

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY051820\
 Data File : VY002705.D
 Acq On : 18 May 2020 12:50
 Operator : SY/MD
 Sample : L2674-01
 Misc : 7.28G/5ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PS-STOCK-4

Quant Time: May 19 01:22:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y051520S.M
 Quant Title : SW846 8260
 QLast Update : Sat May 16 04:52:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	312394	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	490408	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	424214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	178432	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	137862	56.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.84%	
35) Dibromofluoromethane	7.73	113	146062	53.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.94%	
50) Toluene-d8	10.18	98	590494	54.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.38%	
62) 4-Bromofluorobenzene	12.48	95	191777	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	

Target Compounds

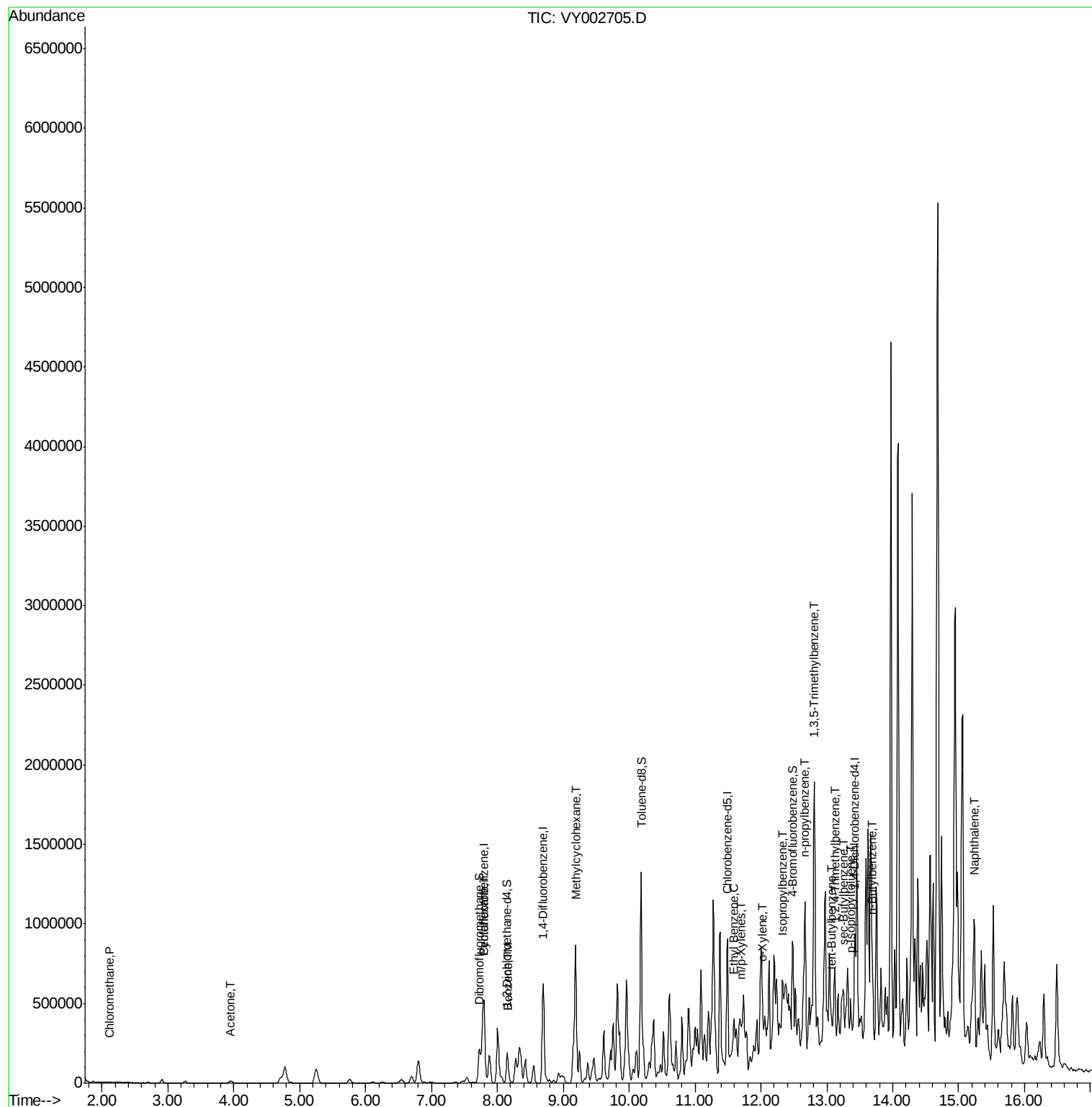
						Qvalue
3) Chloromethane	2.12	50	2565	1.001	ug/l #	88
16) Acetone	3.95	43	11885	23.594	ug/l #	75
31) Cyclohexane	7.78	56	101322	21.421	ug/l #	78
39) Methylcyclohexane	9.19	83	360982	64.666	ug/l	93
40) Benzene	8.16	78	15586	1.287	ug/l	99
67) Ethyl Benzene	11.59	91	126849	8.813	ug/l	100
68) m/p-Xylenes	11.70	106	55375	9.889	ug/l	98
69) o-Xylene	12.03	106	11767	2.239	ug/l	89
73) Isopropylbenzene	12.33	105	234259	20.092	ug/l	100
78) n-propylbenzene	12.67	91	684980	50.503	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	656911	67.055	ug/l	99
83) tert-Butylbenzene	13.08	119	33074	3.815	ug/l	95
84) 1,2,4-Trimethylbenzene	13.12	105	225415	23.023	ug/l	99
85) sec-Butylbenzene	13.25	105	150377	12.569	ug/l #	58
86) p-Isopropyltoluene	13.37	119	76894	6.866	ug/l	97
89) n-Butylbenzene	13.69	91	236924m	23.038	ug/l	
95) Naphthalene	15.23	128	623483	89.818	ug/l	99

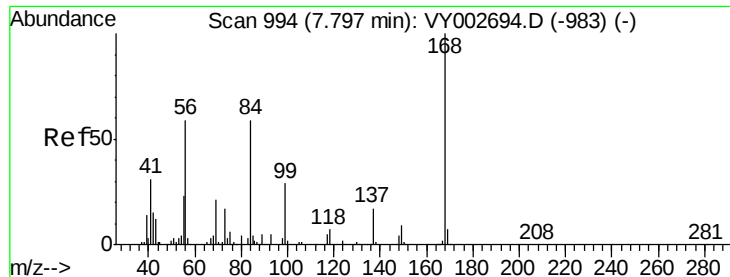
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

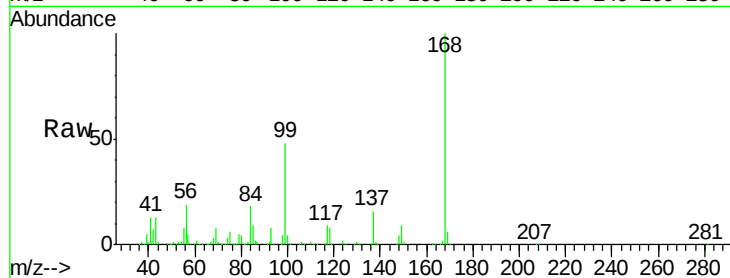
PS-STOCK-4

Tot Ion:168 Resp: 312394

Ion Ratio Lower Upper

168 100

99 48.1 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002694.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002694.D (-983) (-)

7.80

150000

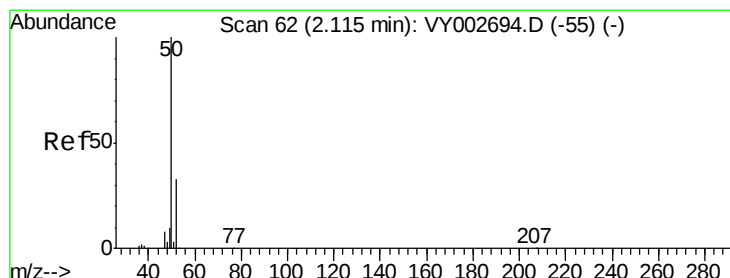
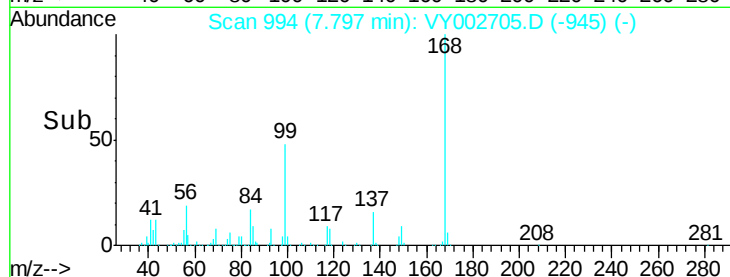
100000

50000

0

7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 1.001 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY002705.D

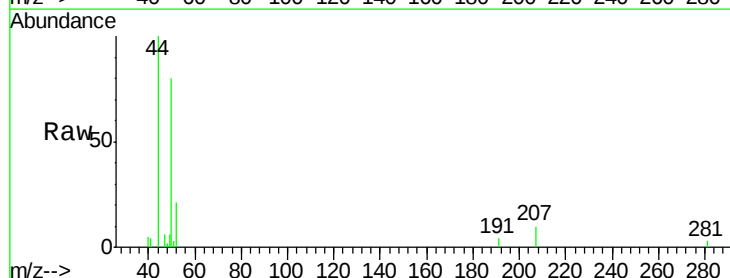
Acq: 18 May 2020 12:50

Tgt Ion: 50 Resp: 2565

Ion Ratio Lower Upper

50 100

52 26.2 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VY002694.D (-55) (-)

Ion 51.90 (51.60 to 52.60): VY002694.D (-55) (-)

2.12

2000

1500

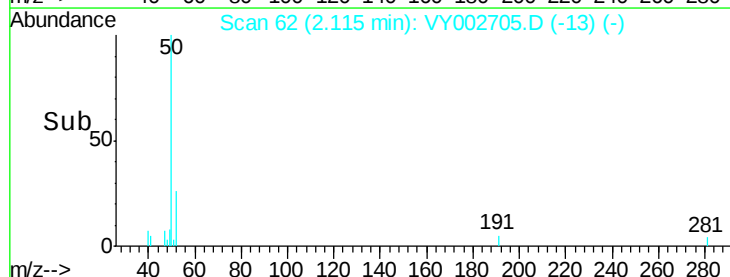
1000

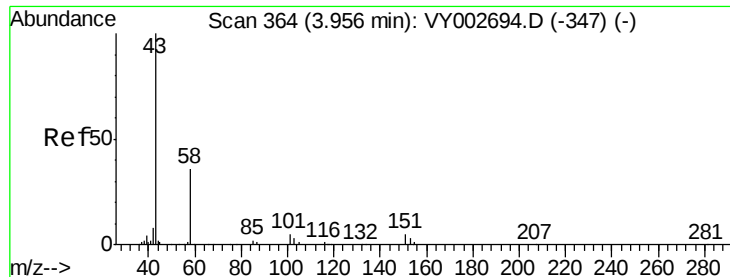
500

0

2.05 2.10 2.15 2.20

Time-->





#16

Acetone

Concen: 23.594 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

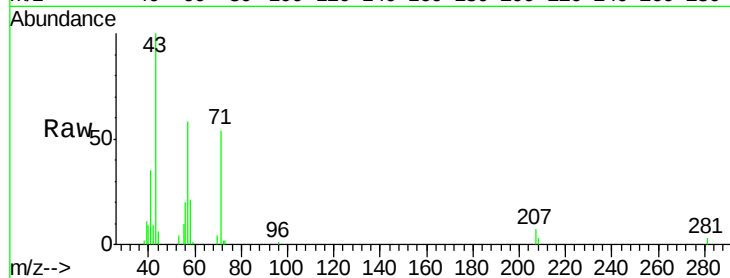
PS-STOCK-4

Tot Ion: 43 Resp: 11885

Ion Ratio Lower Upper

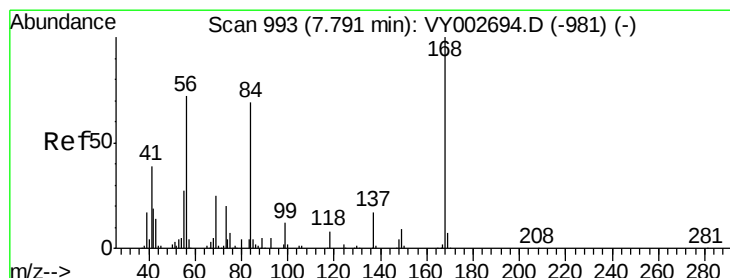
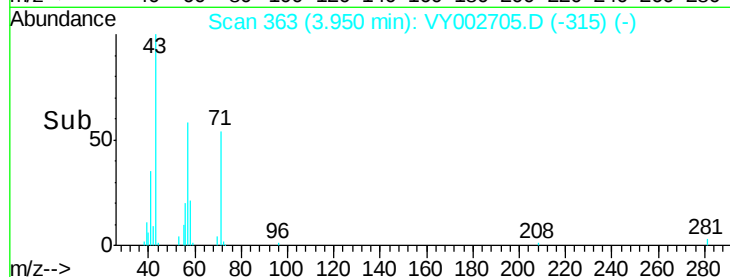
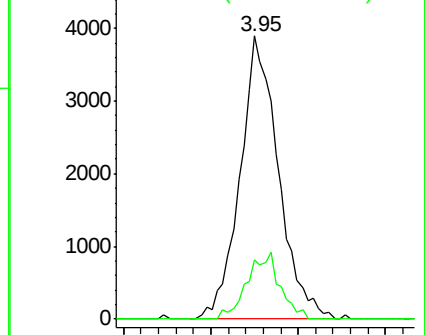
43 100

58 21.1 28.6 43.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#31

Cyclohexane

Concen: 21.421 ug/l

RT: 7.78 min Scan# 992

Delta R.T. -0.01 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

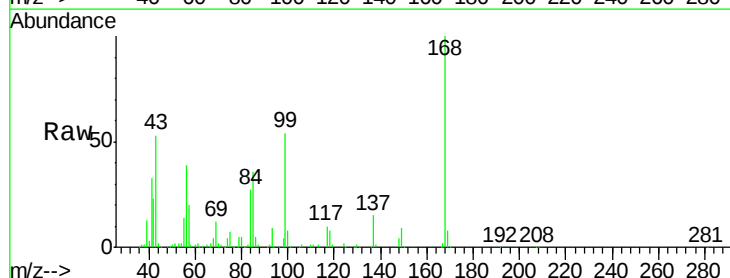
Tgt Ion: 56 Resp: 101322

Ion Ratio Lower Upper

56 100

69 29.2 27.7 41.5

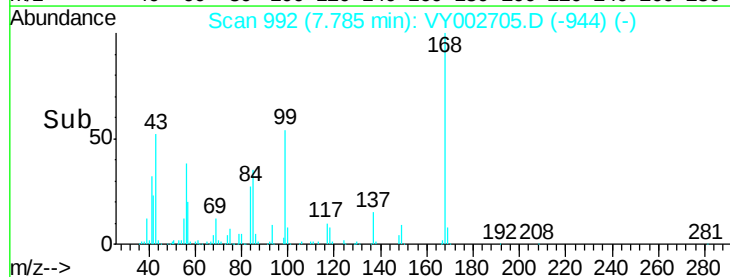
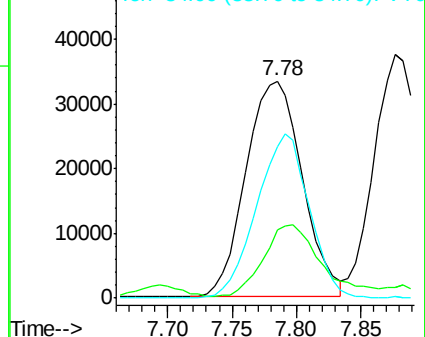
84 70.2 77.0 115.4#

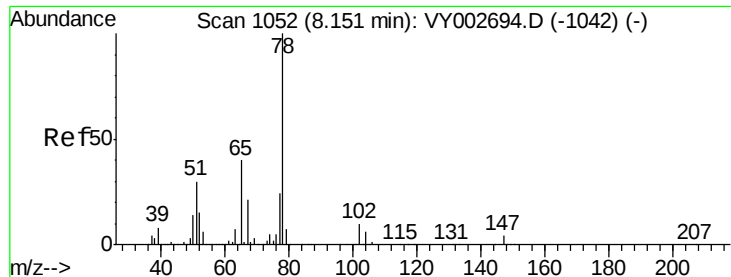


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 56.418 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

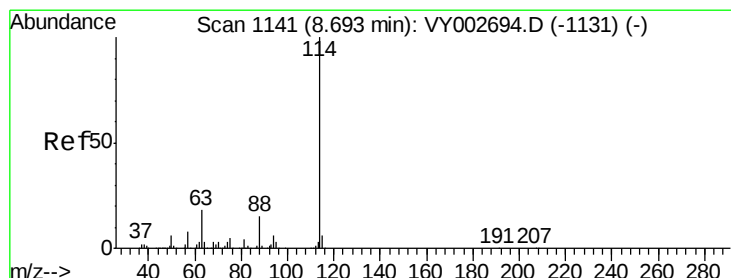
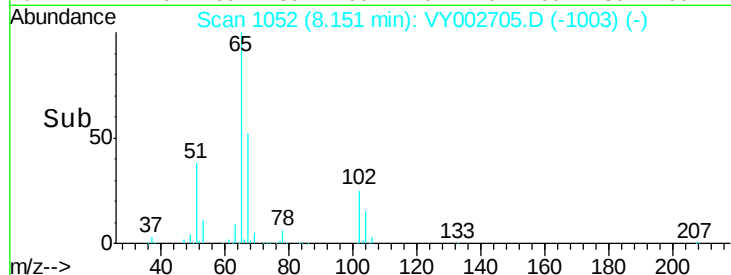
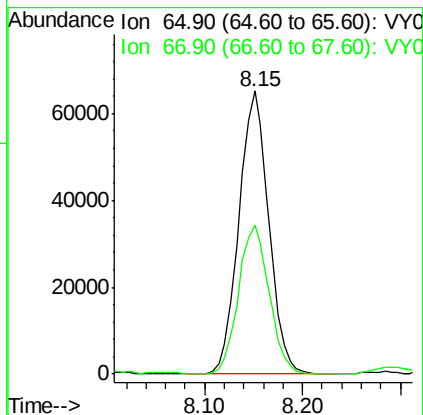
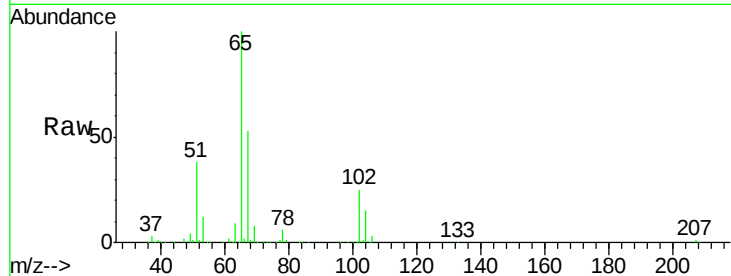
PS-STOCK-4

Tot Ion: 65 Resp: 137862

Ion Ratio Lower Upper

65 100

67 53.6 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

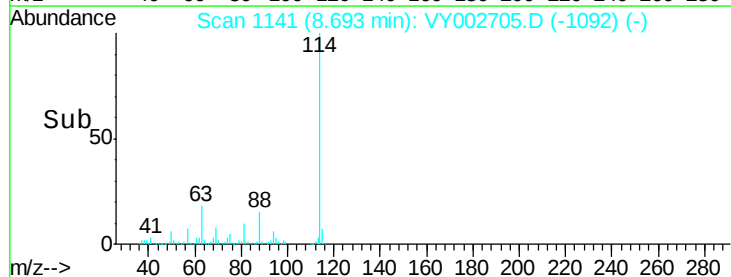
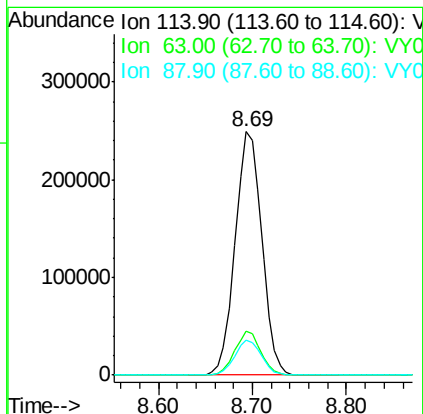
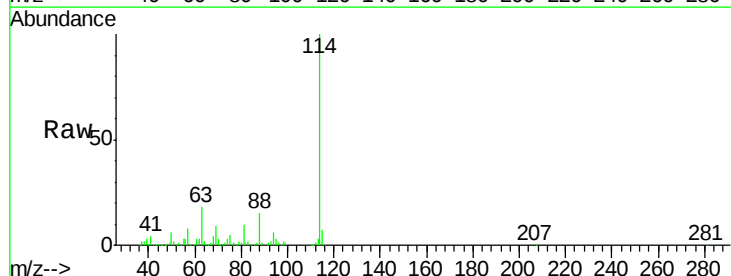
Tgt Ion: 114 Resp: 490408

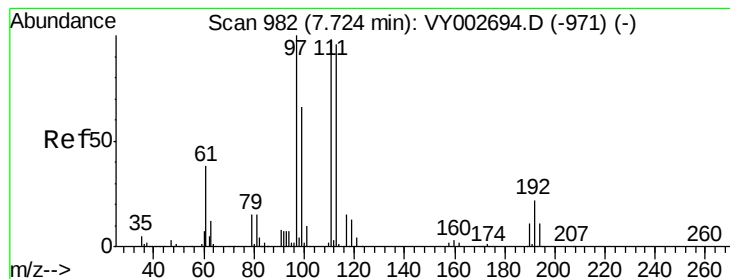
Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.4

88 14.6 0.0 29.4





#35

Dibromofluoromethane

Concen: 53.968 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.01 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

PS-STOCK-4

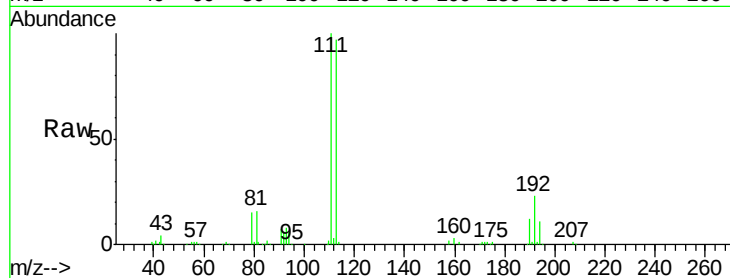
Tot Ion:113 Resp: 146062

Ion Ratio Lower Upper

113 100

111 101.4 81.9 122.9

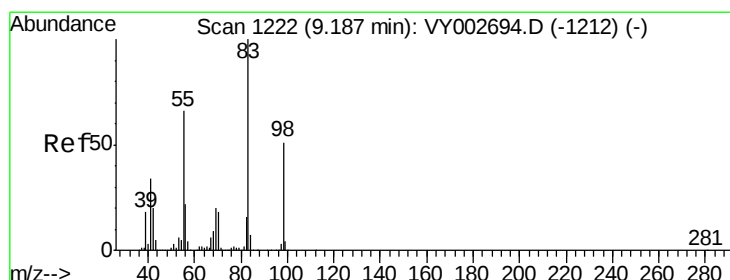
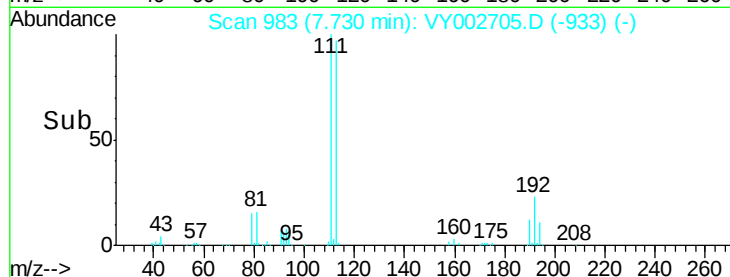
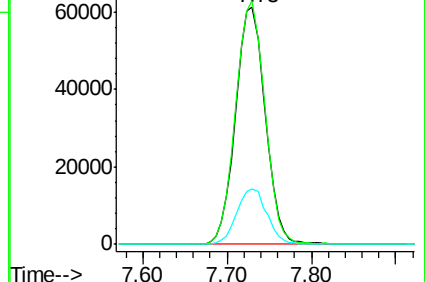
192 23.7 18.6 27.8



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



#39

Methylcyclohexane

Concen: 64.666 ug/l

RT: 9.19 min Scan# 1222

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

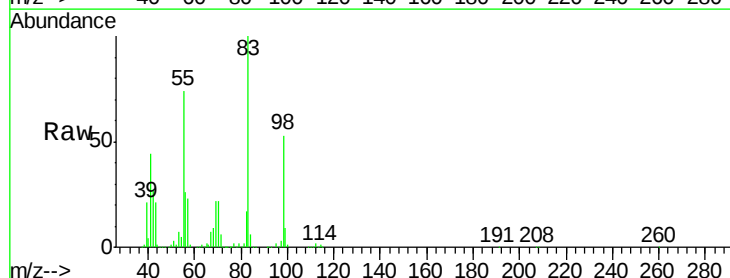
Tgt Ion: 83 Resp: 360982

Ion Ratio Lower Upper

83 100

55 74.4 53.0 79.6

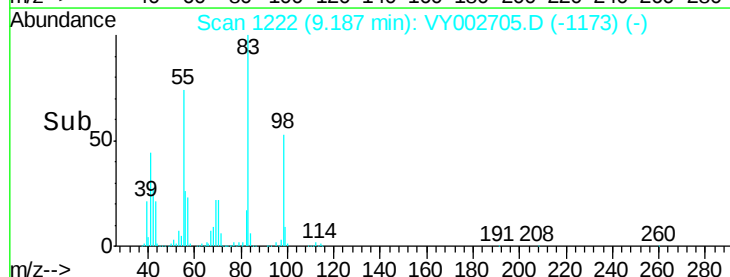
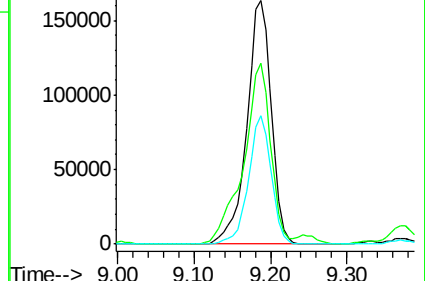
98 52.8 40.8 61.2

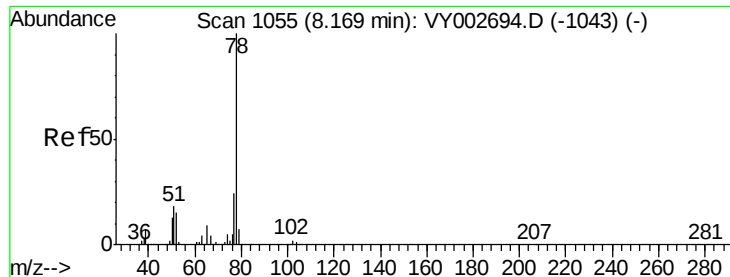


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#40

Benzene

Concen: 1.287 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

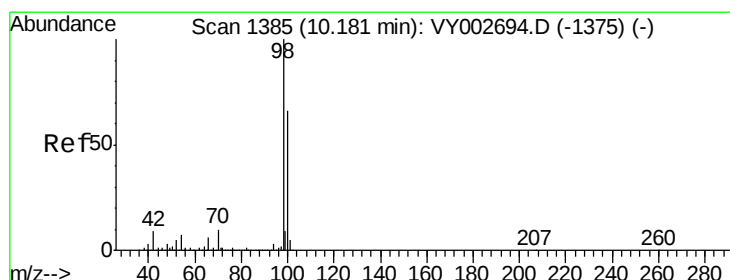
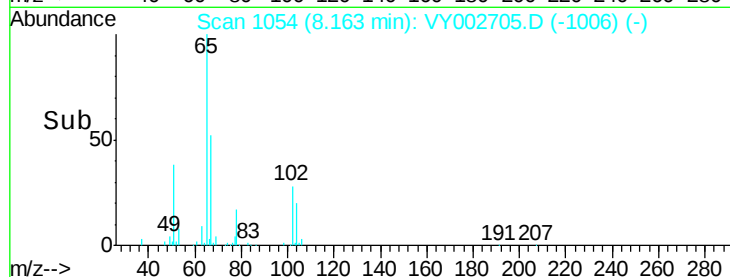
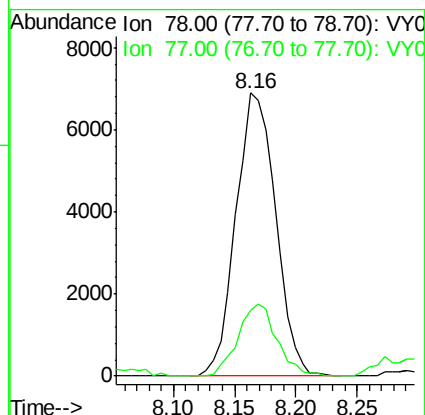
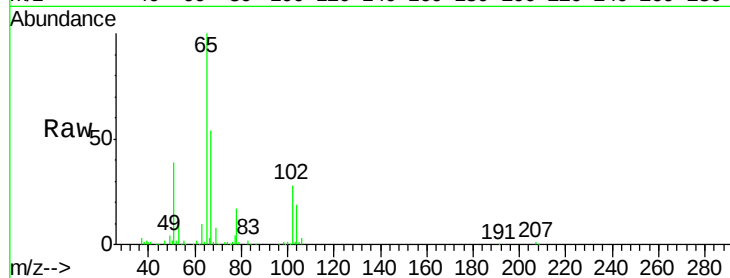
PS-STOCK-4

Tot Ion: 78 Resp: 15586

Ion Ratio Lower Upper

78 100

77 23.4 19.2 28.8



#50

Toluene-d8

Concen: 54.192 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002705.D

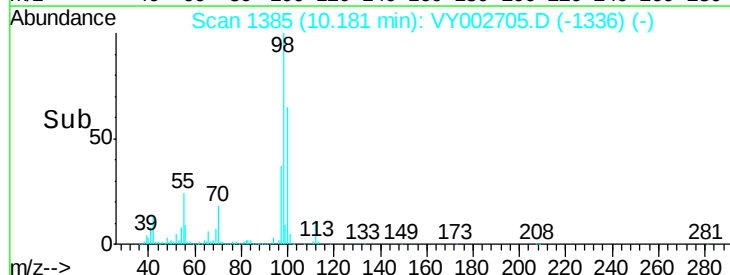
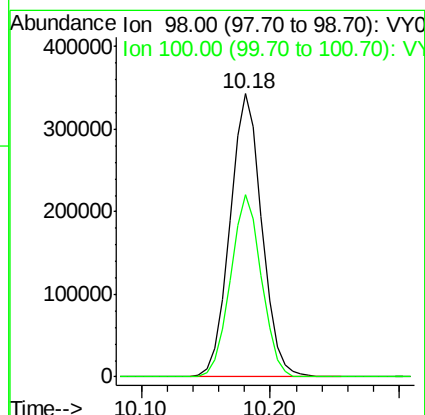
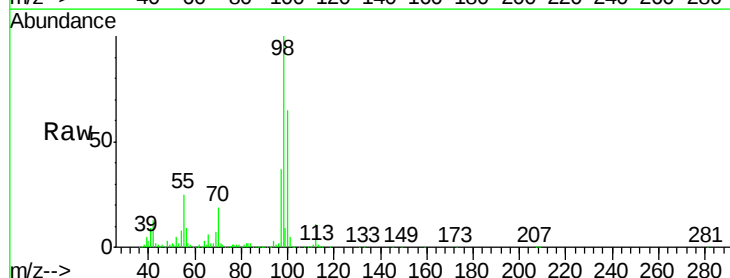
Acq: 18 May 2020 12:50

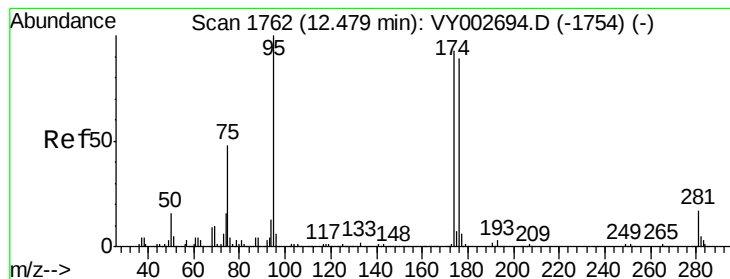
Tgt Ion: 98 Resp: 590494

Ion Ratio Lower Upper

98 100

100 62.7 52.3 78.5





#62

4-Bromofluorobenzene

Concen: 51.207 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

PS-STOCK-4

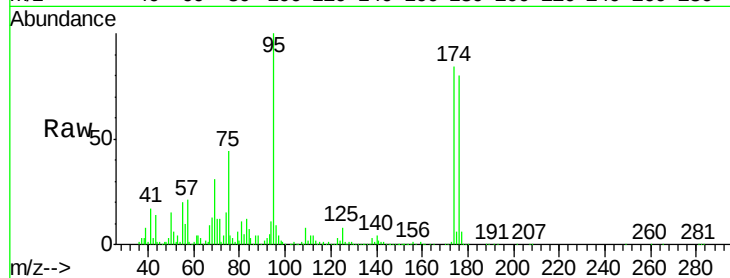
Tot Ion: 95 Resp: 191777

Ion Ratio Lower Upper

95 100

174 86.6 0.0 191.4

176 81.5 0.0 186.0

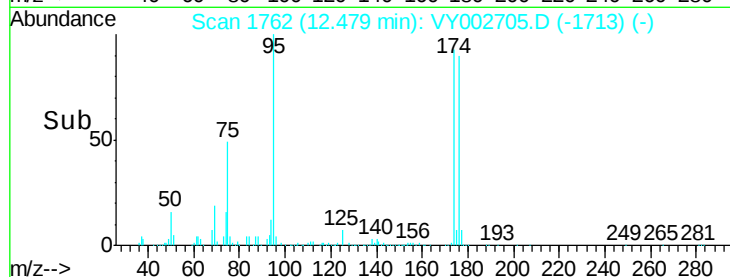


Abundance Ion 94.90 (94.60 to 95.60): VY002694.D (-1754) (-)

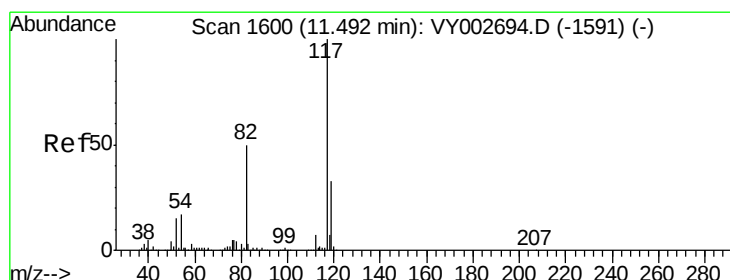
Ion 173.80 (173.50 to 174.50): VY002694.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY002694.D (-1754) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

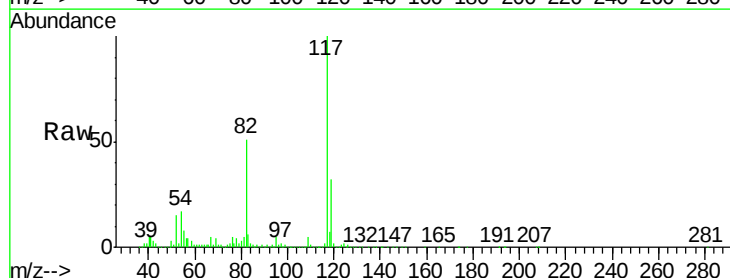
Tgt Ion: 117 Resp: 424214

Ion Ratio Lower Upper

117 100

82 49.3 40.3 60.5

119 32.0 26.2 39.4

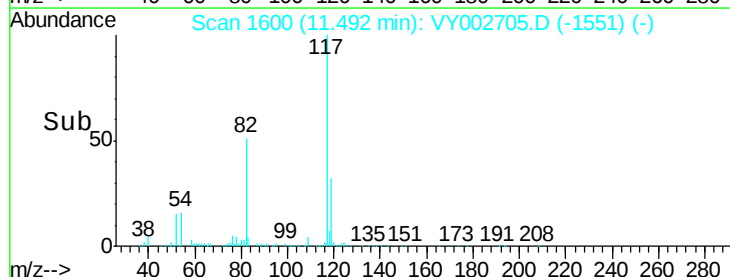


Abundance Ion 116.90 (116.60 to 117.60): VY002694.D (-1591) (-)

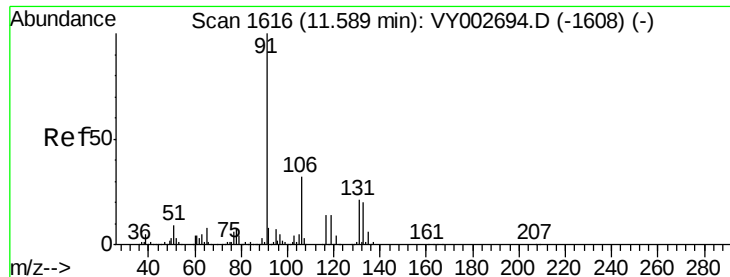
Ion 82.00 (81.70 to 82.70): VY002694.D (-1591) (-)

Ion 118.90 (118.60 to 119.60): VY002694.D (-1591) (-)

Time-->



Time-->



#67

Ethyl Benzene

Concen: 8.813 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampled :

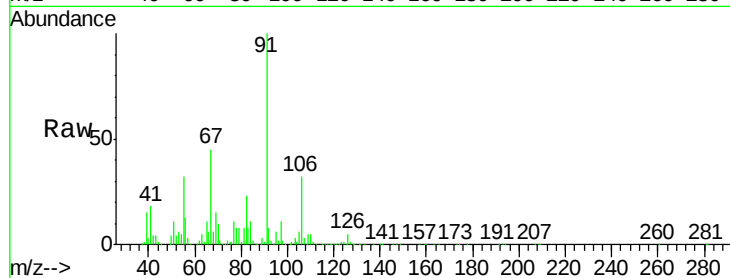
PS-STOCK-4

Tot Ion: 91 Resp: 126849

Ion Ratio Lower Upper

91 100

106 32.7 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VY002694.D (-1608) (-)

Ion 106.00 (105.70 to 106.70): VY002694.D (-1608) (-)

80000

60000

40000

20000

0

11.50

11.60

11.70

11.80

11.90

12.00

12.10

12.20

12.30

12.40

12.50

12.60

12.70

12.80

12.90

13.00

13.10

13.20

13.30

13.40

13.50

13.60

13.70

13.80

13.90

14.00

14.10

14.20

14.30

14.40

14.50

14.60

14.70

14.80

14.90

15.00

15.10

15.20

15.30

15.40

15.50

15.60

15.70

15.80

15.90

16.00

16.10

16.20

16.30

16.40

16.50

16.60

16.70

16.80

16.90

17.00

17.10

17.20

17.30

17.40

17.50

17.60

17.70

17.80

17.90

18.00

18.10

18.20

18.30

18.40

18.50

18.60

18.70

18.80

18.90

19.00

19.10

19.20

19.30

19.40

19.50

19.60

19.70

19.80

19.90

20.00

20.10

20.20

20.30

20.40

20.50

20.60

20.70

20.80

20.90

21.00

21.10

21.20

21.30

21.40

21.50

21.60

21.70

21.80

21.90

22.00

22.10

22.20

22.30

22.40

22.50

22.60

22.70

22.80

22.90

23.00

23.10

23.20

23.30

23.40

23.50

23.60

23.70

23.80

23.90

24.00

24.10

24.20

24.30

24.40

24.50

24.60

24.70

24.80

24.90

25.00

25.10

25.20

25.30

25.40

25.50

25.60

25.70

25.80

25.90

26.00

26.10

26.20

26.30

26.40

26.50

26.60

26.70

26.80

26.90

27.00

27.10

27.20

27.30

27.40

27.50

27.60

27.70

27.80

27.90

28.00

28.10

28.20

28.30

28.40

28.50

28.60

28.70

28.80

28.90

29.00

29.10

29.20

29.30

29.40

29.50

29.60

29.70

29.80

29.90

30.00

30.10

30.20

30.30

30.40

30.50

30.60

30.70

30.80

30.90

31.00

31.10

31.20

31.30

31.40

31.50

31.60

31.70

31.80

31.90

32.00

32.10

32.20

32.30

32.40

32.50

32.60

32.70

32.80

32.90

33.00

33.10

33.20

33.30

33.40

33.50

33.60

33.70

33.80

33.90

34.00

34.10

34.20

34.30

34.40

34.50

34.60

34.70

34.80

34.90

35.00

35.10

35.20

35.30

35.40

35.50

35.60

35.70

35.80

35.90

36.00

36.10

36.20

36.30

36.40

36.50

36.60

36.70

36.80

36.90

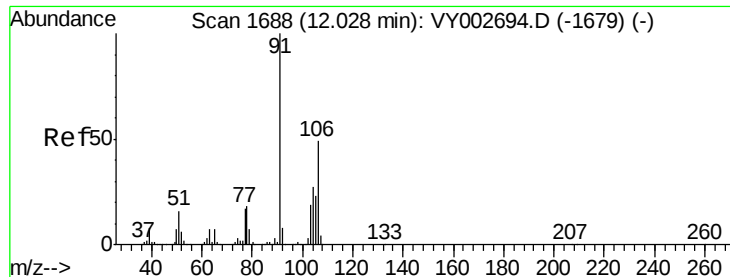
37.00

37.10

37.20

37.30

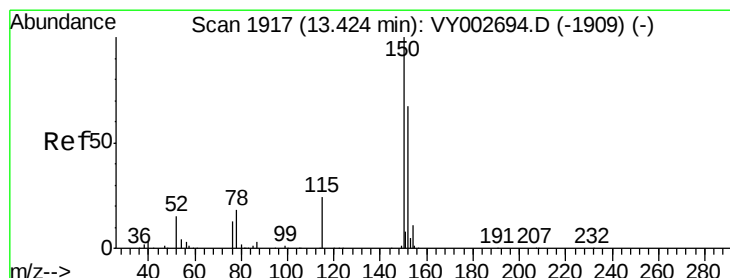
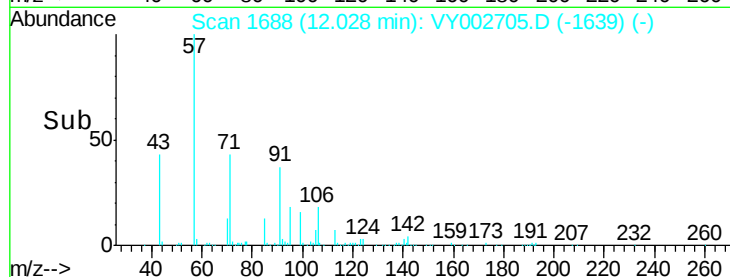
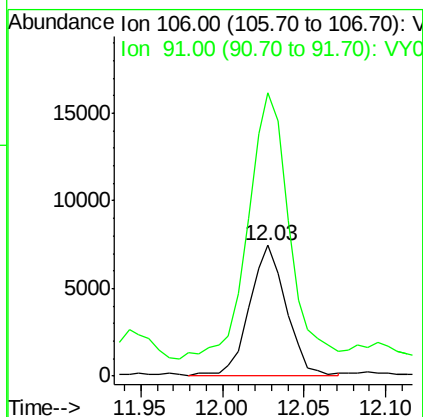
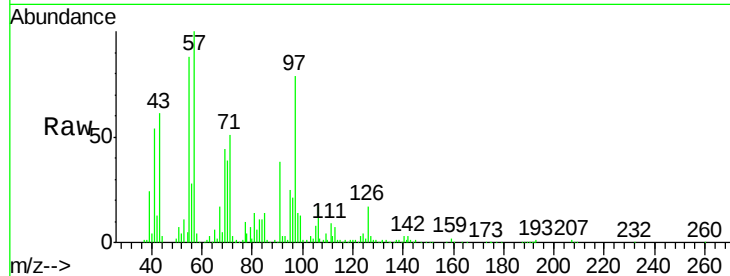
37.40



#69
o-Xylene
Concen: 2.239 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY002705.D
Acq: 18 May 2020 12:50

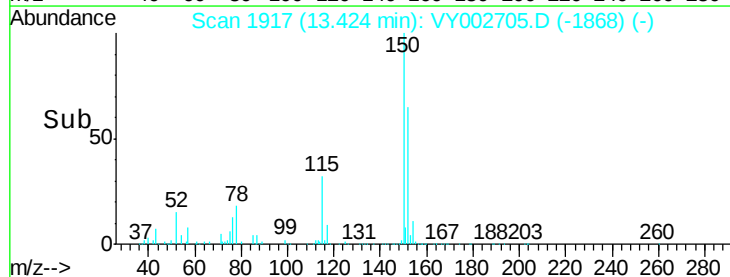
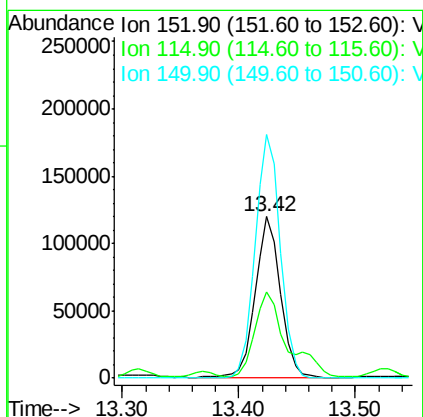
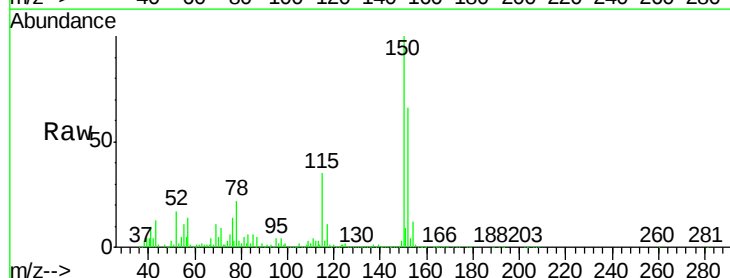
Instrument :
MSVOA_Y
ClientSampled :
PS-STOCK-4

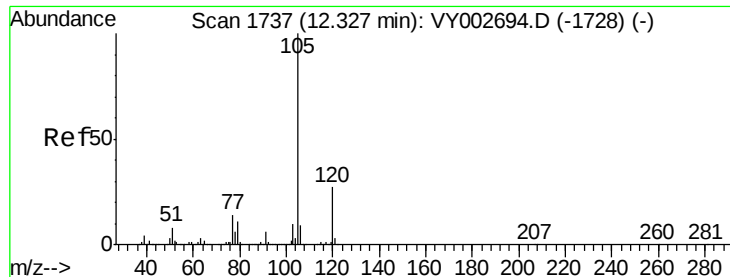
Tot Ion:106 Resp: 11767
Ion Ratio Lower Upper
106 100
91 223.5 103.5 310.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY002705.D
Acq: 18 May 2020 12:50

Tgt Ion:152 Resp: 178432
Ion Ratio Lower Upper
152 100
115 66.9 27.2 81.6
150 150.8 0.0 343.8





#73

Isopropylbenzene

Concen: 20.092 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

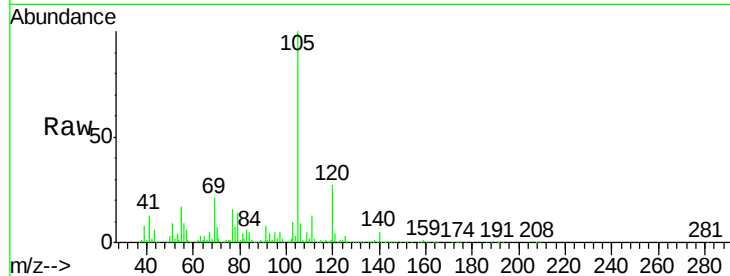
PS-STOCK-4

Tot Ion:105 Resp: 234259

Ion Ratio Lower Upper

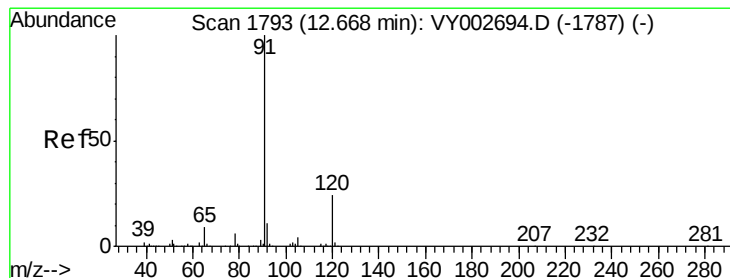
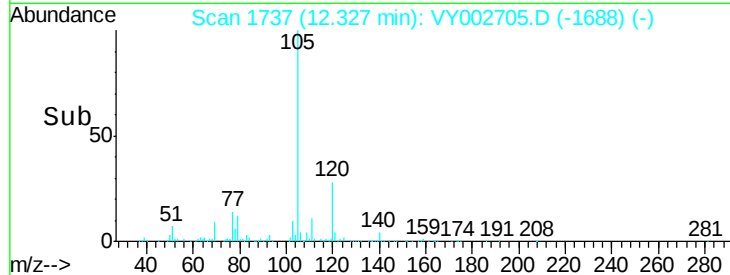
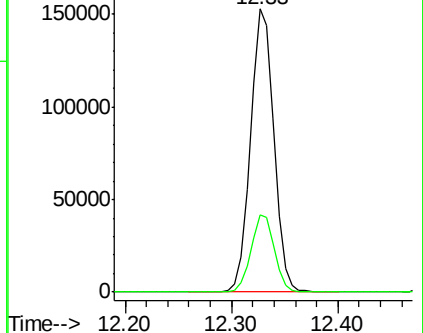
105 100

120 27.4 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 50.503 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY002705.D

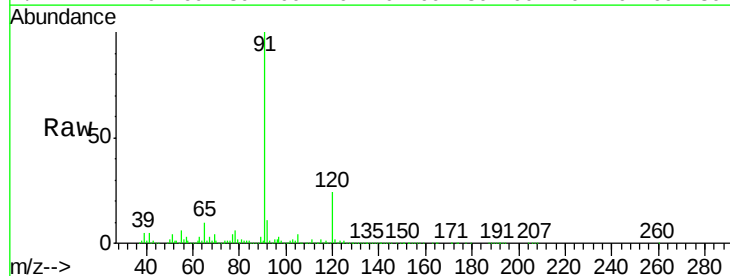
Acq: 18 May 2020 12:50

Tgt Ion: 91 Resp: 684980

Ion Ratio Lower Upper

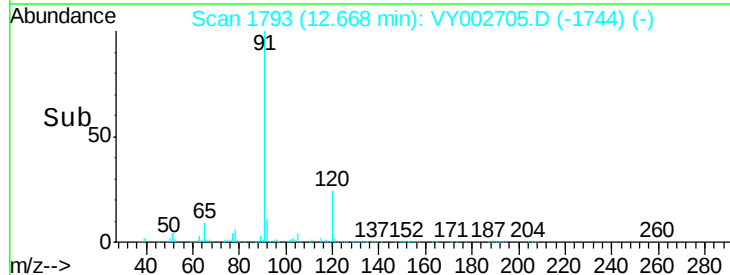
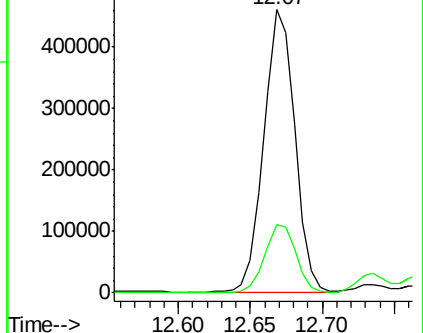
91 100

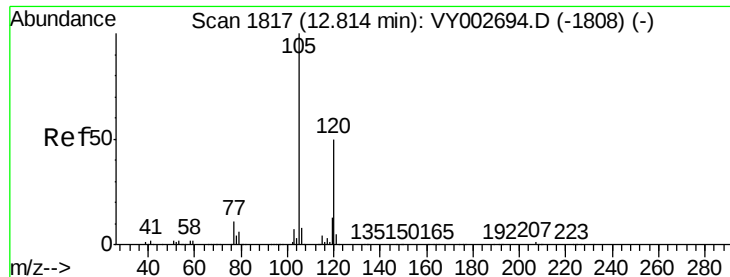
120 24.4 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V



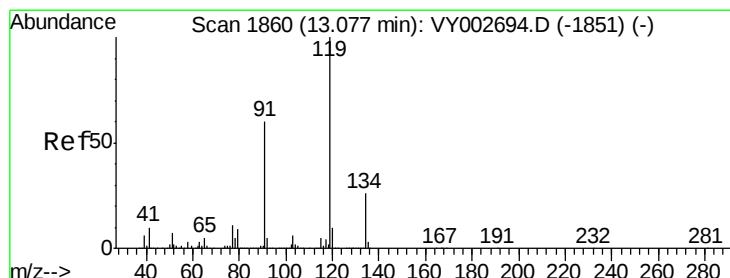
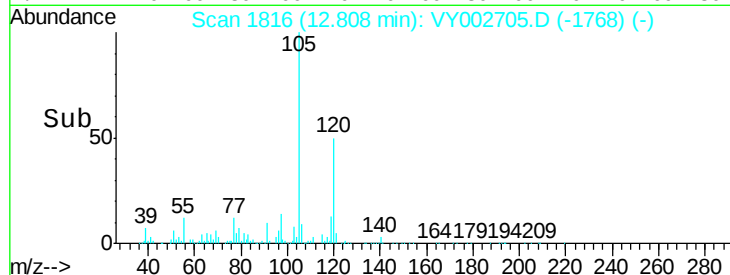
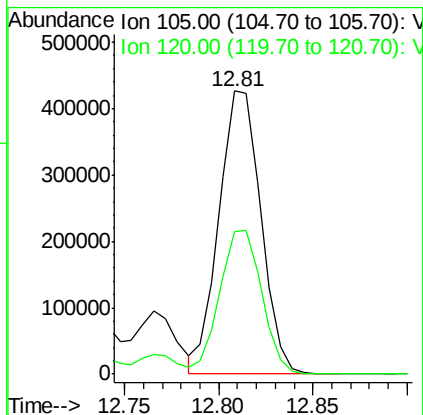
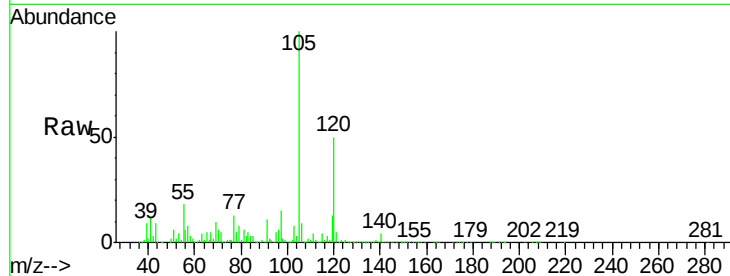


#80

1,3,5-Trimethylbenzene
Concen: 67.055 ug/l
RT: 12.81 min Scan# 1816
Delta R.T. -0.01 min
Lab File: VY002705.D
Acq: 18 May 2020 12:50

Instrument :
MSVOA_Y
ClientSampleId :
PS-STOCK-4

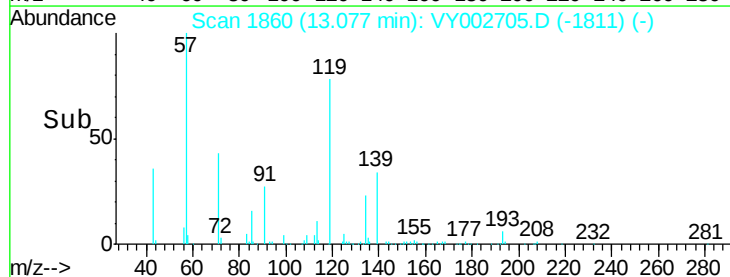
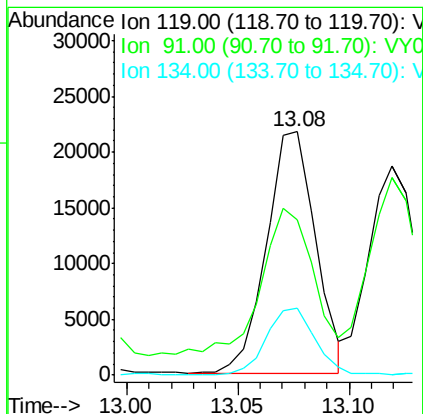
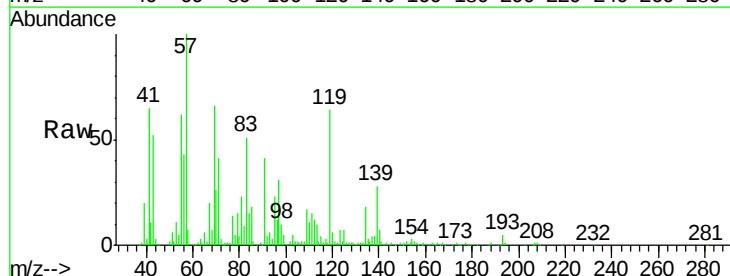
Tot Ion:105 Resp: 656911
Ion Ratio Lower Upper
105 100
120 51.0 25.1 75.4

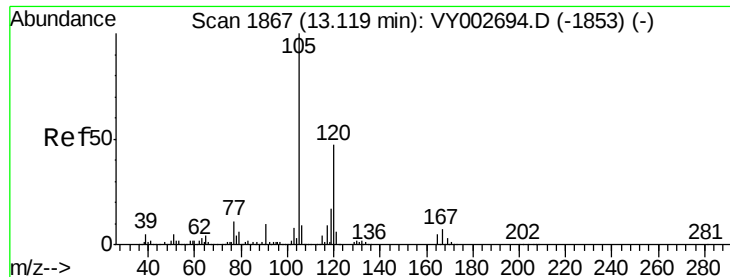


#83

tert-Butylbenzene
Concen: 3.815 ug/l
RT: 13.08 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VY002705.D
Acq: 18 May 2020 12:50

Tgt Ion:119 Resp: 33074
Ion Ratio Lower Upper
119 100
91 65.3 30.4 91.2
134 28.2 13.4 40.2





#84

1,2,4-Trimethylbenzene

Concen: 23.023 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

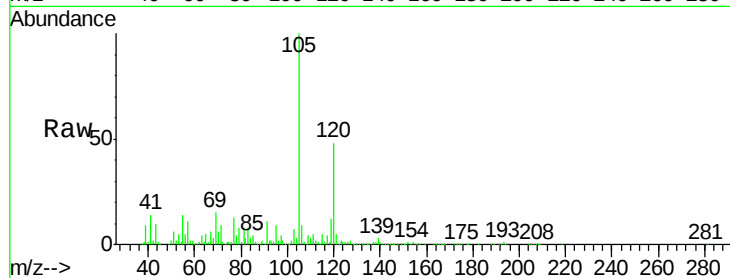
PS-STOCK-4

Tot Ion:105 Resp: 225415

Ion Ratio Lower Upper

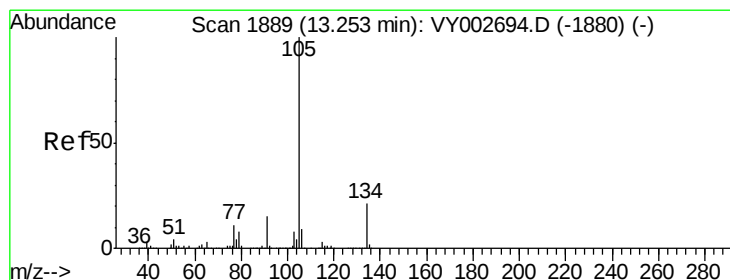
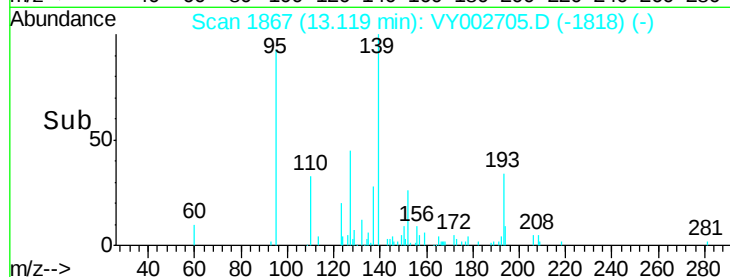
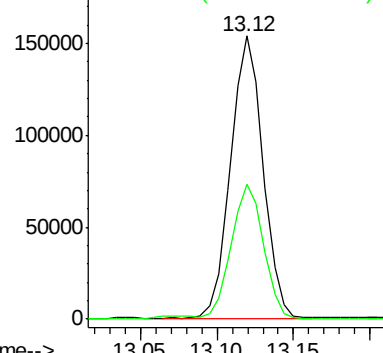
105 100

120 47.6 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 12.569 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY002705.D

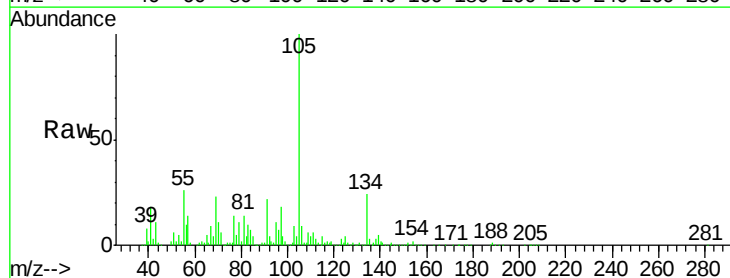
Acq: 18 May 2020 12:50

Tgt Ion:105 Resp: 150377

Ion Ratio Lower Upper

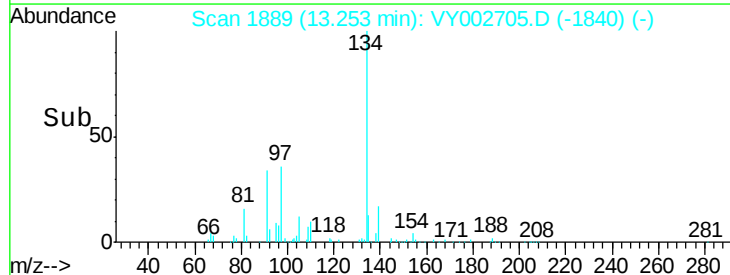
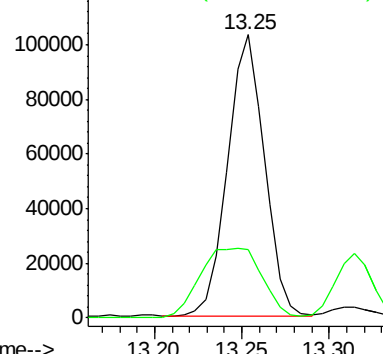
105 100

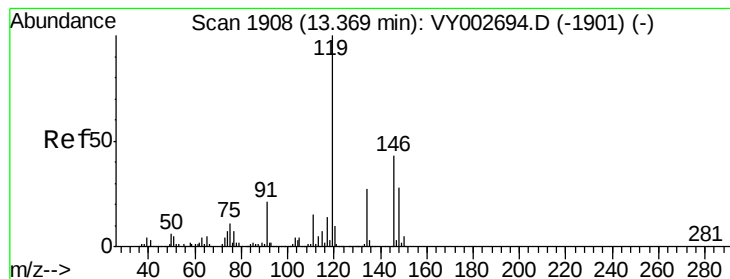
134 41.5 10.8 32.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86

p-Isopropyltoluene

Concen: 6.866 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampled :

PS-STOCK-4

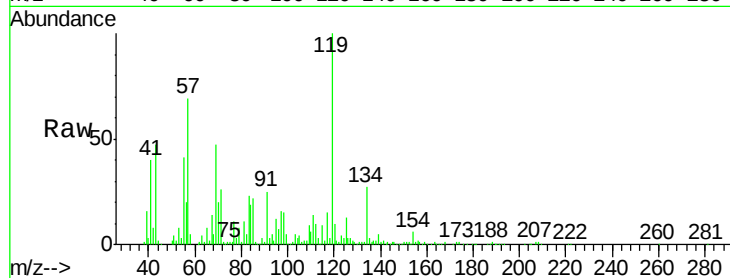
Tot Ion:119 Resp: 76894

Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.5

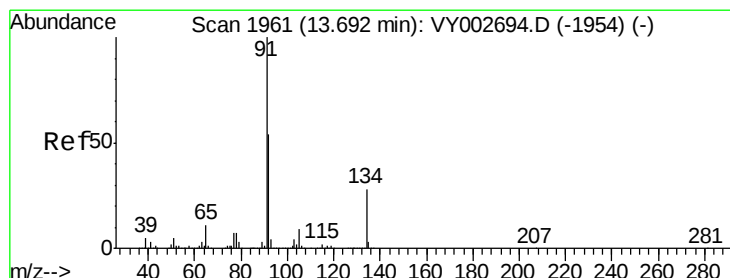
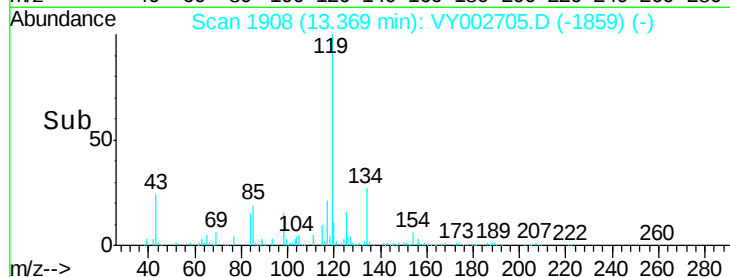
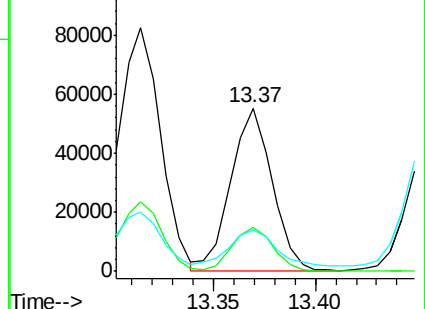
91 24.3 10.8 32.3



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: 23.038 ug/l m

RT: 13.69 min Scan# 1961

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

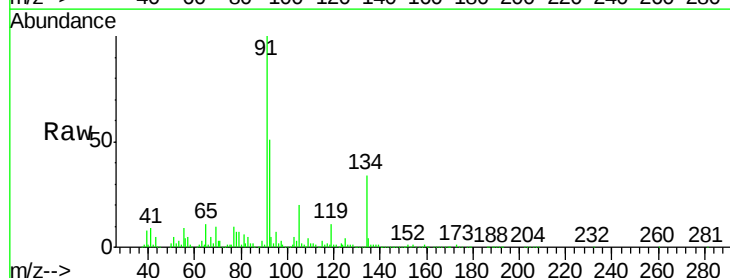
Tgt Ion: 91 Resp: 236924

Ion Ratio Lower Upper

91 100

92 60.4 26.8 80.4

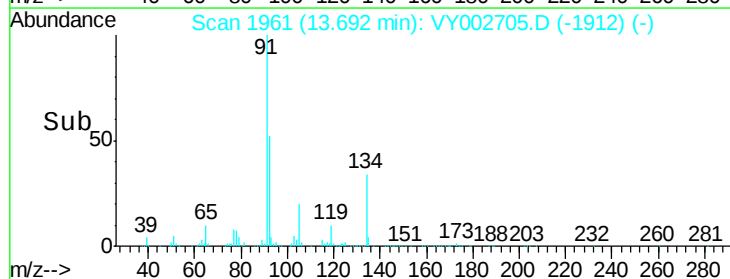
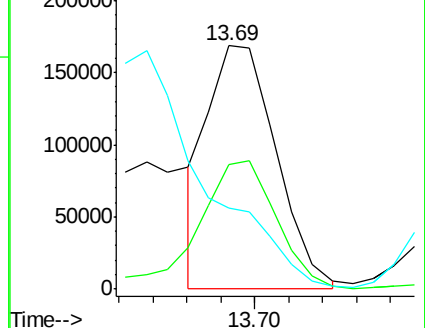
134 0.0 14.5 43.5#

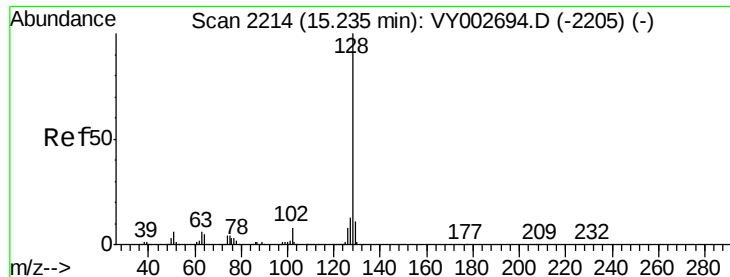


Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 89.818 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY002705.D

Acq: 18 May 2020 12:50

Instrument :

MSVOA_Y

ClientSampleId :

PS-STOCK-4

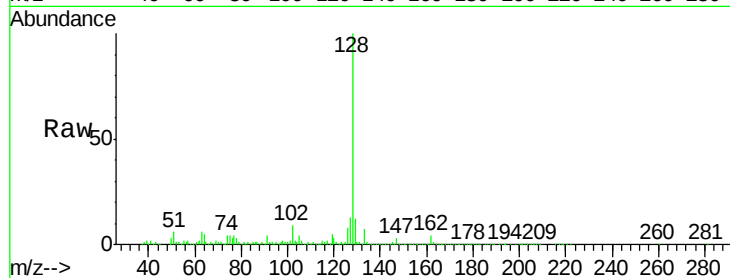
Tot Ion:128 Resp: 623483

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 12.0 8.7 13.1



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

