

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051520\
 Data File : VU038195.D
 Acq On : 15 May 2020 14:07
 Operator : JC/MD
 Sample : L2657-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 16 03:33:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 16 03:30:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	334264	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	326738	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	154379	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	114362	3.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.80%
7) Chloroethane-d5	1.93	69	113807	4.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.00%
11) 1,1-Dichloroethene-d2	2.59	63	164858	3.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.40%
20) 2-Butanone-d5	4.66	46	408903	54.21	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.42%
24) Chloroform-d	5.10	84	219289	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.74	65	132240	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	5.76	84	454875	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.72	67	154688	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	7.92	98	399210	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	8.20	79	53561	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.65	63	344160	57.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.16%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	123534	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	148691	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	33347	1.091	ug/L 100
9) Trichlorofluoromethane	2.16	101	236206	6.399	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	8606	0.376	ug/L # 83
12) 1,1-Dichloroethene	2.61	96	21895	0.944	ug/L # 37
15) Methyl Acetate	2.81	43	7931	0.599	ug/L # 53
17) Methyl tert-butyl Ether	3.40	73	38866	0.603	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	6637	0.262	ug/L 91
19) 1,1-Dichloroethane	3.91	63	18379	0.372	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	116227	4.259	ug/L 100
25) Chloroform	5.13	83	12498	0.271	ug/L 100
29) 1,1,1-Trichloroethane	5.35	97	5929	0.158	ug/L 93
31) Carbon tetrachloride	5.56	117	4041	0.134	ug/L 98
34) Trichloroethene	6.57	95	1114952	42.605	ug/L 98
35) Methylcyclohexane	6.72	83	34043	0.803	ug/L # 15
37) 1,2-Dichloropropane	6.72	63	16028	0.564	ug/L # 89
39) cis-1,3-Dichloropropene	7.59	75	3675	0.090	ug/L # 81
47) Tetrachloroethene	8.57	164	791433	43.237	ug/L 99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 16 03:30:00 2020
Response via : Initial Calibration

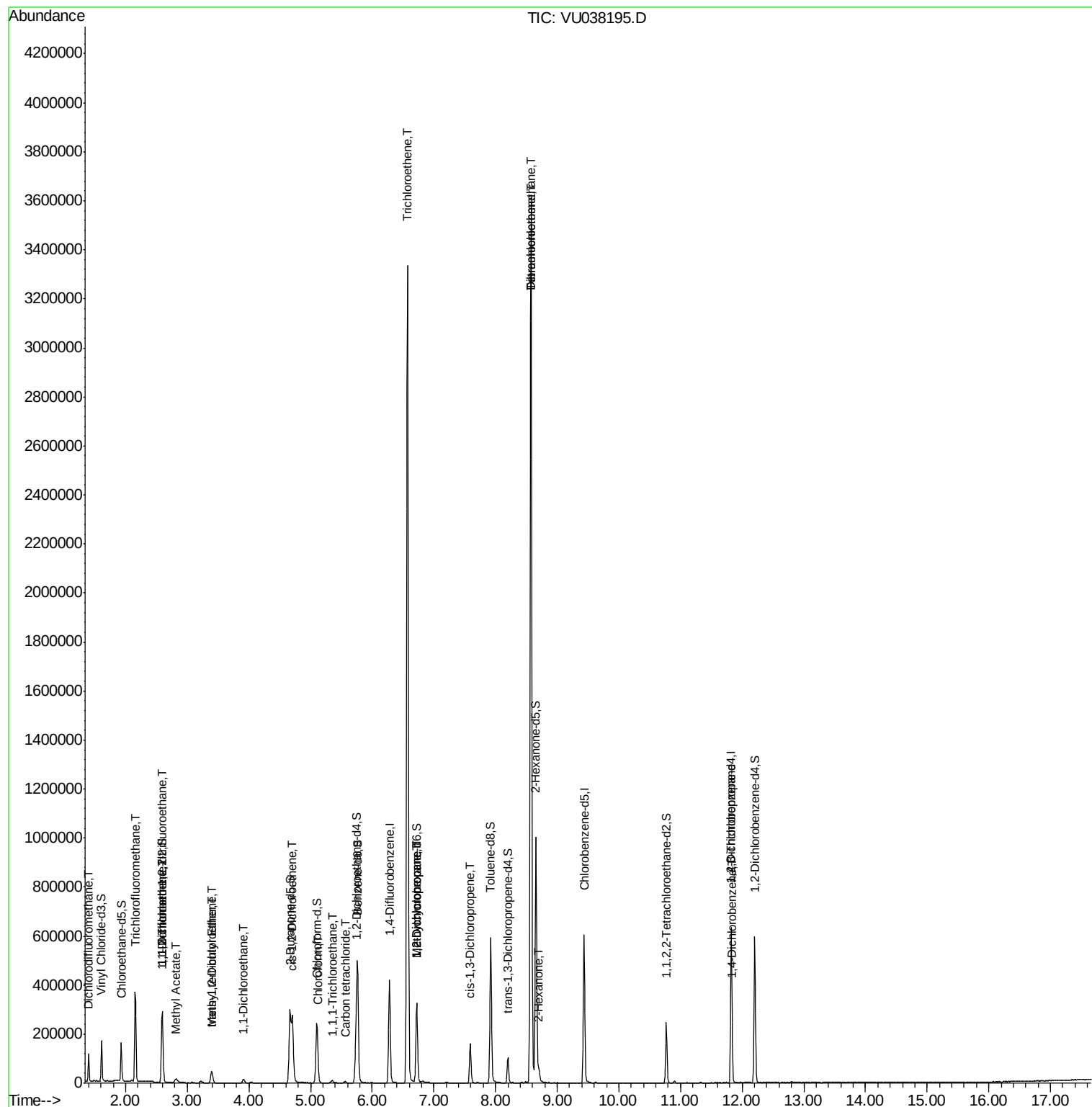
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.70	43	19730	1.368	ug/L	97
49) Dibromochloromethane	8.57	129	755870	36.904	ug/L #	10
59) 1,2,3-Trichloropropane	11.82	75	22623	1.186	ug/L	96
63) 1,4-Dichlorobenzene	11.85	146	4332	0.085	ug/L	97

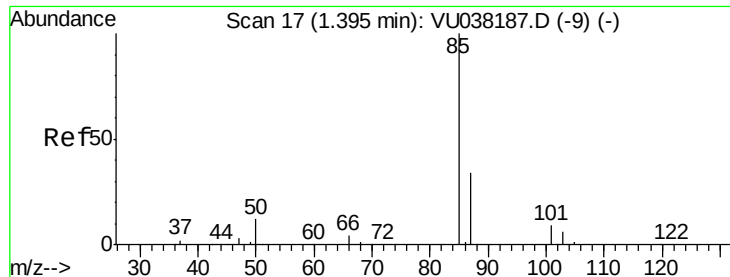
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.091 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Instrument :

MSVOA_U

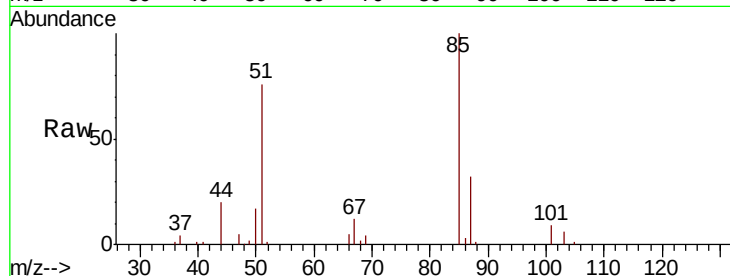
ClientSampleId :

Tot Ion: 85 Resp: 33347

Ion Ratio Lower Upper

85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU038187.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038187.D (-9) (-)

1.39

30000

20000

10000

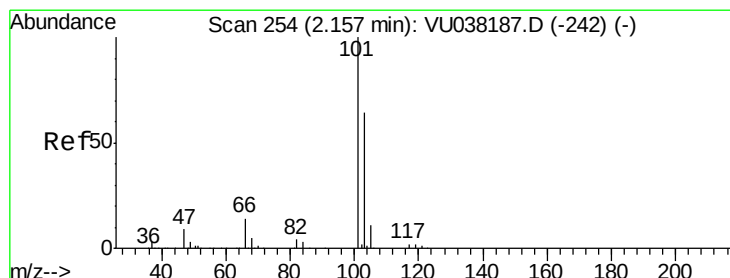
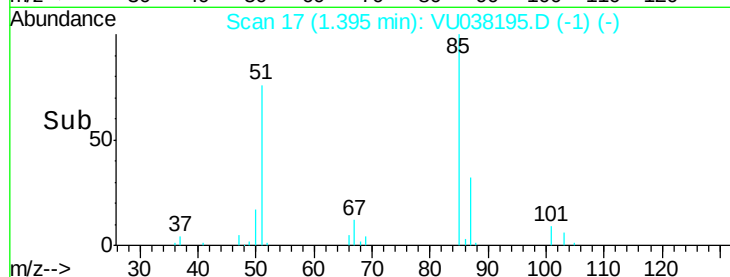
0

Time-->

1.35

1.40

1.45



#9

Trichlorofluoromethane

Concen: 6.399 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU038195.D

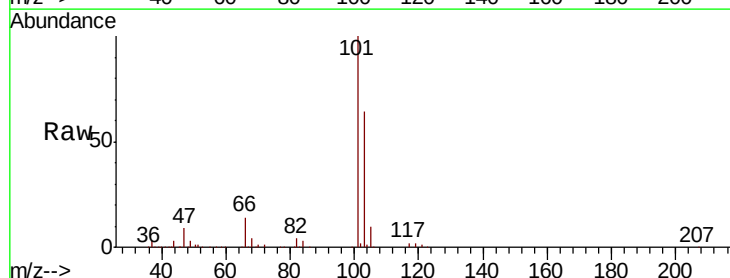
Acq: 15 May 2020 14:07

Tgt Ion: 101 Resp: 236206

Ion Ratio Lower Upper

101 100

103 63.1 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU038187.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU038187.D (-242) (-)

2.16

150000

100000

50000

0

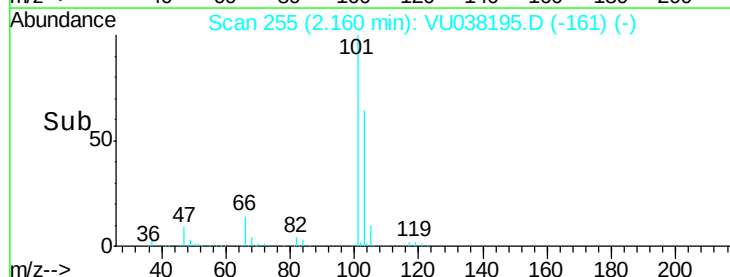
Time-->

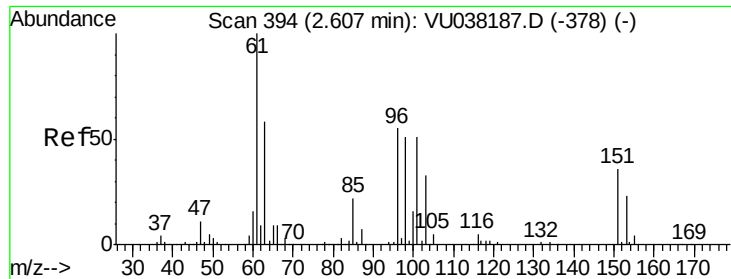
2.10

2.15

2.20

2.25





#10

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

Concen: 0.376 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Instrument :

MSVOA_U

ClientSampled :

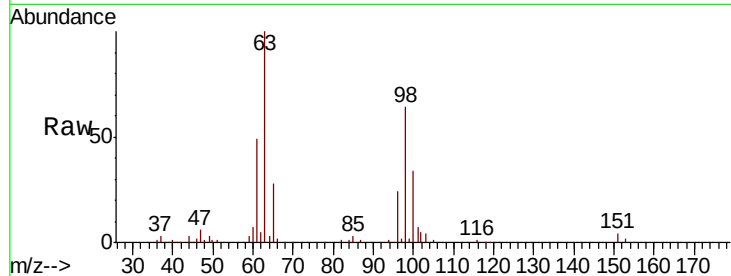
Tot Ion:101 Resp: 8606

Ion Ratio Lower Upper

101 100

85 34.3 35.3 52.9#

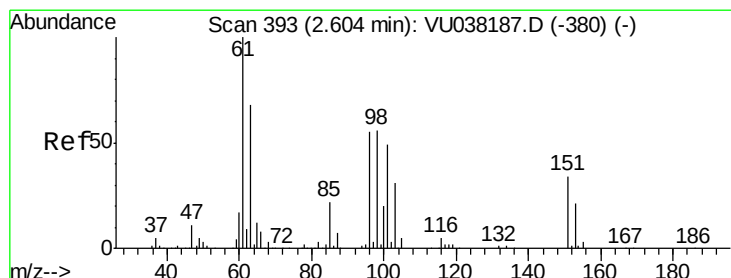
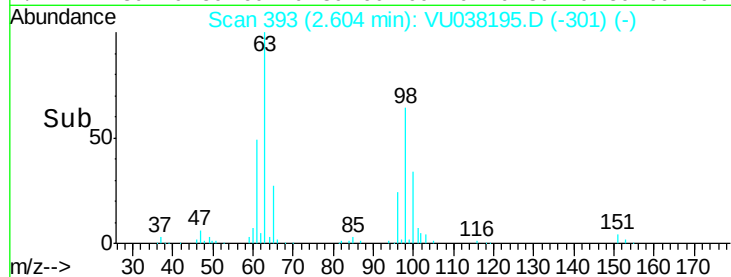
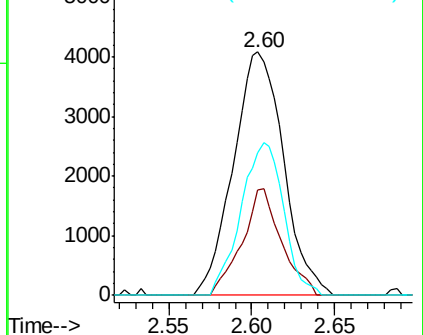
151 53.4 54.2 81.2#



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: 0.944 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

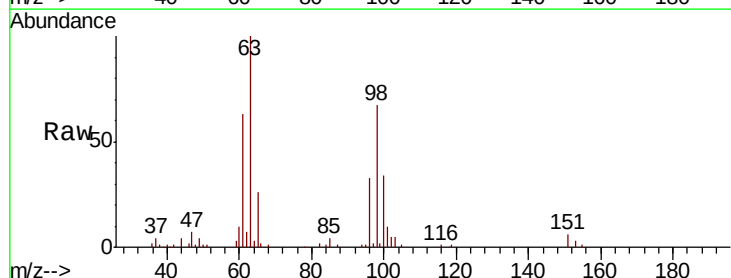
Tgt Ion: 96 Resp: 21895

Ion Ratio Lower Upper

96 100

61 190.8 126.2 234.4

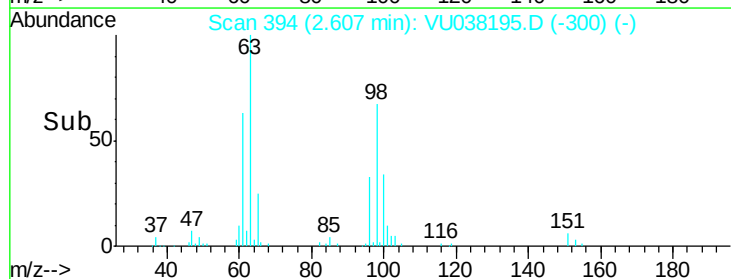
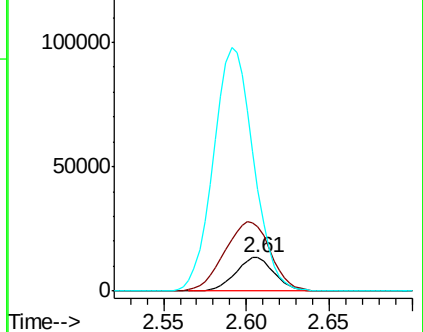
63 301.1 96.9 179.9#

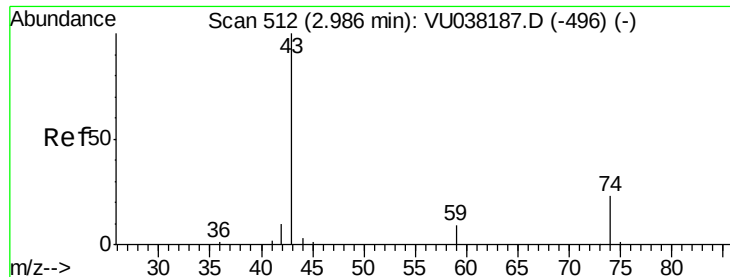


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

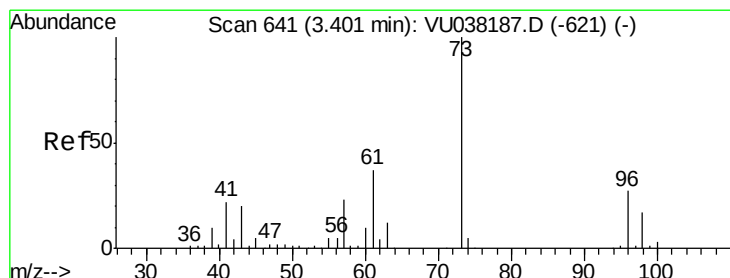
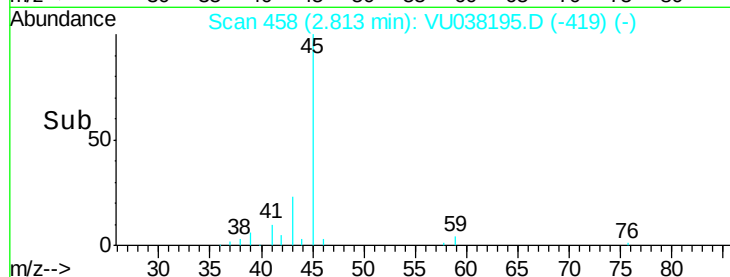
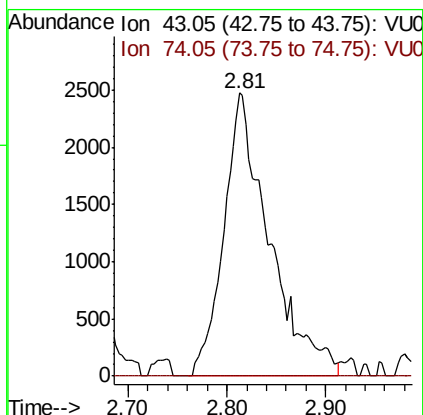
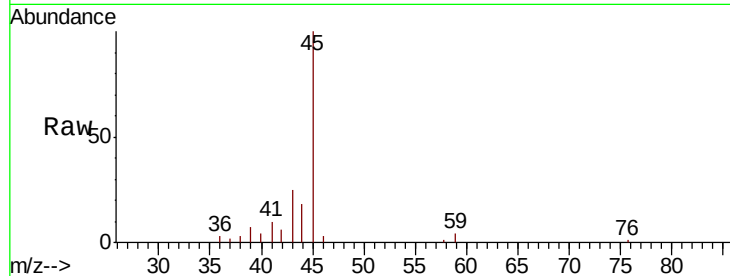




#15
Methvl Acetate
Concen: 0.599 ug/L
RT: 2.81 min Scan# 458
Delta R.T. -0.17 min
Lab File: VU038195.D
Acq: 15 May 2020 14:07

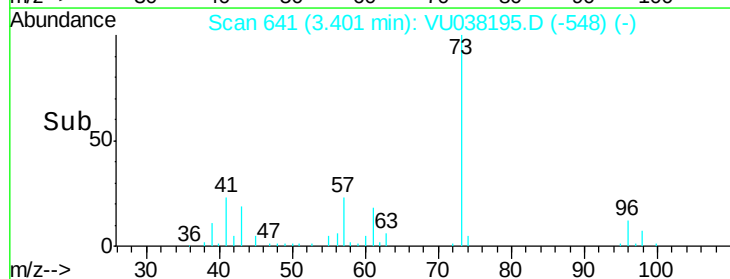
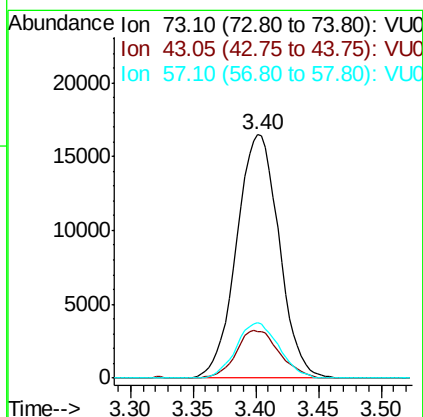
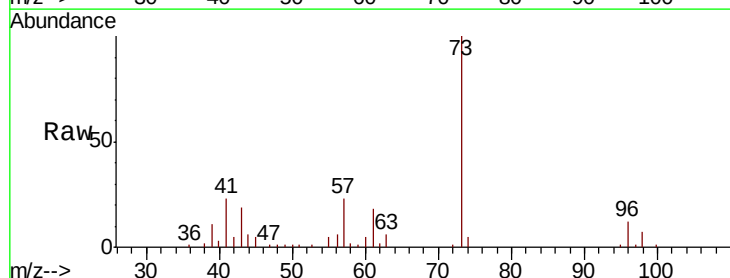
Instrument :
MSVOA_U
ClientSampled :

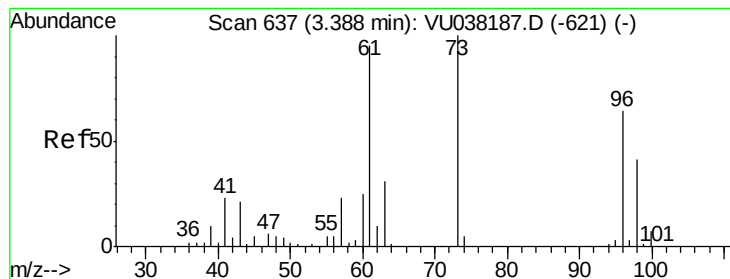
Tot Ion: 43 Resp: 7931
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#17
Methyl tert-butyl Ether
Concen: 0.603 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038195.D
Acq: 15 May 2020 14:07

Tgt Ion: 73 Resp: 38866
Ion Ratio Lower Upper
73 100
43 20.0 16.9 25.3
57 22.8 18.2 27.2





#18

trans-1,2-Dichloroethene

Concen: 0.262 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

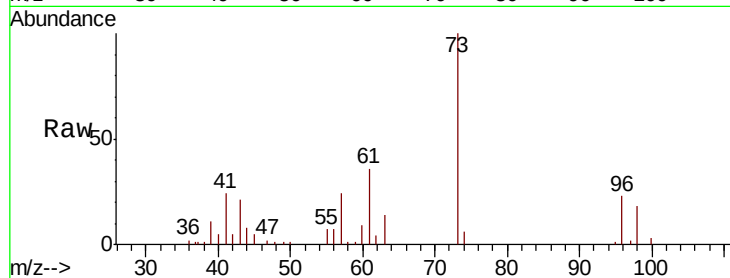
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 96 Resp: 6637

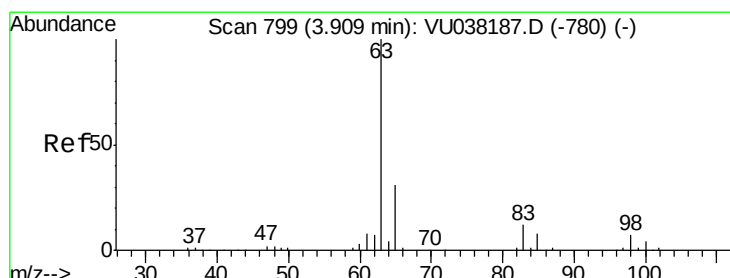
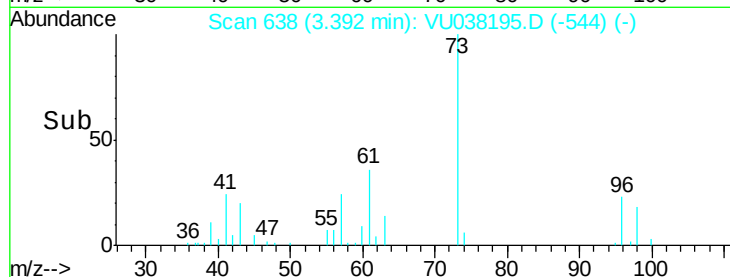
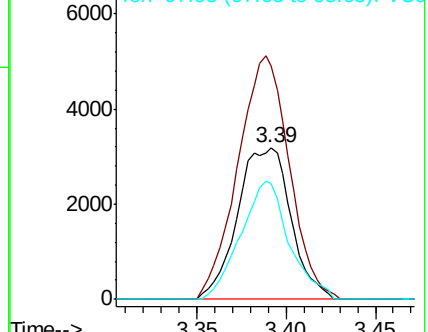
Ion	Ratio	Lower	Upper
96	100		
61	154.0	102.1	189.5
98	75.9	45.6	84.8



Abundance Ion 96.00 (95.70 to 96.70): VU038195.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU038195.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU038195.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 0.372 ug/L

RT: 3.91 min Scan# 799

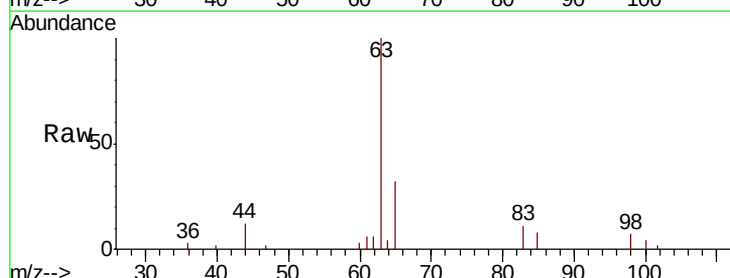
Delta R.T. 0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Tgt Ion: 63 Resp: 18379

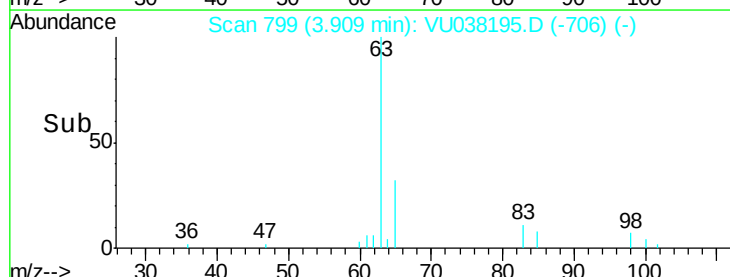
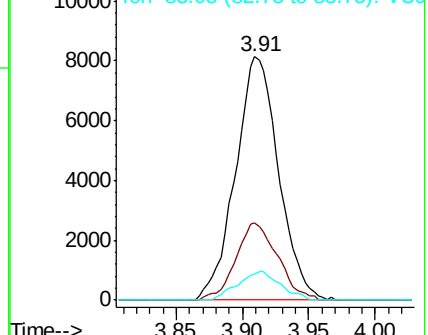
Ion	Ratio	Lower	Upper
63	100		
65	31.5	22.5	41.7
83	10.8	8.9	16.5

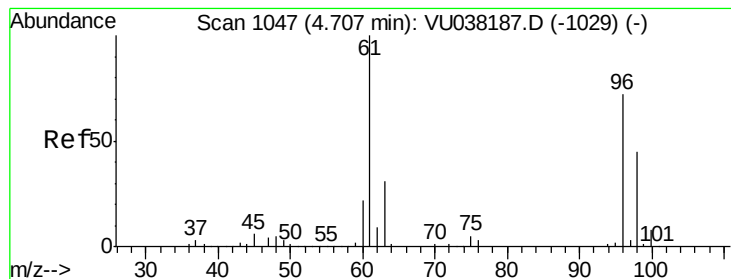


Abundance Ion 63.10 (62.80 to 63.80): VU038195.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU038195.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU038195.D (-706) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.259 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Instrument :
MSVOA_U
ClientSampled :

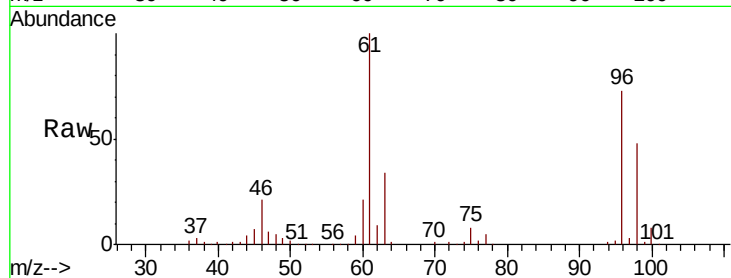
Tot Ion: 96 Resp: 116227

Ion Ratio Lower Upper

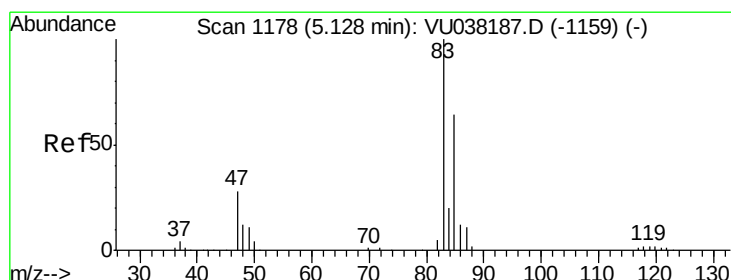
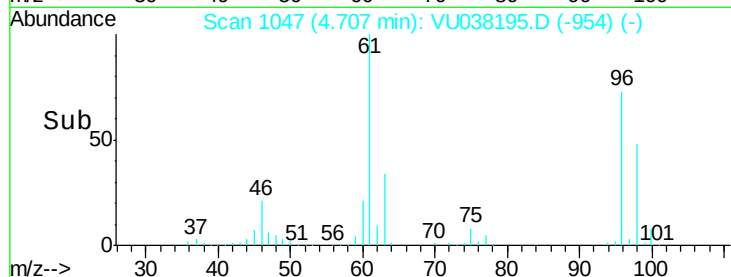
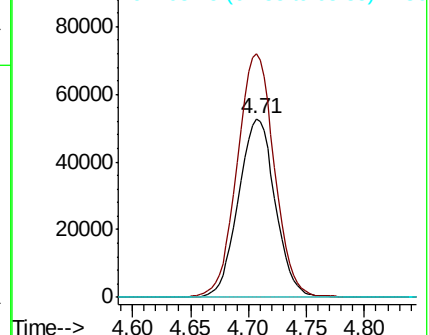
96 100

61 136.3 95.3 176.9

68 0.0 0.0 0.0



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



#25

Chloroform

Concen: 0.271 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU038195.D

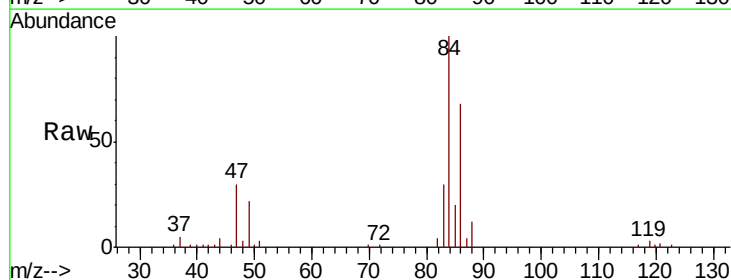
Acq: 15 May 2020 14:07

Tgt Ion: 83 Resp: 12498

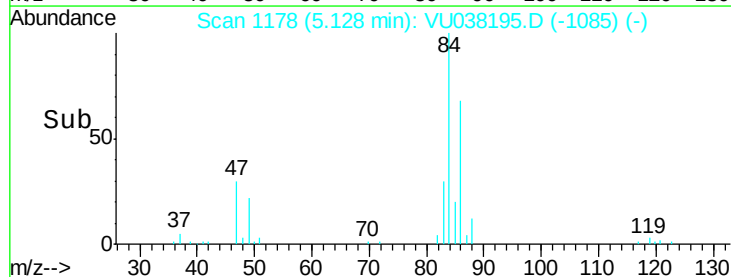
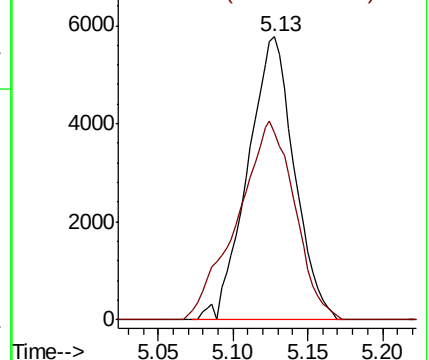
Ion Ratio Lower Upper

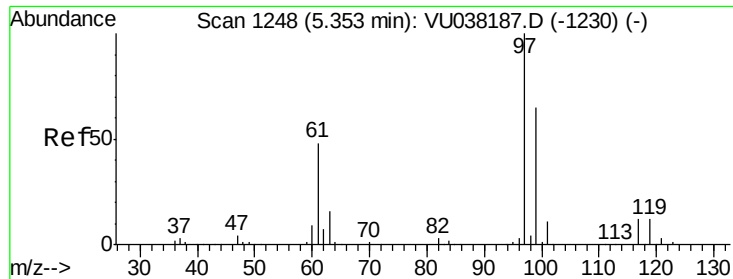
83 100

85 66.1 46.2 85.8



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

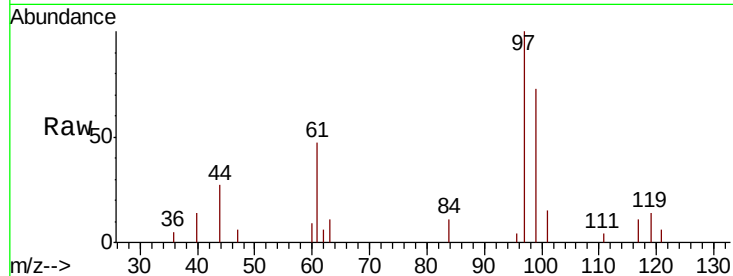




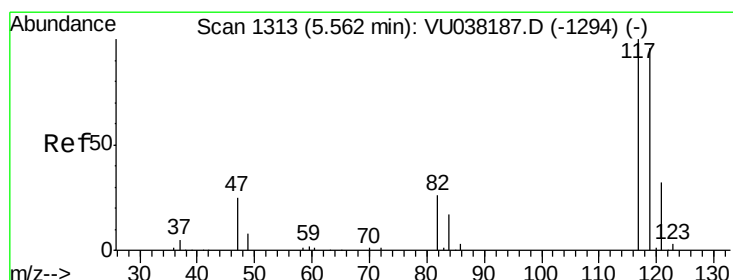
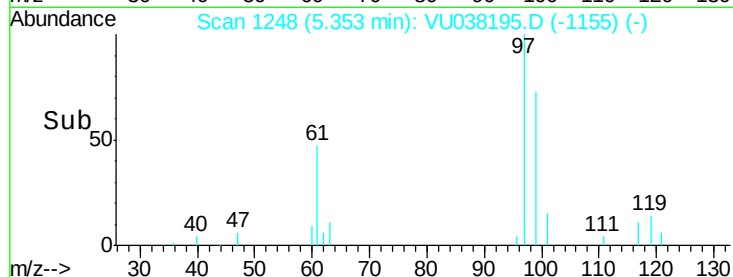
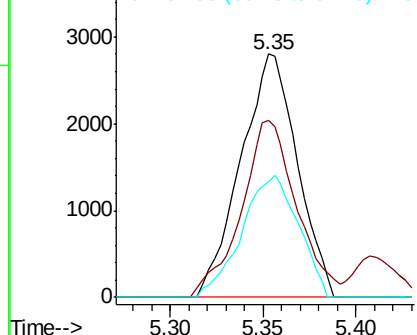
#29
 1,1,1-Trichloroethane
 Concen: 0.158 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 5929
 Ion Ratio Lower Upper
 97 100
 99 71.3 51.0 76.4
 61 50.1 38.2 57.4

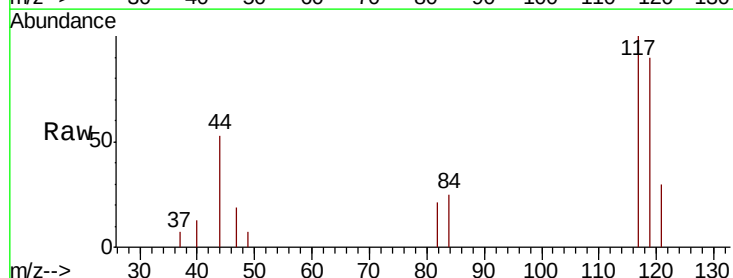


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

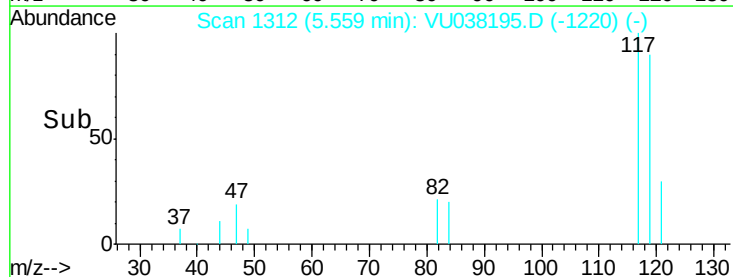
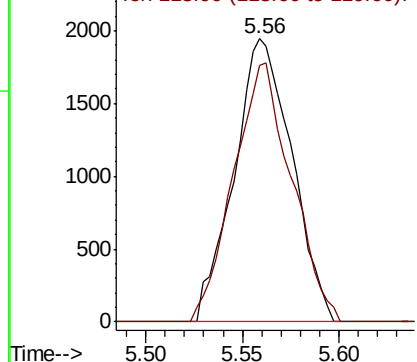


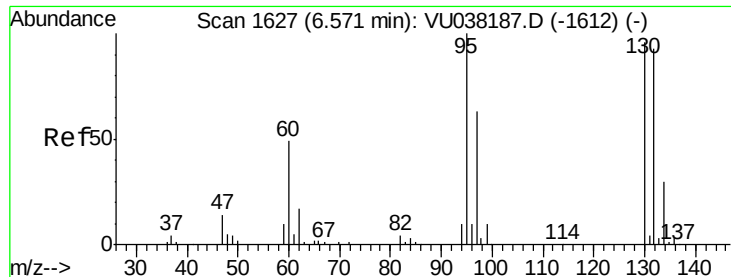
#31
 Carbon tetrachloride
 Concen: 0.134 ug/L
 RT: 5.56 min Scan# 1312
 Delta R.T. -0.00 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

Tgt Ion: 117 Resp: 4041
 Ion Ratio Lower Upper
 117 100
 119 92.2 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V

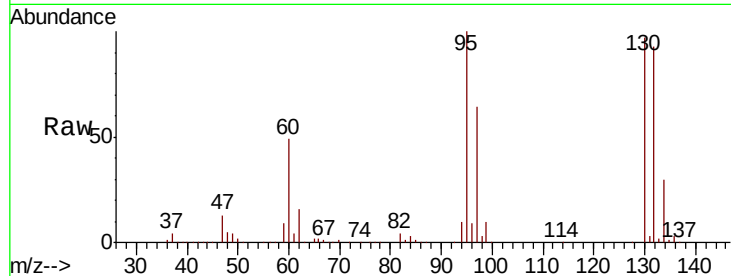




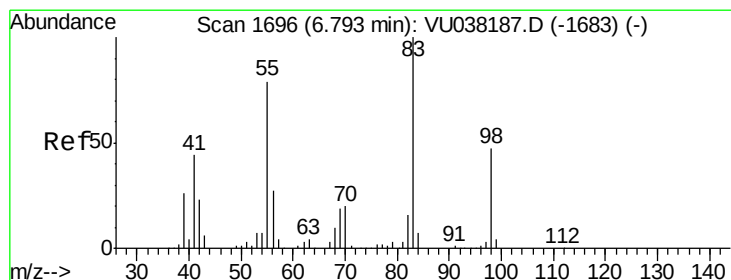
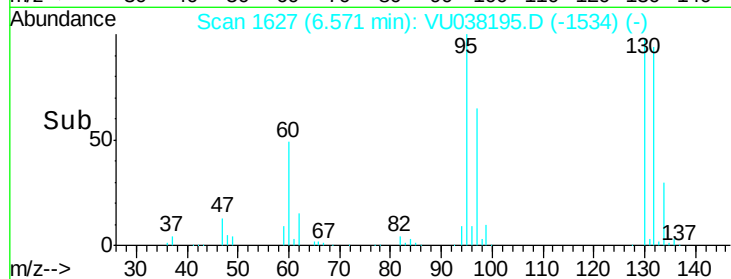
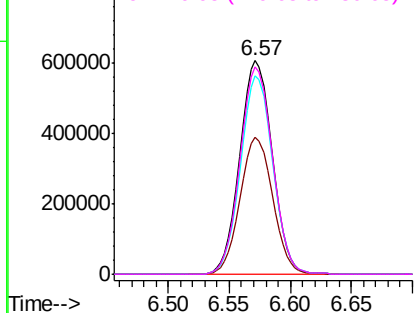
#34
 Trichloroethene
 Concen: 42.605 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 1114952
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.9 83.3
 132 92.9 63.3 117.5
 130 96.8 65.7 122.1

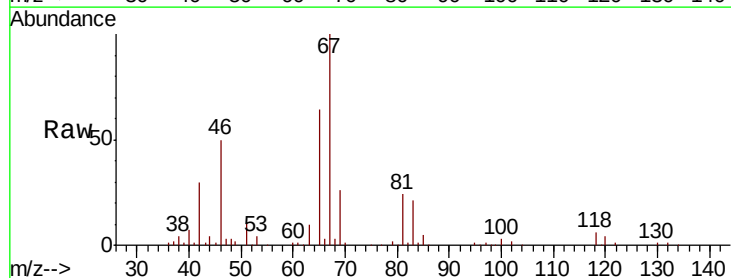


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

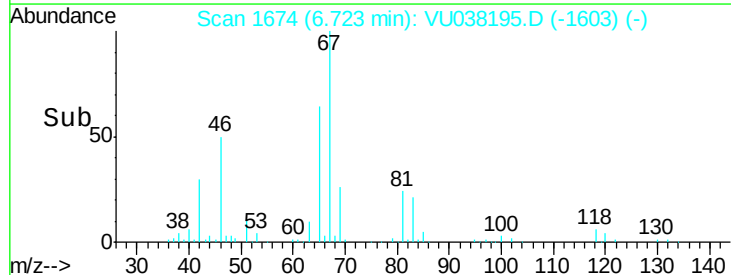
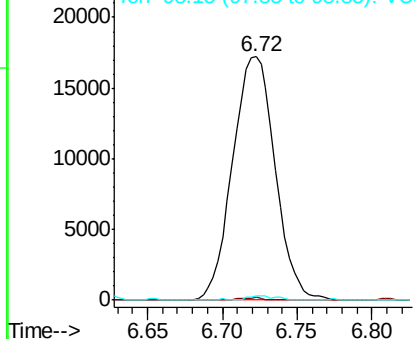


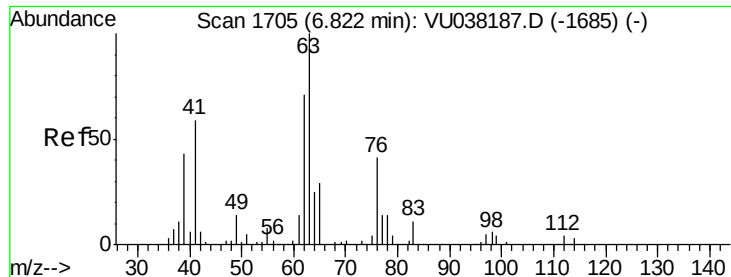
#35
 Methylcyclohexane
 Concen: 0.803 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

Tgt Ion: 83 Resp: 34043
 Ion Ratio Lower Upper
 83 100
 55 0.4 66.7 100.1#
 98 0.0 39.4 59.2#



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

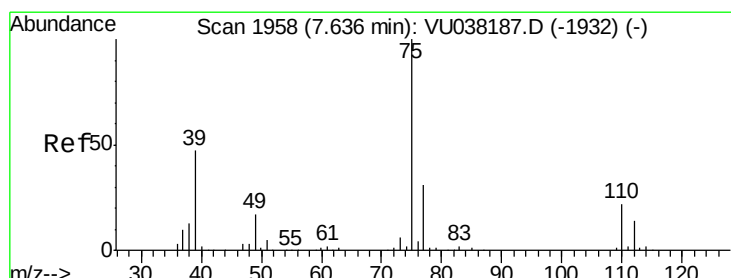
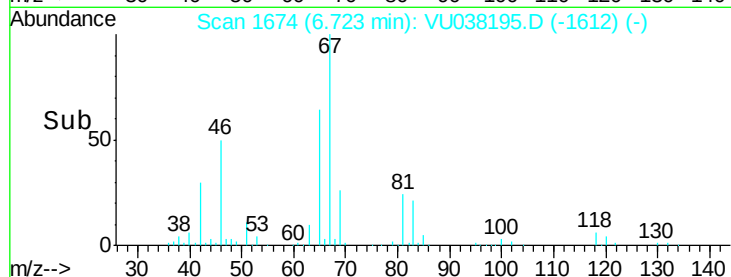
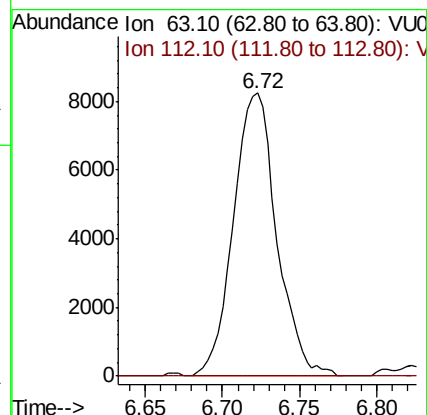
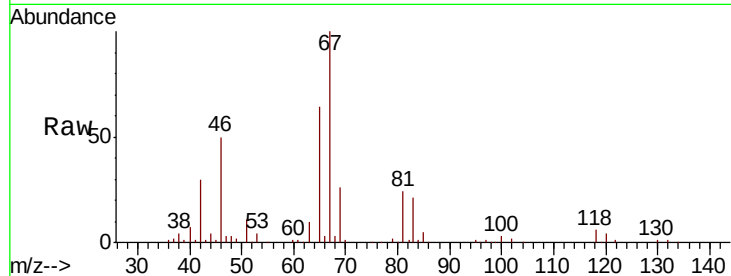




#37
 1,2-Dichloropropane
 Concen: 0.564 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

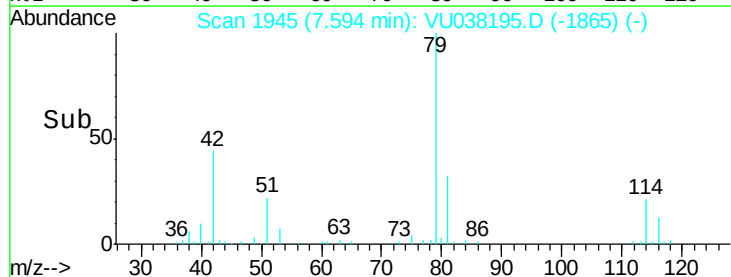
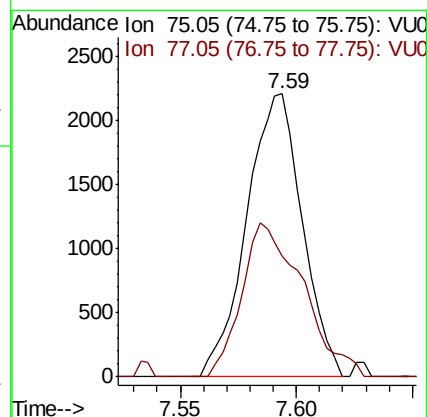
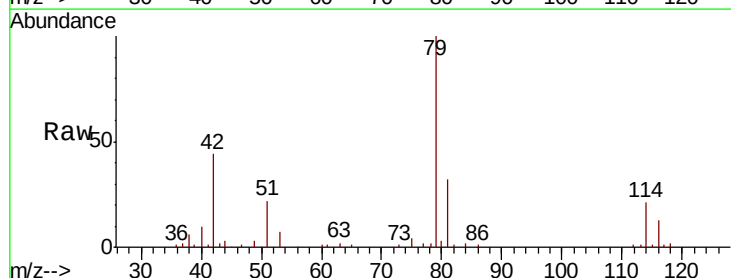
Instrument :
 MSVOA_U
 ClientSampleId :

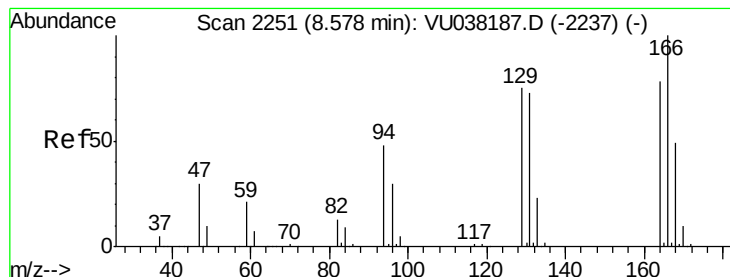
Tot Ion: 63 Resp: 16028
 Ion Ratio Lower Upper
 63 100
 112 0.3 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.090 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

Tgt Ion: 75 Resp: 3675
 Ion Ratio Lower Upper
 75 100
 77 42.8 22.4 41.6#





#47

Tetrachloroethene

Concen: 43.237 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 791433

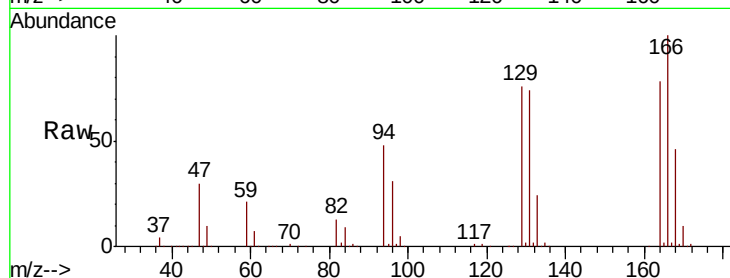
Ion Ratio Lower Upper

164 100

129 96.4 68.8 127.8

131 94.3 66.8 124.2

166 127.6 88.9 165.1

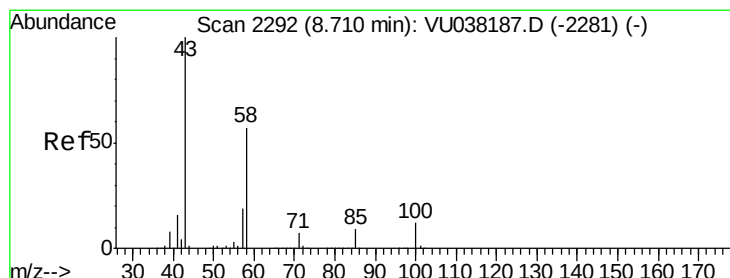
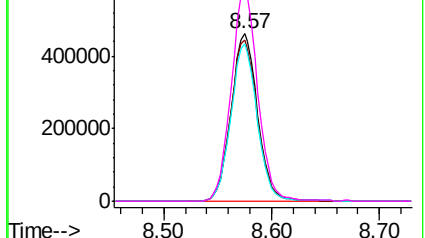
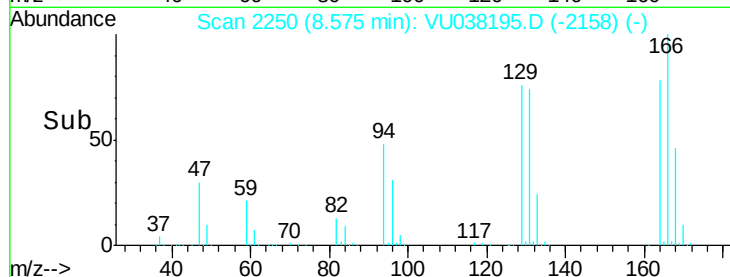


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 1.368 ug/L

RT: 8.70 min Scan# 2290

Delta R.T. -0.01 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Tgt Ion: 43 Resp: 19730

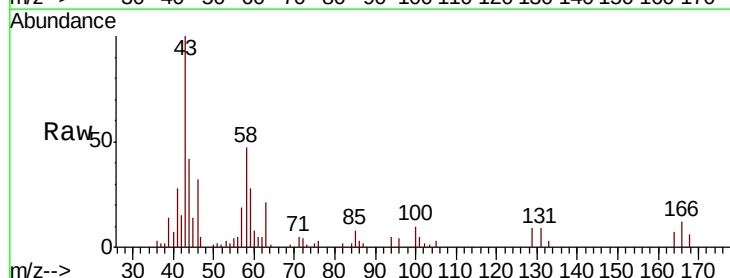
Ion Ratio Lower Upper

43 100

58 56.0 45.2 67.8

57 22.9 15.5 23.3

100 10.8 9.5 14.3

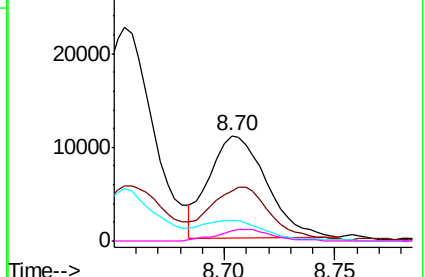
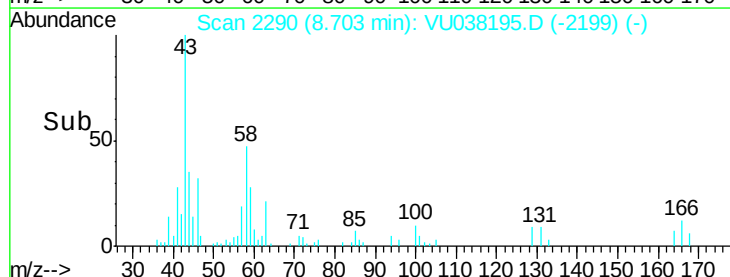


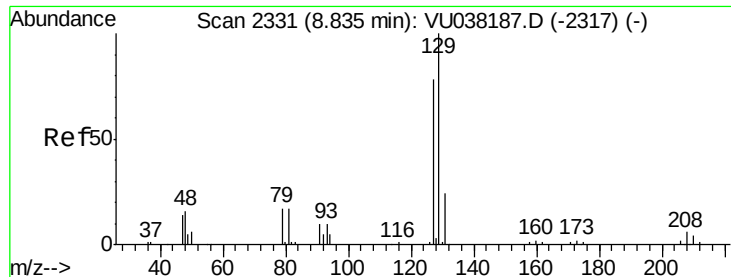
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0

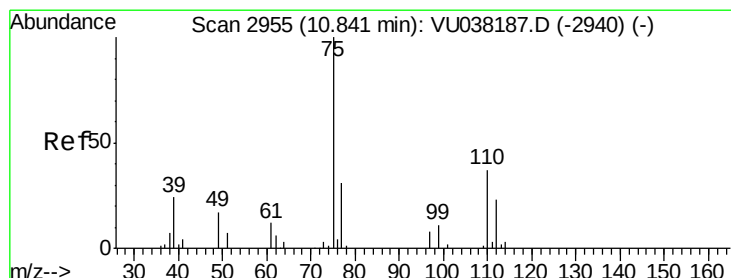
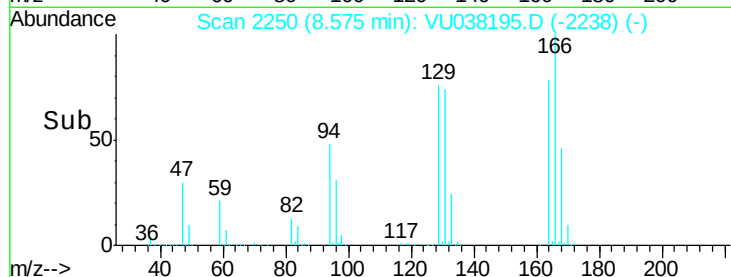
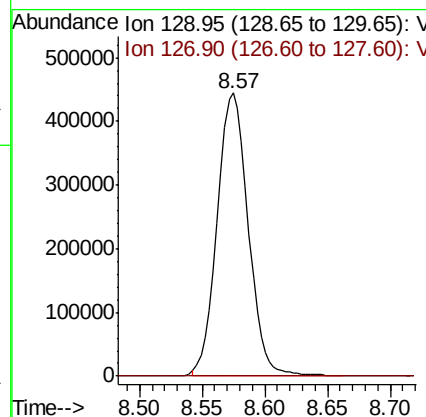
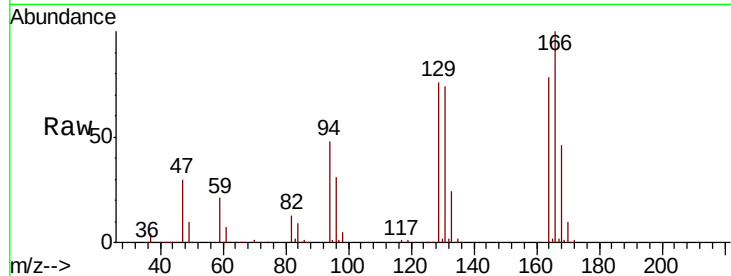




#49
 Dibromochloromethane
 Concen: 36.904 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.26 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

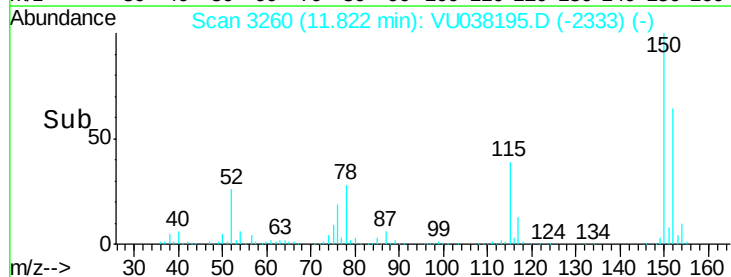
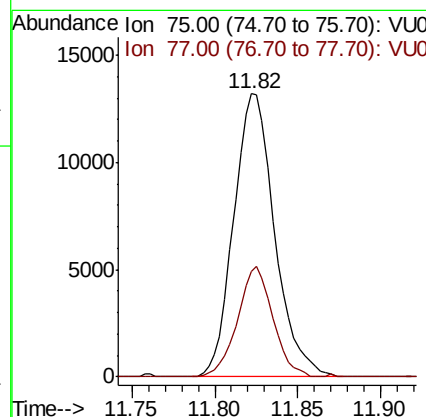
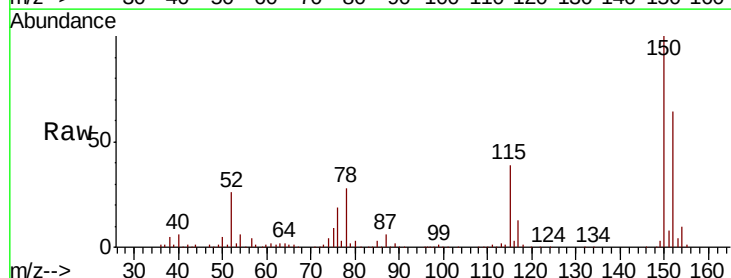
Instrument :
 MSVOA_U
 ClientSampleId :

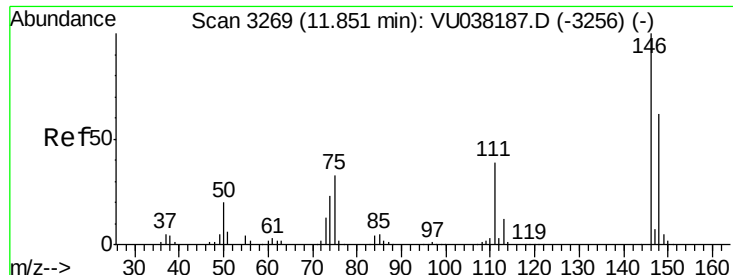
Tot Ion:129 Resp: 755870
 Ion Ratio Lower Upper
 129 100
 127 0.1 55.6 103.4#



#59
 1,2,3-Trichloropropane
 Concen: 1.186 ug/L
 RT: 11.82 min Scan# 3260
 Delta R.T. 0.98 min
 Lab File: VU038195.D
 Acq: 15 May 2020 14:07

Tgt Ion: 75 Resp: 22623
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.4 38.0





#63

1,4-Dichlorobenzene

Concen: 0.085 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038195.D

Acq: 15 May 2020 14:07

Instrument :

MSVOA_U

ClientSampleId :

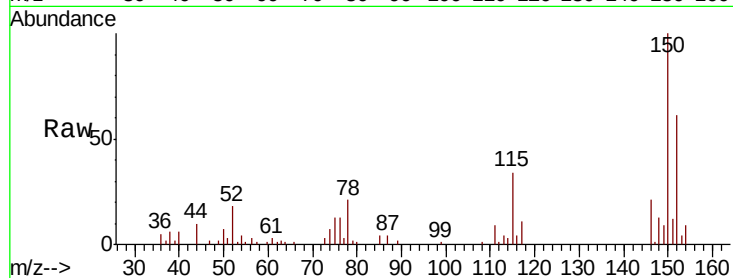
Tot Ion:146 Resp: 4332

Ion Ratio Lower Upper

146 100

111 40.7 27.2 50.6

148 60.4 43.8 81.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

