

Data File : VU030234.D
Acq On : 20 Mar 2019 19:46
Operator : JC/SP
Sample : K1967-18
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0967

Quant Time: Mar 22 01:31:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	541184	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	536799	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.54	152	105	50.00	ug/L	0.06

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	153396	41.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.84%
7) Chloroethane-d5	1.68	69	129115	44.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.24%
11) 1,1-Dichloroethene-d2	2.27	63	213271	31.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	63.90%
21) 2-Butanone-d5	4.17	46	254686	93.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.81%
24) Chloroform-d	4.65	84	316949	47.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.38%
26) 1,2-Dichloroethane-d4	5.31	65	180852	47.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.42%
32) Benzene-d6	5.34	84	649791	45.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.88%
36) 1,2-Dichloropropane-d6	6.33	67	204167	46.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.30%
41) Toluene-d8	7.56	98	585492	44.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.04%
43) trans-1,3-Dichloropropene-	7.85	79	95386	44.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.50%
47) 2-Hexanone-d5	8.31	63	212460	93.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.60%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	311749	46.43	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.86%
64) 1,2-Dichlorobenzene-d4	11.54	152	105	49.81	ug/L	-0.31
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.62%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2390	0.657	ug/L #	21
12) 1,1-Dichloroethene	2.28	96	3623	1.003	ug/L #	1
13) Acetone	2.32	43	13839	4.878	ug/L	94
25) Chloroform	4.67	83	257172	37.718	ug/L	98
27) 1,2-Dichloroethane	5.39	62	54005	11.175	ug/L #	72
31) Carbon tetrachloride	5.13	117	20110	3.927	ug/L	98
33) Benzene	5.39	78	7833775	505.817	ug/L	100
39) cis-1,3-Dichloropropene	7.23	75	4955	0.779	ug/L #	70
44) trans-1,3-Dichloropropene	7.85	75	3583	0.651	ug/L	97
46) Tetrachloroethene	8.22	164	1821	0.528	ug/L	95
48) 2-Hexanone	8.31	43	21404	4.731	ug/L #	66
51) Chlorobenzene	9.12	112	14227188	1275.693	ug/L	94
61) Bromoform	9.96	173	1304	961.688	ug/L #	79
62) 1,3-Dichlorobenzene	11.41	146	5272426	1573863.814	ug/L	99
63) 1,4-Dichlorobenzene	11.41	146	5272426	1517313.391	ug/L	98
65) 1,2-Dichlorobenzene	11.81	146	13	3.798	ug/L #	91
66) 1,2-Dibromo-3-chloropropan	12.63	75	11271	19696.366	ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032019\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
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Response via : Initial Calibration

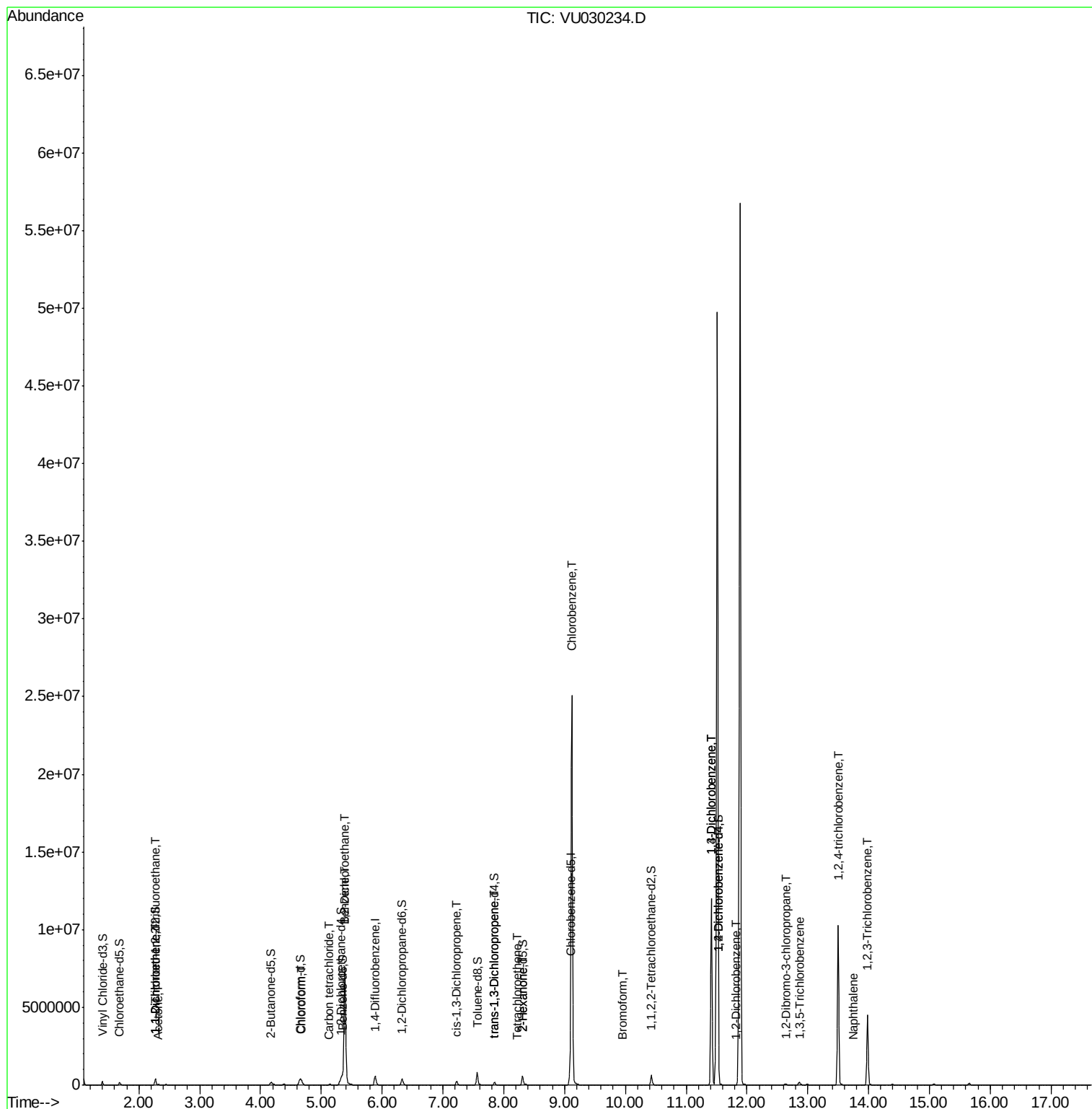
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	12.88	180	2429	927.761	ug/L	94
68) 1,2,4-trichlorobenzene	13.50	180	3362184	1452181.233	ug/L	99
69) Naphthalene	13.74	128	4517	614.931	ug/L #	88
70) 1,2,3-Trichlorobenzene	13.98	180	1471084	608939.660	ug/L	99

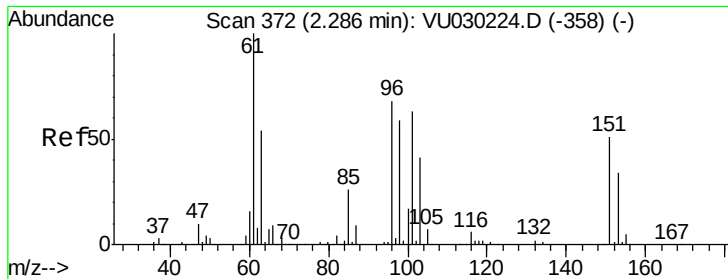
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.657 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

C0967

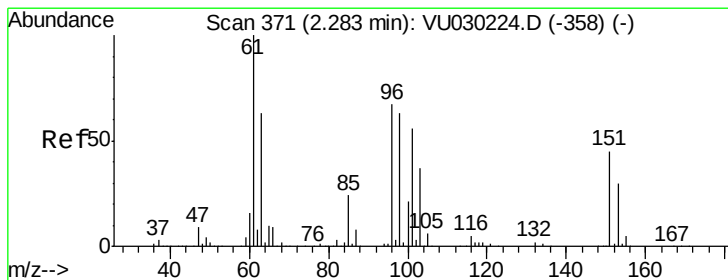
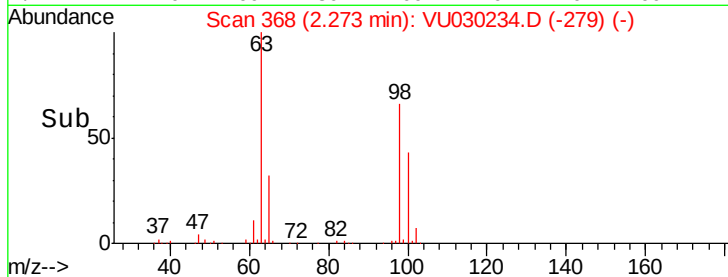
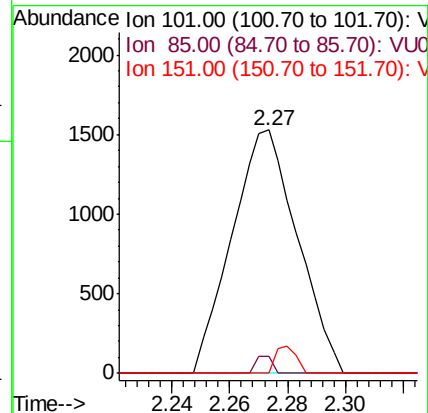
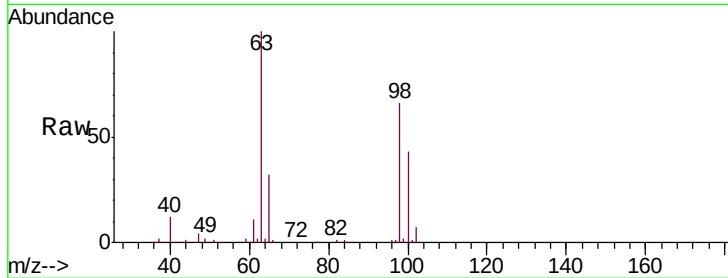
Tgt Ion: 101 Resp: 2390

Ion Ratio Lower Upper

101 100

85 1.8 32.5 48.7#

151 3.6 64.7 97.1#



#12

1,1-Dichloroethene

Concen: 1.003 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

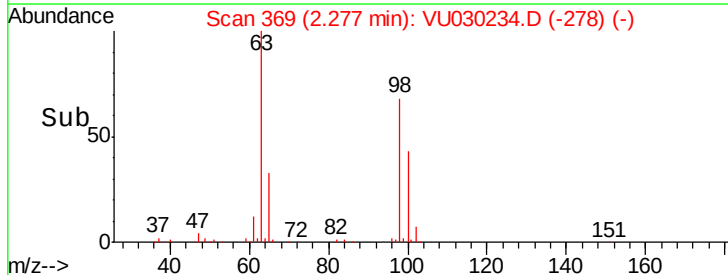
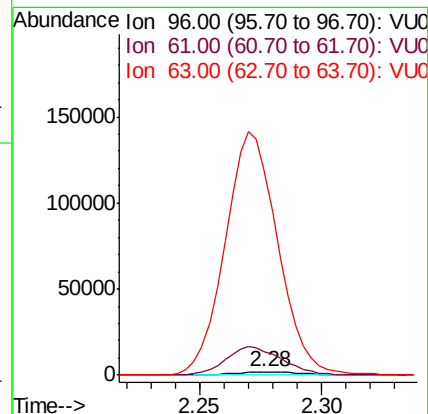
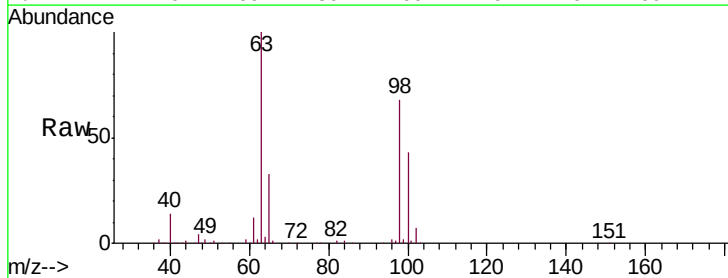
Tgt Ion: 96 Resp: 3623

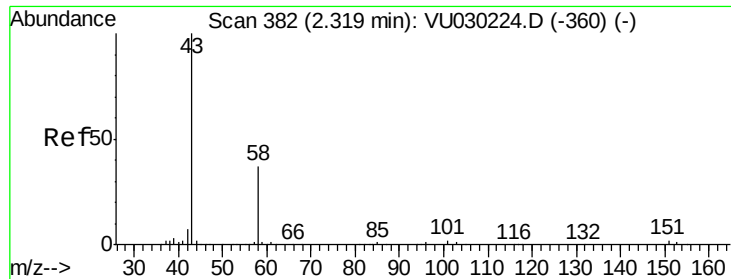
Ion Ratio Lower Upper

96 100

61 667.9 104.6 194.2#

63 5768.7 77.2 143.4#





#13

Acetone

Concen: 4.878 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

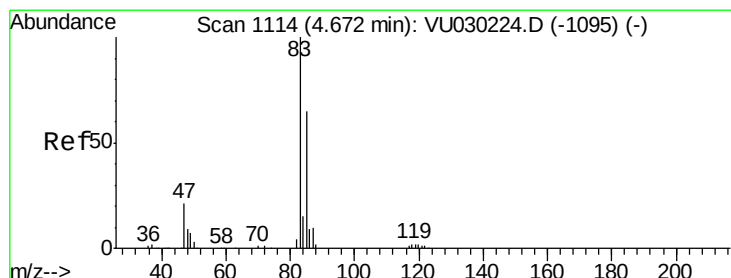
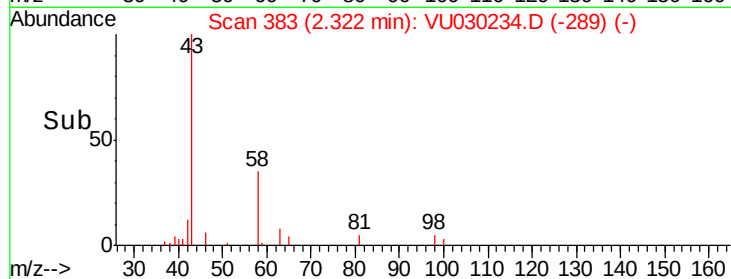
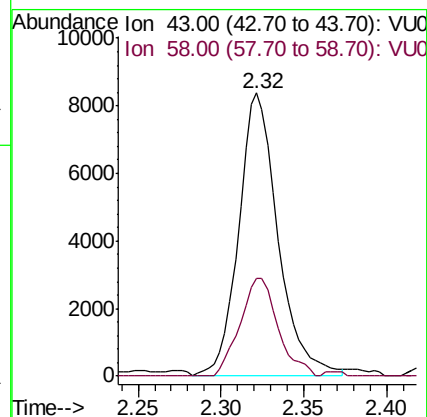
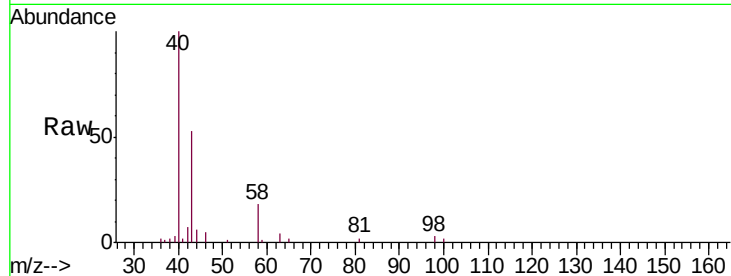
C0967

Tgt Ion: 43 Resp: 13839

Ion Ratio Lower Upper

43 100

58 33.2 0.0 73.4



#25

Chloroform

Concen: 37.718 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VU030234.D

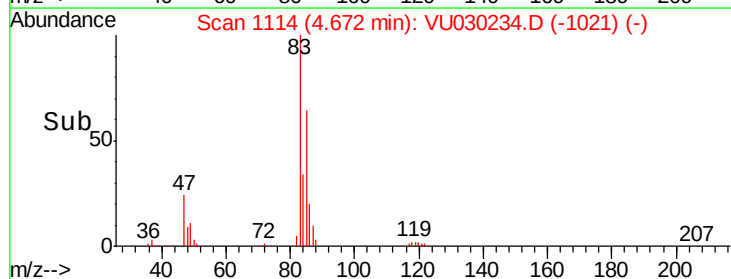
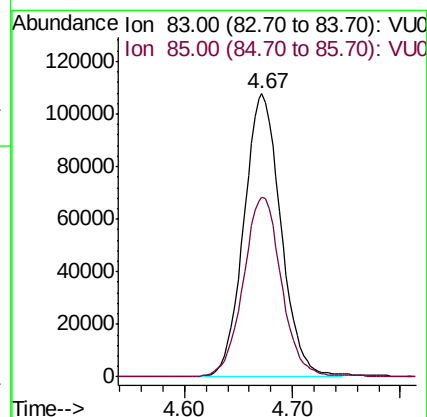
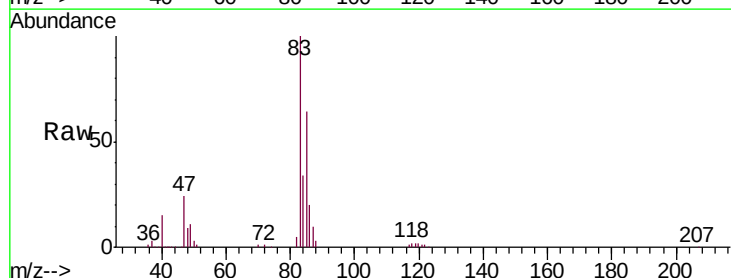
Acq: 20 Mar 2019 19:46

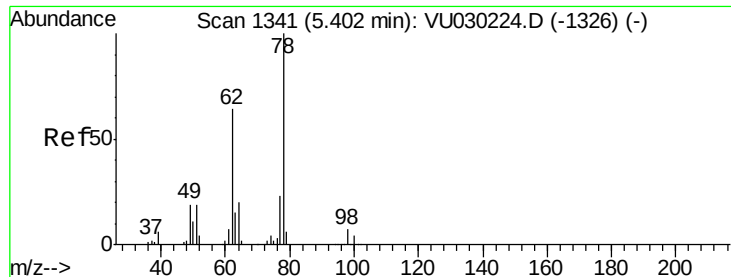
Tgt Ion: 83 Resp: 257172

Ion Ratio Lower Upper

83 100

85 63.7 45.8 85.2

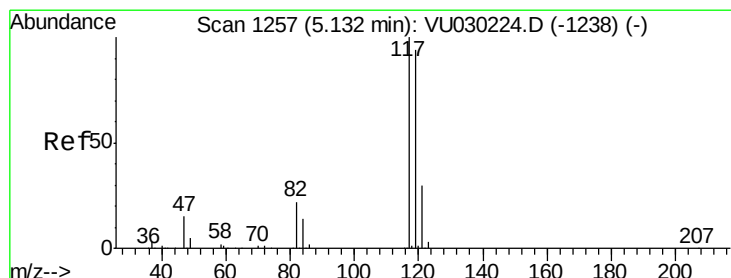
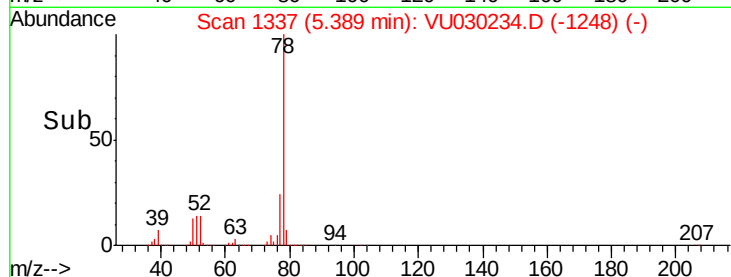
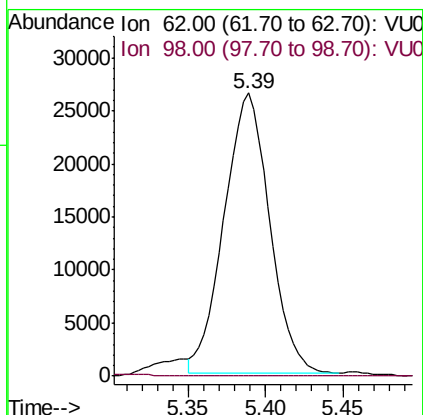
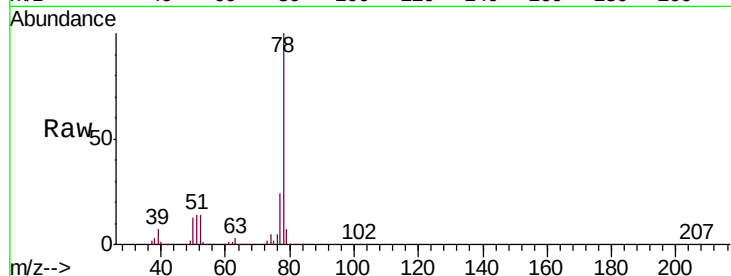




#27
 1,2-Dichloroethane
 Concen: 11.175 ug/L
 RT: 5.39 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VU030234.D
 Acq: 20 Mar 2019 19:46

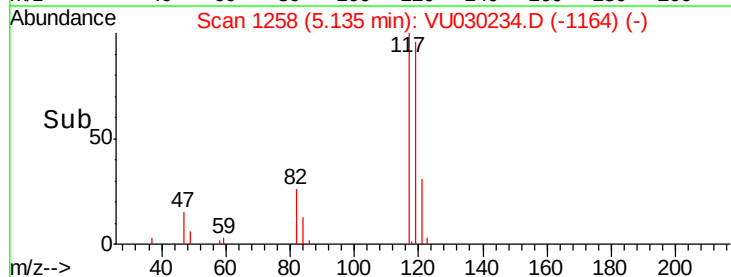
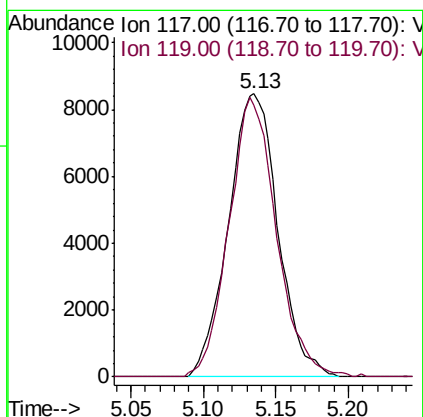
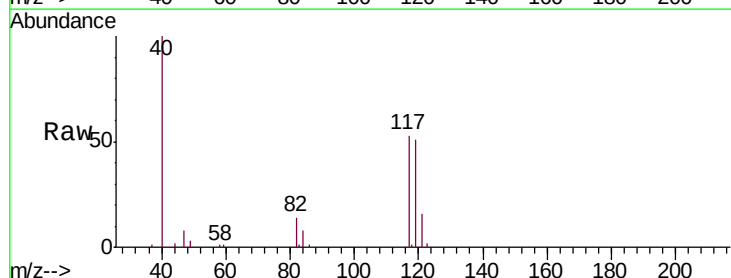
Instrument :
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 ClientSampleId :
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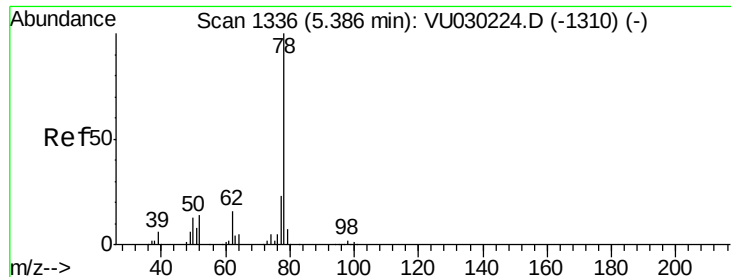
Tgt Ion: 62 Resp: 54005
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.6 12.8#



#31
 Carbon tetrachloride
 Concen: 3.927 ug/L
 RT: 5.13 min Scan# 1258
 Delta R.T. 0.00 min
 Lab File: VU030234.D
 Acq: 20 Mar 2019 19:46

Tgt Ion: 117 Resp: 20110
 Ion Ratio Lower Upper
 117 100
 119 94.1 77.1 115.7





#33

Benzene

Concen: 505.817 ug/L

RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

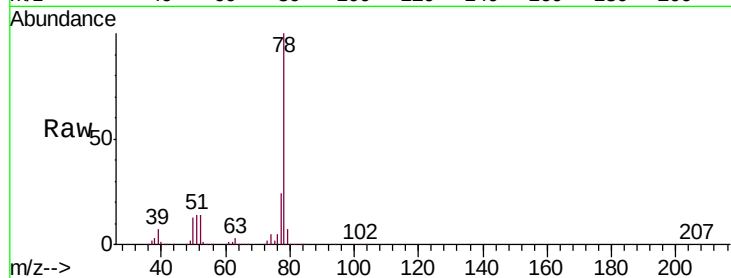
Instrument :

MSVOA_U

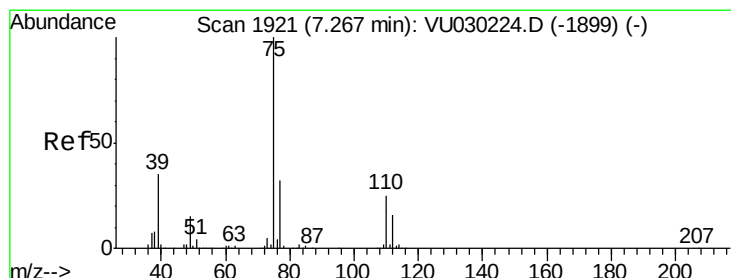
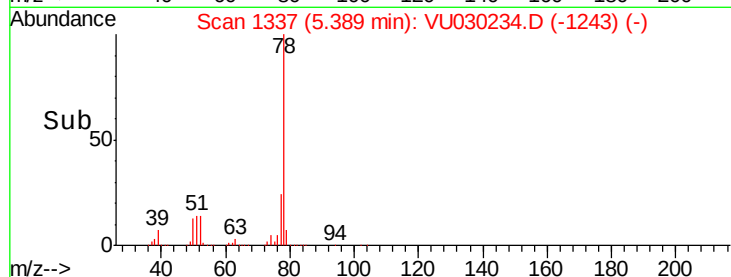
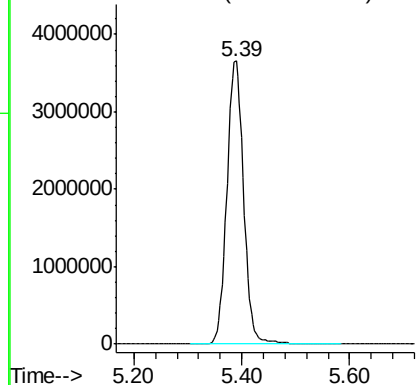
ClientSampleId :

C0967

Tgt Ion: 78 Resp: 7833775



Abundance Ion 78.00 (77.70 to 78.70): VU0



#39

cis-1,3-Dichloropropene

Concen: 0.779 ug/L

RT: 7.23 min Scan# 1909

Delta R.T. -0.04 min

Lab File: VU030234.D

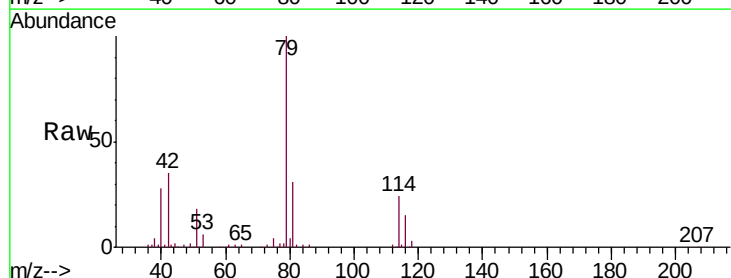
Acq: 20 Mar 2019 19:46

Tgt Ion: 75 Resp: 4955

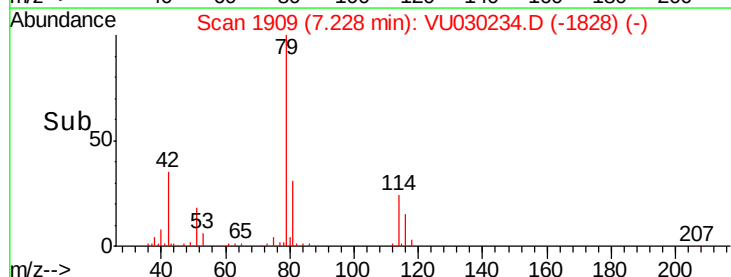
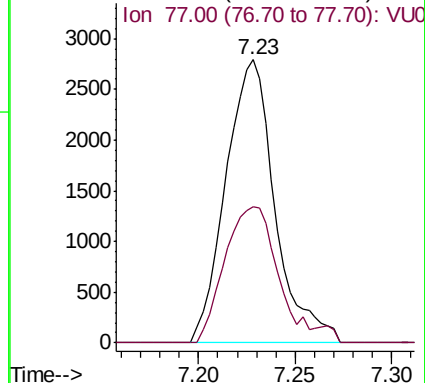
Ion Ratio Lower Upper

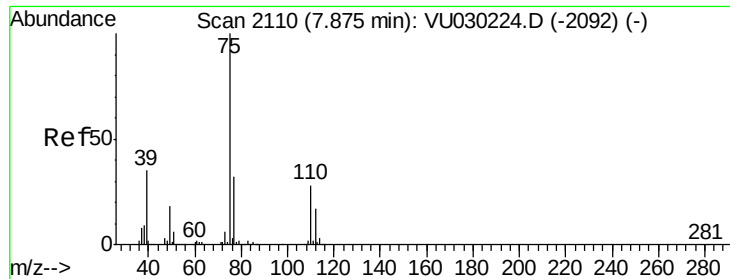
75 100

77 48.0 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.651 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

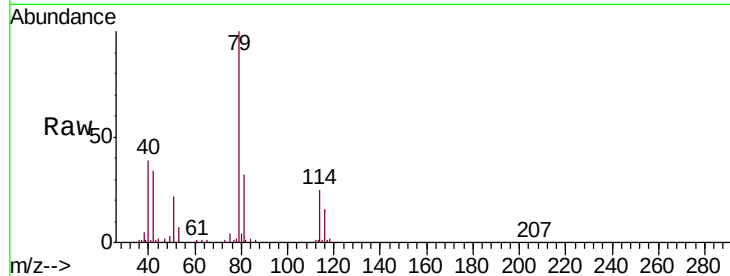
C0967

Tgt Ion: 75 Resp: 3583

Ion Ratio Lower Upper

75 100

77 34.0 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU030224.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU030224.D (-2092) (-)

7.85

2500

2000

1500

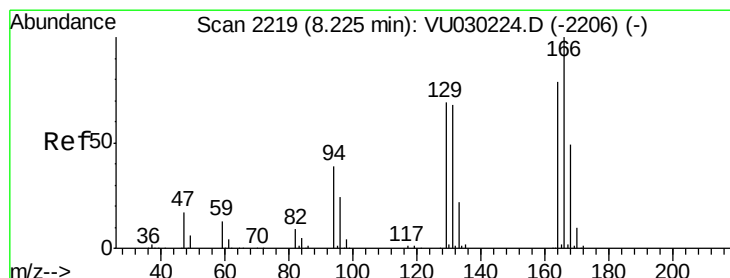
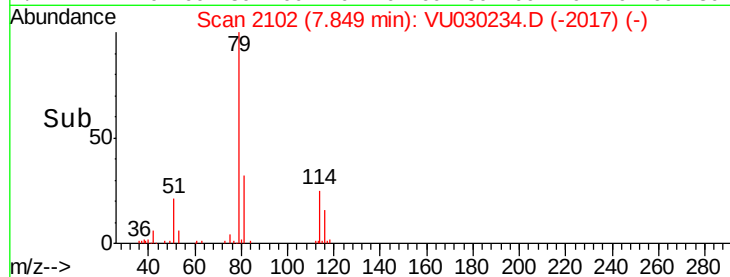
1000

500

0

7.80 7.85 7.90

Time-->



#46

Tetrachloroethene

Concen: 0.528 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Tgt Ion: 164 Resp: 1821

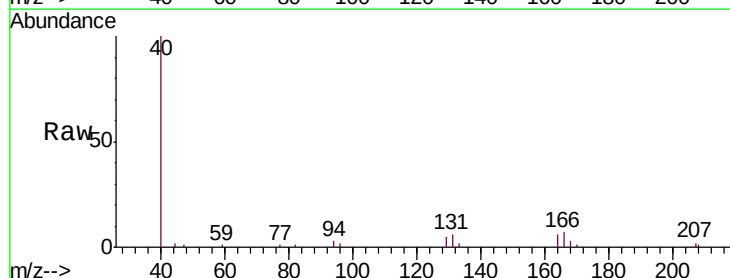
Ion Ratio Lower Upper

164 100

129 88.6 64.4 119.6

131 98.0 63.2 117.4

166 122.2 89.5 166.1



Abundance Ion 164.00 (163.70 to 164.70): VU030224.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU030224.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU030224.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU030224.D (-2206) (-)

8.22

2000

1500

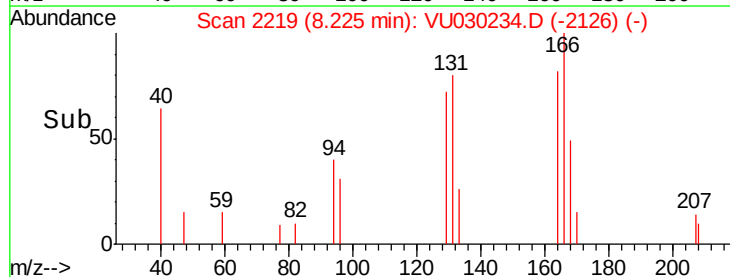
1000

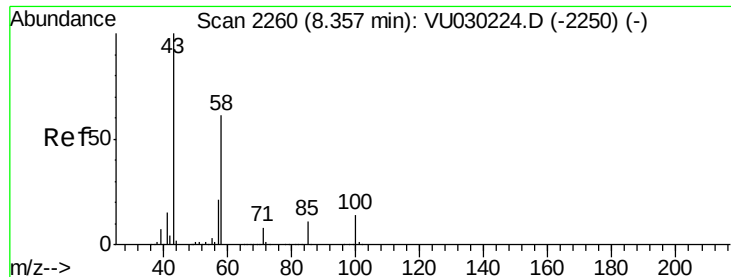
500

0

8.20 8.25

Time-->

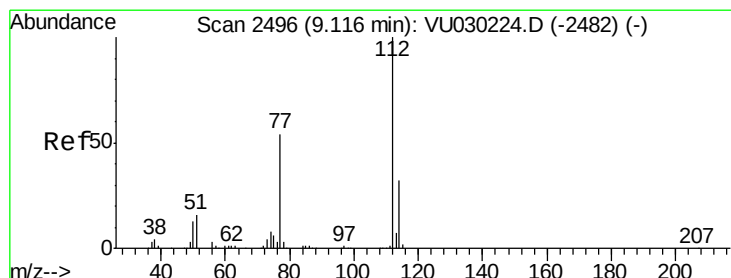
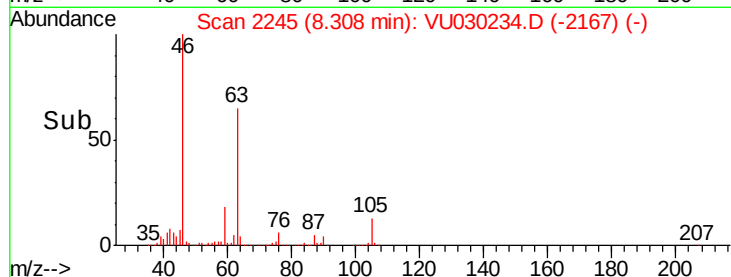
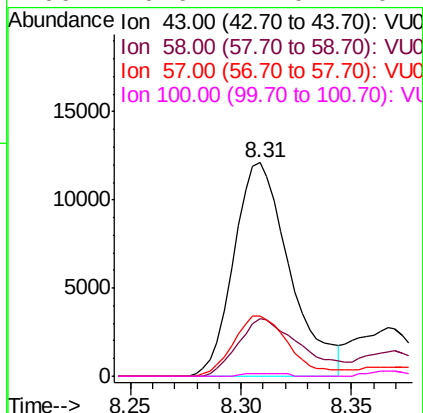
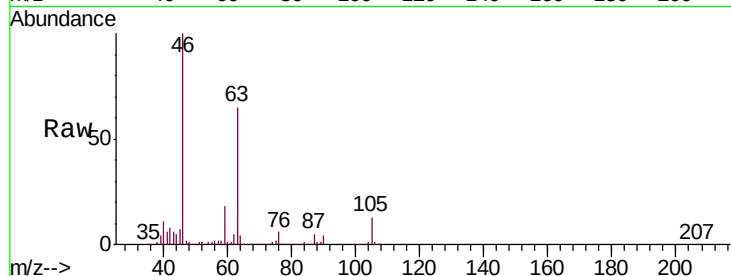




#48
2-Hexanone
Concen: 4.731 ug/L
RT: 8.31 min Scan# 2245
Delta R.T. -0.05 min
Lab File: VU030234.D
Acq: 20 Mar 2019 19:46

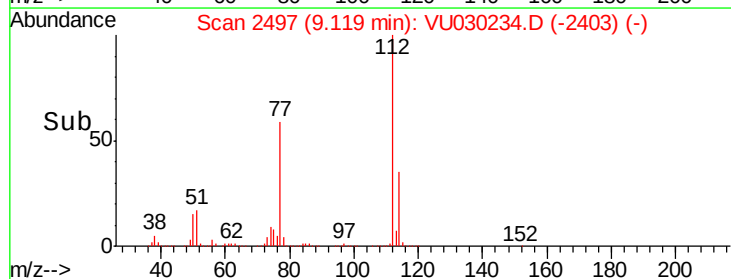
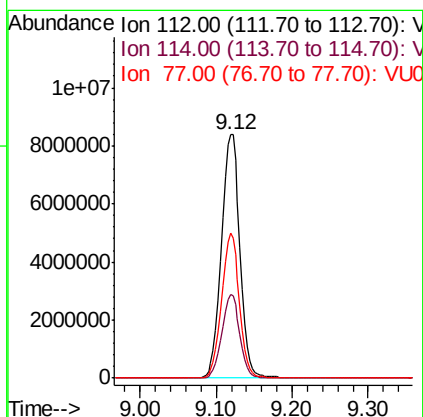
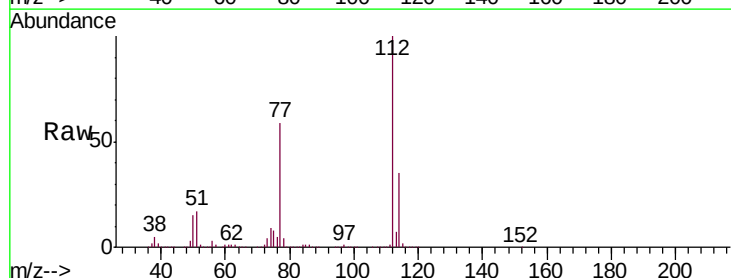
Instrument :
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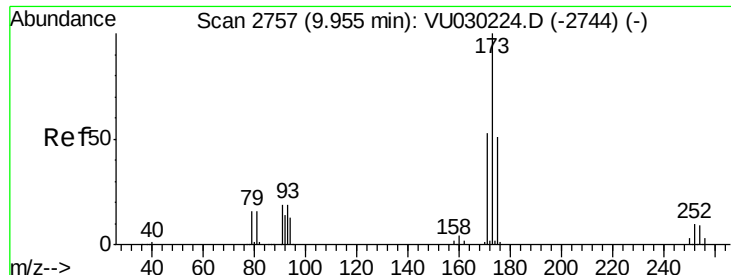
Tgt Ion: 43 Resp: 21404
Ion Ratio Lower Upper
43 100
58 30.6 49.3 73.9#
57 28.3 17.0 25.4#
100 0.6 11.0 16.4#



#51
Chlorobenzene
Concen: 1275.693 ug/L
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU030234.D
Acq: 20 Mar 2019 19:46

Tgt Ion: 112 Resp: 14227188
Ion Ratio Lower Upper
112 100
114 34.5 22.5 41.7
77 59.4 43.4 65.0





#61

Bromoform

Concen: 961.688 ug/L

RT: 9.96 min Scan# 2759

Delta R.T. 0.01 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

C0967

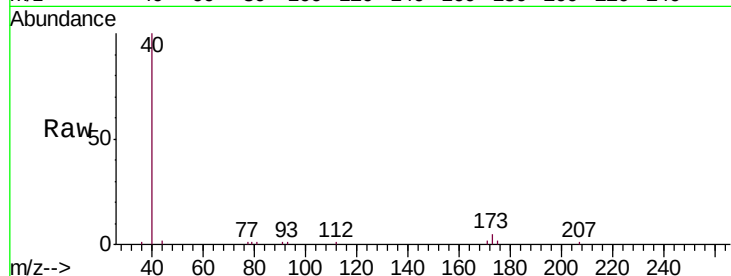
Tgt Ion:173 Resp: 1304

Ion Ratio Lower Upper

173 100

175 35.3 38.9 58.3#

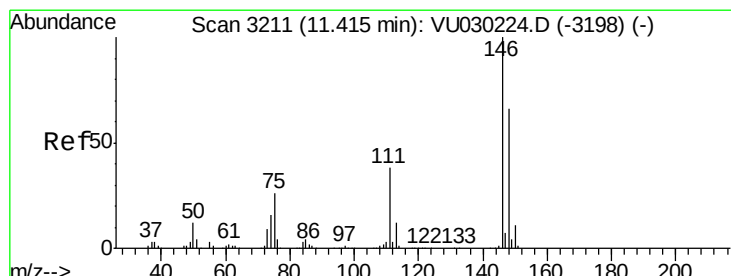
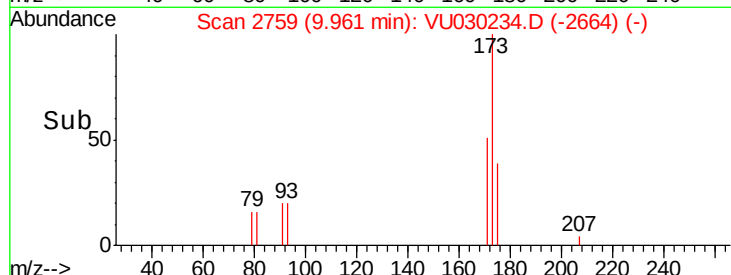
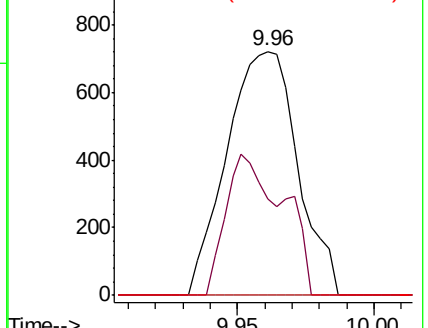
254 0.0 7.4 11.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 1573863.814 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

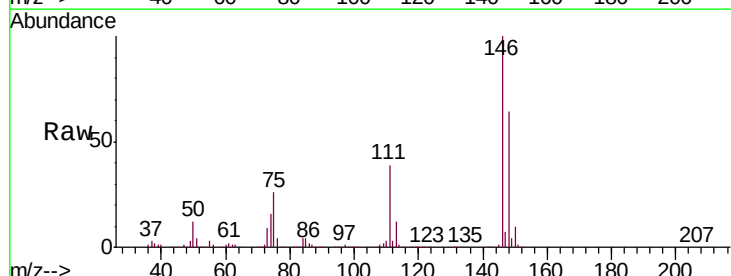
Tgt Ion:146 Resp: 5272426

Ion Ratio Lower Upper

146 100

111 39.1 27.2 50.4

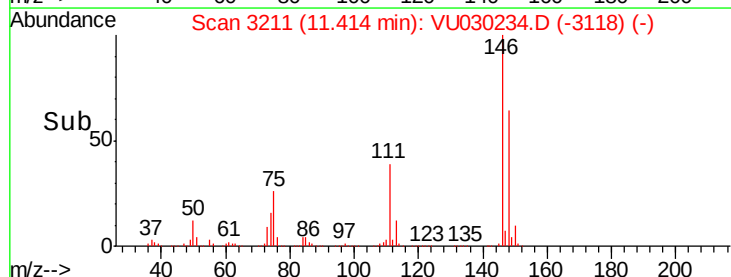
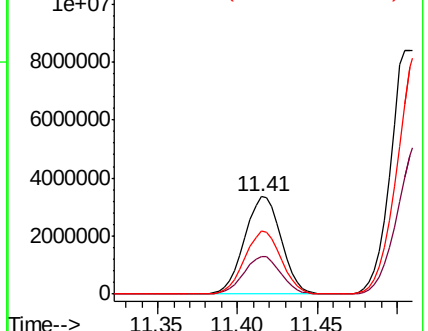
148 64.4 44.4 82.5

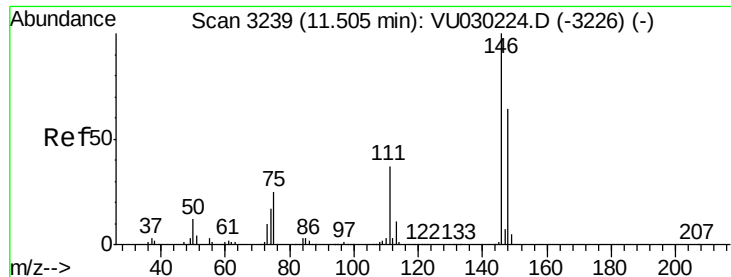


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 1517313.391 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.09 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Instrument :

MSVOA_U

ClientSampled :

C0967

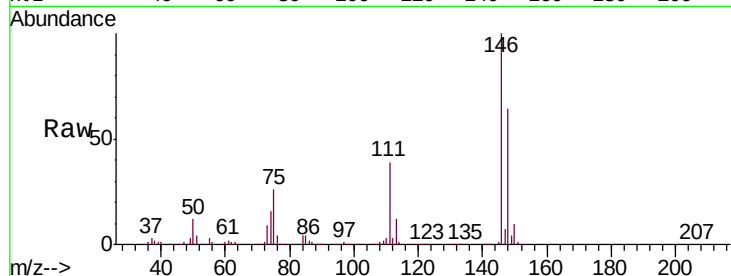
Tgt Ion:146 Resp: 5272426

Ion Ratio Lower Upper

146 100

111 39.1 25.3 46.9

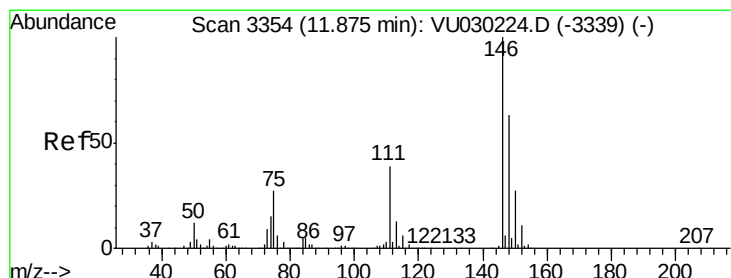
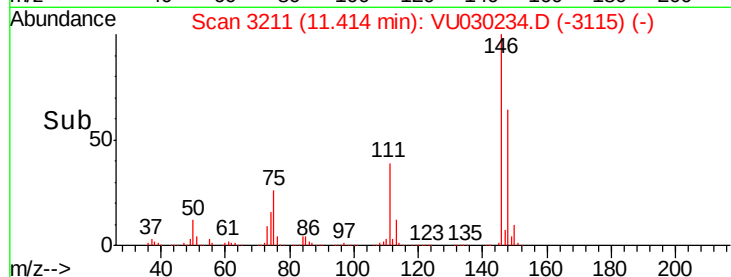
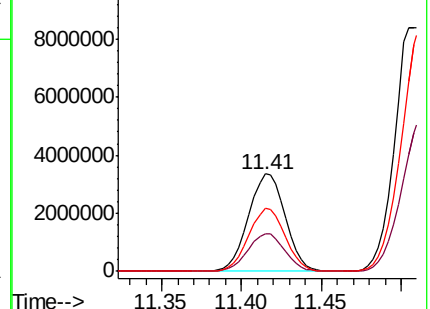
148 64.4 44.7 82.9



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



#65

1,2-Dichlorobenzene

Concen: 3.798 ug/L

RT: 11.81 min Scan# 3335

Delta R.T. -0.06 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

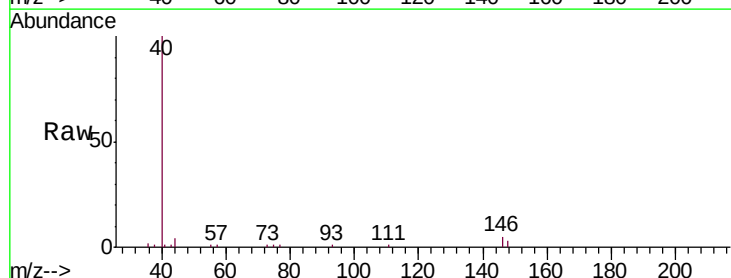
Tgt Ion:146 Resp: 13

Ion Ratio Lower Upper

146 100

111 27.0 31.7 47.5#

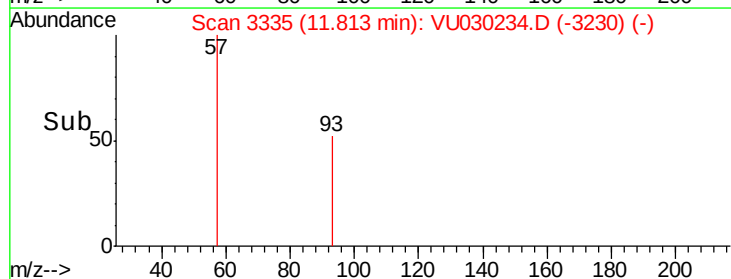
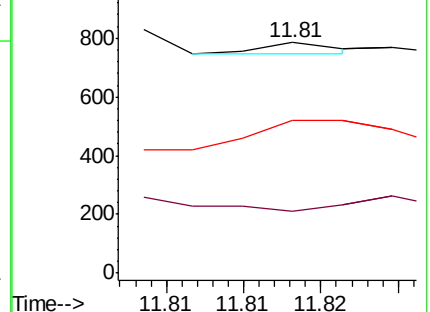
148 66.1 52.0 78.0

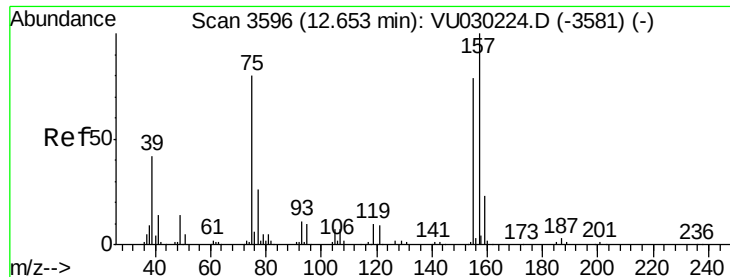


Abundance Ion 146.00 (145.70 to 146.70): V

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: 19696.366 ug/L

RT: 12.63 min Scan# 3589

Delta R.T. -0.02 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Instrument :

MSVOA_U

ClientSampleId :

C0967

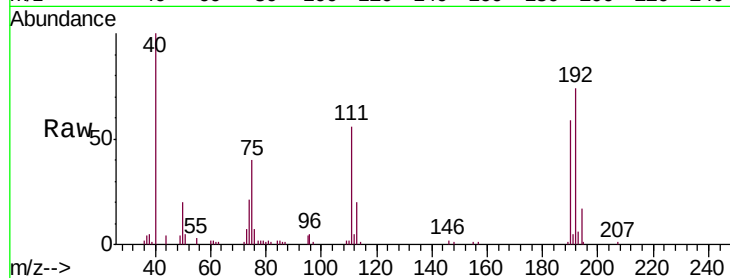
Tgt Ion: 75 Resp: 11271

Ion Ratio Lower Upper

75 100

155 2.4 80.7 121.1#

157 1.9 100.8 151.2#

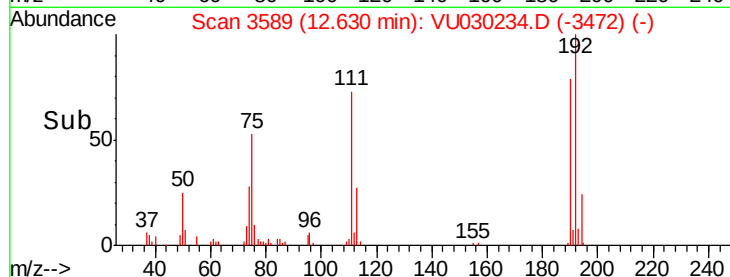


Abundance Ion 75.00 (74.70 to 75.70): VU030234.D (-3472) (-)

Ion 155.00 (154.70 to 155.70): VU030234.D (-3472) (-)

Ion 157.00 (156.70 to 157.70): VU030234.D (-3472) (-)

Time-->

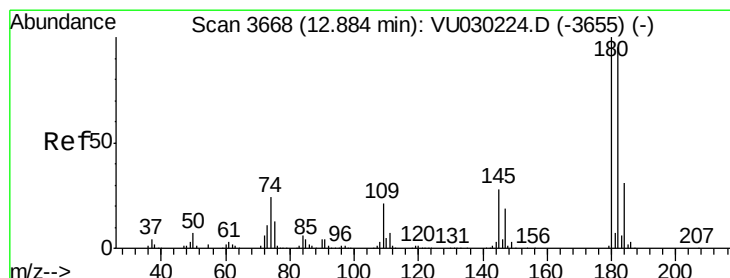


Abundance Ion 75.00 (74.70 to 75.70): VU030234.D (-3472) (-)

Ion 155.00 (154.70 to 155.70): VU030234.D (-3472) (-)

Ion 157.00 (156.70 to 157.70): VU030234.D (-3472) (-)

Time-->



#67

1,3,5-Trichlorobenzene

Concen: 927.761 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. -0.00 min

Lab File: VU030234.D

Acq: 20 Mar 2019 19:46

Tgt Ion: 180 Resp: 2429

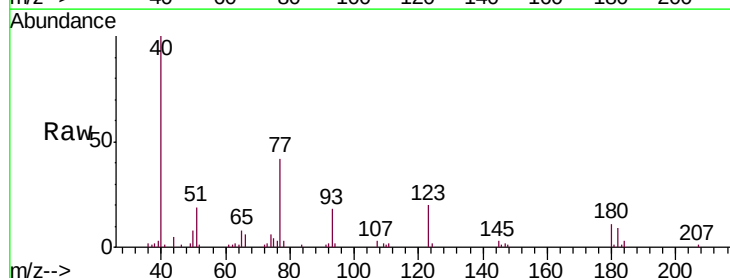
Ion Ratio Lower Upper

180 100

182 86.5 76.0 114.0

184 29.8 24.2 36.4

145 27.8 22.1 33.1



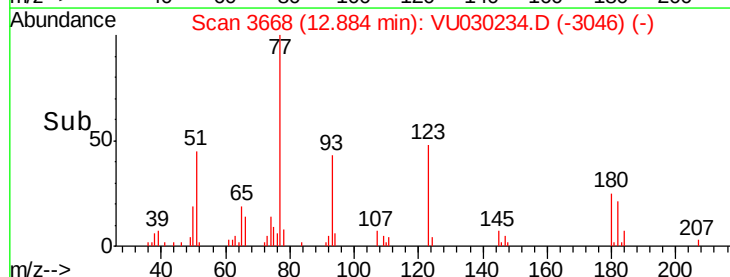
Abundance Ion 180.00 (179.70 to 180.70): VU030234.D (-3046) (-)

Ion 182.00 (181.70 to 182.70): VU030234.D (-3046) (-)

Ion 184.00 (183.70 to 184.70): VU030234.D (-3046) (-)

Ion 145.00 (144.70 to 145.70): VU030234.D (-3046) (-)

Time-->



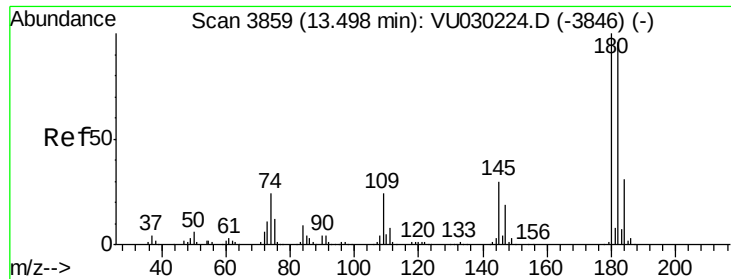
Abundance Ion 180.00 (179.70 to 180.70): VU030234.D (-3046) (-)

Ion 182.00 (181.70 to 182.70): VU030234.D (-3046) (-)

Ion 184.00 (183.70 to 184.70): VU030234.D (-3046) (-)

Ion 145.00 (144.70 to 145.70): VU030234.D (-3046) (-)

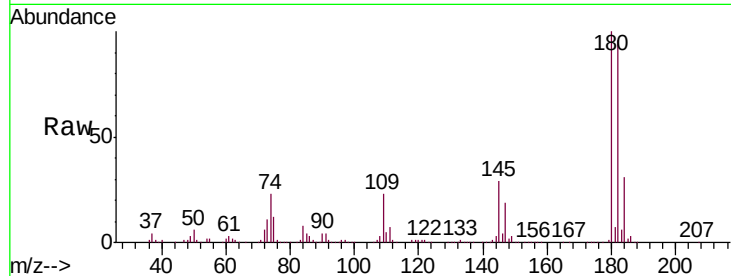
Time-->



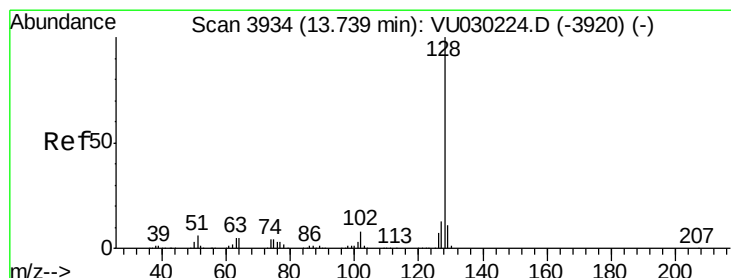
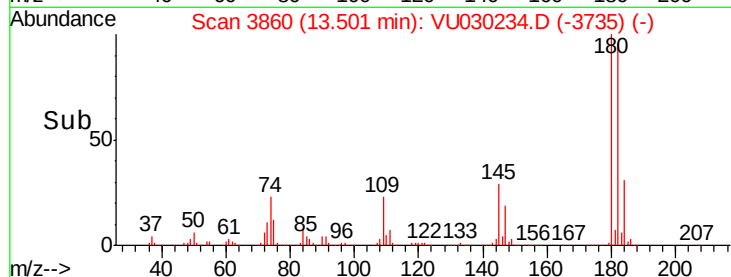
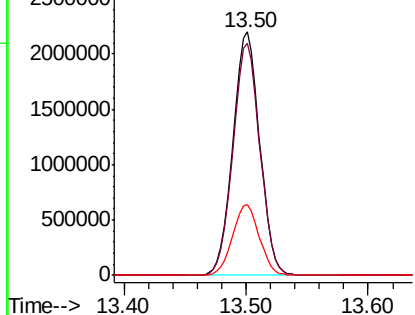
#68
 1,2,4-trichlorobenzene
 Concen: 1452181.233 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030234.D
 Acq: 20 Mar 2019 19:46

Instrument :
 MSVOA_U
 ClientSampled :
 C0967

Tgt Ion:180 Resp: 3362184
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.4 114.6
 145 29.1 22.7 34.1

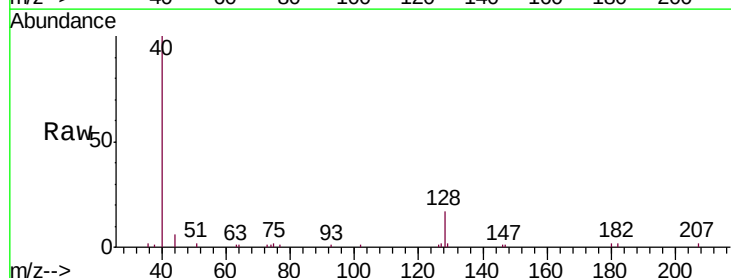


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

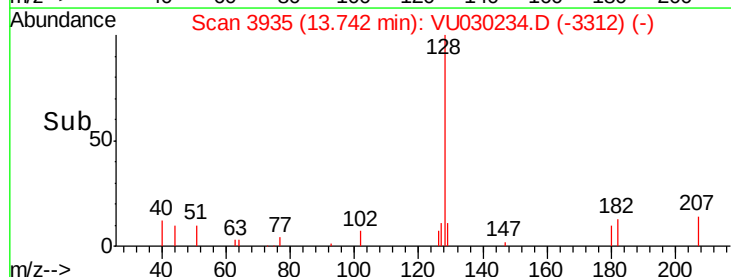
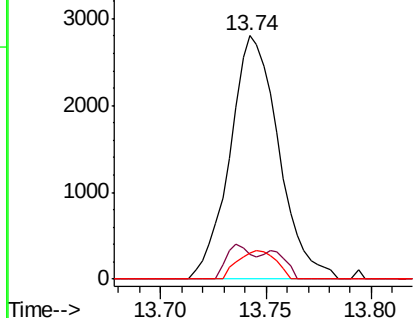


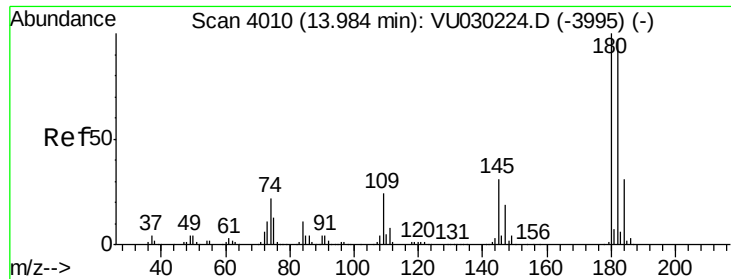
#69
 Naphthalene
 Concen: 614.931 ug/L
 RT: 13.74 min Scan# 3935
 Delta R.T. 0.00 min
 Lab File: VU030234.D
 Acq: 20 Mar 2019 19:46

Tgt Ion:128 Resp: 4517
 Ion Ratio Lower Upper
 128 100
 127 5.6 10.2 15.2#
 129 9.1 8.5 12.7



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: 608939.660 ug/L
 RT: 13.98 min Scan# 4010
 Delta R.T. -0.00 min
 Lab File: VU030234.D
 Acq: 20 Mar 2019 19:46

Instrument :
 MSVOA_U
 ClientSampleId :
 C0967

Tgt Ion:180 Resp: 1471084
 Ion Ratio Lower Upper
 180 100
 182 95.7 75.9 113.9
 145 30.9 24.1 36.1

