

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\  
 Data File : BF121759.D  
 Acq On : 1 Oct 2020 1:41  
 Operator : JU/CG  
 Sample : L4053-09  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-231

Quant Time: Oct 01 04:34:12 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 29 11:12:14 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 155676   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.06  | 136  | 620236   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.81  | 164  | 323454   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.30 | 188  | 595596   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.93 | 240  | 424109   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.37 | 264  | 368300   | 20.00 | ng    | -0.01    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.42  | 112 | 24173   | 2.31   | ng | 0.01  |
| 7) Phenol-d6                | 6.44  | 99  | 1099726 | 80.02  | ng | 0.01  |
| 23) Nitrobenzene-d5         | 7.35  | 82  | 1040866 | 90.10  | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.60 | 330 | 502364  | 124.96 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 9.14  | 172 | 1798210 | 84.20  | ng | -0.01 |
| 79) Terphenyl-d14           | 12.89 | 244 | 1875211 | 89.58  | ng | 0.00  |

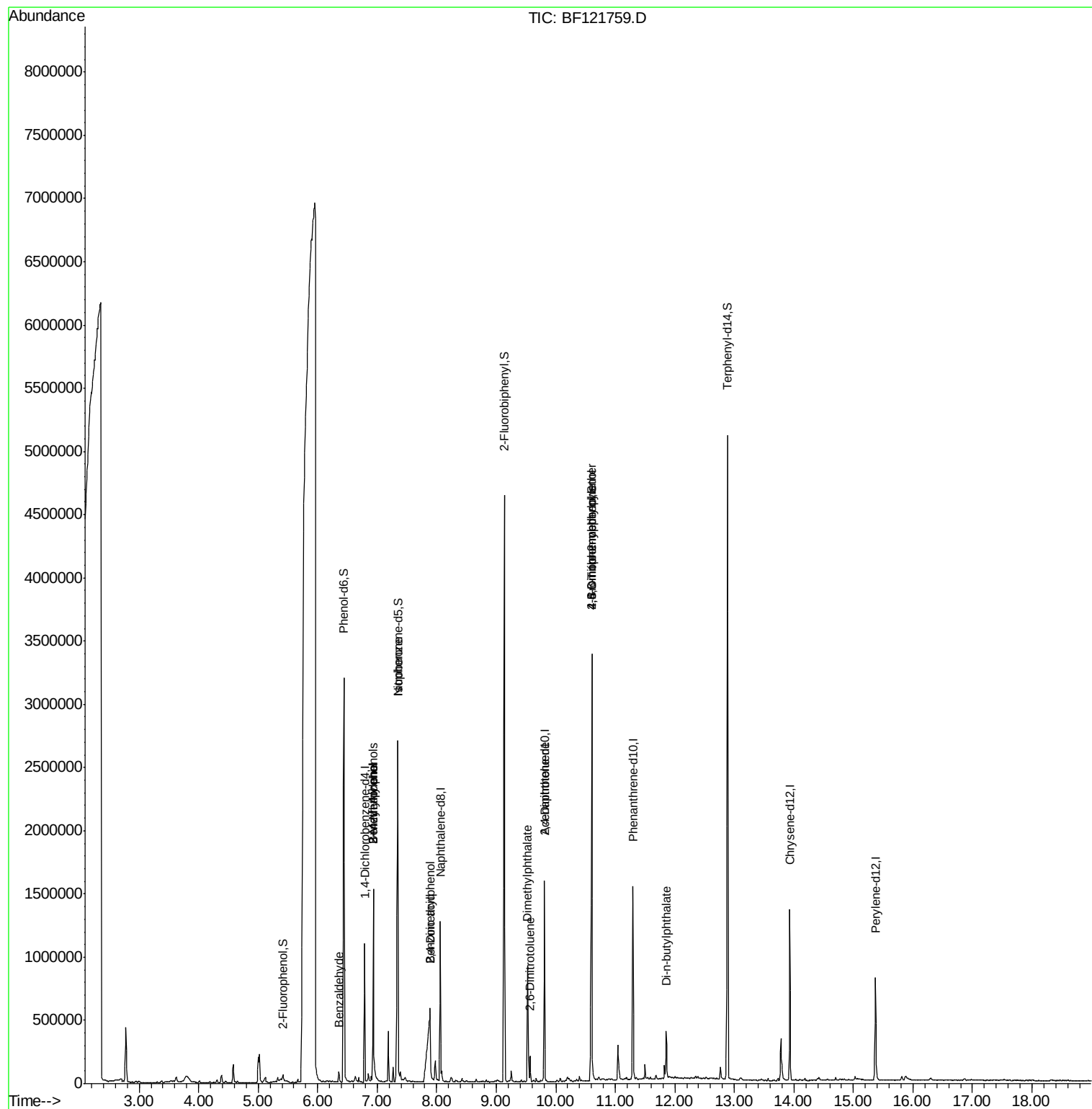
|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 9) Benzaldehyde                | 6.36  | 77  | 18267   | 2.033  | ng | 89   |
| 15) Benzyl Alcohol             | 6.93  | 79  | 322097  | 34.482 | ng | 98   |
| 17) 2-Methylphenol             | 6.93  | 107 | 173723  | 19.144 | ng | # 16 |
| 20) 3+4-Methylphenols          | 6.93  | 107 | 169252  | 15.523 | ng | # 41 |
| 25) Isophorone                 | 7.35  | 82  | 1037618 | 44.621 | ng | # 66 |
| 27) 2,4-Dimethylphenol         | 7.90  | 122 | 433158  | 41.730 | ng | # 4  |
| 32) Benzoic acid               | 7.90  | 122 | 435306  | 55.022 | ng | 97   |
| 50) Dimethylphthalate          | 9.53  | 163 | 422232  | 18.011 | ng | 98   |
| 51) 2,6-Dinitrotoluene         | 9.57  | 165 | 18451   | 3.696  | ng | # 31 |
| 57) 2,4-Dinitrotoluene         | 9.81  | 165 | 42275   | 6.731  | ng | # 23 |
| 65) 4,6-Dinitro-2-methylphenol | 10.60 | 198 | 979     | 7.082  | ng | # 1  |
| 67) 4-Bromophenyl-phenylether  | 10.60 | 248 | 28967   | 4.272  | ng | # 1  |
| 74) Di-n-butylphthalate        | 11.86 | 149 | 171468  | 4.916  | ng | 98   |

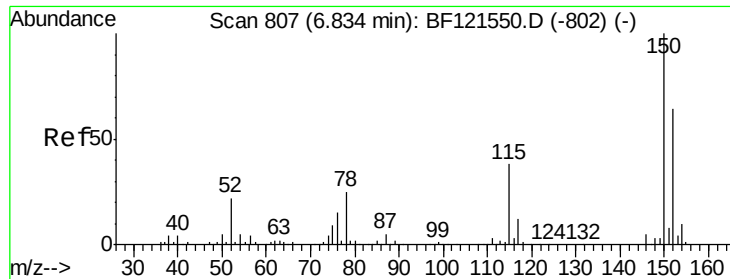
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\  
Data File : BF121759.D  
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Sample : L4053-09  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

Quant Time: Oct 01 04:34:12 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 29 11:12:14 2020  
Response via : Initial Calibration



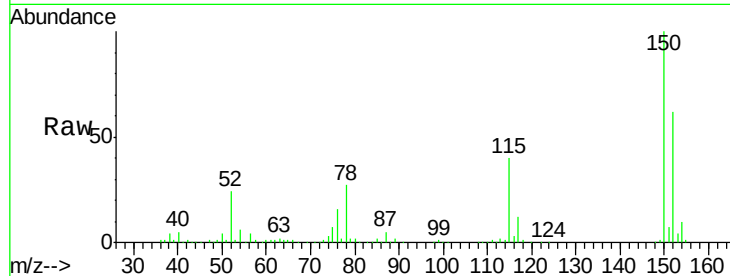


#1

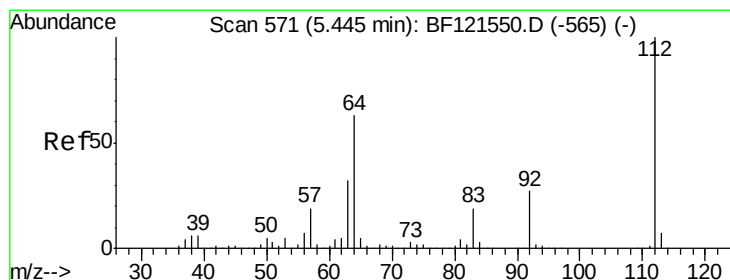
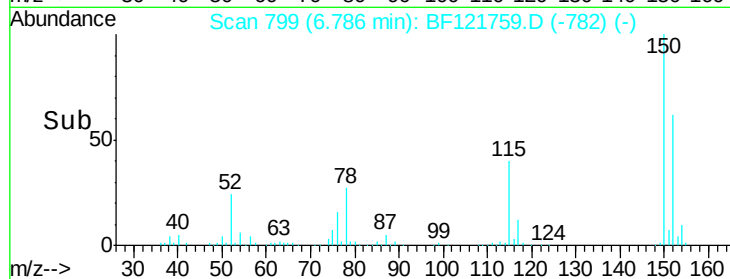
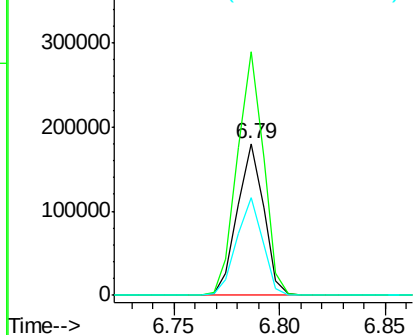
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

Tot Ion:152 Resp: 155676  
Ion Ratio Lower Upper  
152 100  
150 160.1 125.8 188.8  
115 64.6 49.6 74.4



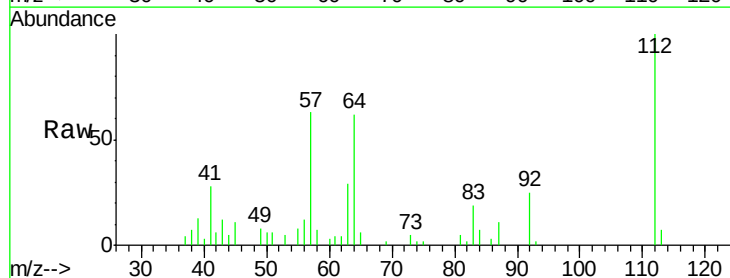
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



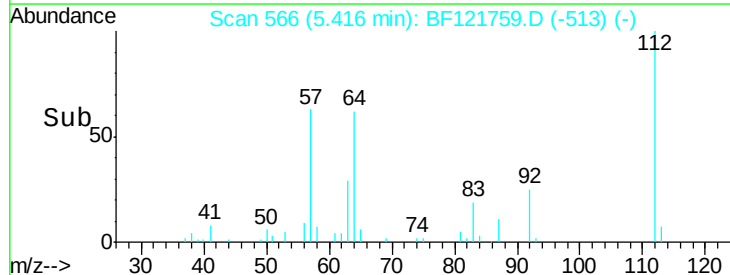
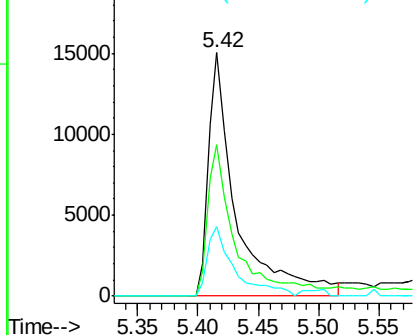
#5

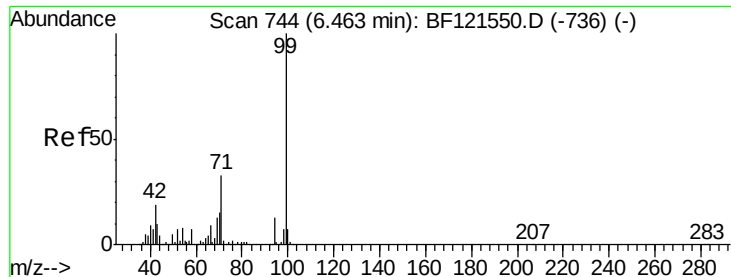
2-Fluorophenol  
Concen: 2.308 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Tgt Ion:112 Resp: 24173  
Ion Ratio Lower Upper  
112 100  
64 62.4 51.2 76.8  
63 28.7 25.9 38.9



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 80.021 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF121759.D

Acq: 1 Oct 2020 1:41

Instrument :

BNA\_F

ClientSampled :

VNJ-231

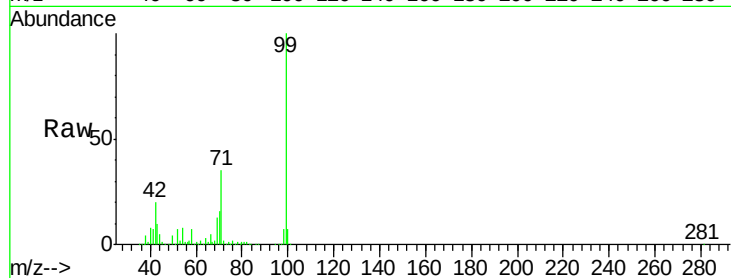
Tot Ion: 99 Resp: 1099726

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.2  | 16.5  | 24.7  |
| 71  | 34.9  | 27.8  | 41.6  |

99 100

42 20.2 16.5 24.7

71 34.9 27.8 41.6



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

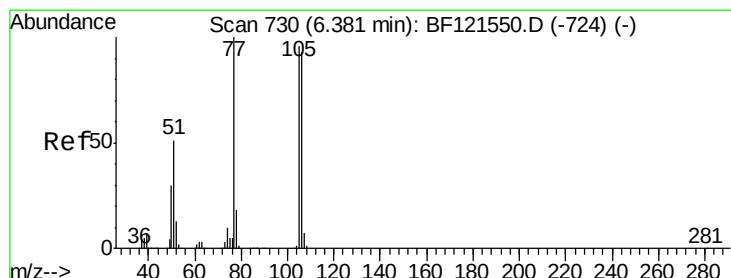
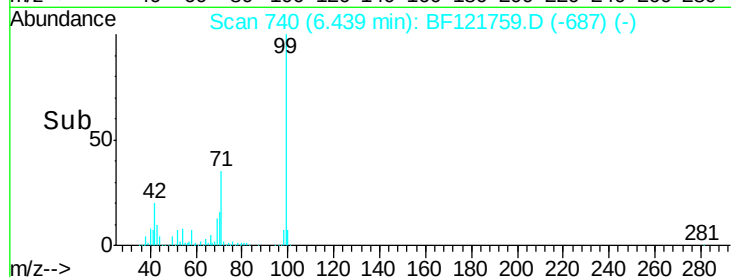
6.44

1000000

500000

0

Time-->



#9

Benzaldehyde

Concen: 2.033 ng

RT: 6.36 min Scan# 726

Delta R.T. 0.02 min

Lab File: BF121759.D

Acq: 1 Oct 2020 1:41

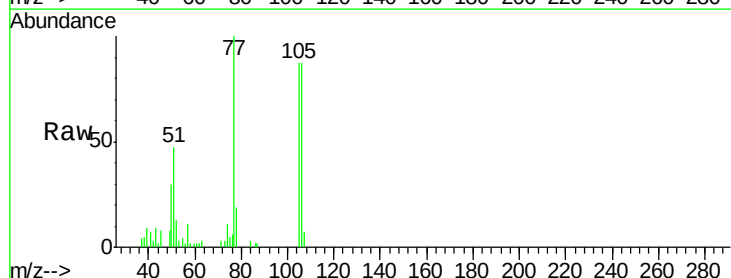
Tgt Ion: 77 Resp: 18267

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 105 | 86.8  | 80.8  | 120.8 |
| 106 | 86.8  | 75.4  | 115.4 |

77 100

105 86.8 80.8 120.8

106 86.8 75.4 115.4



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1

6.36

25000

20000

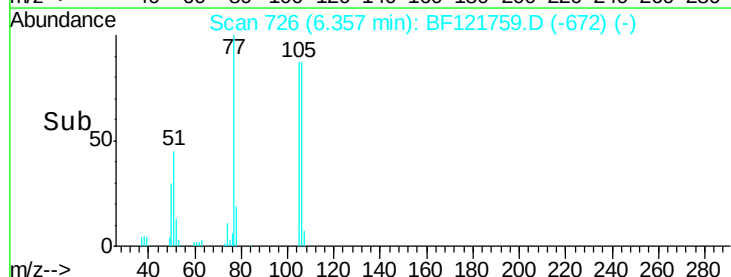
15000

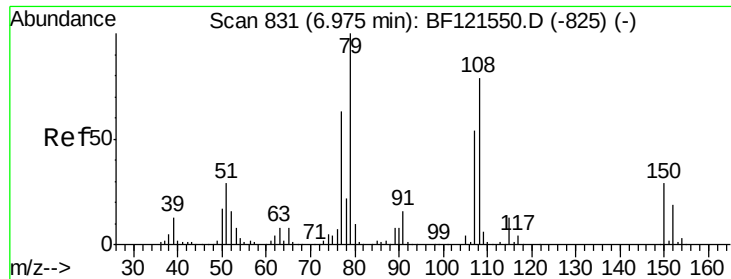
10000

5000

0

Time-->

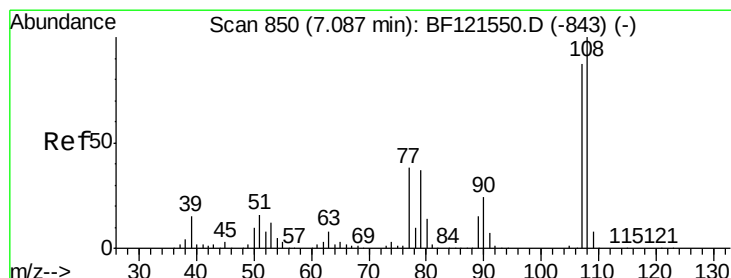
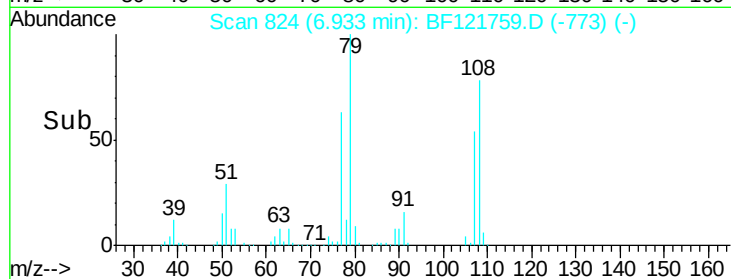
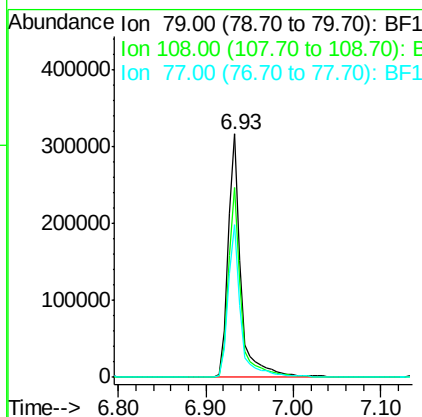
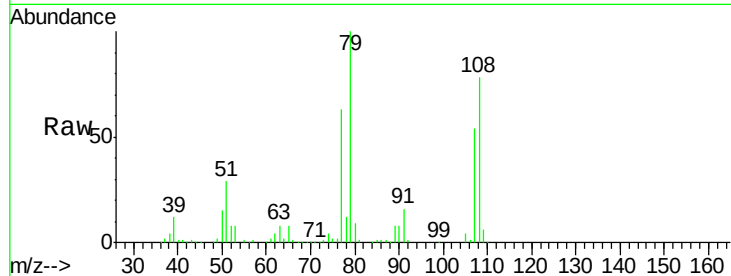




#15  
Benzyl Alcohol  
Concen: 34.482 ng  
RT: 6.93 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

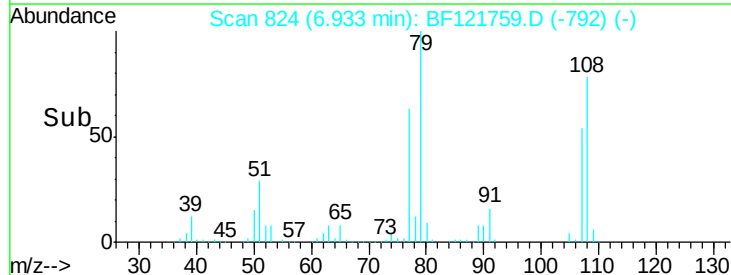
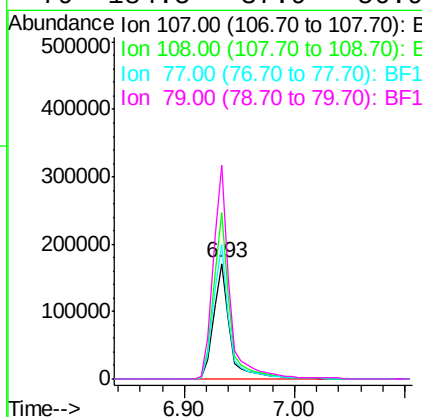
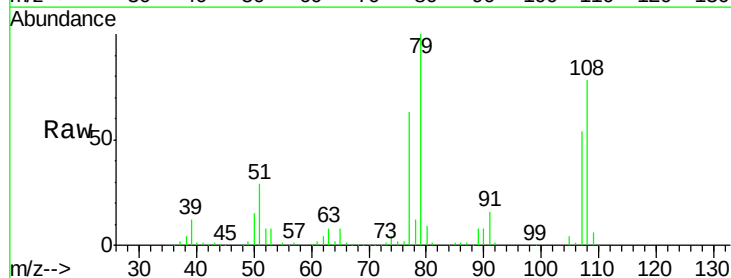
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

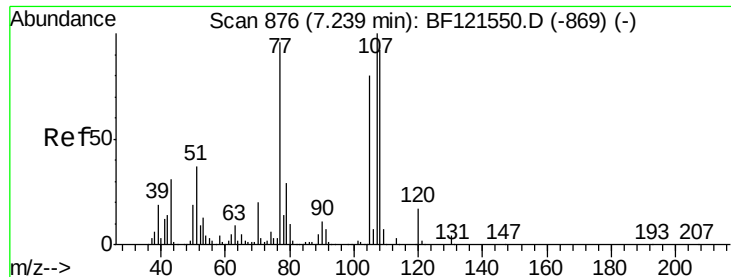
Tot Ion: 79 Resp: 322097  
Ion Ratio Lower Upper  
79 100  
108 78.1 60.2 90.2  
77 63.0 51.0 76.4



#17  
2-Methylphenol  
Concen: 19.144 ng  
RT: 6.93 min Scan# 824  
Delta R.T. -0.11 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Tgt Ion: 107 Resp: 173723  
Ion Ratio Lower Upper  
107 100  
108 144.1 91.7 137.5#  
77 116.2 38.4 57.6#  
79 184.5 37.9 56.9#





#20

3+4-Methylphenols

Concen: 15.523 ng

RT: 6.93 min Scan# 824

Delta R.T. -0.27 min

Lab File: BF121759.D

Acq: 1 Oct 2020 1:41

Instrument :

BNA\_F

ClientSampleId :

VNJ-231

Tot Ion:107 Resp: 169252

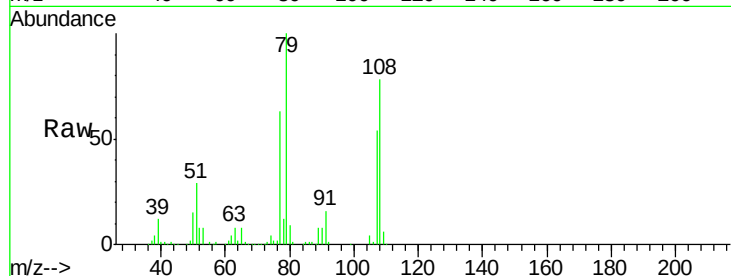
Ion Ratio Lower Upper

107 100

108 144.1 71.6 111.6#

77 116.2 101.6 141.6

79 184.5 12.5 52.5#

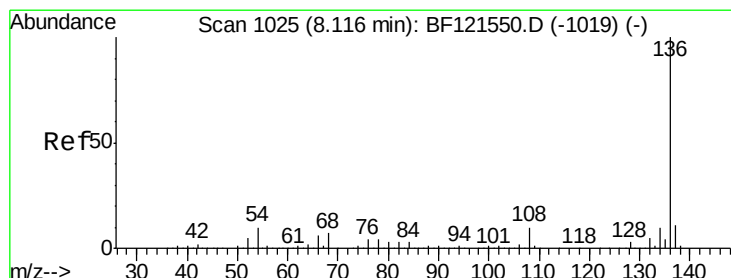
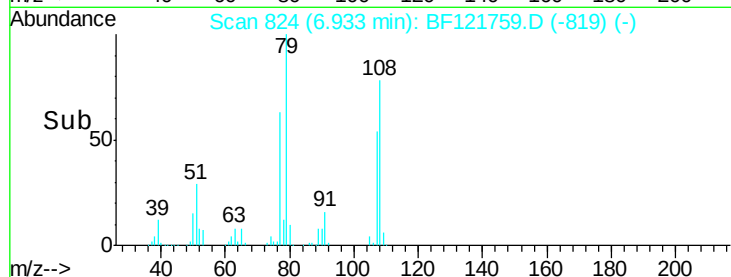
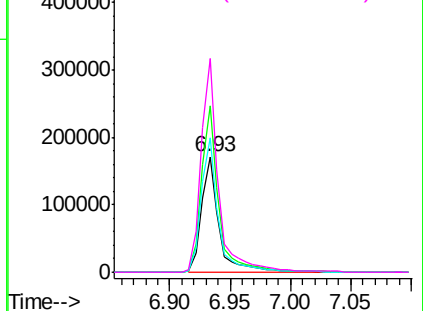


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF121759.D

Acq: 1 Oct 2020 1:41

Tgt Ion:136 Resp: 620236

Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 10.1 7.8 11.8

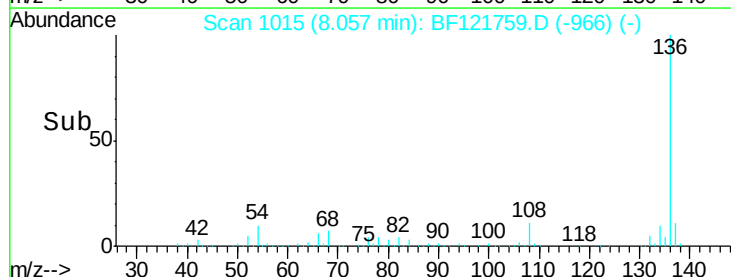
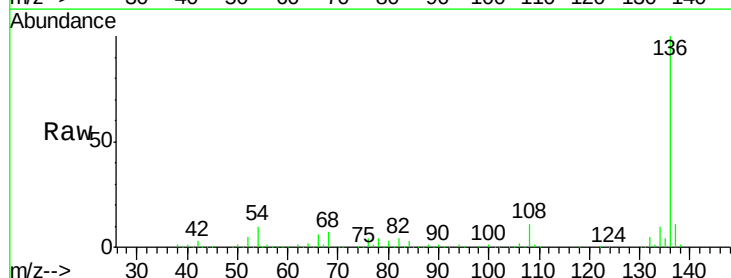
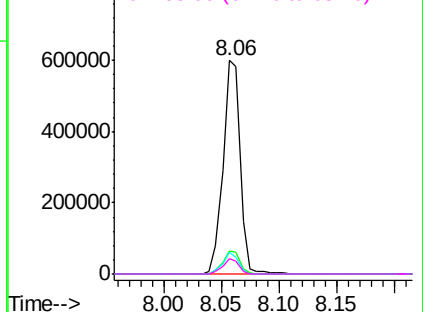
68 7.4 5.6 8.4

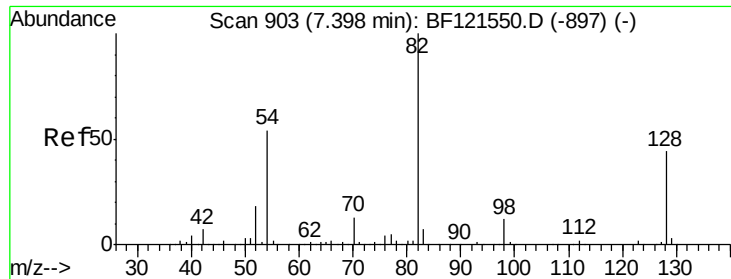
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

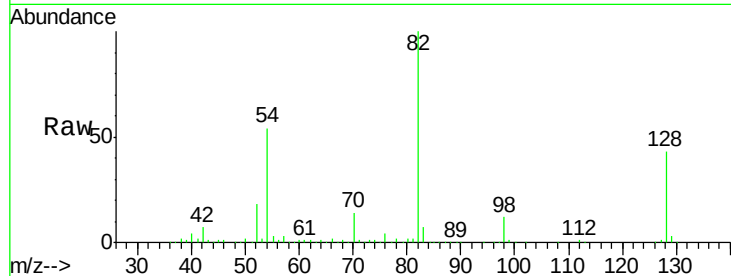




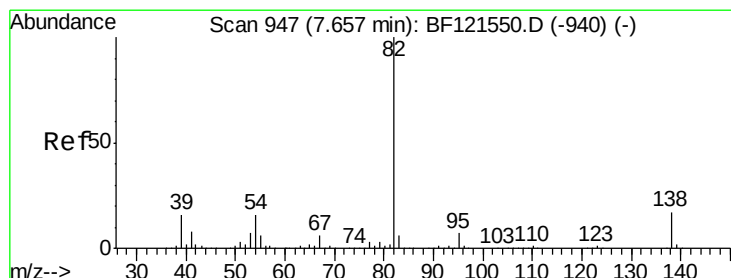
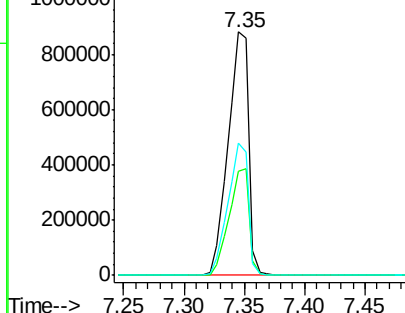
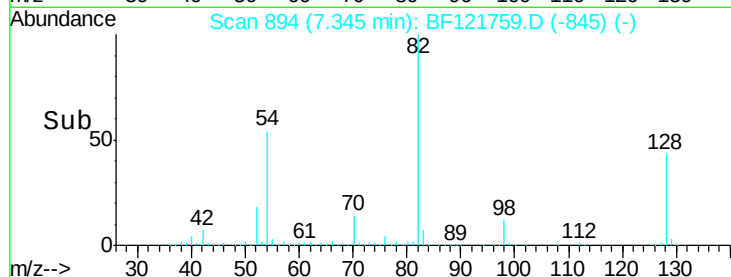
#23  
 Nitrobenzene-d5  
 Concen: 90.104 ng  
 RT: 7.35 min Scan# 894  
 Delta R.T. -0.01 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-231

Tot Ion: 82 Resp: 1040866  
 Ion Ratio Lower Upper  
 82 100  
 128 42.7 35.0 52.4  
 54 54.4 42.5 63.7

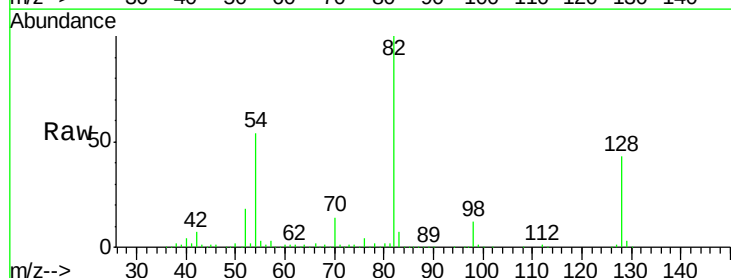


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

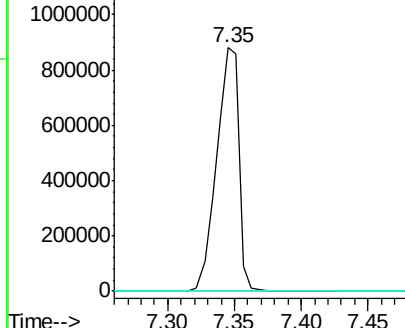
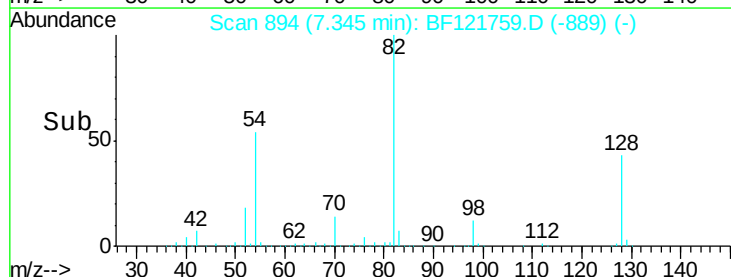


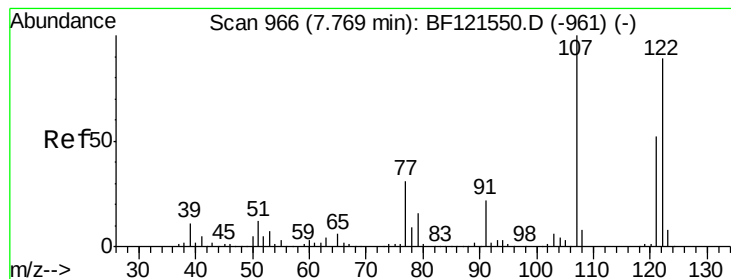
#25  
 Isophorone  
 Concen: 44.621 ng  
 RT: 7.35 min Scan# 894  
 Delta R.T. -0.27 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

Tgt Ion: 82 Resp: 1037618  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.6 8.4#  
 138 0.0 13.9 20.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1





#27

2,4-Dimethylphenol

Concen: 41.730 ng

RT: 7.90 min Scan# 988

Delta R.T. 0.17 min

Lab File: BF121759.D

Acq: 1 Oct 2020 1:41

Instrument :

BNA\_F

ClientSampled :

VNJ-231

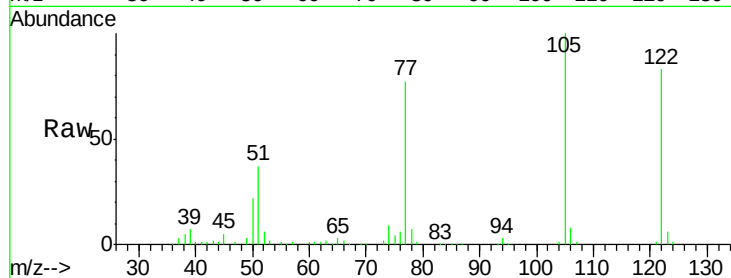
Tot Ion:122 Resp: 433158

Ion Ratio Lower Upper

122 100

107 0.7 92.3 138.5#

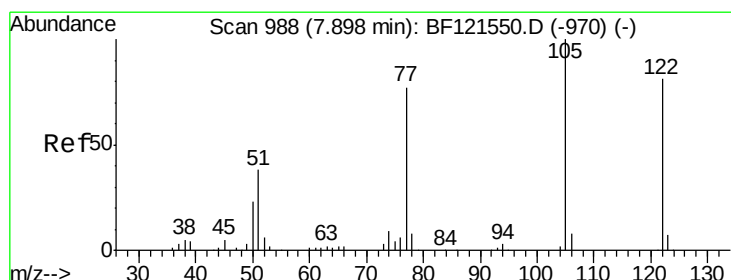
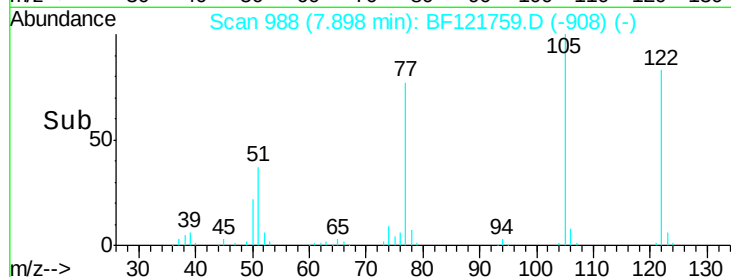
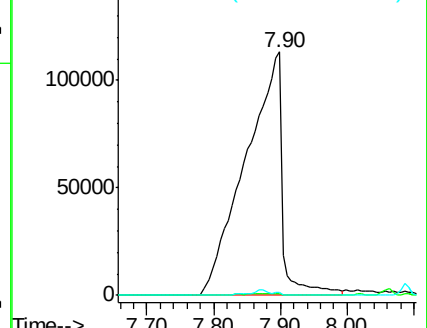
121 1.1 46.8 70.2#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#32

Benzoic acid

Concen: 55.022 ng

RT: 7.90 min Scan# 988

Delta R.T. 0.02 min

Lab File: BF121759.D

Acq: 1 Oct 2020 1:41

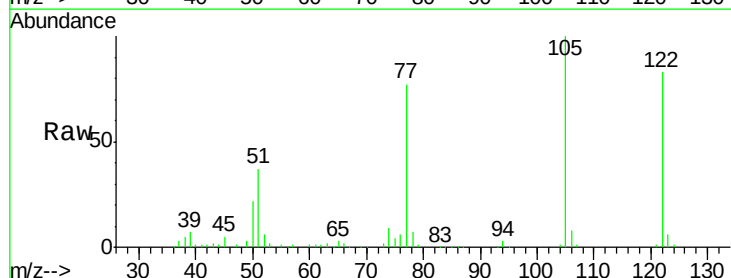
Tgt Ion:122 Resp: 435306

Ion Ratio Lower Upper

122 100

105 120.2 103.8 143.8

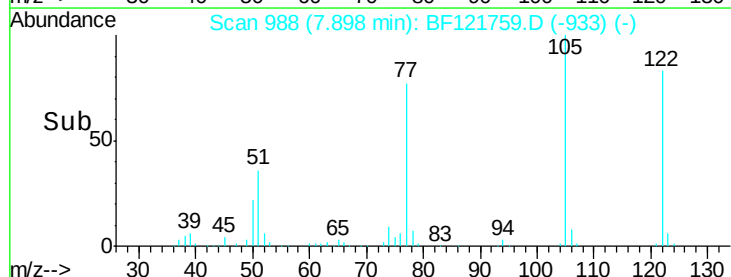
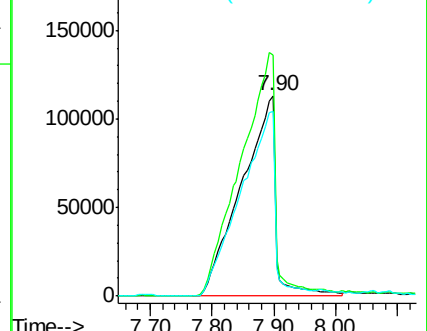
77 92.1 75.8 115.8



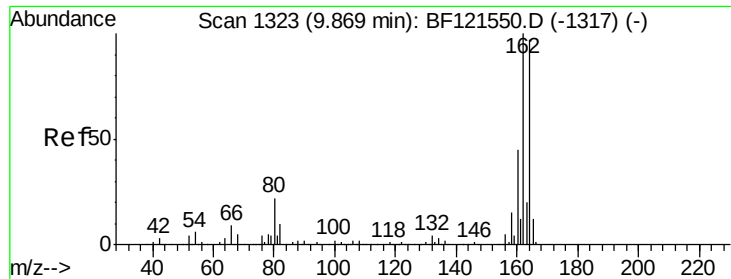
Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



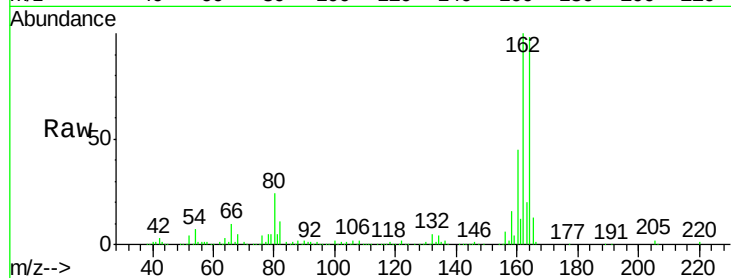




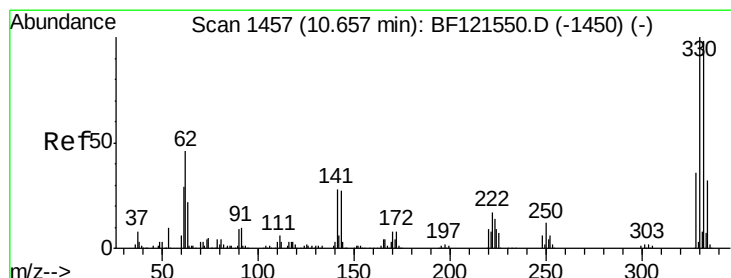
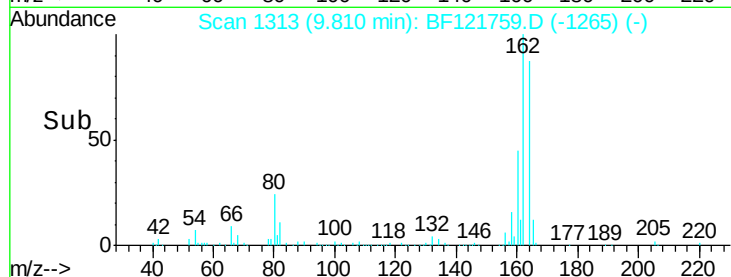
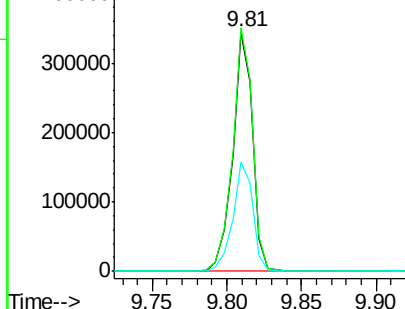
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.02 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-231

Tot Ion:164 Resp: 323454  
 Ion Ratio Lower Upper  
 164 100  
 162 102.0 80.6 121.0  
 160 45.8 36.9 55.3

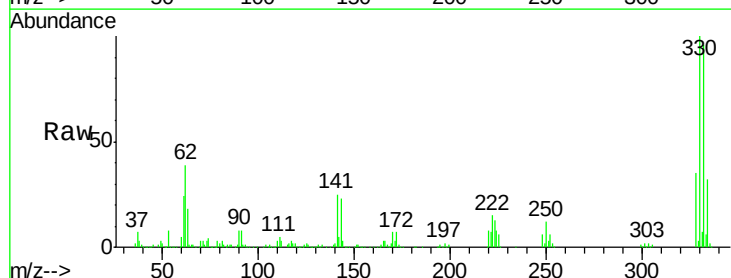


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

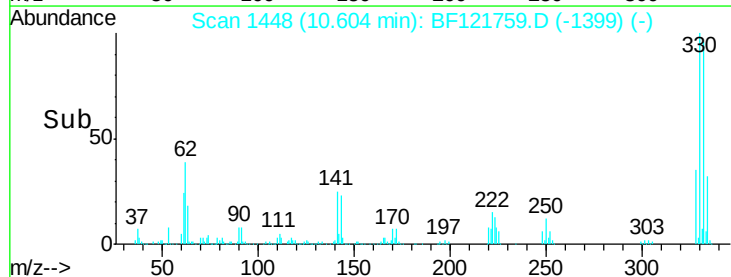
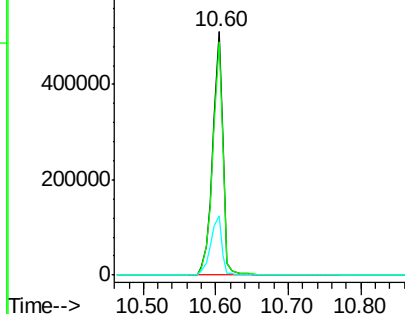


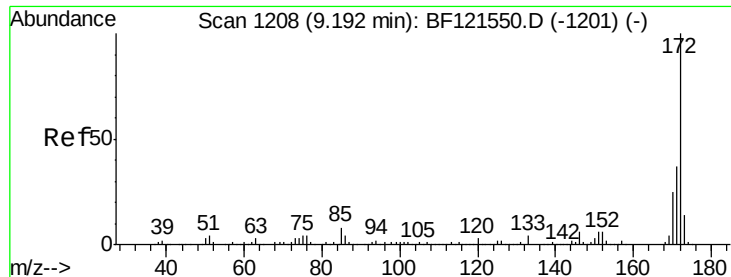
#42  
 2,4,6-Tribromophenol  
 Concen: 124.963 ng  
 RT: 10.60 min Scan# 1448  
 Delta R.T. -0.01 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

Tgt Ion:330 Resp: 502364  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 77.6 116.4  
 141 26.8 22.9 34.3



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

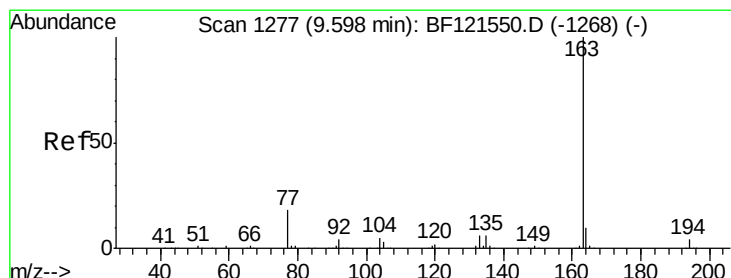
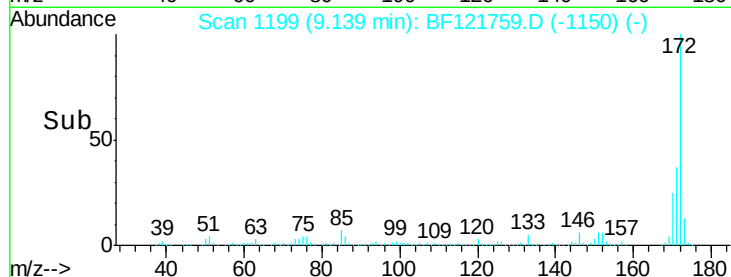
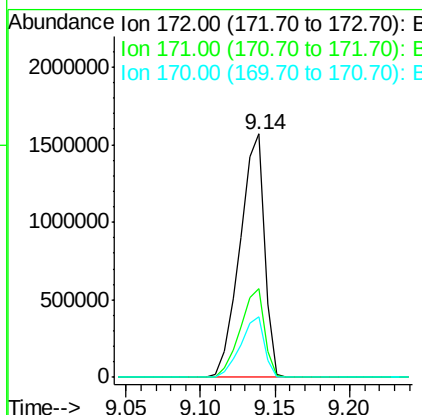
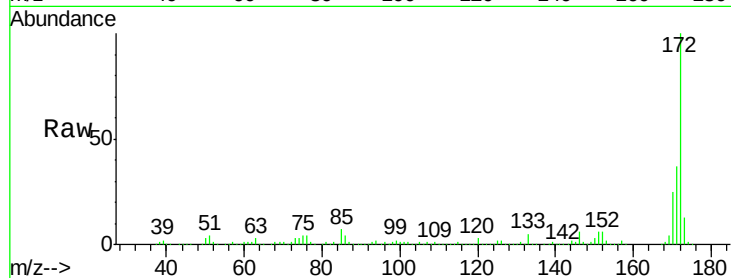




#45  
2-Fluorobiphenyl  
Concen: 84.199 ng  
RT: 9.14 min Scan# 1199  
Delta R.T. -0.01 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

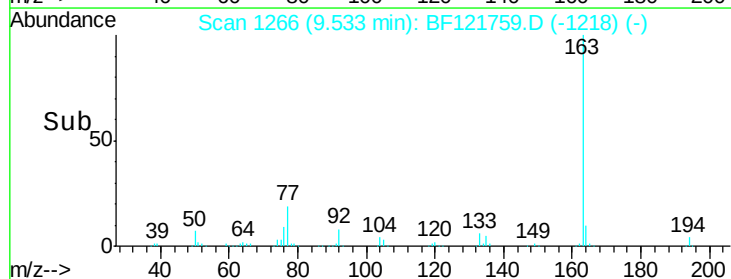
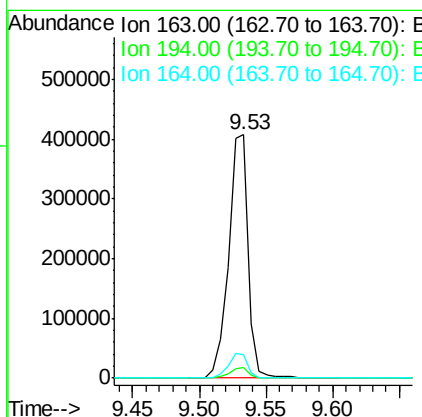
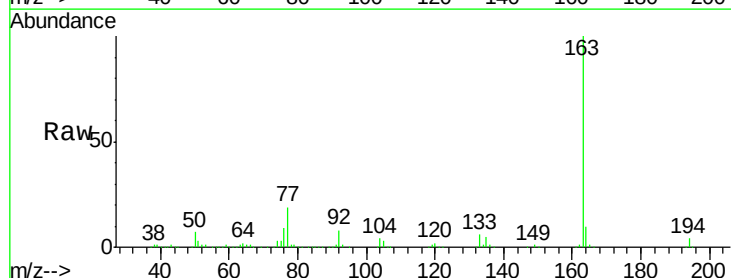
Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

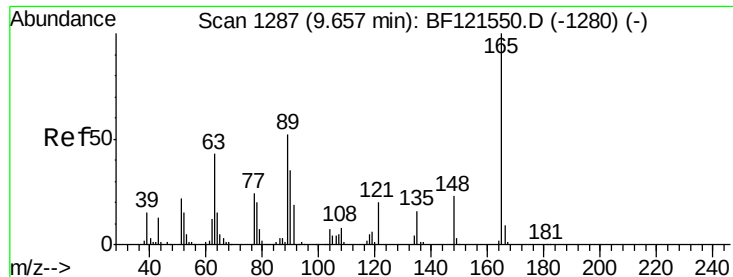
Tot Ion:172 Resp: 1798210  
Ion Ratio Lower Upper  
172 100  
171 36.6 29.2 43.8  
170 24.8 19.7 29.5



#50  
Dimethylphthalate  
Concen: 18.011 ng  
RT: 9.53 min Scan# 1266  
Delta R.T. -0.02 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Tgt Ion:163 Resp: 422232  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.1 4.7  
164 9.5 8.5 12.7

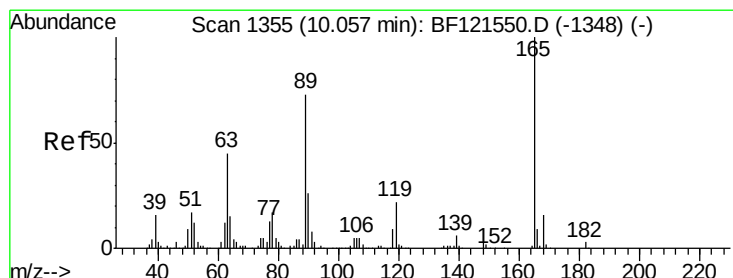
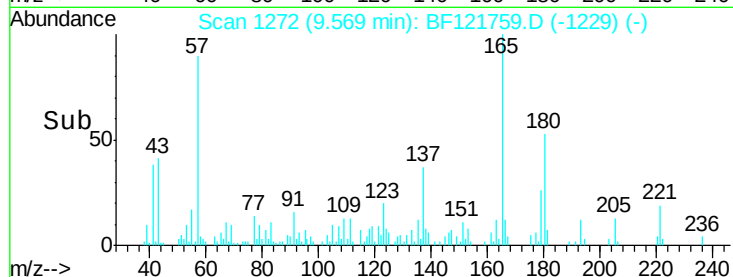
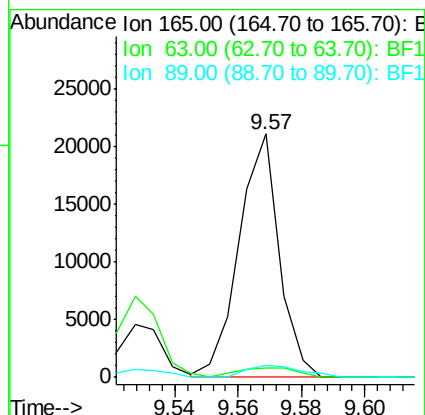
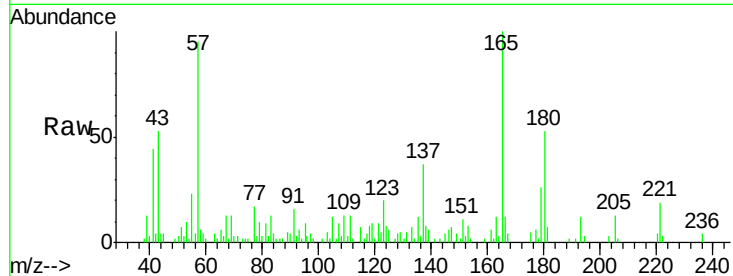




#51  
 2,6-Dinitrotoluene  
 Concen: 3.696 ng  
 RT: 9.57 min Scan# 1272  
 Delta R.T. -0.05 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

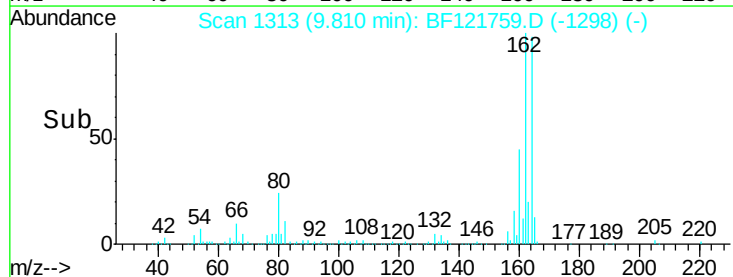
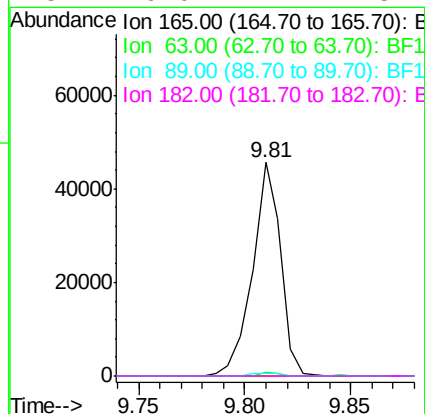
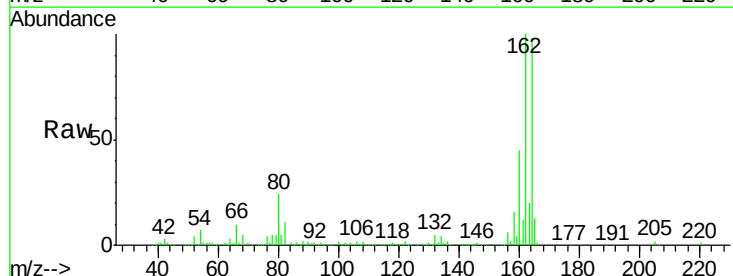
Instrument :  
 BNA\_F  
 ClientSampled :  
 VNJ-231

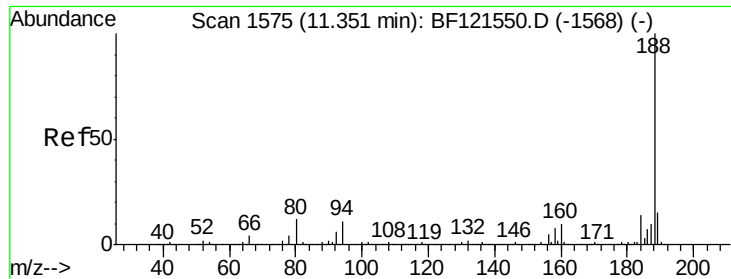
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.9   | 43.8  | 65.6# |
| 89      | 4.9   | 43.0  | 64.4# |



#57  
 2,4-Dinitrotoluene  
 Concen: 6.731 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.21 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 39.0  | 58.6# |
| 89      | 1.4   | 57.5  | 86.3# |
| 182     | 0.0   | 2.2   | 3.4#  |

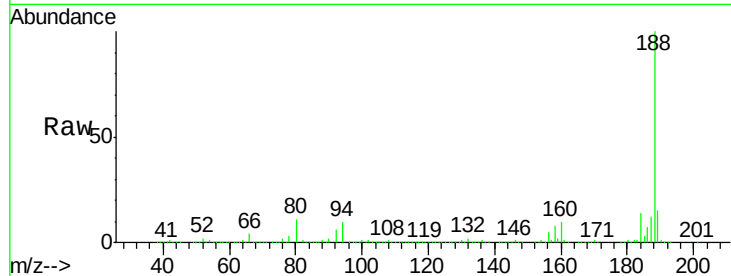




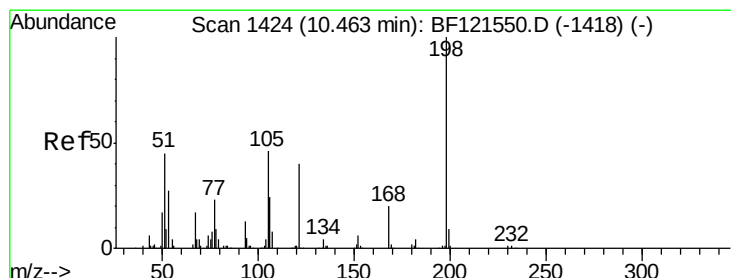
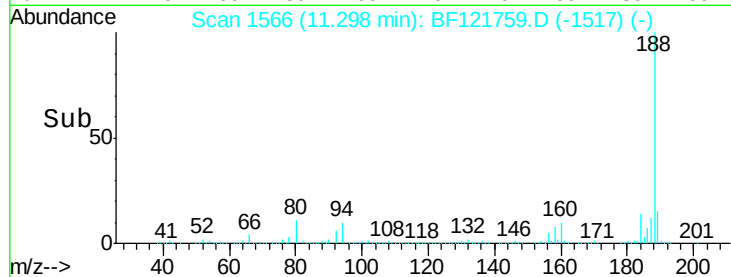
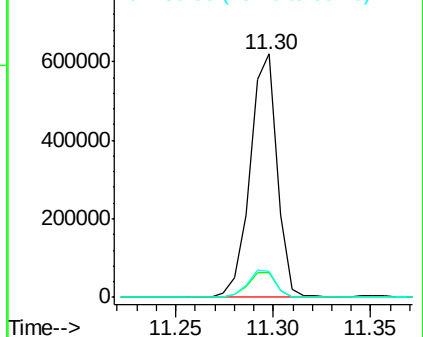
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.30 min Scan# 1566  
Delta R.T. -0.01 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

Tot Ion:188 Resp: 595596  
Ion Ratio Lower Upper  
188 100  
94 10.0 8.2 12.2  
80 10.7 8.9 13.3

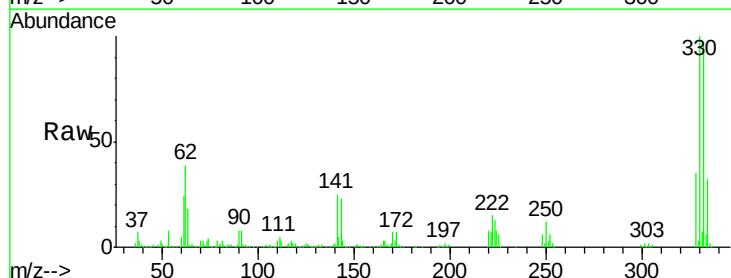


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

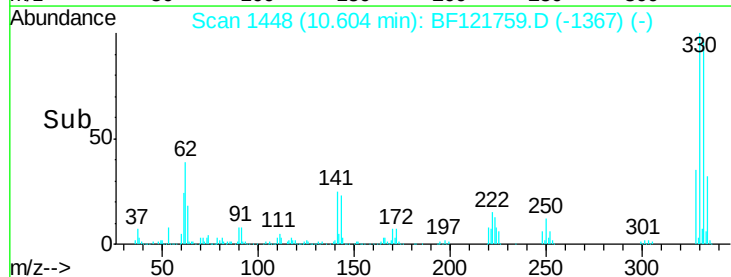
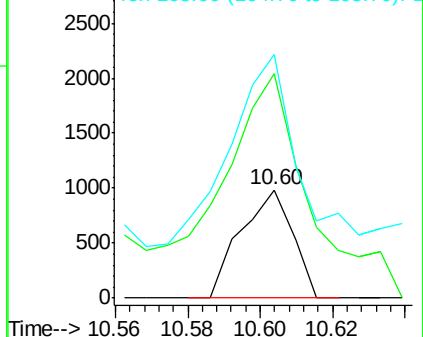


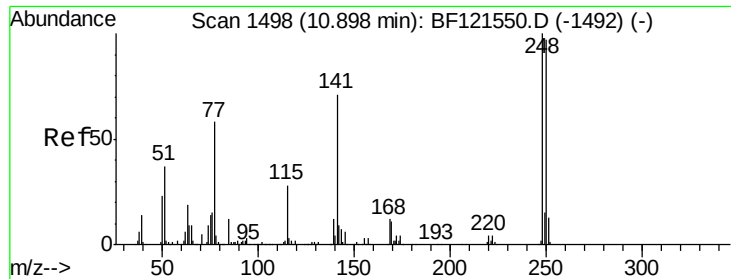
#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.082 ng  
RT: 10.60 min Scan# 1448  
Delta R.T. 0.18 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Tgt Ion:198 Resp: 979  
Ion Ratio Lower Upper  
198 100  
51 206.7 34.7 74.7#  
105 224.3 27.8 67.8#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

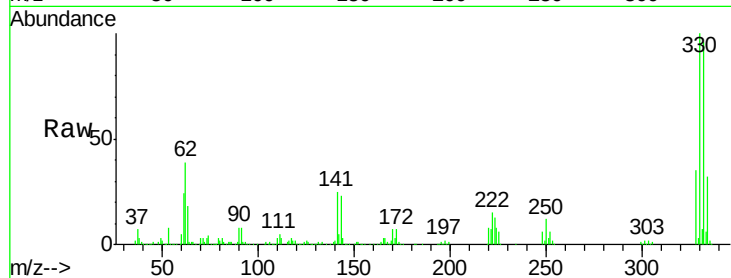




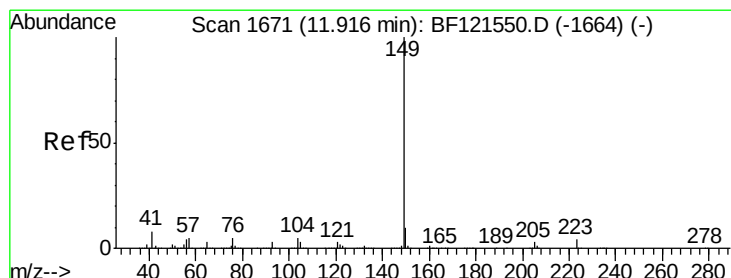
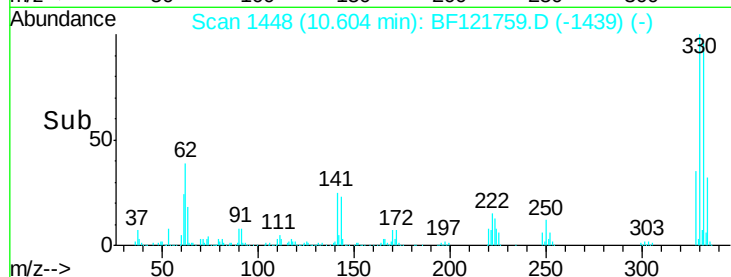
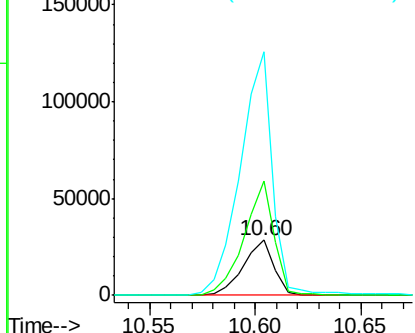
#67  
4-Bromophenyl-phenylether  
Concen: 4.272 ng  
RT: 10.60 min Scan# 1448  
Delta R.T. -0.25 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

Tot Ion:248 Resp: 28967  
Ion Ratio Lower Upper  
248 100  
250 208.6 78.6 118.0#  
141 442.9 60.0 90.0#

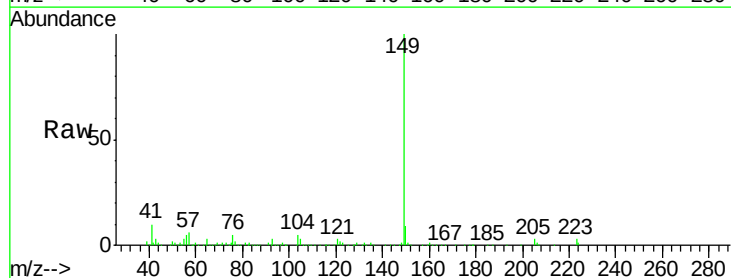


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

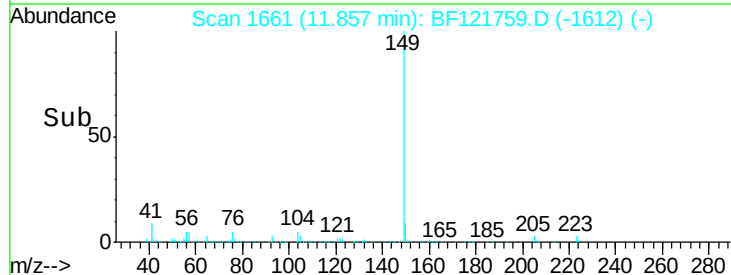
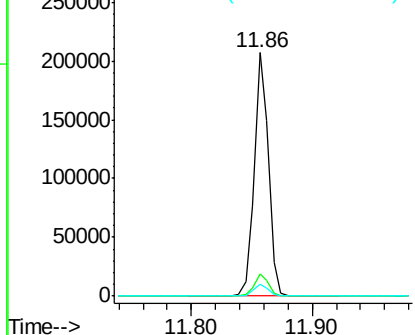


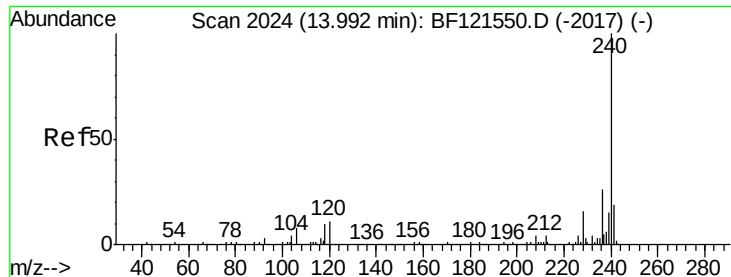
#74  
Di-n-butylphthalate  
Concen: 4.916 ng  
RT: 11.86 min Scan# 1661  
Delta R.T. -0.01 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Tgt Ion:149 Resp: 171468  
Ion Ratio Lower Upper  
149 100  
150 9.0 7.6 11.4  
104 4.7 4.2 6.4



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E

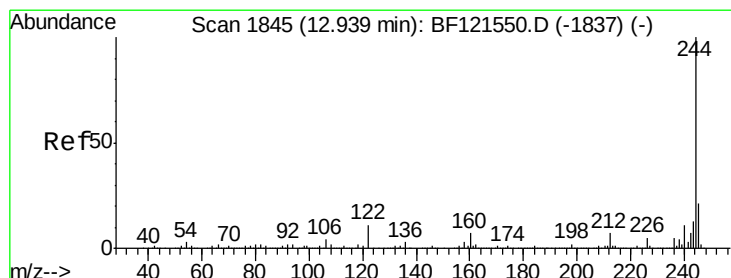
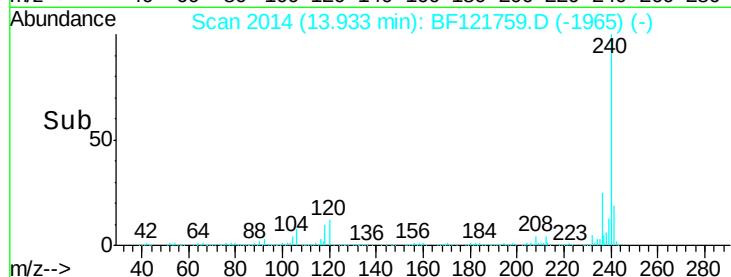
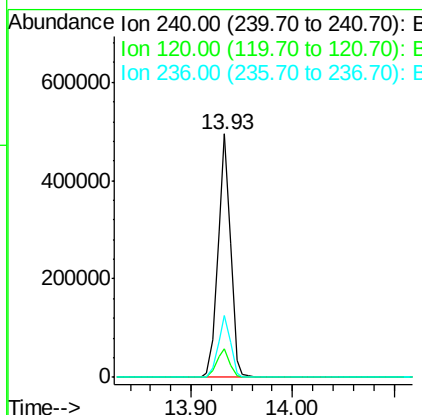
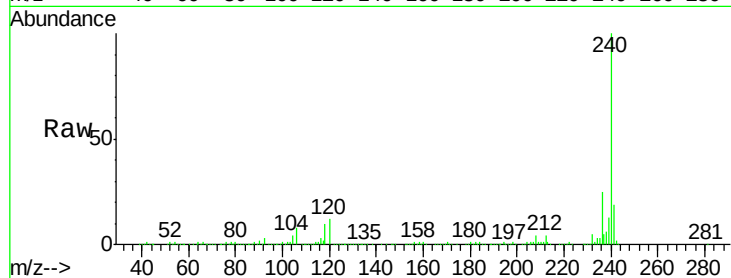




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.93 min Scan# 2014  
 Delta R.T. -0.01 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

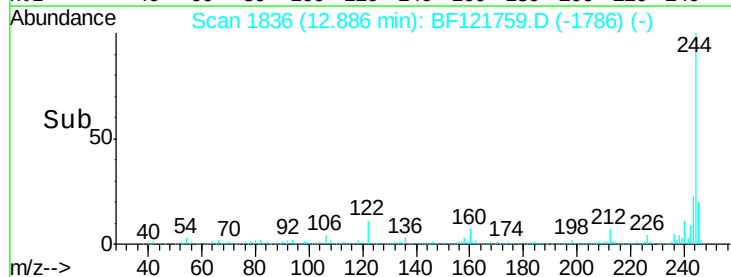
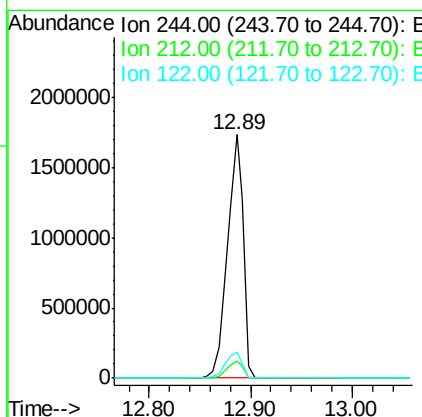
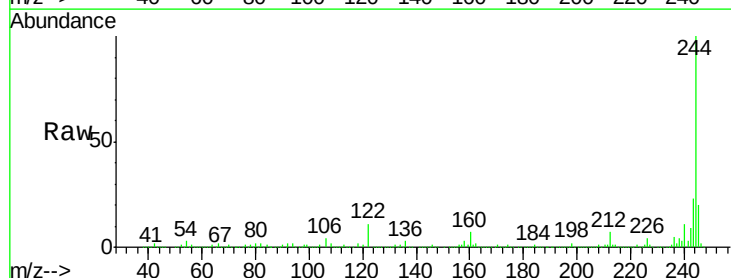
Instrument :  
 BNA\_F  
 ClientSampleId :  
 VNJ-231

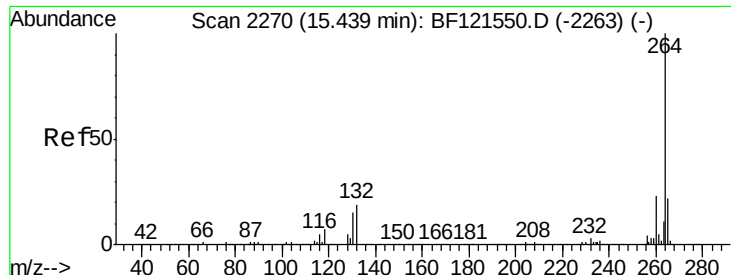
Tot Ion:240 Resp: 424109  
 Ion Ratio Lower Upper  
 240 100  
 120 11.8 10.2 15.4  
 236 25.4 20.4 30.6



#79  
 Terphenyl-d14  
 Concen: 89.576 ng  
 RT: 12.89 min Scan# 1836  
 Delta R.T. -0.01 min  
 Lab File: BF121759.D  
 Acq: 1 Oct 2020 1:41

Tgt Ion:244 Resp: 1875211  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.7 8.5  
 122 10.6 9.0 13.4

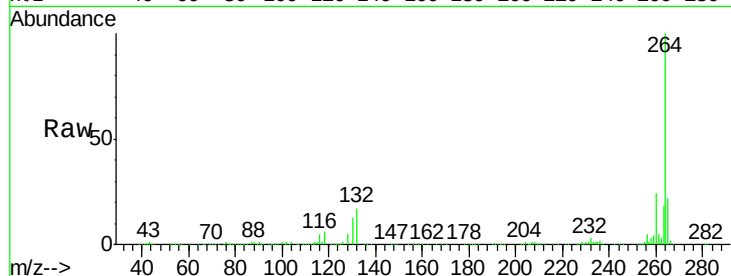




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.37 min Scan# 2259  
Delta R.T. -0.01 min  
Lab File: BF121759.D  
Acq: 1 Oct 2020 1:41

Instrument :  
BNA\_F  
ClientSampleId :  
VNJ-231

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.0  | 28.6  |
| 265     | 22.2  | 17.3  | 25.9  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

