

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112019\
 Data File : VY000759.D
 Acq On : 20 Nov 2019 18:00
 Operator : SY/MD
 Sample : K5933-04
 Misc : 6.47G/5ML/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 21 07:44:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:30:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	338893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	590215	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	516639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	236679	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	171139	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
35) Dibromofluoromethane	7.72	113	168808	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
50) Toluene-d8	10.18	98	688398	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.48	95	238950	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	

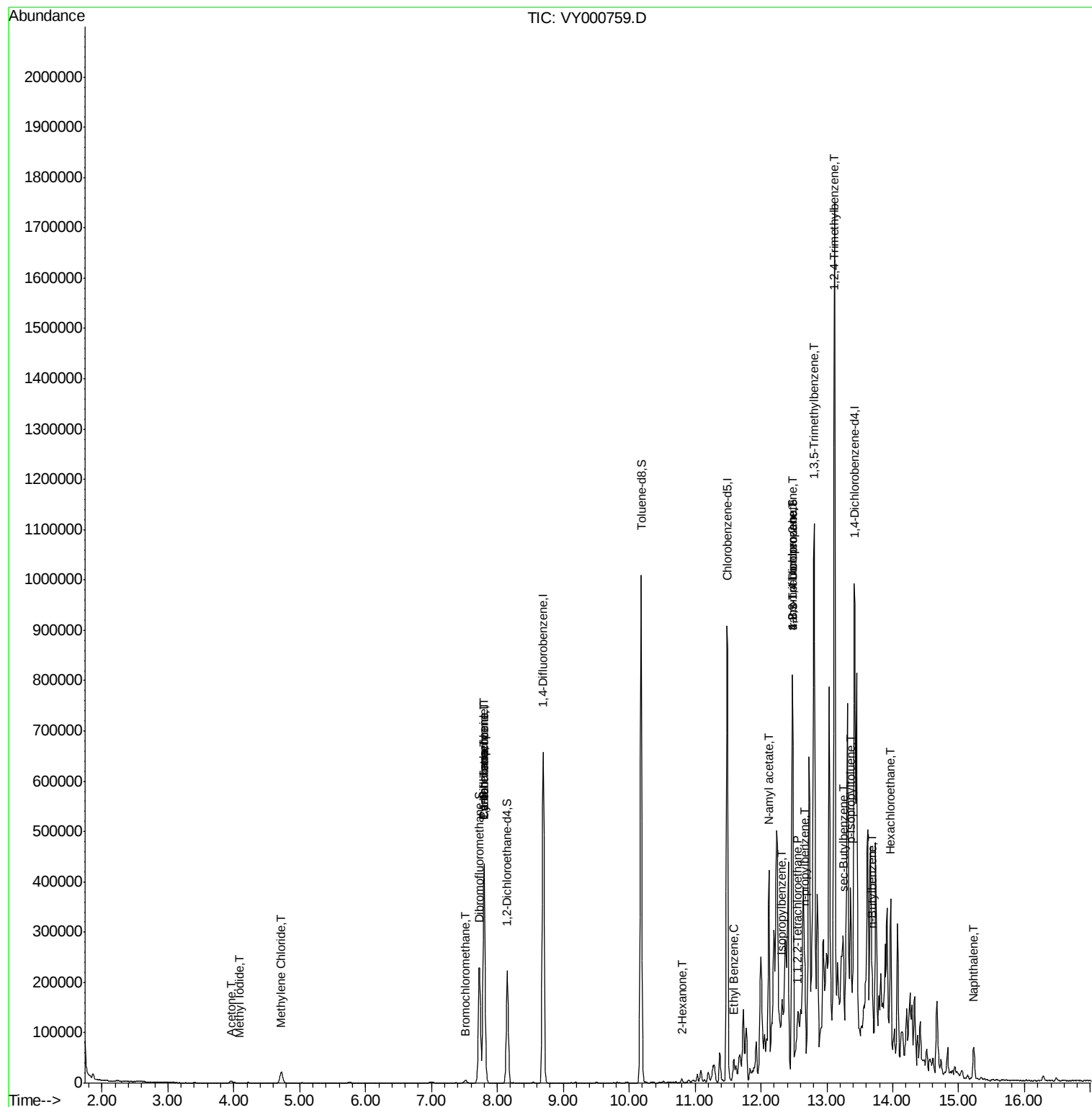
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.09	142	285	3.257	ug/l #	41
16) Acetone	3.96	43	6322	6.540	ug/l #	82
20) Methylene Chloride	4.71	84	17230	4.160	ug/l	88
28) Bromochloromethane	7.51	49	479	4.241	ug/l #	14
31) Cyclohexane	7.80	56	6915	1.019	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	24424	4.377	ug/l #	49
38) Carbon Tetrachloride	7.79	117	32437	6.042	ug/l #	16
59) 2-Hexanone	10.80	43	3263	1.354	ug/l #	24
67) Ethyl Benzene	11.59	91	27547	1.429	ug/l	94
73) Isopropylbenzene	12.33	105	33657	1.924	ug/l	98
74) N-amyl acetate	12.12	43	70300	14.033	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.54	83	8687	2.508	ug/l #	25
76) 1,2,3-Trichloropropane	12.48	75	113016	41.937	ug/l #	100
78) n-propylbenzene	12.67	91	132485	6.277	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	285873	19.623	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.48	75	113016	94.028	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.11	105	889805	61.343	ug/l	99
85) sec-Butylbenzene	13.25	105	67668	3.818	ug/l #	69
86) p-Isopropyltoluene	13.36	119	69389	4.393	ug/l	97
89) n-Butylbenzene	13.69	91	66115	4.244	ug/l #	77
90) Hexachloroethane	13.97	117	12757	4.369	ug/l #	14
95) Naphthalene	15.23	128	53424	5.014	ug/l	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

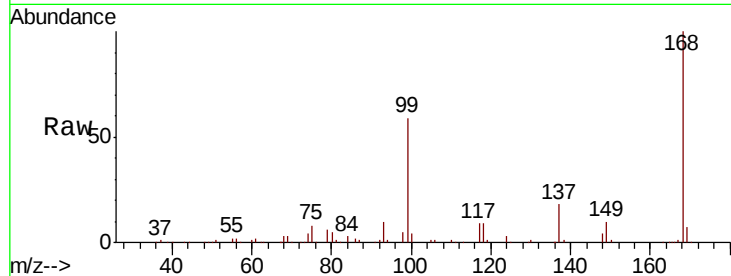
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 338893

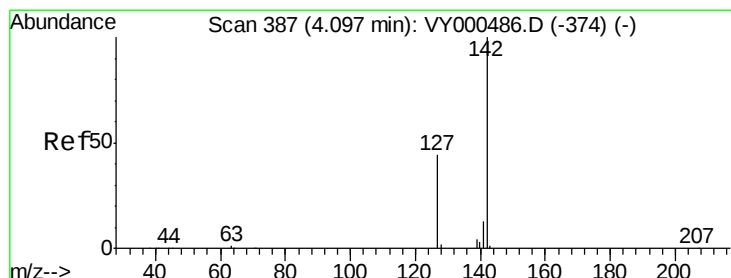
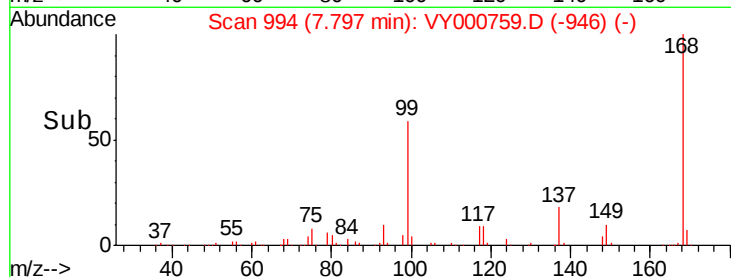
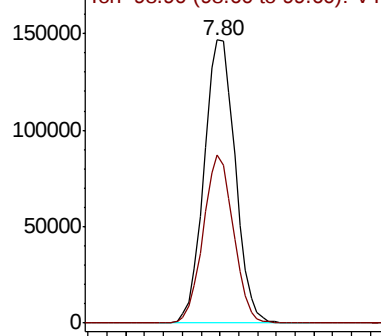
Ion Ratio Lower Upper

168 100

99 59.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VY0



#10

Methyl Iodide

Concen: 3.257 ug/l

RT: 4.09 min Scan# 386

Delta R.T. -0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

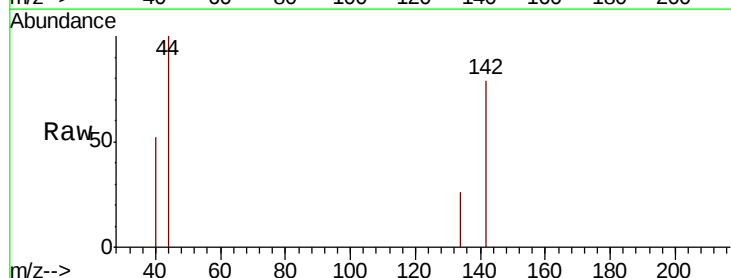
Tgt Ion:142 Resp: 285

Ion Ratio Lower Upper

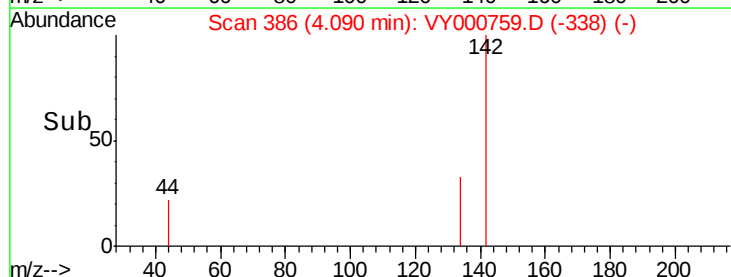
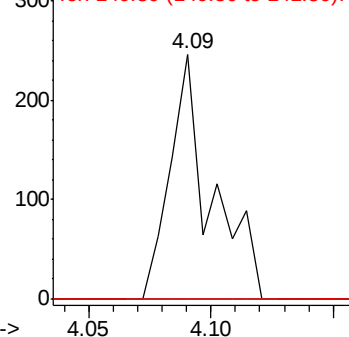
142 100

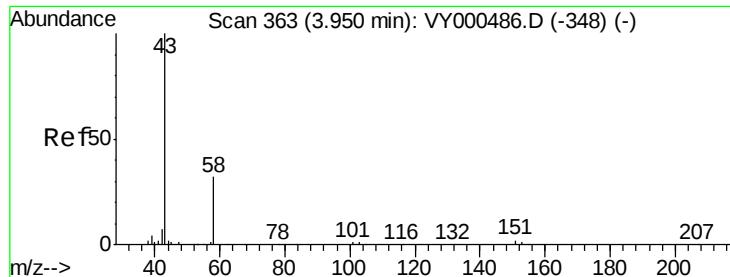
127 0.0 33.7 50.5#

141 0.0 10.9 16.3#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 6.540 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

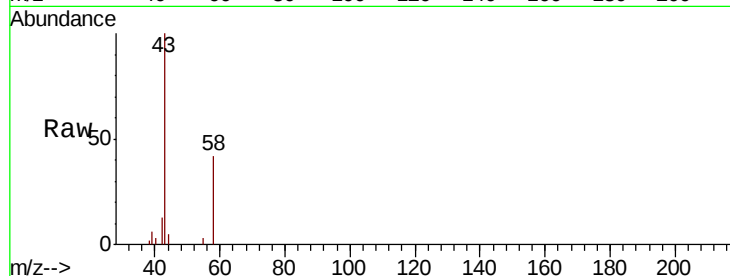
ClientSampled :

Tot Ion: 43 Resp: 6322

Ion Ratio Lower Upper

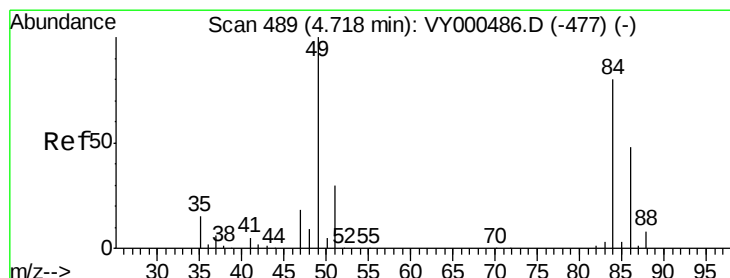
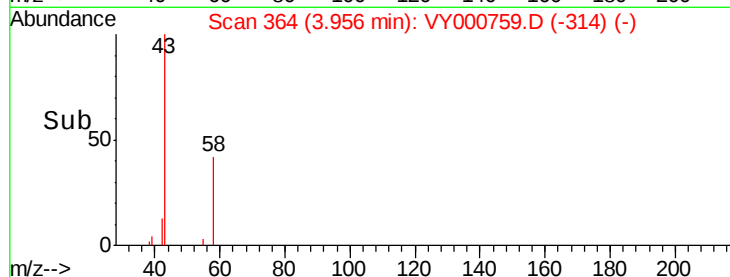
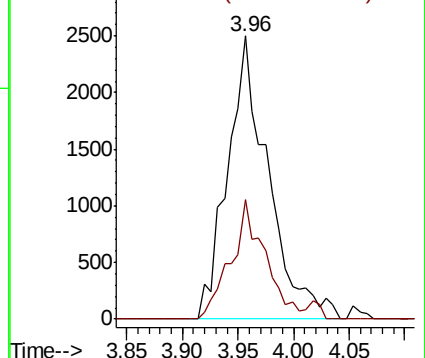
43 100

58 42.1 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 4.160 ug/l

RT: 4.71 min Scan# 488

Delta R.T. -0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Tgt Ion: 84 Resp: 17230

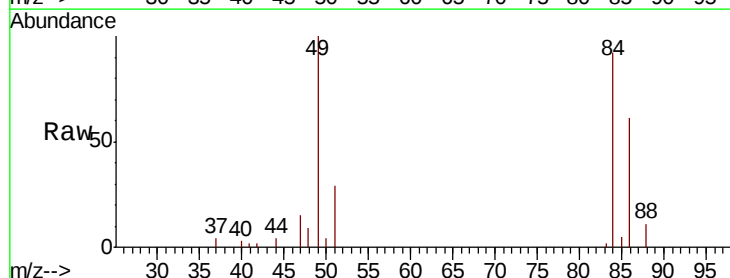
Ion Ratio Lower Upper

84 100

49 108.5 100.2 150.4

51 31.0 29.6 44.4

86 65.6 48.3 72.5

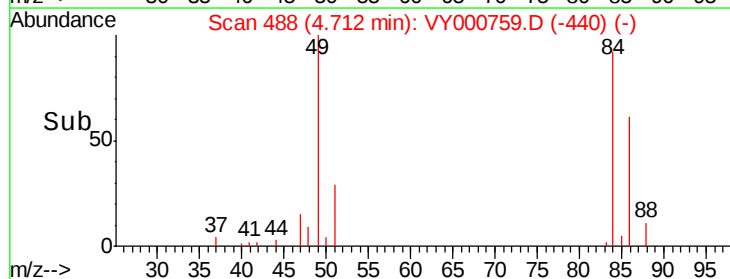
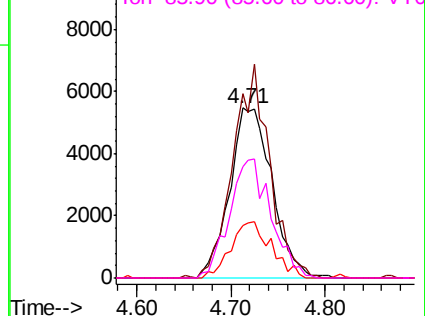


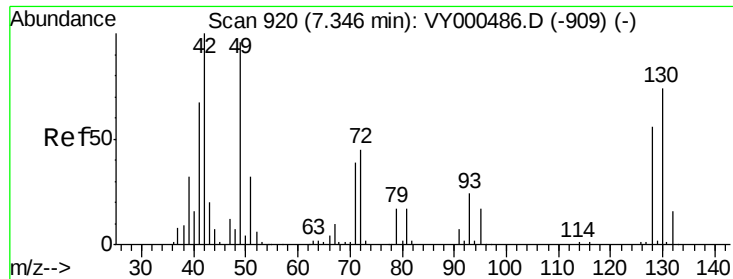
Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0





#28

Bromochloromethane

Concen: 4.241 ug/l

RT: 7.51 min Scan# 947

Delta R.T. 0.17 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

ClientSampled :

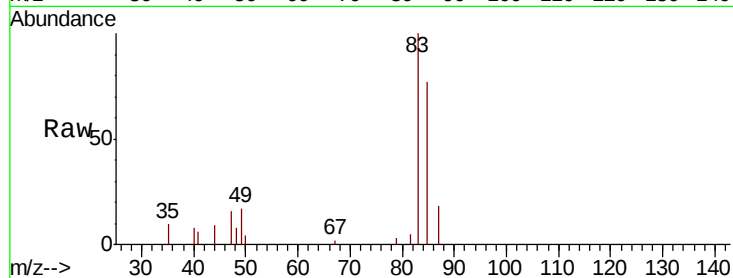
Tot Ion: 49 Resp: 479

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

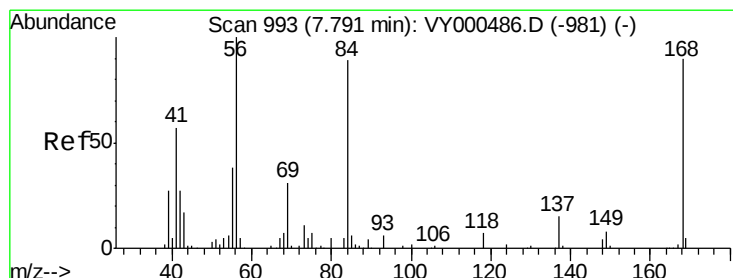
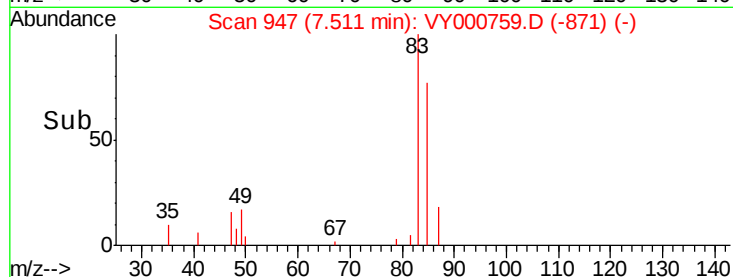
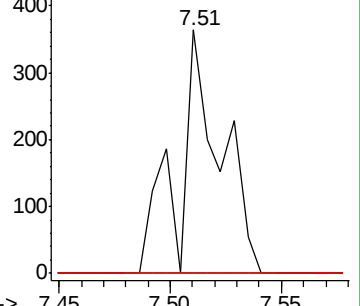
130 0.0 59.4 89.0#



Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): VY0

Ion 129.80 (129.50 to 130.50): VY0



#31

Cyclohexane

Concen: 1.019 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

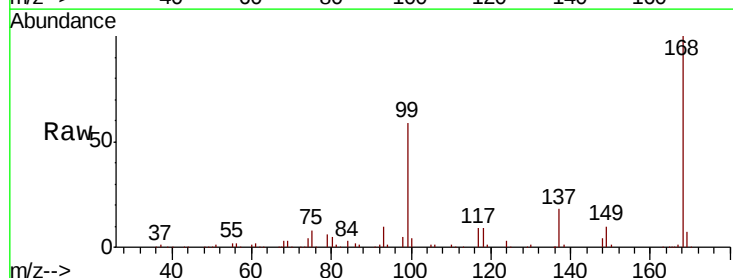
Tgt Ion: 56 Resp: 6915

Ion Ratio Lower Upper

56 100

69 157.7 25.0 37.6#

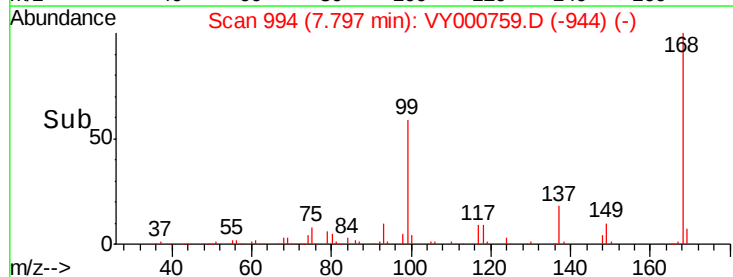
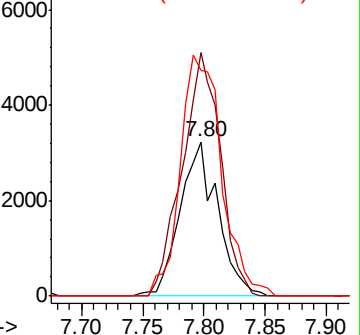
84 146.0 71.4 107.2#

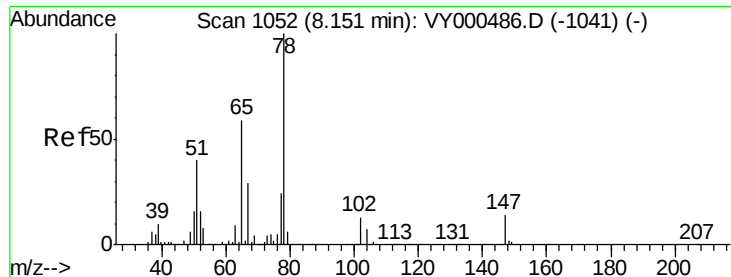


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 48.798 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

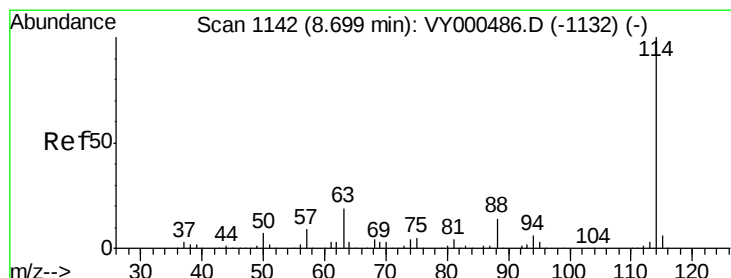
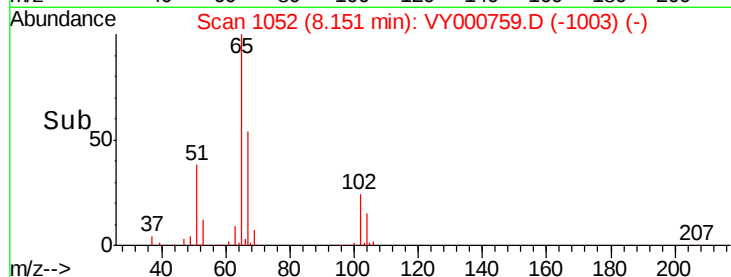
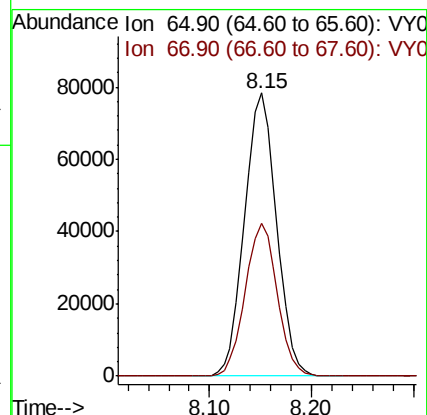
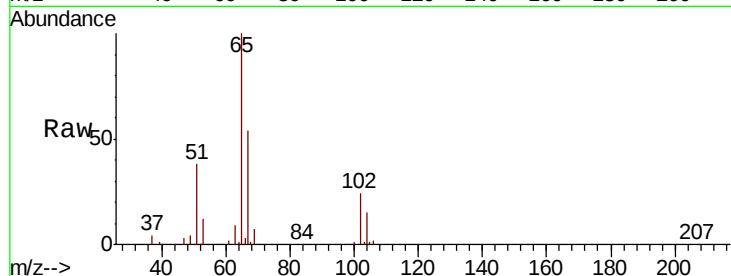
ClientSampleId :

Tot Ion: 65 Resp: 171139

Ion Ratio Lower Upper

65 100

67 54.1 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

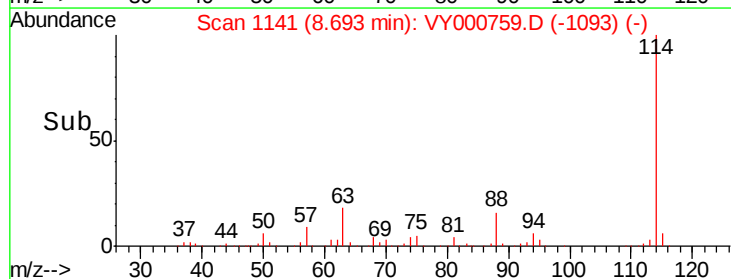
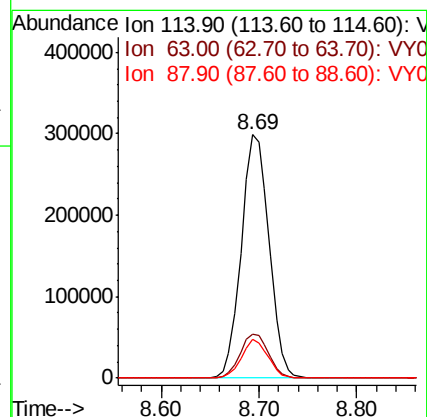
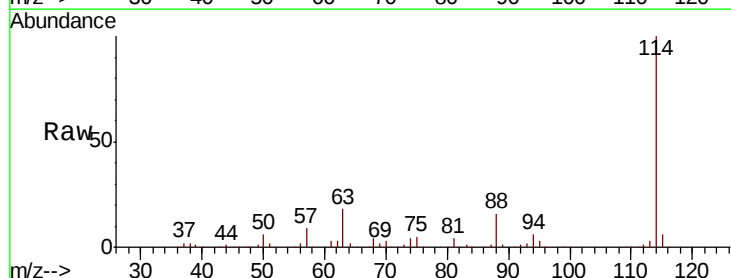
Tgt Ion: 114 Resp: 590215

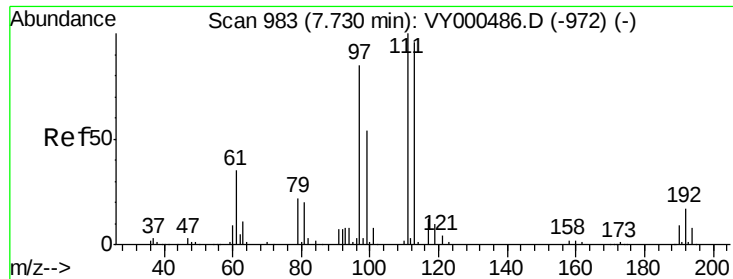
Ion Ratio Lower Upper

114 100

63 18.2 0.0 38.0

88 15.7 0.0 28.6

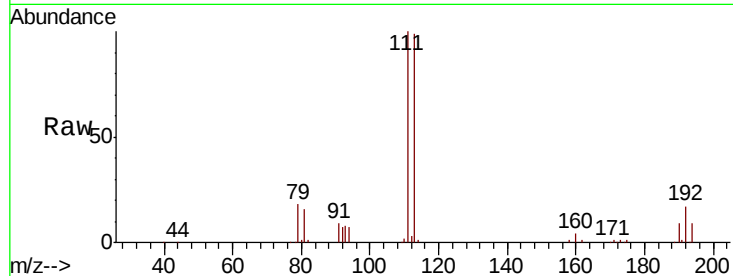




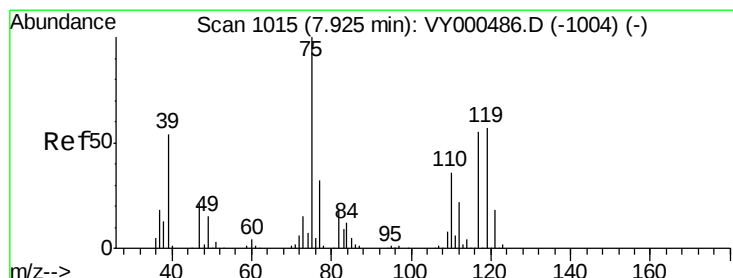
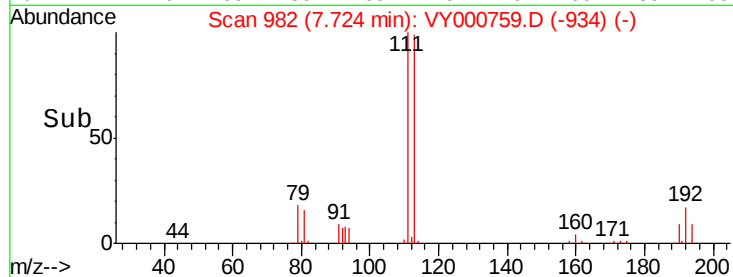
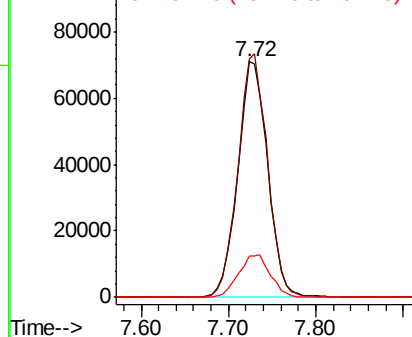
#35
 Dibromofluoromethane
 Concen: 48.719 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: VY000759.D
 Acq: 20 Nov 2019 18:00

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:113 Resp: 168808
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.7 122.5
 192 19.0 15.0 22.4

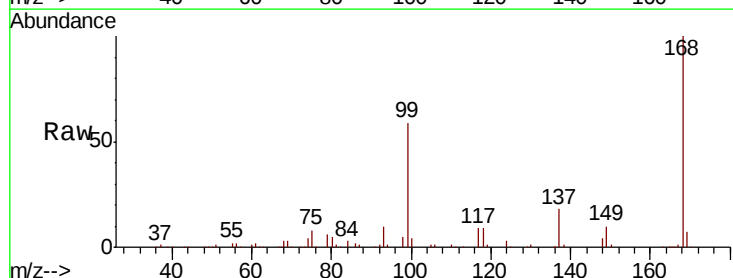


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

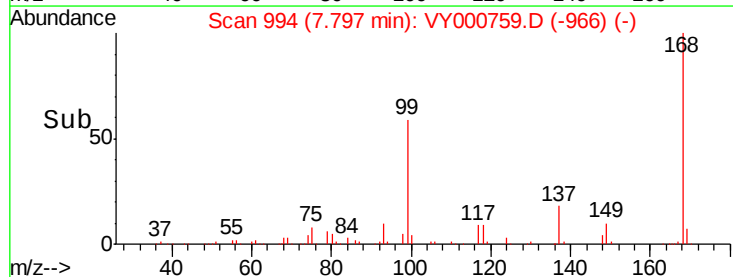
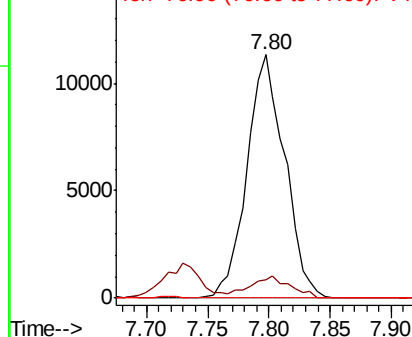


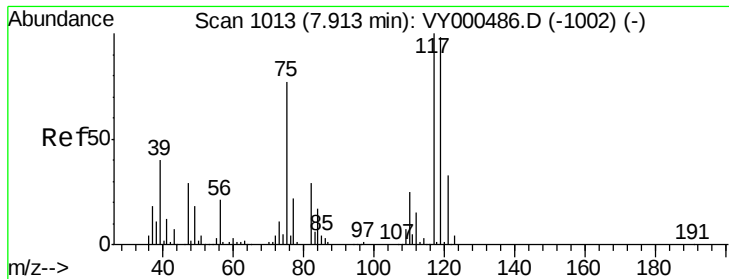
#36
 1,1-Dichloropropene
 Concen: 4.377 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000759.D
 Acq: 20 Nov 2019 18:00

Tgt Ion: 75 Resp: 24424
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.1 54.1#
 77 0.0 25.0 37.6#



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





#38

Carbon Tetrachloride

Concen: 6.042 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.12 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

ClientSampleId :

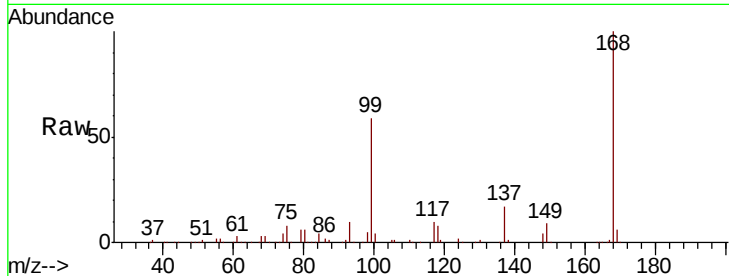
Tot Ion:117 Resp: 32437

Ion Ratio Lower Upper

117 100

119 5.9 78.0 117.0#

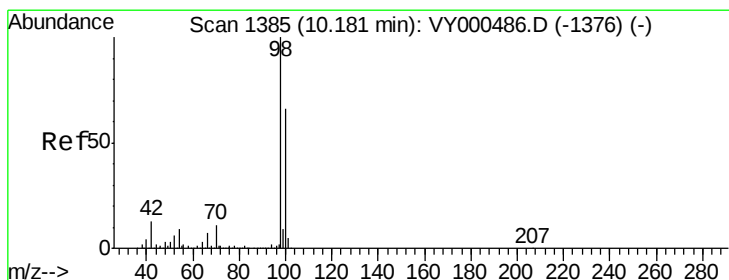
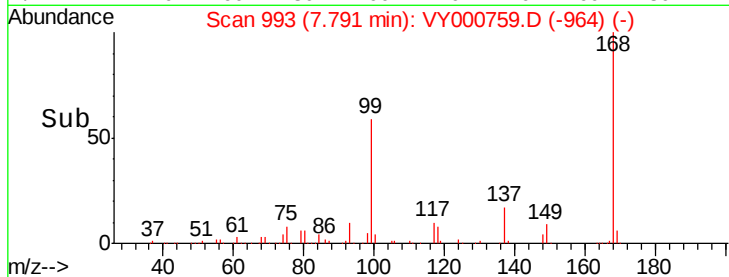
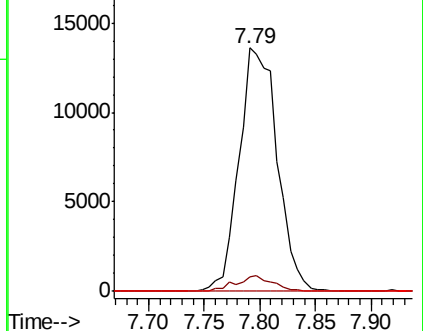
121 0.0 26.6 40.0#



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: 52.359 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000759.D

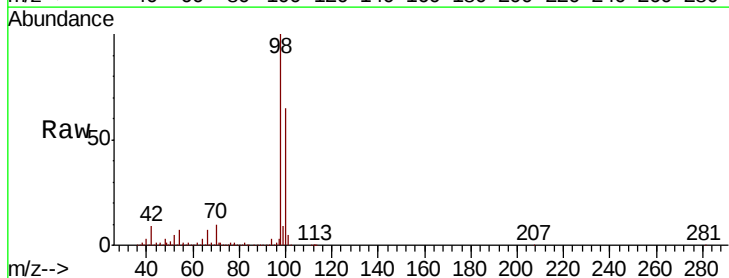
Acq: 20 Nov 2019 18:00

Tgt Ion: 98 Resp: 688398

Ion Ratio Lower Upper

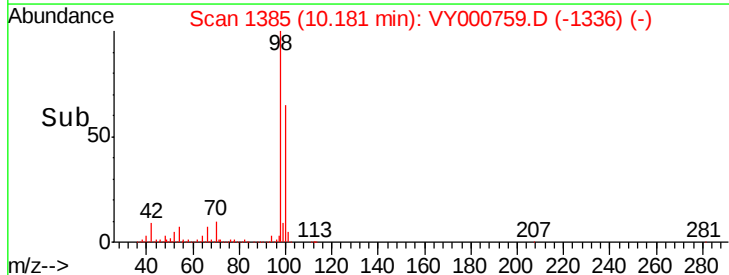
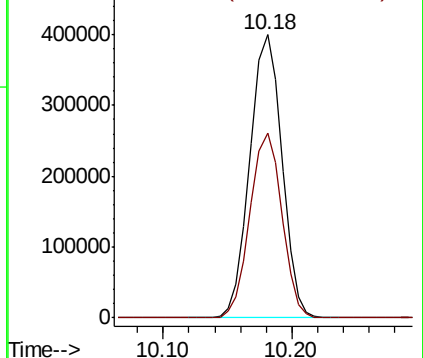
98 100

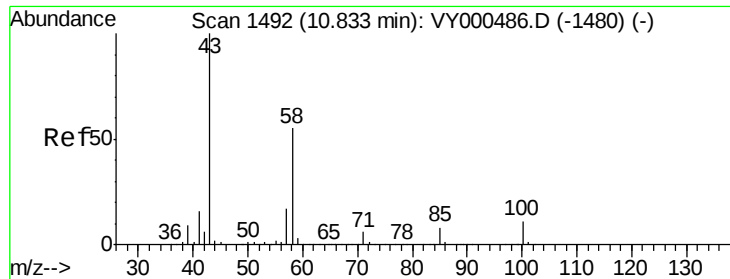
100 65.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#59

2-Hexanone

Concen: 1.354 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.03 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

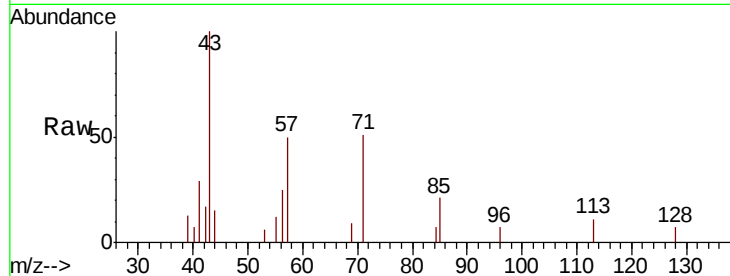
ClientSampled :

Tot Ion: 43 Resp: 3263

Ion Ratio Lower Upper

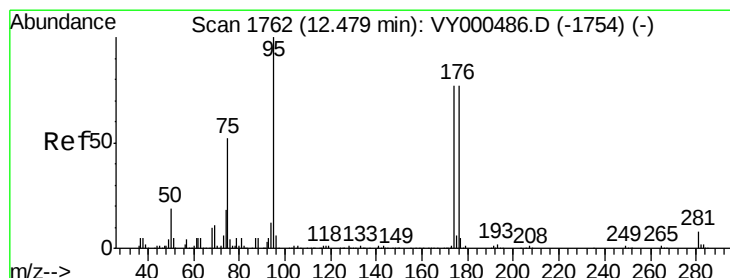
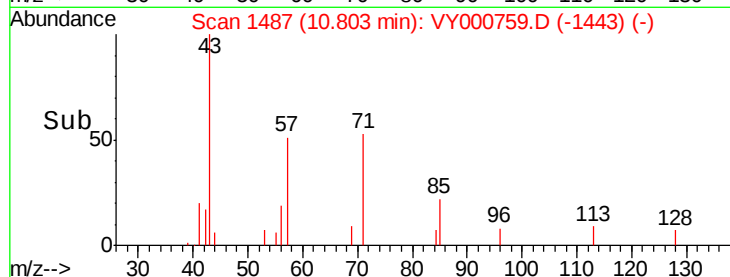
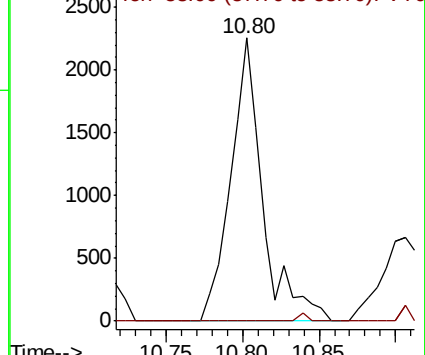
43 100

58 0.0 27.1 81.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#62

4-Bromofluorobenzene

Concen: 47.740 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

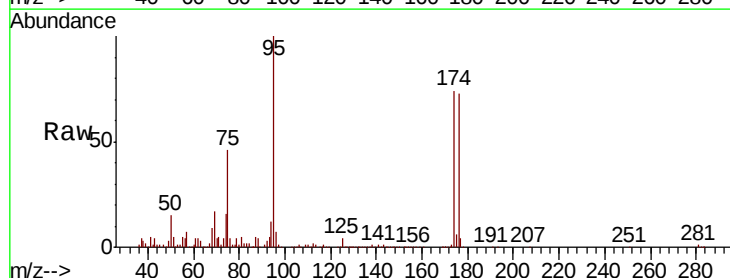
Tgt Ion: 95 Resp: 238950

Ion Ratio Lower Upper

95 100

174 75.1 0.0 161.6

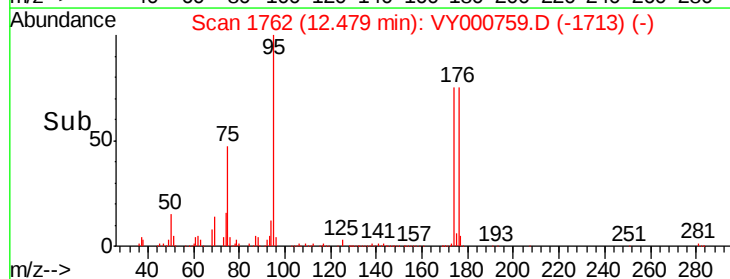
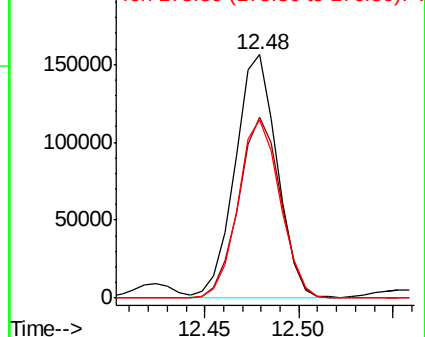
176 74.1 0.0 157.8

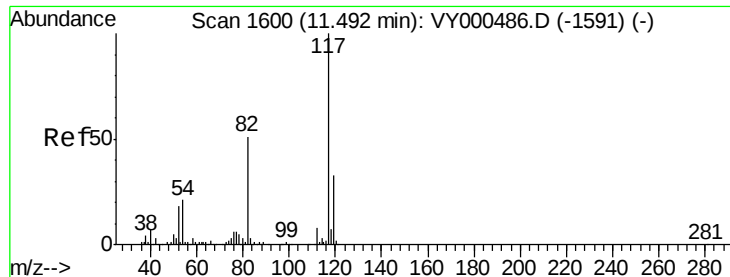


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

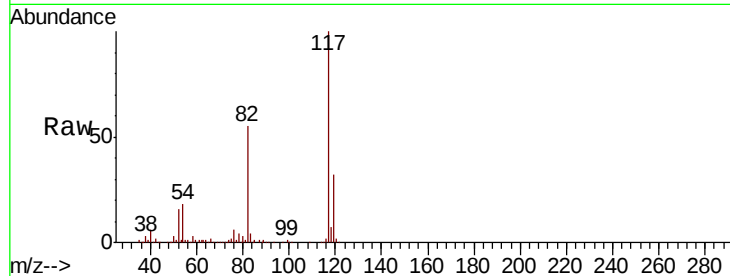




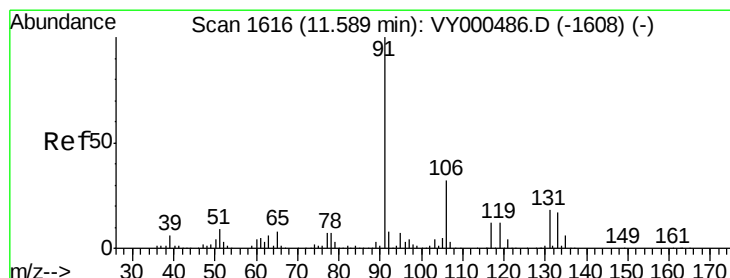
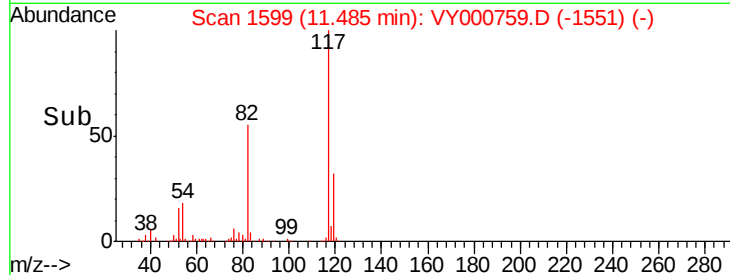
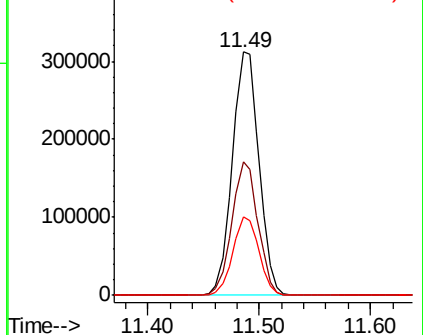
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000759.D
Acq: 20 Nov 2019 18:00

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	40.8	61.2
119	32.2	26.2	39.2

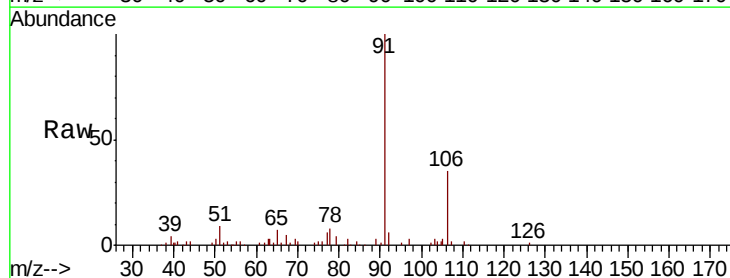


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

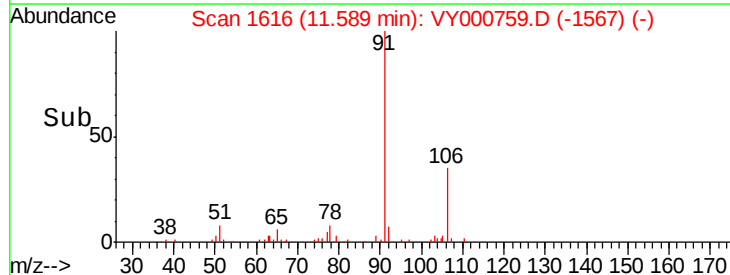
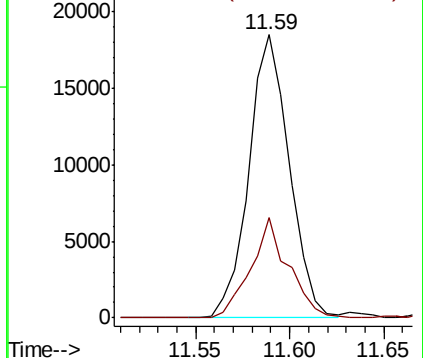


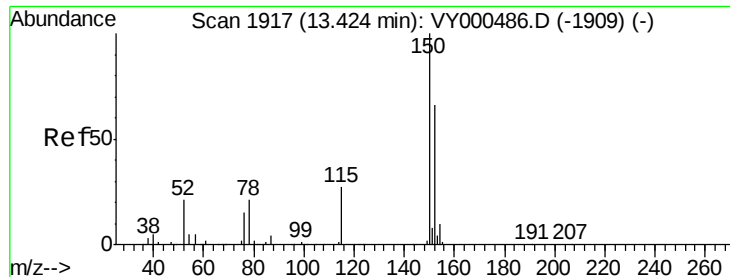
#67
Ethyl Benzene
Concen: 1.429 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VY000759.D
Acq: 20 Nov 2019 18:00

Tgt Ion	Ratio	Lower	Upper
91	100		
106	35.2	25.4	38.0



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1916

Delta R.T. -0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

ClientSampleId :

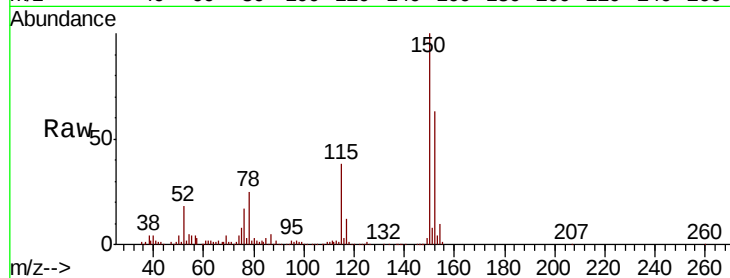
Tot Ion:152 Resp: 236679

Ion Ratio Lower Upper

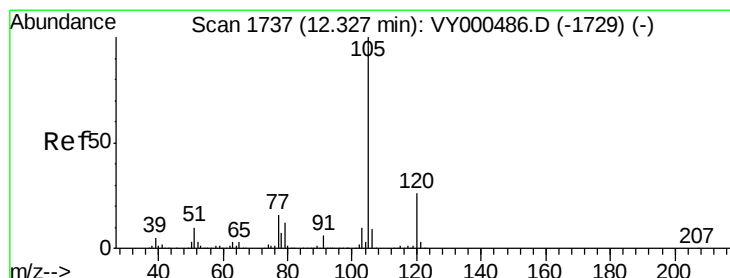
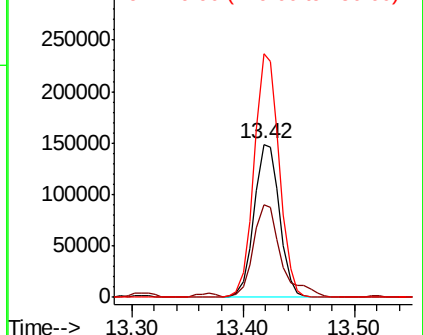
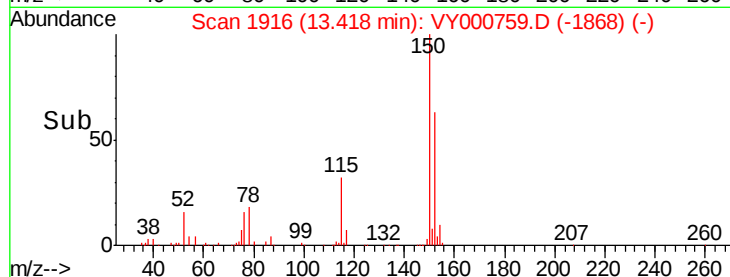
152 100

115 65.9 29.1 87.4

150 156.4 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.924 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VY000759.D

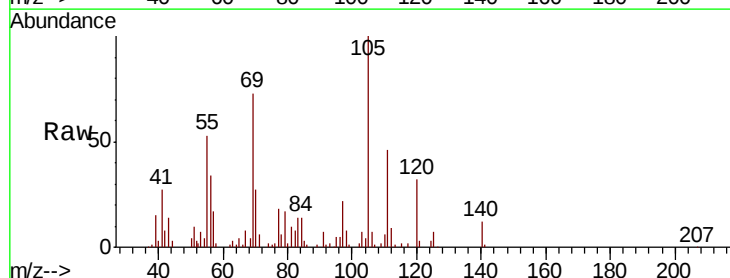
Acq: 20 Nov 2019 18:00

Tgt Ion:105 Resp: 33657

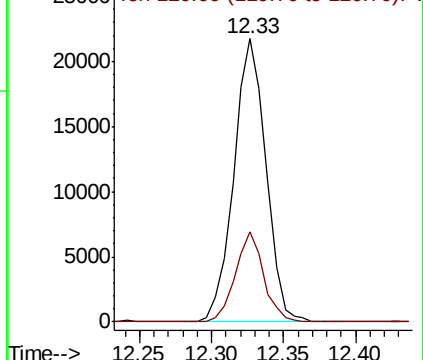
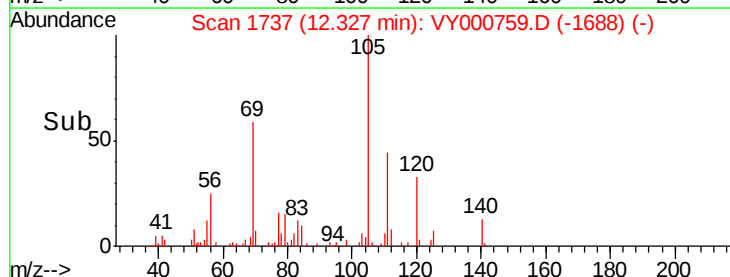
Ion Ratio Lower Upper

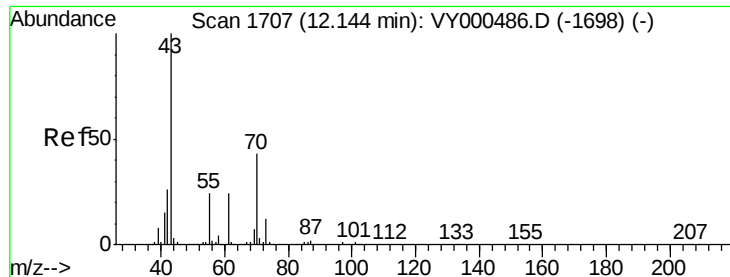
105 100

120 28.1 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 14.033 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.02 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 70300

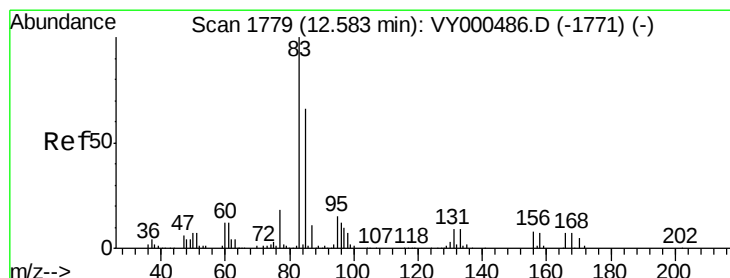
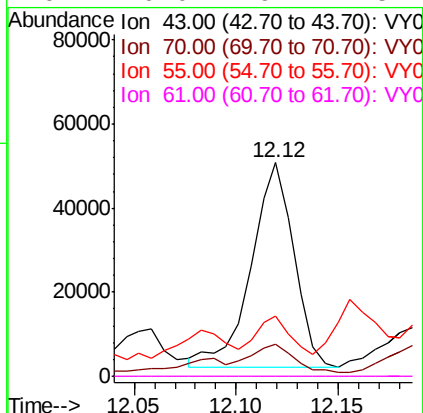
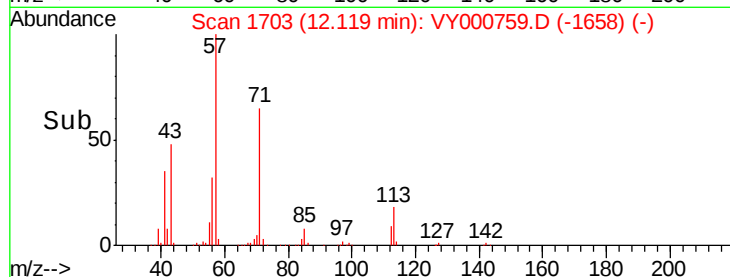
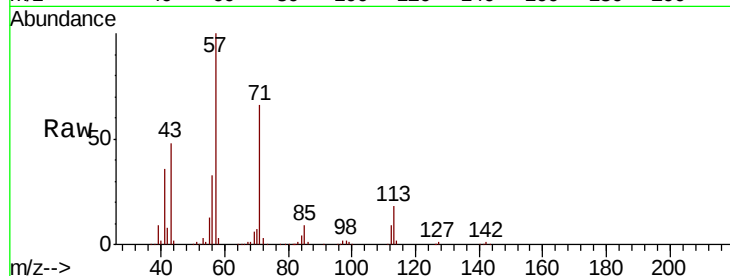
Ion Ratio Lower Upper

43 100

70 14.1 33.1 49.7#

55 13.7 18.0 27.0#

61 0.0 19.1 28.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.508 ug/l

RT: 12.54 min Scan# 1772

Delta R.T. -0.04 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

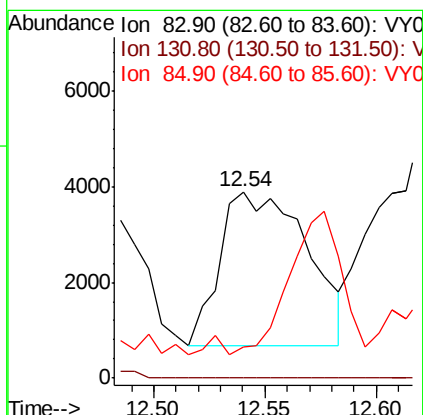
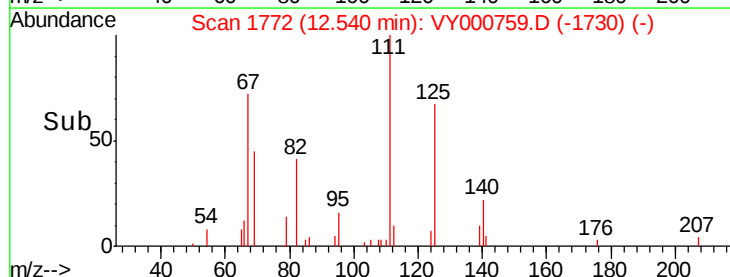
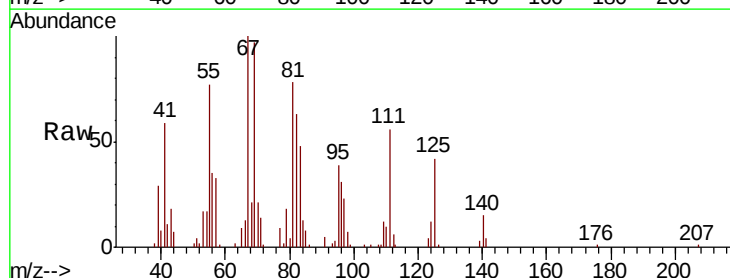
Tgt Ion: 83 Resp: 8687

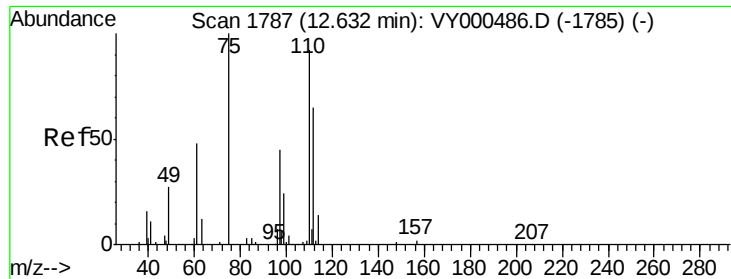
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.3 96.9#





#76

1,2,3-Trichloropropane

Concen: 41.937 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

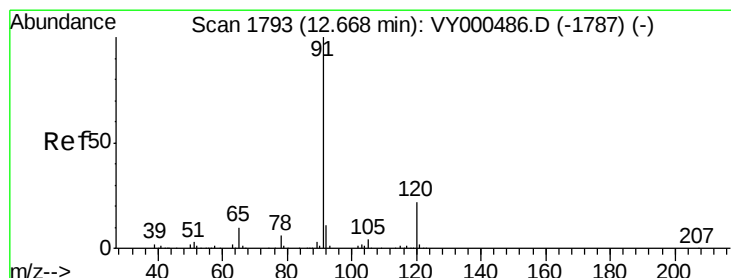
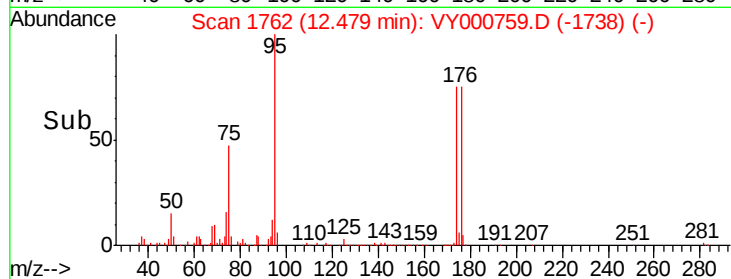
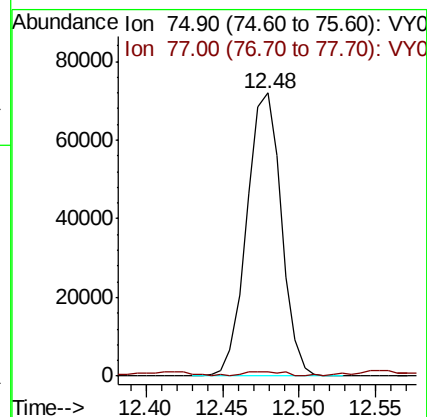
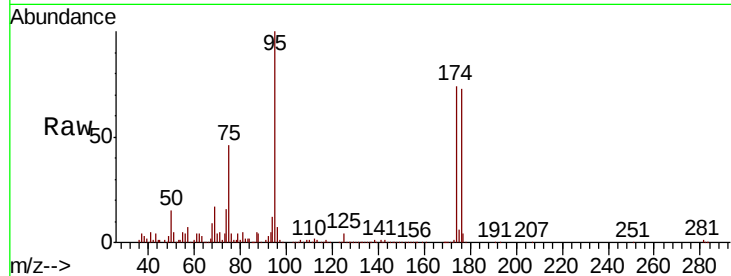
ClientSampleId :

Tot Ion: 75 Resp: 113016

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#78

n-propylbenzene

Concen: 6.277 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.00 min

Lab File: VY000759.D

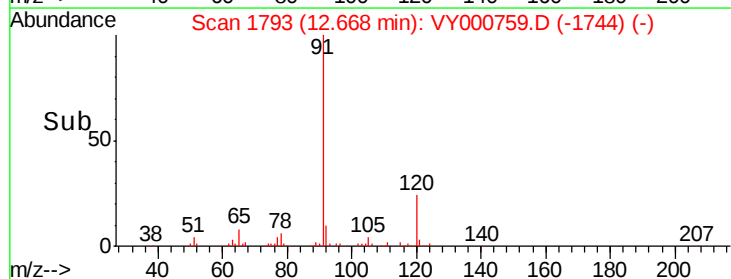
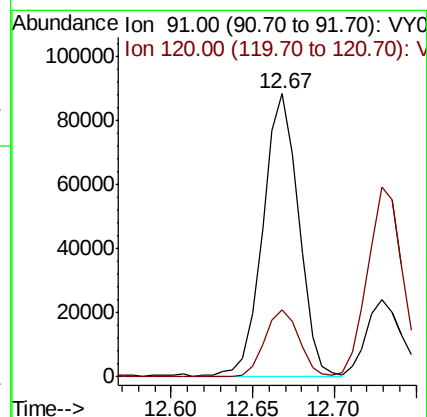
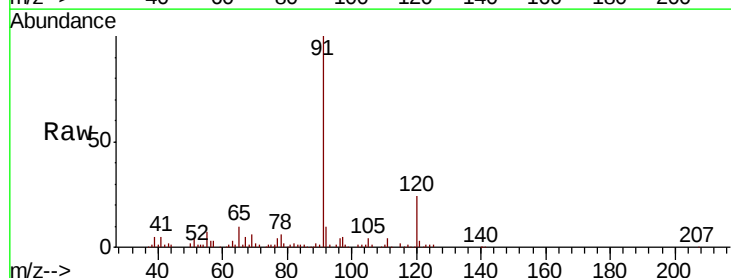
Acq: 20 Nov 2019 18:00

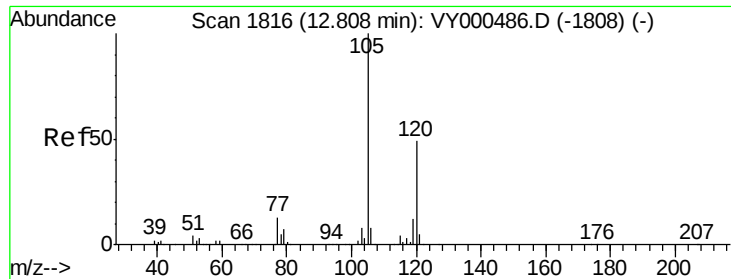
Tgt Ion: 91 Resp: 132485

Ion Ratio Lower Upper

91 100

120 23.2 11.4 34.1

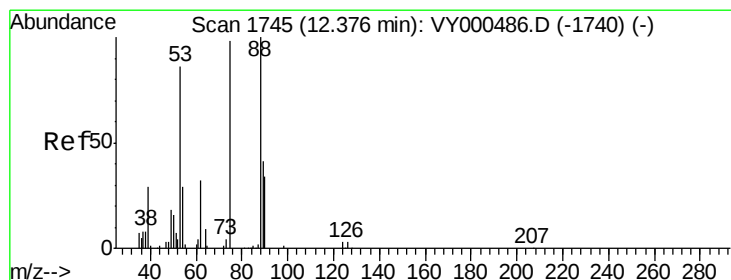
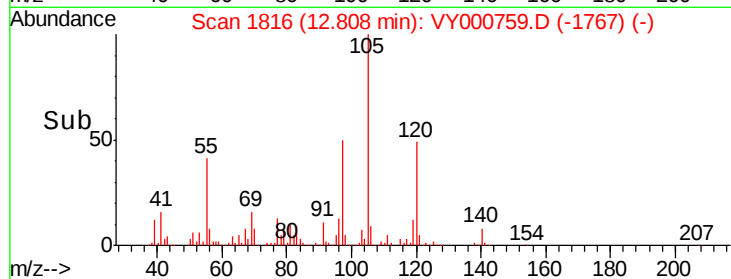
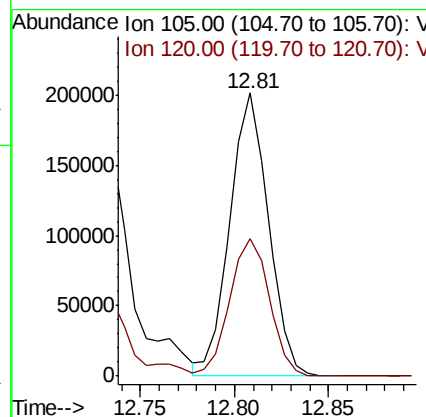
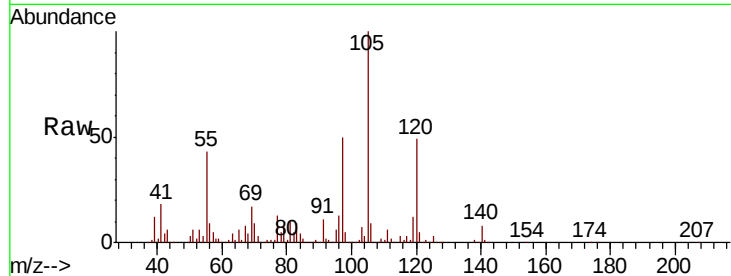




#80
 1,3,5-Trimethylbenzene
 Concen: 19.623 ug/l
 RT: 12.81 min Scan# 1816
 Delta R.T. -0.00 min
 Lab File: VY000759.D
 Acq: 20 Nov 2019 18:00

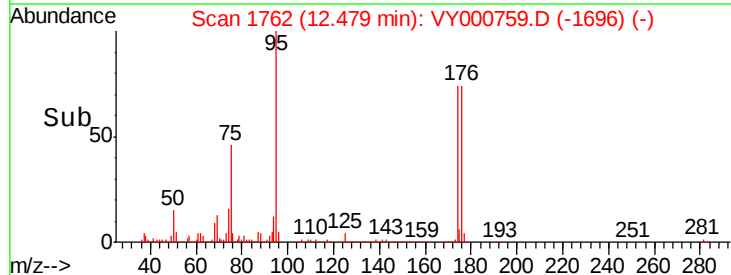
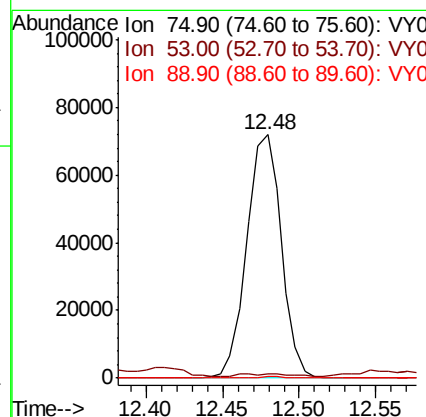
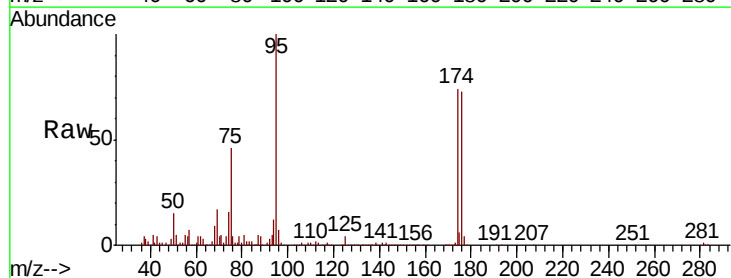
Instrument :
 MSVOA_Y
 ClientSampleId :

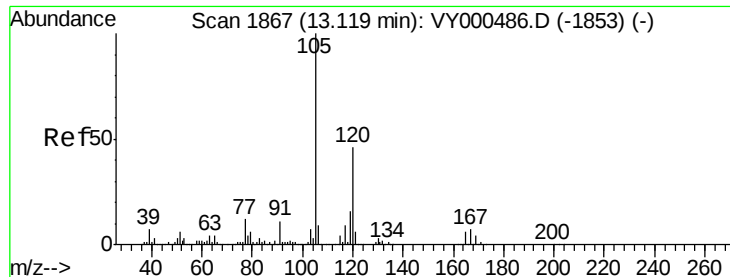
Tot Ion:105 Resp: 285873
 Ion Ratio Lower Upper
 105 100
 120 50.2 24.9 74.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.028 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY000759.D
 Acq: 20 Nov 2019 18:00

Tgt Ion: 75 Resp: 113016
 Ion Ratio Lower Upper
 75 100
 53 0.7 73.2 109.8#
 89 0.3 35.9 53.9#





#84

1,2,4-Trimethylbenzene

Concen: 61.343 ug/l

RT: 13.11 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VY000759.D

Acq: 20 Nov 2019 18:00

Instrument :

MSVOA_Y

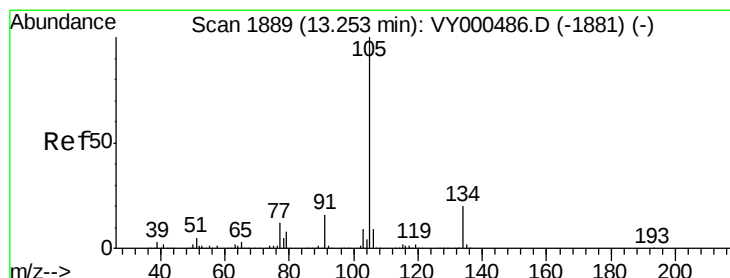
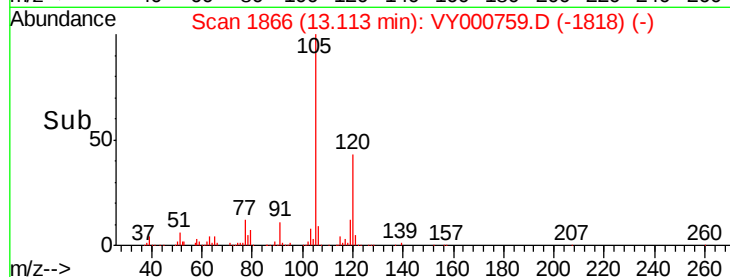
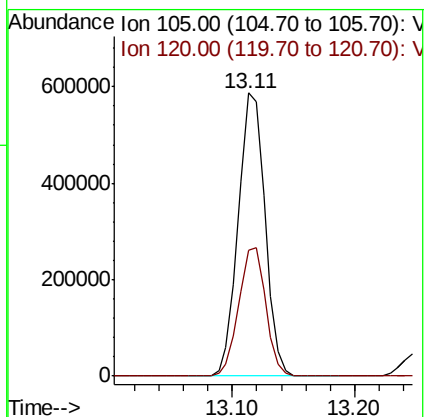
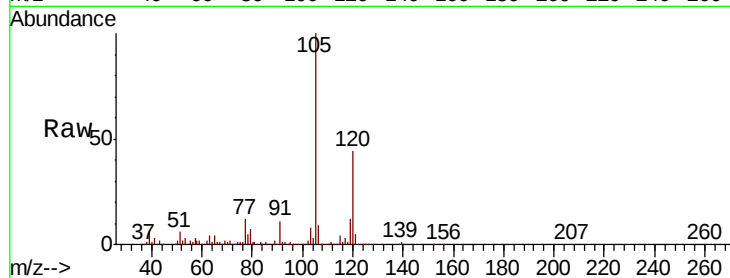
ClientSampleId :

Tot Ion:105 Resp: 889805

Ion Ratio Lower Upper

105 100

120 45.8 23.3 69.9



#85

sec-Butylbenzene

Concen: 3.818 ug/l

RT: 13.25 min Scan# 1888

Delta R.T. -0.01 min

Lab File: VY000759.D

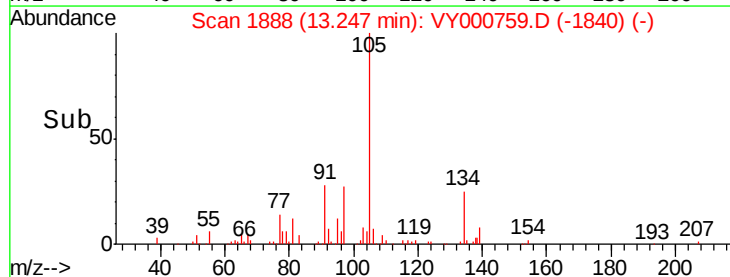
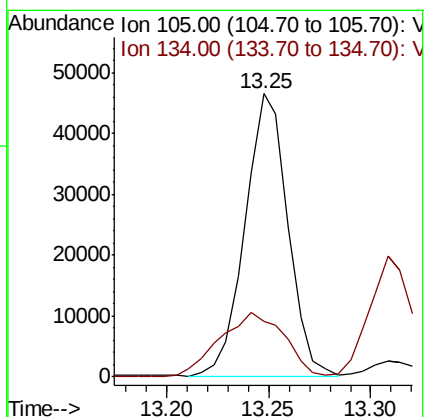
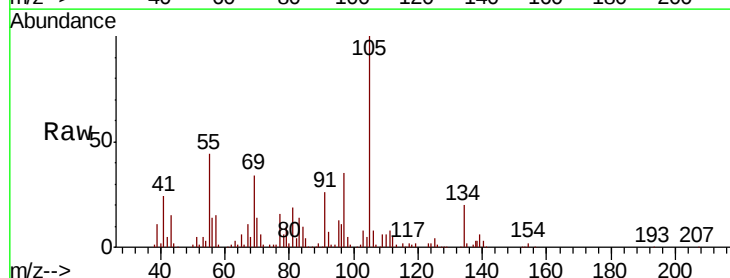
Acq: 20 Nov 2019 18:00

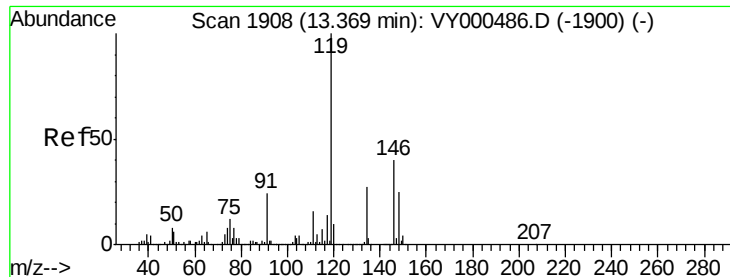
Tgt Ion:105 Resp: 67668

Ion Ratio Lower Upper

105 100

134 34.3 10.1 30.1#

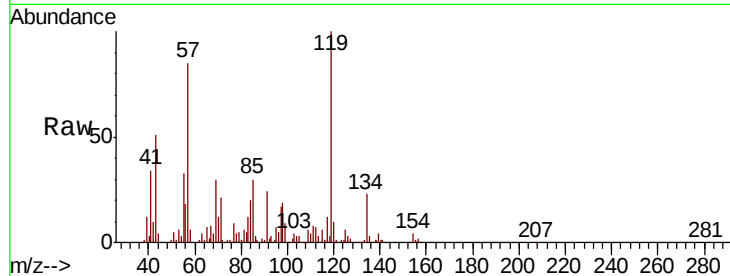




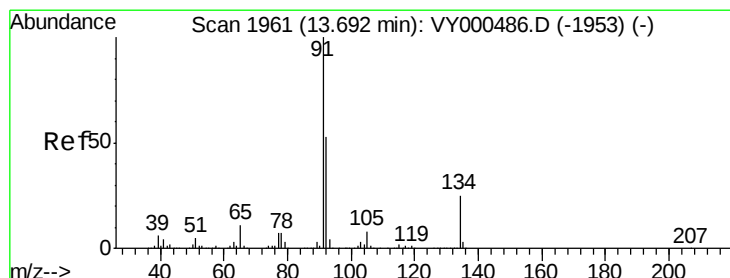
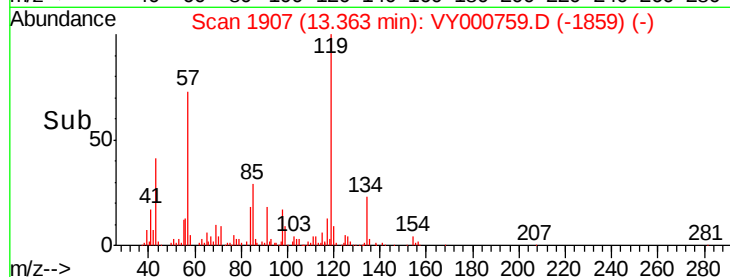
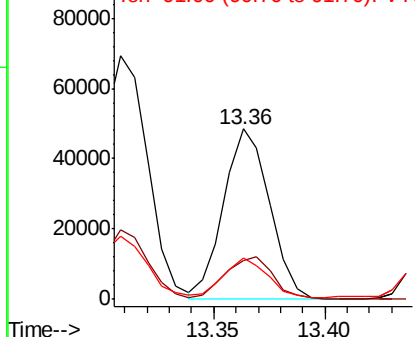
#86
 p-Isopropyltoluene
 Concen: 4.393 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.01 min
 Lab File: VY000759.D
 Acq: 20 Nov 2019 18:00

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion	119	Resp	69389
Ion Ratio	100	Lower	Upper
119	100		
134	26.3	13.6	40.8
91	22.0	12.0	36.1

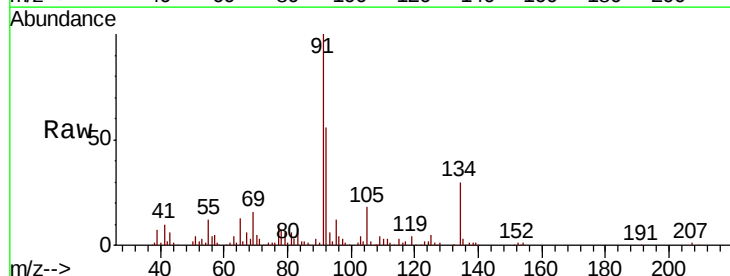


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

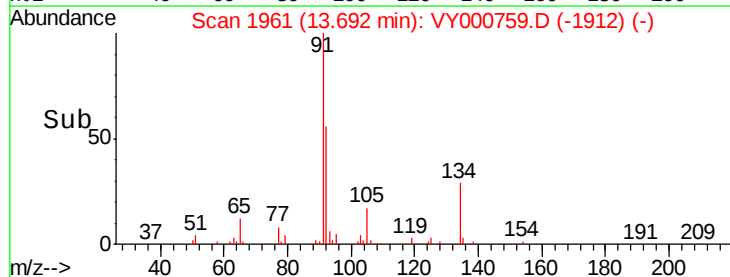
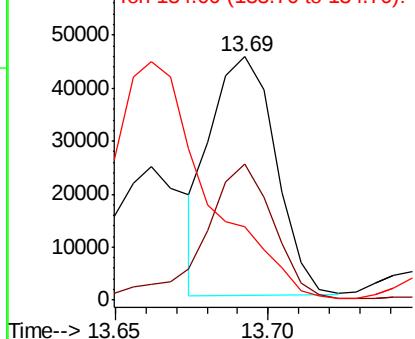


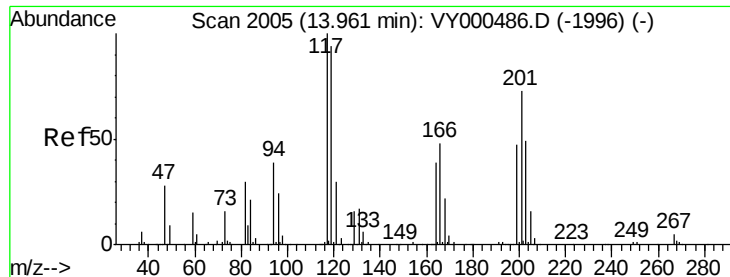
#89
 n-Butylbenzene
 Concen: 4.244 ug/l
 RT: 13.69 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: VY000759.D
 Acq: 20 Nov 2019 18:00

Tgt Ion	91	Resp	66115
Ion Ratio	100	Lower	Upper
91	100		
92	60.6	26.8	80.3
134	0.0	12.9	38.7#



Abundance Ion 91.00 (90.70 to 91.70): VY0
 Ion 92.00 (91.70 to 92.70): VY0
 Ion 134.00 (133.70 to 134.70): V

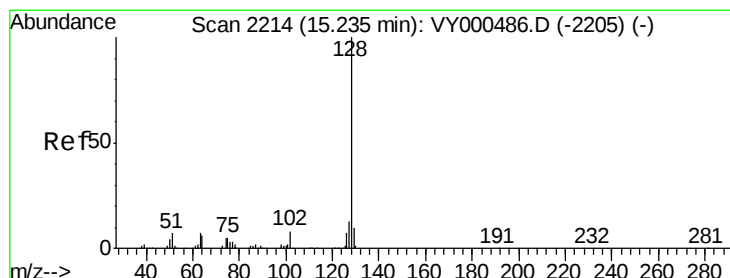
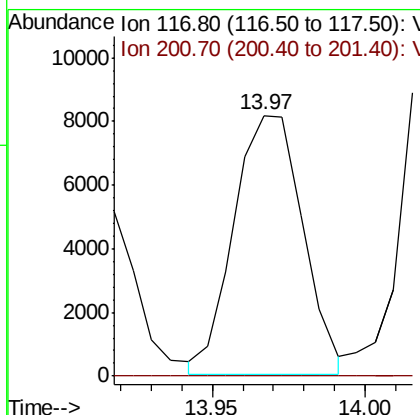
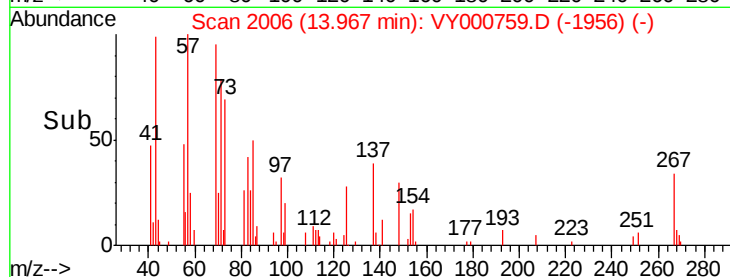
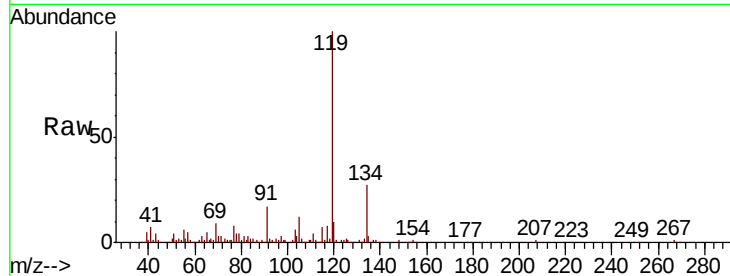




#90
Hexachloroethane
Concen: 4.369 ug/l
RT: 13.97 min Scan# 2006
Delta R.T. 0.01 min
Lab File: VY000759.D
Acq: 20 Nov 2019 18:00

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 12757
Ion Ratio Lower Upper
117 100
201 0.0 35.8 107.3#



#95
Naphthalene
Concen: 5.014 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. -0.01 min
Lab File: VY000759.D
Acq: 20 Nov 2019 18:00

Tgt Ion:128 Resp: 53424
Ion Ratio Lower Upper
128 100
127 13.8 9.8 14.6
129 12.5 8.7 13.1

