

TPOL offline status

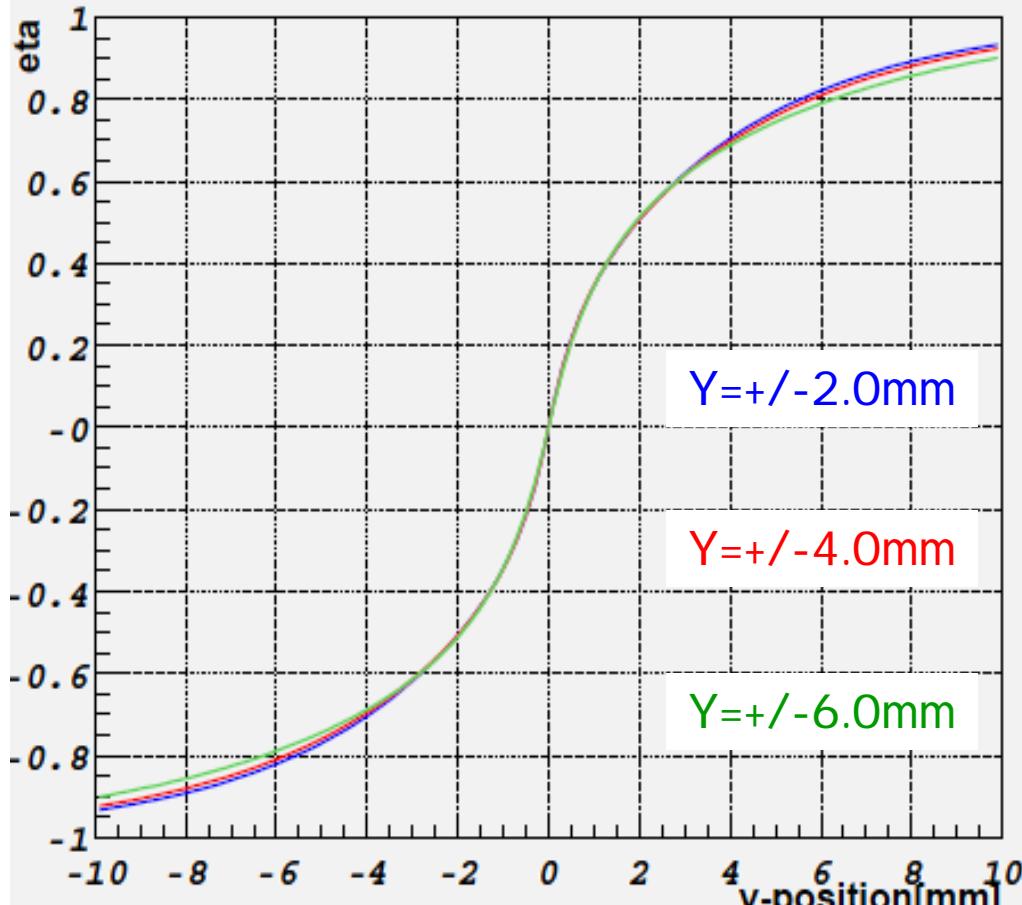


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Osamu Ota



- Table scan
- Study on the y-range dependence of parameters.
 - eta-y parameters fixed.
 - beamsize fixed
 - sumS1((S1R+S1L)/2) fixed
- Study on the eta-range dependence.
- Study on the beamsize dependence.
- Summary & Future plan.

Table scan



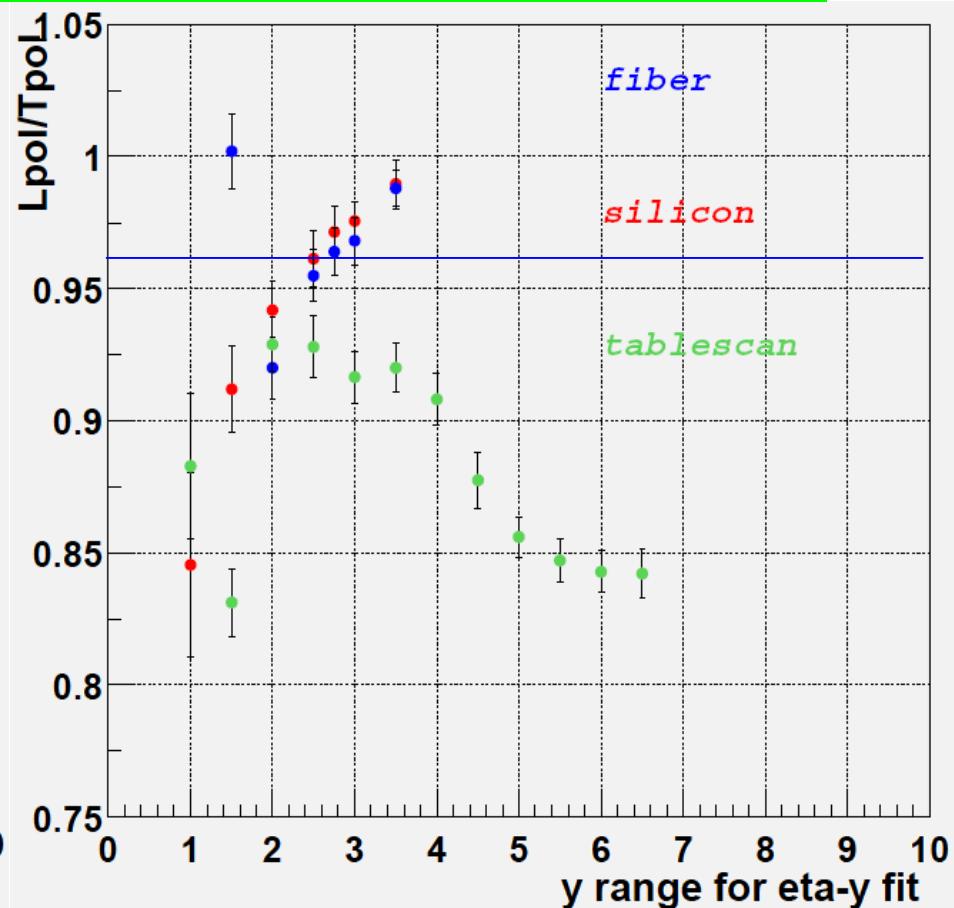
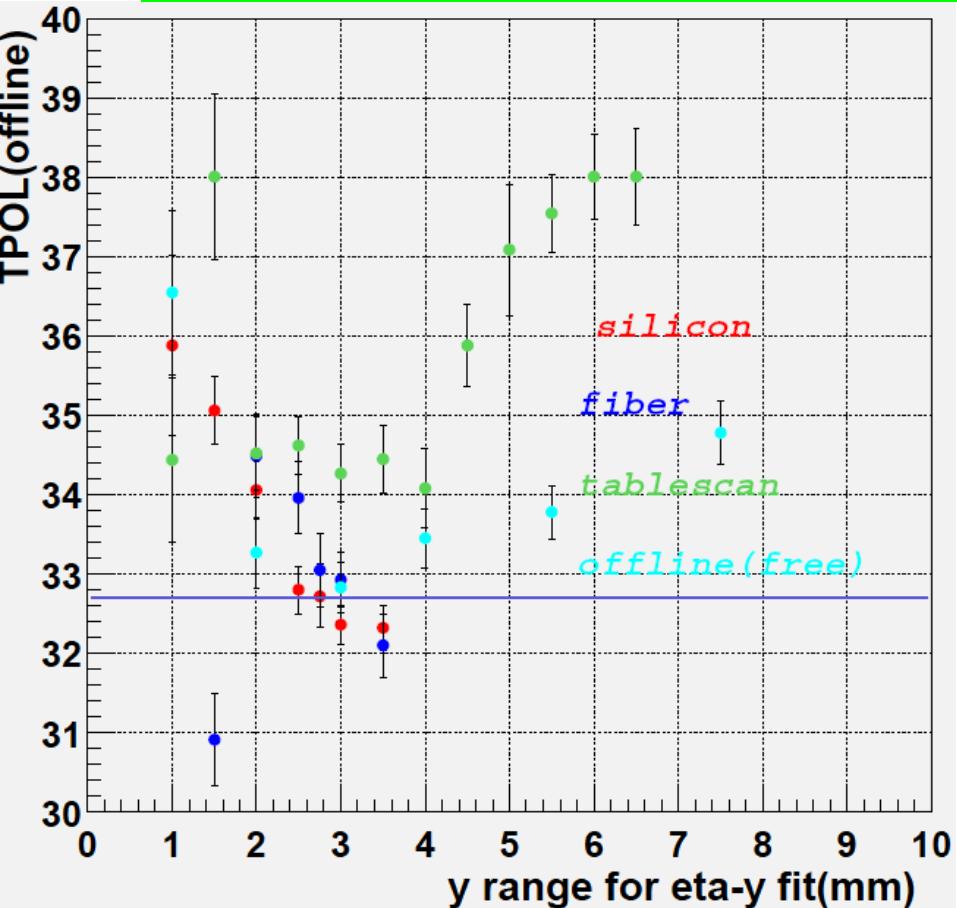
- 27th.Apr.2004
- Scan range
 - $y=-5.0\text{mm} \sim +5.0\text{mm}$.
 - 0.5mm step.

The eta-y curves are almost same, even when fitting range is different.

Study on the y-range dependence

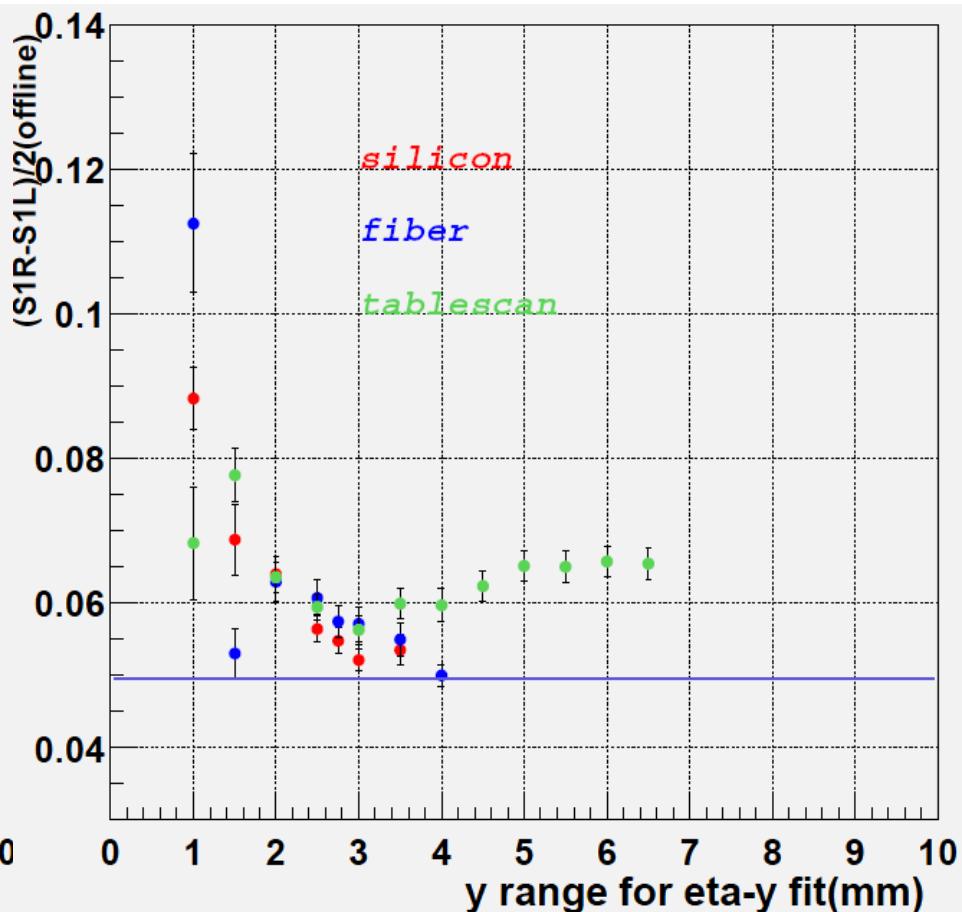
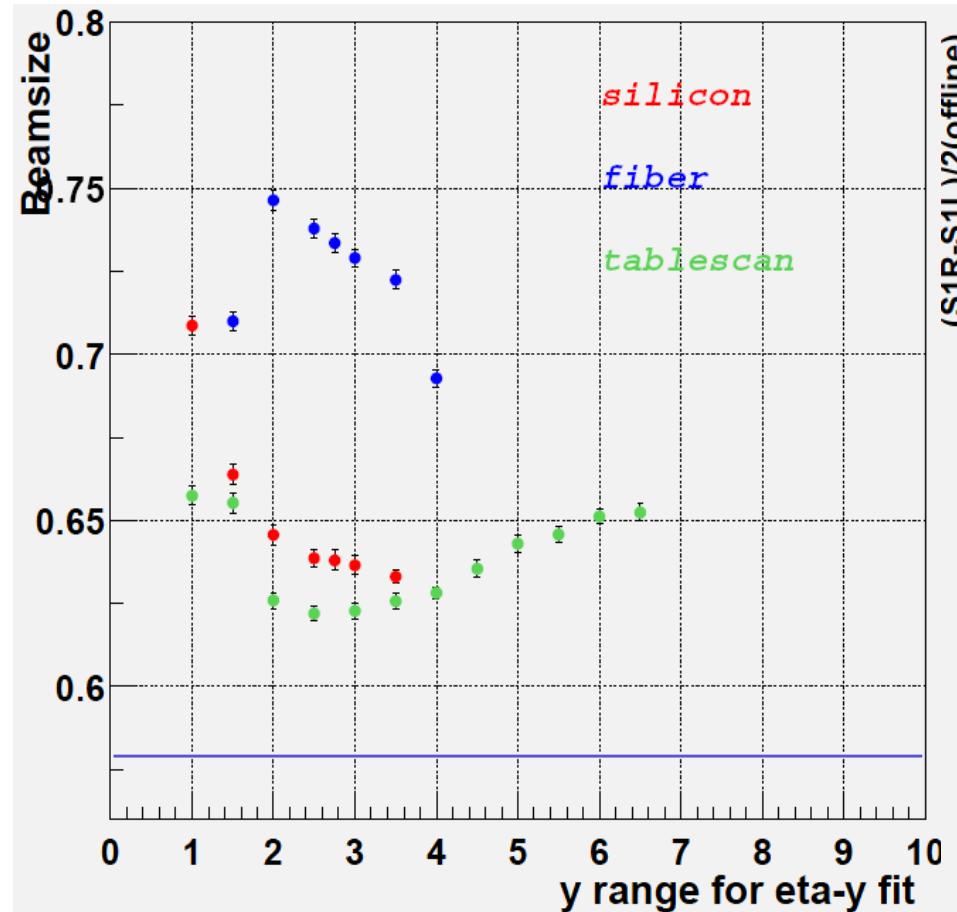
- Purpose.
 - To check stability of the offline method against y.
 - To see this, the y-range used in the offline method was varied(eta-range was varied correspondingly).
- Data used to extract eta-y fitting parameters.
 - Silicon/Fiber.(7th.Mar.2004)
 - table scan(27th.Apr.2004)
- CAL Data sample for offline method.
 - 7th.Mar.2004.
 - Check y-range dependence with one data sample

Offline fit with eta-y fixed



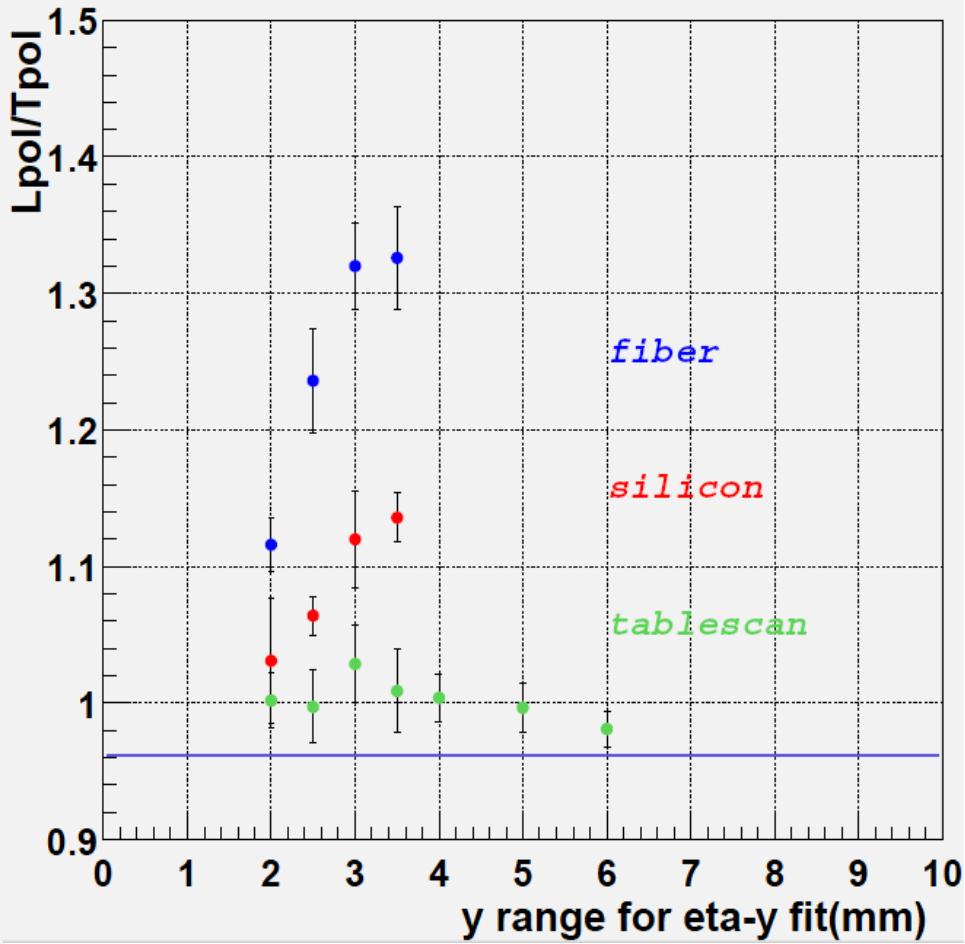
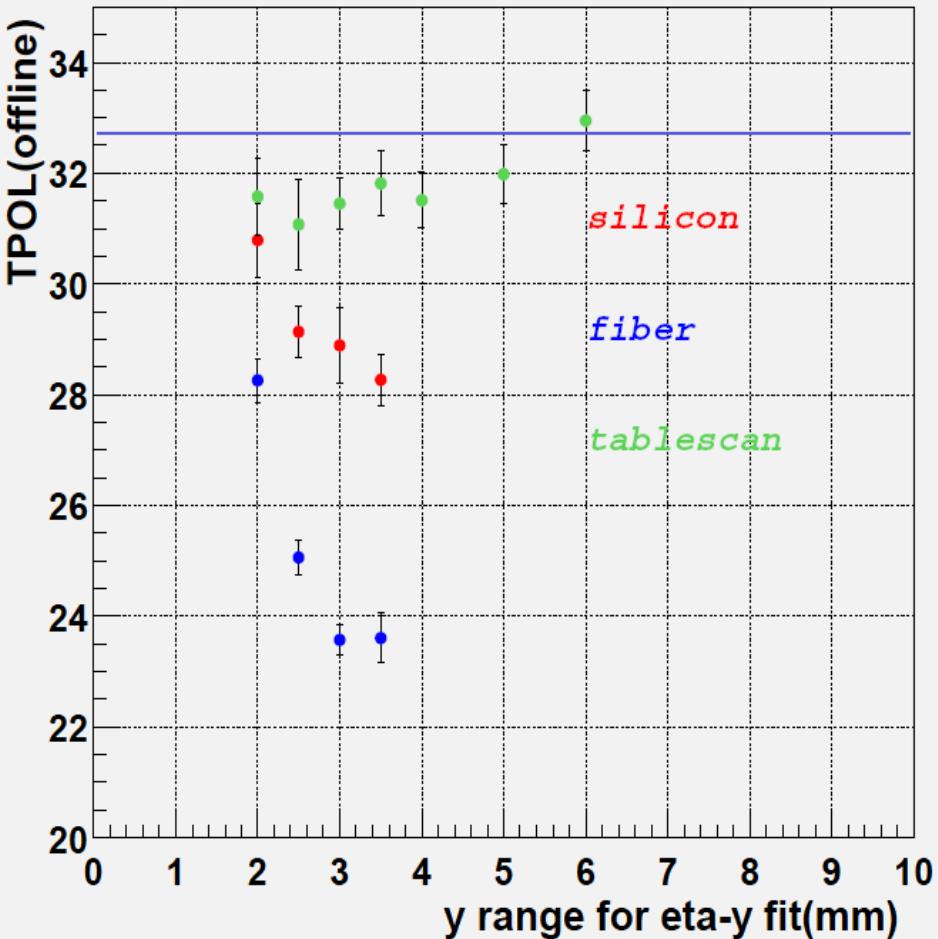
Parameters obtained from offline method are not stable in y -range, although eta-y curves are almost same.

Offline fit with eta-y fixed



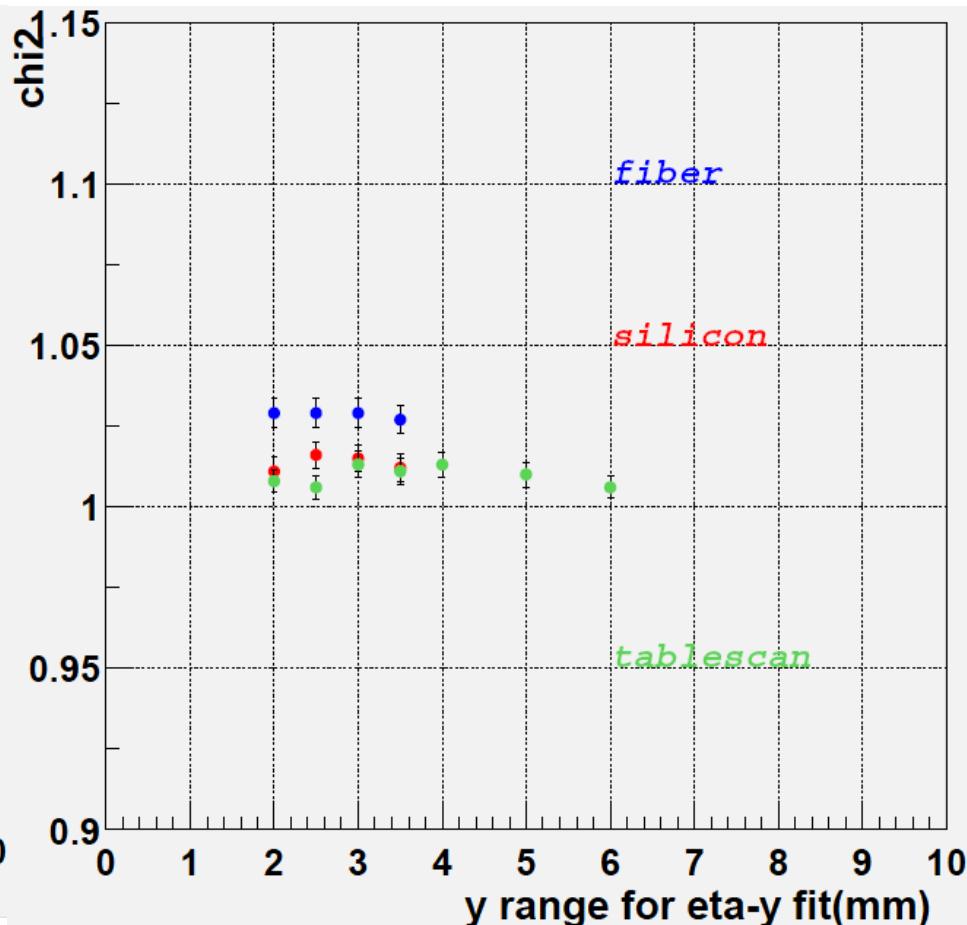
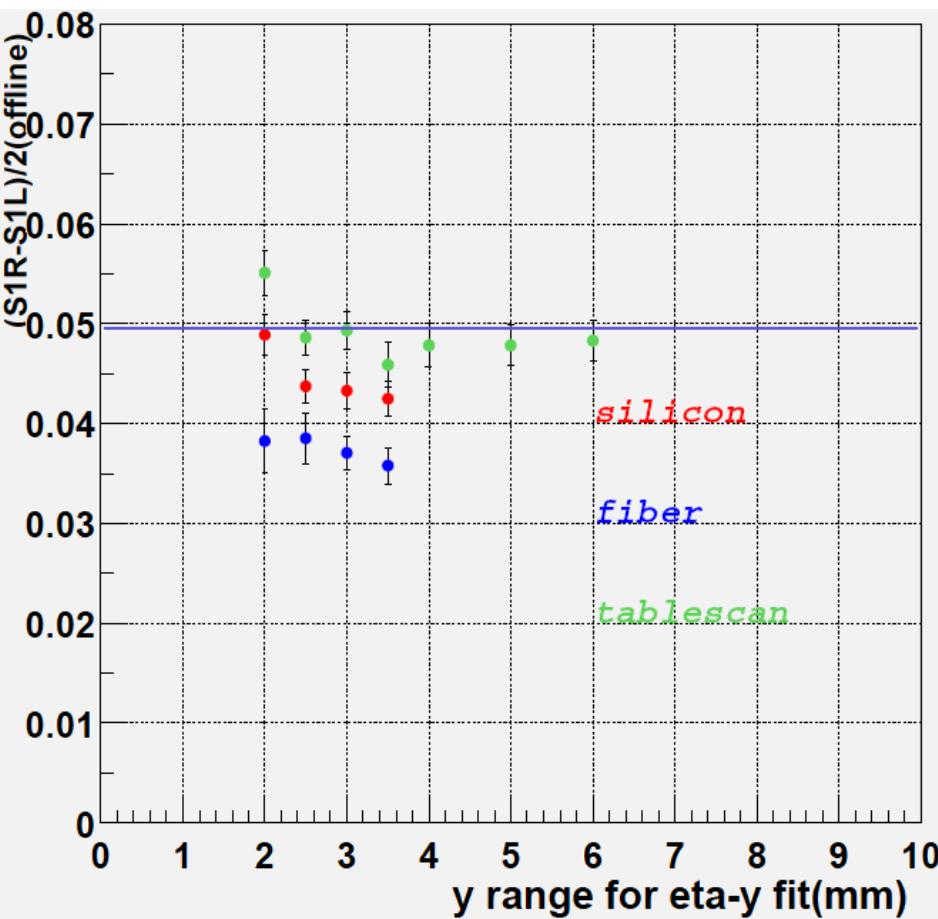
As for beamsize, the difference between fiber and silicon is larger than other fitting parameters.

Offline fit with beamsize fixed

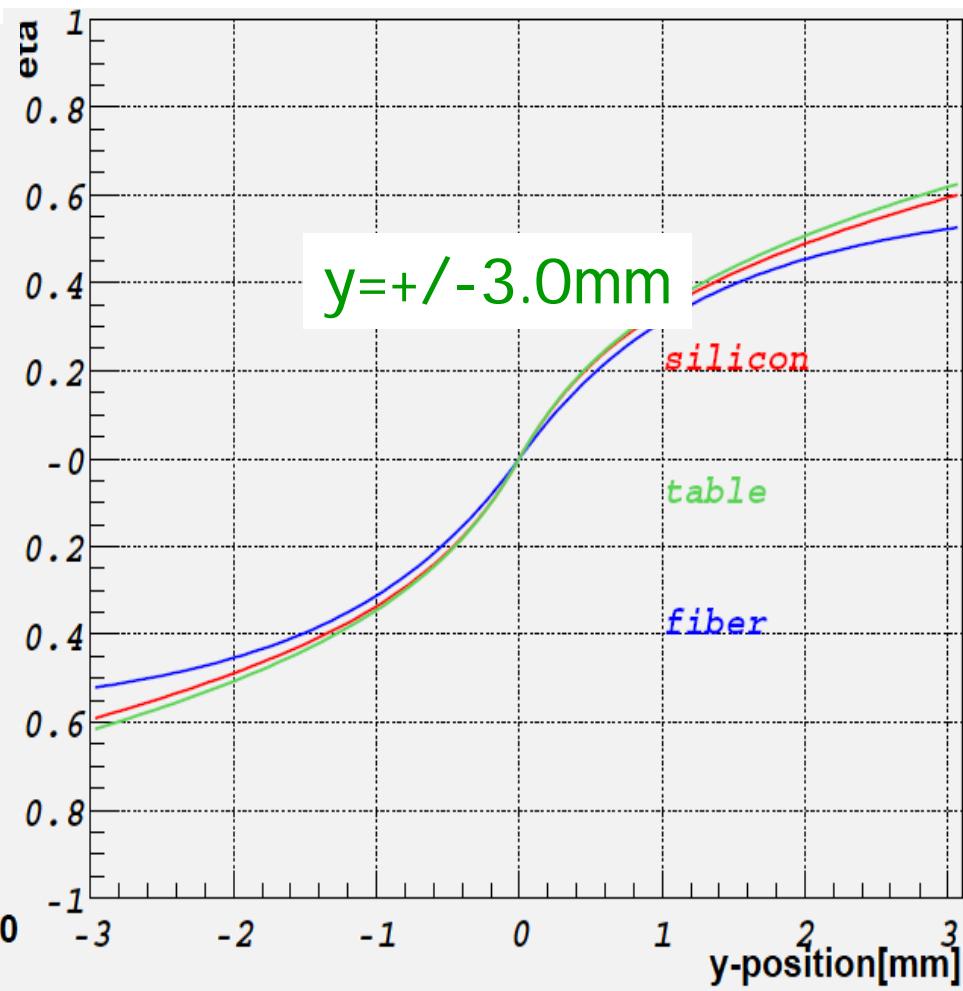
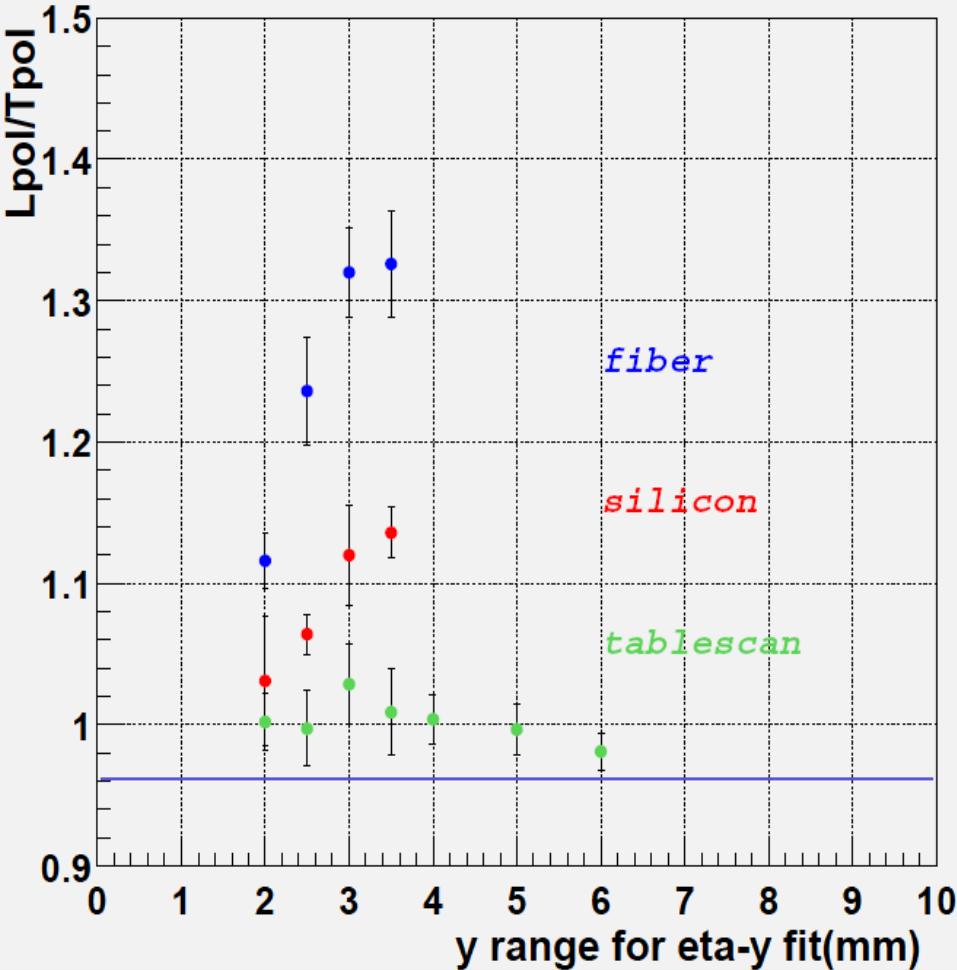


Polarization from offline method with tables can
is stable in y .

Offline fit with beamsize fixed

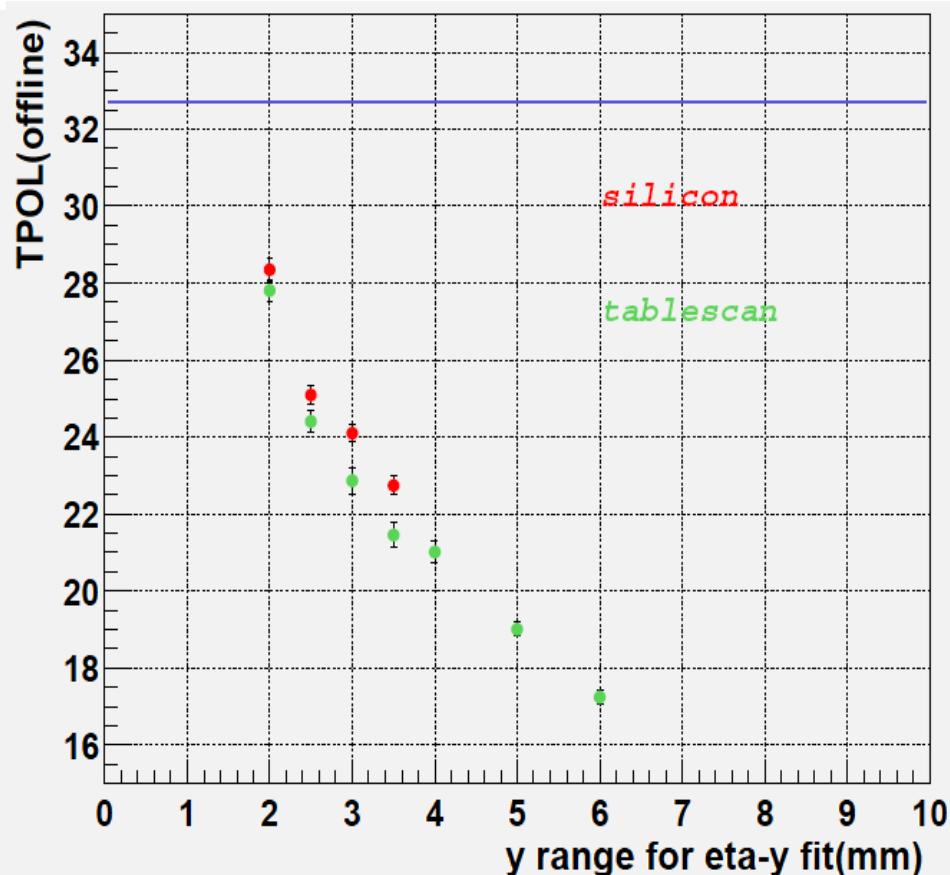
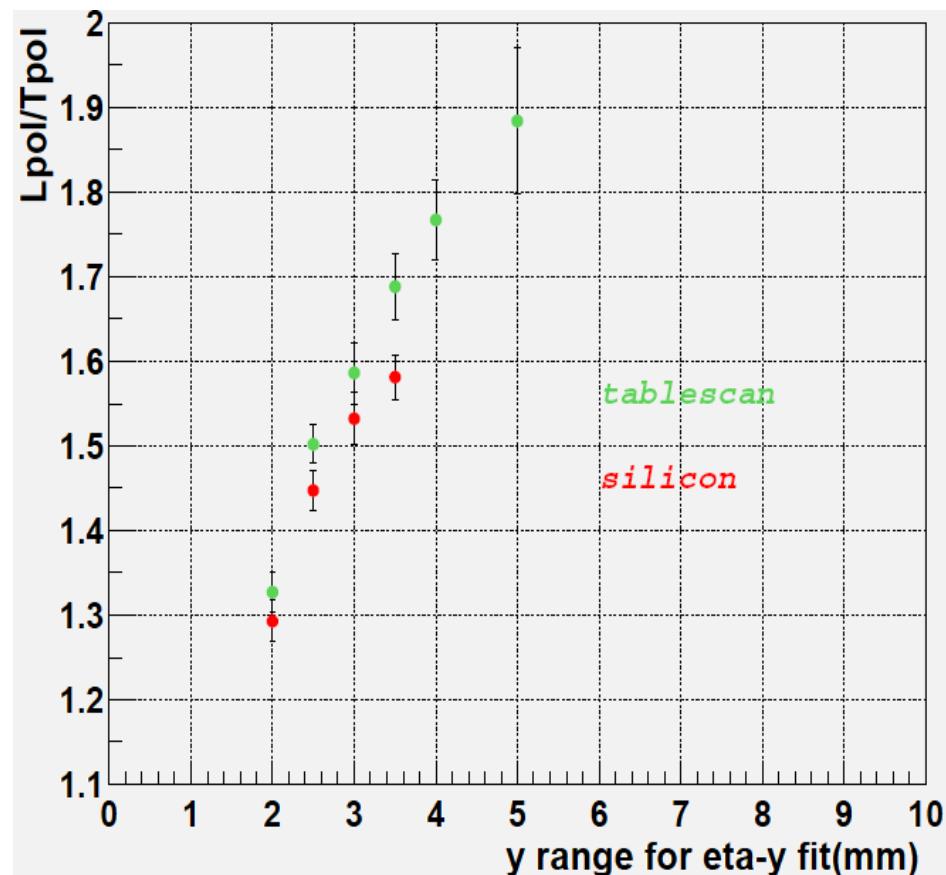


It seems to be consistent in online and offline analysis when using this data(7th.Mar.2004).



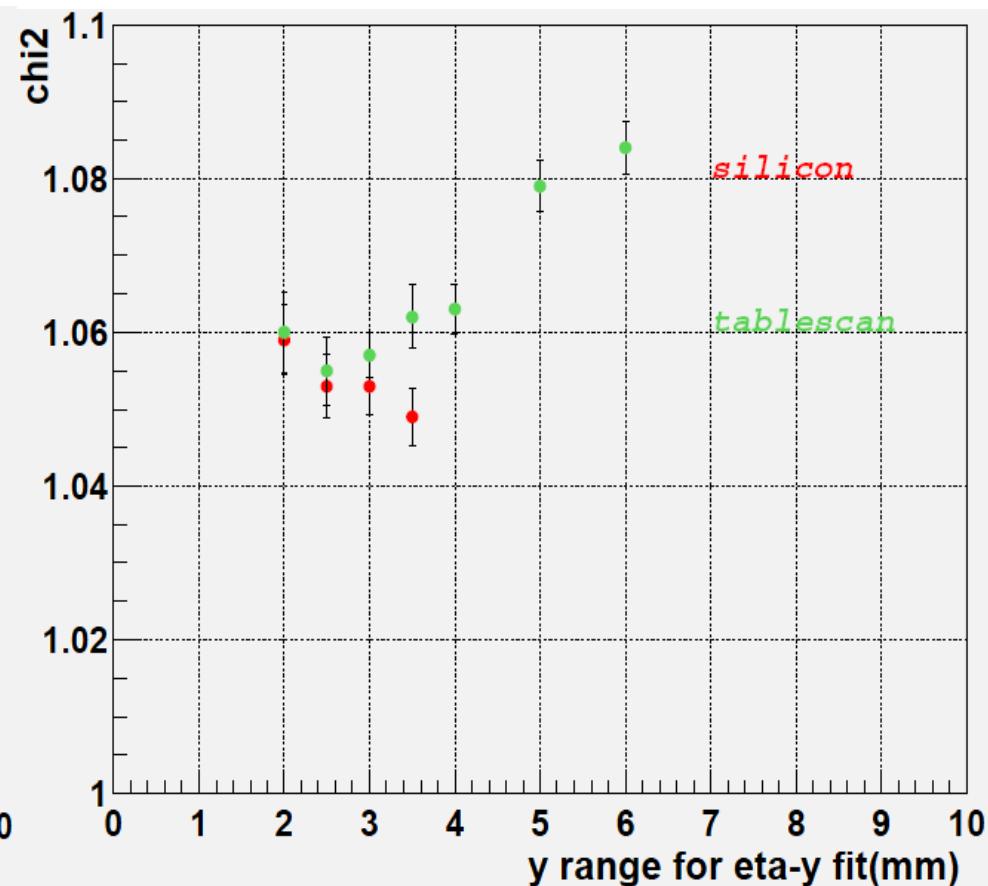
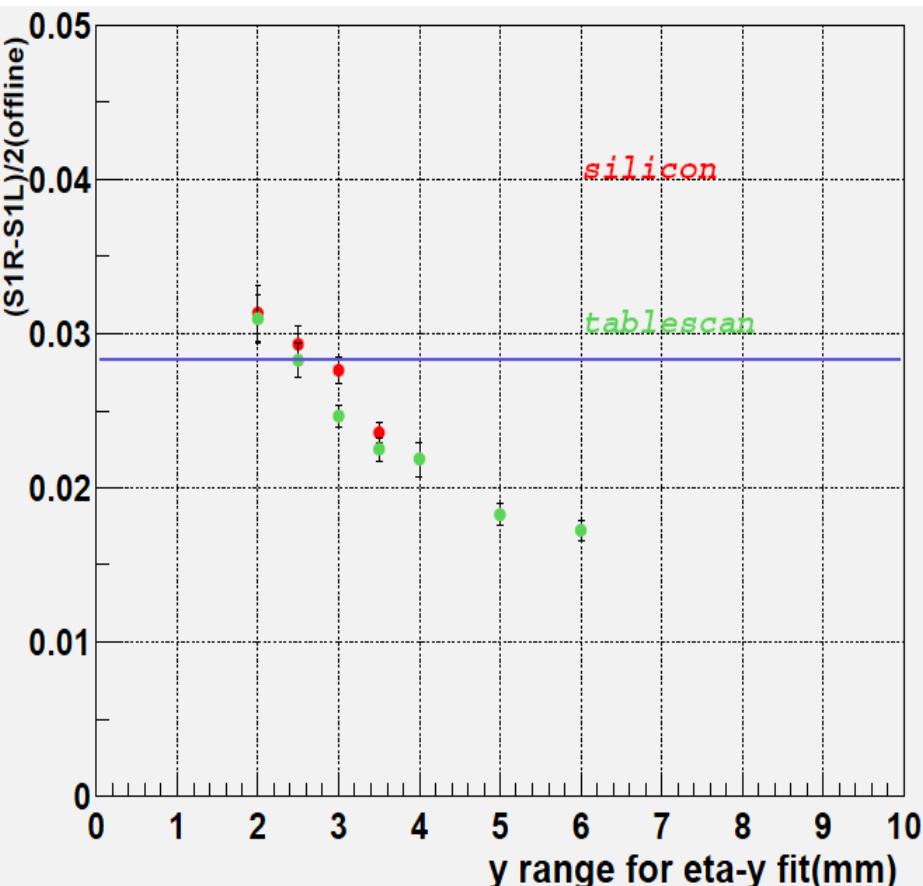
The difference of eta- y curve at each fitting range reflects on parameters from offline fitting
 → it seems to be reasonable to be beamsize fixed.

Beamsize fixed on 31st.Jan.2004



Polarization from offline method depends on y -range strongly with data on 31st.Mar.2004.

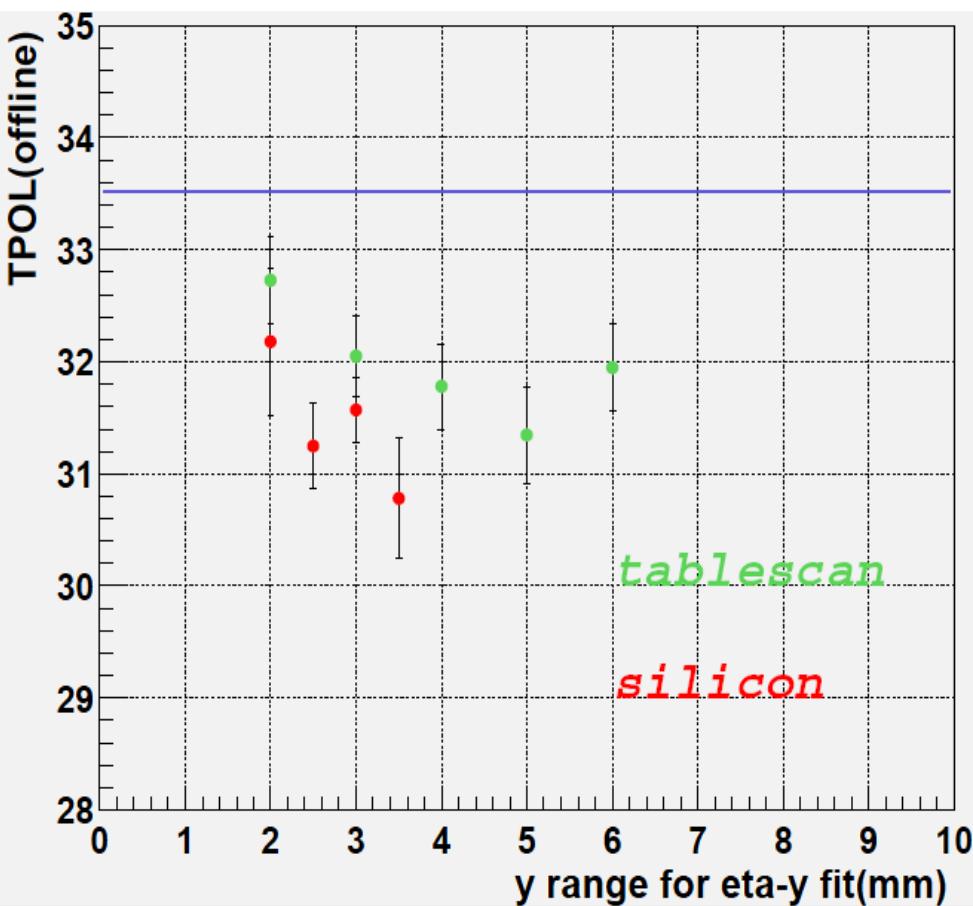
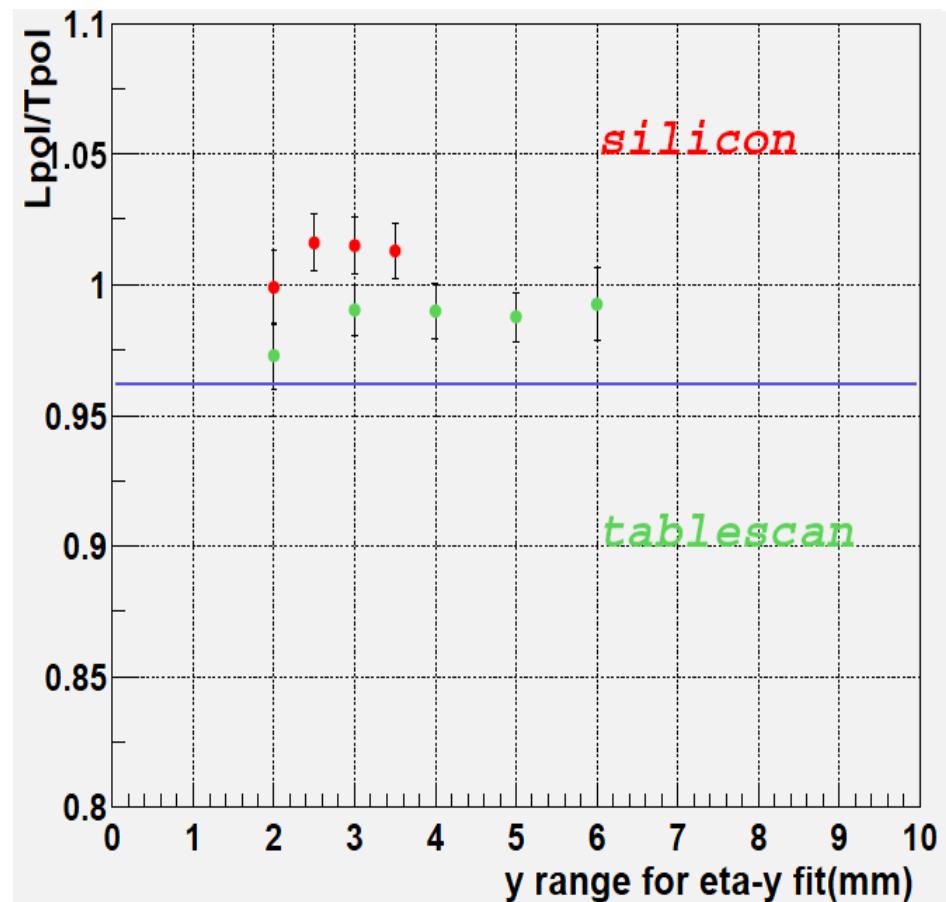
Beamsize fixed on 31st.Jan.2004



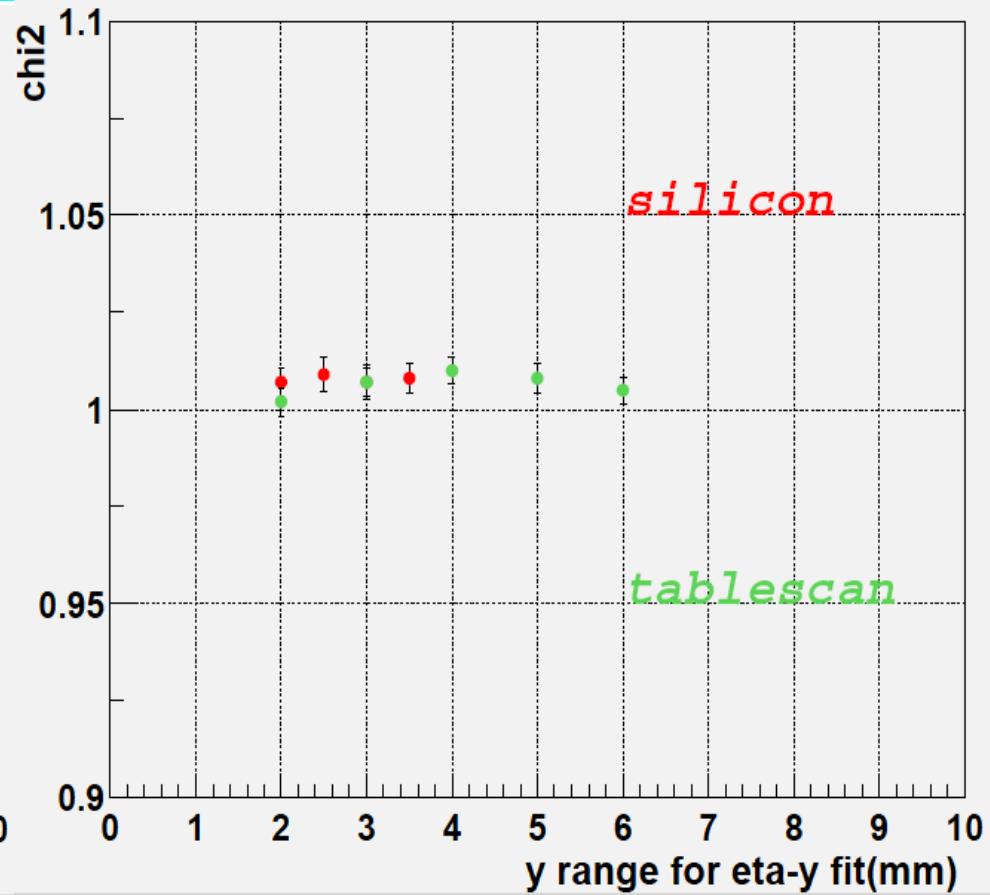
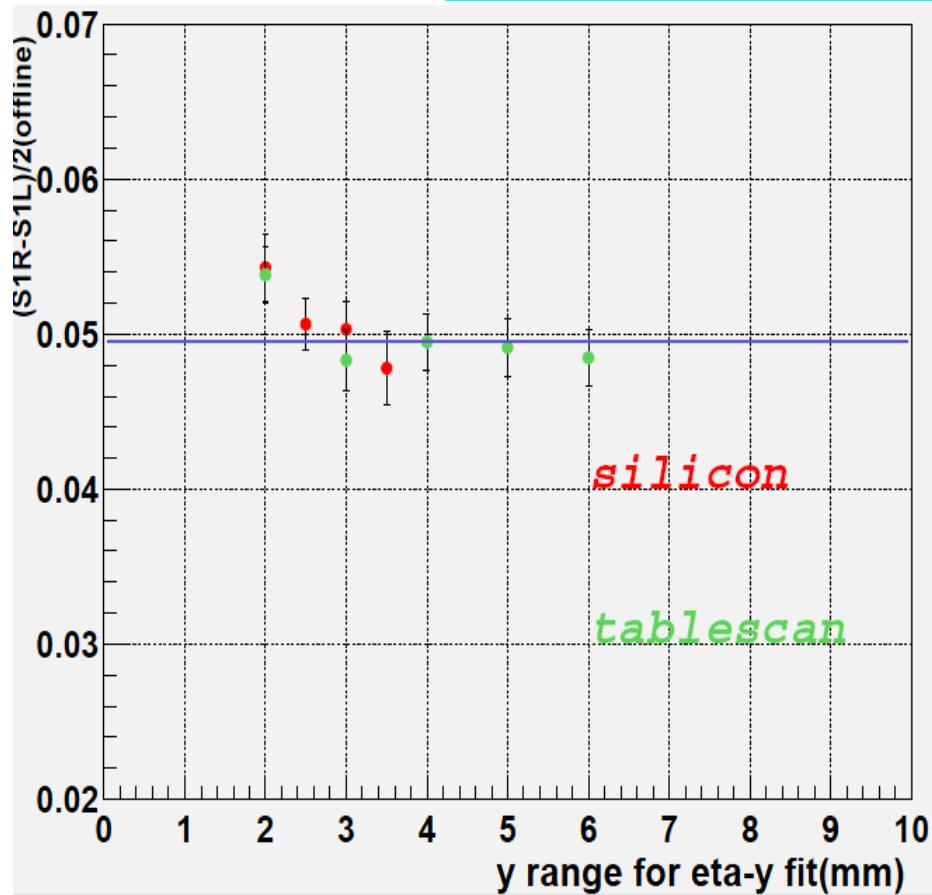
...also,sumS1 fixed

- eta-y parameters
 - from Silicon,table scan.
- beamsize
 - from online analysis.
- $\text{sumS1}((\text{S1R}+\text{S1L})/2)$
 - extract from first minute data.
 - fixed to the rest of data with the value.
- Check with some CAL data.
 - 7th.Mar.2004.
 - 31st.Jan.2004.
 - 20th.Jan.2004.

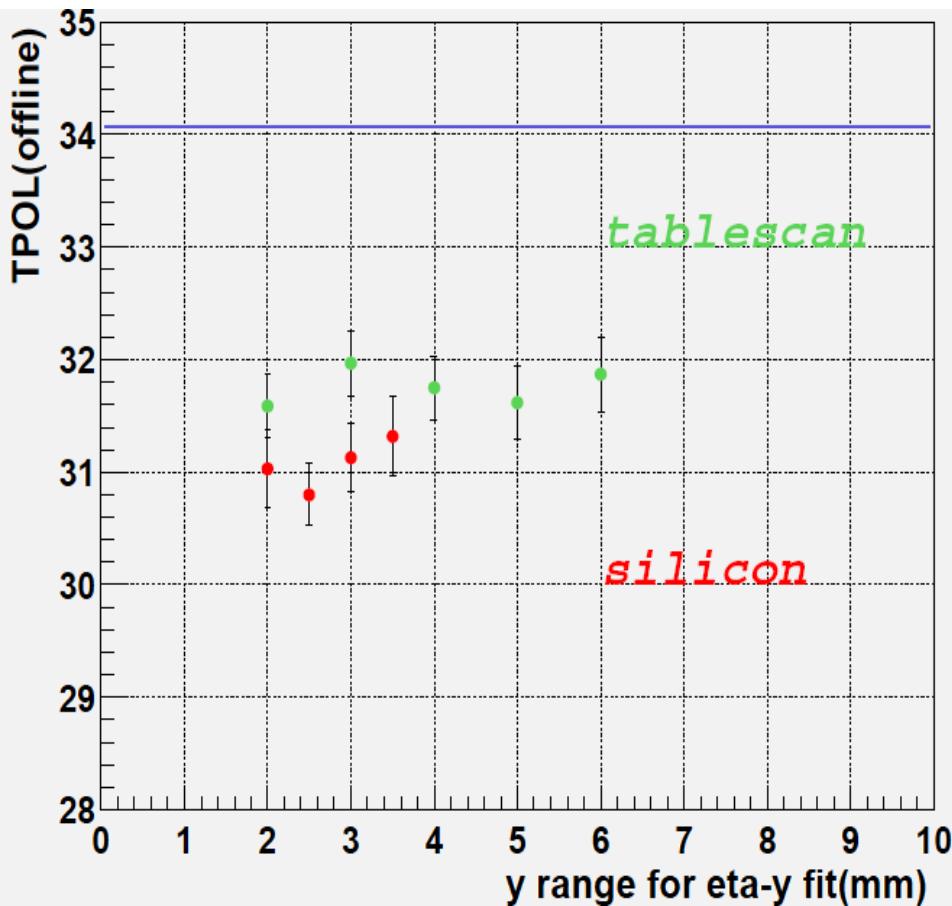
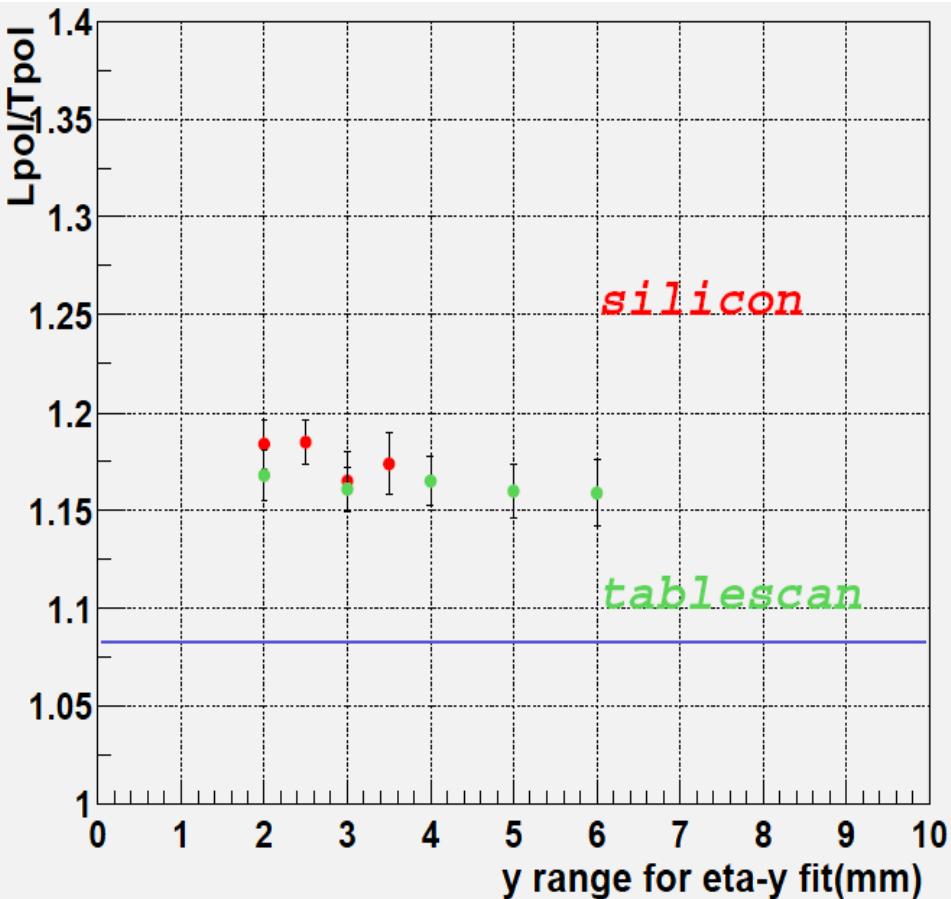
7th.Mar.2004



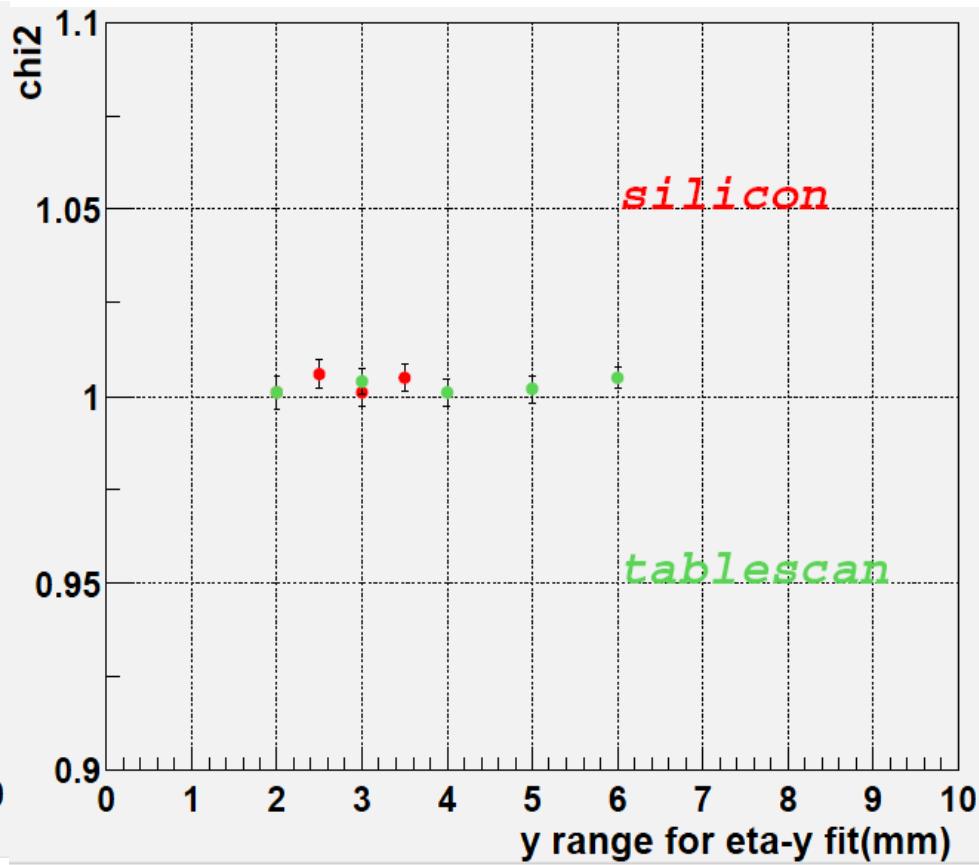
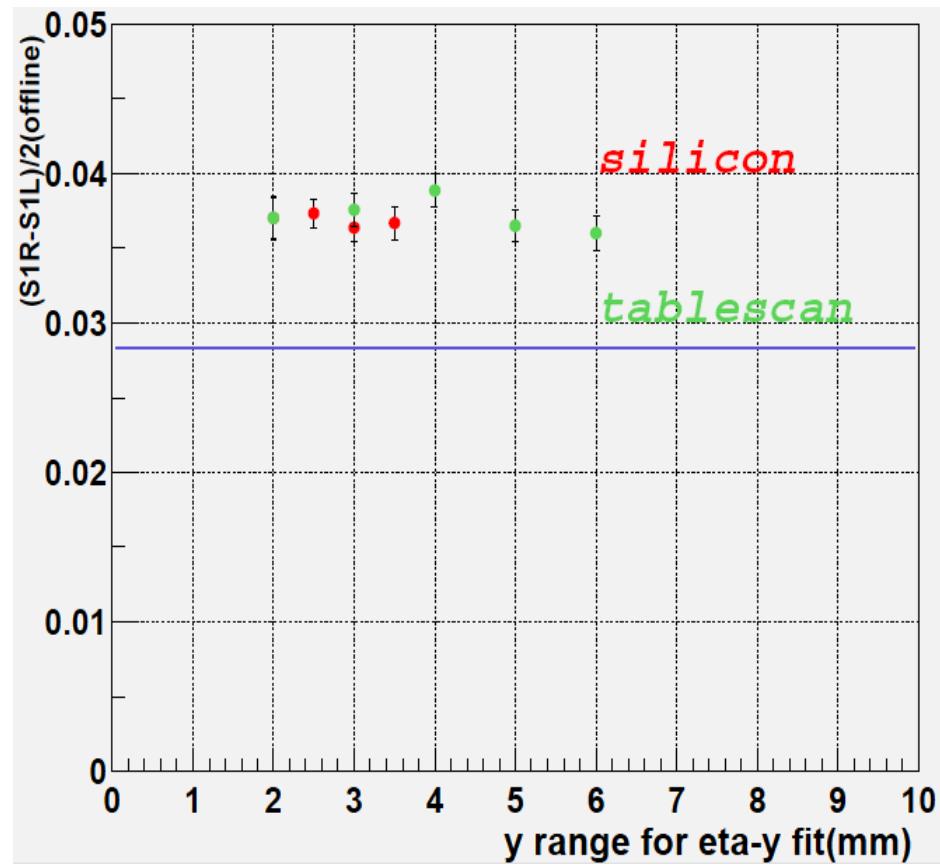
7th.Mar.2004



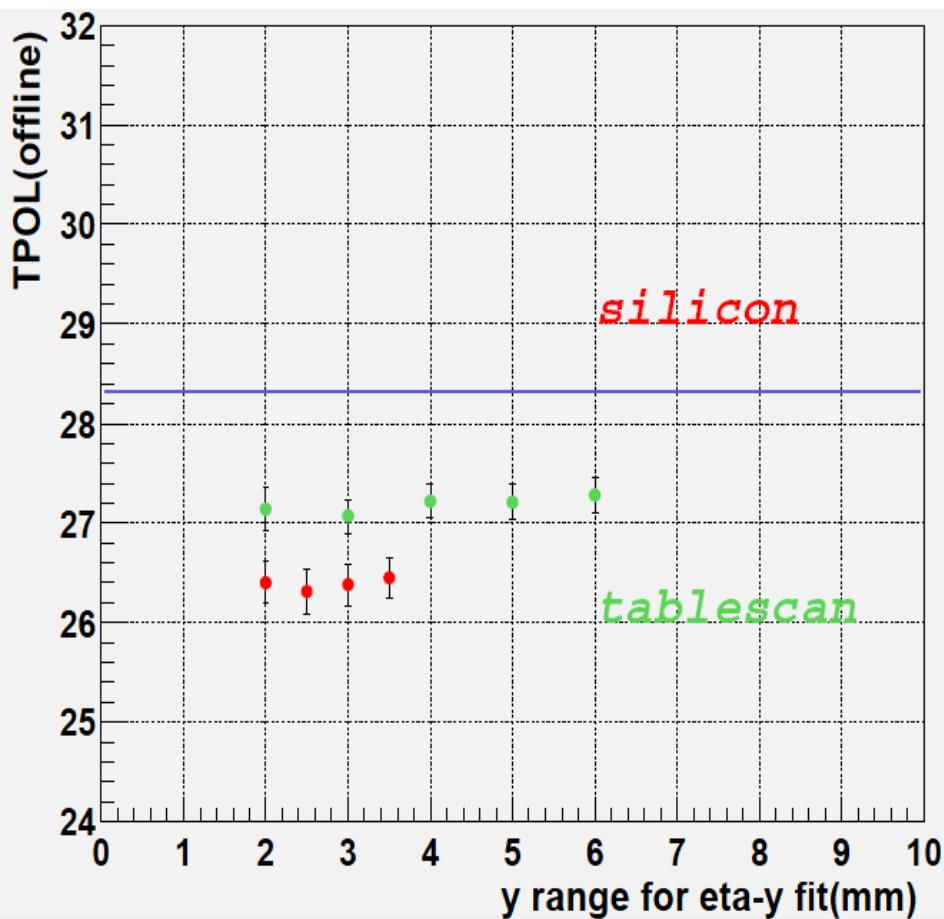
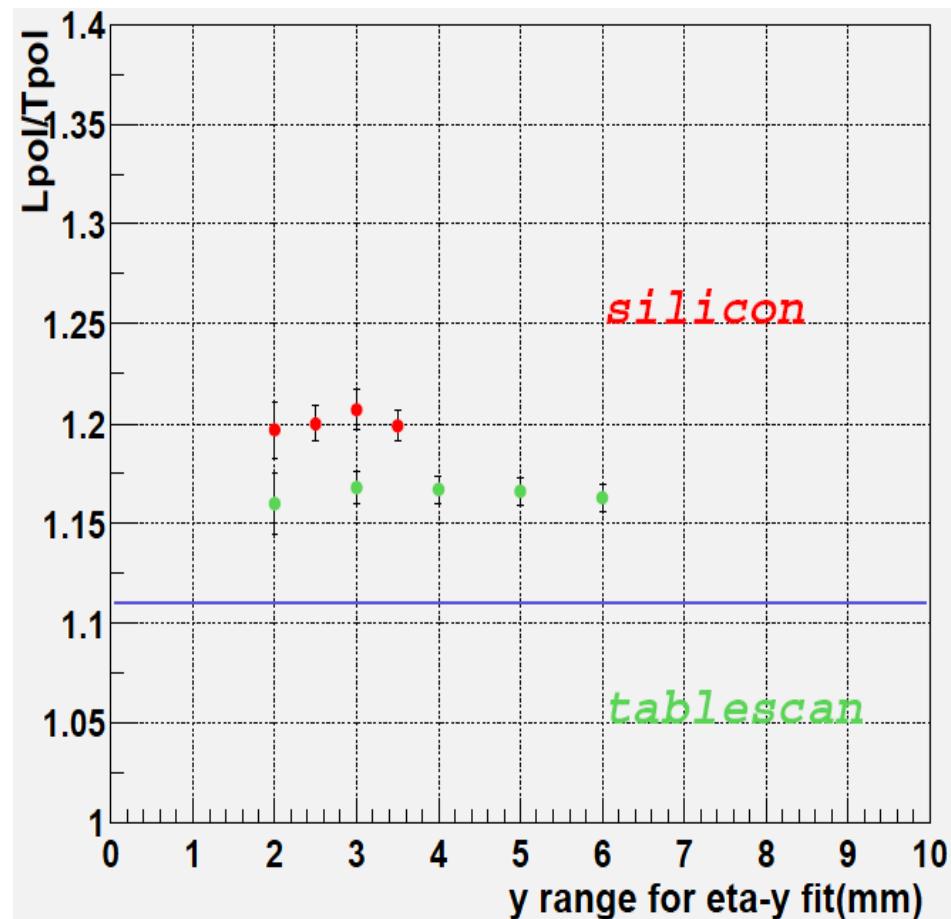
31st.Jan.2004



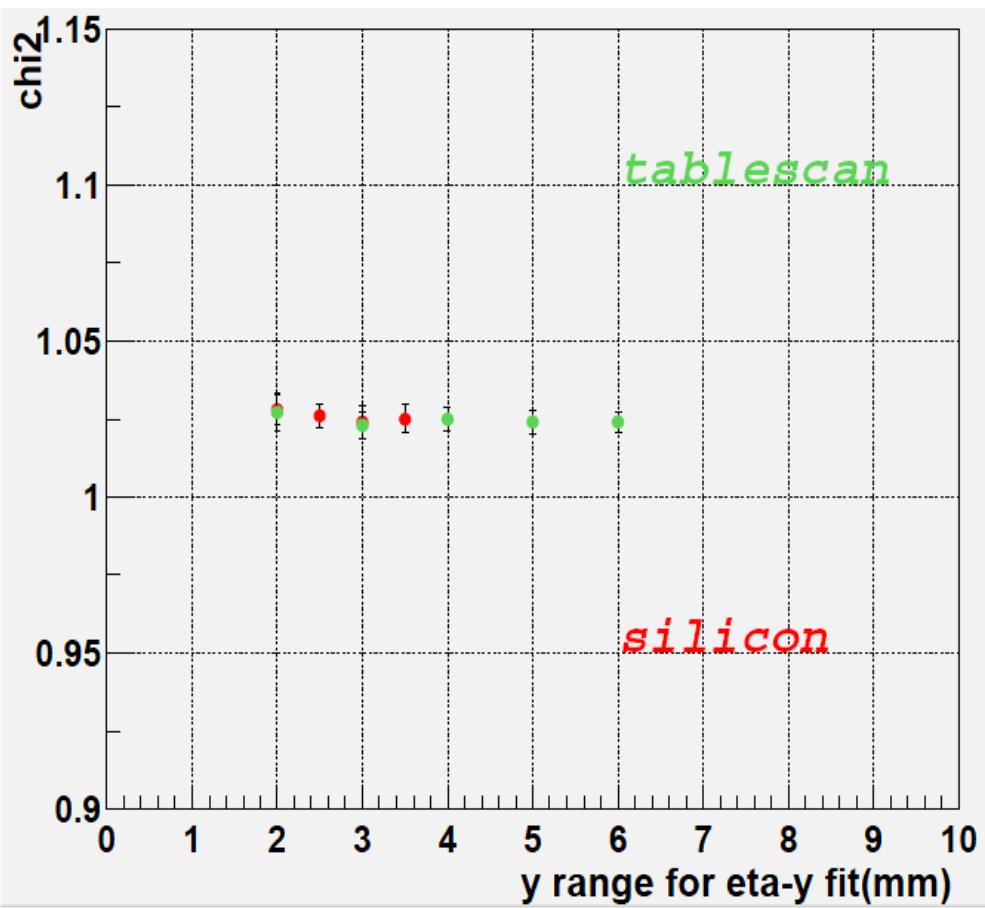
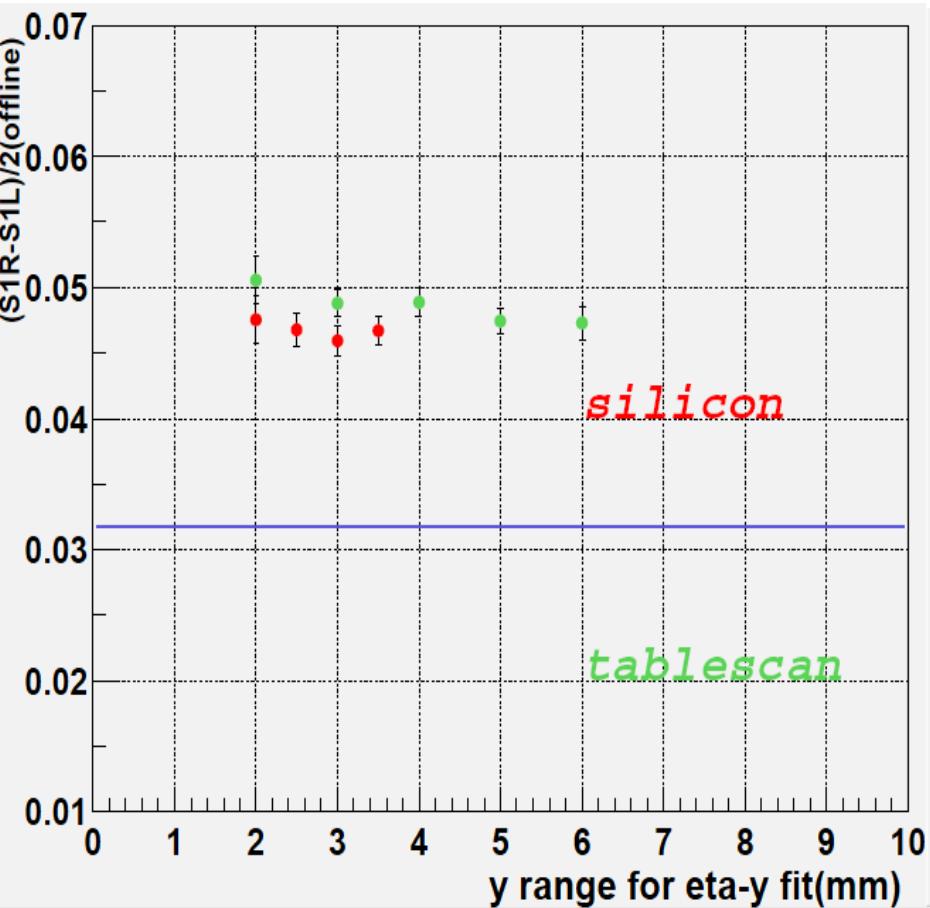
31st.Jan.2004



20th.Jan.2004

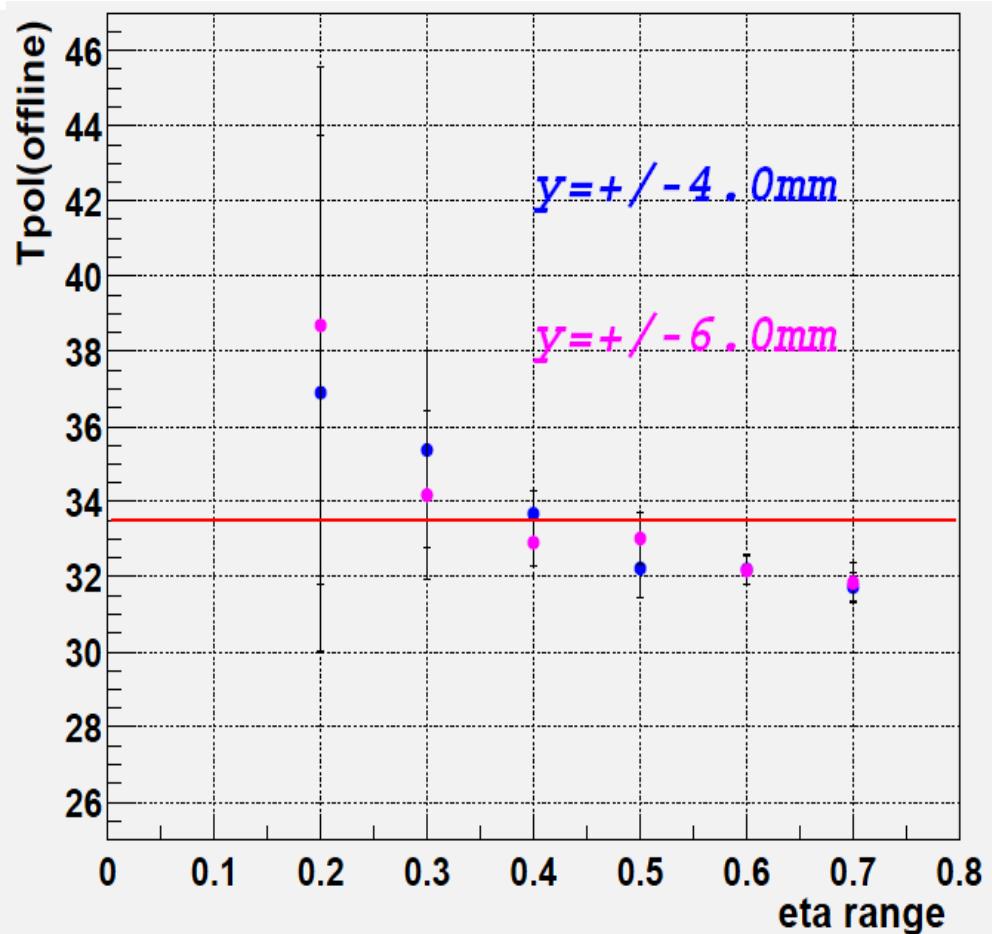
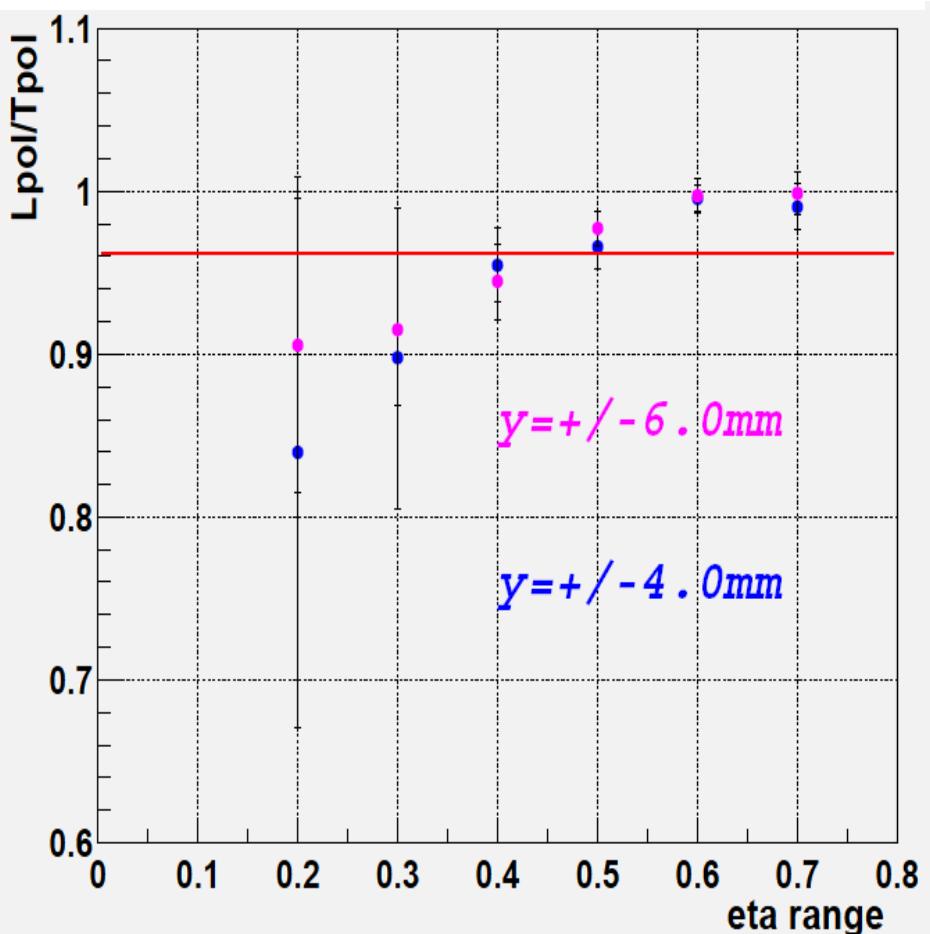


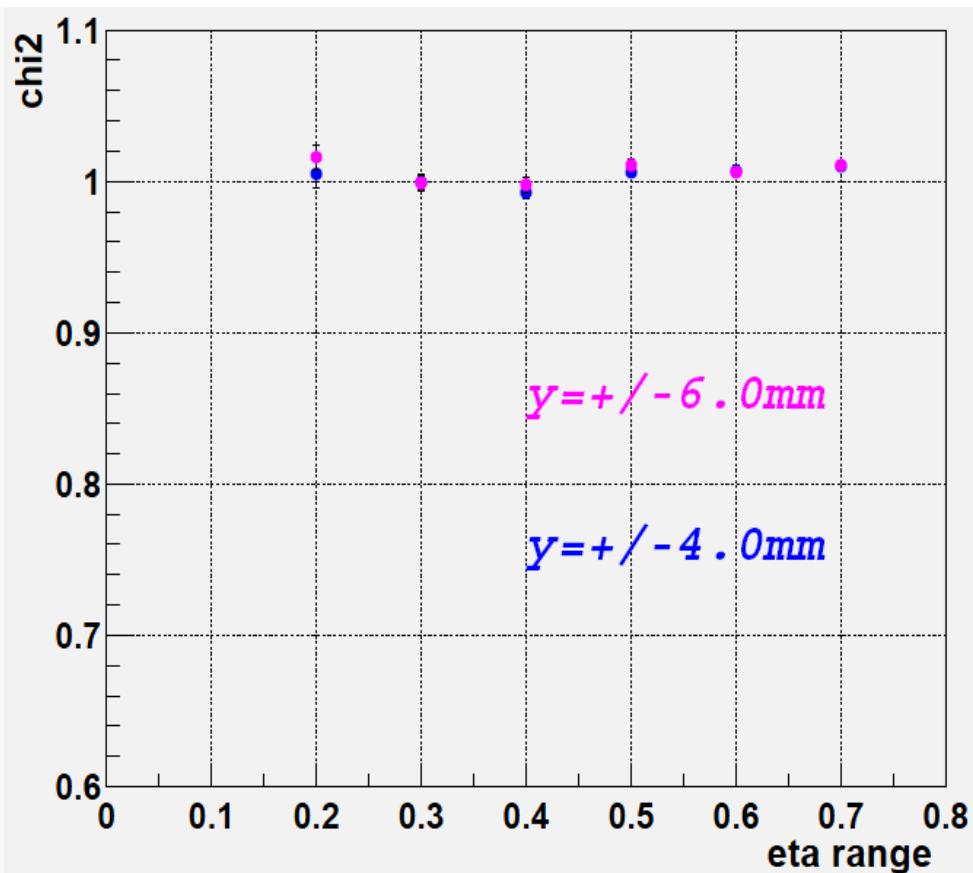
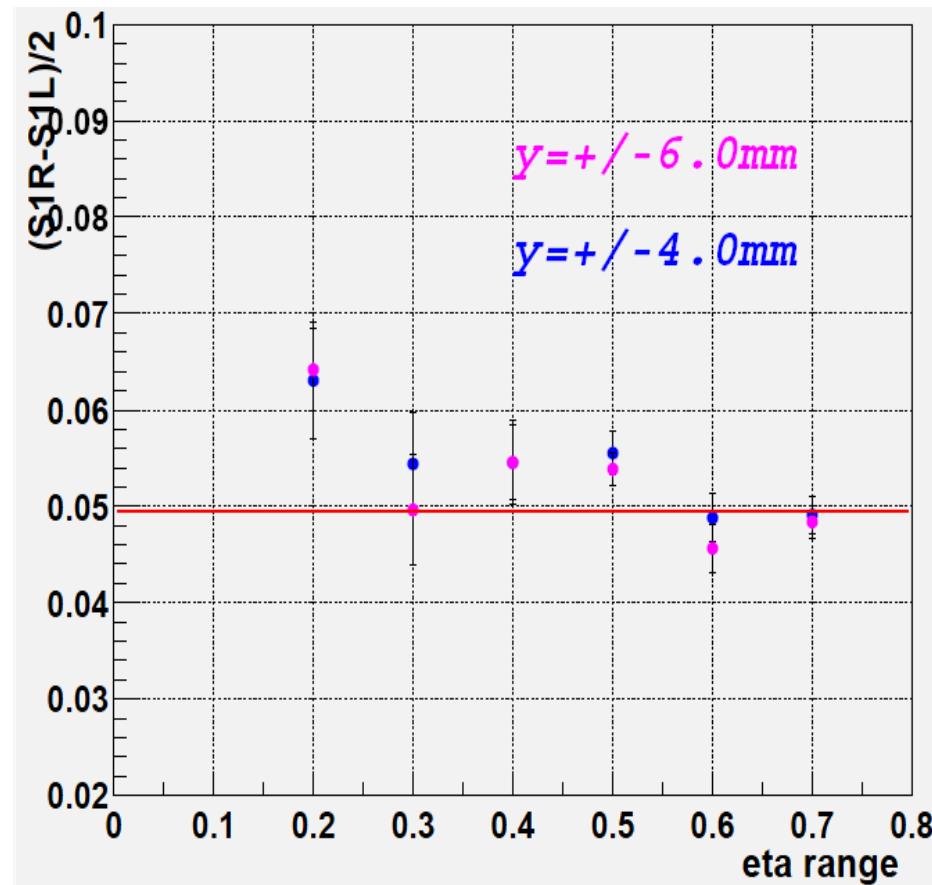
20th.Jan.2004



Study on the eta-range dependence

- Check stability of the offline method against eta.
 - y-range are fixed.
 - +/-4.0mm.
 - +/-6.0mm.
- eta-y parameters
 - tablescan.
- eta-y&beamsize&sumS1
 - fixed in offline fitting.
- CAL data sample
 - 7th.Mar.2004

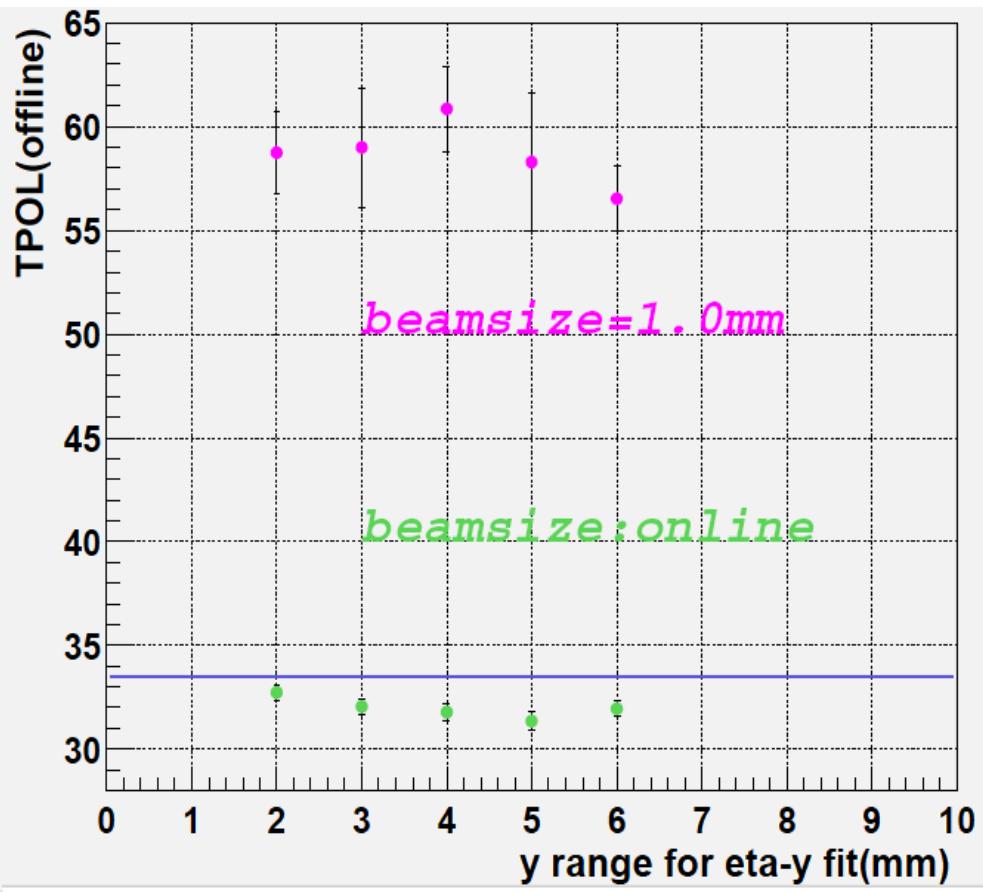
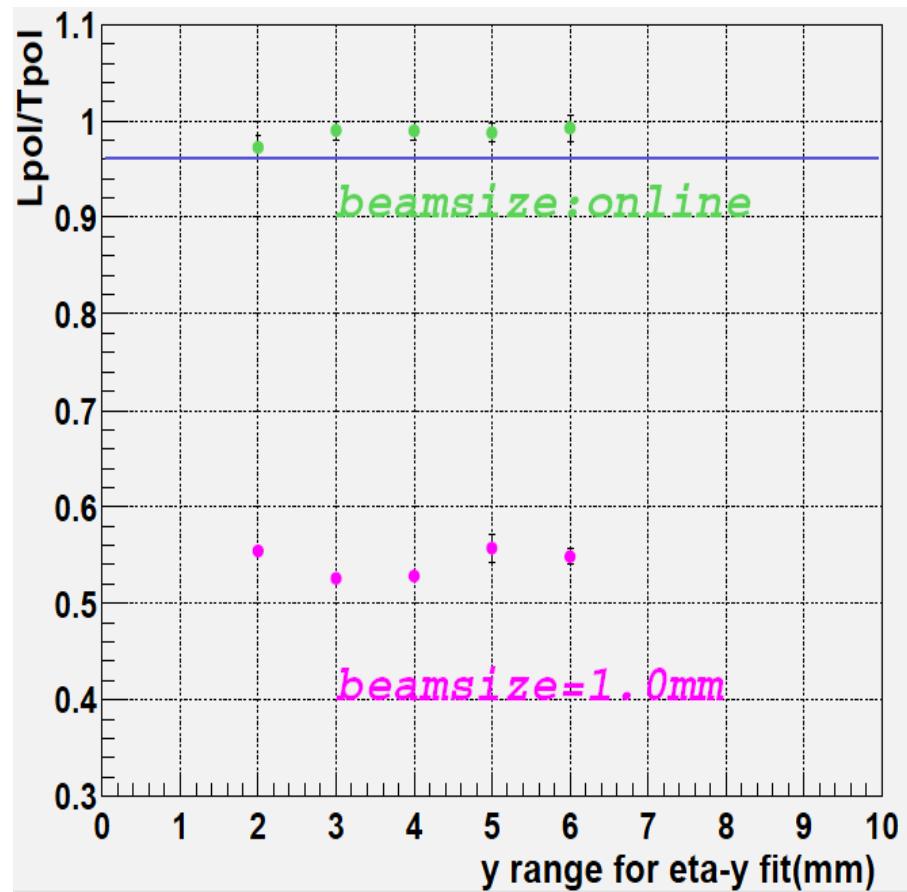




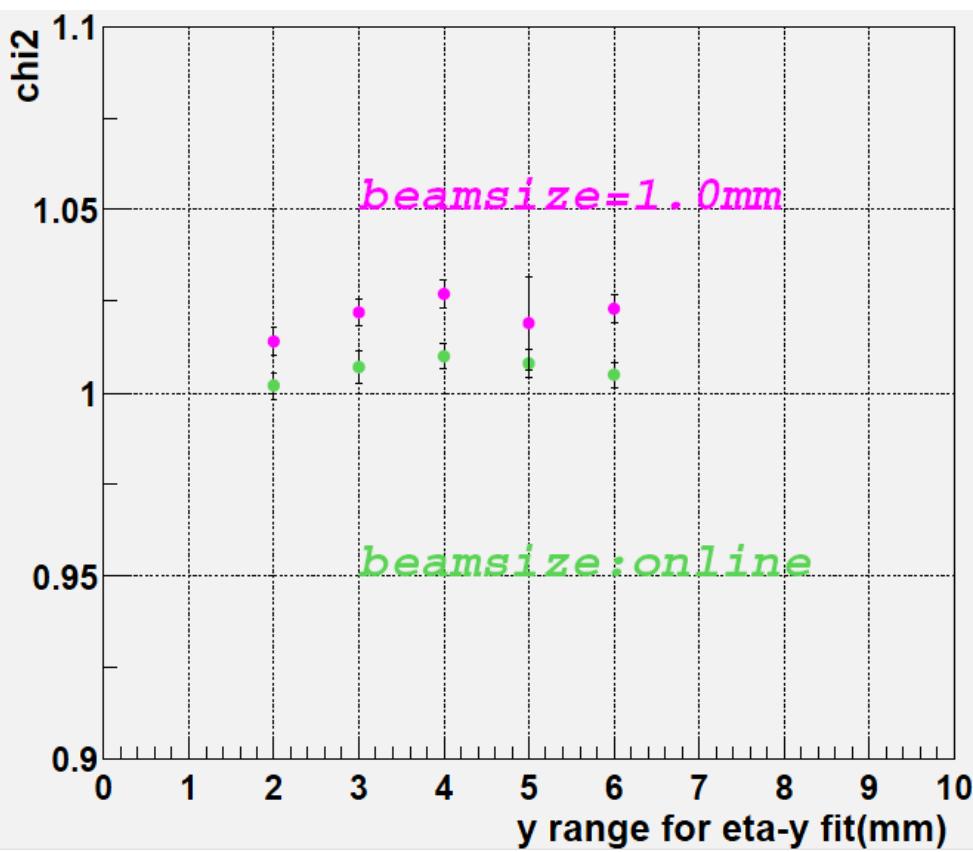
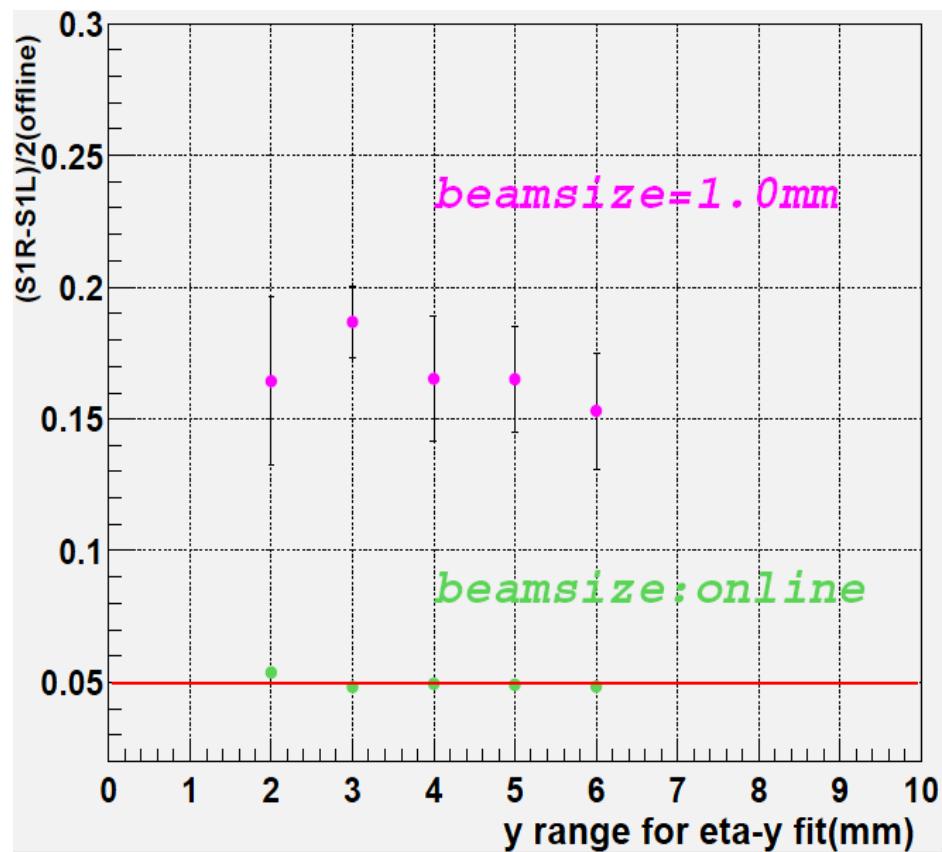
Study on the beamsize dependence

- Check how impact on offline method with different beamsize.
- eta-y parameters
 - Table scan
- CAL data sample.
 - 7th.Mar.2004.
 - 31st.Jan.2004.
- Fixed beamsize.
 - online analysis.
 - 1.0mm

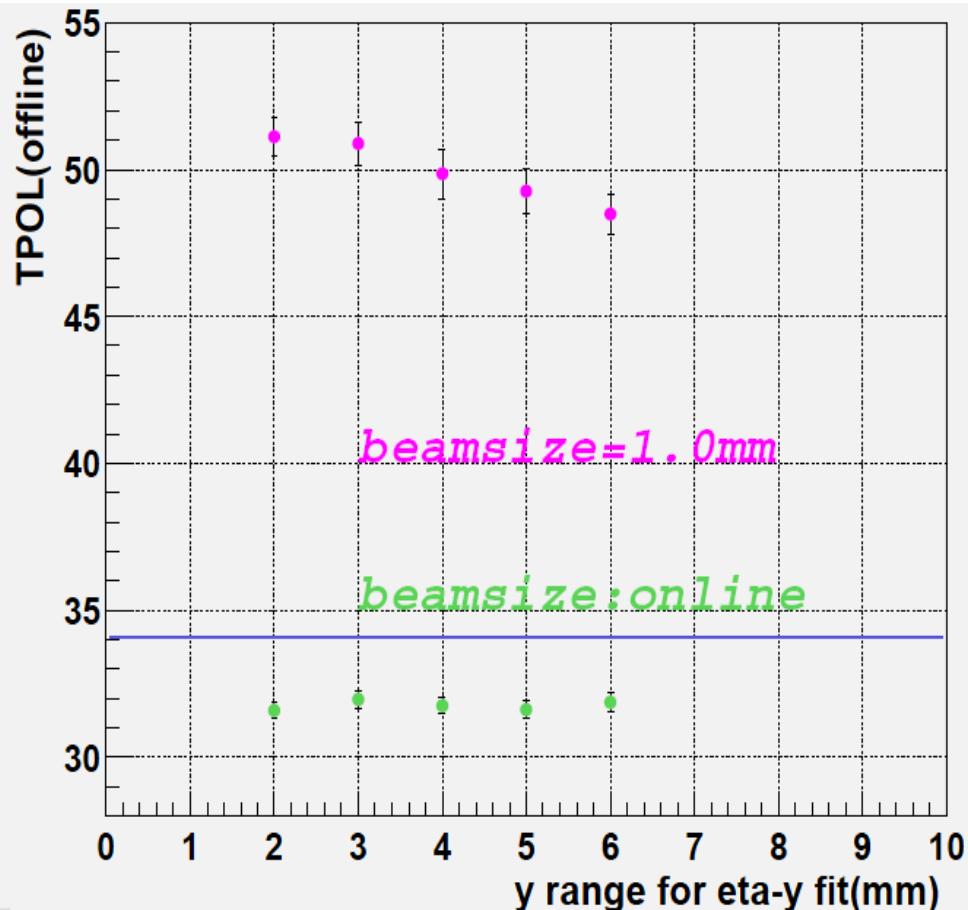
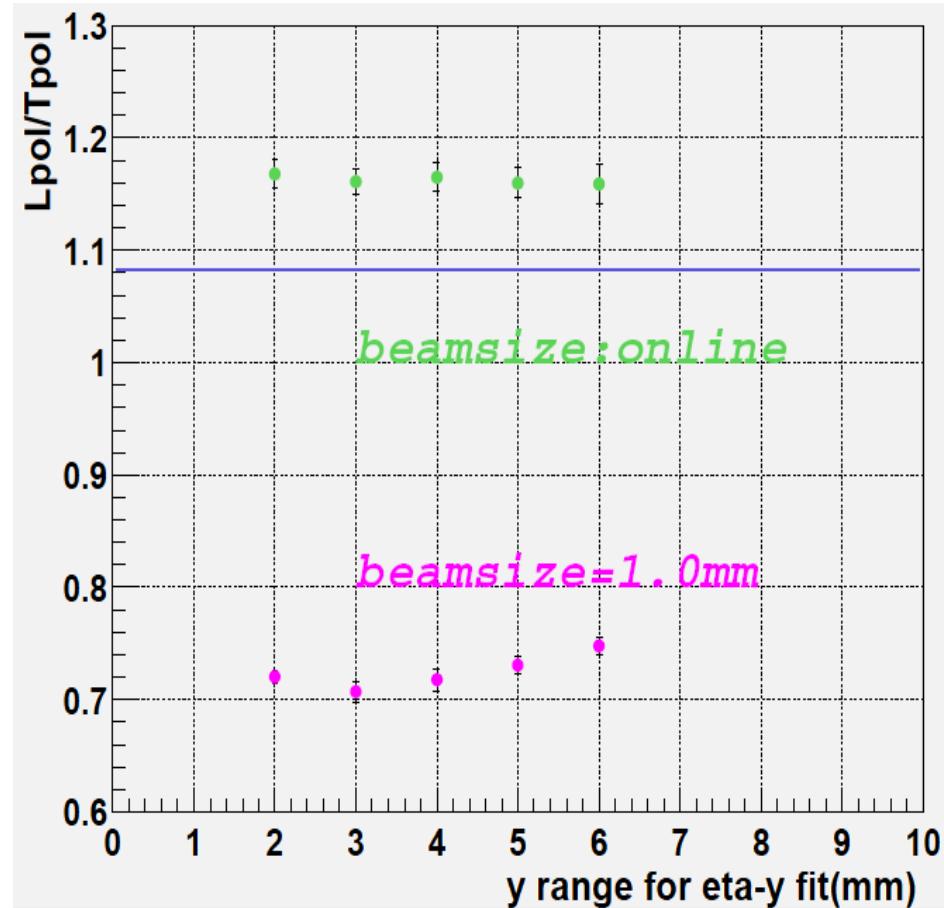
7th.Mar.2004



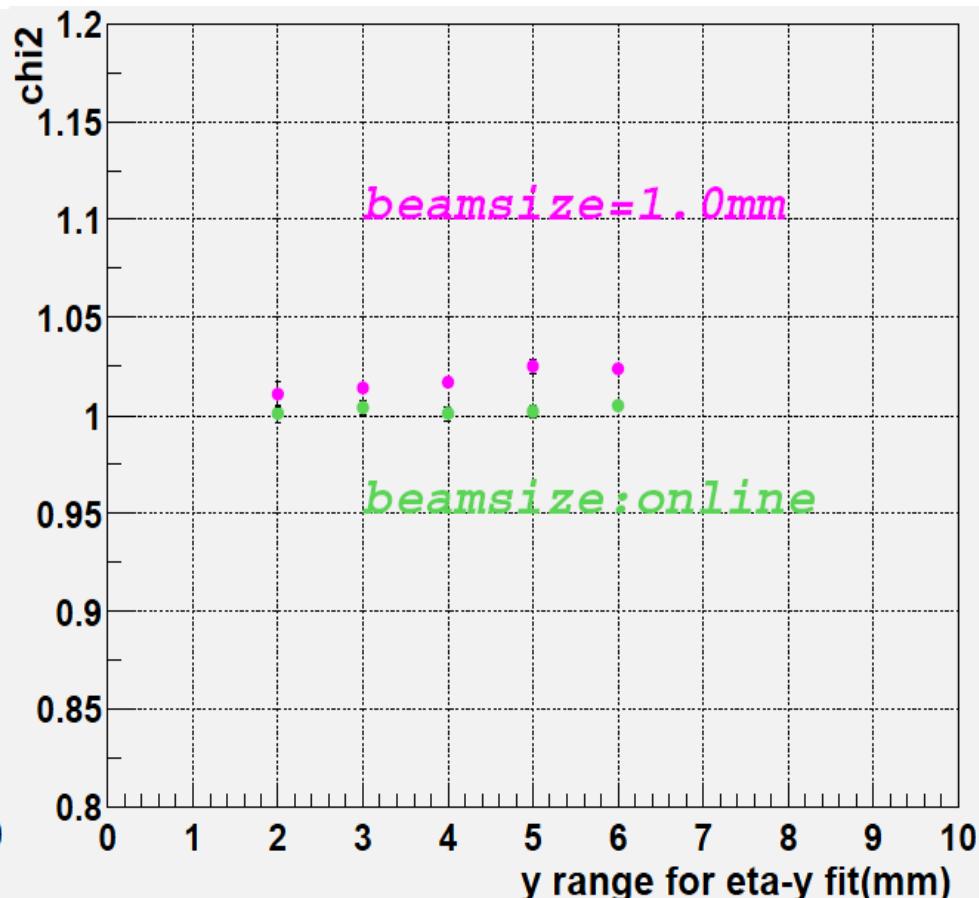
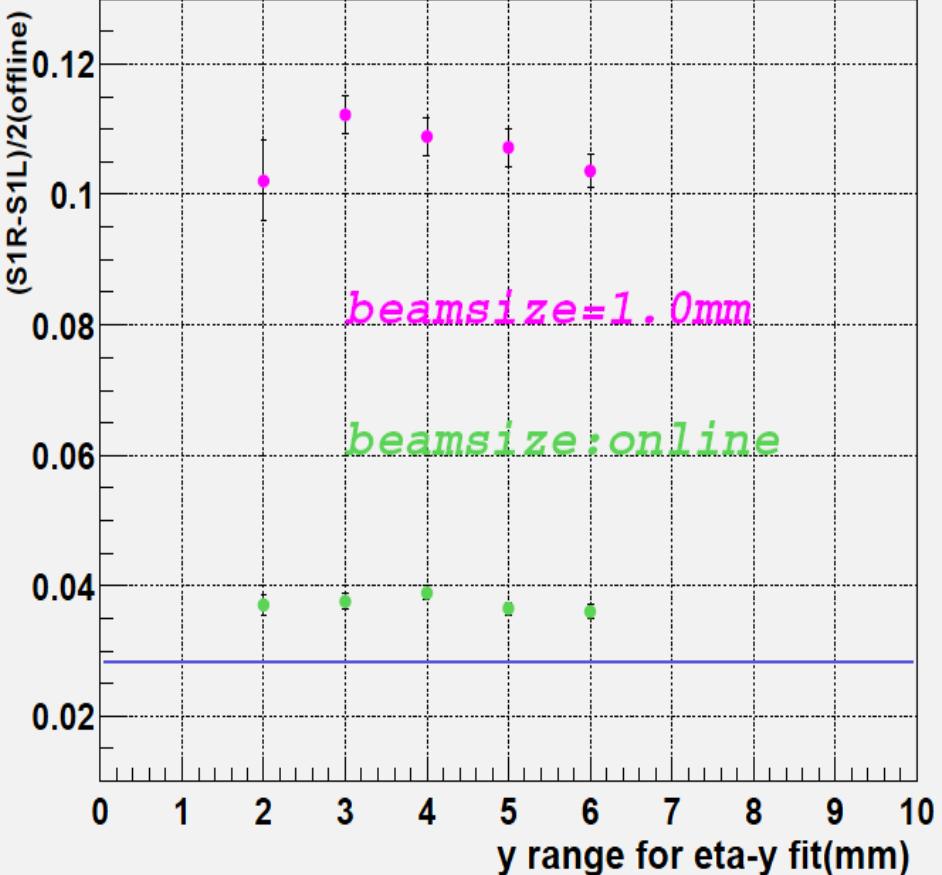
7th.Mar.2004



31st.Jan.2004



31st.Jan.2004



Summary & future

- Offline method is unstable, unless beamsize and sumS1 are fixed.
- With these parameters are fixed, no y-range and no eta-range dependence.
- Offline method depends on beamsize strongly .
- Need to estimate the value beamsize and sumS1.