

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031920\
 Data File : VY002023.D
 Acq On : 19 Mar 2020 15:50
 Operator : SY/MD
 Sample : L1978-09
 Misc : 7.38G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 20 01:57:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

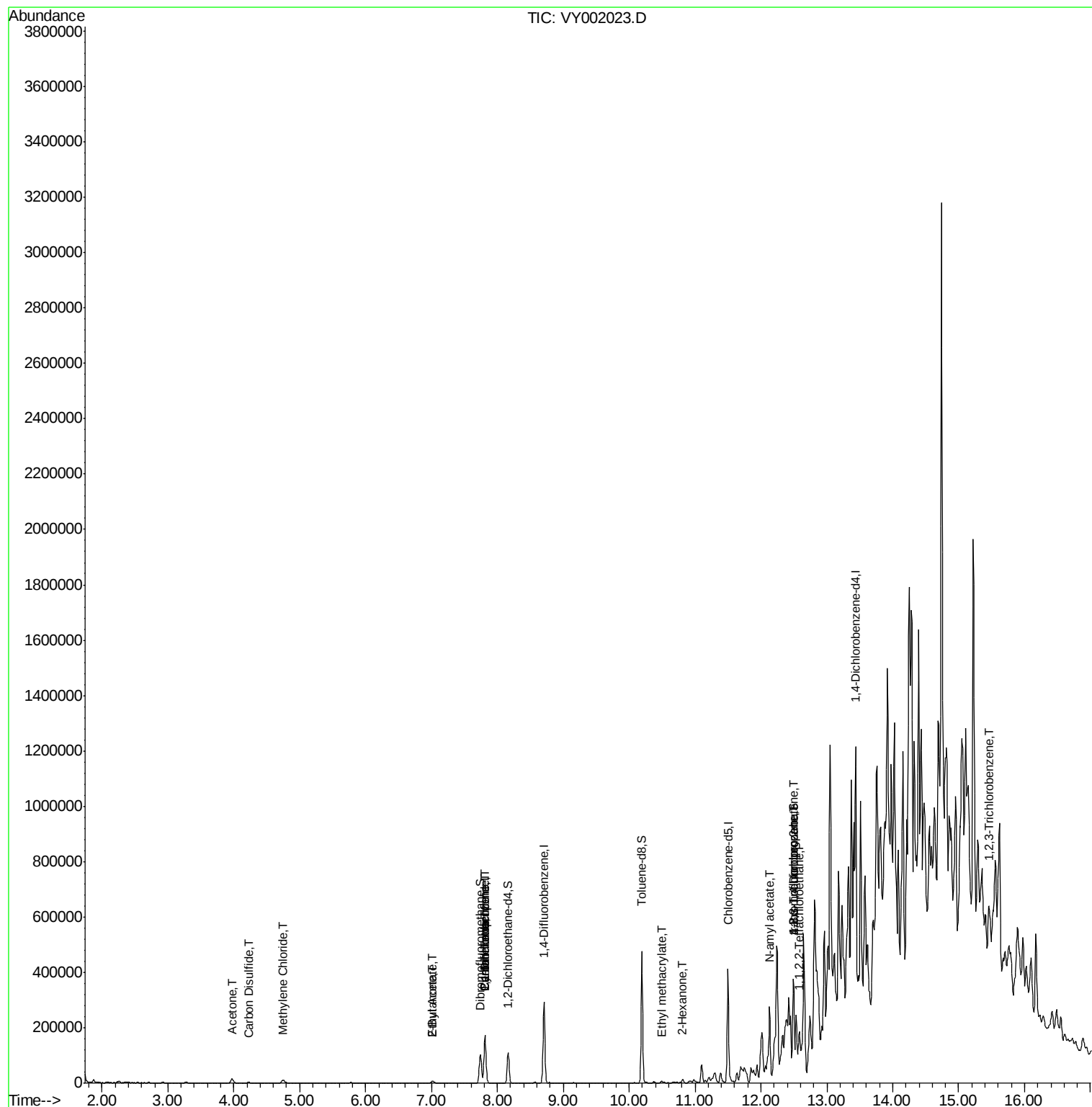
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	129187	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	250951	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	218781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	76295	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	79336	57.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.04%	
35) Dibromofluoromethane	7.74	113	72129	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
50) Toluene-d8	10.19	98	300974	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	
62) 4-Bromofluorobenzene	12.49	95	94255	46.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.82%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.66	94	59	Below Cal	#	4
11) Tert butyl alcohol	4.97	59	507	Below Cal	#	74
16) Acetone	3.97	43	26369	65.645	ug/l	95
17) Carbon Disulfide	4.22	76	5411	1.121	ug/l	98
20) Methylene Chloride	4.75	84	7848	4.559	ug/l	95
25) 2-Butanone	7.02	43	10000	16.370	ug/l	94
31) Cyclohexane	7.82	56	3293	1.087	ug/l #	5
36) 1,1-Dichloropropene	7.81	75	10961	4.539	ug/l #	49
37) Ethyl Acetate	7.02	43	10000	7.125	ug/l #	69
38) Carbon Tetrachloride	7.81	117	13179	6.388	ug/l #	16
56) Ethyl methacrylate	10.50	69	2216	1.114	ug/l #	86
59) 2-Hexanone	10.81	43	5898	6.037	ug/l #	23
74) N-amyl acetate	12.13	43	66006	36.875	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.57	83	11701	9.316	ug/l #	81
76) 1,2,3-Trichloropropane	12.49	75	46008	50.821	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	46008	102.656	ug/l #	19
96) 1,2,3-Trichlorobenzene	15.45	180	3655	2.912	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

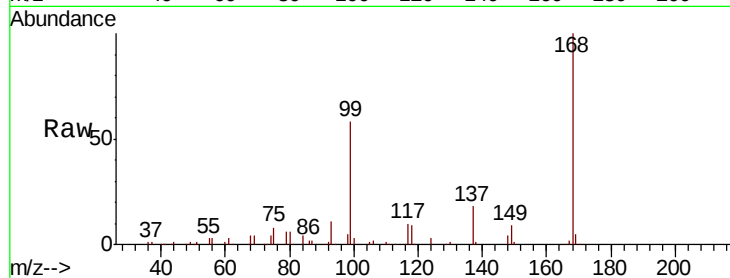
ClientSampleId :

Tot Ion:168 Resp: 129187

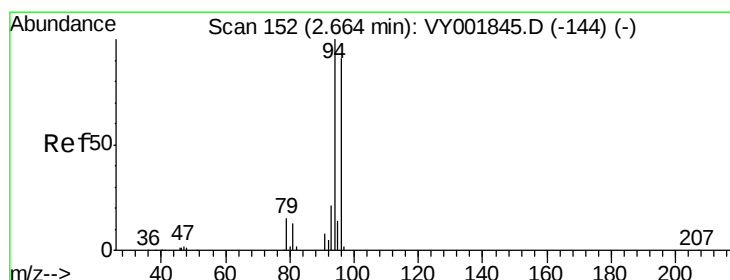
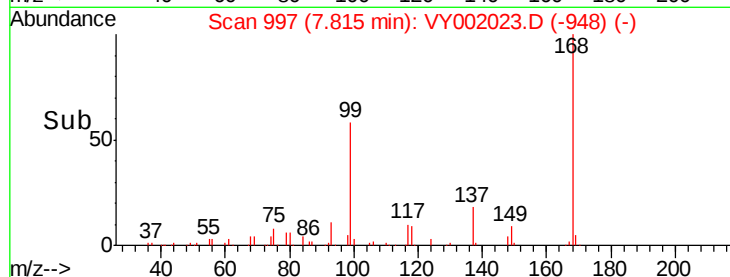
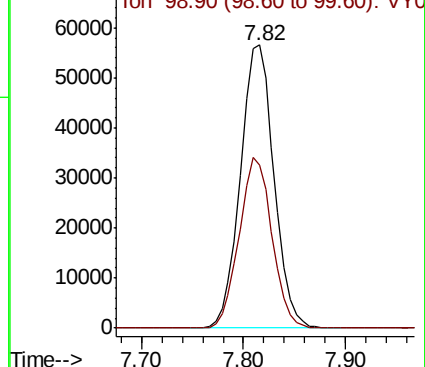
Ion Ratio Lower Upper

168 100

99 57.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.66 min Scan# 152

Delta R.T. 0.00 min

Lab File: VY002023.D

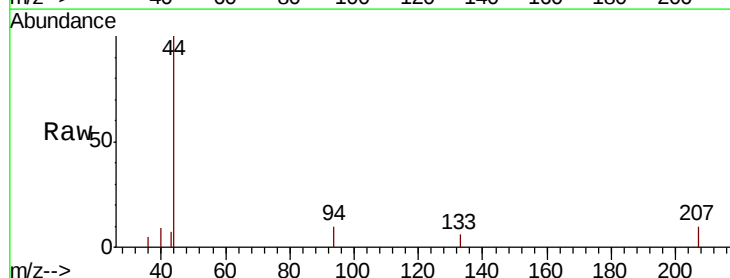
Acq: 19 Mar 2020 15:50

Tgt Ion: 94 Resp: 59

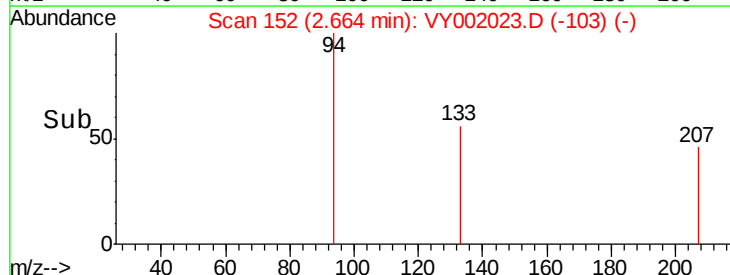
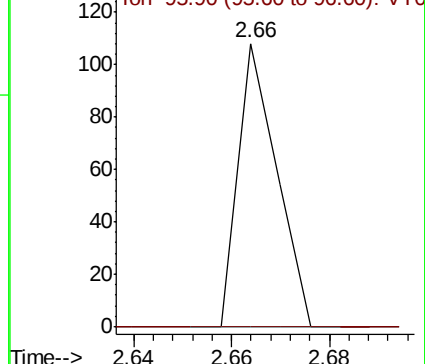
Ion Ratio Lower Upper

94 100

96 0.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)



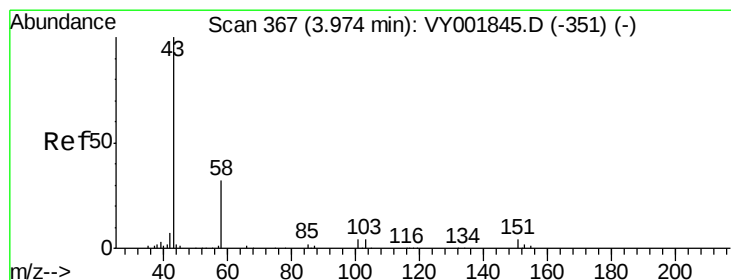
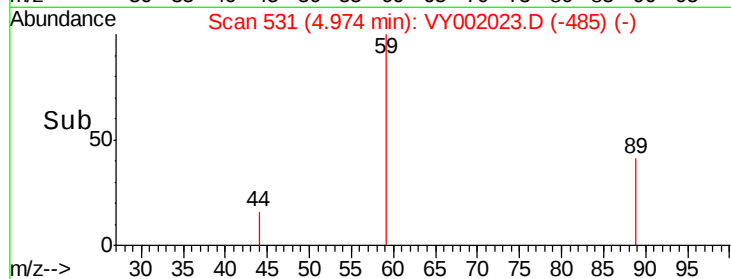
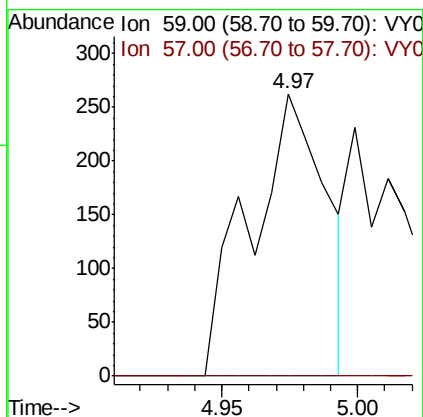
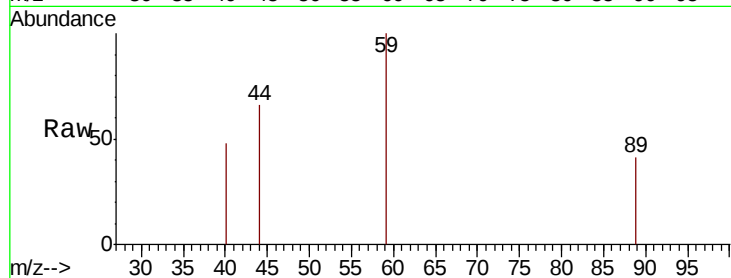


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 4.97 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VY002023.D
 Acq: 19 Mar 2020 15:50

Instrument :
 MSVOA_Y
 ClientSampled :

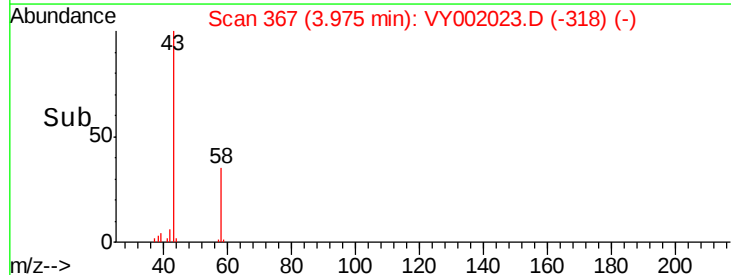
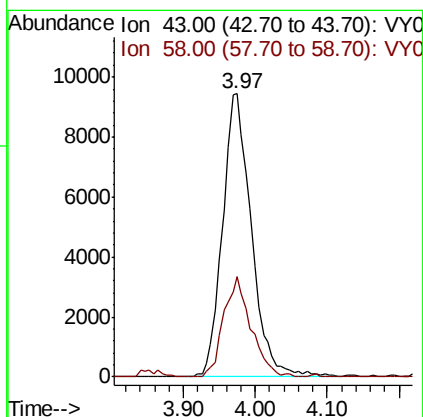
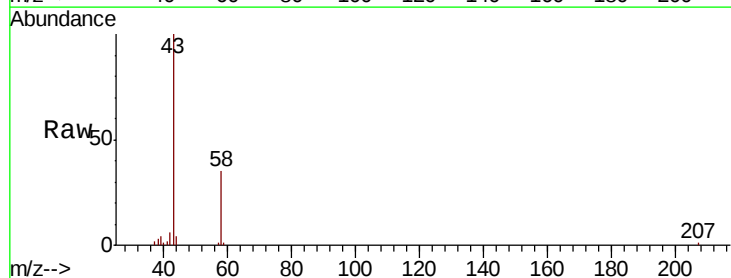
Tot Ion: 59 Resp: 507
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.4 11.2#

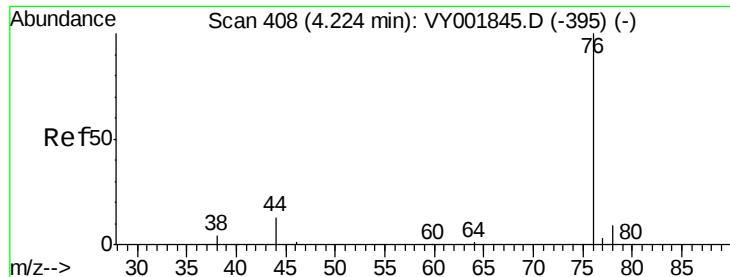


#16

Acetone
 Concen: 65.645 ug/l
 RT: 3.97 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VY002023.D
 Acq: 19 Mar 2020 15:50

Tgt Ion: 43 Resp: 26369
 Ion Ratio Lower Upper
 43 100
 58 35.4 25.9 38.9

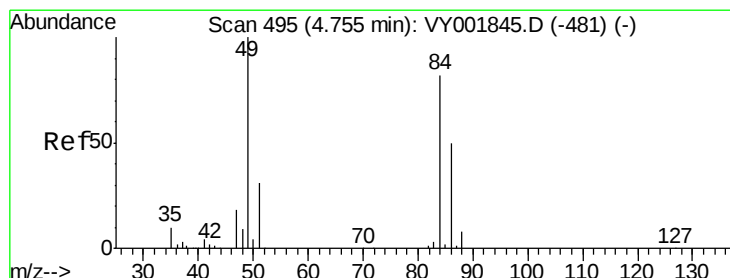
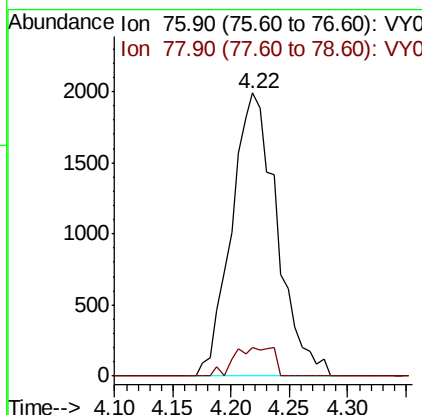
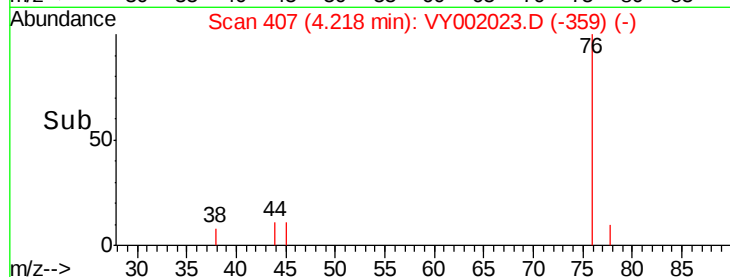
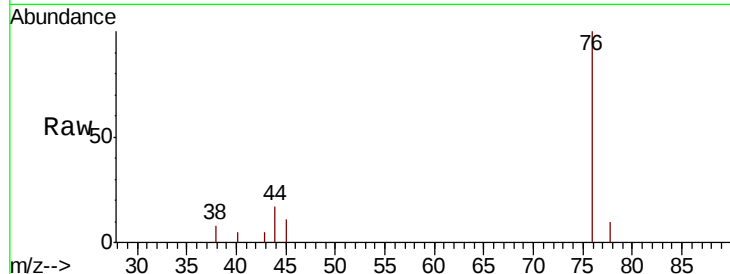




#17
Carbon Disulfide
Concen: 1.121 ug/l
RT: 4.22 min Scan# 407
Delta R.T. -0.01 min
Lab File: VY002023.D
Acq: 19 Mar 2020 15:50

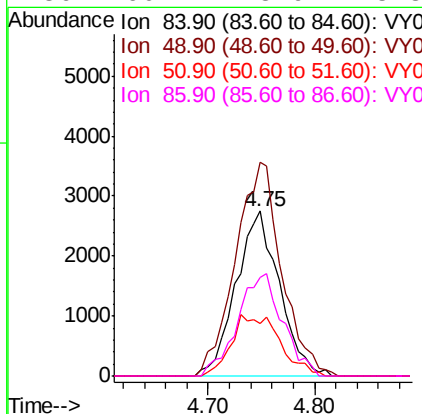
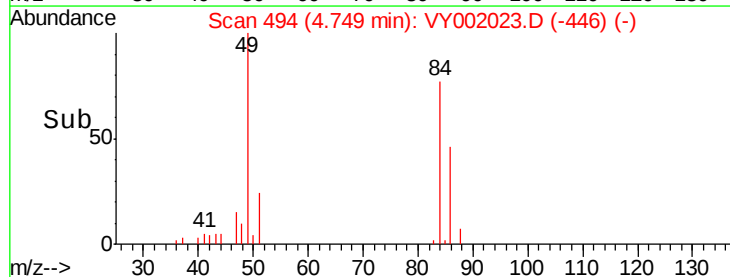
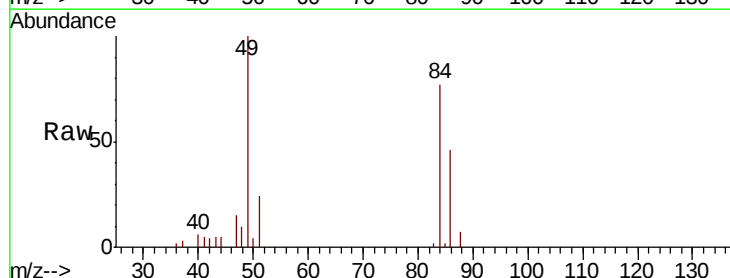
Instrument :
MSVOA_Y
ClientSampleId :

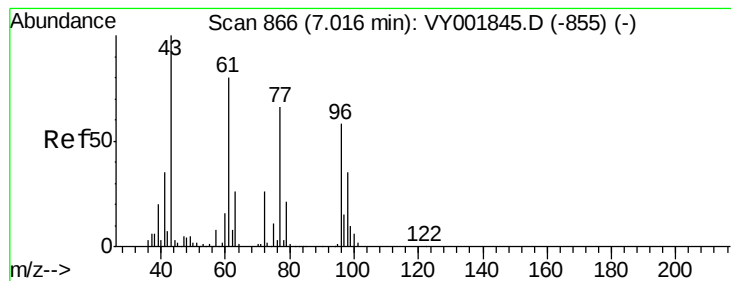
Tot Ion: 76 Resp: 5411
Ion Ratio Lower Upper
76 100
78 10.1 7.4 11.2



#20
Methylene Chloride
Concen: 4.559 ug/l
RT: 4.75 min Scan# 494
Delta R.T. -0.01 min
Lab File: VY002023.D
Acq: 19 Mar 2020 15:50

Tgt Ion: 84 Resp: 7848
Ion Ratio Lower Upper
84 100
49 129.6 98.2 147.2
51 31.6 30.2 45.2
86 60.1 48.9 73.3





#25

2-Butanone

Concen: 16.370 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.00 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

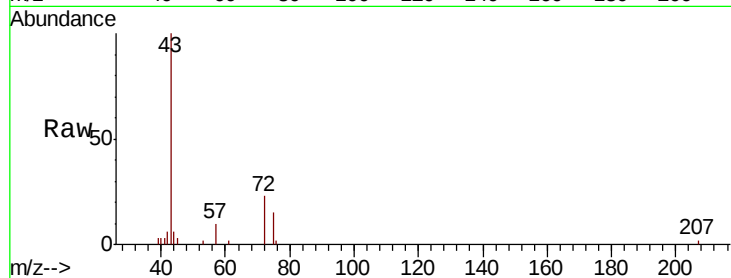
ClientSampleId :

Tot Ion: 43 Resp: 10000

Ion Ratio Lower Upper

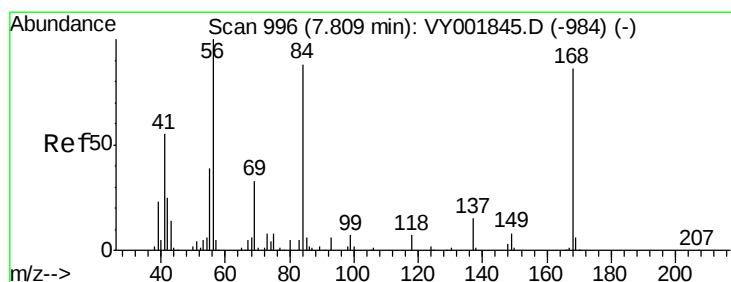
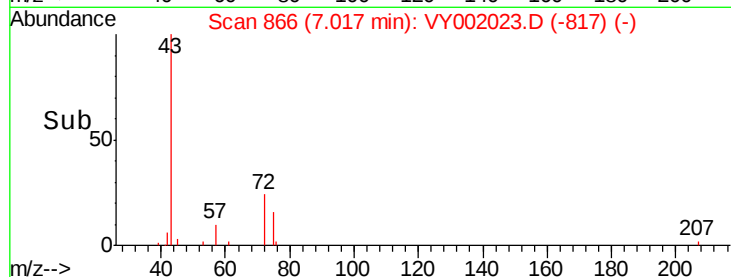
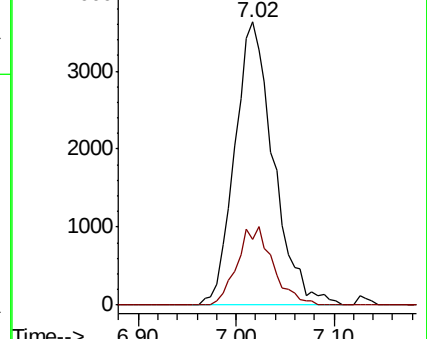
43 100

72 23.1 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#31

Cyclohexane

Concen: 1.087 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

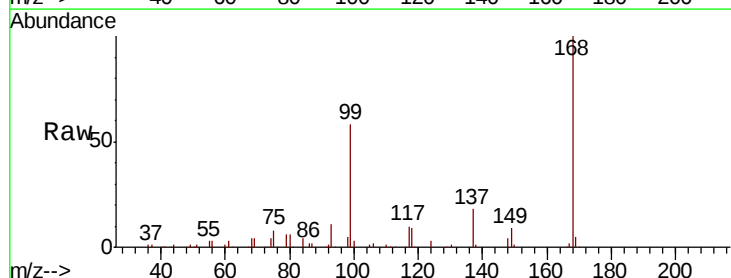
Tgt Ion: 56 Resp: 3293

Ion Ratio Lower Upper

56 100

69 133.7 26.7 40.1#

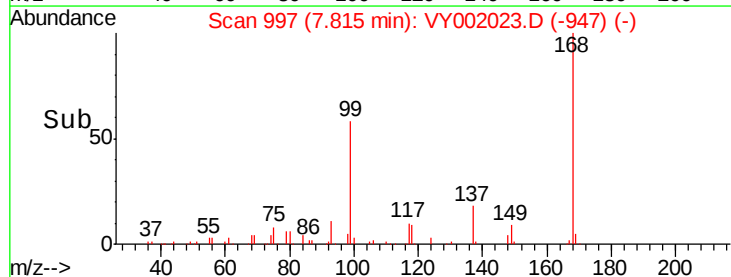
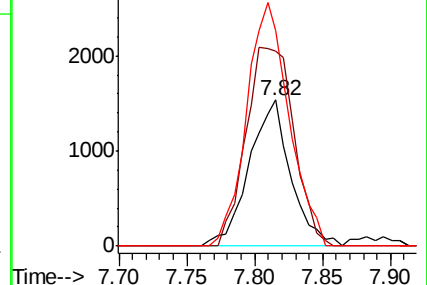
84 147.5 70.4 105.6#

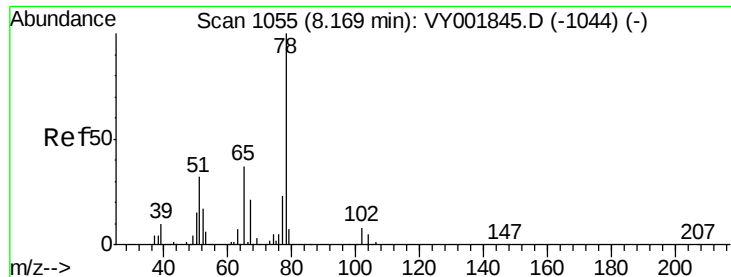


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0

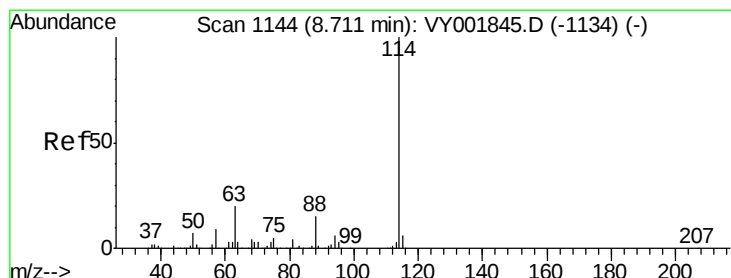
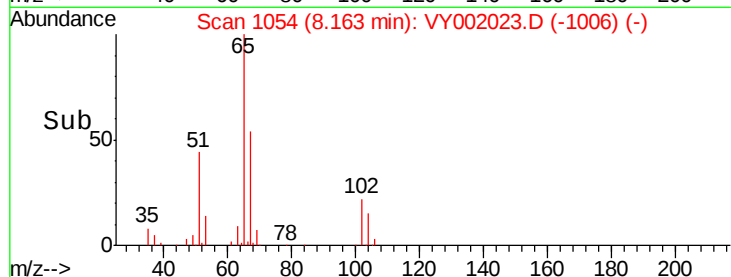
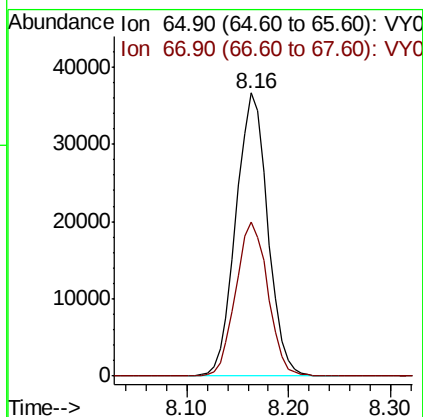
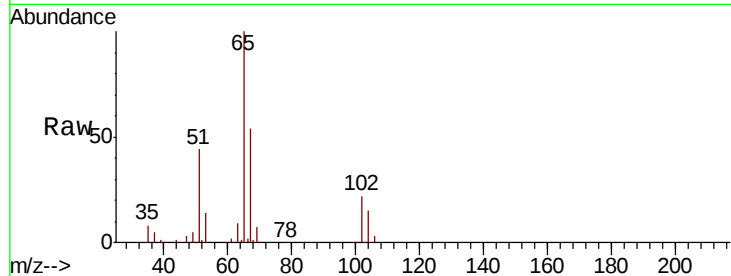




#33
 1,2-Dichloroethane-d4
 Concen: 57.525 ug/l
 RT: 8.16 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VY002023.D
 Acq: 19 Mar 2020 15:50

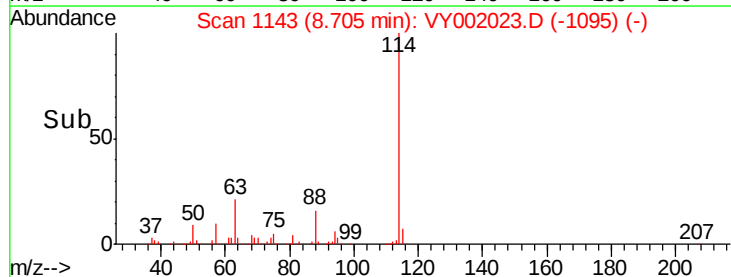
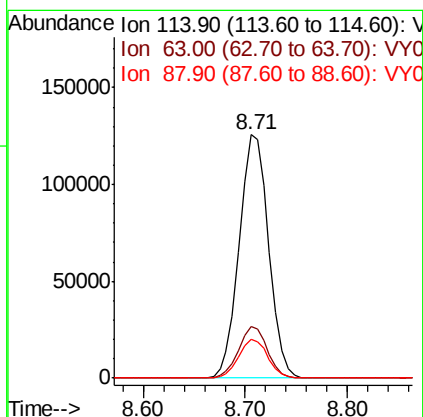
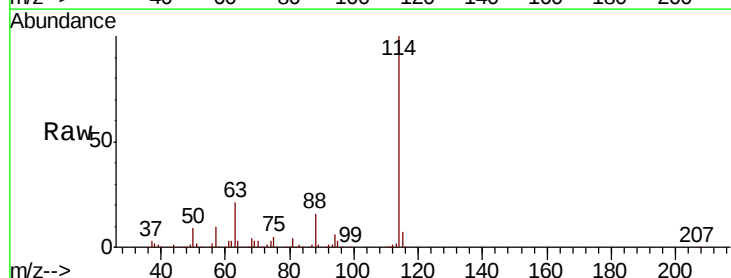
Instrument :
 MSVOA_Y
 ClientSampleId :

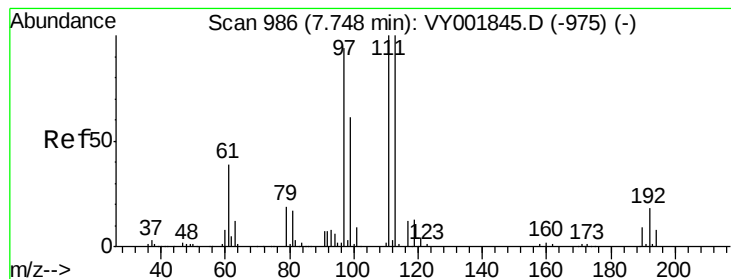
Tot Ion: 65 Resp: 79336
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VY002023.D
 Acq: 19 Mar 2020 15:50

Tgt Ion: 114 Resp: 250951
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.4
 88 15.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.637 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

ClientSampleId :

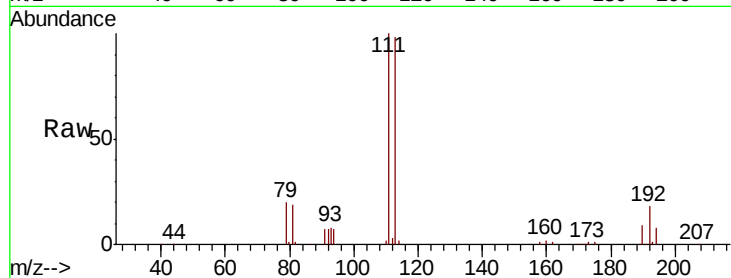
Tot Ion:113 Resp: 72129

Ion Ratio Lower Upper

113 100

111 104.4 81.8 122.8

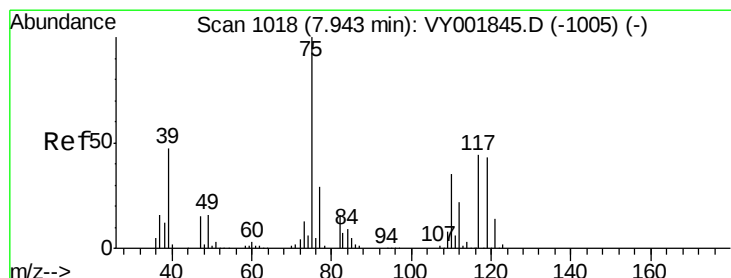
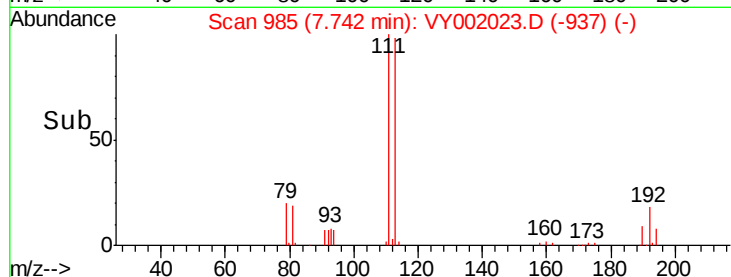
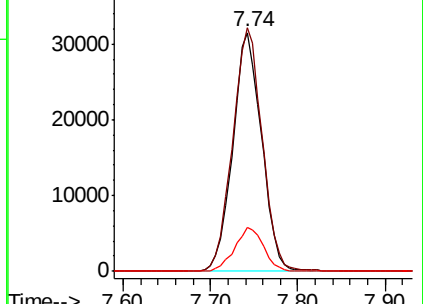
192 18.3 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.539 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.13 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

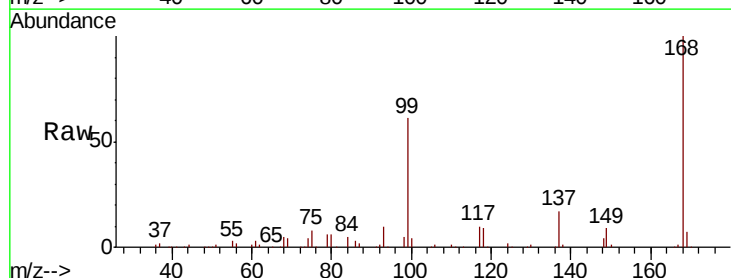
Tgt Ion: 75 Resp: 10961

Ion Ratio Lower Upper

75 100

110 7.8 17.4 52.2#

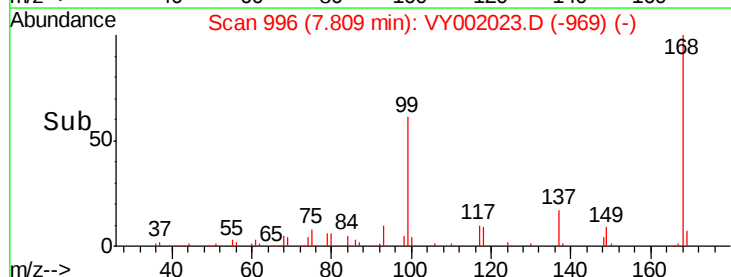
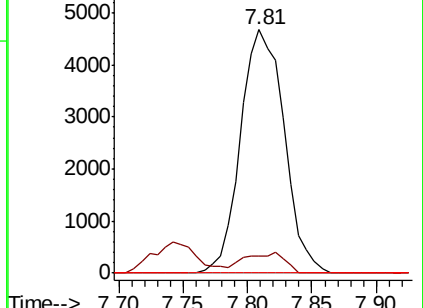
77 0.0 24.2 36.2#

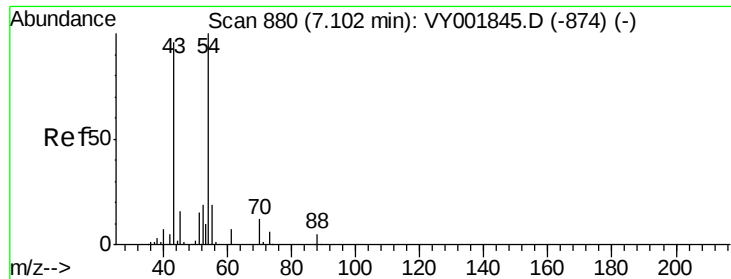


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

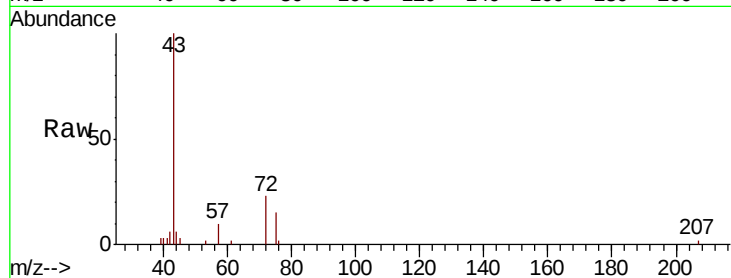




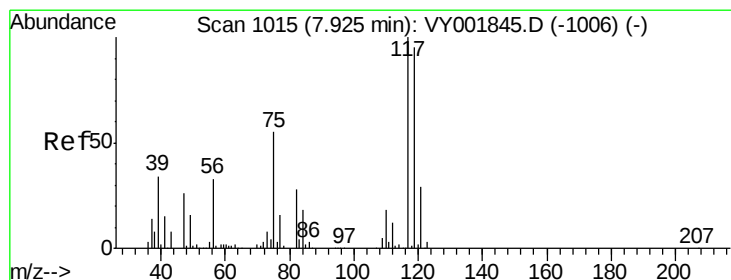
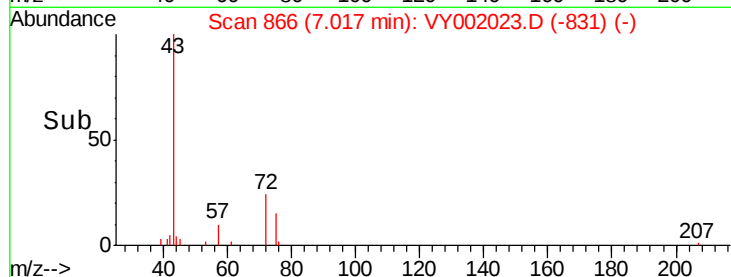
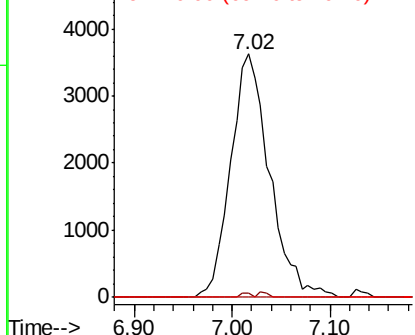
#37
Ethyl Acetate
Concen: 7.125 ug/l
RT: 7.02 min Scan# 866
Delta R.T. -0.09 min
Lab File: VY002023.D
Acq: 19 Mar 2020 15:50

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 10000
Ion Ratio Lower Upper
43 100
61 0.4 11.1 16.7#
70 0.0 8.2 12.4#

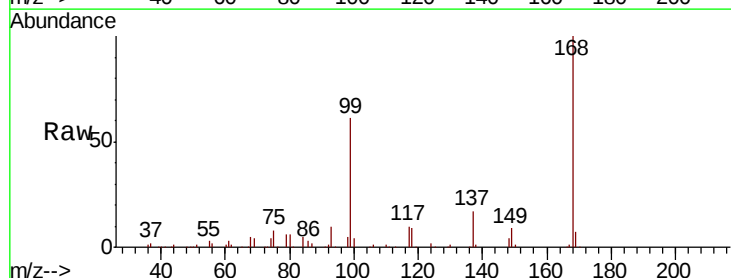


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

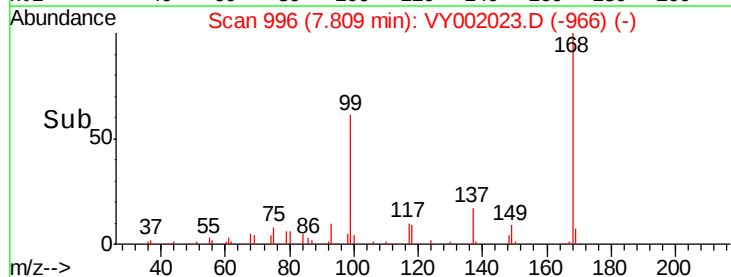
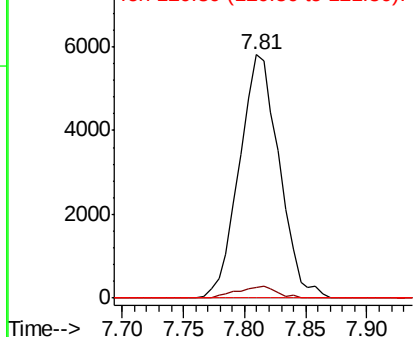


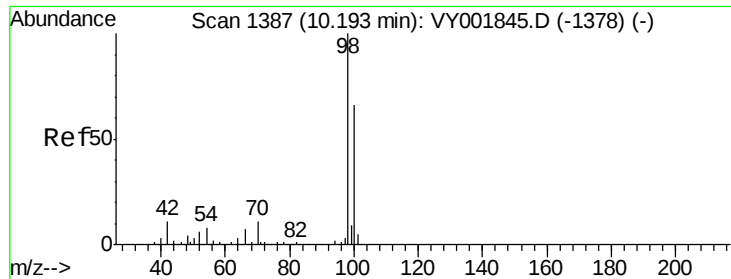
#38
Carbon Tetrachloride
Concen: 6.388 ug/l
RT: 7.81 min Scan# 996
Delta R.T. -0.12 min
Lab File: VY002023.D
Acq: 19 Mar 2020 15:50

Tgt Ion: 117 Resp: 13179
Ion Ratio Lower Upper
117 100
119 4.4 76.3 114.5#
121 0.0 23.5 35.3#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 52.087 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

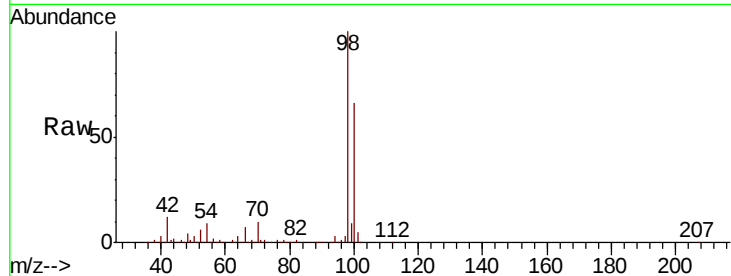
ClientSampleId :

Tot Ion: 98 Resp: 300974

Ion Ratio Lower Upper

98 100

100 65.9 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.19

200000

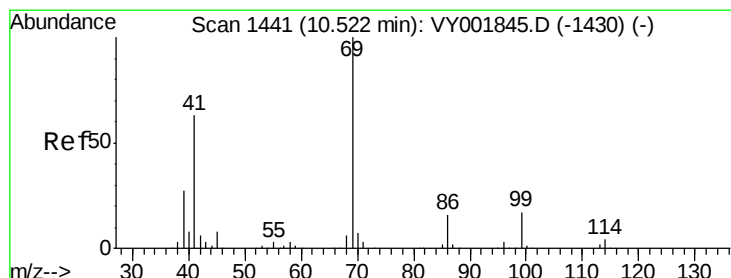
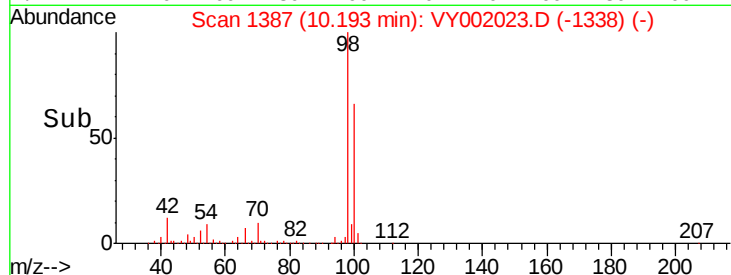
150000

100000

50000

0

Time--> 10.10 10.20 10.30



#56

Ethyl methacrylate

Concen: 1.114 ug/l

RT: 10.50 min Scan# 1437

Delta R.T. -0.02 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

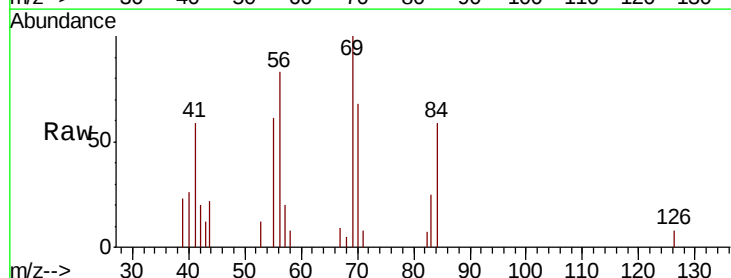
Tgt Ion: 69 Resp: 2216

Ion Ratio Lower Upper

69 100

41 75.6 49.9 74.9#

39 32.6 23.0 34.6



Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

1200

1000

800

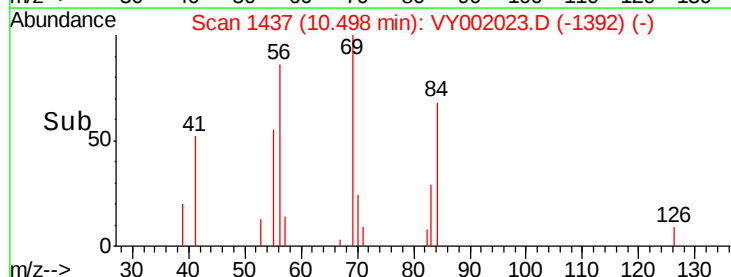
600

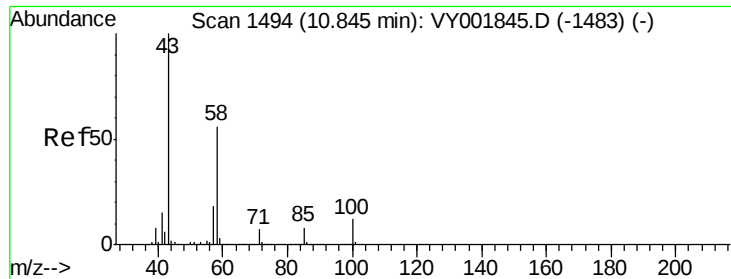
400

200

0

Time--> 10.40 10.50





#59

2-Hexanone

Concen: 6.037 ug/l

RT: 10.81 min Scan# 1488

Delta R.T. -0.04 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

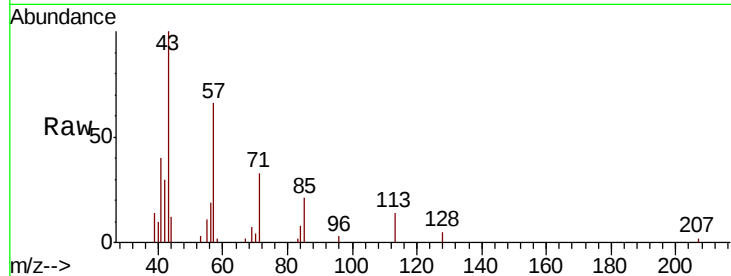
ClientSampleId :

Tot Ion: 43 Resp: 5898

Ion Ratio Lower Upper

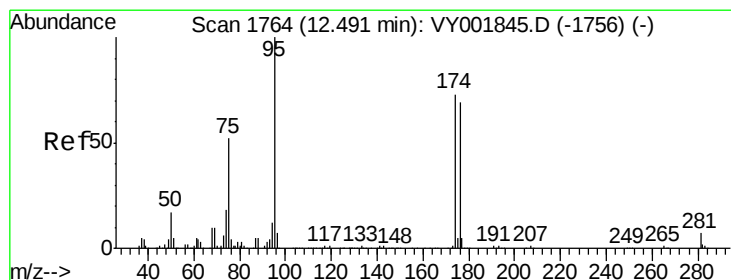
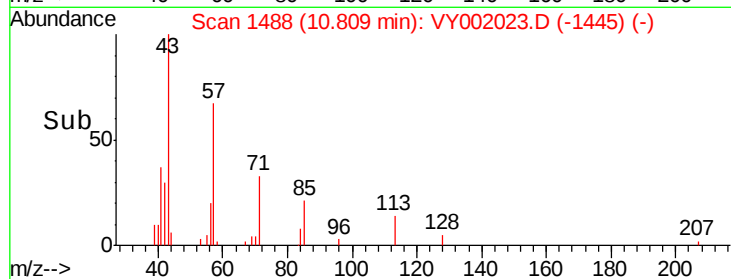
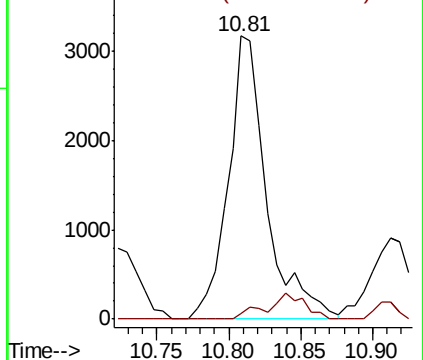
43 100

58 0.0 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#62

4-Bromofluorobenzene

Concen: 46.912 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

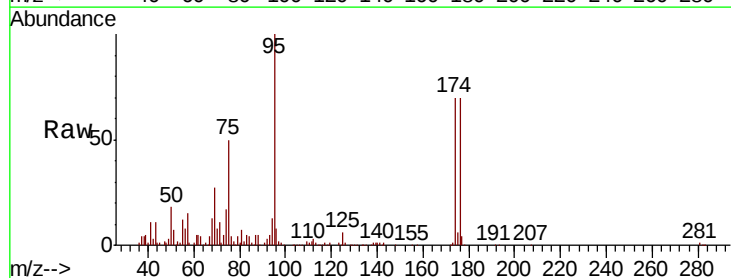
Tgt Ion: 95 Resp: 94255

Ion Ratio Lower Upper

95 100

174 69.5 0.0 145.0

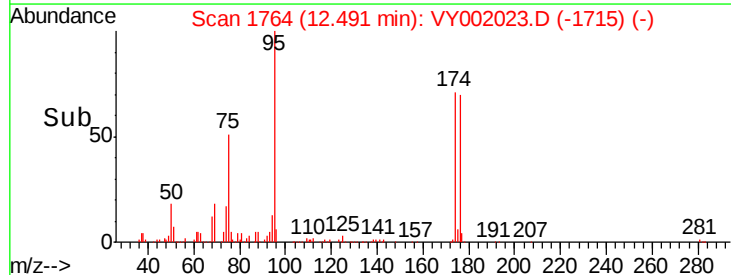
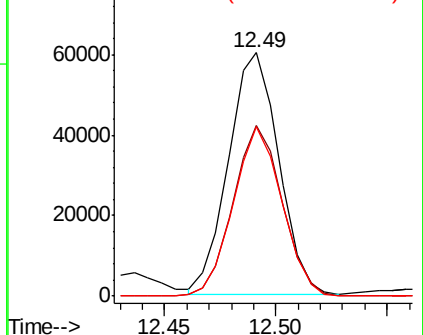
176 67.9 0.0 137.4

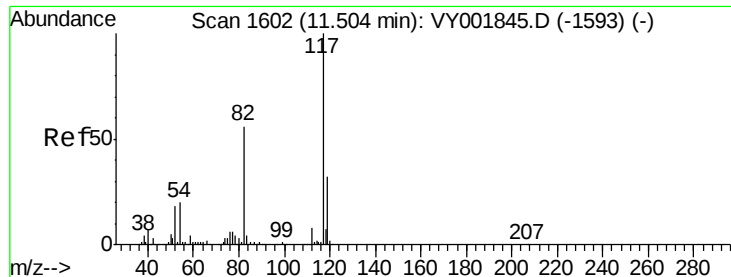


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

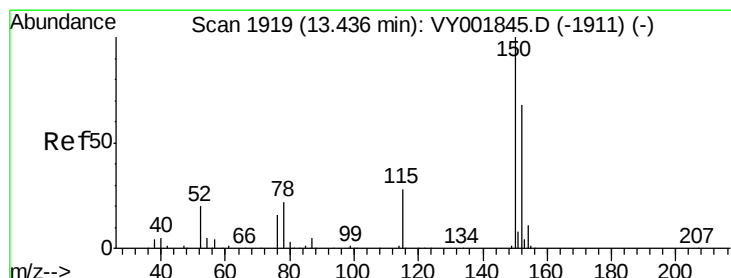
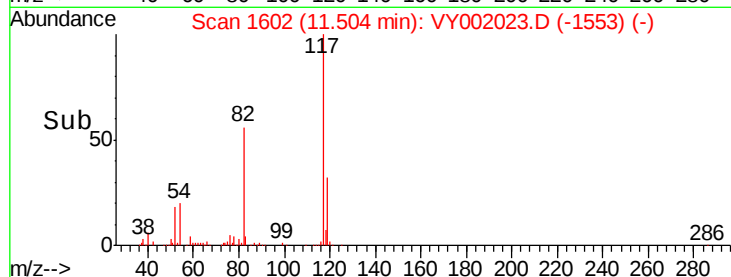
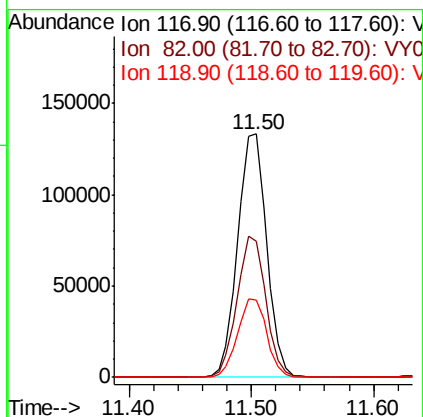
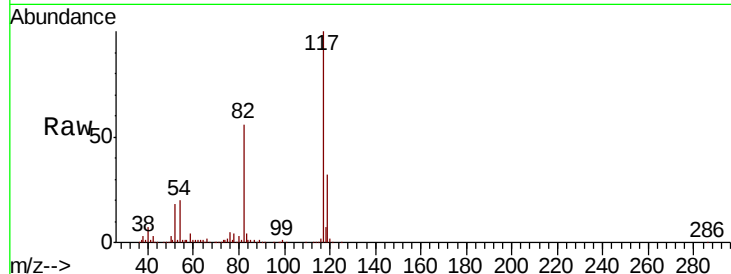




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY002023.D
Acq: 19 Mar 2020 15:50

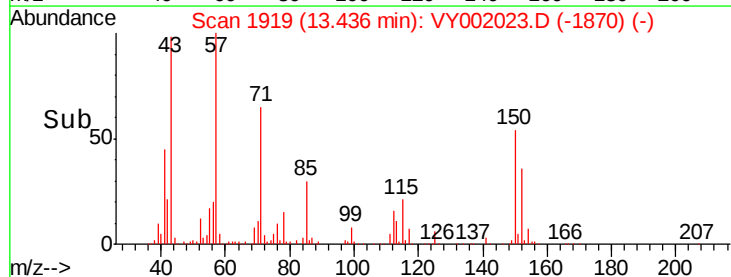
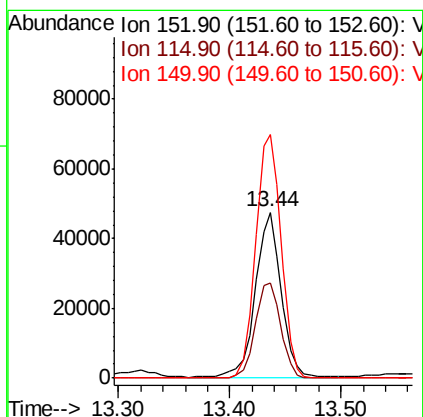
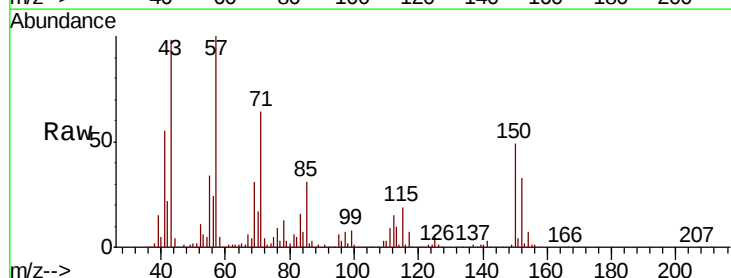
Instrument :
MSVOA_Y
ClientSampleId :

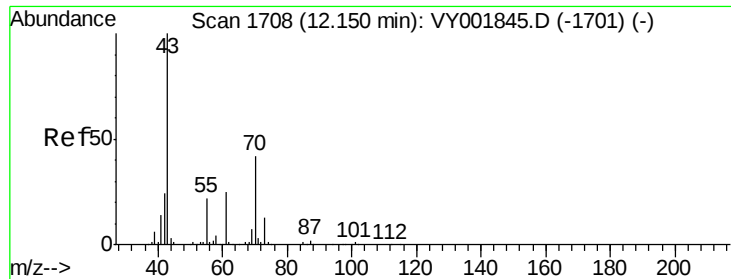
Tot Ion:117 Resp: 218781
Ion Ratio Lower Upper
117 100
82 55.7 44.5 66.7
119 31.6 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.00 min
Lab File: VY002023.D
Acq: 19 Mar 2020 15:50

Tgt Ion:152 Resp: 76295
Ion Ratio Lower Upper
152 100
115 57.5 29.9 89.7
150 144.9 0.0 340.6





#74

N-amvl acetate

Concen: 36.875 ug/l

RT: 12.13 min Scan# 1705

Delta R.T. -0.02 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion: 43 Resp: 66006

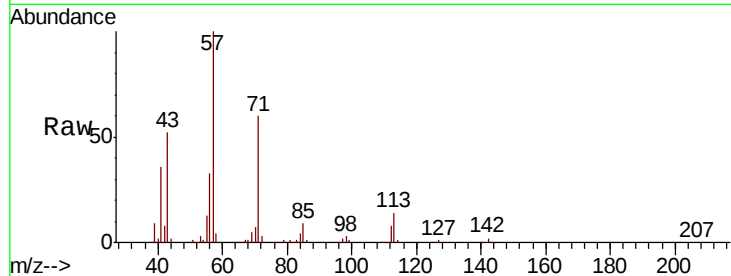
Ion Ratio Lower Upper

43 100

70 0.0 34.7 52.1#

55 9.5 18.2 27.4#

61 0.0 20.1 30.1#

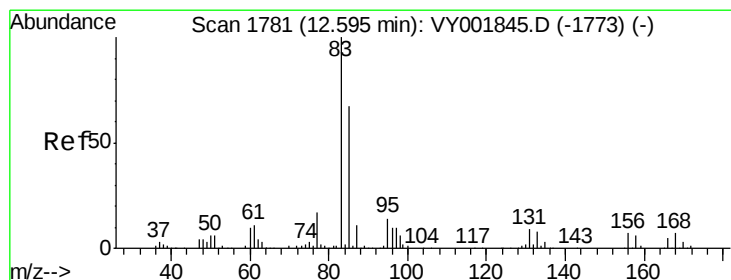
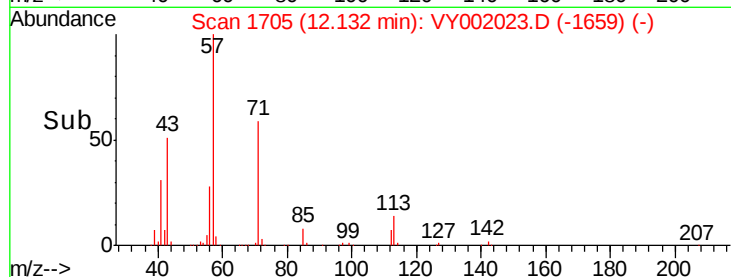
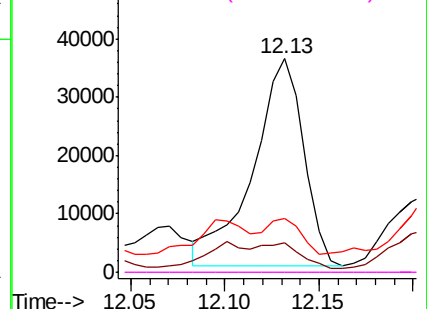


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#75

1,1,2,2-Tetrachloroethane

Concen: 9.316 ug/l

RT: 12.57 min Scan# 1777

Delta R.T. -0.02 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

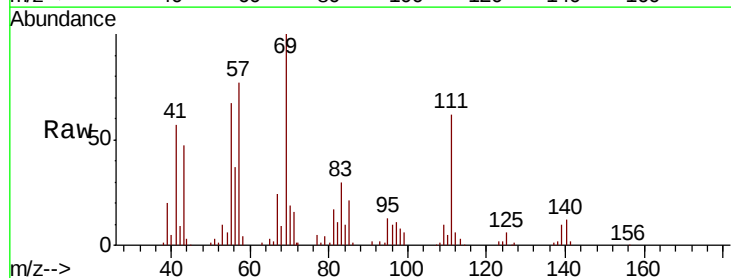
Tgt Ion: 83 Resp: 11701

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

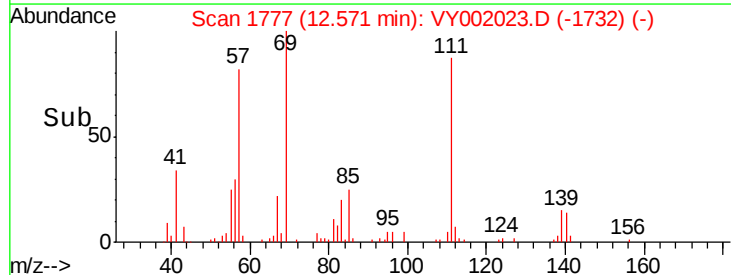
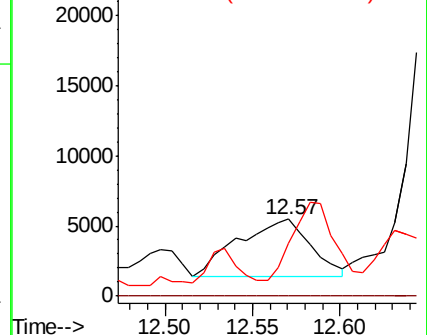
85 78.0 32.1 96.3

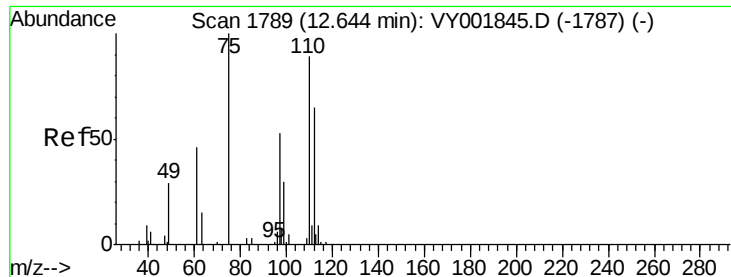


Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VY0





#76

1,2,3-Trichloropropane

Concen: 50.821 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

Instrument :

MSVOA_Y

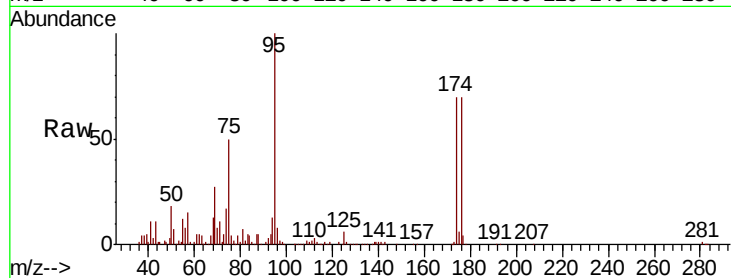
ClientSampleId :

Tot Ion: 75 Resp: 46008

Ion Ratio Lower Upper

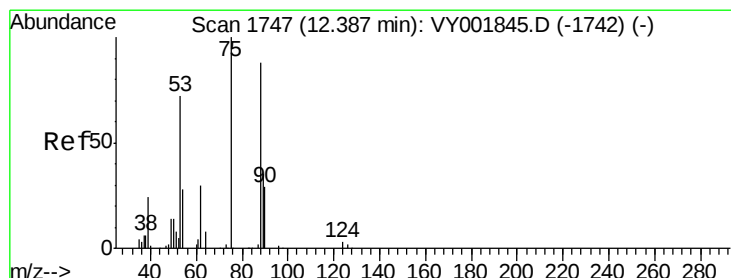
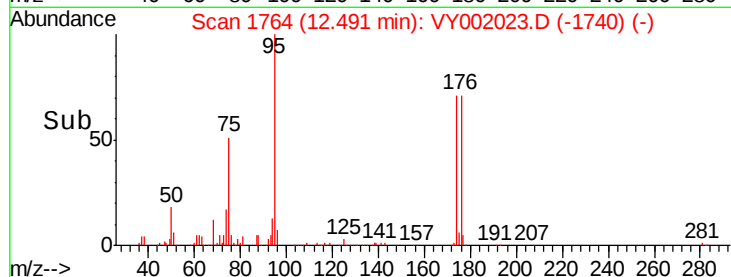
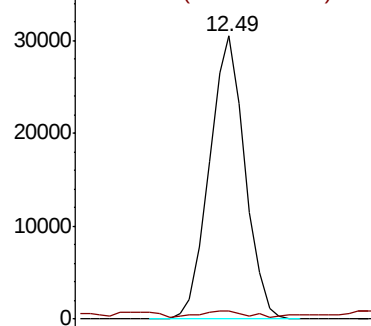
75 100

77 2.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 102.656 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002023.D

Acq: 19 Mar 2020 15:50

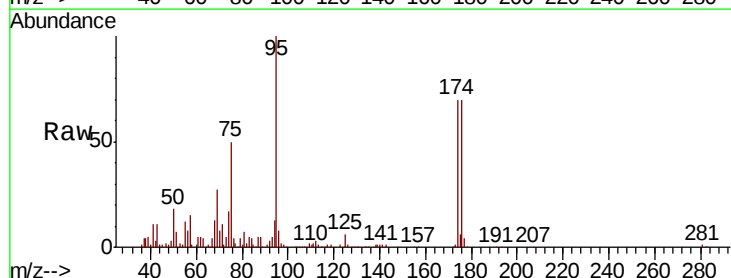
Tgt Ion: 75 Resp: 46008

Ion Ratio Lower Upper

75 100

53 2.9 65.4 98.0#

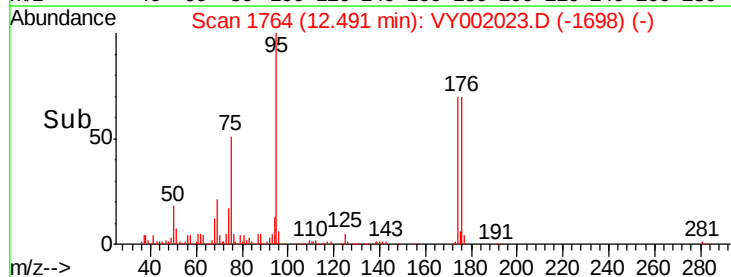
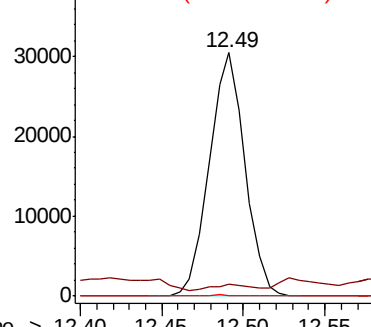
89 0.3 36.0 54.0#

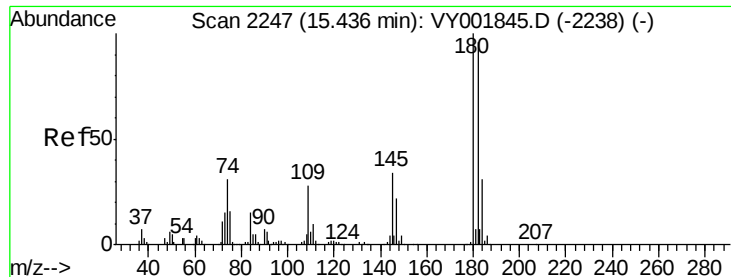


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

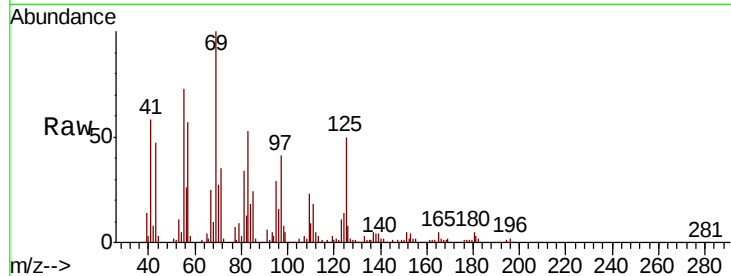




#96
 1,2,3-Trichlorobenzene
 Concen: 2.912 ug/l
 RT: 15.45 min Scan# 2250
 Delta R.T. 0.02 min
 Lab File: VY002023.D
 Acq: 19 Mar 2020 15:50

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.6	142.9#
145	0.0	16.8	50.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

