

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU012920\
 Data File : VU036577.D
 Acq On : 28 Jan 2020 17:13
 Operator : JC/MD
 Sample : VSTD01036
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 29 04:16:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM012920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jan 29 04:13:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	257791	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	242598	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	106158	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	21214	12.37	ug/L	0.00
7) Chloroethane-d5	1.93	69	18443	12.42	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	33960	10.70	ug/L	0.00
21) 2-Butanone-d5	4.68	46	25547	18.45	ug/L	0.00
24) Chloroform-d	5.11	84	35666	10.85	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	22366	10.35	ug/L	0.00
32) Benzene-d6	5.77	84	75728	11.84	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	24019	11.63	ug/L	0.00
41) Toluene-d8	7.93	98	72320	11.90	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	10838	9.92	ug/L	0.00
47) 2-Hexanone-d5	8.67	63	21167	20.33	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	35483	11.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	26658	12.66	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	21546	9.426 ug/L	99
3) Chloromethane	1.54	50	23713	11.194 ug/L	97
5) Vinyl chloride	1.62	62	23443	10.954 ug/L	98
6) Bromomethane	1.88	94	12965	10.042 ug/L	96
8) Chloroethane	1.95	64	14943	11.708 ug/L	98
9) Trichlorofluoromethane	2.16	101	28673	10.130 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	17886	11.590 ug/L	99
12) 1,1-Dichloroethene	2.61	96	16868	11.047 ug/L	91
13) Acetone	2.66	43	26200	17.773 ug/L	97
14) Carbon disulfide	2.82	76	52291	10.708 ug/L	99
15) Methyl Acetate	2.99	43	19052	9.467 ug/L	100
16) Methylene chloride	3.08	84	21407	11.376 ug/L	99
17) trans-1,2-Dichloroethene	3.39	96	18771	11.172 ug/L	94
18) Methyl tert-butyl Ether	3.41	73	61216	10.842 ug/L	99
19) 1,1-Dichloroethane	3.92	63	33454	10.725 ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	21233	11.065 ug/L	91
22) 2-Butanone	4.76	43	29831	17.695 ug/L	95
23) Bromochloromethane	5.02	128	11143	11.828 ug/L	97
25) Chloroform	5.13	83	34318	10.357 ug/L	98
27) 1,2-Dichloroethane	5.84	62	26149	10.067 ug/L	96
29) Cyclohexane	5.43	56	30525	10.706 ug/L	96
30) 1,1,1-Trichloroethane	5.36	97	27606	9.908 ug/L	97
31) Carbon tetrachloride	5.57	117	23334	9.803 ug/L	98
33) Benzene	5.82	78	79257	11.371 ug/L	100
34) Trichloroethene	6.58	95	20450	11.012 ug/L	96
35) Methylcyclohexane	6.80	83	34553	11.881 ug/L	98
37) 1,2-Dichloropropane	6.83	63	19965	10.819 ug/L	# 96
38) Bromodichloromethane	7.14	83	25151	10.107 ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	31684	10.673 ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	52662	18.454 ug/L	99

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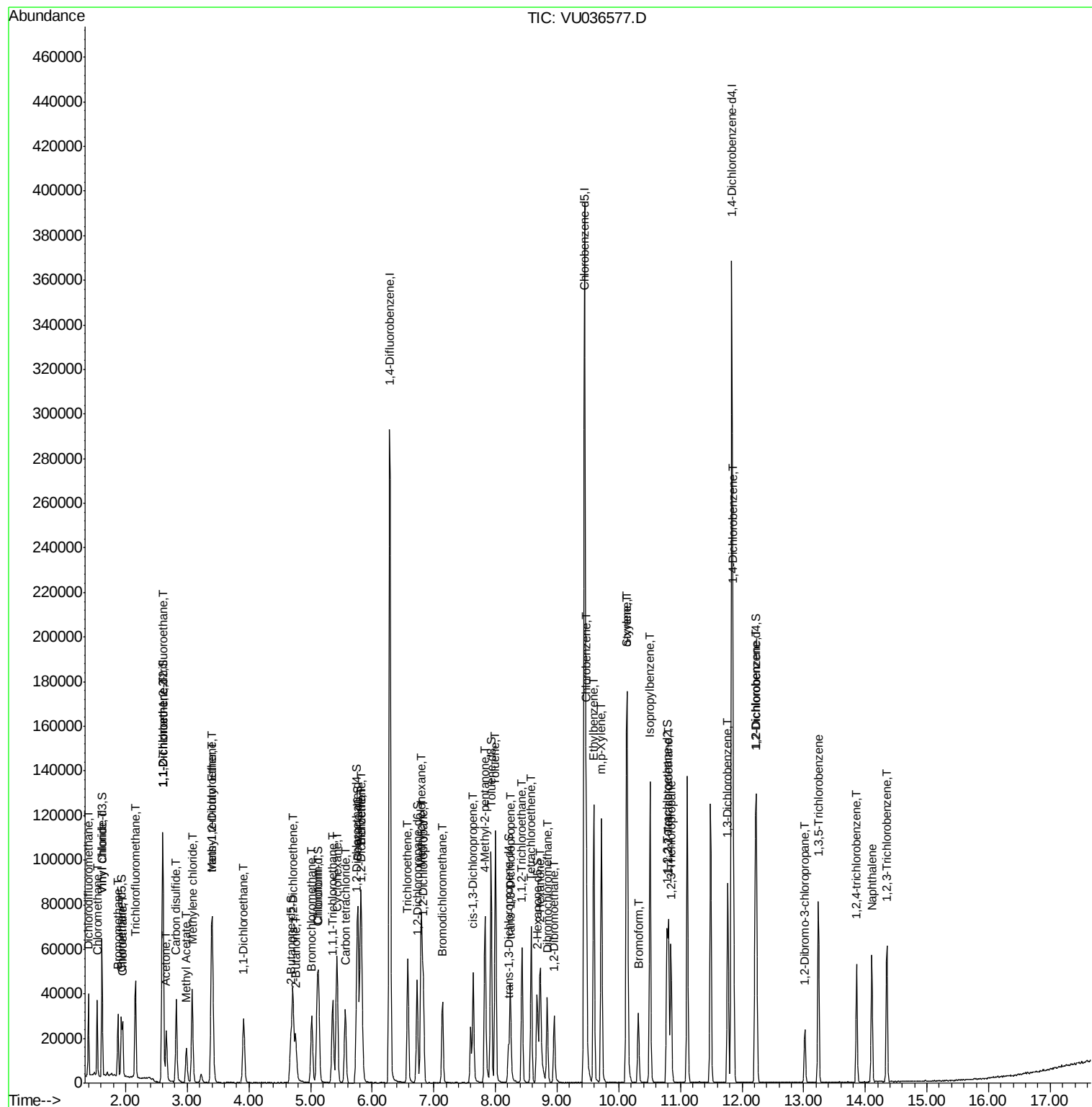
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	85121	11.235	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	28315	10.419	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	20487	11.532	ug/L	99
46) Tetrachloroethene	8.58	164	16446	12.648	ug/L	93
48) 2-Hexanone	8.73	43	37384	16.570	ug/L	93
49) Dibromochloromethane	8.84	129	20708	10.605	ug/L	97
50) 1,2-Dibromoethane	8.95	107	21666	10.862	ug/L	96
51) Chlorobenzene	9.47	112	56794	11.844	ug/L	99
52) Ethylbenzene	9.60	91	92863	11.037	ug/L	100
53) m,p-Xylene	9.72	106	36659	11.543	ug/L	99
54) o-xylene	10.12	106	36320	11.424	ug/L	100
55) Styrene	10.14	104	57158	11.109	ug/L	96
56) Isopropylbenzene	10.51	105	92065	11.363	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	35738	11.630	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	28250	11.187	ug/L	97
61) Bromoform	10.32	173	15650	10.874	ug/L	96
62) 1,3-Dichlorobenzene	11.77	146	40587	12.003	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	40007	11.854	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	42554	12.730	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	6365	9.069	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	27169	12.881	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	17701	11.354	ug/L	100
69) Naphthalene	14.10	128	47994	9.361	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	19449	11.990	ug/L	96

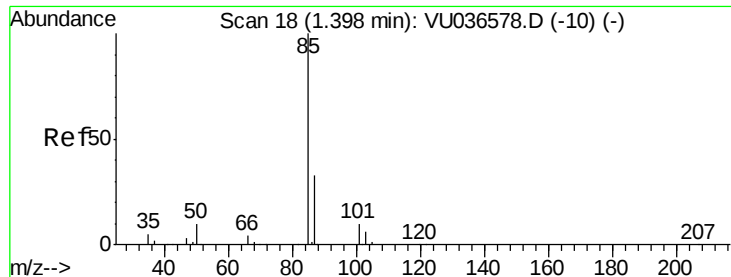
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 9.426 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

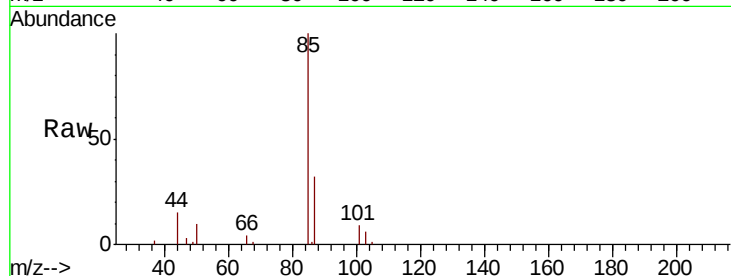
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 21546

Ion Ratio Lower Upper

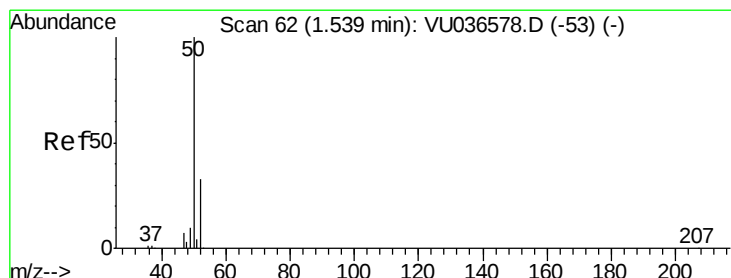
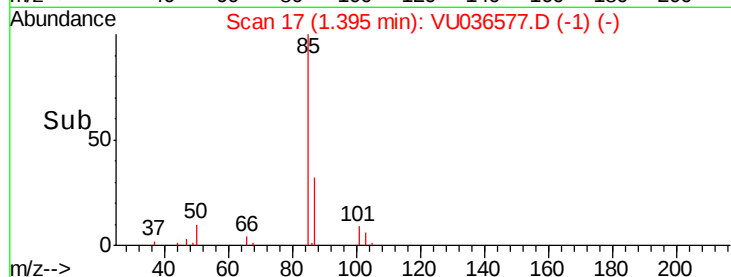
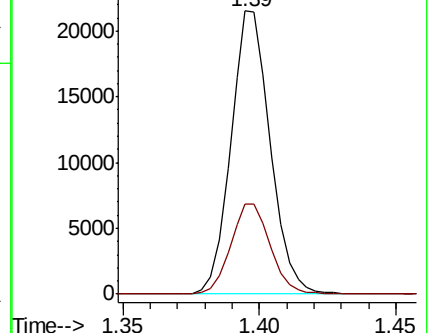
85 100

87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VU036577.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036577.D (-1) (-)



#3

Chloromethane

Concen: 11.194 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036577.D

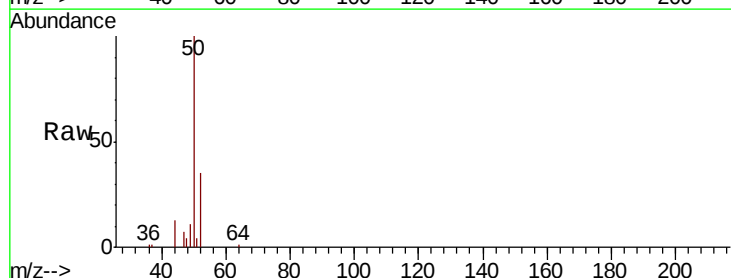
Acq: 28 Jan 2020 17:13

Tgt Ion: 50 Resp: 23713

Ion Ratio Lower Upper

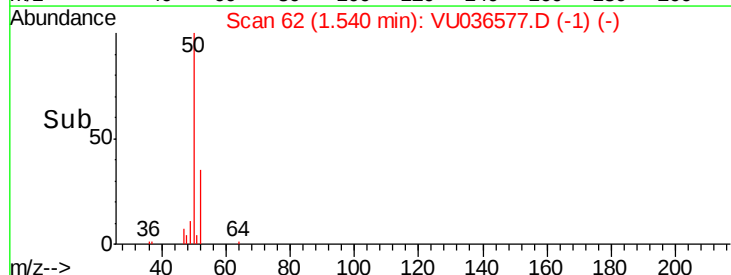
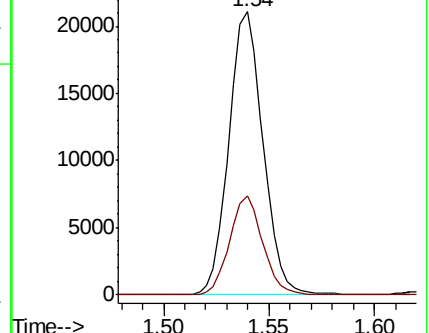
50 100

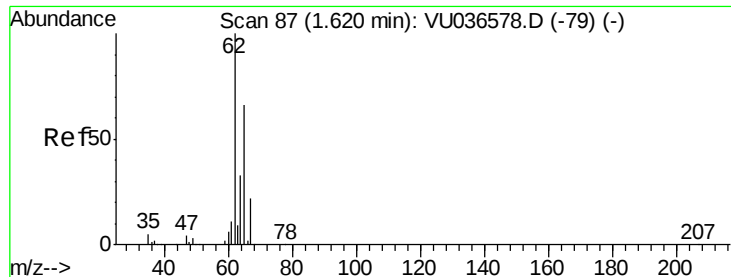
52 34.8 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU036577.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU036577.D (-1) (-)





#5

Vinyl chloride

Concen: 10.954 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

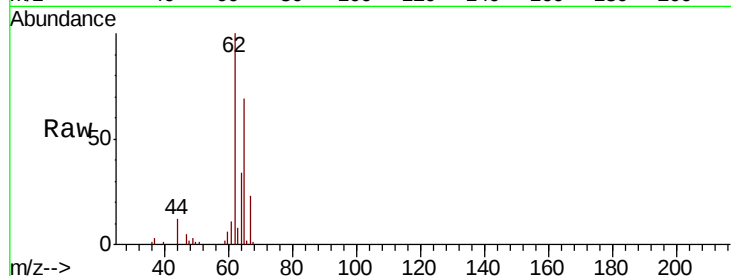
ClientSampled :

Tot Ion: 62 Resp: 23443

Ion Ratio Lower Upper

62 100

64 33.7 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU036577.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU036577.D (-79) (-)

1.62

25000

20000

15000

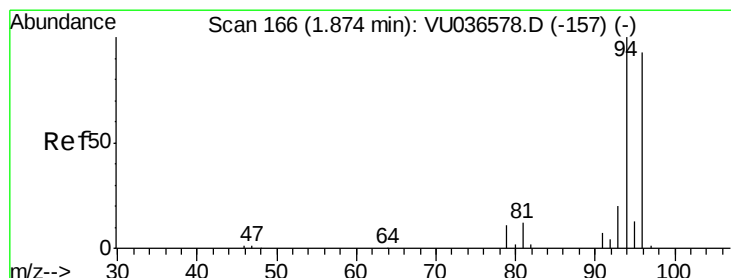
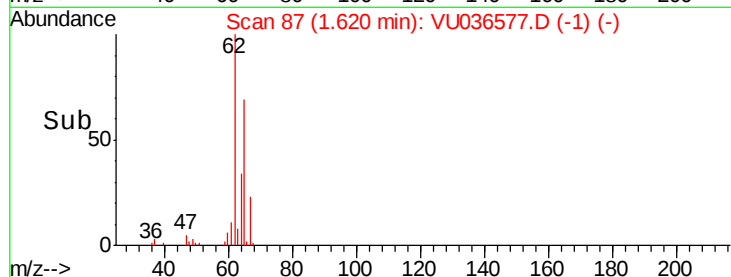
10000

5000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 10.042 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU036577.D

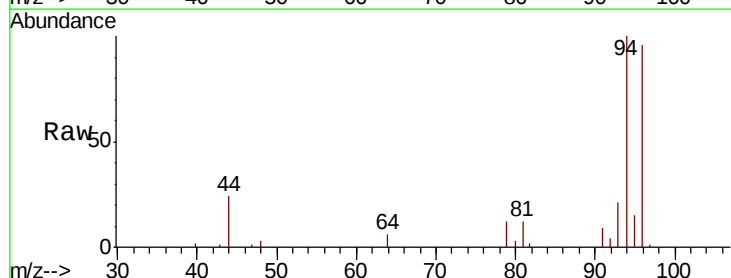
Acq: 28 Jan 2020 17:13

Tgt Ion: 94 Resp: 12965

Ion Ratio Lower Upper

94 100

96 96.4 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU036577.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU036577.D (-157) (-)

1.88

10000

8000

6000

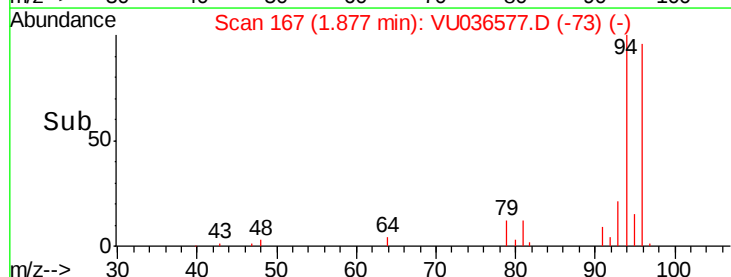
4000

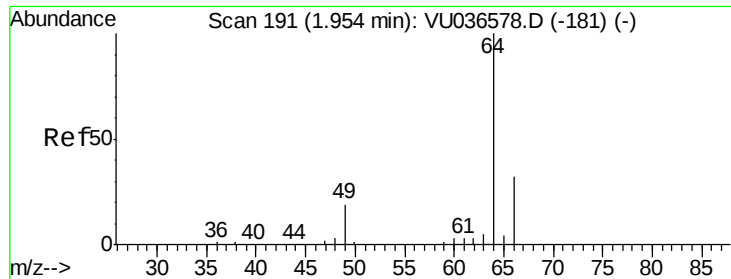
2000

0

1.85 1.90

Time-->

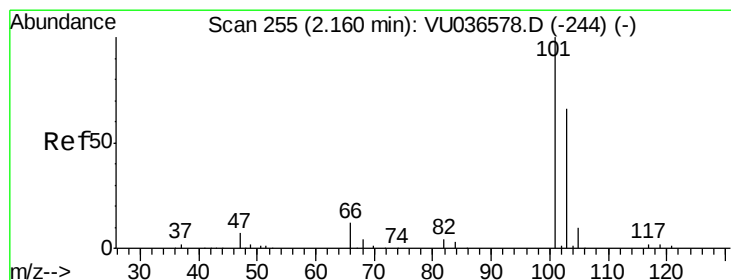
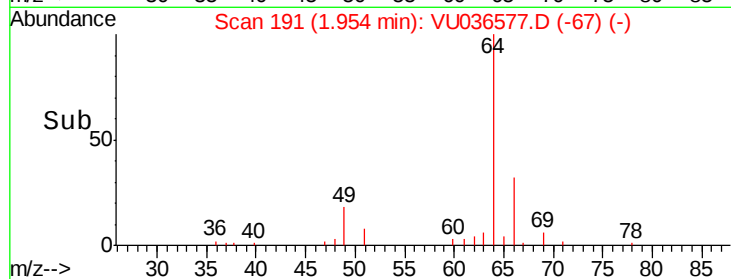
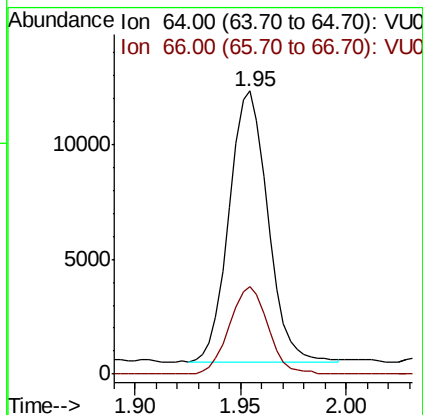
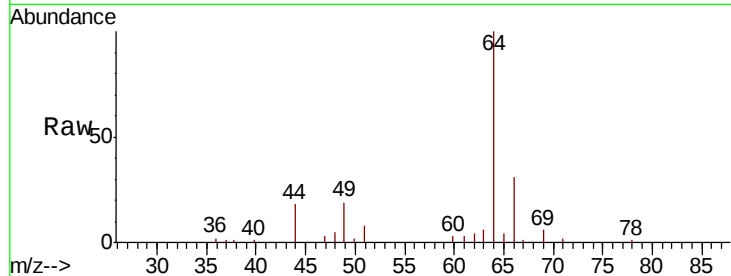




#8
Chloroethane
Concen: 11.708 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

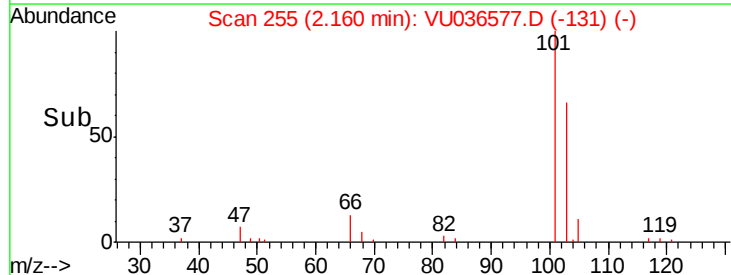
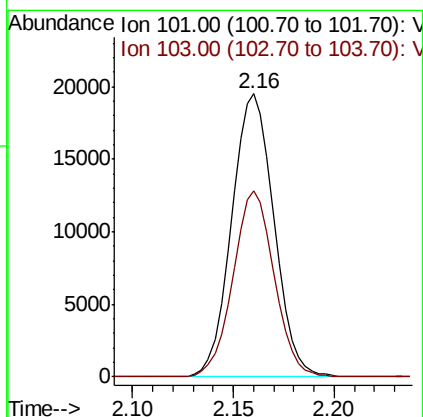
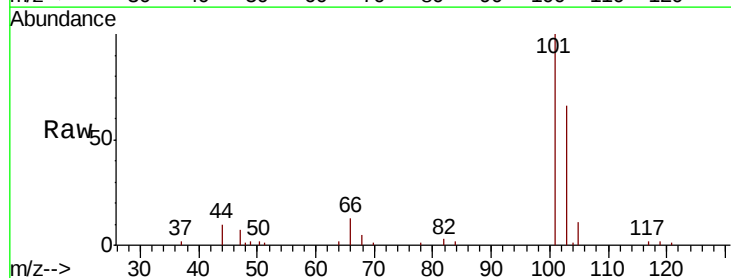
Instrument :
MSVOA_U
ClientSampleId :

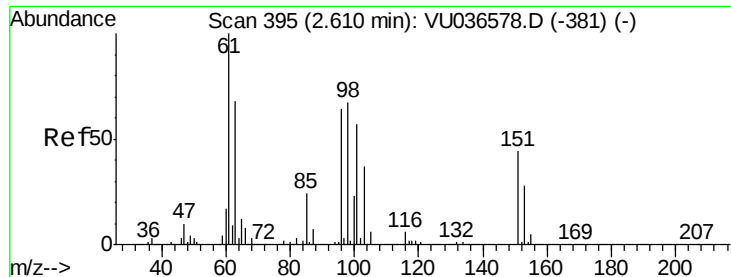
Tot Ion: 64 Resp: 14943
Ion Ratio Lower Upper
64 100
66 31.1 22.4 41.6



#9
Trichlorofluoromethane
Concen: 10.130 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion:101 Resp: 28673
Ion Ratio Lower Upper
101 100
103 63.8 52.4 78.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 11.590 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampled :

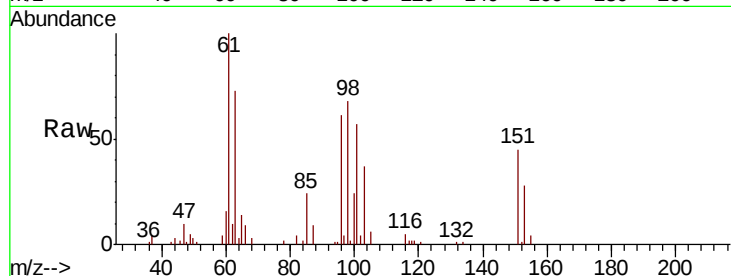
Tot Ion:101 Resp: 17886

Ion Ratio Lower Upper

101 100

85 41.1 32.6 49.0

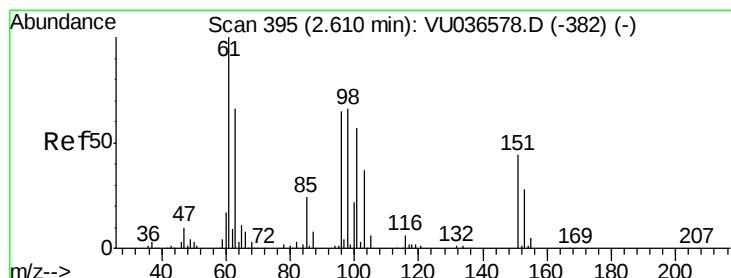
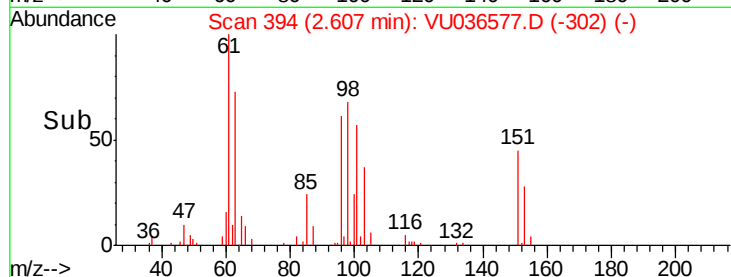
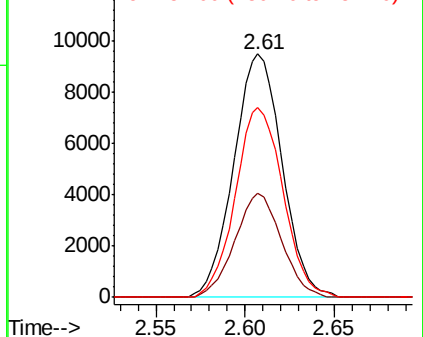
151 77.1 60.3 90.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 11.047 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

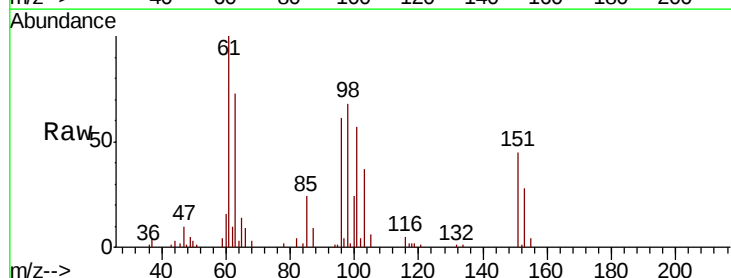
Tgt Ion: 96 Resp: 16868

Ion Ratio Lower Upper

96 100

61 164.4 108.6 201.8

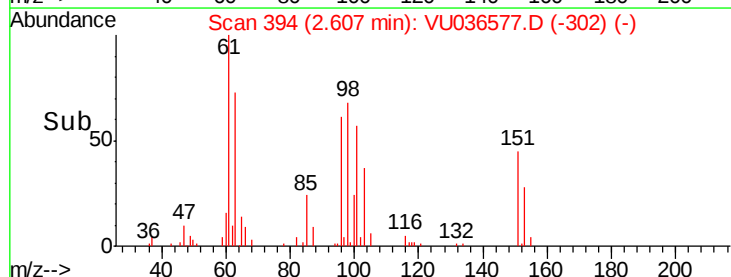
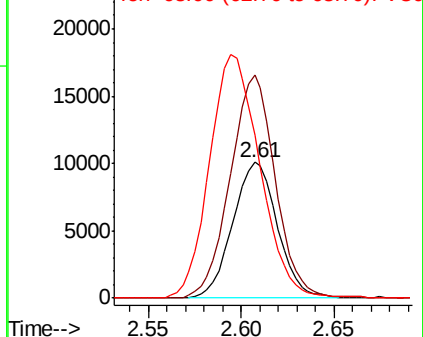
63 119.9 75.0 139.2

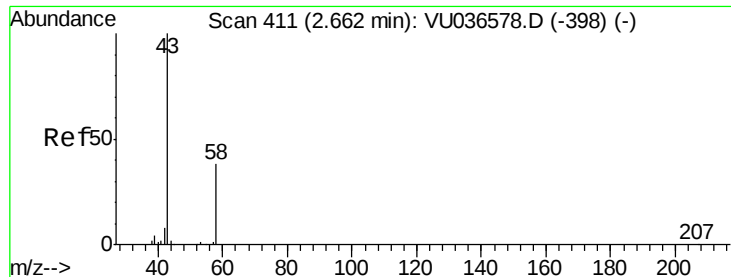


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 17.773 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

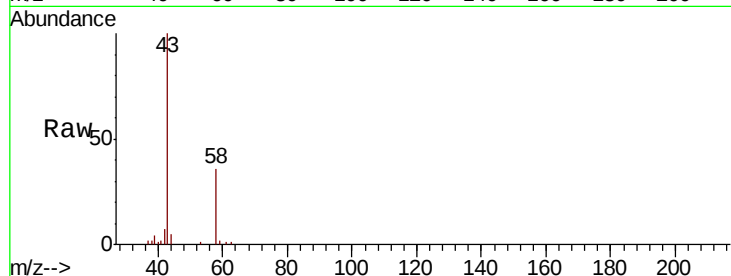
ClientSampleId :

Tot Ion: 43 Resp: 26200

Ion Ratio Lower Upper

43 100

58 35.8 0.0 75.4



Abundance Ion 43.00 (42.70 to 43.70): VU036577.D (-318) (-)

Ion 58.00 (57.70 to 58.70): VU036577.D (-318) (-)

2.66

15000

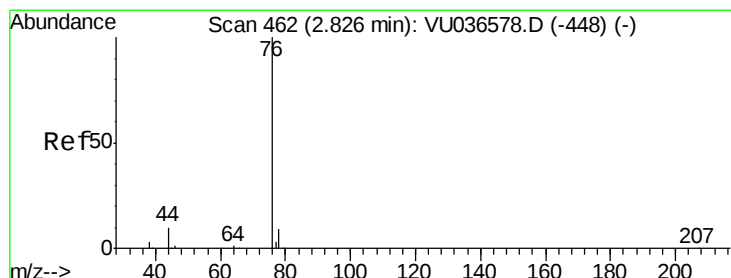
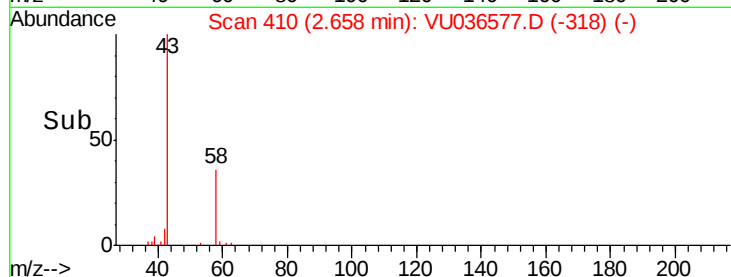
10000

5000

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 10.708 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036577.D

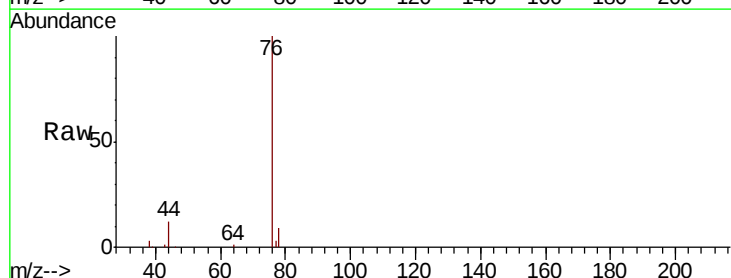
Acq: 28 Jan 2020 17:13

Tgt Ion: 76 Resp: 52291

Ion Ratio Lower Upper

76 100

78 9.5 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU036577.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VU036577.D (-369) (-)

2.82

30000

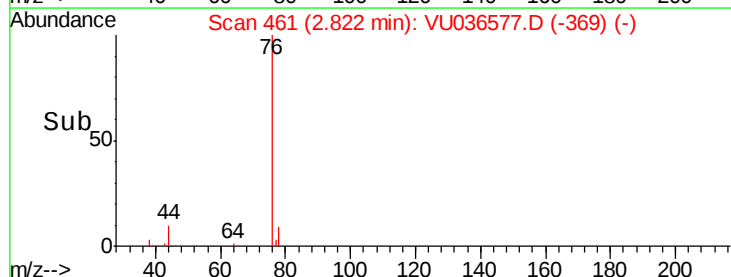
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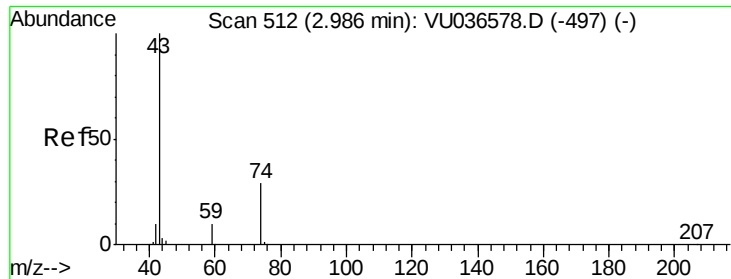
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Time-->

2.75 2.80 2.85 2.90 2.95

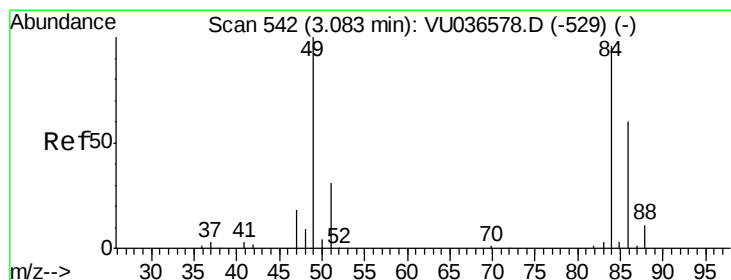
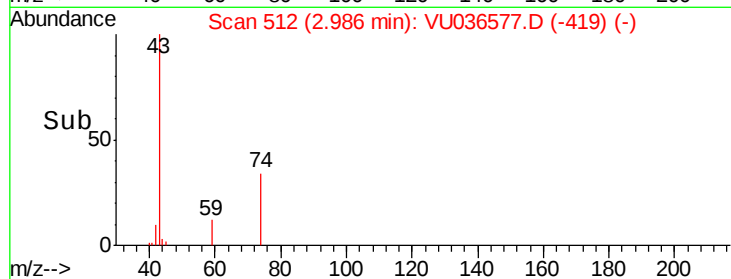
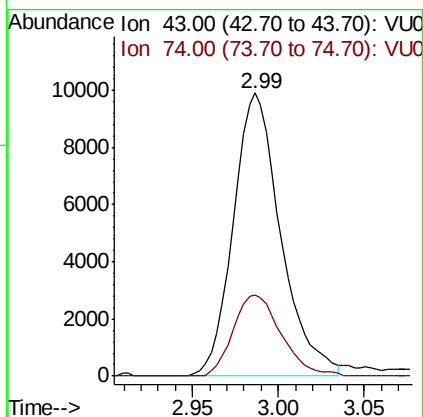
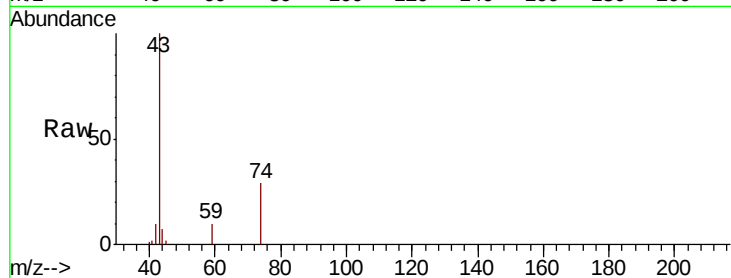




#15
Methvl Acetate
Concen: 9.467 ug/L
RT: 2.99 min Scan# 512
Delta R.T. 0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

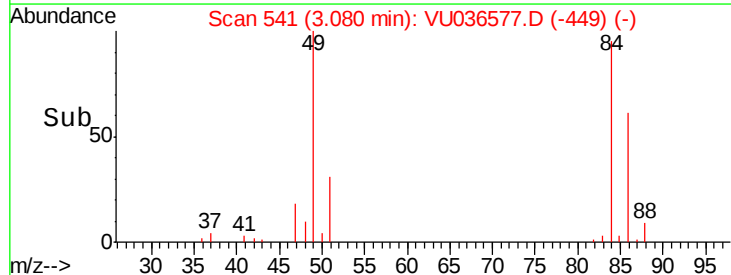
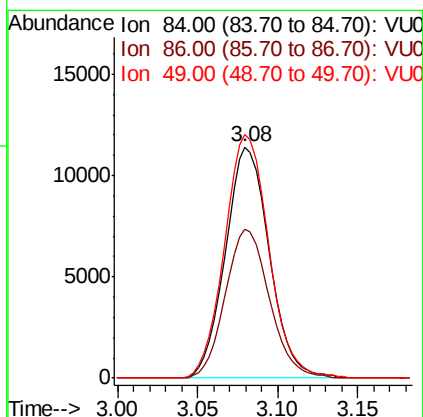
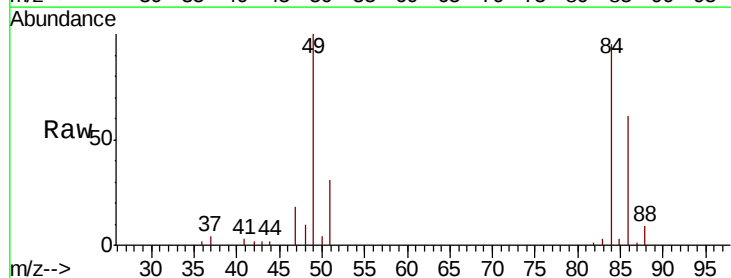
Instrument :
MSVOA_U
ClientSampled :

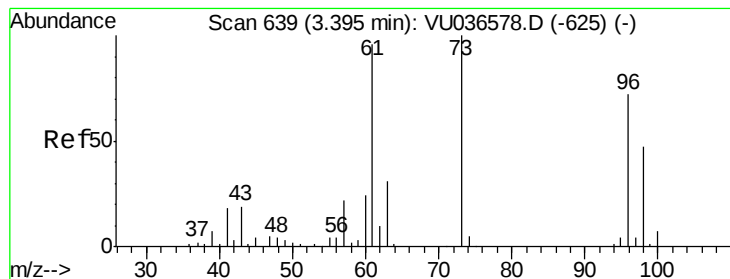
Tot Ion: 43 Resp: 19052
Ion Ratio Lower Upper
43 100
74 29.0 23.3 34.9



#16
Methylene chloride
Concen: 11.376 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion: 84 Resp: 21407
Ion Ratio Lower Upper
84 100
86 64.7 44.1 81.9
49 105.4 73.3 136.1





#17

trans-1,2-Dichloroethene

Concen: 11.172 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

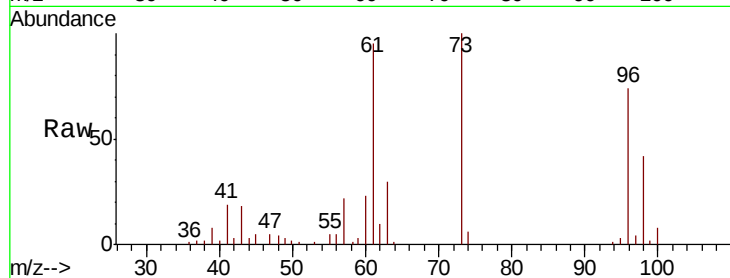
Tot Ion: 96 Resp: 18771

Ion Ratio Lower Upper

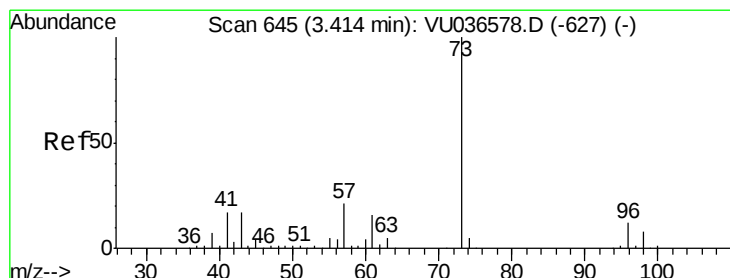
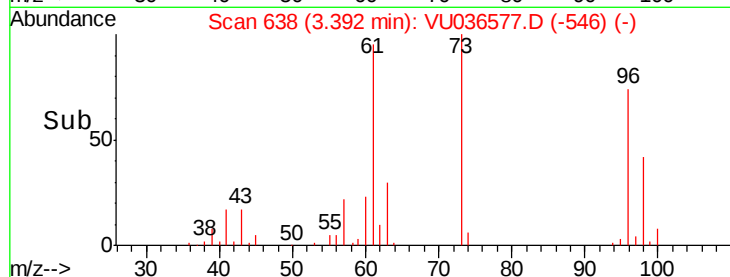
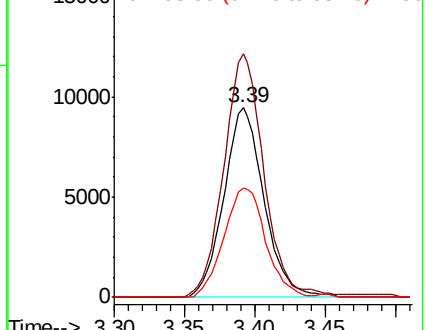
96 100

61 128.5 93.4 173.4

98 57.5 46.1 85.5



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



#18

Methyl tert-butyl Ether

Concen: 10.842 ug/L

RT: 3.41 min Scan# 643

Delta R.T. -0.01 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

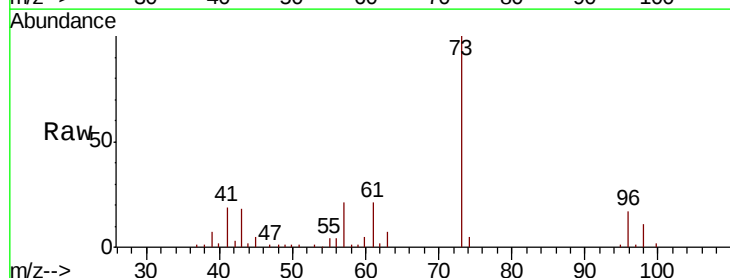
Tgt Ion: 73 Resp: 61216

Ion Ratio Lower Upper

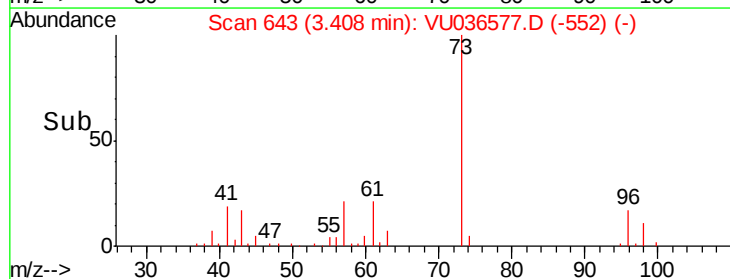
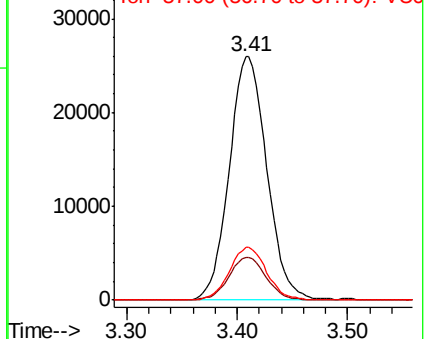
73 100

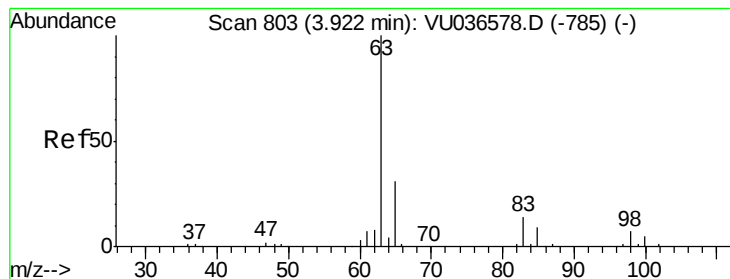
43 17.4 14.2 21.4

57 21.3 17.3 25.9



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 10.725 ug/L

RT: 3.92 min Scan# 801

Delta R.T. -0.01 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

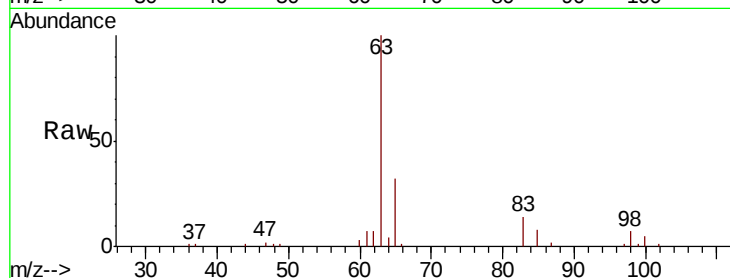
Tot Ion: 63 Resp: 33454

Ion Ratio Lower Upper

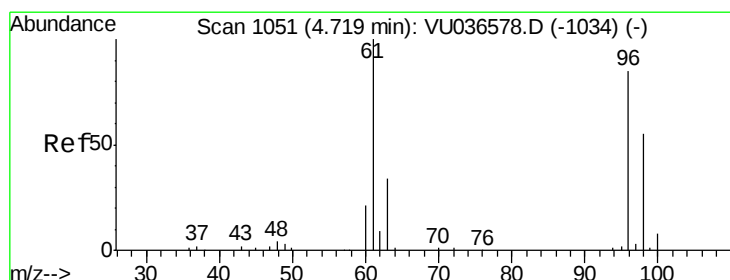
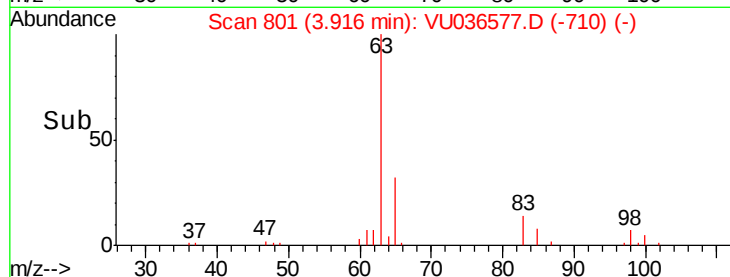
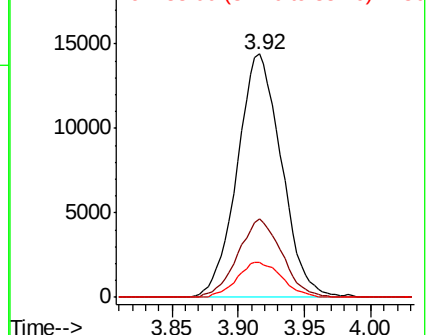
63 100

65 32.1 21.9 40.7

83 14.2 9.7 17.9



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 11.065 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

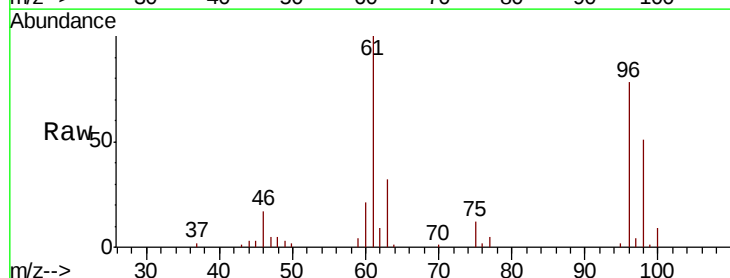
Tgt Ion: 96 Resp: 21233

Ion Ratio Lower Upper

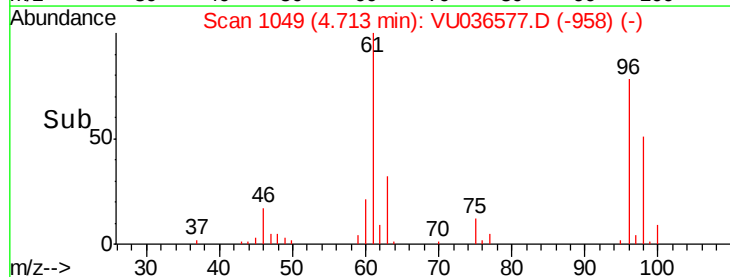
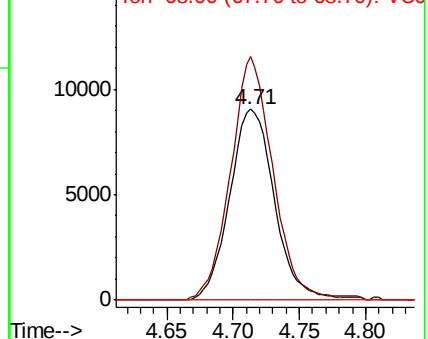
96 100

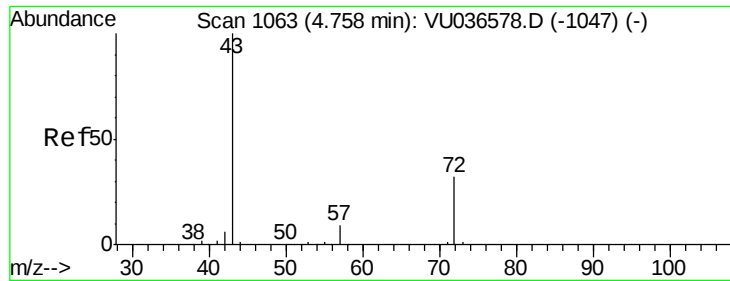
61 127.7 82.2 152.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 17.695 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

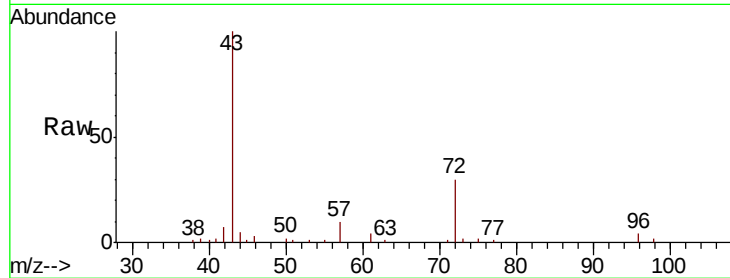
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 29831

Ion Ratio Lower Upper

43 100

72 30.8 16.7 50.1



Abundance Ion 43.00 (42.70 to 43.70): VU036577.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU036577.D (-970) (-)

4.76

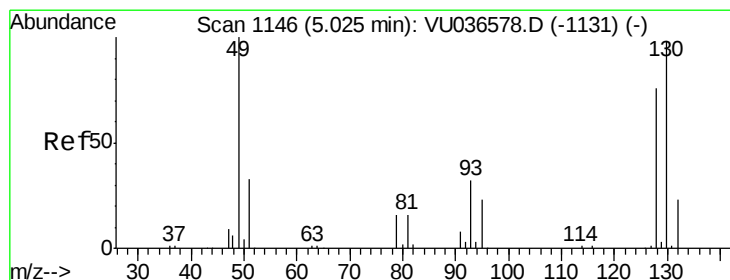
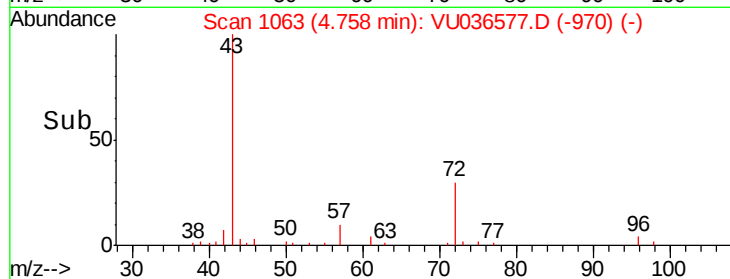
10000

5000

0

Time-->

4.70 4.80 4.90



#23

Bromochloromethane

Concen: 11.828 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Tgt Ion: 128 Resp: 11143

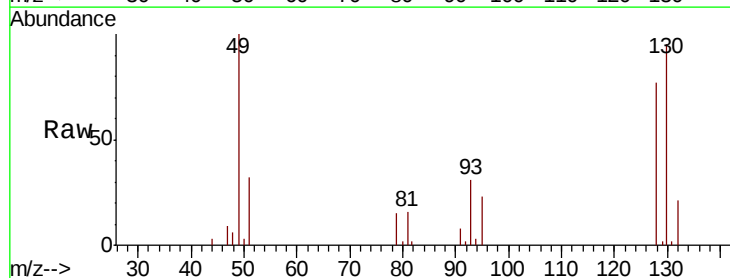
Ion Ratio Lower Upper

128 100

49 130.5 92.5 171.9

130 124.5 90.4 168.0

51 42.0 34.6 52.0



Abundance Ion 128.00 (127.70 to 128.70): VU036577.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU036577.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU036577.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU036577.D (-1053) (-)

5.02

10000

8000

6000

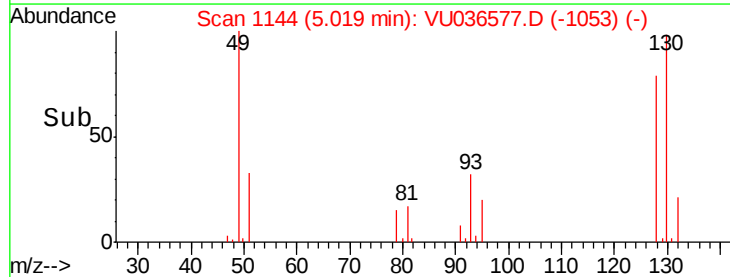
4000

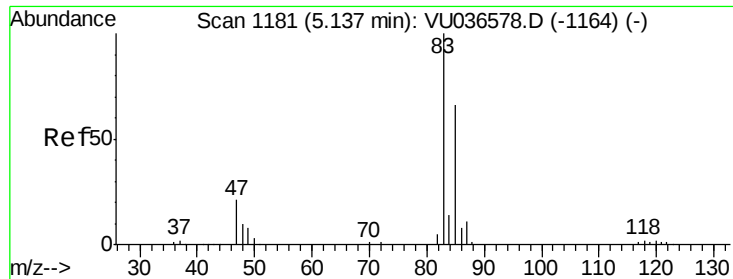
2000

0

Time-->

4.95 5.00 5.05 5.10

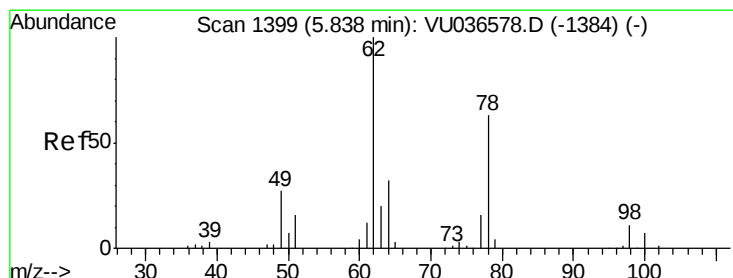
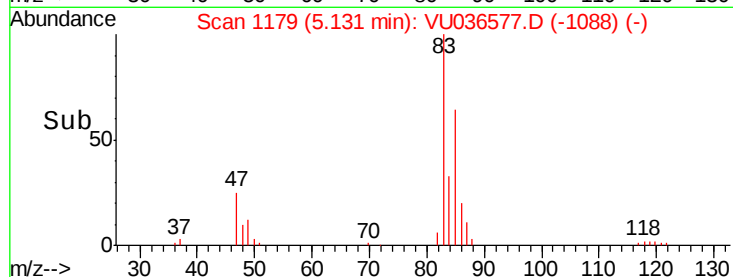
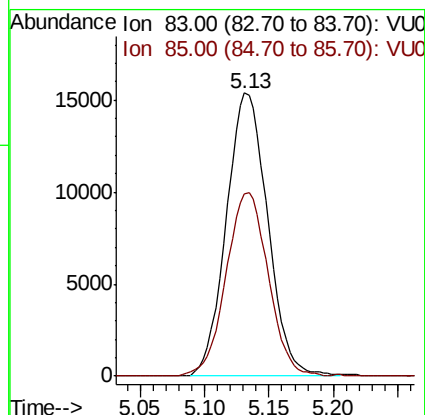
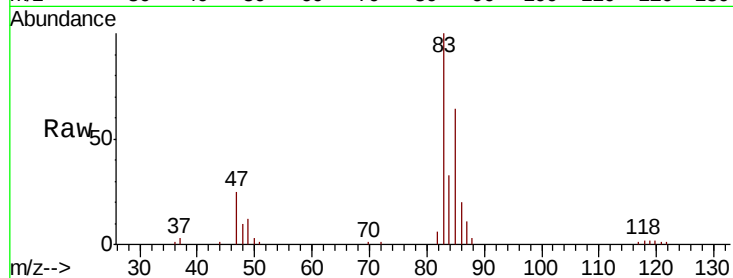




#25
Chloroform
Concen: 10.357 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.01 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

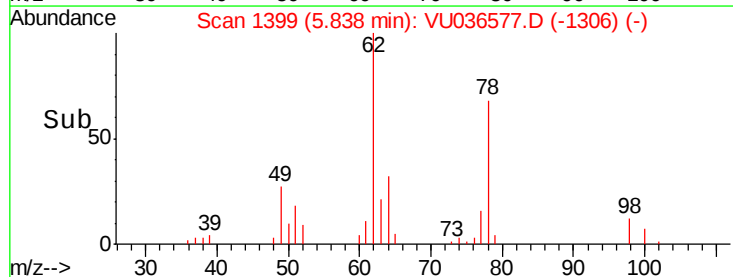
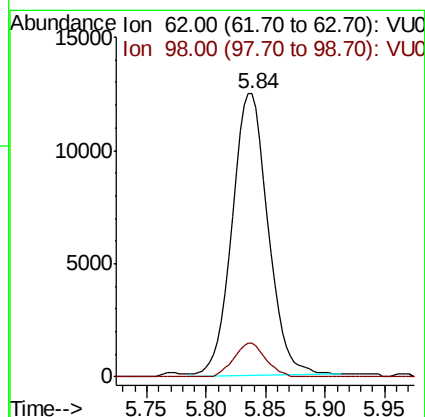
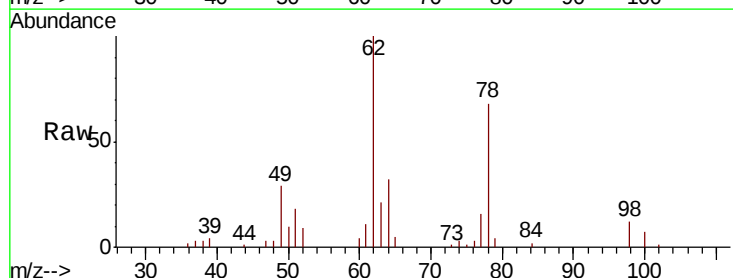
Instrument :
MSVOA_U
ClientSampleId :

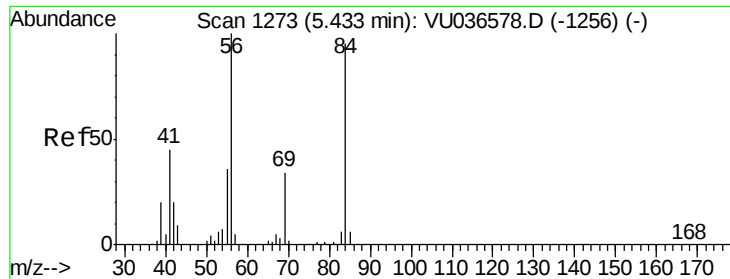
Tot Ion: 83 Resp: 34318
Ion Ratio Lower Upper
83 100
85 64.5 46.3 85.9



#27
1,2-Dichloroethane
Concen: 10.067 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion: 62 Resp: 26149
Ion Ratio Lower Upper
62 100
98 12.1 8.4 12.6

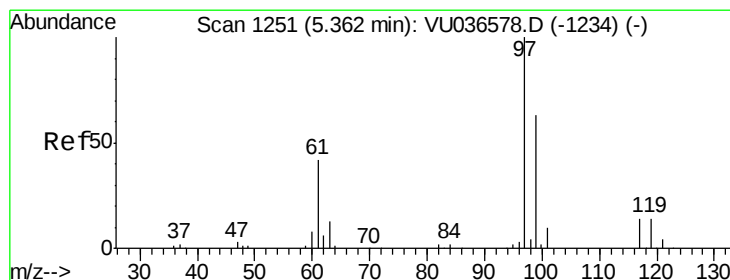
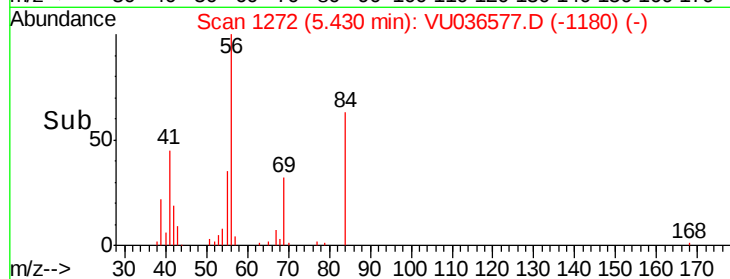
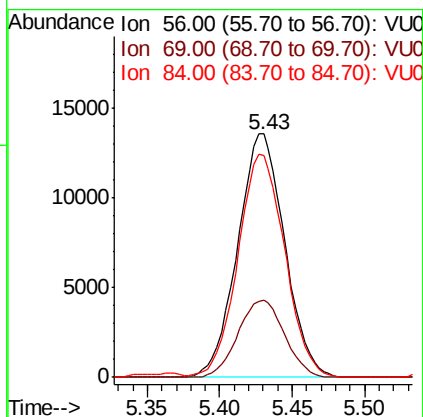
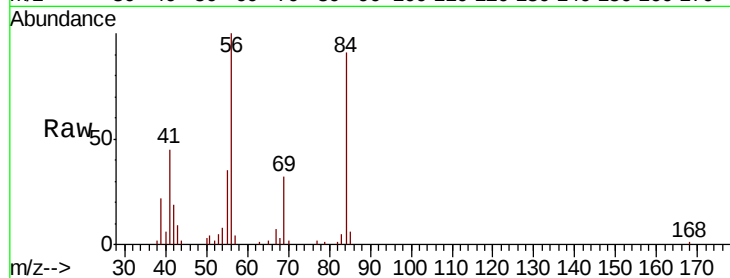




#29
Cyclohexane
Concen: 10.706 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

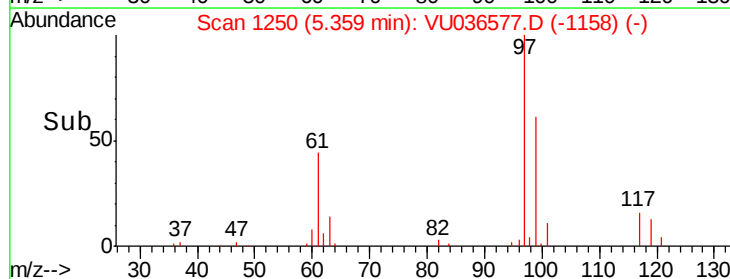
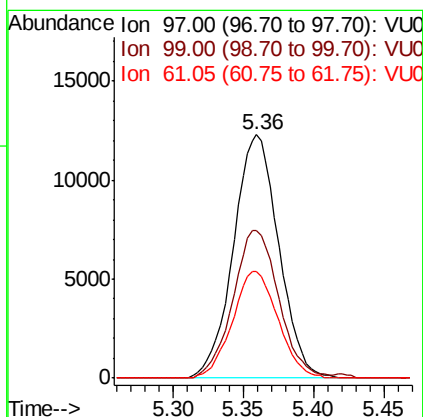
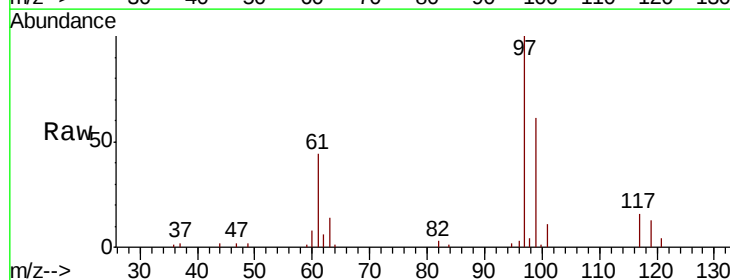
Instrument :
MSVOA_U
ClientSampled :

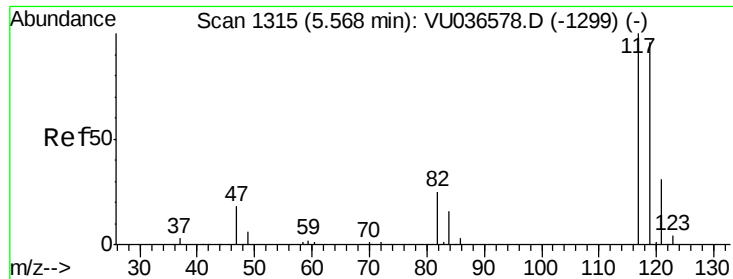
Tot Ion	56	Resp	30525
Ion Ratio	Lower	Upper	
56	100		
69	31.2	26.4	39.6
84	91.4	76.6	114.8



#30
1,1,1-Trichloroethane
Concen: 9.908 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion	97	Resp	27606
Ion Ratio	Lower	Upper	
97	100		
99	61.4	51.0	76.4
61	44.0	34.1	51.1





#31

Carbon tetrachloride

Concen: 9.803 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

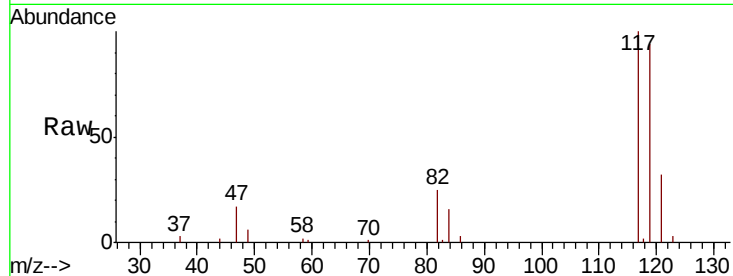
ClientSampleId :

Tot Ion:117 Resp: 23334

Ion Ratio Lower Upper

117 100

119 93.3 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.57

12000

10000

8000

6000

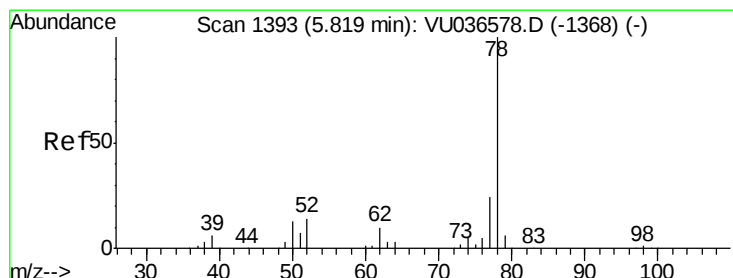
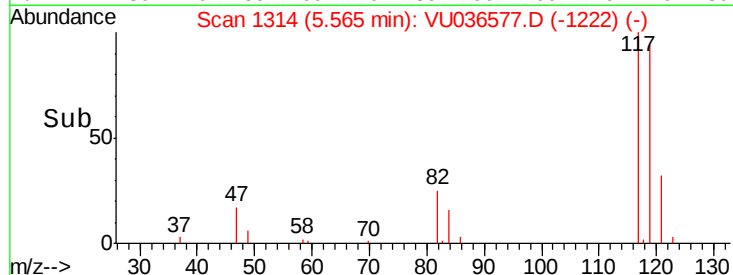
4000

2000

0

Time-->

5.50 5.55 5.60



#33

Benzene

Concen: 11.371 ug/L

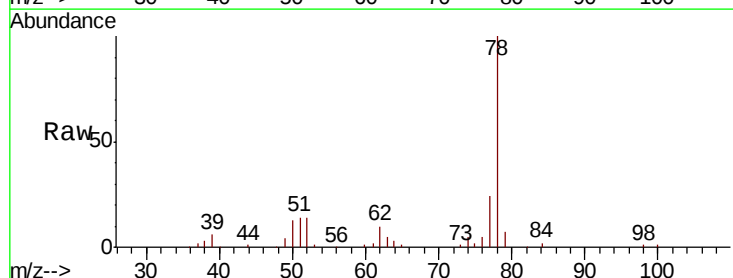
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Tgt Ion: 78 Resp: 79257



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.82

40000

30000

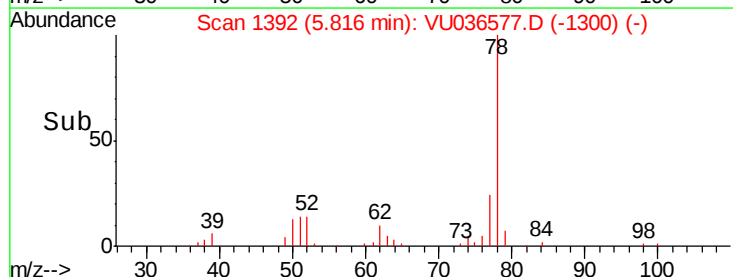
20000

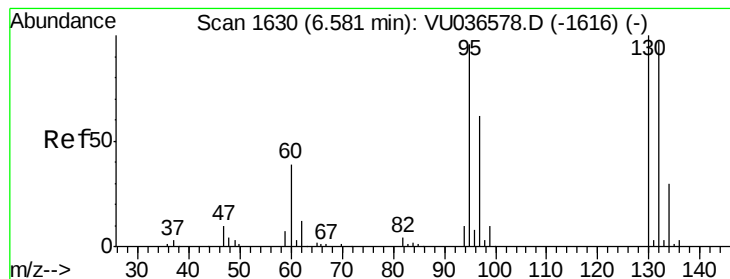
10000

0

Time-->

5.70 5.75 5.80 5.85 5.90





#34

Trichloroethene

Concen: 11.012 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 20450

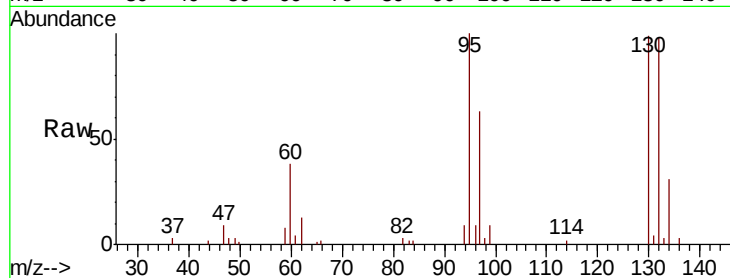
Ion Ratio Lower Upper

95 100

97 63.0 45.5 84.5

132 97.7 70.9 131.7

130 99.4 72.9 135.3

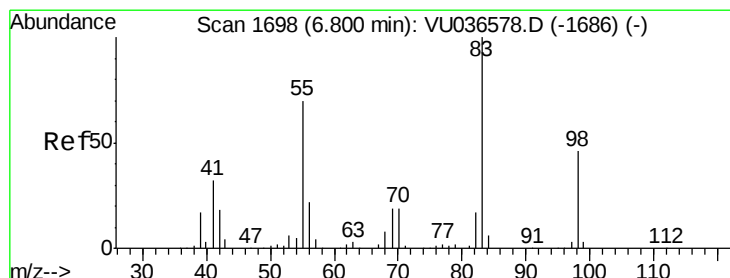
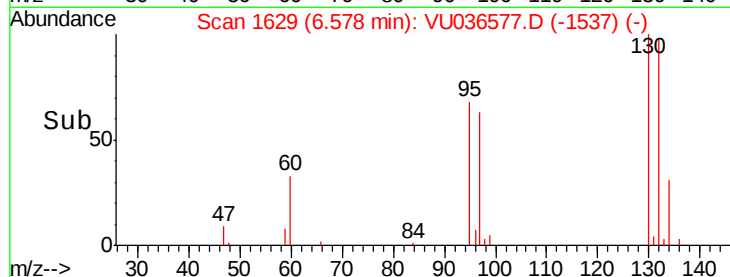
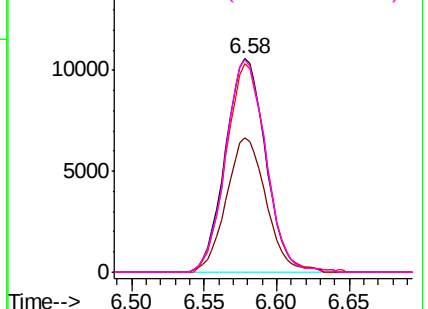


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 11.881 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

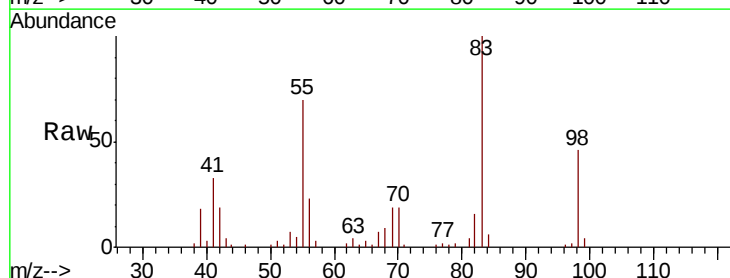
Tgt Ion: 83 Resp: 34553

Ion Ratio Lower Upper

83 100

55 68.2 56.1 84.1

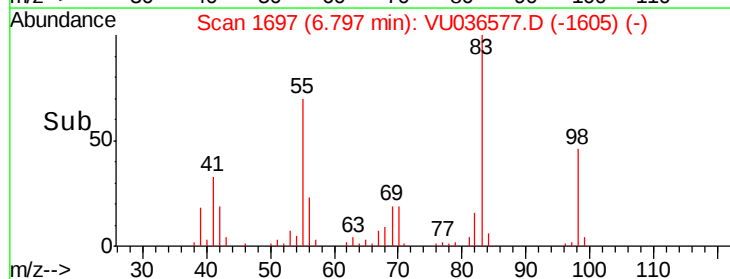
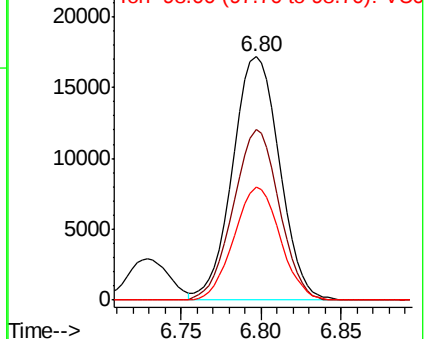
98 45.5 37.5 56.3

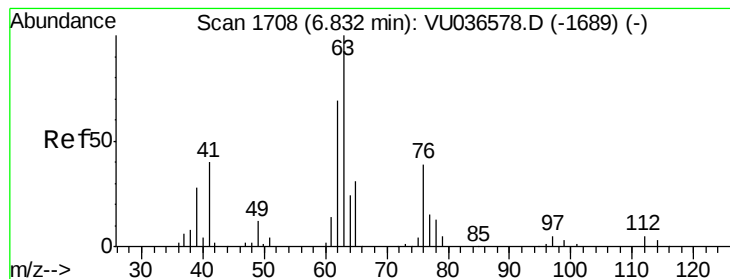


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 10.819 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

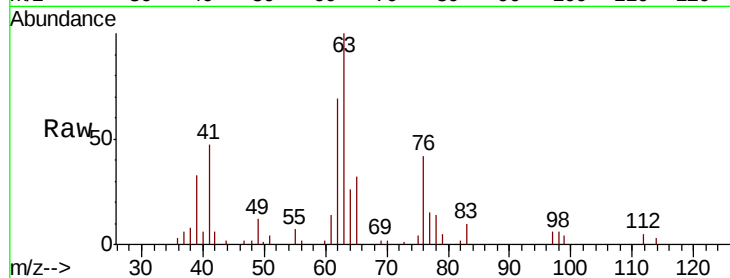
ClientSampleId :

Tot Ion: 63 Resp: 19965

Ion Ratio Lower Upper

63 100

112 2.9 3.4 5.2#



Abundance Ion 63.00 (62.70 to 63.70): VU036577.D (-1615) (-)

Ion 112.00 (111.70 to 112.70): VU036577.D (-1615) (-)

12000

10000

8000

6000

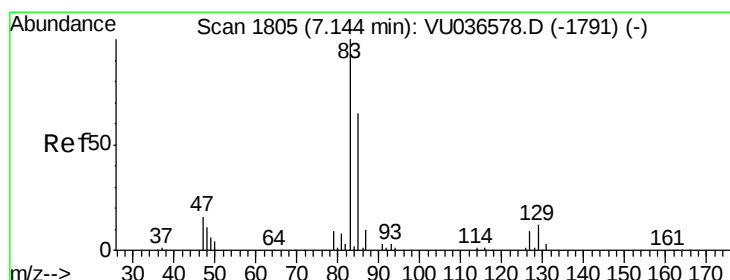
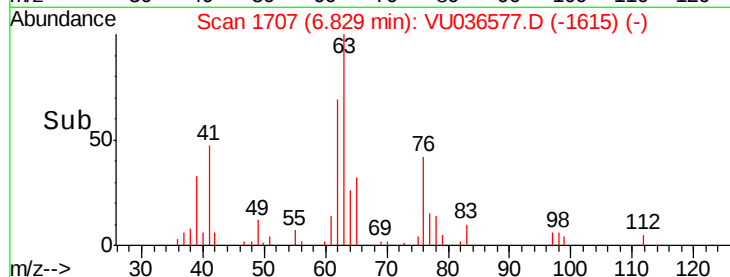
4000

2000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 10.107 ug/L

RT: 7.14 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

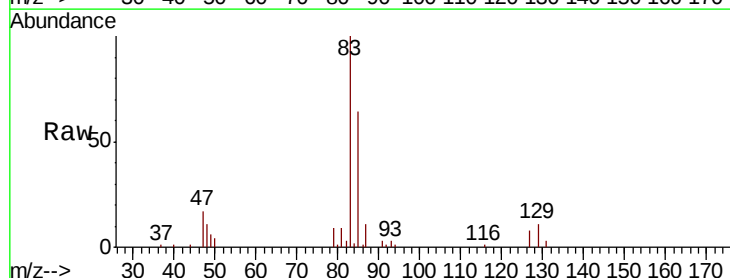
Tgt Ion: 83 Resp: 25151

Ion Ratio Lower Upper

83 100

85 63.6 45.4 84.4

127 7.5 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU036577.D (-1712) (-)

Ion 85.00 (84.70 to 85.70): VU036577.D (-1712) (-)

Ion 127.00 (126.70 to 127.70): VU036577.D (-1712) (-)

15000

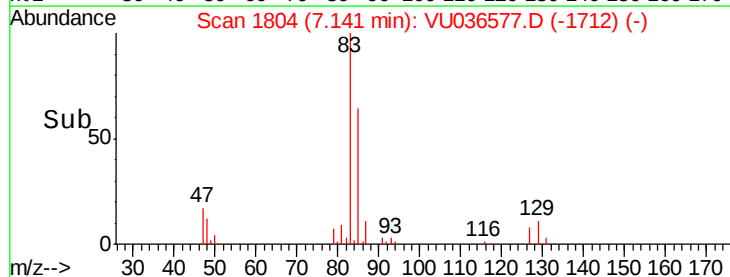
10000

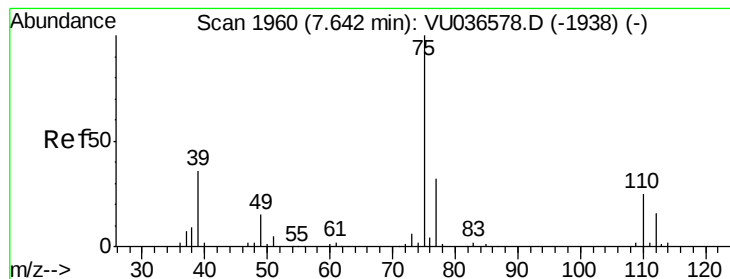
5000

0

7.10 7.15 7.20

Time-->



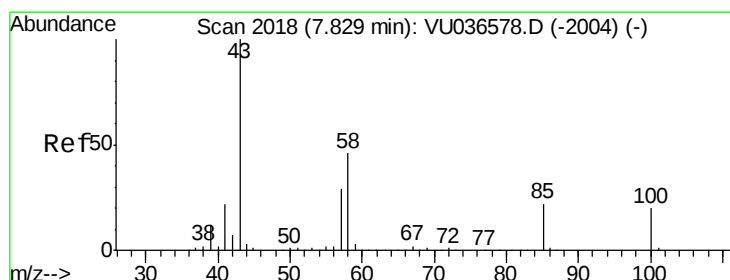
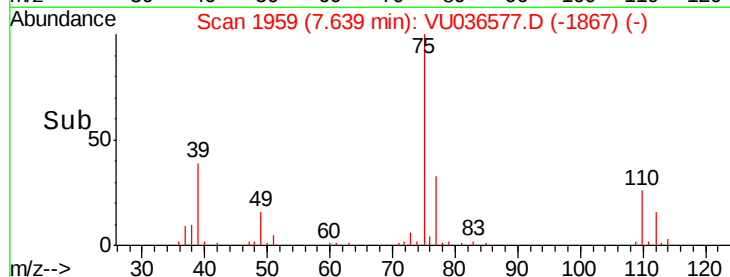
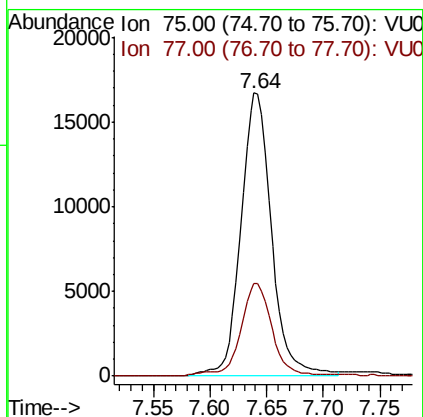
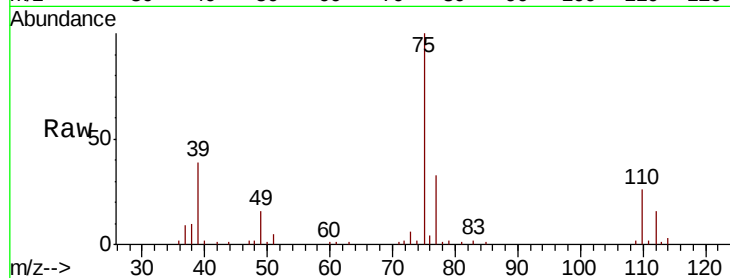


#39

cis-1,3-Dichloropropene
Concen: 10.673 ug/L
RT: 7.64 min Scan# 1959
Delta R.T. -0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Instrument :
MSVOA_U
ClientSampleId :

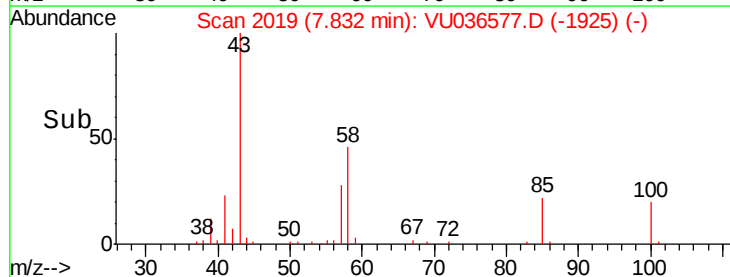
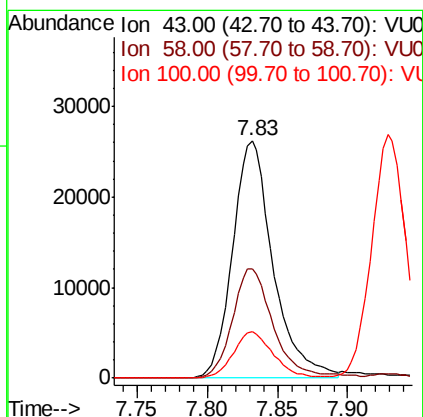
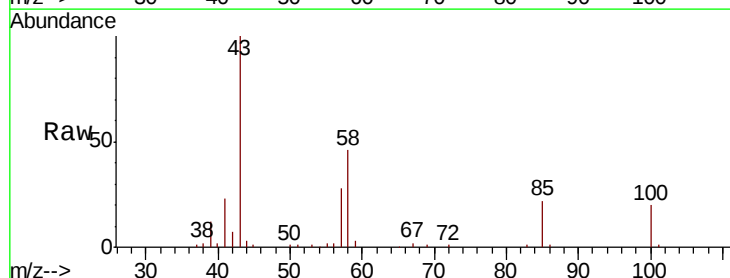
Tot Ion: 75 Resp: 31684
Ion Ratio Lower Upper
75 100
77 32.7 22.5 41.9

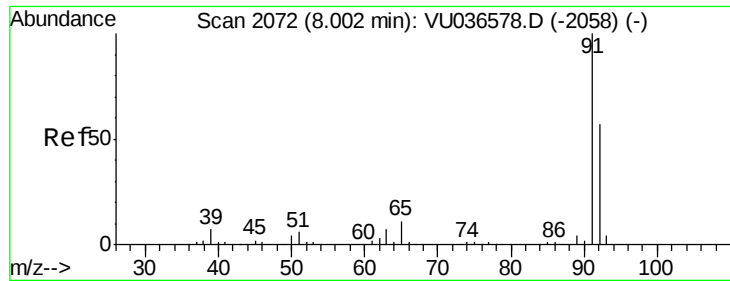


#40

4-Methyl-2-pentanone
Concen: 18.454 ug/L
RT: 7.83 min Scan# 2019
Delta R.T. 0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion: 43 Resp: 52662
Ion Ratio Lower Upper
43 100
58 45.8 37.0 55.4
100 19.1 15.8 23.6





#42

Toluene

Concen: 11.235 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

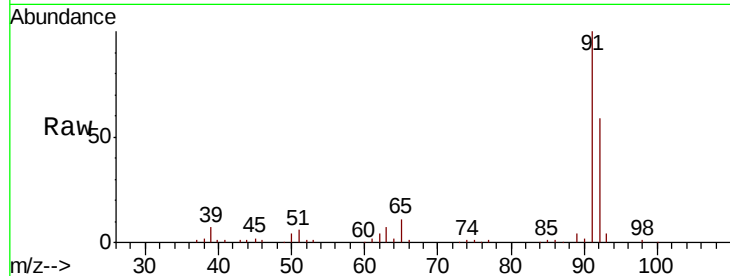
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 85121

Ion Ratio Lower Upper

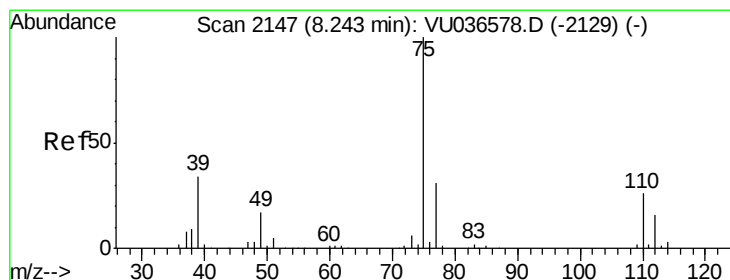
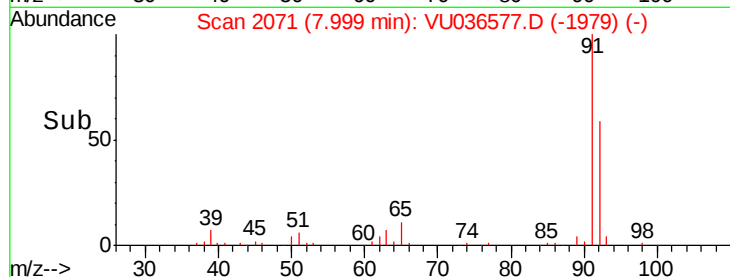
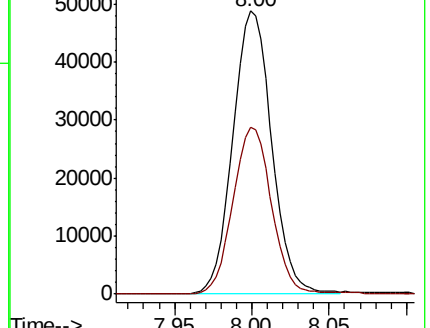
91 100

92 59.1 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU036578.D (-2058) (-)

Ion 92.00 (91.70 to 92.70): VU036578.D (-2058) (-)



#44

trans-1,3-Dichloropropene

Concen: 10.419 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036577.D

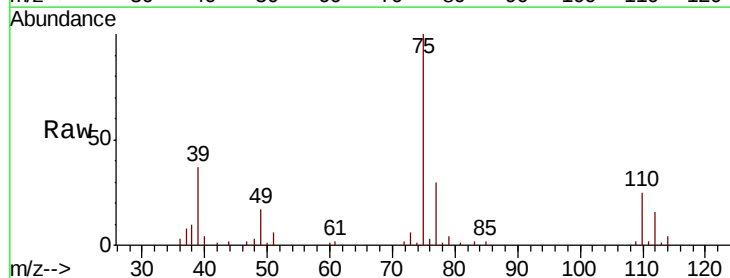
Acq: 28 Jan 2020 17:13

Tgt Ion: 75 Resp: 28315

Ion Ratio Lower Upper

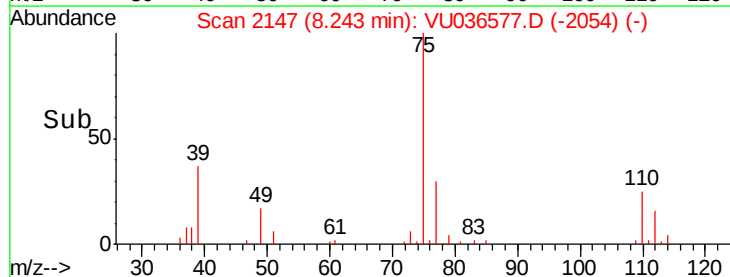
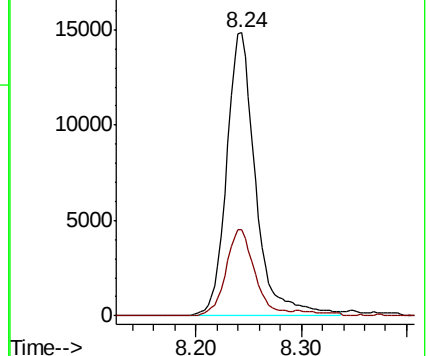
75 100

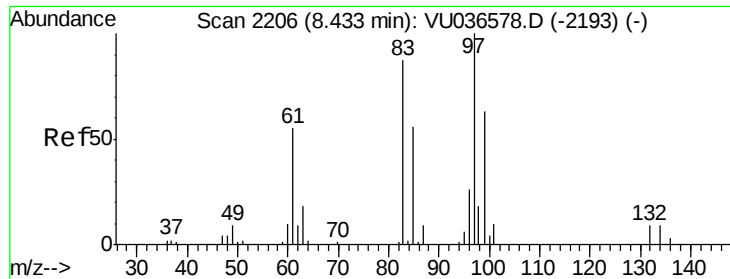
77 30.5 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU036578.D (-2129) (-)

Ion 77.00 (76.70 to 77.70): VU036578.D (-2129) (-)

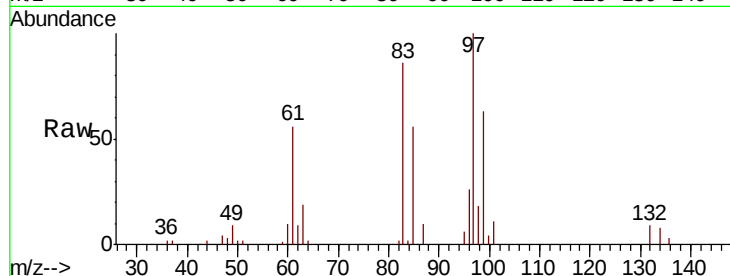




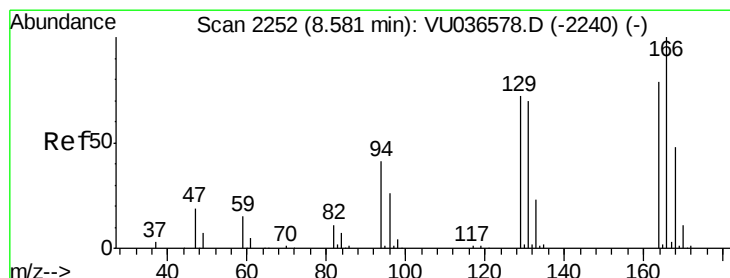
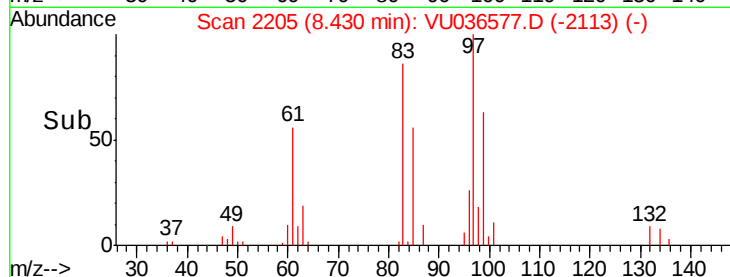
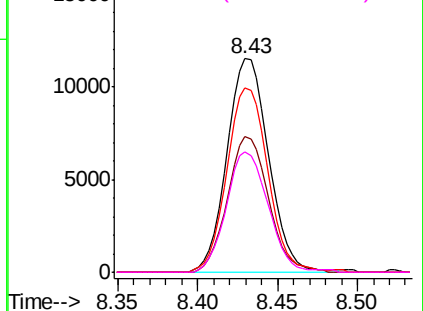
#45
1,1,2-Trichloroethane
Concen: 11.532 ug/L
RT: 8.43 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	97	Resp:	20487
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.1	81.9
83	86.3	61.2	113.6
85	56.3	39.2	72.8

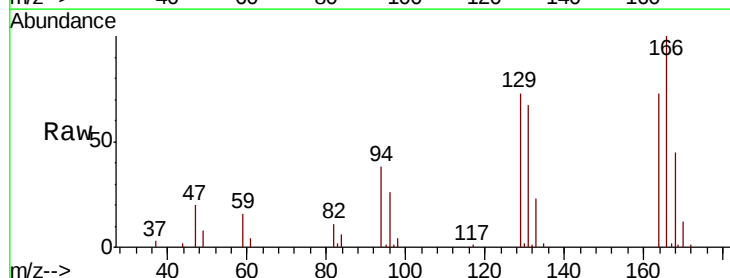


Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

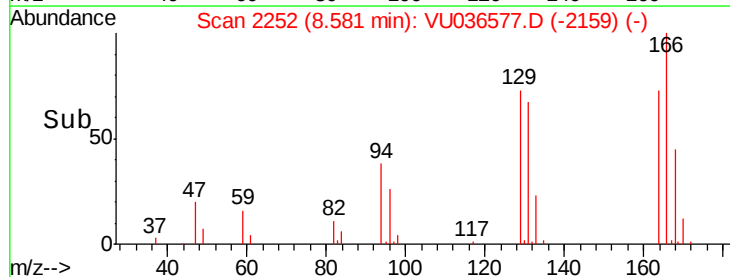
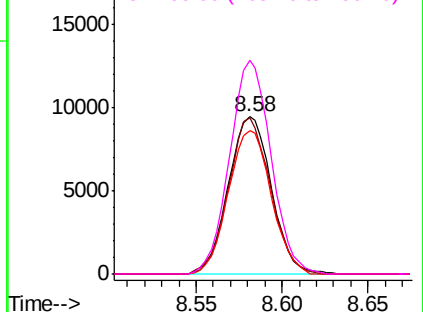


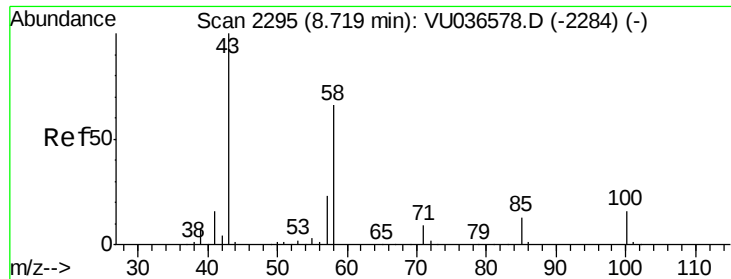
#46
Tetrachloroethene
Concen: 12.648 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. 0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion:	164	Resp:	16446
Ion	Ratio	Lower	Upper
164	100		
129	99.7	64.2	119.2
131	91.2	61.8	114.8
166	136.1	88.8	165.0



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

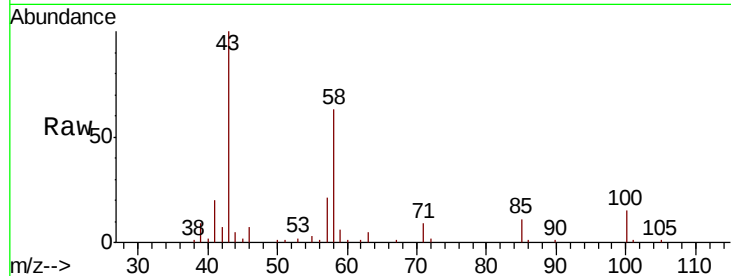




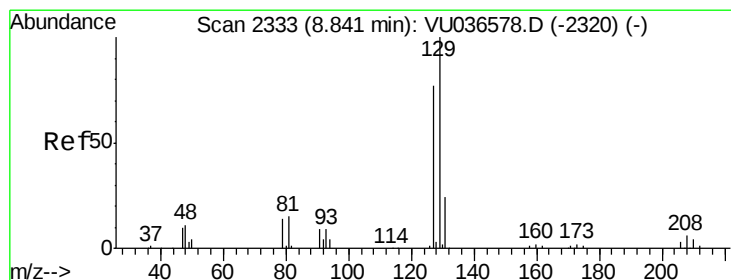
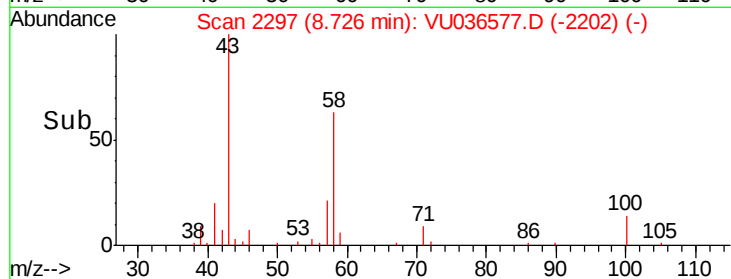
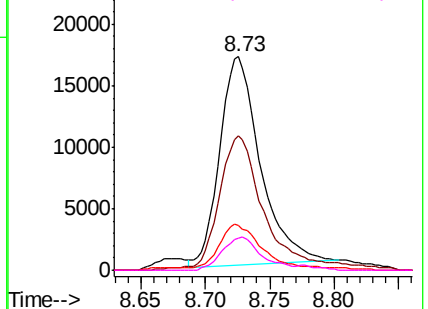
#48
2-Hexanone
Concen: 16.570 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.01 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 37384
Ion Ratio Lower Upper
43 100
58 69.9 49.4 74.0
57 21.5 17.1 25.7
100 15.1 11.9 17.9

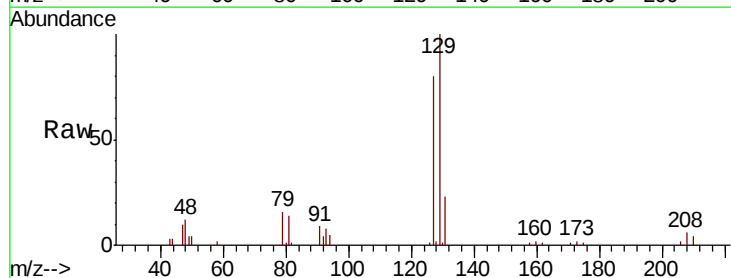


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

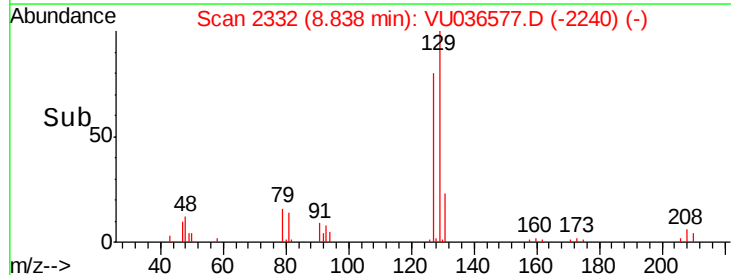
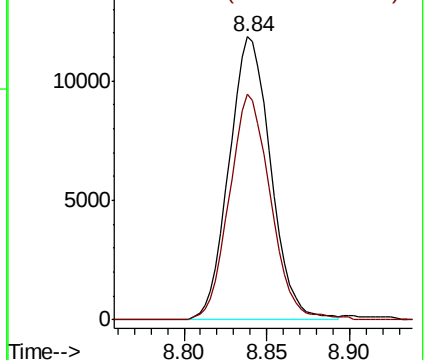


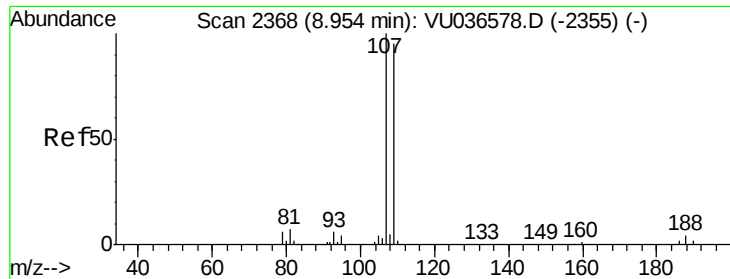
#49
Dibromochloromethane
Concen: 10.605 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. -0.00 min
Lab File: VU036577.D
Acq: 28 Jan 2020 17:13

Tgt Ion: 129 Resp: 20708
Ion Ratio Lower Upper
129 100
127 79.9 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

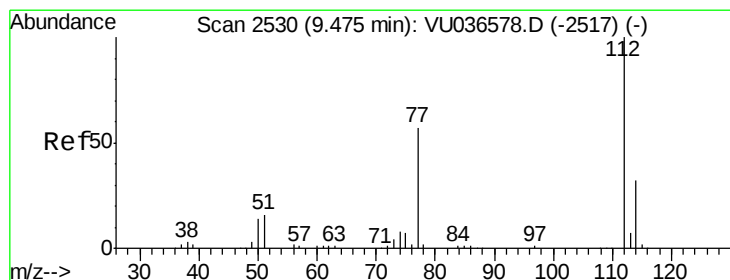
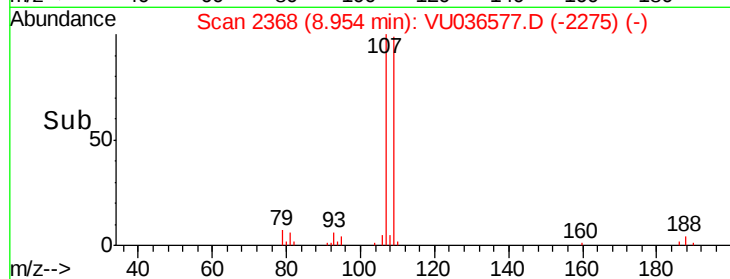
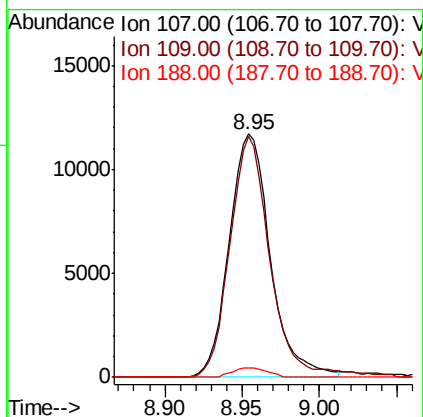
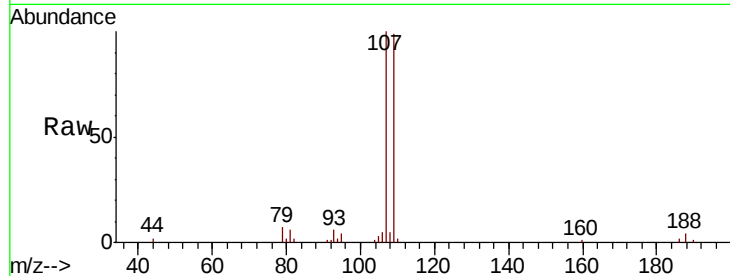




#50
 1,2-Dibromoethane
 Concen: 10.862 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VU036577.D
 Acq: 28 Jan 2020 17:13

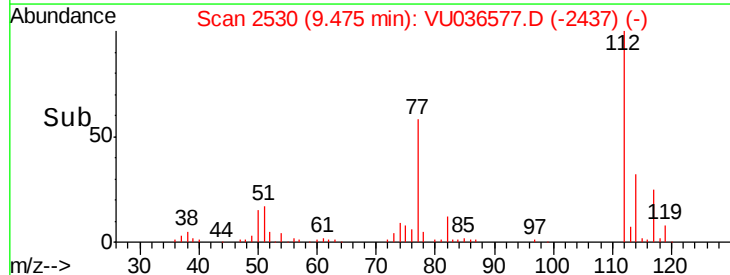
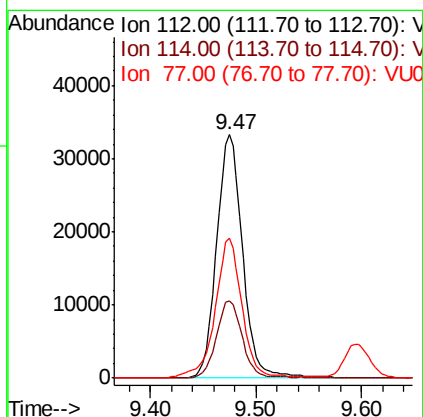
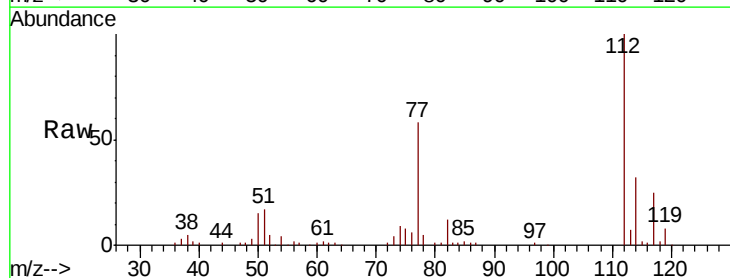
Instrument :
 MSVOA_U
 ClientSampleId :

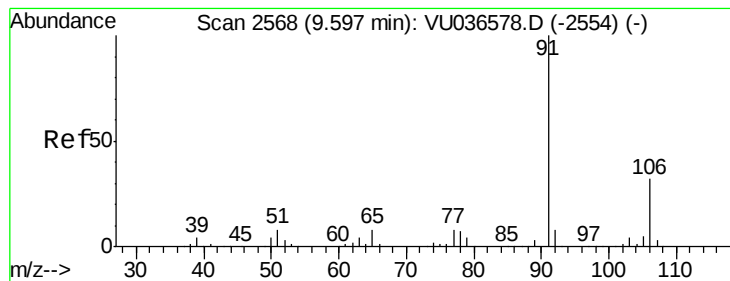
Tot Ion:107 Resp: 21666
 Ion Ratio Lower Upper
 107 100
 109 99.2 66.3 123.1
 188 4.0 3.1 4.7



#51
 Chlorobenzene
 Concen: 11.844 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036577.D
 Acq: 28 Jan 2020 17:13

Tgt Ion:112 Resp: 56794
 Ion Ratio Lower Upper
 112 100
 114 31.7 22.3 41.5
 77 57.5 45.7 68.5





#52

Ethylbenzene

Concen: 11.037 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

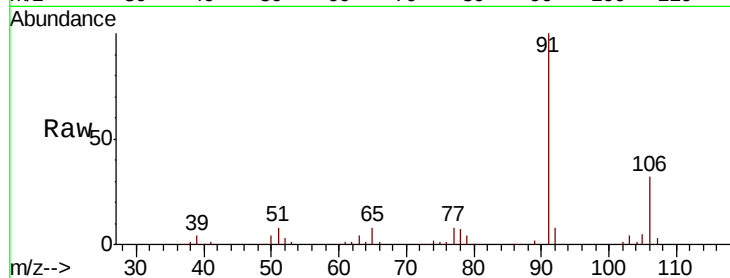
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 92863

Ion Ratio Lower Upper

91 100

106 32.0 22.6 42.0



Abundance Ion 91.00 (90.70 to 91.70): VU036577.D (-2513) (-)

Ion 106.00 (105.70 to 106.70): VU036577.D (-2513) (-)

9.60

60000

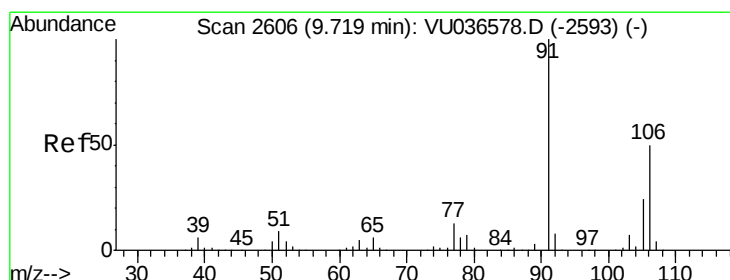
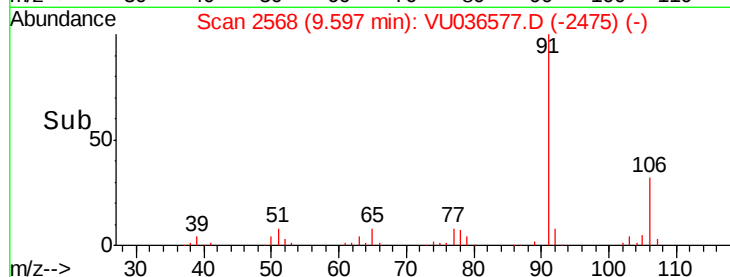
40000

20000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 11.543 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036577.D

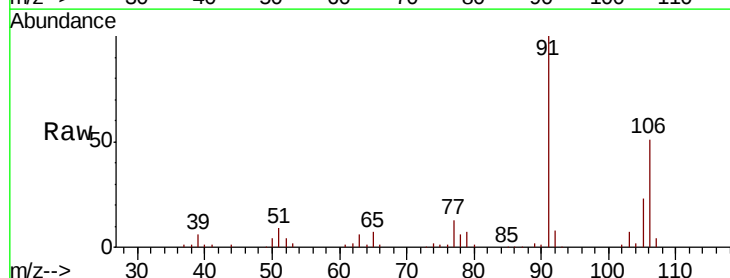
Acq: 28 Jan 2020 17:13

Tgt Ion: 106 Resp: 36659

Ion Ratio Lower Upper

106 100

91 196.9 139.4 259.0



Abundance Ion 106.00 (105.70 to 106.70): VU036577.D (-2513) (-)

Ion 91.00 (90.70 to 91.70): VU036577.D (-2513) (-)

9.72

50000

40000

30000

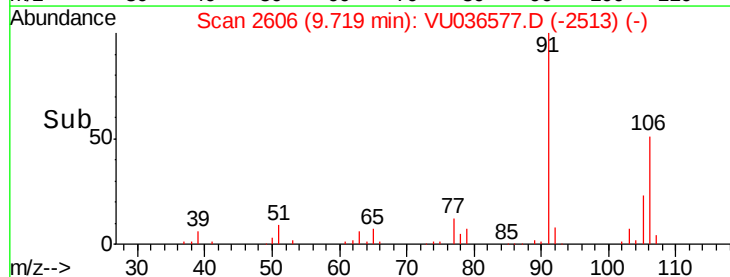
20000

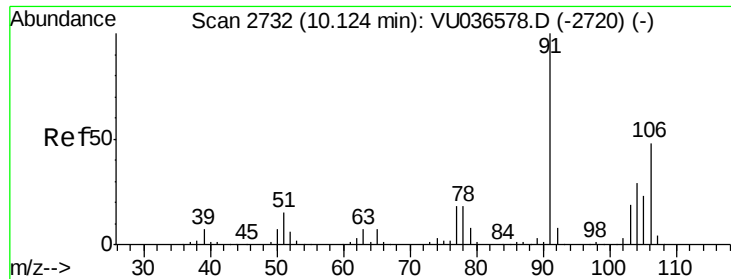
10000

0

9.65 9.70 9.75 9.80

Time-->





#54

o-xylene

Concen: 11.424 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

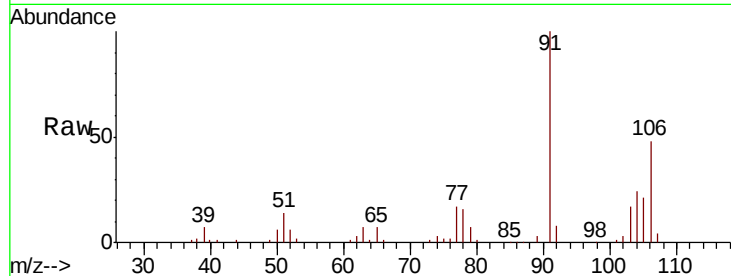
ClientSampled :

Tot Ion:106 Resp: 36320

Ion Ratio Lower Upper

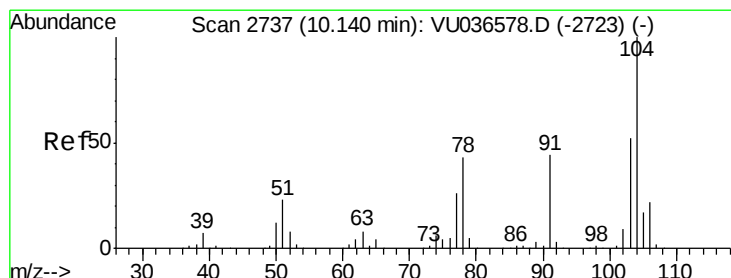
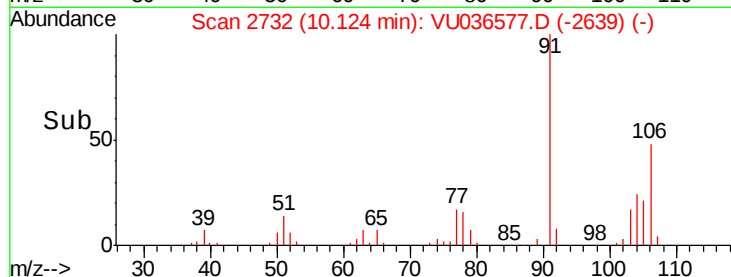
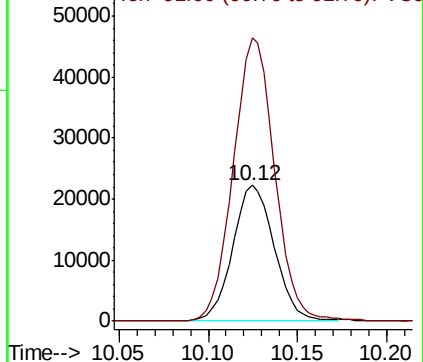
106 100

91 208.5 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 11.109 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036577.D

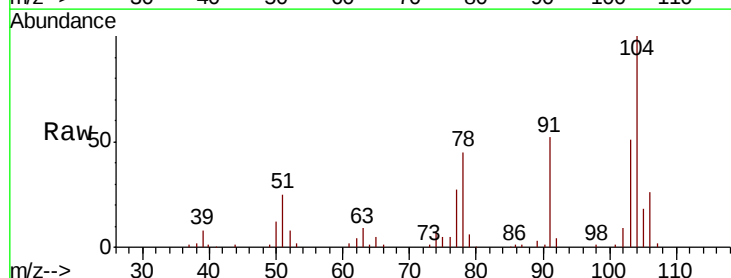
Acq: 28 Jan 2020 17:13

Tgt Ion:104 Resp: 57158

Ion Ratio Lower Upper

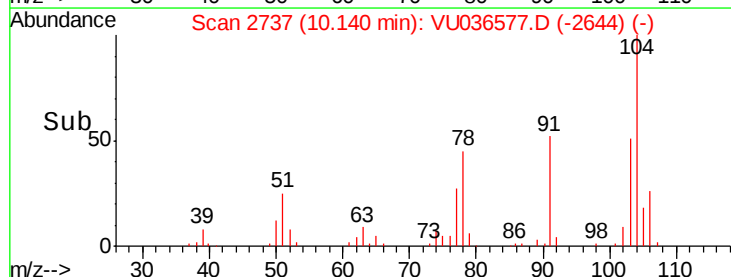
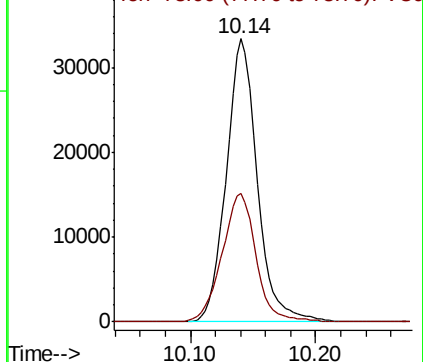
104 100

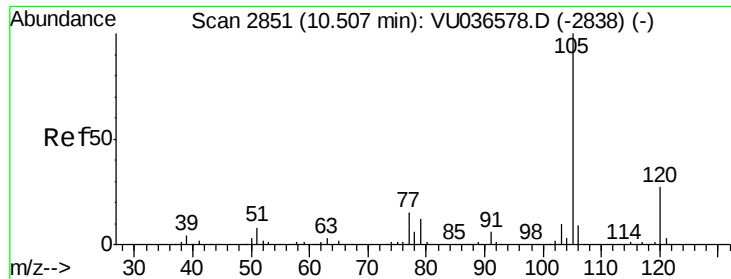
78 45.3 30.1 55.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 11.363 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

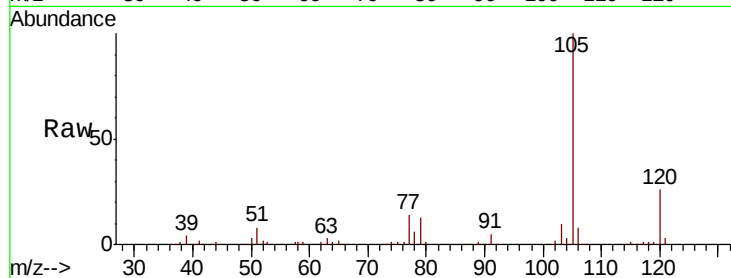
Tot Ion:105 Resp: 92065

Ion Ratio Lower Upper

105 100

120 26.6 21.6 32.4

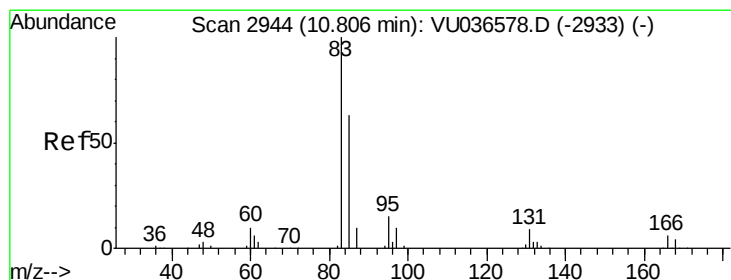
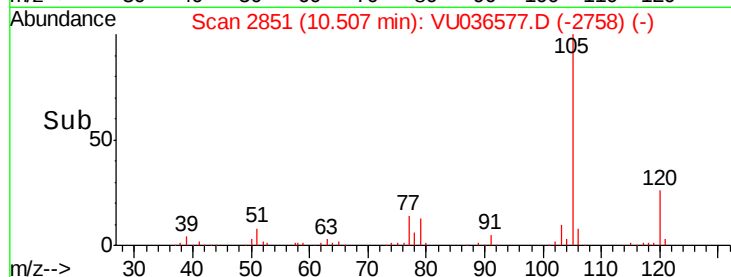
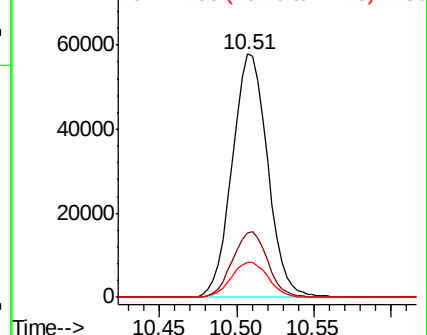
77 15.1 11.8 17.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 11.630 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

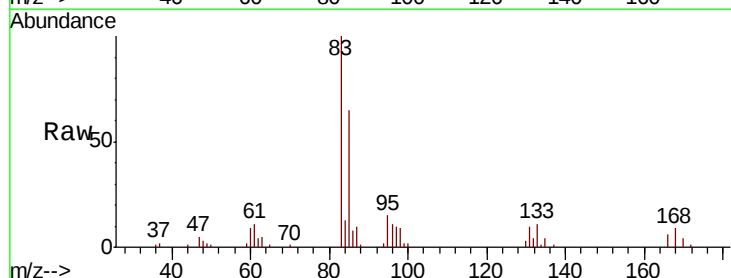
Tgt Ion: 83 Resp: 35738

Ion Ratio Lower Upper

83 100

85 65.0 44.5 82.7

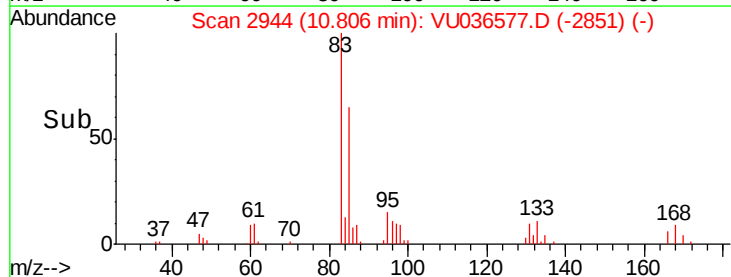
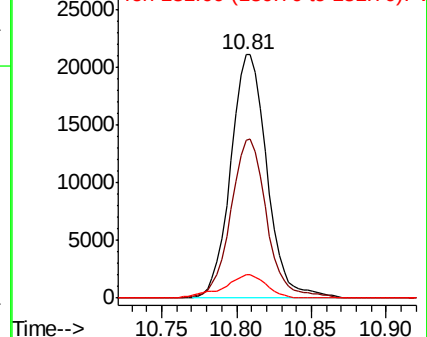
131 9.6 7.8 11.8

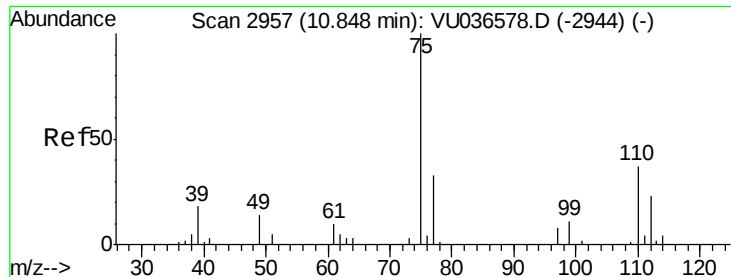


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 11.187 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

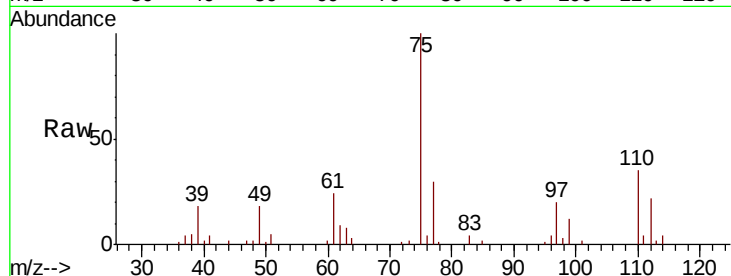
ClientSampleId :

Tot Ion: 75 Resp: 28250

Ion Ratio Lower Upper

75 100

77 31.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU036577.D (-2335) (-)

Ion 77.00 (76.70 to 77.70): VU036577.D (-2335) (-)

10.85

20000

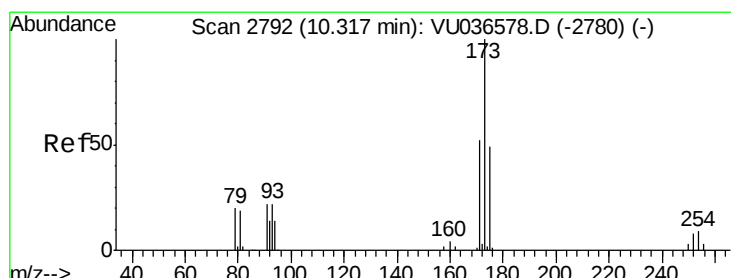
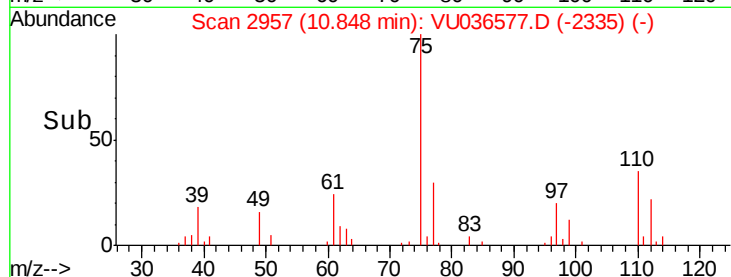
15000

10000

5000

0

Time-->



#61

Bromoform

Concen: 10.874 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

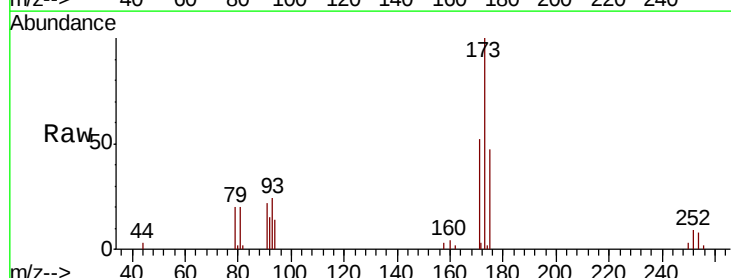
Tgt Ion: 173 Resp: 15650

Ion Ratio Lower Upper

173 100

175 46.3 39.3 58.9

254 7.5 6.6 10.0



Abundance Ion 173.00 (172.70 to 173.70): VU036577.D (-2699) (-)

Ion 175.00 (174.70 to 175.70): VU036577.D (-2699) (-)

Ion 254.00 (253.70 to 254.70): VU036577.D (-2699) (-)

10.32

12000

10000

8000

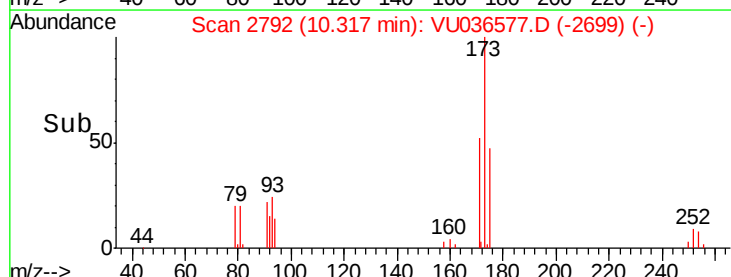
6000

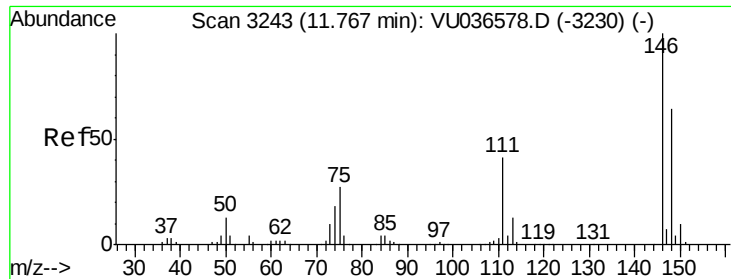
4000

2000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 12.003 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

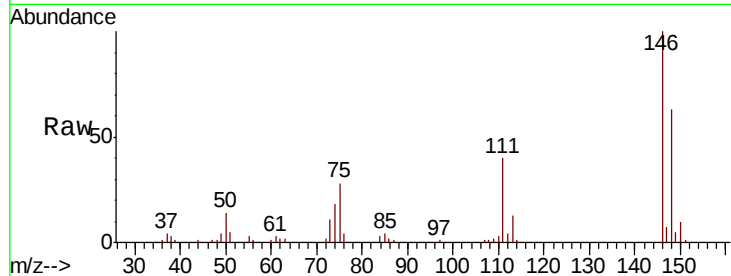
Tot Ion:146 Resp: 40587

Ion Ratio Lower Upper

146 100

111 40.4 28.6 53.0

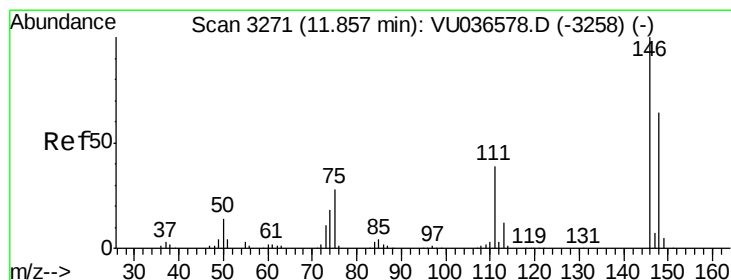
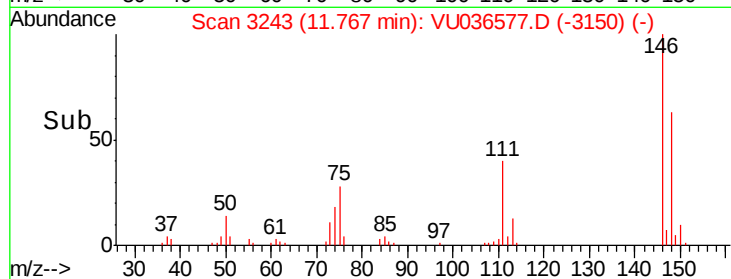
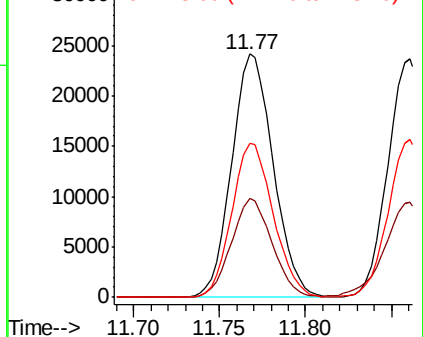
148 63.5 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 11.854 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

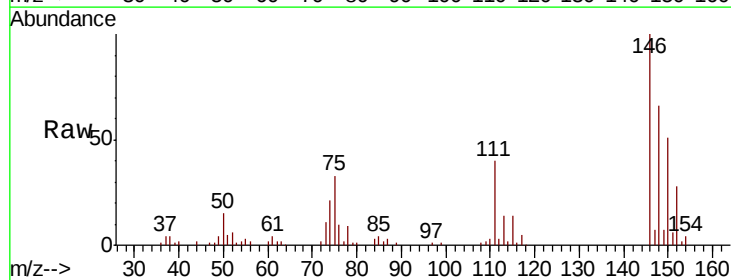
Tgt Ion:146 Resp: 40007

Ion Ratio Lower Upper

146 100

111 39.9 27.2 50.4

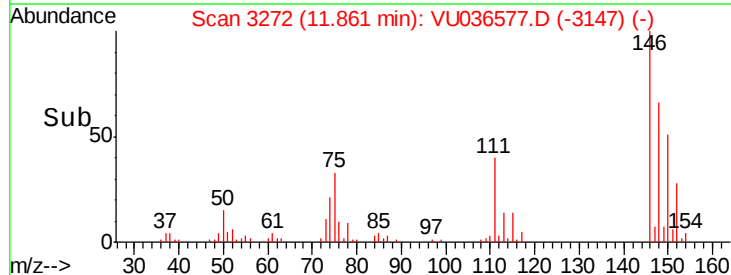
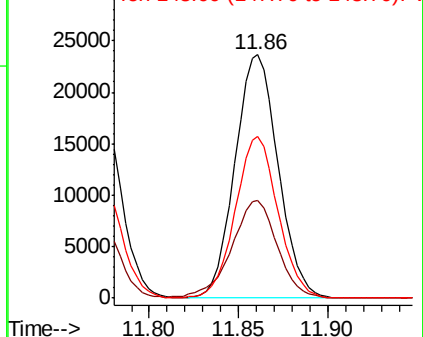
148 66.2 44.8 83.2

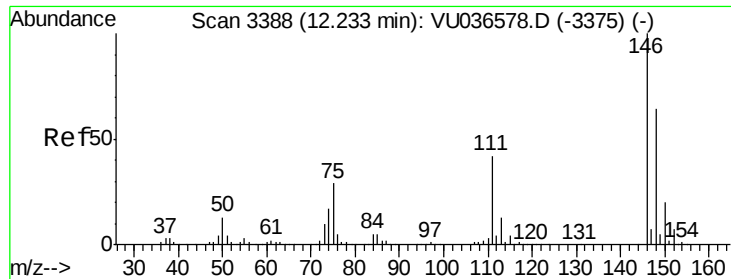


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 12.730 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

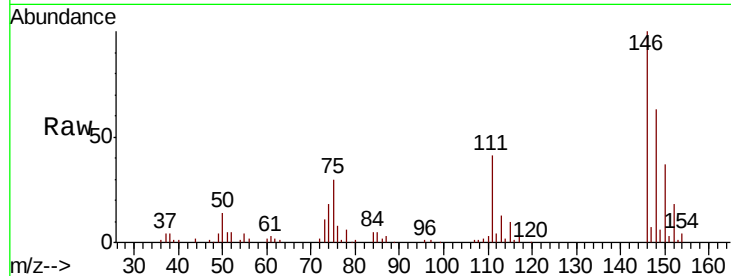
Tot Ion:146 Resp: 42554

Ion Ratio Lower Upper

146 100

111 41.2 33.4 50.2

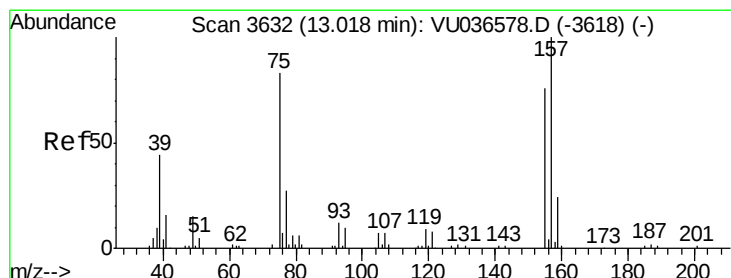
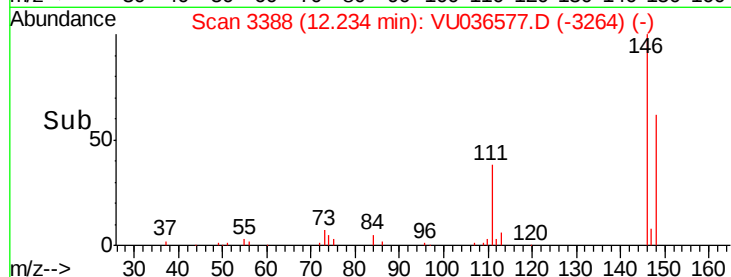
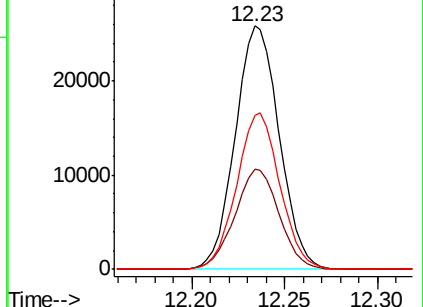
148 63.3 51.3 76.9



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



#66

1,2-Dibromo-3-chloropropane

Concen: 9.069 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

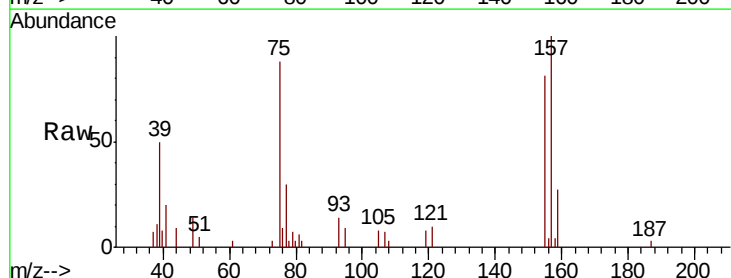
Tgt Ion: 75 Resp: 6365

Ion Ratio Lower Upper

75 100

155 92.2 73.4 110.2

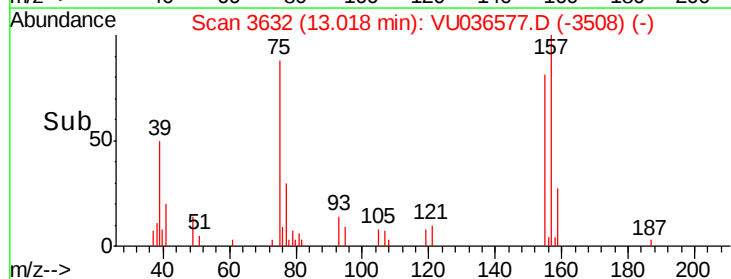
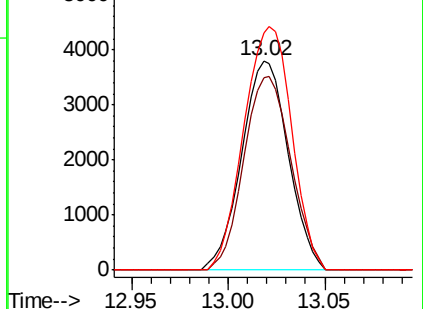
157 113.2 96.8 145.2

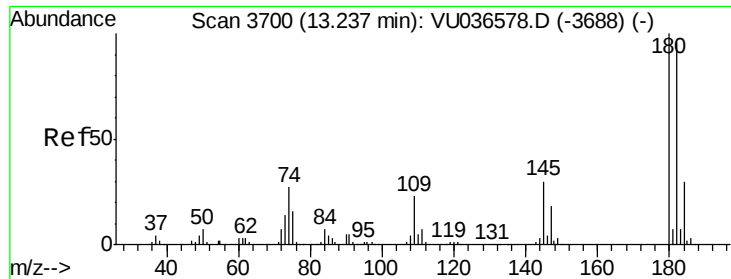


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

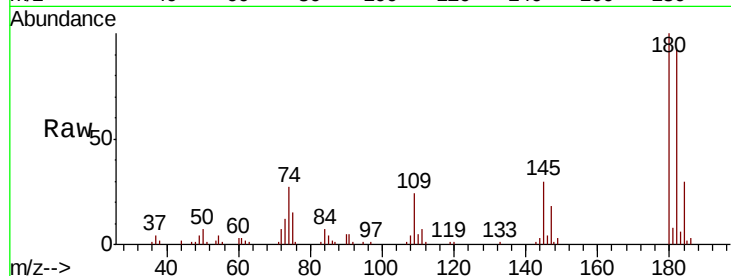




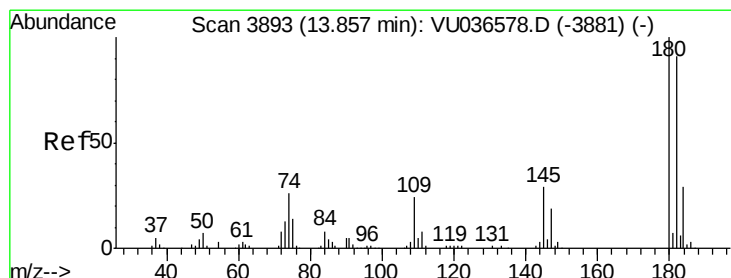
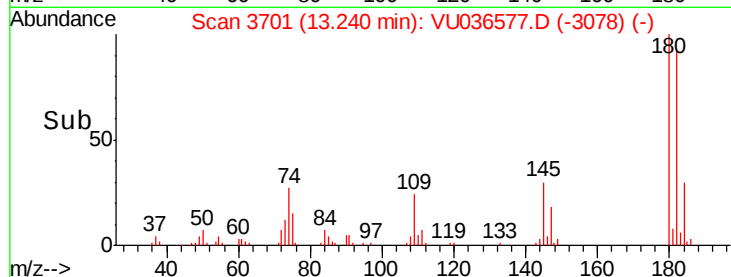
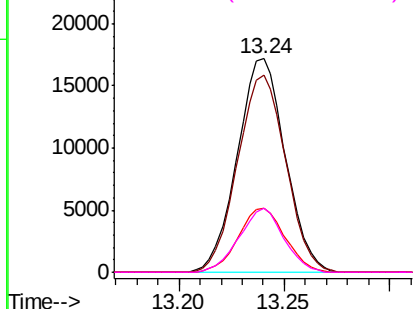
#67
 1,3,5-Trichlorobenzene
 Concen: 12.881 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036577.D
 Acq: 28 Jan 2020 17:13

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:180 Resp: 27169
 Ion Ratio Lower Upper
 180 100
 182 92.6 76.6 115.0
 184 29.2 24.2 36.4
 145 27.8 23.3 34.9

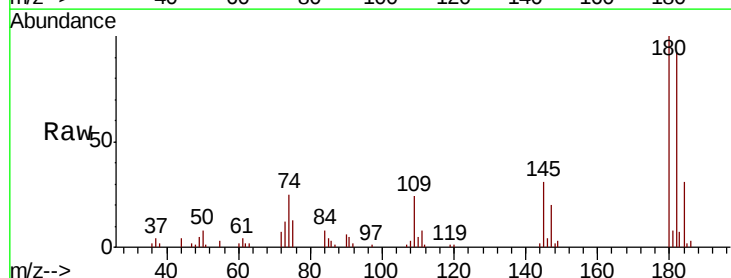


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

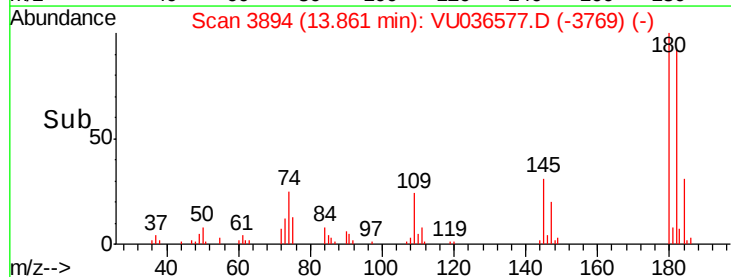
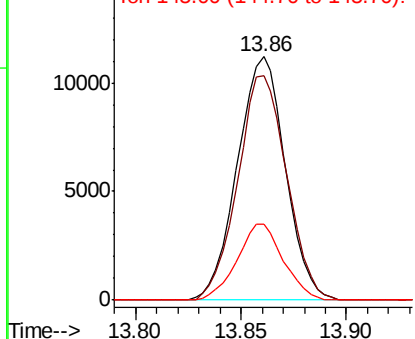


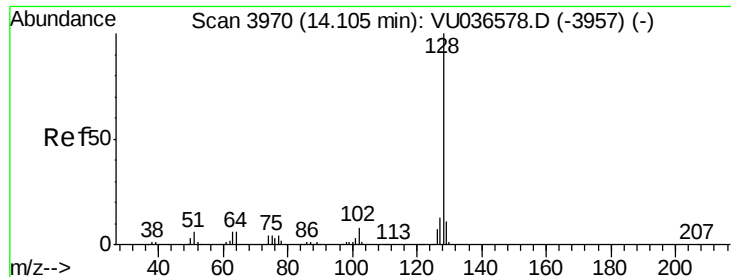
#68
 1,2,4-trichlorobenzene
 Concen: 11.354 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036577.D
 Acq: 28 Jan 2020 17:13

Tgt Ion:180 Resp: 17701
 Ion Ratio Lower Upper
 180 100
 182 94.0 74.9 112.3
 145 30.0 23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 9.361 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

Instrument :

MSVOA_U

ClientSampleId :

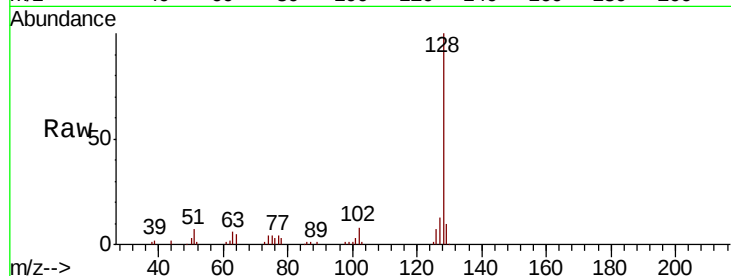
Tot Ion:128 Resp: 47994

Ion Ratio Lower Upper

128 100

127 12.7 10.6 15.8

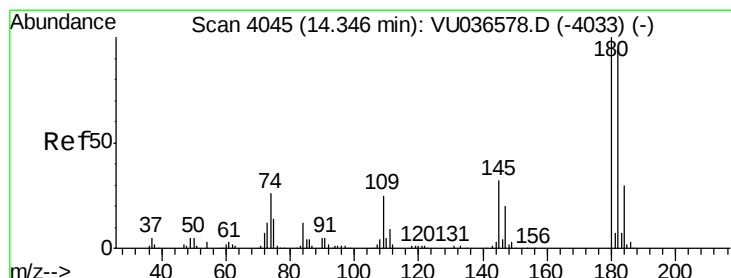
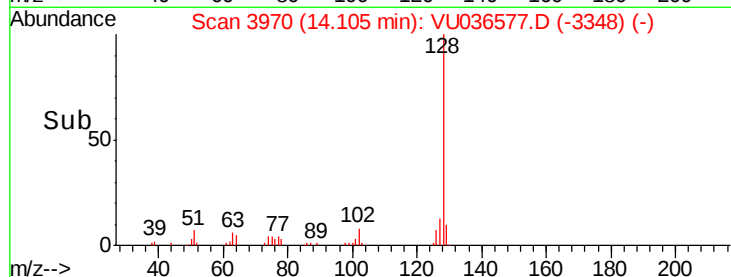
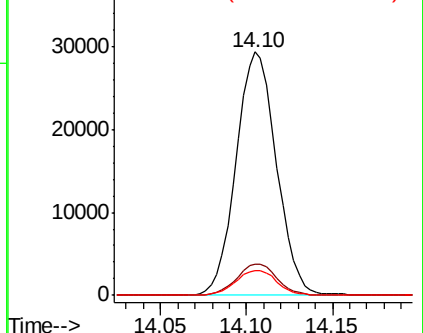
129 10.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 11.990 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036577.D

Acq: 28 Jan 2020 17:13

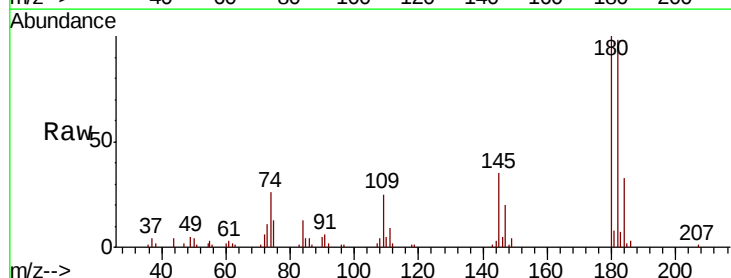
Tgt Ion:180 Resp: 19449

Ion Ratio Lower Upper

180 100

182 98.7 76.1 114.1

145 34.3 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

