

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051320\
 Data File : VU038147.D
 Acq On : 13 May 2020 16:40
 Operator : JC/MD
 Sample : L2630-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFX13

Quant Time: May 14 02:29:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 14 01:11:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	369858	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	355179	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	172990	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	127322	3.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.20%
7) Chloroethane-d5	1.93	69	121004	4.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.80%
11) 1,1-Dichloroethene-d2	2.59	63	173611	3.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.40%
20) 2-Butanone-d5	4.66	46	484646	58.06	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.12%
24) Chloroform-d	5.10	84	235791	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.74	65	143219	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.76	84	500935	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.72	67	168330	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.00%
41) Toluene-d8	7.92	98	444998	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
43) trans-1,3-Dichloropropene-	8.20	79	62847	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.65	63	393906	60.62	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.24%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	141773	5.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	166568	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	53739	1.345	ug/L	99
12) 1,1-Dichloroethene	2.60	96	8830	0.344	ug/L #	1
13) Acetone	2.66	43	5666	1.082	ug/L	88
17) Methyl tert-butyl Ether	3.40	73	8243	0.116	ug/L #	1
18) trans-1,2-Dichloroethene	3.39	96	6492	0.232	ug/L	94
19) 1,1-Dichloroethane	3.91	63	166619	3.044	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	243995	8.080	ug/L	99
25) Chloroform	5.13	83	92467	1.811	ug/L	98
27) 1,2-Dichloroethane	5.83	62	18785	0.521	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	49093	1.206	ug/L	95
30) Cyclohexane	5.43	56	7789	0.162	ug/L	88
33) Benzene	5.81	78	39104	0.344	ug/L	100
34) Trichloroethene	6.57	95	10804	0.380	ug/L	97
45) 1,1,2-Trichloroethane	8.42	97	8867	0.413	ug/L	95
51) Chlorobenzene	9.47	112	72346	0.971	ug/L	98
54) o-Xylene	10.12	106	6490	0.135	ug/L	88
62) 1,3-Dichlorobenzene	11.76	146	9641	0.171	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 14 01:11:51 2020
Response via : Initial Calibration

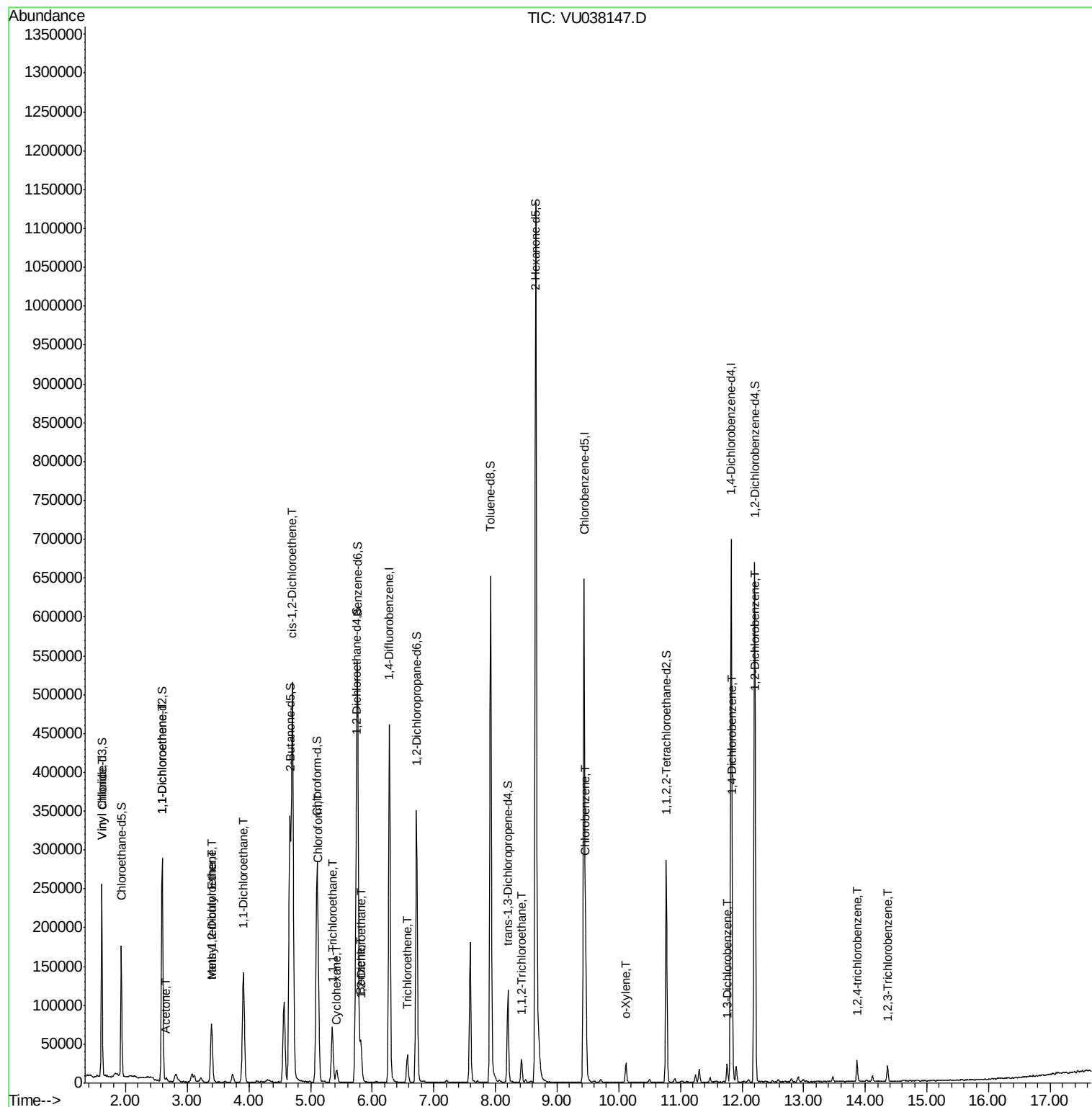
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.85	146	12779	0.224	ug/L	92
65) 1,2-Dichlorobenzene	12.22	146	6213	0.115	ug/L #	88
68) 1,2,4-trichlorobenzene	13.87	180	7986	0.216	ug/L	96
70) 1,2,3-Trichlorobenzene	14.36	180	5740	0.167	ug/L	95

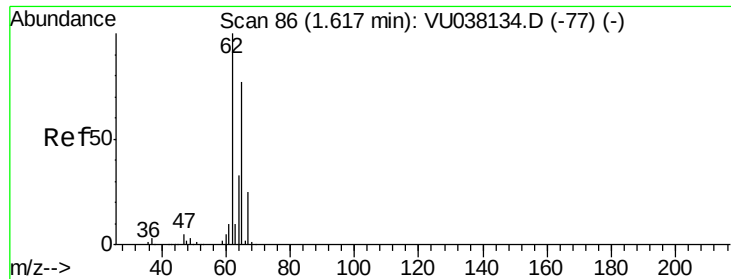
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.345 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampled :

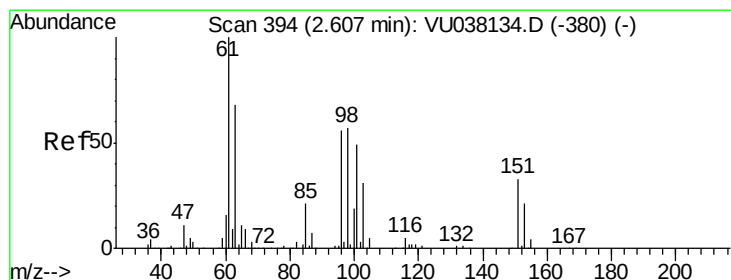
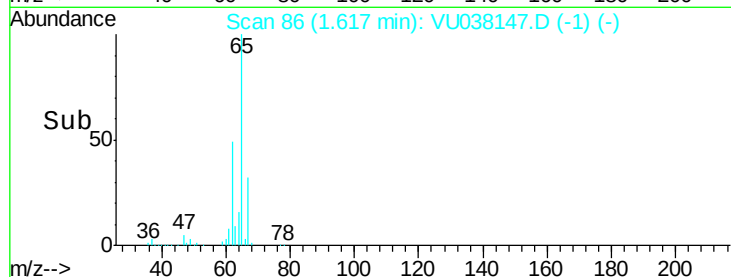
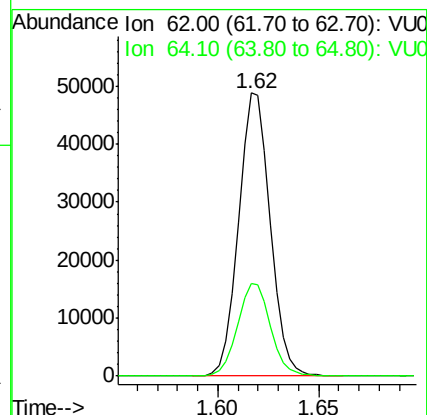
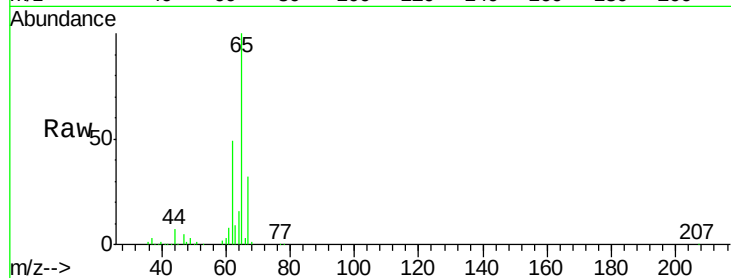
BFX13

Tot Ion: 62 Resp: 53739

Ion Ratio Lower Upper

62 100

64 32.9 22.8 42.4



#12

1,1-Dichloroethene

Concen: 0.344 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

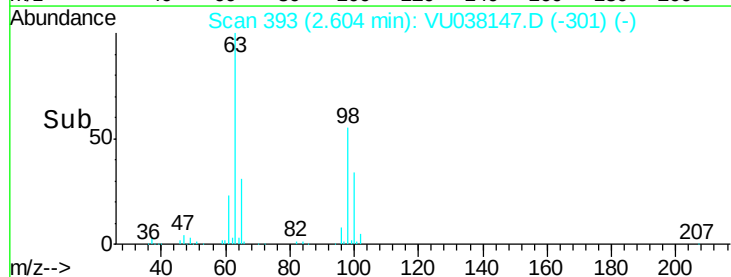
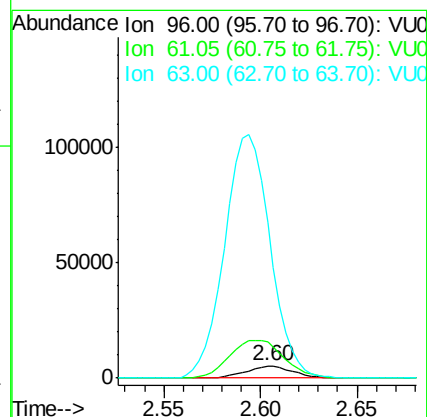
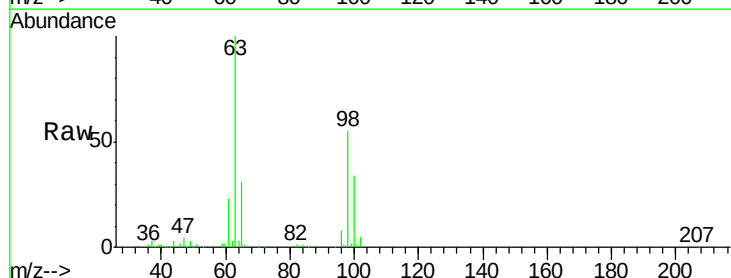
Tgt Ion: 96 Resp: 8830

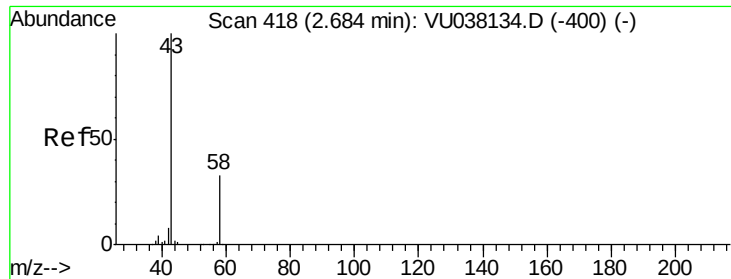
Ion Ratio Lower Upper

96 100

61 297.7 126.2 234.4#

63 1293.9 96.9 179.9#





#13

Acetone

Concen: 1.082 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

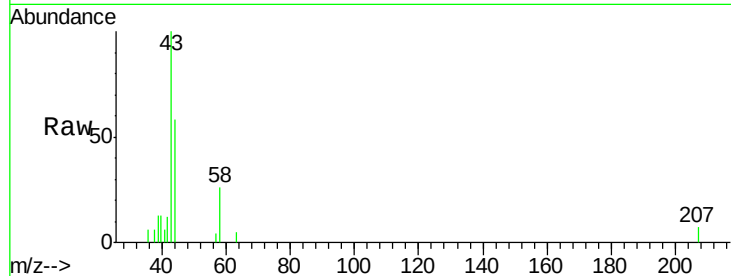
BFX13

Tot Ion: 43 Resp: 5666

Ion Ratio Lower Upper

43 100

58 25.4 0.0 63.6



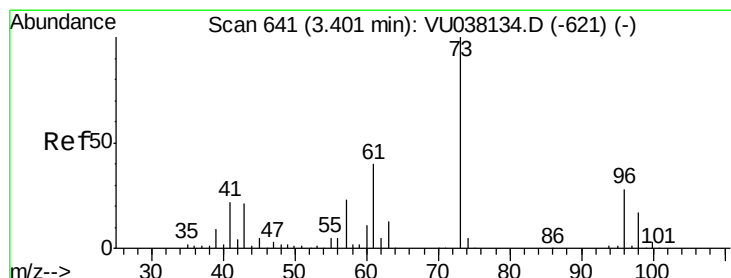
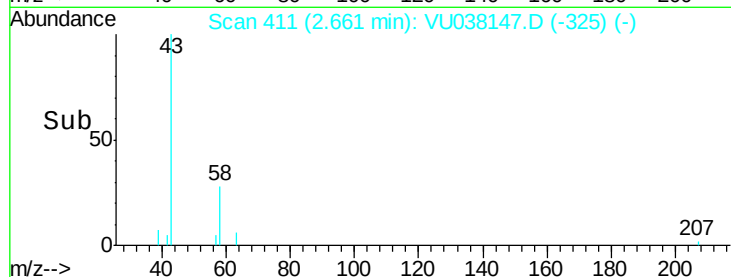
Abundance Ion 43.05 (42.75 to 43.75): VU038147.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU038147.D (-325) (-)

2.66

2.60 2.65 2.70

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.116 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

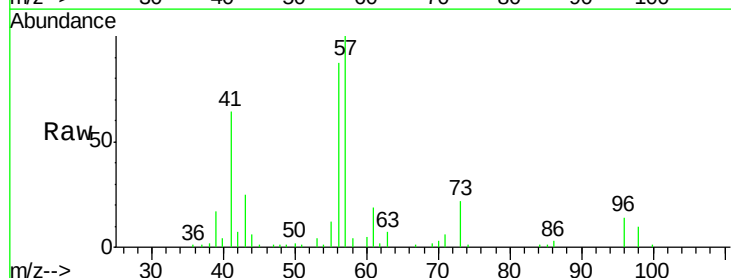
Tgt Ion: 73 Resp: 8243

Ion Ratio Lower Upper

73 100

43 122.4 16.9 25.3#

57 452.0 18.2 27.2#



Abundance Ion 73.10 (72.80 to 73.80): VU038147.D (-548) (-)

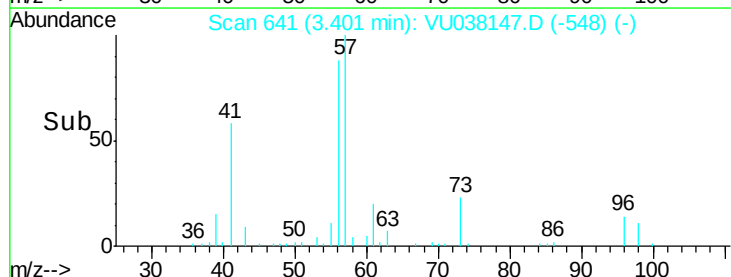
Ion 43.05 (42.75 to 43.75): VU038147.D (-548) (-)

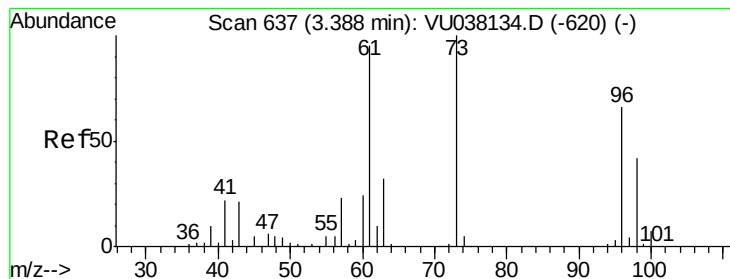
Ion 57.10 (56.80 to 57.80): VU038147.D (-548) (-)

3.40

3.35 3.40 3.45

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.232 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

BFX13

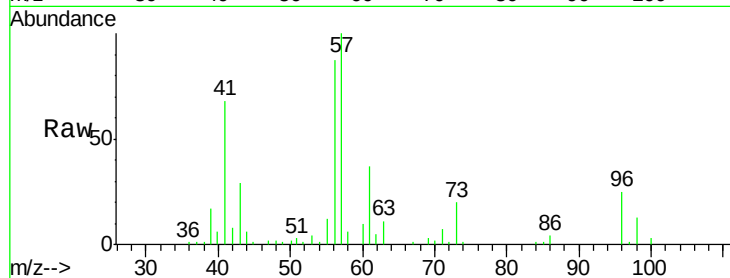
Tot Ion: 96 Resp: 6492

Ion Ratio Lower Upper

96 100

61 147.4 102.1 189.5

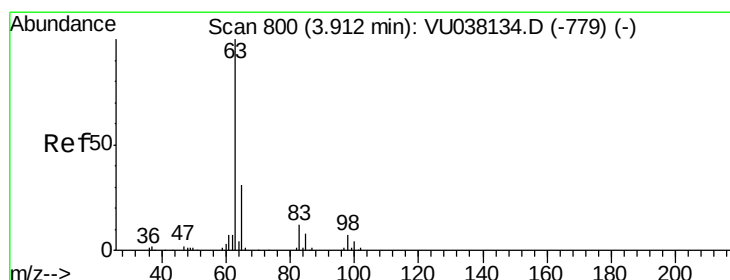
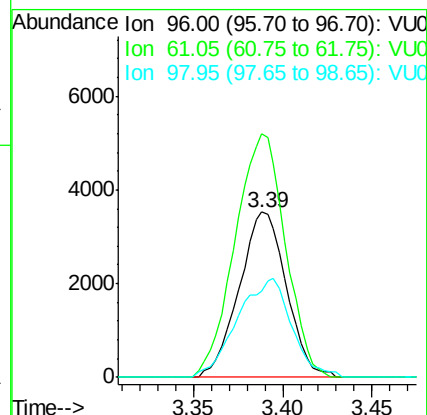
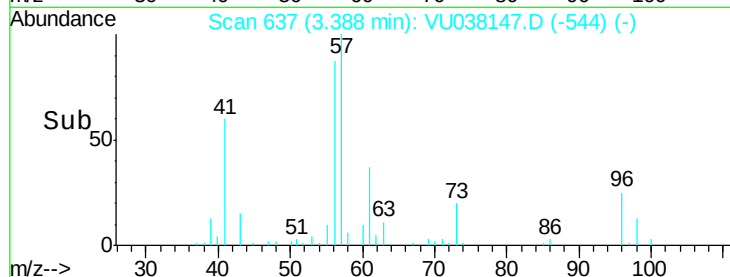
98 52.3 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU038147.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU038147.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU038147.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 3.044 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

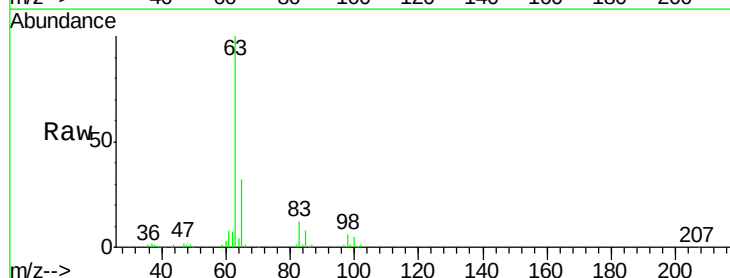
Tgt Ion: 63 Resp: 166619

Ion Ratio Lower Upper

63 100

65 31.6 22.5 41.7

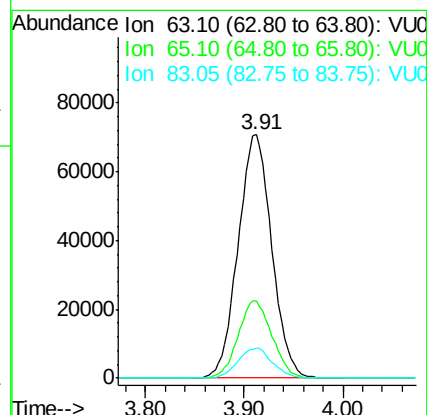
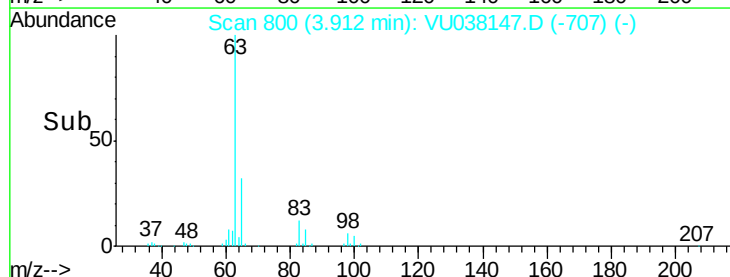
83 12.2 8.9 16.5

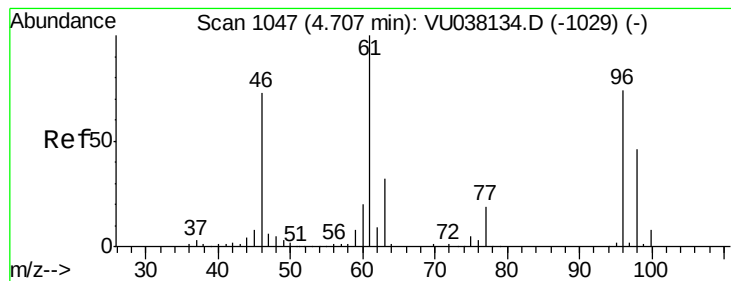


Abundance Ion 63.10 (62.80 to 63.80): VU038147.D (-707) (-)

Ion 65.10 (64.80 to 65.80): VU038147.D (-707) (-)

Ion 83.05 (82.75 to 83.75): VU038147.D (-707) (-)





#22

cis-1,2-Dichloroethene

Concen: 8.080 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

BFX13

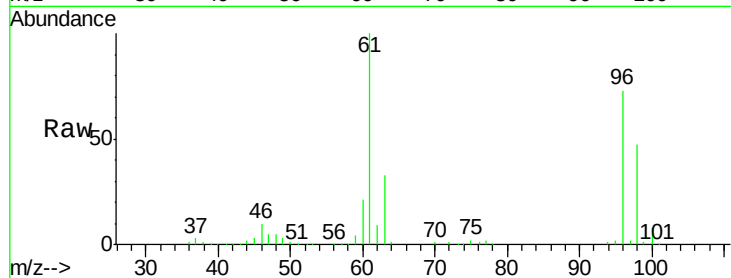
Tot Ion: 96 Resp: 243995

Ion Ratio Lower Upper

96 100

61 137.2 95.3 176.9

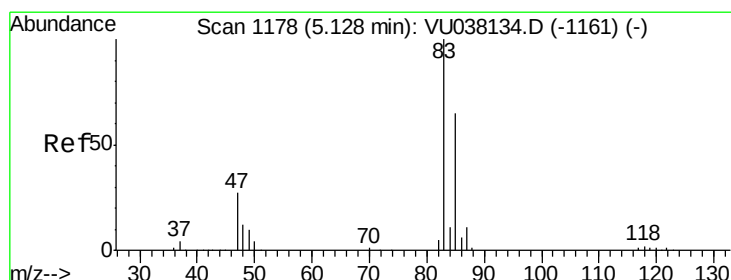
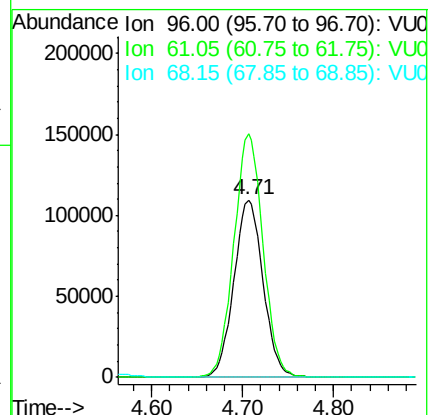
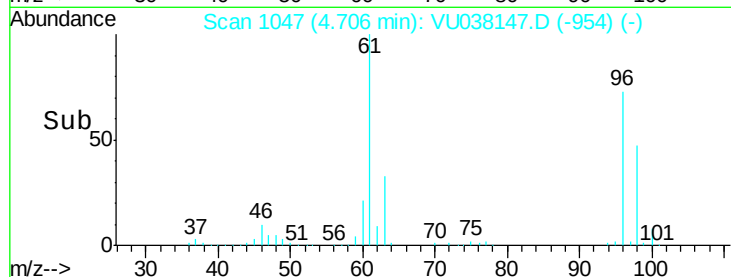
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038147.D (-1029) (-)

Ion 61.05 (60.75 to 61.75): VU038147.D (-1029) (-)

Ion 68.15 (67.85 to 68.85): VU038147.D (-1029) (-)



#25

Chloroform

Concen: 1.811 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU038147.D

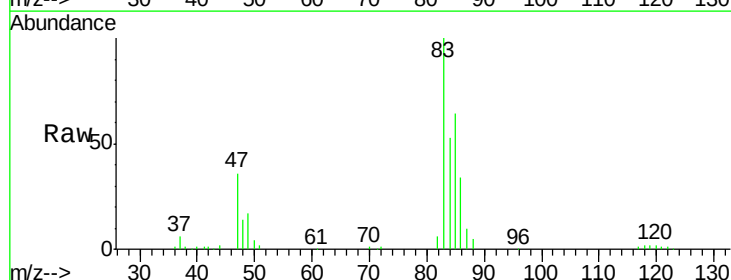
Acq: 13 May 2020 16:40

Tgt Ion: 83 Resp: 92467

Ion Ratio Lower Upper

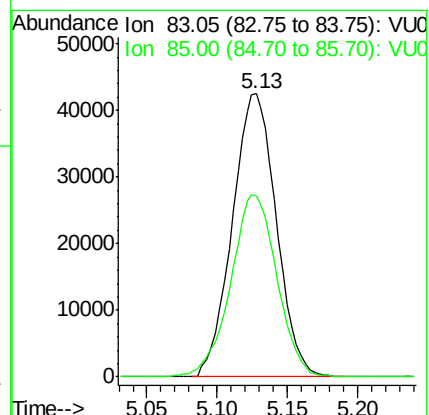
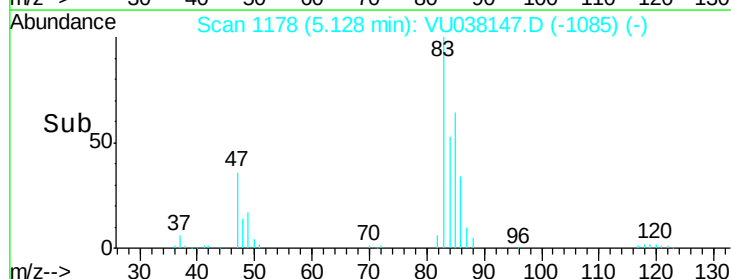
83 100

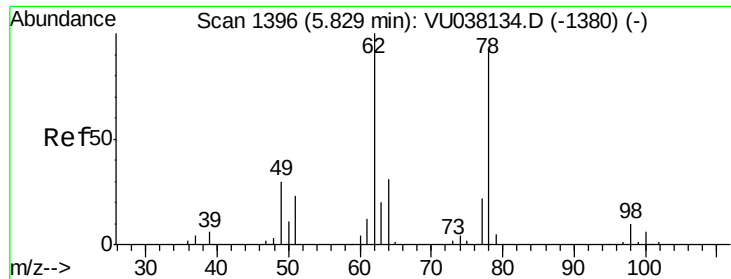
85 64.1 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VU038147.D (-1161) (-)

Ion 85.00 (84.70 to 85.70): VU038147.D (-1161) (-)

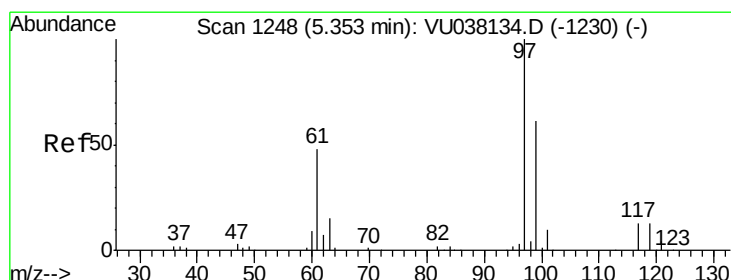
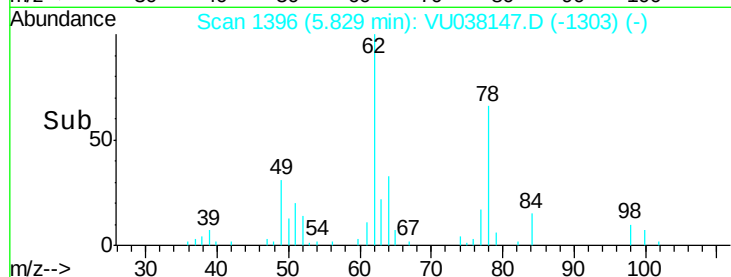
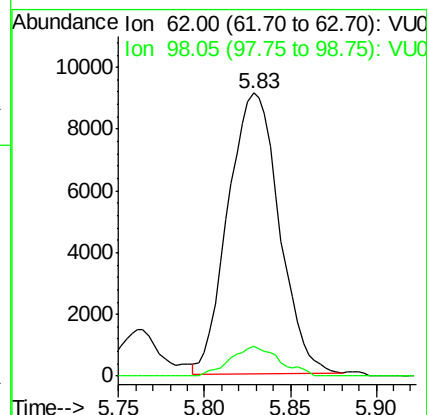
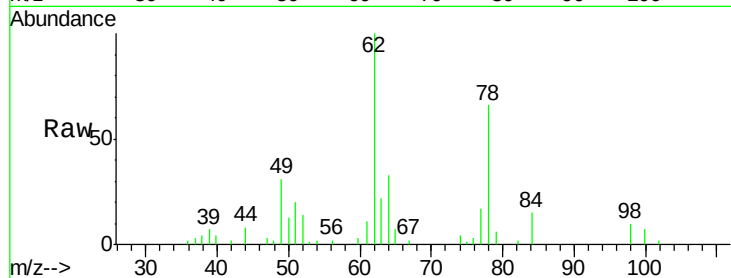




#27
 1,2-Dichloroethane
 Concen: 0.521 ug/L
 RT: 5.83 min Scan# 1396
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

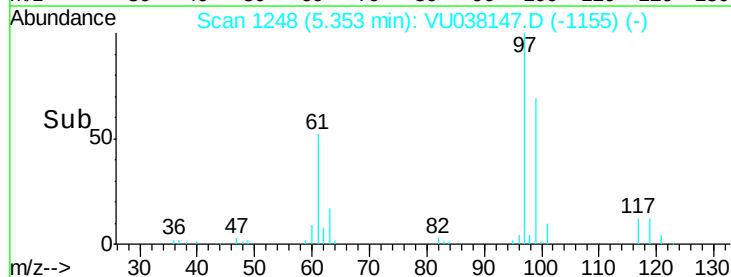
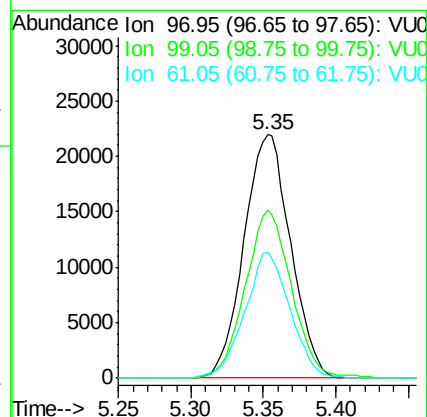
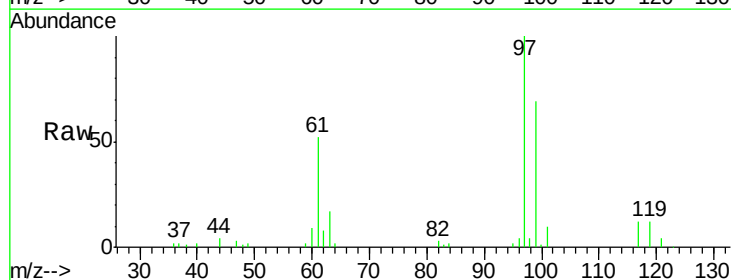
Instrument :
 MSVOA_U
 ClientSampled :
 BFX13

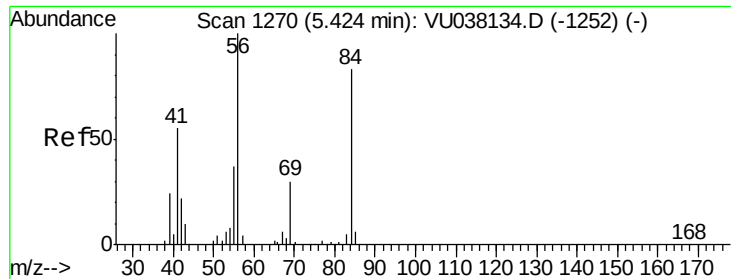
Tot Ion: 62 Resp: 18785
 Ion Ratio Lower Upper
 62 100
 98 10.4 7.8 11.8



#29
 1,1,1-Trichloroethane
 Concen: 1.206 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion: 97 Resp: 49093
 Ion Ratio Lower Upper
 97 100
 99 68.2 51.0 76.4
 61 50.0 38.2 57.4

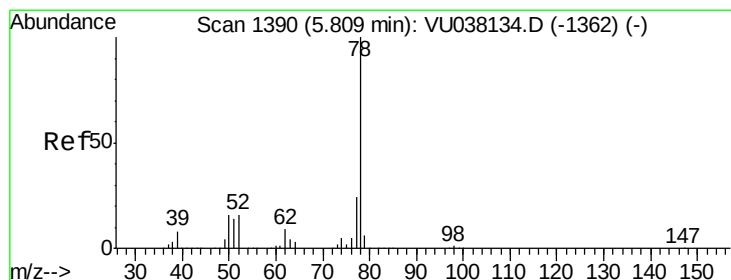
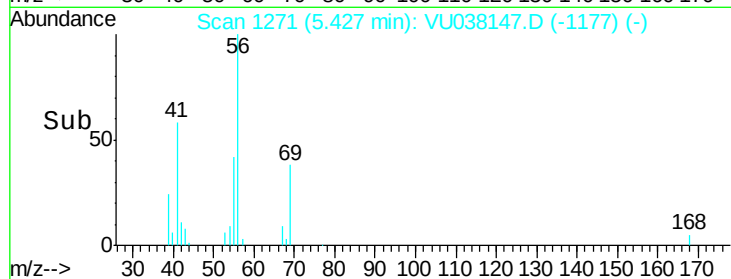
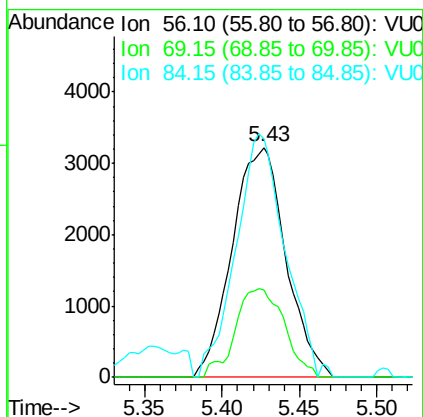
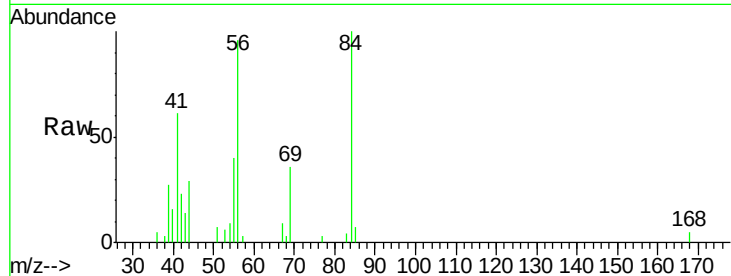




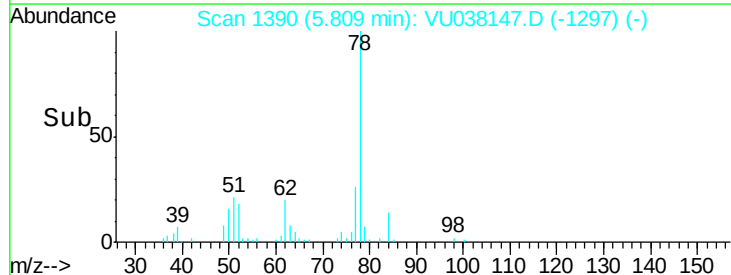
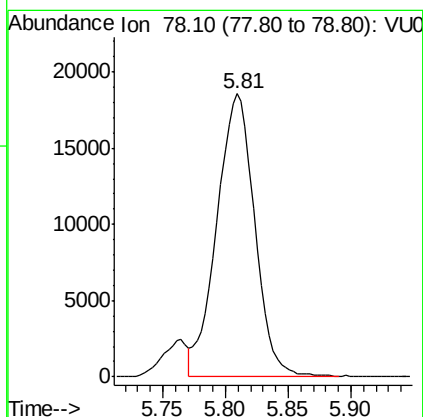
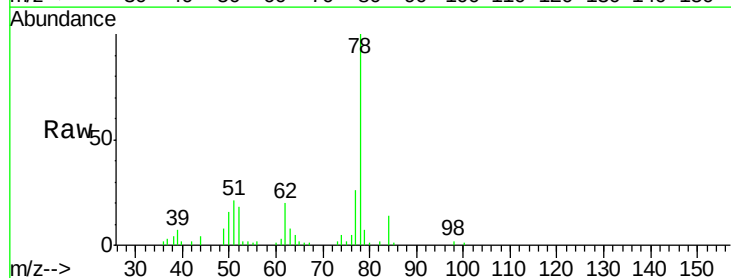
#30
Cyclohexane
Concen: 0.162 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU038147.D
Acq: 13 May 2020 16:40

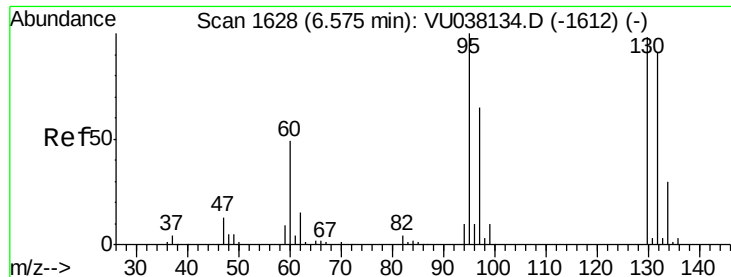
Instrument :
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ClientSampleId :
BFX13

Tot Ion: 56 Resp: 7789
Ion Ratio Lower Upper
56 100
69 35.1 24.2 36.4
84 97.0 68.5 102.7



#33
Benzene
Concen: 0.344 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU038147.D
Acq: 13 May 2020 16:40
Tgt Ion: 78 Resp: 39104





#34

Trichloroethene

Concen: 0.380 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

BFX13

Tot Ion: 95 Resp: 10804

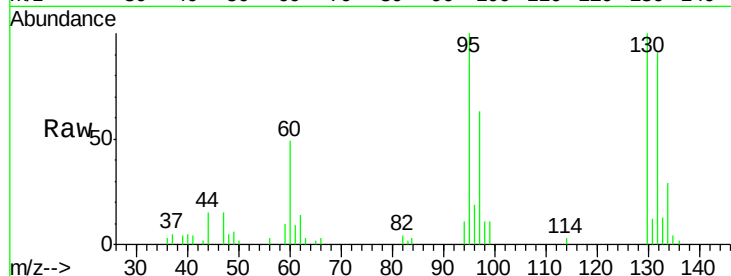
Ion Ratio Lower Upper

95 100

97 63.4 44.9 83.3

132 91.4 63.3 117.5

130 99.9 65.7 122.1

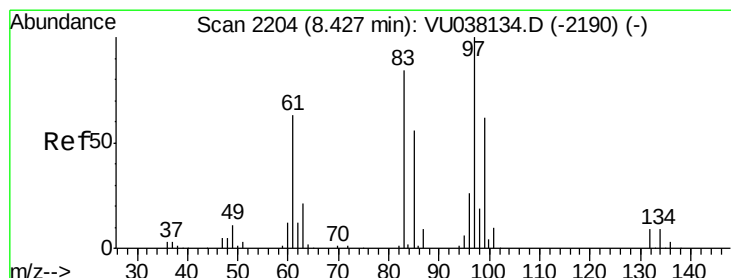
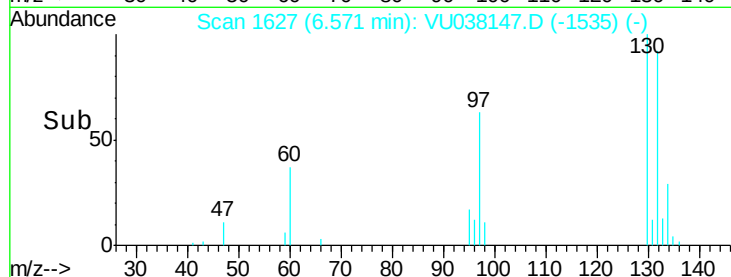
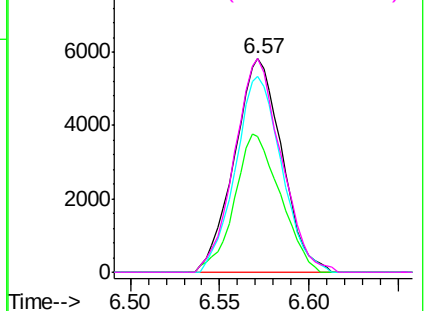


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#45

1,1,2-Trichloroethane

Concen: 0.413 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Tgt Ion: 97 Resp: 8867

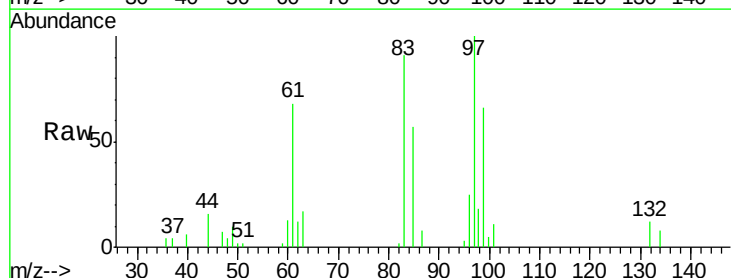
Ion Ratio Lower Upper

97 100

99 65.7 44.0 81.6

83 91.0 59.6 110.8

85 56.7 41.3 76.7

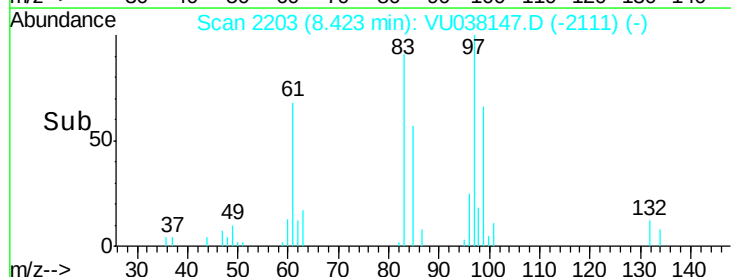
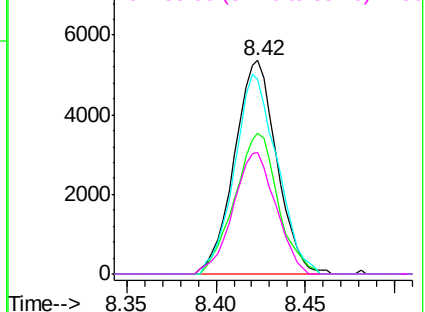


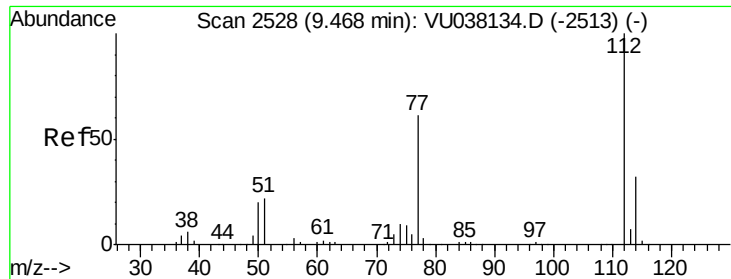
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0





#51

Chlorobenzene

Concen: 0.971 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

BFX13

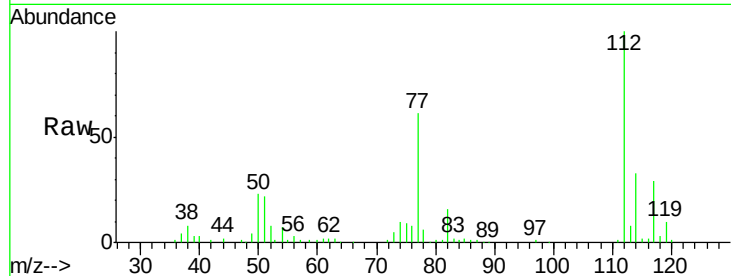
Tot Ion:112 Resp: 72346

Ion Ratio Lower Upper

112 100

114 32.8 22.5 41.7

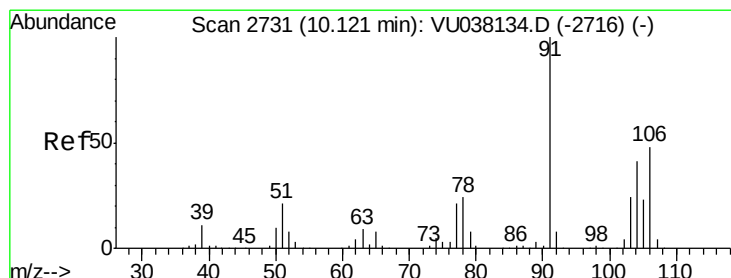
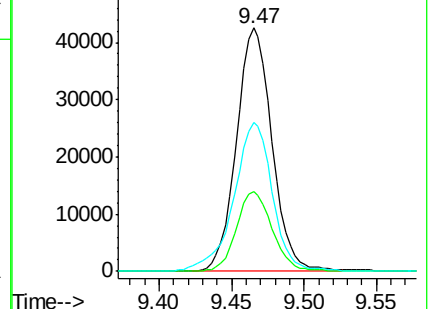
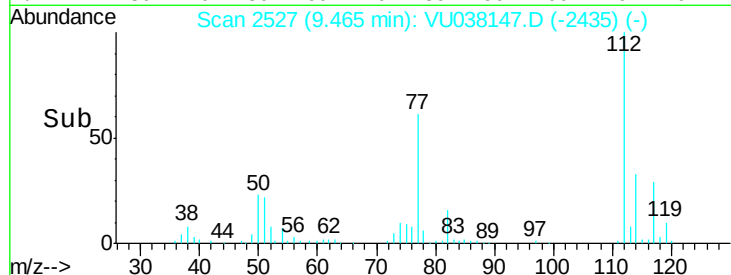
77 60.9 49.9 74.9



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU



#54

o-Xylene

Concen: 0.135 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU038147.D

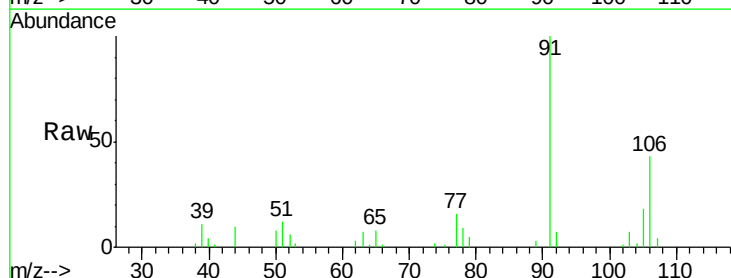
Acq: 13 May 2020 16:40

Tgt Ion:106 Resp: 6490

Ion Ratio Lower Upper

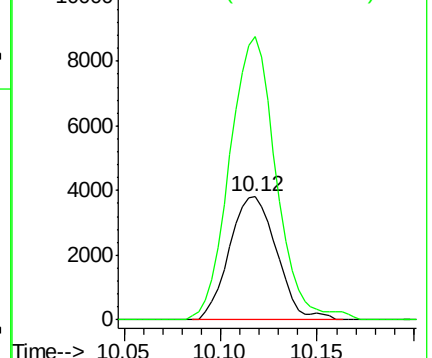
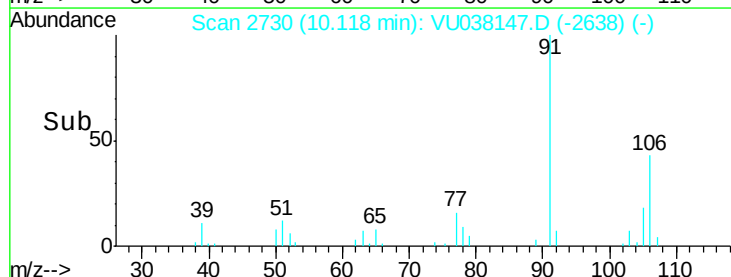
106 100

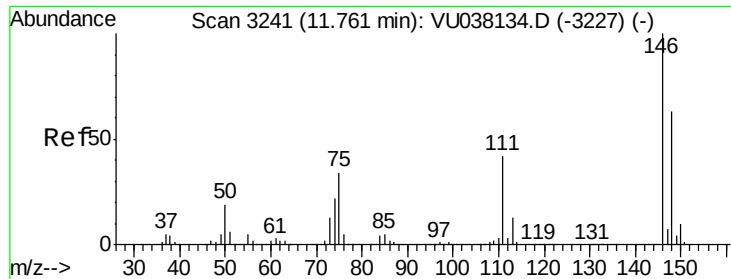
91 230.6 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU

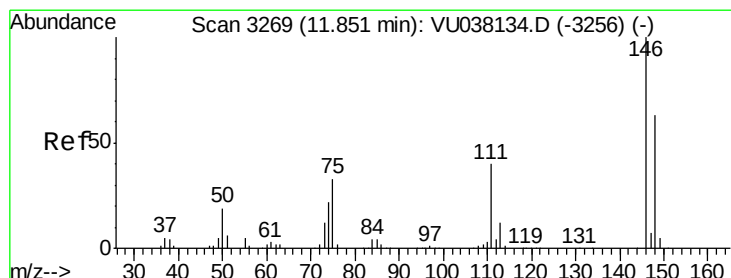
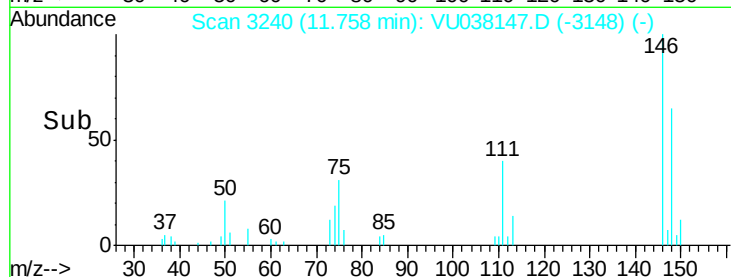
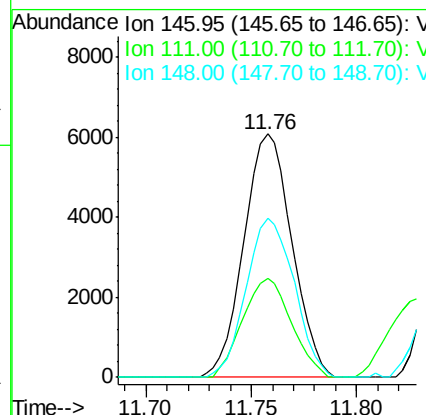
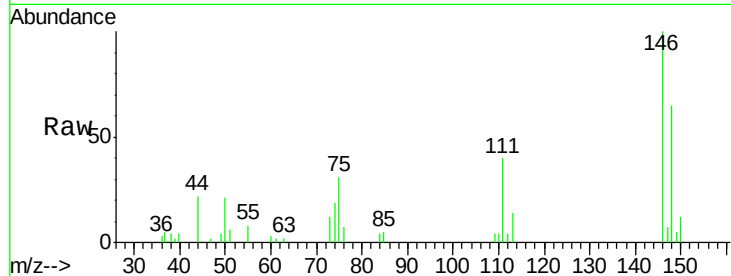




#62
 1,3-Dichlorobenzene
 Concen: 0.171 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

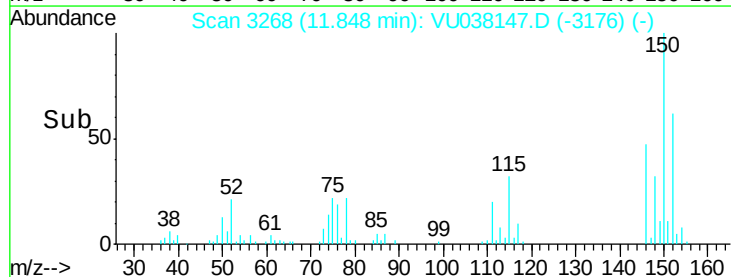
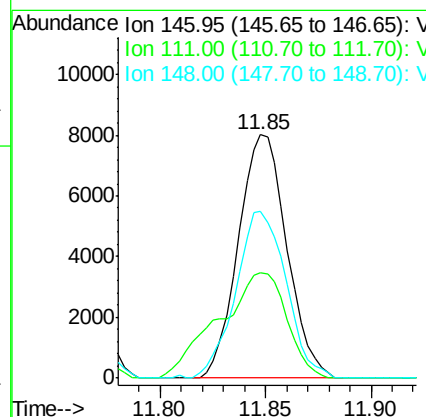
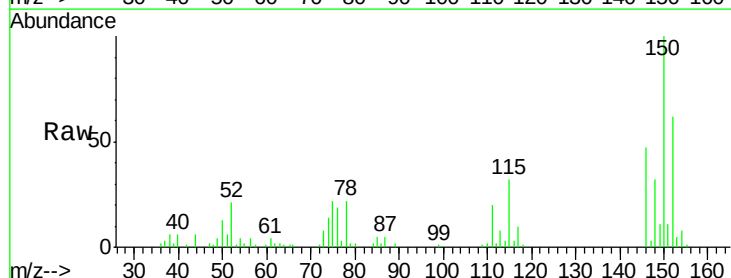
Instrument :
 MSVOA_U
 ClientSampleId :
 BFX13

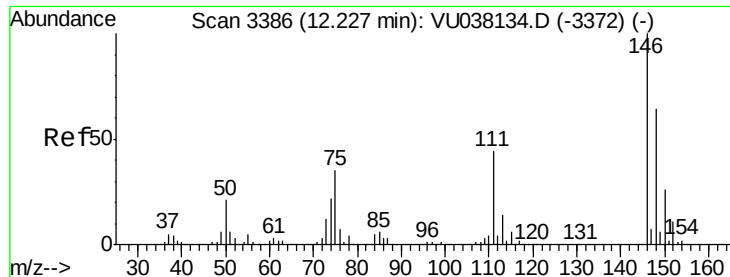
Tot Ion:146 Resp: 9641
 Ion Ratio Lower Upper
 146 100
 111 40.5 28.6 53.2
 148 65.4 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 0.224 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038147.D
 Acq: 13 May 2020 16:40

Tgt Ion:146 Resp: 12779
 Ion Ratio Lower Upper
 146 100
 111 43.2 27.2 50.6
 148 68.6 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 0.115 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

BFX13

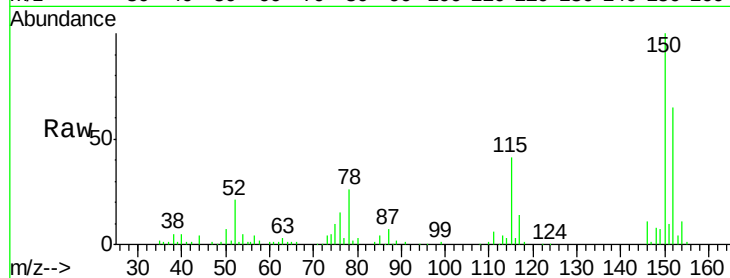
Tot Ion:146 Resp: 6213

Ion Ratio Lower Upper

146 100

111 53.0 35.3 52.9#

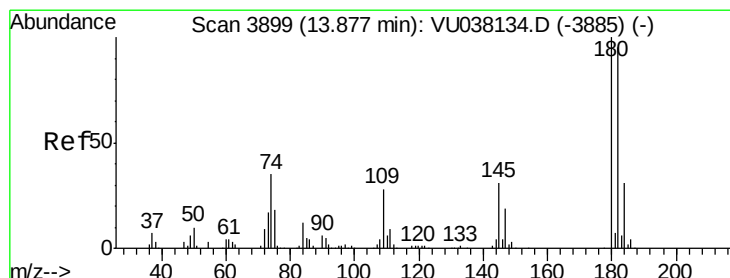
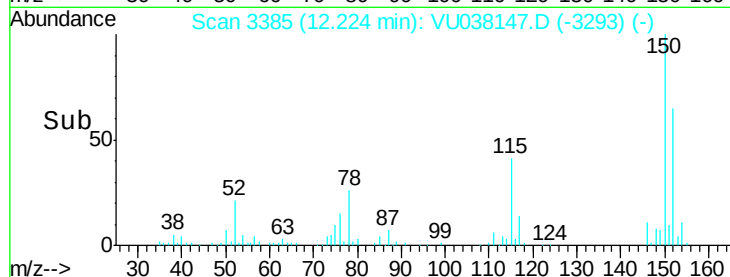
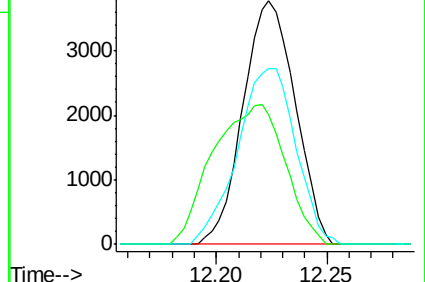
148 72.4 51.0 76.4



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



#68

1,2,4-trichlorobenzene

Concen: 0.216 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. -0.01 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

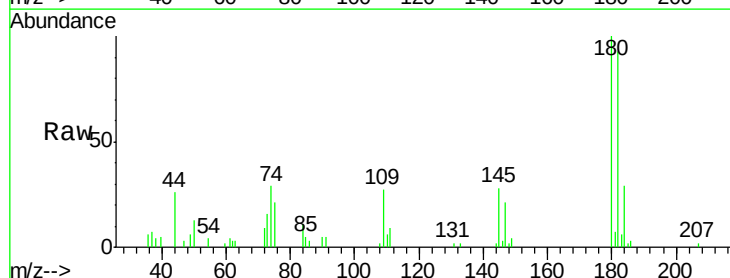
Tgt Ion:180 Resp: 7986

Ion Ratio Lower Upper

180 100

182 98.8 75.0 112.6

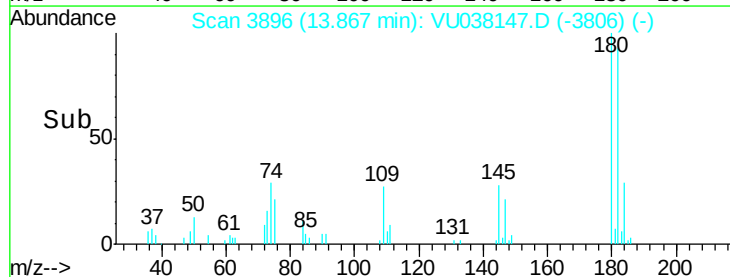
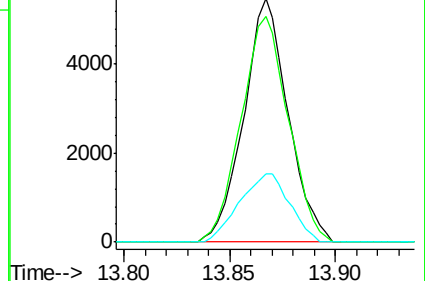
145 31.5 24.8 37.2

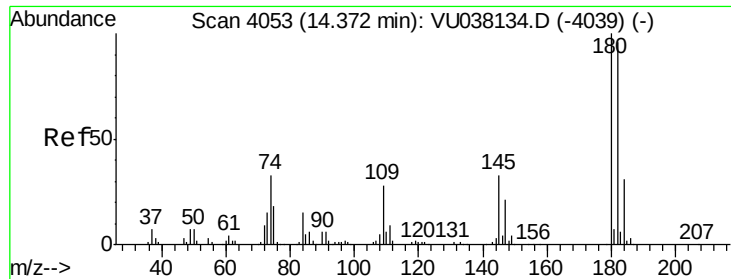


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#70

1,2,3-Trichlorobenzene

Concen: 0.167 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VU038147.D

Acq: 13 May 2020 16:40

Instrument :

MSVOA_U

ClientSampleId :

BFX13

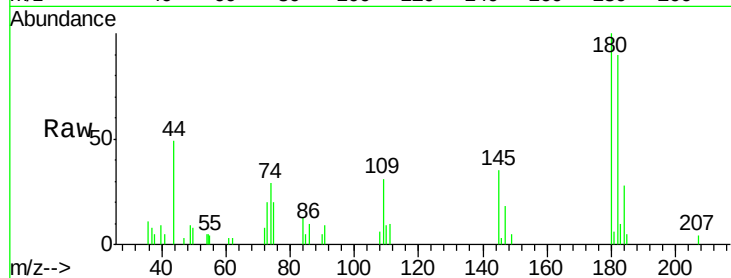
Tot Ion:180 Resp: 5740

Ion Ratio Lower Upper

180 100

182 100.7 76.3 114.5

145 34.7 26.1 39.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

