

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC051425AL\  
 Data File : FC068862.D  
 Signal(s) : FID1A.ch  
 Acq On : 14 May 2025 11:41  
 Operator : YP/AJ  
 Sample : 20 PPM ALIPHATIC HC STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 FID\_C  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 05/15/2025  
 Supervised By :mohammad ahmed 05/16/2025

Integration File: autoint1.e  
 Quant Time: May 14 12:19:13 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Aliphatic EPH 050625.M  
 Quant Title : GC Extractables  
 QLast Update : Wed May 07 08:52:03 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 9) S ortho-Terphenyl (SURR)    | 11.707 | 2148293    | 18.822 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 37.64%        |
| 12) S 1-chlorooctadecane (S... | 13.139 | 1589031    | 19.807 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 39.61%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.440  | 1724024    | 17.141 ug/ml  |
| 2) T n-Decane (C10)            | 4.515  | 1781024    | 17.874 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.112  | 1925431    | 17.462 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.540  | 1793706    | 18.458 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.170  | 1905861    | 17.757 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.337  | 1777563    | 19.233 ug/ml  |
| 7) T n-Hexadecane (C16)        | 9.940  | 1785852    | 19.944 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.383 | 1773970    | 20.224 ug/ml  |
| 10) T n-Eicosane (C20)         | 12.693 | 1729111    | 20.290 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.305 | 1705376    | 20.219 ug/ml  |
| 13) T n-Docosane (C22)         | 13.891 | 1696597    | 20.280 ug/ml  |
| 14) T n-Tetracosane (C24)      | 14.996 | 1694233    | 20.362 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.017 | 1687931    | 20.372 ug/ml  |
| 16) T n-Octacosane (C28)       | 16.968 | 1787829    | 21.632 ug/ml  |
| 17) T n-Tricontane (C30)       | 17.856 | 2048983    | 24.216 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 18.689 | 2137111    | 24.811 ug/mlm |
| 19) T n-Tetratriacontane (C34) | 19.474 | 2014149    | 23.640 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.214 | 1923353    | 22.378 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 20.987 | 1832061    | 21.840 ug/ml  |
| 22) T n-Tetracontane (C40)     | 21.962 | 1775610    | 21.665 ug/ml  |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

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Operator : YP/AJ  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

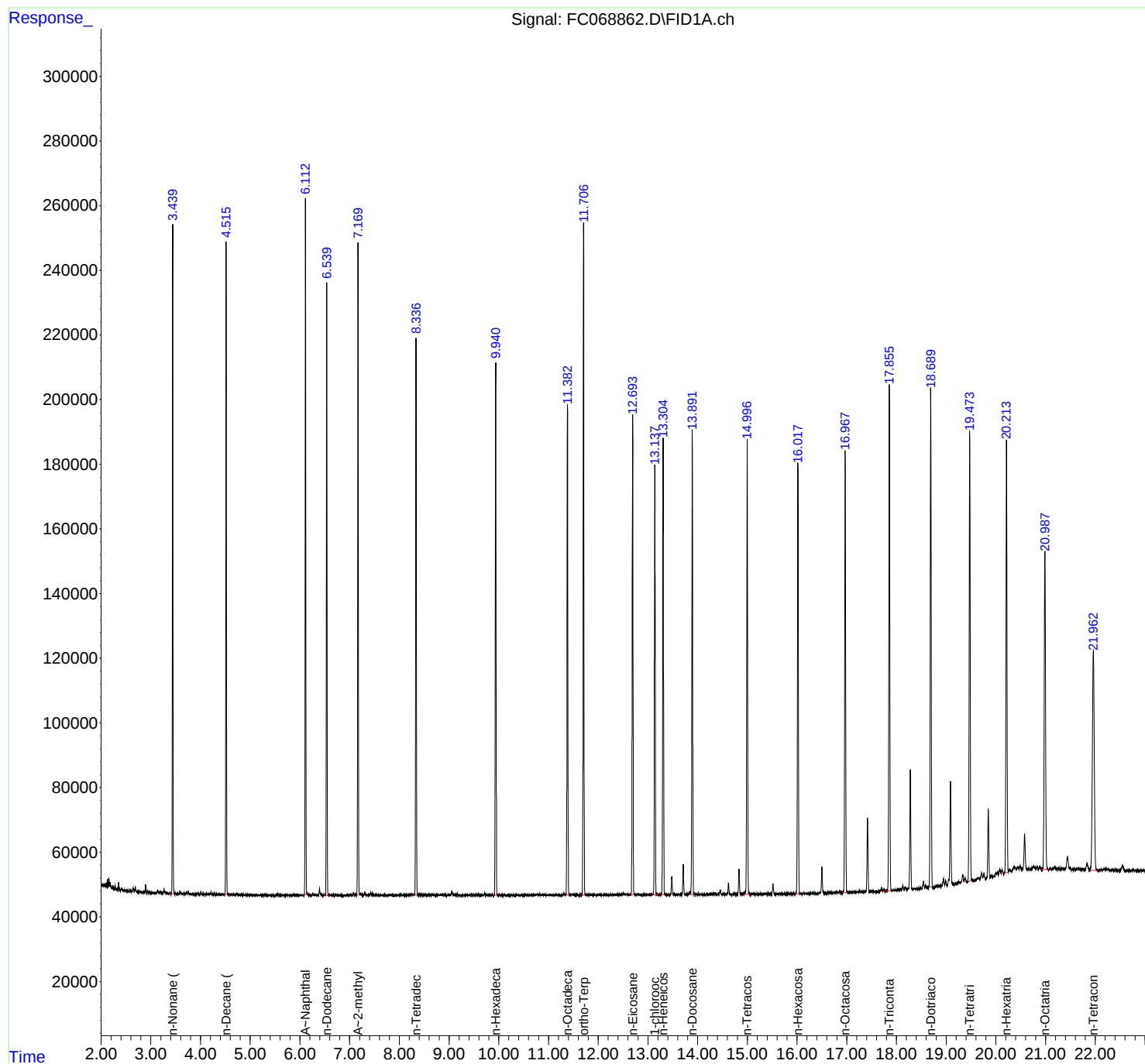
Instrument :  
FID\_C  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

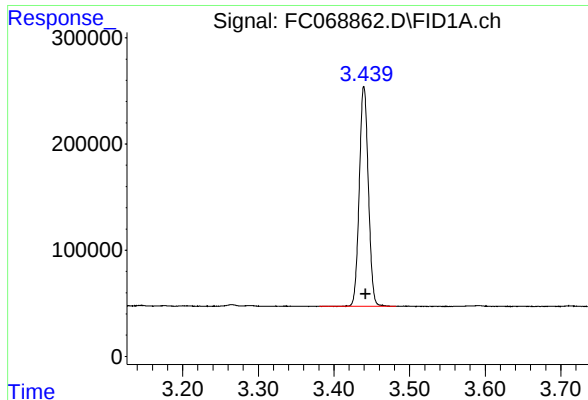
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Quant Time: May 14 12:19:13 2025  
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Signal Phase : Rxi-1ms  
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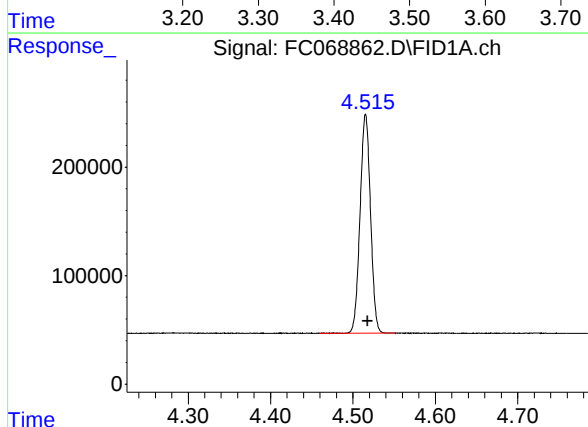
#1 n-Nonane (C9)

R.T.: 3.440 min  
Delta R.T.: -0.002 min  
Response: 1724024  
Conc: 17.14 ug/ml

Instrument :  
FID\_C  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

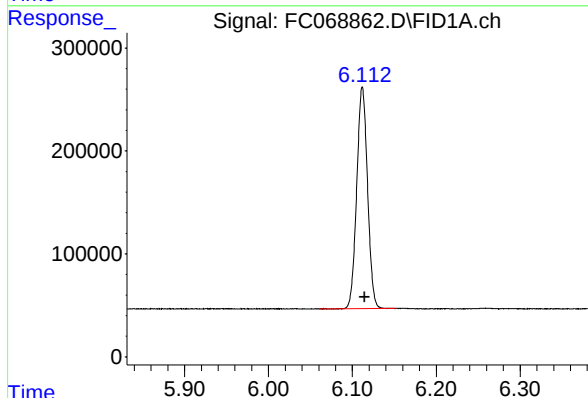
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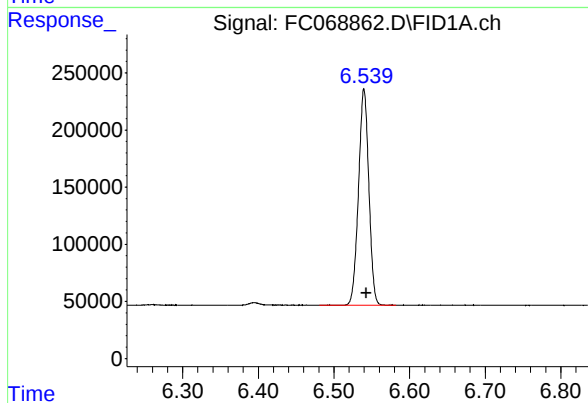
#2 n-Decane (C10)

R.T.: 4.515 min  
Delta R.T.: -0.002 min  
Response: 1781024  
Conc: 17.87 ug/ml



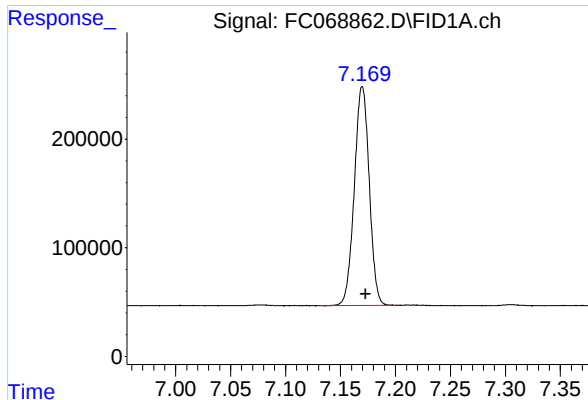
#3 A~Naphthalene (C11.7)

R.T.: 6.112 min  
Delta R.T.: -0.003 min  
Response: 1925431  
Conc: 17.46 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.540 min  
Delta R.T.: -0.003 min  
Response: 1793706  
Conc: 18.46 ug/ml



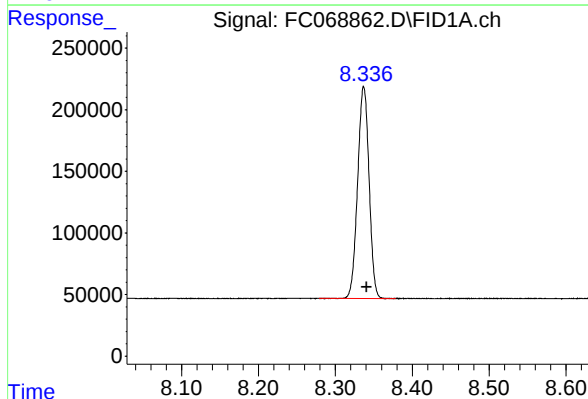
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.170 min  
Delta R.T.: -0.003 min  
Response: 1905861  
Conc: 17.76 ug/ml

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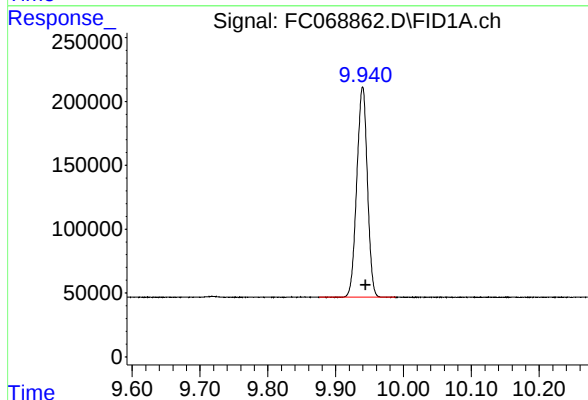
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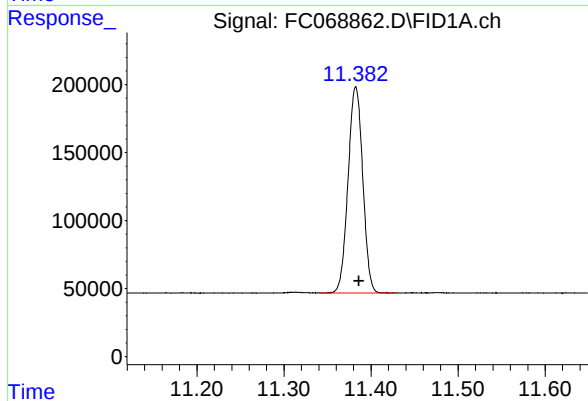
#6 n-Tetradecane (C14)

R.T.: 8.337 min  
Delta R.T.: -0.004 min  
Response: 1777563  
Conc: 19.23 ug/ml



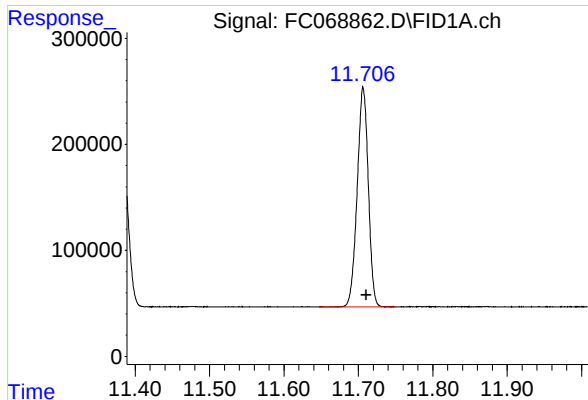
#7 n-Hexadecane (C16)

R.T.: 9.940 min  
Delta R.T.: -0.004 min  
Response: 1785852  
Conc: 19.94 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.383 min  
Delta R.T.: -0.004 min  
Response: 1773970  
Conc: 20.22 ug/ml



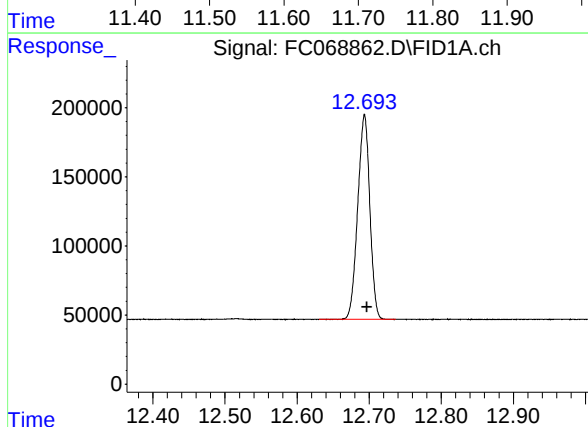
#9 ortho-Terphenyl (SURR)

R.T.: 11.707 min  
Delta R.T.: -0.004 min  
Response: 2148293  
Conc: 18.82 ug/ml

Instrument : FID\_C  
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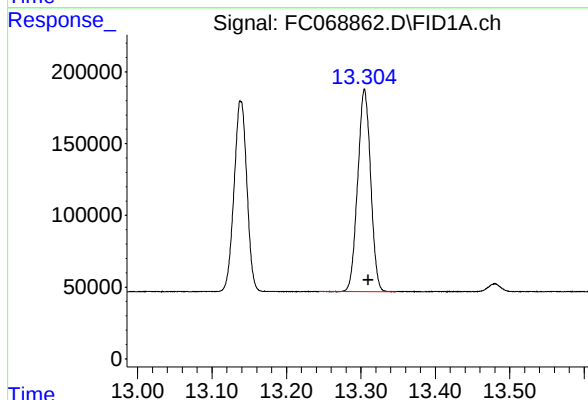
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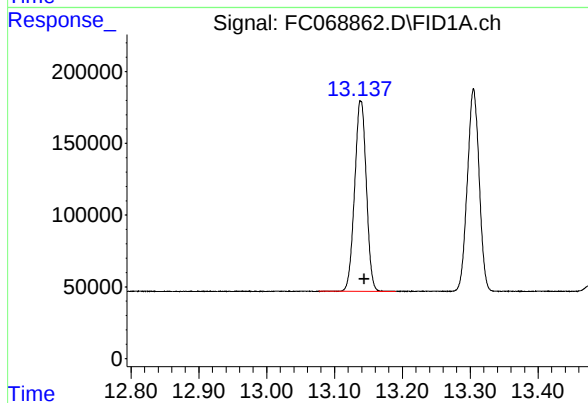
#10 n-Eicosane (C20)

R.T.: 12.693 min  
Delta R.T.: -0.004 min  
Response: 1729111  
Conc: 20.29 ug/ml



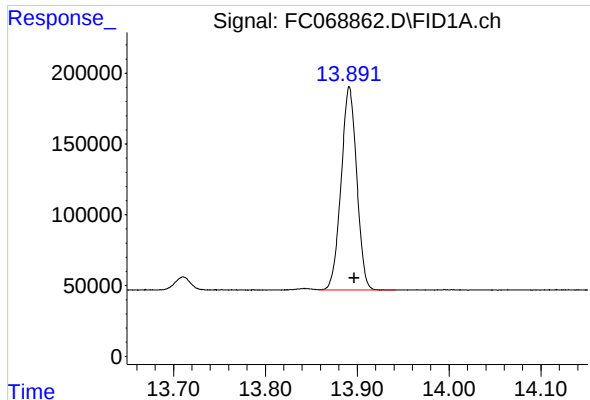
#11 n-Heneicosane (C21)

R.T.: 13.305 min  
Delta R.T.: -0.005 min  
Response: 1705376  
Conc: 20.22 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.139 min  
Delta R.T.: -0.005 min  
Response: 1589031  
Conc: 19.81 ug/ml



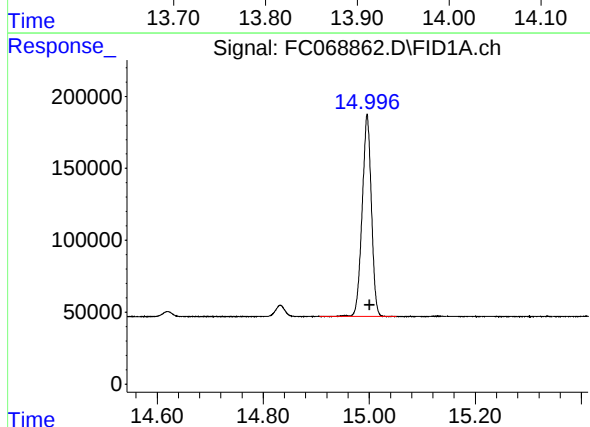
#13 n-Docosane (C22)

R.T.: 13.891 min  
Delta R.T.: -0.005 min  
Response: 1696597  
Conc: 20.28 ug/ml

Instrument :  
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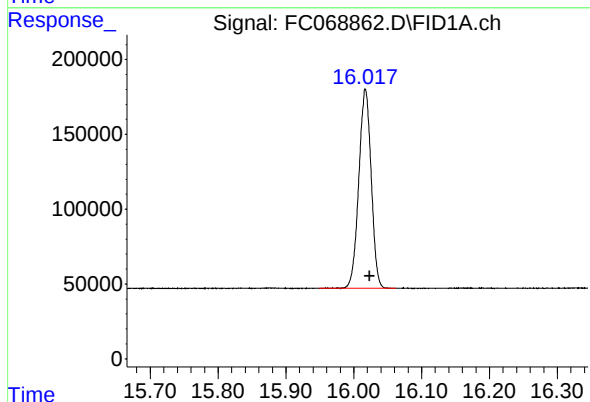
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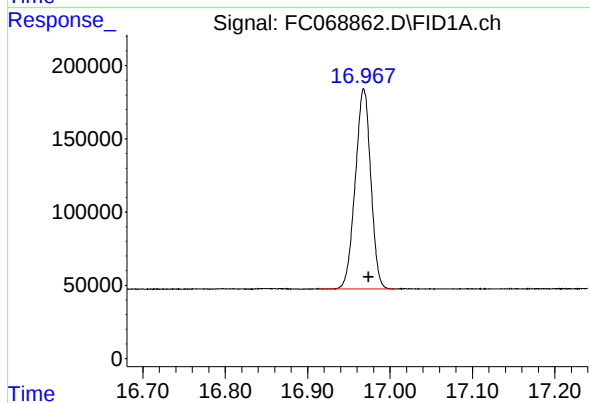
#14 n-Tetracosane (C24)

R.T.: 14.996 min  
Delta R.T.: -0.005 min  
Response: 1694233  
Conc: 20.36 ug/ml



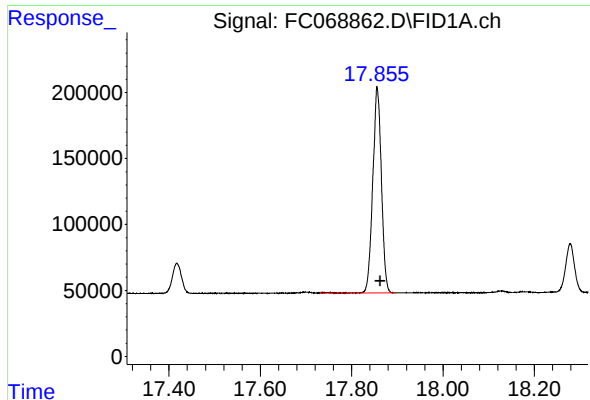
#15 n-Hexacosane (C26)

R.T.: 16.017 min  
Delta R.T.: -0.006 min  
Response: 1687931  
Conc: 20.37 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.968 min  
Delta R.T.: -0.006 min  
Response: 1787829  
Conc: 21.63 ug/ml



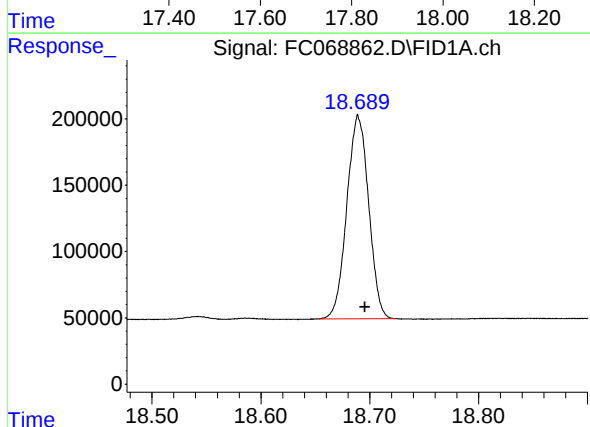
#17 n-Tricontane (C30)

R.T.: 17.856 min  
Delta R.T.: -0.006 min  
Response: 2048983  
Conc: 24.22 ug/ml

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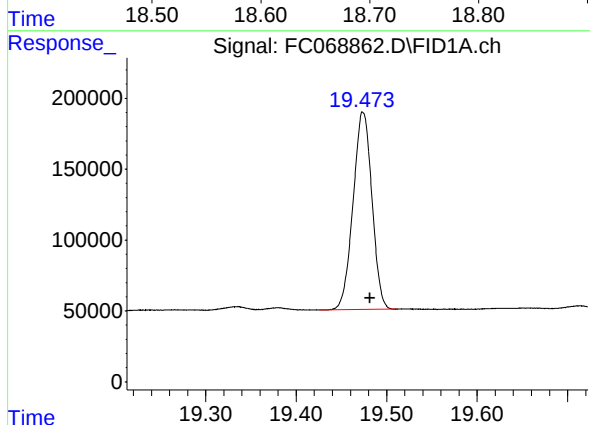
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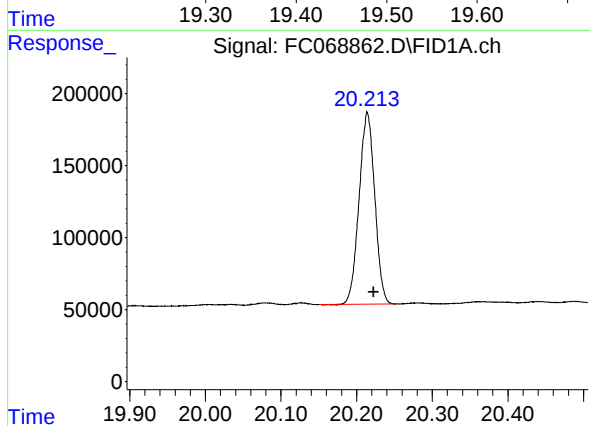
#18 n-Dotriacontane (C32)

R.T.: 18.689 min  
Delta R.T.: -0.007 min  
Response: 2137111  
Conc: 24.81 ug/ml m



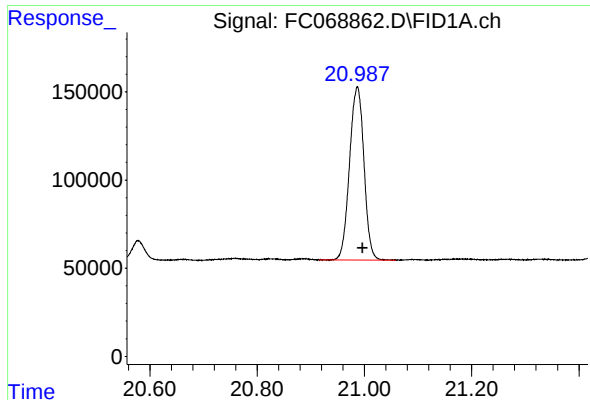
#19 n-Tetratriacontane (C34)

R.T.: 19.474 min  
Delta R.T.: -0.008 min  
Response: 2014149  
Conc: 23.64 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.214 min  
Delta R.T.: -0.008 min  
Response: 1923353  
Conc: 22.38 ug/ml



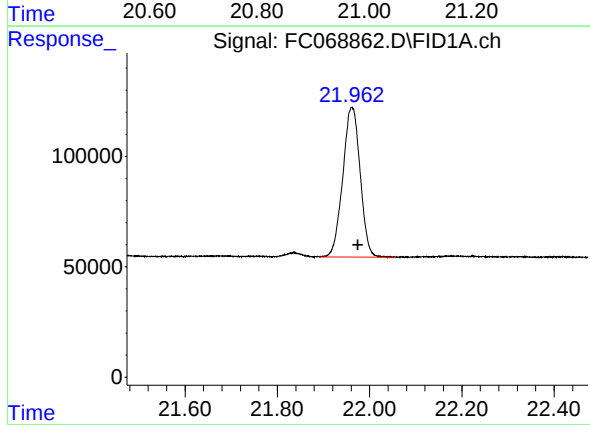
#21 n-Octatriacontane (C38)

R.T.: 20.987 min  
Delta R.T.: -0.010 min  
Response: 1832061  
Conc: 21.84 ug/ml

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#22 n-Tetracontane (C40)

R.T.: 21.962 min  
Delta R.T.: -0.014 min  
Response: 1775610  
Conc: 21.67 ug/ml