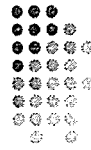
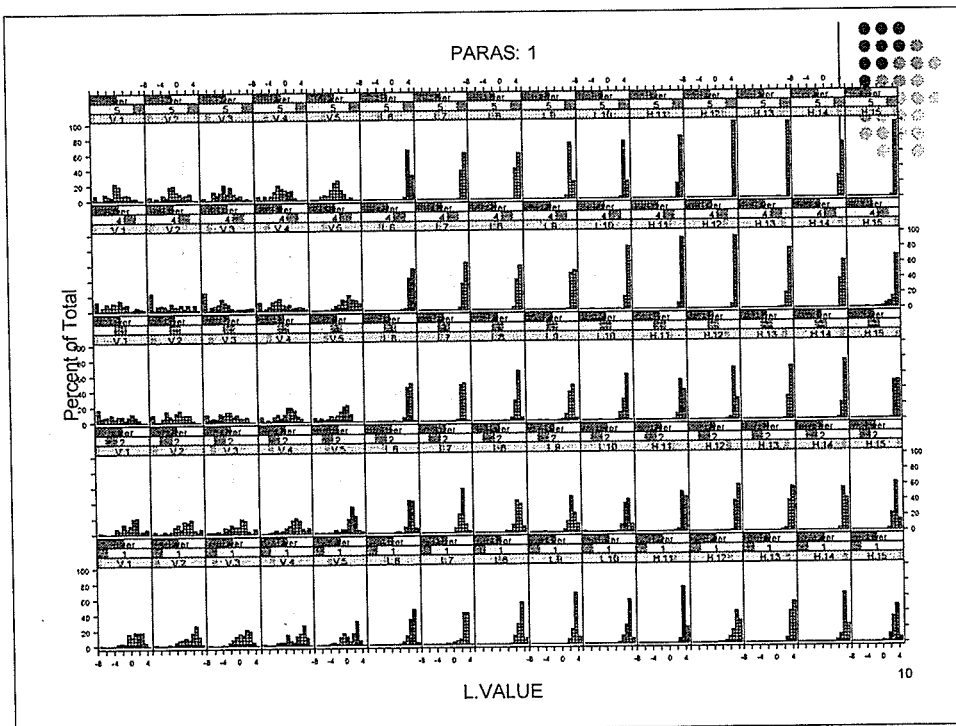


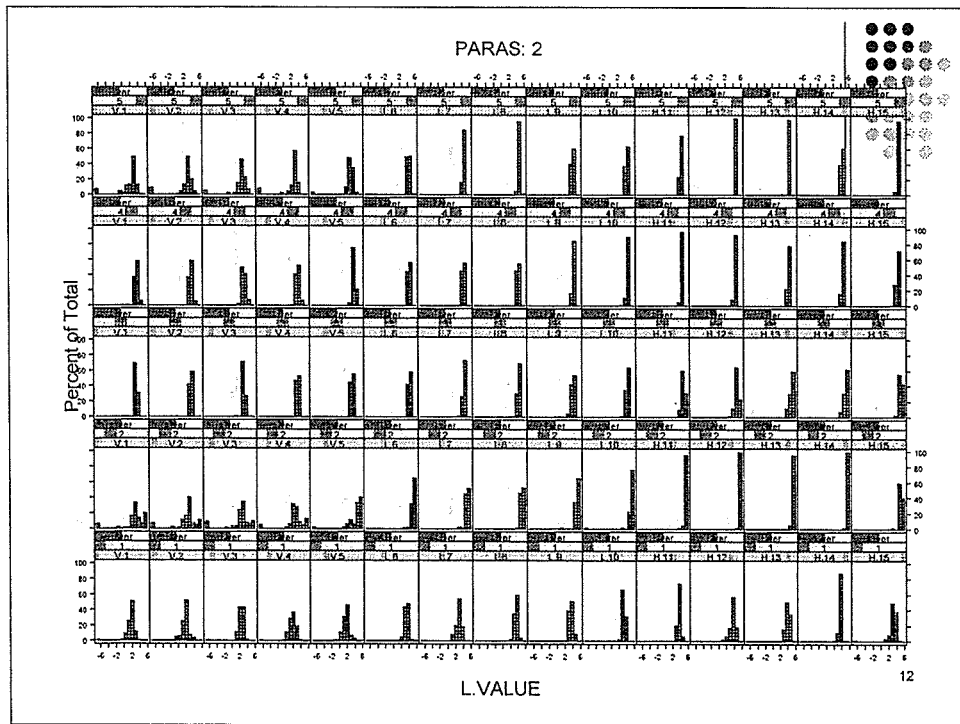
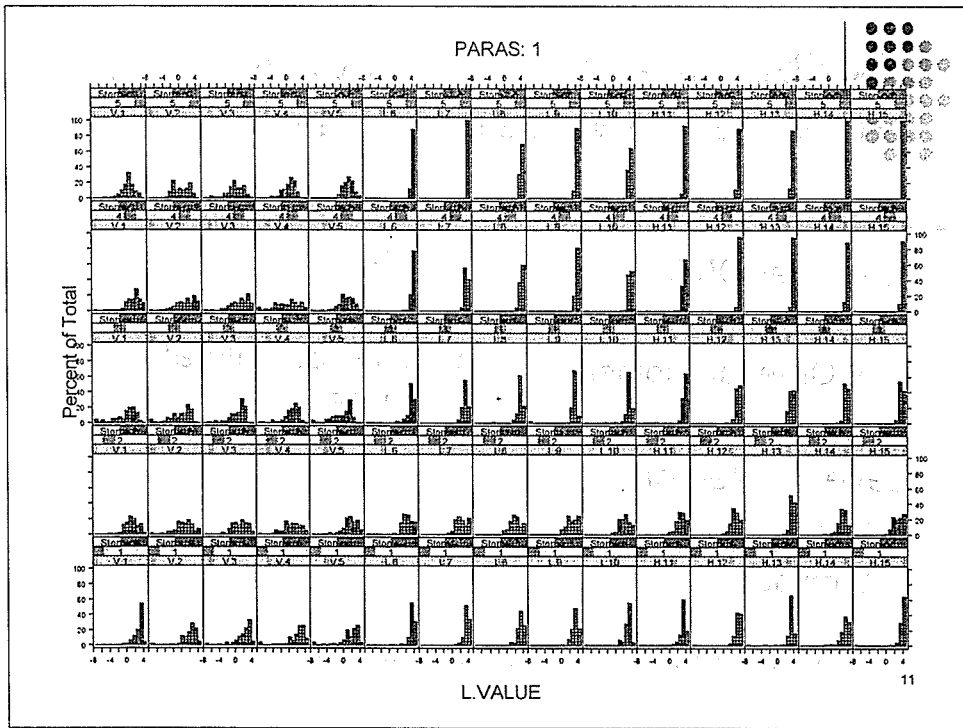
Distributions of log transformed values by individual animals

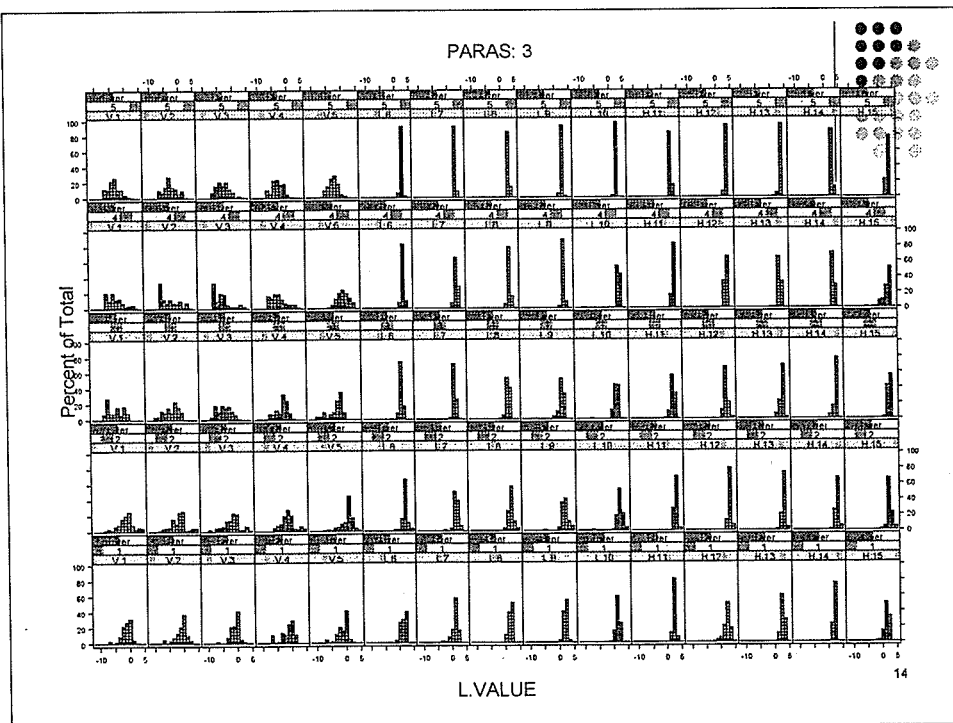
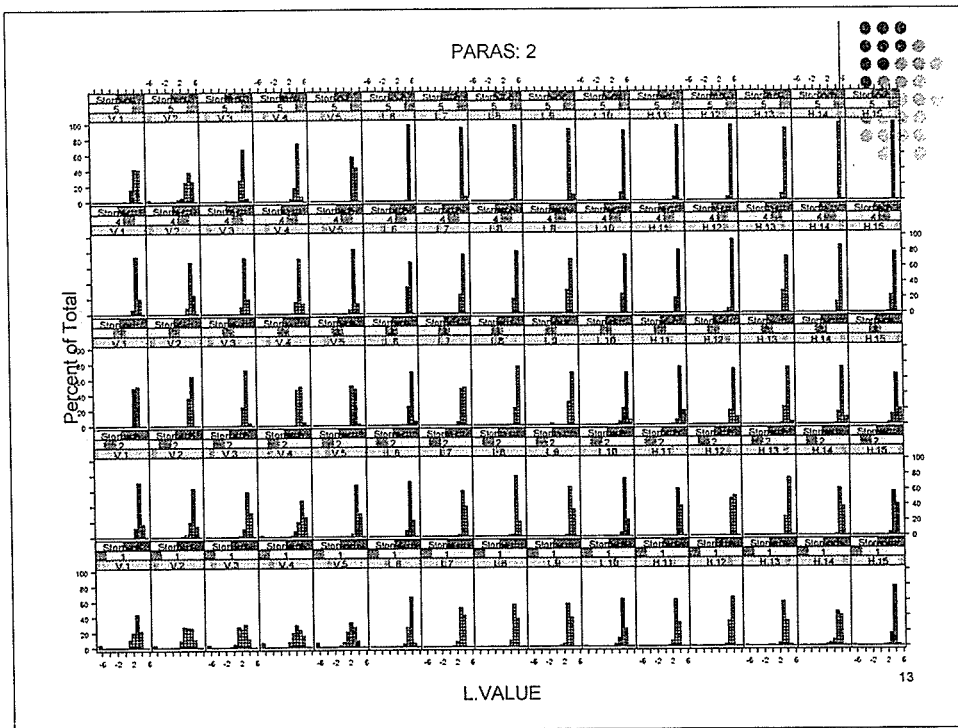


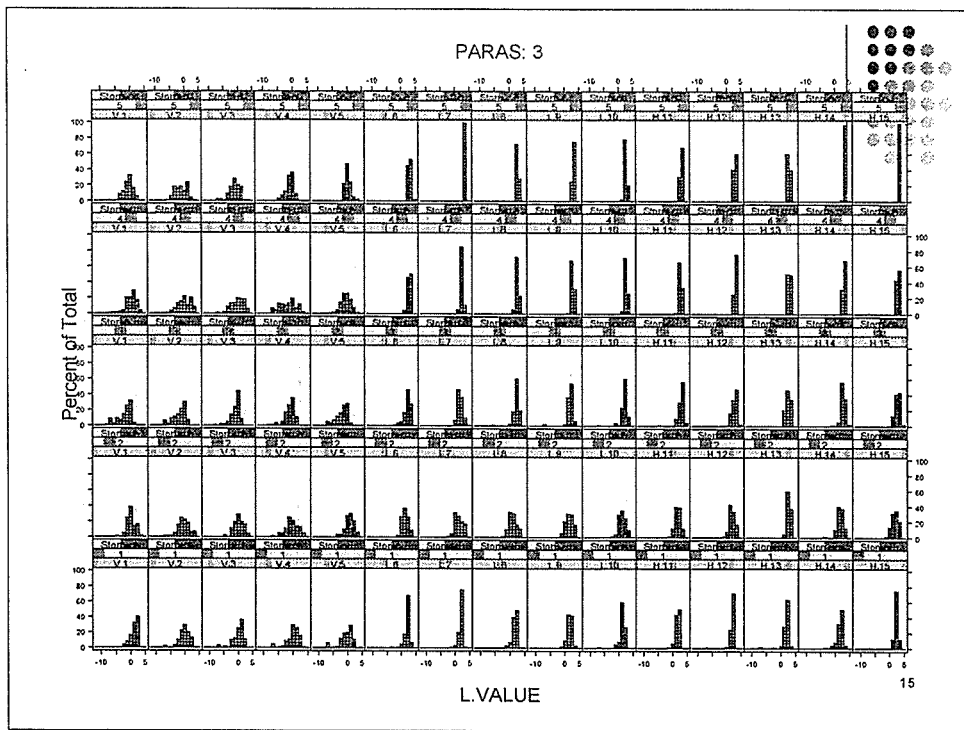
- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
 - Level 1: Region
 - Liver
 - Stomach
 - Level 2: Facility code
 - 1-5
 - Level 3: Animal
 - 1-15
- In case of zero value, we used $\log(0.001)$.

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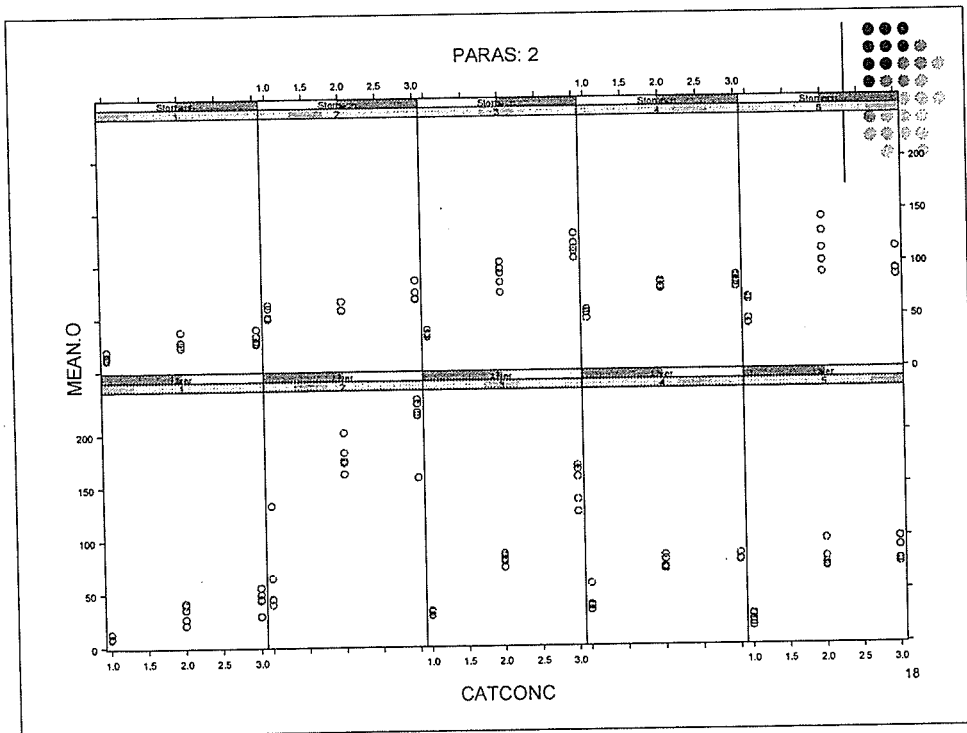
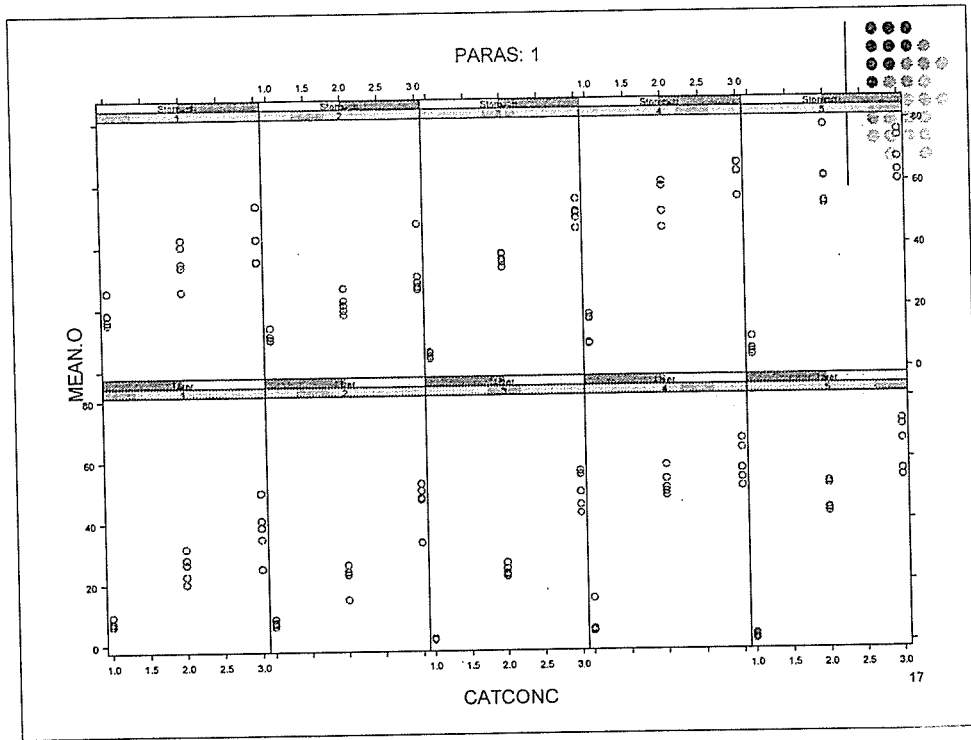


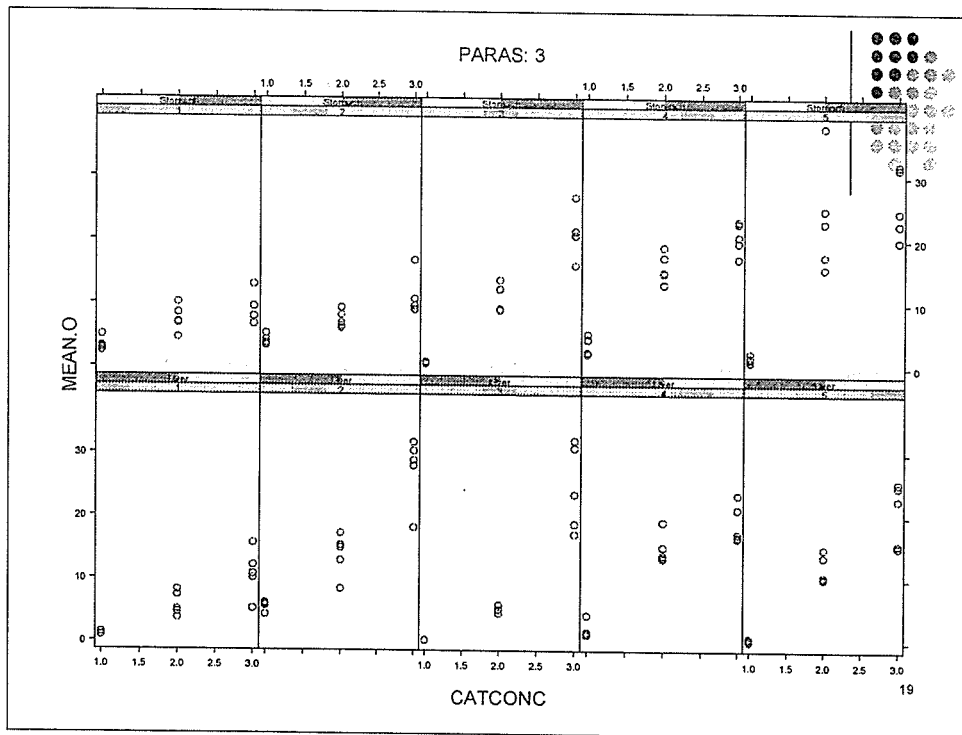


Dose response relationships of mean of observed values

- PARAS
 - ◆ 1: % tail DNA
 - ◆ 2: tail length
 - ◆ 3: Olive tail moment
- Level 2: Facility code
 - ◆ 1-5
- Level 1: Region
 - ◆ Liver
 - ◆ Stomach

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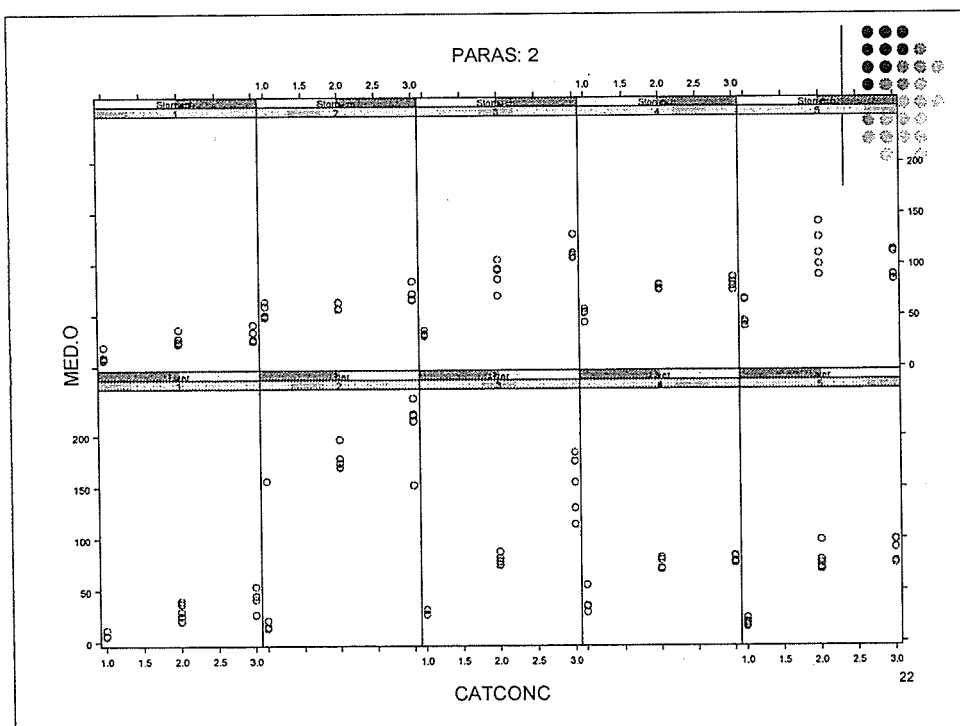
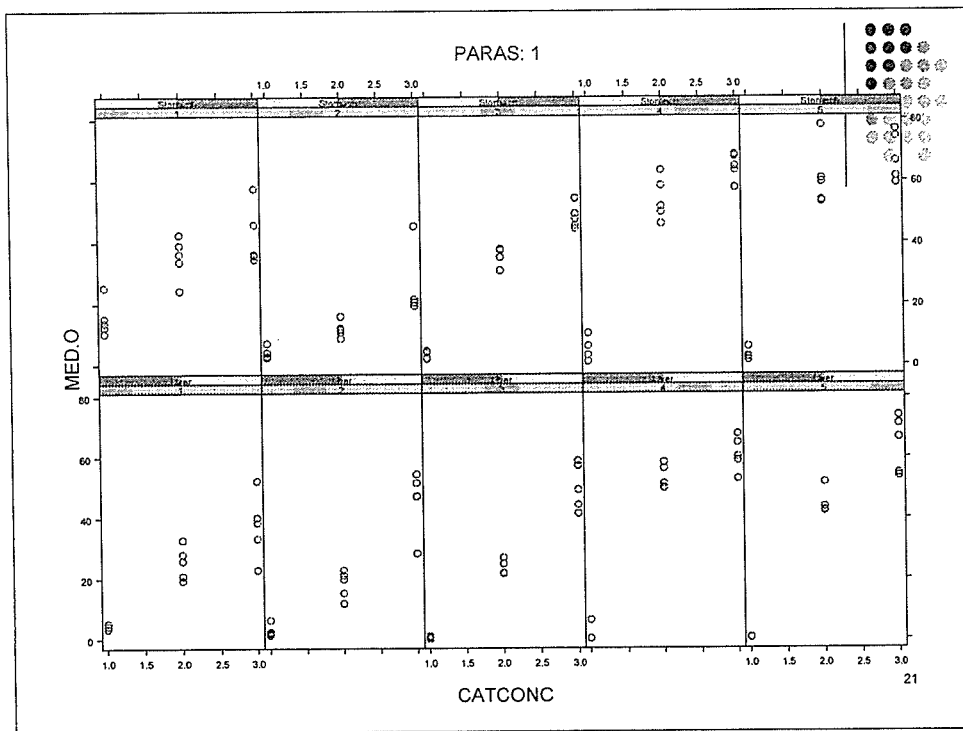


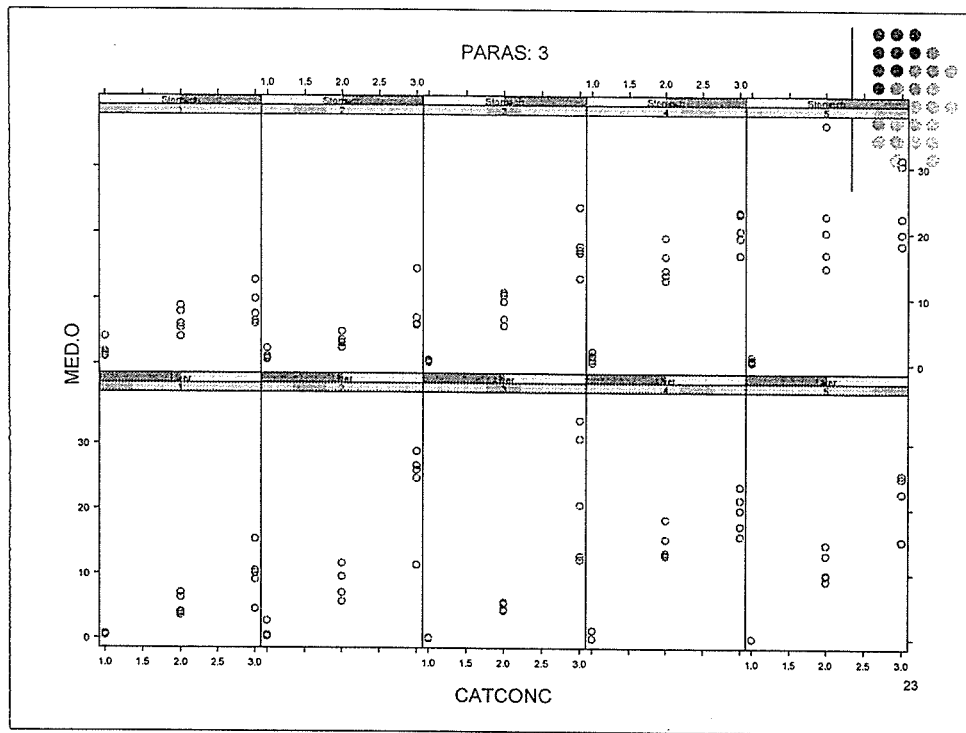


Dose response relationships of median of observed values

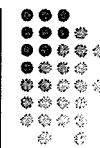
- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
- Level 2: Facility code
 - 1-5
- Level 1: Region
 - Liver
 - Stomach

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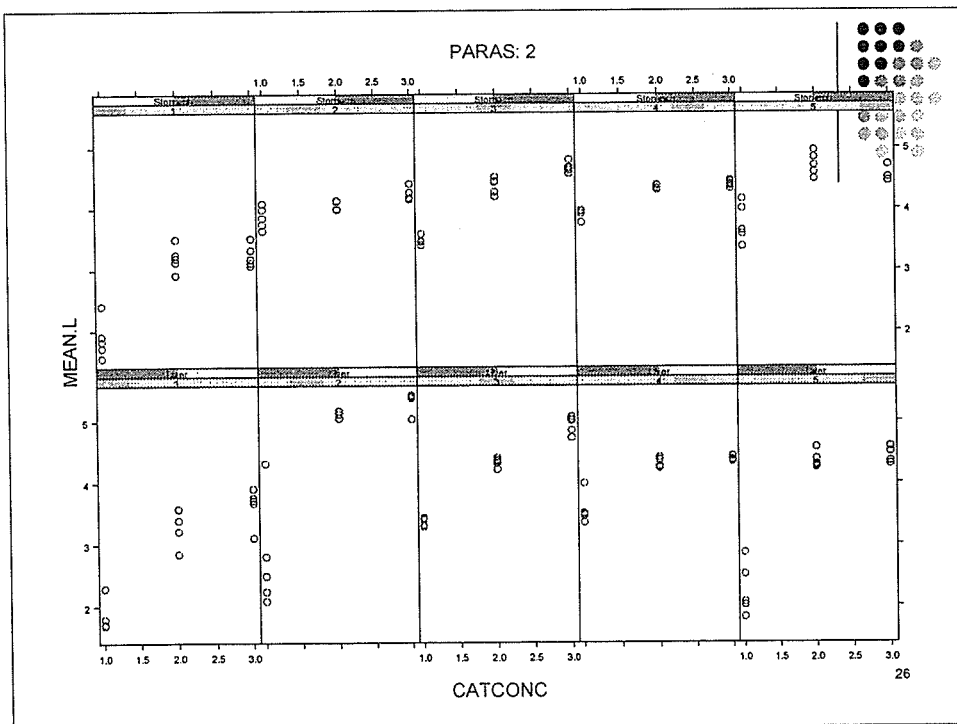
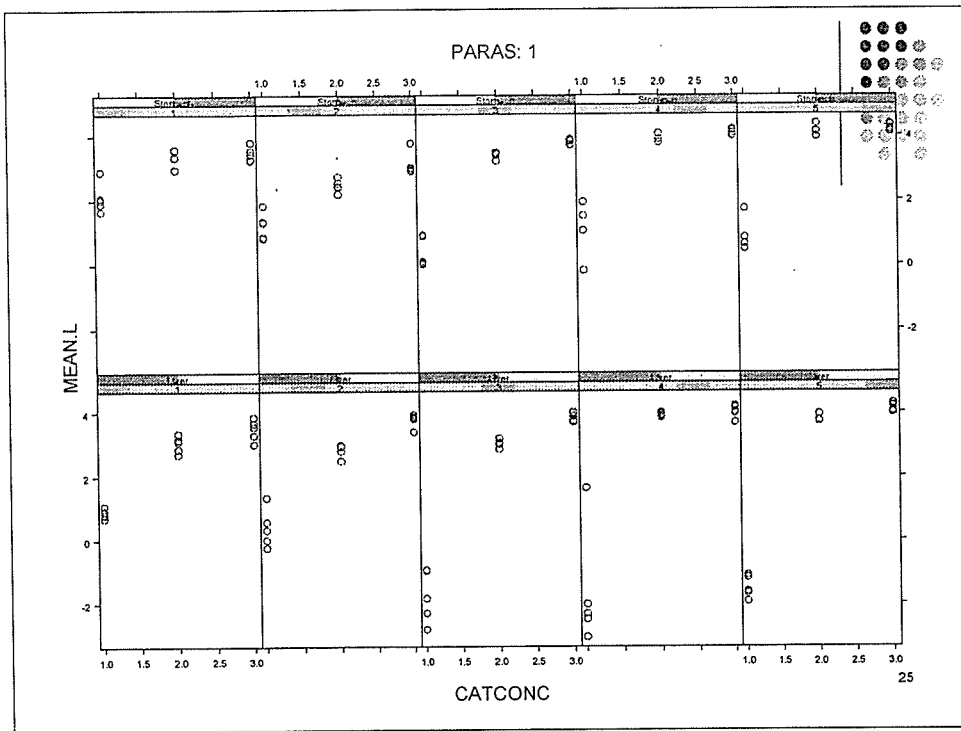


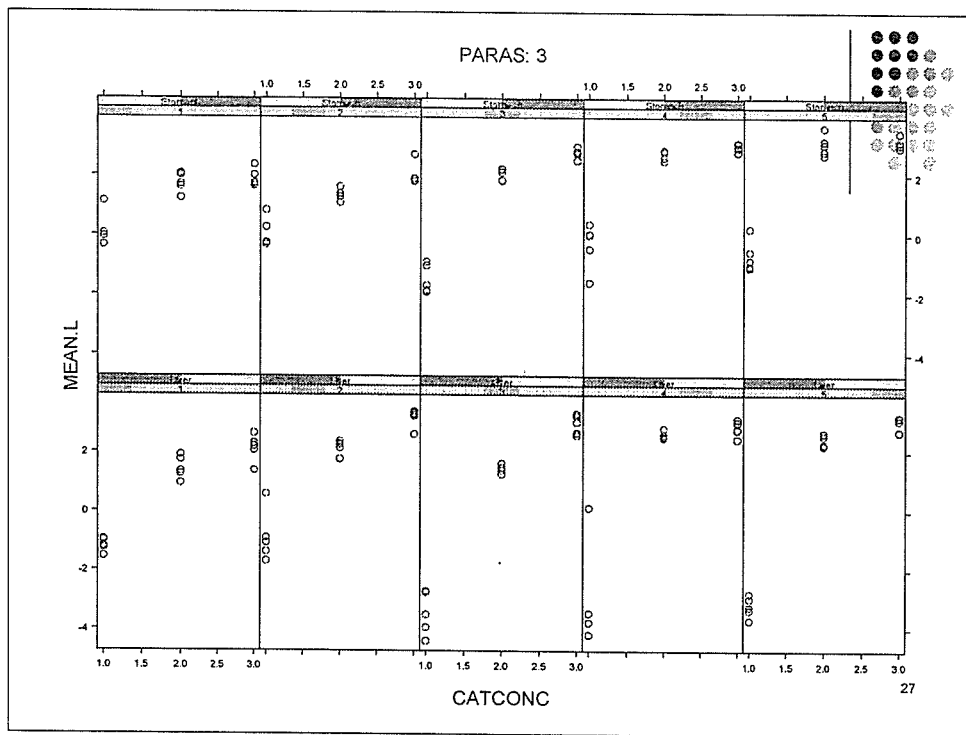
Dose response relationships of mean of log transformed values



- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
- Level 2: Facility code
 - 1-5
- Level 1: Region
 - Liver
 - Stomach
- In case of zero value, we used $\log(0.001)$.

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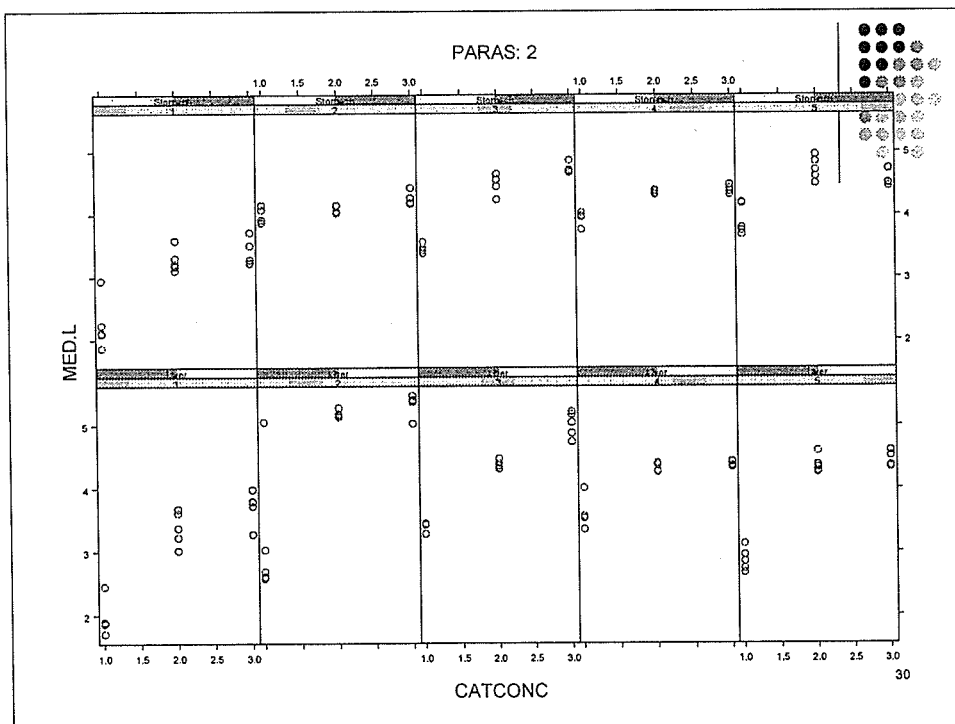
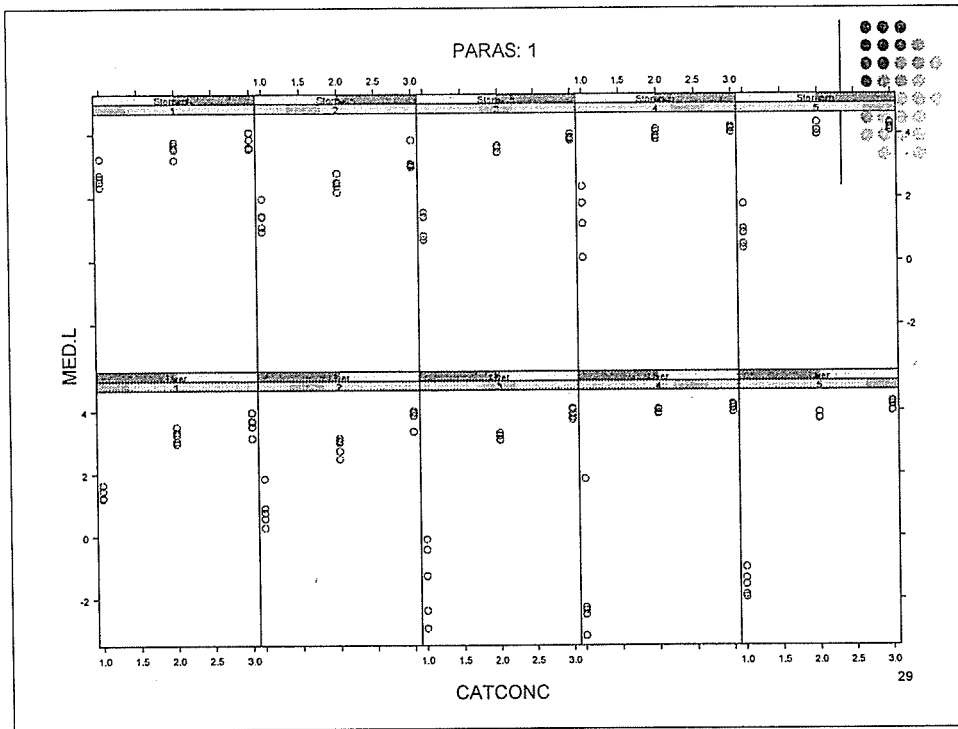


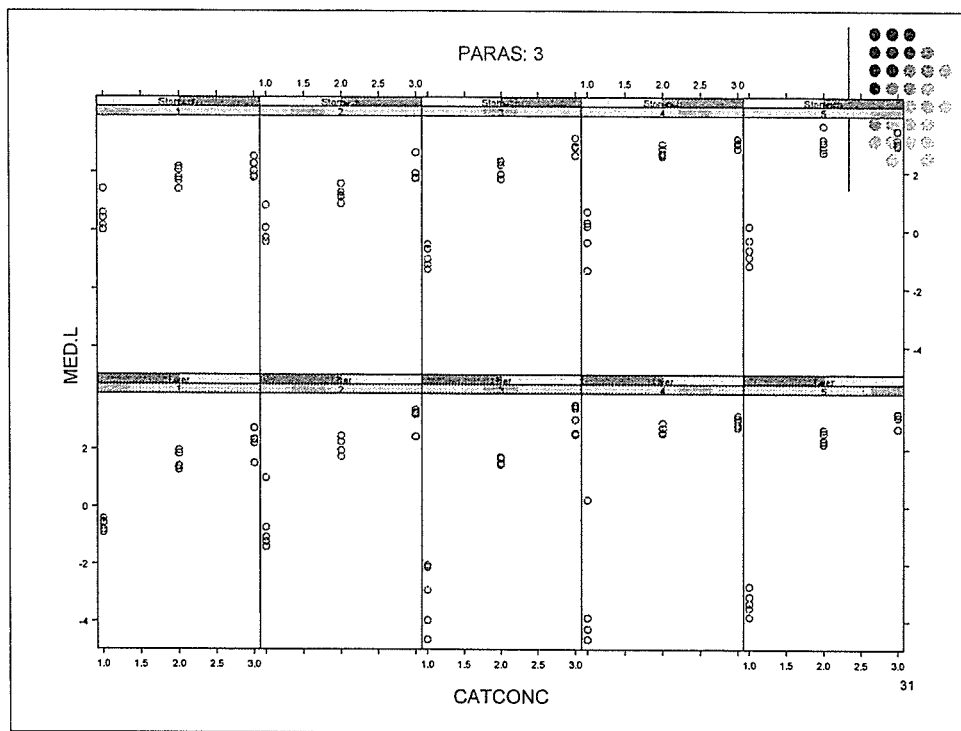


Dose response relationships of median of log transformed values

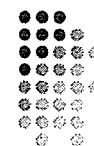
- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
- Level 2: Facility code
 - 1-5
- Level 1: Region
 - Liver
 - Stomach
- In case of zero value, we used $\log(0.001)$.

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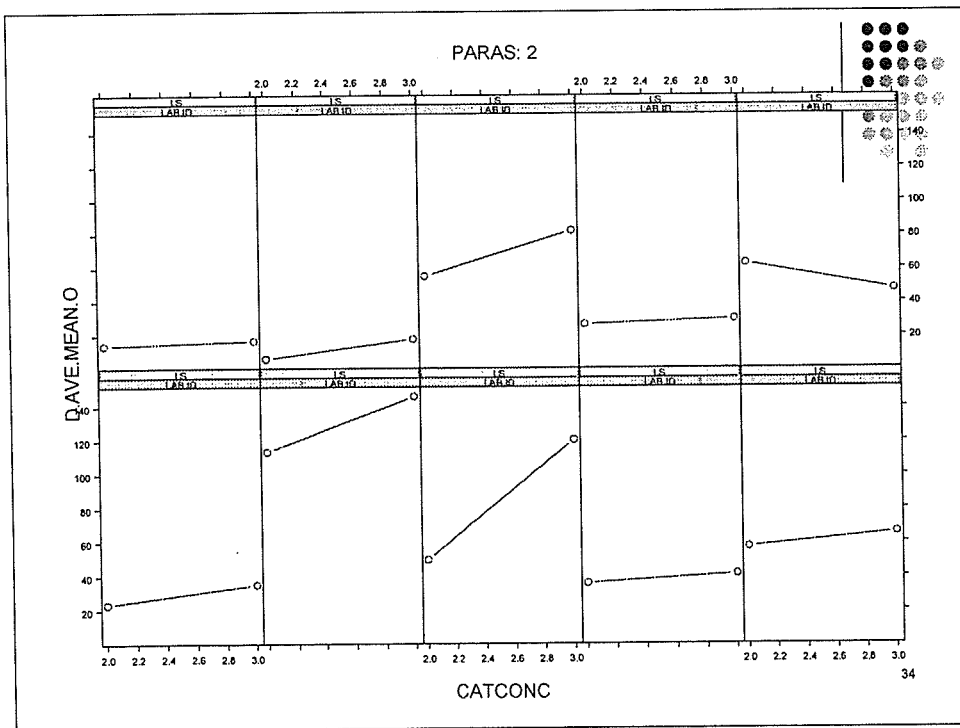
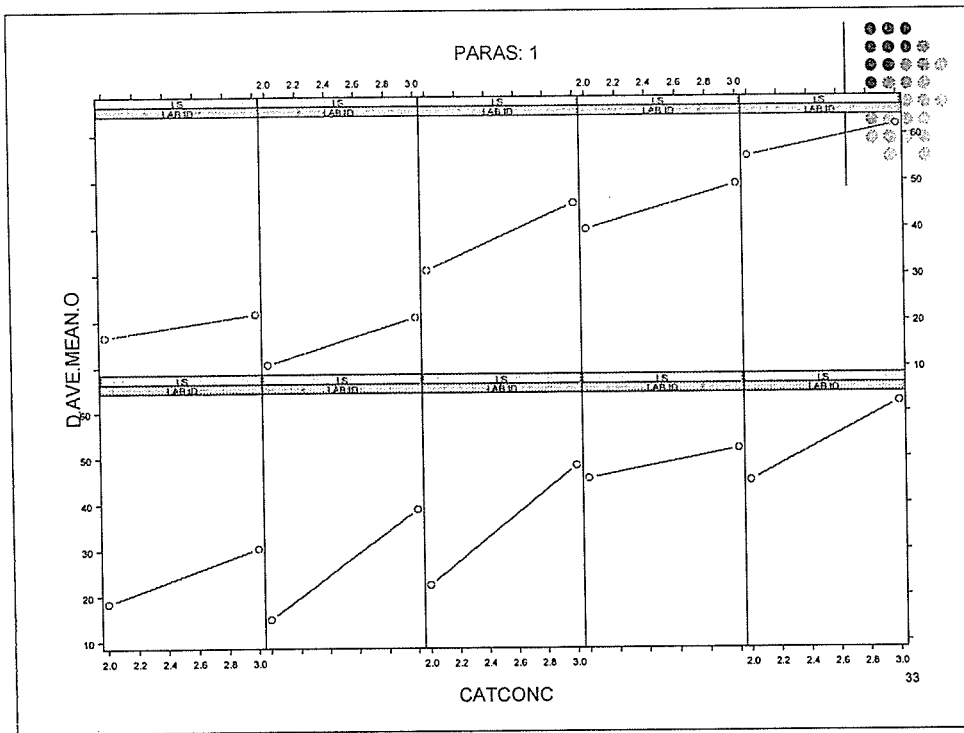
Effect on mean of observed values

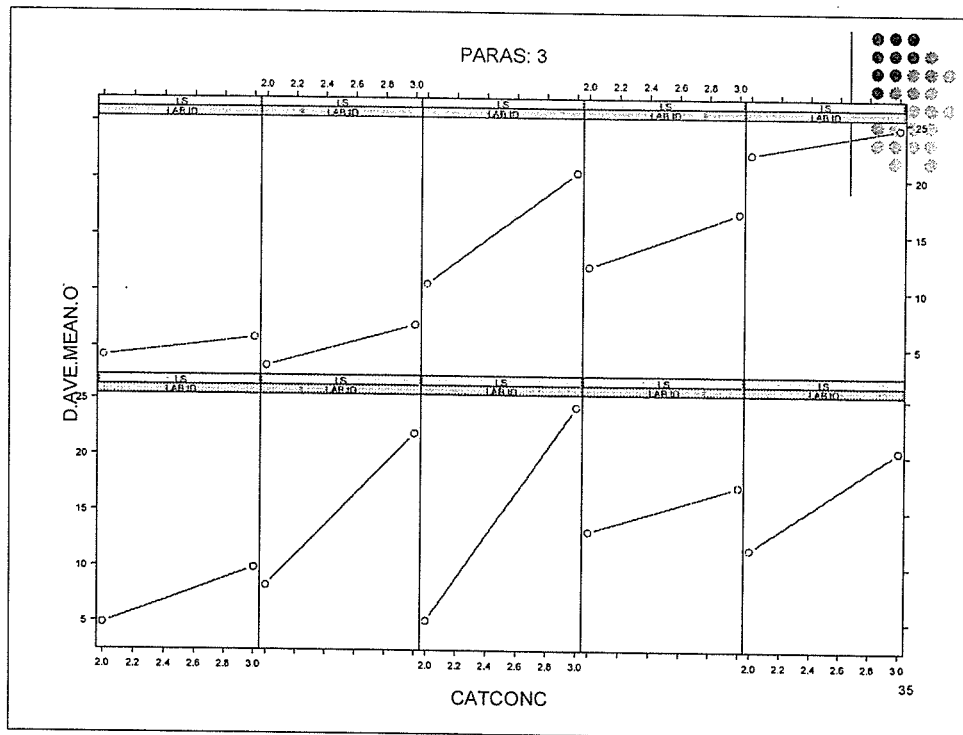


Difference between the averaged estimate in the dose group and it in the vehicle group

- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
- Level 1: Region
 - Liver
 - Stomach
- Level 2: Facility code
 - 1-5

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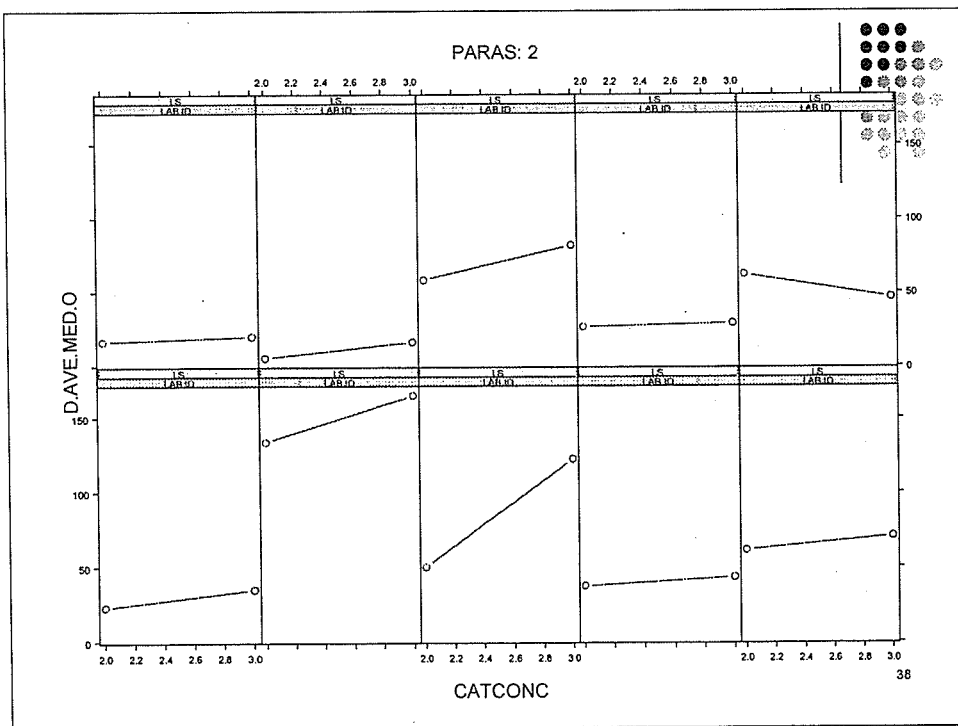
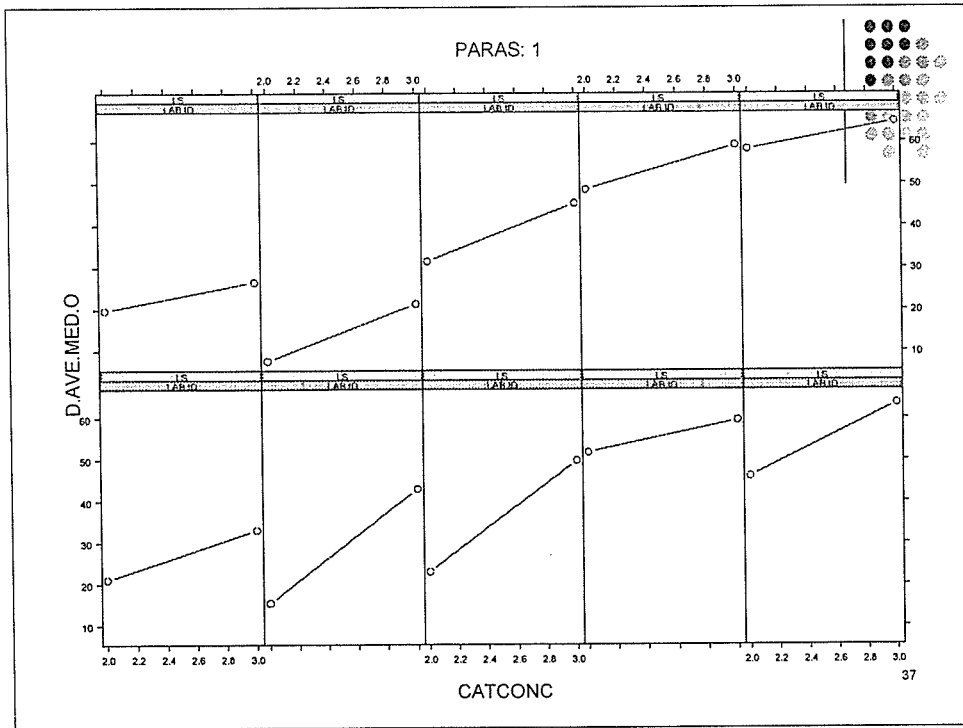


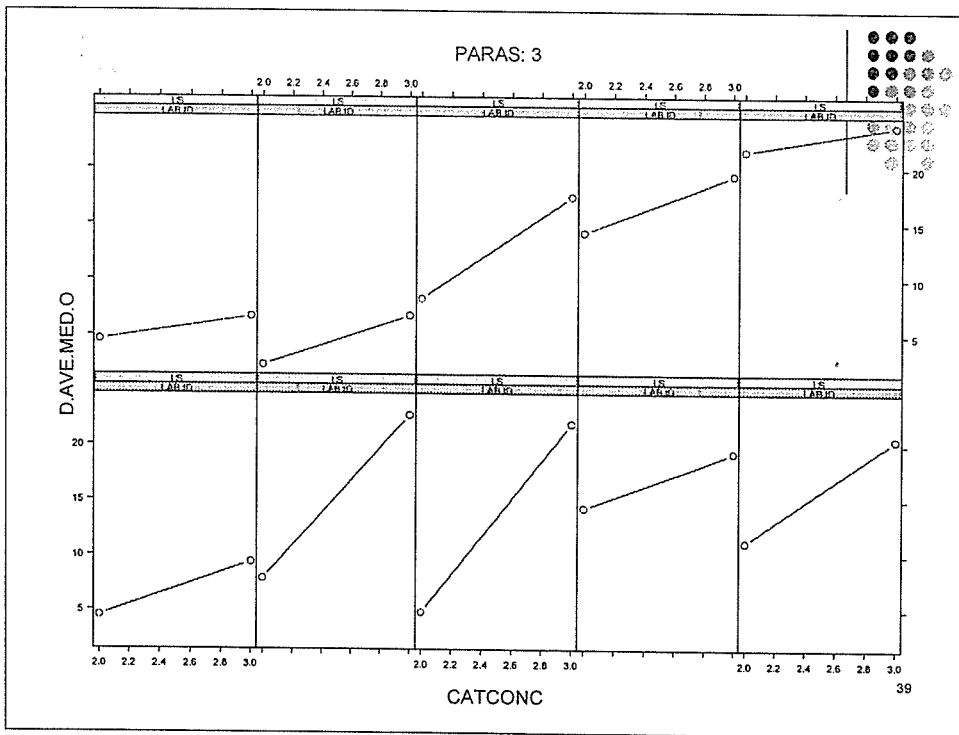
Effect on median of observed values

Difference between the averaged estimate in the dose group and it in the vehicle group

- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
- Level 2: Facility code
 - 1-5
- Level 1: Region
 - Liver
 - Stomach

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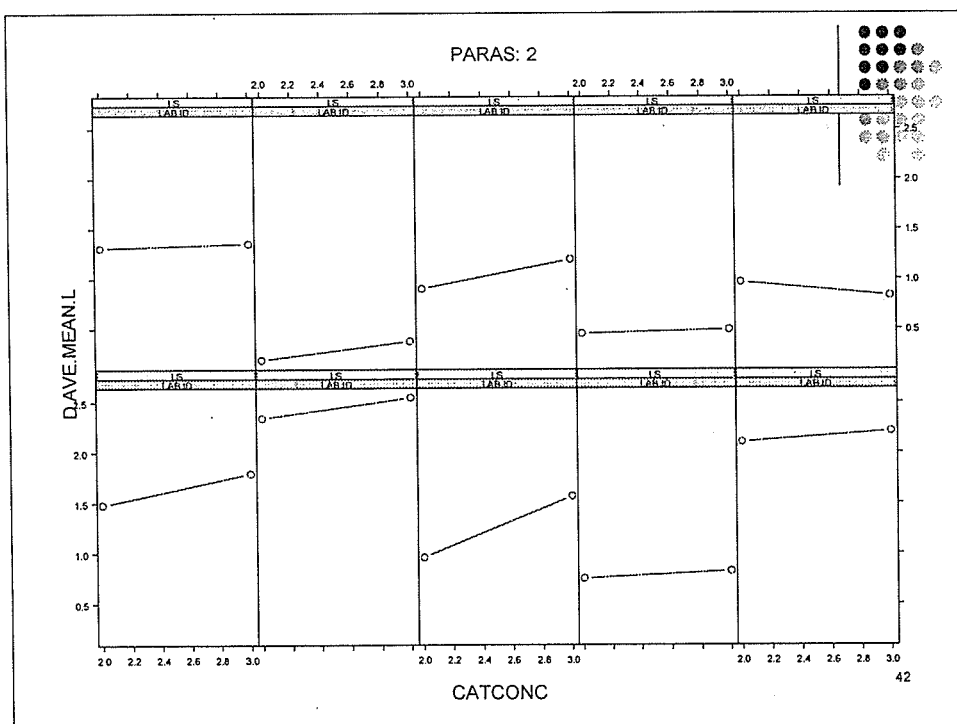
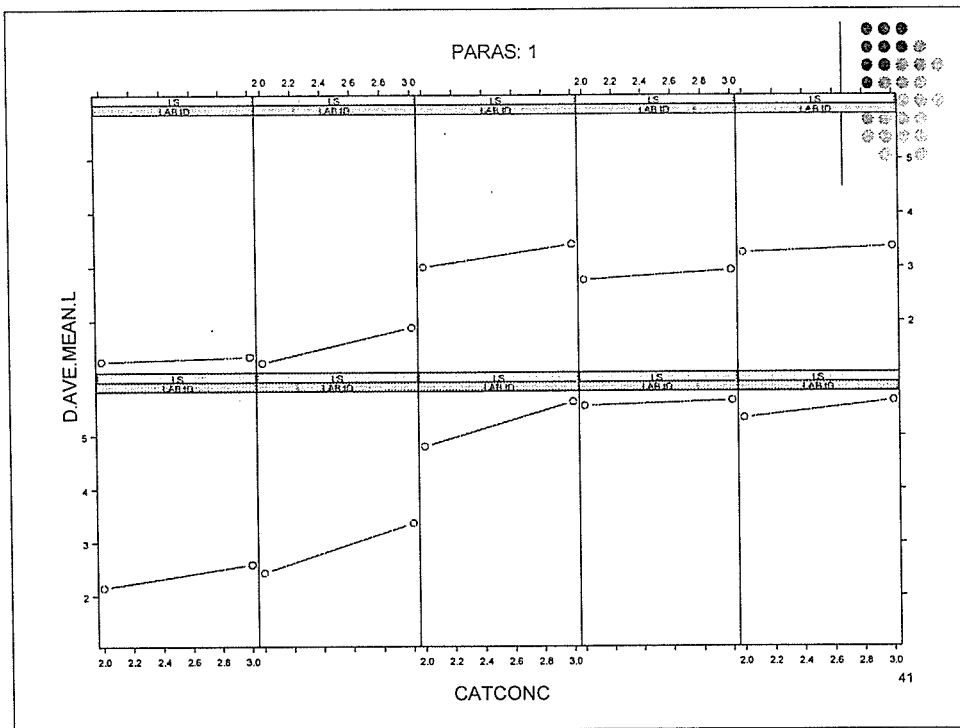


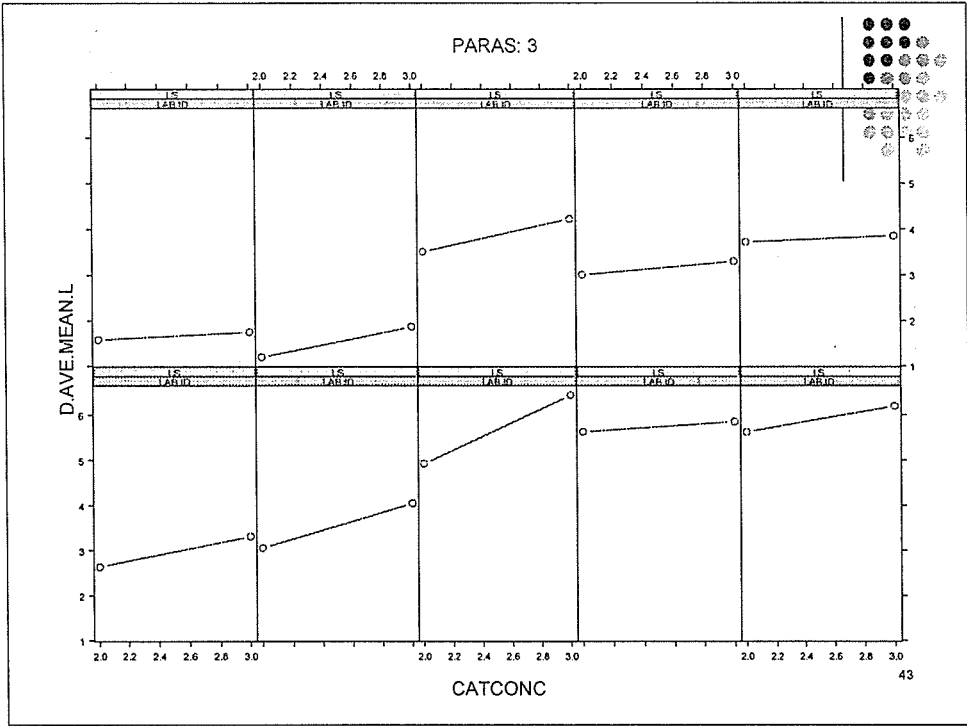
Effect on mean of log transformed values

Difference between the averaged estimate in the dose group and it in the vehicle group

- PARAS
 - 1: % tail DNA
 - 2: tail length
 - 3: Olive tail moment
- Level 2: Facility code
 - 1-5
- Level 1: Region
 - Liver
 - Stomach

• In case of zero value, we used $\log(0.001)$. ⁴⁰





Effect on median of log transformed values

Difference between the averaged estimate in the dose group and it in the vehicle group

- PARAS
 - ⊛ 1: % tail DNA
 - ⊛ 2: tail length
 - ⊛ 3: Olive tail moment
 - Level 2: Facility code
 - ⊛ 1-5
 - Level 1: Region
 - ⊛ Liver
 - ⊛ Stomach
- In case of zero value, we used $\log(0.001)$. ⁴⁴

