

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022020\
 Data File : VY001723.D
 Acq On : 20 Feb 2020 14:50
 Operator : SY/MD
 Sample : L1589-03RE
 Misc : 8.35G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 21 08:05:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	203061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	379414	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	340111	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	157821	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	116921	53.53	ug/l	0.00
Spiked Amount			Recovery	=	107.06%	
35) Dibromofluoromethane	7.75	113	110674	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
50) Toluene-d8	10.20	98	454932	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	
62) 4-Bromofluorobenzene	12.50	95	164304	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	

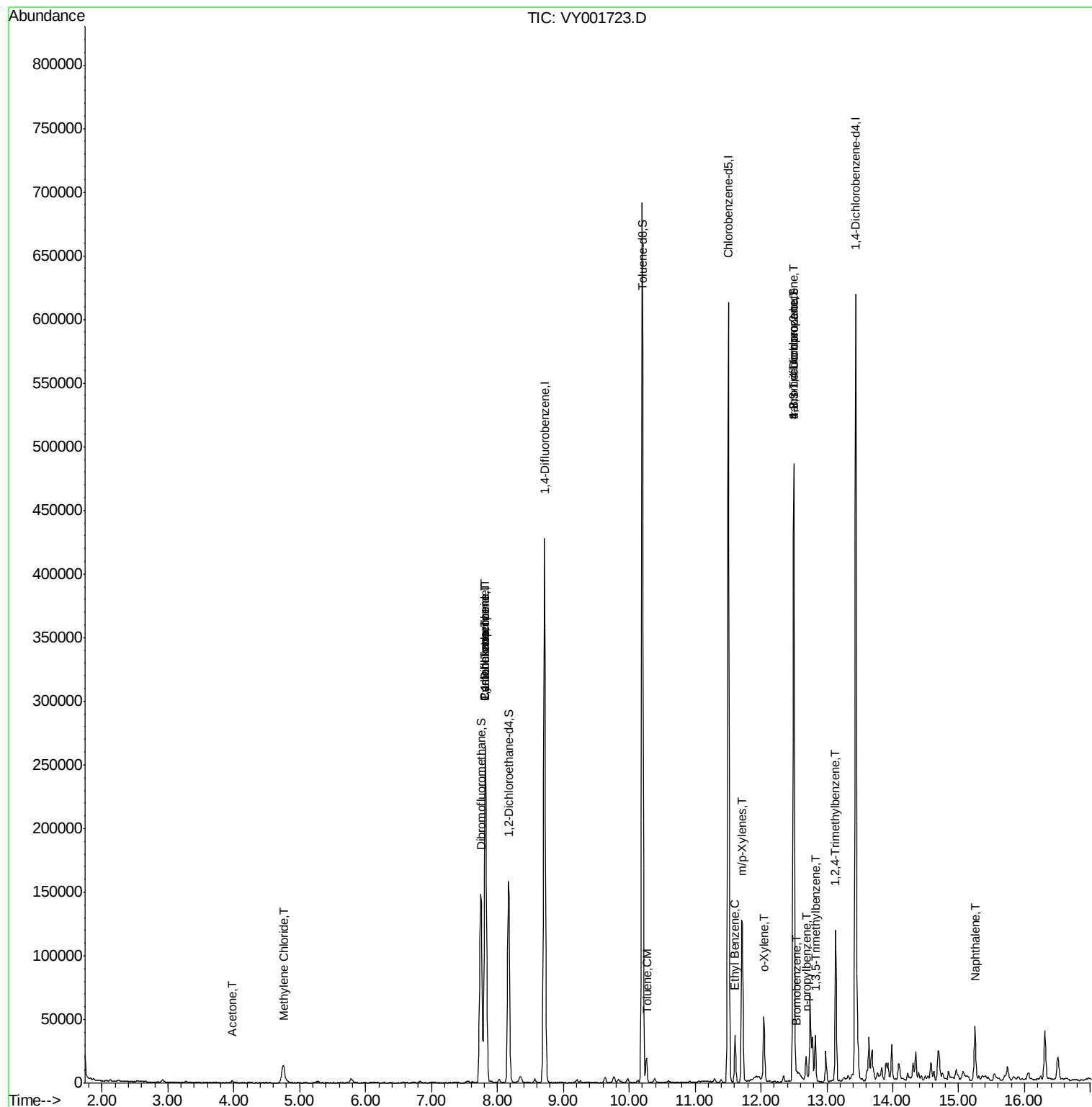
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	40	Below Cal	#	74
16) Acetone	3.97	43	2408	3.186	ug/l	95
20) Methylene Chloride	4.76	84	10915	4.066	ug/l	90
31) Cyclohexane	7.82	56	4846	1.056	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	16378	4.519	ug/l #	50
38) Carbon Tetrachloride	7.82	117	20265	6.366	ug/l #	16
52) Toluene	10.26	92	8190	1.232	ug/l	97
67) Ethyl Benzene	11.61	91	26064	2.068	ug/l	97
68) m/p-Xylenes	11.72	106	39452	8.381	ug/l	99
69) o-Xylene	12.04	106	14026	3.134	ug/l	92
76) 1,2,3-Trichloropropane	12.50	75	80196	44.297	ug/l #	100
77) Bromobenzene	12.55	156	5573	2.138	ug/l #	1
78) n-propylbenzene	12.69	91	14876	1.016	ug/l	97
80) 1,3,5-Trimethylbenzene	12.83	105	17027	1.711	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.50	75	80196	84.039	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.13	105	65264	6.578	ug/l	99
95) Naphthalene	15.25	128	31985	4.487	ug/l	98

(#) = 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# 998

Delta R.T. 0.01 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Instrument :

MSVOA_Y

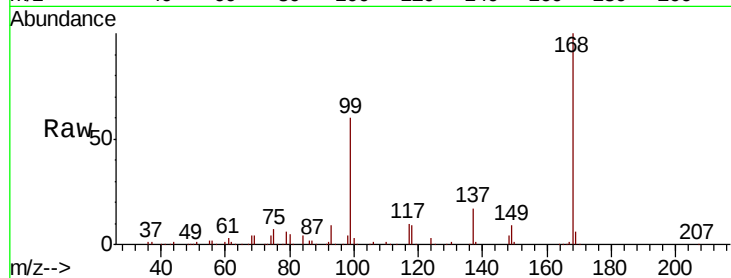
ClientSampled :

Tot Ion:168 Resp: 203061

Ion Ratio Lower Upper

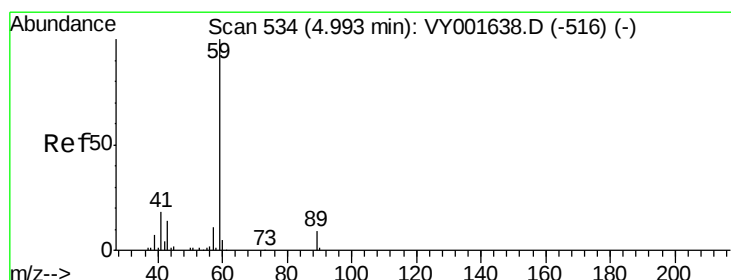
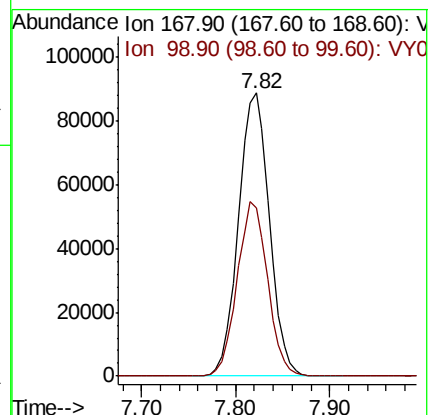
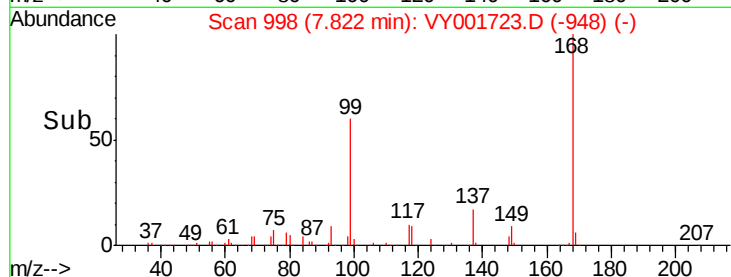
168 100

99 59.5 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001638.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001723.D (-948) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY001723.D

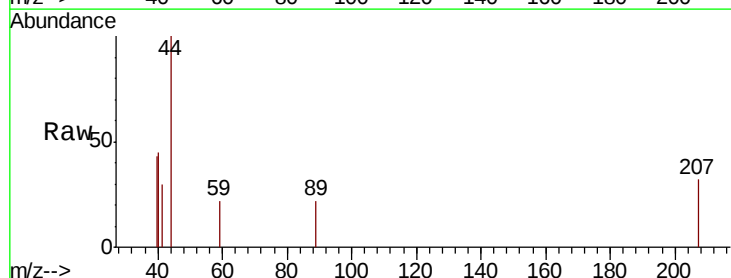
Acq: 20 Feb 2020 14:50

Tgt Ion: 59 Resp: 40

Ion Ratio Lower Upper

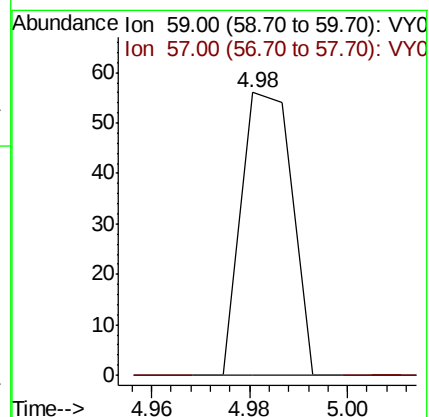
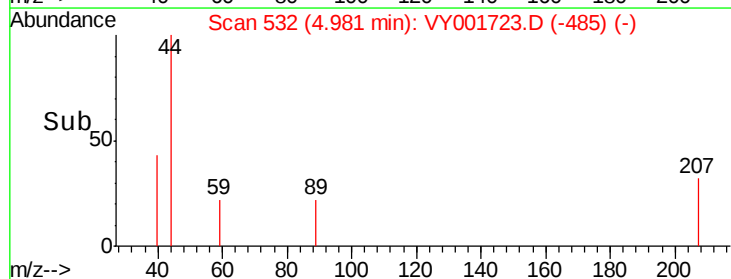
59 100

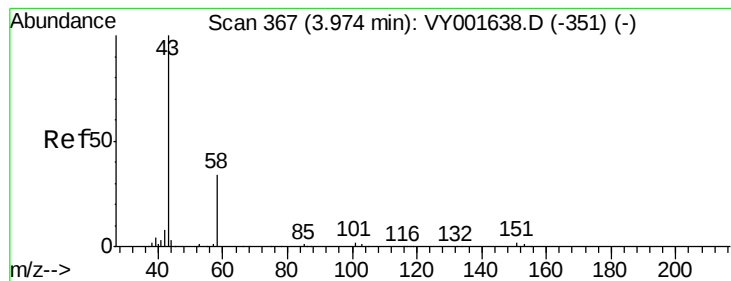
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001638.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY001723.D (-485) (-)





#16

Acetone

Concen: 3.186 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

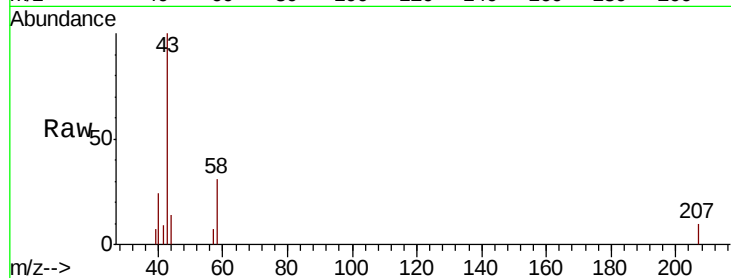
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 2408

Ion Ratio Lower Upper

43 100

58 31.3 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VY001723.D (-351) (-)

Ion 58.00 (57.70 to 58.70): VY001723.D (-351) (-)

3.97

1000

800

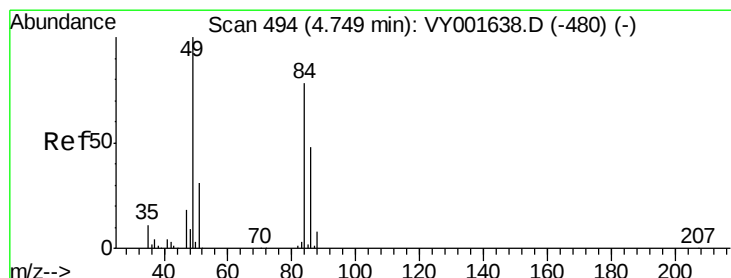
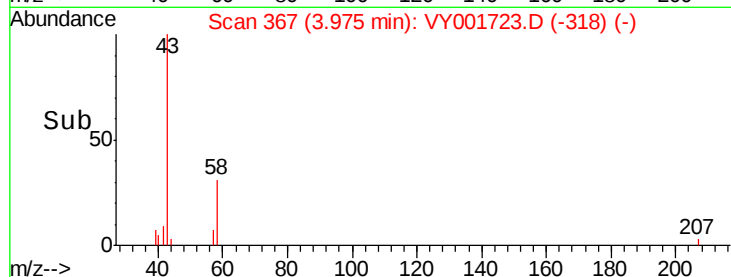
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 4.066 ug/l

RT: 4.76 min Scan# 495

Delta R.T. 0.01 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Tgt Ion: 84 Resp: 10915

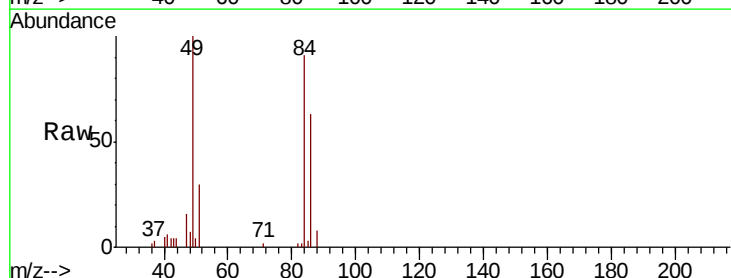
Ion Ratio Lower Upper

84 100

49 109.9 99.2 148.8

51 33.3 31.5 47.3

86 68.9 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VY001723.D (-445) (-)

Ion 48.90 (48.60 to 49.60): VY001723.D (-445) (-)

Ion 50.90 (50.60 to 51.60): VY001723.D (-445) (-)

Ion 85.90 (85.60 to 86.60): VY001723.D (-445) (-)

4.76

6000

5000

4000

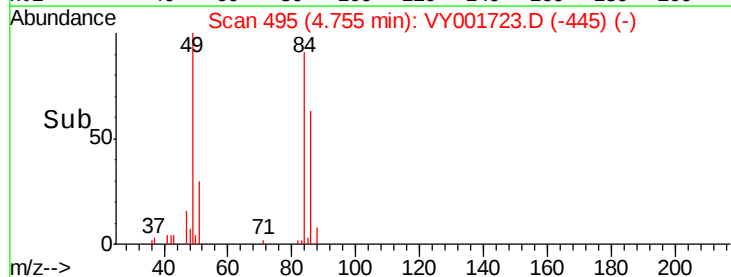
3000

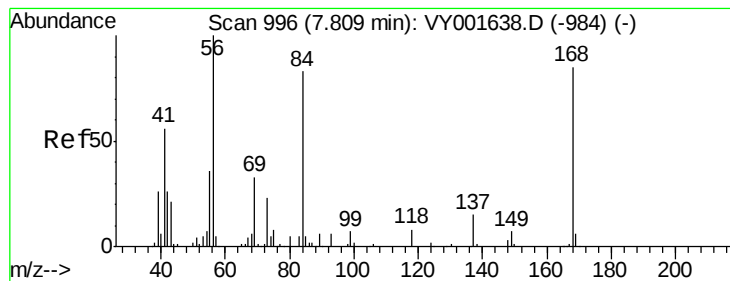
2000

1000

0

Time-->





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Instrument :
MSVOA_Y
ClientSampleId :

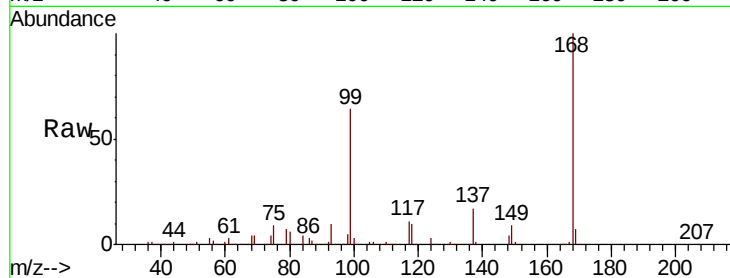
Tot Ion: 56 Resp: 4846

Ion Ratio Lower Upper

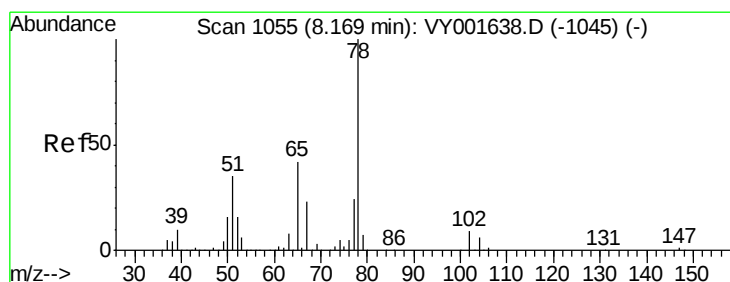
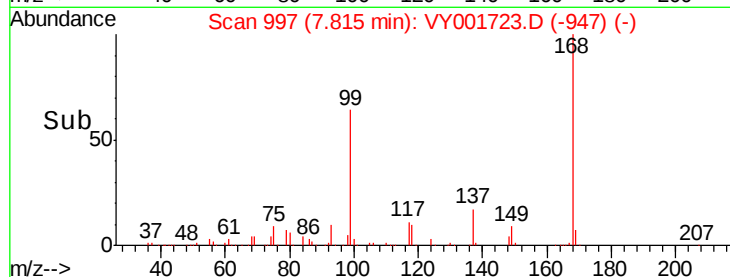
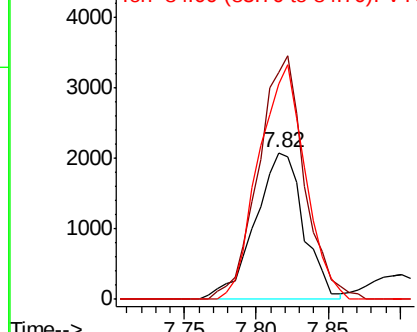
56 100

69 155.5 25.1 37.7#

84 147.0 66.9 100.3#



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: 53.530 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VY001723.D

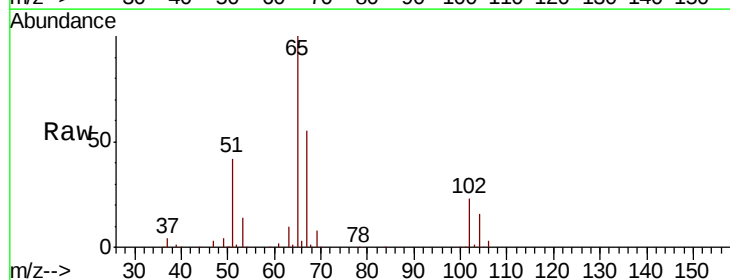
Acq: 20 Feb 2020 14:50

Tgt Ion: 65 Resp: 116921

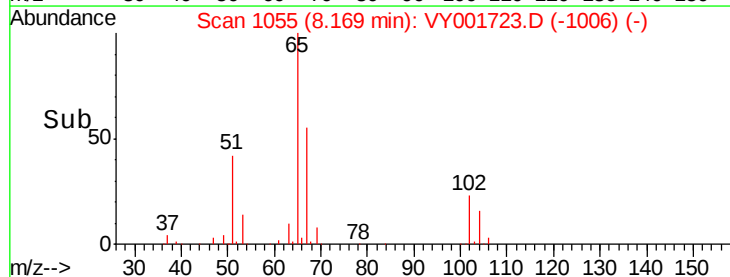
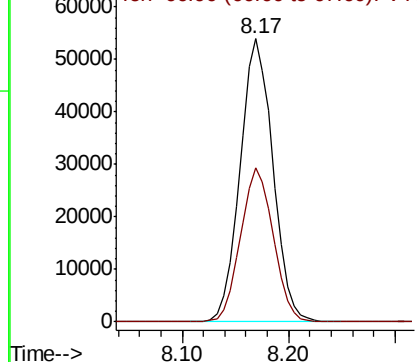
Ion Ratio Lower Upper

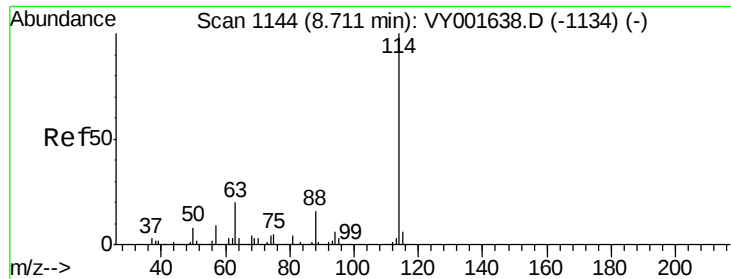
65 100

67 54.5 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

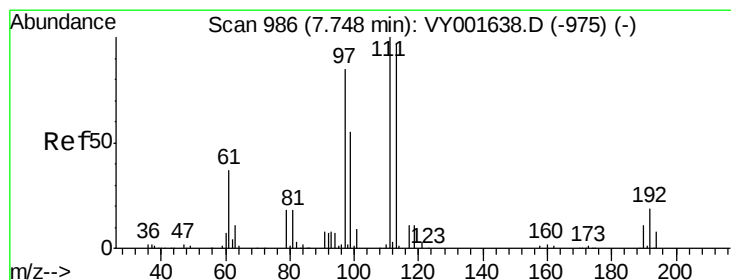
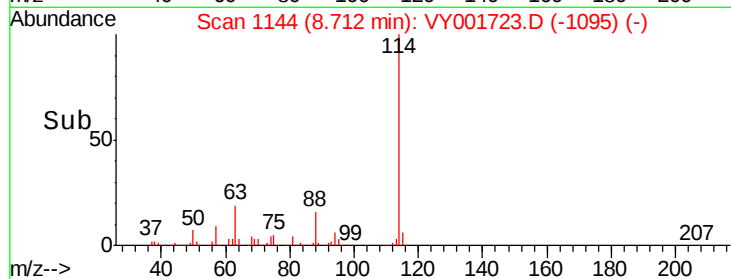
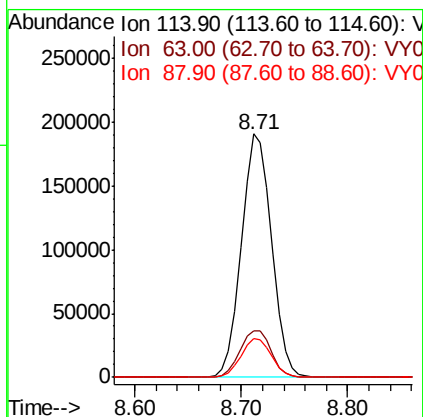
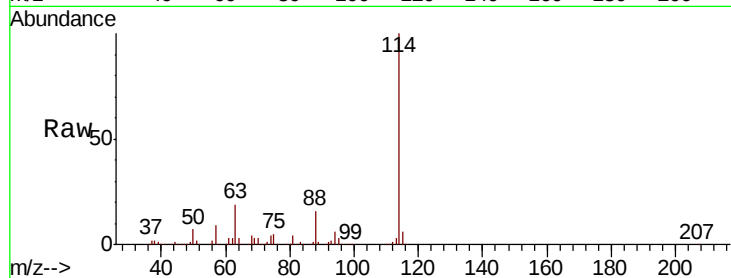




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VY001723.D
 Acq: 20 Feb 2020 14:50

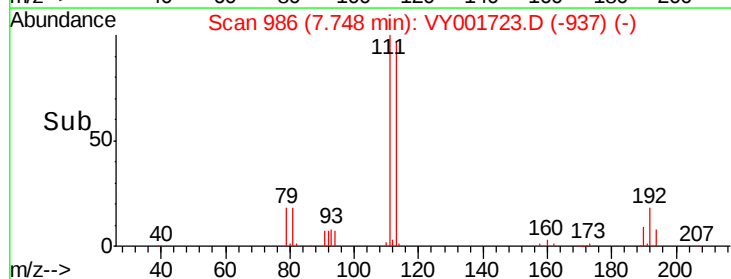
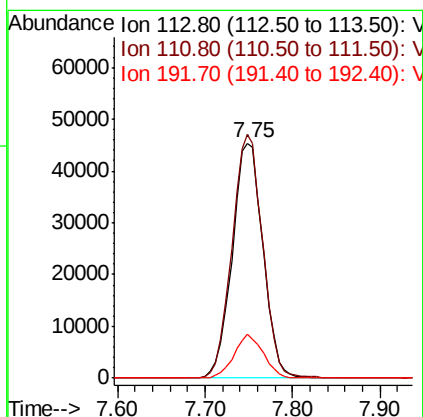
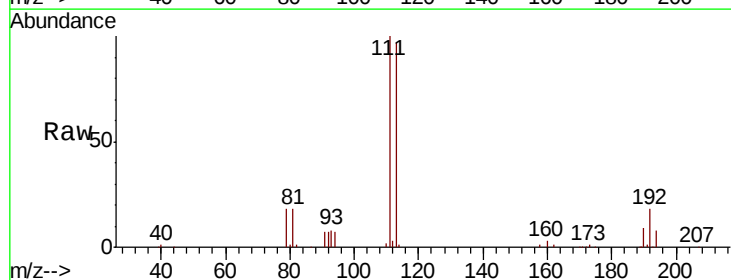
Instrument :
 MSVOA_Y
 ClientSampleId :

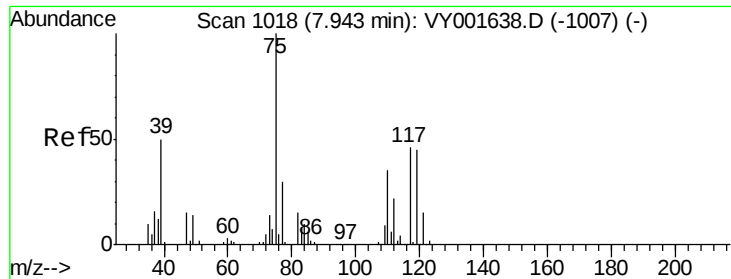
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	41.4
88	16.2	0.0	32.8



#35
 Dibromofluoromethane
 Concen: 50.929 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. 0.00 min
 Lab File: VY001723.D
 Acq: 20 Feb 2020 14:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.9	122.9
192	17.8	14.3	21.5

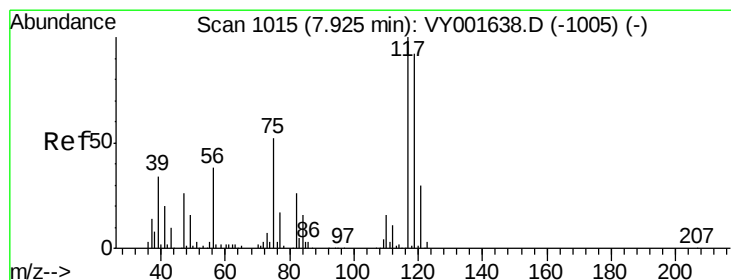
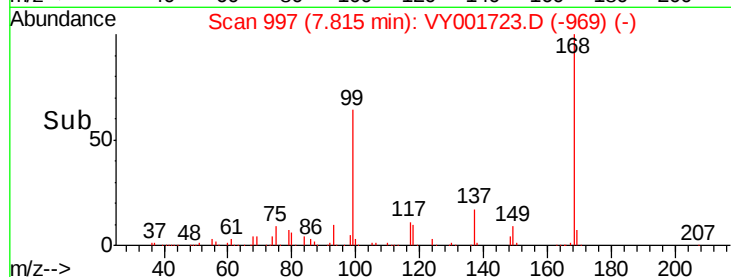
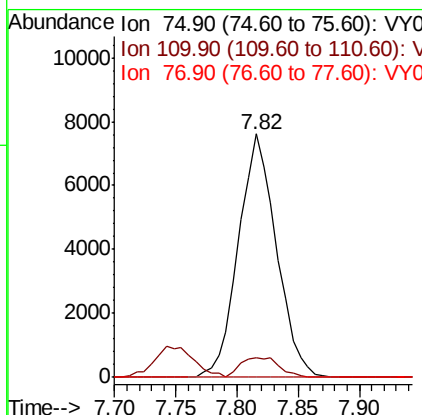
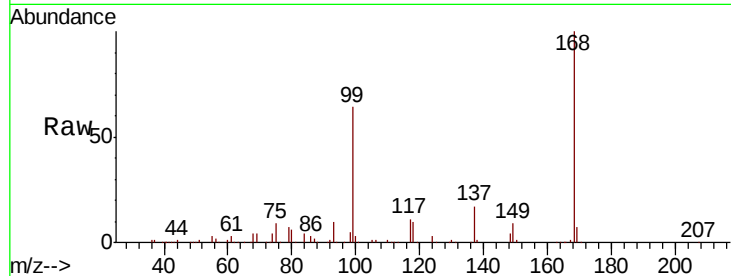




#36
 1,1-Dichloropropene
 Concen: 4.519 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001723.D
 Acq: 20 Feb 2020 14:50

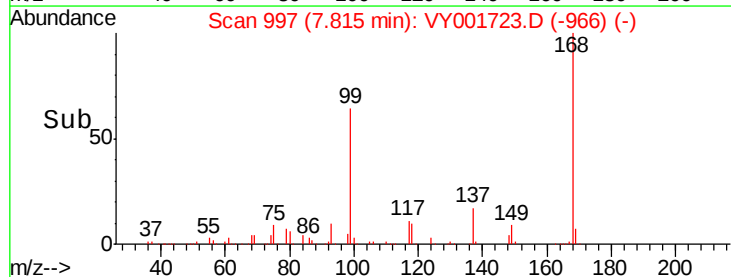
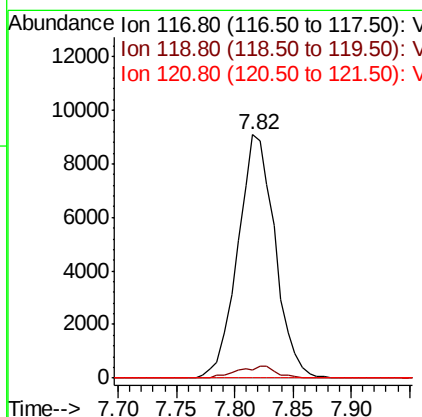
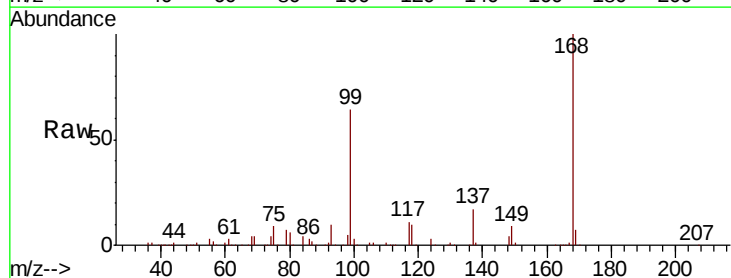
Instrument :
 MSVOA_Y
 ClientSampleId :

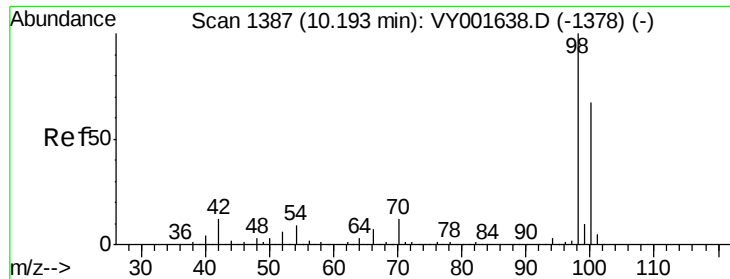
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.2	51.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.366 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.11 min
 Lab File: VY001723.D
 Acq: 20 Feb 2020 14:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.6	74.8	112.2#
121	0.0	23.8	35.6#





#50

Toluene-d8

Concen: 53.436 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Instrument :

MSVOA_Y

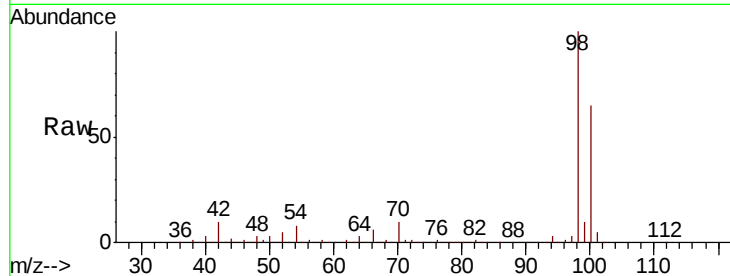
ClientSampleId :

Tot Ion: 98 Resp: 454932

Ion Ratio Lower Upper

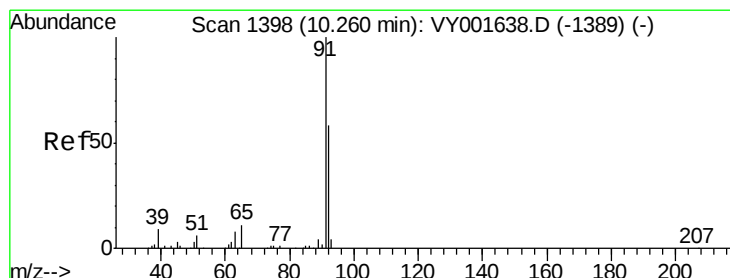
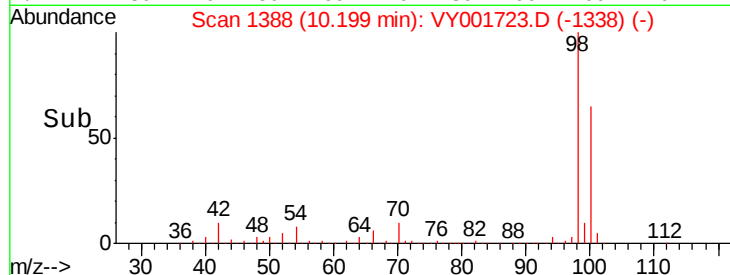
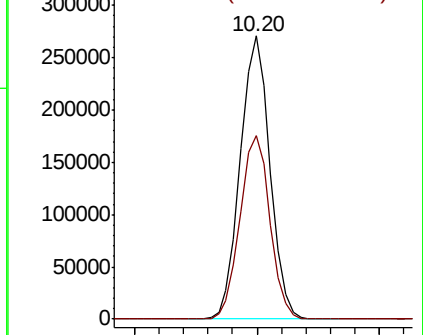
98 100

100 65.5 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#52

Toluene

Concen: 1.232 ug/l

RT: 10.26 min Scan# 1398

Delta R.T. 0.00 min

Lab File: VY001723.D

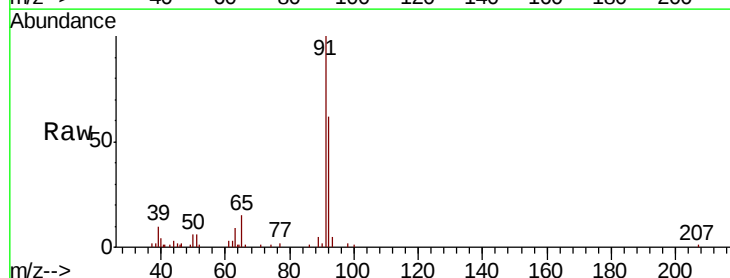
Acq: 20 Feb 2020 14:50

Tgt Ion: 92 Resp: 8190

Ion Ratio Lower Upper

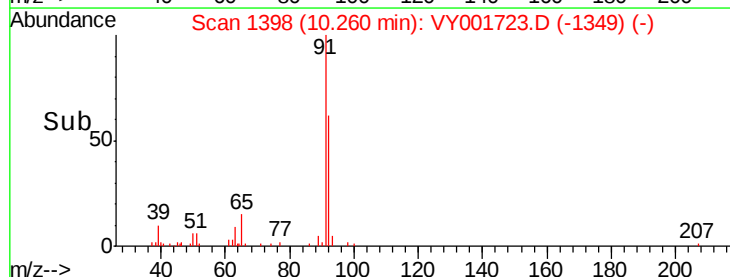
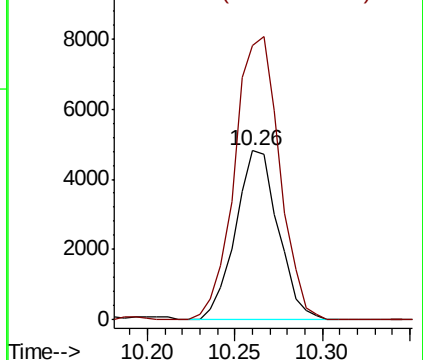
92 100

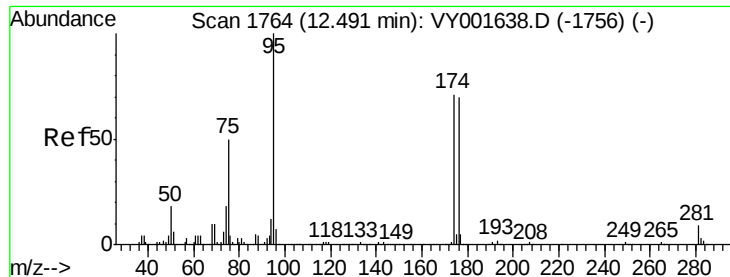
91 175.6 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0

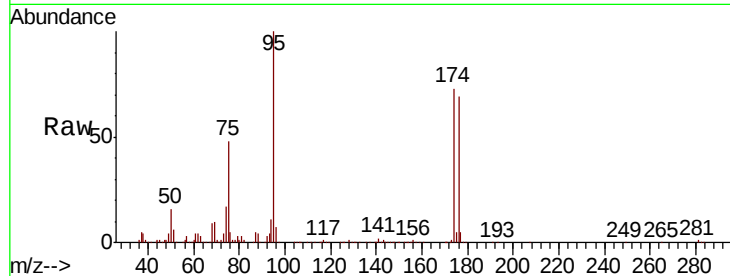




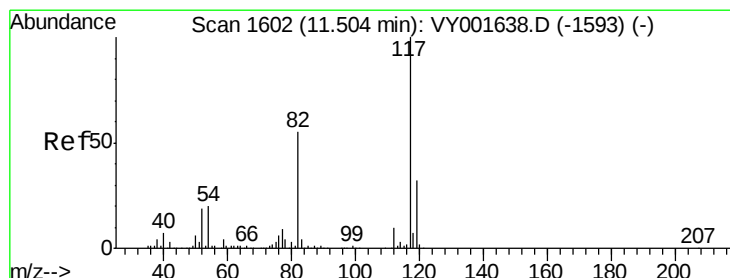
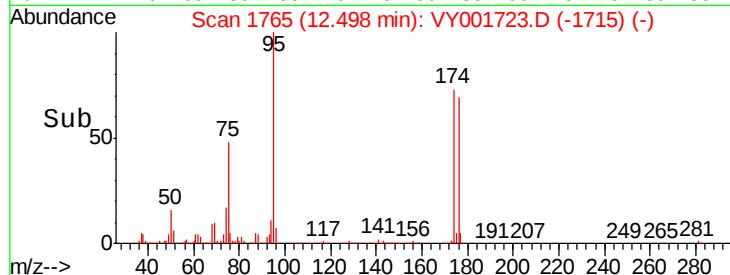
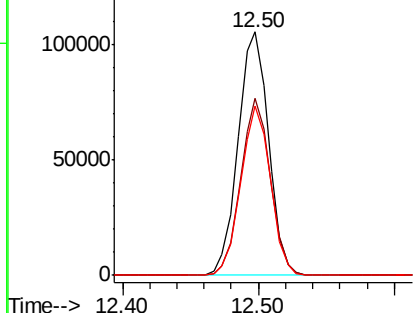
#62
4-Bromofluorobenzene
Concen: 49.677 ug/l
RT: 12.50 min Scan# 1765
Delta R.T. 0.01 min
Lab File: VY001723.D
Acq: 20 Feb 2020 14:50

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 95 Resp: 164304
Ion Ratio Lower Upper
95 100
174 70.5 0.0 138.4
176 67.6 0.0 131.8

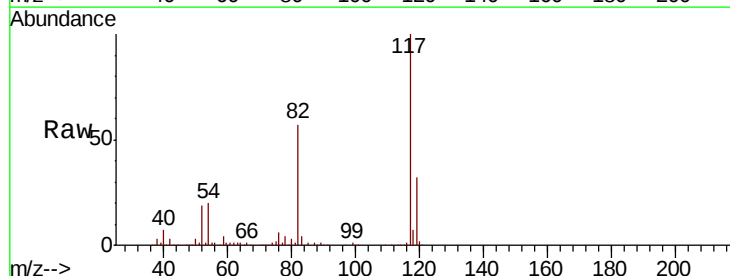


Abundance Ion 94.90 (94.60 to 95.60): VY001723.D (-1756) (-)
Ion 173.80 (173.50 to 174.50): VY001723.D (-1756) (-)
Ion 175.80 (175.50 to 176.50): VY001723.D (-1756) (-)

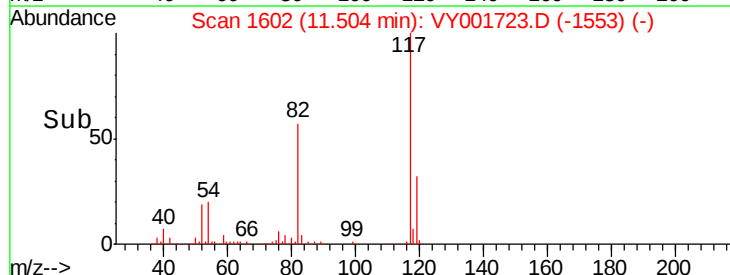
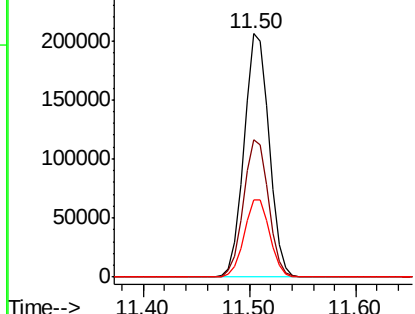


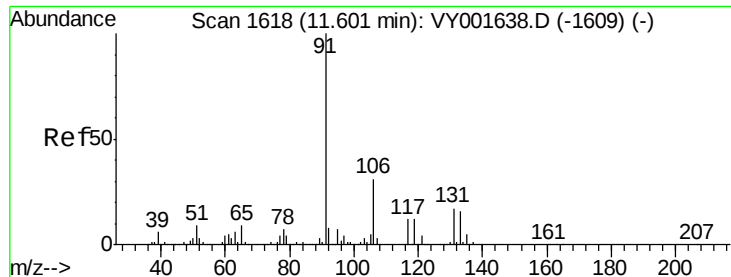
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY001723.D
Acq: 20 Feb 2020 14:50

Tgt Ion: 117 Resp: 340111
Ion Ratio Lower Upper
117 100
82 56.6 45.5 68.3
119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VY001723.D (-1553) (-)
Ion 82.00 (81.70 to 82.70): VY001723.D (-1553) (-)
Ion 118.90 (118.60 to 119.60): VY001723.D (-1553) (-)

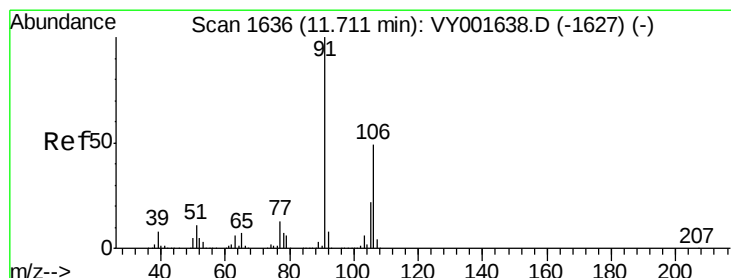
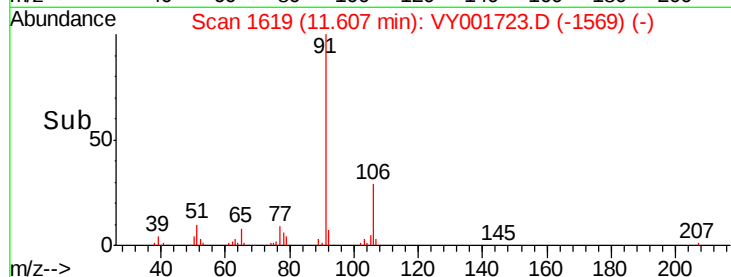
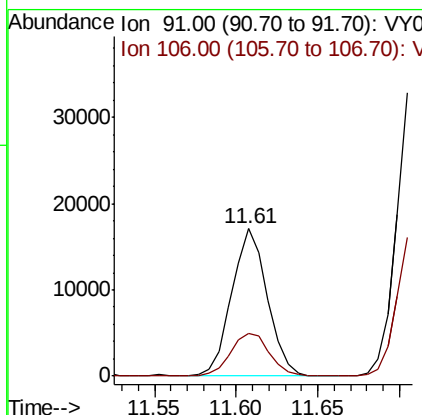
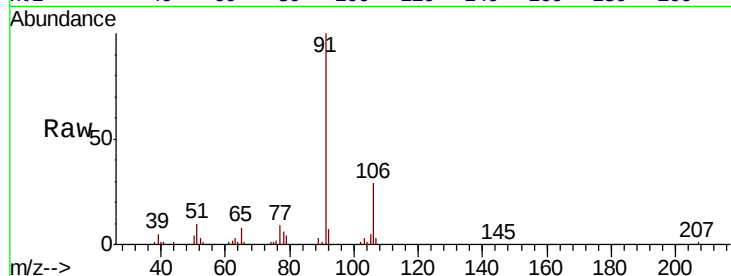




#67
Ethyl Benzene
Concen: 2.068 ug/l
RT: 11.61 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VY001723.D
Acq: 20 Feb 2020 14:50

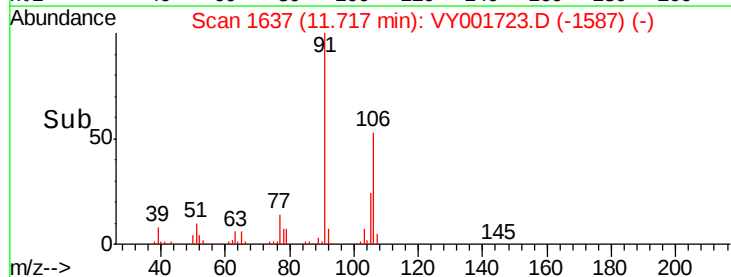
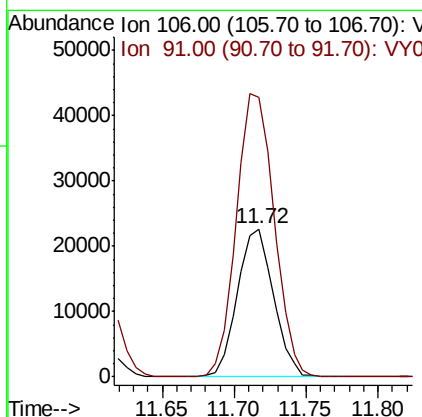
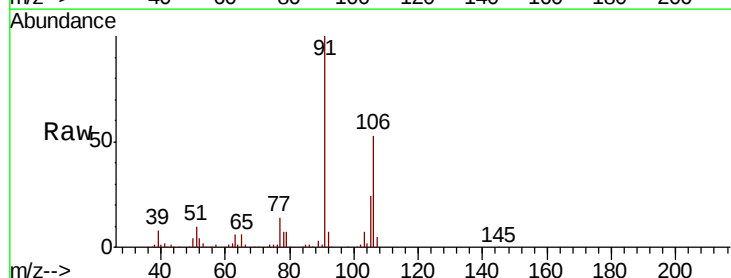
Instrument :
MSVOA_Y
ClientSampled :

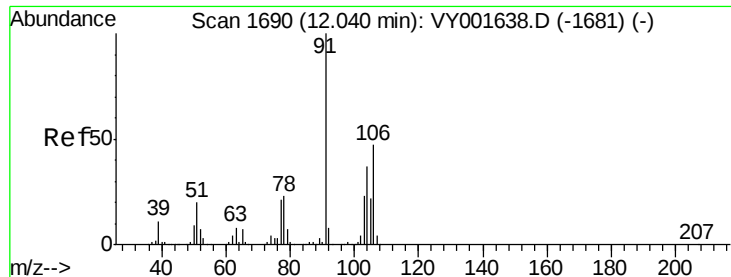
Tot Ion: 91 Resp: 26064
Ion Ratio Lower Upper
91 100
106 29.0 24.5 36.7



#68
m/p-Xylenes
Concen: 8.381 ug/l
RT: 11.72 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VY001723.D
Acq: 20 Feb 2020 14:50

Tgt Ion: 106 Resp: 39452
Ion Ratio Lower Upper
106 100
91 202.2 163.3 244.9

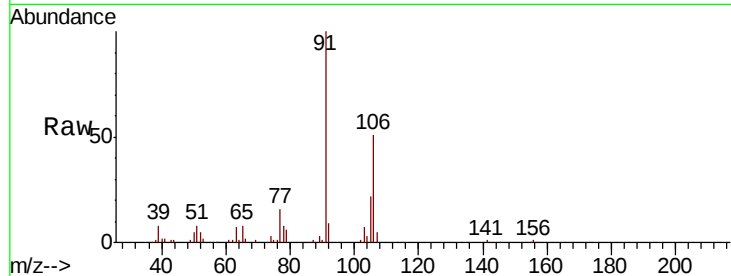




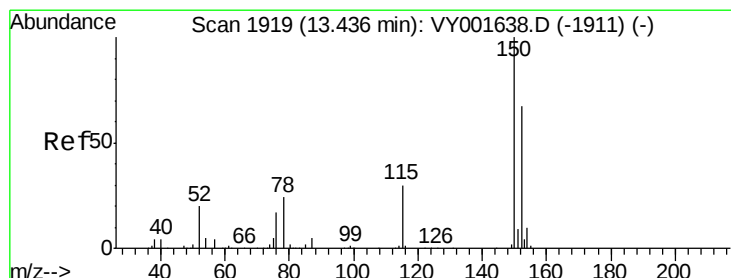
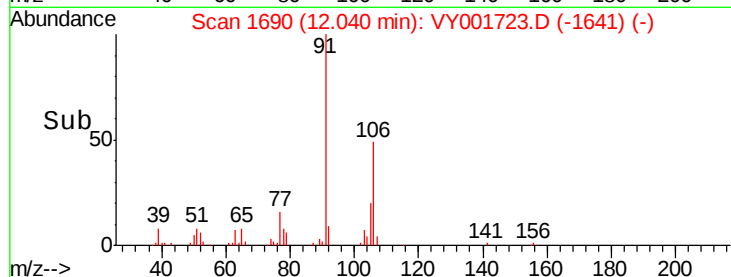
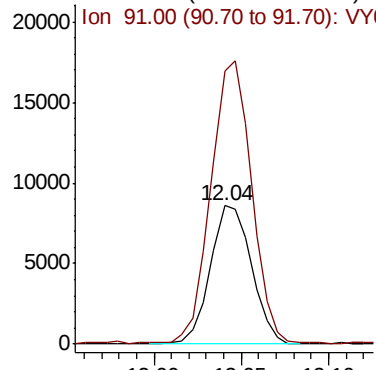
#69
o-Xylene
Concen: 3.134 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY001723.D
Acq: 20 Feb 2020 14:50

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:106 Resp: 14026
Ion Ratio Lower Upper
106 100
91 204.4 108.3 324.9

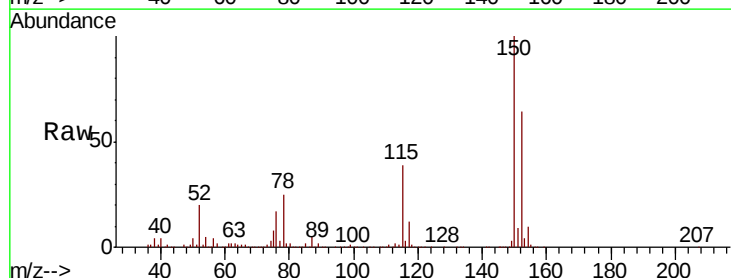


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

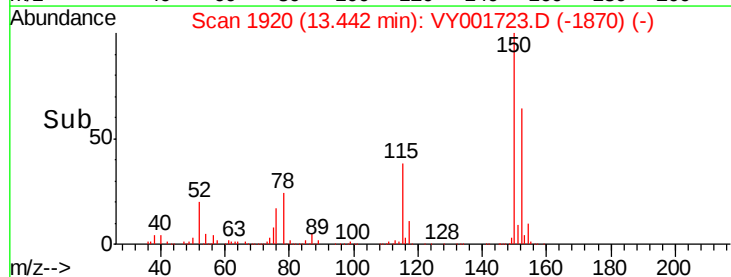
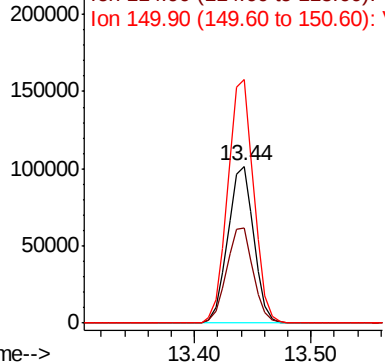


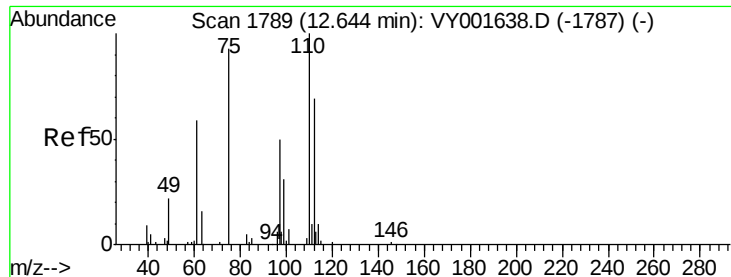
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1920
Delta R.T. 0.01 min
Lab File: VY001723.D
Acq: 20 Feb 2020 14:50

Tgt Ion:152 Resp: 157821
Ion Ratio Lower Upper
152 100
115 63.4 31.4 94.2
150 155.9 0.0 407.2



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: 44.297 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. -0.15 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Instrument :

MSVOA_Y

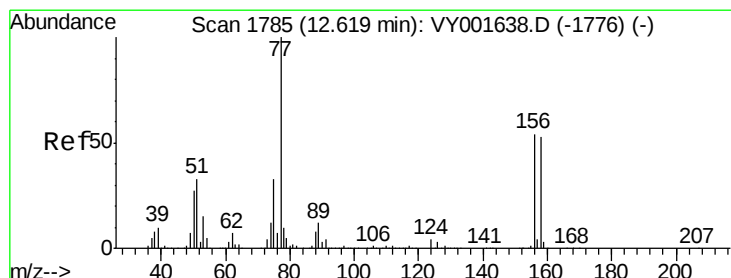
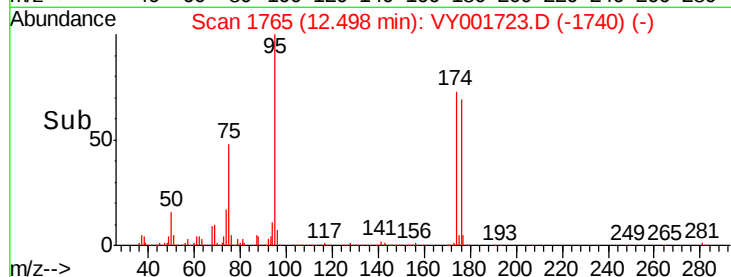
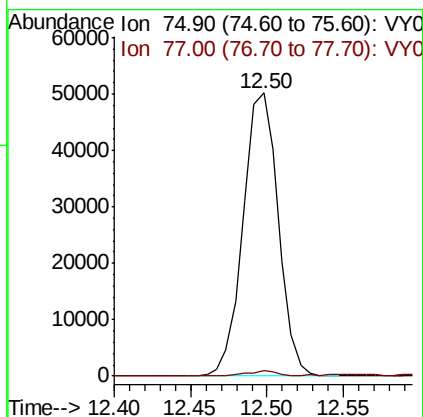
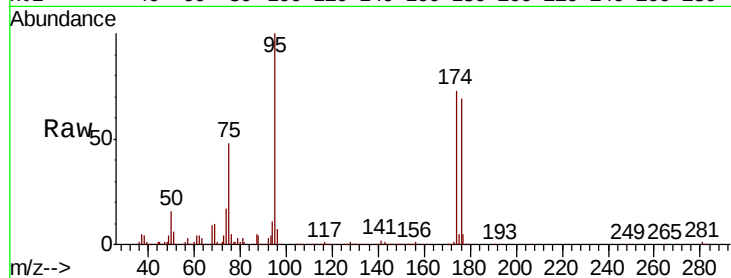
ClientSampled :

Tot Ion: 75 Resp: 80196

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#77

Bromobenzene

Concen: 2.138 ug/l

RT: 12.55 min Scan# 1773

Delta R.T. -0.07 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

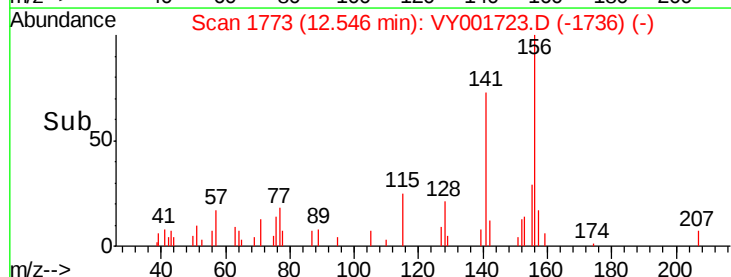
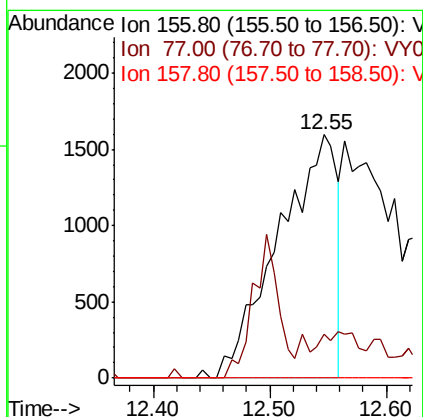
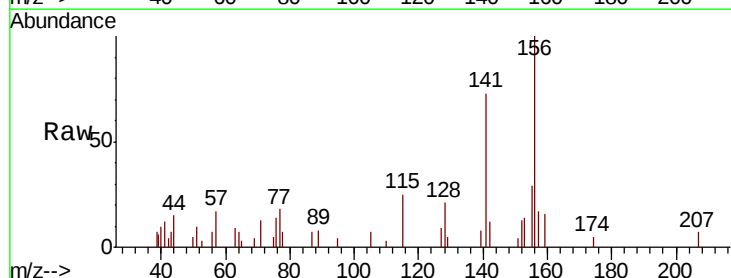
Tgt Ion: 156 Resp: 5573

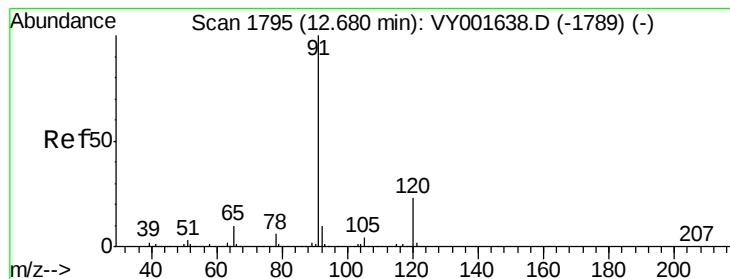
Ion Ratio Lower Upper

156 100

77 5.1 110.1 330.1#

158 0.0 47.9 143.7#





#78

n-propylbenzene

Concen: 1.016 ug/l

RT: 12.69 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Instrument :

MSVOA_Y

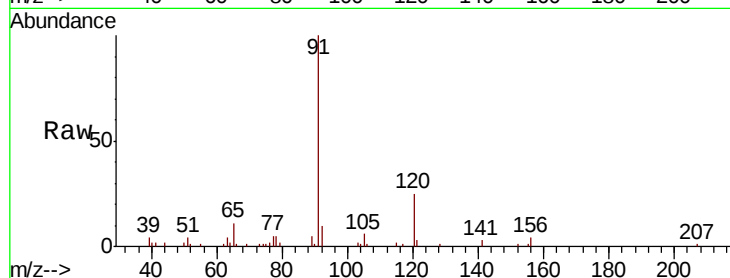
ClientSampleId :

Tot Ion: 91 Resp: 14876

Ion Ratio Lower Upper

91 100

120 23.7 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VY001638.D (-1789) (-)

Ion 120.00 (119.70 to 120.70): VY001638.D (-1789) (-)

12.69

10000

8000

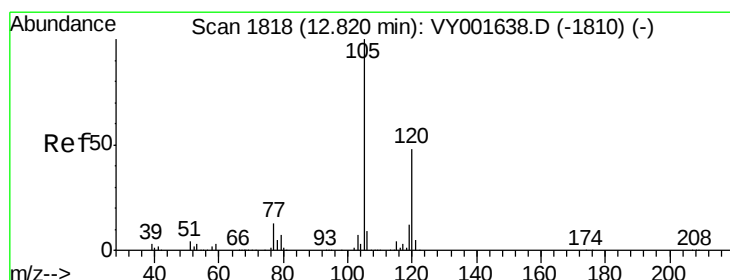
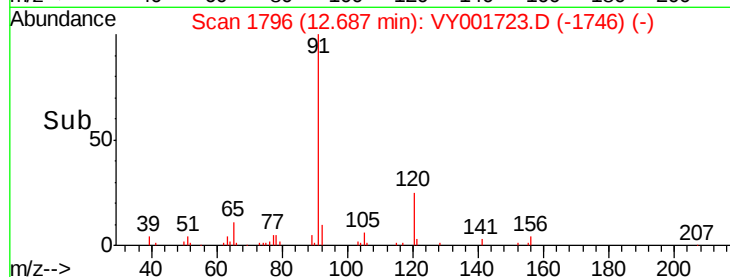
6000

4000

2000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 1.711 ug/l

RT: 12.83 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VY001723.D

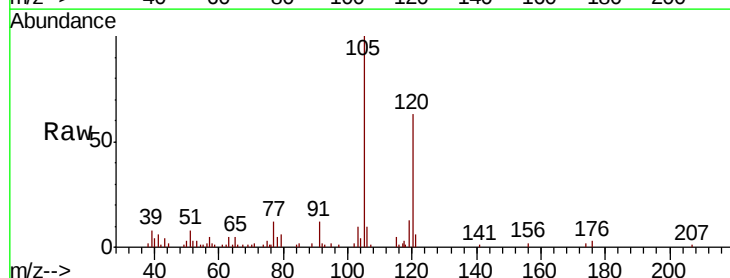
Acq: 20 Feb 2020 14:50

Tgt Ion: 105 Resp: 17027

Ion Ratio Lower Upper

105 100

120 50.5 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VY001638.D (-1810) (-)

Ion 120.00 (119.70 to 120.70): VY001638.D (-1810) (-)

12.83

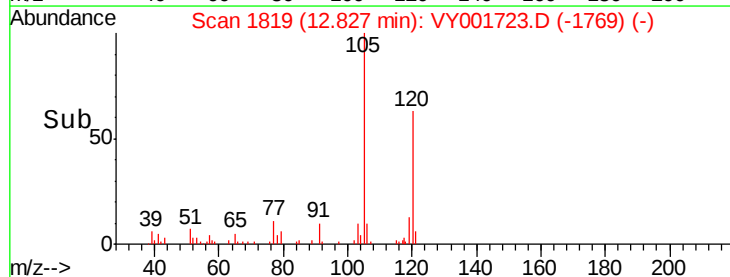
15000

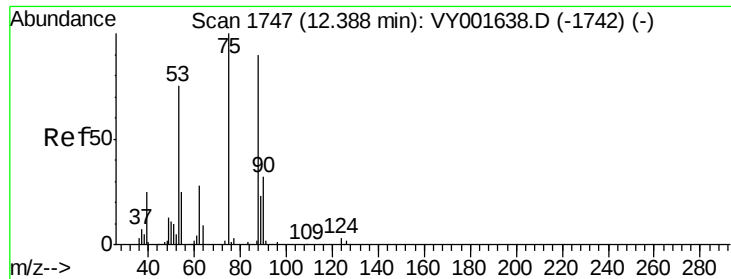
10000

5000

0

Time--> 12.80 12.85 12.90





#81

trans-1,4-Dichloro-2-butene

Concen: 84.039 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. 0.11 min

Lab File: VY001723.D

Acq: 20 Feb 2020 14:50

Instrument :

MSVOA_Y

ClientSampleId :

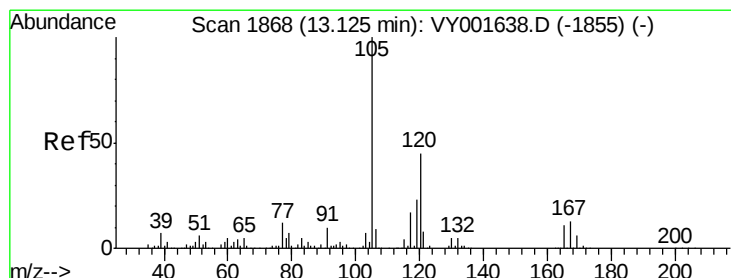
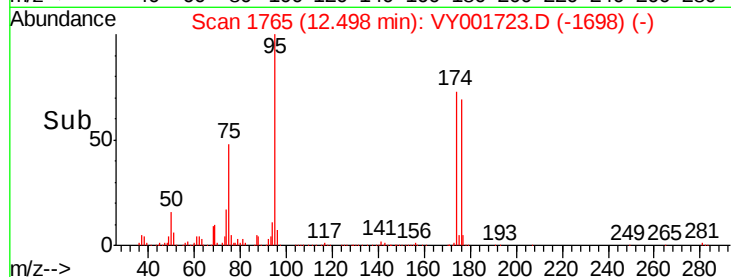
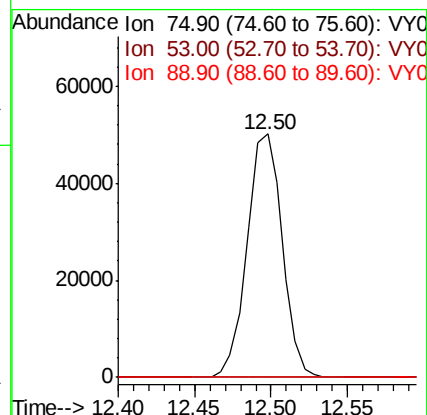
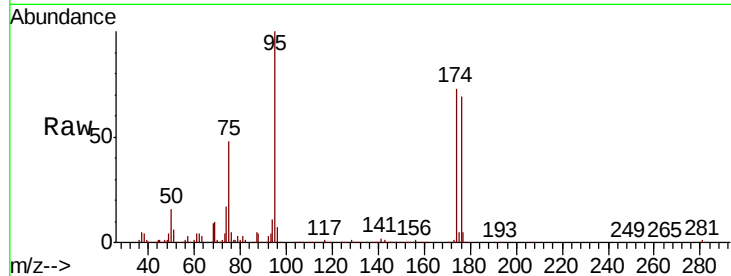
Tot Ion: 75 Resp: 80196

Ion Ratio Lower Upper

75 100

53 0.0 64.5 96.7#

89 0.0 36.3 54.5#



#84

1,2,4-Trimethylbenzene

Concen: 6.578 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY001723.D

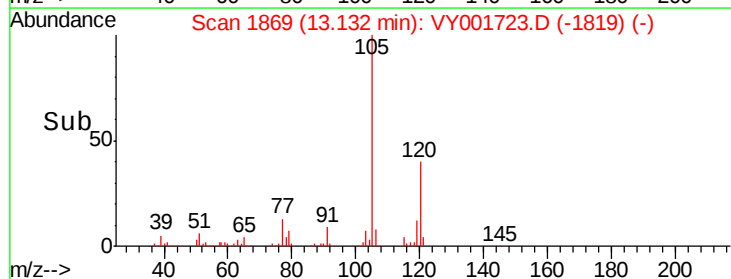
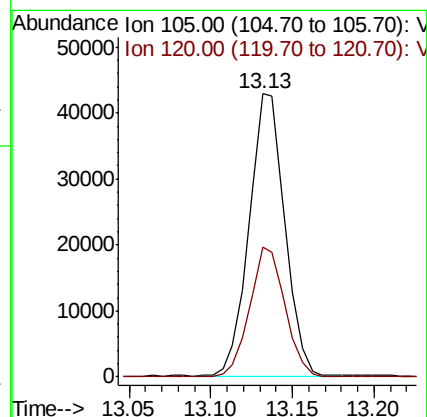
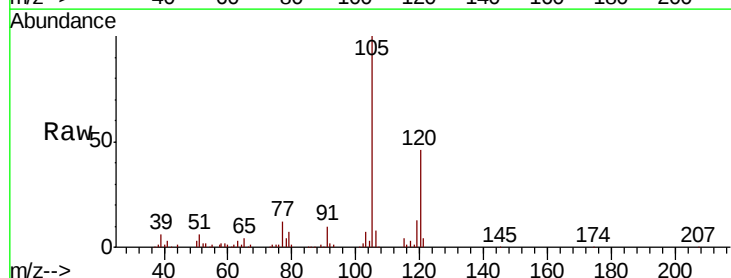
Acq: 20 Feb 2020 14:50

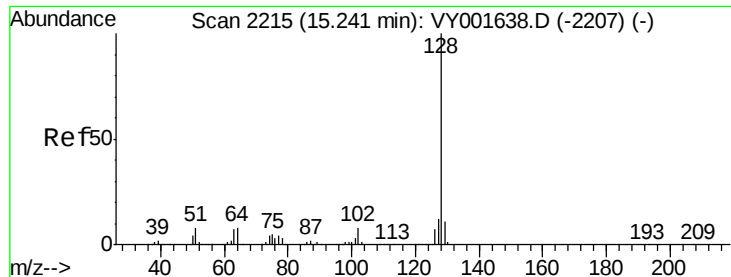
Tgt Ion:105 Resp: 65264

Ion Ratio Lower Upper

105 100

120 45.4 22.4 67.3

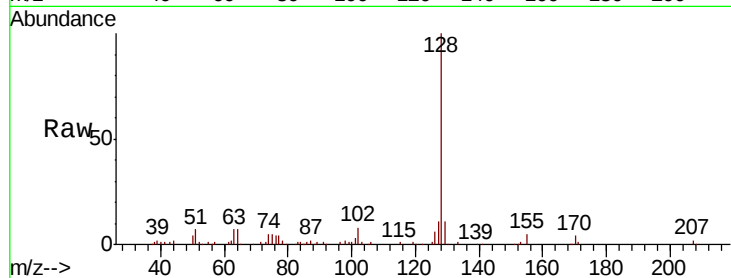




#95
 Naphthalene
 Concen: 4.487 ug/l
 RT: 15.25 min Scan# 2216
 Delta R.T. 0.01 min
 Lab File: VY001723.D
 Acq: 20 Feb 2020 14:50

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.9	14.9
129	12.4	8.6	13.0



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

