

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012420\
 Data File : VY001381.D
 Acq On : 24 Jan 2020 14:50
 Operator : SY/MD
 Sample : L1016-10
 Misc : 5.37G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 25 03:49:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	167947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	314577	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	271092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	104609	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	99644	54.52	ug/l	0.00
Spiked Amount						
			Recovery	=	109.04%	
35) Dibromofluoromethane	7.74	113	87593	47.44	ug/l	0.00
Spiked Amount						
			Recovery	=	94.88%	
50) Toluene-d8	10.19	98	366303	51.07	ug/l	0.00
Spiked Amount						
			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.49	95	124455	43.57	ug/l	0.00
Spiked Amount						
			Recovery	=	87.14%	

Target Compounds

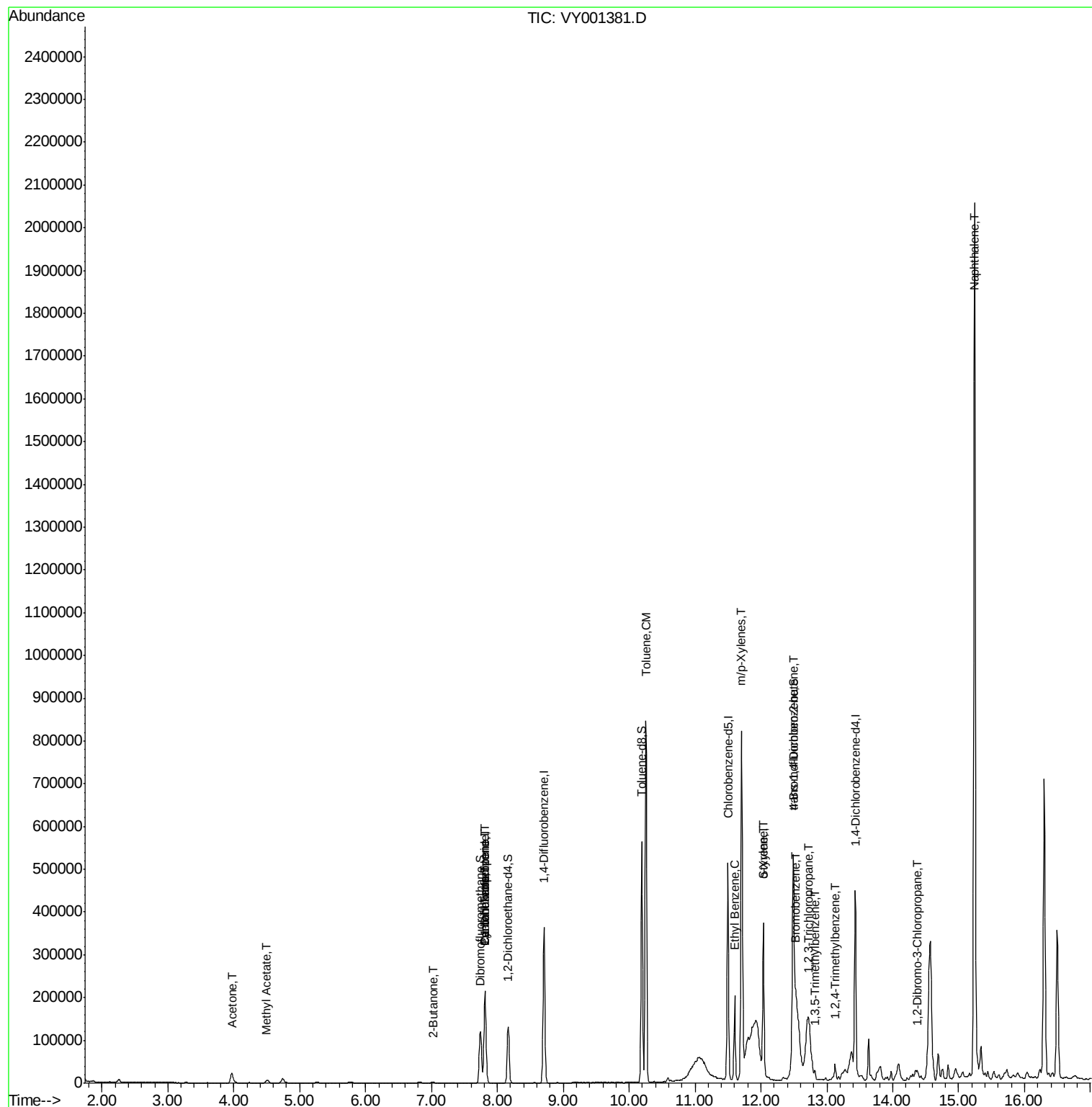
					Qvalue
11) Tert butyl alcohol	5.00	59	451	Below Cal	# 74
16) Acetone	3.97	43	42464	83.147	ug/l 92
18) Methyl Acetate	4.50	43	14638	9.498	ug/l 95
20) Methylene Chloride	4.74	84	7256	Below Cal	93
25) 2-Butanone	7.02	43	2046	2.572	ug/l # 84
31) Cyclohexane	7.82	56	3883	1.099	ug/l # 1
36) 1,1-Dichloropropene	7.81	75	13698	4.609	ug/l # 50
38) Carbon Tetrachloride	7.81	117	16957	6.402	ug/l # 16
52) Toluene	10.25	92	350516	62.051	ug/l 99
67) Ethyl Benzene	11.60	91	137466	13.054	ug/l 100
68) m/p-Xylenes	11.70	106	248553	63.195	ug/l 99
69) o-Xylene	12.03	106	92052	24.329	ug/l 100
70) Styrene	12.04	104	6704	1.010	ug/l # 1
76) 1,2,3-Trichloropropane	12.73	75	5666	4.495	ug/l # 100
77) Bromobenzene	12.53	156	322892	176.608	ug/l # 1
80) 1,3,5-Trimethylbenzene	12.82	105	7418	1.077	ug/l 97
81) trans-1,4-Dichloro-2-buten	12.49	75	71996	108.084	ug/l # 17
84) 1,2,4-Trimethylbenzene	13.13	105	17966	2.597	ug/l 99
92) 1,2-Dibromo-3-Chloropropan	14.37	75	889	2.914	ug/l # 4
95) Naphthalene	15.24	128	1641151	329.311	ug/l 100

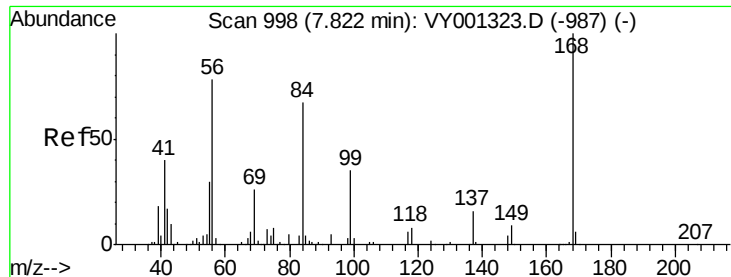
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

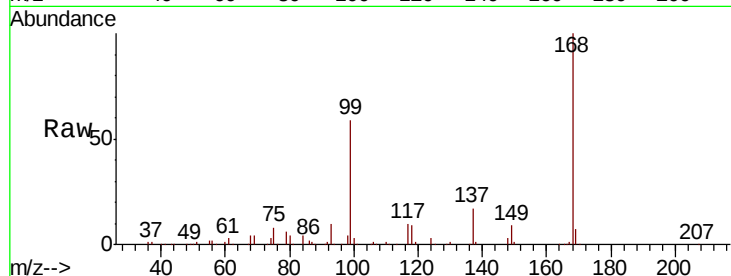
ClientSampleId :

Tot Ion:168 Resp: 167947

Ion Ratio Lower Upper

168 100

99 59.3 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)

7.82

80000

60000

40000

20000

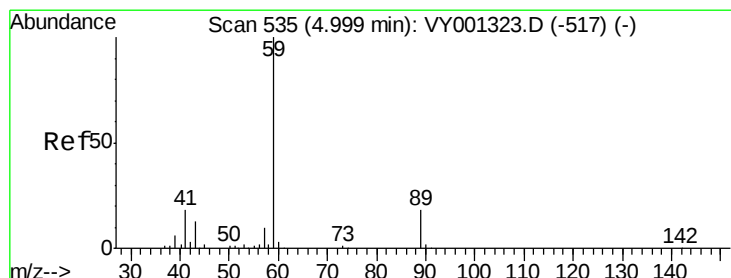
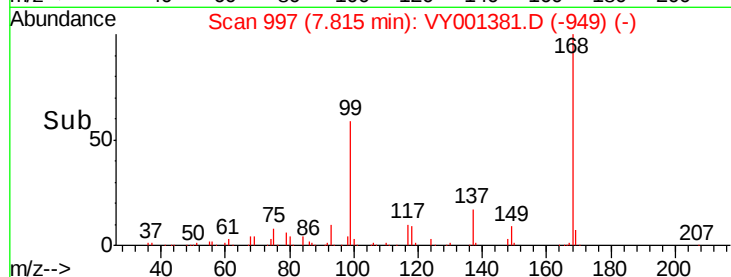
0

Time-->

7.70

7.80

7.90



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. -0.00 min

Lab File: VY001381.D

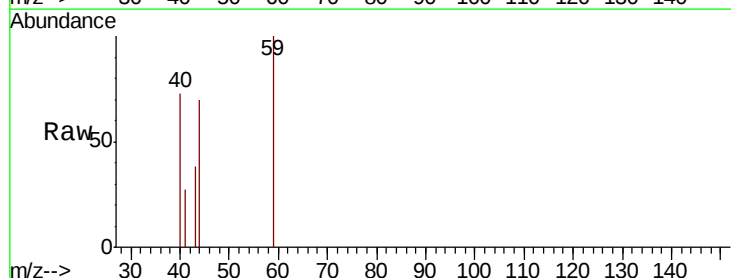
Acq: 24 Jan 2020 14:50

Tgt Ion: 59 Resp: 451

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001323.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY001323.D (-517) (-)

5.00

300

200

100

0

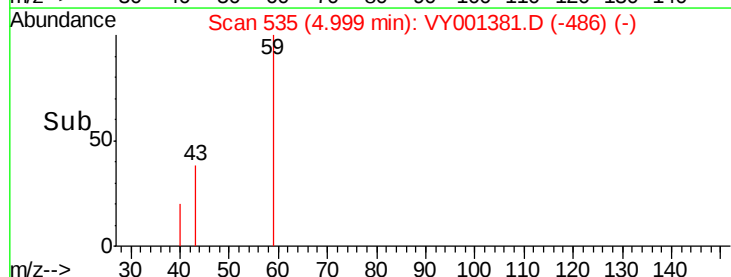
Time-->

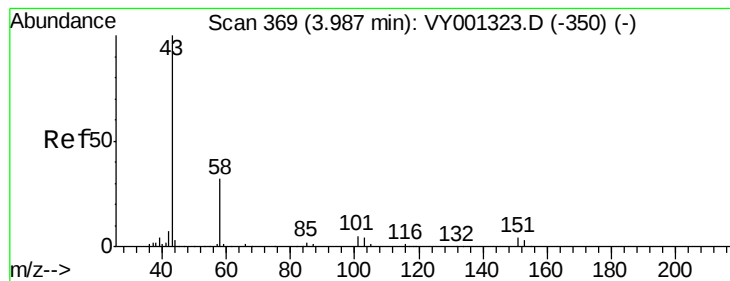
4.96

4.98

5.00

5.02





#16

Acetone

Concen: 83.147 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.02 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

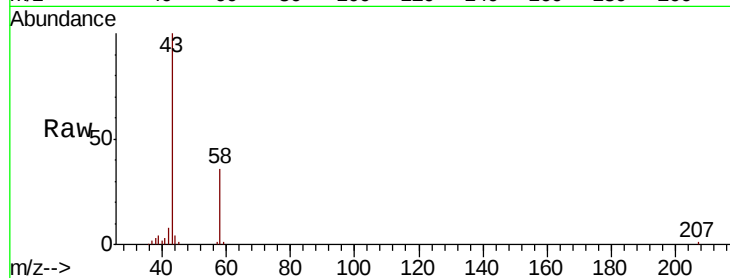
ClientSampleId :

Tot Ion: 43 Resp: 42464

Ion Ratio Lower Upper

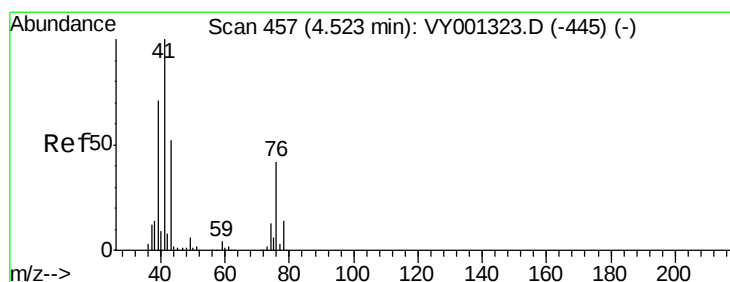
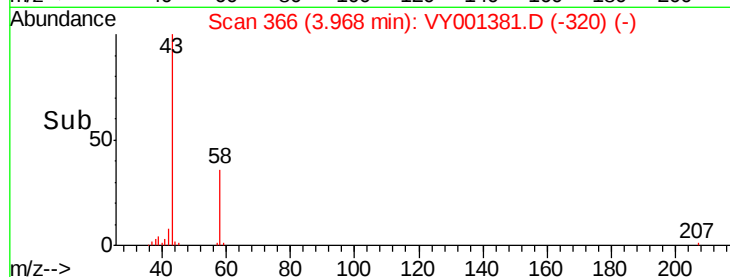
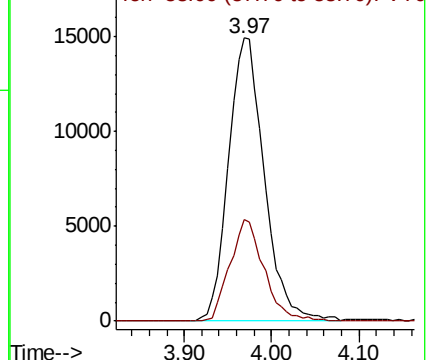
43 100

58 36.1 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY001381.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VY001381.D (-366) (-)



#18

Methyl Acetate

Concen: 9.498 ug/l

RT: 4.50 min Scan# 453

Delta R.T. -0.02 min

Lab File: VY001381.D

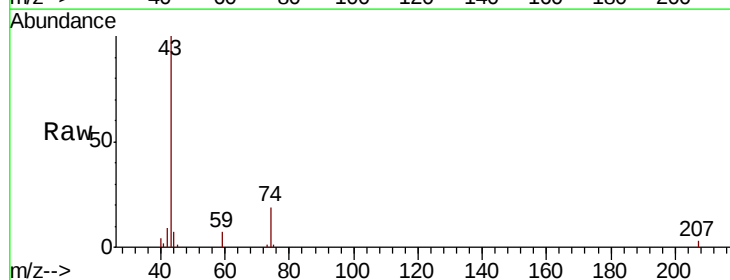
Acq: 24 Jan 2020 14:50

Tgt Ion: 43 Resp: 14638

Ion Ratio Lower Upper

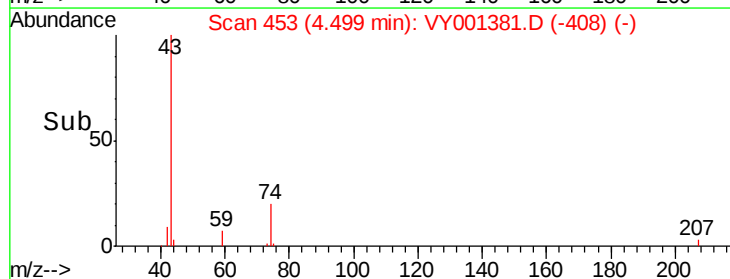
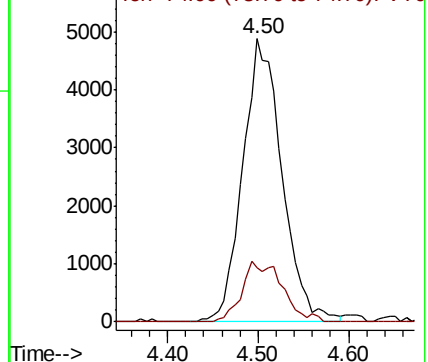
43 100

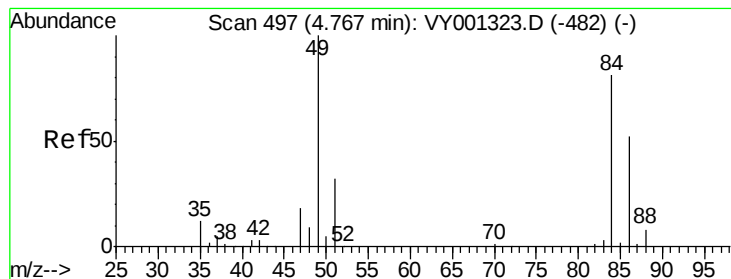
74 21.8 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VY001381.D (-453) (-)

Ion 74.00 (73.70 to 74.70): VY001381.D (-453) (-)





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.74 min Scan# 493

Delta R.T. -0.02 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion: 84 Resp: 7256

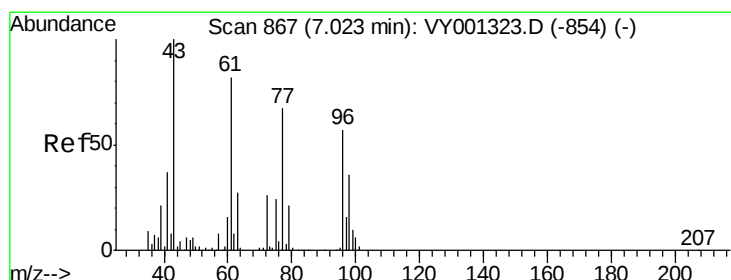
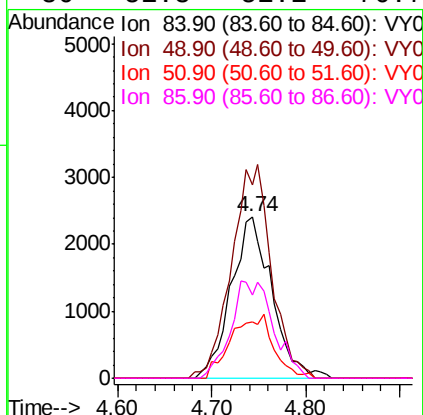
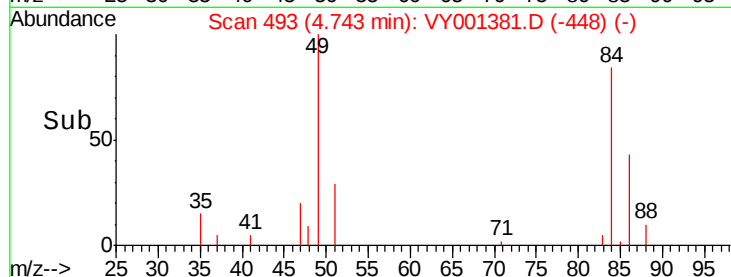
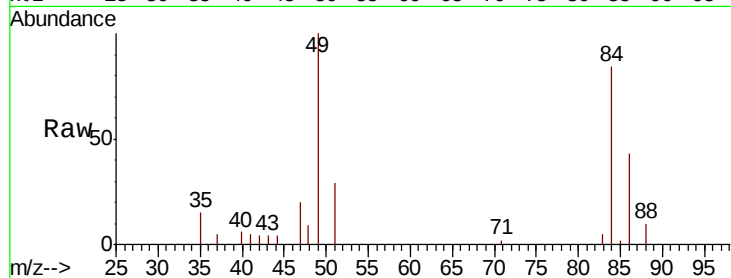
Ion Ratio Lower Upper

84 100

49 119.6 98.3 147.5

51 34.5 31.6 47.4

86 51.8 51.1 76.7



#25

2-Butanone

Concen: 2.572 ug/l

RT: 7.02 min Scan# 866

Delta R.T. -0.01 min

Lab File: VY001381.D

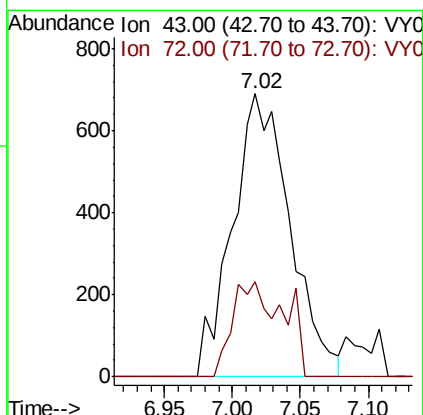
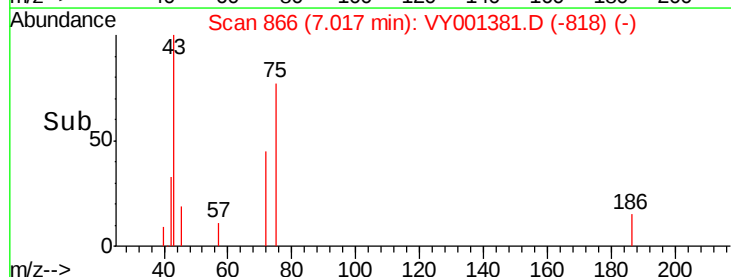
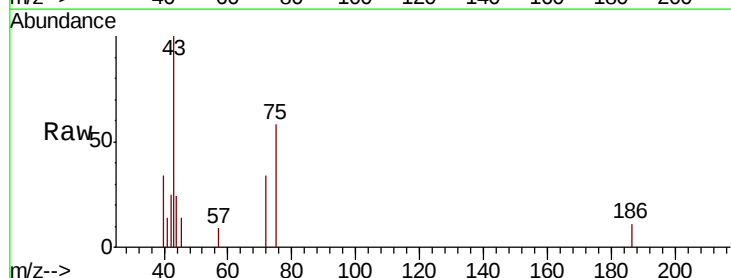
Acq: 24 Jan 2020 14:50

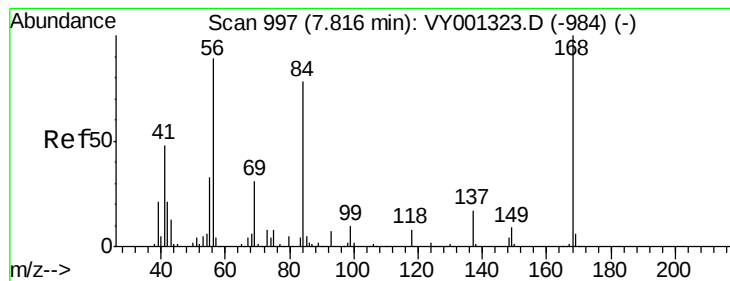
Tgt Ion: 43 Resp: 2046

Ion Ratio Lower Upper

43 100

72 33.8 20.6 31.0#





#31

Cyclohexane

Concen: 1.099 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.00 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :
MSVOA_Y
ClientSampleId :

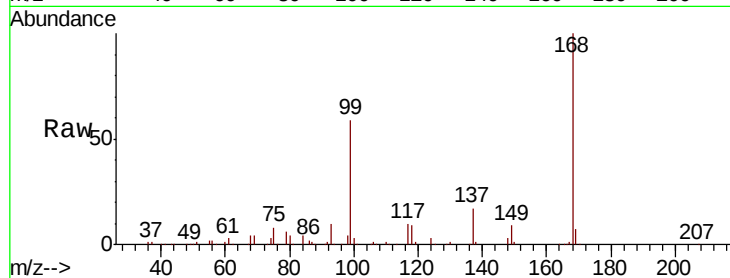
Tot Ion: 56 Resp: 3883

Ion Ratio Lower Upper

56 100

69 161.8 27.6 41.4#

84 178.0 69.7 104.5#

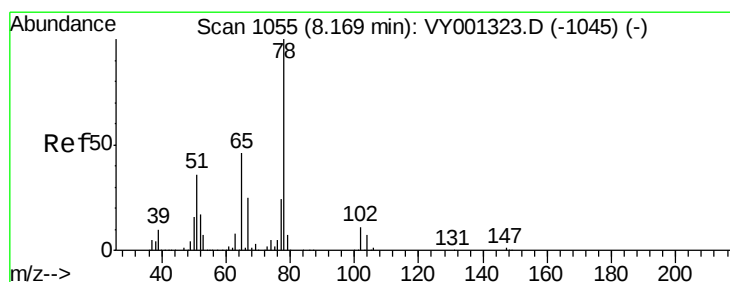
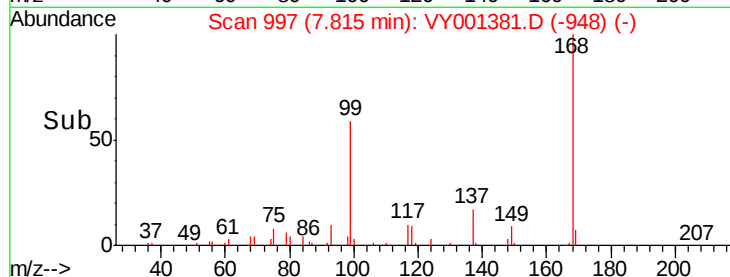
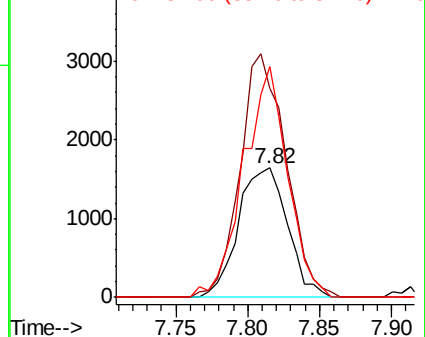


Abundance

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: 54.525 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001381.D

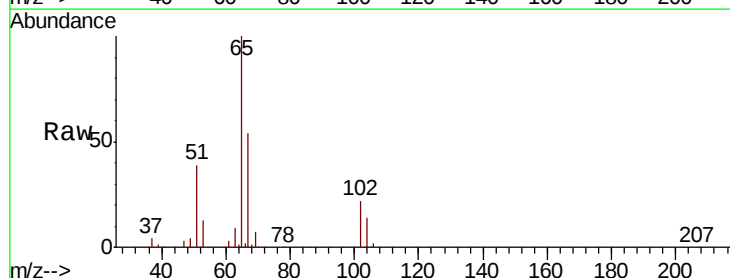
Acq: 24 Jan 2020 14:50

Tgt Ion: 65 Resp: 99644

Ion Ratio Lower Upper

65 100

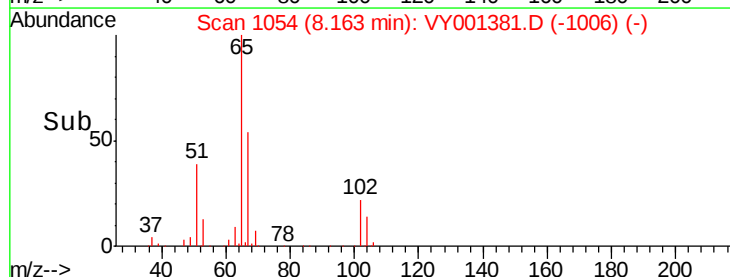
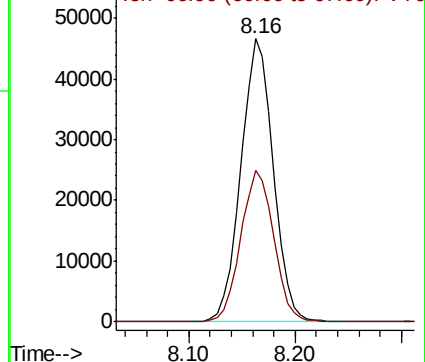
67 54.4 0.0 108.6

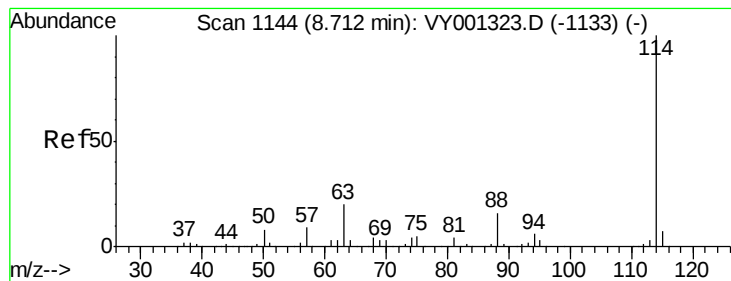


Abundance

Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

ClientSampleId :

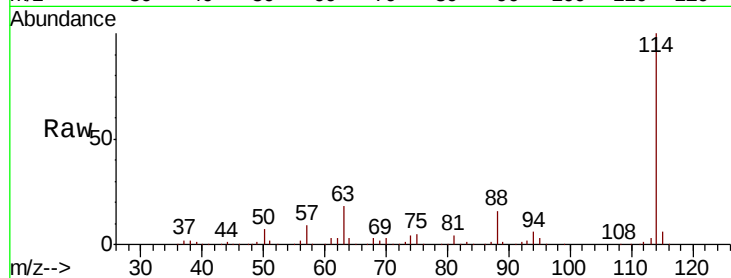
Tot Ion:114 Resp: 314577

Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.8

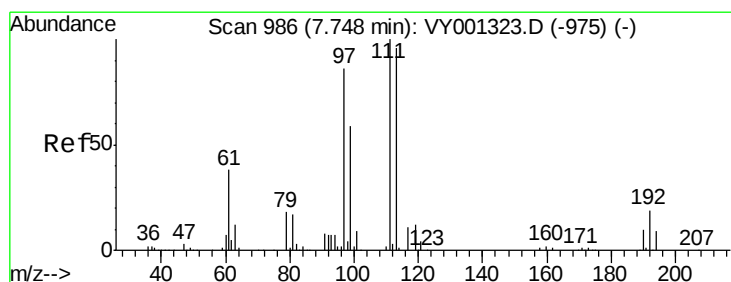
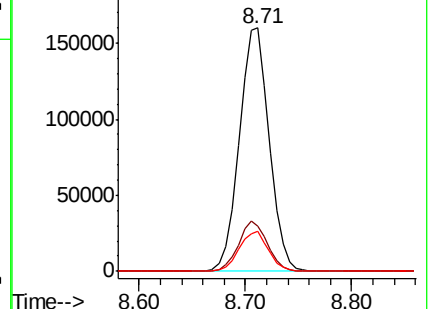
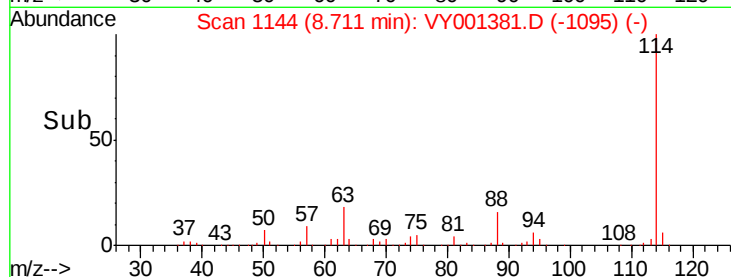
88 16.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 47.443 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

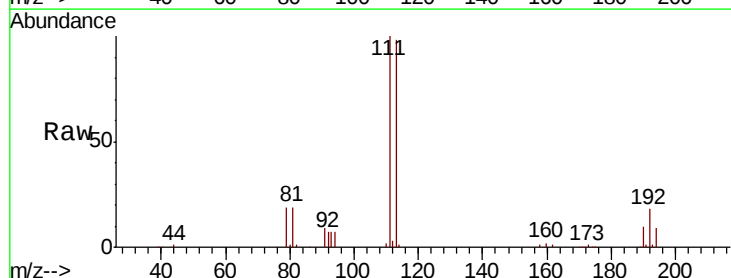
Tgt Ion:113 Resp: 87593

Ion Ratio Lower Upper

113 100

111 104.4 82.8 124.2

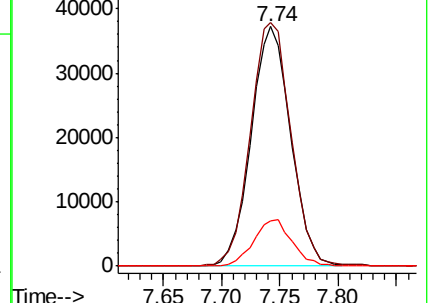
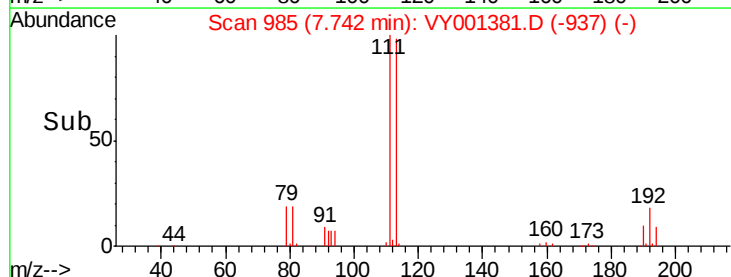
192 18.9 15.5 23.3

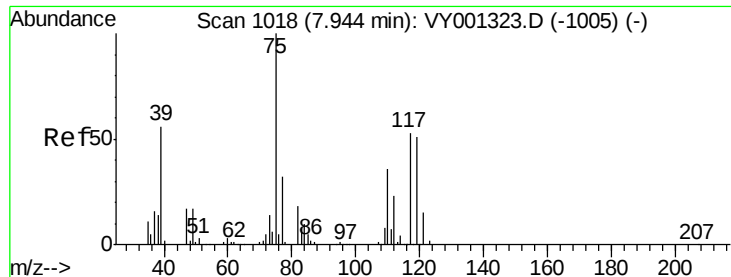


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

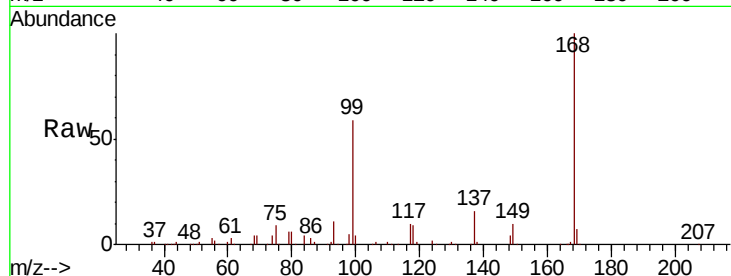




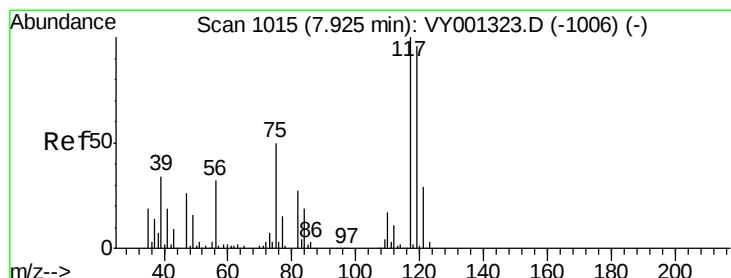
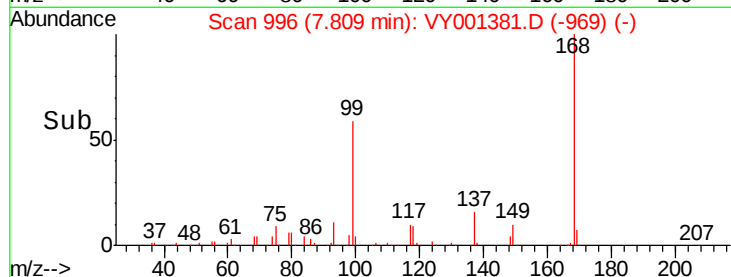
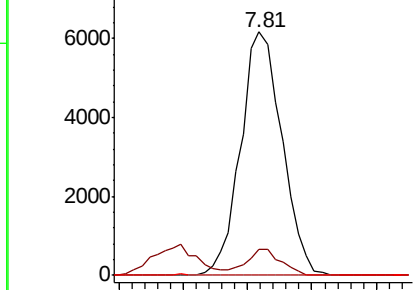
#36
 1,1-Dichloropropene
 Concen: 4.609 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY001381.D
 Acq: 24 Jan 2020 14:50

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	17.6	52.8#
77	0.0	24.7	37.1#

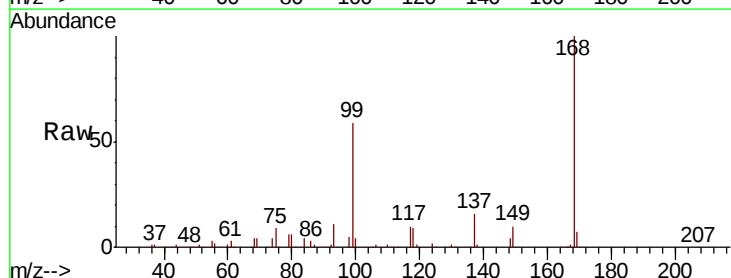


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

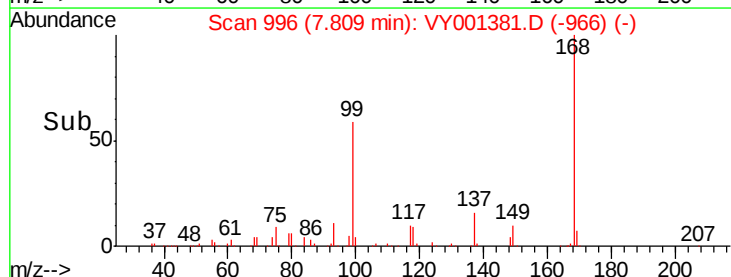
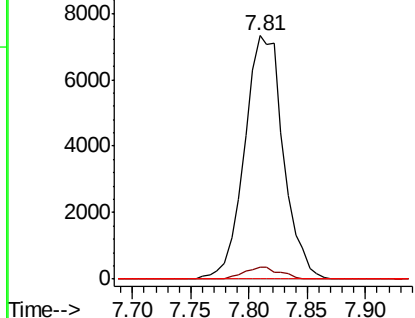


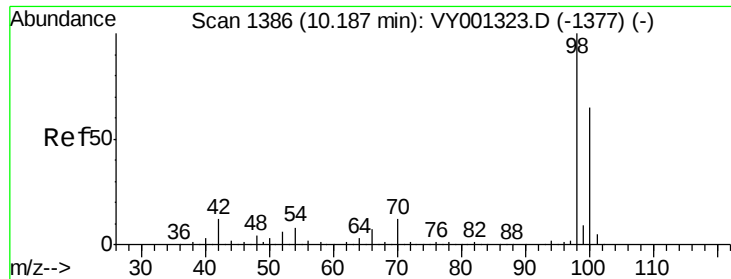
#38
 Carbon Tetrachloride
 Concen: 6.402 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.12 min
 Lab File: VY001381.D
 Acq: 24 Jan 2020 14:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.3	114.5#
121	0.0	23.5	35.3#



Abundance Ion 116.80 (116.50 to 117.50): VY0
 Ion 118.80 (118.50 to 119.50): VY0
 Ion 120.80 (120.50 to 121.50): VY0





#50

Toluene-d8

Concen: 51.065 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

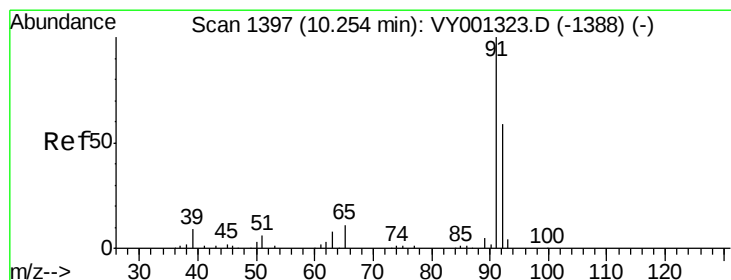
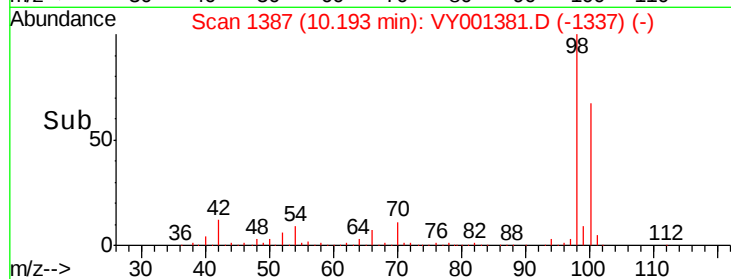
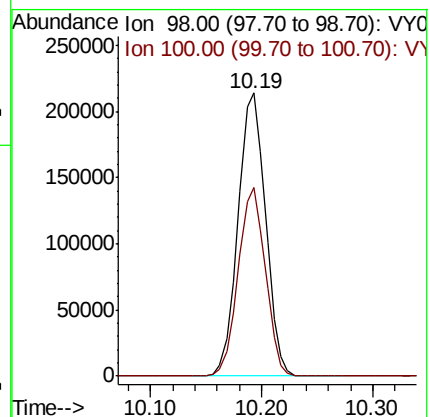
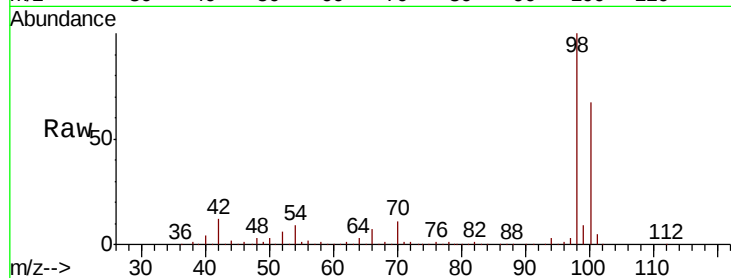
ClientSampleId :

Tot Ion: 98 Resp: 366303

Ion Ratio Lower Upper

98 100

100 65.6 52.6 79.0



#52

Toluene

Concen: 62.051 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VY001381.D

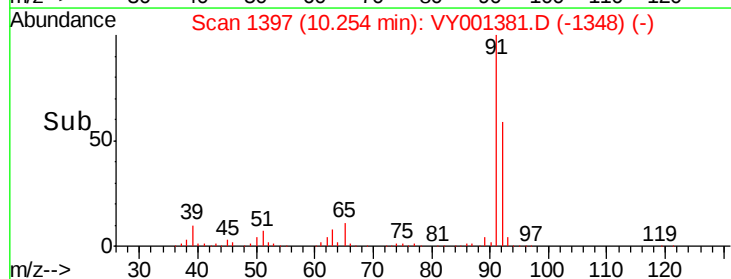
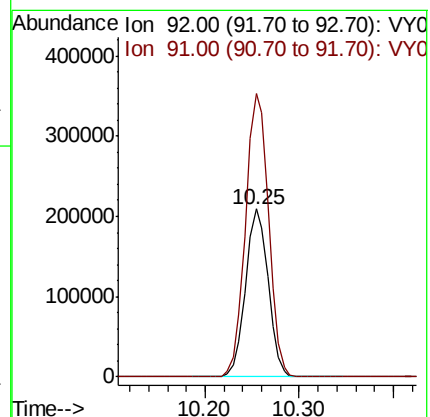
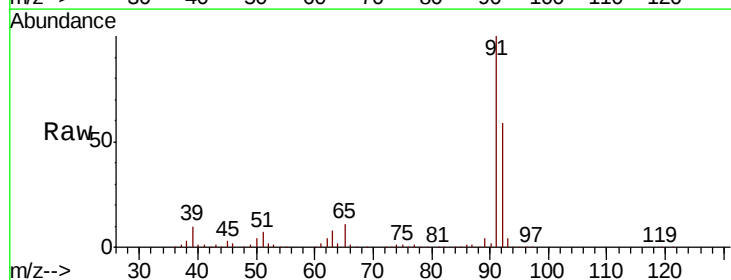
Acq: 24 Jan 2020 14:50

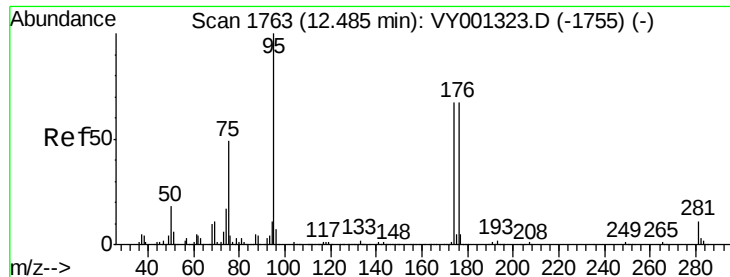
Tgt Ion: 92 Resp: 350516

Ion Ratio Lower Upper

92 100

91 172.0 136.4 204.6

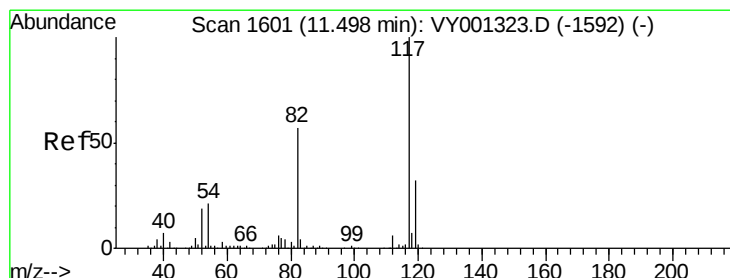
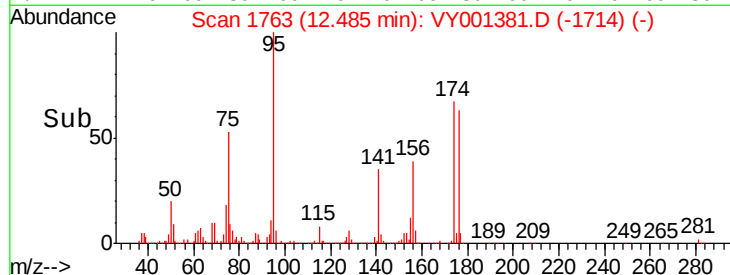
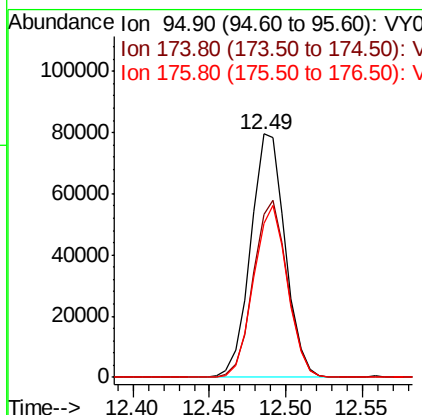
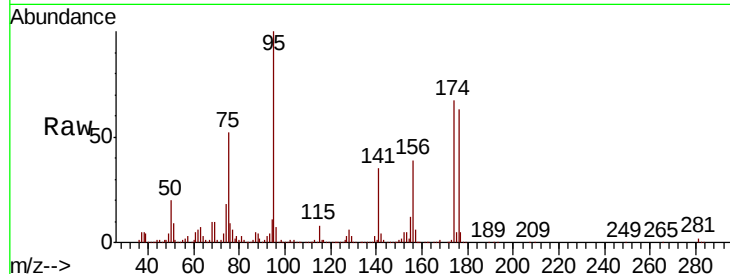




#62
4-Bromofluorobenzene
Concen: 43.567 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VY001381.D
Acq: 24 Jan 2020 14:50

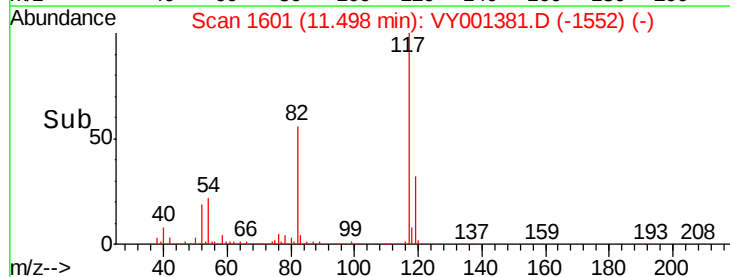
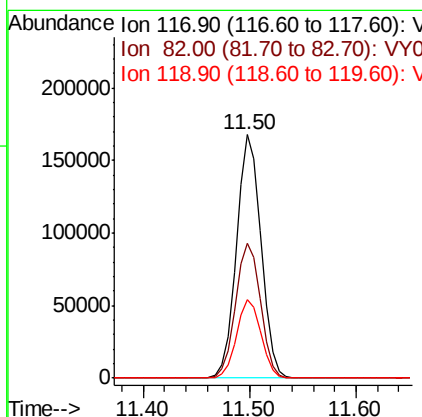
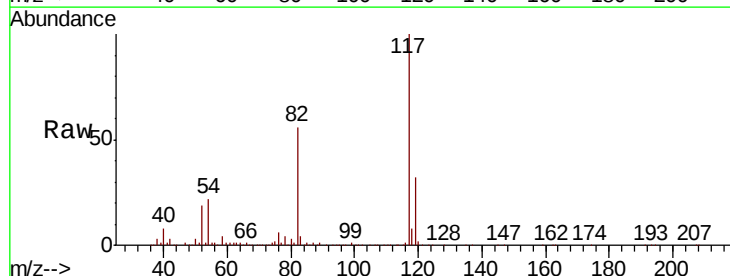
Instrument :
MSVOA_Y
ClientSampleId :

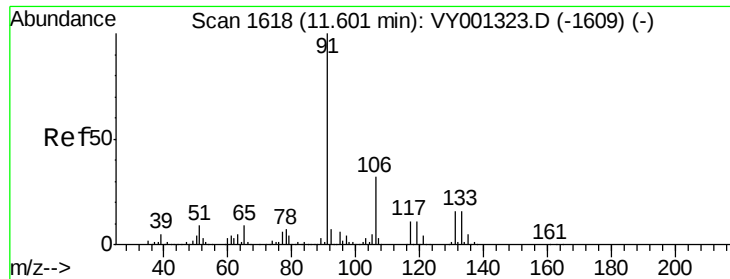
Tot Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	142.0
176	69.4	0.0	138.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY001381.D
Acq: 24 Jan 2020 14:50

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.5	68.3
119	32.0	25.8	38.6

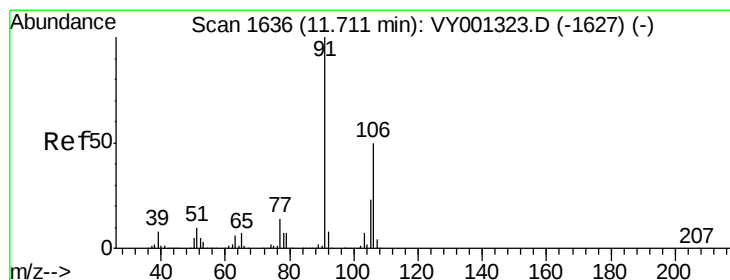
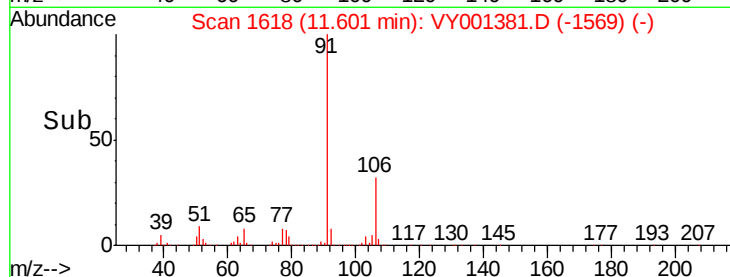
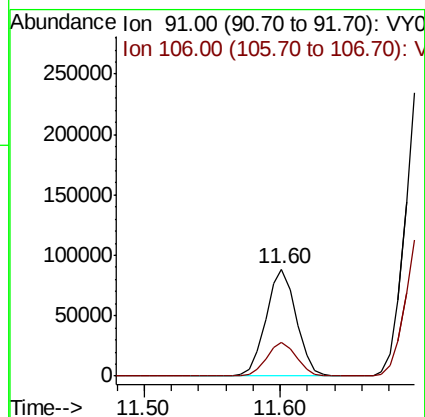
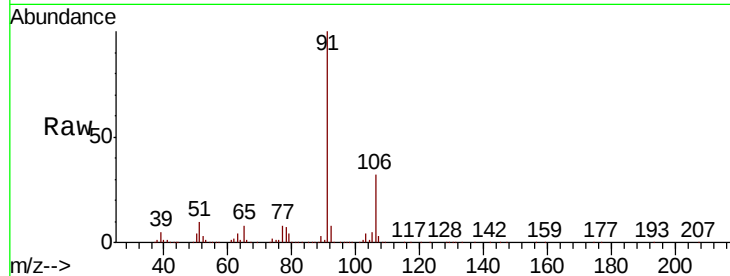




#67
Ethyl Benzene
Concen: 13.054 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VY001381.D
Acq: 24 Jan 2020 14:50

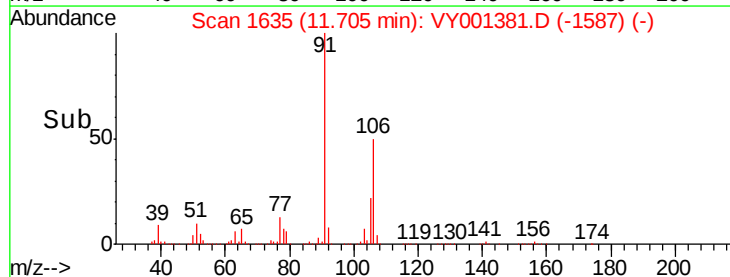
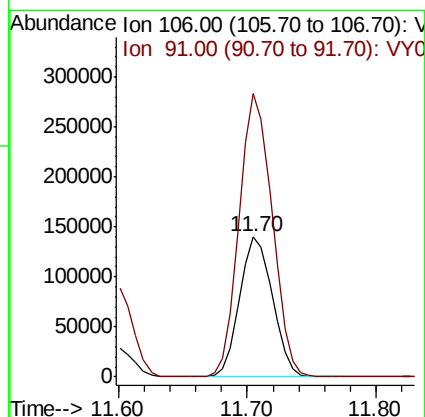
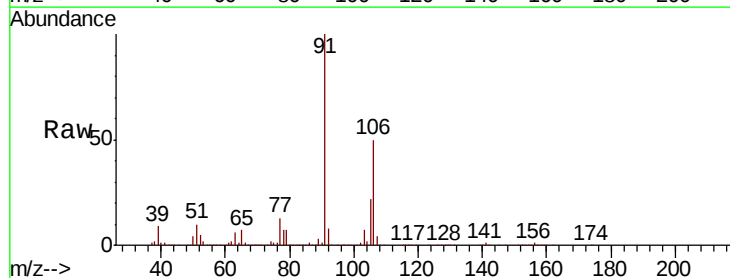
Instrument :
MSVOA_Y
ClientSampleId :

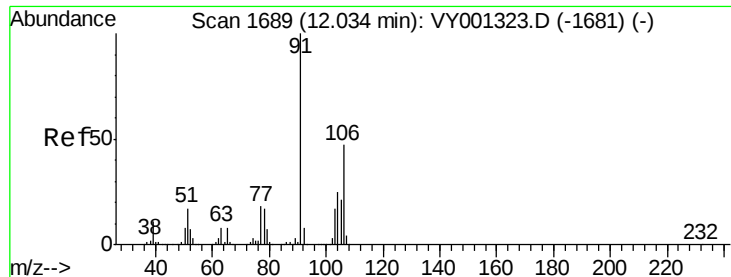
Tot Ion: 91 Resp: 137466
Ion Ratio Lower Upper
91 100
106 31.8 25.4 38.0



#68
m/p-Xylenes
Concen: 63.195 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001381.D
Acq: 24 Jan 2020 14:50

Tgt Ion: 106 Resp: 248553
Ion Ratio Lower Upper
106 100
91 202.1 162.8 244.2

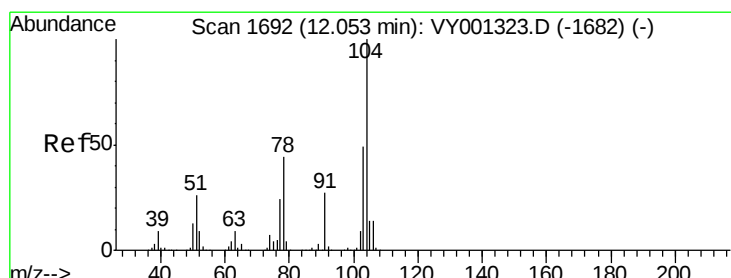
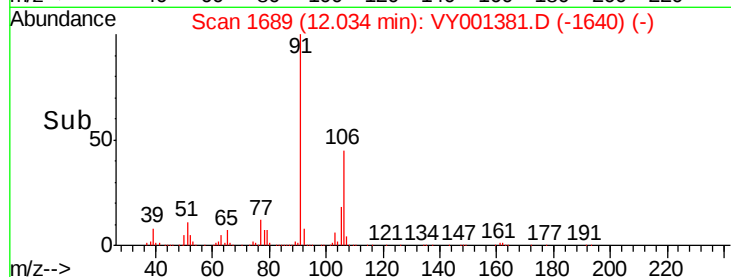
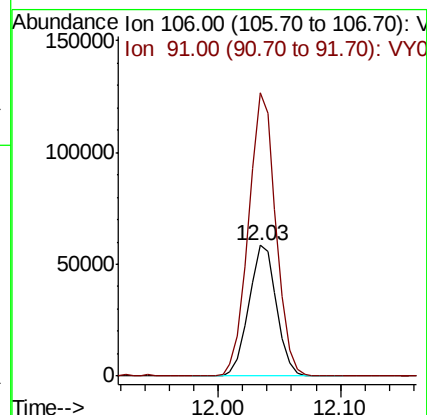
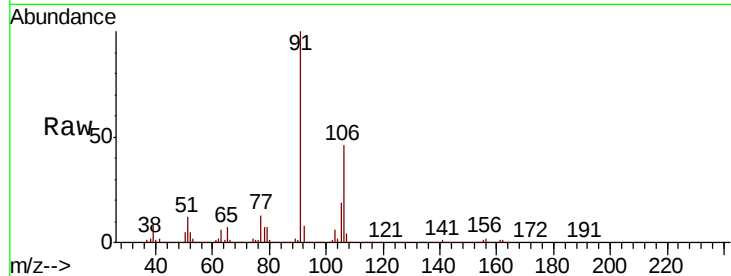




#69
o-Xylene
Concen: 24.329 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VY001381.D
Acq: 24 Jan 2020 14:50

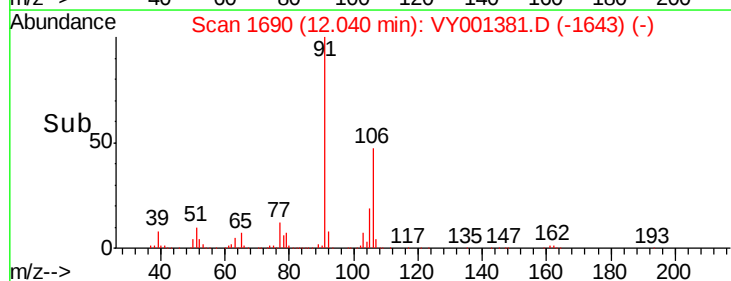
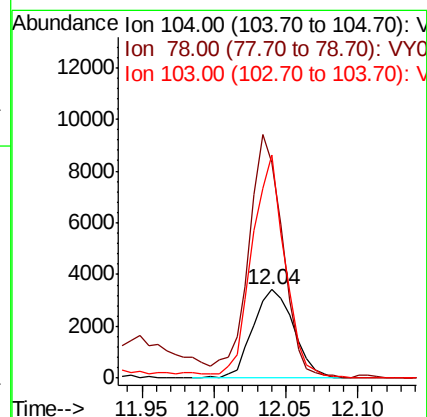
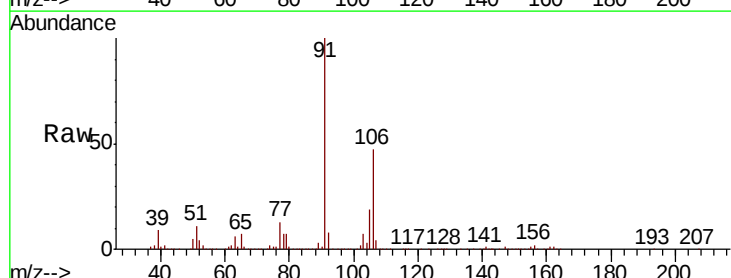
Instrument :
MSVOA_Y
ClientSampleId :

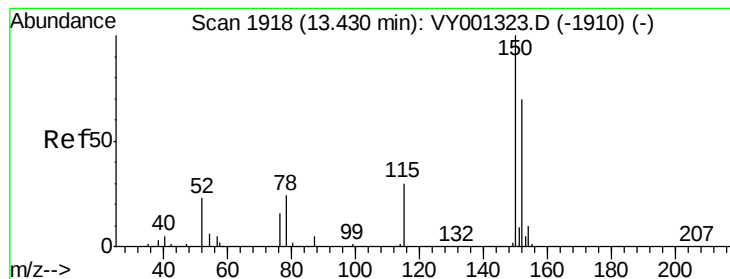
Tot Ion:106 Resp: 92052
Ion Ratio Lower Upper
106 100
91 213.1 106.3 319.0



#70
Styrene
Concen: 1.010 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. -0.01 min
Lab File: VY001381.D
Acq: 24 Jan 2020 14:50

Tgt Ion:104 Resp: 6704
Ion Ratio Lower Upper
104 100
78 230.6 39.8 59.8#
103 205.4 43.2 64.8#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.00 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

ClientSampled :

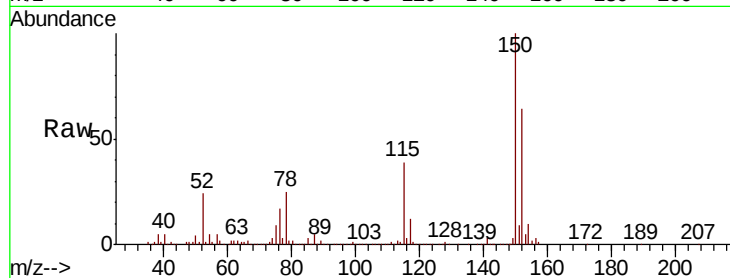
Tot Ion:152 Resp: 104609

Ion Ratio Lower Upper

152 100

115 62.4 30.9 92.8

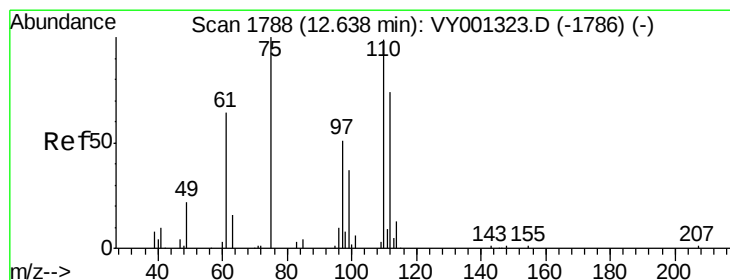
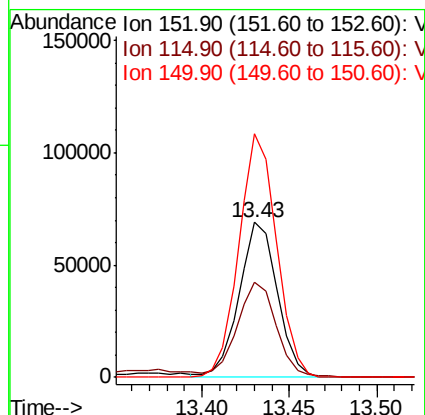
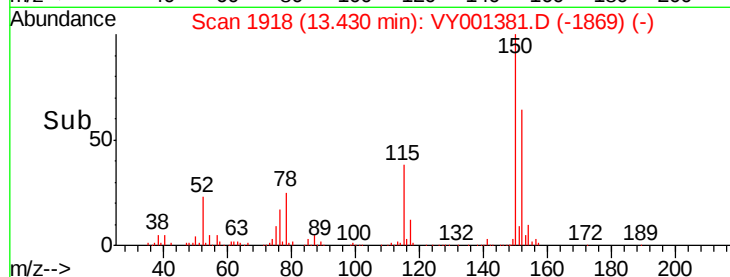
150 154.1 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 4.495 ug/l

RT: 12.73 min Scan# 1803

Delta R.T. 0.09 min

Lab File: VY001381.D

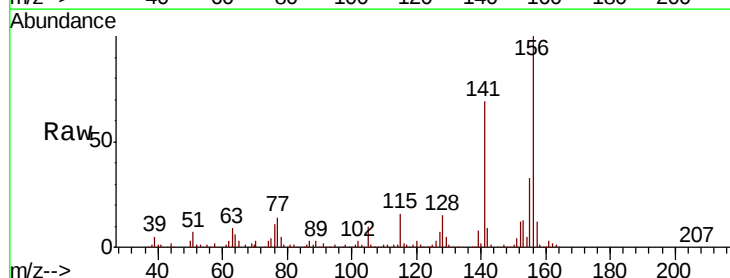
Acq: 24 Jan 2020 14:50

Tgt Ion: 75 Resp: 5666

Ion Ratio Lower Upper

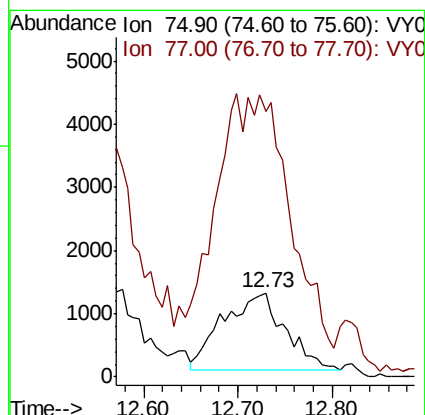
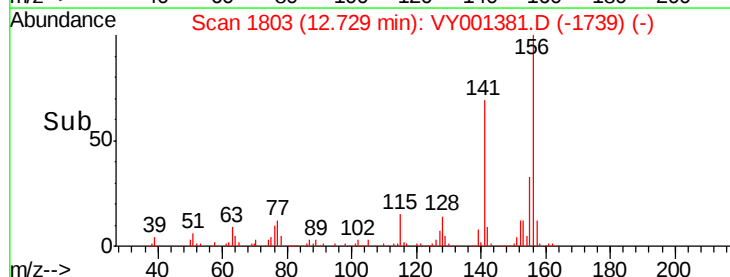
75 100

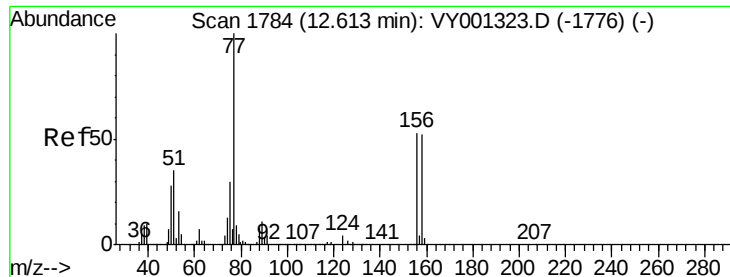
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 176.608 ug/l

RT: 12.53 min Scan# 1770

Delta R.T. -0.09 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

ClientSampleId :

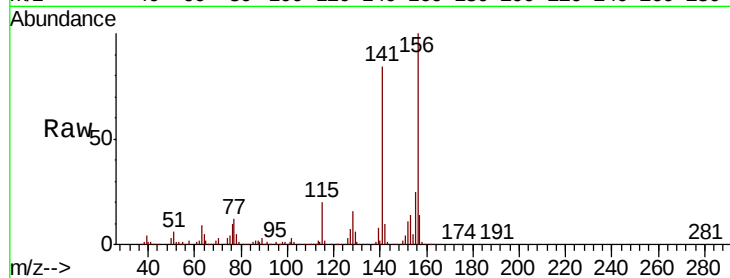
Tot Ion:156 Resp: 322892

Ion Ratio Lower Upper

156 100

77 11.9 104.7 313.9#

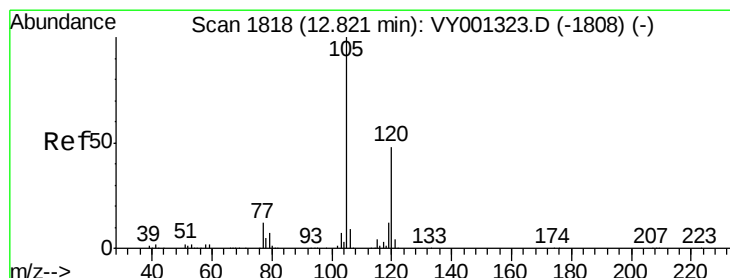
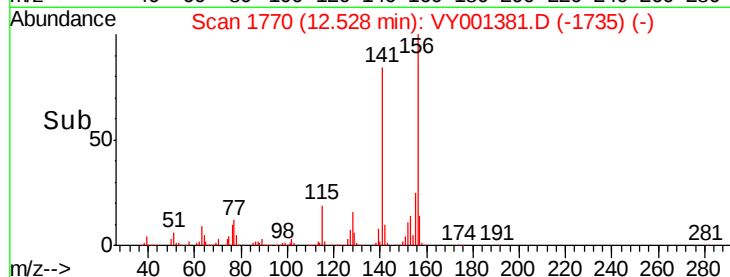
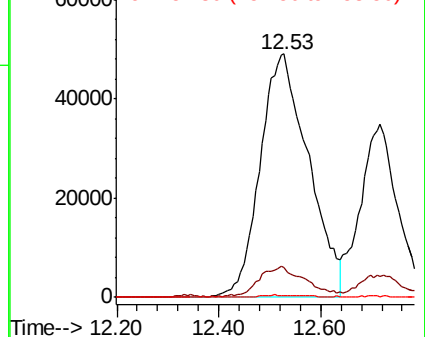
158 0.4 48.6 145.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 1.077 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VY001381.D

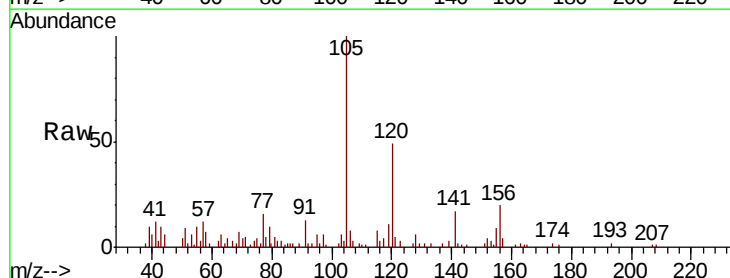
Acq: 24 Jan 2020 14:50

Tgt Ion:105 Resp: 7418

Ion Ratio Lower Upper

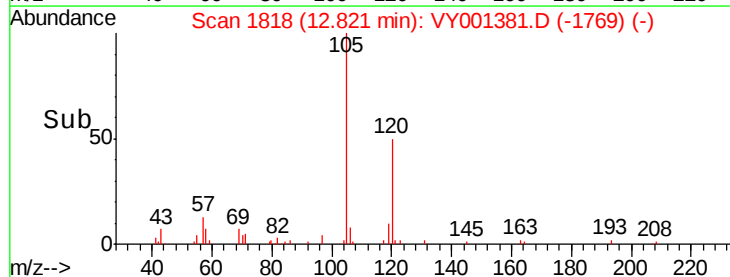
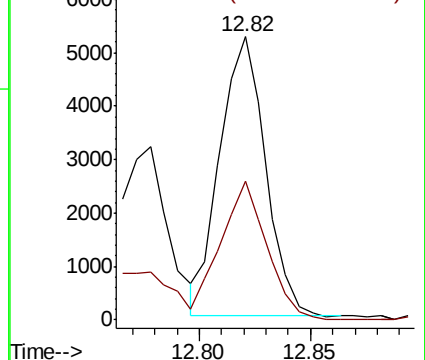
105 100

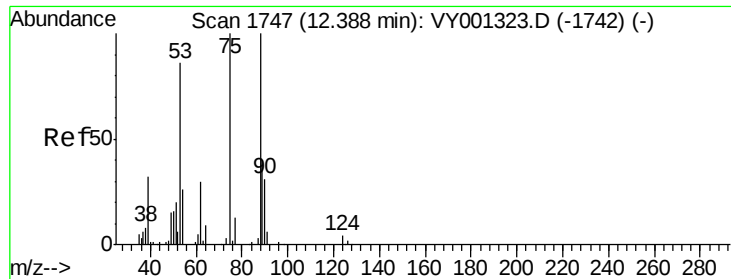
120 50.8 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.084 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

ClientSampleId :

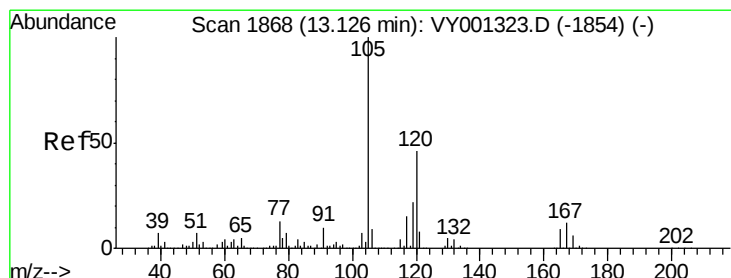
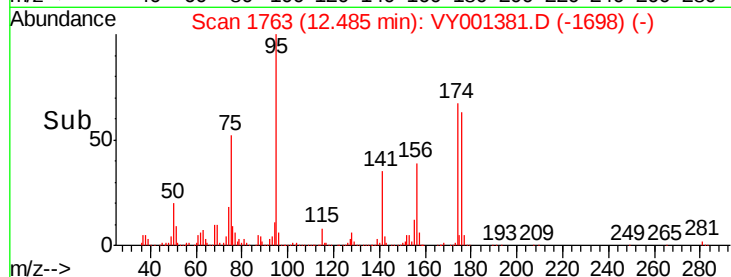
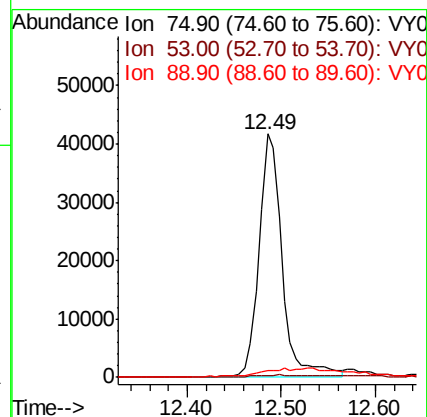
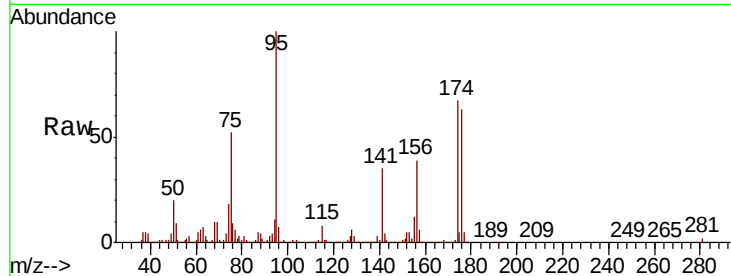
Tot Ion: 75 Resp: 71996

Ion Ratio Lower Upper

75 100

53 0.4 69.9 104.9#

89 4.5 36.6 54.8#



#84

1,2,4-Trimethylbenzene

Concen: 2.597 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. -0.00 min

Lab File: VY001381.D

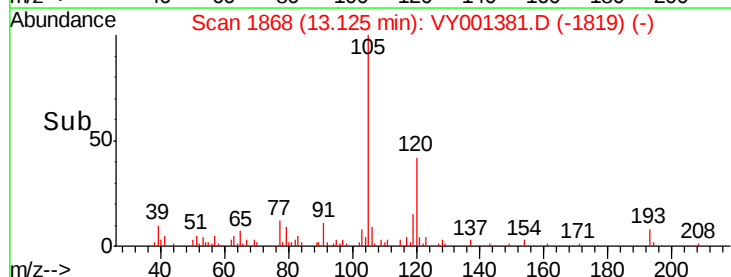
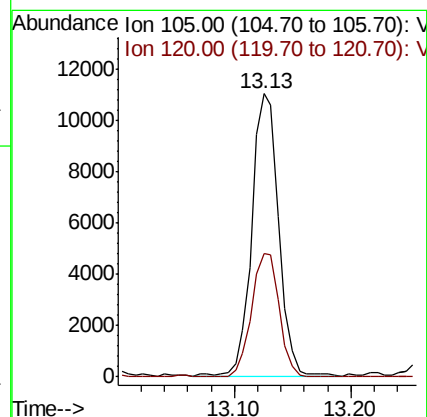
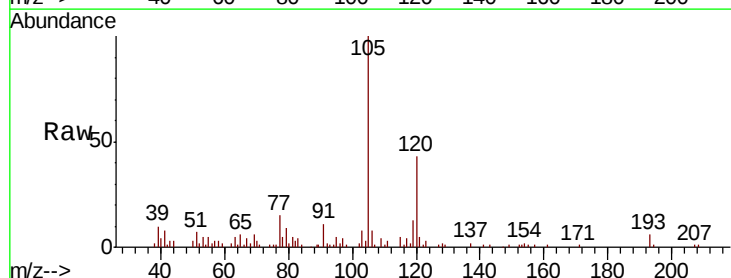
Acq: 24 Jan 2020 14:50

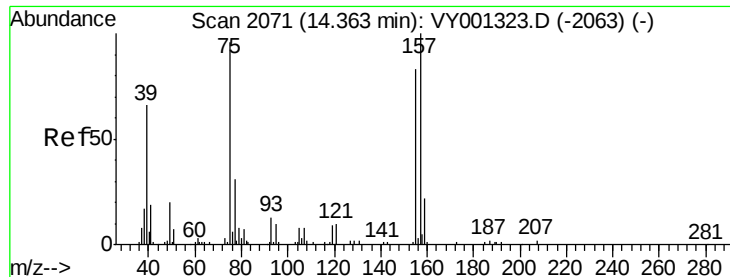
Tgt Ion: 105 Resp: 17966

Ion Ratio Lower Upper

105 100

120 44.2 22.4 67.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.914 ug/l

RT: 14.37 min Scan# 2072

Delta R.T. 0.01 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

Instrument :

MSVOA_Y

ClientSampled :

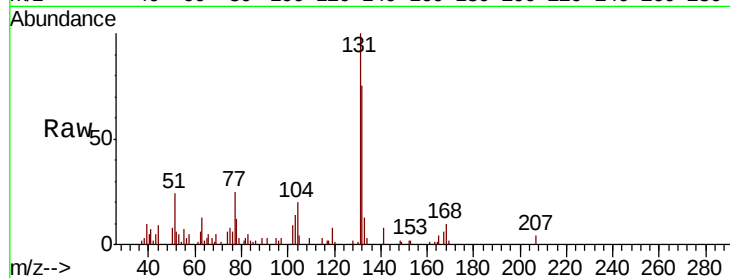
Tot Ion: 75 Resp: 889

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.2#

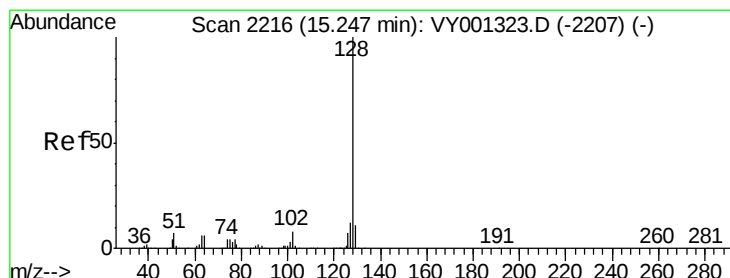
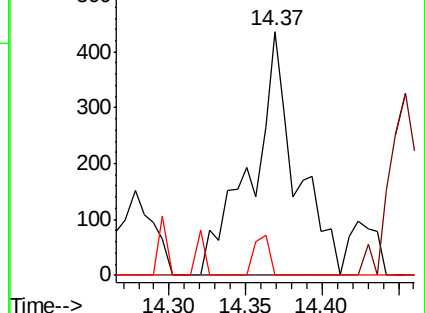
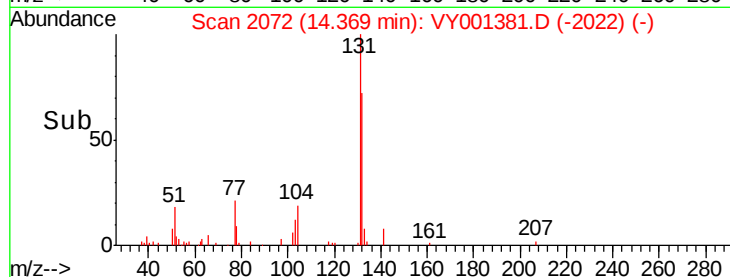
157 5.5 53.3 160.0#



Abundance Ion 74.90 (74.60 to 75.60): VY001381.D (-2022) (-)

Ion 154.80 (154.50 to 155.50): VY001381.D (-2022) (-)

Ion 156.80 (156.50 to 157.50): VY001381.D (-2022) (-)



#95

Naphthalene

Concen: 329.311 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001381.D

Acq: 24 Jan 2020 14:50

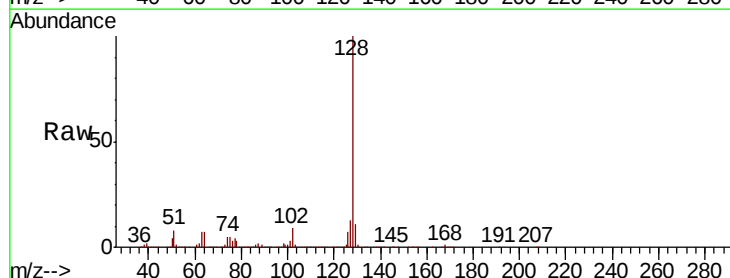
Tgt Ion: 128 Resp: 1641151

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): VY001381.D (-2167) (-)

Ion 127.00 (126.70 to 127.70): VY001381.D (-2167) (-)

Ion 129.00 (128.70 to 129.70): VY001381.D (-2167) (-)

