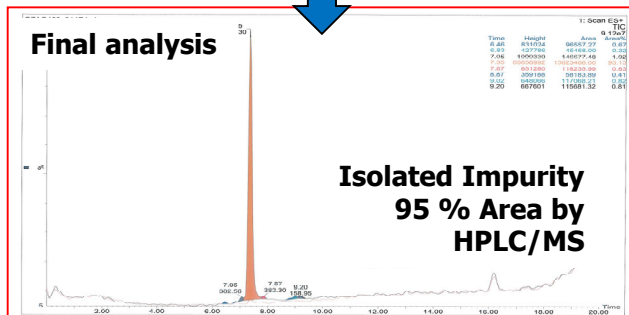
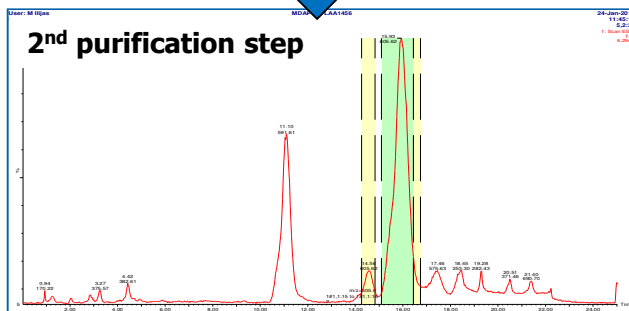
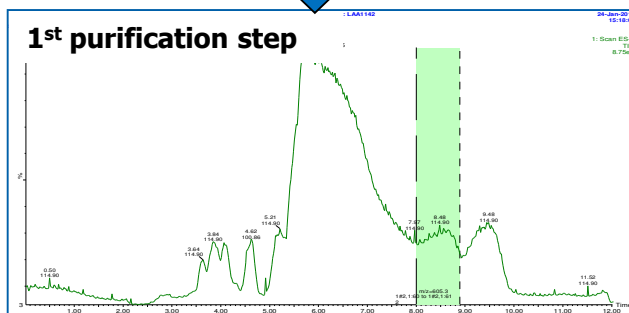
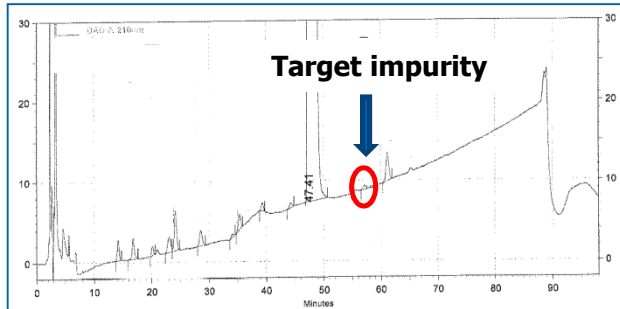


Isolation of Low Level Impurity

Objective:

- Isolation of impurity present in low level (0.1% area by HPLC-UV)



- Starting material contained only 0.1% of target impurity
- The original method obtained from our customer was not applicable for a mass directed purification and MS detection
- Modification of original method by means of appropriate mobile phase with volatile modifiers
- Purification process was divided into two steps
- Obtained enriched material contained about 65% of target impurity
- For re-purification step focused gradient method was developed
- The final purity of isolated impurity was 95% Area by LC-MS
- The structure of isolated impurity was determined by NMR, HRMS and H/D exchange experiments
- Delivered amount of isolated target impurity was 100 mg

