



## CERTYFIKAT ANALIZY

|                     |                                                                                                        |                                    |                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------|
| Zlecenie            | : PR21C2510                                                                                            | Data sprzedaży                     | : 23.12.2021                                                   |
| Odbiorca            | : REMEA Sp. z o.o.                                                                                     | Sprzedawca/Lab                     | : ALS Czech Republic, s.r.o.                                   |
| Kontakt             | : Przemysław Wyskocki                                                                                  | Kontakt                            | : Obsługa Klienta                                              |
| Adres               | : ul. Powązkowska 44C<br>01-797 Warszawa Poland                                                        | Adres                              | : Na Harfe 336/9 Praha 9 - Vysočany<br>190 00 Republika Czeska |
| E-mail              | : pwyskocki@remae-group.com                                                                            | E-mail                             | : customer.support@alsglobal.com                               |
| Telefon             | : ----                                                                                                 | Telefon                            | : +420 226 226 228                                             |
| Projekt             | : Remediacja terenów zdegradowanych<br>i zanieczyszczonych w rejonie stawu<br>Kalina w Świętochowicach | Strona                             | : 1 z 9                                                        |
| Numer zamówienia    | : ----                                                                                                 | Data otrzymania próbek             | : 15.12.2021                                                   |
|                     |                                                                                                        | Numer oferty                       | : PR2021REMEA-PL0001<br>(PL-130-21-0241)                       |
| Zakład              | : Rejon stawu Kalina w<br>Świętochowicach                                                              | Data badania                       | : 15.12.2021 - 22.12.2021                                      |
| Próby pobrane przez | : ----                                                                                                 | Poziom Kontroli Jakości "QC Level" | : ALS CR Standard Quality Control<br>Schedule                  |

### Uwagi ogólne

Ten raport nie powinien być powielany inaczej jak w pełnej formie bez pisemnej zgody laboratorium.

Laboratorium oświadcza, że wyniki odnoszą się wyłącznie do wymienionych próbek. Jeśli w polu "Próby pobrane przez" na certyfikacie analizy zadeklarowano: "pobrane przez Klienta", oznacza to, że wyniki analiz odnoszą się wyłącznie do próbek dostarczonych i przyjętych przez laboratorium.

Próbki PR21C2510/001-004, metoda A-VOCGMS05, A-VOCGMS06 - LOR został(-ly) podniesione z powodu interferencji matrycy.

Próbki PR21C2510/001-004, metoda A-VOCGMS06 - raportowany wynik został obliczony na podstawie informacji o czasach poboru dostarczonych przez Klienta. Laboratorium nie ponosi odpowiedzialności za prawidłowość tych informacji.

Dla pewnych analitów wartość próbkowania została ustalona na podstawie wartości współczynnika dyfuzji. W celu uzyskania dodatkowych informacji, prosimy o kontakt z Biurem Obsługi Klienta.

### Odpowiedzialny za prawidłowość

Testing Laboratory nr 1163  
Accredited by CAI according to  
CSN EN ISO/IEC 17025:2018

Podpisy  
Zdeněk Jiráč

Pozycja  
Environmental Business Unit  
Manager



Firma jest certyfikowana zgodnie z normą ČSN EN ISO 14001 (Systemy zarządzania środowiskowego) i ČSN ISO 45001 (Systemy zarządzania bezpieczeństwem i higieną pracy)



## Wyniki analiz

| Matryca badana: Emisja                             |            |       |                   | Numer próbki klienta |         |        | próbka zachód    |        | próbka północ    |  | próbka południe  |  |
|----------------------------------------------------|------------|-------|-------------------|----------------------|---------|--------|------------------|--------|------------------|--|------------------|--|
|                                                    |            |       |                   | Identyfikator próbki |         |        | PR21C2510001     |        | PR21C2510002     |  | PR21C2510003     |  |
| Data / godzina pobrania próbki przez Próbkiobiorcę |            |       |                   |                      |         |        | 13.12.2021 14:10 |        | 13.12.2021 14:00 |  | 13.12.2021 14:20 |  |
| Parametr                                           | Metoda     | LOR   | Jednostka         | Wynik                | NP      | Wynik  | NP               | Wynik  | NP               |  |                  |  |
| <b>BTEX</b>                                        |            |       |                   |                      |         |        |                  |        |                  |  |                  |  |
| Benzen                                             | A-VOCGMS05 | 0.10  | µg/próbkę         | 3.50                 | ± 25.0% | 2.79   | ± 25.0%          | 3.62   | ± 25.0%          |  |                  |  |
| Toluen                                             | A-VOCGMS05 | 0.10  | µg/próbkę         | 3.16                 | ± 20.0% | 2.38   | ± 20.0%          | 3.00   | ± 20.0%          |  |                  |  |
| Etylobenzen                                        | A-VOCGMS05 | 0.10  | µg/próbkę         | 0.56                 | ± 20.0% | 0.43   | ± 20.0%          | 0.52   | ± 20.0%          |  |                  |  |
| Meta- i para ksylen                                | A-VOCGMS05 | 0.10  | µg/próbkę         | 1.84                 | ± 20.0% | 1.30   | ± 20.0%          | 1.71   | ± 20.0%          |  |                  |  |
| Orto-ksylen                                        | A-VOCGMS05 | 0.10  | µg/próbkę         | 0.62                 | ± 20.0% | 0.44   | ± 20.0%          | 0.55   | ± 20.0%          |  |                  |  |
| Suma BTEX                                          | A-VOCGMS05 | 0.50  | µg/próbkę         | 9.68                 | ---     | 7.34   | ---              | 9.40   | ---              |  |                  |  |
| Suma TEX                                           | A-VOCGMS05 | 0.40  | µg/próbkę         | 6.18                 | ---     | 4.55   | ---              | 5.78   | ---              |  |                  |  |
| Suma ksylenów                                      | A-VOCGMS05 | 0.20  | µg/próbkę         | 2.46                 | ---     | 1.74   | ---              | 2.26   | ---              |  |                  |  |
| Benzen                                             | A-VOCGMS06 | 0.120 | µg/m <sup>3</sup> | 4.95                 | ± 30.0% | 3.94   | ± 30.0%          | 5.12   | ± 30.0%          |  |                  |  |
| Etylobenzen                                        | A-VOCGMS06 | 0.150 | µg/m <sup>3</sup> | 0.932                | ± 30.0% | 0.715  | ± 30.0%          | 0.865  | ± 30.0%          |  |                  |  |
| Meta- i para ksylen                                | A-VOCGMS06 | 0.140 | µg/m <sup>3</sup> | 2.97                 | ± 30.0% | 2.10   | ± 30.0%          | 2.76   | ± 30.0%          |  |                  |  |
| Orto-ksylen                                        | A-VOCGMS06 | 0.150 | µg/m <sup>3</sup> | 1.08                 | ± 30.0% | 0.766  | ± 30.0%          | 0.957  | ± 30.0%          |  |                  |  |
| Suma ksylenów                                      | A-VOCGMS06 | 0.290 | µg/m <sup>3</sup> | 4.09                 | ± 30.0% | 2.90   | ± 30.0%          | 3.76   | ± 30.0%          |  |                  |  |
| Toluen                                             | A-VOCGMS06 | 0.130 | µg/m <sup>3</sup> | 4.83                 | ± 30.0% | 3.64   | ± 30.0%          | 4.59   | ± 30.0%          |  |                  |  |
| <b>Halogenowane lotne związki organiczne</b>       |            |       |                   |                      |         |        |                  |        |                  |  |                  |  |
| 1.1.1.2-Tetrachloroetan                            | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.1.1-Trichloroetan                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.1.2.2-Tetrachloroetan                            | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.1.2-Trichloroetan                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.1-Dichloroetan                                   | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.1-Dichloroeten                                   | A-VOCGMS06 | 0.250 | µg/m <sup>3</sup> | <0.250               | ---     | <0.250 | ---              | <0.250 | ---              |  |                  |  |
| 1.1-Dichloroeten                                   | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.1-Dichloropropene                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2.3-Trichlorobenzen                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2.3-Trichloropropan                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2.4-Trichlorobenzen                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2-Dibromo-3-Chloropropan                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2-Dibromoetan (EDB)                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2-Dichlorobenzen                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2-Dichloroetan                                   | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.2-Dichloropropan                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.3.5-Trichlorobenzen                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.3-Dichlorobenzen                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.3-Dichloropropan                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 1.4-Dichlorobenzen                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 2.2-Dichloropropan                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 2-chlorotoluen                                     | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| 4-Chlorotoluen                                     | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Bromobenzen                                        | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Bromochloromethane                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Bromodichlorometan                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Bromoform                                          | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Bromometan                                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Chlorek winylu                                     | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Chlorobenzen                                       | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Chloroethane                                       | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Chloroform                                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Chlorometan                                        | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| cis-1.2-Dichloroeten                               | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Cis-1.3-Dichloropropen                             | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Dibromochlorometan                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Dibromometan                                       | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Dichlorodifluorometan                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Dichlorometan                                      | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Hexachlorobutadiene                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |
| Tetrachloroeten                                    | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20  | ---              | <0.20  | ---              |  |                  |  |



| Matryca badana: Emisja                                     |            |       |           | Numer próbki klienta |         |              | próbka zachód    |              | próbka północ    |  | próbka południe  |  |
|------------------------------------------------------------|------------|-------|-----------|----------------------|---------|--------------|------------------|--------------|------------------|--|------------------|--|
|                                                            |            |       |           | Identyfikator próbki |         |              | PR21C2510001     |              | PR21C2510002     |  | PR21C2510003     |  |
| Data / godzina pobrania próbki przez Próbkiobiercę         |            |       |           |                      |         |              | 13.12.2021 14:10 |              | 13.12.2021 14:00 |  | 13.12.2021 14:20 |  |
| Parametr                                                   | Metoda     | LOR   | Jednostka | Wynik                | NP      | Wynik        | NP               | Wynik        | NP               |  |                  |  |
| <b>Halogenowane lotne związki organiczne - Kontynuacja</b> |            |       |           |                      |         |              |                  |              |                  |  |                  |  |
| Tetrachlorometan                                           | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.22</b>          | ± 30.0% | <b>0.20</b>  | ± 30.0%          | <b>0.31</b>  | ± 30.0%          |  |                  |  |
| Trans-1,2-dichloroeten                                     | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Trans-1,3-dichloropropen                                   | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Trichloroeten                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Trichlorofluorometan                                       | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.34</b>          | ± 30.0% | <b>0.27</b>  | ± 30.0%          | <b>0.32</b>  | ± 30.0%          |  |                  |  |
| 1.1.1-Trichloroeten                                        | A-VOCGMS06 | 0.320 | µg/m³     | <0.320               | ---     | <0.320       | ---              | <0.320       | ---              |  |                  |  |
| 1.2-Dichloroeten                                           | A-VOCGMS06 | 0.260 | µg/m³     | <0.260               | ---     | <0.260       | ---              | <0.260       | ---              |  |                  |  |
| 1.2-Dichloropropan                                         | A-VOCGMS06 | 0.300 | µg/m³     | <0.300               | ---     | <0.300       | ---              | <0.300       | ---              |  |                  |  |
| 1.4-Dichlorobenzen                                         | A-VOCGMS06 | 0.390 | µg/m³     | <0.390               | ---     | <0.390       | ---              | <0.390       | ---              |  |                  |  |
| cis-1.2-Dichloroeten                                       | A-VOCGMS06 | 0.250 | µg/m³     | <0.250               | ---     | <0.250       | ---              | <0.250       | ---              |  |                  |  |
| Trans-1,2-dichloroeten                                     | A-VOCGMS06 | 0.250 | µg/m³     | <0.250               | ---     | <0.250       | ---              | <0.250       | ---              |  |                  |  |
| Bromochloromethane                                         | A-VOCGMS06 | 0.280 | µg/m³     | <0.280               | ---     | <0.280       | ---              | <0.280       | ---              |  |                  |  |
| Dichlorometan                                              | A-VOCGMS06 | 0.220 | µg/m³     | <0.220               | ---     | <0.220       | ---              | <0.220       | ---              |  |                  |  |
| Chlorobenzen                                               | A-VOCGMS06 | 0.290 | µg/m³     | <0.290               | ---     | <0.290       | ---              | <0.290       | ---              |  |                  |  |
| Chloroform                                                 | A-VOCGMS06 | 0.260 | µg/m³     | <0.260               | ---     | <0.260       | ---              | <0.260       | ---              |  |                  |  |
| Tetrachloroeten                                            | A-VOCGMS06 | 0.340 | µg/m³     | <0.340               | ---     | <0.340       | ---              | <0.340       | ---              |  |                  |  |
| Tetrachlorometan                                           | A-VOCGMS06 | 0.300 | µg/m³     | <b>0.372</b>         | ± 30.0% | <b>0.338</b> | ± 30.0%          | <b>0.523</b> | ± 30.0%          |  |                  |  |
| Trichloroeten                                              | A-VOCGMS06 | 0.290 | µg/m³     | <0.290               | ---     | <0.290       | ---              | <0.290       | ---              |  |                  |  |
| <b>Niehalogenowane lotne związki organiczne</b>            |            |       |           |                      |         |              |                  |              |                  |  |                  |  |
| 1.4-dioksyna                                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 2-metyloheksan                                             | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.21</b>          | ± 30.0% | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 4-fenylcykloheksan                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Cykloheksan                                                | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.23</b>          | ± 30.0% | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Eter etylowotertbutylowy (ETBE)                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Eter tert-butylowo-metylowy (MTBE)                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| izooktan                                                   | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| metylocykloheksan                                          | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| metylocyklopentan                                          | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Tetrahydrofuran                                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 1.4-dioksyna                                               | A-VOCGMS06 | 0.290 | µg/m³     | <0.290               | ---     | <0.290       | ---              | <0.290       | ---              |  |                  |  |
| Cykloheksan                                                | A-VOCGMS06 | 0.370 | µg/m³     | <b>0.482</b>         | ± 30.0% | <0.370       | ---              | <0.370       | ---              |  |                  |  |
| Eter etylowotertbutylowy (ETBE)                            | A-VOCGMS06 | 0.330 | µg/m³     | <0.330               | ---     | <0.330       | ---              | <0.330       | ---              |  |                  |  |
| izooktan                                                   | A-VOCGMS06 | 0.360 | µg/m³     | <0.360               | ---     | <0.360       | ---              | <0.360       | ---              |  |                  |  |
| Eter tert-butylowo-metylowy (MTBE)                         | A-VOCGMS06 | 0.310 | µg/m³     | <0.310               | ---     | <0.310       | ---              | <0.310       | ---              |  |                  |  |
| metylocykloheksan                                          | A-VOCGMS06 | 0.300 | µg/m³     | <0.300               | ---     | <0.300       | ---              | <0.300       | ---              |  |                  |  |
| metylocyklopentan                                          | A-VOCGMS06 | 0.280 | µg/m³     | <0.280               | ---     | <0.280       | ---              | <0.280       | ---              |  |                  |  |
| Tetrahydrofuran                                            | A-VOCGMS06 | 0.270 | µg/m³     | <0.270               | ---     | <0.270       | ---              | <0.270       | ---              |  |                  |  |
| <b>Związki aromatyczne</b>                                 |            |       |           |                      |         |              |                  |              |                  |  |                  |  |
| 1.2.3-Trimetylobenzen                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.42</b>          | ± 45.0% | <b>0.24</b>  | ± 45.0%          | <b>0.34</b>  | ± 45.0%          |  |                  |  |
| 1.2.4.5-Tetrametylobenzen                                  | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 1.2.4-Trimetylobenzen                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 1.3.5-Trimetylobenzen                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.20</b>          | ± 45.0% | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 2-Etylotoluen                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 3-Etylotoluen                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.28</b>          | ± 45.0% | <0.20        | ---              | <b>0.23</b>  | ± 45.0%          |  |                  |  |
| 4-etylotoluen                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Frakcje aromatyczne > C8-C10                               | A-VOCGMS05 | 10    | µg/próbkę | <10                  | ---     | <10          | ---              | <10          | ---              |  |                  |  |
| Isopropylbenzene                                           | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| n-butylobenzen                                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| n-propylobenzen                                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| p-Isopropyltoluene                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| sec-butylobenzen                                           | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| Styren                                                     | A-VOCGMS05 | 0.20  | µg/próbkę | <1.60                | ---     | <1.60        | ---              | <1.60        | ---              |  |                  |  |
| tert-Butylobenzen                                          | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| 1.2.4-Trimetylobenzen                                      | A-VOCGMS06 | 0.400 | µg/m³     | <0.400               | ---     | <0.400       | ---              | <0.400       | ---              |  |                  |  |
| Isopropylbenzene                                           | A-VOCGMS06 | 0.340 | µg/m³     | <0.340               | ---     | <0.340       | ---              | <0.340       | ---              |  |                  |  |
| n-propylobenzen                                            | A-VOCGMS06 | 0.350 | µg/m³     | <0.350               | ---     | <0.350       | ---              | <0.350       | ---              |  |                  |  |



| Matryca badana: Emisja                                  |            |       |           | Numer próbki klienta<br>Identyfikator próbki<br>Data / godzina pobrania próbki przez Próbkiobiercę |         |                  | próbka zachód |                  | próbka północ |             | próbka południe |  |
|---------------------------------------------------------|------------|-------|-----------|----------------------------------------------------------------------------------------------------|---------|------------------|---------------|------------------|---------------|-------------|-----------------|--|
|                                                         |            |       |           |                                                                                                    |         |                  | PR21C2510001  |                  | PR21C2510002  |             | PR21C2510003    |  |
|                                                         |            |       |           | 13.12.2021 14:10                                                                                   |         | 13.12.2021 14:00 |               | 13.12.2021 14:20 |               |             |                 |  |
| Parametr                                                | Metoda     | LOR   | Jednostka | Wynik                                                                                              | NP      | Wynik            | NP            | Wynik            | NP            | Wynik       | NP              |  |
| <b>Związki aromatyczne - Kontynuacja</b>                |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| Styren                                                  | A-VOCGMS06 | 0.330 | µg/m³     | <2.64                                                                                              | ---     | <2.64            | ---           | <2.64            | ---           | <2.64       | ---             |  |
| <b>Wielopierścieniowe węglowodory aromatyczne (WWA)</b> |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| Naftalen                                                | A-VOCGMS05 | 2.0   | µg/próbkę | <b>5.5</b>                                                                                         | ± 45.0% | <b>3.7</b>       | ± 45.0%       | <b>4.8</b>       | ± 45.0%       | <b>4.8</b>  | ± 45.0%         |  |
| Naftalen                                                | A-VOCGMS06 | 7.90  | µg/m³     | <b>24.9</b>                                                                                        | ± 30.0% | <b>16.7</b>      | ± 30.0%       | <b>21.7</b>      | ± 30.0%       | <b>21.7</b> | ± 30.0%         |  |
| <b>Aldehydy / Ketony</b>                                |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| 2-butanon (MEK)                                         | A-VOCGMS05 | 0.40  | µg/próbkę | <b>0.67</b>                                                                                        | ± 45.0% | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| Aceton                                                  | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.69</b>                                                                                        | ± 40.0% | <b>0.62</b>      | ± 40.0%       | <b>0.74</b>      | ± 40.0%       | <b>0.74</b> | ± 40.0%         |  |
| Cykloheksanon                                           | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| heksanal                                                | A-VOCGMS05 | 1.2   | µg/próbkę | <1.2                                                                                               | ---     | <1.2             | ---           | <1.2             | ---           | <1.2        | ---             |  |
| methyl iso-butyl keton                                  | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| 2-butanon (MEK)                                         | A-VOCGMS06 | 0.500 | µg/m³     | <b>0.960</b>                                                                                       | ± 30.0% | <0.500           | ---           | <0.500           | ---           | <0.500      | ---             |  |
| Aceton                                                  | A-VOCGMS06 | 0.260 | µg/m³     | <b>1.01</b>                                                                                        | ± 30.0% | <b>0.911</b>     | ± 30.0%       | <b>1.09</b>      | ± 30.0%       | <b>1.09</b> | ± 30.0%         |  |
| Cykloheksanon                                           | A-VOCGMS06 | 0.580 | µg/m³     | <0.580                                                                                             | ---     | <0.580           | ---           | <0.580           | ---           | <0.580      | ---             |  |
| methyl iso-butyl keton                                  | A-VOCGMS06 | 0.590 | µg/m³     | <0.590                                                                                             | ---     | <0.590           | ---           | <0.590           | ---           | <0.590      | ---             |  |
| <b>Alkohole / Estry</b>                                 |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| 2-butanol                                               | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| 2-Etyloheksanol                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| 2-metyl-1-butanol                                       | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| 2-propanol                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| Etanol                                                  | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| izobutanol                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| n-Butanol                                               | A-VOCGMS05 | 0.30  | µg/próbkę | <0.30                                                                                              | ---     | <0.30            | ---           | <0.30            | ---           | <0.30       | ---             |  |
| n-propanol                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| Octan etylu                                             | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| Octan izobutyli                                         | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| Octan n-butyli                                          | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| Octan winylu                                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| tert-butyli Octan                                       | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| 2-Etyloheksanol                                         | A-VOCGMS06 | 0.460 | µg/m³     | <0.460                                                                                             | ---     | <0.460           | ---           | <0.460           | ---           | <0.460      | ---             |  |
| 2-propanol                                              | A-VOCGMS06 | 0.380 | µg/m³     | <0.380                                                                                             | ---     | <0.380           | ---           | <0.380           | ---           | <0.380      | ---             |  |
| Etanol                                                  | A-VOCGMS06 | 1.90  | µg/m³     | <1.90                                                                                              | ---     | <1.90            | ---           | <1.90            | ---           | <1.90       | ---             |  |
| Octan etylu                                             | A-VOCGMS06 | 0.510 | µg/m³     | <0.510                                                                                             | ---     | <0.510           | ---           | <0.510           | ---           | <0.510      | ---             |  |
| izobutanol                                              | A-VOCGMS06 | 0.260 | µg/m³     | <0.260                                                                                             | ---     | <0.260           | ---           | <0.260           | ---           | <0.260      | ---             |  |
| Octan izobutyli                                         | A-VOCGMS06 | 0.630 | µg/m³     | <0.630                                                                                             | ---     | <0.630           | ---           | <0.630           | ---           | <0.630      | ---             |  |
| n-Butanol                                               | A-VOCGMS06 | 0.400 | µg/m³     | <0.400                                                                                             | ---     | <0.400           | ---           | <0.400           | ---           | <0.400      | ---             |  |
| Octan n-butyli                                          | A-VOCGMS06 | 0.660 | µg/m³     | <0.660                                                                                             | ---     | <0.660           | ---           | <0.660           | ---           | <0.660      | ---             |  |
| 2-butanol                                               | A-VOCGMS06 | 0.620 | µg/m³     | <0.620                                                                                             | ---     | <0.620           | ---           | <0.620           | ---           | <0.620      | ---             |  |
| <b>Terpeny</b>                                          |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| 3-karen                                                 | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| Alfa-pinen                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| Alfa-terpinen                                           | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| Beta-pinen                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |
| Limonene                                                | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40                                                                                              | ---     | <0.40            | ---           | <0.40            | ---           | <0.40       | ---             |  |
| <b>Terpeny</b>                                          |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| Alfa-pinen                                              | A-VOCGMS06 | 0.370 | µg/m³     | <0.370                                                                                             | ---     | <0.370           | ---           | <0.370           | ---           | <0.370      | ---             |  |
| Limonene                                                | A-VOCGMS06 | 0.920 | µg/m³     | <0.920                                                                                             | ---     | <0.920           | ---           | <0.920           | ---           | <0.920      | ---             |  |
| <b>Węglowodory ropopochodne</b>                         |            |       |           |                                                                                                    |         |                  |               |                  |               |             |                 |  |
| C10-C11 frakcja                                         | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| C6 - C7 frakcja                                         | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| C7 - C8 frakcja                                         | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| C8 - C9 frakcja                                         | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| C9 - C10 frakcja                                        | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| Frakcja alifatyczna > C10-C12                           | A-VOCGMS05 | 10    | µg/próbkę | <10                                                                                                | ---     | <10              | ---           | <10              | ---           | <10         | ---             |  |
| Frakcja alifatyczna > C6-C8                             | A-VOCGMS05 | 10    | µg/próbkę | <10                                                                                                | ---     | <10              | ---           | <10              | ---           | <10         | ---             |  |
| Frakcja alifatyczna > C8-C10                            | A-VOCGMS05 | 10    | µg/próbkę | <10                                                                                                | ---     | <10              | ---           | <10              | ---           | <10         | ---             |  |
| Frakcja C11 - C12                                       | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| Frakcja C12 - C13                                       | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0                                                                                               | ---     | <2.0             | ---           | <2.0             | ---           | <2.0        | ---             |  |
| n-dekanu                                                | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20                                                                                              | ---     | <0.20            | ---           | <0.20            | ---           | <0.20       | ---             |  |



| Matryca badana: Emisja                             |            |       |                   | Numer próbki klienta |         |              | próbka zachód    |              | próbka północ    |  | próbka południe  |  |
|----------------------------------------------------|------------|-------|-------------------|----------------------|---------|--------------|------------------|--------------|------------------|--|------------------|--|
|                                                    |            |       |                   | Identyfikator próbki |         |              | PR21C2510001     |              | PR21C2510002     |  | PR21C2510003     |  |
| Data / godzina pobrania próbki przez Próbkiobiorcę |            |       |                   |                      |         |              | 13.12.2021 14:10 |              | 13.12.2021 14:00 |  | 13.12.2021 14:20 |  |
| Parametr                                           | Metoda     | LOR   | Jednostka         | Wynik                | NP      | Wynik        | NP               | Wynik        | NP               |  |                  |  |
| <b>Węglowodory ropopochodne - Kontynuacja</b>      |            |       |                   |                      |         |              |                  |              |                  |  |                  |  |
| n-dodekan                                          | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| n-heksadekan                                       | A-VOCGMS05 | 0.20  | µg/próbkę         | <b>0.36</b>          | ± 30.0% | <b>0.39</b>  | ± 30.0%          | <b>0.49</b>  | ± 30.0%          |  |                  |  |
| n-heksan                                           | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | <0.40        | ---              | <0.40        | ---              |  |                  |  |
| n-heptan                                           | A-VOCGMS05 | 0.20  | µg/próbkę         | <b>0.26</b>          | ± 30.0% | <b>0.21</b>  | ± 30.0%          | <b>0.20</b>  | ± 30.0%          |  |                  |  |
| N-nonan                                            | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| n-Octane                                           | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| n-pentan                                           | A-VOCGMS05 | 1.0   | µg/próbkę         | <b>1.8</b>           | ± 45.0% | <b>2.0</b>   | ± 45.0%          | <b>1.4</b>   | ± 45.0%          |  |                  |  |
| n-tetradekan                                       | A-VOCGMS05 | 0.20  | µg/próbkę         | <b>0.34</b>          | ± 30.0% | <b>0.29</b>  | ± 30.0%          | <b>0.40</b>  | ± 30.0%          |  |                  |  |
| n-tridekan                                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| n-undekan                                          | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | <0.20        | ---              | <0.20        | ---              |  |                  |  |
| C10-C11 frakcja                                    | A-VOCGMS06 | 4.60  | µg/m <sup>3</sup> | <4.60                | ---     | <4.60        | ---              | <4.60        | ---              |  |                  |  |
| Frakcja C11 - C12                                  | A-VOCGMS06 | 8.30  | µg/m <sup>3</sup> | <8.30                | ---     | <8.30        | ---              | <8.30        | ---              |  |                  |  |
| Frakcja C12 - C13                                  | A-VOCGMS06 | 25.0  | µg/m <sup>3</sup> | <25.0                | ---     | <25.0        | ---              | <25.0        | ---              |  |                  |  |
| C6 - C7 frakcja                                    | A-VOCGMS06 | 3.00  | µg/m <sup>3</sup> | <3.00                | ---     | <3.00        | ---              | <3.00        | ---              |  |                  |  |
| C7 - C8 frakcja                                    | A-VOCGMS06 | 3.40  | µg/m <sup>3</sup> | <3.40                | ---     | <3.40        | ---              | <3.40        | ---              |  |                  |  |
| C8 - C9 frakcja                                    | A-VOCGMS06 | 3.70  | µg/m <sup>3</sup> | <3.70                | ---     | <3.70        | ---              | <3.70        | ---              |  |                  |  |
| C9 - C10 frakcja                                   | A-VOCGMS06 | 4.10  | µg/m <sup>3</sup> | <4.10                | ---     | <4.10        | ---              | <4.10        | ---              |  |                  |  |
| n-dekanu                                           | A-VOCGMS06 | 0.460 | µg/m <sup>3</sup> | <0.460               | ---     | <0.460       | ---              | <0.460       | ---              |  |                  |  |
| n-dodekan                                          | A-VOCGMS06 | 2.50  | µg/m <sup>3</sup> | <2.50                | ---     | <2.50        | ---              | <2.50        | ---              |  |                  |  |
| n-heptan                                           | A-VOCGMS06 | 0.340 | µg/m <sup>3</sup> | <b>0.507</b>         | ± 30.0% | <b>0.410</b> | ± 30.0%          | <b>0.390</b> | ± 30.0%          |  |                  |  |
| n-heksan                                           | A-VOCGMS06 | 0.600 | µg/m <sup>3</sup> | <0.600               | ---     | <0.600       | ---              | <0.600       | ---              |  |                  |  |
| N-nonan                                            | A-VOCGMS06 | 0.410 | µg/m <sup>3</sup> | <0.410               | ---     | <0.410       | ---              | <0.410       | ---              |  |                  |  |
| n-Octane                                           | A-VOCGMS06 | 0.370 | µg/m <sup>3</sup> | <0.370               | ---     | <0.370       | ---              | <0.370       | ---              |  |                  |  |
| n-pentan                                           | A-VOCGMS06 | 1.30  | µg/m <sup>3</sup> | <b>2.75</b>          | ± 30.0% | <b>3.06</b>  | ± 30.0%          | <b>2.14</b>  | ± 30.0%          |  |                  |  |
| n-undekan                                          | A-VOCGMS06 | 0.830 | µg/m <sup>3</sup> | <0.830               | ---     | <0.830       | ---              | <0.830       | ---              |  |                  |  |

| Matryca badana: Emisja                             |            |       |                   | Numer próbki klienta |         |       | próbka wschód    |       | ---- |  | ---- |  |
|----------------------------------------------------|------------|-------|-------------------|----------------------|---------|-------|------------------|-------|------|--|------|--|
|                                                    |            |       |                   | Identyfikator próbki |         |       | PR21C2510004     |       | ---- |  | ---- |  |
| Data / godzina pobrania próbki przez Próbkiobiorcę |            |       |                   |                      |         |       | 13.12.2021 14:40 |       | ---- |  | ---- |  |
| Parametr                                           | Metoda     | LOR   | Jednostka         | Wynik                | NP      | Wynik | NP               | Wynik | NP   |  |      |  |
| <b>BTEX</b>                                        |            |       |                   |                      |         |       |                  |       |      |  |      |  |
| Benzen                                             | A-VOCGMS05 | 0.10  | µg/próbkę         | <b>2.98</b>          | ± 25.0% | ----  | ----             | ----  | ---- |  |      |  |
| Toluen                                             | A-VOCGMS05 | 0.10  | µg/próbkę         | <b>2.41</b>          | ± 20.0% | ----  | ----             | ----  | ---- |  |      |  |
| Etylobenzen                                        | A-VOCGMS05 | 0.10  | µg/próbkę         | <b>0.43</b>          | ± 20.0% | ----  | ----             | ----  | ---- |  |      |  |
| Meta- i para ksylen                                | A-VOCGMS05 | 0.10  | µg/próbkę         | <b>1.31</b>          | ± 20.0% | ----  | ----             | ----  | ---- |  |      |  |
| Orto-ksylen                                        | A-VOCGMS05 | 0.10  | µg/próbkę         | <b>0.46</b>          | ± 20.0% | ----  | ----             | ----  | ---- |  |      |  |
| Suma BTEX                                          | A-VOCGMS05 | 0.50  | µg/próbkę         | <b>7.59</b>          | ---     | ----  | ----             | ----  | ---- |  |      |  |
| Suma TEX                                           | A-VOCGMS05 | 0.40  | µg/próbkę         | <b>4.61</b>          | ---     | ----  | ----             | ----  | ---- |  |      |  |
| Suma ksylenów                                      | A-VOCGMS05 | 0.20  | µg/próbkę         | <b>1.77</b>          | ---     | ----  | ----             | ----  | ---- |  |      |  |
| Benzen                                             | A-VOCGMS06 | 0.120 | µg/m <sup>3</sup> | <b>4.21</b>          | ± 30.0% | ----  | ----             | ----  | ---- |  |      |  |
| Etylobenzen                                        | A-VOCGMS06 | 0.150 | µg/m <sup>3</sup> | <b>0.715</b>         | ± 30.0% | ----  | ----             | ----  | ---- |  |      |  |
| Meta- i para ksylen                                | A-VOCGMS06 | 0.140 | µg/m <sup>3</sup> | <b>2.12</b>          | ± 30.0% | ----  | ----             | ----  | ---- |  |      |  |
| Orto-ksylen                                        | A-VOCGMS06 | 0.150 | µg/m <sup>3</sup> | <b>0.800</b>         | ± 30.0% | ----  | ----             | ----  | ---- |  |      |  |
| Suma ksylenów                                      | A-VOCGMS06 | 0.290 | µg/m <sup>3</sup> | <b>2.94</b>          | ± 30.0% | ----  | ----             | ----  | ---- |  |      |  |
| Toluen                                             | A-VOCGMS06 | 0.130 | µg/m <sup>3</sup> | <b>3.68</b>          | ± 30.0% | ----  | ----             | ----  | ---- |  |      |  |
| <b>Halogenowane lotne związki organiczne</b>       |            |       |                   |                      |         |       |                  |       |      |  |      |  |
| 1.1.1.2-Tetrachloroetan                            | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1.1-Trichloroetan                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1.2.2-Tetrachloroetan                            | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1.2-Trichloroetan                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1-Dichloroetan                                   | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1-Dichloroeten                                   | A-VOCGMS06 | 0.250 | µg/m <sup>3</sup> | <0.250               | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1-Dichloroeten                                   | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.1-Dichloropropene                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.2.3-Trichlorobenzen                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |
| 1.2.3-Trichloropropan                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----  | ----             | ----  | ---- |  |      |  |



Matryca badana: Emisja

Numer próbki klienta

próbka wschód

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Identyfikator próbki

PR21C2510004

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Data / godzina pobrania próbki przez Próbkiobiercę

13.12.2021 14:40

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| Parametr                                                   | Metoda     | LOR   | Jednostka | Wynik        | NP      | Wynik | NP  | Wynik | NP  |
|------------------------------------------------------------|------------|-------|-----------|--------------|---------|-------|-----|-------|-----|
| <b>Halogenowane lotne związki organiczne - Kontynuacja</b> |            |       |           |              |         |       |     |       |     |
| 1.2.4-Trichlorobenzen                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.2-Dibromo-3-Chloropropan                                 | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.2-Dibromoetan (EDB)                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.2-Dichlorobenzen                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.2-Dichloroetan                                           | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.2-Dichloropropan                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.3.5-Trichlorobenzen                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.3-Dichlorobenzen                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.3-Dichloropropan                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 1.4-Dichlorobenzen                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 2.2-Dichloropropan                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 2-chlorotoluen                                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 4-Chlorotoluen                                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Bromobenzen                                                | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Bromochloromethane                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Bromodichlorometan                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Bromoform                                                  | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Bromometan                                                 | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Chlorek winylu                                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Chlorobenzen                                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Chloroethane                                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Chloroform                                                 | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Chlorometan                                                | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| cis-1.2-Dichloroeten                                       | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Cis-1.3-Dichloropropen                                     | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Dibromochlorometan                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Dibromometan                                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Dichlorodifluorometan                                      | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Dichlorometan                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Hexachlorobutadiene                                        | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Tetrachloroeten                                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Tetrachlorometan                                           | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.20</b>  | ± 30.0% | ----  | --- | ----  | --- |
| Trans-1,2-dichloroeten                                     | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Trans-1,3-dichloropropen                                   | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Trichloroeten                                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Trichlorofluorometan                                       | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.29</b>  | ± 30.0% | ----  | --- | ----  | --- |
| 1.1.1-Trichloroetan                                        | A-VOCGMS06 | 0.320 | µg/m³     | <0.320       | ---     | ----  | --- | ----  | --- |
| 1.2-Dichloroetan                                           | A-VOCGMS06 | 0.260 | µg/m³     | <0.260       | ---     | ----  | --- | ----  | --- |
| 1.2-Dichloropropan                                         | A-VOCGMS06 | 0.300 | µg/m³     | <0.300       | ---     | ----  | --- | ----  | --- |
| 1.4-Dichlorobenzen                                         | A-VOCGMS06 | 0.390 | µg/m³     | <0.390       | ---     | ----  | --- | ----  | --- |
| cis-1.2-Dichloroeten                                       | A-VOCGMS06 | 0.250 | µg/m³     | <0.250       | ---     | ----  | --- | ----  | --- |
| Trans-1,2-dichloroeten                                     | A-VOCGMS06 | 0.250 | µg/m³     | <0.250       | ---     | ----  | --- | ----  | --- |
| Bromochloromethane                                         | A-VOCGMS06 | 0.280 | µg/m³     | <0.280       | ---     | ----  | --- | ----  | --- |
| Dichlorometan                                              | A-VOCGMS06 | 0.220 | µg/m³     | <0.220       | ---     | ----  | --- | ----  | --- |
| Chlorobenzen                                               | A-VOCGMS06 | 0.290 | µg/m³     | <0.290       | ---     | ----  | --- | ----  | --- |
| Chloroform                                                 | A-VOCGMS06 | 0.260 | µg/m³     | <0.260       | ---     | ----  | --- | ----  | --- |
| Tetrachloroeten                                            | A-VOCGMS06 | 0.340 | µg/m³     | <0.340       | ---     | ----  | --- | ----  | --- |
| Tetrachlorometan                                           | A-VOCGMS06 | 0.300 | µg/m³     | <b>0.337</b> | ± 30.0% | ----  | --- | ----  | --- |
| Trichloroeten                                              | A-VOCGMS06 | 0.290 | µg/m³     | <0.290       | ---     | ----  | --- | ----  | --- |
| <b>Niehalogenowane lotne związki organiczne</b>            |            |       |           |              |         |       |     |       |     |
| 1.4-dioksyna                                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 2-metyloheksan                                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| 4-fenylcykloheksen                                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Cykloheksan                                                | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Eter etylowotertbutylowy (ETBE)                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| Eter tert-butylowo-metylowy (MTBE)                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |
| izooktan                                                   | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20        | ---     | ----  | --- | ----  | --- |



| Matryca badana: Emisja                                        |            |       |                   | Numer próbki klienta |         | próbka wschód |     |       |     |
|---------------------------------------------------------------|------------|-------|-------------------|----------------------|---------|---------------|-----|-------|-----|
|                                                               |            |       |                   | Identyfikator próbki |         | PR21C2510004  |     |       |     |
| Data / godzina pobrania próbki przez Próbkiobiercę            |            |       |                   | 13.12.2021 14:40     |         |               |     |       |     |
| Parametr                                                      | Metoda     | LOR   | Jednostka         | Wynik                | NP      | Wynik         | NP  | Wynik | NP  |
| <b>Niehalogenowane lotne związki organiczne - Kontynuacja</b> |            |       |                   |                      |         |               |     |       |     |
| metylocykloheksan                                             | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| metylocyklopentan                                             | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| Tetrahydrofuran                                               | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 1.4-dioksyna                                                  | A-VOCGMS06 | 0.290 | µg/m <sup>3</sup> | <0.290               | ---     | ----          | --- | ----  | --- |
| Cykloheksan                                                   | A-VOCGMS06 | 0.370 | µg/m <sup>3</sup> | <0.370               | ---     | ----          | --- | ----  | --- |
| Eter etyloawterbutylowy (ETBE)                                | A-VOCGMS06 | 0.330 | µg/m <sup>3</sup> | <0.330               | ---     | ----          | --- | ----  | --- |
| izooktan                                                      | A-VOCGMS06 | 0.360 | µg/m <sup>3</sup> | <0.360               | ---     | ----          | --- | ----  | --- |
| Eter tert-butylowo-metylowy (MTBE)                            | A-VOCGMS06 | 0.310 | µg/m <sup>3</sup> | <0.310               | ---     | ----          | --- | ----  | --- |
| metylocykloheksan                                             | A-VOCGMS06 | 0.300 | µg/m <sup>3</sup> | <0.300               | ---     | ----          | --- | ----  | --- |
| metylocyklopentan                                             | A-VOCGMS06 | 0.280 | µg/m <sup>3</sup> | <0.280               | ---     | ----          | --- | ----  | --- |
| Tetrahydrofuran                                               | A-VOCGMS06 | 0.270 | µg/m <sup>3</sup> | <0.270               | ---     | ----          | --- | ----  | --- |
| <b>Związki aromatyczne</b>                                    |            |       |                   |                      |         |               |     |       |     |
| 1.2.3-Trimetylobenzen                                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <b>0.28</b>          | ± 45.0% | ----          | --- | ----  | --- |
| 1.2.4.5-Tetrametylobenzen                                     | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 1.2.4-Trimetylobenzen                                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 1.3.5-Trimetylobenzen                                         | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 2-Etylotoluen                                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 3-Etylotoluen                                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 4-etylotoluen                                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| Fracje aromatyczne > C8-C10                                   | A-VOCGMS05 | 10    | µg/próbkę         | <10                  | ---     | ----          | --- | ----  | --- |
| Isopropylbenzene                                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| n-butylbenzen                                                 | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| n-propylbenzen                                                | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| p-Isopropyltoluene                                            | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| sec-butylbenzen                                               | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| Styren                                                        | A-VOCGMS05 | 0.20  | µg/próbkę         | <1.60                | ---     | ----          | --- | ----  | --- |
| tert-Butylbenzen                                              | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 1.2.4-Trimetylobenzen                                         | A-VOCGMS06 | 0.400 | µg/m <sup>3</sup> | <0.400               | ---     | ----          | --- | ----  | --- |
| Isopropylbenzene                                              | A-VOCGMS06 | 0.340 | µg/m <sup>3</sup> | <0.340               | ---     | ----          | --- | ----  | --- |
| n-propylbenzen                                                | A-VOCGMS06 | 0.350 | µg/m <sup>3</sup> | <0.350               | ---     | ----          | --- | ----  | --- |
| Styren                                                        | A-VOCGMS06 | 0.330 | µg/m <sup>3</sup> | <2.64                | ---     | ----          | --- | ----  | --- |
| <b>Wielopierścieniowe węglowodory aromatyczne (WWA)</b>       |            |       |                   |                      |         |               |     |       |     |
| Naftalen                                                      | A-VOCGMS05 | 2.0   | µg/próbkę         | <b>5.3</b>           | ± 45.0% | ----          | --- | ----  | --- |
| Naftalen                                                      | A-VOCGMS06 | 7.90  | µg/m <sup>3</sup> | <b>24.0</b>          | ± 30.0% | ----          | --- | ----  | --- |
| <b>Aldehydy / Ketony</b>                                      |            |       |                   |                      |         |               |     |       |     |
| 2-butanon (MEK)                                               | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| Aceton                                                        | A-VOCGMS05 | 0.20  | µg/próbkę         | <b>0.73</b>          | ± 40.0% | ----          | --- | ----  | --- |
| Cykloheksanon                                                 | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| heksanal                                                      | A-VOCGMS05 | 1.2   | µg/próbkę         | <1.2                 | ---     | ----          | --- | ----  | --- |
| methyl iso-butyl keton                                        | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| 2-butanon (MEK)                                               | A-VOCGMS06 | 0.500 | µg/m <sup>3</sup> | <0.500               | ---     | ----          | --- | ----  | --- |
| Aceton                                                        | A-VOCGMS06 | 0.260 | µg/m <sup>3</sup> | <b>1.07</b>          | ± 30.0% | ----          | --- | ----  | --- |
| Cykloheksanon                                                 | A-VOCGMS06 | 0.580 | µg/m <sup>3</sup> | <0.580               | ---     | ----          | --- | ----  | --- |
| methyl iso-butyl keton                                        | A-VOCGMS06 | 0.590 | µg/m <sup>3</sup> | <0.590               | ---     | ----          | --- | ----  | --- |
| <b>Alkohole / Estry</b>                                       |            |       |                   |                      |         |               |     |       |     |
| 2-butanol                                                     | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| 2-Etyloheksanol                                               | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 2-metyl-1-butanol                                             | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| 2-propanol                                                    | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| Etanol                                                        | A-VOCGMS05 | 2.0   | µg/próbkę         | <2.0                 | ---     | ----          | --- | ----  | --- |
| izobutanol                                                    | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| n-Butanol                                                     | A-VOCGMS05 | 0.30  | µg/próbkę         | <0.30                | ---     | ----          | --- | ----  | --- |
| n-propanol                                                    | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |
| Octan etylu                                                   | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| Octan izobutyly                                               | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| Octan n-butyly                                                | A-VOCGMS05 | 0.40  | µg/próbkę         | <0.40                | ---     | ----          | --- | ----  | --- |
| Octan winylu                                                  | A-VOCGMS05 | 0.20  | µg/próbkę         | <0.20                | ---     | ----          | --- | ----  | --- |



Matryca badana: Emisja

Numer próbki klienta

próbka wschód

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Identyfikator próbki

PR21C2510004

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Data / godzina pobrania próbki przez Próbkiobiercę

13.12.2021 14:40

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| Parametr                              | Metoda     | LOR   | Jednostka | Wynik       | NP      | Wynik | NP  | Wynik | NP  |
|---------------------------------------|------------|-------|-----------|-------------|---------|-------|-----|-------|-----|
| <b>Alkohole / Estry - Kontynuacja</b> |            |       |           |             |         |       |     |       |     |
| tert-butylu Octan                     | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| 2-Etyloheksanol                       | A-VOCGMS06 | 0.460 | µg/m³     | <0.460      | ---     | ----  | --- | ----  | --- |
| 2-propanol                            | A-VOCGMS06 | 0.380 | µg/m³     | <0.380      | ---     | ----  | --- | ----  | --- |
| Etanol                                | A-VOCGMS06 | 1.90  | µg/m³     | <1.90       | ---     | ----  | --- | ----  | --- |
| Octan etylu                           | A-VOCGMS06 | 0.510 | µg/m³     | <0.510      | ---     | ----  | --- | ----  | --- |
| izobutanol                            | A-VOCGMS06 | 0.260 | µg/m³     | <0.260      | ---     | ----  | --- | ----  | --- |
| Octan izobutyly                       | A-VOCGMS06 | 0.630 | µg/m³     | <0.630      | ---     | ----  | --- | ----  | --- |
| n-Butanol                             | A-VOCGMS06 | 0.400 | µg/m³     | <0.400      | ---     | ----  | --- | ----  | --- |
| Octan n-butyly                        | A-VOCGMS06 | 0.660 | µg/m³     | <0.660      | ---     | ----  | --- | ----  | --- |
| 2-butanol                             | A-VOCGMS06 | 0.620 | µg/m³     | <0.620      | ---     | ----  | --- | ----  | --- |
| <b>Terpeny</b>                        |            |       |           |             |         |       |     |       |     |
| 3-karen                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| Alfa-pinen                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| Alfa-terpinen                         | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| Beta-pinen                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| Limonene                              | A-VOCGMS05 | 0.40  | µg/próbkę | <0.40       | ---     | ----  | --- | ----  | --- |
| <b>Terpeny</b>                        |            |       |           |             |         |       |     |       |     |
| Alfa-pinen                            | A-VOCGMS06 | 0.370 | µg/m³     | <0.370      | ---     | ----  | --- | ----  | --- |
| Limonene                              | A-VOCGMS06 | 0.920 | µg/m³     | <0.920      | ---     | ----  | --- | ----  | --- |
| <b>Węglowodory ropopochodne</b>       |            |       |           |             |         |       |     |       |     |
| C10-C11 frakcja                       | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| C6 - C7 frakcja                       | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| C7 - C8 frakcja                       | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| C8 - C9 frakcja                       | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| C9 - C10 frakcja                      | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| Frakcja alifatyczna > C10-C12         | A-VOCGMS05 | 10    | µg/próbkę | <10         | ---     | ----  | --- | ----  | --- |
| Frakcja alifatyczna > C6-C8           | A-VOCGMS05 | 10    | µg/próbkę | <10         | ---     | ----  | --- | ----  | --- |
| Frakcja alifatyczna > C8-C10          | A-VOCGMS05 | 10    | µg/próbkę | <10         | ---     | ----  | --- | ----  | --- |
| Frakcja C11 - C12                     | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| Frakcja C12 - C13                     | A-VOCGMS05 | 2.0   | µg/próbkę | <2.0        | ---     | ----  | --- | ----  | --- |
| n-dekanu                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| n-dodekan                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| n-heksadekan                          | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.45</b> | ± 30.0% | ----  | --- | ----  | --- |
| n-heksan                              | A-VOCGMS05 | 0.40  | µg/próbkę | <b>0.75</b> | ± 35.0% | ----  | --- | ----  | --- |
| n-heptan                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| N-nonan                               | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| n-Octane                              | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| n-pentan                              | A-VOCGMS05 | 1.0   | µg/próbkę | <b>1.8</b>  | ± 45.0% | ----  | --- | ----  | --- |
| n-tetradekan                          | A-VOCGMS05 | 0.20  | µg/próbkę | <b>0.29</b> | ± 30.0% | ----  | --- | ----  | --- |
| n-tridekan                            | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| n-undekan                             | A-VOCGMS05 | 0.20  | µg/próbkę | <0.20       | ---     | ----  | --- | ----  | --- |
| C10-C11 frakcja                       | A-VOCGMS06 | 4.60  | µg/m³     | <4.60       | ---     | ----  | --- | ----  | --- |
| Frakcja C11 - C12                     | A-VOCGMS06 | 8.30  | µg/m³     | <8.30       | ---     | ----  | --- | ----  | --- |
| Frakcja C12 - C13                     | A-VOCGMS06 | 25.0  | µg/m³     | <25.0       | ---     | ----  | --- | ----  | --- |
| C6 - C7 frakcja                       | A-VOCGMS06 | 3.00  | µg/m³     | <3.00       | ---     | ----  | --- | ----  | --- |
| C7 - C8 frakcja                       | A-VOCGMS06 | 3.40  | µg/m³     | <3.40       | ---     | ----  | --- | ----  | --- |
| C8 - C9 frakcja                       | A-VOCGMS06 | 3.70  | µg/m³     | <3.70       | ---     | ----  | --- | ----  | --- |
| C9 - C10 frakcja                      | A-VOCGMS06 | 4.10  | µg/m³     | <4.10       | ---     | ----  | --- | ----  | --- |
| n-dekanu                              | A-VOCGMS06 | 0.460 | µg/m³     | <0.460      | ---     | ----  | --- | ----  | --- |
| n-dodekan                             | A-VOCGMS06 | 2.50  | µg/m³     | <2.50       | ---     | ----  | --- | ----  | --- |
| n-heptan                              | A-VOCGMS06 | 0.340 | µg/m³     | <0.340      | ---     | ----  | --- | ----  | --- |
| n-heksan                              | A-VOCGMS06 | 0.600 | µg/m³     | <b>1.28</b> | ± 30.0% | ----  | --- | ----  | --- |
| N-nonan                               | A-VOCGMS06 | 0.410 | µg/m³     | <0.410      | ---     | ----  | --- | ----  | --- |
| n-Octane                              | A-VOCGMS06 | 0.370 | µg/m³     | <0.370      | ---     | ----  | --- | ----  | --- |
| n-pentan                              | A-VOCGMS06 | 1.30  | µg/m³     | <b>2.75</b> | ± 30.0% | ----  | --- | ----  | --- |
| n-undekan                             | A-VOCGMS06 | 0.830 | µg/m³     | <0.830      | ---     | ----  | --- | ----  | --- |

Gdy data i/lub czas jest przedstawiony w nawiasie, oznacza to że został on oszacowany przez laboratorium dla celów analitycznych. Jeśli czas



Data sprzedaży : 23.12.2021  
Strona : 9 z 9  
Zlecenie : PR21C2510  
Odbiorca : REMEA Sp. z o.o.



przygotowania próbki jest wyświetlony jako 0:00 - to informacja ta nie została przekazana przez klienta. Niepewność pomiarowa jest wyrażona jako rozszerzona niepewność pomiarowa powiększona o współczynnik  $k = 2$ , reprezentującego 95% poziomu ufności.

Klucz: LOR = Limit raportowania; NP = Niepewność pomiarowa. .

## Koniec wyników analiz

### Podsumowanie zastosowanych metod

| Metody analityczne                                                                          | Opis metody                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Miejsce wykonania analizy: Na Harfe 336/9 Praha 9 - Vysočany Republika Czeska 190 00</i> |                                                                                                                                                                                                                                          |
| A-VOCGMS05                                                                                  | CZ_SOP_D06_03_153 (NIOSH) Oznaczanie lotnych związków organicznych metodą chromatografii gazowej z detekcją FID i MS i obliczanie sumy lotnych związków organicznych ze zmierzonych wartości i przeliczenie na objętość powietrza.       |
| A-VOCGMS06                                                                                  | CZ_SOP_D06_03_153 (NIOSH) Oznaczanie lotnych związków organicznych metodą chromatografii gazowej z detekcją FID i MS oraz obliczenie sumy lotnych związków organicznych ze zmierzonych wartości oraz przeliczenie na objętość powietrza. |

Symbol `` poprzedzający metodę oznacza brak akredytacji w przypadku naszego laboratorium i podwykonawców. W wypadku gdy procedura należąca do metody akredytowanej została użyta do nieakredytowanej matrycy. Oznacza to, że uzyskane wyniki nie posiadają akredytacji. Proszę zapoznać się z ogólnymi uwagami na pierwszej stronie. Jeśli na raporcie znajdują się wyniki analiz podzlecanych, to te analizy zostały wykonane poza laboratoriami ALS Czech Republic, s.r.o.

Zasady obliczeń i sumowania parametrów dostępne są na życzenie w Dziale Obsługi Klienta