

## Gesamtauswertung Probe 1

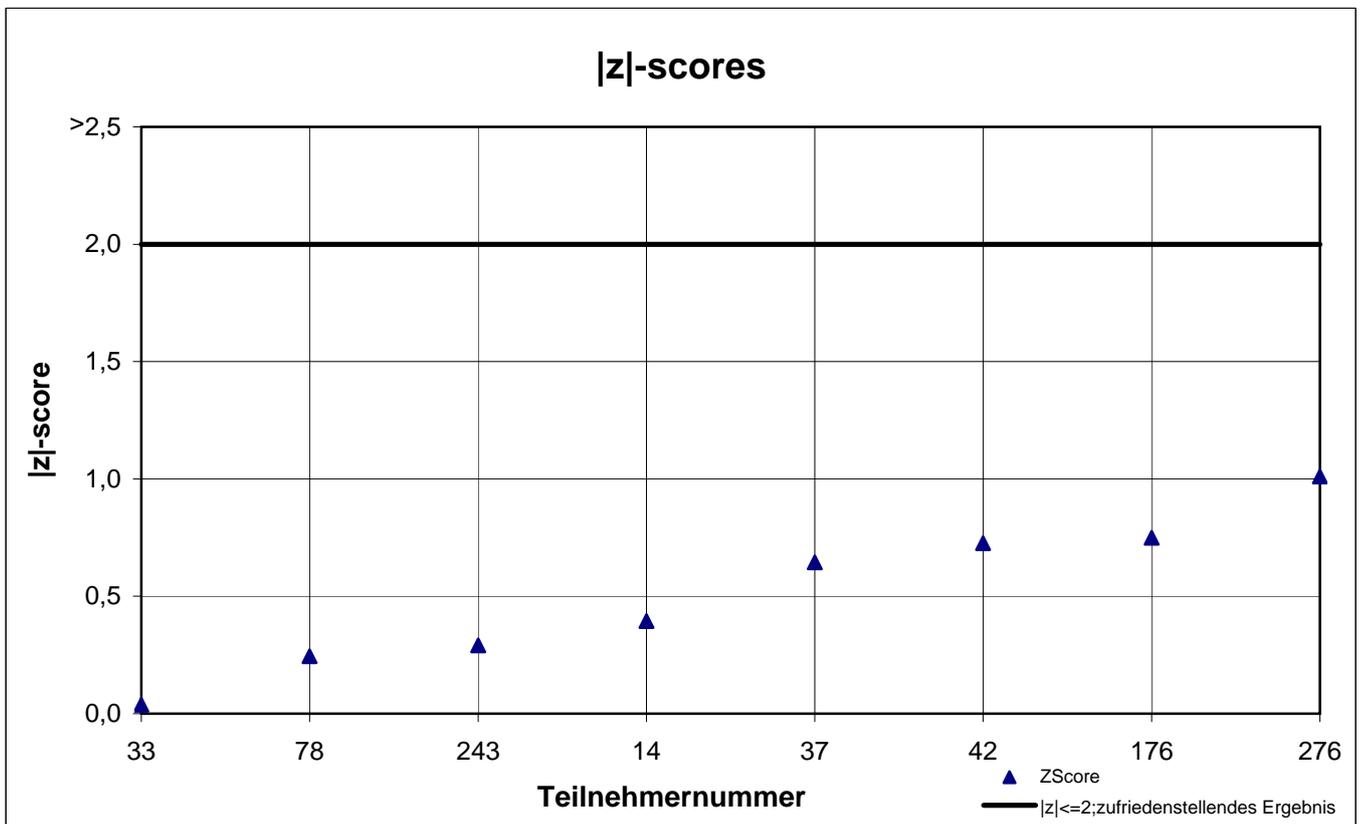
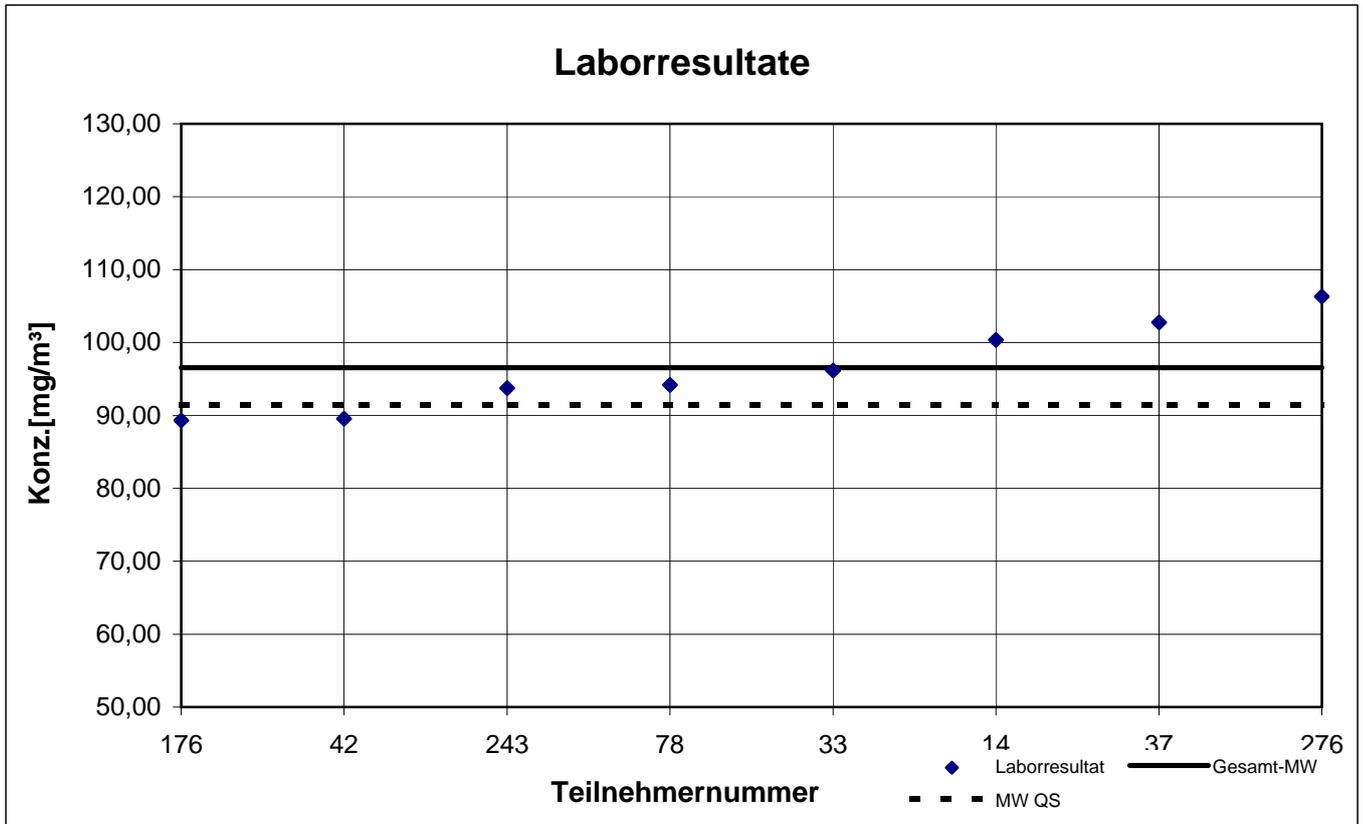
| Teilnehmer-<br>nummer | 2-Butanon                                  |            | 4-Methyl-2-pentanon                        |            | Cyclohexanon                               |            | Cyclopentanon                              |            |
|-----------------------|--|------------|--|------------|--|------------|--|------------|
|                       | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  - score |
| 14                    | 100,3                                      | 0,4        | 52,45                                      | 0,3        | 105,8                                      | 16,4       | 32,46                                      | 6,2        |
| 33                    | 96,17                                      | 0,0        | 49,27                                      | 0,3        | 39,33                                      | 0,2        | 90,30                                      | 0,6        |
| 37                    | 102,8                                      | 0,6        | 50,91                                      | 0,0        | 41,55                                      | 0,4        | 89,99                                      | 0,5        |
| 42                    | 89,53                                      | 0,7        | 49,29                                      | 0,3        | 39,68                                      | 0,1        | 84,53                                      | 0,1        |
| 78                    | 94,17                                      | 0,2        | 49,81                                      | 0,2        | 42,17                                      | 0,5        | 88,64                                      | 0,4        |
| 176                   | 89,30                                      | 0,7        | 48,85                                      | 0,4        | 33,15                                      | 1,7        | 69,85                                      | 1,8        |
| 243                   | 93,73                                      | 0,3        | 51,10                                      | 0,1        | 34,27                                      | 1,4        | 68,73                                      | 2,0        |
| 267                   | k.A.                                       | k.A.       | k.A.                                       | k.A.       | k.A.                                       | k.A.       | k.A.                                       | k.A.       |
| 276                   | 106,3                                      | 1,0        | 55,00                                      | 0,8        | 50,23                                      | 2,5        | 106,8                                      | 2,5        |

Die mit  gekennzeichneten Felder sind Ausreißer!

|   | 2-Butanon | 4-Methyl-2-<br>pentanon | Cyclo-<br>hexanon | Cyclo-<br>pentanon |
|---|-----------|-------------------------|-------------------|--------------------|
| Gesamtmittelwert $c_k$ [mg/m <sup>3</sup> ]       | 96,54     | 50,83                   | 40,06             | 85,55              |
| Standardabweichung $S_k$ [mg/m <sup>3</sup> ]     | 6,137     | 2,065                   | 5,659             | 13,117             |
| rel. Standardabweichung [%]                       | 6,36      | 4,06                    | 14,13             | 15,33              |
| Mittelwert Qualitätsicherung [mg/m <sup>3</sup> ] | 91,40     | 47,40                   | 37,30             | 86,50              |

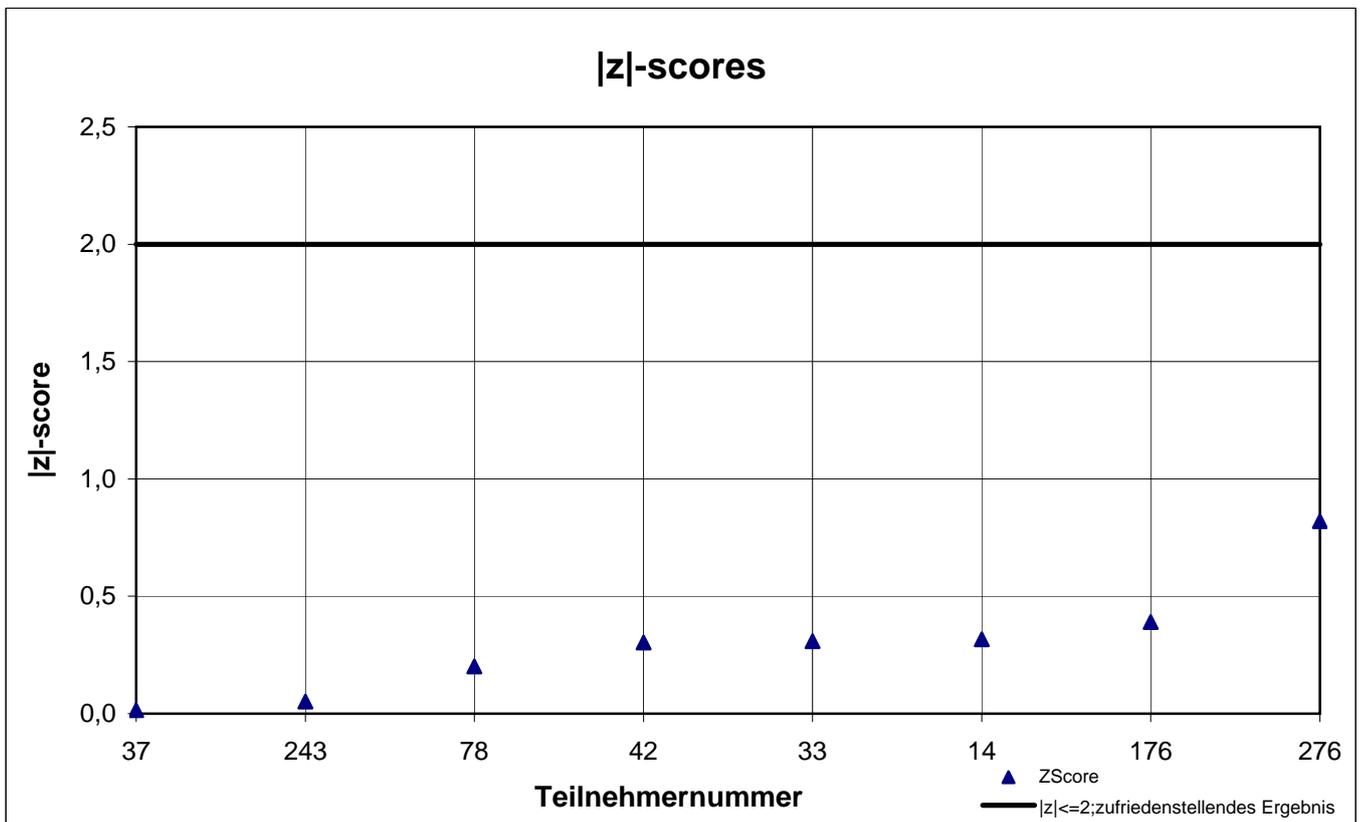
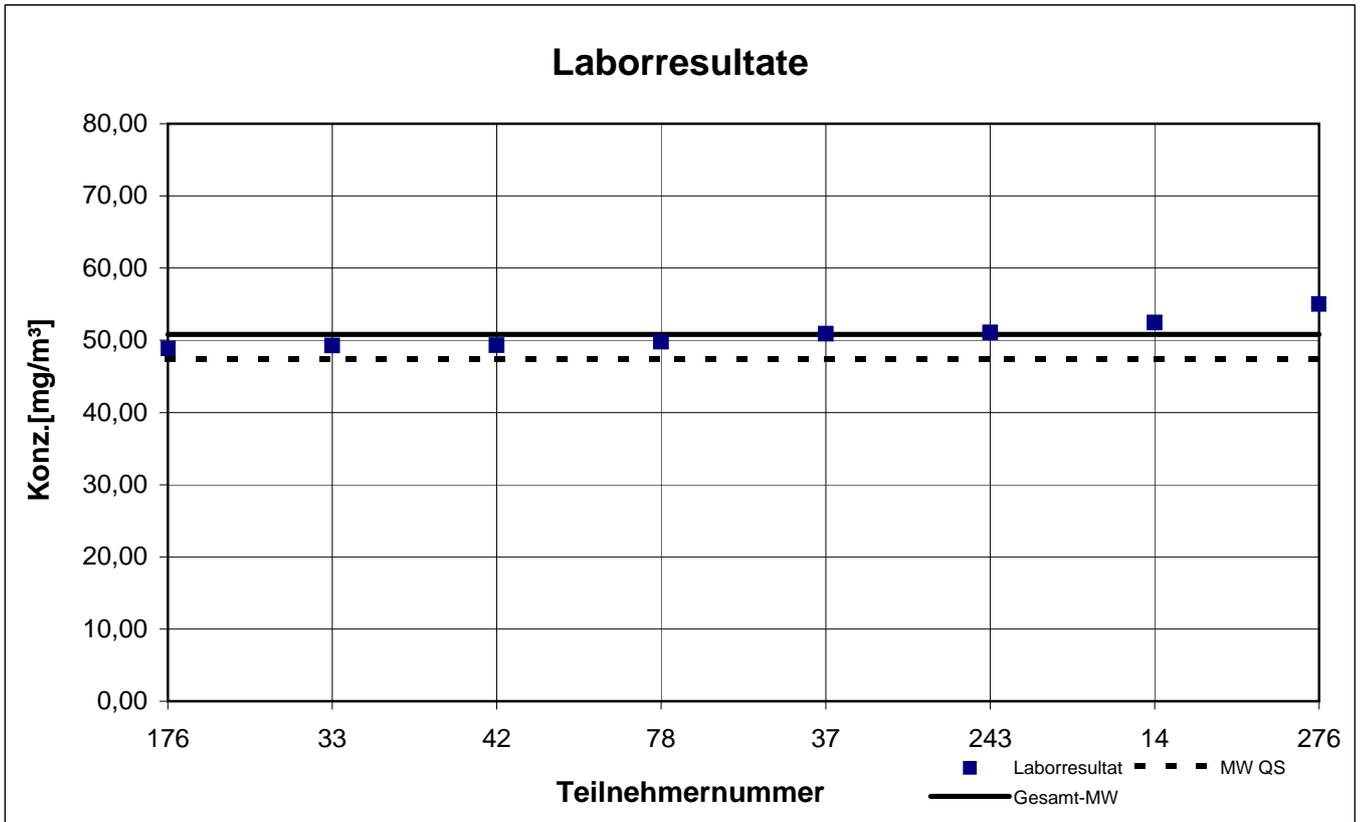
# Probe 1

## 2-Butanon



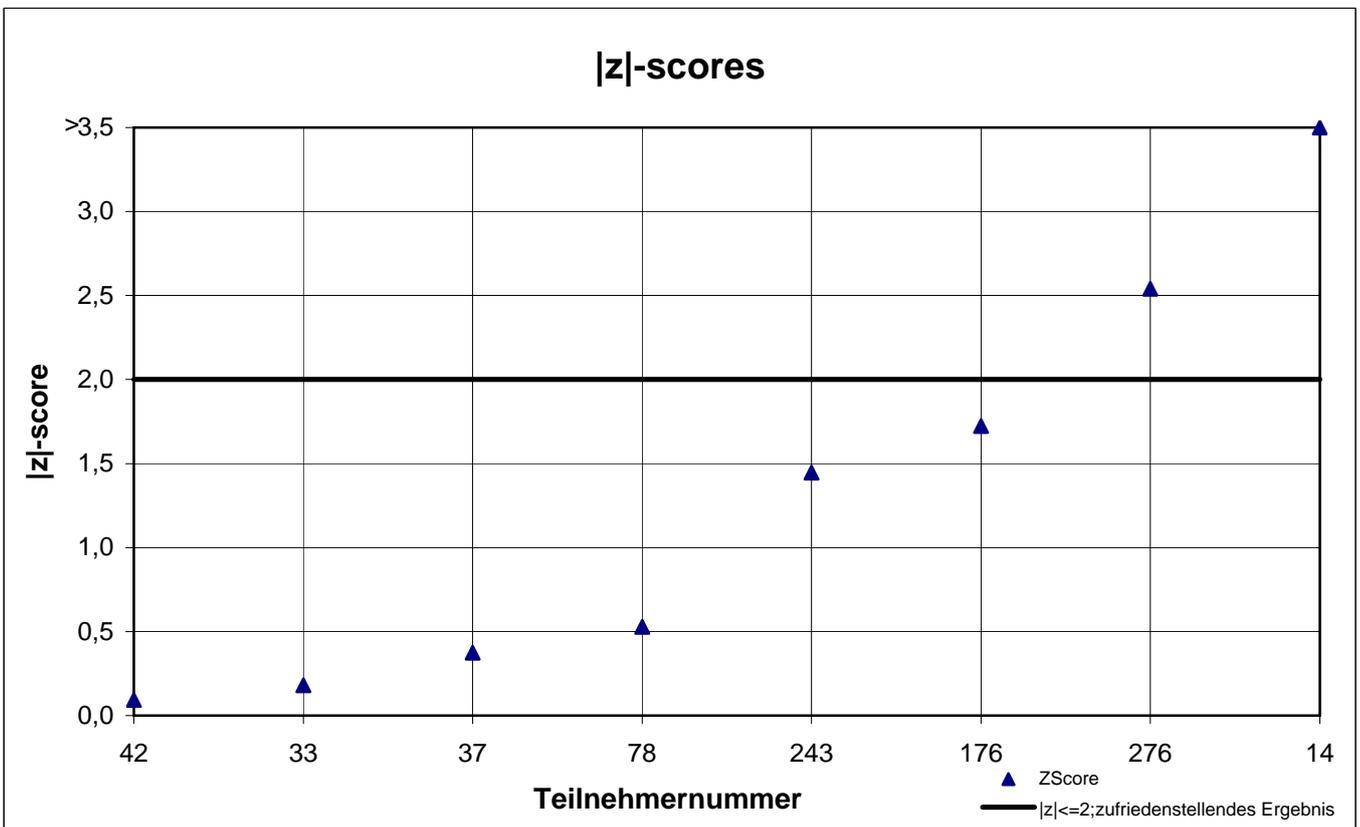
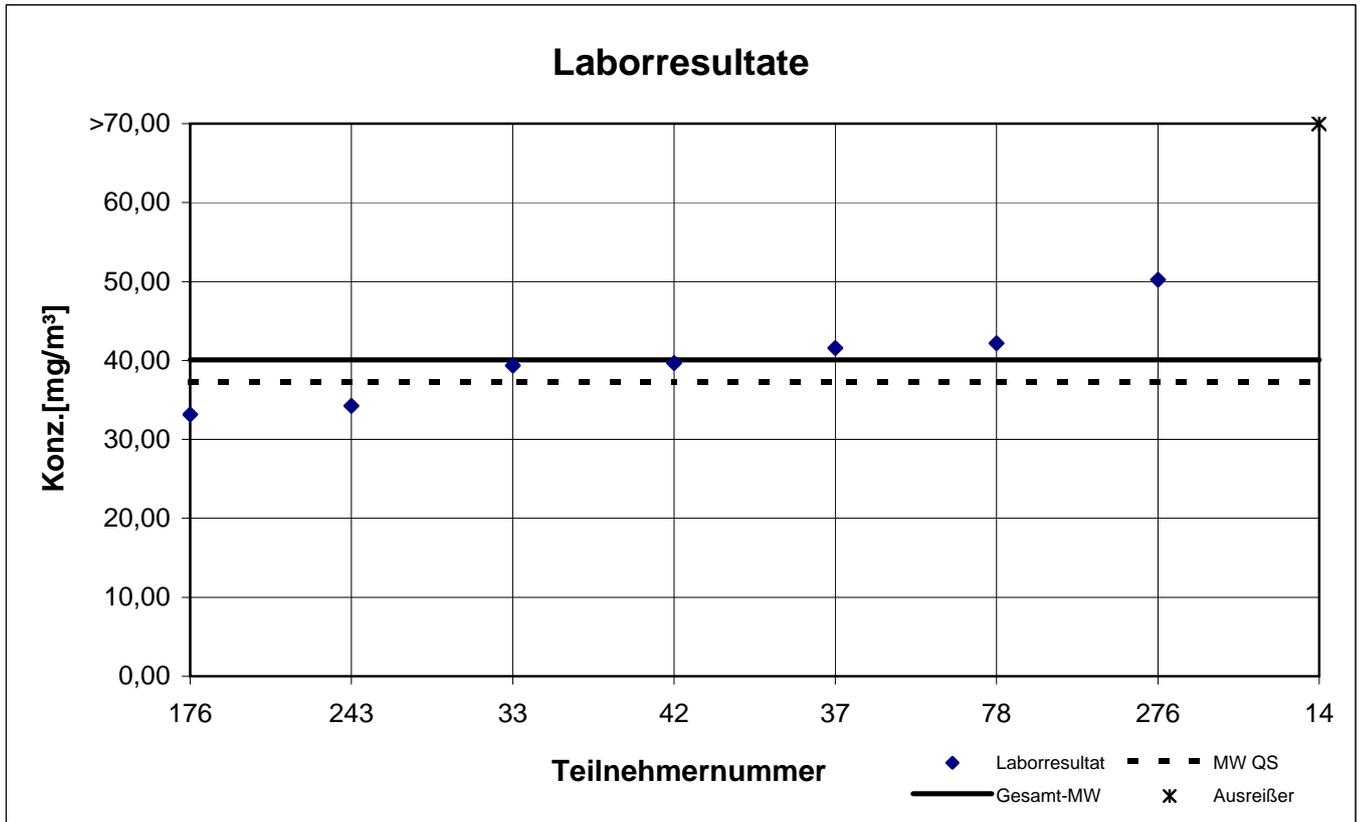
# Probe 1

## 4-Methyl-2-pentanon



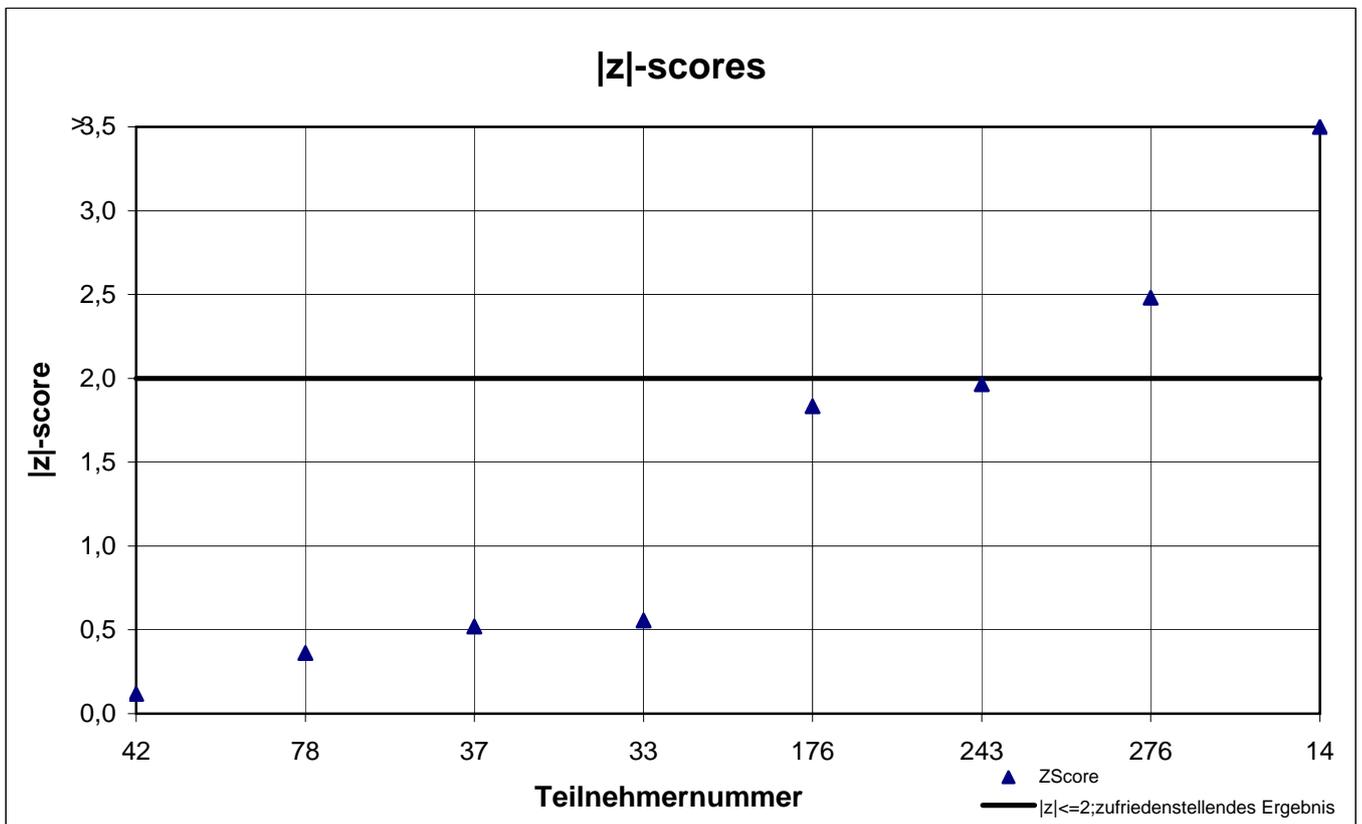
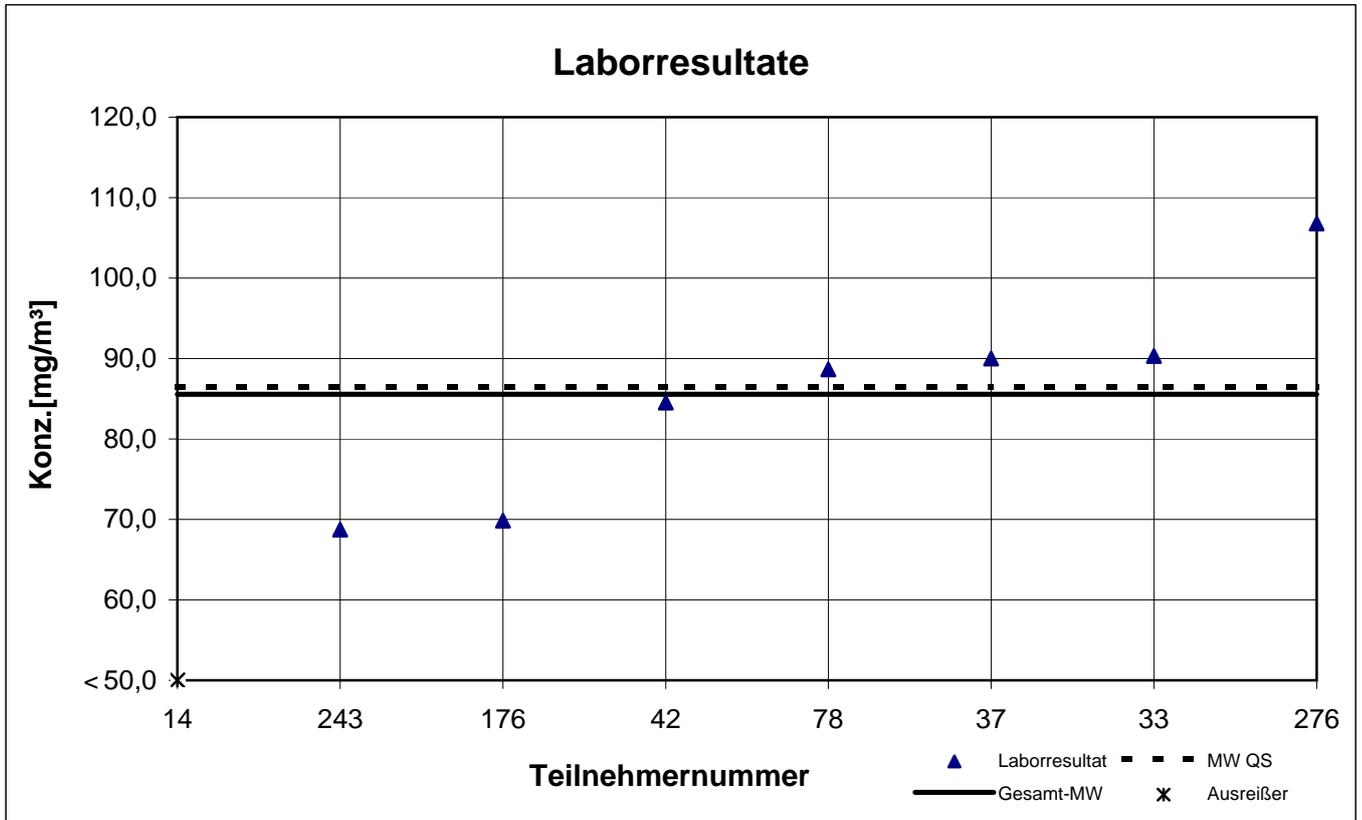
# Probe 1

## Cyclohexanon



# Probe 1

## Cyclopentanon



## Gesamtauswertung Probe 2

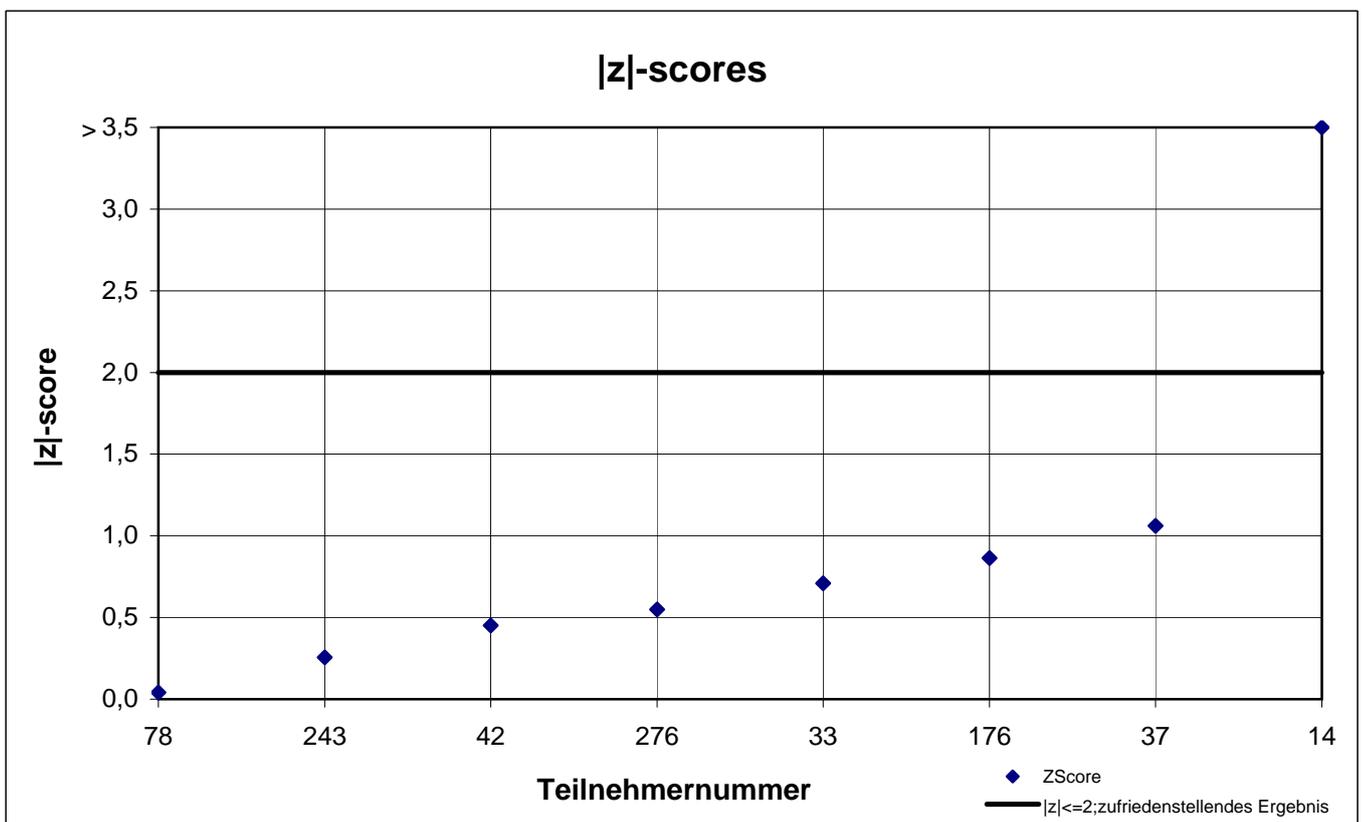
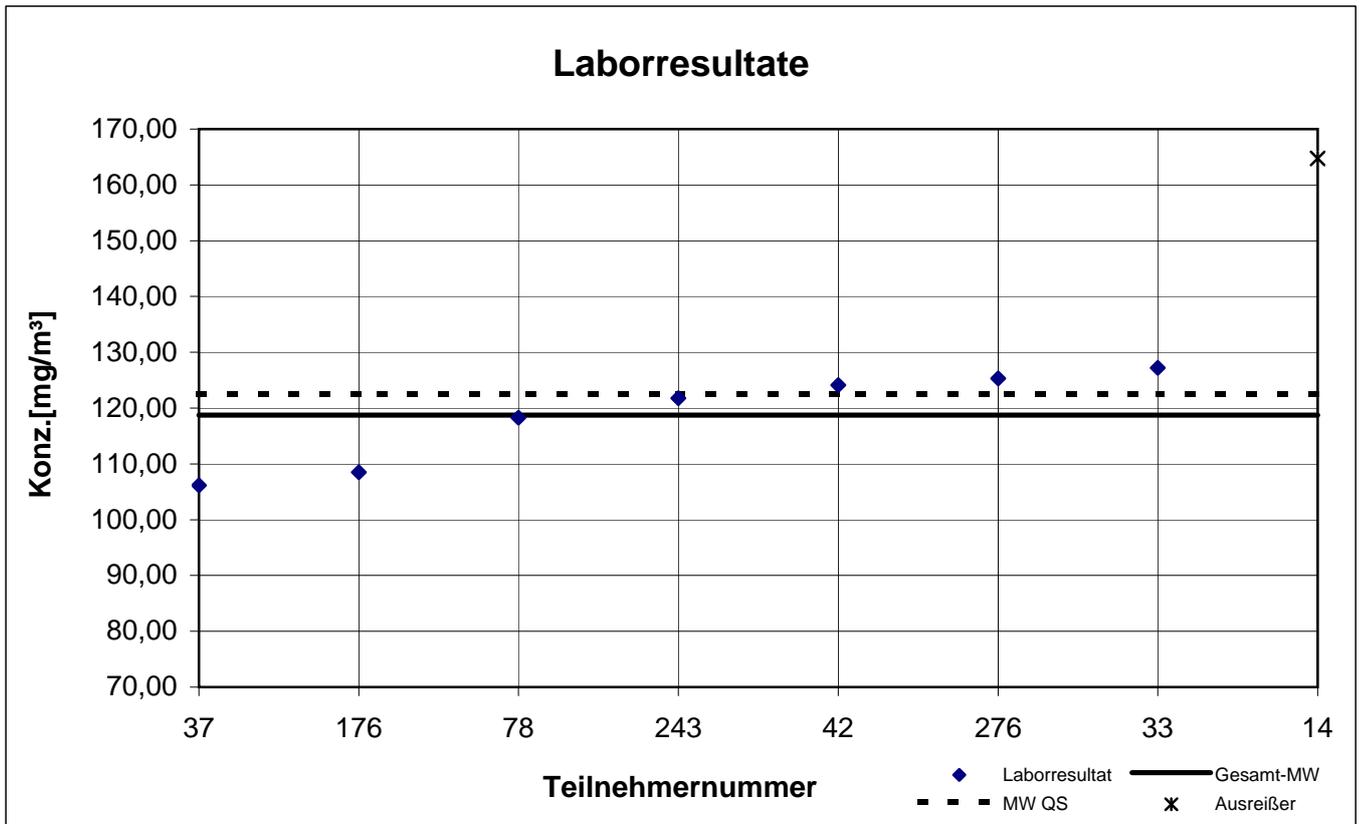
| Teilnehmer-<br>nummer | 1-Butanol                                  |            | Ethylbenzol                                |            | n-Butylacetat                              |            | n-Hexan                                    |               | p-Xylol                                    |            | Toluol                                     |               |
|-----------------------|--|------------|--|------------|--|------------|--|---------------|--|------------|--|---------------|
|                       | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  - score | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  - score | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  - score | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  -<br>score | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  - score | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  -<br>score |
| 14                    | 164,7                                      | 3,9        | 103,0                                      | 0,9        | 75,68                                      | 0,2        | k.A.                                       | k.A.          | 58,83                                      | 1,6        | 35,50                                      | 0,8           |
| 33                    | 127,2                                      | 0,7        | 95,87                                      | 0,1        | 78,33                                      | 0,6        | 95,47                                      | 0,4           | 49,57                                      | 0,2        | 33,47                                      | 0,2           |
| 37                    | 106,2                                      | 1,1        | 87,97                                      | 0,7        | 69,99                                      | 0,6        | 100,3                                      | 0,9           | 46,07                                      | 0,9        | 29,92                                      | 0,9           |
| 42                    | 124,1                                      | 0,5        | 97,73                                      | 0,3        | 76,74                                      | 0,4        | 90,17                                      | 0,2           | 52,09                                      | 0,3        | 33,36                                      | 0,2           |
| 78                    | 118,3                                      | 0,0        | 91,52                                      | 0,3        | 72,50                                      | 0,2        | 89,60                                      | 0,3           | 49,80                                      | 0,2        | 32,46                                      | 0,1           |
| 176                   | 108,5                                      | 0,9        | 90,50                                      | 0,5        | 70,10                                      | 0,5        | 81,60                                      | 1,1           | 48,65                                      | 0,4        | 32,20                                      | 0,2           |
| 243                   | 121,8                                      | 0,3        | 95,17                                      | 0,0        | 75,47                                      | 0,2        | 93,20                                      | 0,1           | 50,93                                      | 0,0        | 32,90                                      | 0,0           |
| 267                   | k.A.                                       | k.A.       | k.A.                                       | k.A.       | k.A.                                       | k.A.       | k.A.                                       | k.A.          | k.A.                                       | k.A.       | k.A.                                       | k.A.          |
| 276                   | 125,3                                      | 0,6        | 96,43                                      | 0,2        | 73,83                                      | 0,0        | 93,93                                      | 0,2           | 49,77                                      | 0,2        | 32,33                                      | 0,1           |

Die mit  gekennzeichneten Felder sind Ausreißer!

|   | 1-Butanol | Ethyl-<br>benzol | n-Butyl-<br>acetat | n-Hexan | p-Xylol | Toluol |
|---|-----------|------------------|--------------------|---------|---------|--------|
| Gesamtmittelwert $c_k$ [mg/m <sup>3</sup> ]       | 118,8     | 94,77            | 74,08              | 92,04   | 50,71   | 32,77  |
| Standardabweichung $S_k$ [mg/m <sup>3</sup> ]     | 8,329     | 4,705            | 3,042              | 5,822   | 3,718   | 1,560  |
| rel. Standardabweichung [%]                       | 7,01      | 4,96             | 4,11               | 6,33    | 7,33    | 4,76   |
| Mittelwert Qualitätsicherung [mg/m <sup>3</sup> ] | 122,6     | 98,70            | 74,00              | 91,20   | 52,30   | 31,90  |

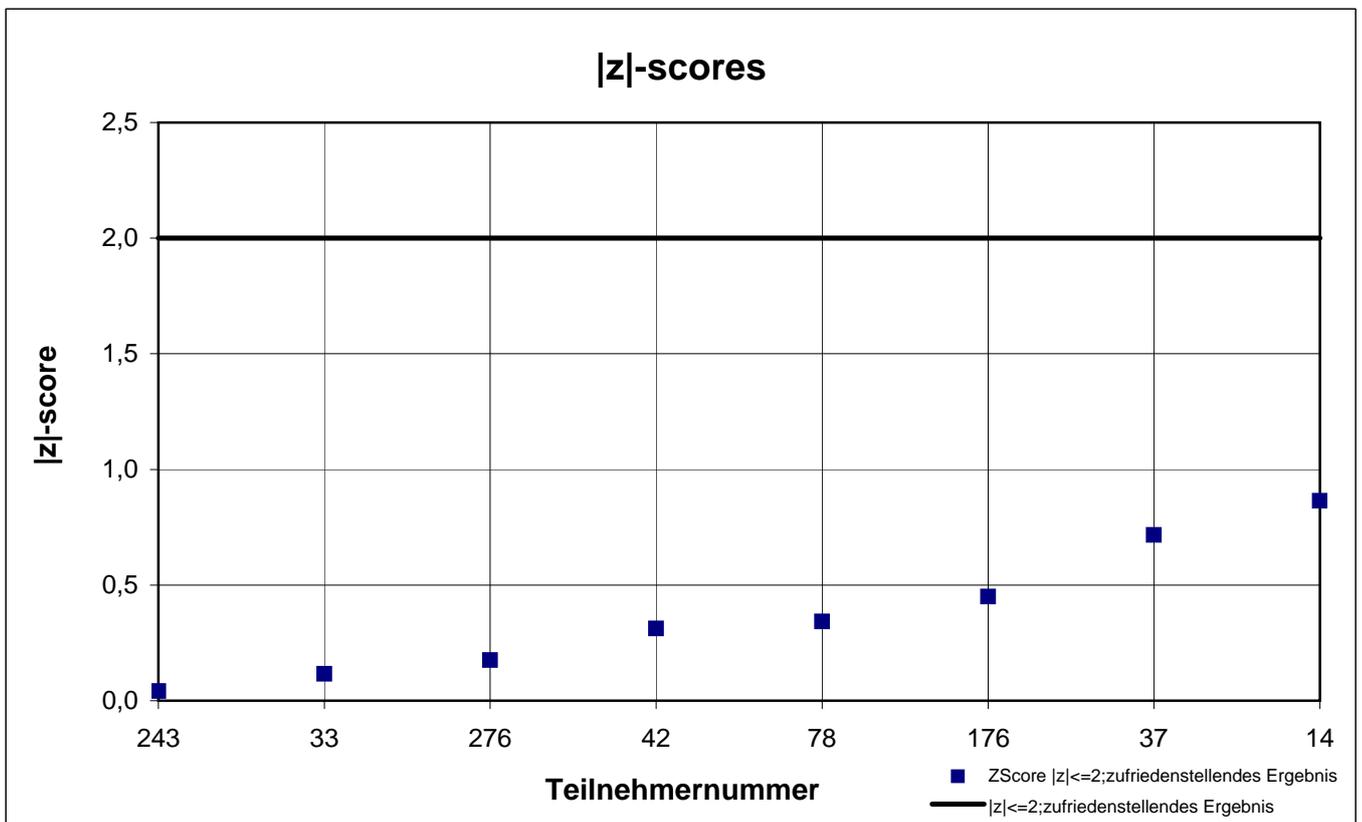
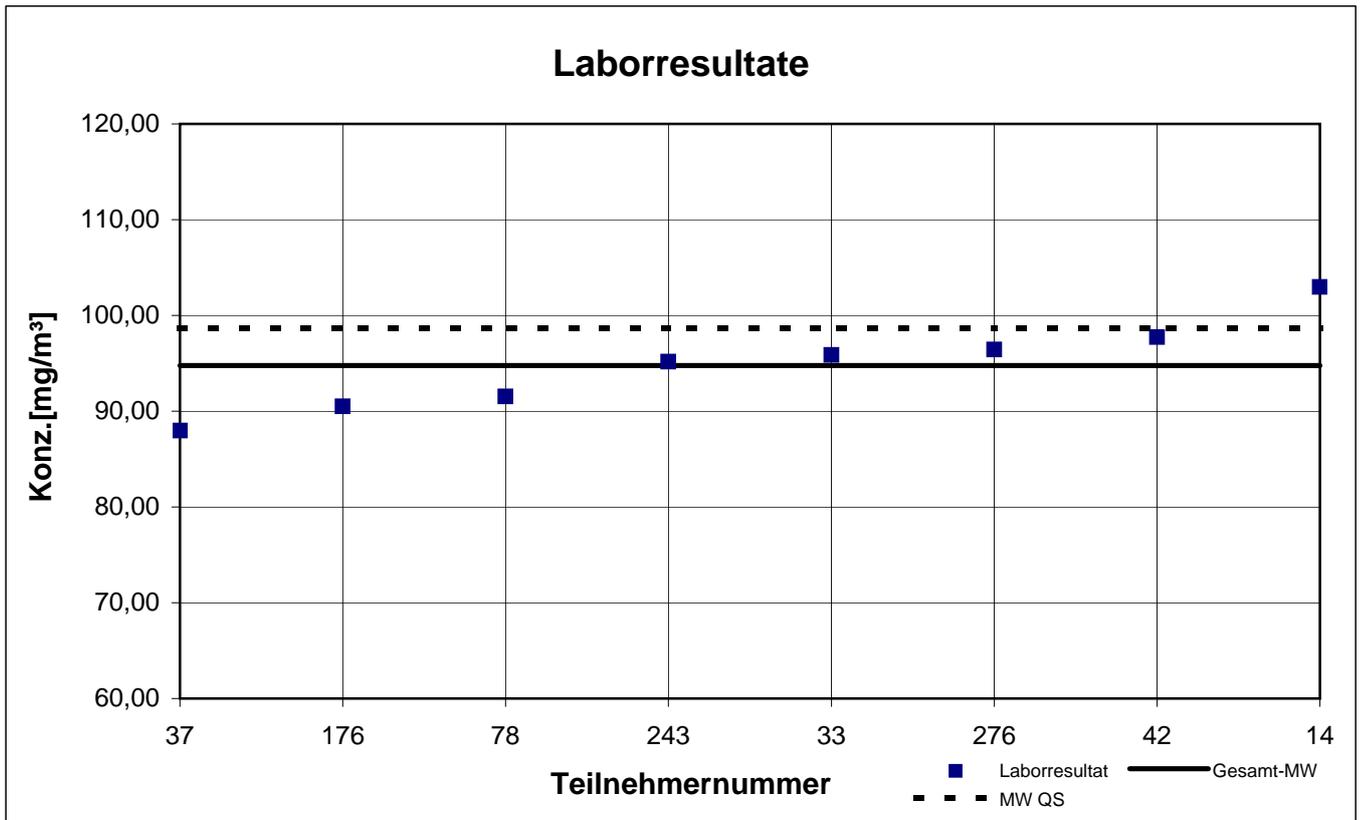
# Probe 2

## 1-Butanol



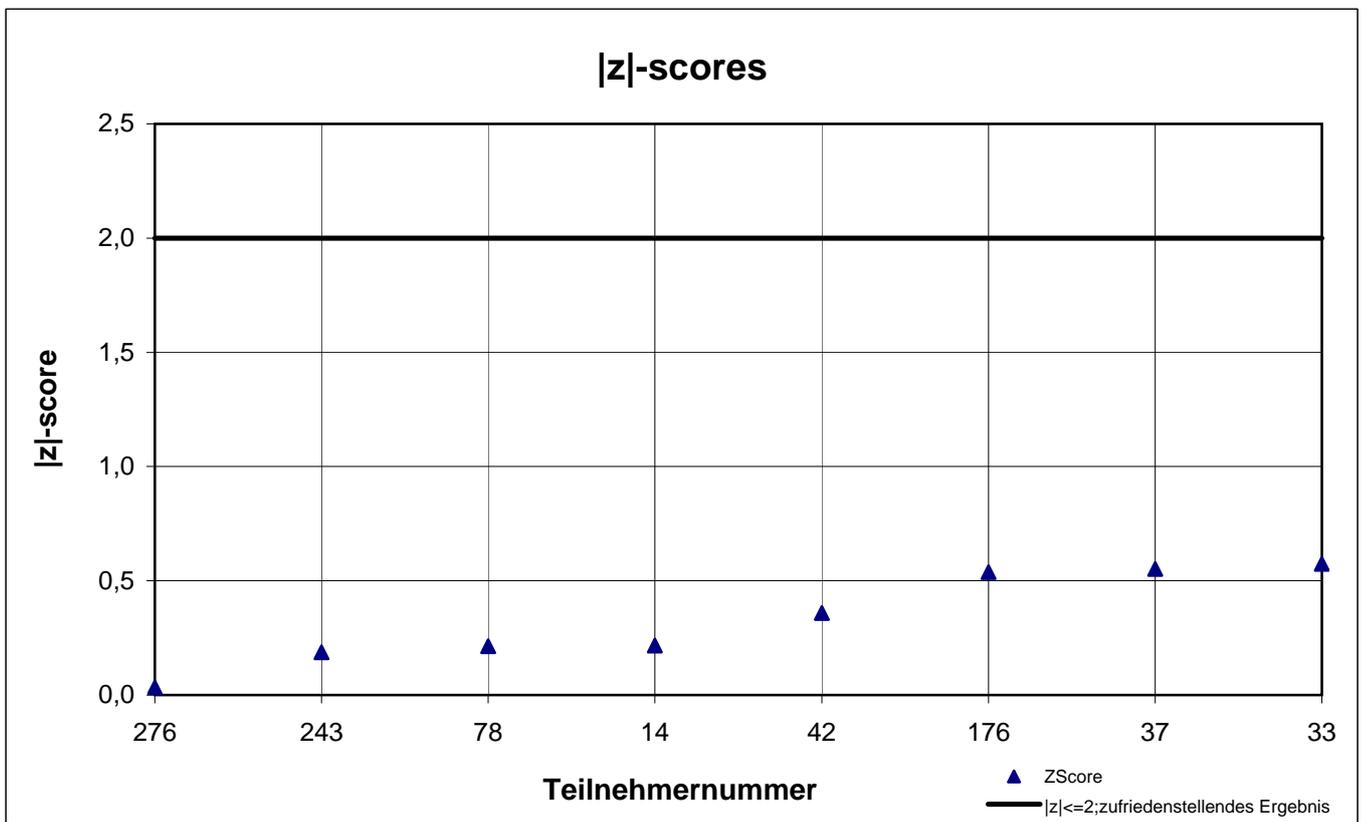
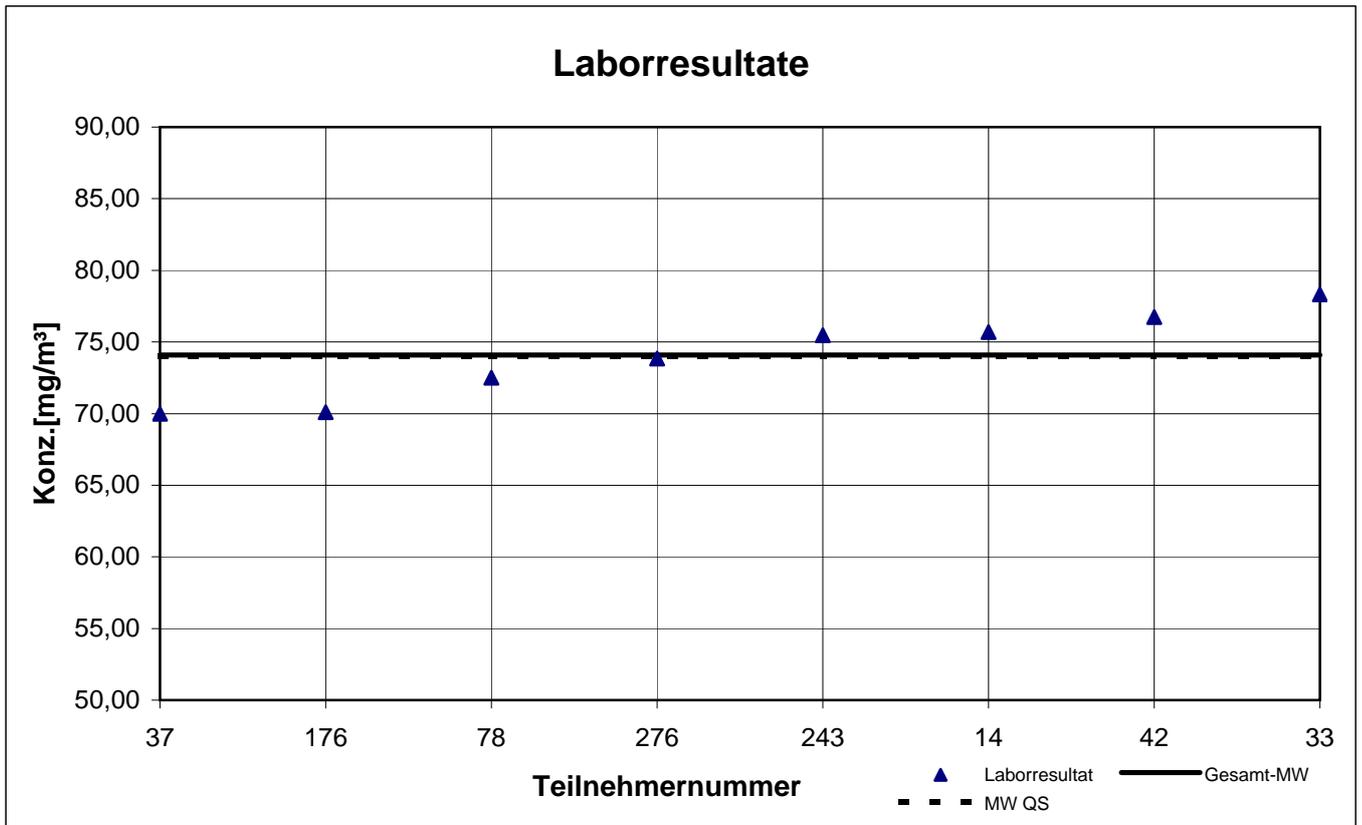
# Probe 2

## Ethylbenzol



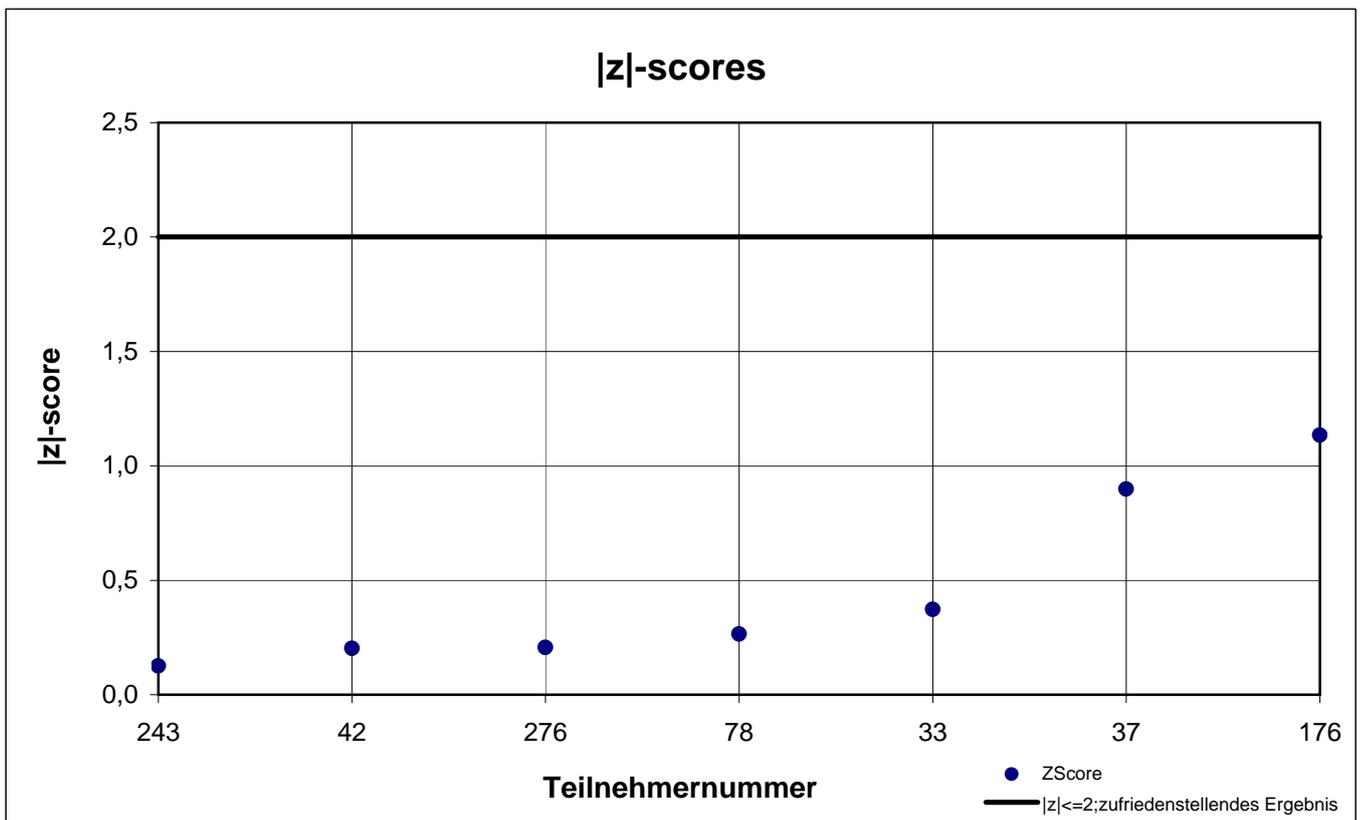
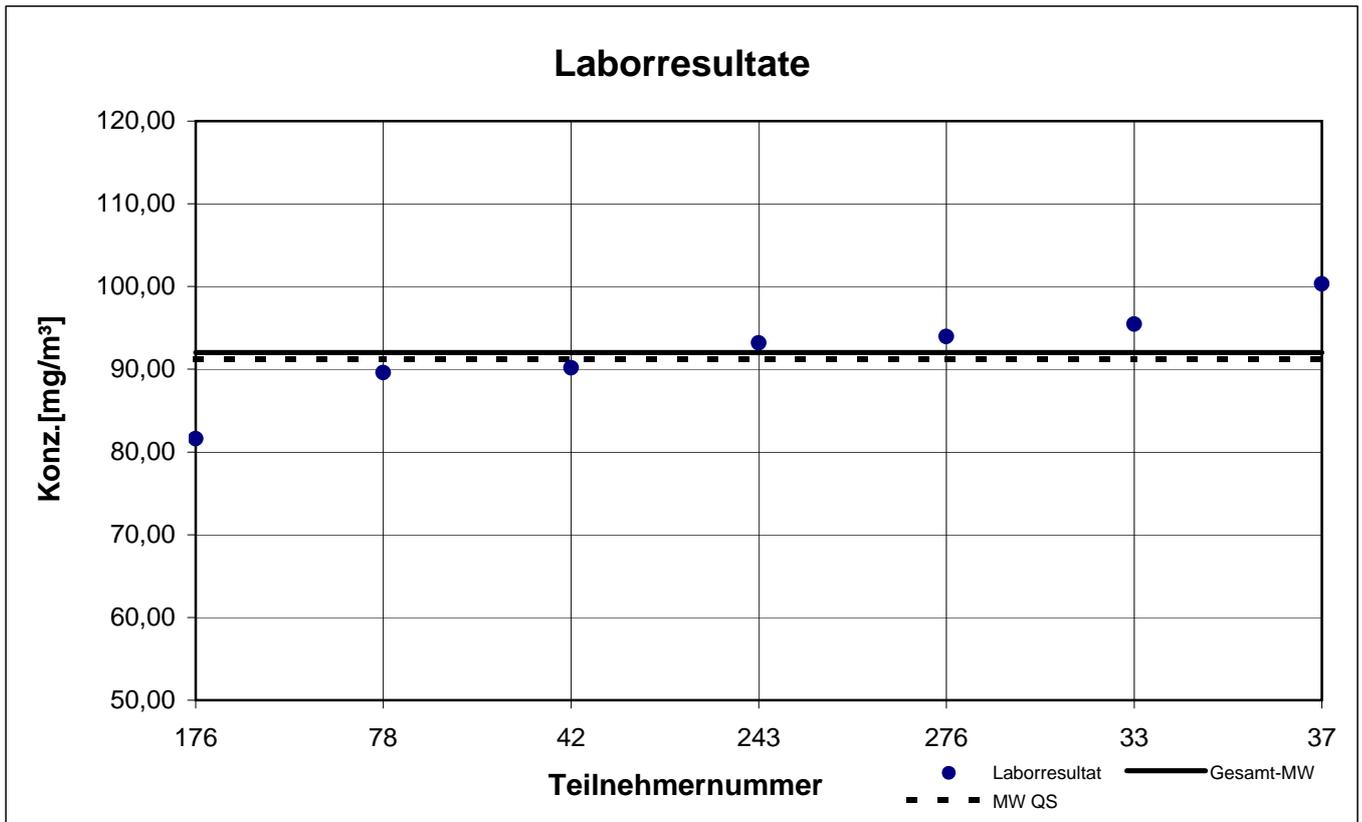
# Probe 2

## n-Butylacetat



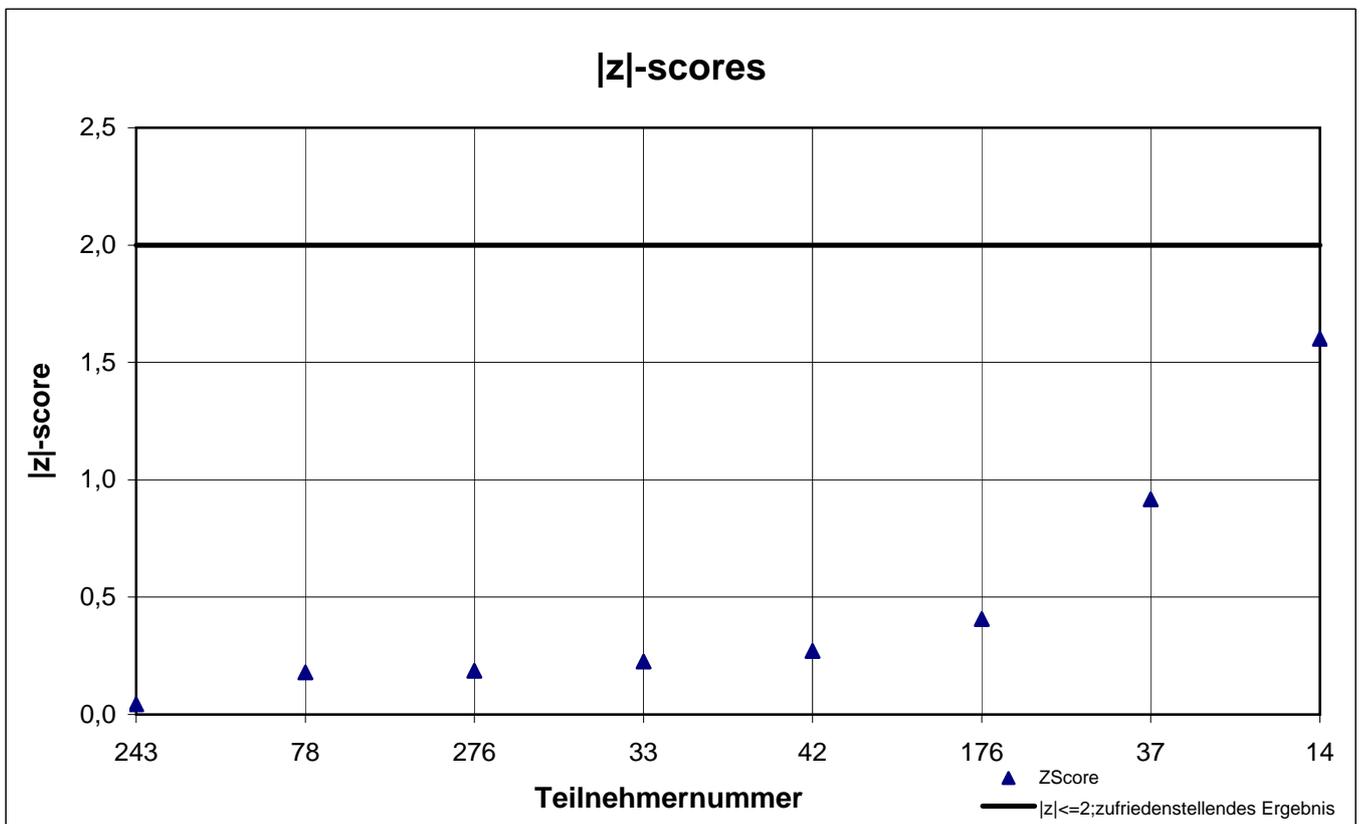
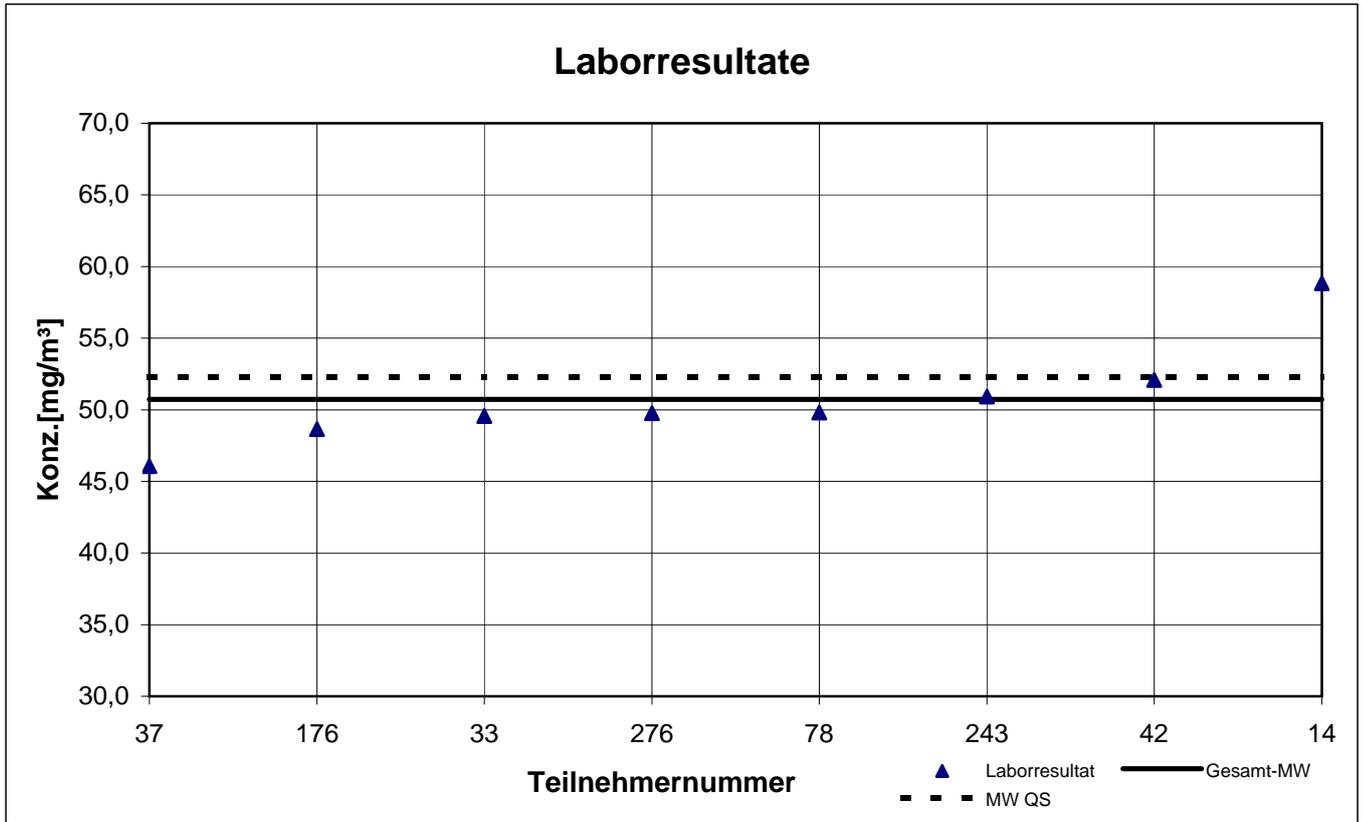
# Probe 2

## n-Hexan



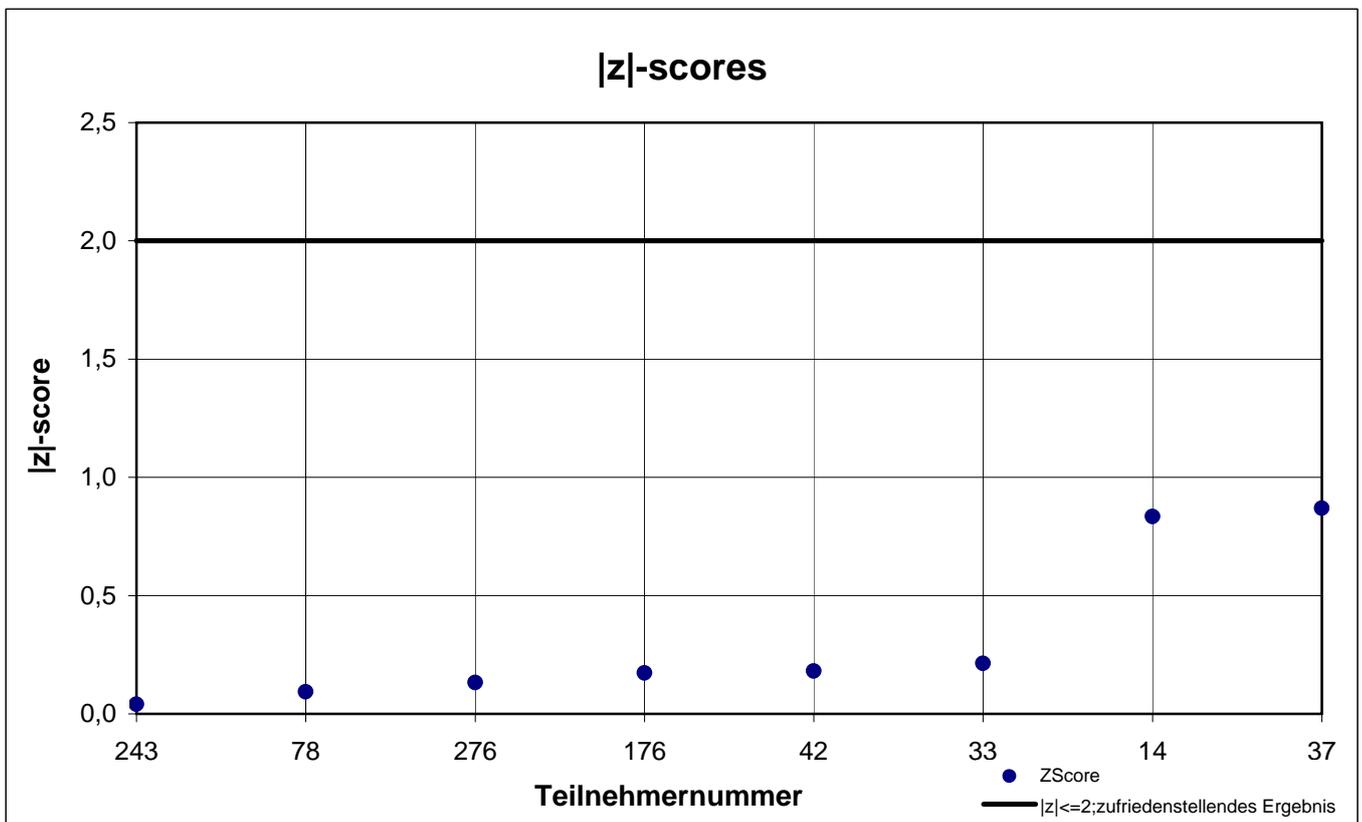
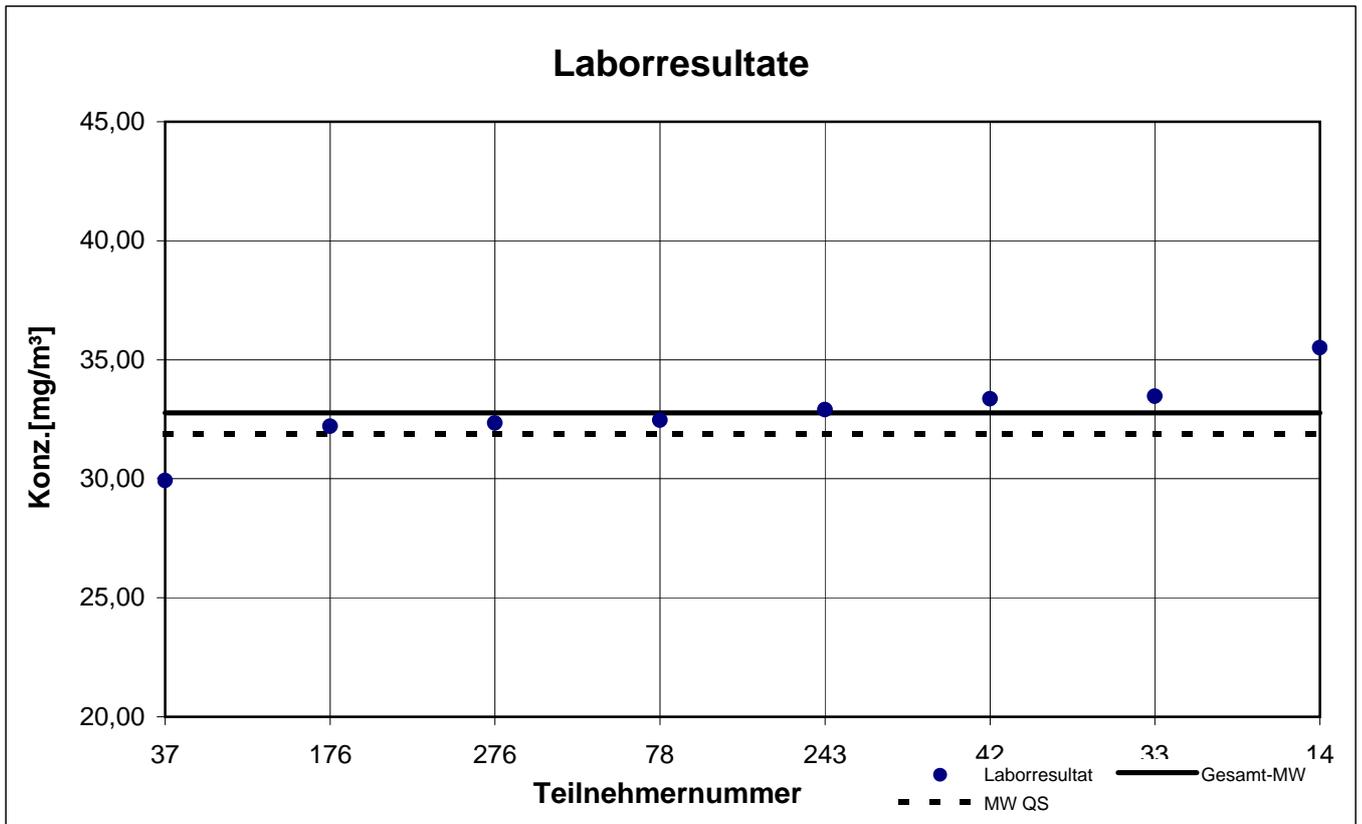
# Probe 2

## p-Xylol



# Probe 2

## Toluol



## Gesamtauswertung Probe 3

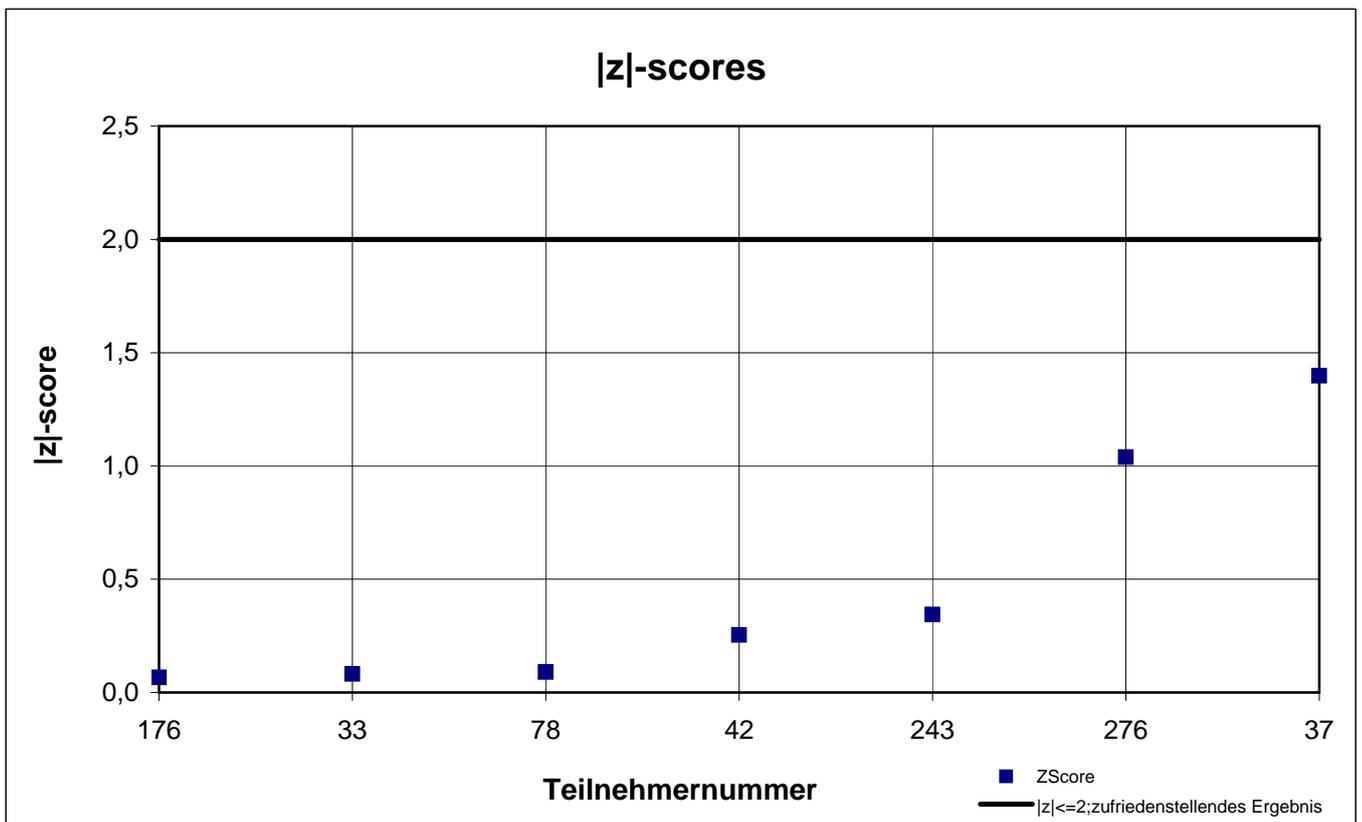
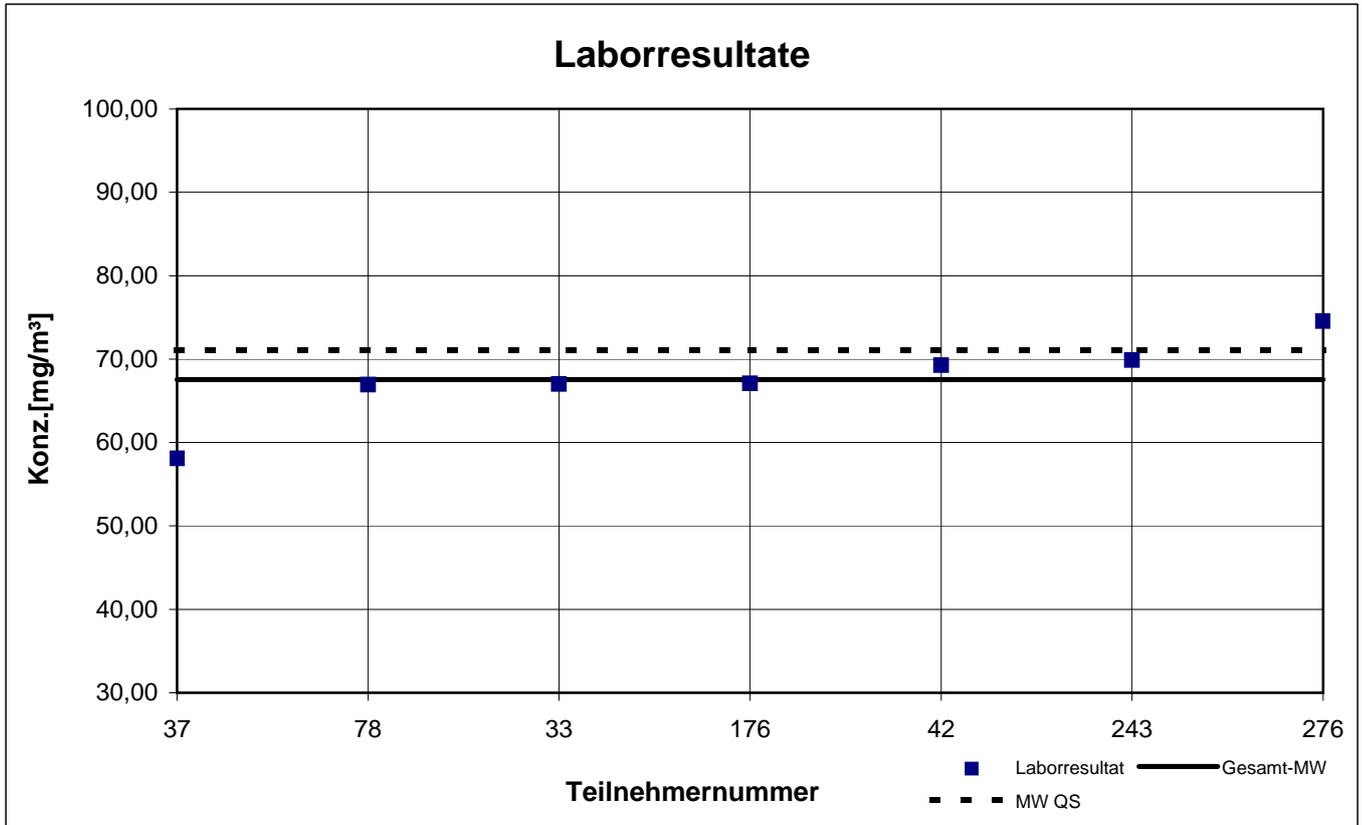
| Teilnehmer-<br>nummer | 1-Methoxy-2-propanol                       |            | 2-Butanol                                  |            | 2-Butoxyethanol                            |            | Ethanol                                    |            |
|-----------------------|--|------------|--|------------|--|------------|--|------------|
|                       | Labor-<br>resultat<br>[mg/m <sup>3</sup> ] | z  - score |
| 14                    | k.A.                                       | k.A.       | 87,54                                      | 2,5        | k.A.                                       | k.A.       | 168,6                                      | 3,1        |
| 33                    | 67,00                                      | 0,1        | 69,30                                      | 0,1        | 15,20                                      | 0,7        | 136,6                                      | 0,6        |
| 37                    | 58,10                                      | 1,4        | 59,57                                      | 1,5        | 16,90                                      | 0,4        | 117,0                                      | 0,9        |
| 42                    | 69,26                                      | 0,3        | 67,05                                      | 0,4        | 16,17                                      | 0,1        | 125,3                                      | 0,3        |
| 78                    | 66,94                                      | 0,1        | 65,01                                      | 0,7        | 15,91                                      | 0,2        | 121,6                                      | 0,6        |
| 176                   | 67,10                                      | 0,1        | 71,20                                      | 0,2        | 17,40                                      | 0,7        | 130,5                                      | 0,1        |
| 243                   | 69,87                                      | 0,3        | 64,93                                      | 0,7        | 15,70                                      | 0,4        | 96,8                                       | 2,5        |
| 267                   | k.A.                                       | k.A.       | k.A.                                       | k.A.       | k.A.                                       | k.A.       | k.A.                                       | k.A.       |
| 276                   | 74,57                                      | 1,0        | 73,77                                      | 0,6        | 16,83                                      | 0,3        | 134,4                                      | 0,4        |

Die mit  gekennzeichneten Felder sind Ausreißer!

|  | 1-Methoxy-2-<br>propanol | 2-Butanol | 2-Butoxy-<br>ethanol | Ethanol |
|--|--------------------------|-----------|----------------------|---------|
| Gesamtmittelwert $c_k$ [mg/m <sup>3</sup> ]        | 67,55                    | 69,80     | 16,30                | 128,9   |
| Standardabweichung $S_k$ [mg/m <sup>3</sup> ]      | 4,962                    | 8,378     | 0,774                | 20,377  |
| rel. Standardabweichung [%]                        | 7,35                     | 12,00     | 4,75                 | 15,81   |
| Mittelwert Qualitätssicherung [mg/m <sup>3</sup> ] | 71,10                    | 66,40     | 15,50                | 131,7   |

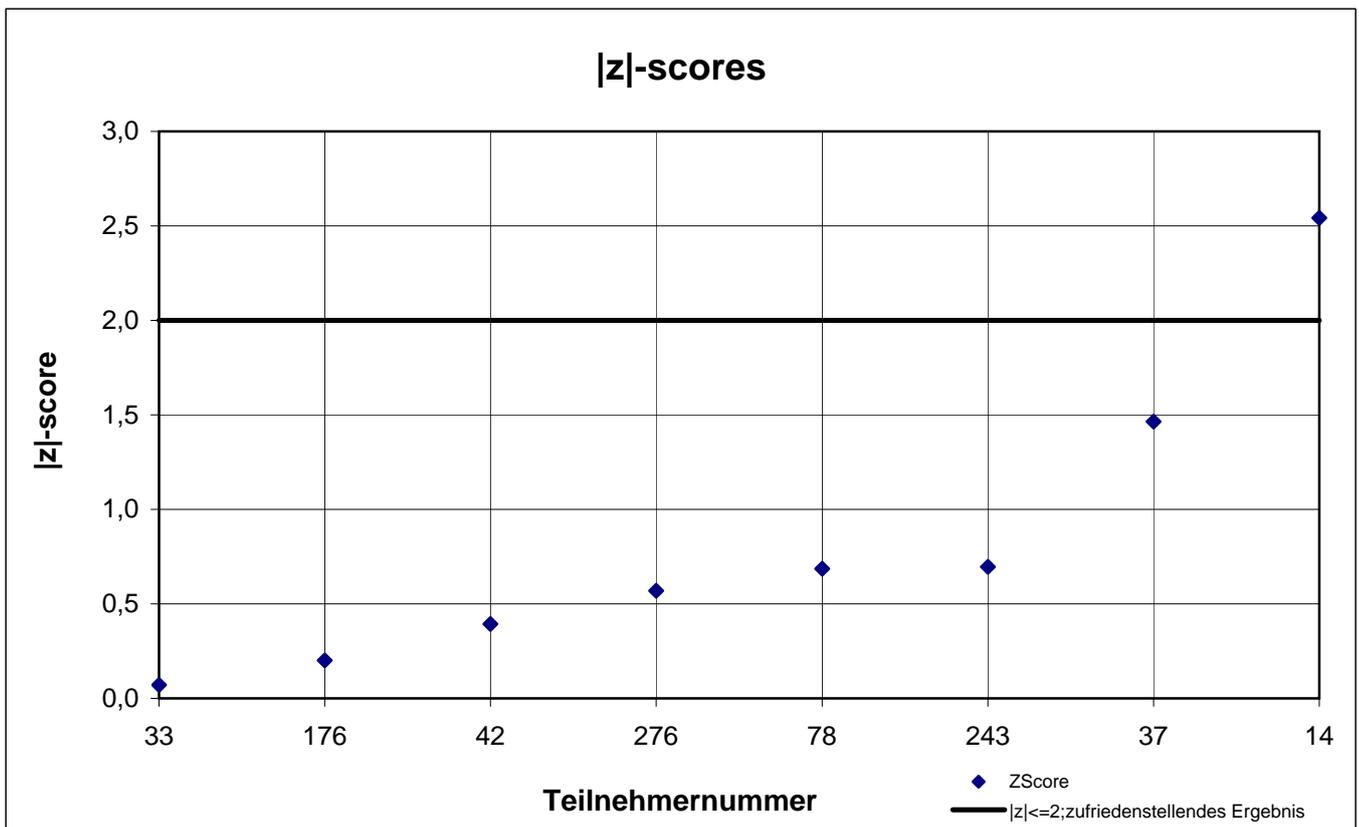
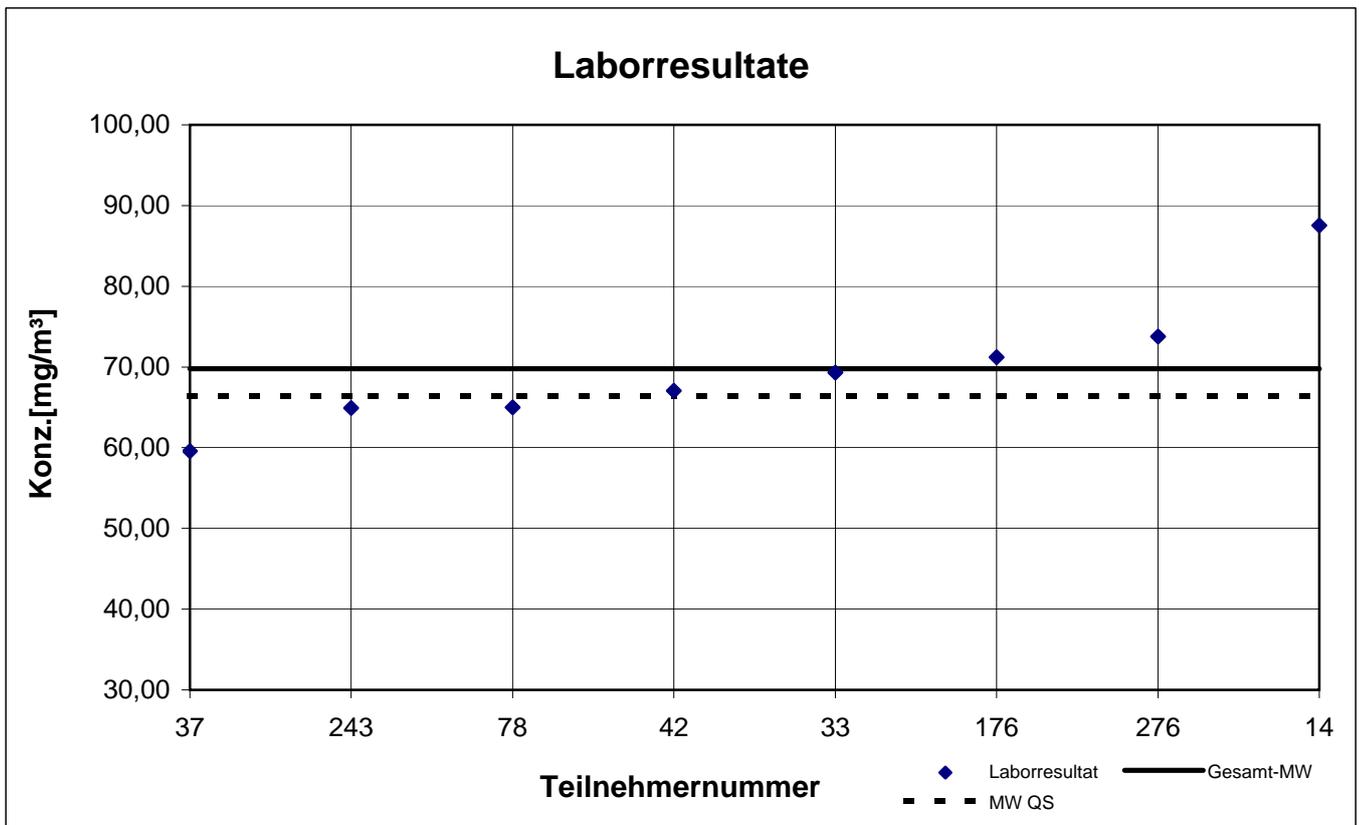
# Probe 3

## 1-Methoxy-2-propanol



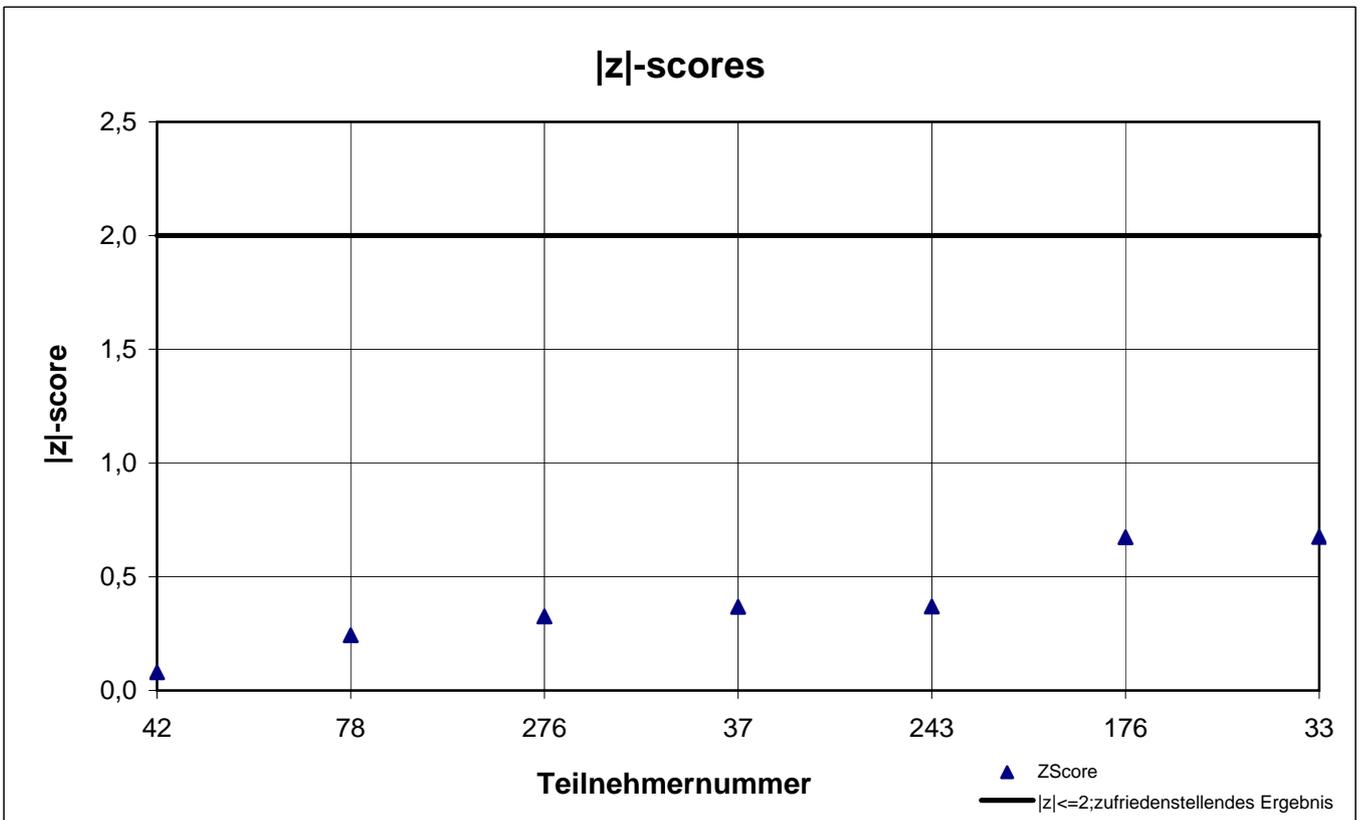
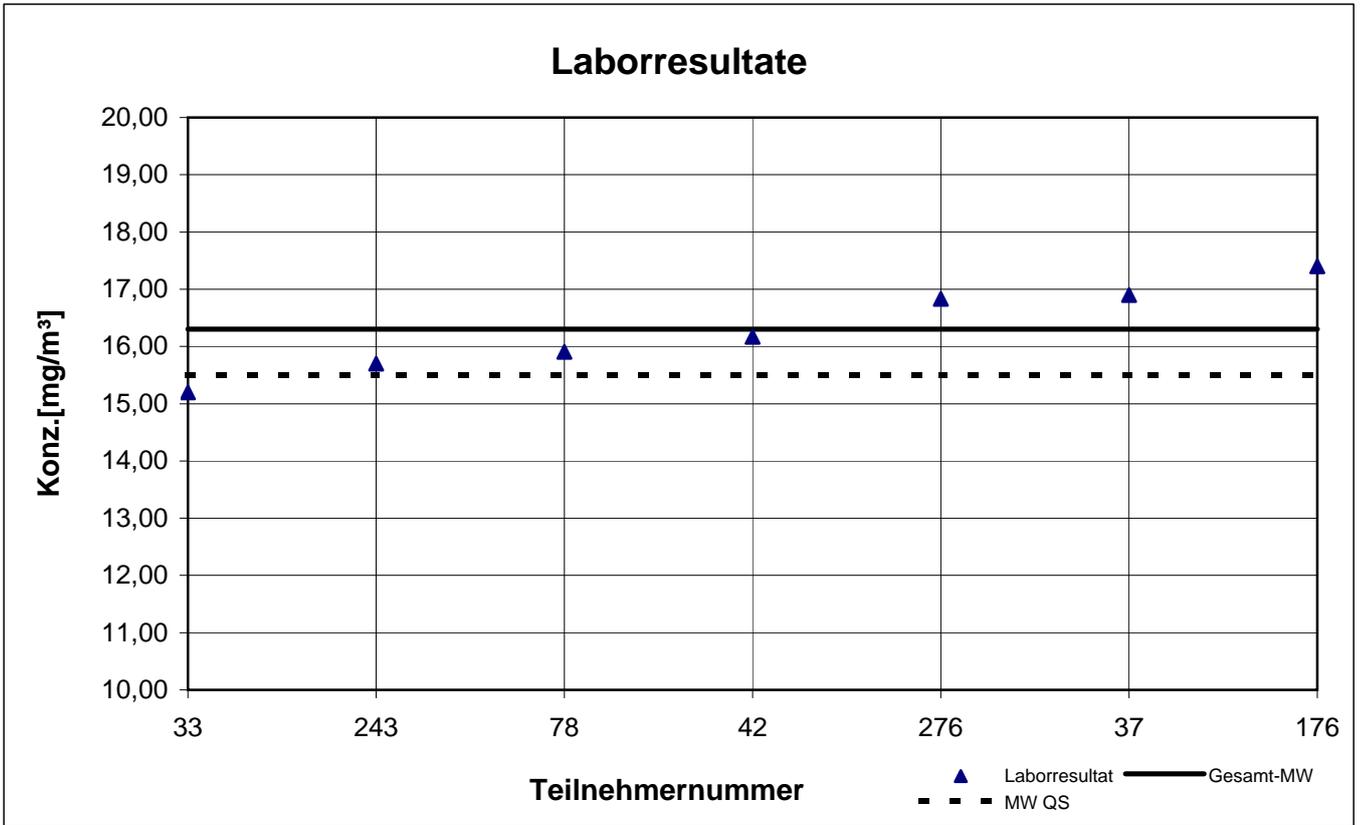
# Probe 3

## 2-Butanol



# Probe 3

## 2-Butoxyethanol



# Probe 3

## Ethanol

