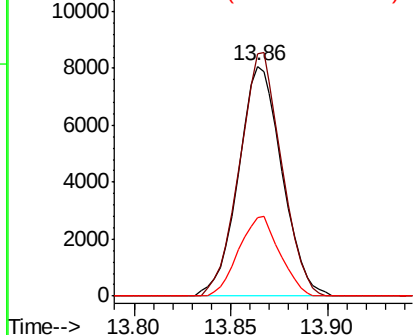
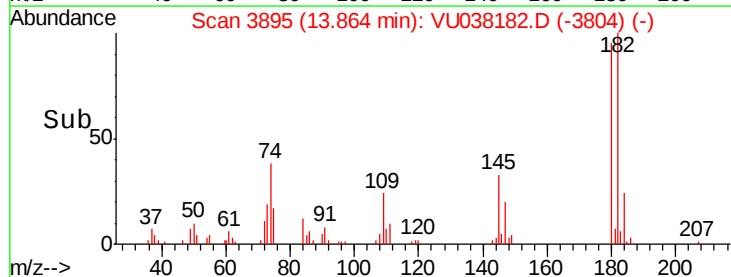


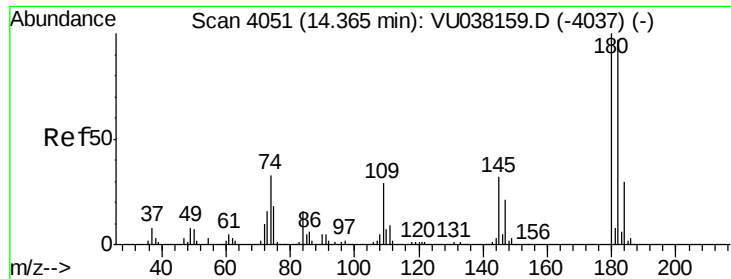
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

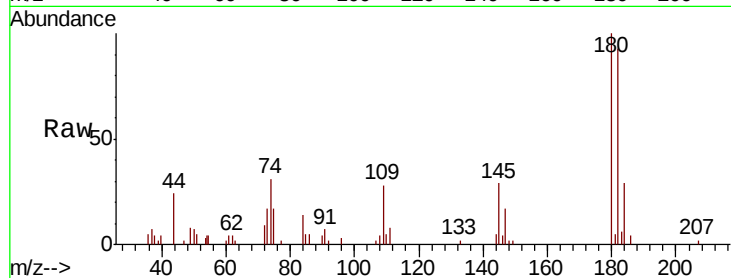




#70
 1,2,3-Trichlorobenzene
 Concen: 0.348 ug/L
 RT: 14.36 min Scan# 4050
 Delta R.T. -0.00 min
 Lab File: VU038182.D
 Acq: 14 May 2020 20:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.3	114.5
145	30.6	26.1	39.1



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

