

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
 DateRun: 08/09/2016
 Experimenters: James Keats
 ClientType: Cleaning Equipment Mfr
 ProjectNumber: Project #1
 Substrates: Vinyl Composite Tiles
 PartType: Coupon
 Contaminants: Food
 Cleaning Methods: Mechanical Agitation
 Analytical Methods: Visual

Purpose: To provide a basis with which to compare the effectiveness of the Braava unit to competitors.

Experimental Procedure: Apply soil to 4' X 4' clean vinyl floor, spreading 1g of soil onto even numbered tiles with a swab and odd tiles by dripping 1g of soil onto them (16g per floor). No drying is required for the Vinaigrette. The tester then cleans the floor using paper towels and a spray bottle filled with water, beginning by the 1st tile. Tester continues to clean until they feel they have finished. The time it takes for the tester to clean the floor is recorded.

To evaluate total soil removal, a visual observation will be made. This observation will be an estimation of the % soil removed from each tile by observing the amount of soil removed by a paper towel. Each tile will be wiped with a paper towel in a circular motion until the entire tile has been wiped. Also a control paper towel will be prepared by wiping off 1g of soil. In addition to this rating, observers will also be asked to rate the overall cleanliness of the floor from 1-5 (1 being no soil remaining).

Tile numbers

| | | | |
|---|----|----|----|
| 4 | 5 | 6 | 7 |
| 3 | 14 | 15 | 8 |
| 2 | 13 | 16 | 9 |
| 1 | 12 | 11 | 10 |

^^^

Tester starts standing here

Results: Percent removal Trial 1

Observer 1 - rating: 1.2

| | | | |
|------|------|-----|-----|
| 100% | 100% | 99% | 95% |
| 100% | 100% | 98% | 97% |
| 95% | 99% | 98% | 97% |
| 98% | 97% | 97% | 97% |

Observer 2 - rating: 1.5

| | | | |
|------|------|-----|-----|
| 100% | 100% | 99% | 95% |
| 100% | 100% | 95% | 95% |
| 75% | 95% | 90% | 85% |
| 99% | 95% | 95% | 90% |

Observer 3 - rating: 1.5

| | | | |
|-----|------|------|-----|
| 99% | 100% | 100% | 95% |
| 99% | 100% | 99% | 95% |
| 70% | 100% | 95% | 95% |
| 90% | 100% | 100% | 95% |

Summary:

| | | | | | |
|----------------------|-----------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Vinyl Composite Tiles | | | | |
| Contaminants: | Food | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Water | Water | 100 | | <input checked="" type="checkbox"/> | |

Conclusion:

Wiping the tiles with a paper towel made it easier to see the remaining contaminant on the floor. Manual cleaning was slightly better than the Braava unit, but neither completely cleaned the floor.