

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011420\
 Data File : VU036450.D
 Acq On : 14 Jan 2020 16:59
 Operator : JC/MD
 Sample : VSTD01034
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 15 00:04:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jan 15 00:01:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	493435	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	481509	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	189420	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	33038	8.87	ug/L	0.00
7) Chloroethane-d5	1.93	69	28159	8.91	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	63858	9.78	ug/L	0.00
21) 2-Butanone-d5	4.68	46	54456	19.08	ug/L	0.00
24) Chloroform-d	5.11	84	66337	9.92	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	45049	10.13	ug/L	0.00
32) Benzene-d6	5.77	84	129694	9.72	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	41145	9.22	ug/L	0.00
41) Toluene-d8	7.93	98	122598	9.60	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	22565	9.34	ug/L	0.00
47) 2-Hexanone-d5	8.67	63	41063	17.71	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	59975	8.87	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	38992	9.80	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	51120	12.420 ug/L	97
3) Chloromethane	1.54	50	44283	11.851 ug/L	96
5) Vinyl chloride	1.62	62	44818	10.625 ug/L	96
6) Bromomethane	1.87	94	26704	12.543 ug/L	98
8) Chloroethane	1.95	64	26847	10.683 ug/L	90
9) Trichlorofluoromethane	2.16	101	60714	10.327 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	33211	11.260 ug/L	99
12) 1,1-Dichloroethene	2.61	96	32622	11.216 ug/L	94
13) Acetone	2.66	43	68659	22.831 ug/L	99
14) Carbon disulfide	2.82	76	100724	11.126 ug/L	97
15) Methyl Acetate	2.99	43	42470	10.475 ug/L	98
16) Methylene chloride	3.08	84	38780	10.915 ug/L	94
17) trans-1,2-Dichloroethene	3.39	96	33837	10.844 ug/L	97
18) Methyl tert-butyl Ether	3.41	73	119110	10.526 ug/L	99
19) 1,1-Dichloroethane	3.92	63	65575	10.485 ug/L	93
20) cis-1,2-Dichloroethene	4.71	96	39122	10.352 ug/L	98
22) 2-Butanone	4.76	43	67344	19.107 ug/L	100
23) Bromochloromethane	5.02	128	19609	10.879 ug/L	96
25) Chloroform	5.14	83	69514	10.464 ug/L	97
27) 1,2-Dichloroethane	5.84	62	55909	10.808 ug/L	99
29) Cyclohexane	5.43	56	63327	11.156 ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	59589	10.009 ug/L	97
31) Carbon tetrachloride	5.57	117	51166	9.892 ug/L	99
33) Benzene	5.82	78	149403	10.448 ug/L	100
34) Trichloroethene	6.58	95	38435	10.352 ug/L	99
35) Methylcyclohexane	6.80	83	60897	10.339 ug/L	97
37) 1,2-Dichloropropane	6.83	63	39146	10.184 ug/L	# 98
38) Bromodichloromethane	7.14	83	51905	9.583 ug/L	96
39) cis-1,3-Dichloropropene	7.64	75	58315	9.006 ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	122769	18.927 ug/L	100

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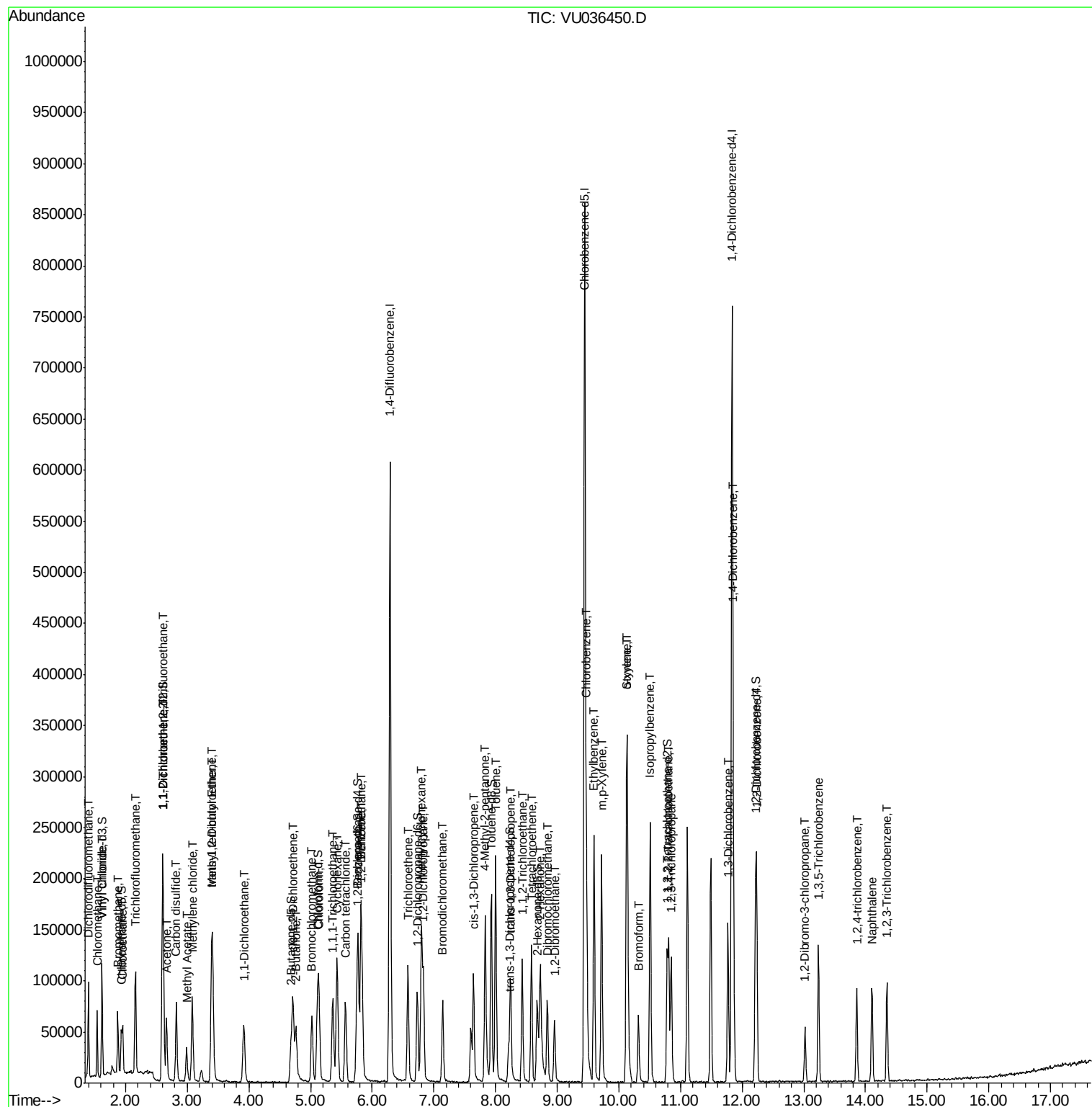
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	156730	9.954	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	57129	9.513	ug/L	96
45) 1,1,2-Trichloroethane	8.43	97	36949	10.285	ug/L	93
46) Tetrachloroethene	8.58	164	26408	9.971	ug/L	96
48) 2-Hexanone	8.73	43	87686	17.590	ug/L	97
49) Dibromochloromethane	8.84	129	40398	9.244	ug/L	94
50) 1,2-Dibromoethane	8.96	107	40584	9.716	ug/L	98
51) Chlorobenzene	9.47	112	97979	9.891	ug/L	96
52) Ethylbenzene	9.60	91	177002	9.920	ug/L	99
53) m,p-Xylene	9.72	106	65296	9.872	ug/L	98
54) o-xylene	10.12	106	68609	10.319	ug/L	91
55) Styrene	10.14	104	103349	9.238	ug/L	96
56) Isopropylbenzene	10.51	105	168633	9.747	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	65028	9.604	ug/L	97
59) 1,2,3-Trichloropropane	10.85	75	52780	9.761	ug/L	99
61) Bromoform	10.32	173	27723	9.863	ug/L	97
62) 1,3-Dichlorobenzene	11.77	146	64390	10.423	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	63806	10.368	ug/L	97
65) 1,2-Dichlorobenzene	12.23	146	64420	10.416	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	13656	9.553	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	35793	8.879	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	23540	7.735	ug/L	97
69) Naphthalene	14.10	128	72089	6.996	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	27092	8.558	ug/L	95

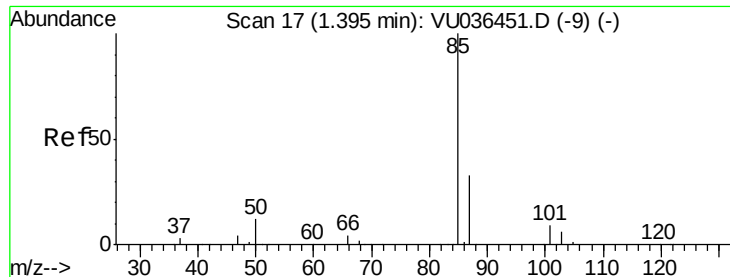
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 12.420 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

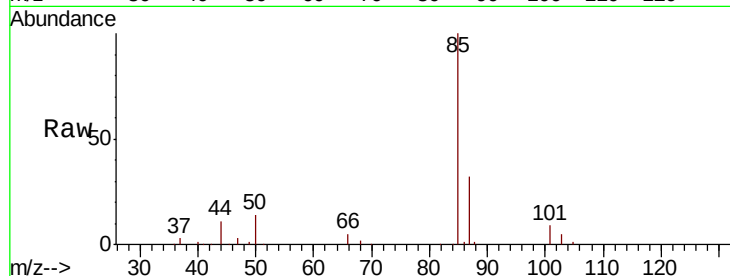
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 51120

Ion Ratio Lower Upper

85 100

87 34.0 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036450.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036450.D (-9) (-)

1.39

60000

50000

40000

30000

20000

10000

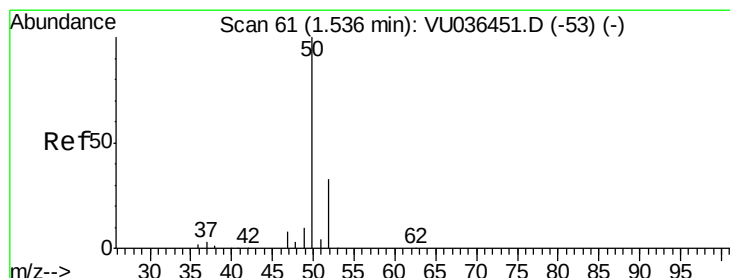
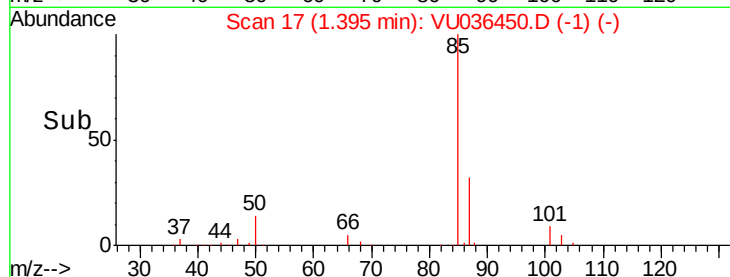
0

Time-->

1.35

1.40

1.45



#3

Chloromethane

Concen: 11.851 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036450.D

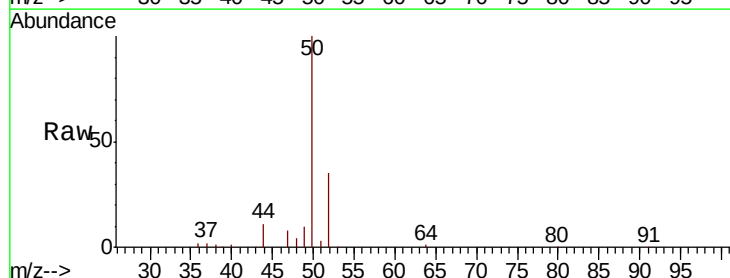
Acq: 14 Jan 2020 16:59

Tgt Ion: 50 Resp: 44283

Ion Ratio Lower Upper

50 100

52 35.0 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VU036450.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036450.D (-53) (-)

1.54

40000

30000

20000

10000

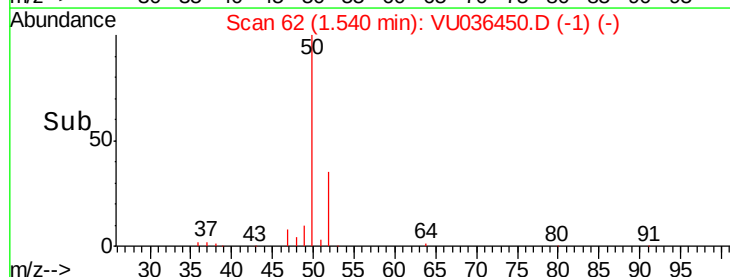
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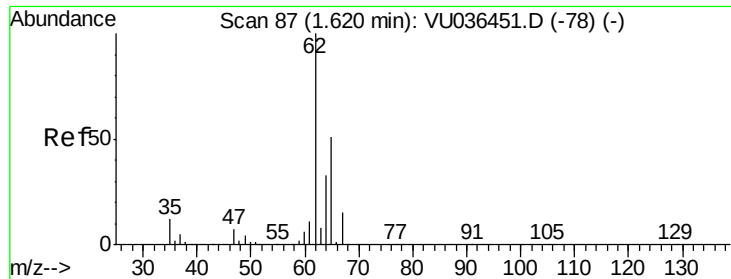
Time-->

1.50

1.55

1.60





#5

Vinyl chloride

Concen: 10.625 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

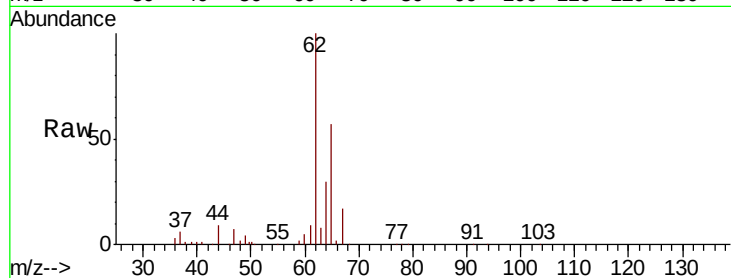
ClientSampleId :

Tot Ion: 62 Resp: 44818

Ion Ratio Lower Upper

62 100

64 30.4 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU036450.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU036450.D (-1) (-)

1.62

40000

30000

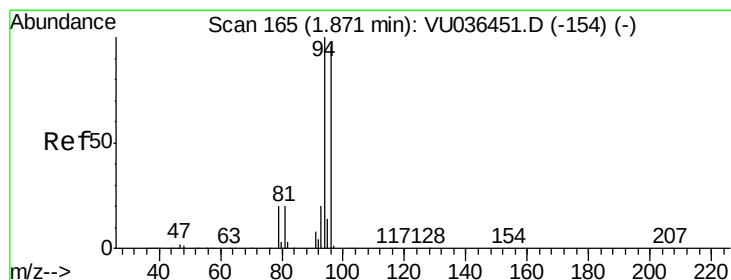
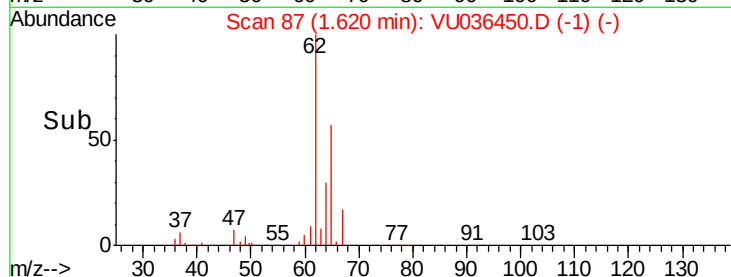
20000

10000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 12.543 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036450.D

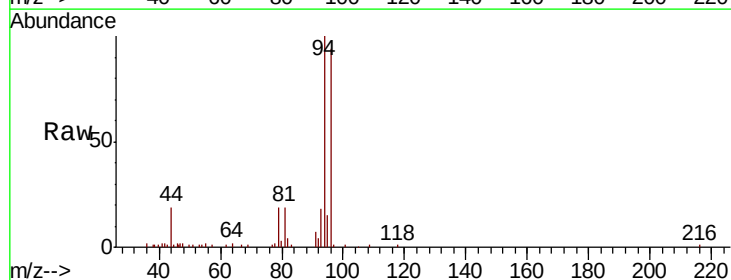
Acq: 14 Jan 2020 16:59

Tgt Ion: 94 Resp: 26704

Ion Ratio Lower Upper

94 100

96 93.8 67.1 124.7



Abundance Ion 94.00 (93.70 to 94.70): VU036450.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU036450.D (-72) (-)

1.87

25000

20000

15000

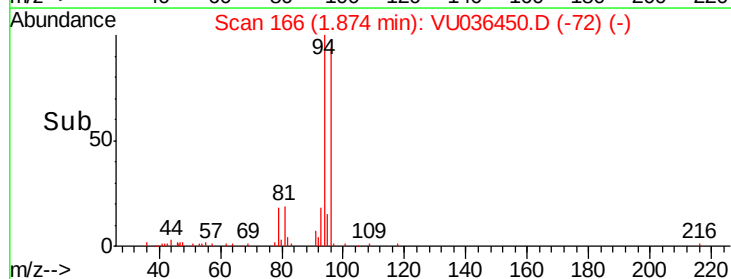
10000

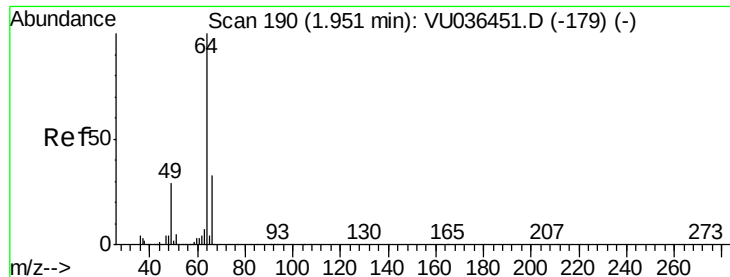
5000

0

1.85 1.90

Time-->

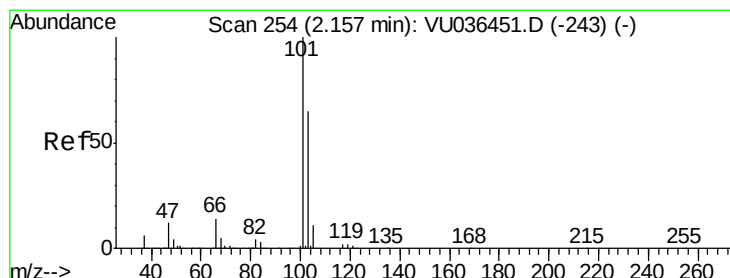
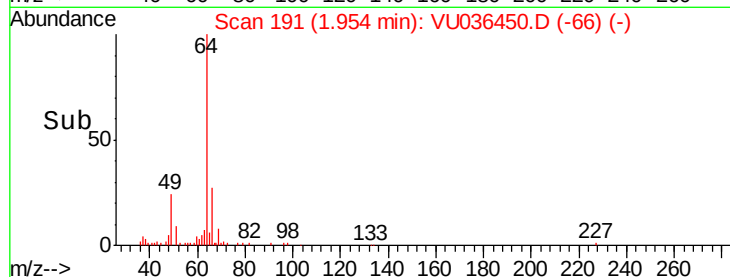
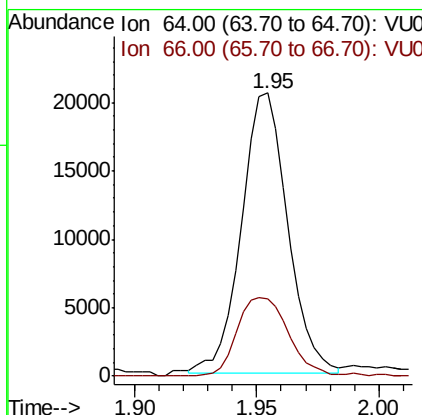
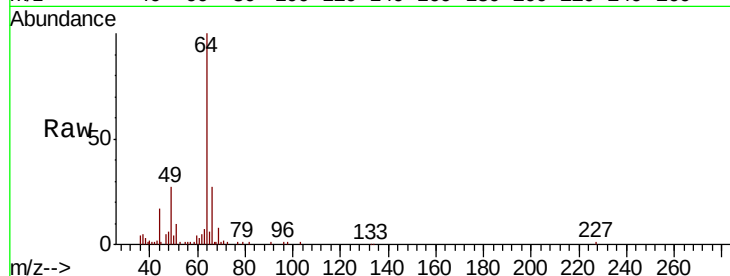




#8
Chloroethane
Concen: 10.683 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

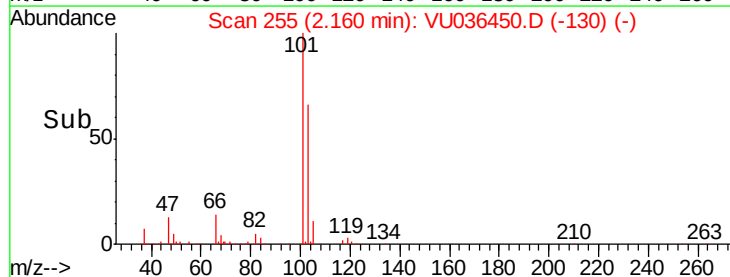
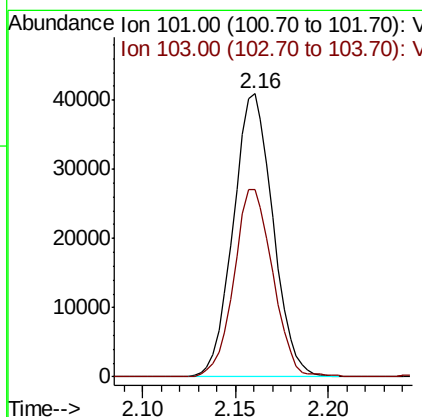
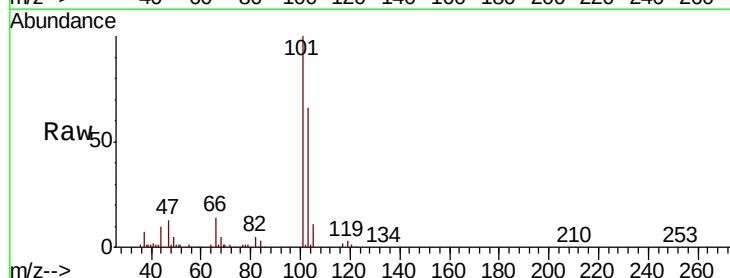
Instrument :
MSVOA_U
ClientSampleId :

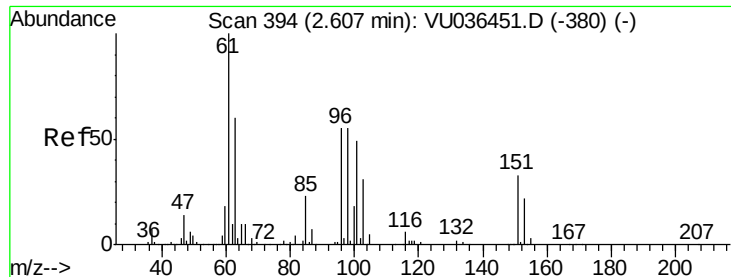
Tot Ion: 64 Resp: 26847
Ion Ratio Lower Upper
64 100
66 27.1 23.1 42.9



#9
Trichlorofluoromethane
Concen: 10.327 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

Tgt Ion: 101 Resp: 60714
Ion Ratio Lower Upper
101 100
103 64.4 52.0 78.0





#10

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

Concen: 11.260 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampleId :

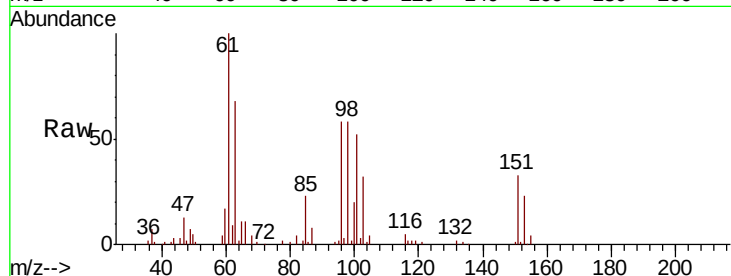
Tot Ion:101 Resp: 33211

Ion Ratio Lower Upper

101 100

85 46.2 36.7 55.1

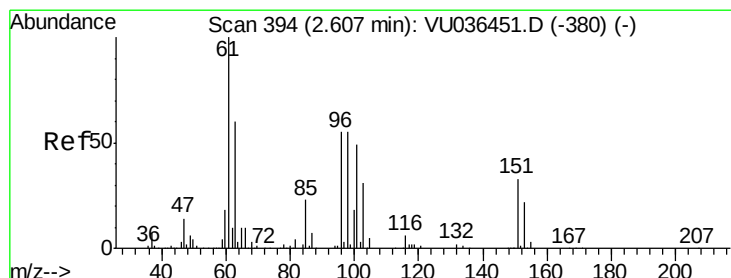
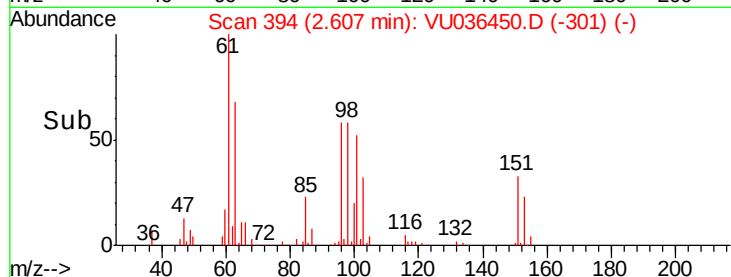
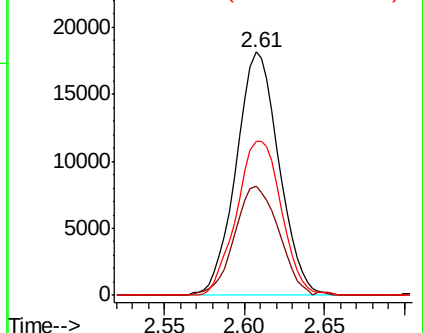
151 65.9 53.3 79.9



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: 11.216 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

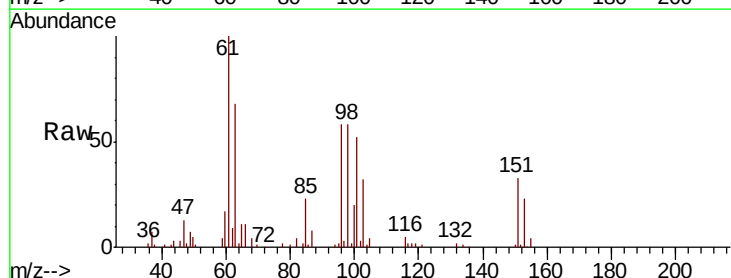
Tgt Ion: 96 Resp: 32622

Ion Ratio Lower Upper

96 100

61 173.5 128.2 238.2

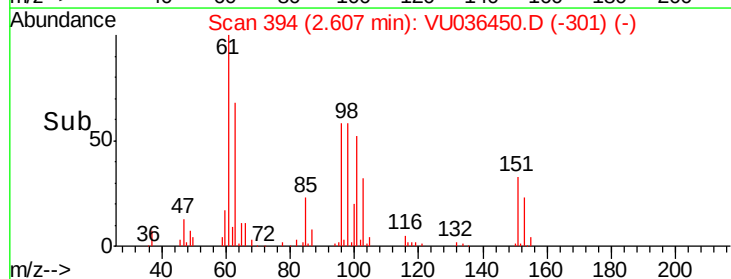
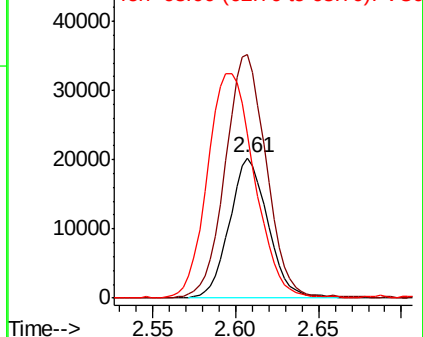
63 117.3 79.1 146.9

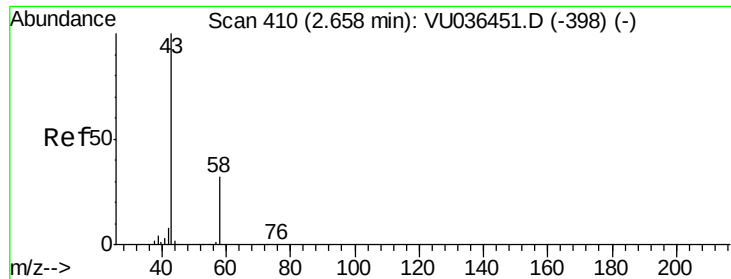


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 22.831 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

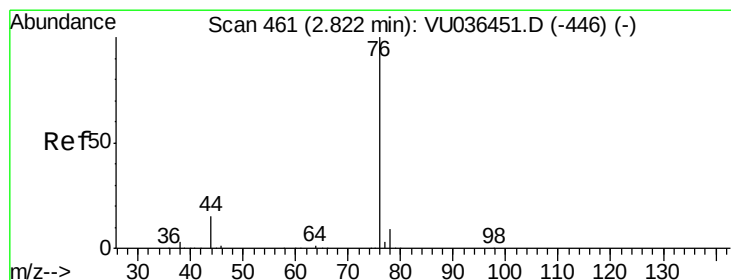
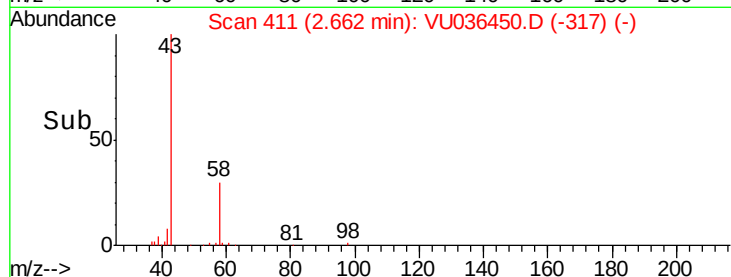
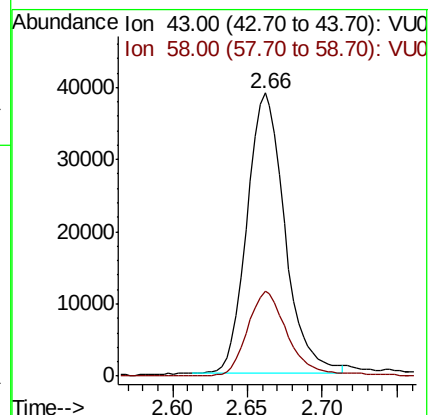
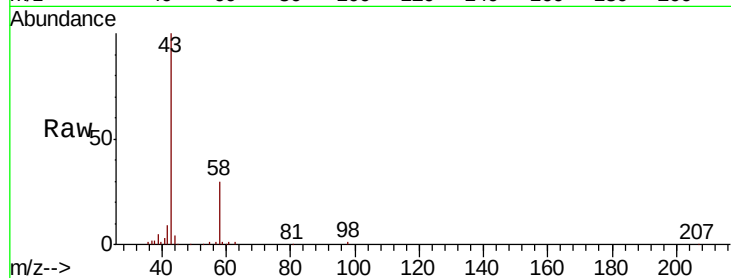
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 68659

Ion Ratio Lower Upper

43 100

58 31.7 0.0 65.0



#14

Carbon disulfide

Concen: 11.126 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036450.D

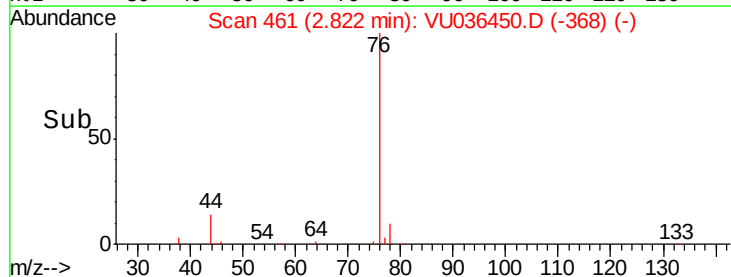
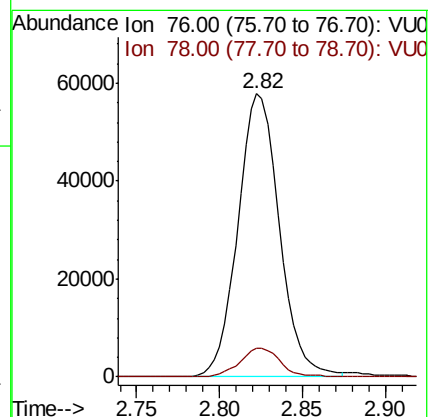
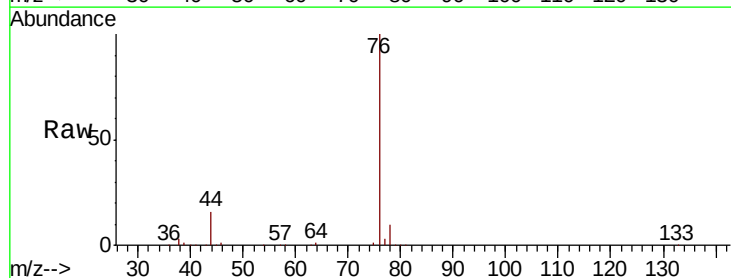
Acq: 14 Jan 2020 16:59

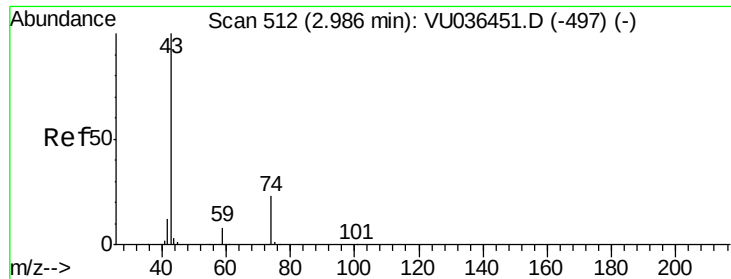
Tgt Ion: 76 Resp: 100724

Ion Ratio Lower Upper

76 100

78 10.2 7.3 10.9

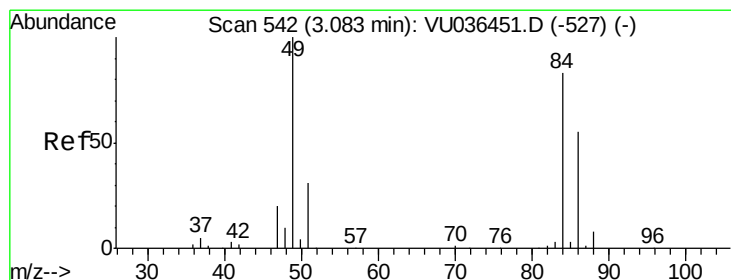
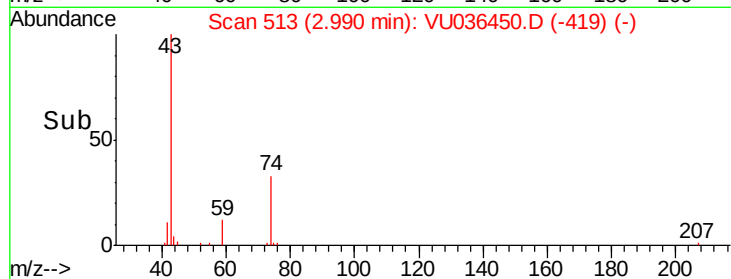
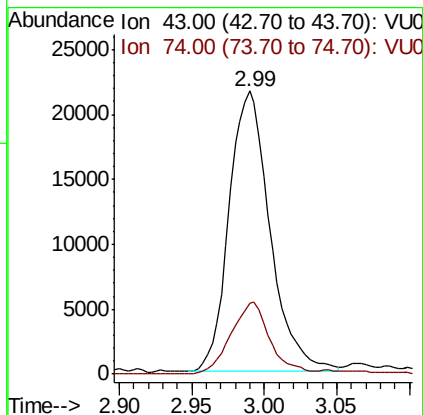
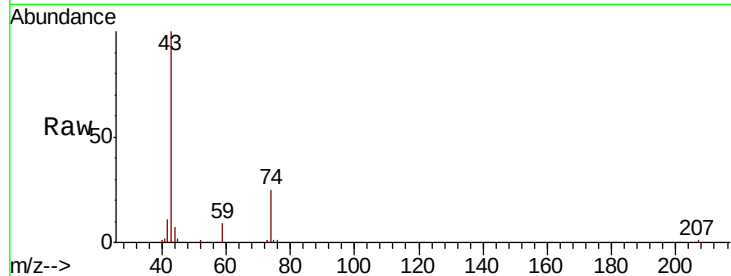




#15
Methvl Acetate
Concen: 10.475 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

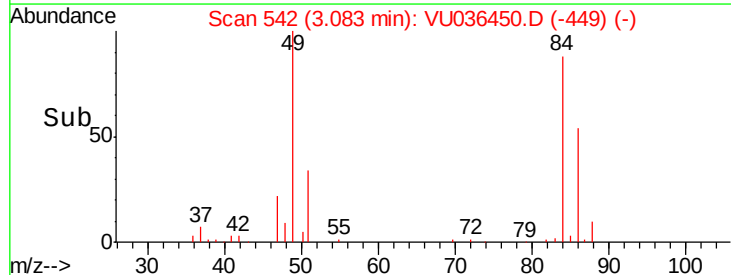
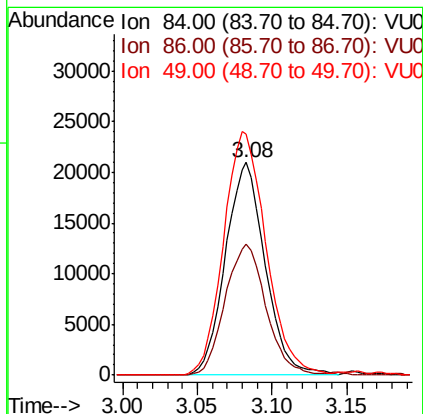
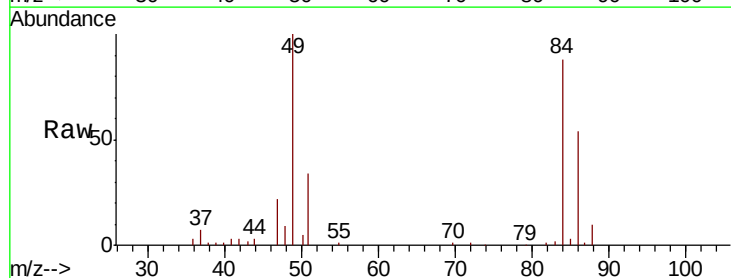
Instrument :
MSVOA_U
ClientSampleId :

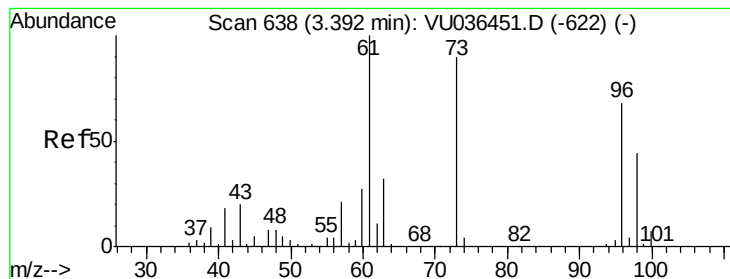
Tot Ion: 43 Resp: 42470
Ion Ratio Lower Upper
43 100
74 24.5 19.0 28.4



#16
Methylene chloride
Concen: 10.915 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

Tgt Ion: 84 Resp: 38780
Ion Ratio Lower Upper
84 100
86 61.7 46.4 86.2
49 113.4 84.5 156.9





#17

trans-1,2-Dichloroethene

Concen: 10.844 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampleId :

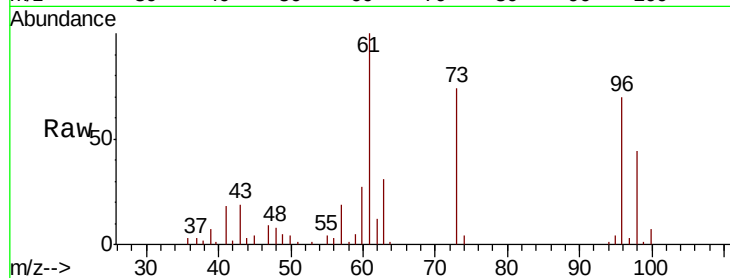
Tot Ion: 96 Resp: 33837

Ion Ratio Lower Upper

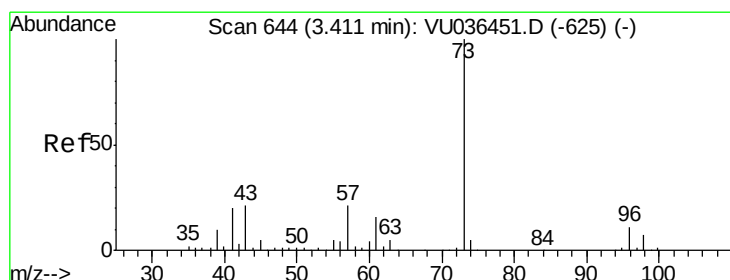
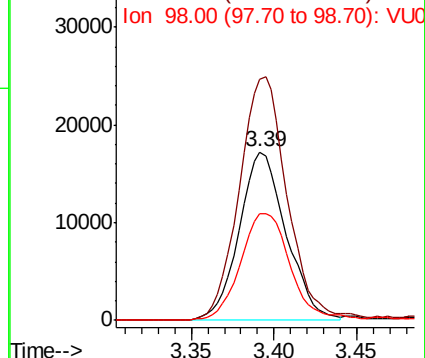
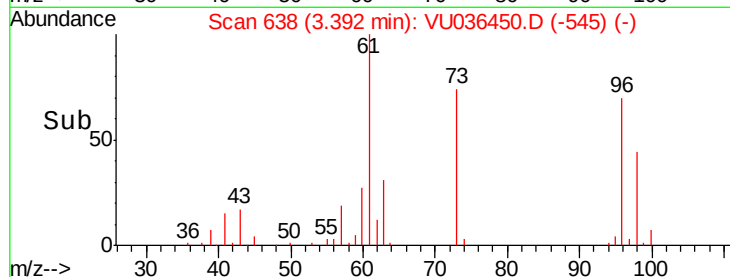
96 100

61 142.8 102.8 191.0

98 63.0 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU036450.D (-545) (-)



#18

Methyl tert-butyl Ether

Concen: 10.526 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

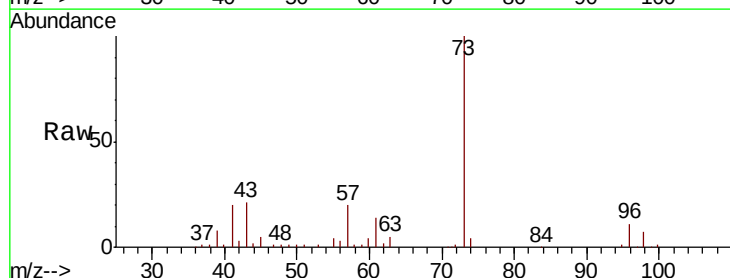
Tgt Ion: 73 Resp: 119110

Ion Ratio Lower Upper

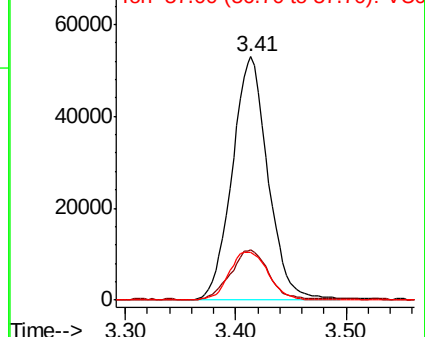
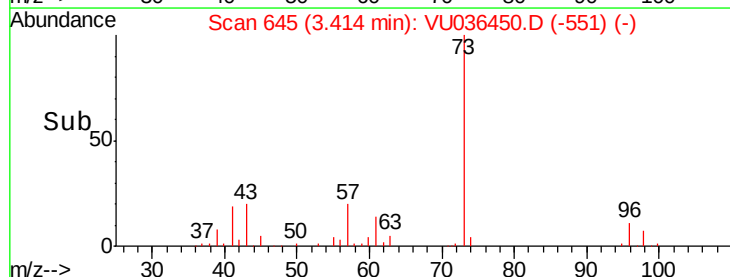
73 100

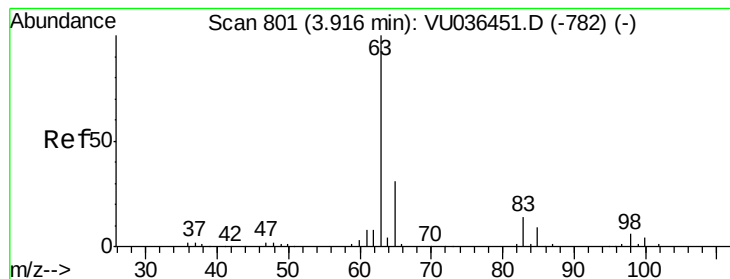
43 21.1 16.6 25.0

57 21.6 17.0 25.6



Abundance Ion 73.00 (72.70 to 73.70): VU036450.D (-551) (-)





#19

1,1-Dichloroethane

Concen: 10.485 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampleId :

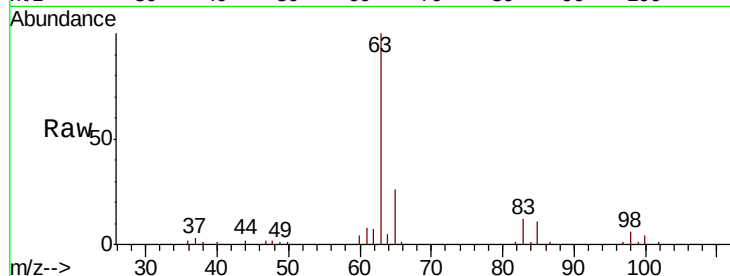
Tot Ion: 63 Resp: 65575

Ion Ratio Lower Upper

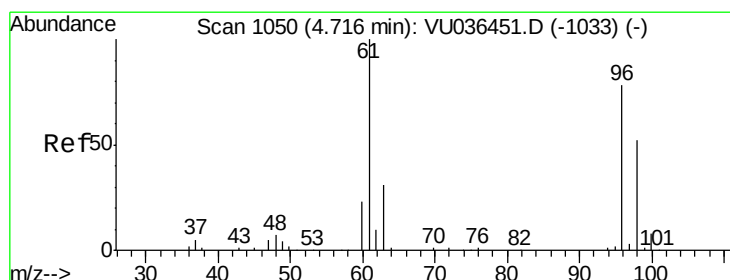
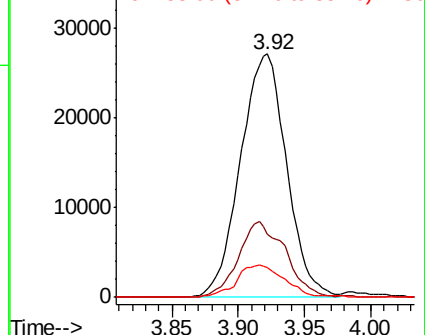
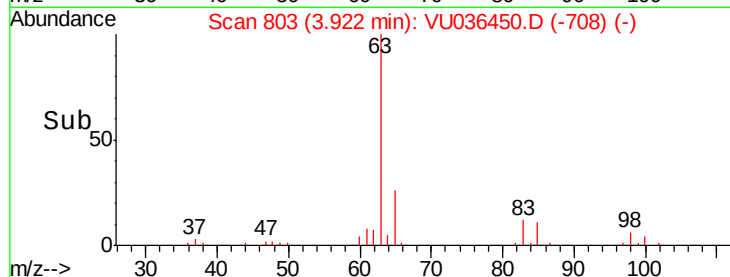
63 100

65 26.1 21.8 40.4

83 12.1 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU036450.D (-782) (-)



#20

cis-1,2-Dichloroethene

Concen: 10.352 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

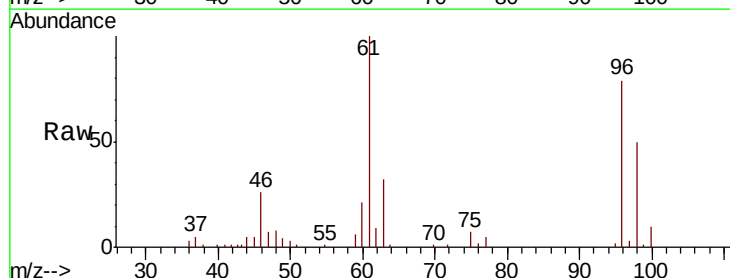
Tgt Ion: 96 Resp: 39122

Ion Ratio Lower Upper

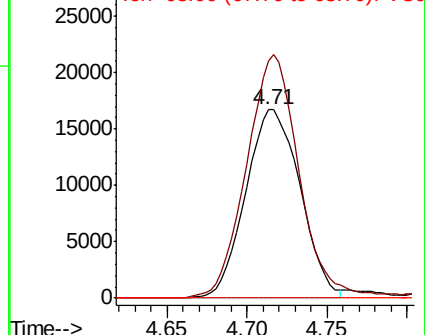
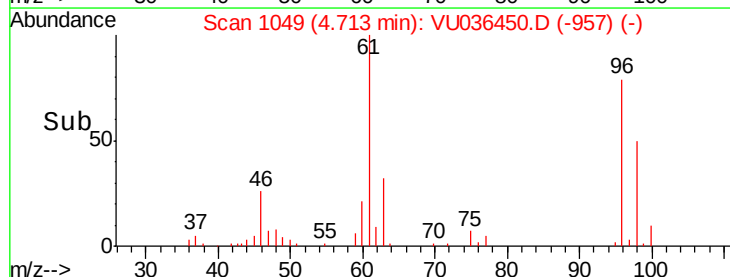
96 100

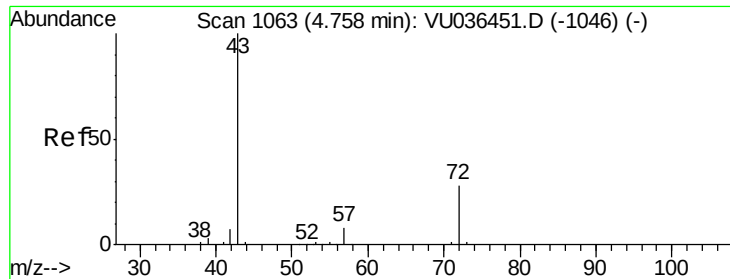
61 126.0 89.5 166.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036450.D (-957) (-)





#22

2-Butanone

Concen: 19.107 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

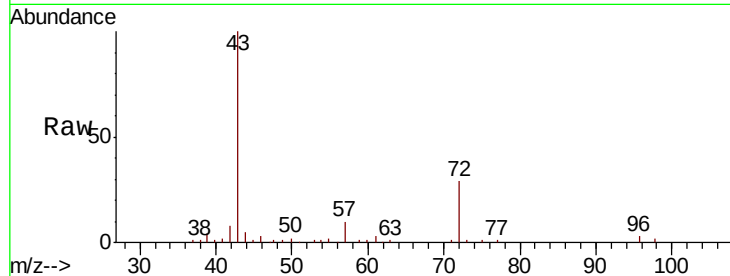
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 67344

Ion Ratio Lower Upper

43 100

72 28.4 14.1 42.4



Abundance Ion 43.00 (42.70 to 43.70): VU036450.D (-1064) (-)

Ion 72.00 (71.70 to 72.70): VU036450.D (-1064) (-)

4.76

30000

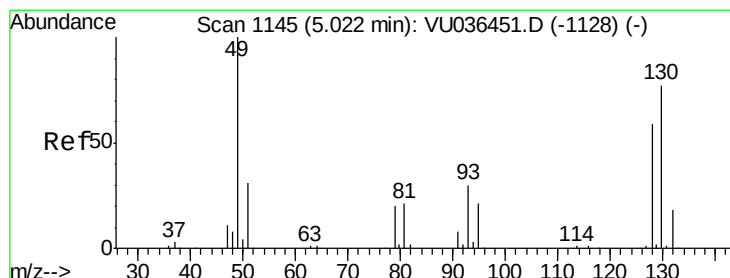
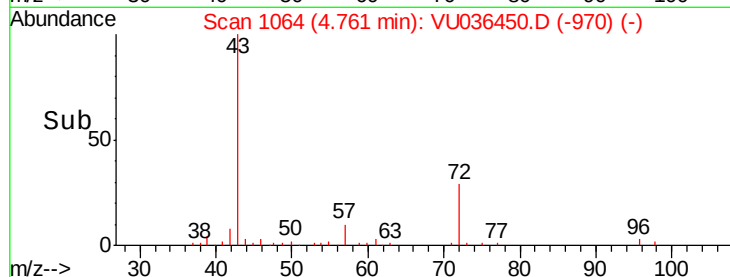
20000

10000

0

4.70 4.75 4.80

Time-->



#23

Bromochloromethane

Concen: 10.879 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Tgt Ion:128 Resp: 19609

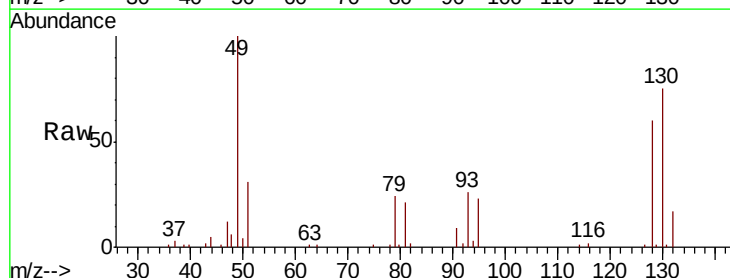
Ion Ratio Lower Upper

128 100

49 165.5 118.9 220.7

130 123.5 91.3 169.5

51 51.5 42.6 63.8



Abundance Ion 128.00 (127.70 to 128.70): VU036450.D (-1145) (-)

Ion 49.00 (48.70 to 49.70): VU036450.D (-1145) (-)

Ion 130.00 (129.70 to 130.70): VU036450.D (-1145) (-)

Ion 51.00 (50.70 to 51.70): VU036450.D (-1145) (-)

5.02

20000

15000

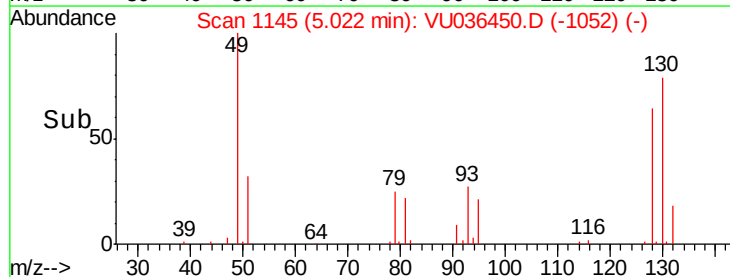
10000

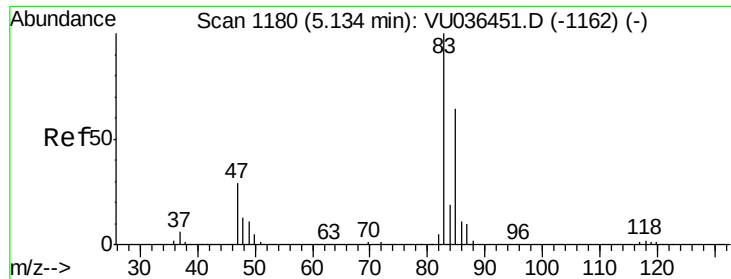
5000

0

4.95 5.00 5.05 5.10

Time-->

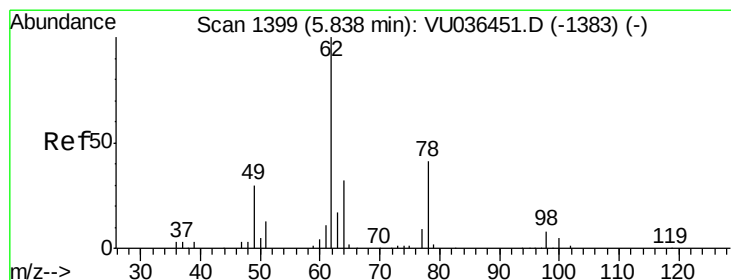
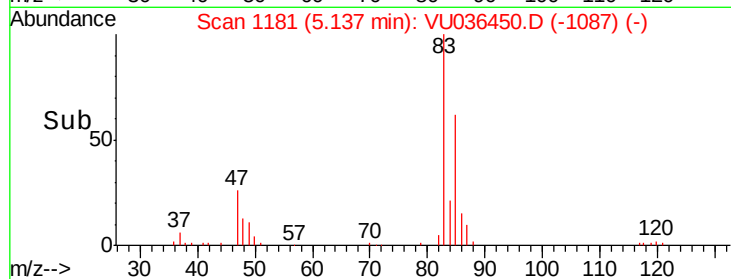
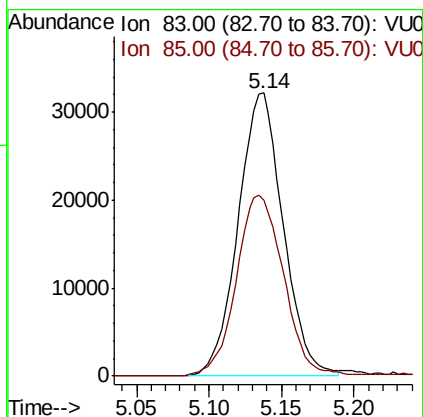
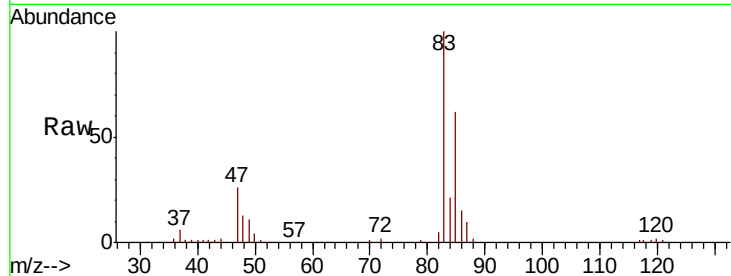




#25
Chloroform
Concen: 10.464 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

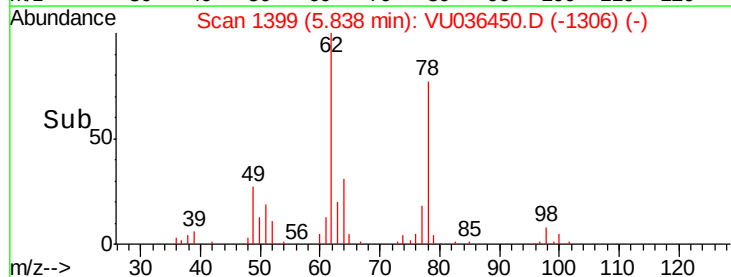
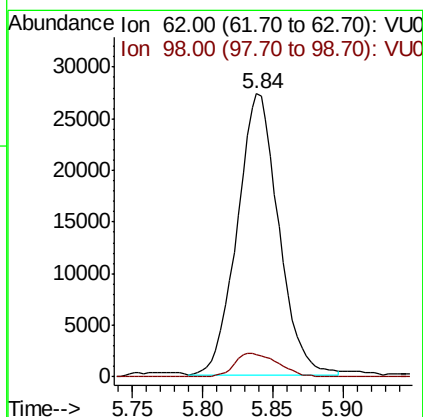
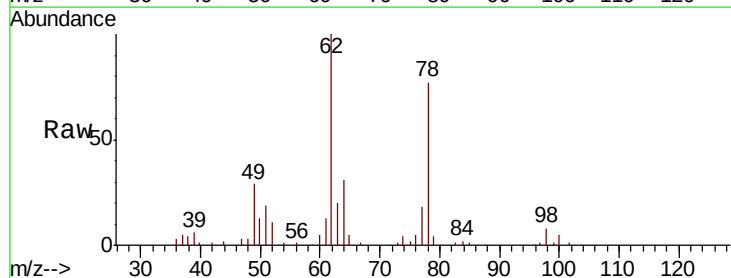
Instrument :
MSVOA_U
ClientSampleId :

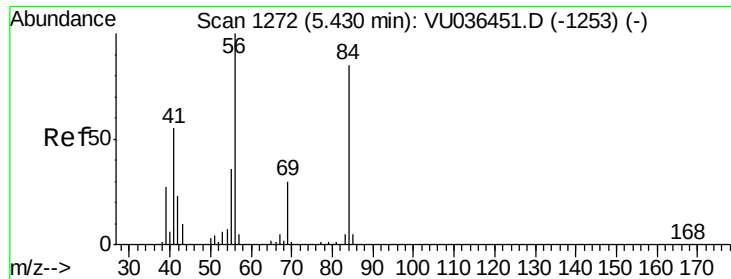
Tot Ion: 83 Resp: 69514
Ion Ratio Lower Upper
83 100
85 62.3 45.1 83.9



#27
1,2-Dichloroethane
Concen: 10.808 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

Tgt Ion: 62 Resp: 55909
Ion Ratio Lower Upper
62 100
98 7.9 6.6 9.8

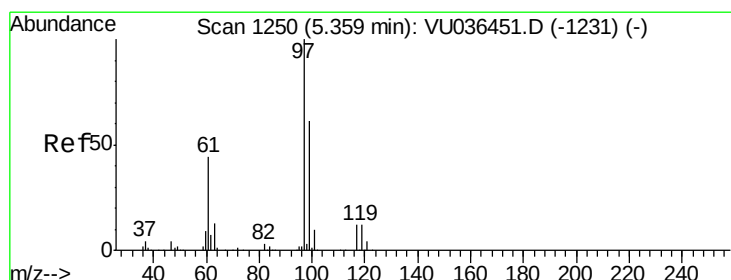
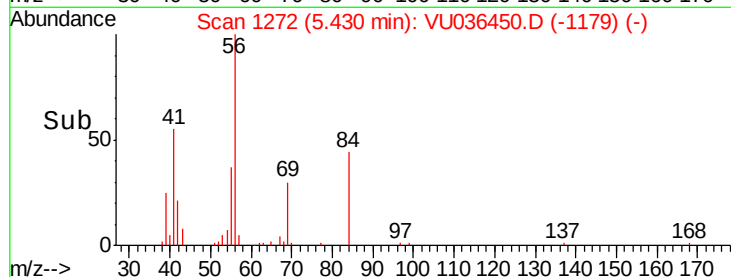
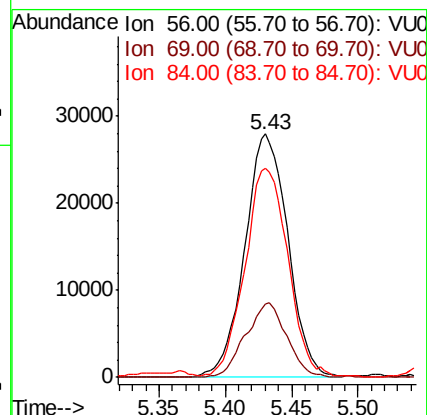
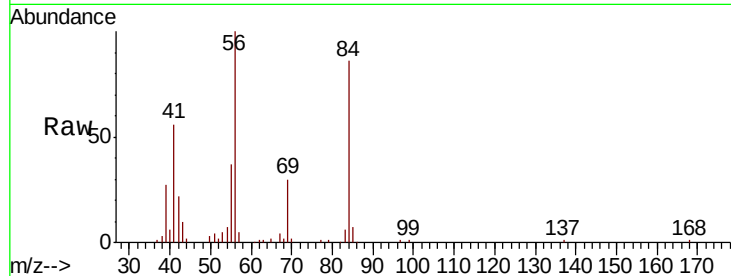




#29
Cyclohexane
Concen: 11.156 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

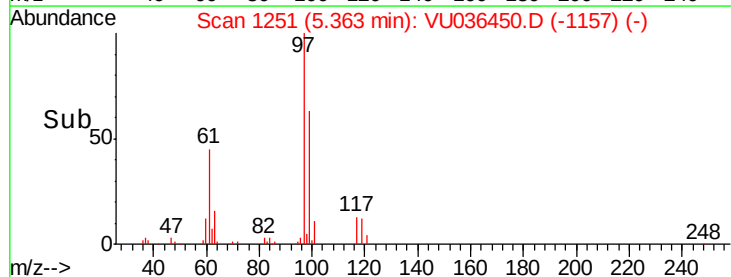
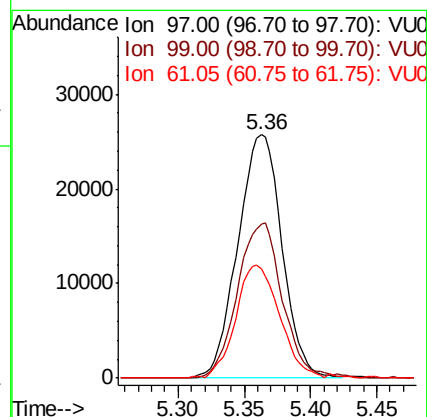
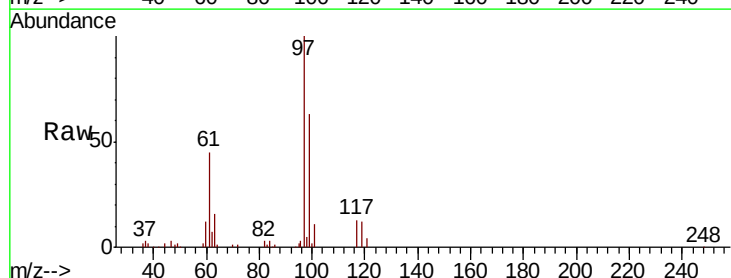
Instrument :
MSVOA_U
ClientSampleId :

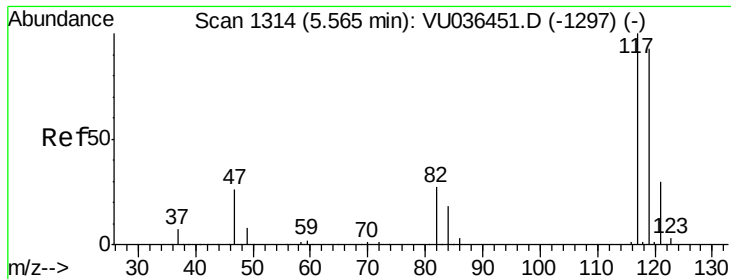
Tot Ion: 56 Resp: 63327
Ion Ratio Lower Upper
56 100
69 29.1 24.6 36.8
84 84.1 67.4 101.2



#30
1,1,1-Trichloroethane
Concen: 10.009 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

Tgt Ion: 97 Resp: 59589
Ion Ratio Lower Upper
97 100
99 64.6 50.2 75.2
61 46.0 35.3 52.9





#31

Carbon tetrachloride

Concen: 9.892 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

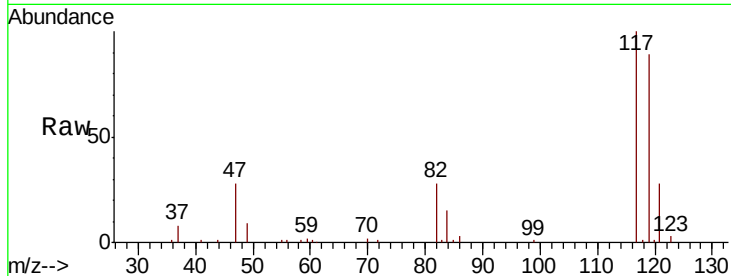
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 51166

Ion Ratio Lower Upper

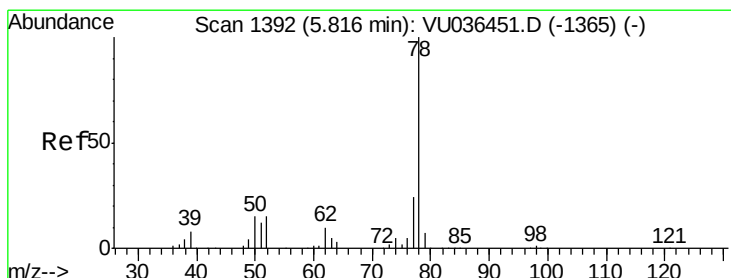
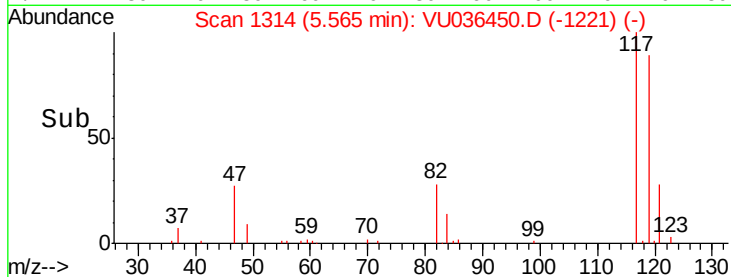
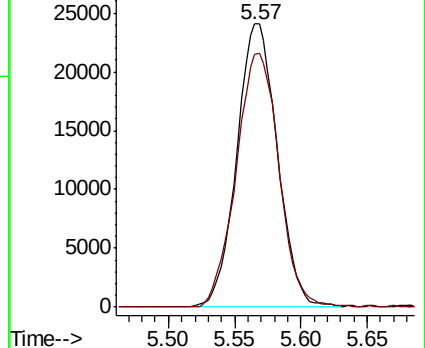
117 100

119 94.3 74.3 111.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 10.448 ug/L

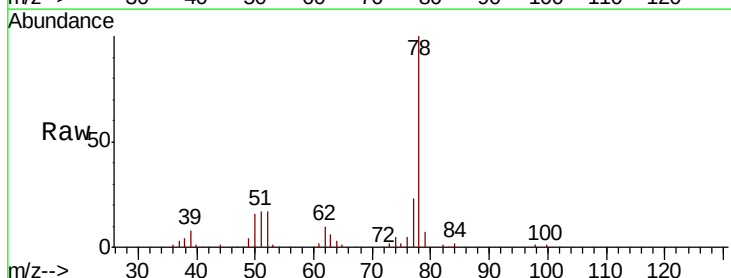
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

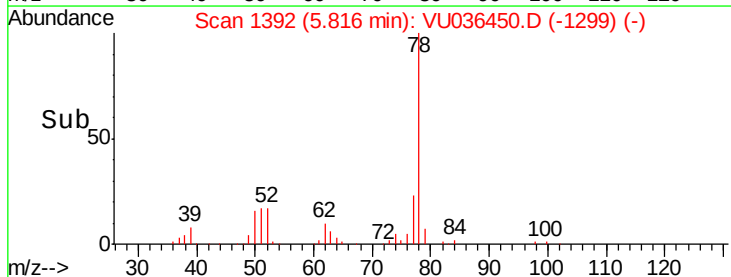
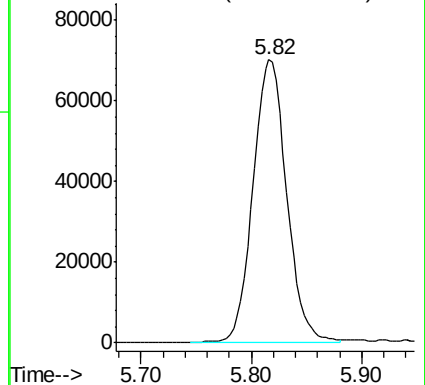
Lab File: VU036450.D

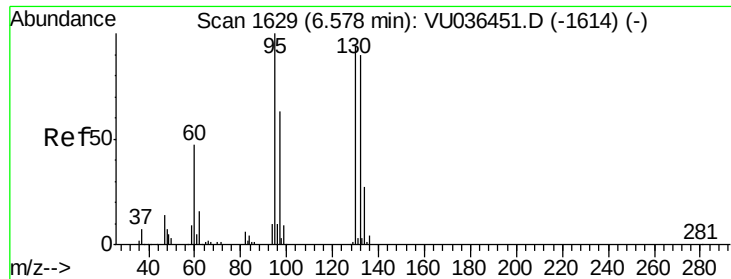
Acq: 14 Jan 2020 16:59

Tgt Ion: 78 Resp: 149403



Abundance Ion 78.00 (77.70 to 78.70): VU0

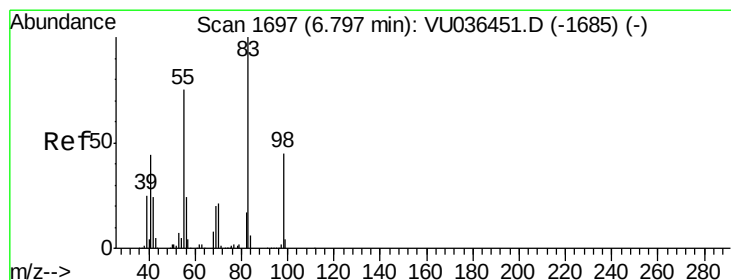
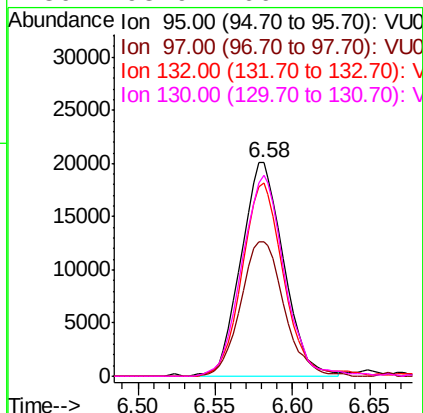
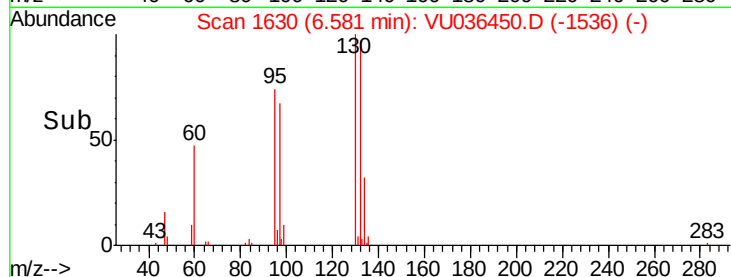
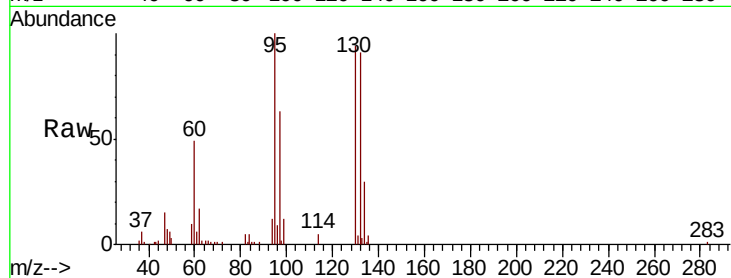




#34
 Trichloroethene
 Concen: 10.352 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

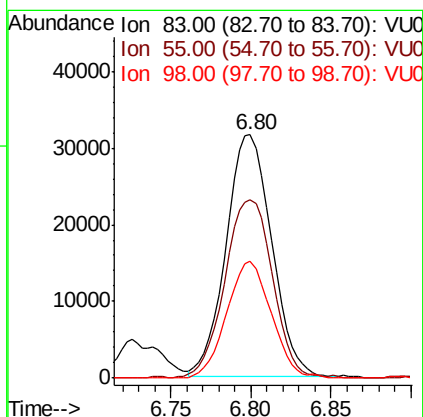
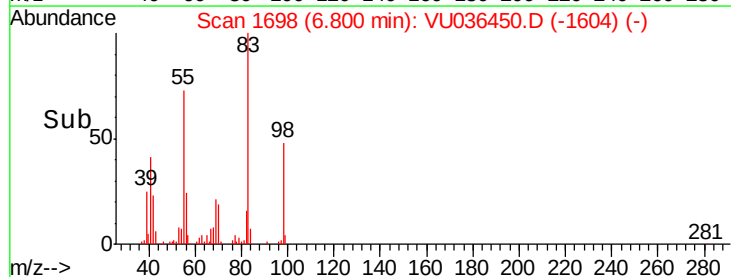
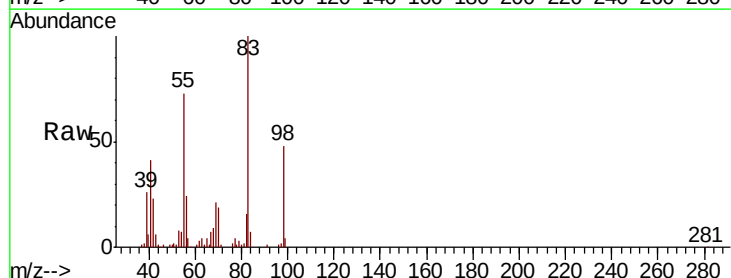
Instrument :
 MSVOA_U
 ClientSampleId :

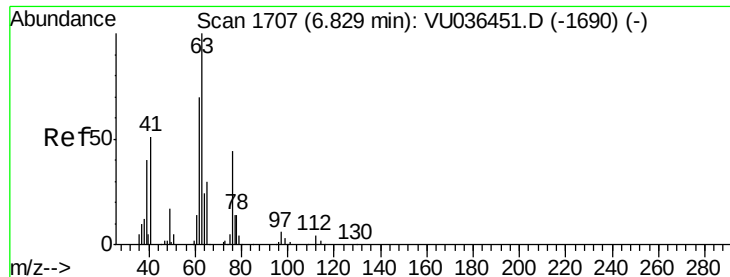
Tot Ion:	95	Resp:	38435
Ion	Ratio	Lower	Upper
95	100		
97	63.1	44.2	82.2
132	90.6	62.8	116.6
130	93.9	66.1	122.7



#35
 Methylcyclohexane
 Concen: 10.339 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Tgt Ion:	83	Resp:	60897
Ion	Ratio	Lower	Upper
83	100		
55	78.1	59.9	89.9
98	47.2	36.4	54.6

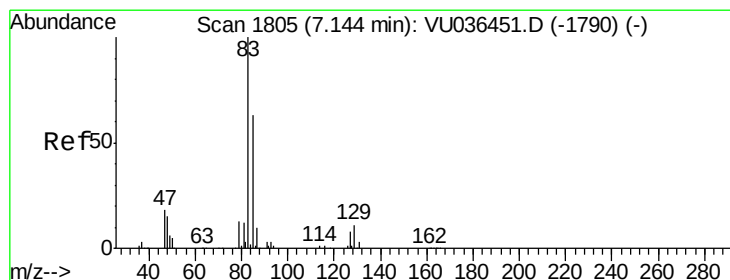
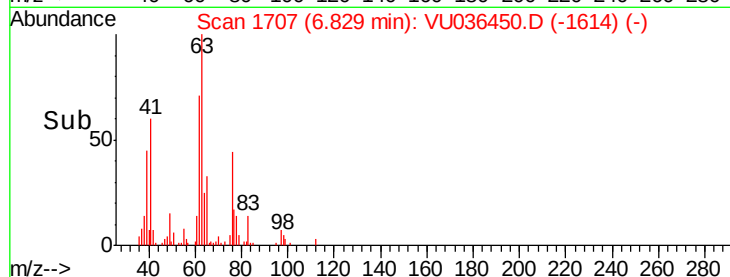
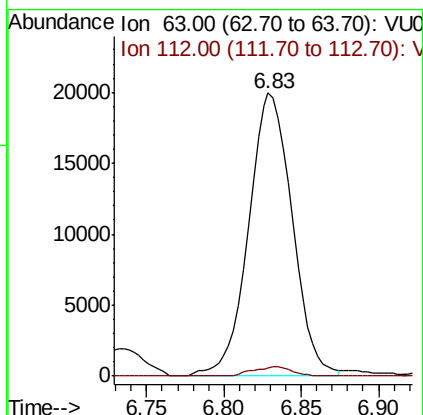
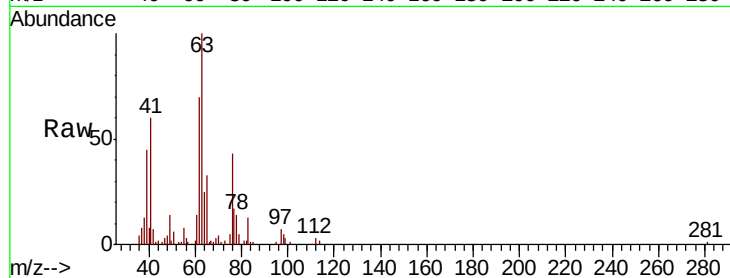




#37
 1,2-Dichloropropane
 Concen: 10.184 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

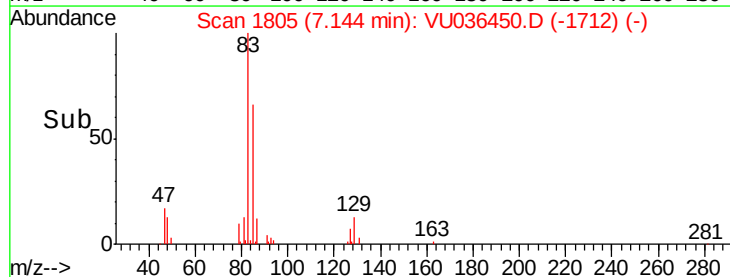
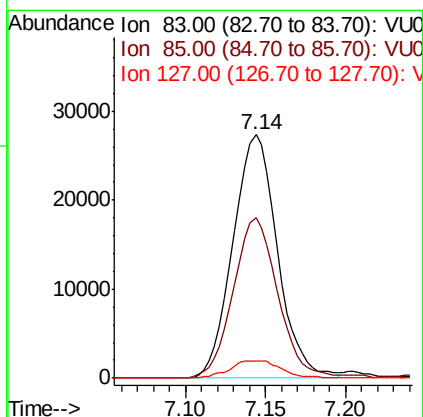
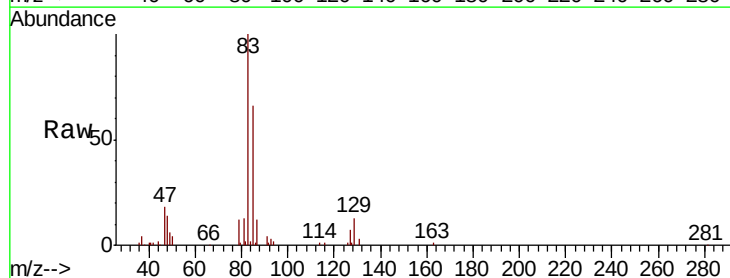
Instrument :
 MSVOA_U
 ClientSampleId :

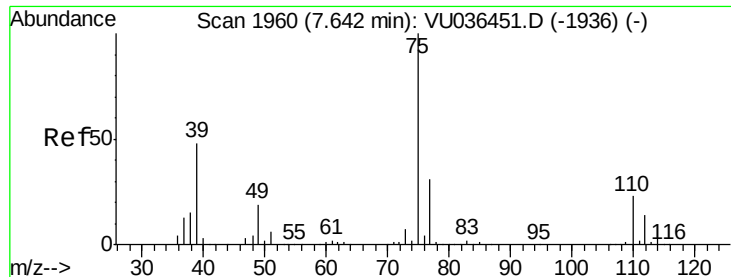
Tot Ion: 63 Resp: 39146
 Ion Ratio Lower Upper
 63 100
 112 3.0 3.0 4.4#



#38
 Bromodichloromethane
 Concen: 9.583 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Tgt Ion: 83 Resp: 51905
 Ion Ratio Lower Upper
 83 100
 85 65.6 44.0 81.8
 127 7.1 6.7 10.1

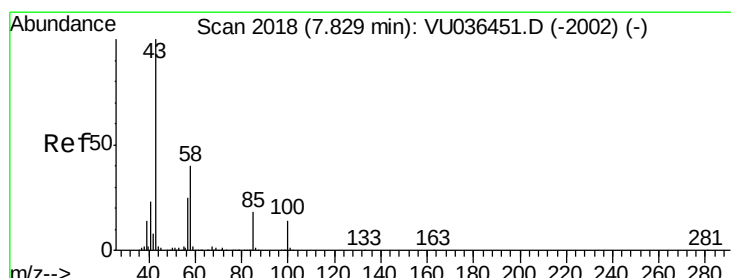
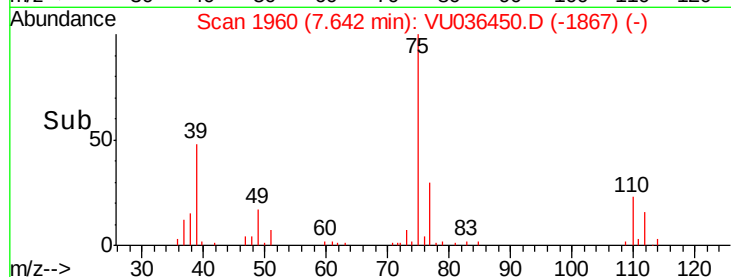
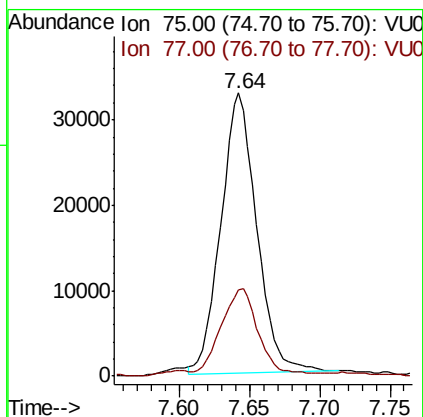
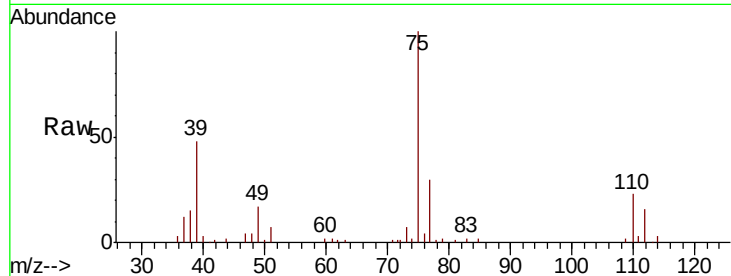




#39
 cis-1,3-Dichloropropene
 Concen: 9.006 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

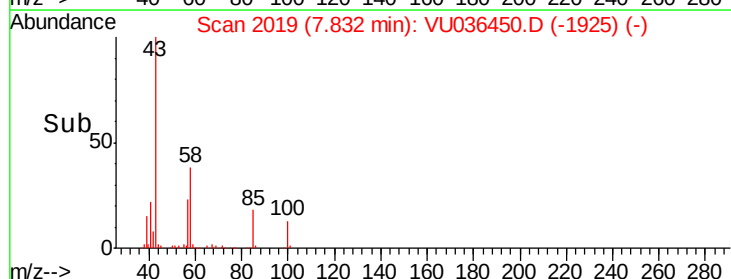
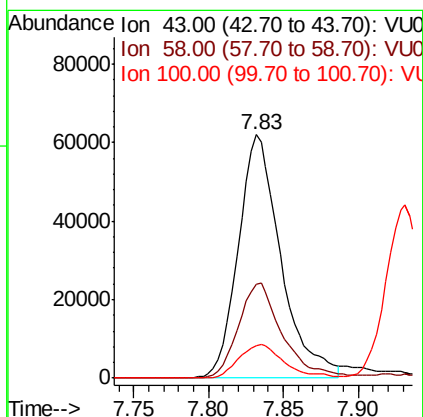
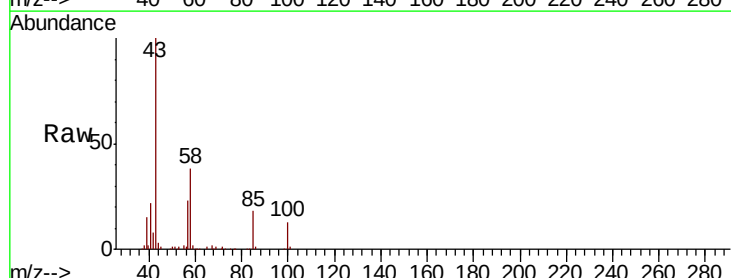
Instrument :
 MSVOA_U
 ClientSampleId :

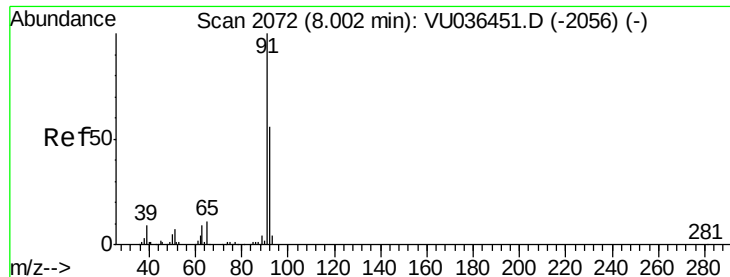
Tot Ion: 75 Resp: 58315
 Ion Ratio Lower Upper
 75 100
 77 30.3 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 18.927 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Tgt Ion: 43 Resp: 122769
 Ion Ratio Lower Upper
 43 100
 58 40.1 32.0 48.0
 100 13.9 11.4 17.0





#42

Toluene

Concen: 9.954 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

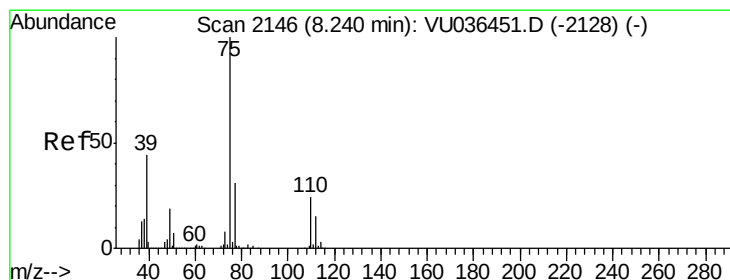
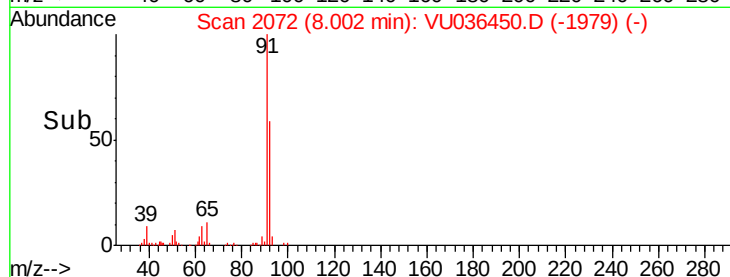
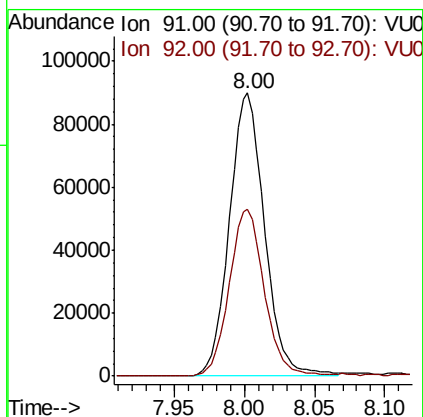
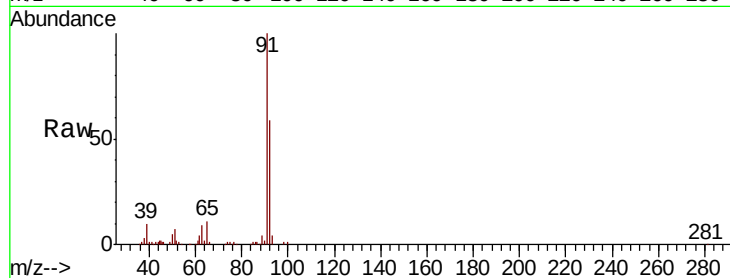
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 156730

Ion Ratio Lower Upper

91 100

92 59.0 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 9.513 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036450.D

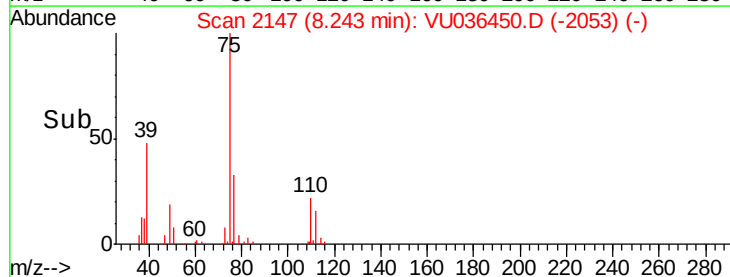
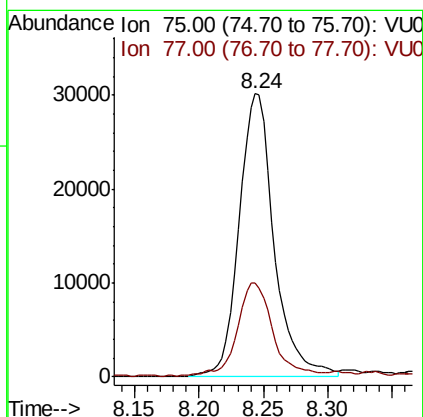
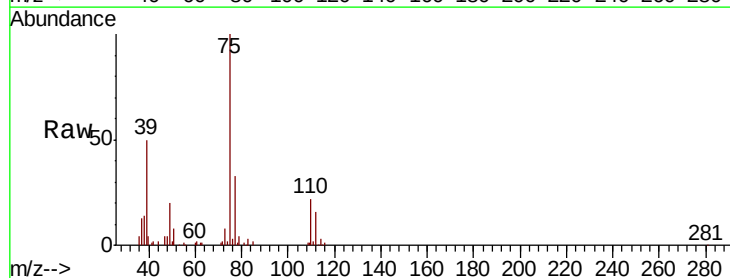
Acq: 14 Jan 2020 16:59

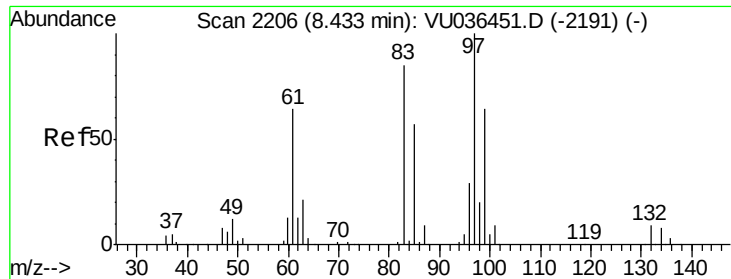
Tgt Ion: 75 Resp: 57129

Ion Ratio Lower Upper

75 100

77 33.2 21.8 40.4

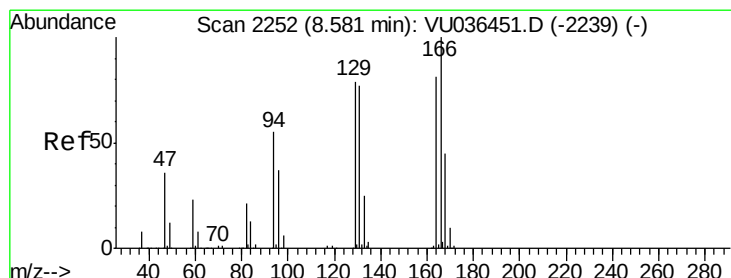
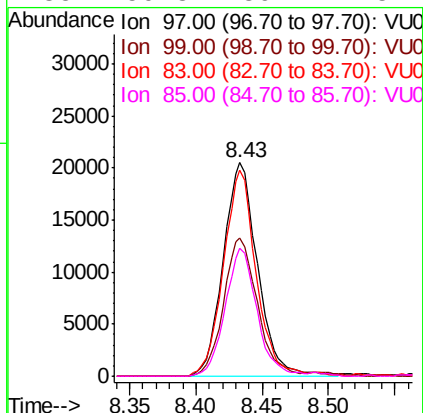
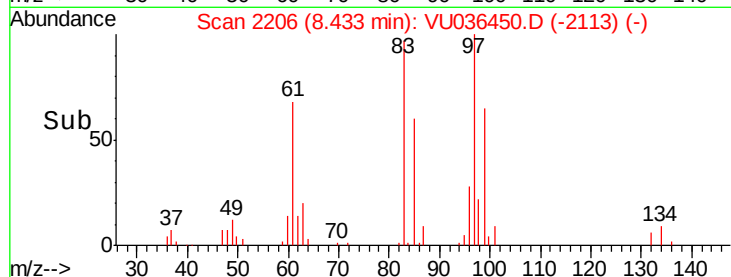
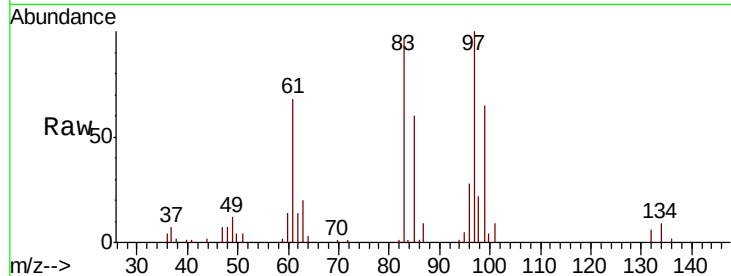




#45
 1,1,2-Trichloroethane
 Concen: 10.285 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

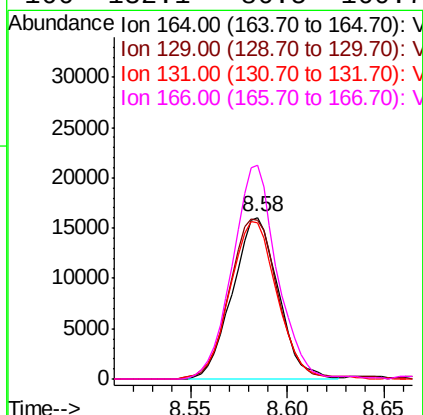
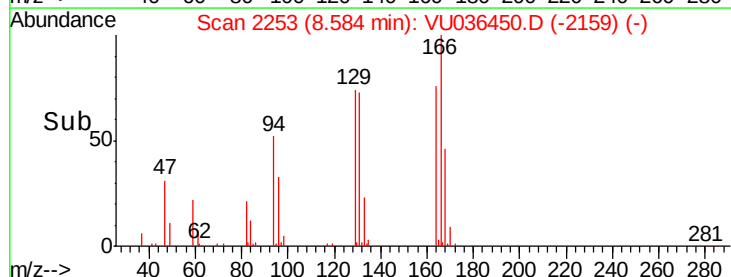
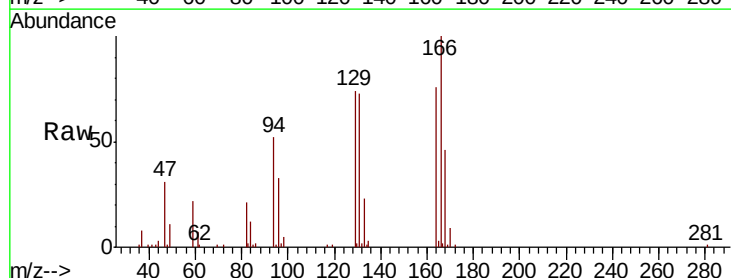
Instrument :
 MSVOA_U
 ClientSampleId :

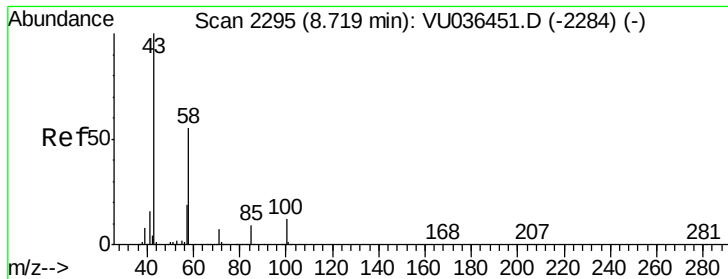
Tot Ion:	97	Resp:	36949
Ion	Ratio	Lower	Upper
97	100		
99	65.0	44.7	82.9
83	96.7	59.4	110.2
85	59.8	39.7	73.7



#46
 Tetrachloroethene
 Concen: 9.971 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Tgt Ion:	164	Resp:	26408
Ion	Ratio	Lower	Upper
164	100		
129	98.0	68.1	126.5
131	96.7	66.6	123.6
166	132.1	86.5	160.7

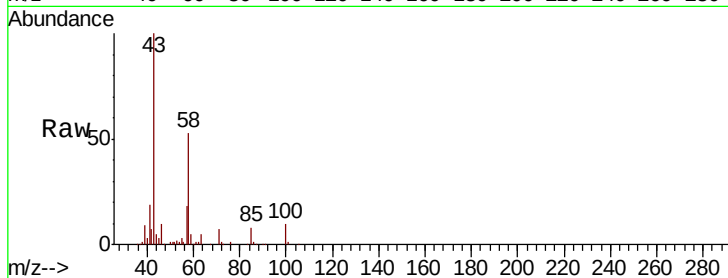




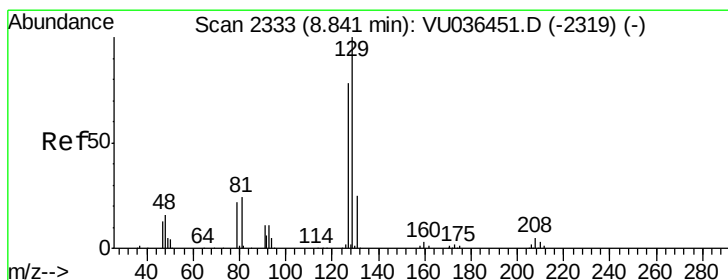
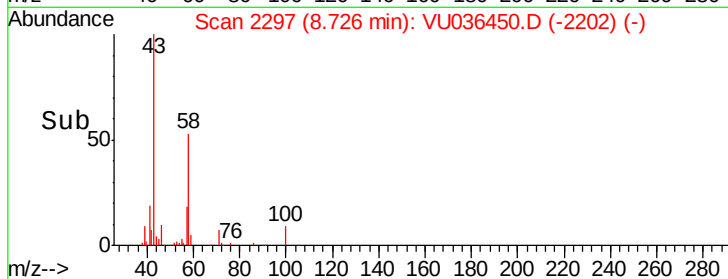
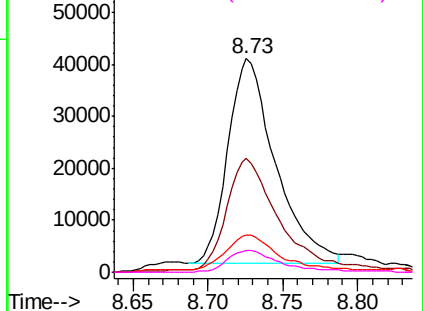
#48
2-Hexanone
Concen: 17.590 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.01 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 87686
Ion Ratio Lower Upper
43 100
58 57.0 43.7 65.5
57 17.3 14.7 22.1
100 11.2 9.4 14.0

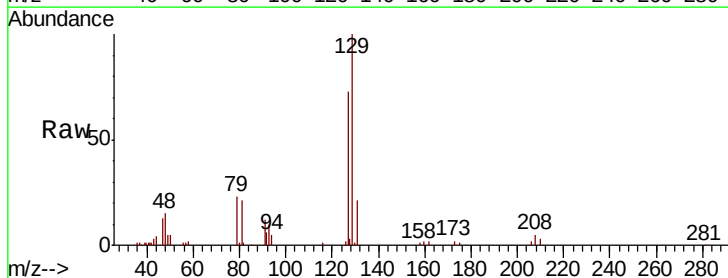


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

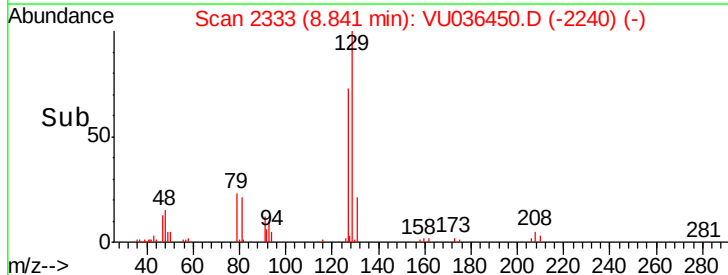
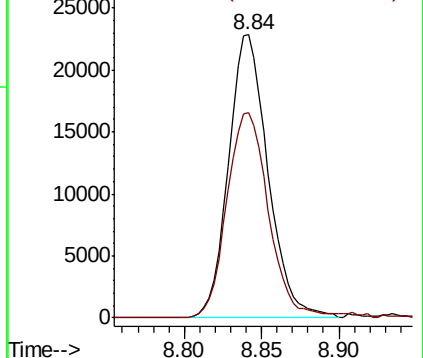


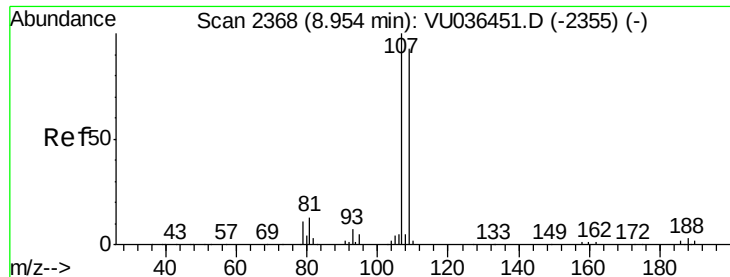
#49
Dibromochloromethane
Concen: 9.244 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036450.D
Acq: 14 Jan 2020 16:59

Tgt Ion: 129 Resp: 40398
Ion Ratio Lower Upper
129 100
127 72.6 54.7 101.7



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

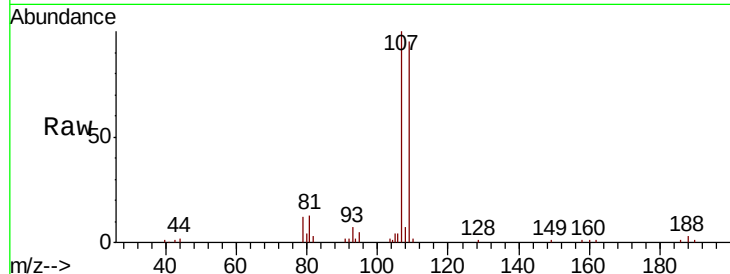




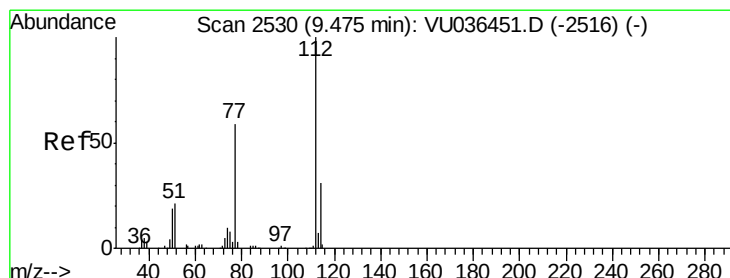
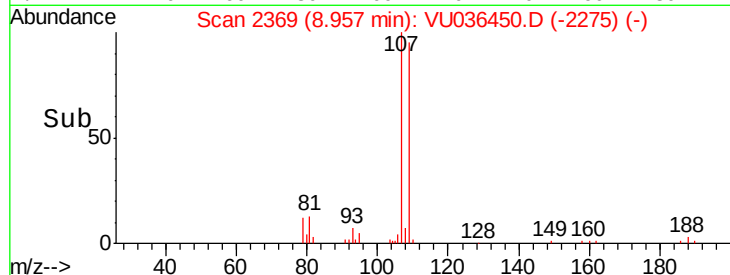
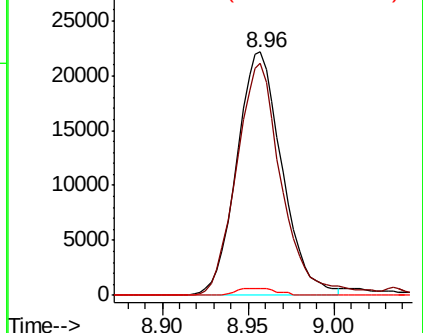
#50
 1,2-Dibromoethane
 Concen: 9.716 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 40584
 Ion Ratio Lower Upper
 107 100
 109 95.2 65.0 120.8
 188 3.0 2.6 4.0

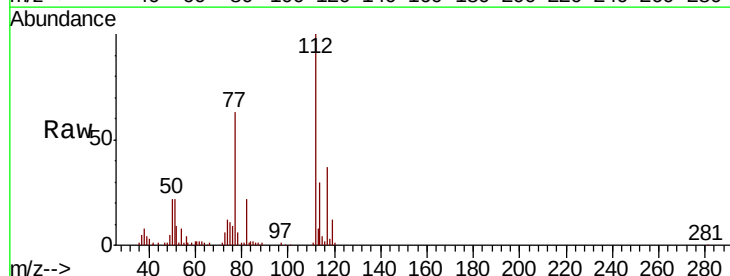


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

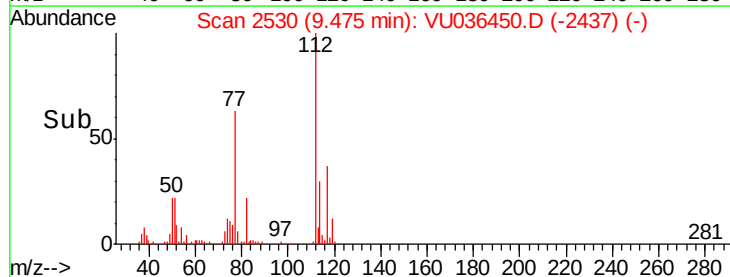
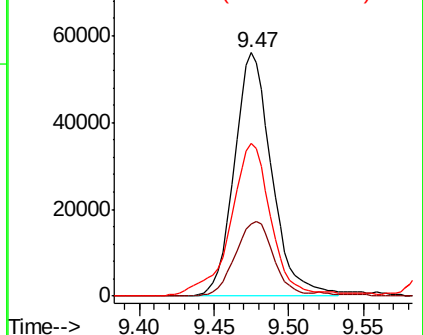


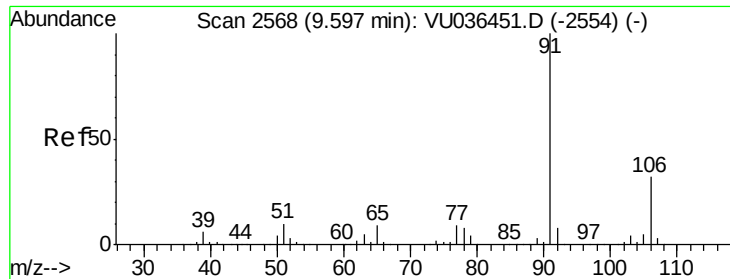
#51
 Chlorobenzene
 Concen: 9.891 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Tgt Ion:112 Resp: 97979
 Ion Ratio Lower Upper
 112 100
 114 29.6 22.0 41.0
 77 62.9 47.8 71.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 9.920 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

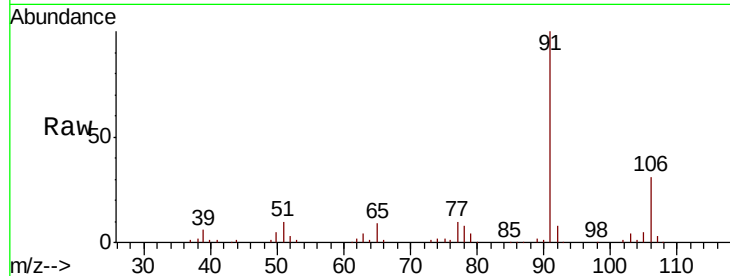
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 177002

Ion Ratio Lower Upper

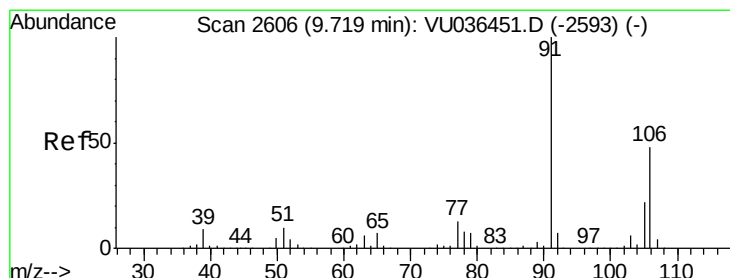
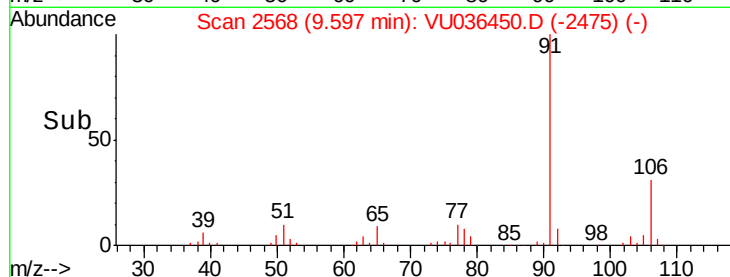
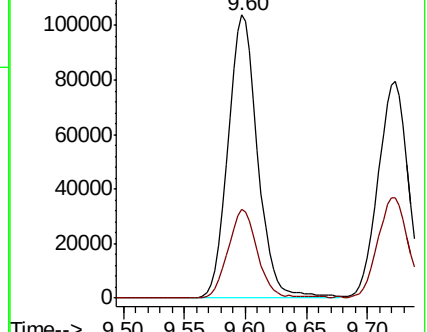
91 100

106 31.3 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VU036450.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU036450.D (-2554) (-)



#53

m,p-Xylene

Concen: 9.872 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036450.D

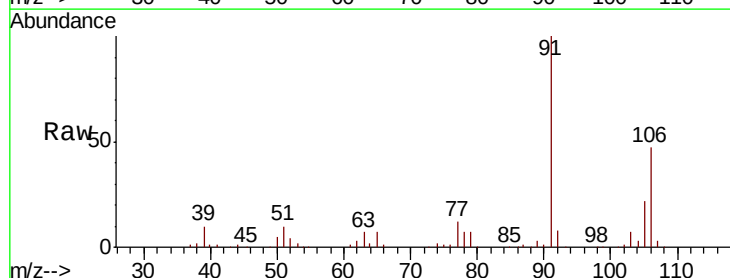
Acq: 14 Jan 2020 16:59

Tgt Ion: 106 Resp: 65296

Ion Ratio Lower Upper

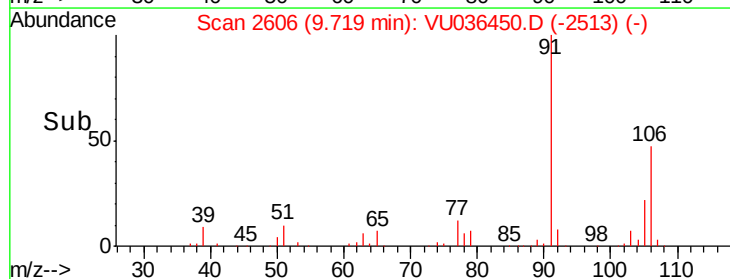
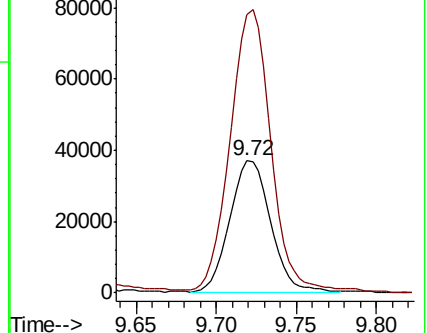
106 100

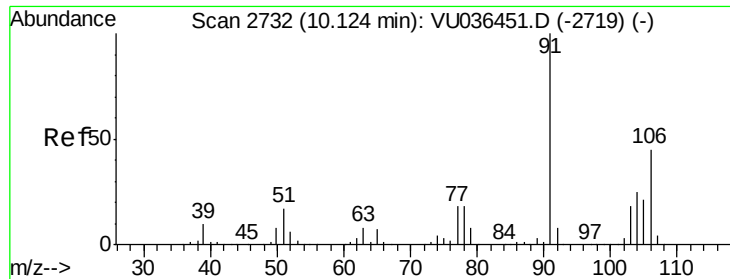
91 211.0 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036450.D (-2593) (-)

Ion 91.00 (90.70 to 91.70): VU036450.D (-2593) (-)





#54

o-xylene

Concen: 10.319 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

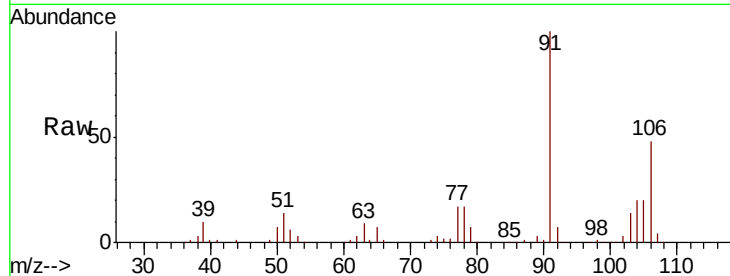
ClientSampleId :

Tot Ion:106 Resp: 68609

Ion Ratio Lower Upper

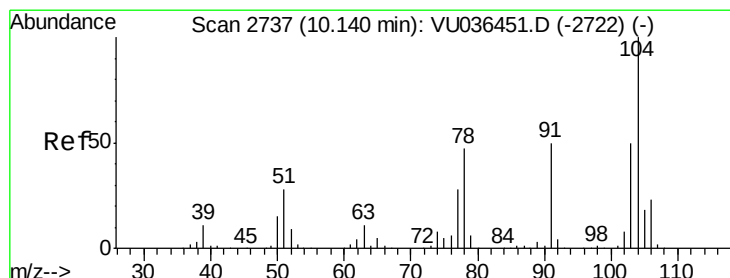
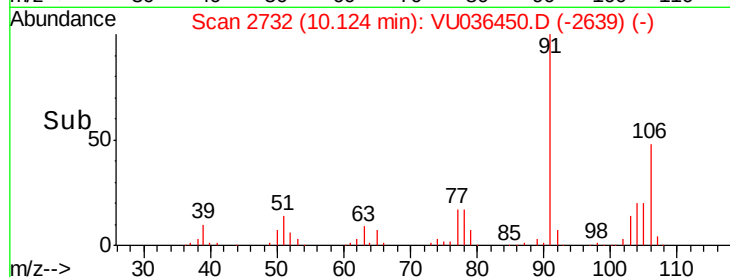
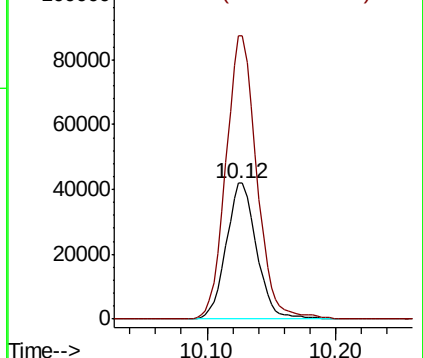
106 100

91 208.1 156.4 290.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 9.238 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036450.D

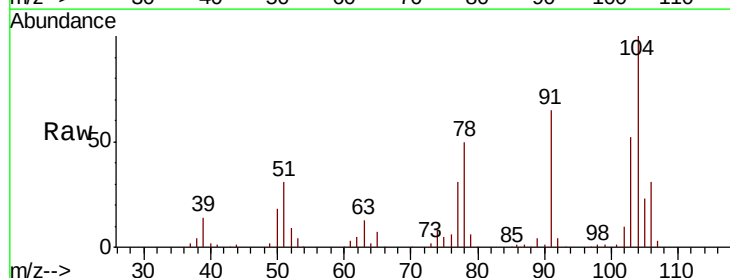
Acq: 14 Jan 2020 16:59

Tgt Ion:104 Resp: 103349

Ion Ratio Lower Upper

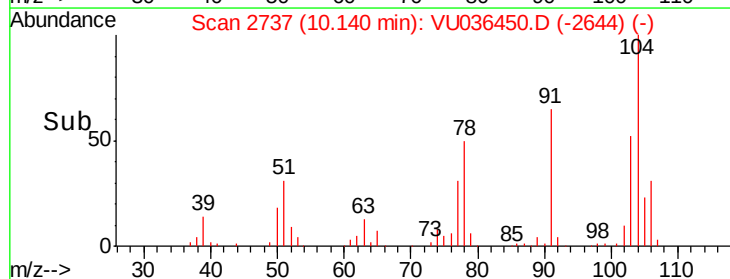
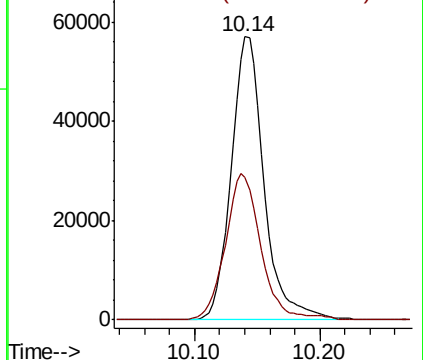
104 100

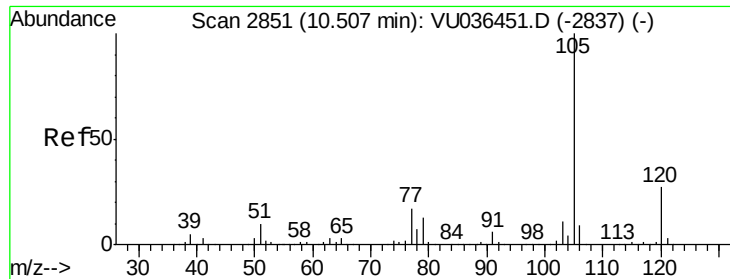
78 50.4 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 9.747 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampleId :

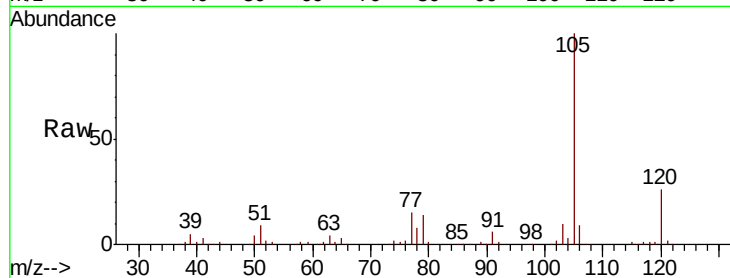
Tot Ion:105 Resp: 168633

Ion Ratio Lower Upper

105 100

120 26.2 21.5 32.3

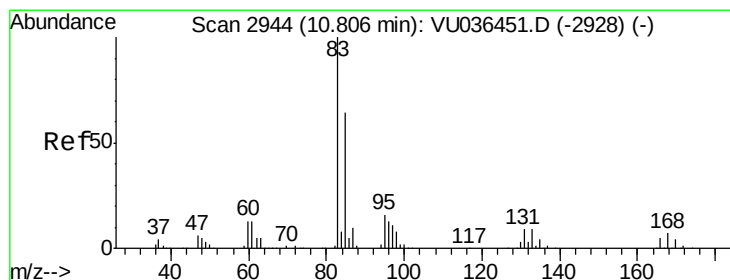
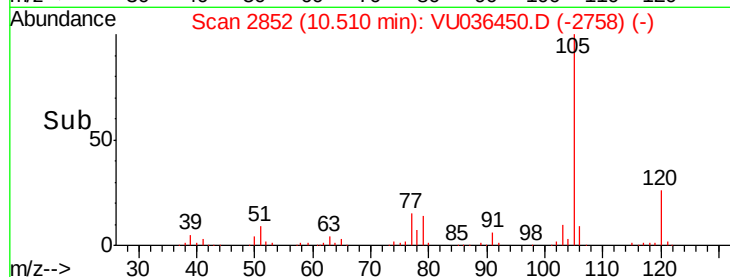
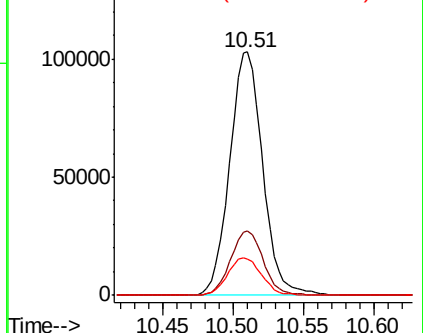
77 16.0 13.4 20.2



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: 9.604 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

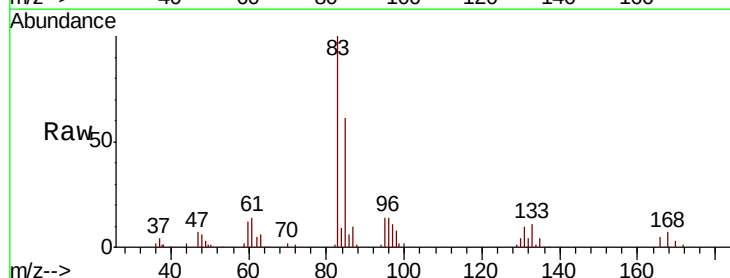
Tgt Ion: 83 Resp: 65028

Ion Ratio Lower Upper

83 100

85 61.3 44.7 82.9

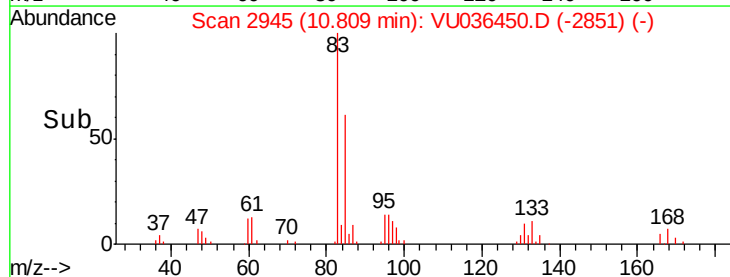
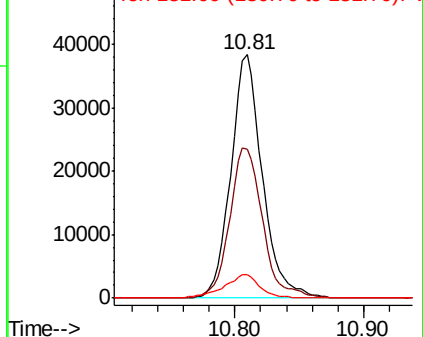
131 9.7 7.0 10.6

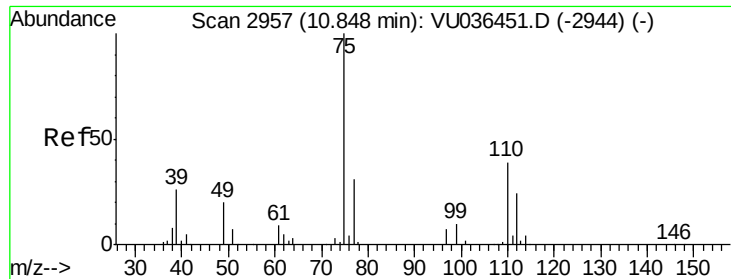


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 9.761 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

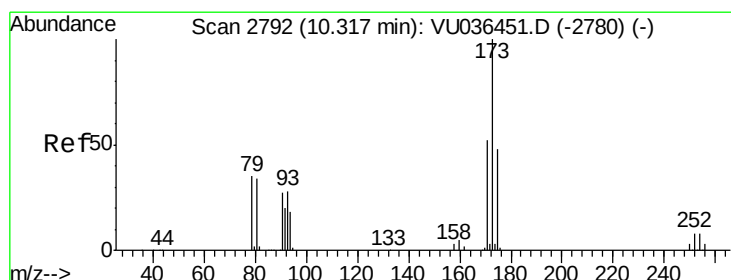
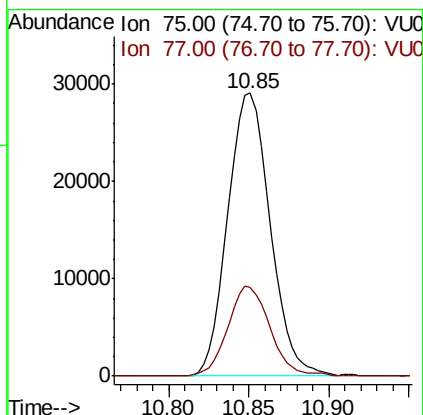
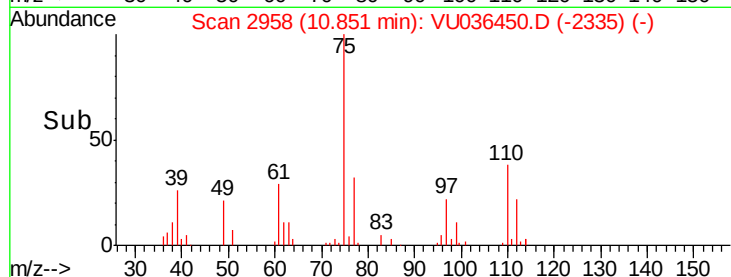
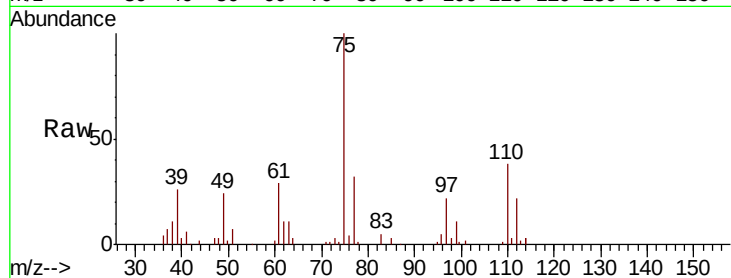
ClientSampleId :

Tot Ion: 75 Resp: 52780

Ion Ratio Lower Upper

75 100

77 31.5 25.0 37.4



#61

Bromoform

Concen: 9.863 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

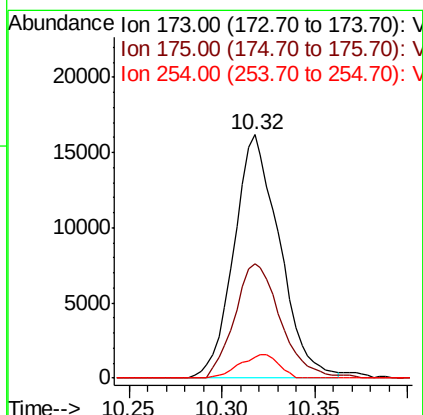
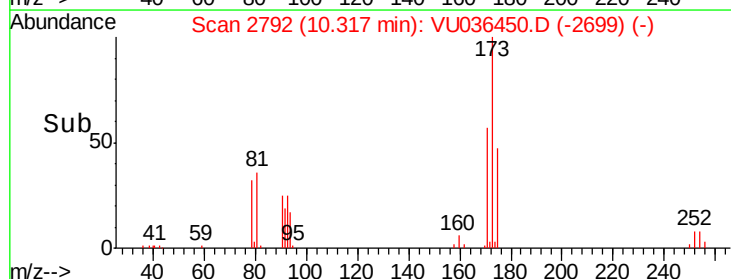
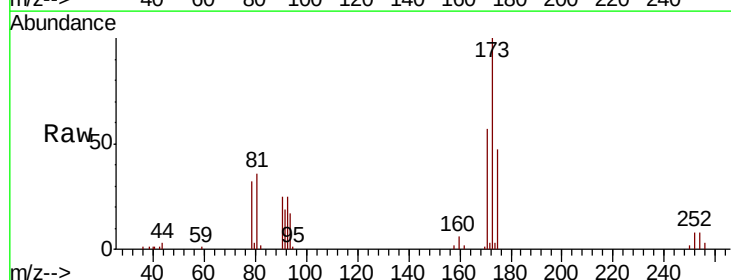
Tgt Ion: 173 Resp: 27723

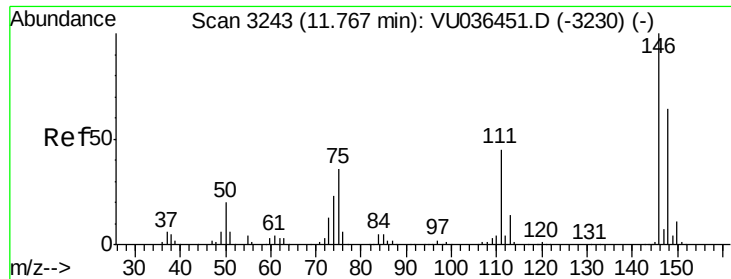
Ion Ratio Lower Upper

173 100

175 47.4 39.6 59.4

254 8.4 6.3 9.5





#62

1,3-Dichlorobenzene

Concen: 10.423 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampled :

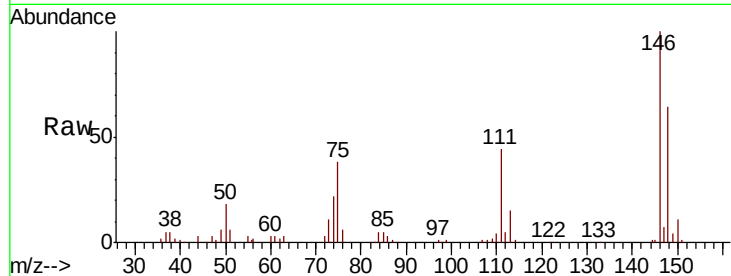
Tot Ion:146 Resp: 64390

Ion Ratio Lower Upper

146 100

111 44.4 31.3 58.1

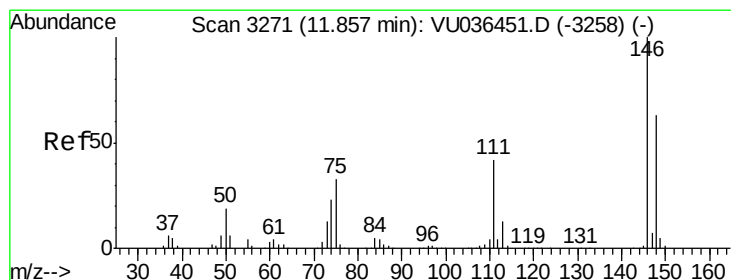
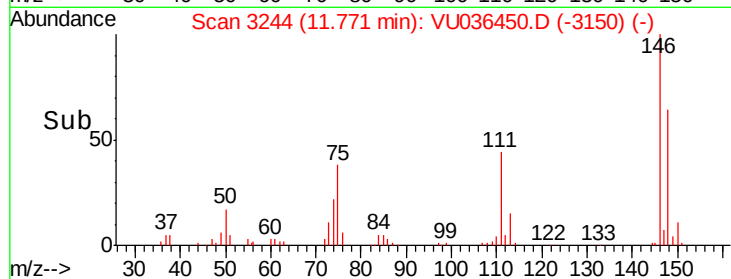
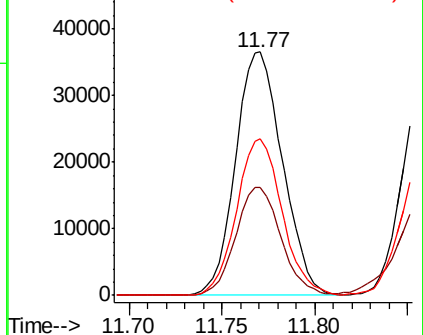
148 64.5 44.7 82.9



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: 10.368 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

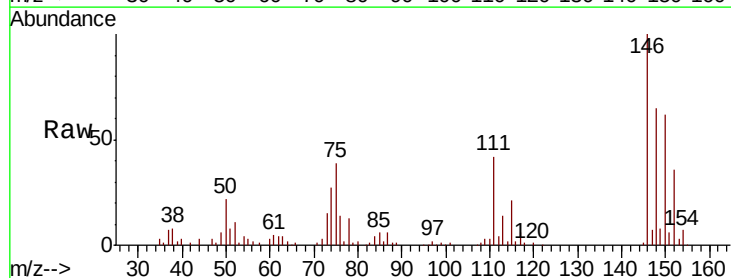
Tgt Ion:146 Resp: 63806

Ion Ratio Lower Upper

146 100

111 42.2 29.3 54.3

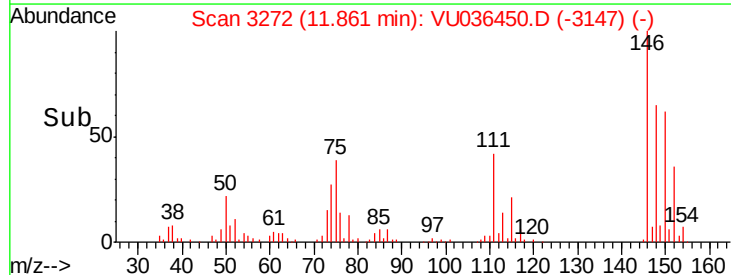
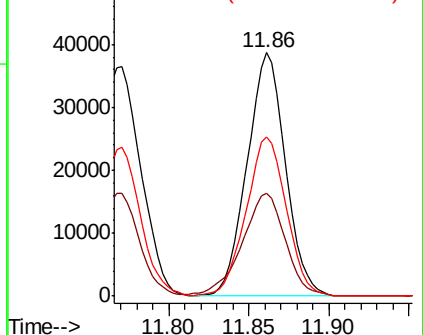
148 65.4 43.8 81.3

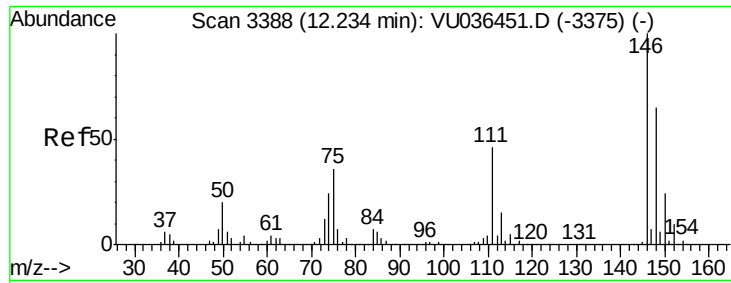


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 10.416 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampled :

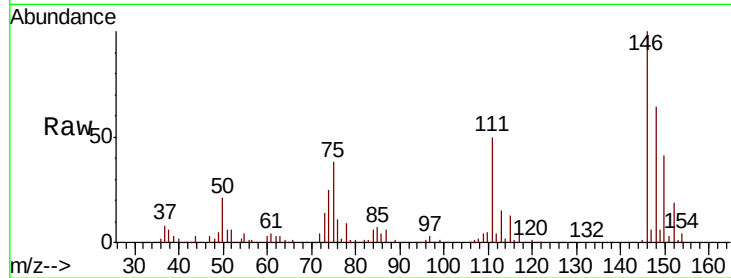
Tot Ion:146 Resp: 64420

Ion Ratio Lower Upper

146 100

111 49.8 37.0 55.4

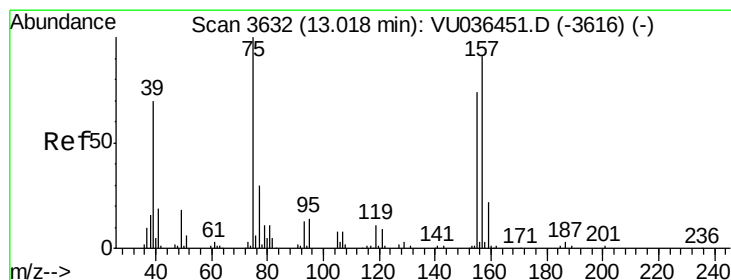
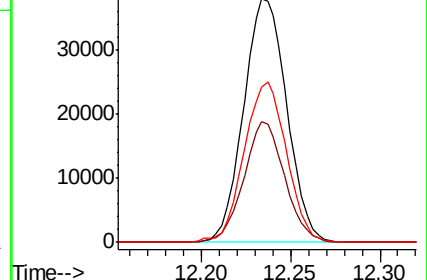
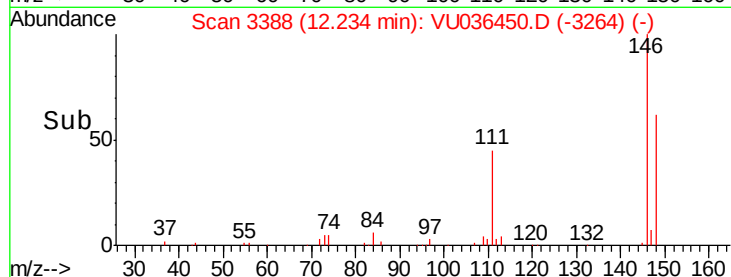
148 63.8 52.3 78.5



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: 9.553 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

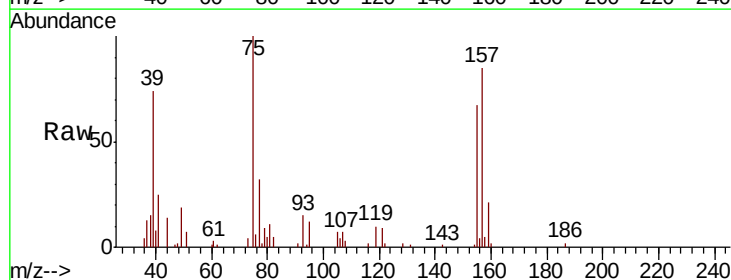
Tgt Ion: 75 Resp: 13656

Ion Ratio Lower Upper

75 100

155 66.8 59.1 88.7

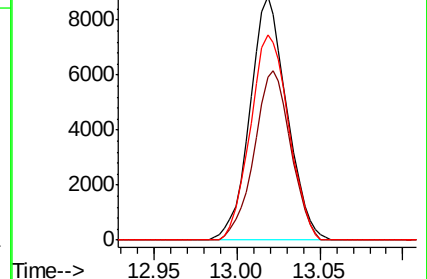
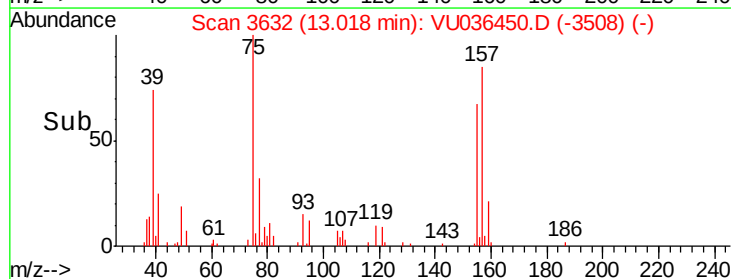
157 84.5 72.7 109.1

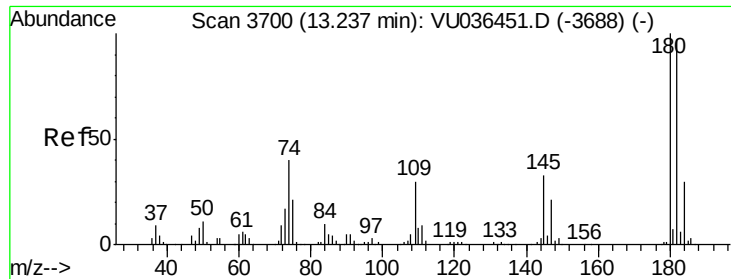


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

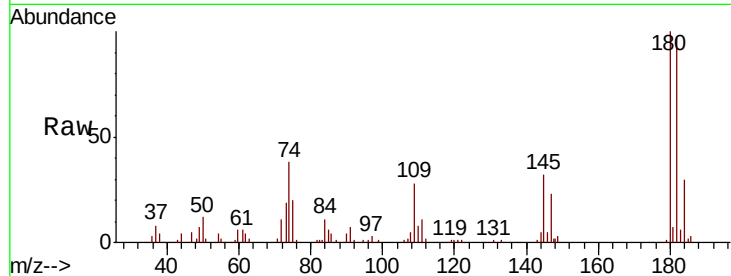




#67
 1,3,5-Trichlorobenzene
 Concen: 8.879 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.3	75.8	113.6
184	29.9	24.4	36.6
145	30.9	26.6	39.8



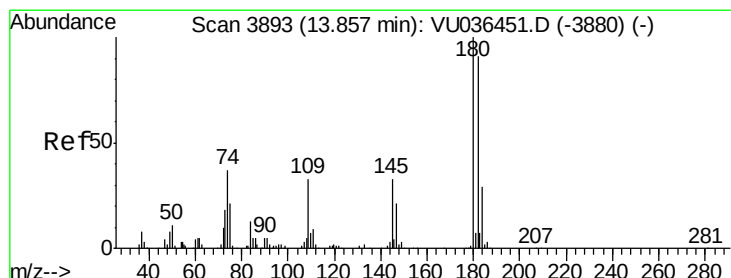
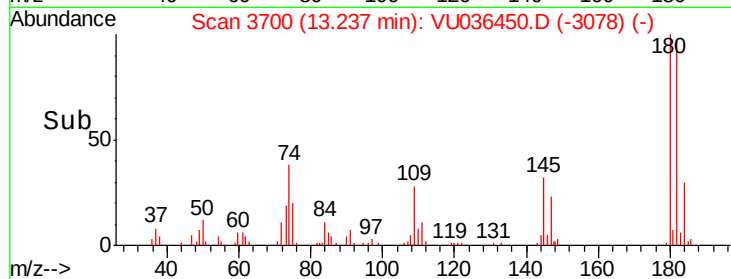
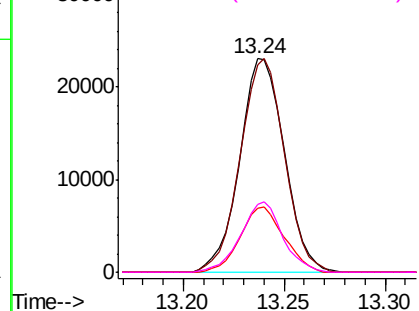
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

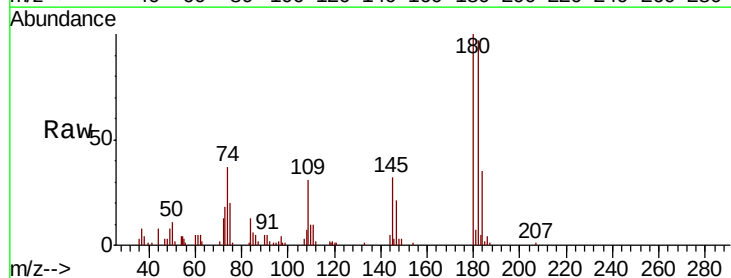
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 7.735 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036450.D
 Acq: 14 Jan 2020 16:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	74.1	111.1
145	31.4	26.6	40.0

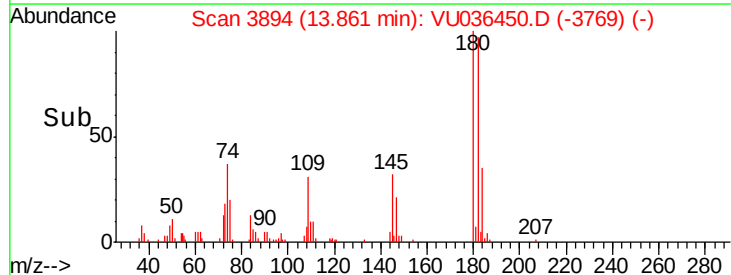
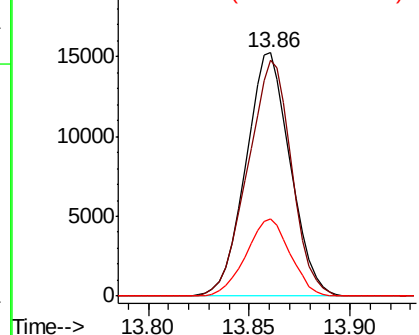


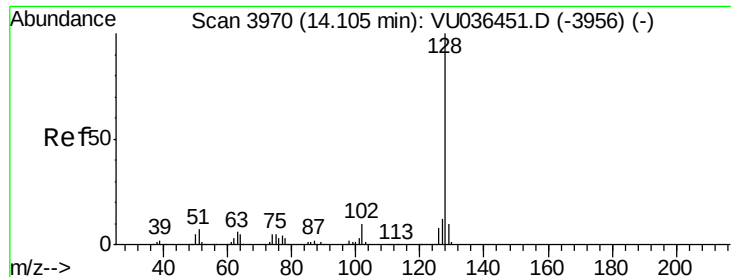
Abundance

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: 6.996 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

Instrument :

MSVOA_U

ClientSampled :

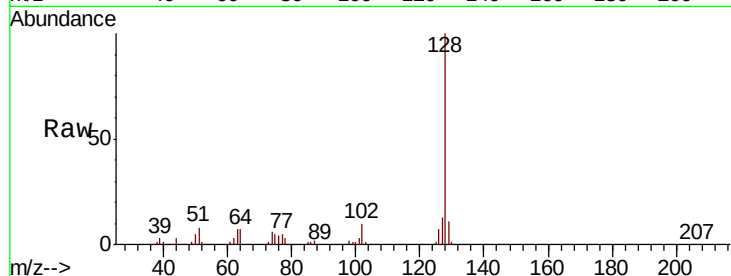
Tot Ion:128 Resp: 72089

Ion Ratio Lower Upper

128 100

127 12.8 10.0 15.0

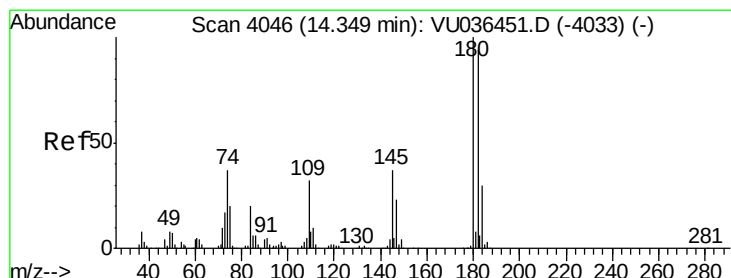
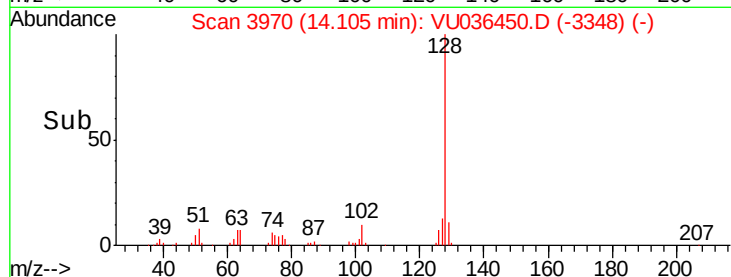
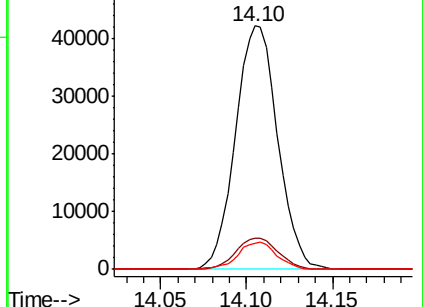
129 10.2 8.6 12.8



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: 8.558 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036450.D

Acq: 14 Jan 2020 16:59

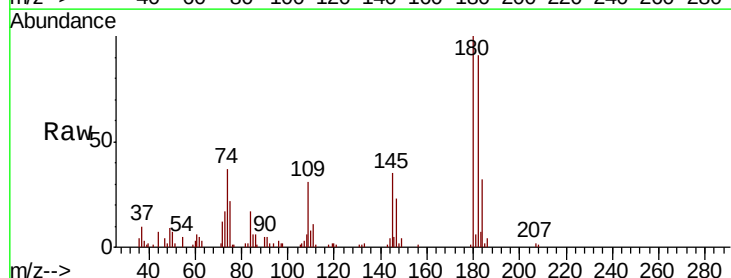
Tgt Ion:180 Resp: 27092

Ion Ratio Lower Upper

180 100

182 91.7 77.1 115.7

145 33.9 29.2 43.8



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

