

## Supplementary Materials:

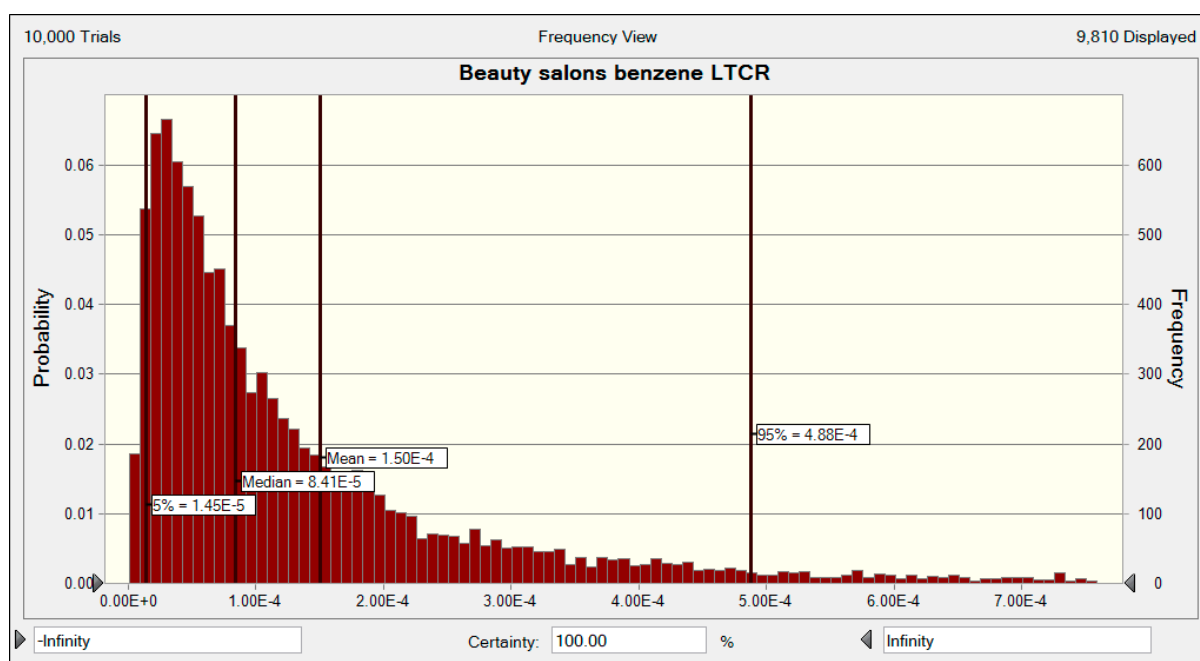
Ahmad Derikvand <sup>1,†</sup>, Ali Taherkhani <sup>1,†</sup>, Mohammad Sadegh Hassanvand <sup>1,2</sup>, Kazem Naddafi <sup>1,2</sup>, Ramin Nabizadeh <sup>1,2</sup>, Mansour Shamsipour <sup>2,3</sup>, Sadegh Niazi <sup>4</sup>, Mohsen Heidari <sup>5</sup>, Adel Mokammel <sup>1,\*</sup> and Sasan Faridi <sup>1,2,\*</sup>

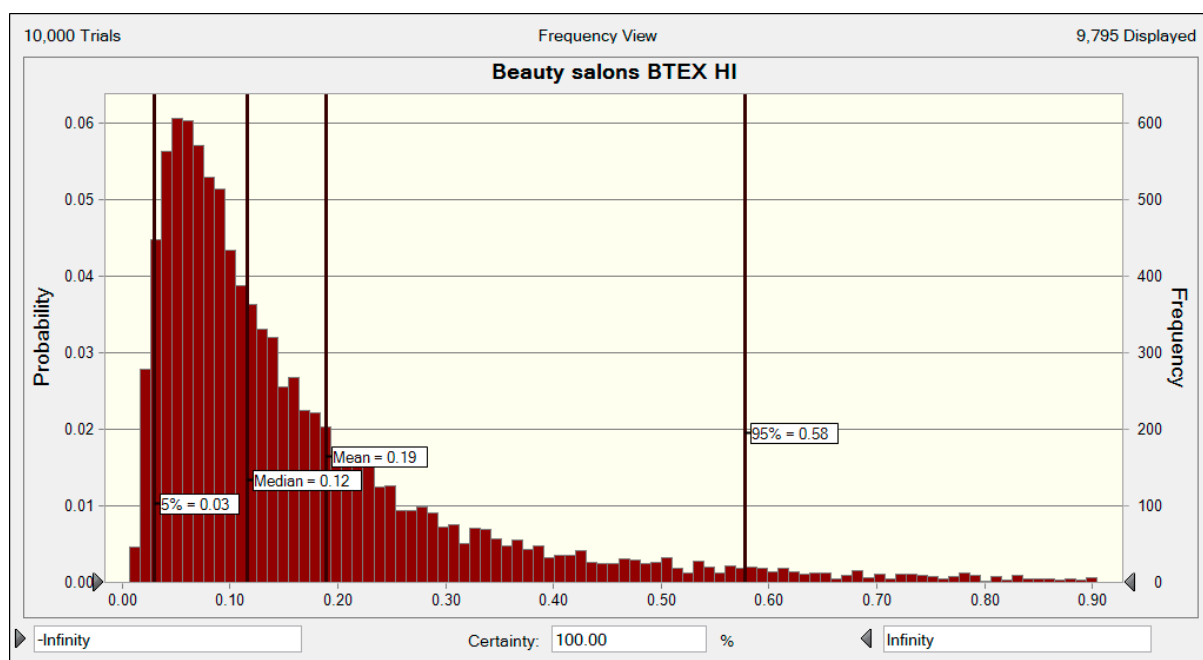
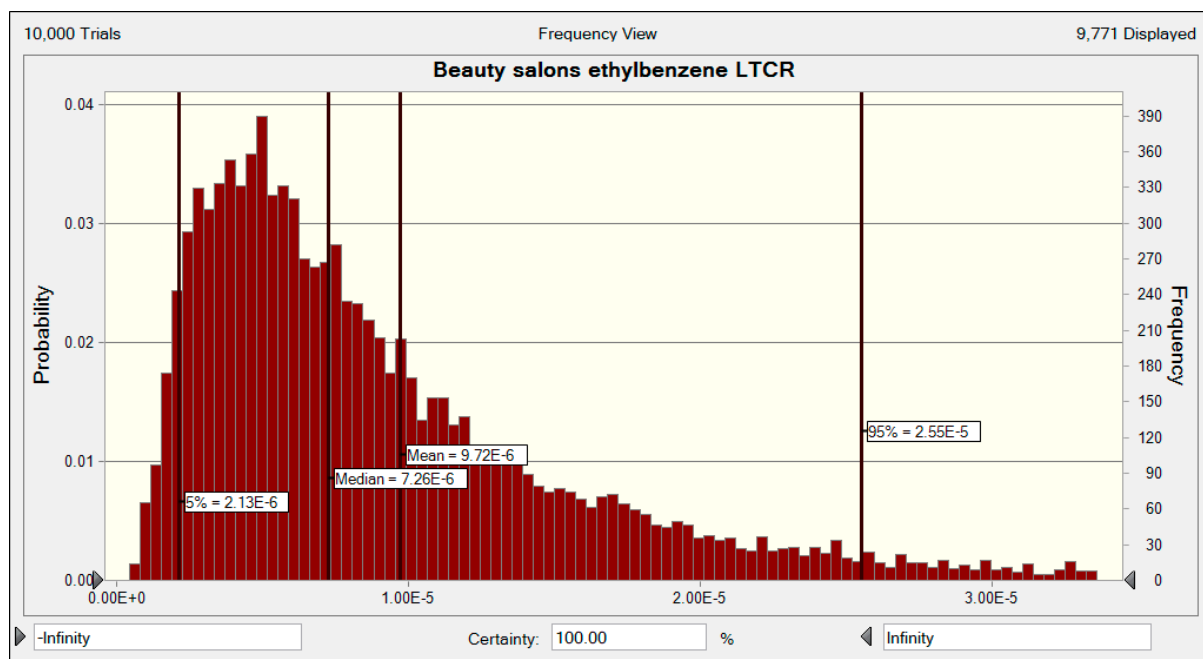
Limit of Detection (LOD) and limit of quantification (LOQ) were calculated using laboratory blanks. Greater than three times signal to noise ratio ( $S/N = 3$ ) was determined in blanks chromatogram for each compound.

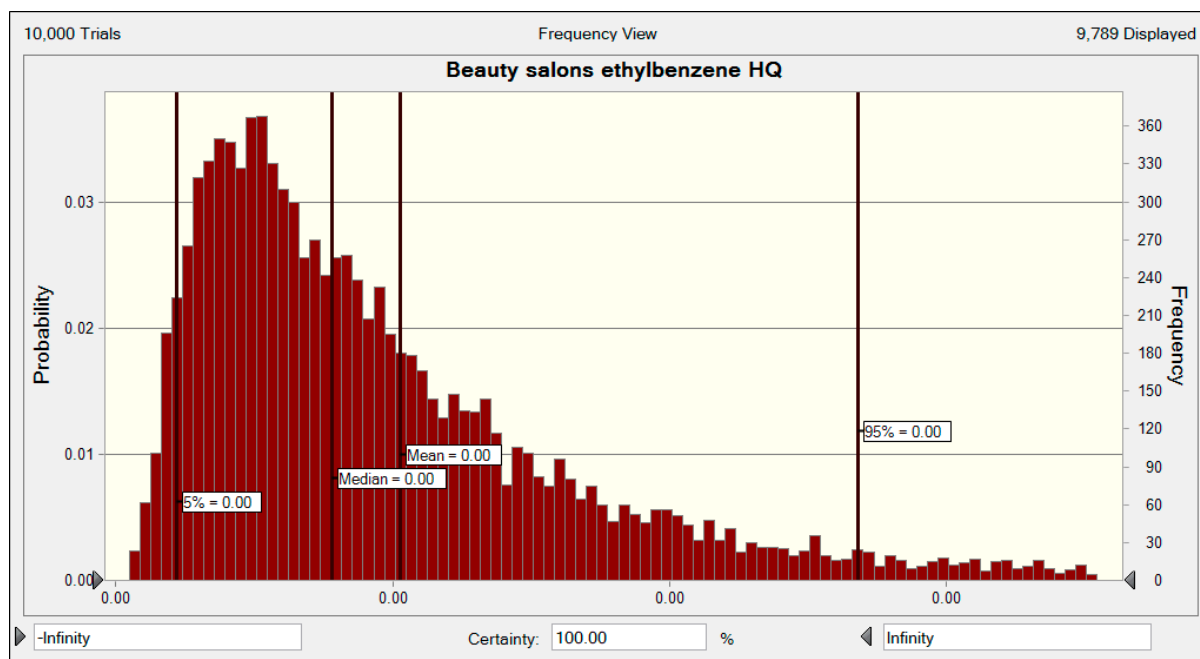
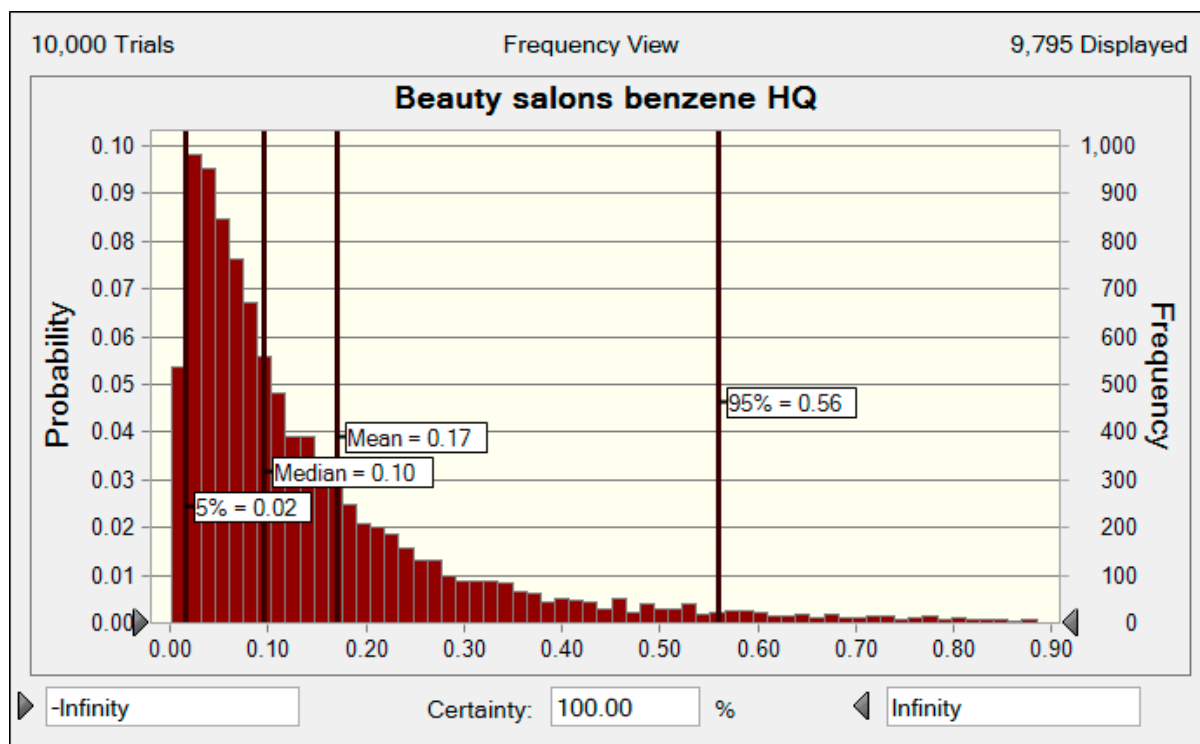
**Table S1.** LOD, LOQ and recovery efficiency values.

Chemical compound	Recovery efficiency (%)	LOD ( $\mu\text{g/L}$ )	LOQ ( $\mu\text{g/L}$ )
Benzene	95	5	15
Toluene	95	7	21
Ethylbenzene	97	5	15
Xylenes	96	3	9

This document includes probability distributions of BTEX compounds' cancer and non-cancer risk in the public environments.







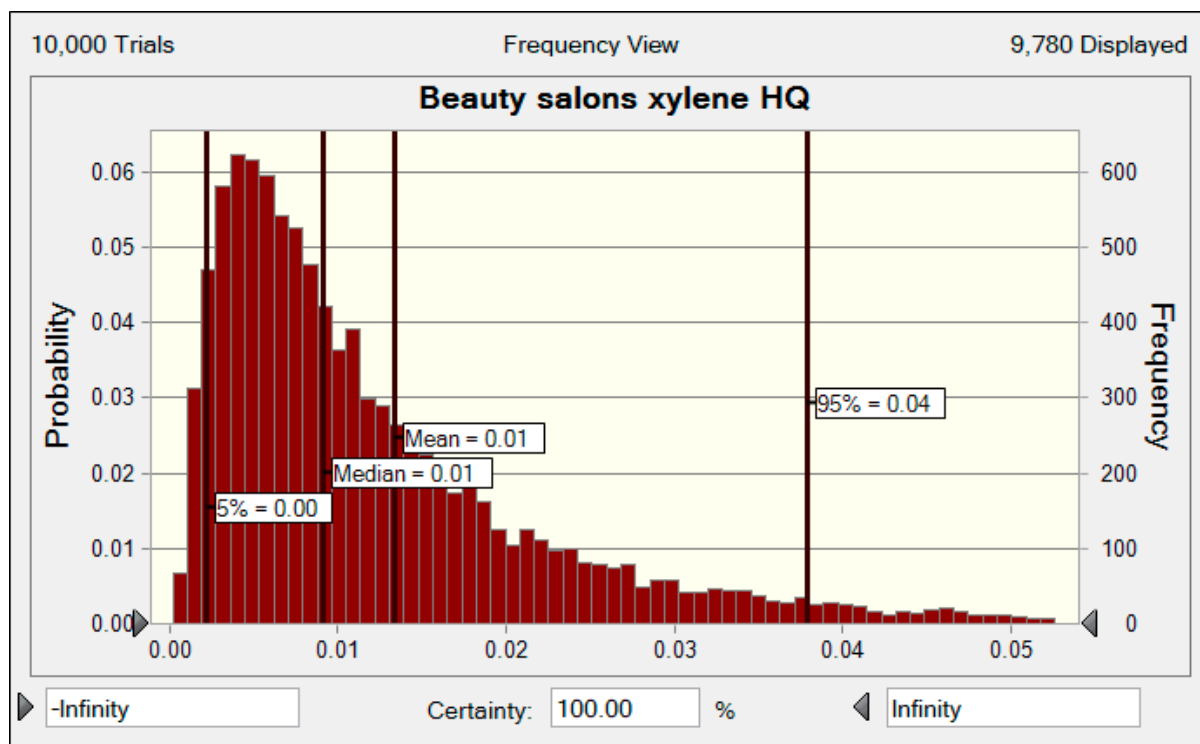
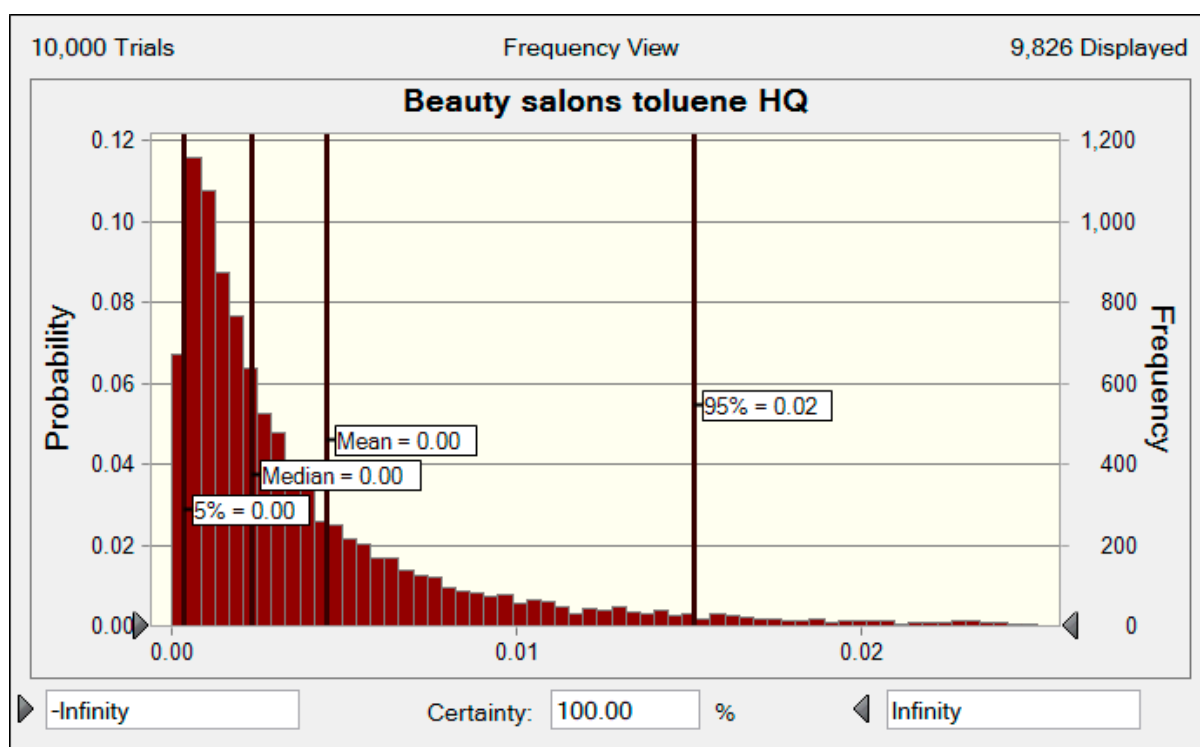
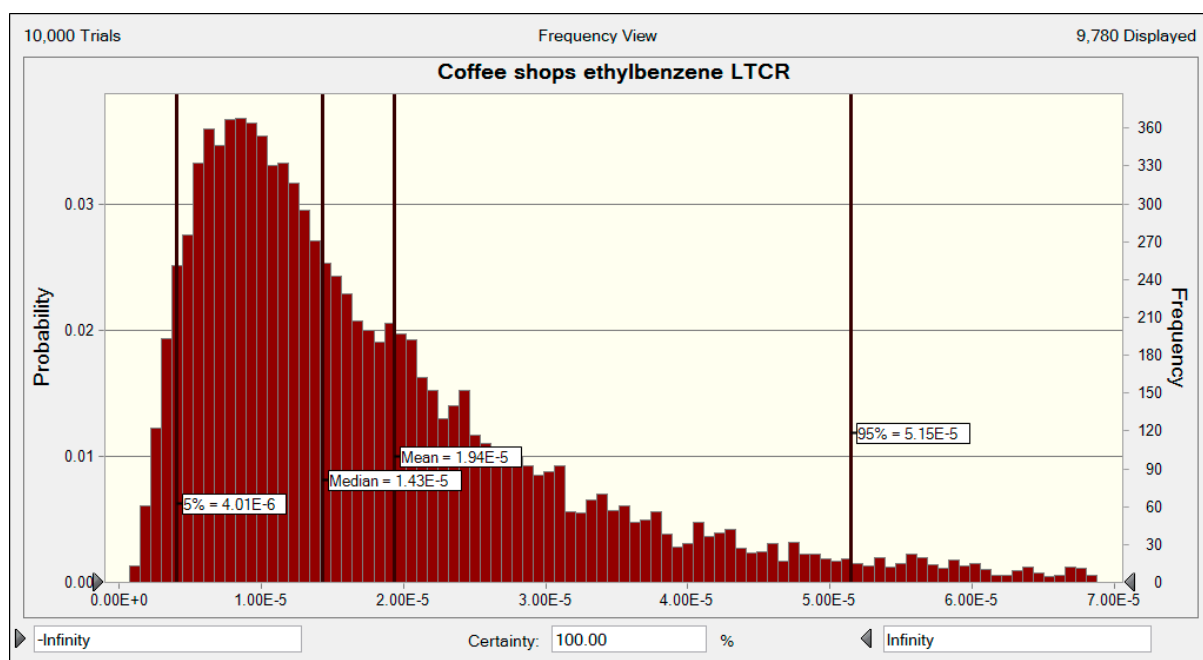
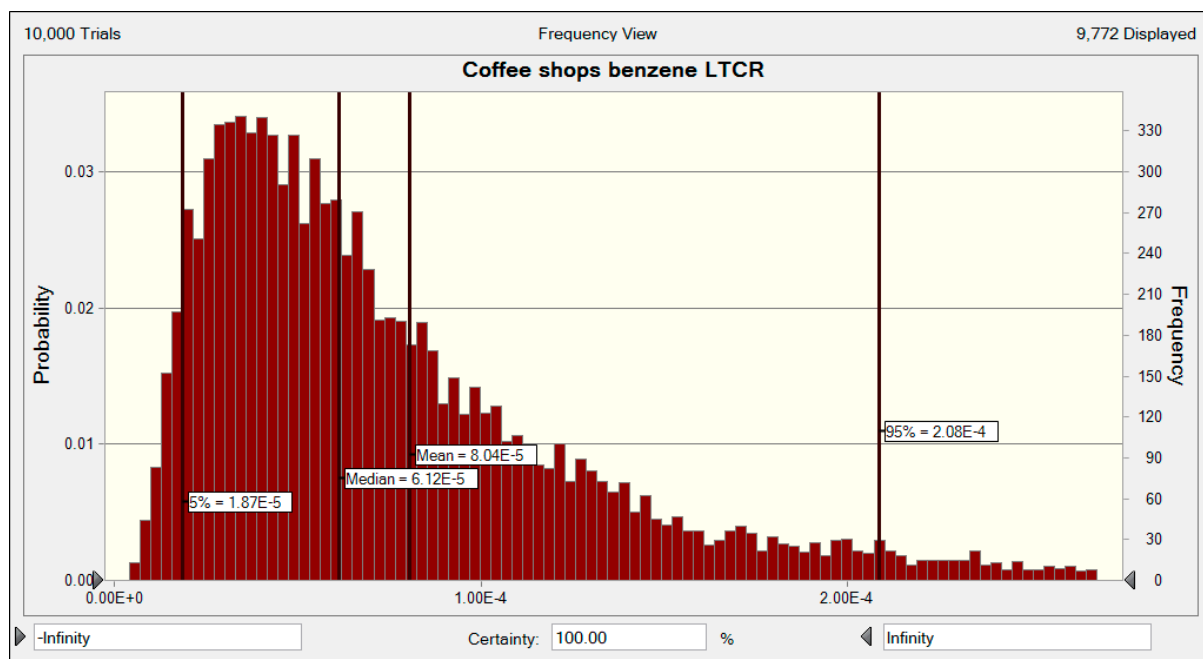
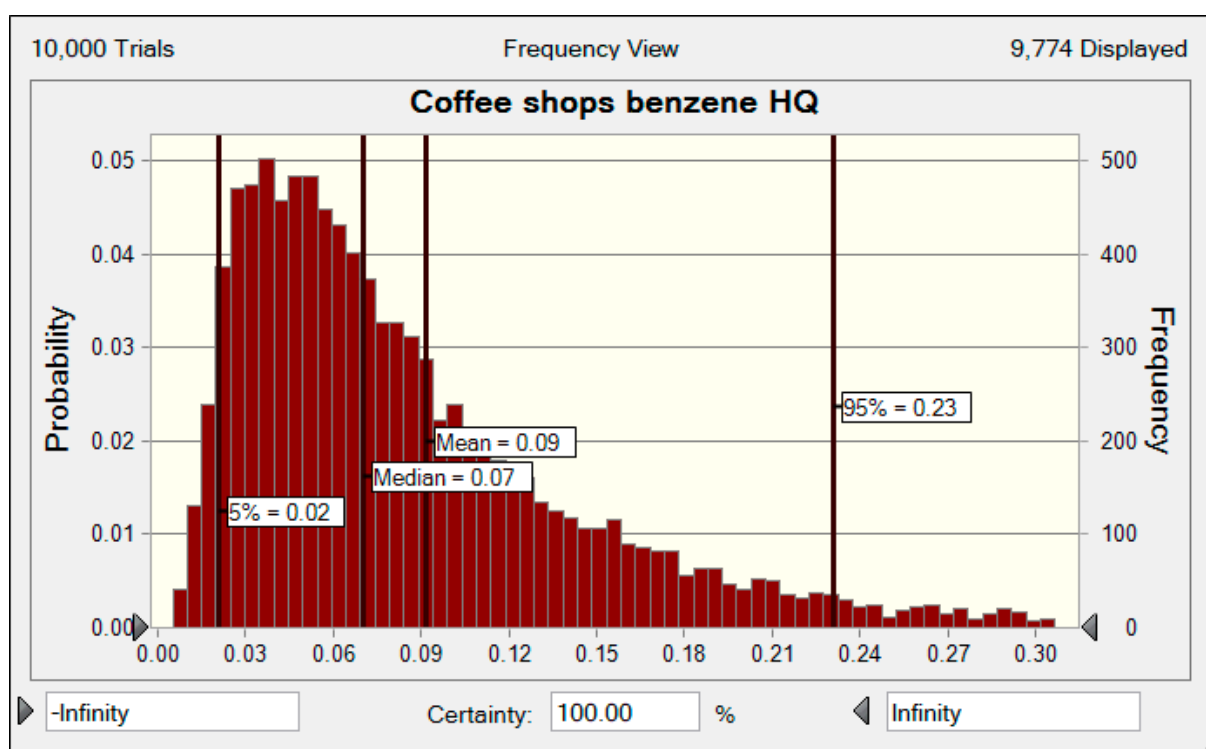
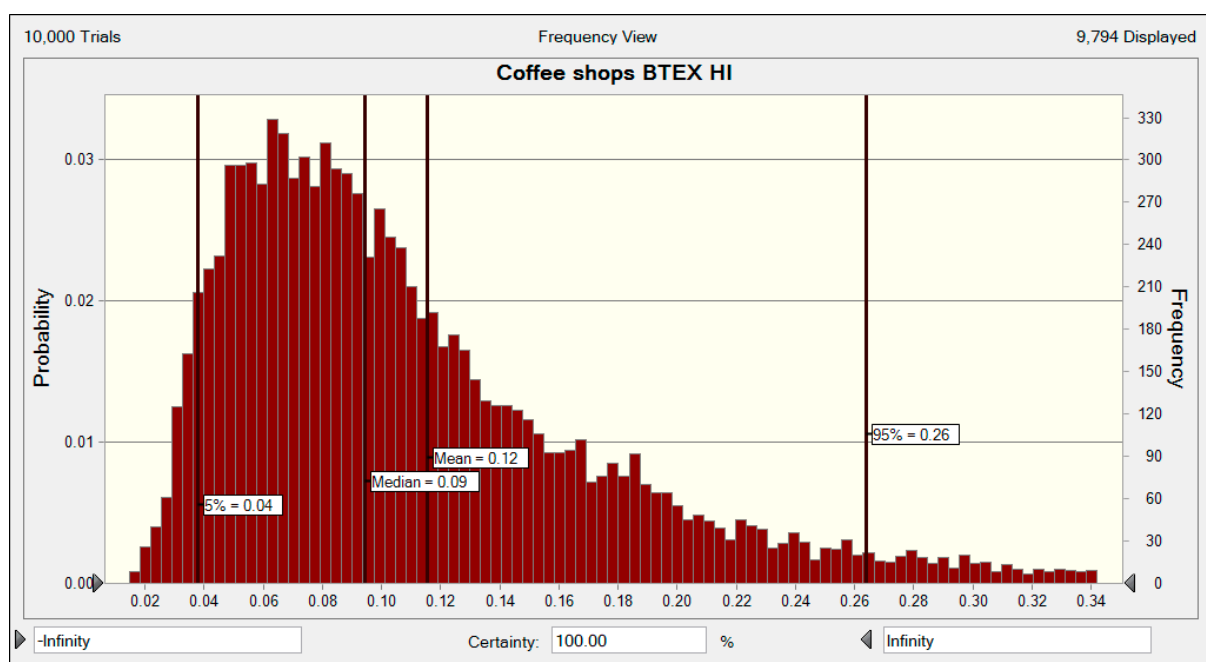
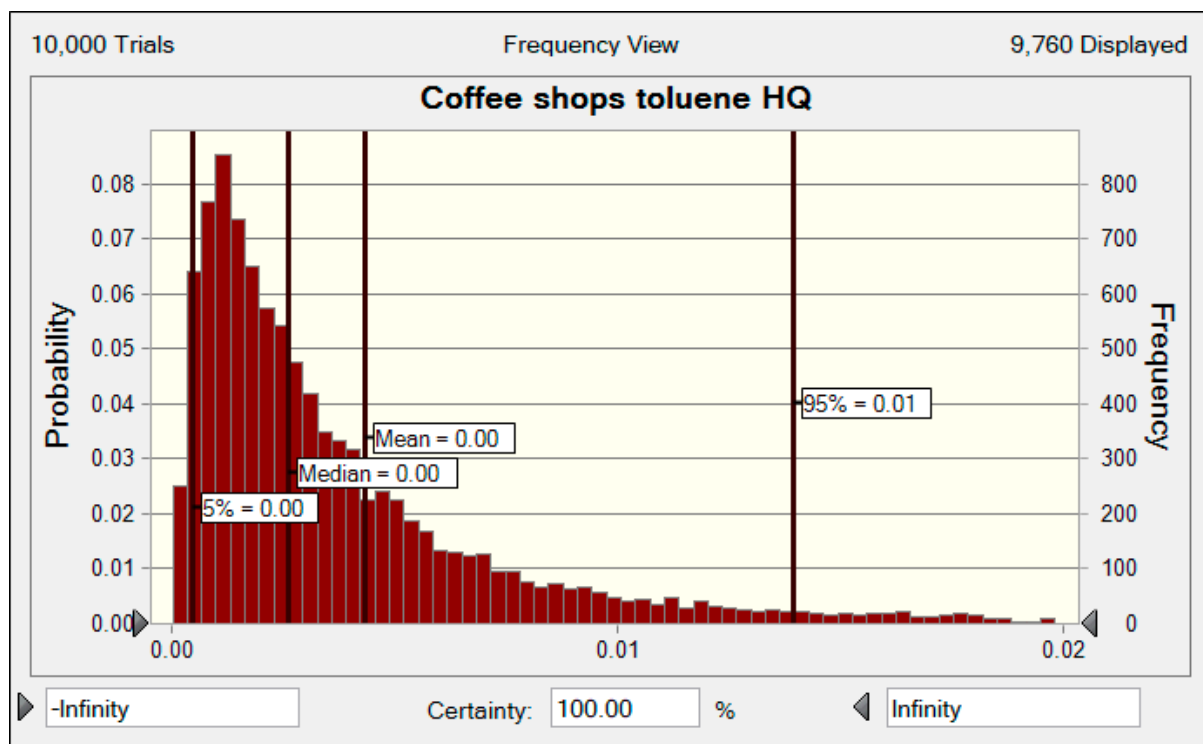
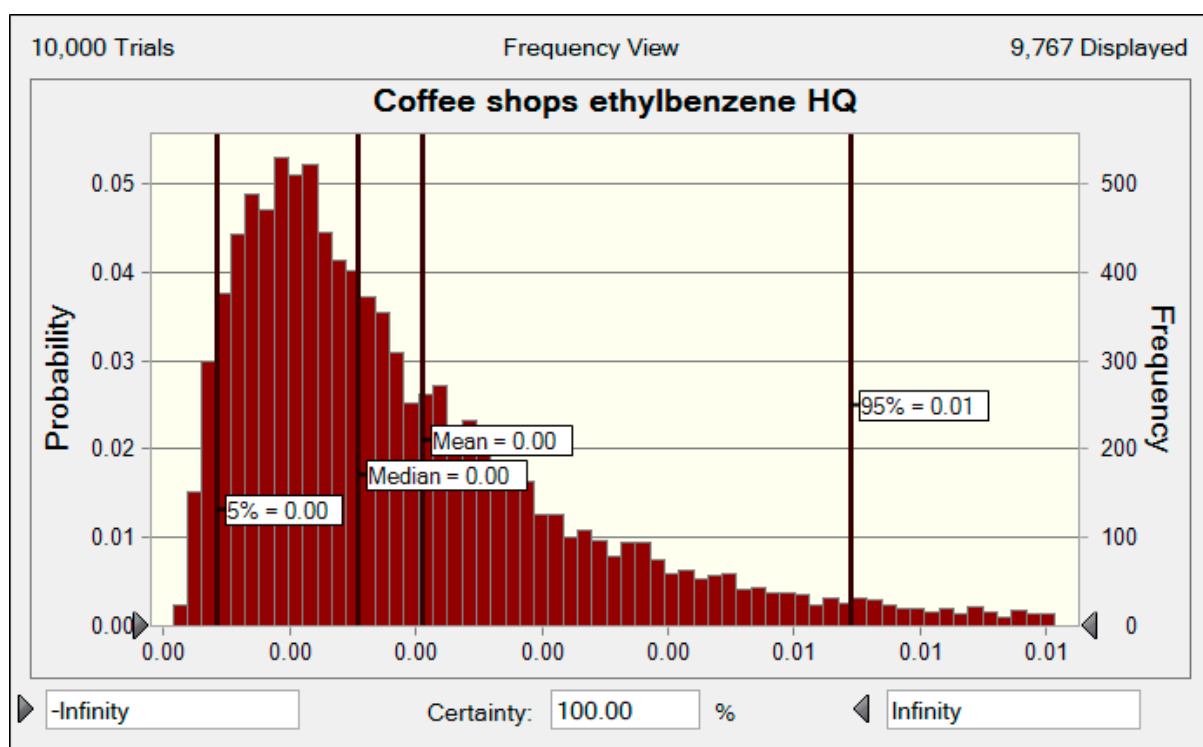


Figure S1. Probability distributions of BTEX cancer and non-cancer risk in beauty salons.







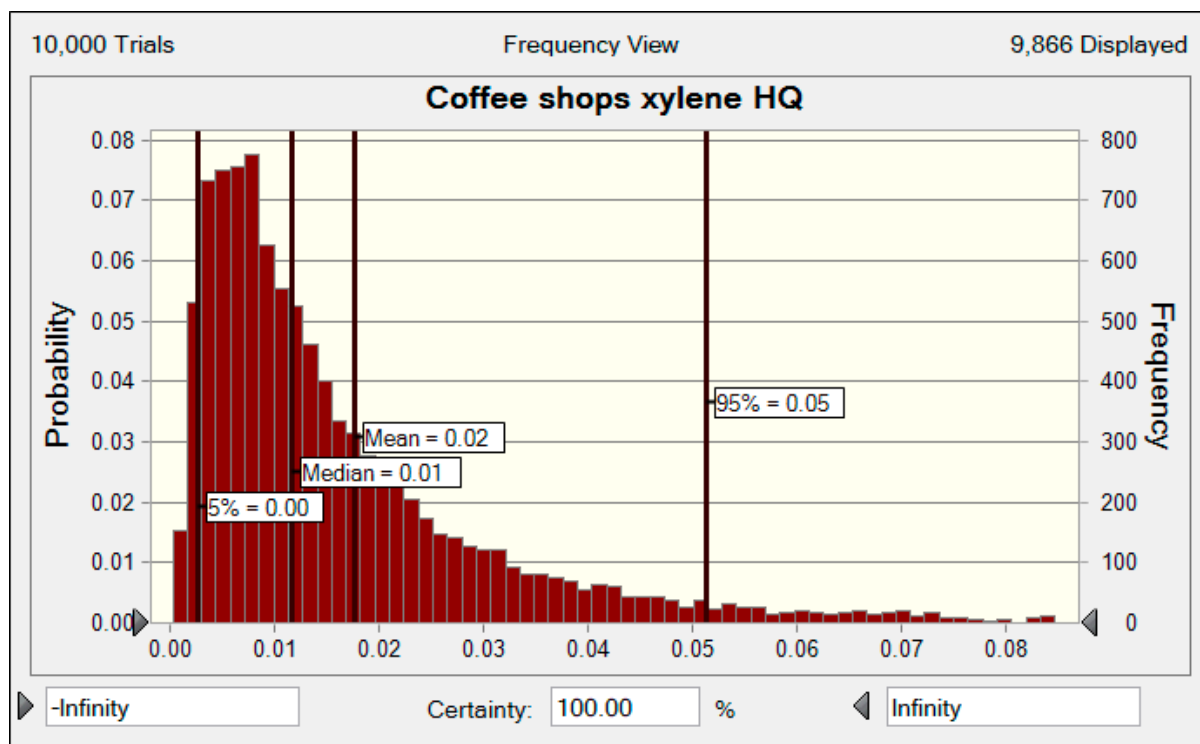
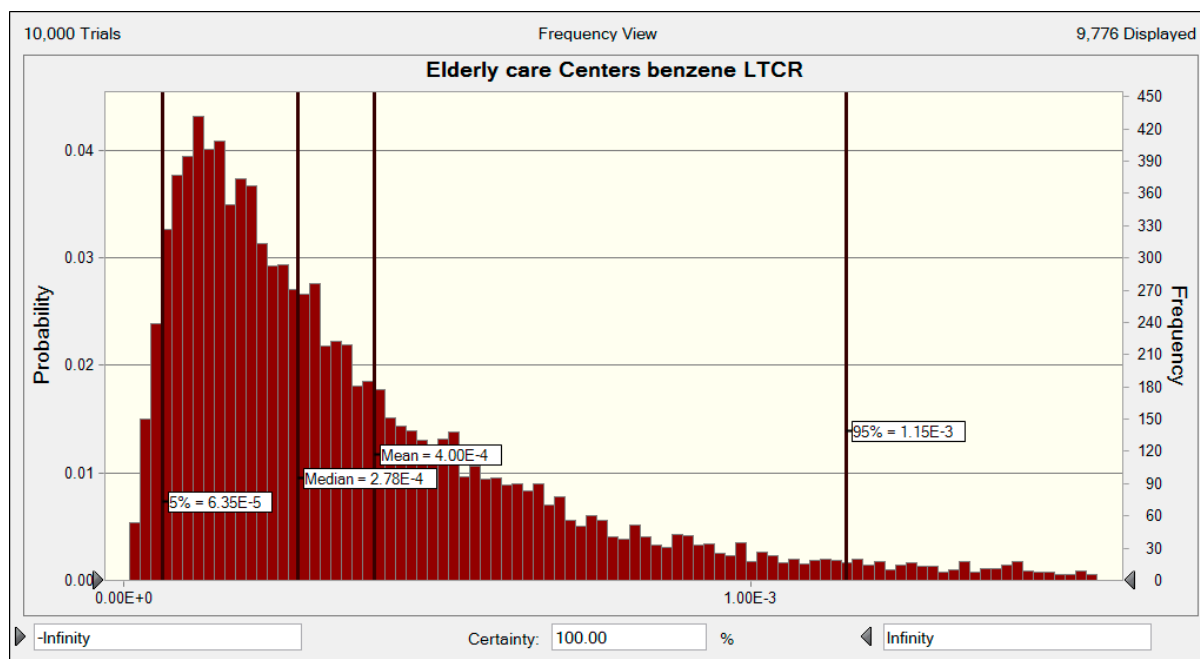
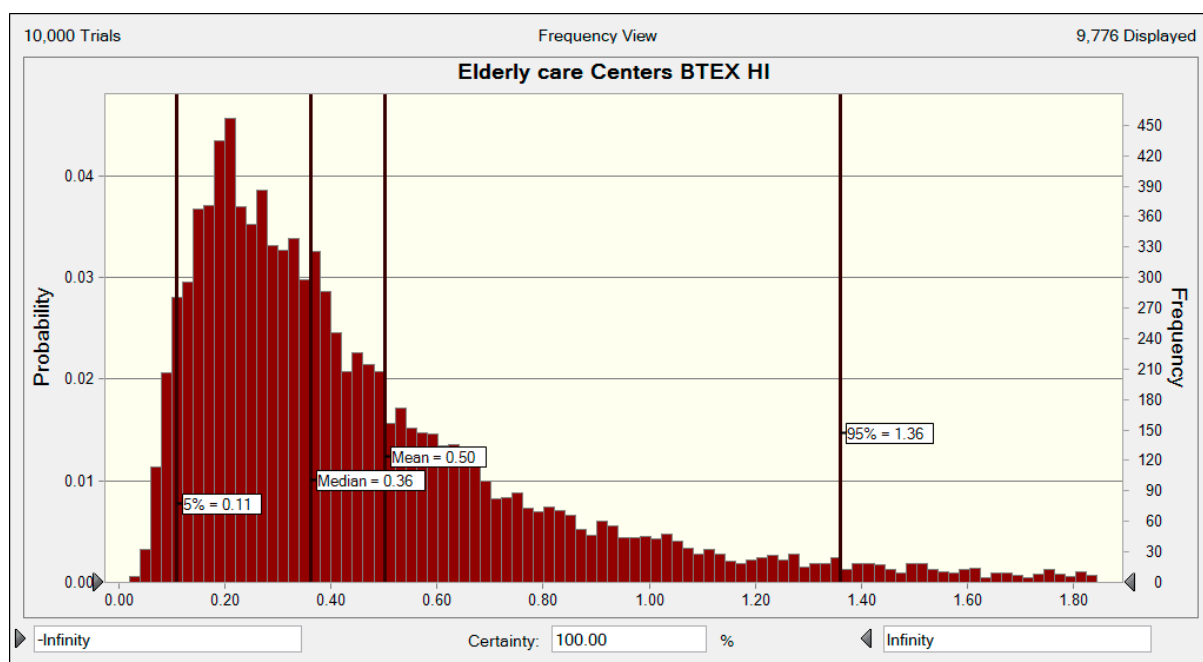
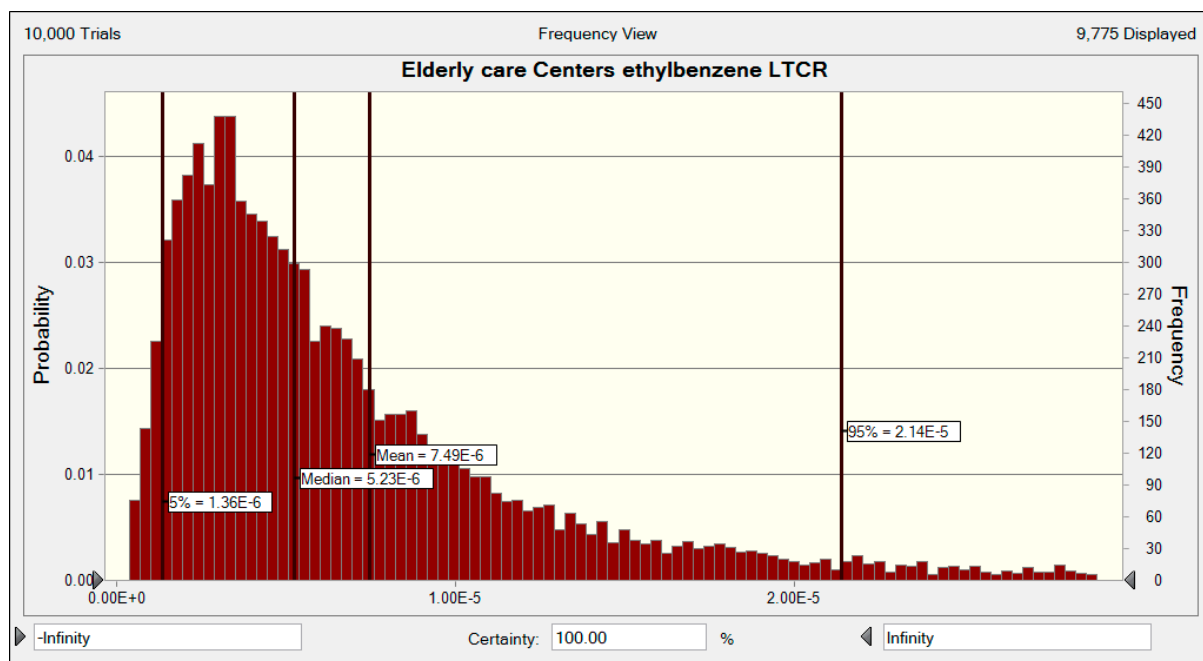
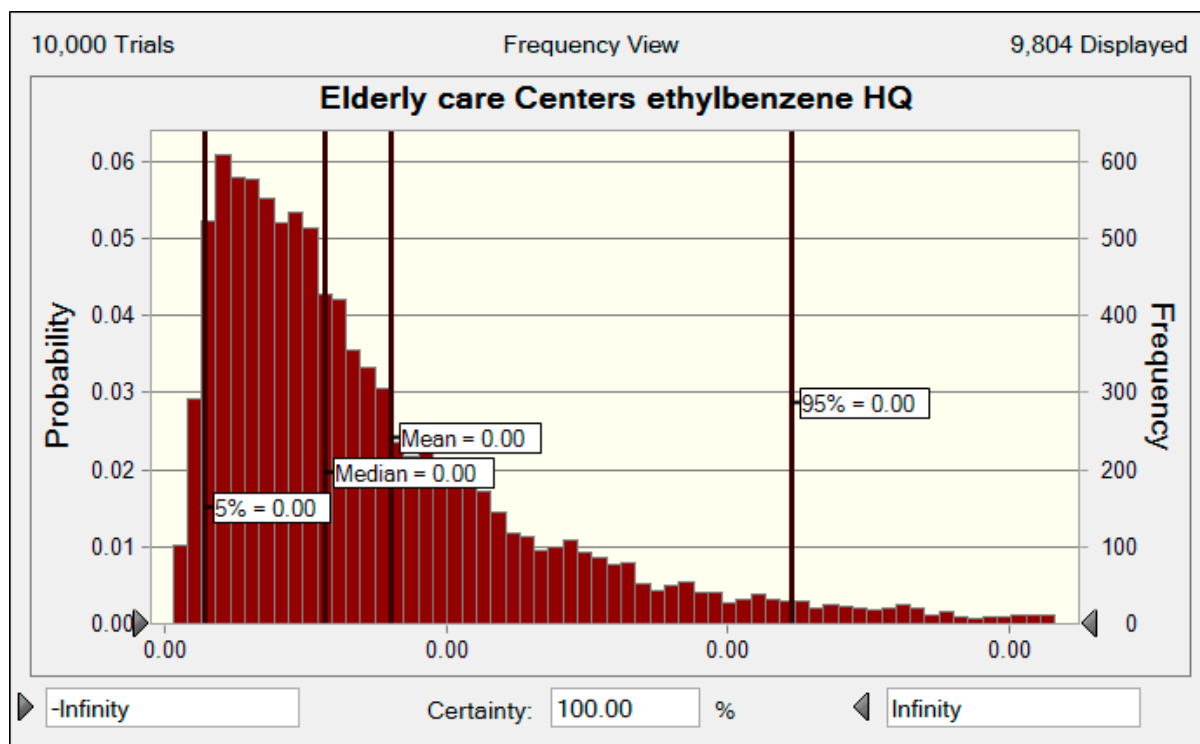
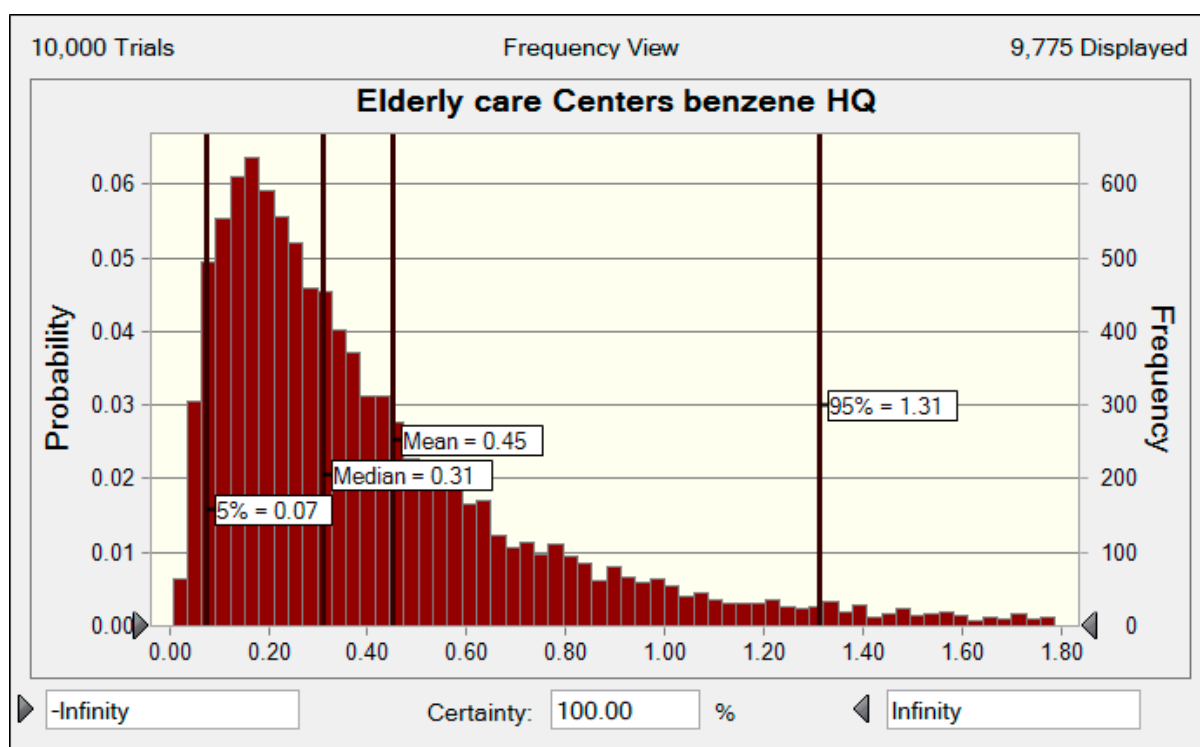


Figure S2. Probability distributions of BTEX cancer and non-cancer risk in coffe shops.









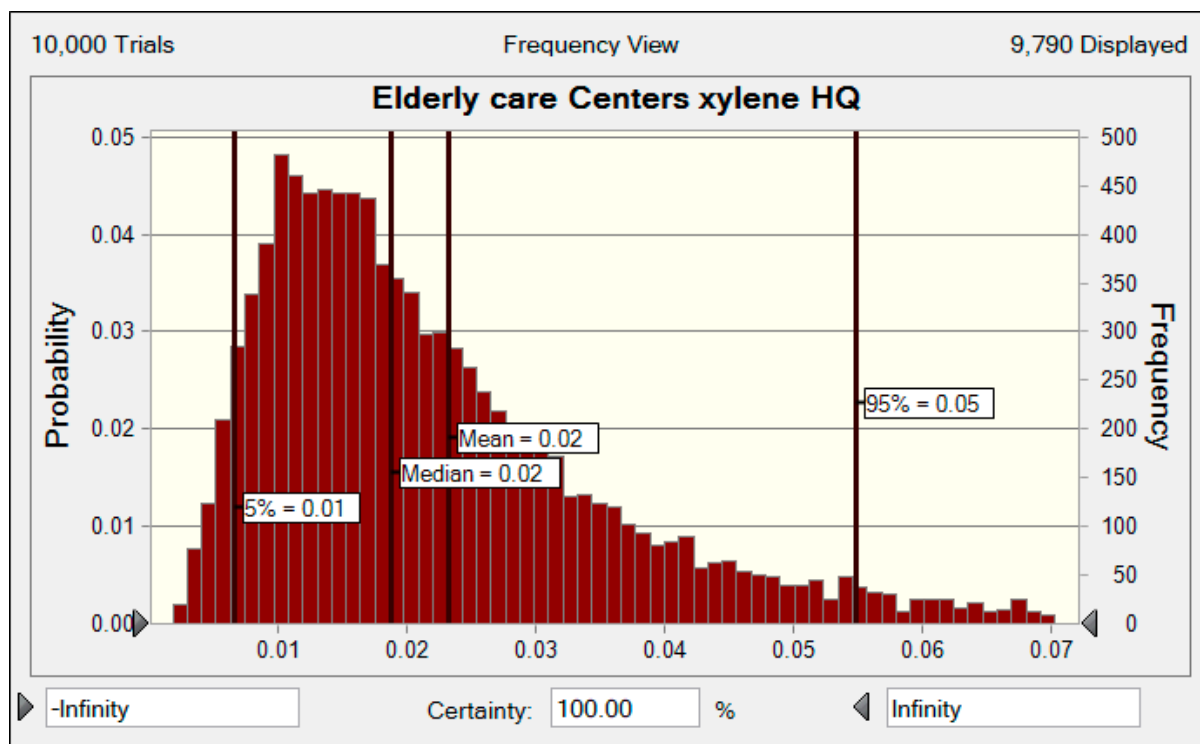
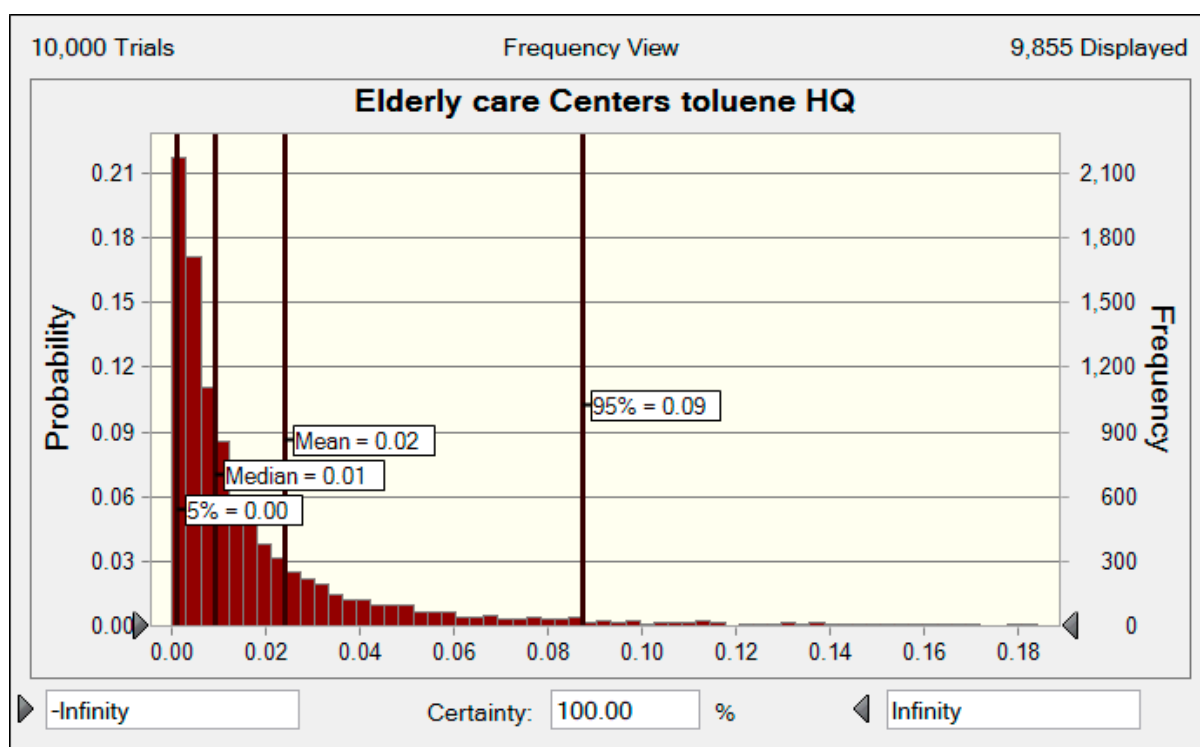
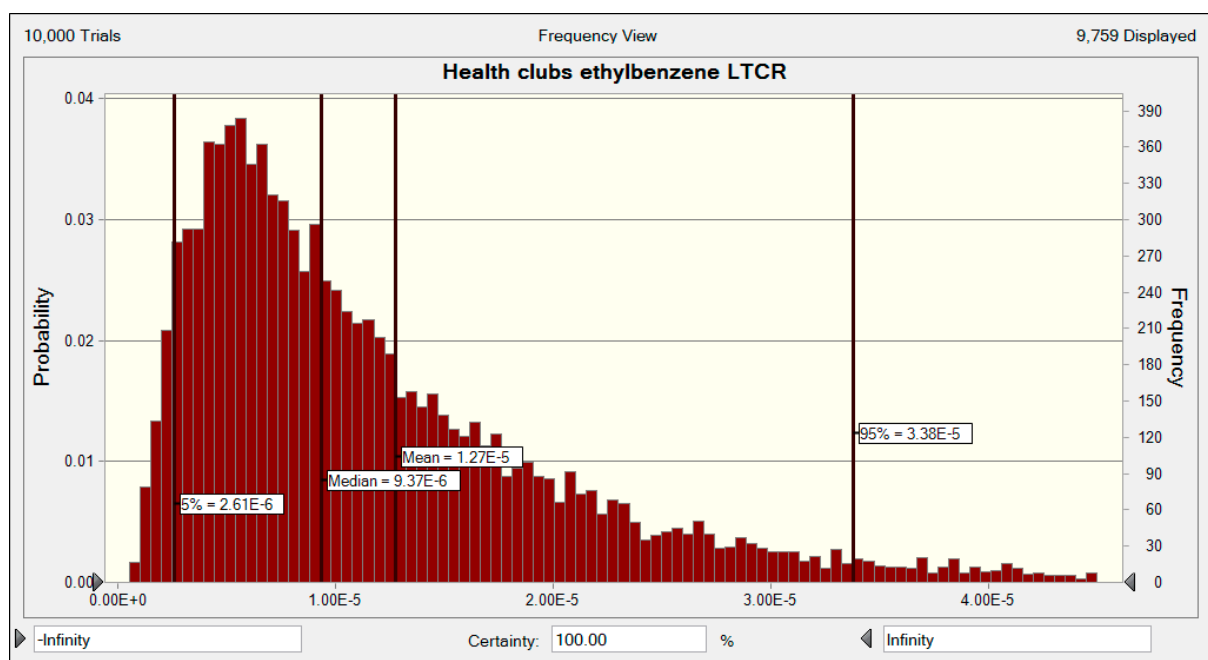
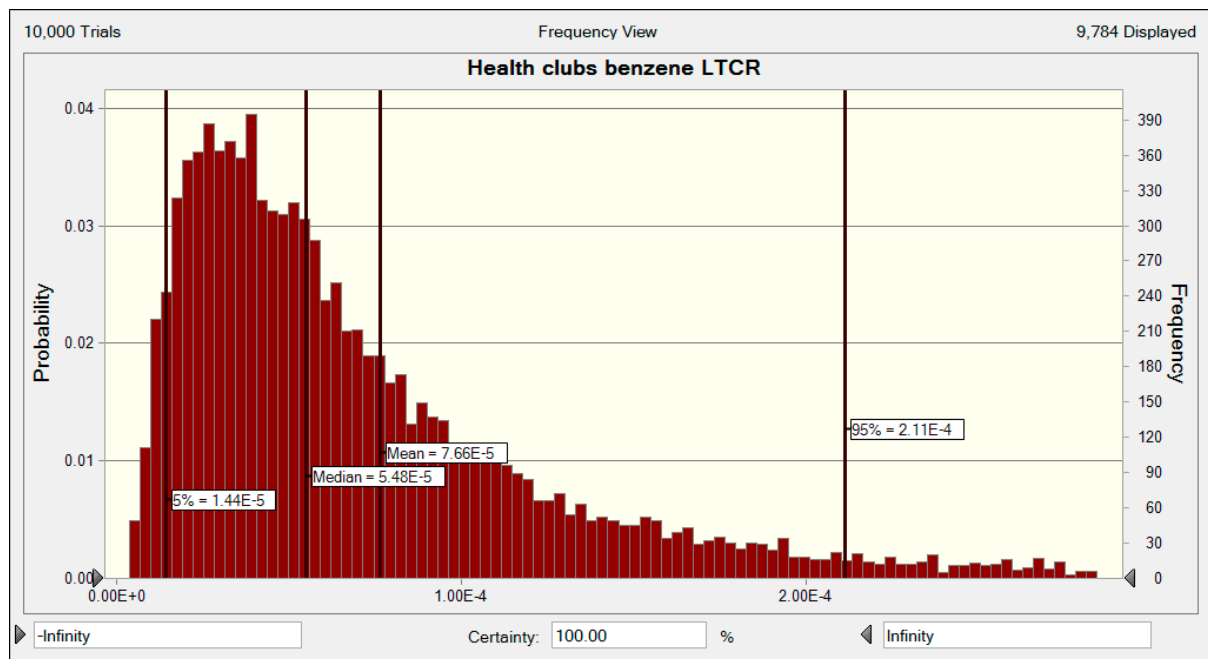
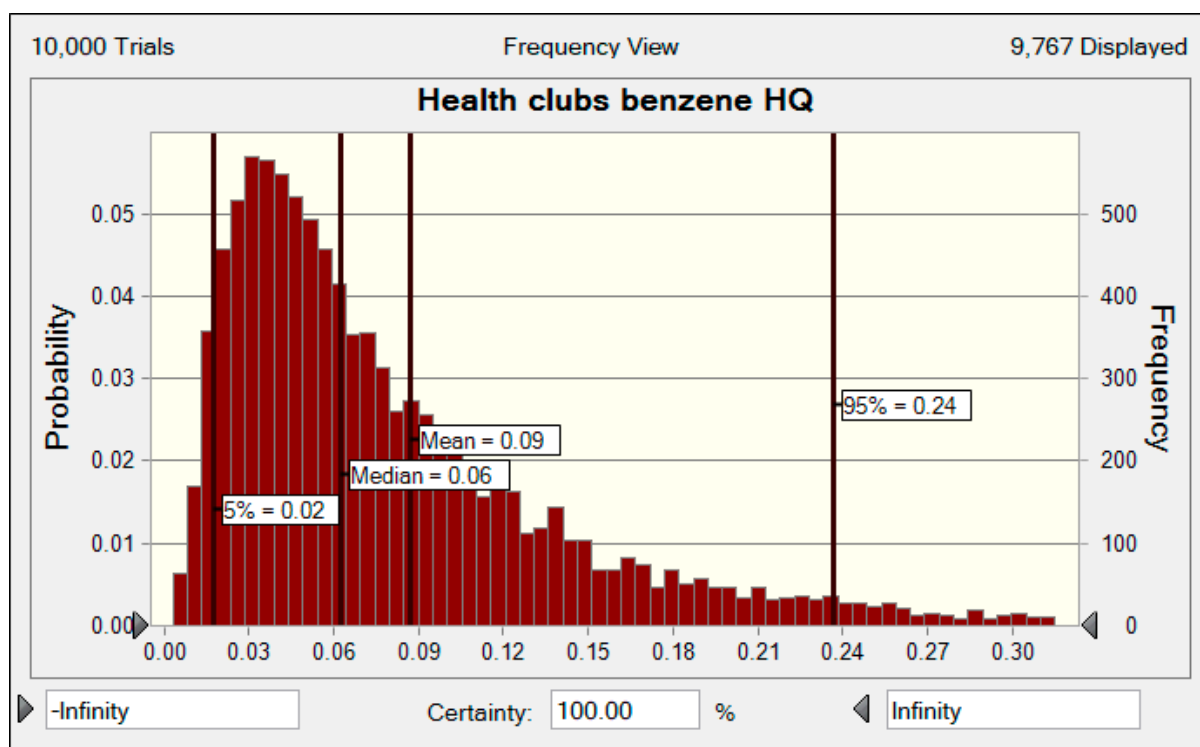
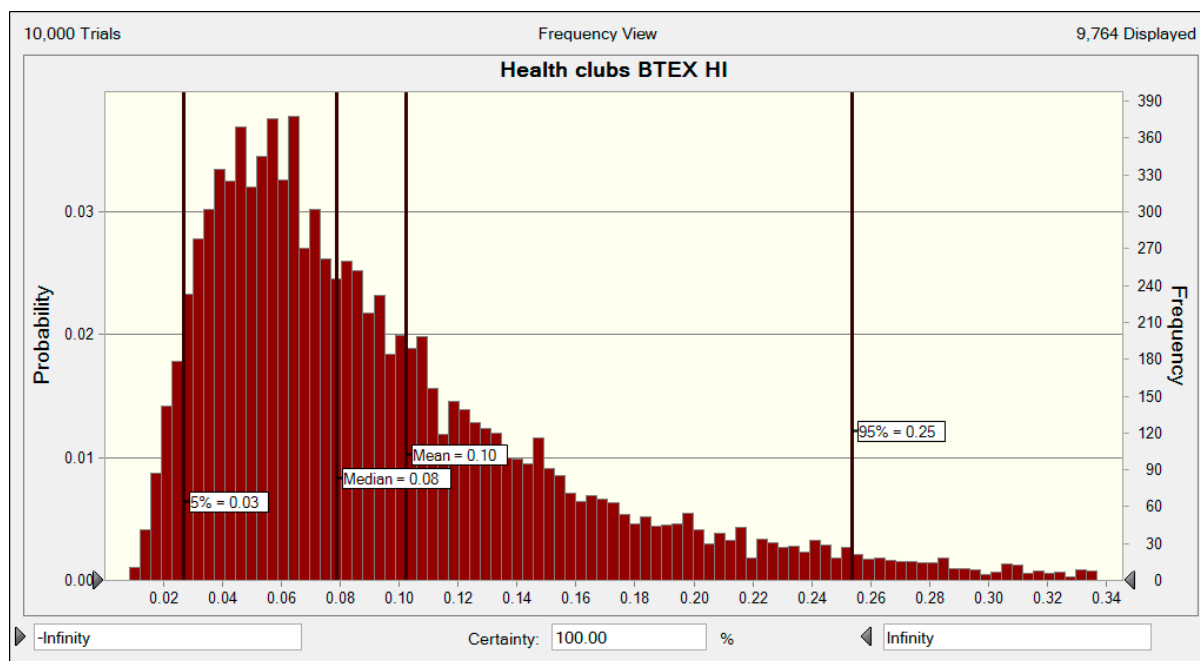
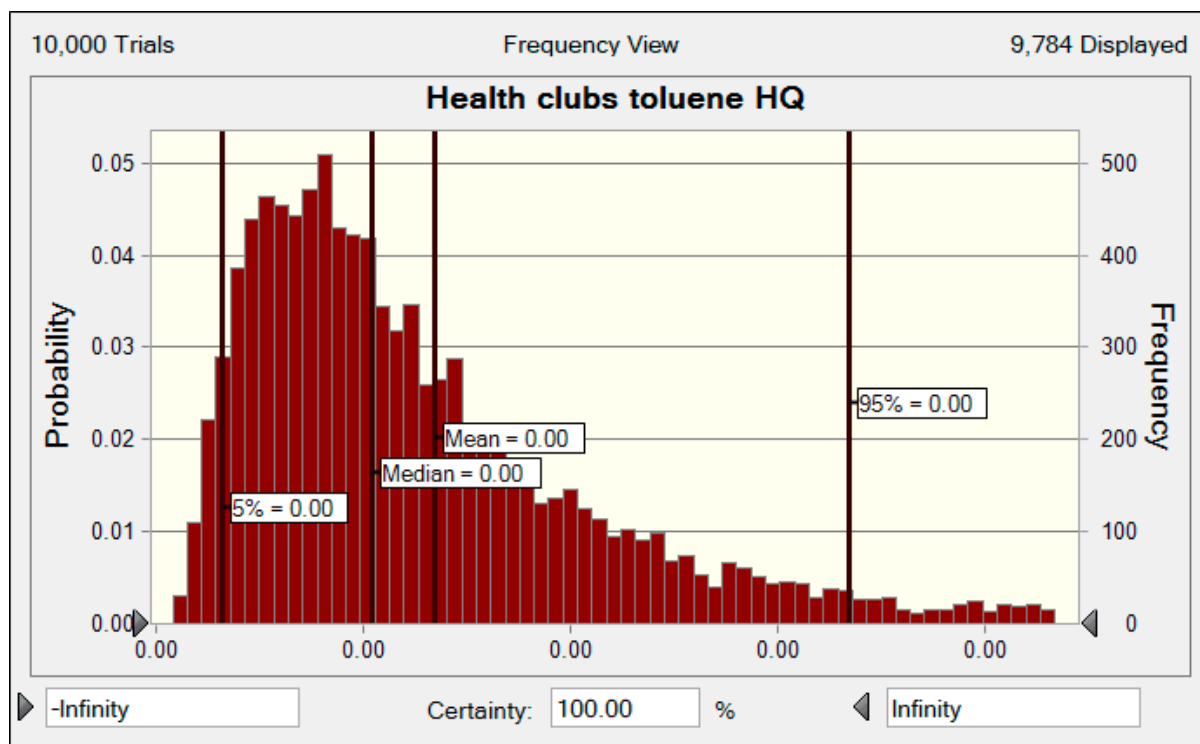
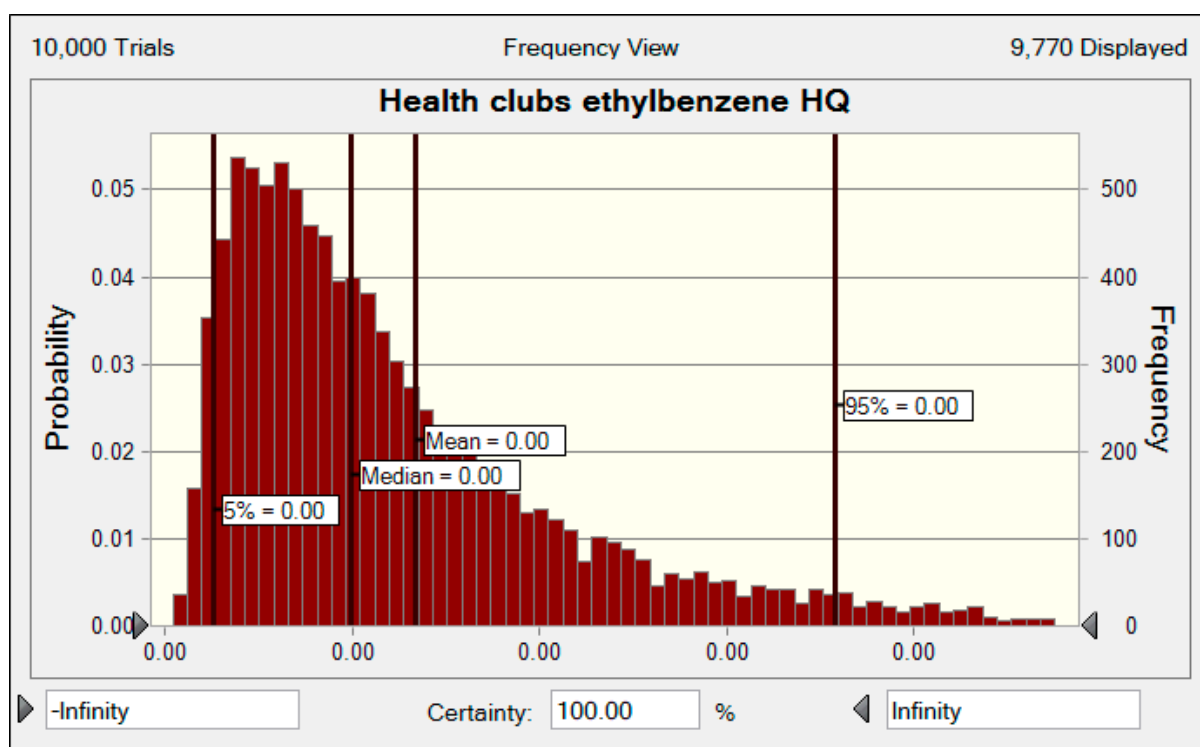


Figure S3. Probability distributions of BTEX cancer and non-cancer risk in elderly care centers.







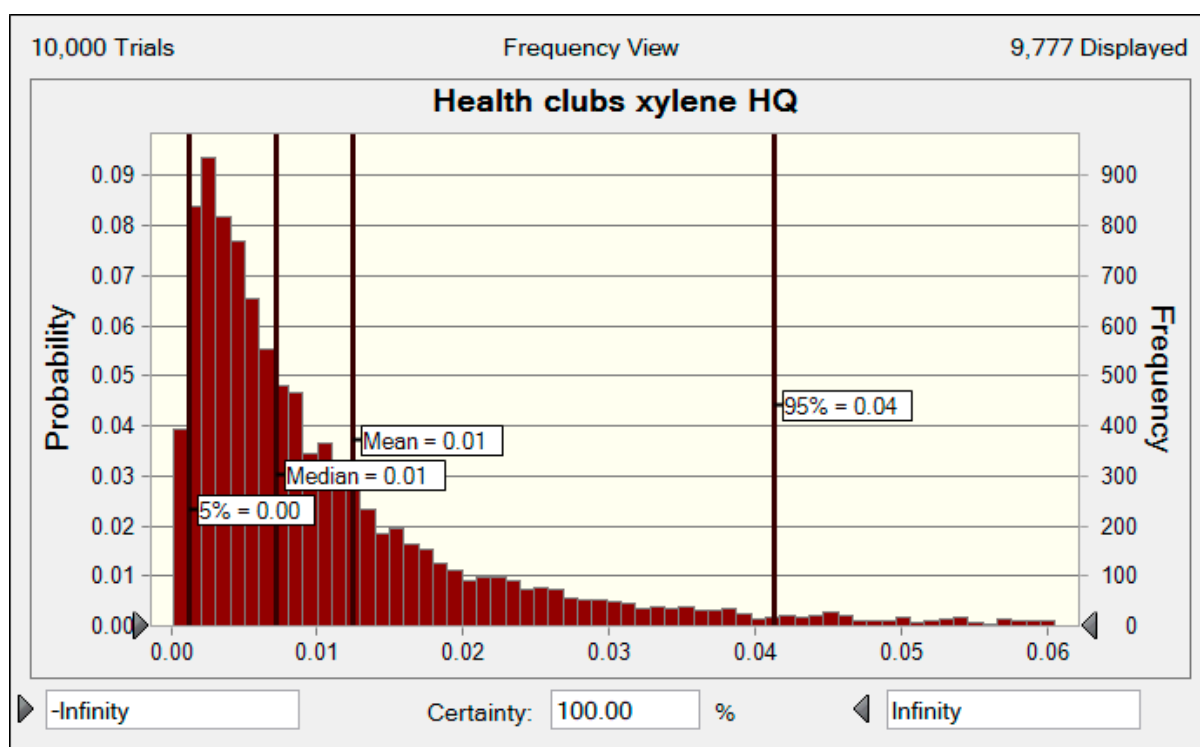
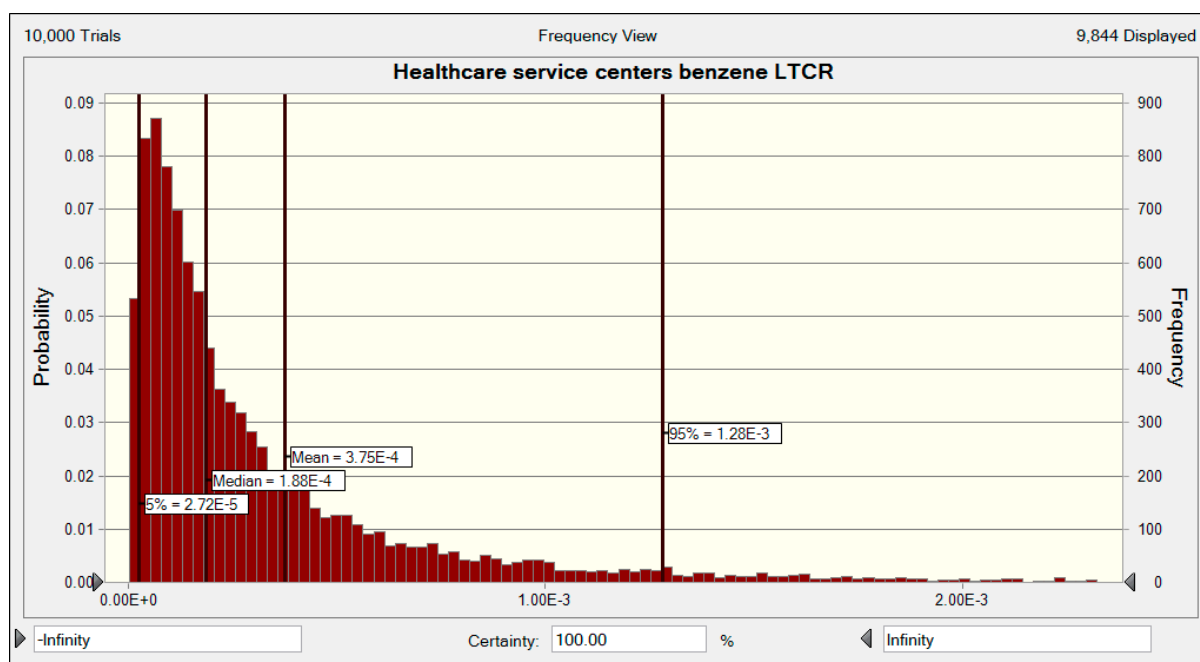
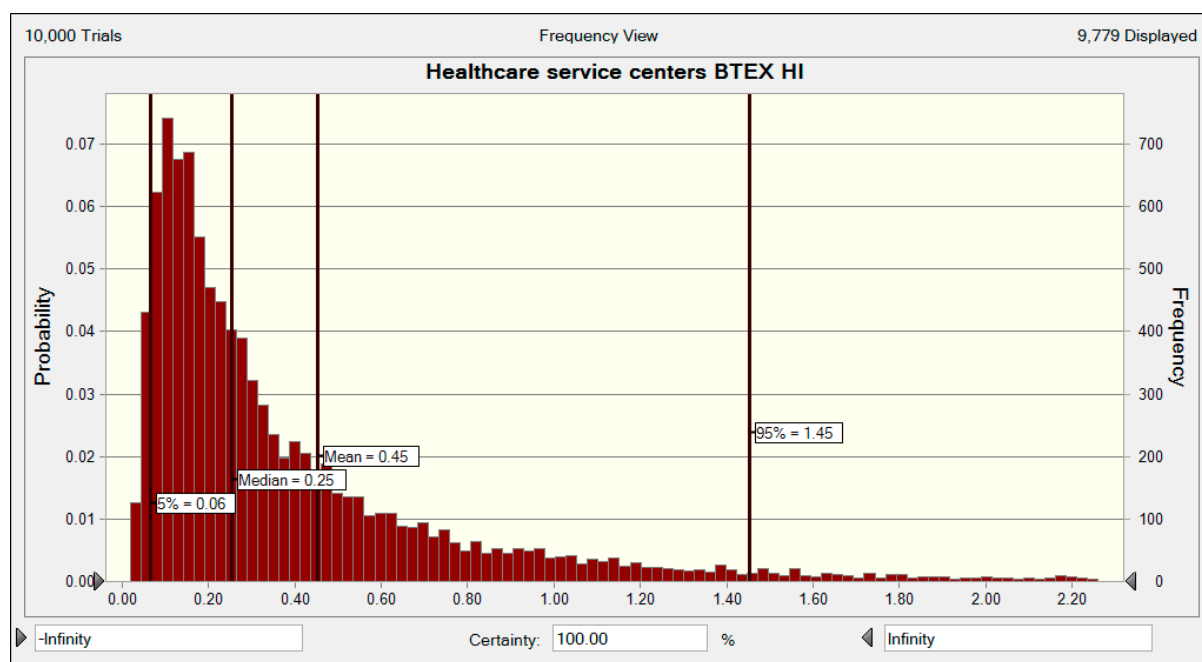
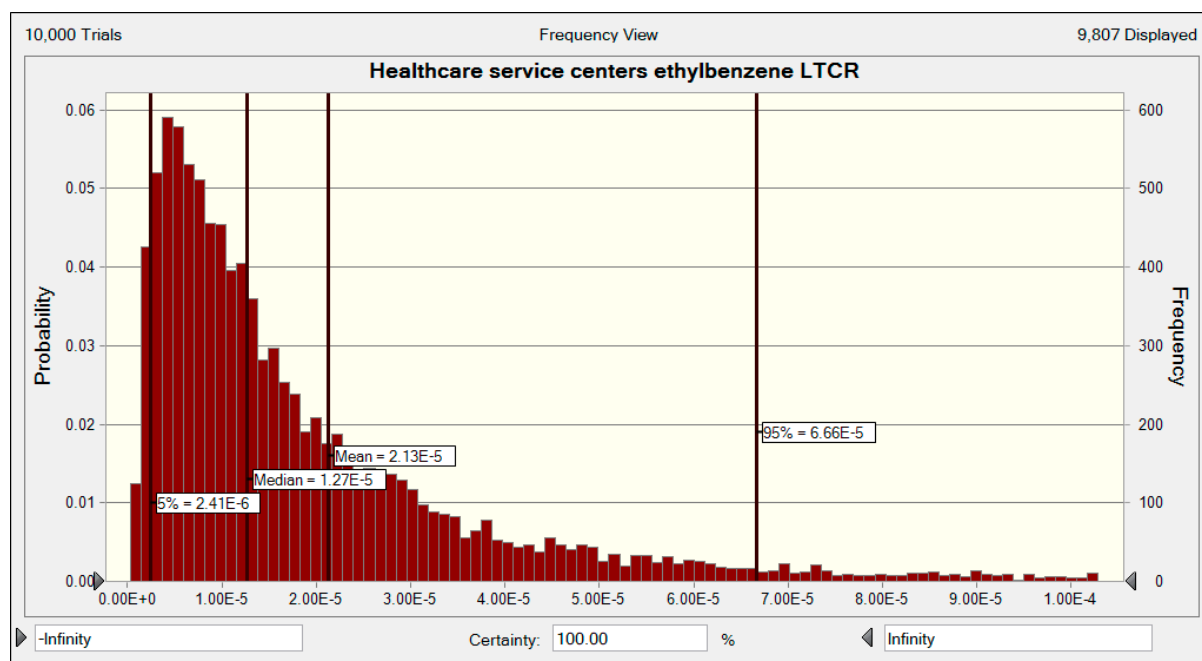
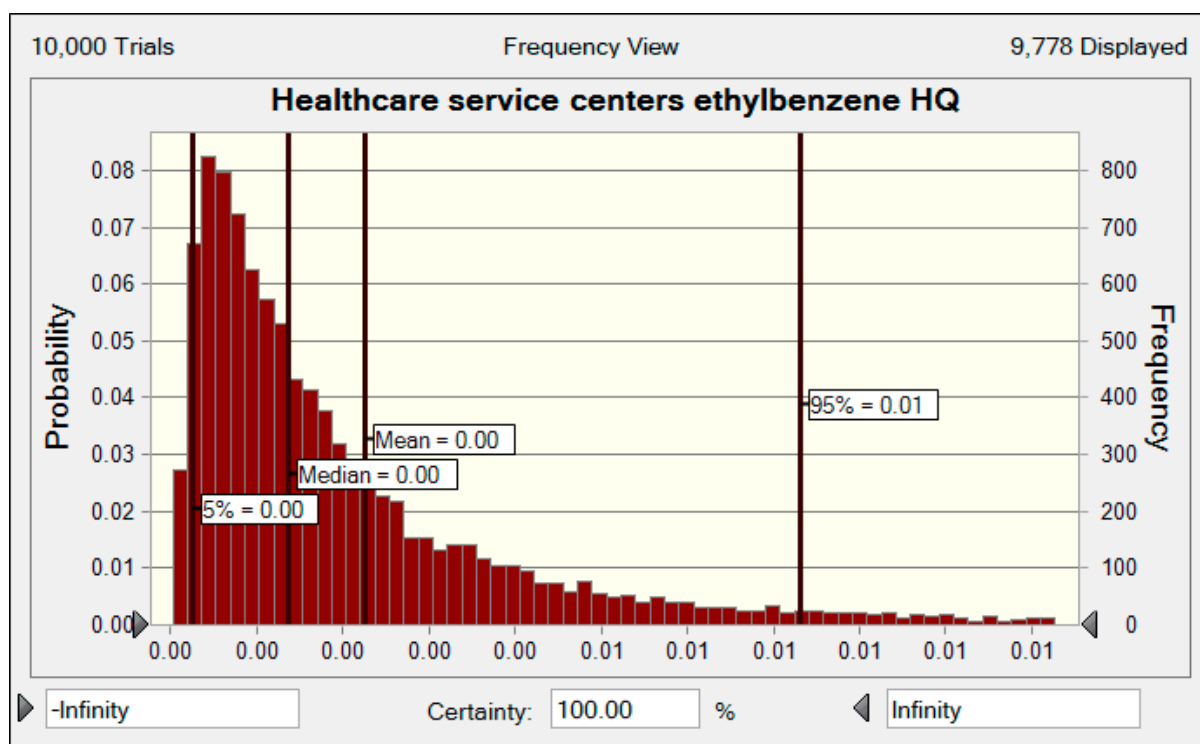
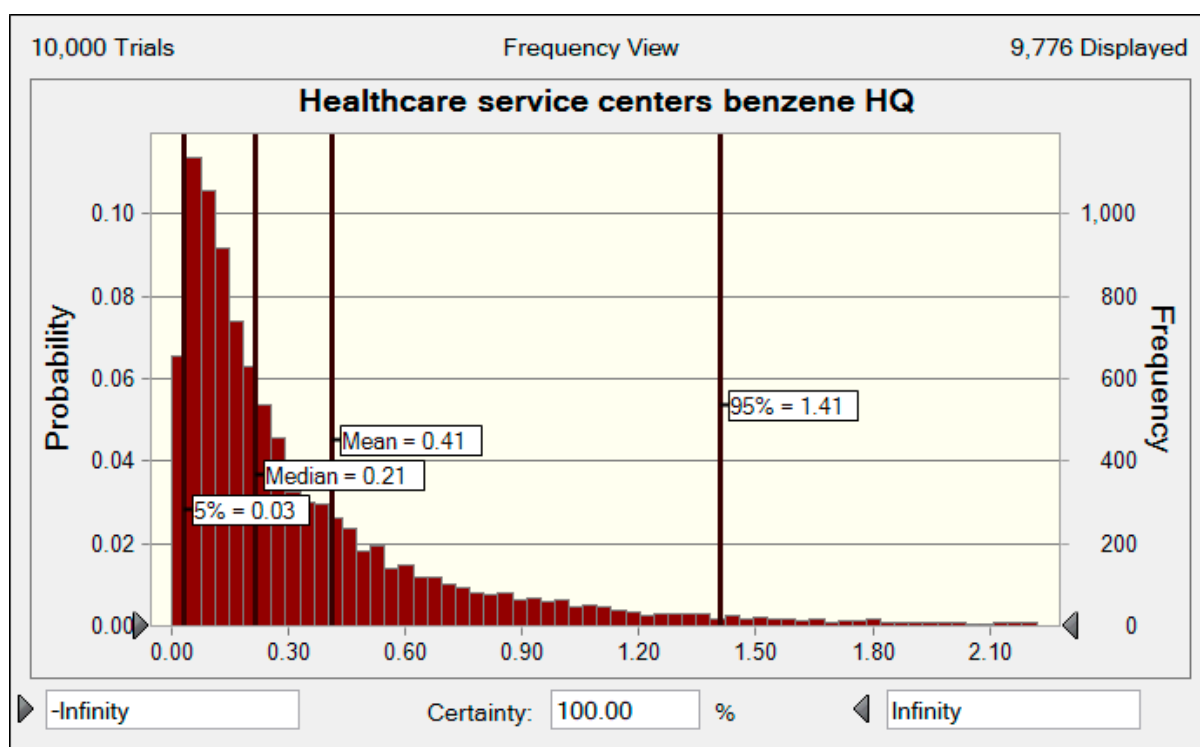


Figure S4. Probability distributions of BTEX cancer and non-cancer risk in health clubs.









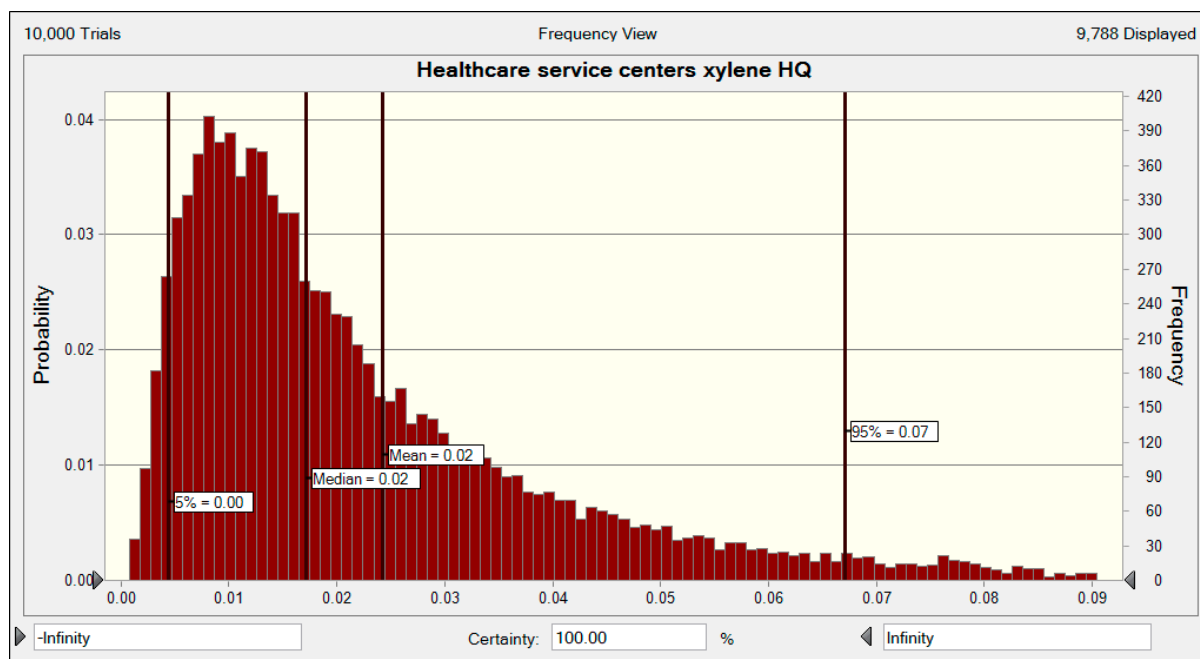
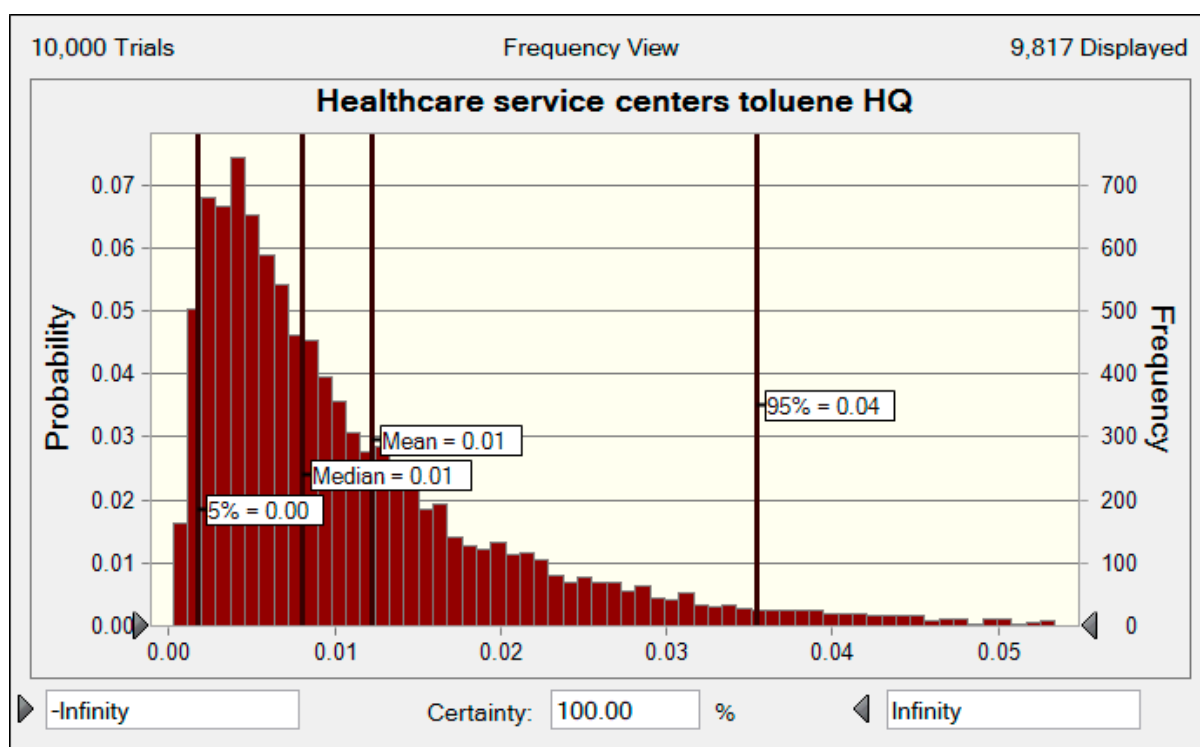
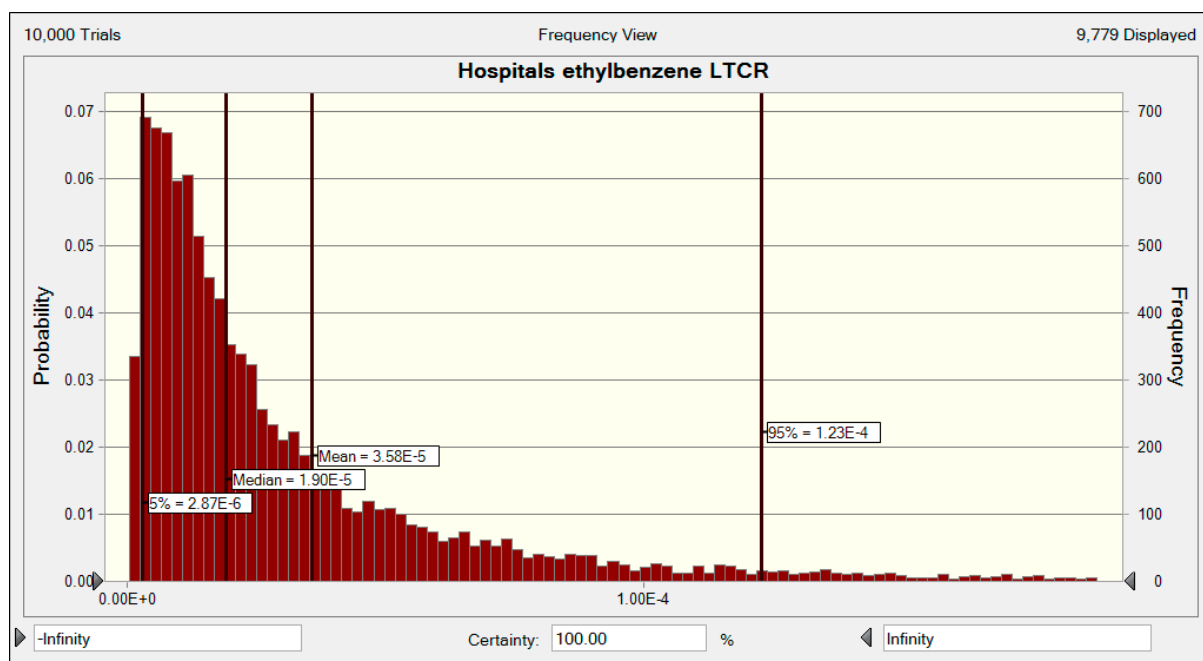
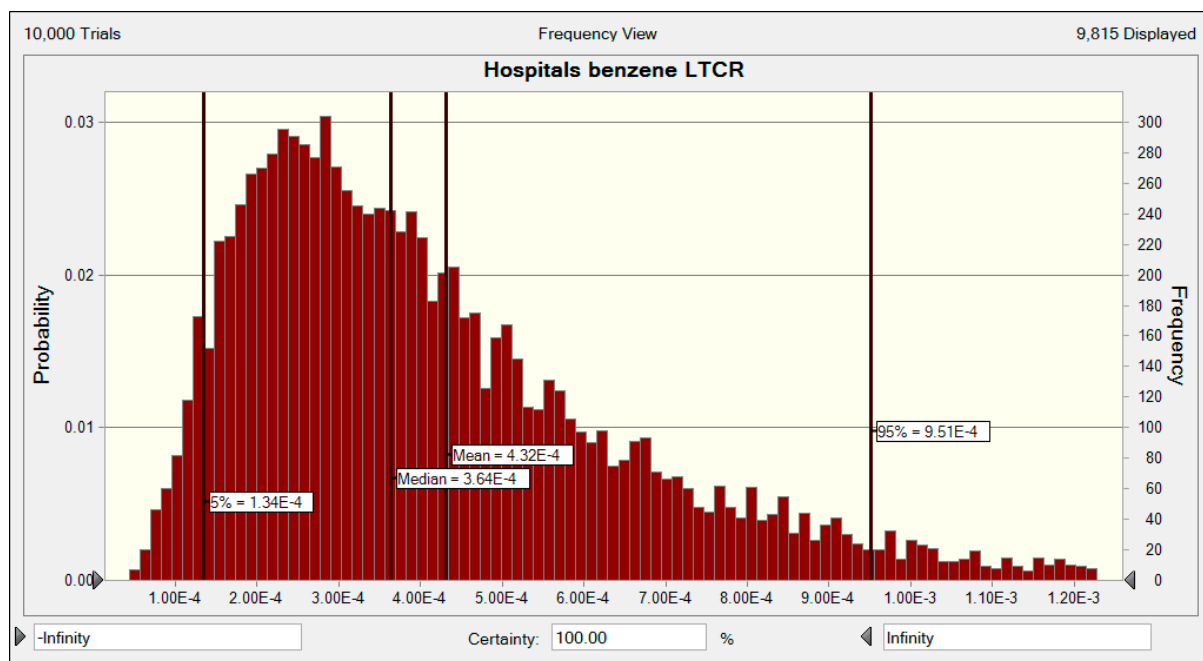
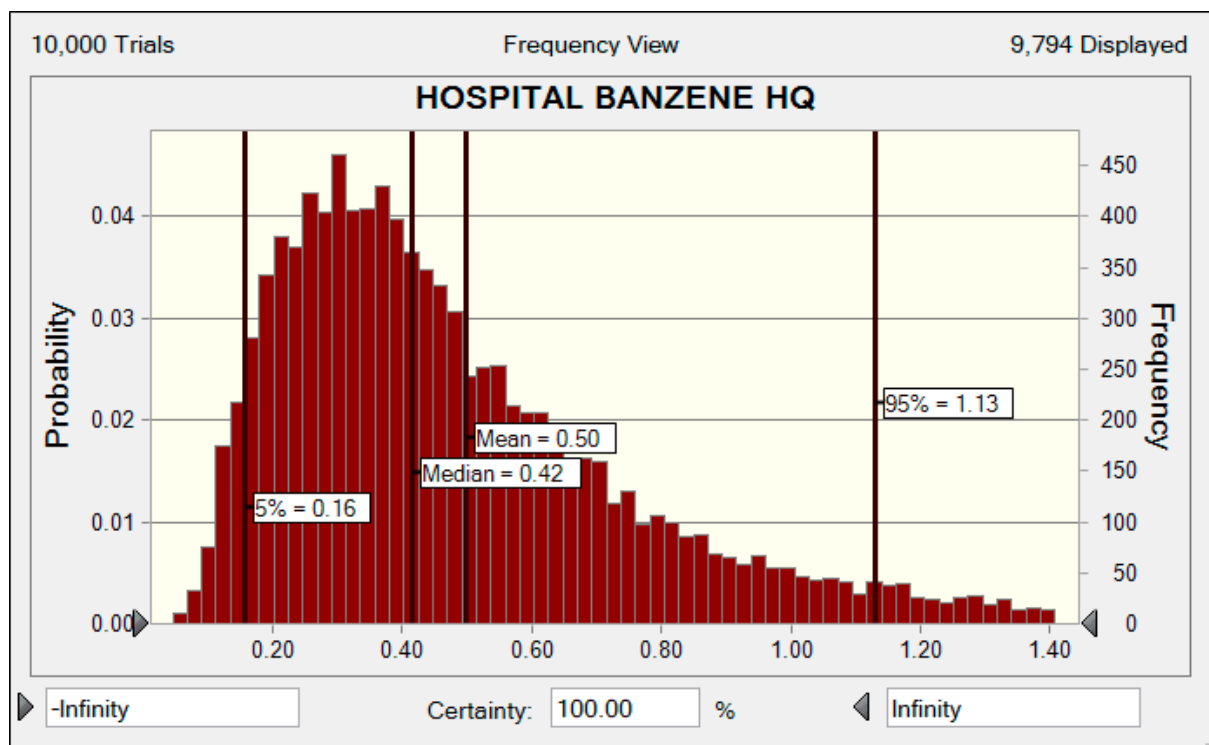
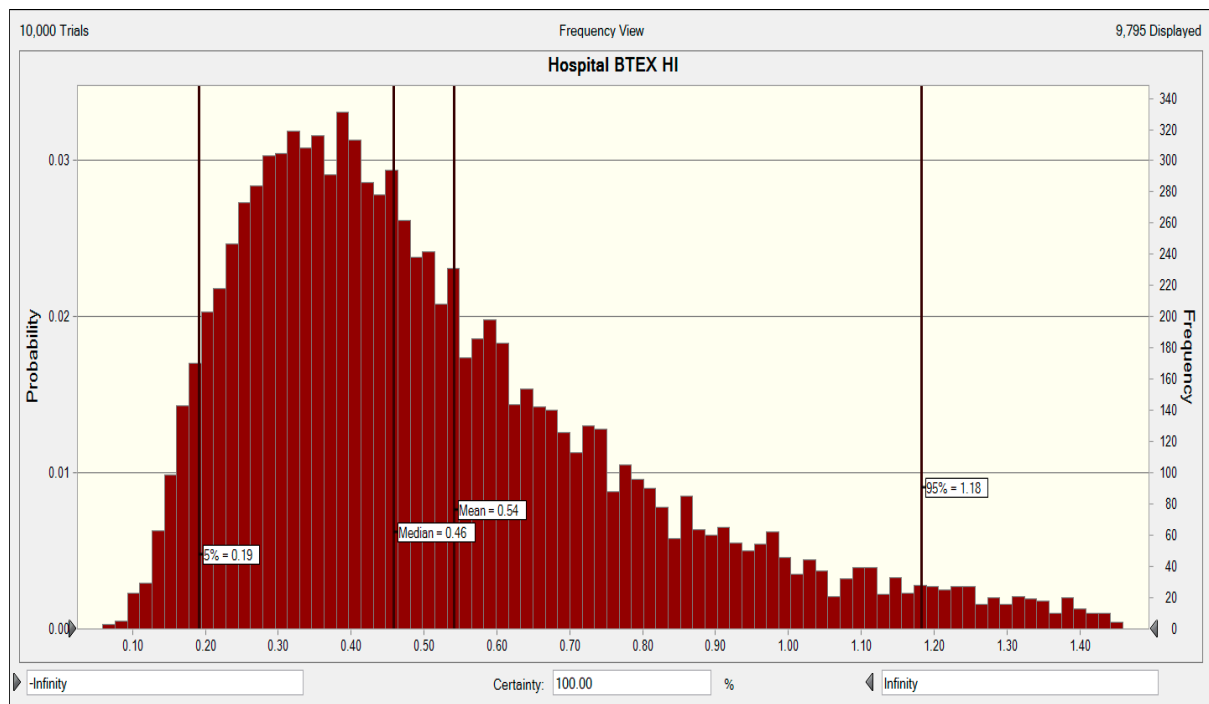
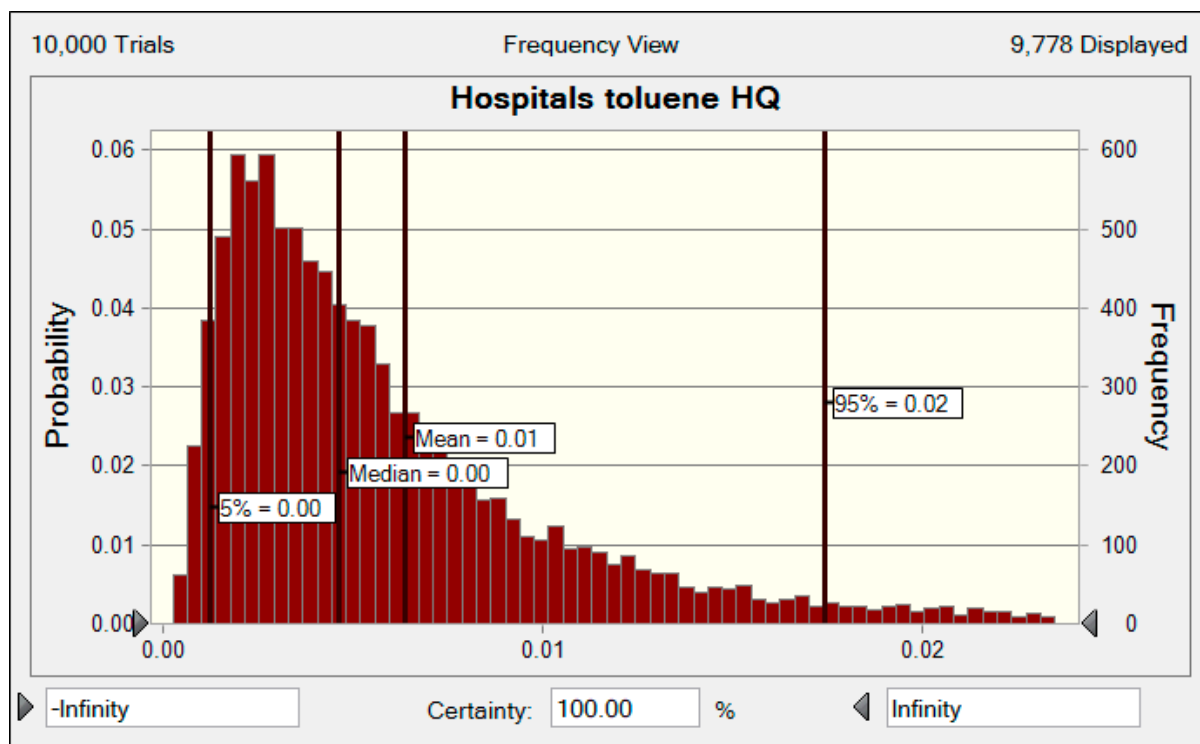
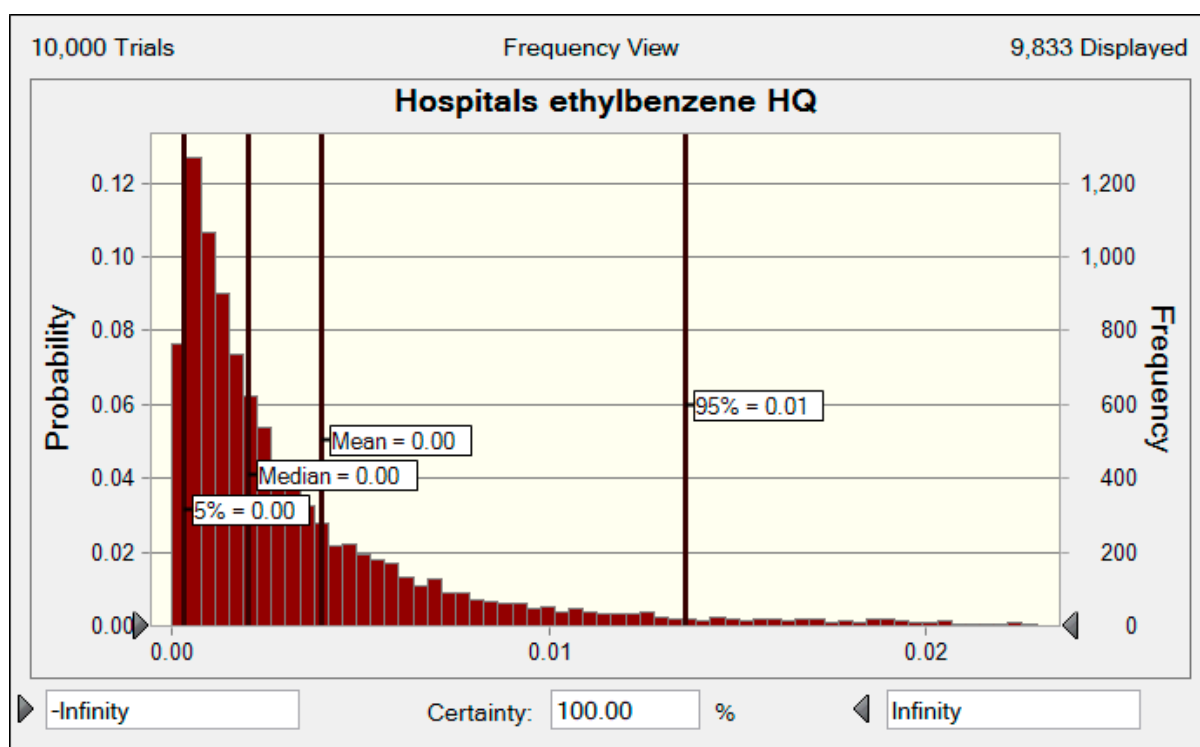


Figure S5. Probability distributions of BTEX cancer and non-cancer risk in healthcare service centers.







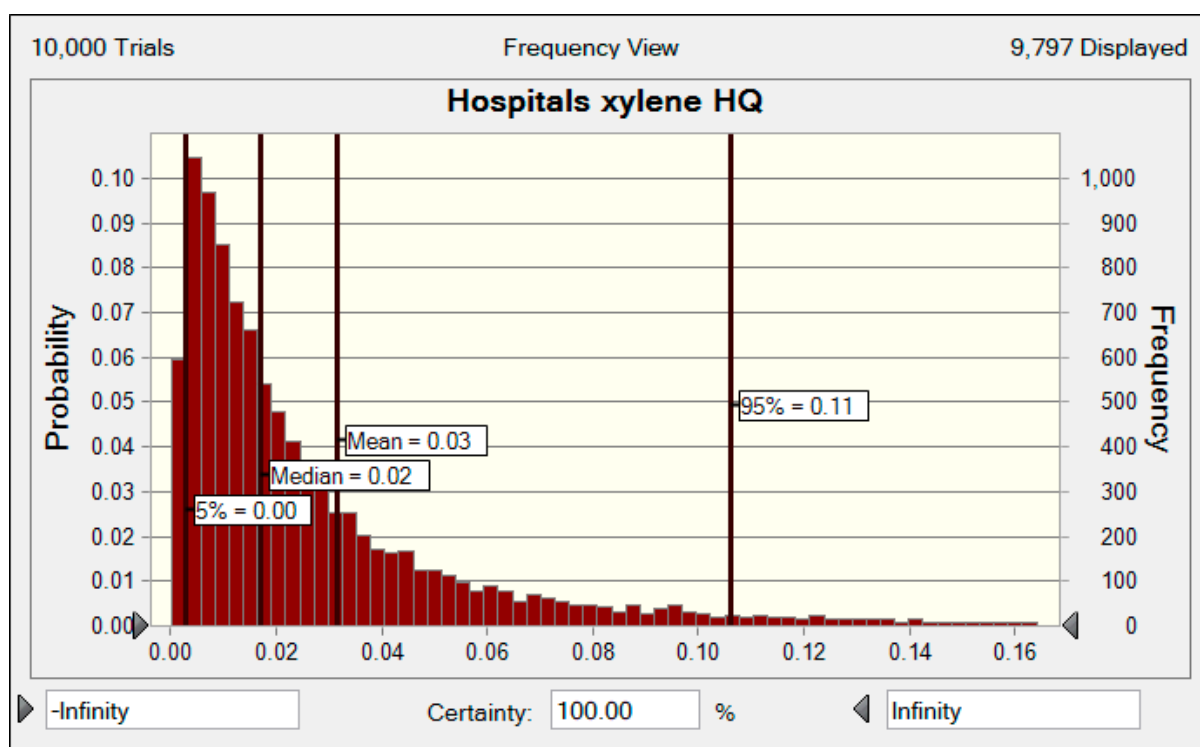
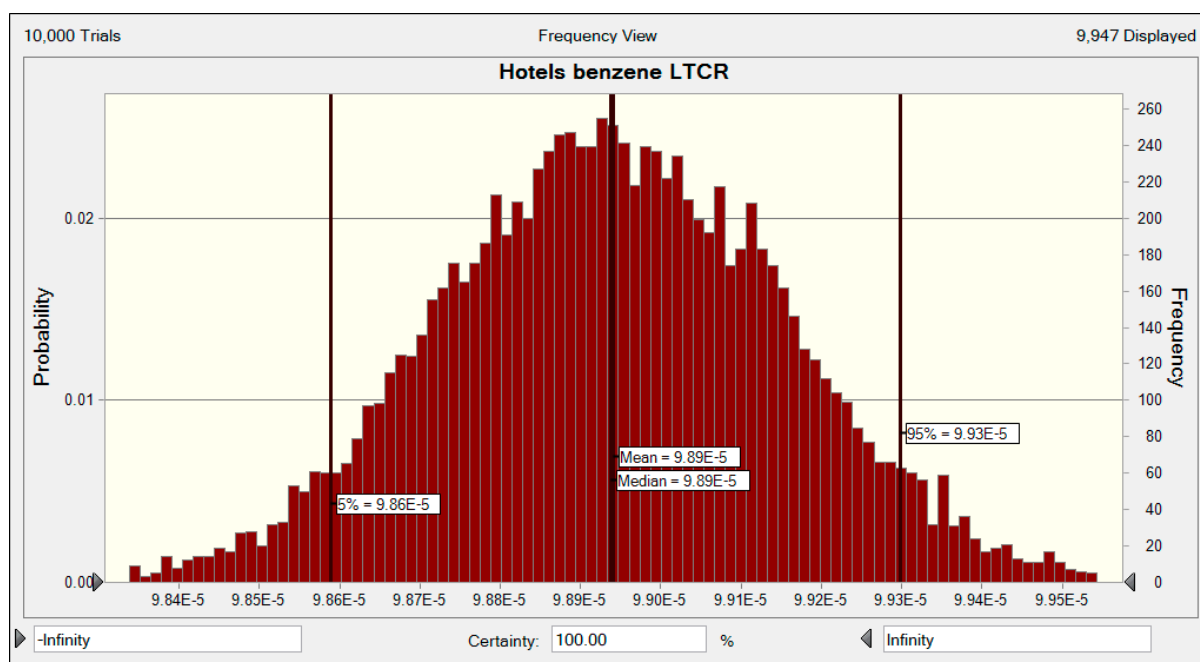
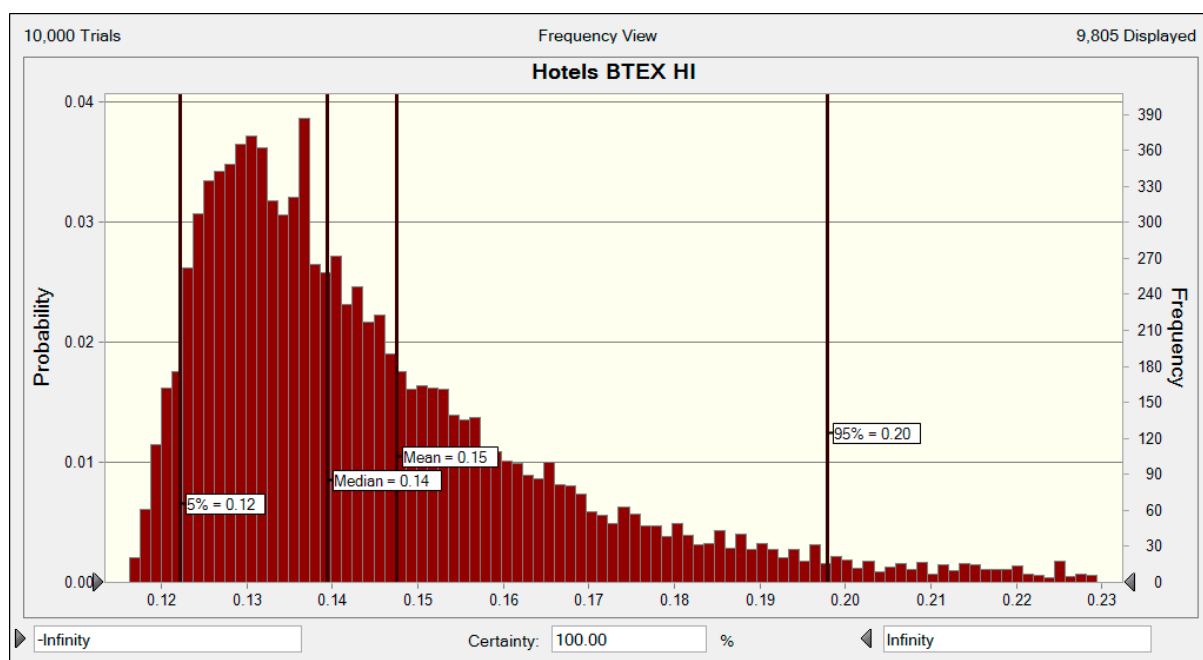
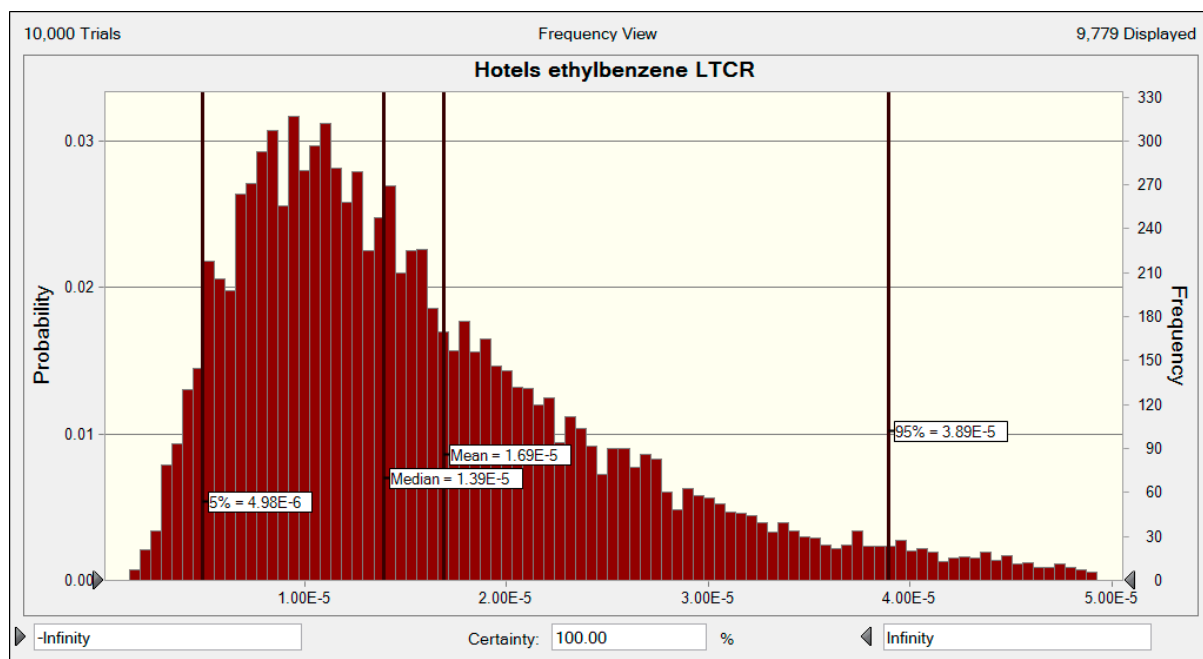
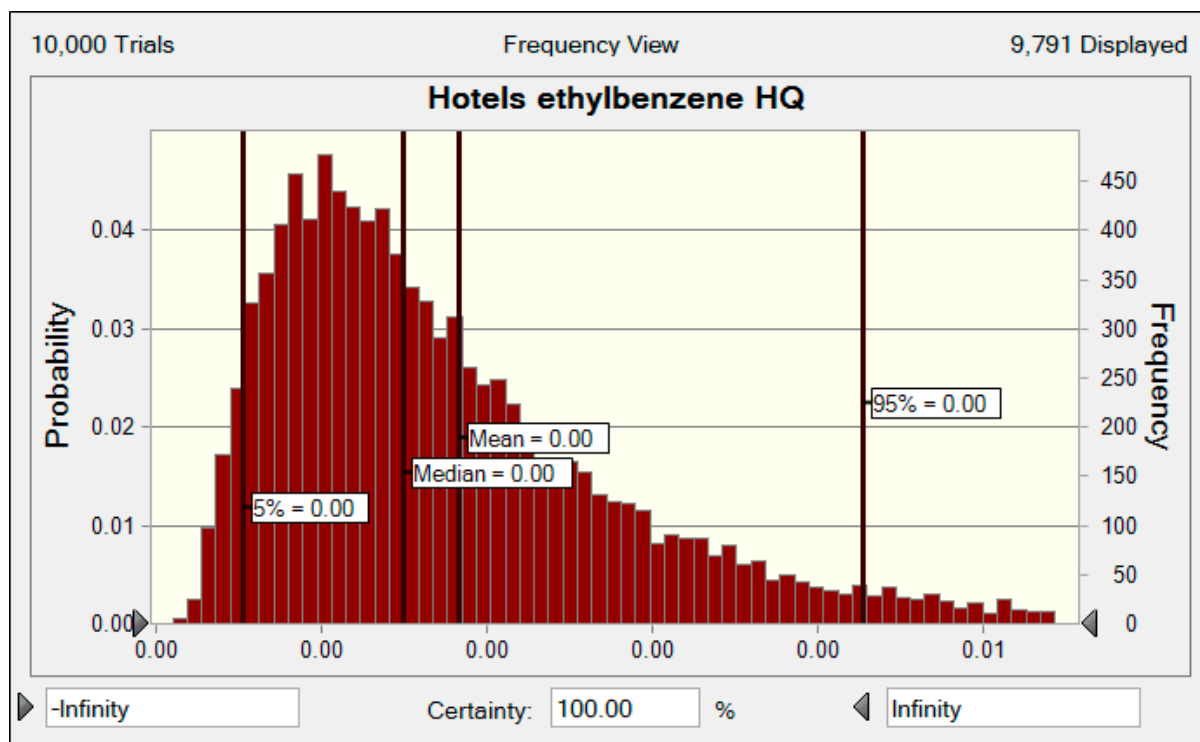
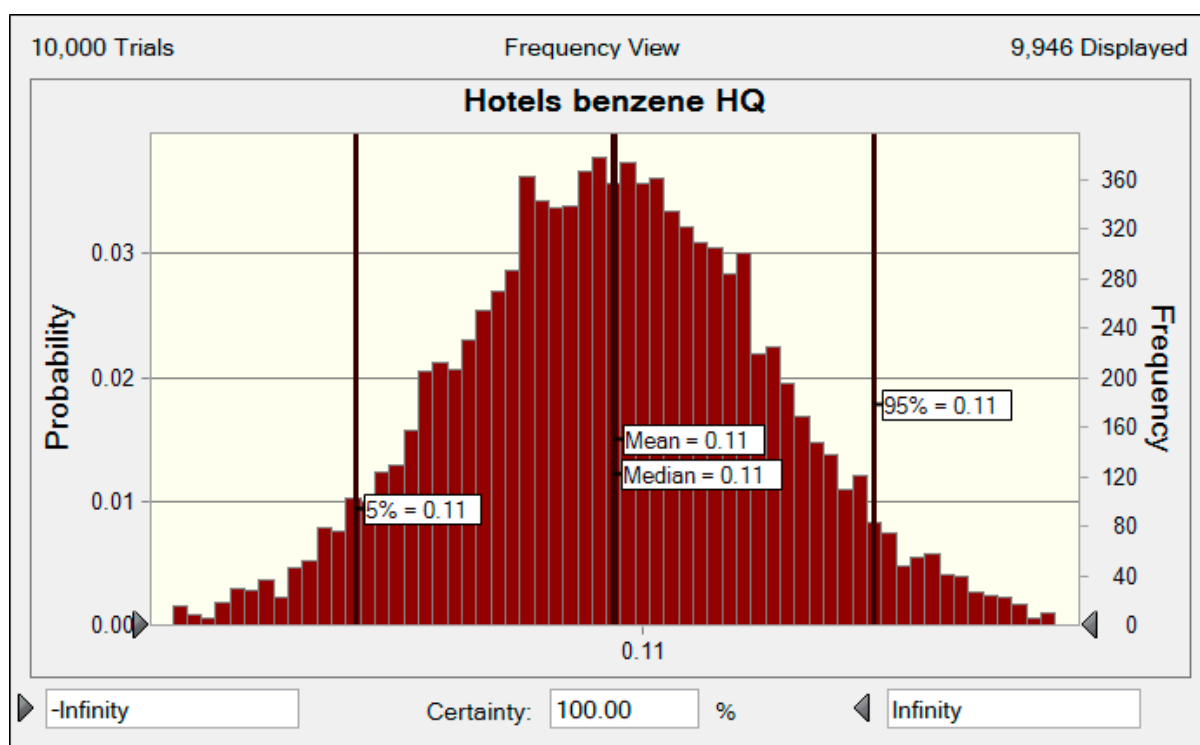


Figure S6. Probability distributions of BTEX cancer and non-cancer risk in hospitals.









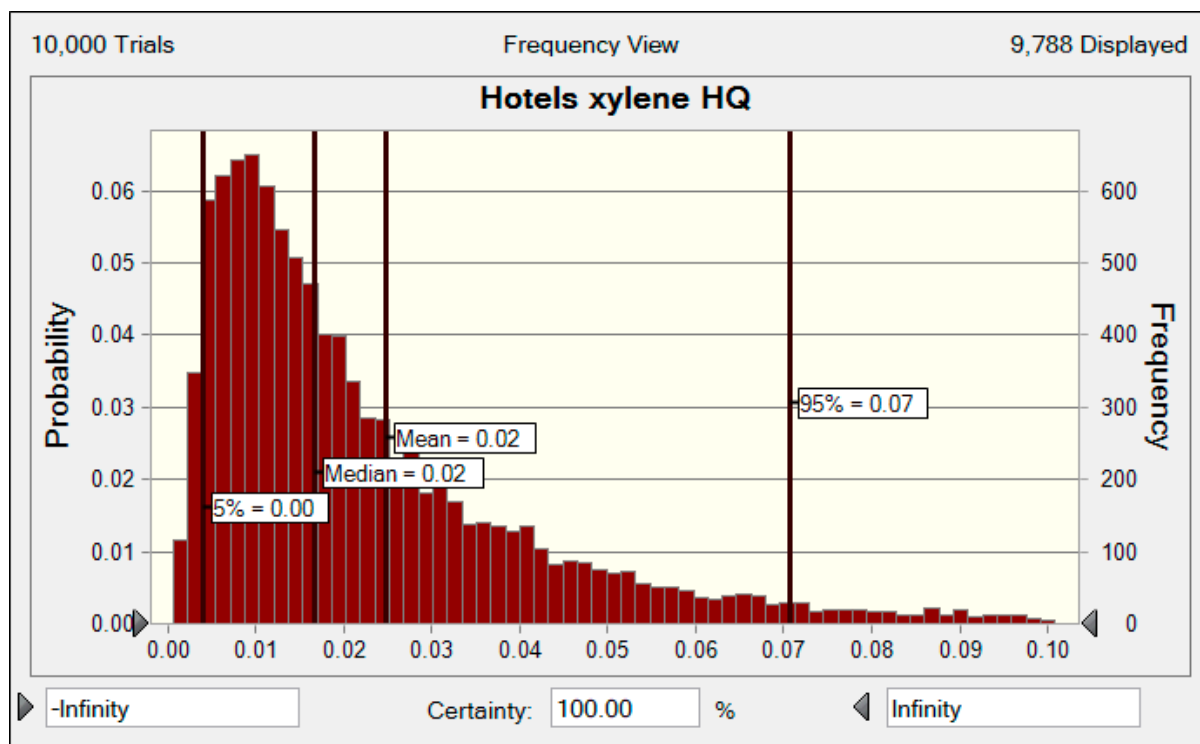
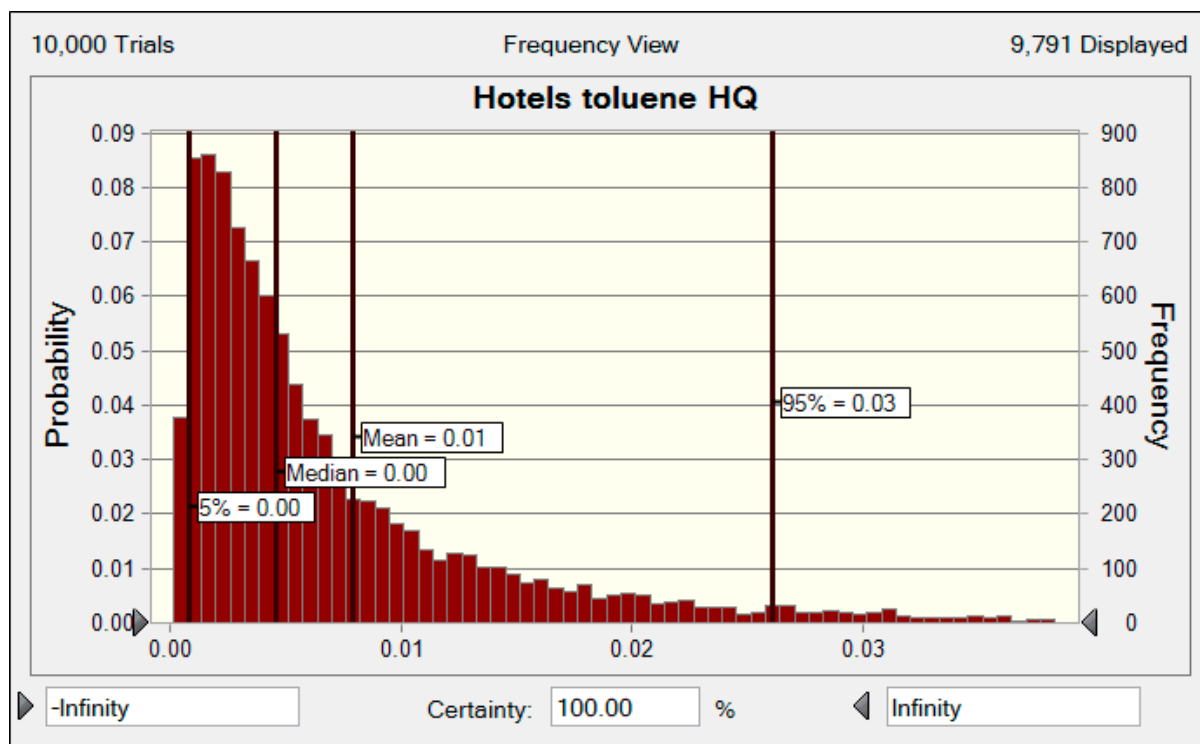
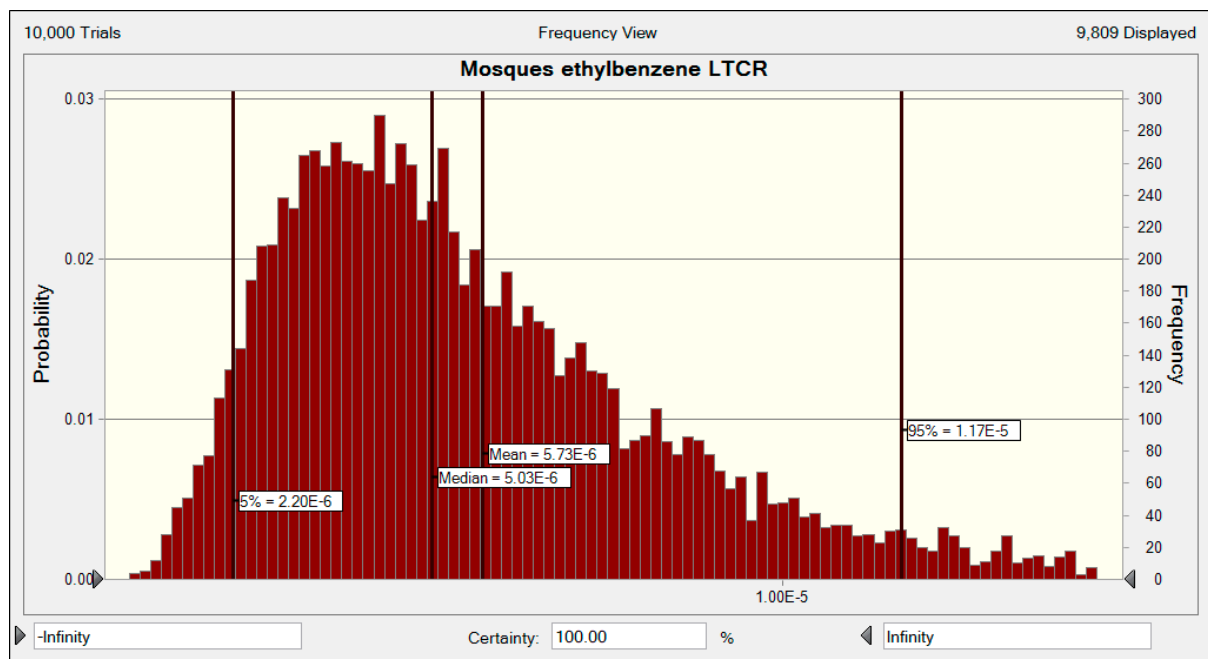
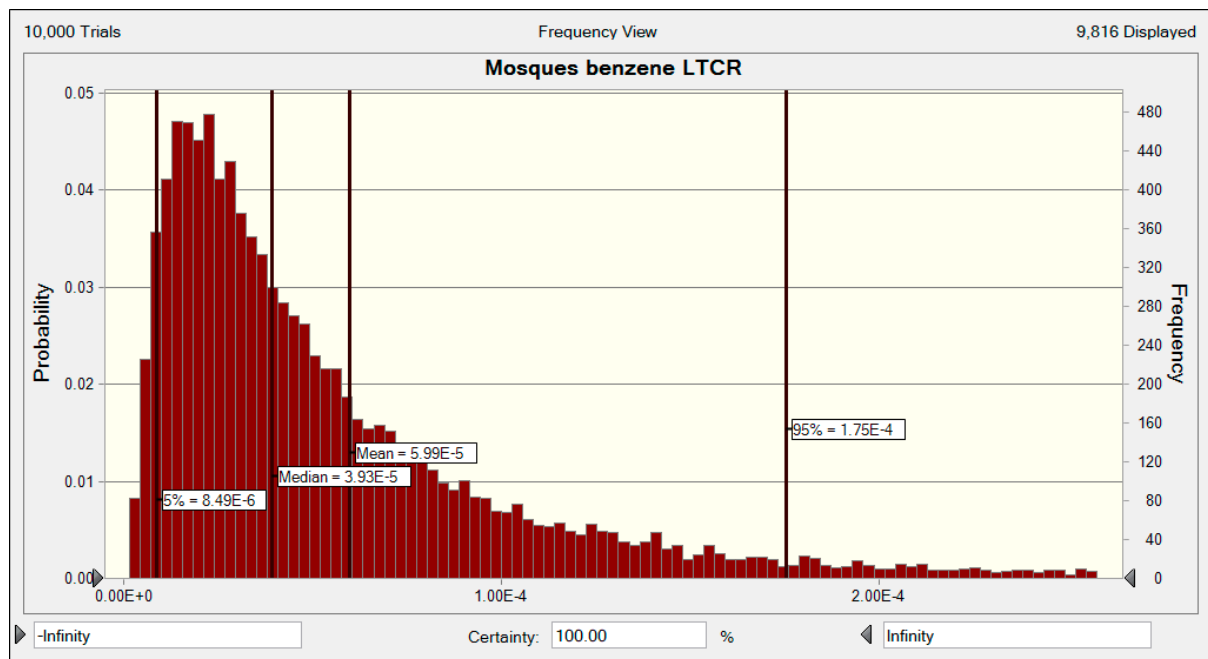
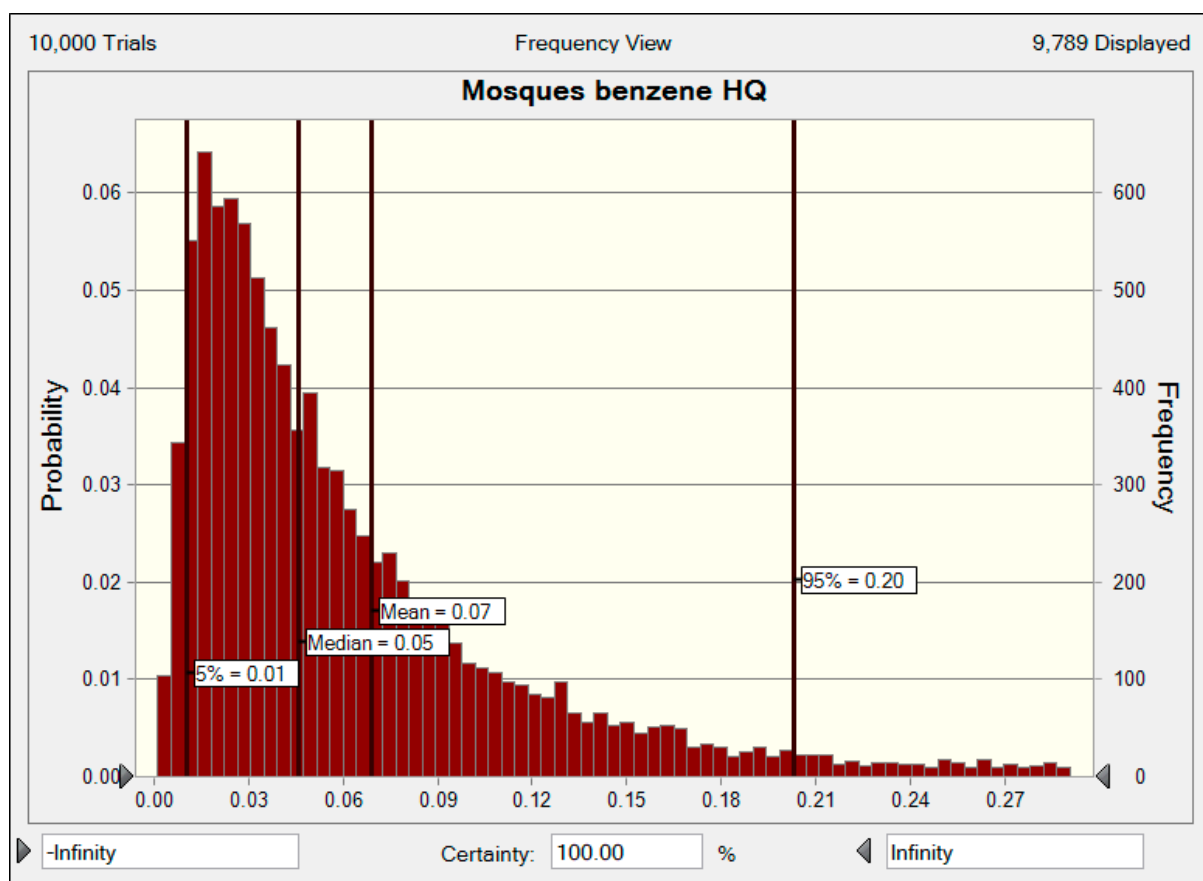
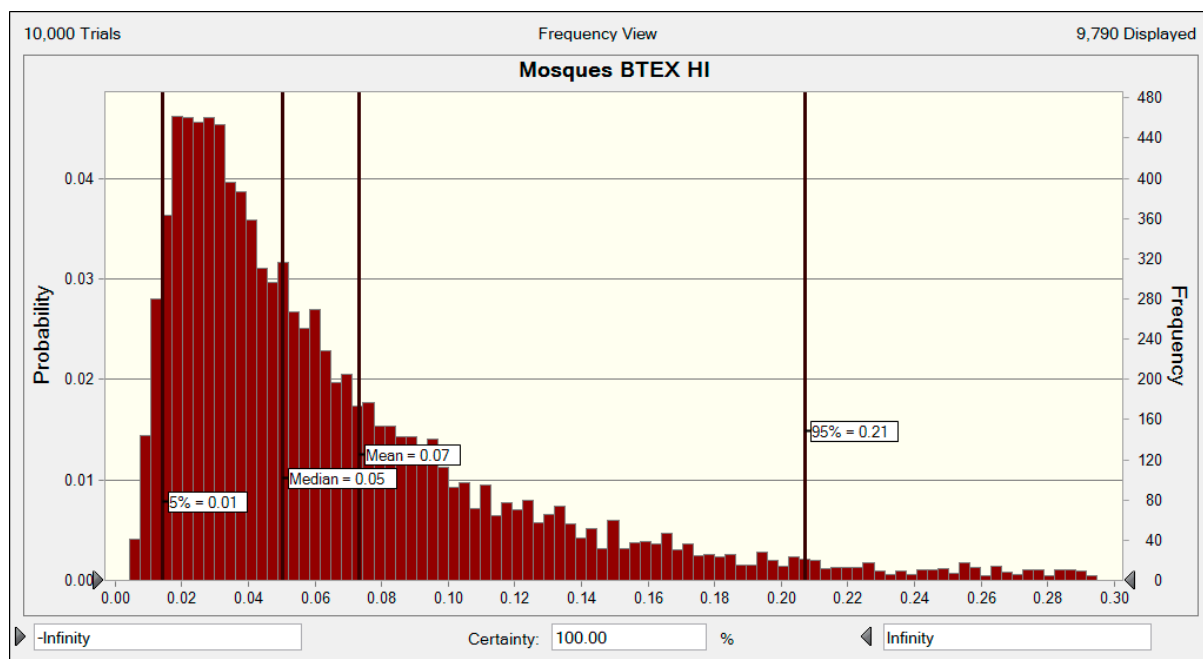
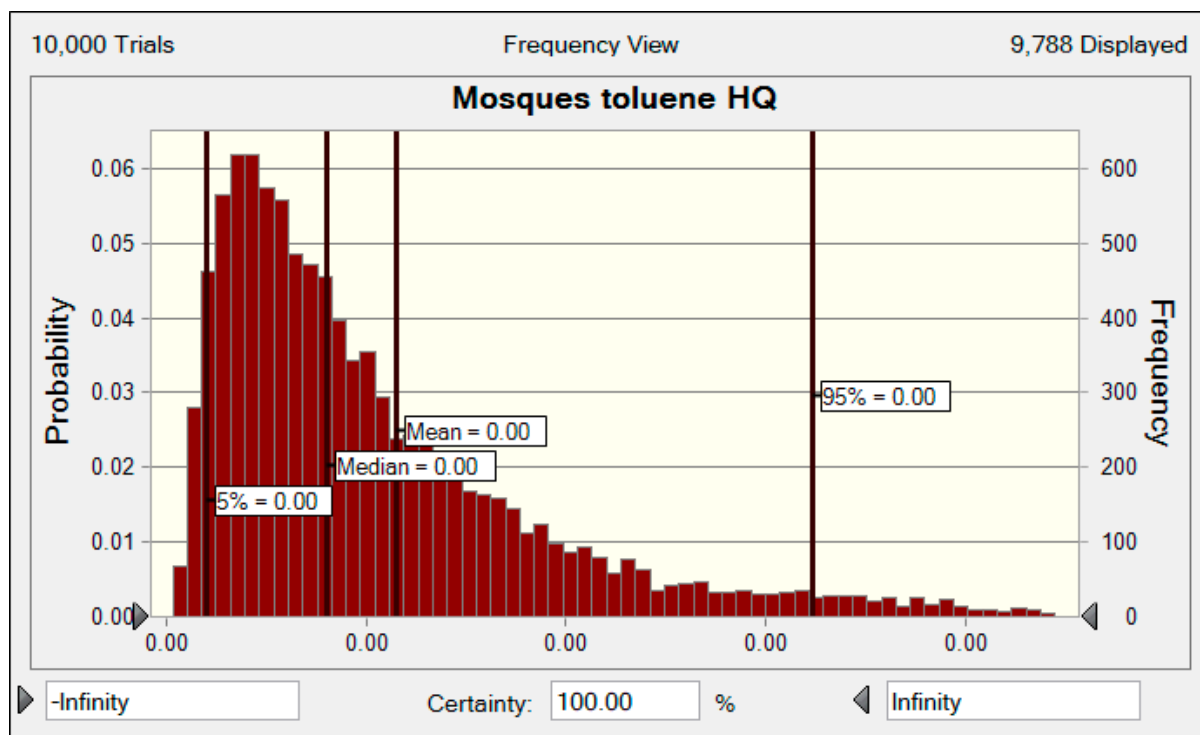
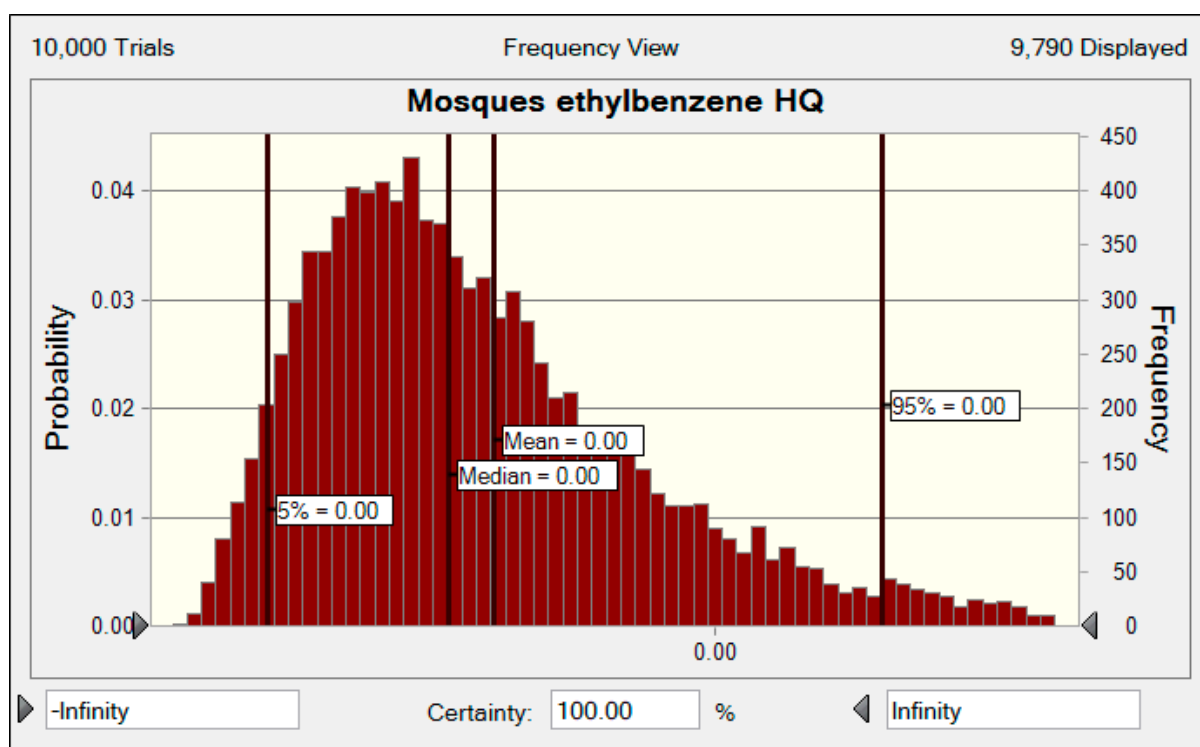


Figure S7. Probability distributions of BTEX cancer and non-cancer risk in hotels.







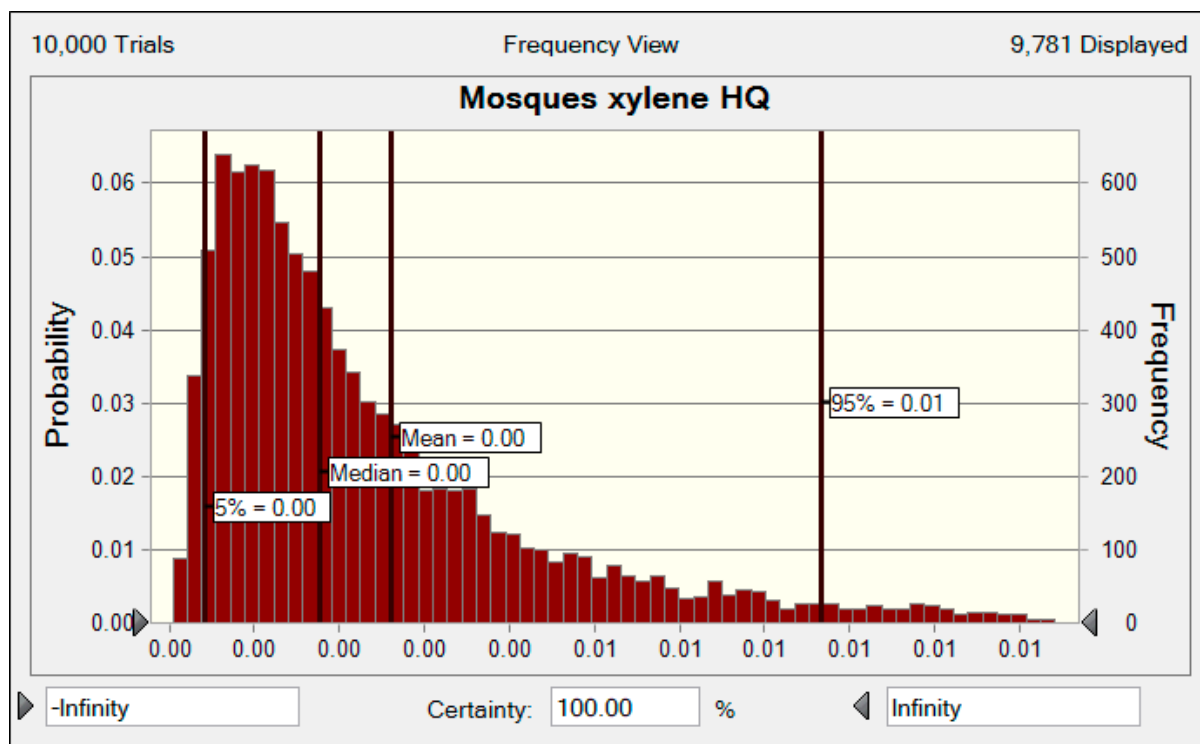
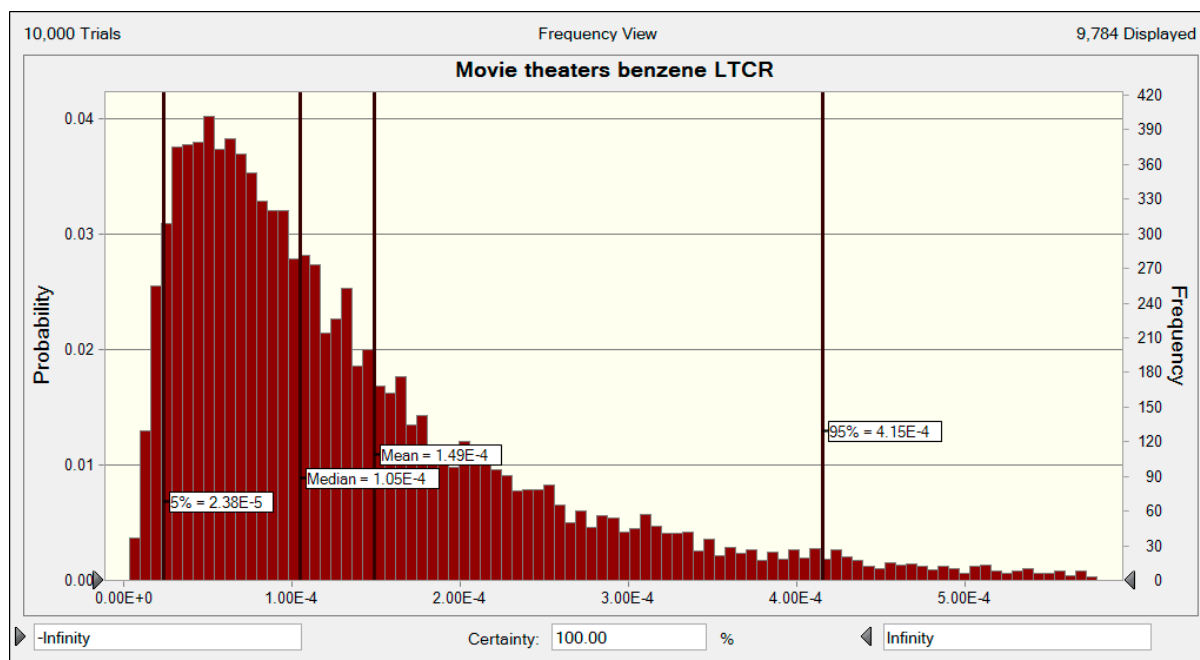
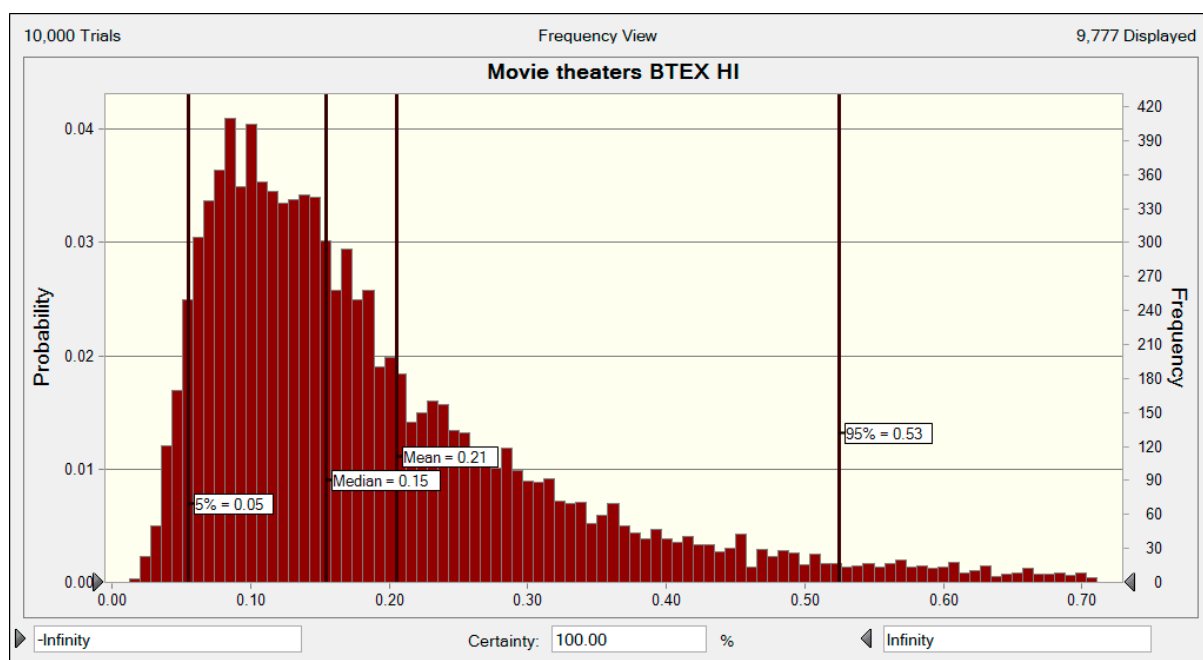
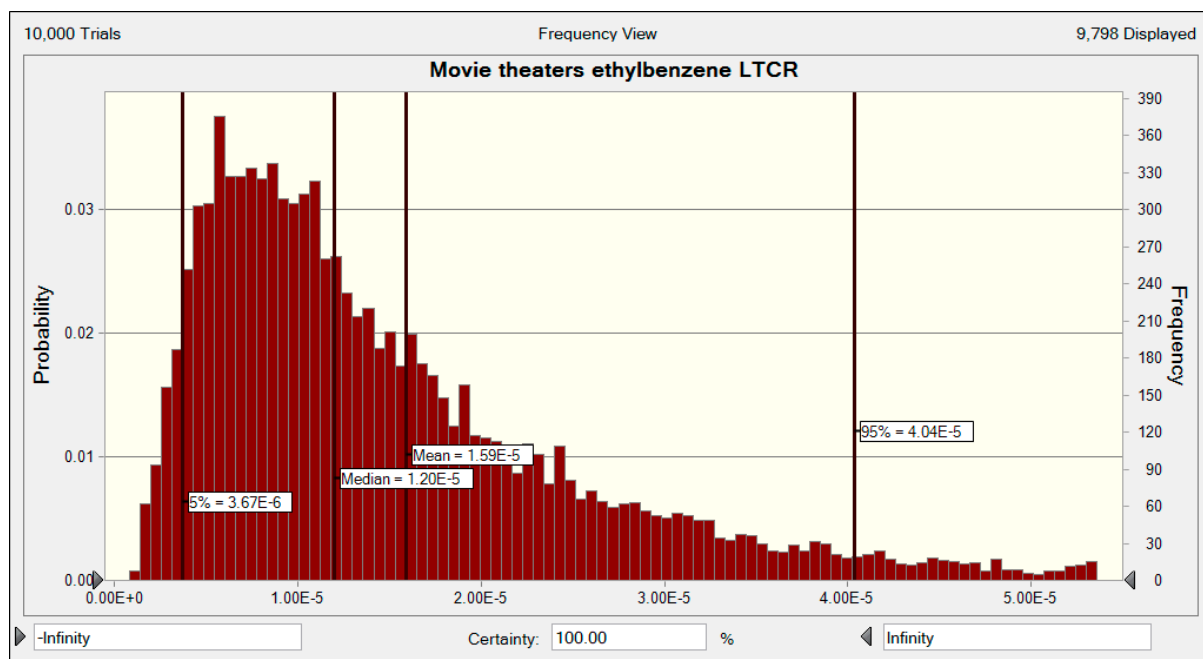
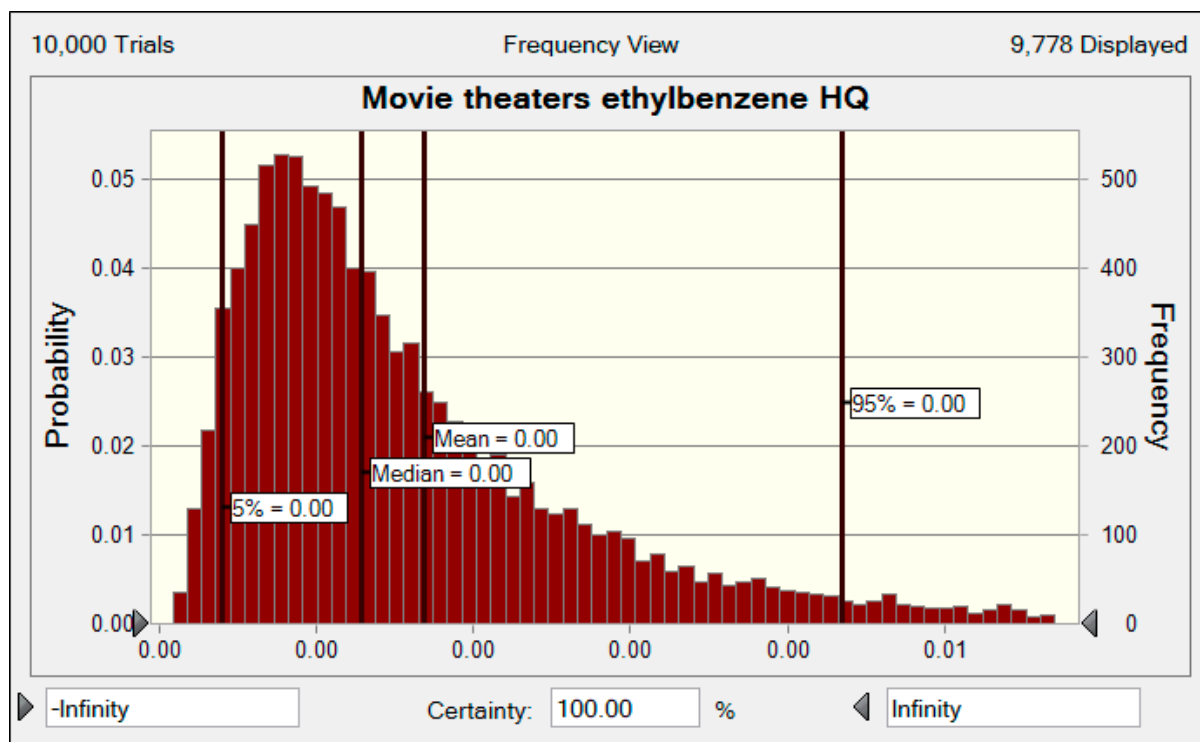
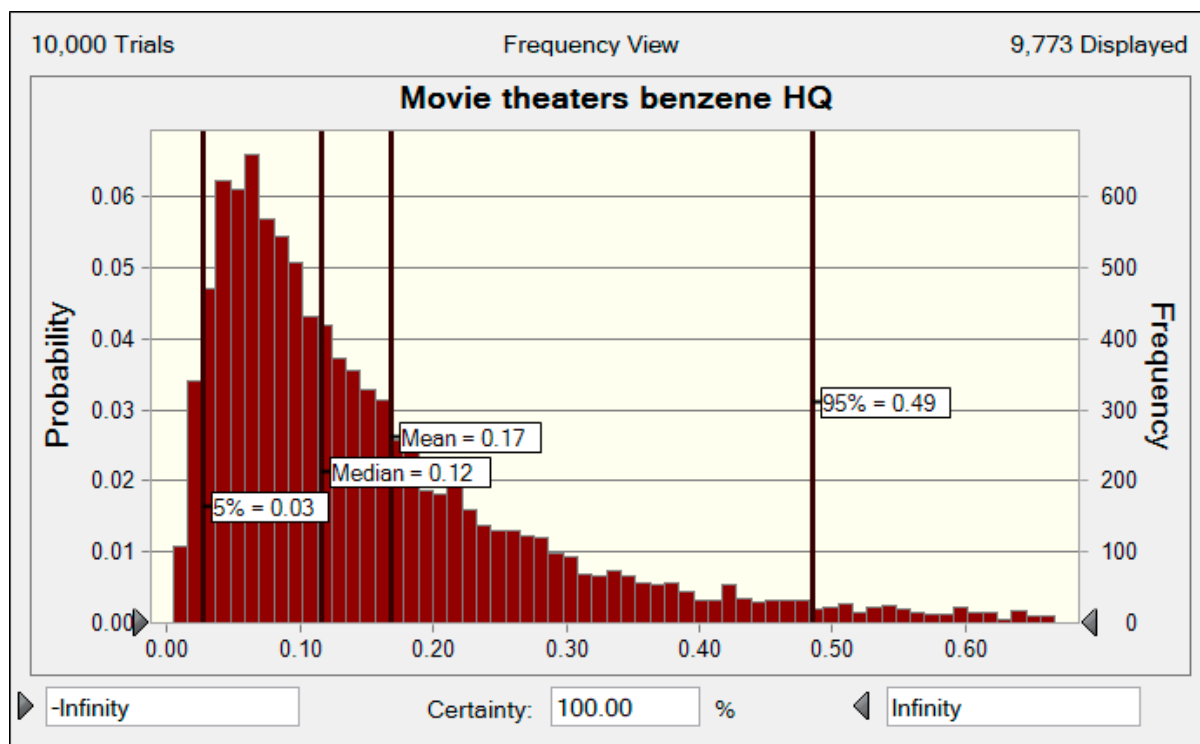


Figure S8. Probability distributions of BTEX cancer and non-cancer risk in mosques.







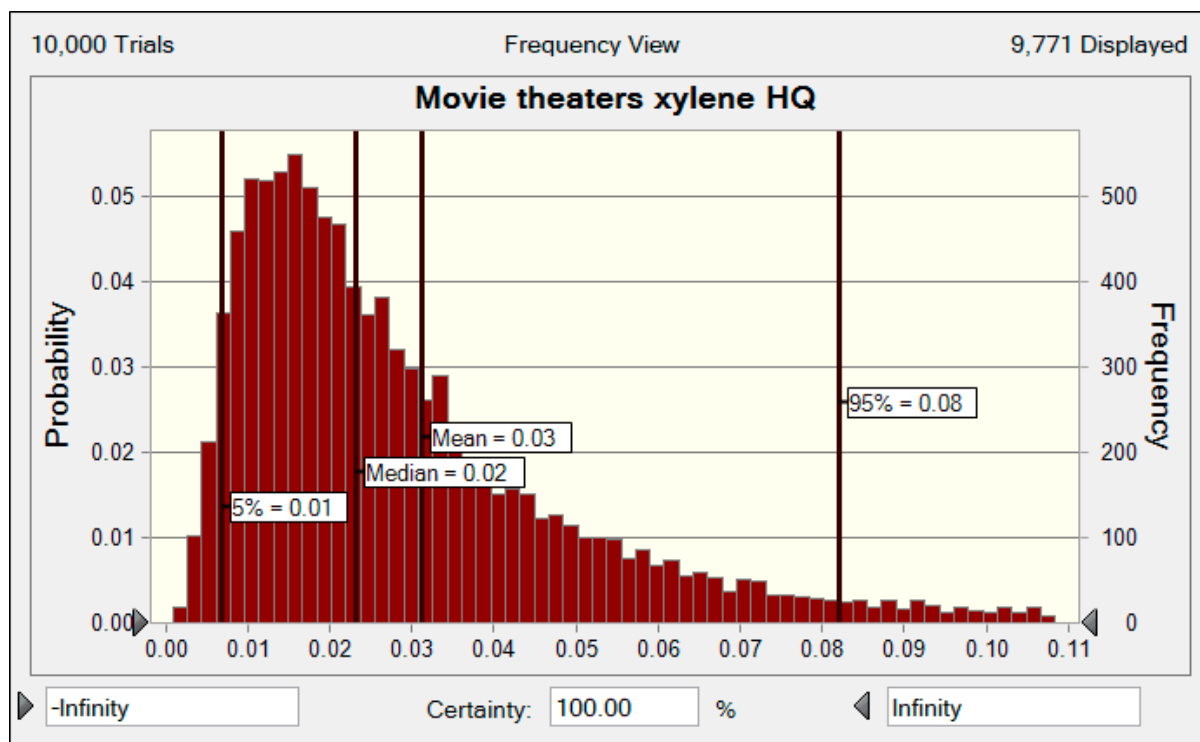
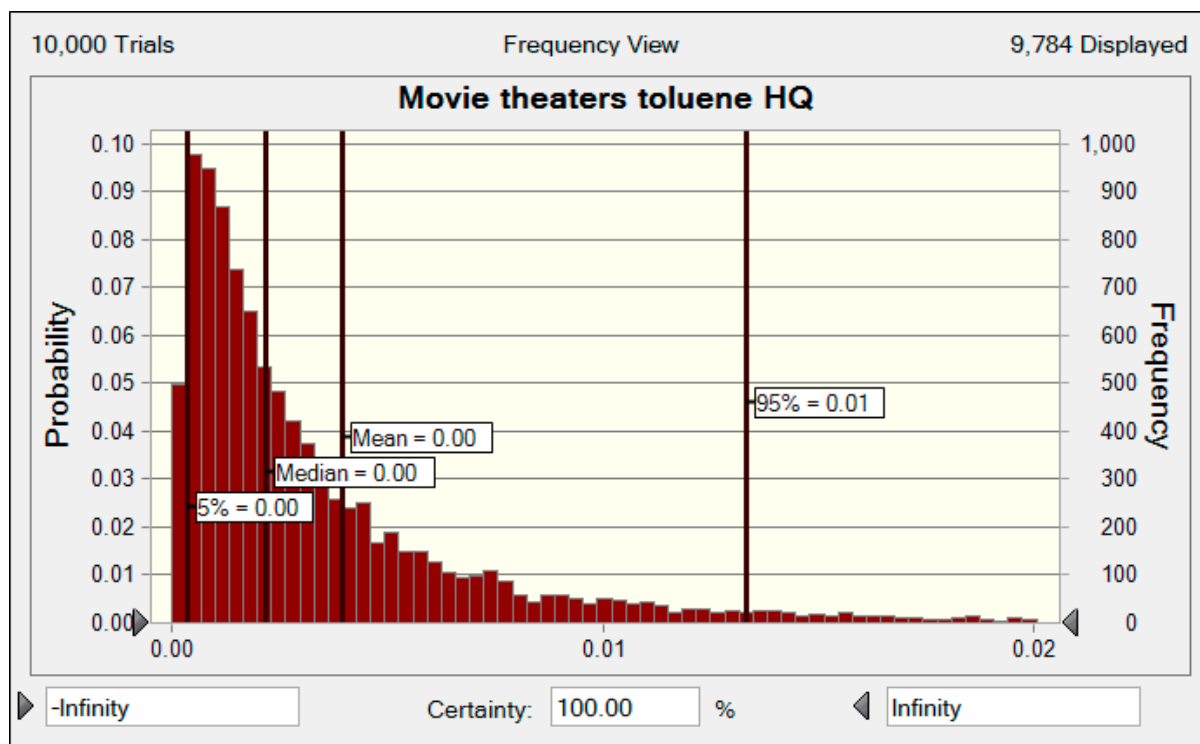
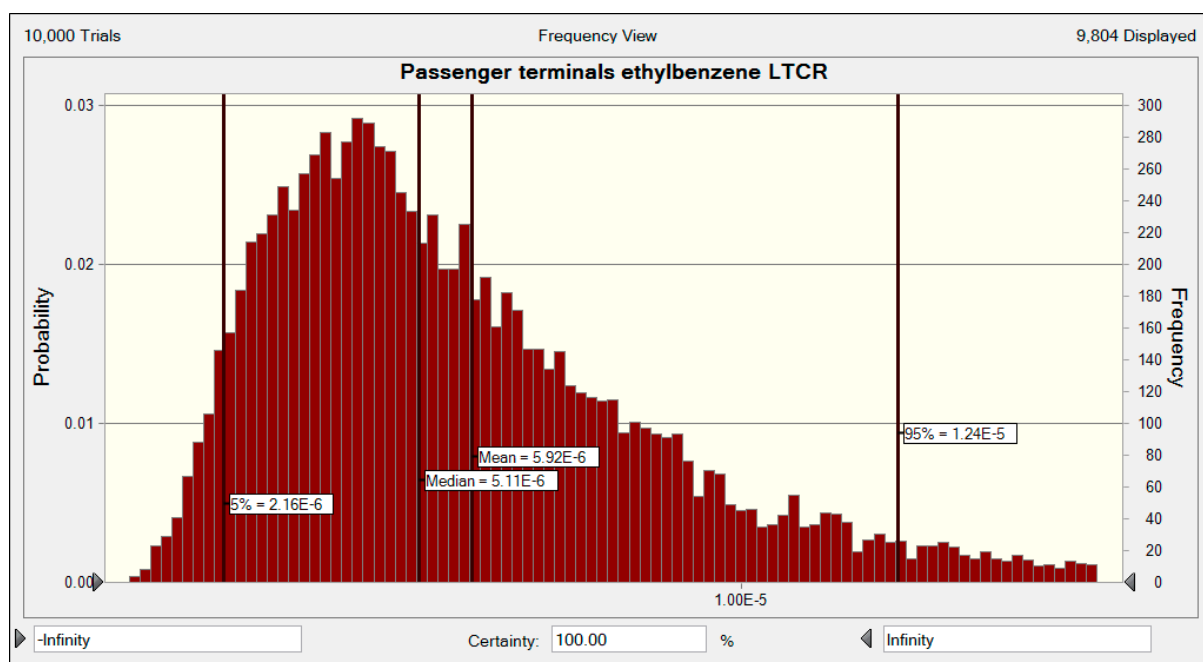
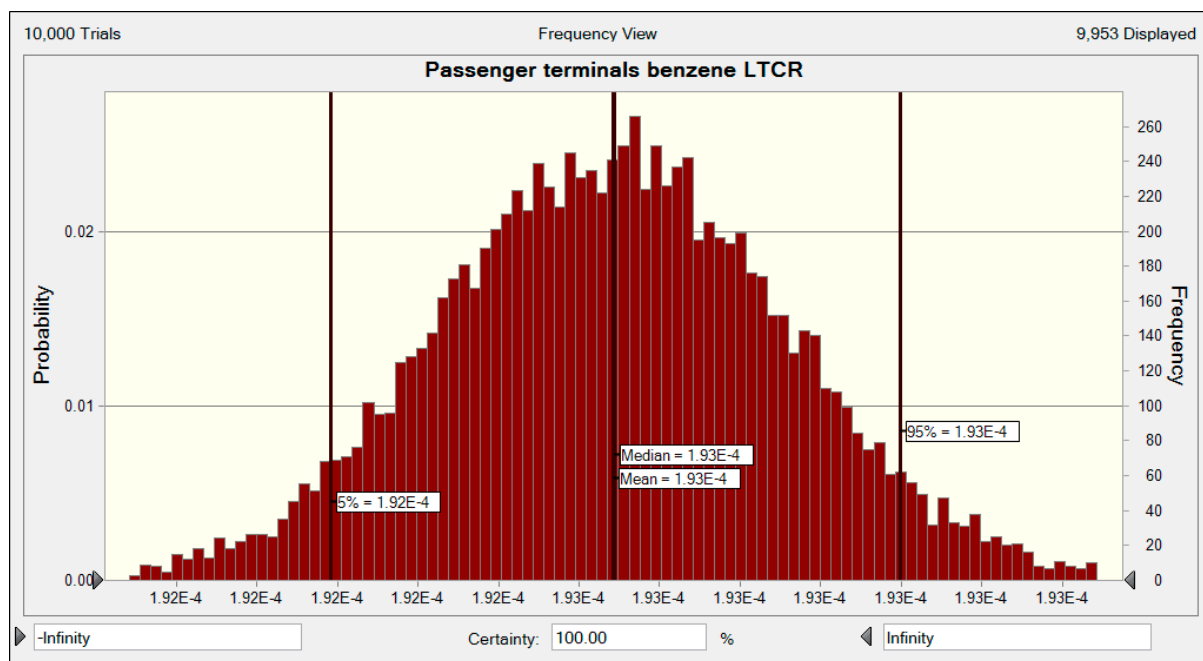
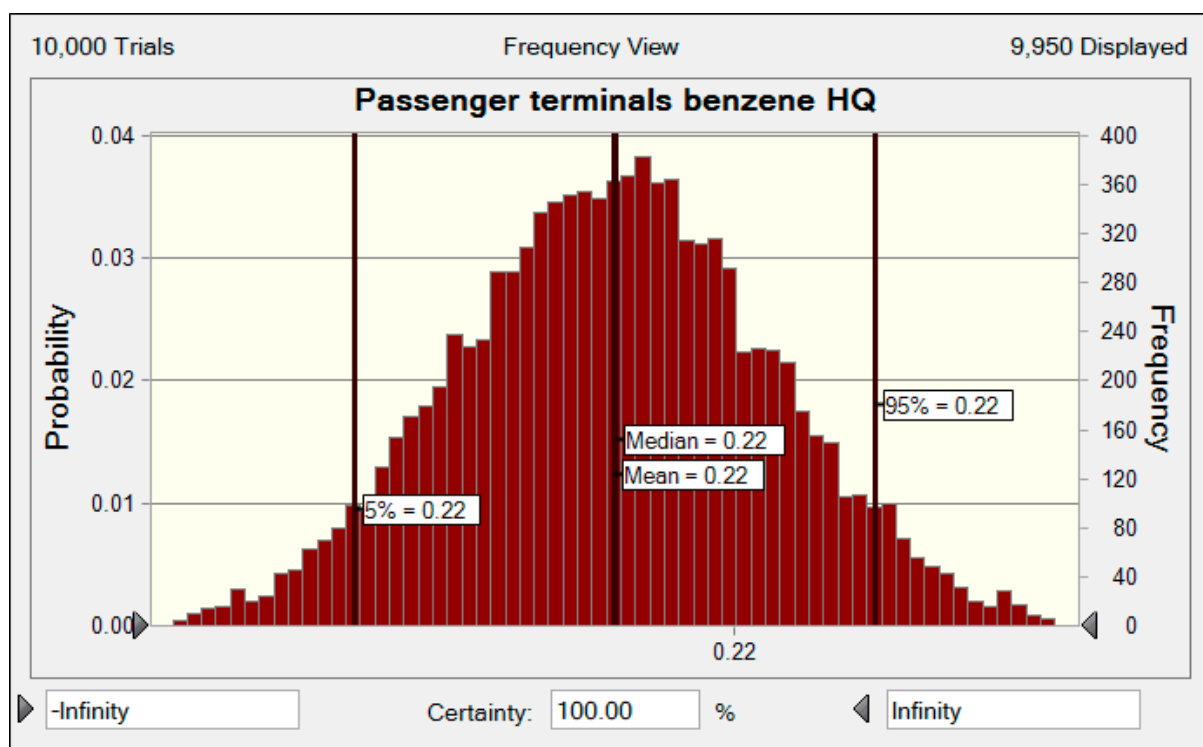
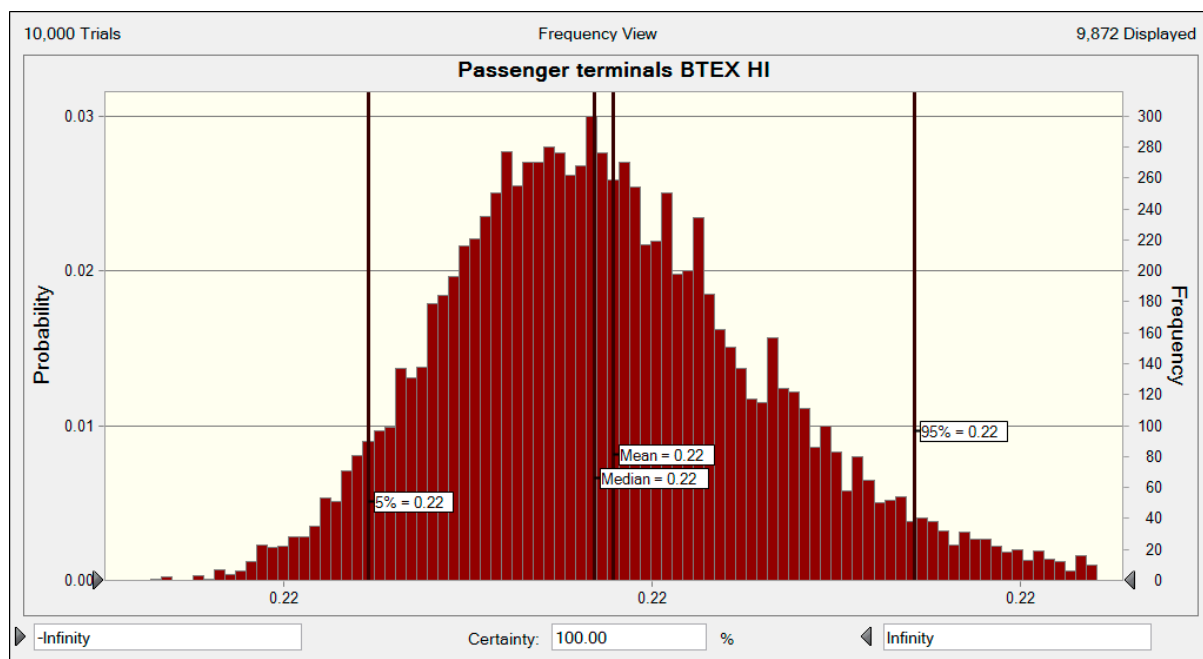
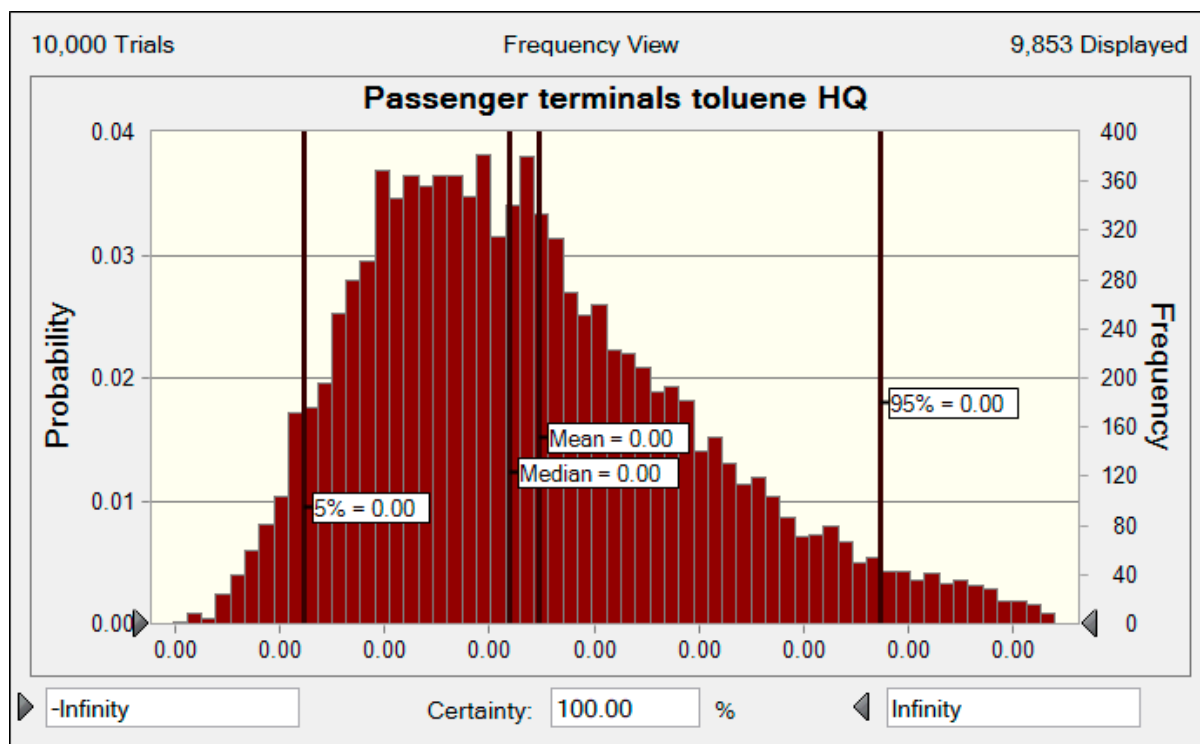
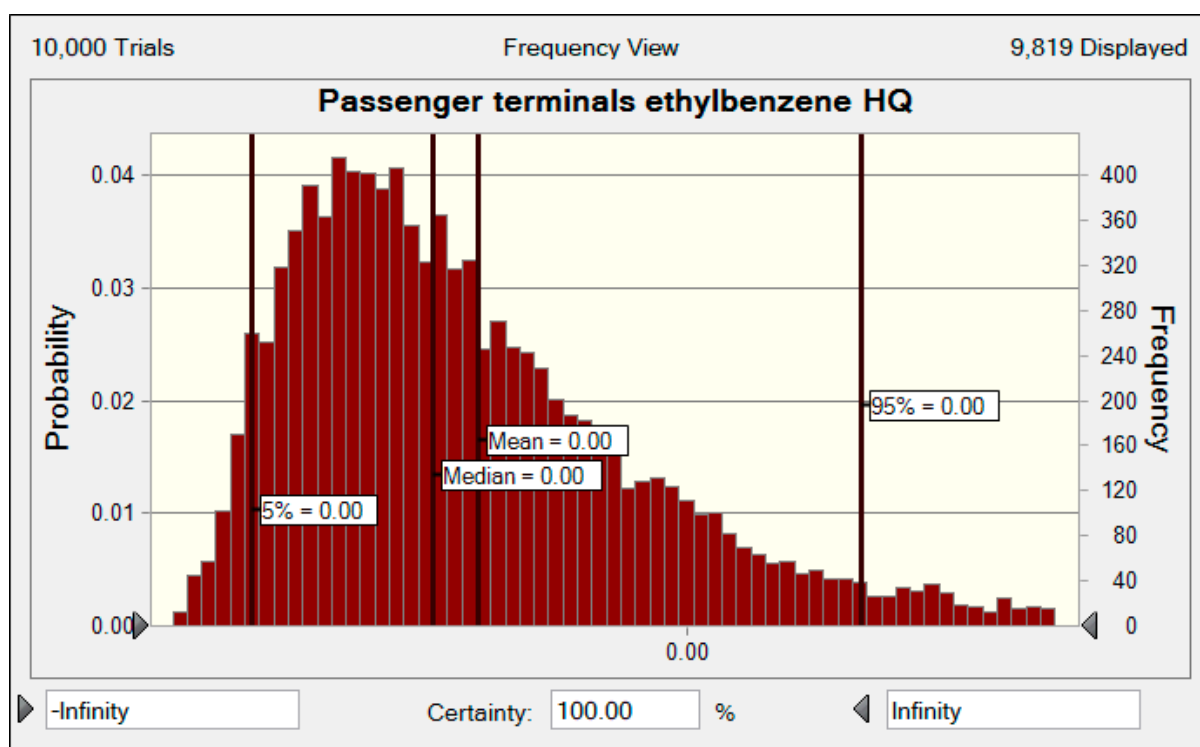


Figure S9. Probability distributions of BTEX cancer and non-cancer risk in movie theaters.









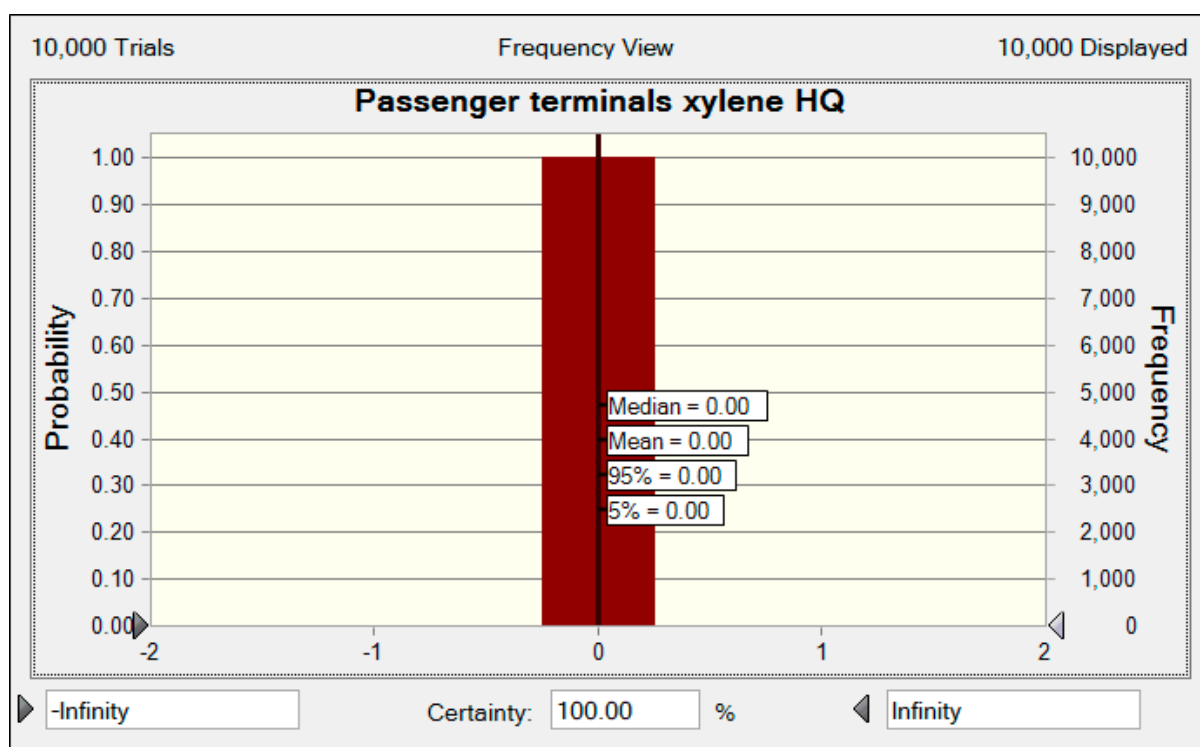
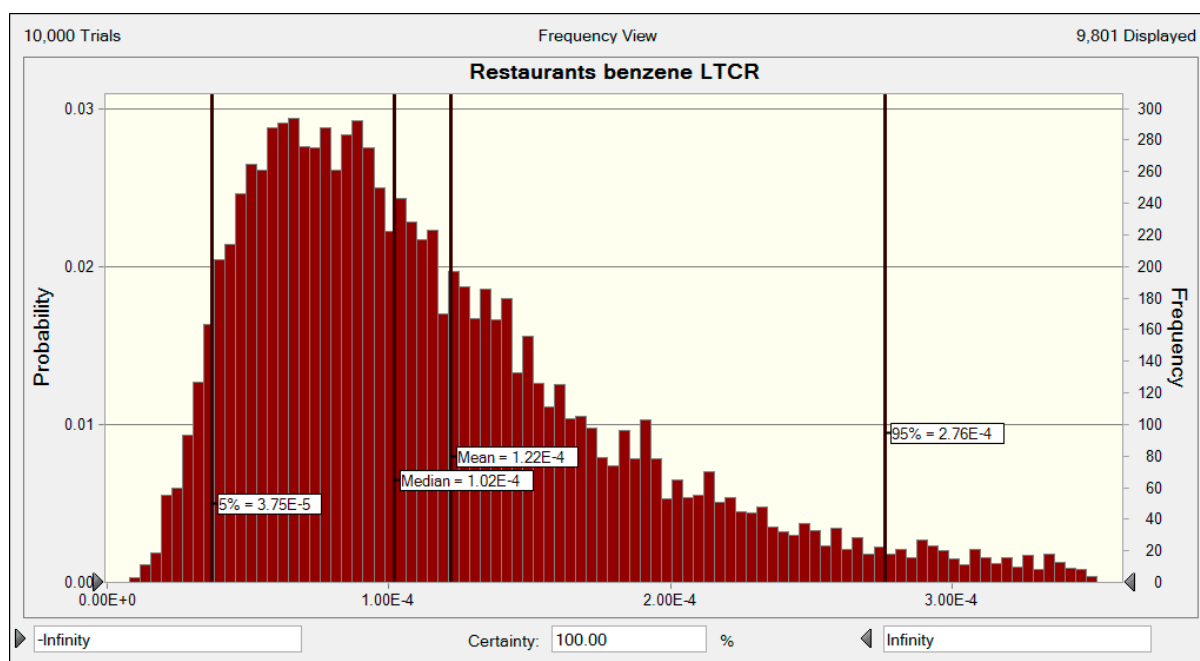
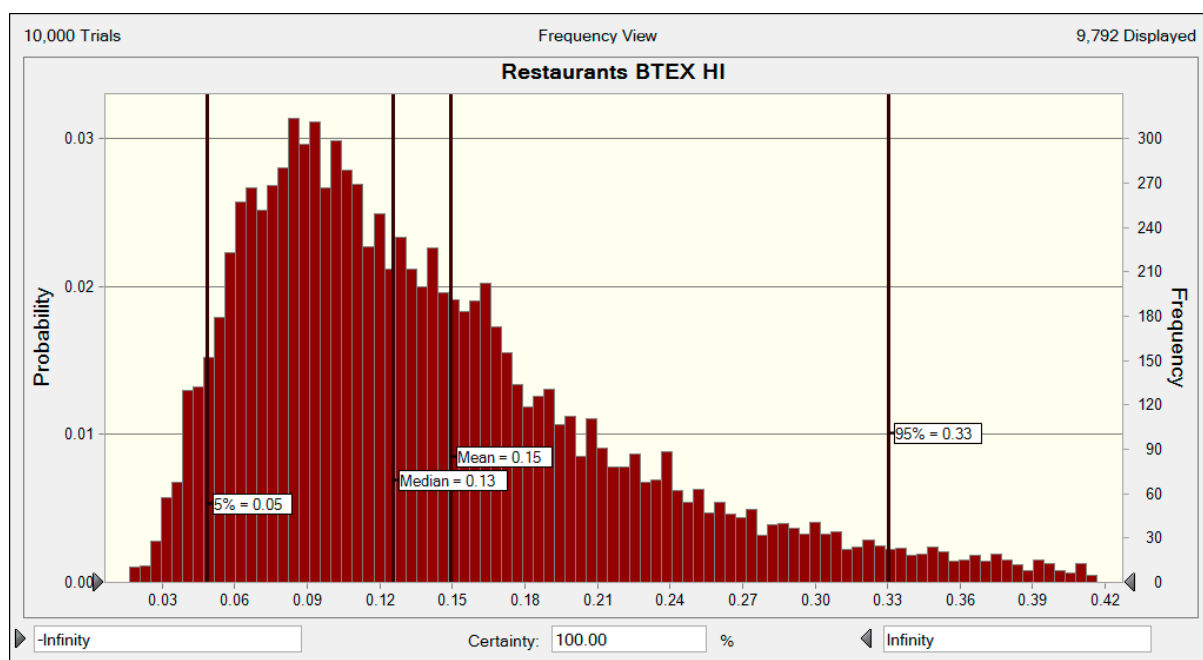
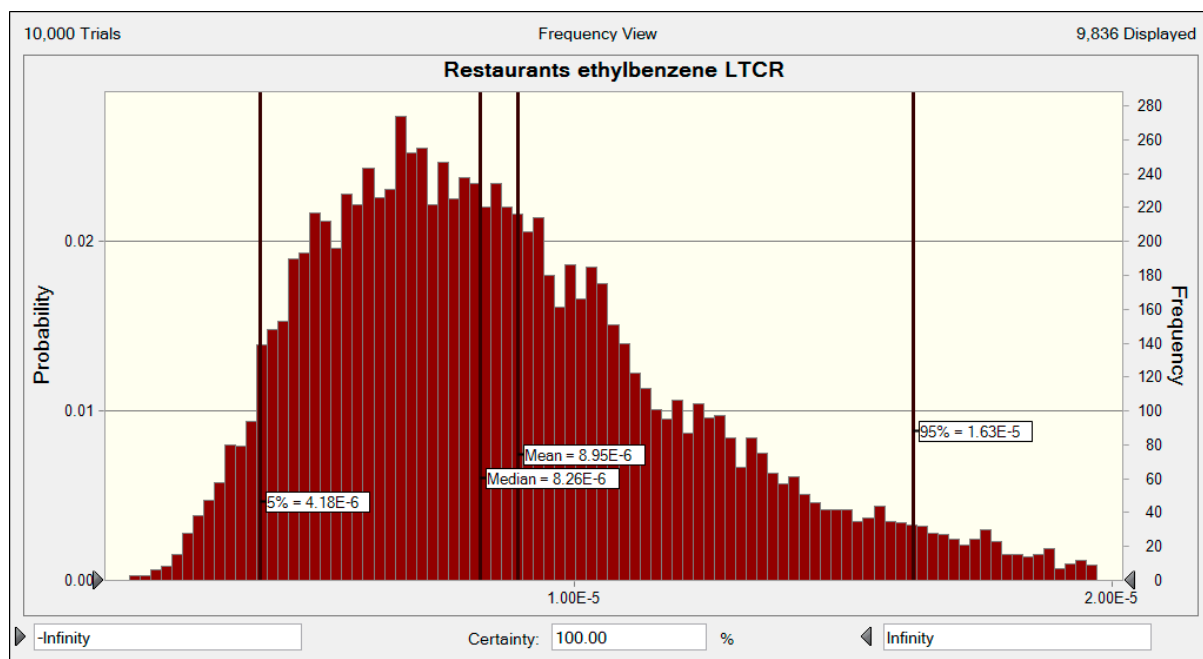
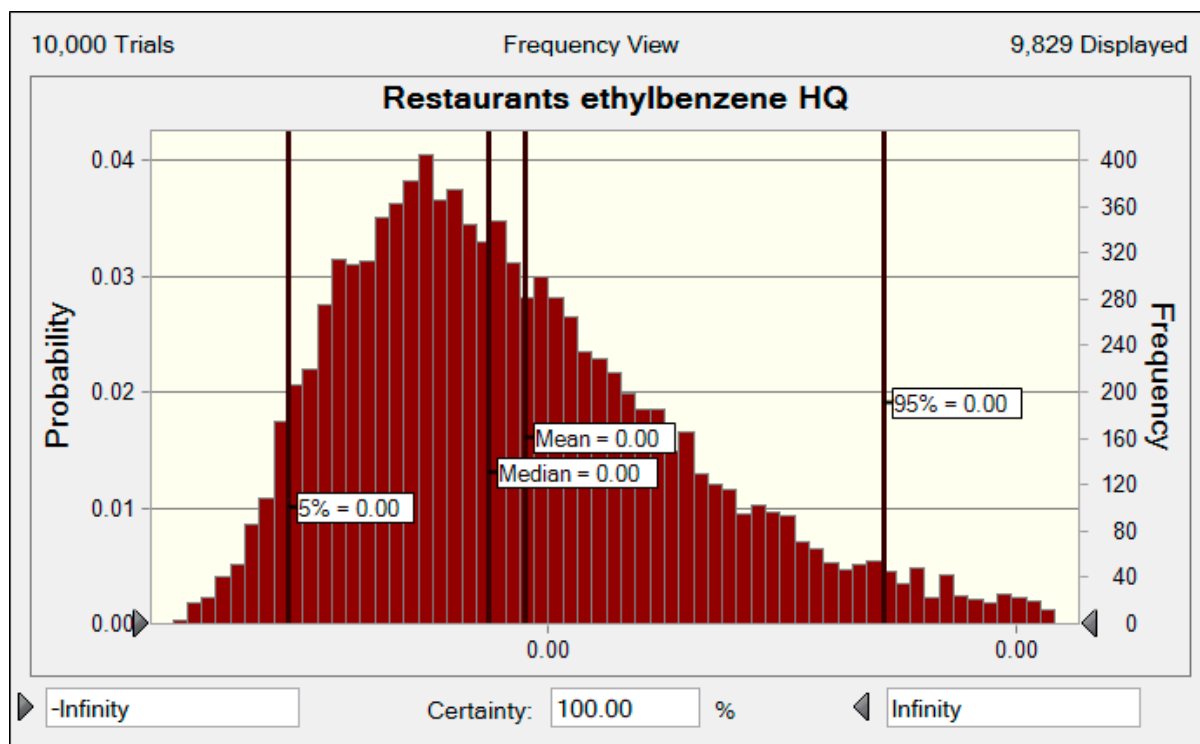
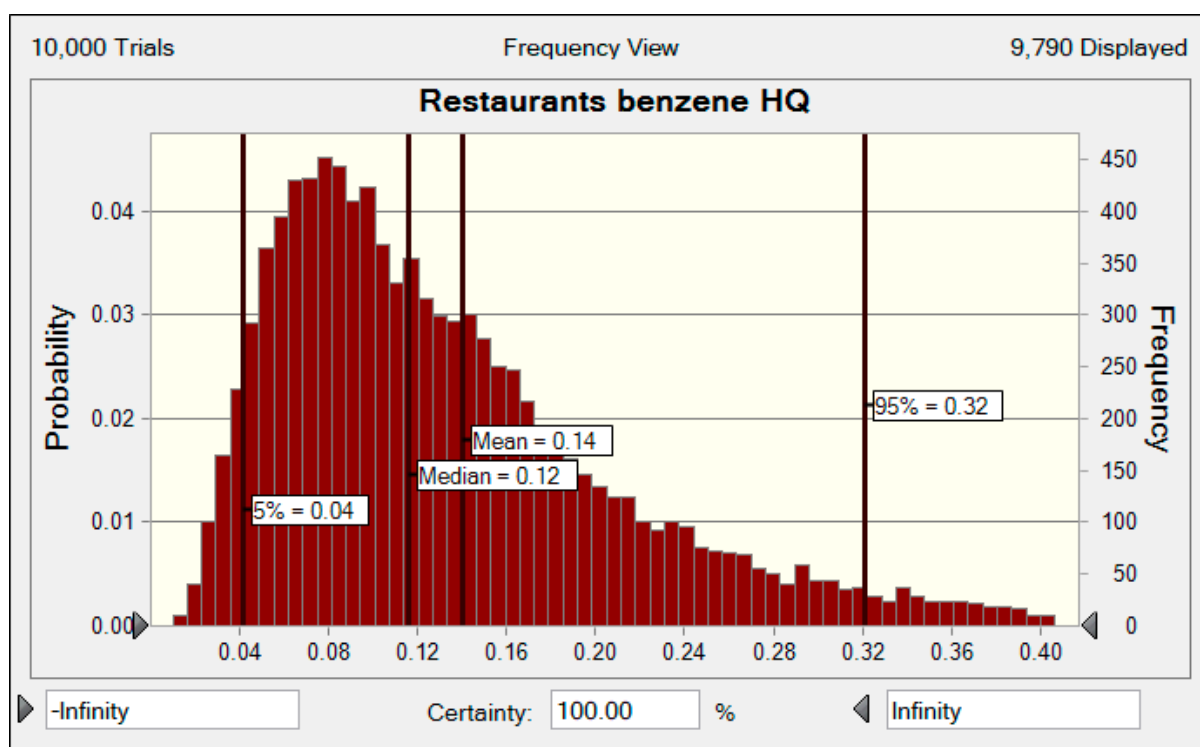


Figure S10. Probability distributions of BTEX cancer and non-cancer risk in passenger terminals.







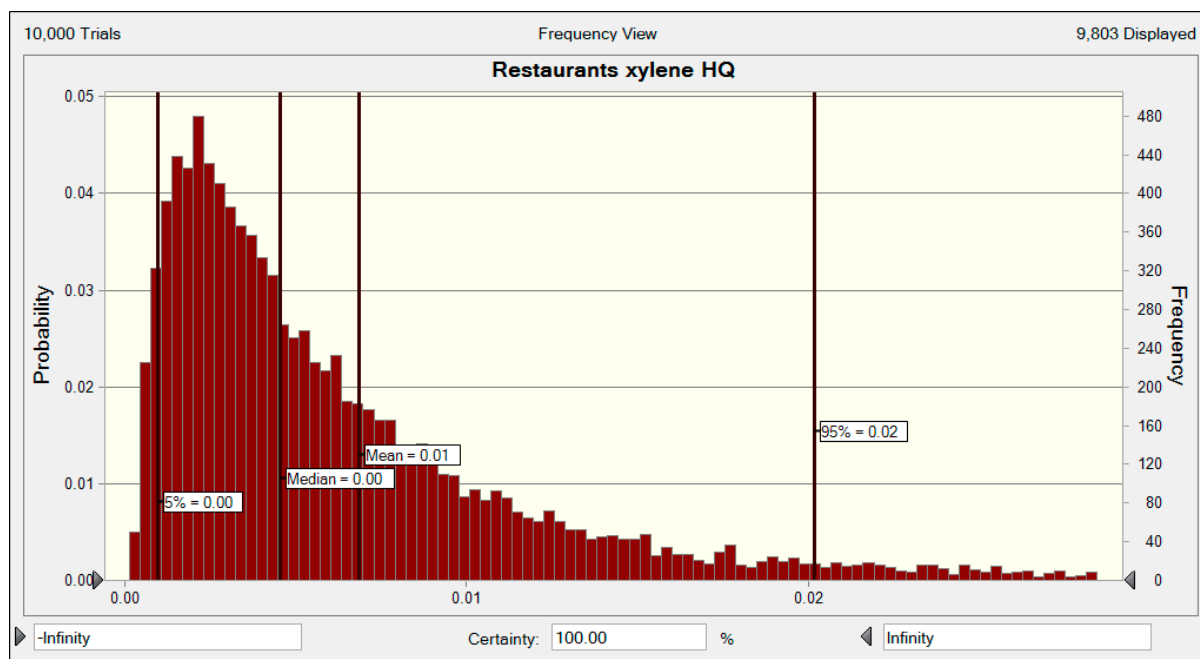
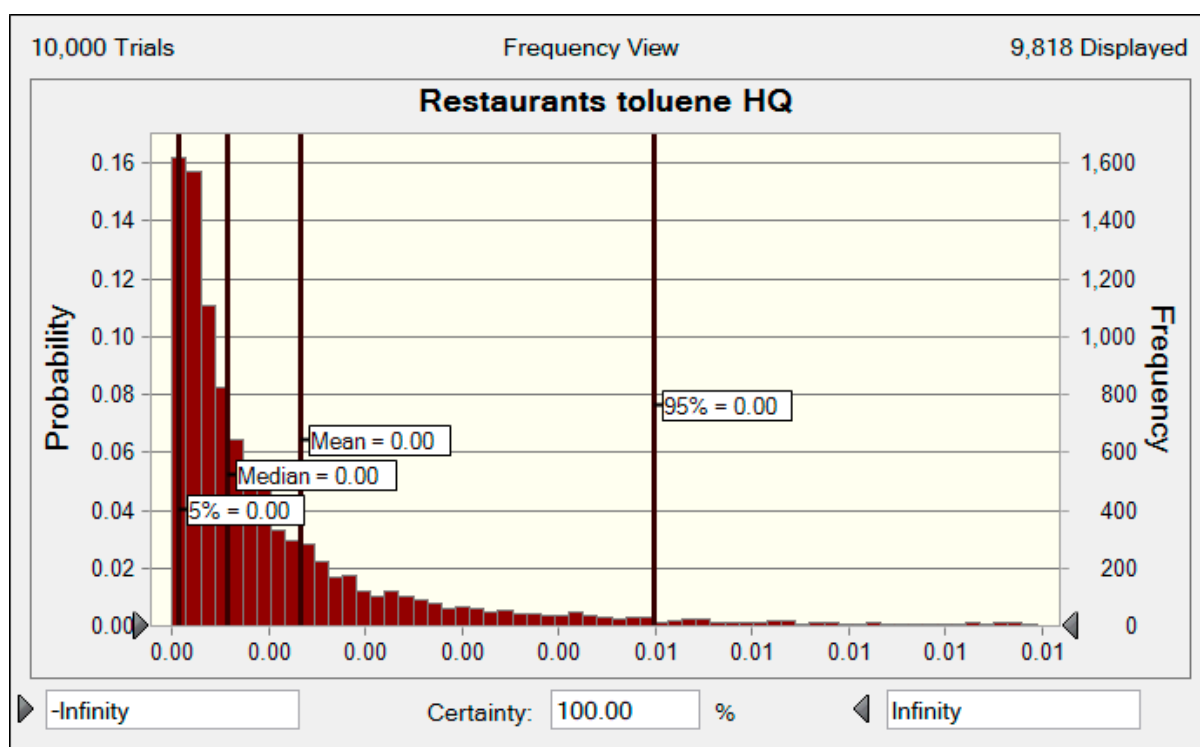
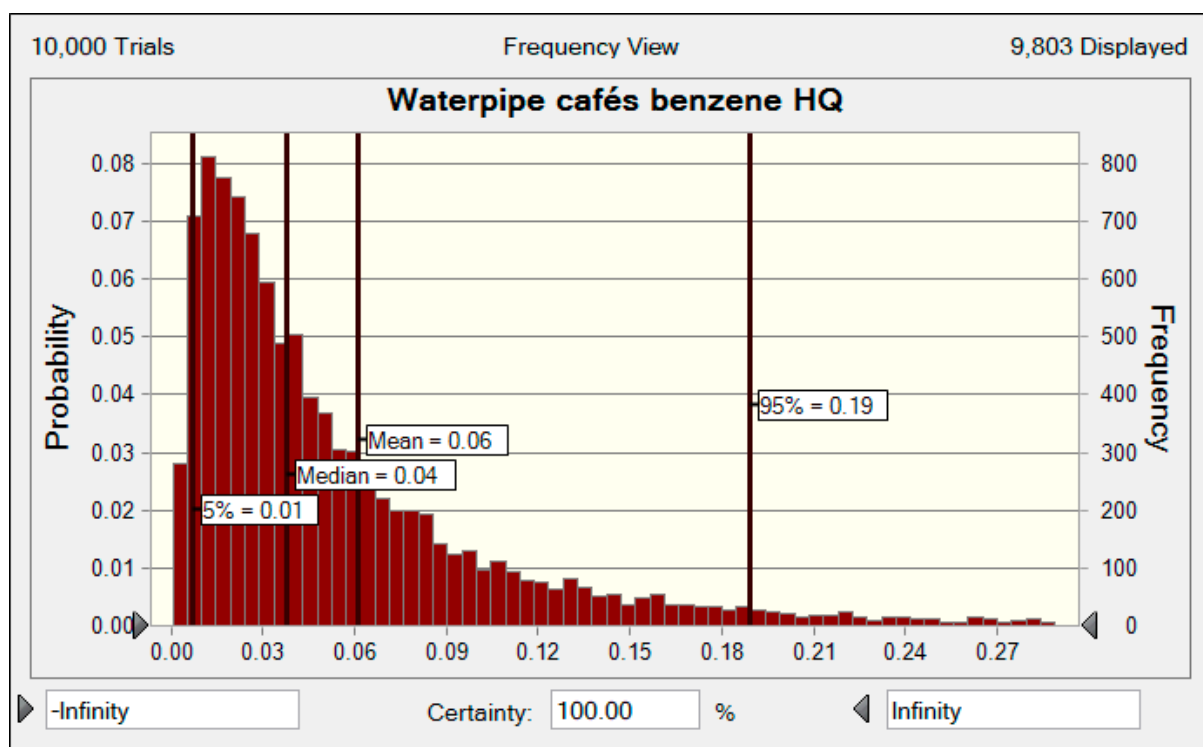
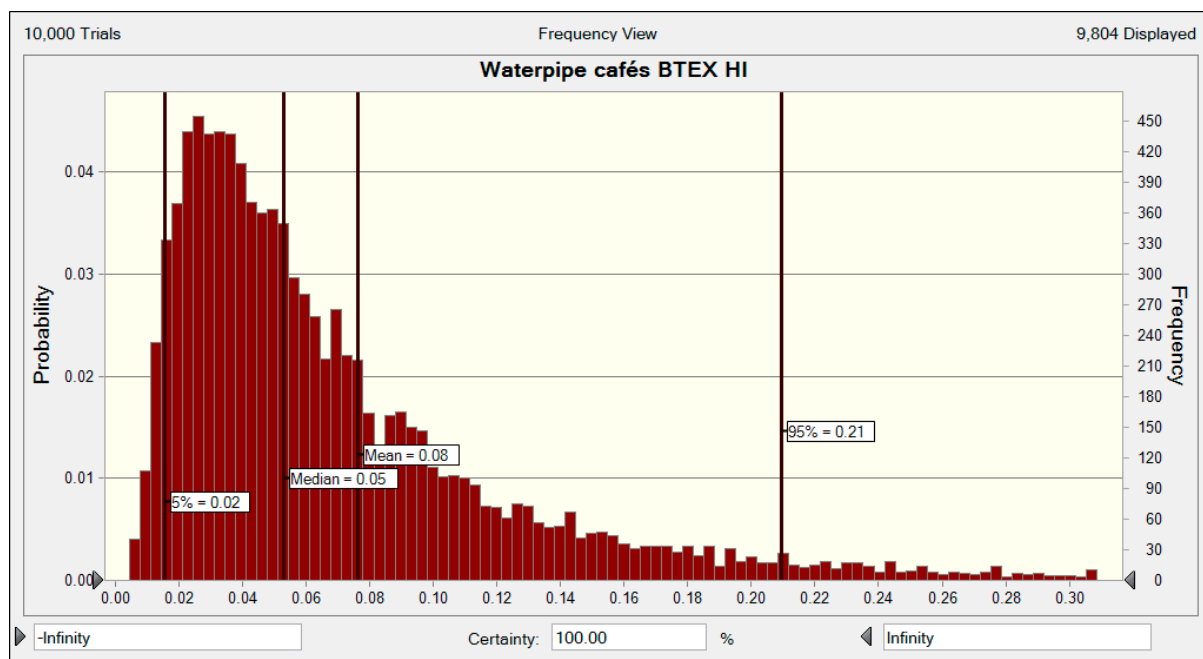
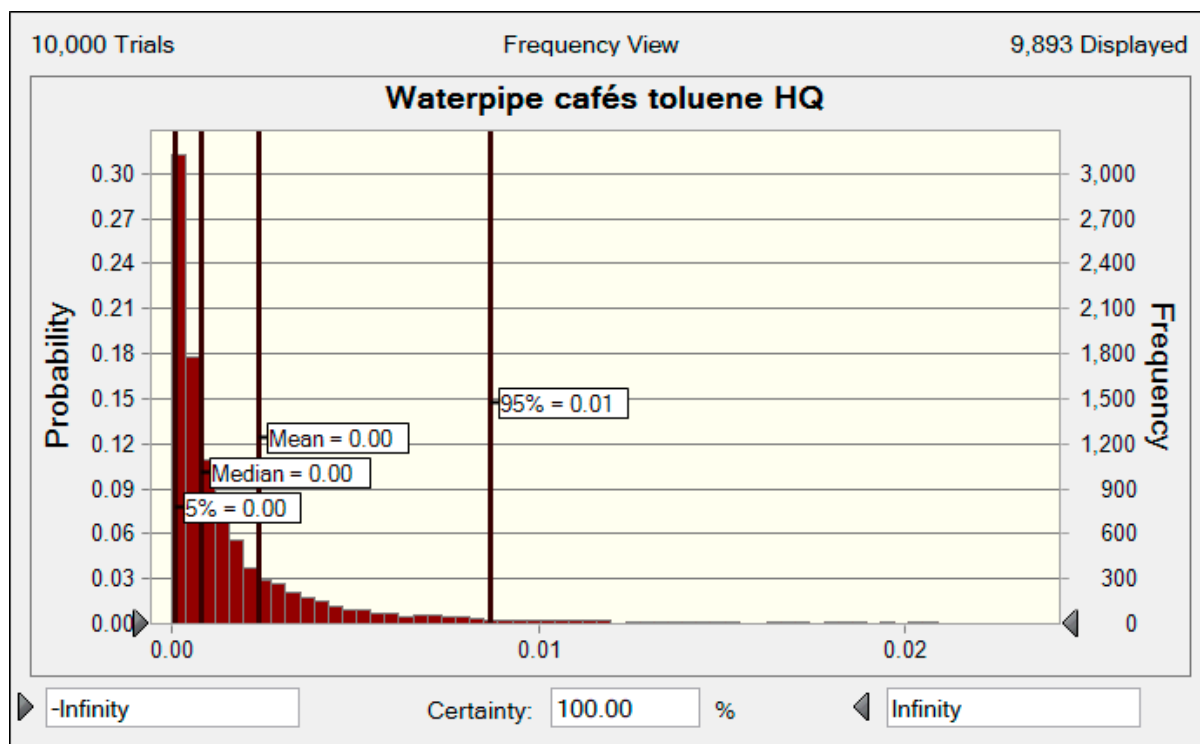
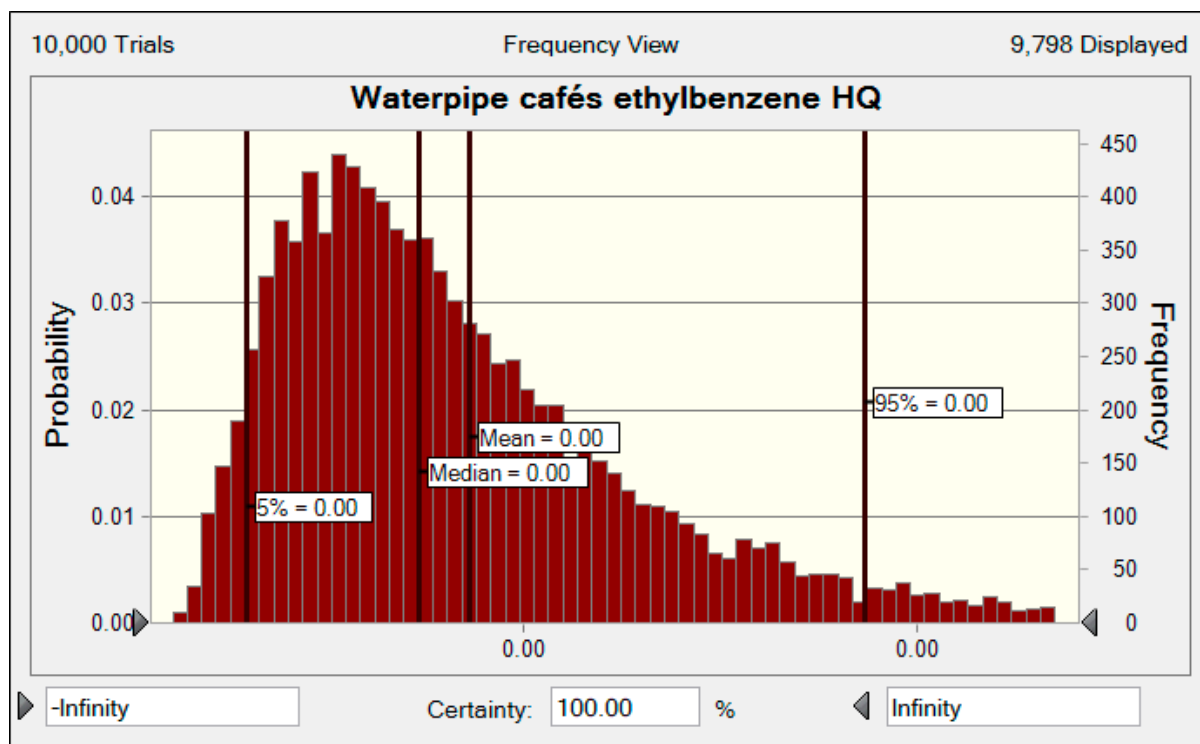
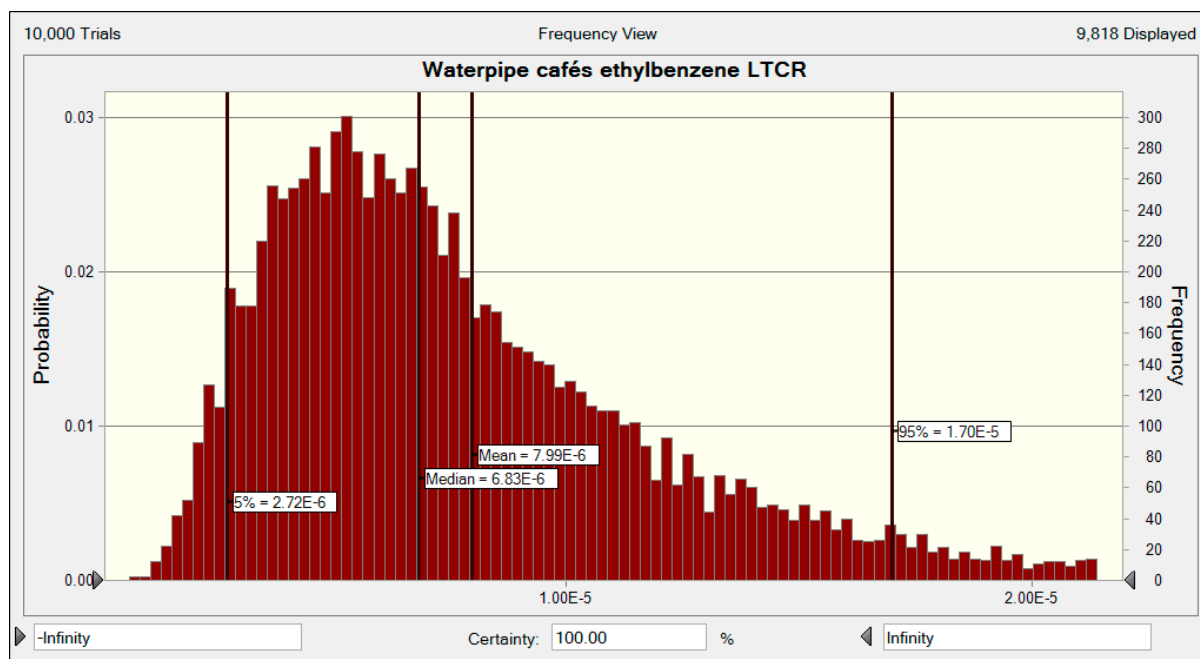
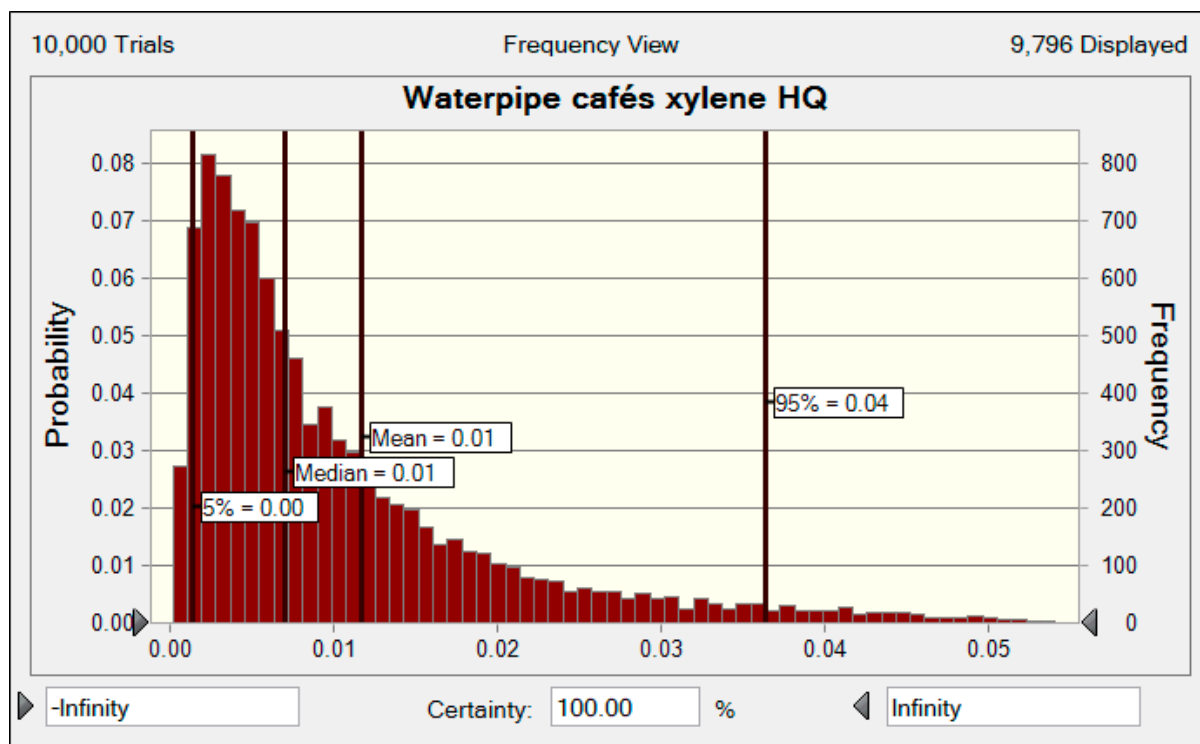


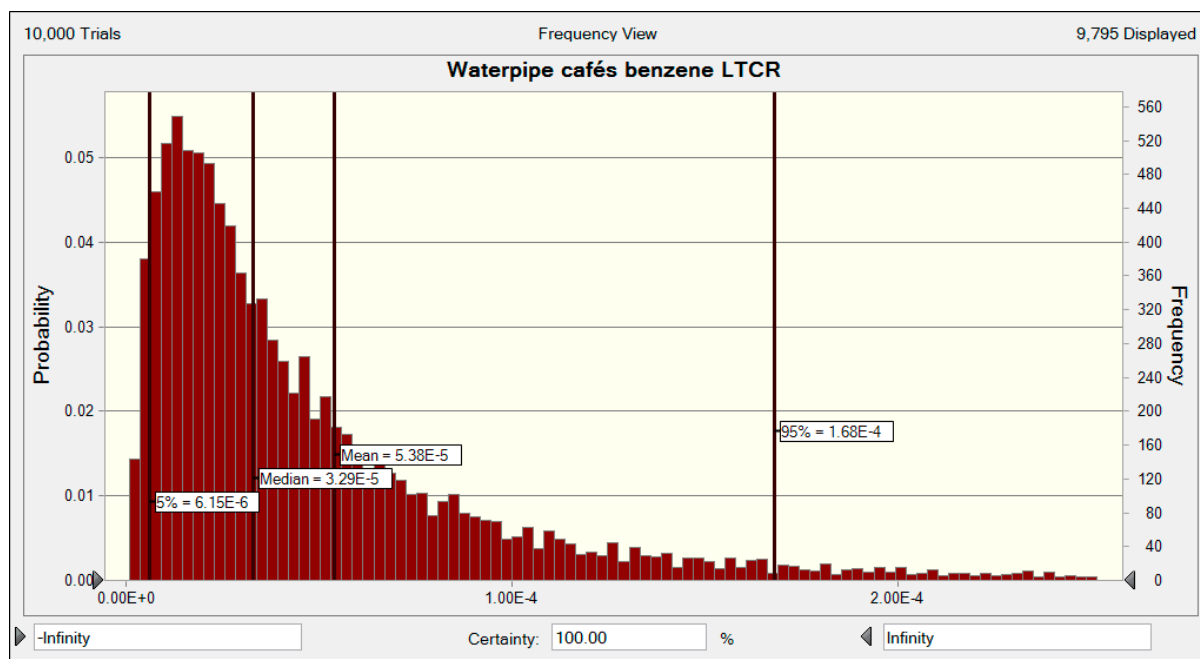
Figure S11. Probability distributions of BTEX cancer and non-cancer risk in restaurants.











**Figure S12.** Probability distributions of BTEX cancer and non-cancer risk in waterpipe cafes.