

Laboratorien Dr. Döring Halferwende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33

10178 BERLIN

17. Dezember 2018

PRÜFBERICHT 12121878

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 12.12.2018
Probentransport: durch Laboratorien Dr. Döring GmbH am 12.12.2018
Probeneingang: 12.12.2018
Prüfzeitraum: 12.12.2018 – 17.12.2018
Probennummer: 71366 - 71399 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges: Der Messfehler dieser Prüfungen befindet sich im üblichen Rahmen. Näheres teilen wir Ihnen auf Anfrage gerne mit. Die Prüfergebnisse beziehen sich ausschließlich auf die angegebenen Prüfgegenstände. Eine auszugsweise Vervielfältigung dieses Prüfberichts bedarf der schriftlichen Genehmigung durch die Laboratorien Dr. Döring GmbH.

Analysenbefunde: Seite 2 - 4
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01
Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

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halferwende 12 28357 bremen im schedetal 11 34346 hann. münden freiboldstraße 16 30455 hannover bankhaus neelmeyer ag swift needs22 gmbh, hrb 15929
fon 04 21 2 07 22 75 fon 05 54 1 9 83 40 fon 05 11 26 13 99 64 de95290200000000024000 st-nr 60/120/08234
fax 04 21 27 55 22 fax 05 54 1 98 34 55 fax 05 11 2 62 67 90 ust-idnr de 170 350 601 www.dr-doering.com

Labornummer	71378	71379	71380	71381
Probenbezeichnung	29-13	29-14	29-15	29-16
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	81,5	78,2	79,2	78,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	730	680	1.100	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	760	700	1.100	8
Benzol	< 0,01	< 0,01	0,15	< 0,01
Toluol	< 0,01	0,03	2,25	0,03
Ethylbenzol	0,07	0,19	1,30	0,08
Xylole	0,66	1,12	5,03	0,35
Trimethylbenzole	2,33	3,28	4,02	0,05
Summe BTX	3,06	4,62	12,75	0,51

Labornummer	71382	71383	71384	71385
Probenbezeichnung	29-17	28-1	28-4	28-9
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	78,8	98,0	95,3	94,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,02	< 0,01	< 0,01	< 0,01
Xylole	0,08	< 0,01	< 0,01	< 0,01
Trimethylbenzole	0,01	< 0,01	< 0,01	< 0,01
Summe BTX	0,11	n.n.	n.n.	n.n.

Labornummer	71386	71387	71388	71389
Probenbezeichnung	28-10	28-12	28-13	28-14
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	95,6	96,6	90,2	88,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	26	73	47
Kohlenwasserstoffe, n-C ₁₀₋₄₀	7	26	73	47
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	0,29	0,44
Ethylbenzol	< 0,01	0,03	0,65	0,53
Xylole	< 0,01	0,48	4,10	2,99
Trimethylbenzole	< 0,01	1,50	5,99	2,72
Summe BTX	n.n.	2,01	11,03	6,68

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halferwende 12 28357 bremen im schedetal 11 34346 hann. münden freiboldstraße 16 30455 hannover bankhaus neelmeyer ag swift needs22 gmbh, hrb 15929
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Labornummer	71366	71367	71368	71369
Probenbezeichnung	29-1	29-2	29-3	29-4
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	94,6	88,7	80,7	81,6
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	85	1.400
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	110	1.500
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	0,41
Xylole	< 0,01	< 0,01	< 0,01	3,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	12,7
Summe BTX	n.n.	n.n.	n.n.	16,13

Labornummer	71370	71371	71372	71373
Probenbezeichnung	29-5	29-6	29-7	29-8
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	80,1	80,9	80,7	79,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	1.200	680	930	1.200
Kohlenwasserstoffe, n-C ₁₀₋₄₀	1.300	700	950	1.200
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,25	0,17	0,29	0,57
Xylole	1,91	1,59	2,06	3,41
Trimethylbenzole	9,81	7,90	8,58	13,8
Summe BTX	11,98	9,66	10,93	17,78

Labornummer	71374	71375	71376	71377
Probenbezeichnung	29-9	29-10	29-11	29-12
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	80,1	78,9	79,7	82,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	1.200	1.300	1.300	1.200
Kohlenwasserstoffe, n-C ₁₀₋₄₀	1.200	1.300	1.300	1.200
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,61	0,56	0,12	0,02
Xylole	3,62	3,49	1,01	0,20
Trimethylbenzole	13,8	14,8	3,86	0,85
Summe BTX	18,03	18,85	4,99	1,07

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Labornummer	71390	71391	71392	71393
Probenbezeichnung	28-15	28-16	28-17	53-1
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	80,0	79,9	80,0	93,3
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	6	< 5	< 5	< 5
Benzol	0,02	0,01	< 0,01	< 0,01
Toluol	0,30	0,16	0,10	< 0,01
Ethylbenzol	0,12	0,04	0,03	< 0,01
Xylole	0,57	0,25	0,22	< 0,01
Trimethylbenzole	0,03	< 0,01	< 0,01	< 0,01
Summe BTX	1,04	0,47	0,35	n.n.

Labornummer	71394	71395	71396	71397
Probenbezeichnung	53-4	53-9	53-13	53-14
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	96,3	96,8	95,4	90,3
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	< 0,01
Summe BTX	n.n.	n.n.	n.n.	n.n.

Labornummer	71398	71399		
Probenbezeichnung	53-15	53-17		
Dimension	(mg/kg TS)	(mg/kg TS)		
Trockenmasse [%]	72,2	94,7		
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5		
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5		
Benzol	< 0,01	< 0,01		
Toluol	< 0,01	< 0,01		
Ethylbenzol	< 0,01	< 0,01		
Xylole	< 0,01	< 0,01		
Trimethylbenzole	< 0,01	< 0,01		
Summe BTX	n.n.	n.n.		

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fax 04 21 27 55 22 fax 05 54 1 98 34 55 fax 05 11 2 62 67 90 ust-idnr de 170 350 601 www.dr-doering.com

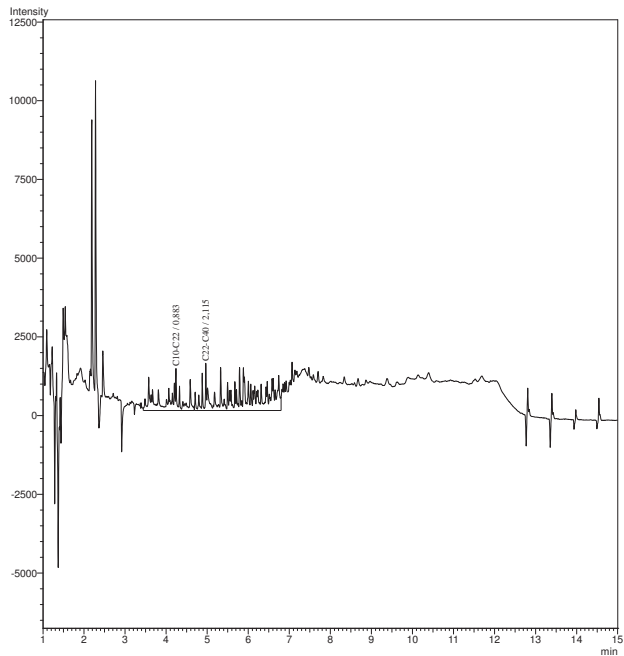
Anlage 11, Prüfberichte Döring

Analysis Date & Time : 13.12.2018 13:05:12
User Name : Admin
Vial# : 11
Sample Name : 71366
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\011_71366_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,238	19879	0,883	µg/ml	C10-C22
2	4,966	49637	2,115	µg/ml	C22-C40

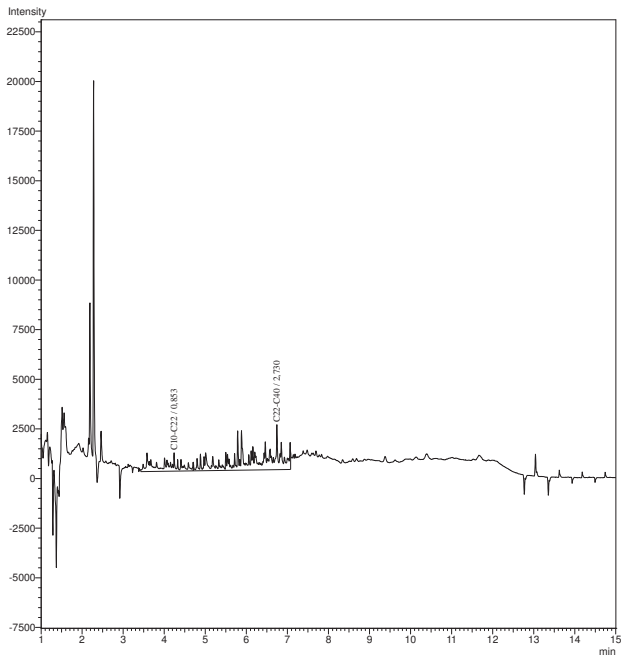


Analysis Date & Time : 13.12.2018 13:26:05
User Name : Admin
Vial# : 12
Sample Name : 71367
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\012_71367_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,239	19220	0,853	µg/ml	C10-C22
2	6,743	64321	2,730	µg/ml	C22-C40

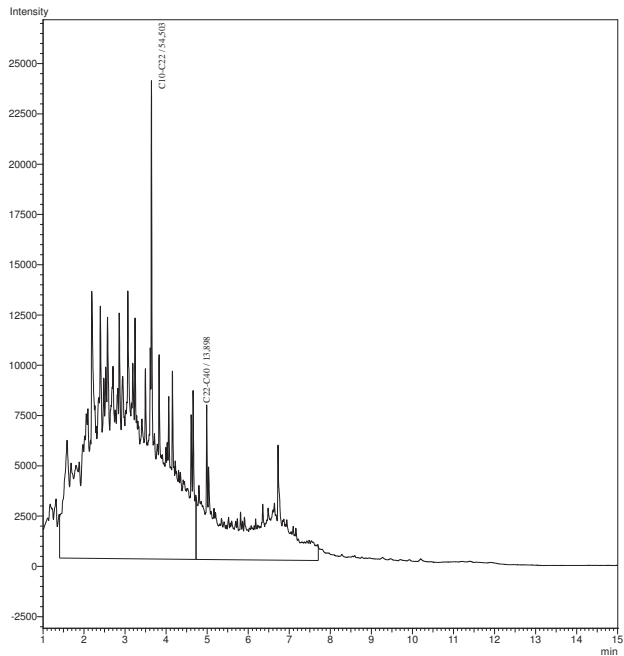


Analysis Date & Time : 17.12.2018 13:28:33
User Name : Admin
Vial# : 38
Sample Name : 71368
Sample ID : 038
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fid_181217\\038_71368_001.gcd
Method Name : \\FI2\\root_d\\2018\\fid_181217\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,642	1230013	54,503	µg/ml	C10-C22
2	4,988	326864	13,898	µg/ml	C22-C40

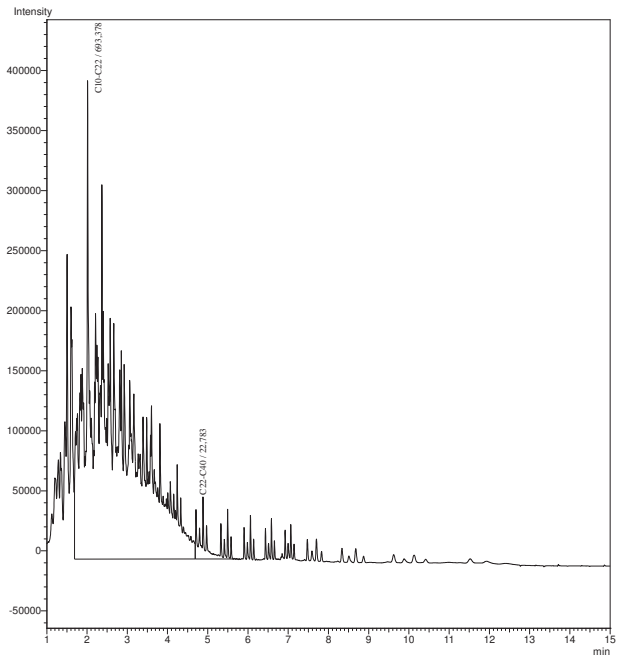


Analysis Date & Time : 13.12.2018 14:07:52
User Name : Admin
Vial# : 14
Sample Name : 71369
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\014_71369_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

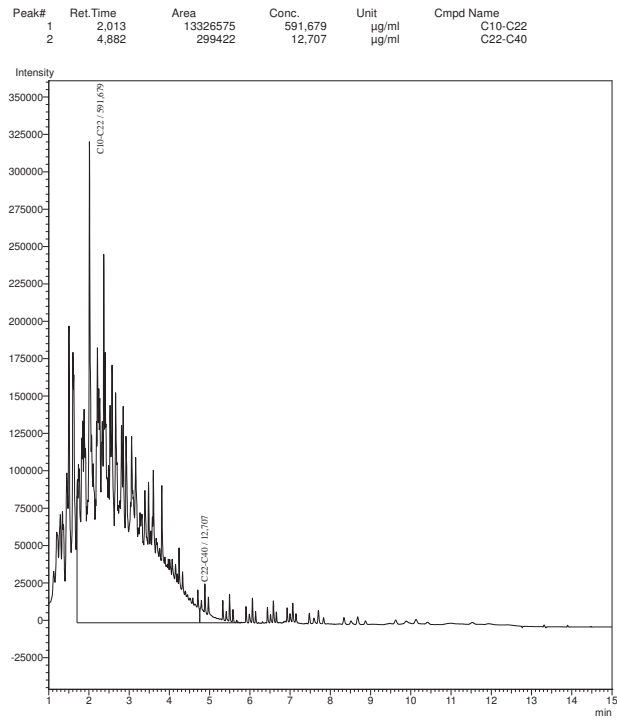
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,013	15617165	693,378	µg/ml	C10-C22
2	4,882	536839	22,783	µg/ml	C22-C40



Analysis Date & Time : 13.12.2018 14:49:40
User Name : Admin
Vial# : 16
Sample Name : 71370
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\016_71370_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

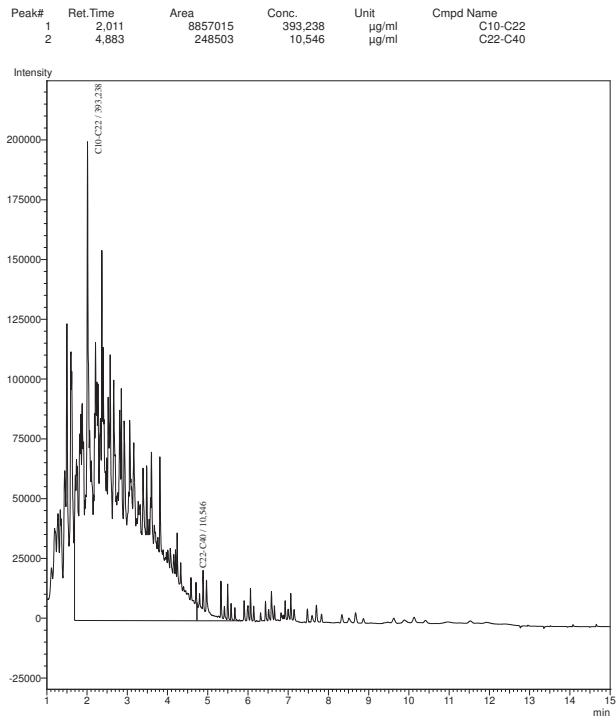
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 15:10:31
User Name : Admin
Vial# : 17
Sample Name : 71371
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\017_71371_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

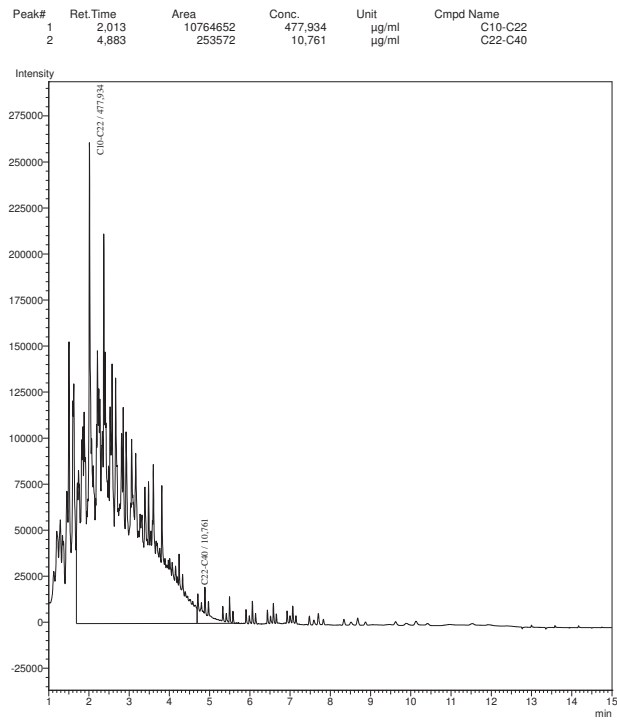
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 15:31:25
User Name : Admin
Vial# : 18
Sample Name : 71372
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\018_71372_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

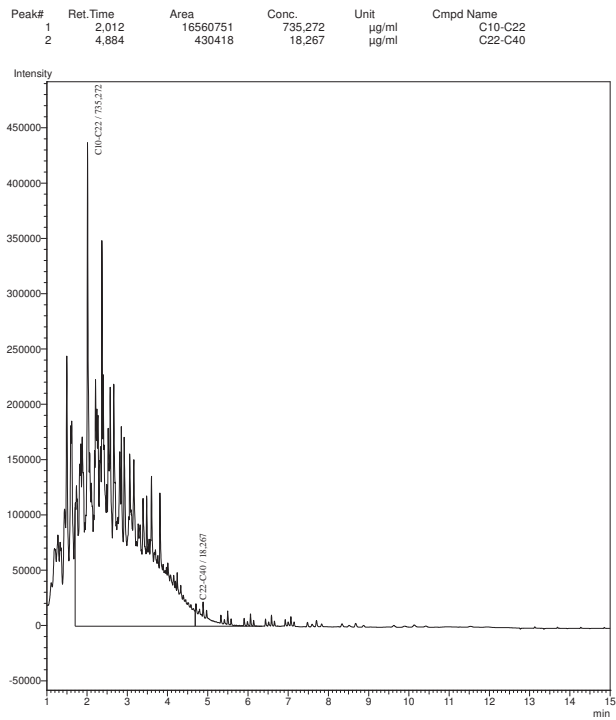
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 15:52:18
User Name : Admin
Vial# : 19
Sample Name : 71373
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\019_71373_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

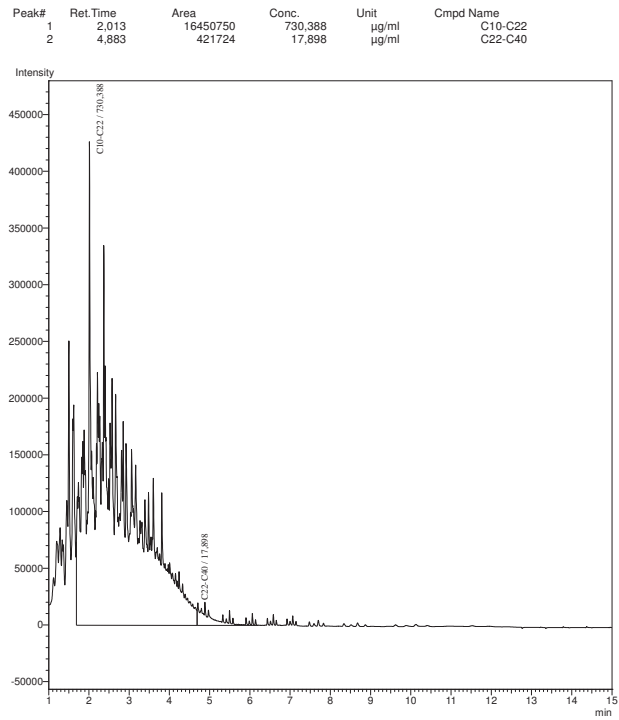
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 16:13:11
User Name : Admin
Vial# : 20
Sample Name : 71374
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\020_71374_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

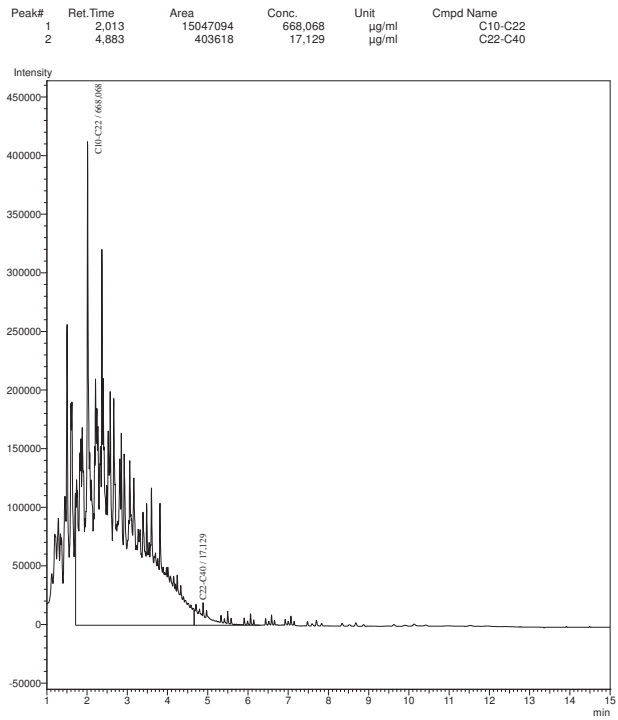
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 16:34:06
User Name : Admin
Vial# : 21
Sample Name : 71375
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\021_71375_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

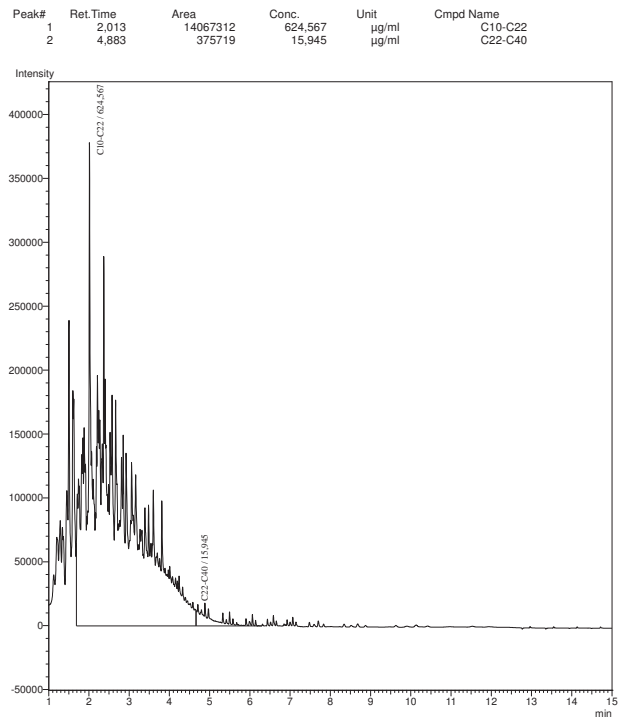
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 16:54:57
User Name : Admin
Vial# : 22
Sample Name : 71376
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\022_71376_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

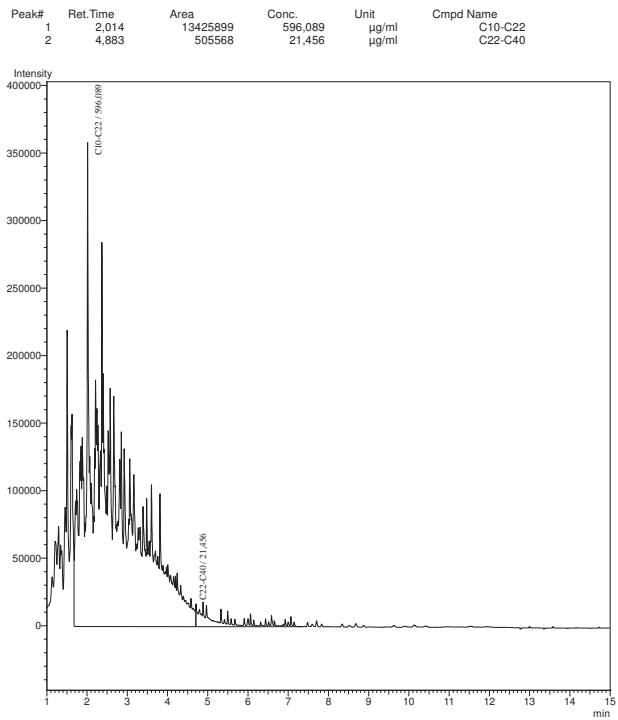
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 17:15:53
User Name : Admin
Vial# : 23
Sample Name : 71377
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\023_71377_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

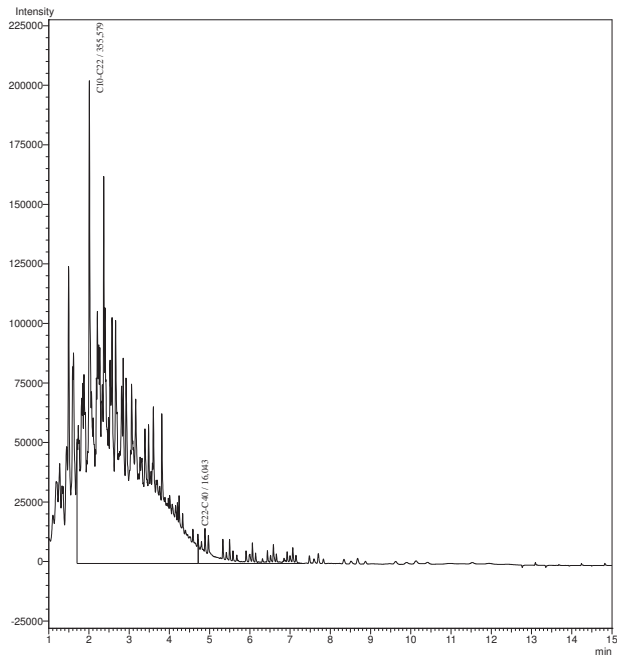


Analysis Date & Time : 13.12.2018 17:36:46
User Name : Admin
Vial# : 24
Sample Name : 71378
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\024_71378_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,010	8008806	355,579	µg/ml	C10-C22
2	4,884	378031	16,043	µg/ml	C22-C40

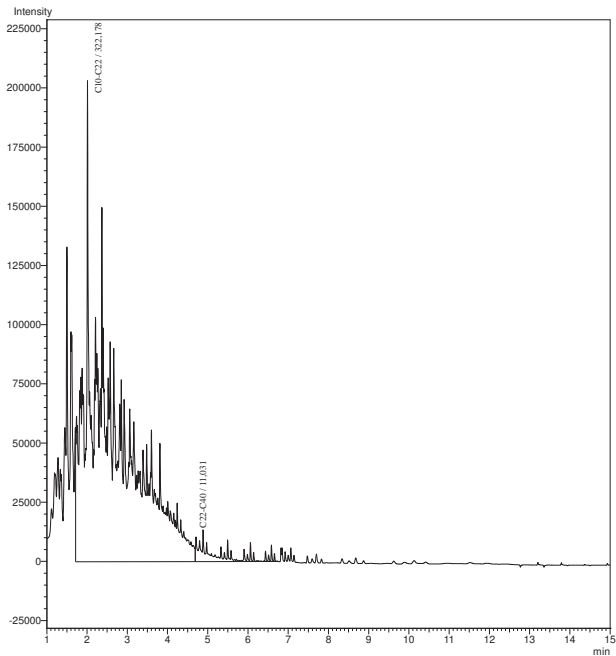


Analysis Date & Time : 13.12.2018 17:57:39
User Name : Admin
Vial# : 25
Sample Name : 71379
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\025_71379_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,011	7256508	322,178	µg/ml	C10-C22
2	4,883	259931	11,031	µg/ml	C22-C40

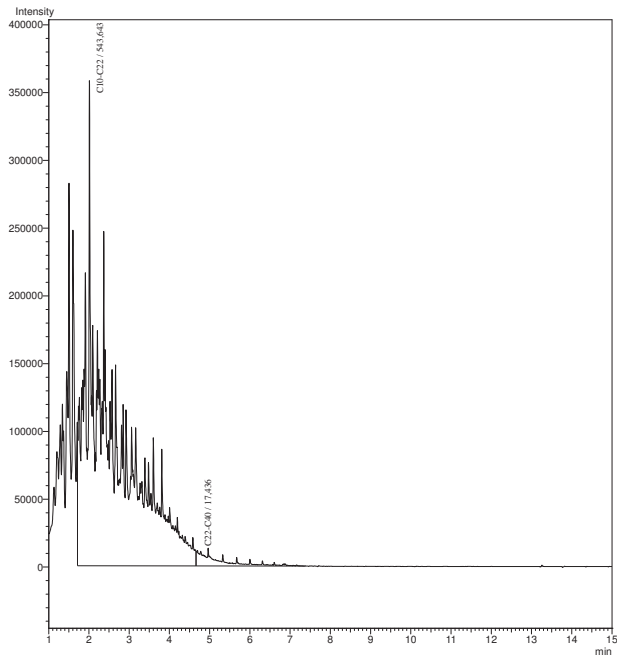


Analysis Date & Time : 13.12.2018 19:42:08
User Name : Admin
Vial# : 30
Sample Name : 71380
Sample ID : 030
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\030_71380_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,013	12244632	543,643	µg/ml	C10-C22
2	4,963	410839	17,436	µg/ml	C22-C40

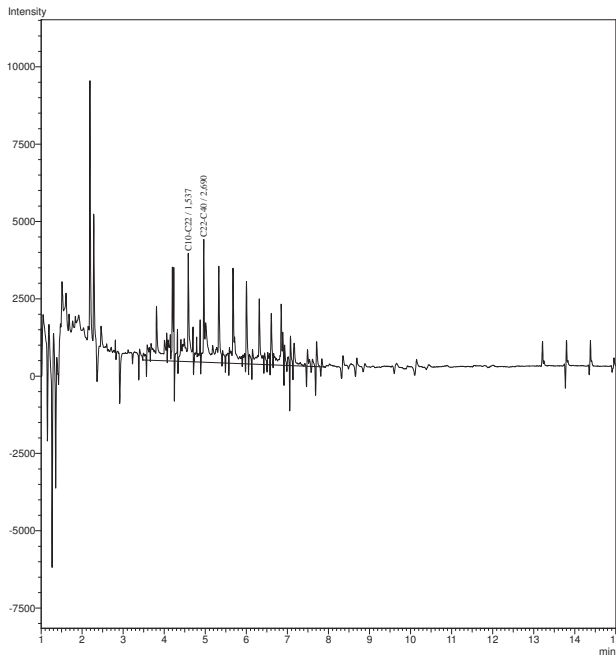


Analysis Date & Time : 13.12.2018 20:03:04
User Name : Admin
Vial# : 31
Sample Name : 71381
Sample ID : 031
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\031_71381_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1

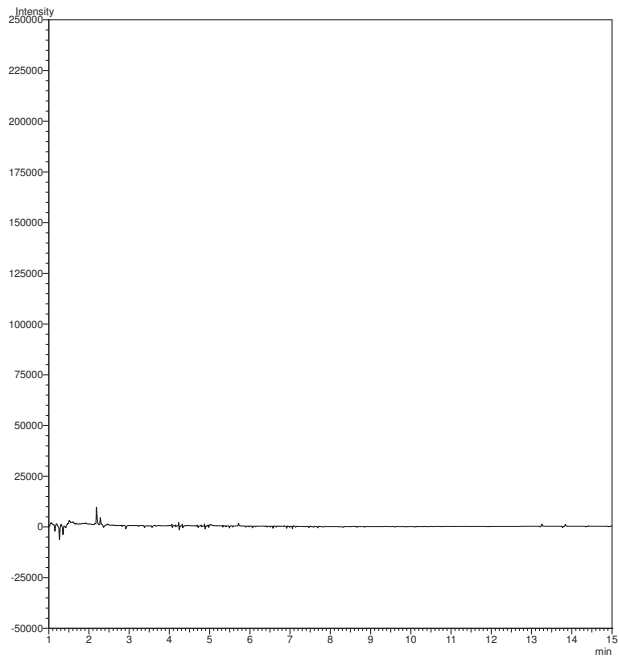
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,585	34613	1,537	µg/ml	C10-C22
2	4,963	63388	2,690	µg/ml	C22-C40



Analysis Date & Time : 13.12.2018 20:23:56
User Name : Admin
Vial# : 32
Sample Name : 71382
Sample ID : 032
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\032_71382_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

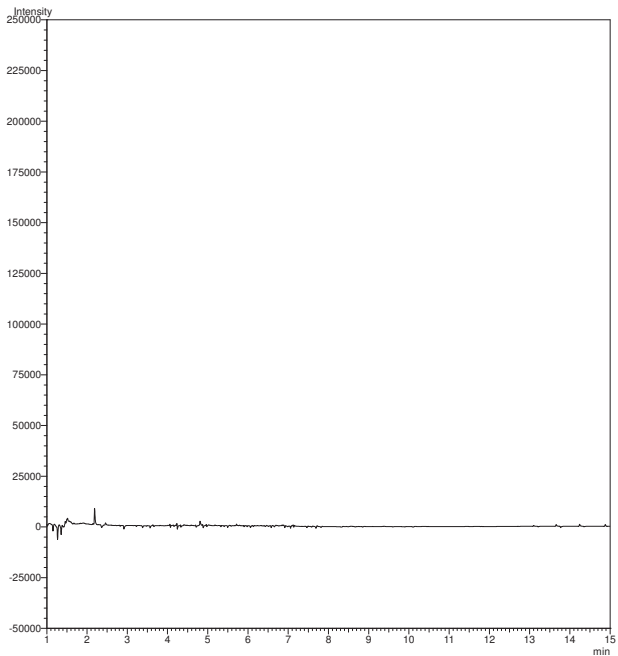
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 20:44:49
User Name : Admin
Vial# : 33
Sample Name : 71383
Sample ID : 033
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\033_71383_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

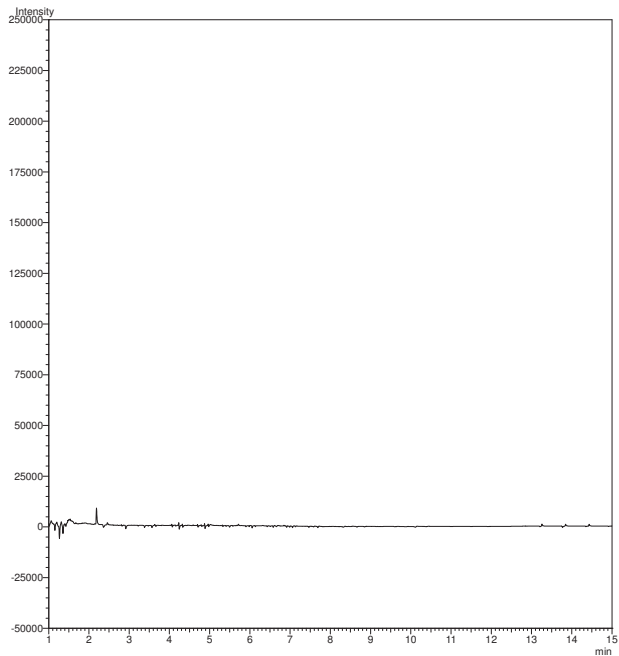
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 21:05:45
User Name : Admin
Vial# : 34
Sample Name : 71384
Sample ID : 034
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\034_71384_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

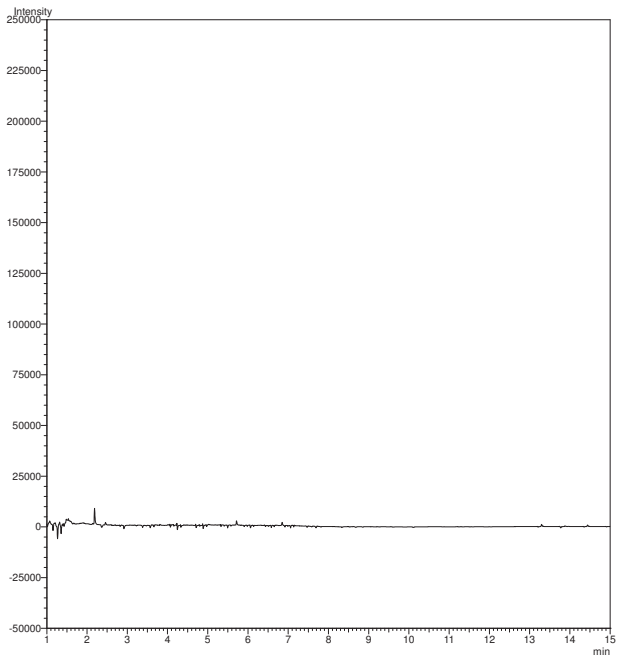
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 21:26:39
User Name : Admin
Vial# : 35
Sample Name : 71385
Sample ID : 035
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\035_71385_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

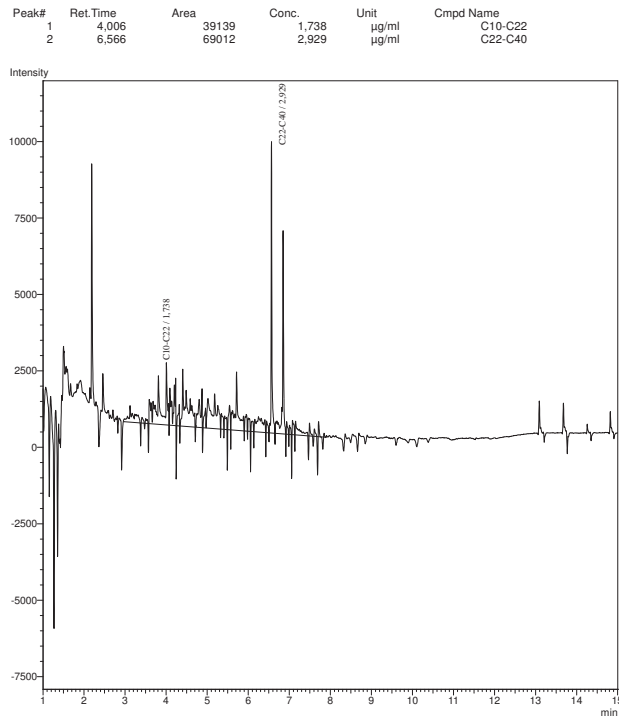
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 21:47:35
User Name : Admin
Vial# : 36
Sample Name : 71386
Sample ID : 036
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\036_71386_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

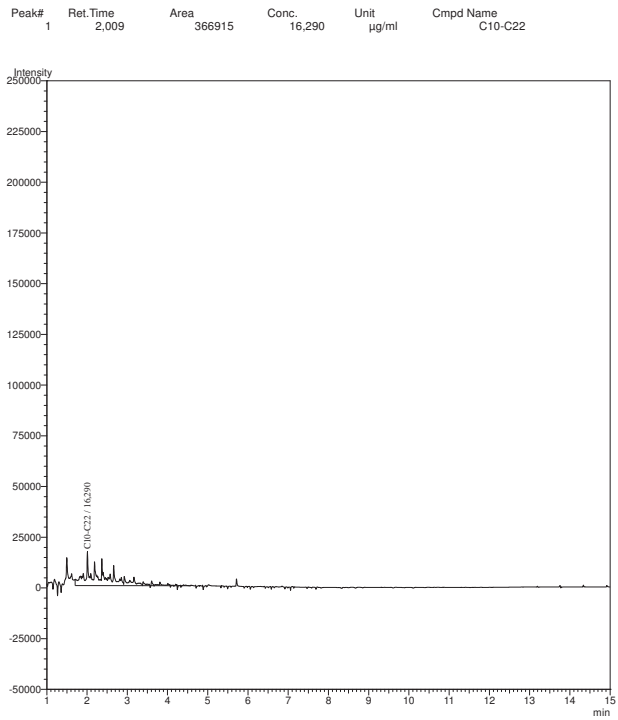
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 22:08:30
User Name : Admin
Vial# : 37
Sample Name : 71387
Sample ID : 037
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\037_71387_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

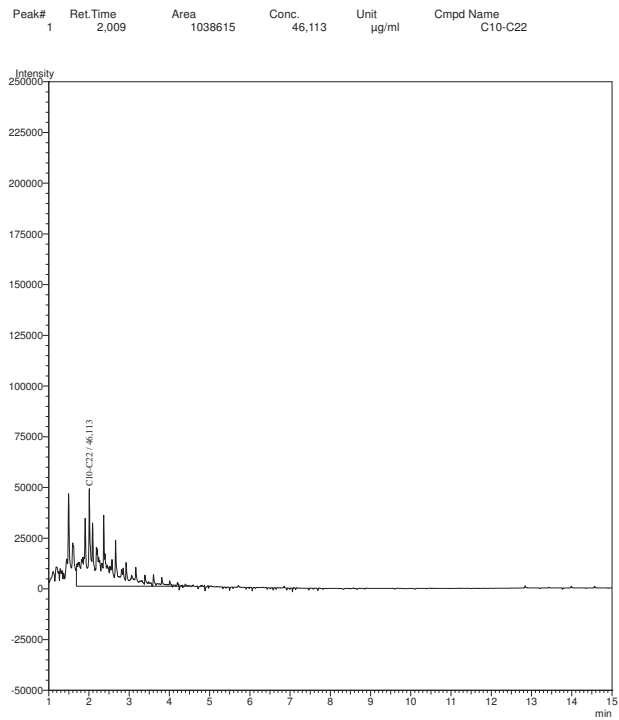
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 22:29:26
User Name : Admin
Vial# : 38
Sample Name : 71388
Sample ID : 038
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\038_71388_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

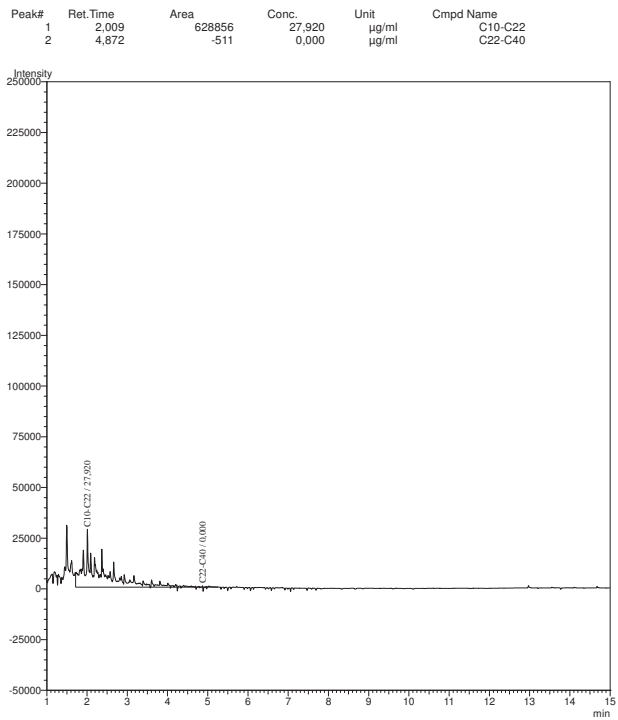
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 22:50:19
User Name : Admin
Vial# : 39
Sample Name : 71389
Sample ID : 039
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\039_71389_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

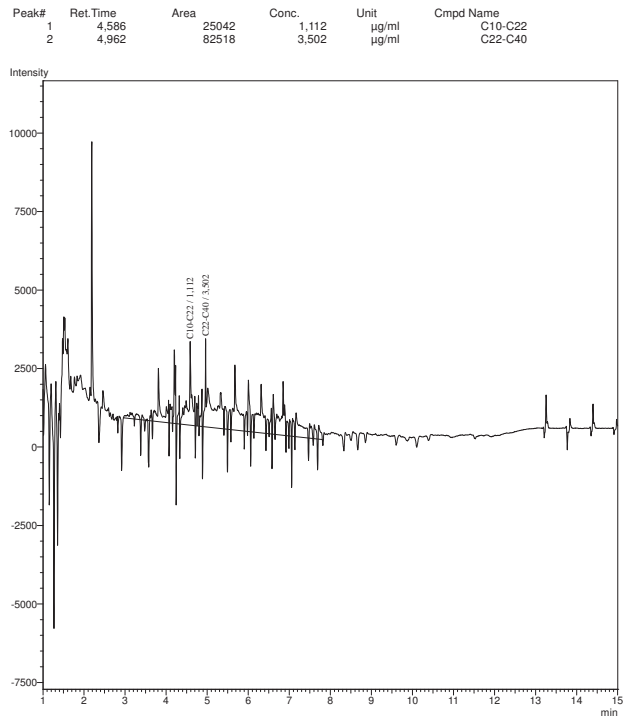
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 23:32:07
User Name : Admin
Vial# : 41
Sample Name : 71390
Sample ID : 041
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\041_71390_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

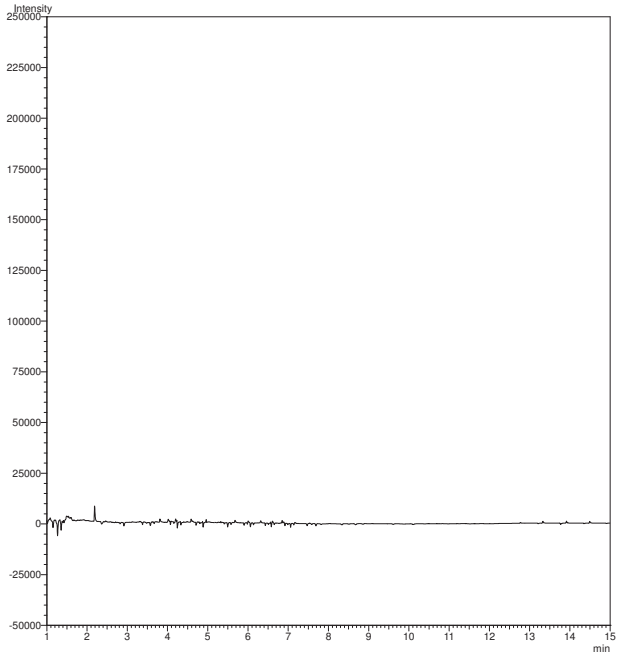
Group Results - Channel 1



Analysis Date & Time : 13.12.2018 23:53:01
User Name : Admin
Vial# : 42
Sample Name : 71391
Sample ID : 042
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\042_71391_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

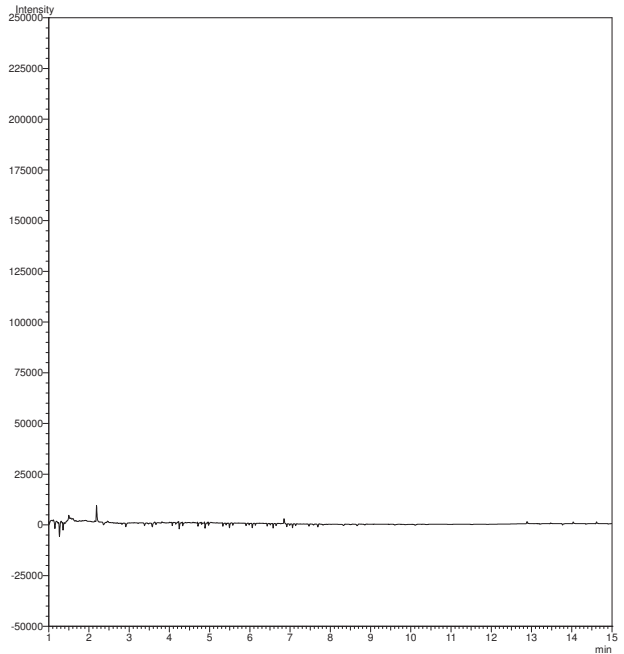
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 00:13:55
User Name : Admin
Vial# : 43
Sample Name : 71392
Sample ID : 043
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\043_71392_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

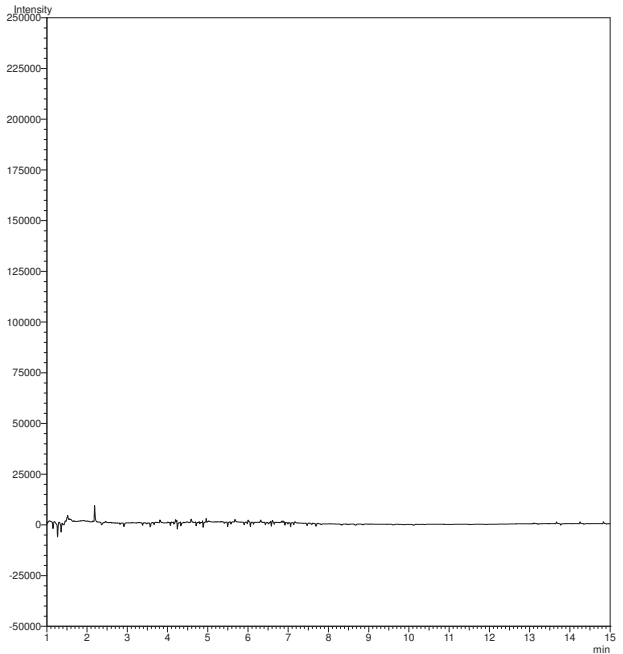
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 00:34:52
User Name : Admin
Vial# : 44
Sample Name : 71393
Sample ID : 044
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\044_71393_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

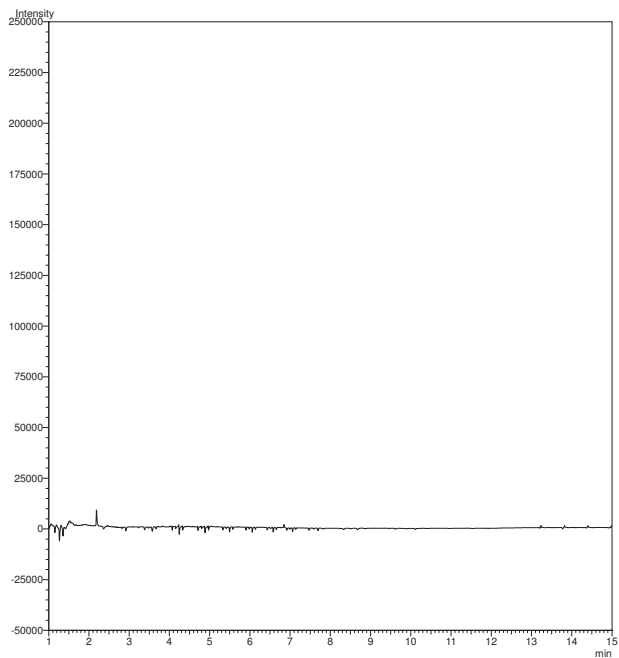
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 00:55:44
User Name : Admin
Vial# : 45
Sample Name : 71394
Sample ID : 045
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\045_71394_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

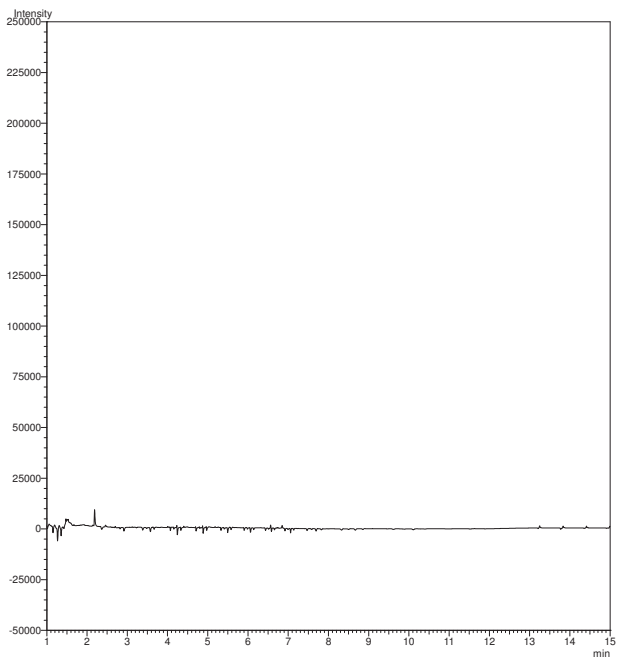
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 01:16:40
User Name : Admin
Vial# : 46
Sample Name : 71395
Sample ID : 046
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\046_71395_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

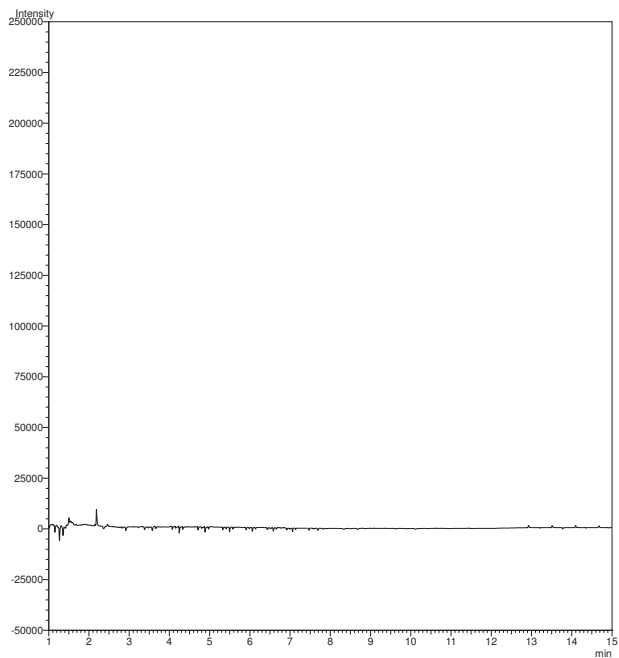
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 01:37:36
User Name : Admin
Vial# : 47
Sample Name : 71396
Sample ID : 047
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\047_71396_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

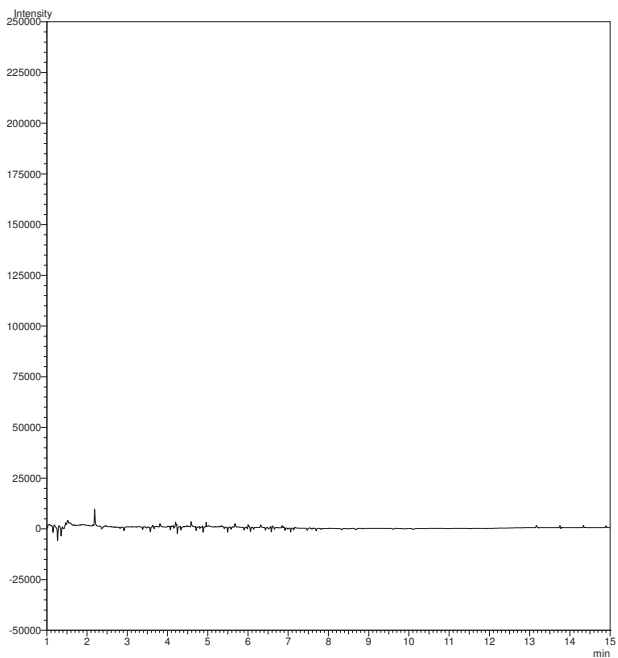
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 01:58:30
User Name : Admin
Vial# : 48
Sample Name : 71397
Sample ID : 048
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\048_71397_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

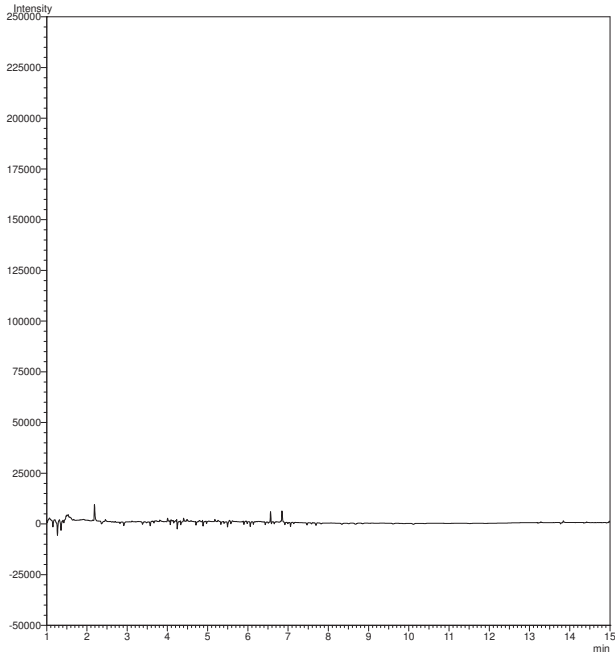
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 02:19:26
User Name : Admin
Vial# : 49
Sample Name : 71398
Sample ID : 049
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\049_71398_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

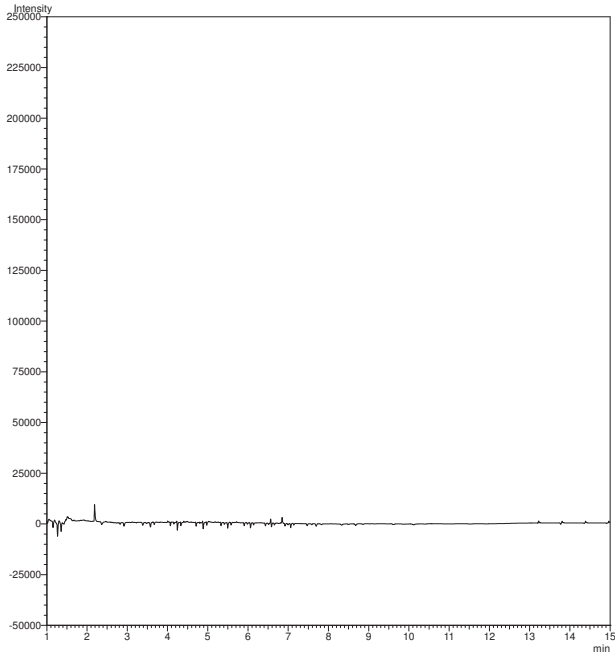
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 02:40:20
User Name : Admin
Vial# : 50
Sample Name : 71399
Sample ID : 050
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181213\\050_71399_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181213\\rr_h53.gcm

Group Results - Channel 1



Laboratorien Dr. Döring, Haferswende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33
10178 BERLIN

7. Dezember 2018

PRÜFBERICHT 04121830

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 04.12.2018
Probenransport: durch Laboratorien Dr. Döring GmbH am 04.12.2018
Probeneingang: 04.12.2018
Prüfzeitraum: 04.12.2018 – 07.12.2018
Probennummer: 69349 - 69395 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:

Analysenbefunde: Seite 2 - 5
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTEX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01

Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

Prüfbericht 04121830

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Labornummer	69349	69350	69351	69352
Probenbezeichnung	30-1	30-2	30-3	30-4
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	97,3	91,7	95,0	94,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	130	280
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	10	130	280
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylol	< 0,01	< 0,01	0,05	0,05
Trimethylbenzole	< 0,01	< 0,01	1,67	0,71
Summe BTEX	n.n.	n.n.	1,72	0,76

Labornummer	69353	69354	69355	69356
Probenbezeichnung	30-5	30-6	30-7	30-8
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,8	95,7	95,4	94,6
Kohlenwasserstoffe, n-C ₁₀₋₂₂	77	290	220	310
Kohlenwasserstoffe, n-C ₁₀₋₄₀	80	290	230	310
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	0,02	0,62	< 0,01
Xylol	0,05	0,08	5,24	< 0,01
Trimethylbenzole	1,44	1,22	17,9	< 0,01
Summe BTEX	1,49	1,32	23,76	n.n.

Labornummer	69357	69358	69359	69360
Probenbezeichnung	30-9	30-10	30-11	30-12
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,8	94,0	93,7	94,7
Kohlenwasserstoffe, n-C ₁₀₋₂₂	340	460	460	240
Kohlenwasserstoffe, n-C ₁₀₋₄₀	350	470	470	250
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	0,01	< 0,01	< 0,01
Ethylbenzol	0,09	0,68	0,11	0,36
Xylol	1,47	13,1	2,71	6,34
Trimethylbenzole	4,92	35,3	18,2	14,1
Summe BTEX	6,48	49,09	21,02	20,80

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Labornummer	69361	69362	69363	69364
Probenbezeichnung	30-13	30-14	30-15	30-16
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,2	92,2	85,6	79,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	74	410	150	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	82	420	160	8
Benzol	< 0,01	0,02	0,07	0,20
Toluol	0,09	3,28	4,17	0,37
Ethylbenzol	0,76	2,96	2,65	0,13
Xylole	10,5	30,0	18,6	0,73
Trimethylbenzole	16,2	26,8	19,9	0,08
Summe BTEX	27,55	63,06	45,39	1,51

Labornummer	69365	69366	69367	69368
Probenbezeichnung	30-17	33-1	33-2	33-3
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	79,0	92,5	91,3	93,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	8	< 5	< 5	860
Kohlenwasserstoffe, n-C ₁₀₋₄₀	18	< 5	6	910
Benzol	0,11	< 0,01	< 0,01	< 0,01
Toluol	0,11	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,02	< 0,01	< 0,01	0,08
Xylole	0,13	< 0,01	< 0,01	0,28
Trimethylbenzole	< 0,01	< 0,01	< 0,01	12,5
Summe BTEX	0,37	n.n.	n.n.	12,86

Labornummer	69369	69370	69371	69372
Probenbezeichnung	33-4	33-5	33-6	33-7
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	84,9	90,8	71,5	89,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	250	42	80	790
Kohlenwasserstoffe, n-C ₁₀₋₄₀	270	51	90	820
Benzol	< 0,01	< 0,01	< 0,01	0,01
Toluol	< 0,01	< 0,01	< 0,01	0,03
Ethylbenzol	0,01	< 0,01	0,01	0,96
Xylole	0,09	< 0,01	0,06	13,9
Trimethylbenzole	4,74	0,50	1,35	38,3
Summe BTEX	4,84	0,50	1,42	53,20

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Labornummer	69373	69374	69375	69376
Probenbezeichnung	33-8	33-9	33-10	33-11
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,2	99,2	92,4	88,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	80	85	49	180
Kohlenwasserstoffe, n-C ₁₀₋₄₀	91	94	58	210
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,01	0,03	0,03	0,17
Xylole	0,47	0,83	1,08	3,86
Trimethylbenzole	3,59	6,09	5,53	14,6
Summe BTEX	4,07	6,95	6,64	18,63

Labornummer	69377	69378	69379	69380
Probenbezeichnung	33-12	33-13	33-14	33-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	88,5	89,8	86,2	78,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	490	720	1.300	420
Kohlenwasserstoffe, n-C ₁₀₋₄₀	510	740	1.300	440
Benzol	< 0,01	0,03	1,64	0,5
Toluol	< 0,01	0,77	35,6	8,5
Ethylbenzol	0,09	3,64	50,2	10,9
Xylole	1,25	24,5	270	60,2
Trimethylbenzole	1,23	24,5	183	45,3
Summe BTEX	2,57	53,44	540,44	125,40

Labornummer	69381	69382	69383	69384
Probenbezeichnung	33-16	33-17	41-1	41-2
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	79,3	77,0	87,9	91,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	57	230
Kohlenwasserstoffe, n-C ₁₀₋₄₀	6	6	64	250
Benzol	0,01	0,02	< 0,01	< 0,01
Toluol	< 0,01	0,14	< 0,01	< 0,01
Ethylbenzol	0,05	0,10	< 0,01	< 0,01
Xylole	0,19	0,54	< 0,01	< 0,01
Trimethylbenzole	0,03	0,04	< 0,01	1,95
Summe BTEX	0,28	0,84	n.n.	1,95

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Labornummer	69385	69386	69387	69388
Probenbezeichnung	41-3	41-4	41-5	41-7
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	89,6	95,7	96,4	96,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	910	23	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	920	28	13	8
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	0,02	< 0,01	< 0,01	< 0,01
Ethylbenzol	1,24	0,08	< 0,01	< 0,01
Xylole	6,07	0,4	0,01	< 0,01
Trimethylbenzole	22,6	2,16	0,05	0,02
Summe BTEX	29,93	2,64	0,06	0,02

Labornummer	69389	69390	69391	69392
Probenbezeichnung	41-9	41-11	41-13	41-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,9	95,5	94,6	89,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	60	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	8	8	65	10
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	0,59
Ethylbenzol	< 0,01	< 0,01	< 0,01	1,69
Xylole	< 0,01	< 0,01	< 0,01	7,28
Trimethylbenzole	< 0,01	< 0,01	0,04	5,95
Summe BTEX	n.n.	n.n.	0,04	15,51

Labornummer	69393	69394	69395
Probenbezeichnung	41-15	41-16	41-17
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	83,1	76,9	78,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	25	5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	31	11	< 5
Benzol	< 0,01	0,02	< 0,01
Toluol	0,11	0,23	0,15
Ethylbenzol	0,22	0,25	0,13
Xylole	1,23	0,88	0,46
Trimethylbenzole	1,64	0,34	0,11
Summe BTEX	3,20	1,72	0,85

Prüfbericht 04121830

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haltenwende 12
28357 bremen
fon 04 21 2 07 22 75
fax 04 21 27 55 22

im schedetal 11
34346 hann. münden
fon 05 54 1 9 83 40
fax 05 54 1 98 34 55

treboldstraße 16
30455 hannover
fon 05 11 26 13 99 64
fax 05 11 2 62 67 90

bankhaus neelmeyer ag
swift neekd22
de95290200000000024000
ust-ibnr de 170 350 601

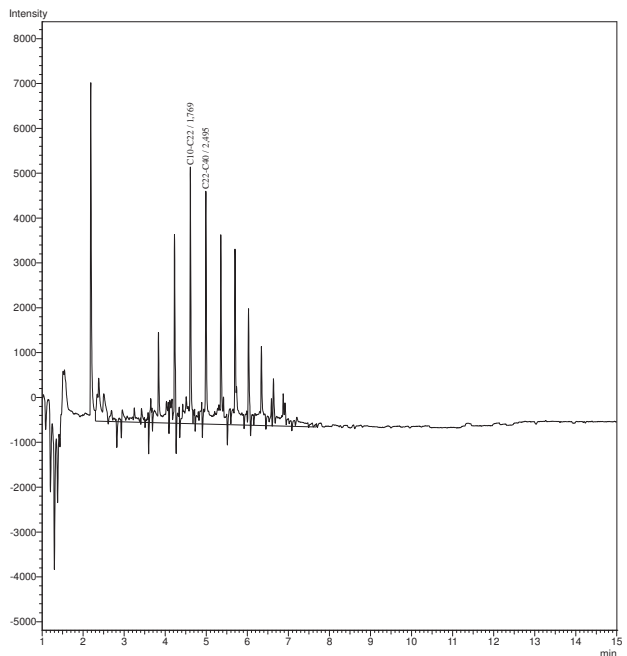
gmhb, hrb 15929
gf dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com

Analysis Date & Time : 05.12.2018 14:27:44
User Name : Admin
Vial# : 13
Sample Name : 69349
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fidroot_d\2018\fid_181205\013_69349_001.gcd
Method Name : \\fidroot_d\2018\fid_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,611	39843	1,769	µg/ml	C10-C22
2	4,989	57486	2,495	µg/ml	C22-C40

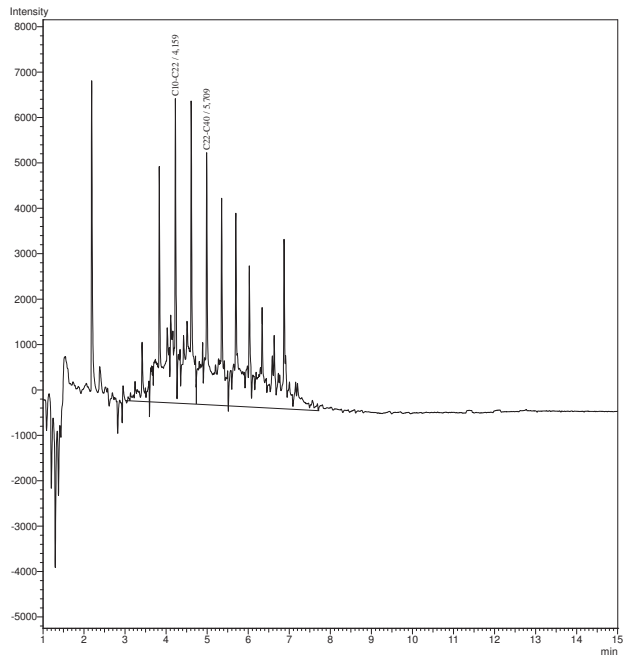


Analysis Date & Time : 05.12.2018 14:48:47
User Name : Admin
Vial# : 14
Sample Name : 69350
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\014_69350_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,225	93895	4,159	µg/ml	C10-C22
2	4,987	131519	5,709	µg/ml	C22-C40

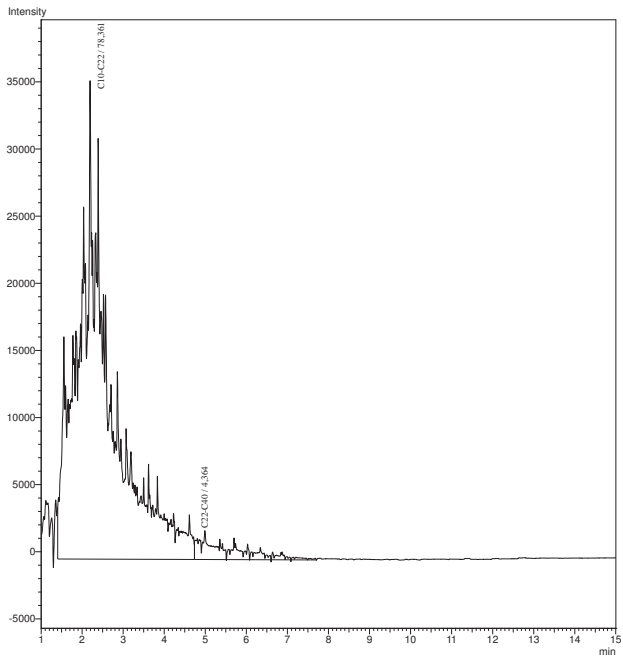


Analysis Date & Time : 05.12.2018 15:31:00
User Name : Admin
Vial# : 16
Sample Name : 69351
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\016_69351_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,192	1765364	78,361	µg/ml	C10-C22
2	4,990	100531	4,364	µg/ml	C22-C40

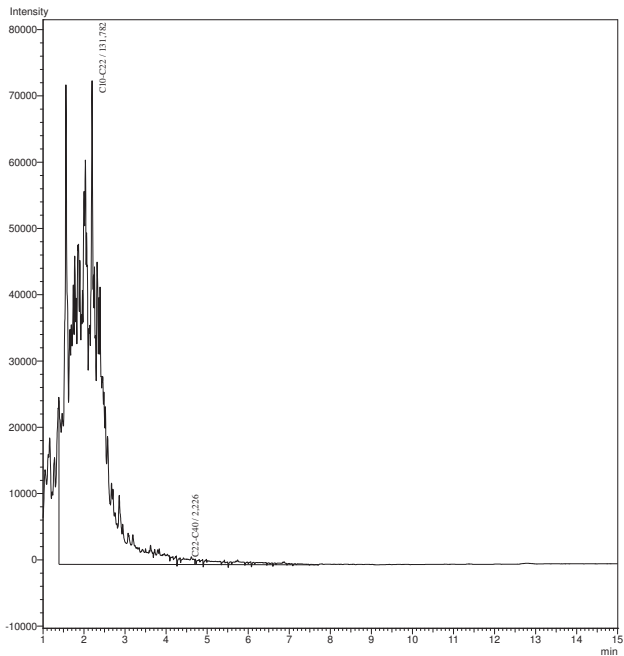


Analysis Date & Time : 05.12.2018 15:52:02
User Name : Admin
Vial# : 17
Sample Name : 69352
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\017_69352_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,195	2968856	131,782	µg/ml	C10-C22
2	4,715	51274	2,226	µg/ml	C22-C40

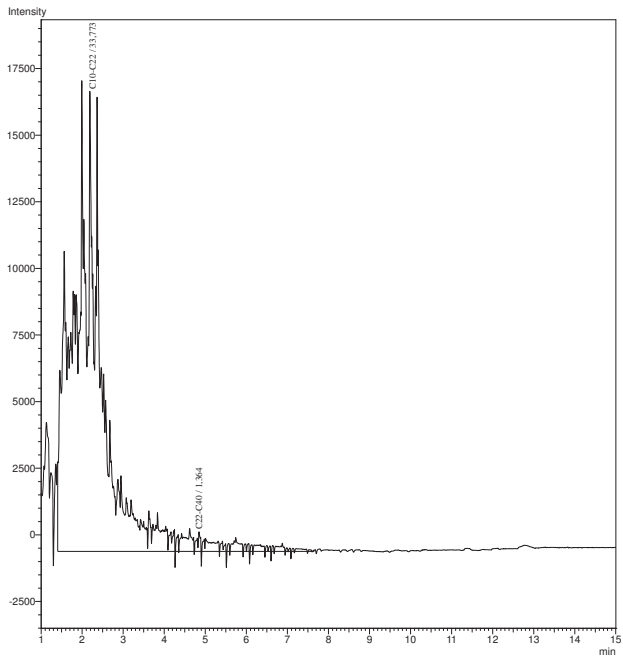


Analysis Date & Time : 05.12.2018 16:13:05
User Name : Admin
Vial# : 18
Sample Name : 69353
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\018_69353_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

Group Results - Channel 1

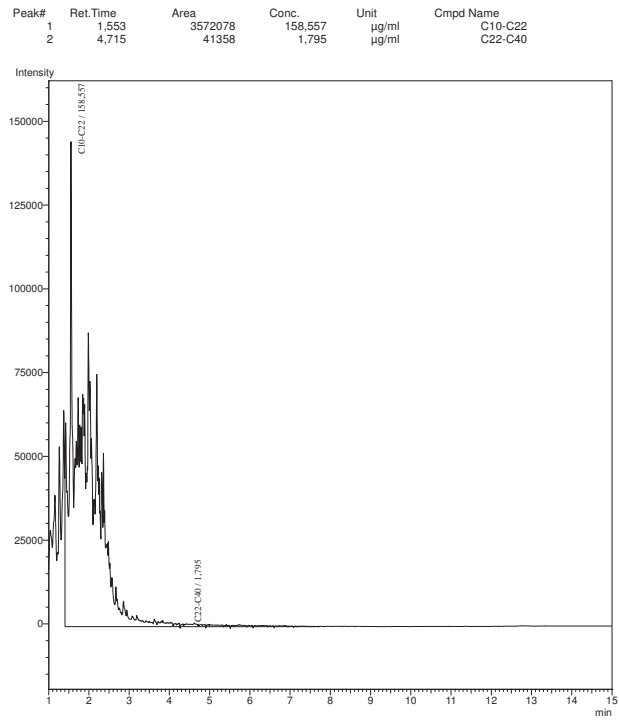
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,991	760855	33,773	µg/ml	C10-C22
2	4,846	31413	1,364	µg/ml	C22-C40



Analysis Date & Time : 05.12.2018 16:34:06
User Name : Admin
Vial# : 19
Sample Name : 69354
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\019_69354_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

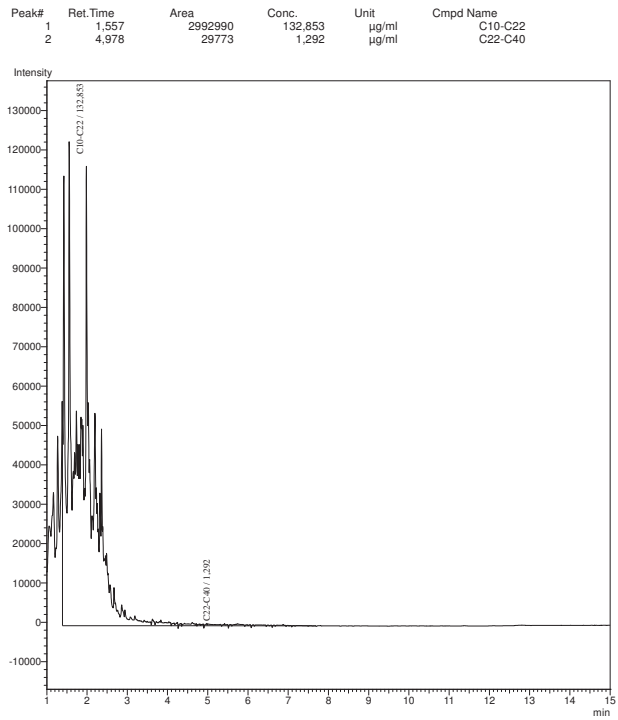
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 17:37:21
User Name : Admin
Vial# : 20
Sample Name : 69355
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\020_69355_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

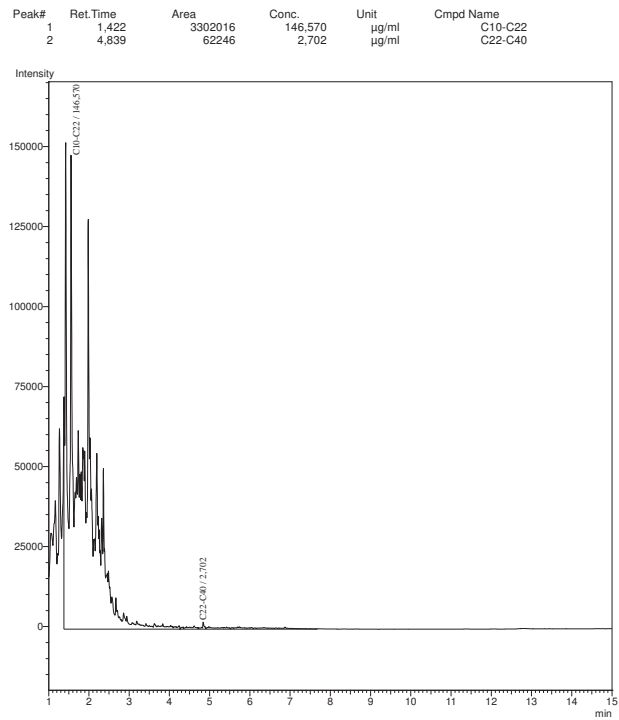
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 17:58:22
User Name : Admin
Vial# : 21
Sample Name : 69356
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\021_69356_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

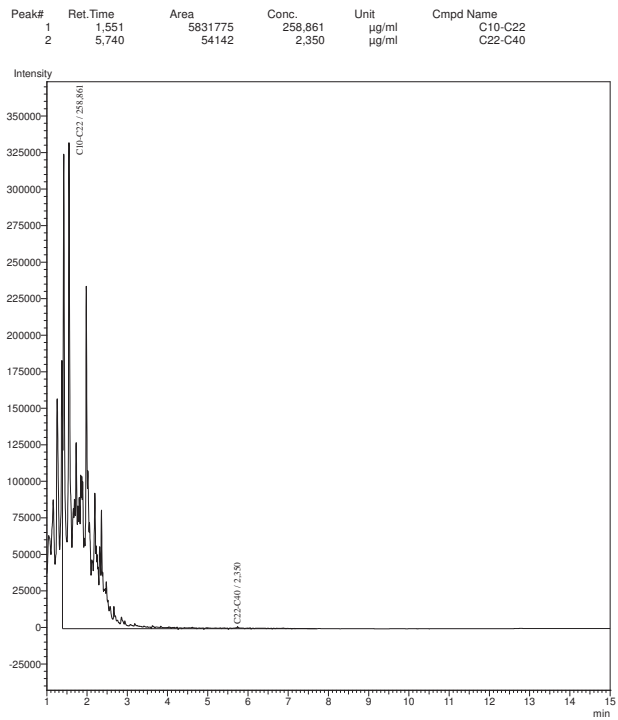
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 18:19:24
User Name : Admin
Vial# : 22
Sample Name : 69357
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\022_69357_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

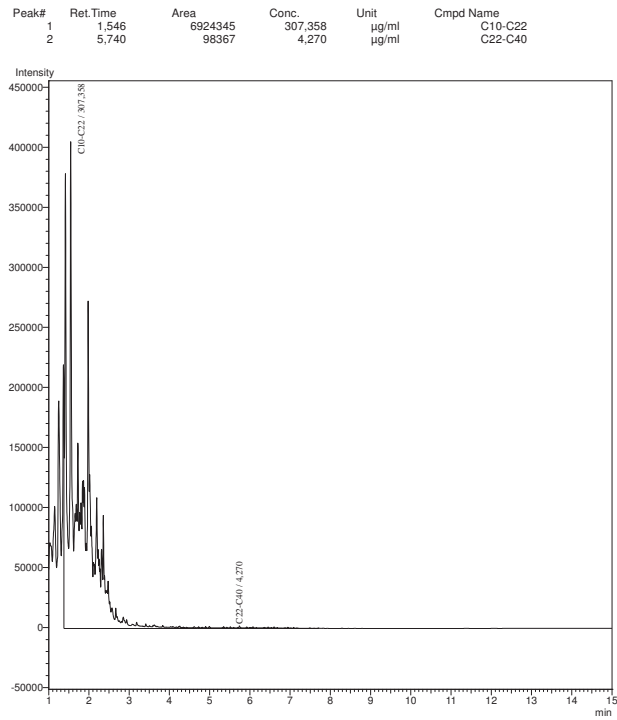
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 18:40:25
User Name : Admin
Vial# : 23
Sample Name : 69358
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\023_69358_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

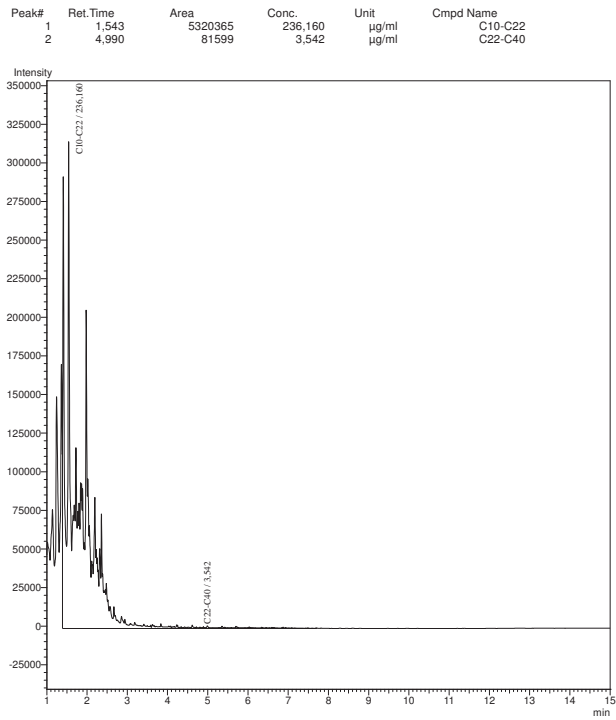
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 19:01:27
User Name : Admin
Vial# : 24
Sample Name : 69359
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\024_69359_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

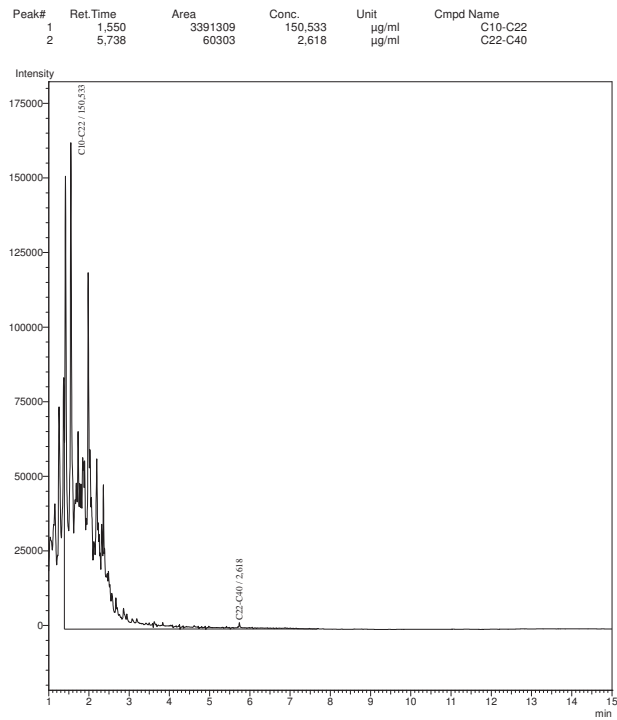
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 19:22:40
User Name : Admin
Vial# : 25
Sample Name : 69360
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181205\\025_69360_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181205\\rr_h53.gcm

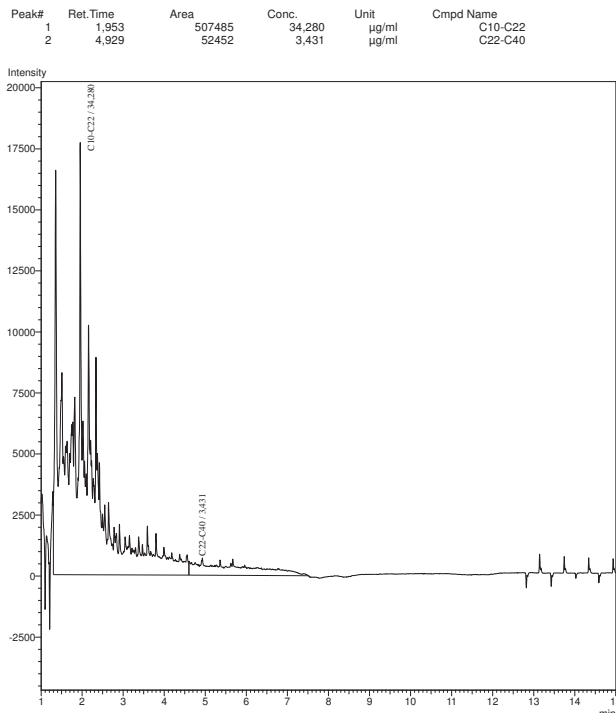
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 10:56:16
User Name : Admin
Vial# : 7
Sample Name : 69361
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181205\\007_69361_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181205\\rr_h53.gcm

Group Results - Channel 1

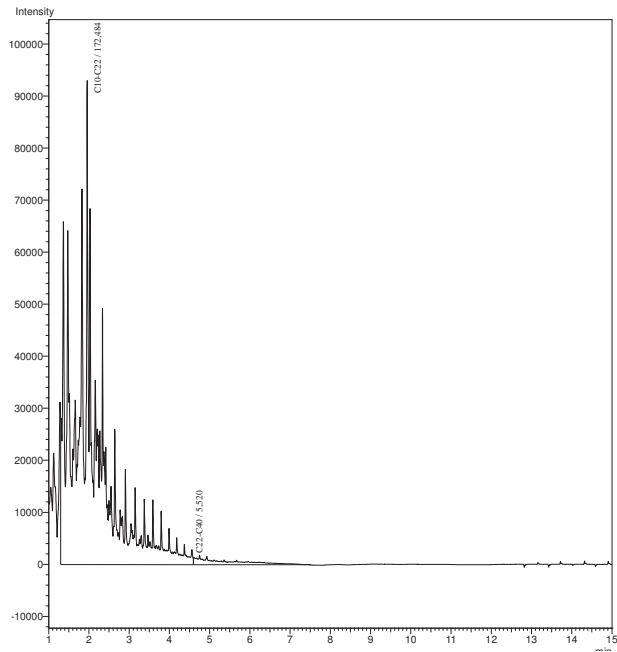


Analysis Date & Time : 05.12.2018 11:17:13
User Name : Admin
Vial# : 8
Sample Name : 69362
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\008_69362_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,955	2553444	172,464	µg/ml	C10-C22
2	4,747	84385	5,520	µg/ml	C22-C40

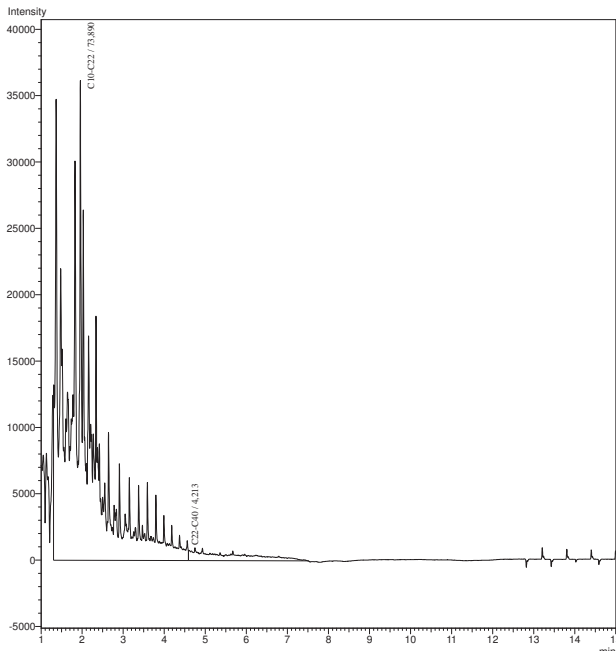


Analysis Date & Time : 05.12.2018 11:38:10
User Name : Admin
Vial# : 9
Sample Name : 69363
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\009_69363_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,956	1093871	73,890	µg/ml	C10-C22
2	4,747	64402	4,213	µg/ml	C22-C40

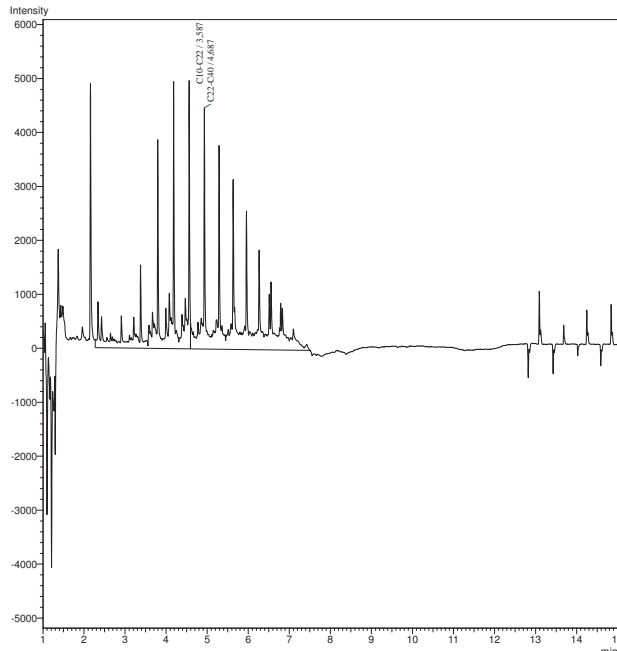


Analysis Date & Time : 05.12.2018 12:20:02
User Name : Admin
Vial# : 11
Sample Name : 69365
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\011_69365_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,560	53105	3,587	µg/ml	C10-C22
2	4,931	71656	4,687	µg/ml	C22-C40

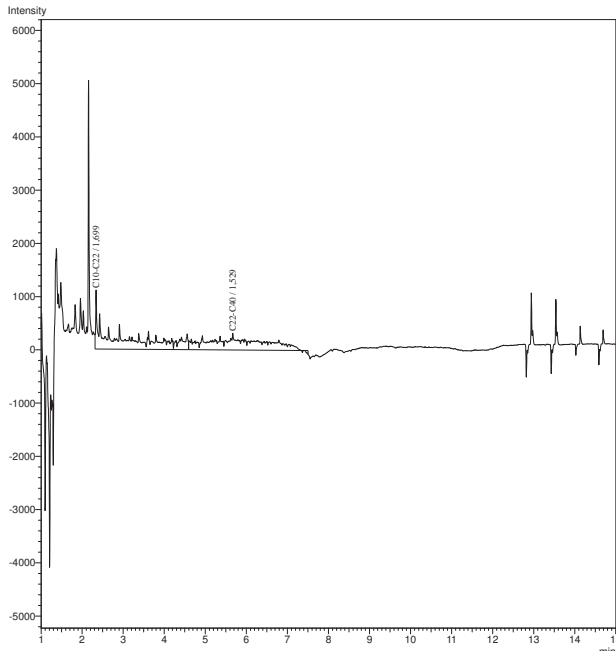


Analysis Date & Time : 05.12.2018 11:59:05
User Name : Admin
Vial# : 10
Sample Name : 69364
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\010_69364_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,339	25146	1,699	µg/ml	C10-C22
2	5,669	23367	1,529	µg/ml	C22-C40

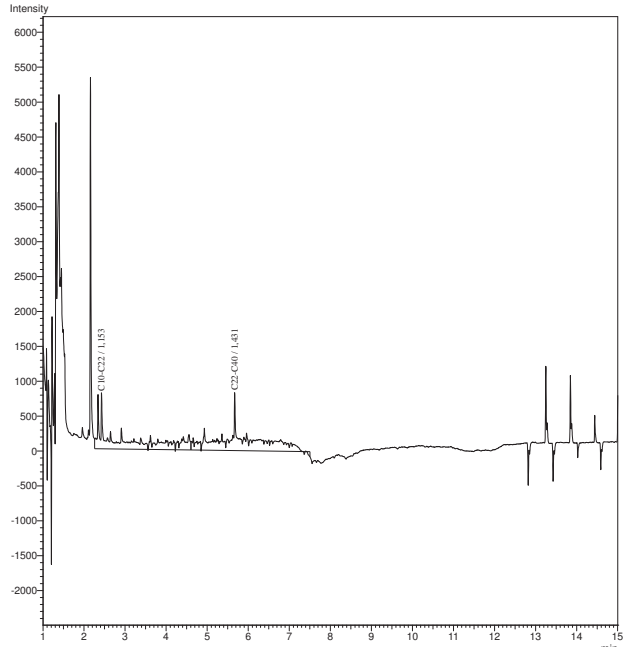


Analysis Date & Time : 05.12.2018 12:40:59
User Name : Admin
Vial# : 12
Sample Name : 69366
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\012_69366_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,426	17076	1,153	µg/ml	C10-C22
2	5,670	21874	1,431	µg/ml	C22-C40

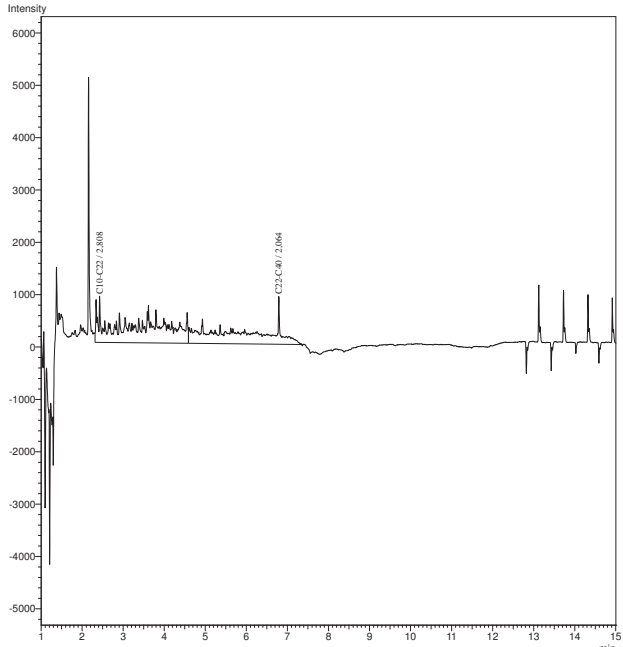


Analysis Date & Time : 05.12.2018 13:01:57
User Name : Admin
Vial# : 13
Sample Name : 69367
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\013_69367_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,425	41564	2,808	µg/ml	C10-C22
2	6,791	31553	2,064	µg/ml	C22-C40

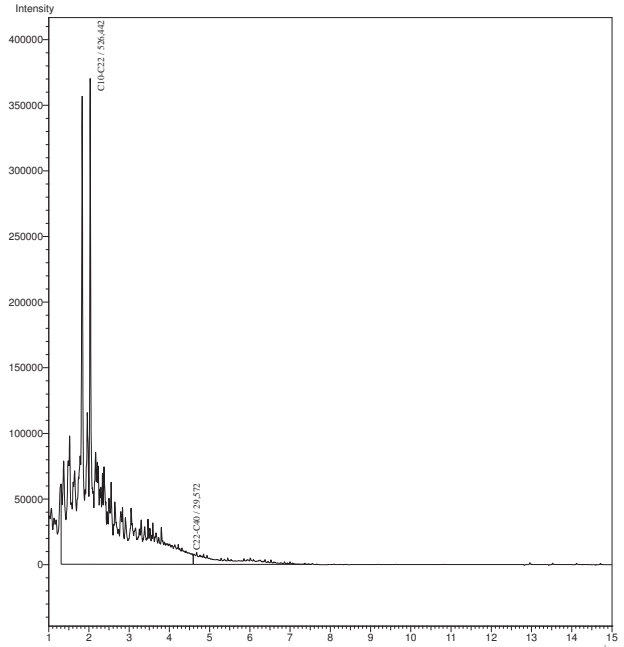


Analysis Date & Time : 05.12.2018 13:22:53
User Name : Admin
Vial# : 14
Sample Name : 69368
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\014_69368_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,031	7793443	526,442	µg/ml	C10-C22
2	4,677	452076	29,572	µg/ml	C22-C40

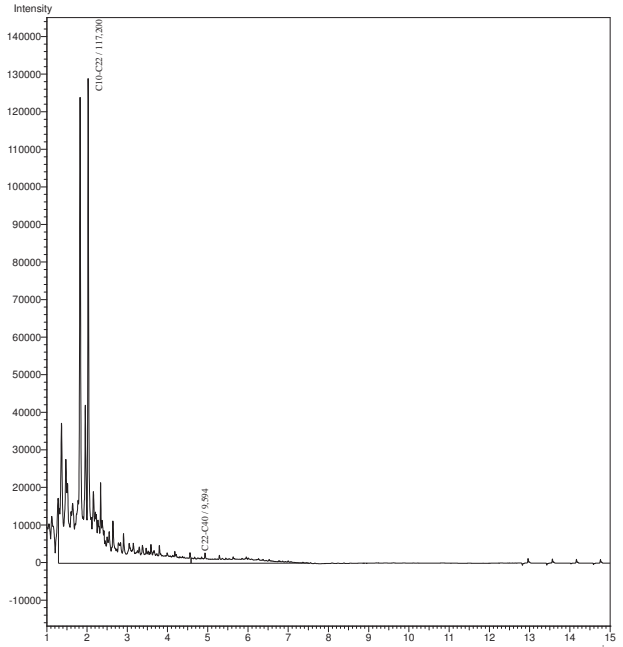


Analysis Date & Time : 05.12.2018 14:04:49
User Name : Admin
Vial# : 16
Sample Name : 69369
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\016_69369_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	1735033	117,200	µg/ml	C10-C22
2	4,932	146672	9,594	µg/ml	C22-C40

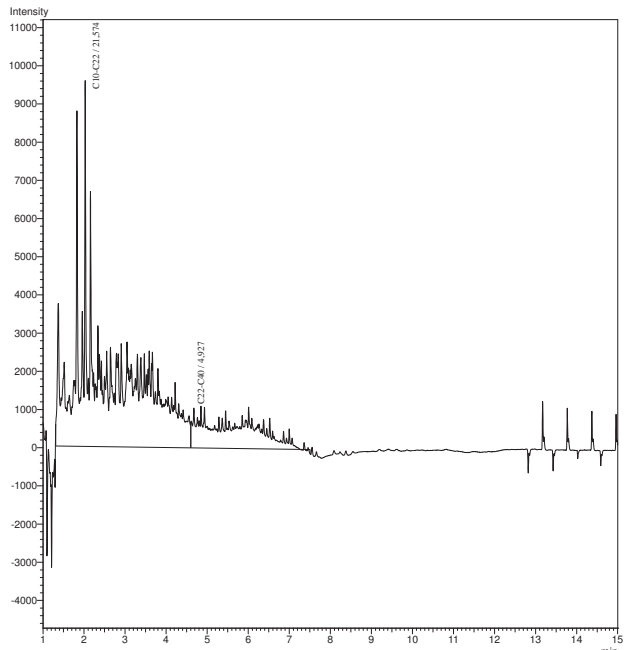


Analysis Date & Time : 05.12.2018 14:25:42
User Name : Admin
Vial# : 17
Sample Name : 69370
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\017_69370_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	319386	21,574	µg/ml	C10-C22
2	4,848	75325	4,927	µg/ml	C22-C40

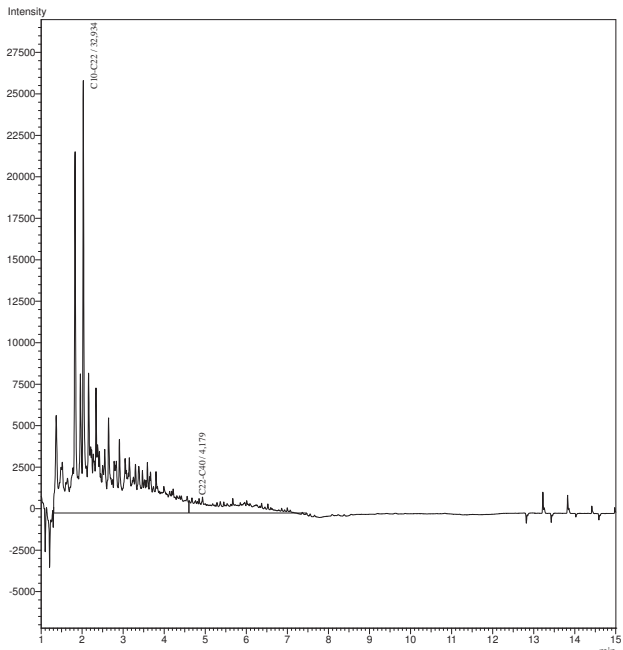


Analysis Date & Time : 05.12.2018 14:46:39
User Name : Admin
Vial# : 18
Sample Name : 69371
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\018_69371_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	487551	32,934	µg/ml	C10-C22
2	4,932	63884	4,179	µg/ml	C22-C40

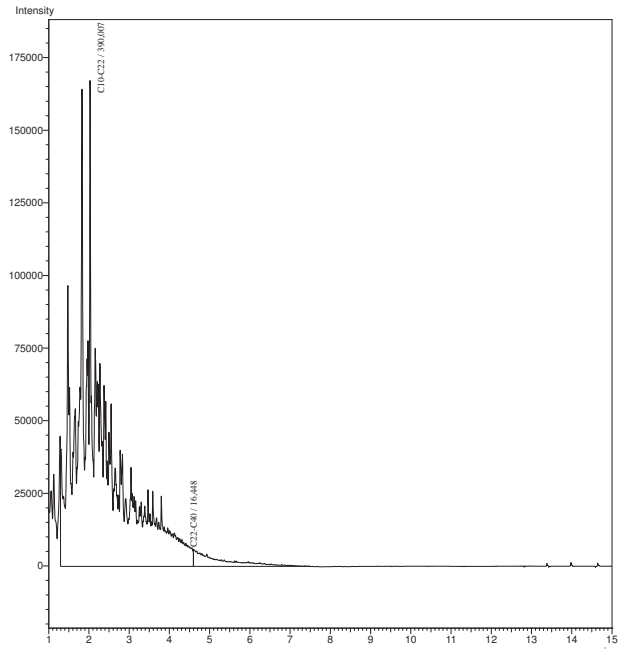


Analysis Date & Time : 05.12.2018 15:07:36
User Name : Admin
Vial# : 19
Sample Name : 69372
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\019_69372_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,029	5773655	390,007	µg/ml	C10-C22
2	4,604	251449	16,448	µg/ml	C22-C40

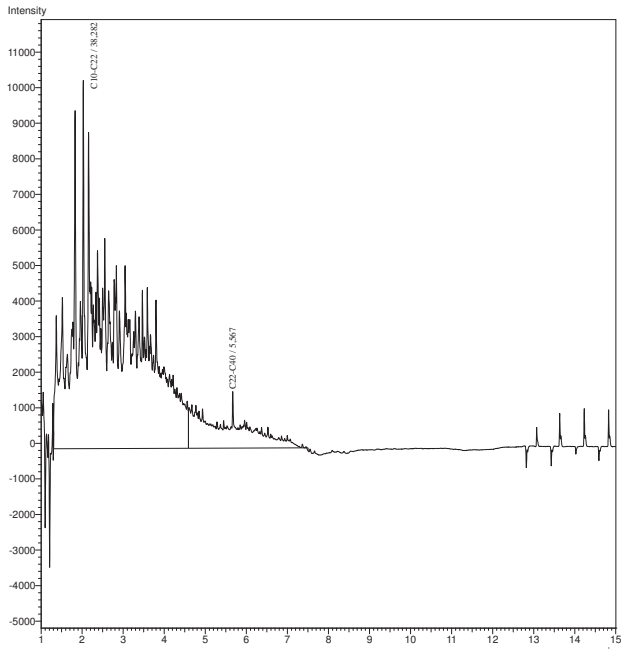


Analysis Date & Time : 05.12.2018 15:28:30
User Name : Admin
Vial# : 20
Sample Name : 69373
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\020_69373_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	566732	38,282	µg/ml	C10-C22
2	5,669	85109	5,567	µg/ml	C22-C40

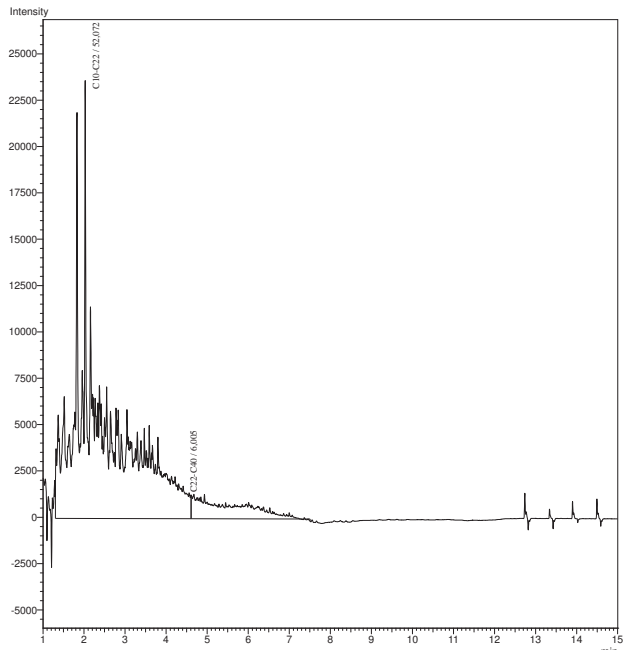


Analysis Date & Time : 05.12.2018 15:49:27
User Name : Admin
Vial# : 21
Sample Name : 69374
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\021_69374_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	770969	52,072	µg/ml	C10-C22
2	4,675	91795	6,005	µg/ml	C22-C40

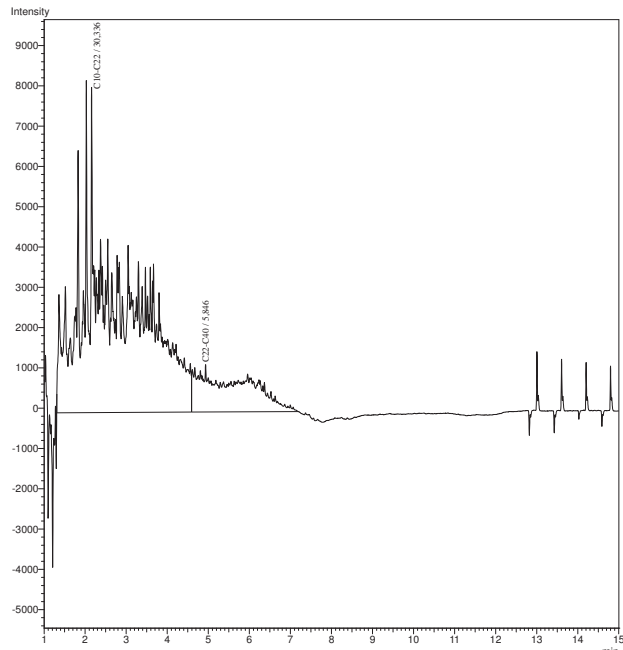


Analysis Date & Time : 05.12.2018 16:10:23
User Name : Admin
Vial# : 22
Sample Name : 69375
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\022_69375_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	449087	30,336	µg/ml	C10-C22
2	4,934	89365	5,846	µg/ml	C22-C40

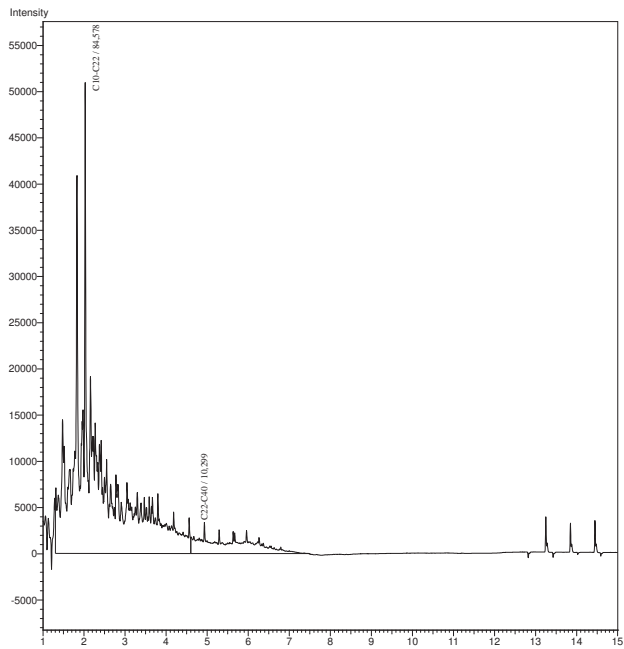


Analysis Date & Time : 05.12.2018 16:31:23
User Name : Admin
Vial# : 23
Sample Name : 69376
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\023_69376_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	1252090	84,578	µg/ml	C10-C22
2	4,932	157441	10,299	µg/ml	C22-C40

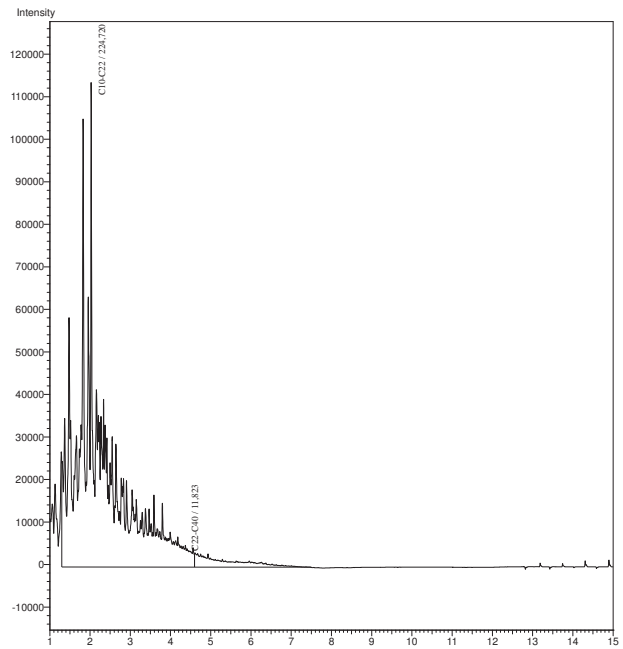


Analysis Date & Time : 05.12.2018 17:34:37
User Name : Admin
Vial# : 24
Sample Name : 69377
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181205\024_69377_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181205\rr_h53.gcm

Group Results - Channel 1

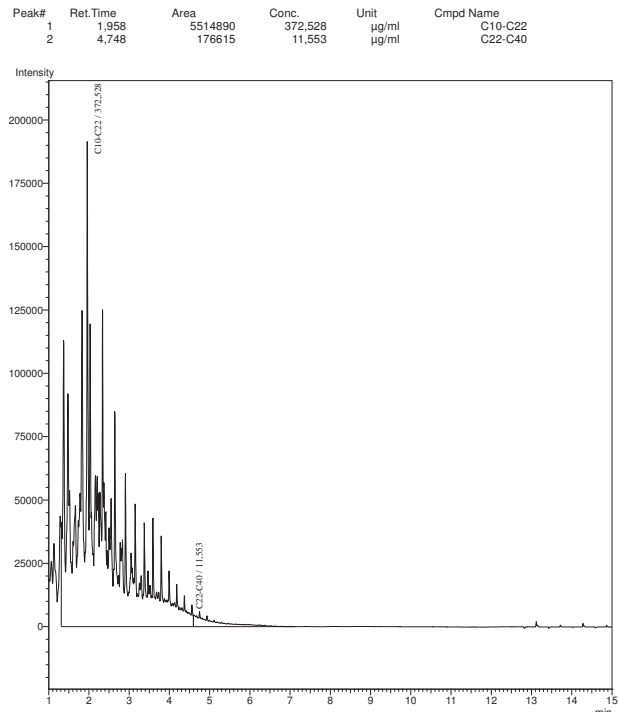
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,028	3326758	224,720	µg/ml	C10-C22
2	4,610	180743	11,823	µg/ml	C22-C40



Analysis Date & Time : 05.12.2018 17:55:31
User Name : Admin
Vial# : 25
Sample Name : 69378
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181205\\025_69378_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181205\\rr_h53.gcm

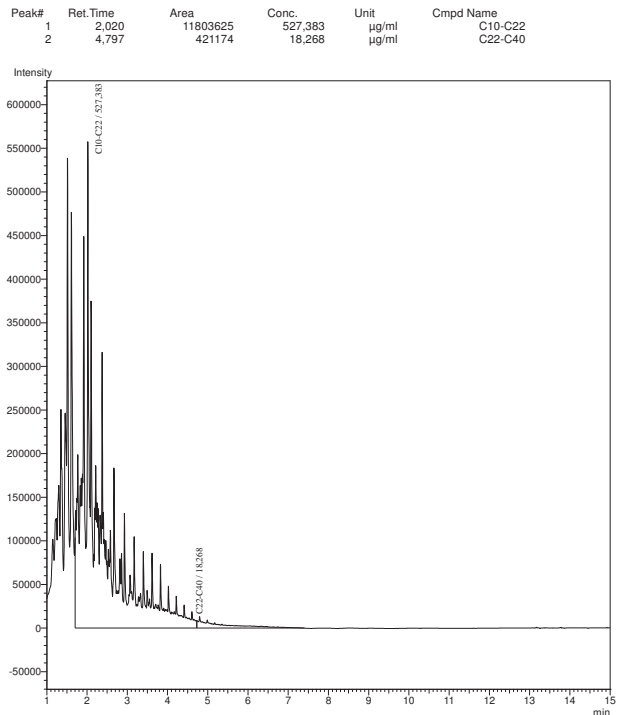
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 11:52:10
User Name : Admin
Vial# : 7
Sample Name : 69379
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\007_69379_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

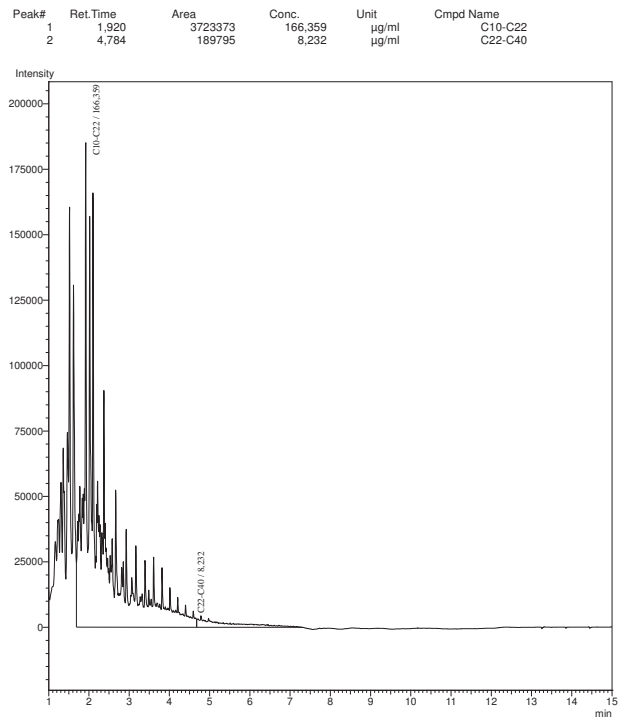
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 12:13:05
User Name : Admin
Vial# : 8
Sample Name : 69380
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\008_69380_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

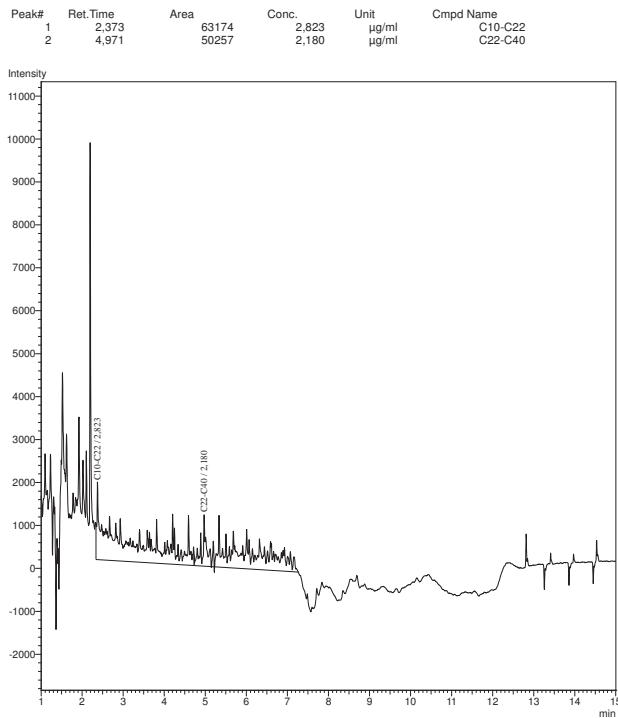
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 12:34:00
User Name : Admin
Vial# : 9
Sample Name : 69381
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\009_69381_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

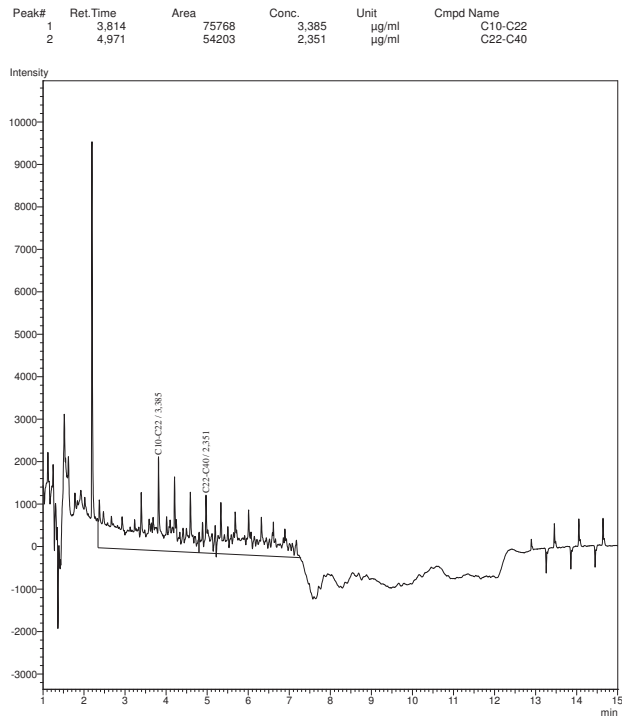
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 12:54:52
User Name : Admin
Vial# : 10
Sample Name : 69382
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\010_69382_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

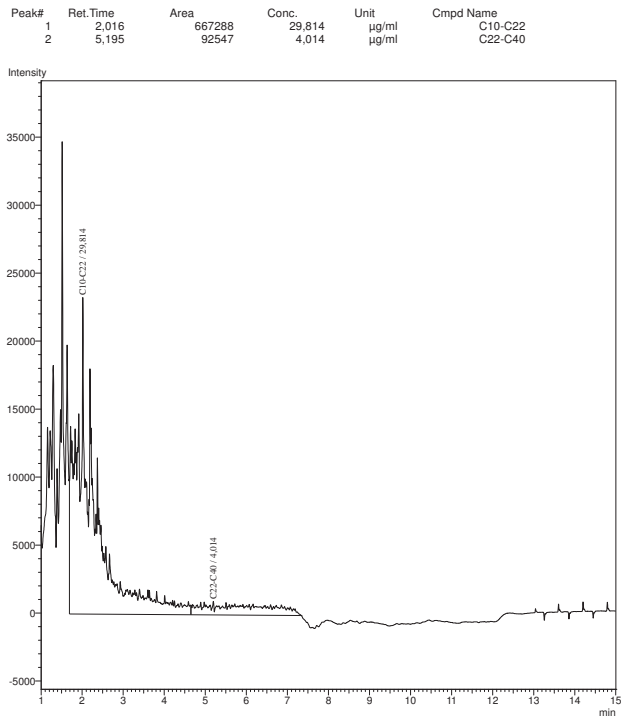
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 13:15:47
User Name : Admin
Vial# : 11
Sample Name : 69383
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\011_69383_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

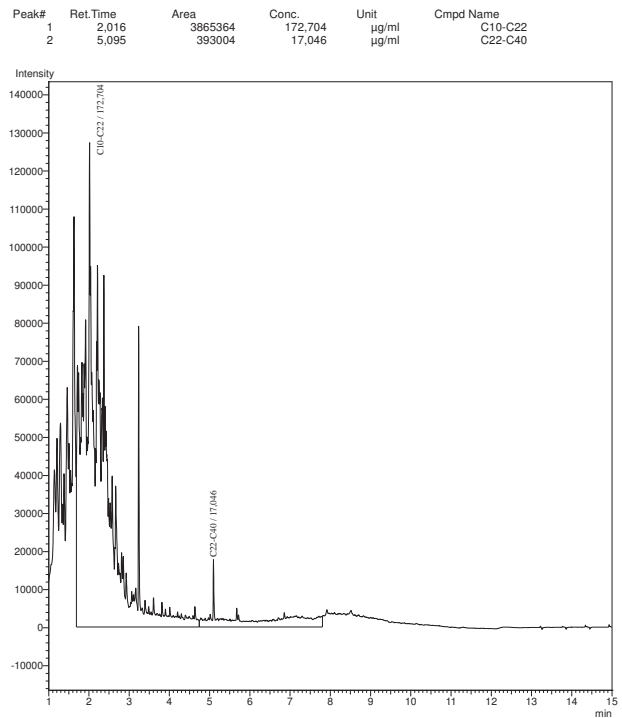
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 13:36:40
User Name : Admin
Vial# : 12
Sample Name : 69384
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\012_69384_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

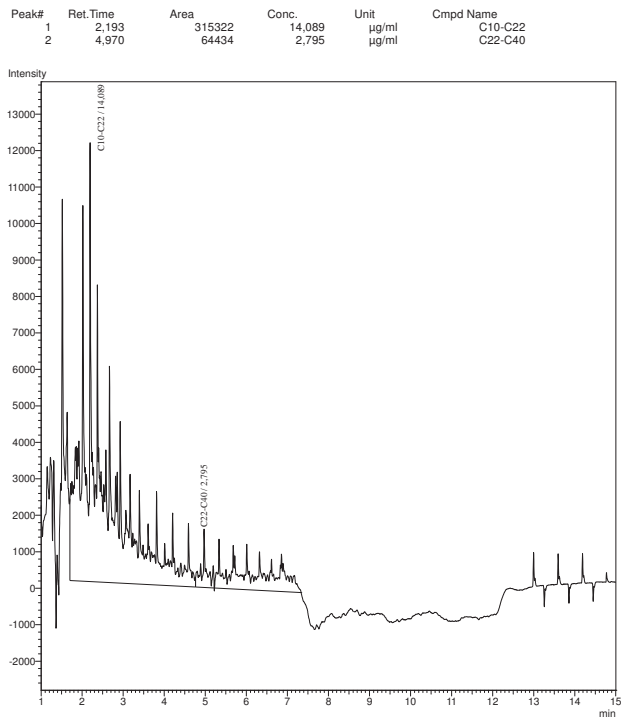
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 14:18:27
User Name : Admin
Vial# : 14
Sample Name : 69386
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\014_69386_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

Group Results - Channel 1

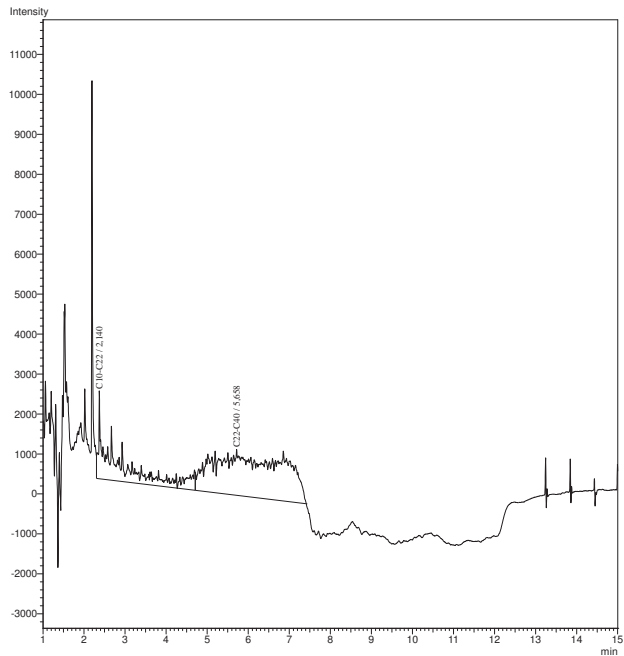


Analysis Date & Time : 05.12.2018 15:00:15
User Name : Admin
Vial# : 16
Sample Name : 69387
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\016_69387_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,373	47896	2,140	µg/ml	C10-C22
2	5,717	130454	5,658	µg/ml	C22-C40

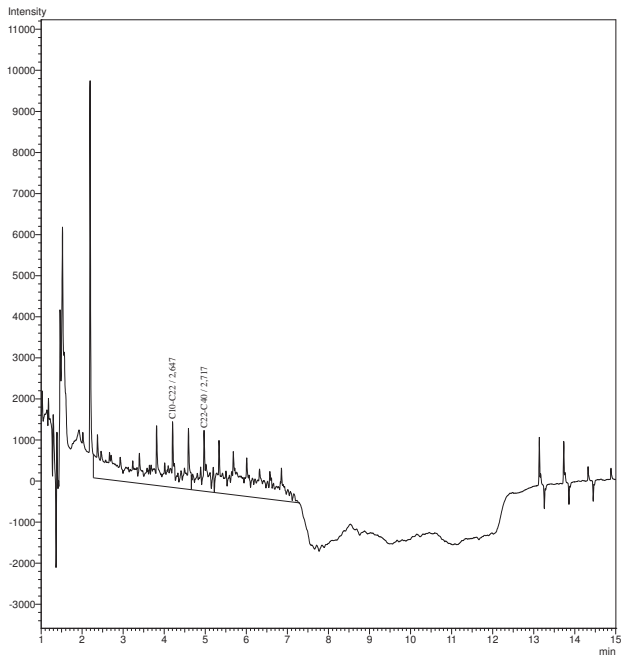


Analysis Date & Time : 05.12.2018 15:21:06
User Name : Admin
Vial# : 17
Sample Name : 69388
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\017_69388_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,204	59251	2,647	µg/ml	C10-C22
2	4,970	62633	2,717	µg/ml	C22-C40

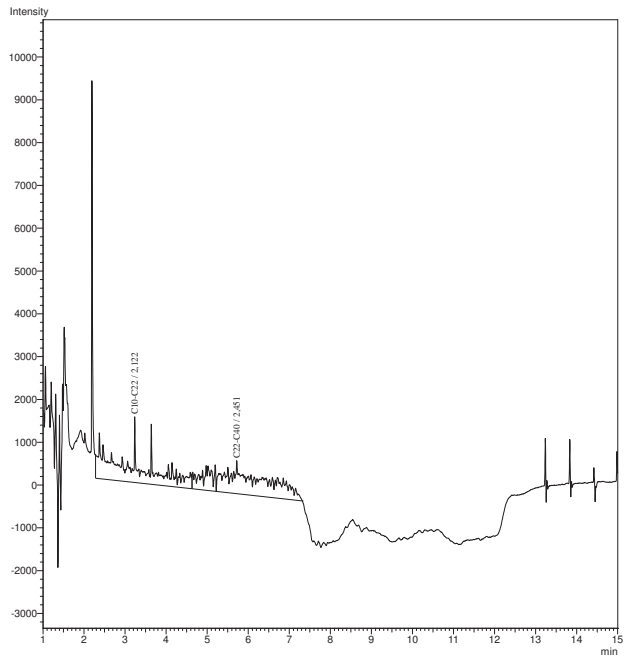


Analysis Date & Time : 05.12.2018 15:42:02
User Name : Admin
Vial# : 18
Sample Name : 69389
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\018_69389_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,235	47503	2,122	µg/ml	C10-C22
2	5,720	56519	2,451	µg/ml	C22-C40

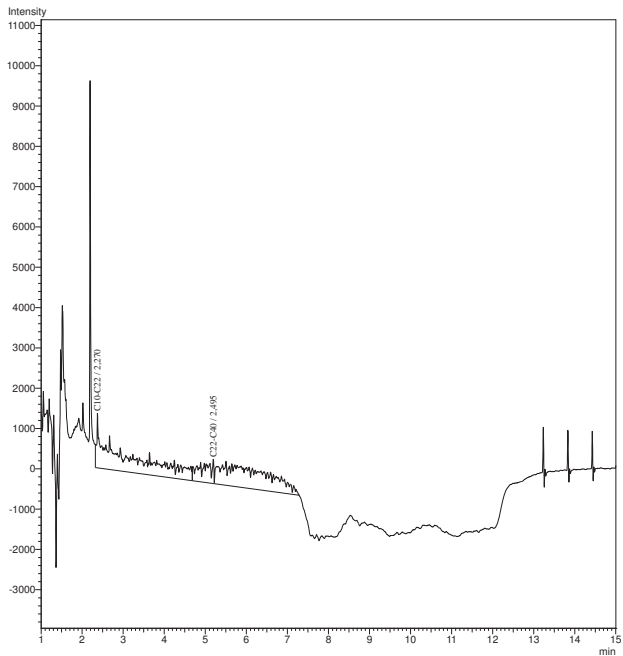


Analysis Date & Time : 05.12.2018 16:02:54
User Name : Admin
Vial# : 19
Sample Name : 69390
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\019_69390_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

Group Results - Channel 1

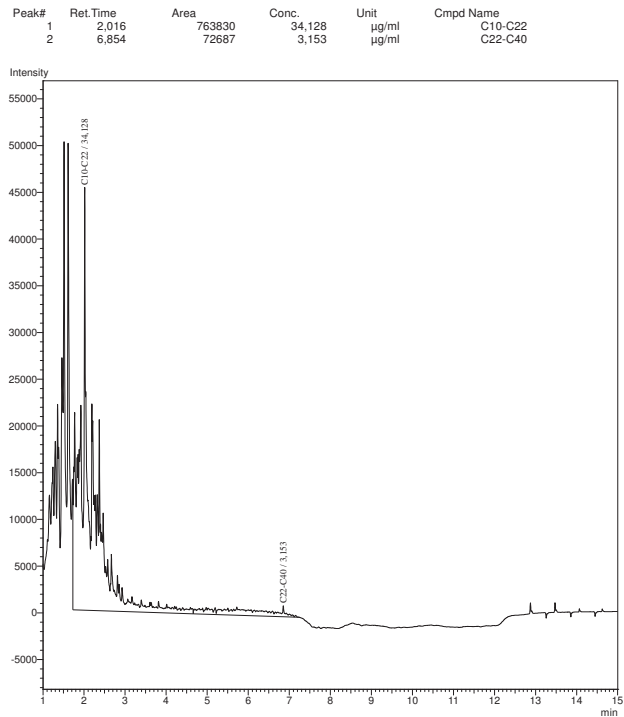
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,373	50804	2,270	µg/ml	C10-C22
2	5,195	57513	2,495	µg/ml	C22-C40



Analysis Date & Time : 05.12.2018 16:23:48
User Name : Admin
Vial# : 20
Sample Name : 69391
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\020_69391_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

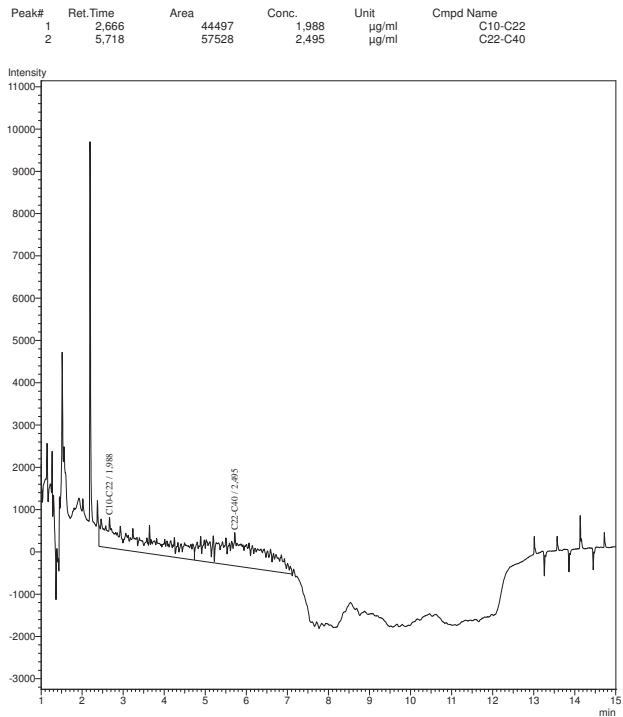
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 16:44:43
User Name : Admin
Vial# : 21
Sample Name : 69392
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\021_69392_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

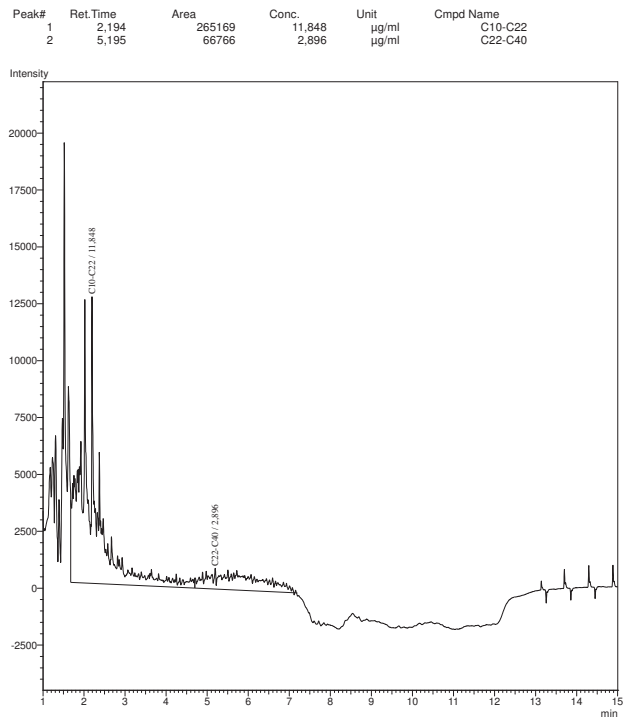
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 17:08:41
User Name : Admin
Vial# : 22
Sample Name : 69393
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\022_69393_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

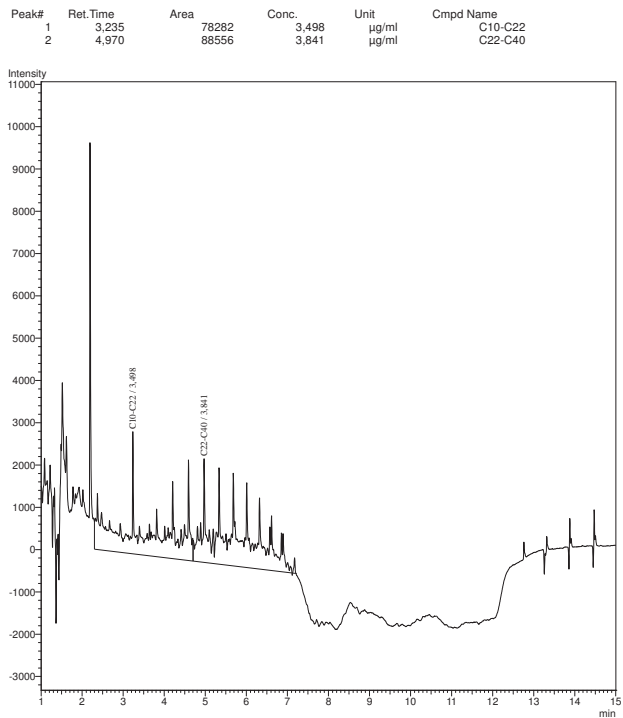
Group Results - Channel 1



Analysis Date & Time : 05.12.2018 17:29:37
User Name : Admin
Vial# : 23
Sample Name : 69394
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181205\\023_69394_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181205\\rr_h53.gcm

Group Results - Channel 1



Analysis Date & Time : 05.12.2018 17:50:33
User Name : Admin
Vial# : 24
Sample Name : 69395
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\f2_181205\\024_69395_01.gcd
Method Name : \\FID\\root_d\\2018\\f2_181205\\rr_h53.gcm



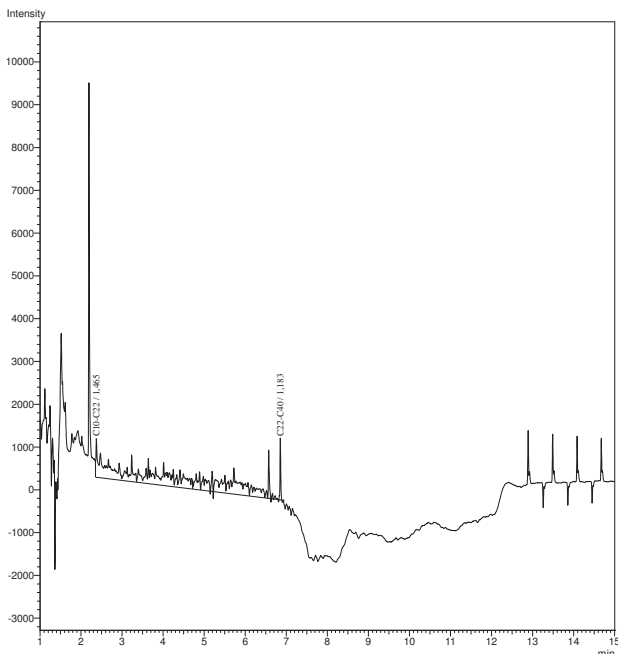
Laboratorien Dr. Döring Halferwende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33

10178 BERLIN

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,373	32900	1,465	µg/ml	C10-C22
2	6,854	27272	1,183	µg/ml	C22-C40



13. Dezember 2018

PRÜFBERICHT 10121895

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 10.12.2018
Probentransport: durch Laboratorien Dr. Döring GmbH am 10.12.2018
Probeneingang: 10.12.2018
Prüfzeitraum: 10.12.2018 – 13.12.2018
Probennummer: 70799 - 70809 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:

Der Meszfehler dieser Prüfungen befindet sich im üblichen Rahmen. Näheres teilen wir Ihnen auf Anfrage gerne mit.
Die Prüfergebnisse beziehen sich ausschließlich auf die angegebenen Prüfgegenstände. Eine auszugswiese
Vervielfältigung dieses Prüfberichts bedarf der schriftlichen Genehmigung durch die Laboratorien Dr. Döring GmbH.

Analysenbefunde: Seite 2
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01

Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

Prüfbericht 10121895.doc

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halferwende 12
28357 bremen
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fax 04 21 27 55 22

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treboldstraße 16
30455 hannover
fon 05 11 26 13 99 64
fax 05 11 2 65 67 90

barkhaus neelmeyer ag
swift neelde22
de95290200000000024000
ust-ldr de 170 350 601

gmh, hrb 15929
g/dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com



Labornummer	70799	70800	70801	70802
Probenbezeichnung	31-1	31-4	31-7	31-9
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	87,3	94,1	94,7	95,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylol	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	< 0,01
Summe BTX	0,02	n.n.	n.n.	n.n.

Labornummer	70803	70804	70805	70806
Probenbezeichnung	31-11	31-12	31-13	31-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,1	92,9	94,0	89,6
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	78	110	1.200
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	82	110	1.200
Benzol	< 0,01	< 0,01	< 0,01	1,61
Toluol	< 0,01	0,01	1,18	120
Ethylbenzol	< 0,01	0,06	2,78	102
Xylol	< 0,01	0,35	16,8	477
Trimethylbenzole	< 0,01	0,20	19,0	214
Summe BTX	n.n.	0,62	39,76	914,61

Labornummer	70807	70808	70809	
Probenbezeichnung	31-15	31-16	31-17	
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	
Trockenmasse [%]	87,8	78,5	79,6	
Kohlenwasserstoffe, n-C ₁₀₋₂₂	460	< 5	< 5	
Kohlenwasserstoffe, n-C ₁₀₋₄₀	460	6	5	
Benzol	0,65	0,04	0,01	
Toluol	27,3	0,16	0,01	
Ethylbenzol	23,5	0,25	0,13	
Xylol	119	0,75	0,15	
Trimethylbenzole	56,7	0,14	0,02	
Summe BTX	227,15	1,34	0,32	

Prüfbericht 10121895.doc

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fon 05 54 1 9 83 40
fax 05 54 1 98 34 55

treboldstraße 16
30455 hannover
fon 05 11 26 13 99 64
fax 05 11 2 65 67 90

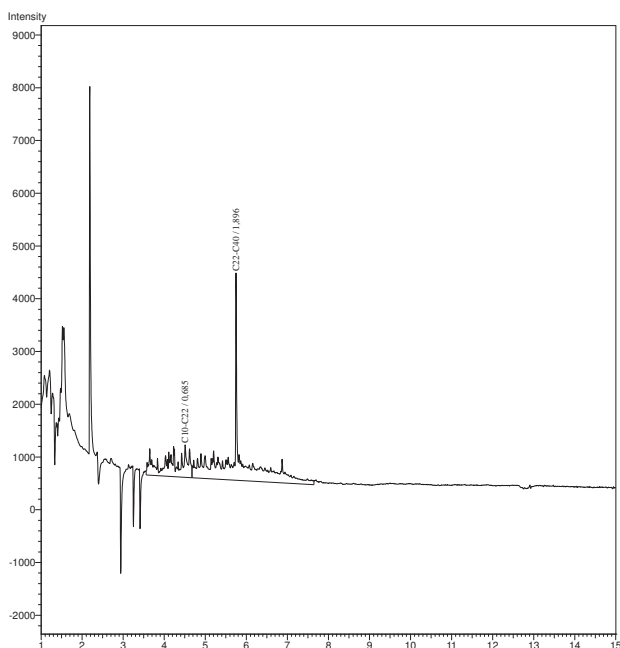
barkhaus neelmeyer ag
swift neelde22
de95290200000000024000
ust-ldr de 170 350 601

gmh, hrb 15929
g/dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com

Analysis Date & Time : 11.12.2018 10:29:23
User Name : Admin
Vial# : 7
Sample Name : 70799
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181211\\007_70799_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181211\\rr_h53.gcm

Group Results - Channel 1

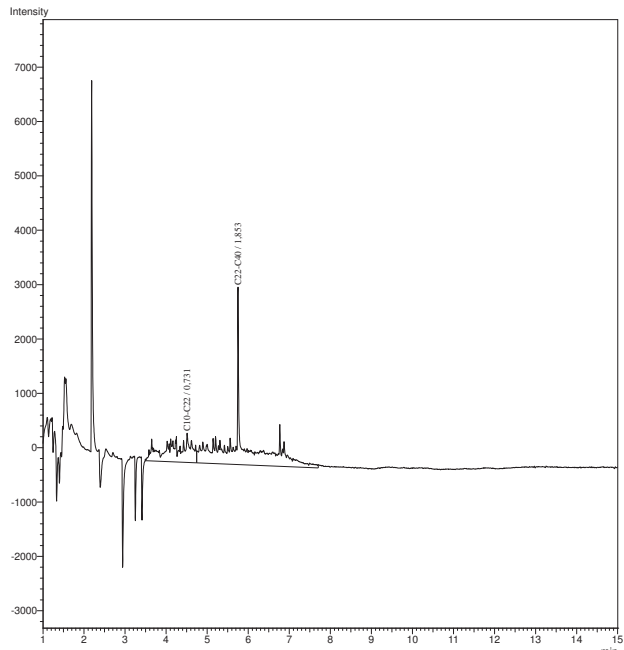
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,509	15938	0,685	µg/ml	C10-C22
2	5,748	44773	1,896	µg/ml	C22-C40



Analysis Date & Time : 11.12.2018 10:50:23
User Name : Admin
Vial# : 8
Sample Name : 70800
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\fid\\root_d\\2018\\fid_181211\\008_70800_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181211\\rr_h53.gcm

Group Results - Channel 1

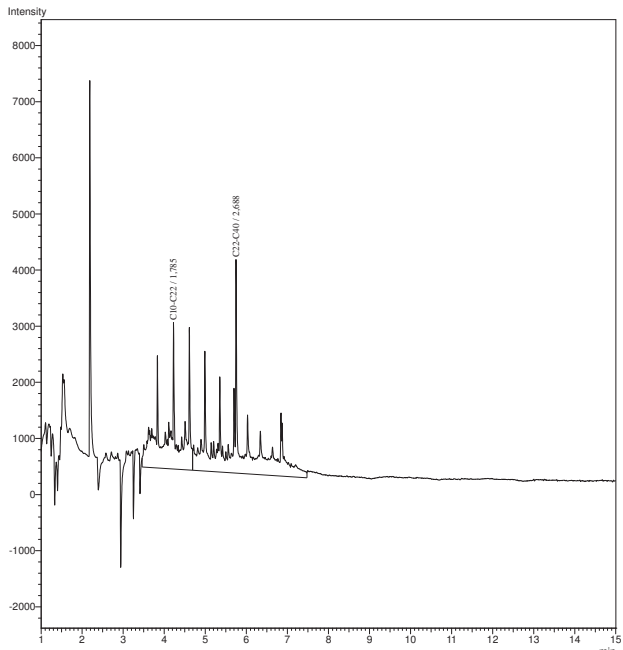
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,510	17012	0,731	µg/ml	C10-C22
2	5,750	43752	1,853	µg/ml	C22-C40



Analysis Date & Time : 11.12.2018 11:11:24
User Name : Admin
Vial# : 9
Sample Name : 70801
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\fid\\root_d\\2018\\fid_181211\\009_70801_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181211\\rr_h53.gcm

Group Results - Channel 1

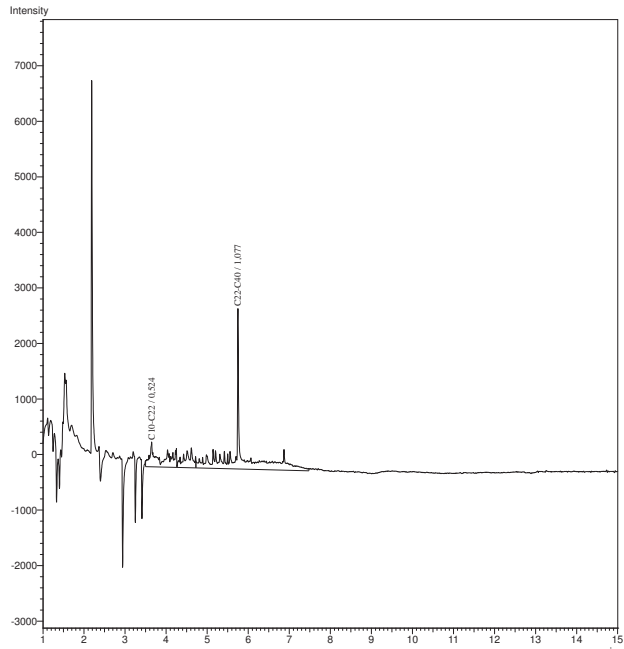
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,226	41536	1,785	µg/ml	C10-C22
2	5,749	63470	2,688	µg/ml	C22-C40



Analysis Date & Time : 11.12.2018 11:32:23
User Name : Admin
Vial# : 10
Sample Name : 70802
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\fid\\root_d\\2018\\fid_181211\\010_70802_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181211\\rr_h53.gcm

Group Results - Channel 1

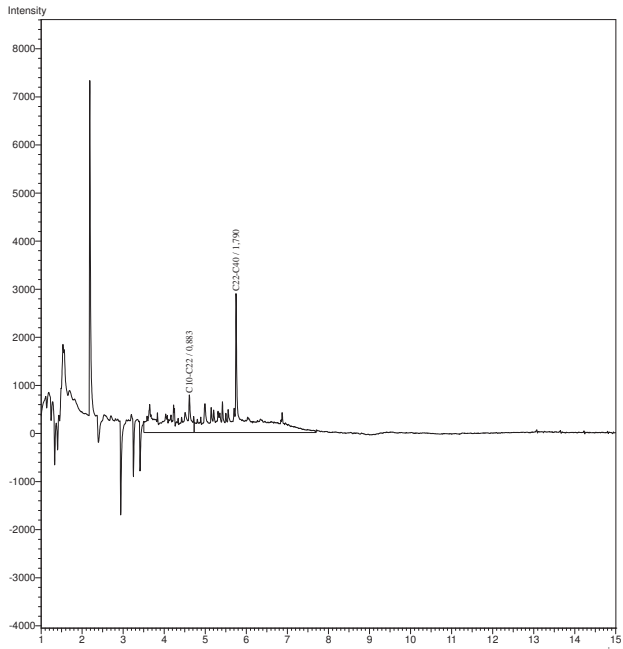
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,647	12185	0,524	µg/ml	C10-C22
2	5,749	25427	1,077	µg/ml	C22-C40



Analysis Date & Time : 11.12.2018 11:53:22
User Name : Admin
Vial# : 11
Sample Name : 70803
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\fid\\root_d\\2018\\fid_181211\\011_70803_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181211\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,612	20541	0,883	µg/ml	C10-C22
2	5,749	42252	1,790	µg/ml	C22-C40

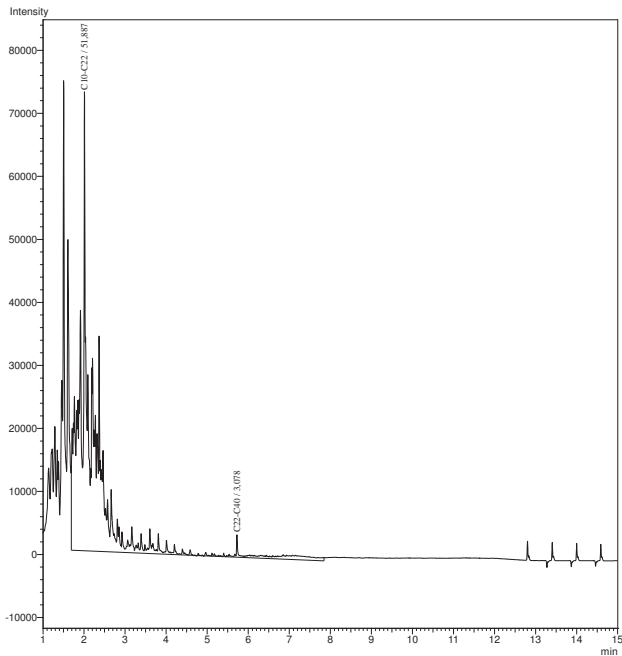


Analysis Date & Time : 11.12.2018 11:52:21
User Name : Admin
Vial# : 7
Sample Name : 70804
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181211\\007_70804_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181211\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,010	1159975	51,887	µg/ml	C10-C22
2	5,724	69925	3,078	µg/ml	C22-C40

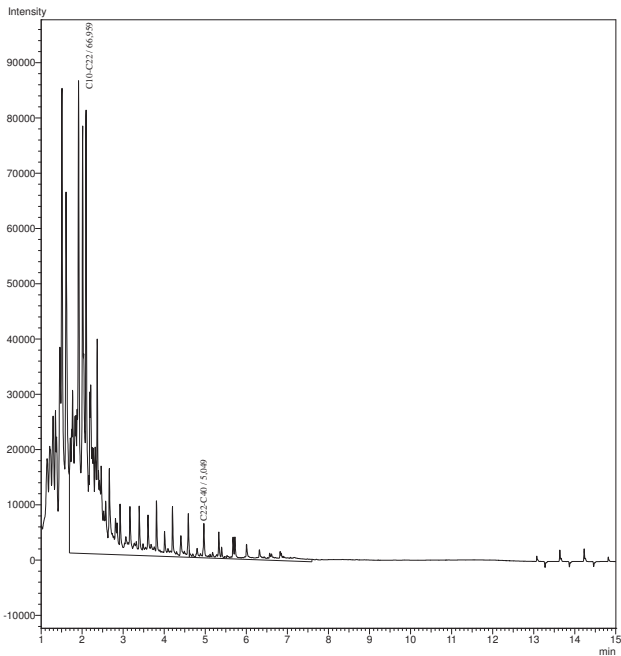


Analysis Date & Time : 11.12.2018 12:13:14
User Name : Admin
Vial# : 8
Sample Name : 70805
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181211\\008_70805_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181211\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,912	1496920	66,959	µg/ml	C10-C22
2	4,965	114686	5,049	µg/ml	C22-C40

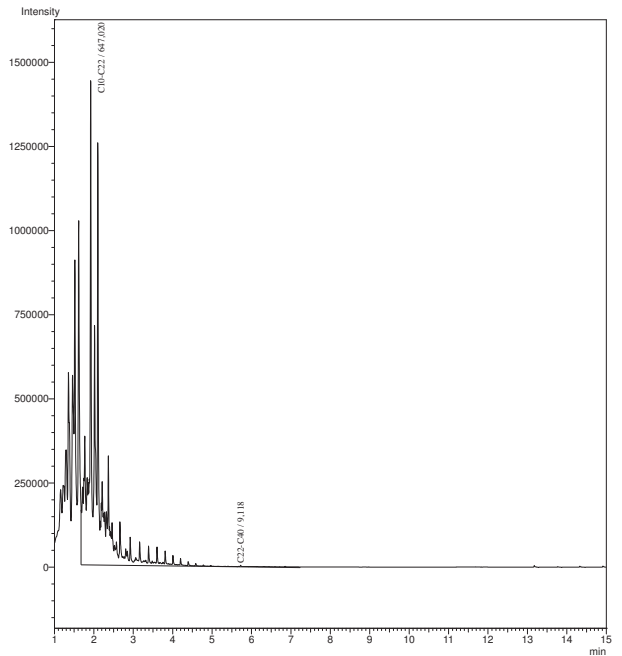


Analysis Date & Time : 11.12.2018 12:34:06
User Name : Admin
Vial# : 9
Sample Name : 70806
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181211\\009_70806_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181211\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,920	14464598	647,020	µg/ml	C10-C22
2	5,723	207104	9,118	µg/ml	C22-C40

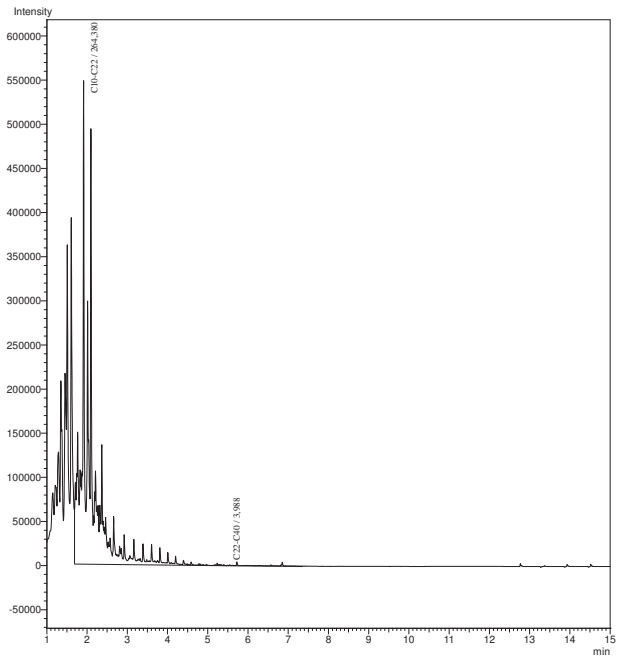


Analysis Date & Time : 11.12.2018 12:54:59
User Name : Admin
Vial# : 10
Sample Name : 70807
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181211\\010_70807_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181211\\rr_h53.gcm

Group Results - Channel 1

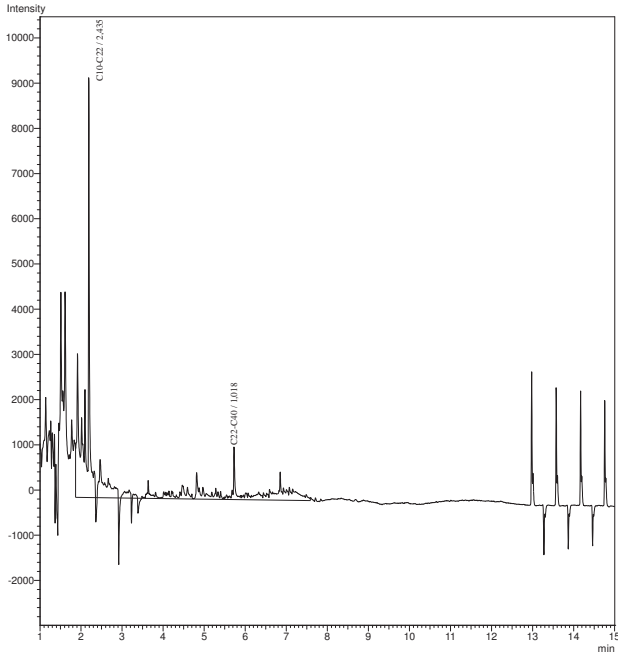
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,914	5910412	264,380	µg/ml	C10-C22
2	5,723	90579	3,988	µg/ml	C22-C40



Analysis Date & Time : 11.12.2018 13:15:54
User Name : Admin
Vial# : 11
Sample Name : 70808
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FI2\\root_d\\2018\\fi2_181211\\011_70808_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181211\\rr_h53.gcm

Group Results - Channel 1

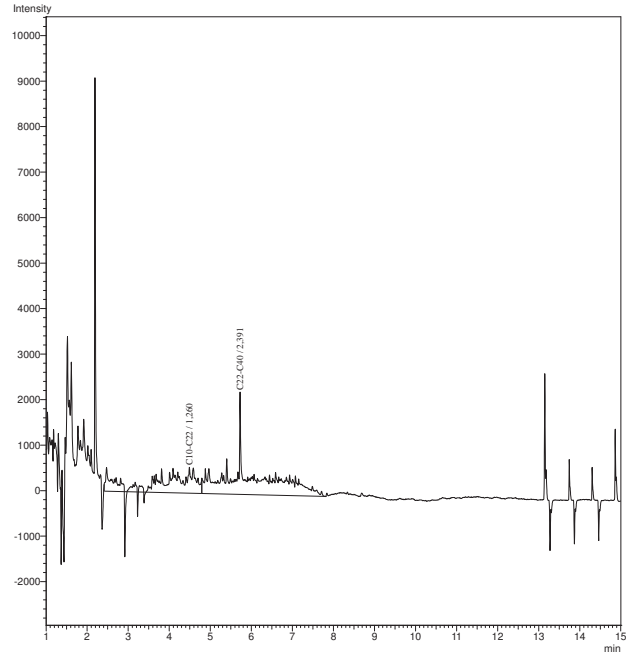
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,189	54433	2,435	µg/ml	C10-C22
2	5,727	23134	1,018	µg/ml	C22-C40



Analysis Date & Time : 11.12.2018 13:36:48
User Name : Admin
Vial# : 12
Sample Name : 70809
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FI2\\root_d\\2018\\fi2_181211\\012_70809_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181211\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,490	28171	1,260	µg/ml	C10-C22
2	5,724	54311	2,391	µg/ml	C22-C40



Laboratorien Dr. Döring, Hafenwende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33
10178 BERLIN

14. Dezember 2018

PRÜFBERICHT 11121861

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 10.12.2018
Proben transport: durch Laboratorien Dr. Döring GmbH am 10.12.2018
Probeneingang: 10.12.2018
Prüfzeitraum: 10.12.2018 – 13.12.2018
Probennummer: 71018 - 71055 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:

Analysenbefunde: Seite 2 - 5
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTEX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01

Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)



Labornummer	71018	71019	71020	71021
Probenbezeichnung	32-1	32-2	32-3	32-4
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	91,3	94,0	93,2	95,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	150	1.600	150
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	150	1.600	160
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,05	0,01	0,16	0,05
Xylol	0,32	0,14	1,98	0,35
Trimethylbenzole	0,11	0,20	59,6	8,01
Summe BTEX	0,48	0,35	61,69	8,41

Labornummer	71022	71023	71024	71025
Probenbezeichnung	32-5	32-6	32-8	32-9
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	73,5	93,1	93,3	91,3
Kohlenwasserstoffe, n-C ₁₀₋₂₂	140	510	600	1.100
Kohlenwasserstoffe, n-C ₁₀₋₄₀	140	510	610	1.100
Benzol	< 0,01	< 0,01	< 0,01	0,06
Toluol	< 0,01	< 0,01	< 0,01	0,25
Ethylbenzol	< 0,01	0,62	4,8	21,6
Xylol	0,04	6,09	33,5	150
Trimethylbenzole	3,63	62,0	129	285
Summe BTEX	3,67	68,71	167,3	456,91

Labornummer	71026	71027	71028	71029
Probenbezeichnung	32-11	32-13	32-14	32-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	92,0	92,9	89,2	87,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	370	310	770	560
Kohlenwasserstoffe, n-C ₁₀₋₄₀	370	320	780	570
Benzol	< 0,01	< 0,01	0,28	0,28
Toluol	< 0,01	< 0,01	0,39	0,89
Ethylbenzol	3,17	0,99	23,4	12,2
Xylol	41,1	11,4	125	86,2
Trimethylbenzole	71,3	27,4	98,3	65,2
Summe BTEX	115,57	39,79	247,37	164,77

Labornummer	71030	71031	71032	71033
Probenbezeichnung	32-16	32-17	40-1	40-3
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	84,2	80,9	87,0	94,6
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	6
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	8
Benzol	< 0,01	0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,01	0,04	< 0,01	0,08
Xylole	0,28	0,08	< 0,01	0,44
Trimethylbenzole	0,06	< 0,01	< 0,01	0,32
Summe BTEX	0,35	0,13	n.n.	0,84

Labornummer	71034	71035	71036	71037
Probenbezeichnung	40-4	40-7	40-9	40-10
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,5	96,4	94,7	94,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	9	360	500	220
Kohlenwasserstoffe, n-C ₁₀₋₄₀	10	360	500	230
Benzol	< 0,01	0,02	< 0,01	0,02
Toluol	< 0,01	0,14	0,46	0,41
Ethylbenzol	< 0,01	4,69	10,7	3,46
Xylole	< 0,01	31,6	61,8	21,7
Trimethylbenzole	0,07	52,4	64,3	24,3
Summe BTEX	0,07	88,85	137,26	49,89

Labornummer	71038	71039	71040	71041
Probenbezeichnung	40-12	40-13	40-14	40-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,0	94,1	91,2	85,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	120	120	370	200
Kohlenwasserstoffe, n-C ₁₀₋₄₀	120	120	370	200
Benzol	< 0,01	< 0,01	< 0,01	0,05
Toluol	0,22	0,35	2,14	3,14
Ethylbenzol	1,77	1,93	5,57	5,47
Xylole	8,94	9,50	29,9	29,4
Trimethylbenzole	10,3	10,1	23,3	17,9
Summe BTEX	21,23	21,88	60,91	55,96

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ust-ldnr de 170 350 601

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gf dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com

Labornummer	71042	71043	71044	71045
Probenbezeichnung	40-16	40-17	44-1	44-2
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	79,6	77,7	84,0	84,3
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	170	140
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	170	150
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	0,06	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,19	0,11	0,96	0,62
Xylole	0,69	0,35	2,77	1,57
Trimethylbenzole	0,16	0,14	10,5	1,93
Summe BTEX	1,10	0,60	14,23	4,12

Labornummer	71046	71047	71048	71049
Probenbezeichnung	44-3	44-4	44-5	44-8
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	96,1	96,2	94,9	96,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	240	180	120	25
Kohlenwasserstoffe, n-C ₁₀₋₄₀	250	180	120	27
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,80	0,89	0,18	0,08
Xylole	1,75	1,99	0,44	0,20
Trimethylbenzole	6,81	10,4	3,87	1,39
Summe BTEX	9,36	13,28	4,49	1,67

Labornummer	71050	71051	71052	71053
Probenbezeichnung	44-9	44-12	44-14	44-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	96,1	95,7	91,1	86,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	5	5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	5	5	6	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	0,02
Ethylbenzol	< 0,01	< 0,01	< 0,01	0,04
Xylole	< 0,01	0,02	< 0,01	0,21
Trimethylbenzole	0,01	0,15	0,05	0,12
Summe BTEX	0,01	0,17	0,05	0,39

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28357 bremen
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ust-ldnr de 170 350 601

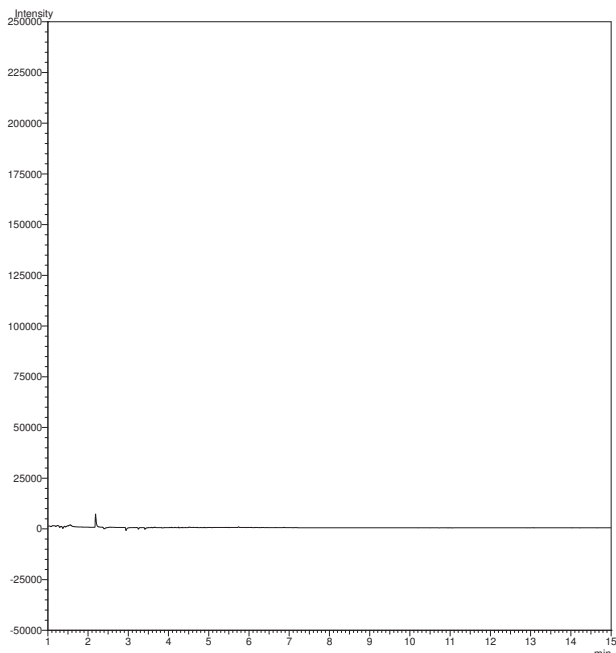
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gf dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com

Labornummer	71054	71055		
Probenbezeichnung	44-16	44-17		
Dimension	[mg/kg TS]	[mg/kg TS]		
Trockenmasse [%]	81,1	84,2		
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5		
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5		
Benzol	< 0,01	< 0,01		
Toluol	< 0,01	< 0,01		
Ethylbenzol	0,02	0,04		
Xylole	0,13	0,25		
Trimethylbenzole	0,04	0,06		
Summe BTEX	0,19	0,35		

Analysis Date & Time : 12.12.2018 10:24:51
User Name : Admin
Vial# : 7
Sample Name : 71018
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fidroot_d\2018\fid_181212\007_71018_001.gcd
Method Name : \\fidroot_d\2018\fid_181212\rr_h53.gcm

Group Results - Channel 1



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30455 hannover
fon 05 11 26 13 99 64
fax 05 11 2 62 67 90

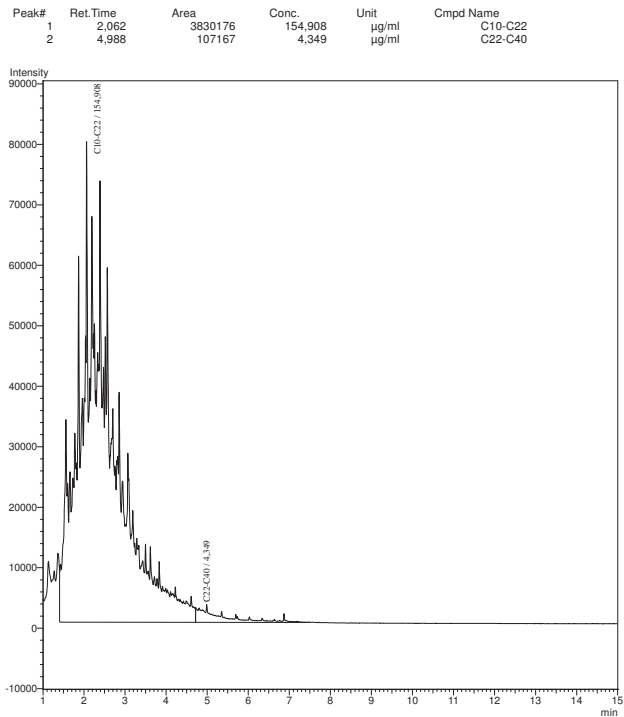
bankhaus neelmeyer ag
swift neelds22
de95290200000000024000
ust-ldnr de 170 350 601

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gf dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com

Analysis Date & Time : 12.12.2018 10:45:51
User Name : Admin
Vial# : 8
Sample Name : 71019
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\008_71019_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

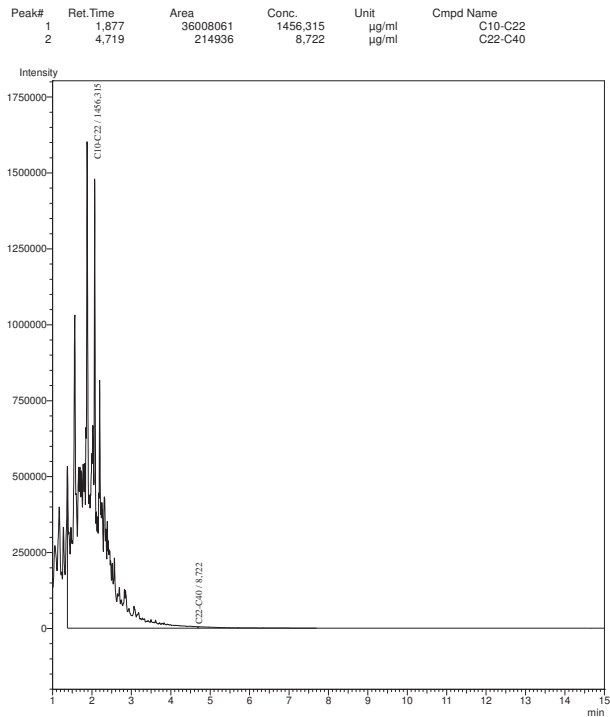
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 11:06:53
User Name : Admin
Vial# : 9
Sample Name : 71020
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

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Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

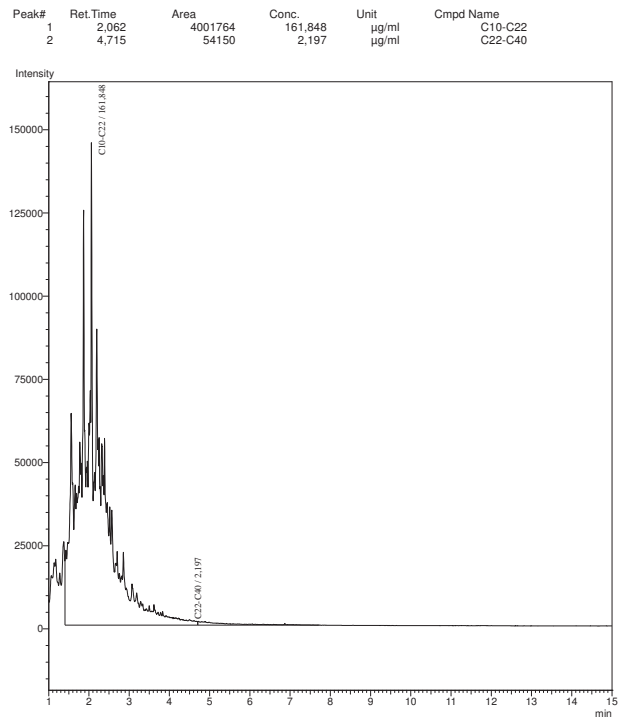
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 11:27:56
User Name : Admin
Vial# : 10
Sample Name : 71021
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\010_71021_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

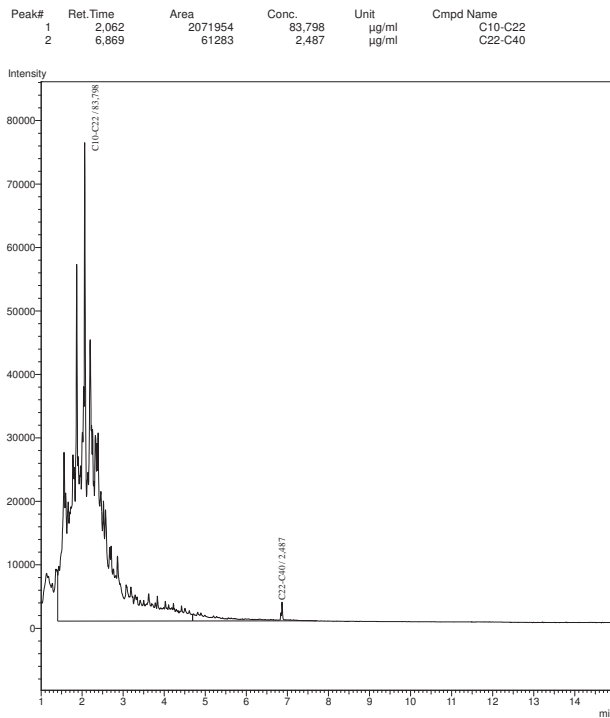
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 11:48:58
User Name : Admin
Vial# : 11
Sample Name : 71022
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\011_71022_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

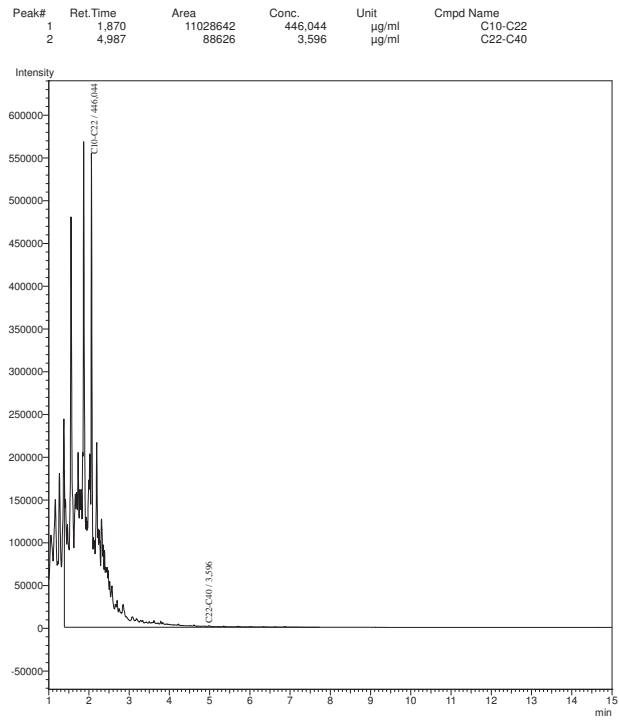
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:09:57
User Name : Admin
Vial# : 12
Sample Name : 71023
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\012_71023_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

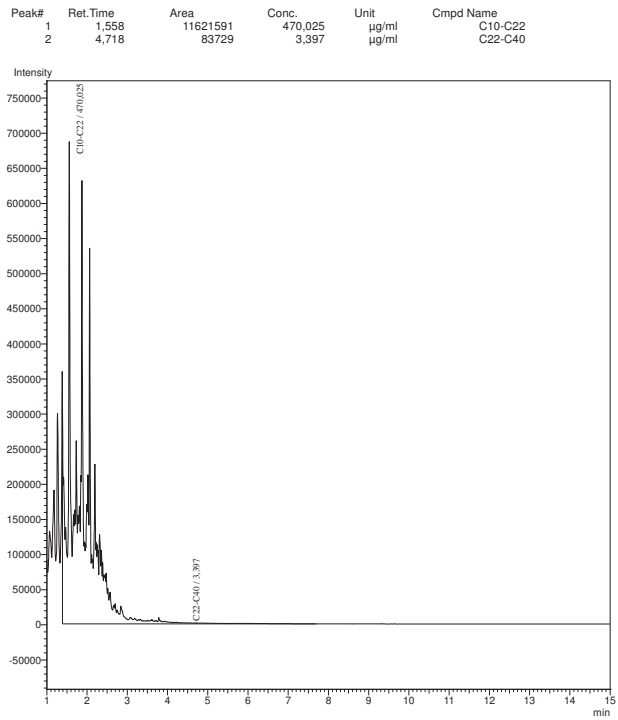
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:30:59
User Name : Admin
Vial# : 13
Sample Name : 71024
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\013_71024_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

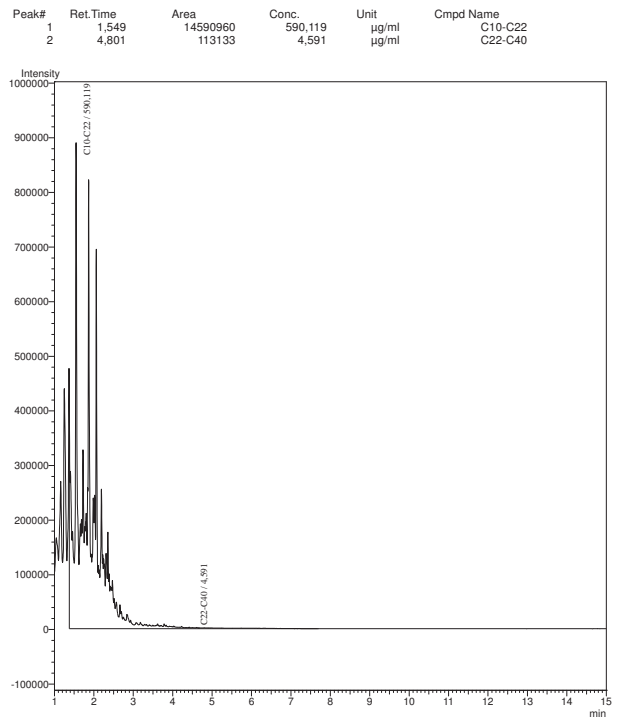
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:51:59
User Name : Admin
Vial# : 14
Sample Name : 71025
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\014_71025_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

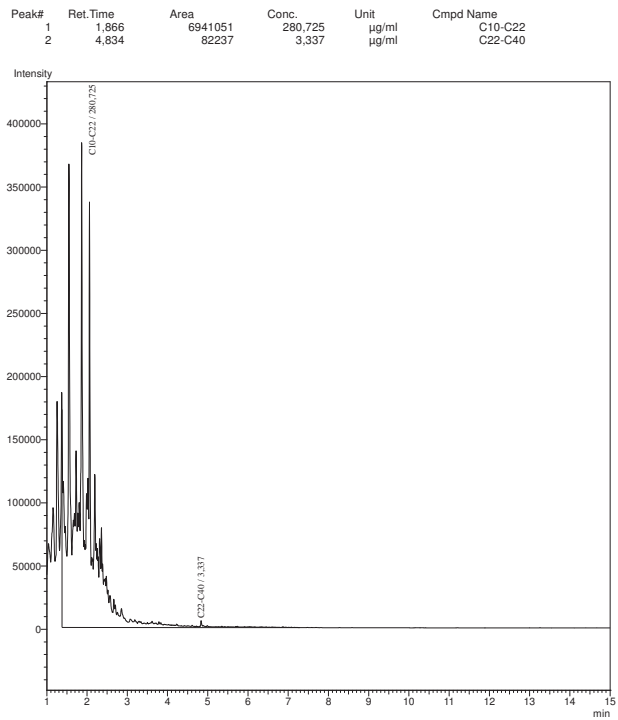
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 13:33:59
User Name : Admin
Vial# : 16
Sample Name : 71026
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\016_71026_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

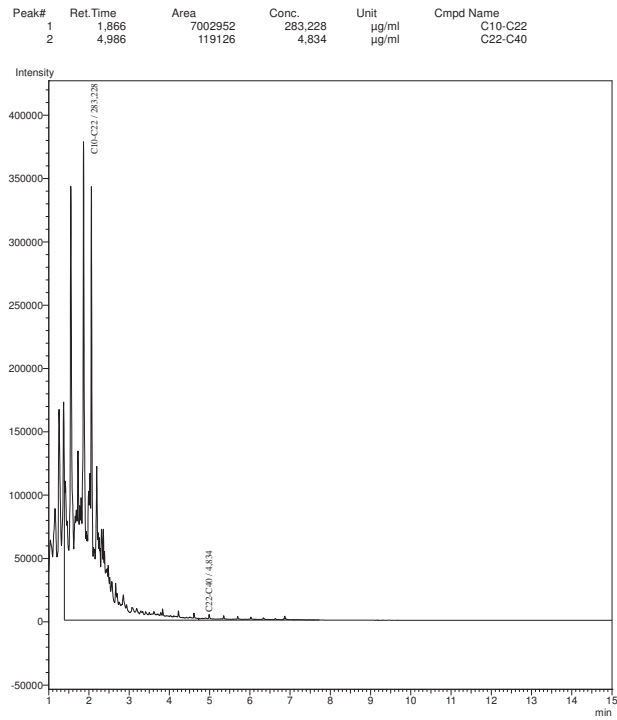
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 13:55:05
User Name : Admin
Vial# : 17
Sample Name : 71027
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\017_71027_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

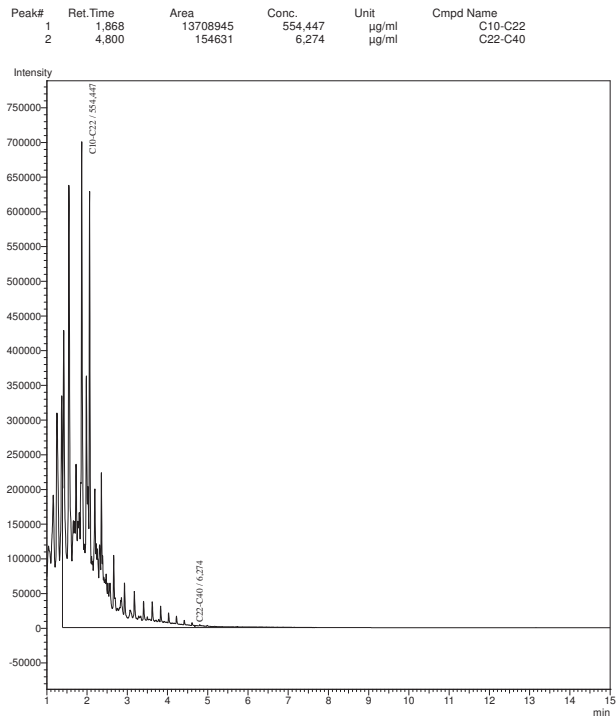
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 14:16:15
User Name : Admin
Vial# : 18
Sample Name : 71028
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\018_71028_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

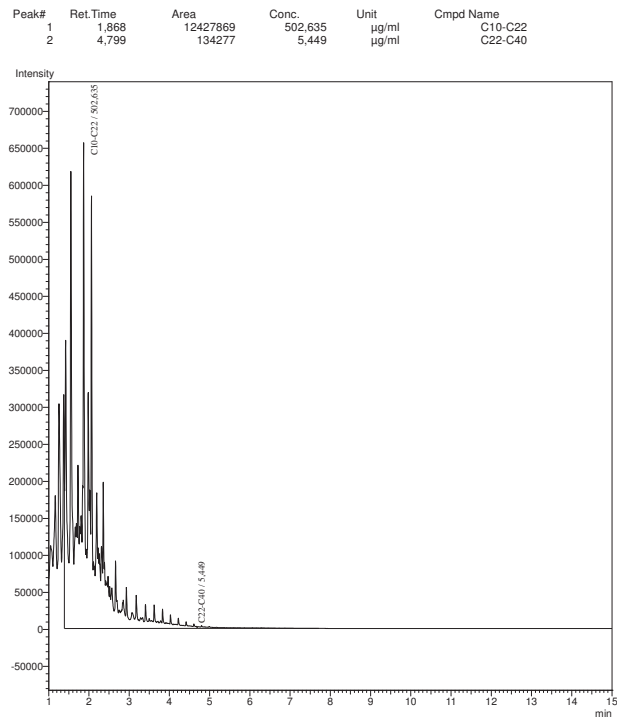
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 14:37:19
User Name : Admin
Vial# : 19
Sample Name : 71029
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\019_71029_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

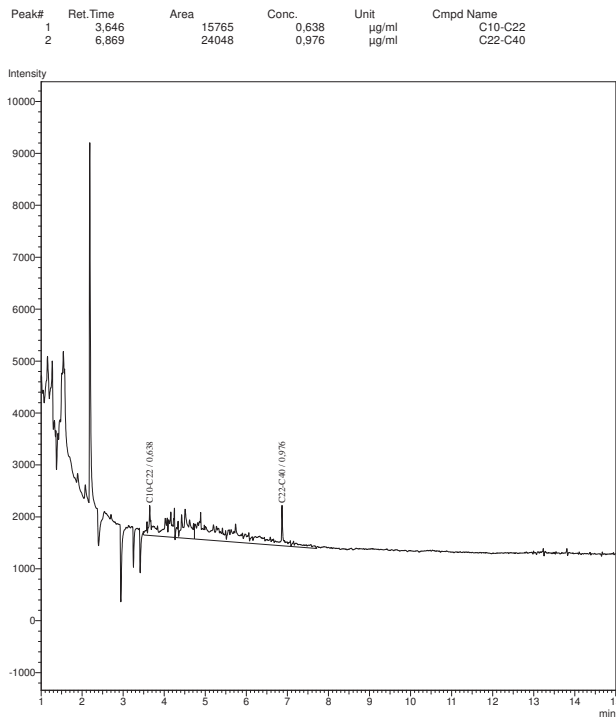
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 14:58:24
User Name : Admin
Vial# : 20
Sample Name : 71030
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\020_71030_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

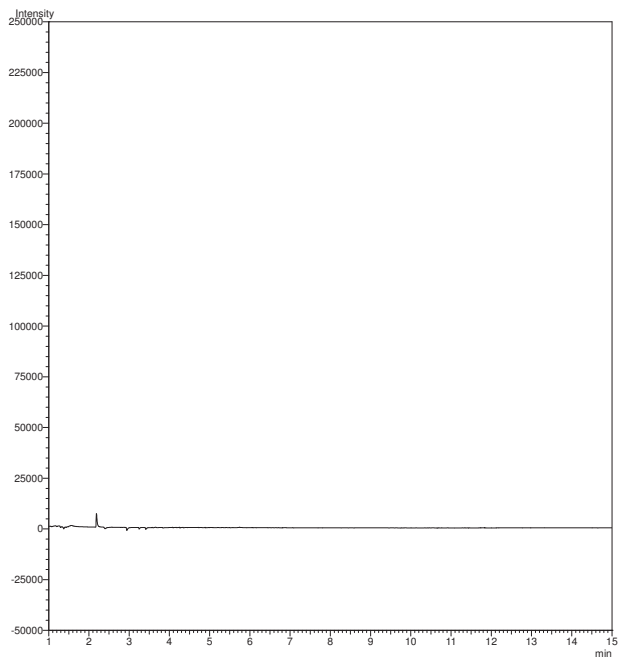
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 15:19:24
User Name : Admin
Vial# : 21
Sample Name : 71031
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\021_71031_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

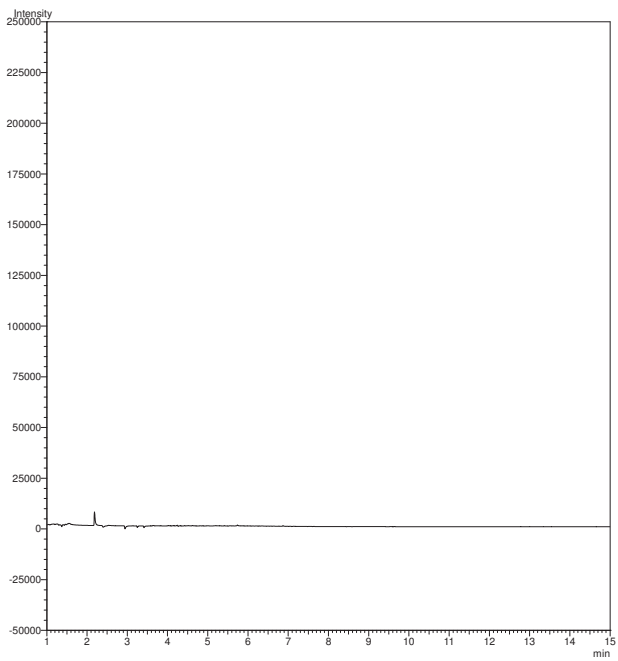
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 15:40:31
User Name : Admin
Vial# : 22
Sample Name : 71032
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\022_71032_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

Group Results - Channel 1

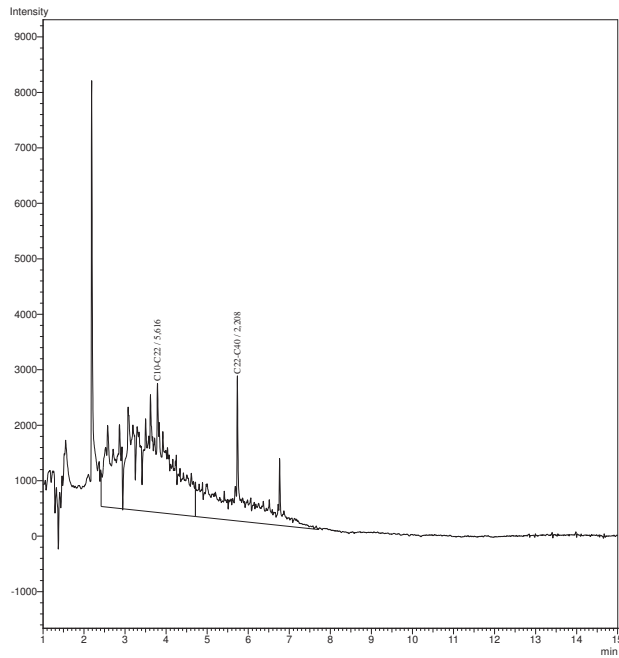


Analysis Date & Time : 12.12.2018 16:01:46
User Name : Admin
Vial# : 23
Sample Name : 71033
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\023_71033_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,789	138868	5,616	µg/ml	C10-C22
2	5,735	54406	2,208	µg/ml	C22-C40

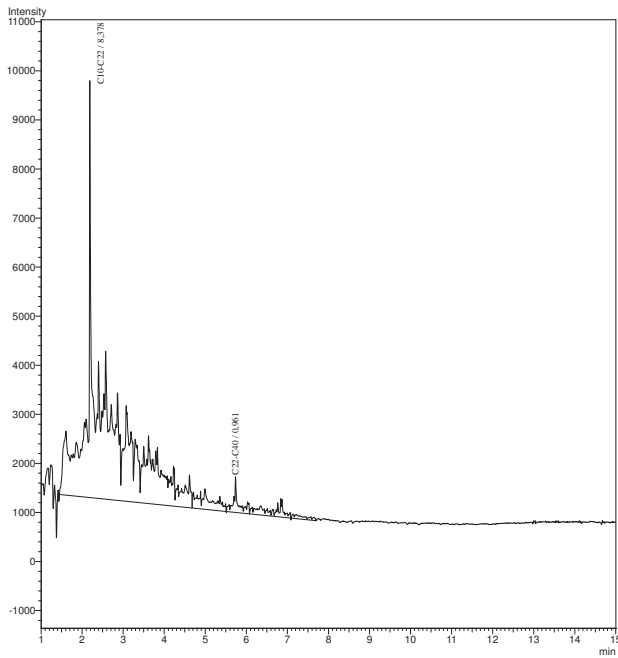


Analysis Date & Time : 12.12.2018 16:22:48
User Name : Admin
Vial# : 24
Sample Name : 71034
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\024_71034_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,186	207139	8,378	µg/ml	C10-C22
2	5,736	23679	0,961	µg/ml	C22-C40

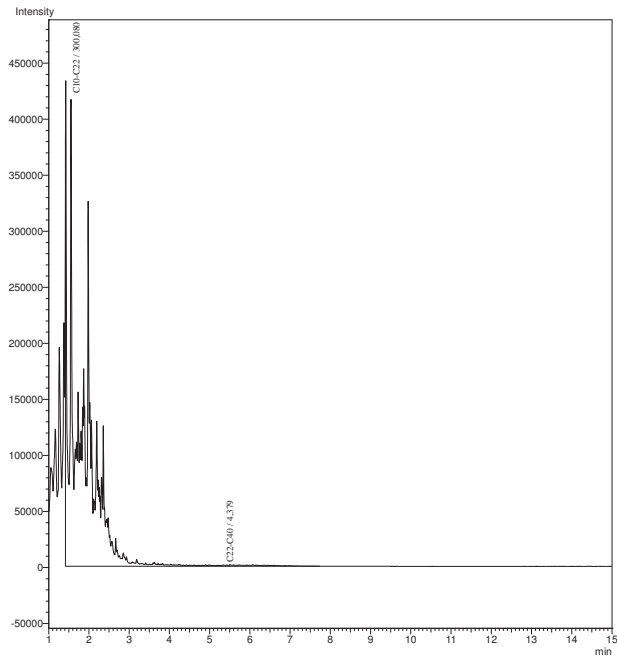


Analysis Date & Time : 12.12.2018 16:43:50
User Name : Admin
Vial# : 25
Sample Name : 71035
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181212\\025_71035_001.gcd
Method Name : \\fid\\root_d\\2018\\fid_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,424	7419616	300,080	µg/ml	C10-C22
2	5,504	107910	4,379	µg/ml	C22-C40

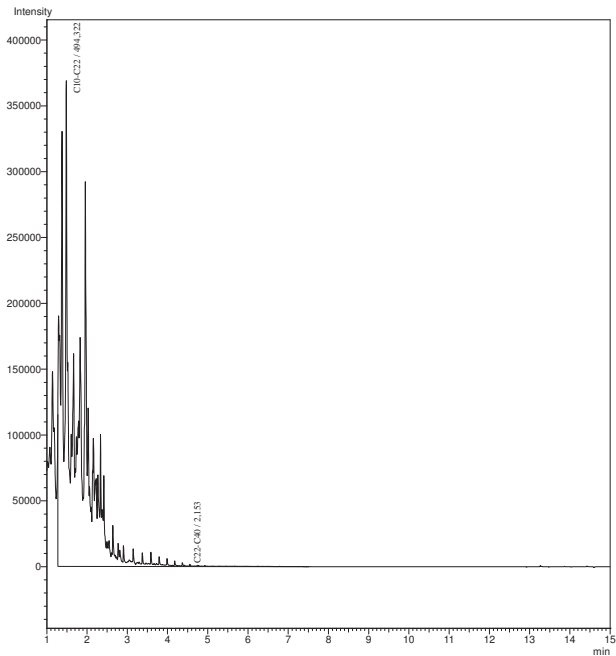


Analysis Date & Time : 12.12.2018 10:24:12
User Name : Admin
Vial# : 7
Sample Name : 71036
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\007_71036_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,484	7702089	494,322	µg/ml	C10-C22
2	4,744	34981	2,153	µg/ml	C22-C40

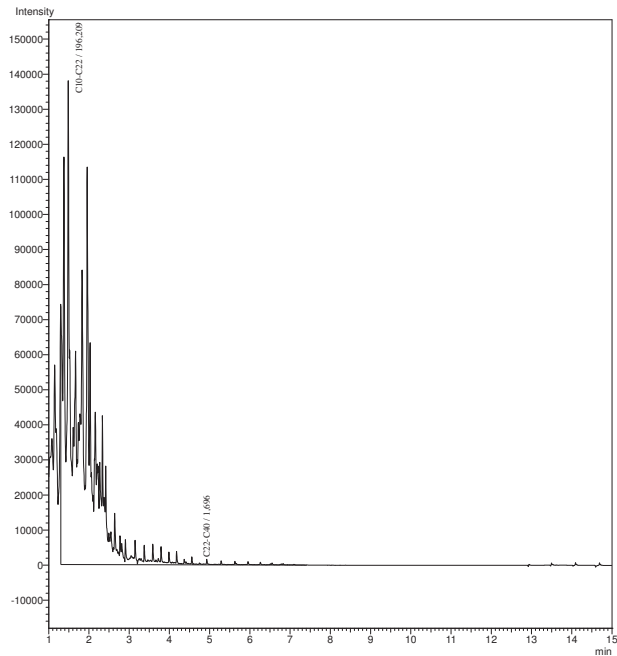


Analysis Date & Time : 12.12.2018 10:45:09
User Name : Admin
Vial# : 8
Sample Name : 71037
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\008_71037_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,486	3057151	196,209	µg/ml	C10-C22
2	4,929	27548	1,696	µg/ml	C22-C40

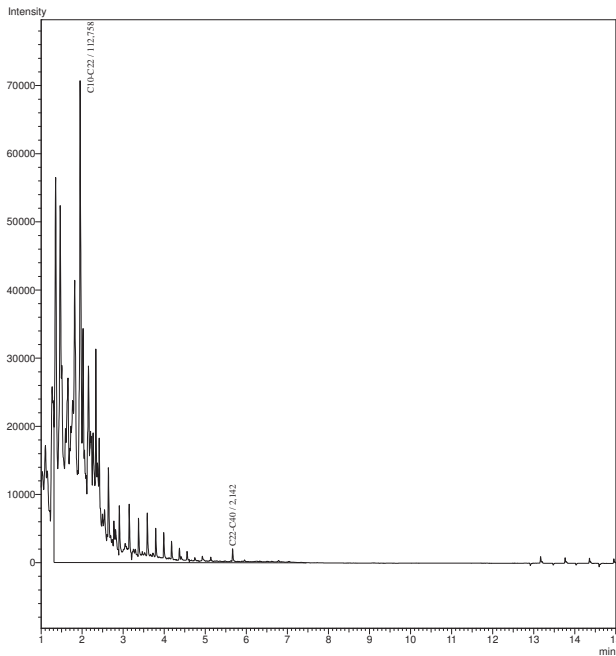


Analysis Date & Time : 12.12.2018 11:06:05
User Name : Admin
Vial# : 9
Sample Name : 71038
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\009_71038_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

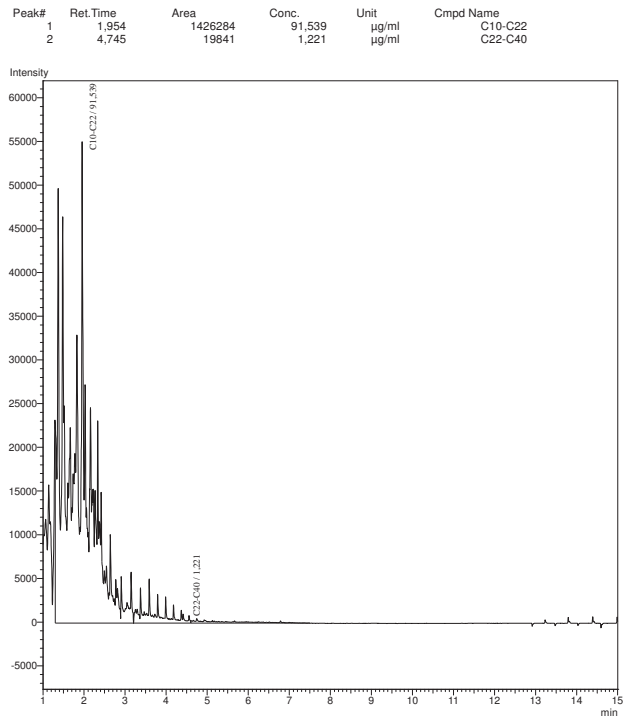
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,950	1756890	112,758	µg/ml	C10-C22
2	5,666	34796	2,142	µg/ml	C22-C40



Analysis Date & Time : 12.12.2018 11:27:02
User Name : Admin
Vial# : 10
Sample Name : 71039
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\010_71039_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

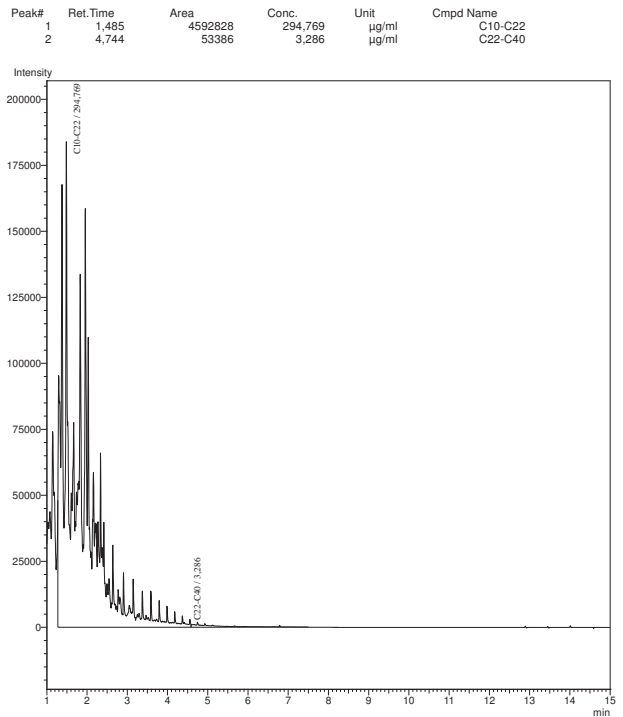
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 11:47:57
User Name : Admin
Vial# : 11
Sample Name : 71040
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\011_71040_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

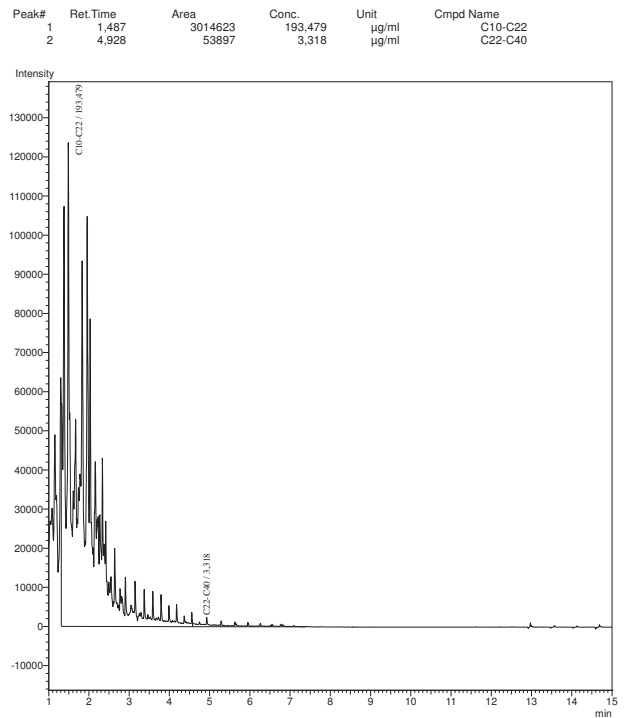
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:08:54
User Name : Admin
Vial# : 12
Sample Name : 71041
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\012_71041_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

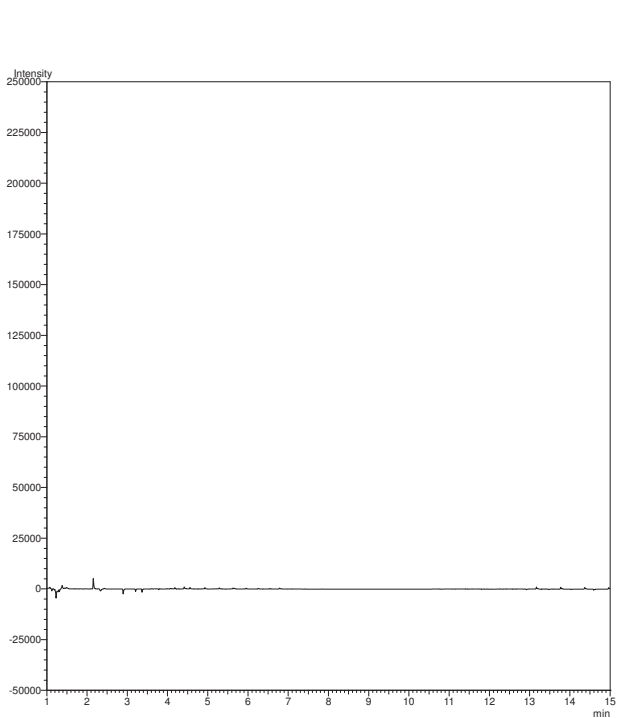
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:29:51
User Name : Admin
Vial# : 13
Sample Name : 71042
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\013_71042_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

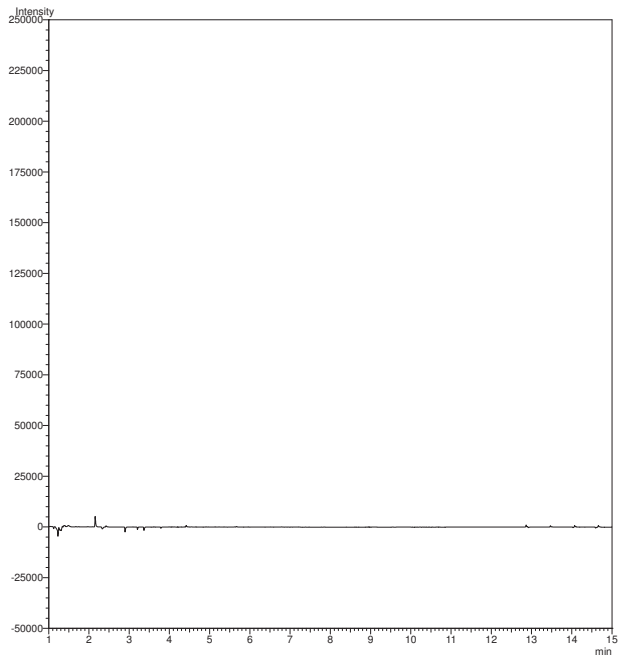
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:50:49
User Name : Admin
Vial# : 14
Sample Name : 71043
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\014_71043_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

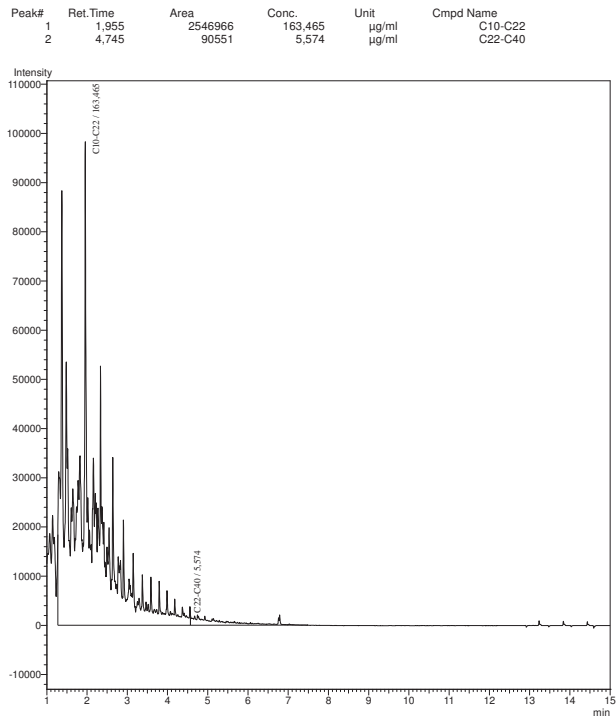
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 13:32:43
User Name : Admin
Vial# : 16
Sample Name : 71044
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\016_71044_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

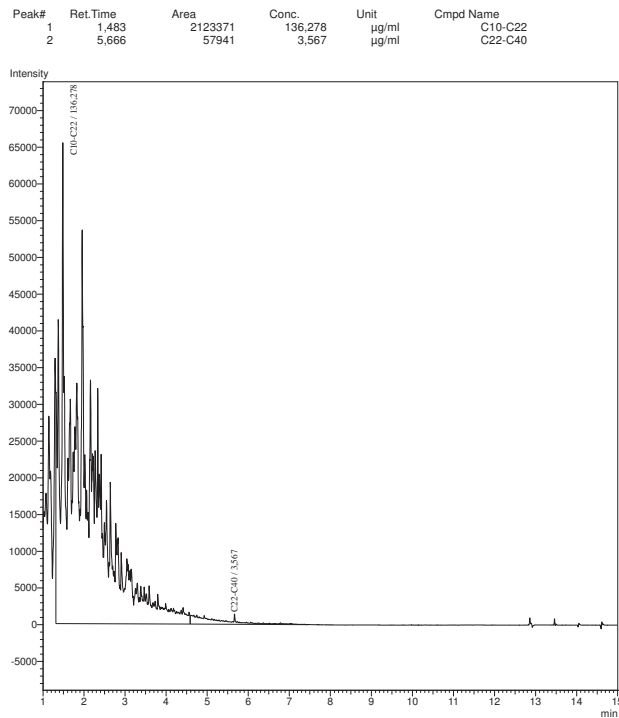
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 13:53:37
User Name : Admin
Vial# : 17
Sample Name : 71045
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\017_71045_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

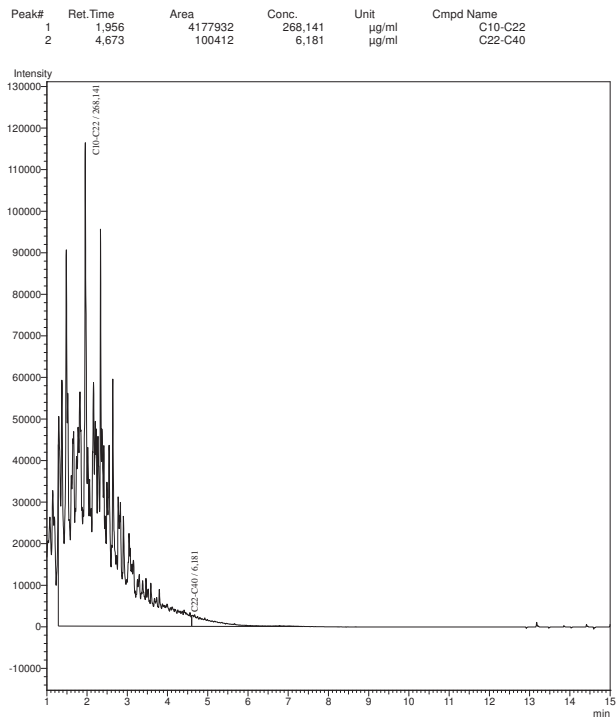
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 14:14:36
User Name : Admin
Vial# : 18
Sample Name : 71046
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\018_71046_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

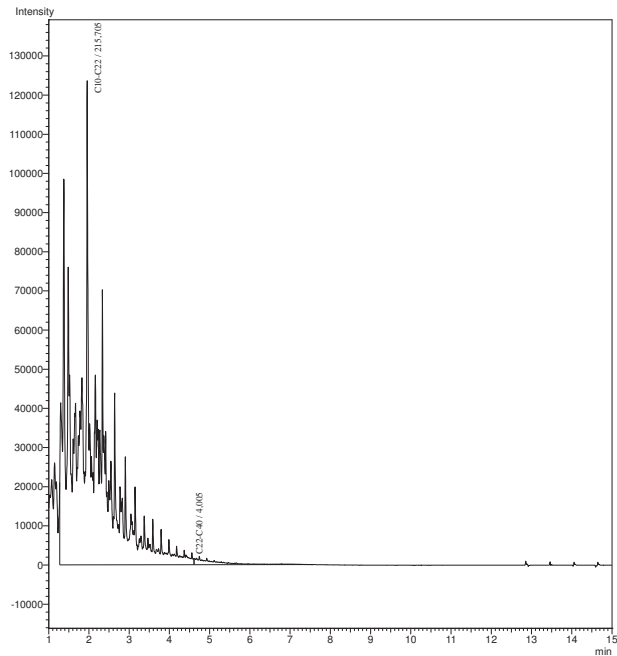


Analysis Date & Time : 12.12.2018 14:35:33
User Name : Admin
Vial# : 19
Sample Name : 71047
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\019_71047_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,956	3360927	215,705	µg/ml	C10-C22
2	4,743	65061	4,005	µg/ml	C22-C40

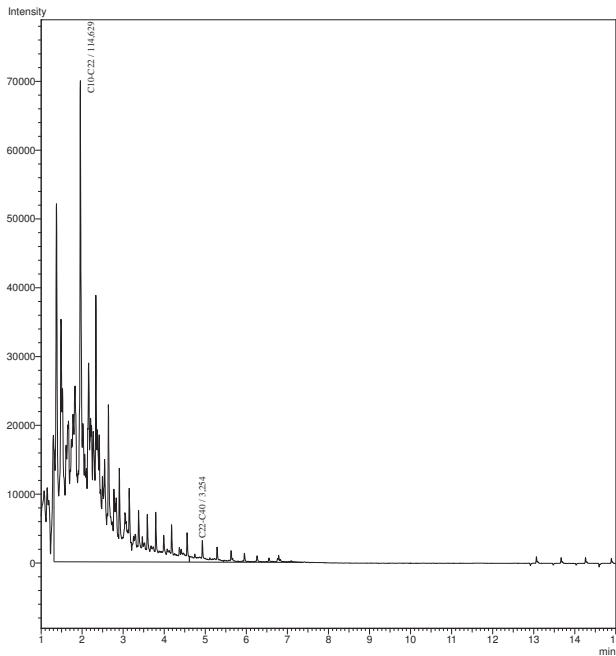


Analysis Date & Time : 12.12.2018 14:56:31
User Name : Admin
Vial# : 20
Sample Name : 71048
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\020_71048_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,955	1786043	114,629	µg/ml	C10-C22
2	4,928	52858	3,254	µg/ml	C22-C40

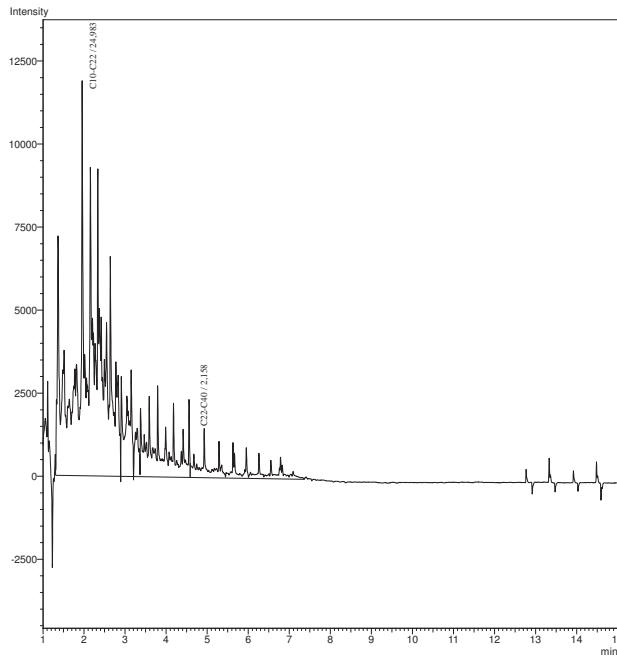


Analysis Date & Time : 12.12.2018 15:17:25
User Name : Admin
Vial# : 21
Sample Name : 71049
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\021_71049_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,954	389270	24,983	µg/ml	C10-C22
2	4,927	35064	2,158	µg/ml	C22-C40

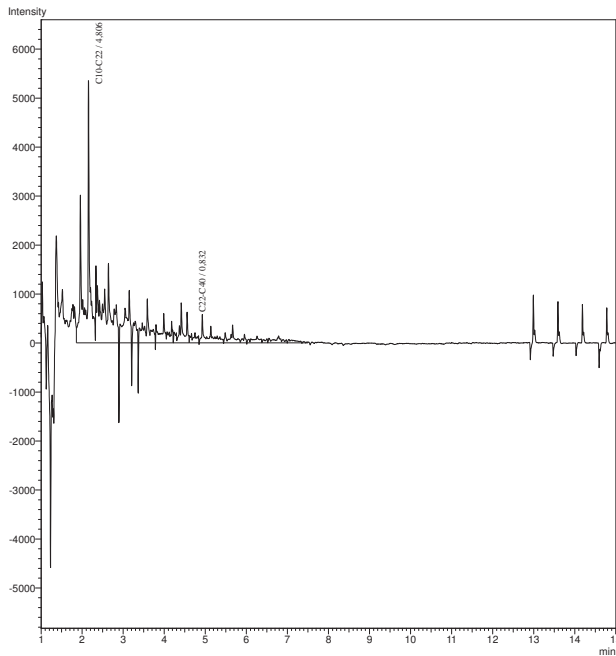


Analysis Date & Time : 12.12.2018 15:38:21
User Name : Admin
Vial# : 22
Sample Name : 71050
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\022_71050_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

Group Results - Channel 1

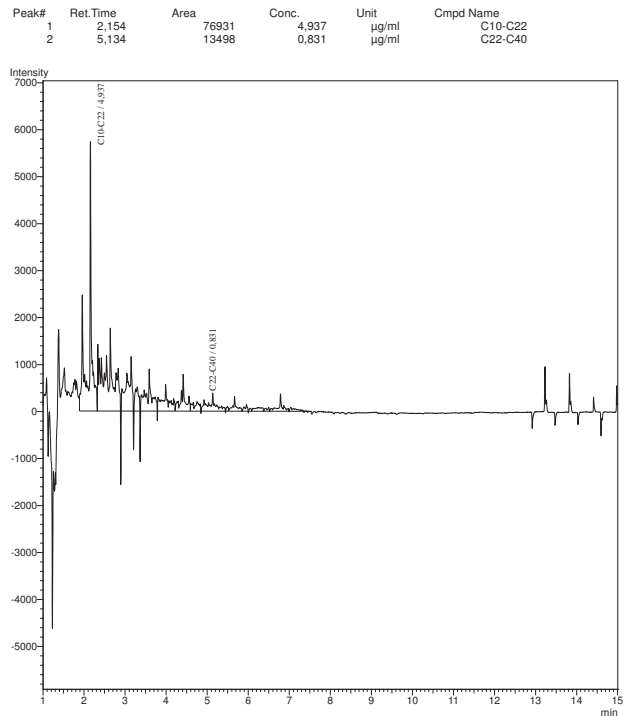
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,154	74884	4,806	µg/ml	C10-C22
2	4,927	13514	0,832	µg/ml	C22-C40



Analysis Date & Time : 12.12.2018 15:59:17
User Name : Admin
Vial# : 23
Sample Name : 71051
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\023_71051_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

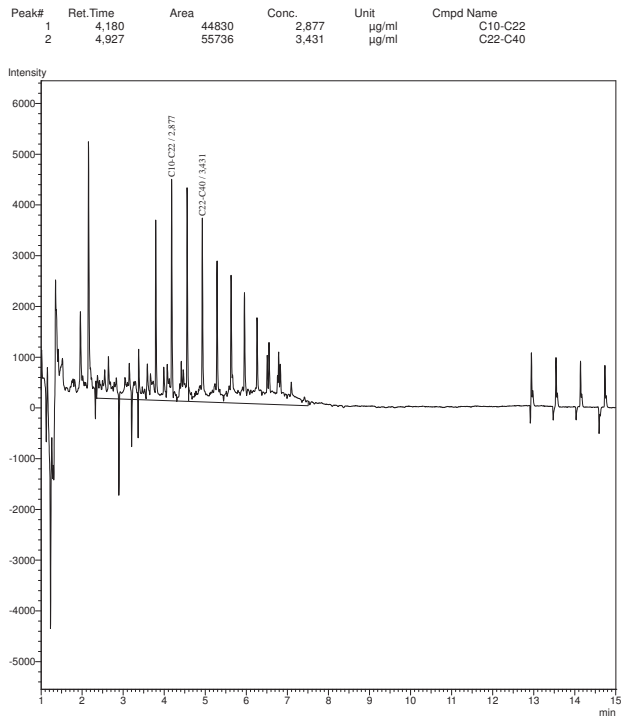
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 16:20:16
User Name : Admin
Vial# : 24
Sample Name : 71052
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\024_71052_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

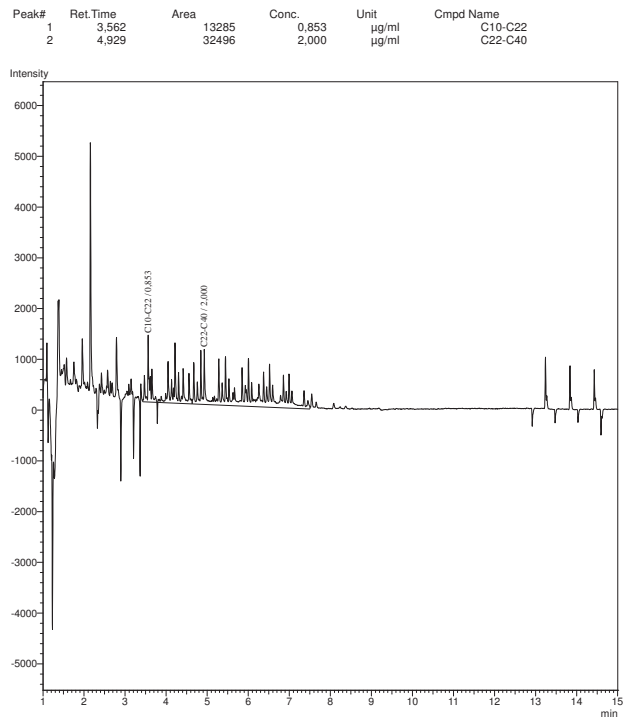
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 16:41:13
User Name : Admin
Vial# : 25
Sample Name : 71053
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181212\\025_71053_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181212\\rr_h53.gcm

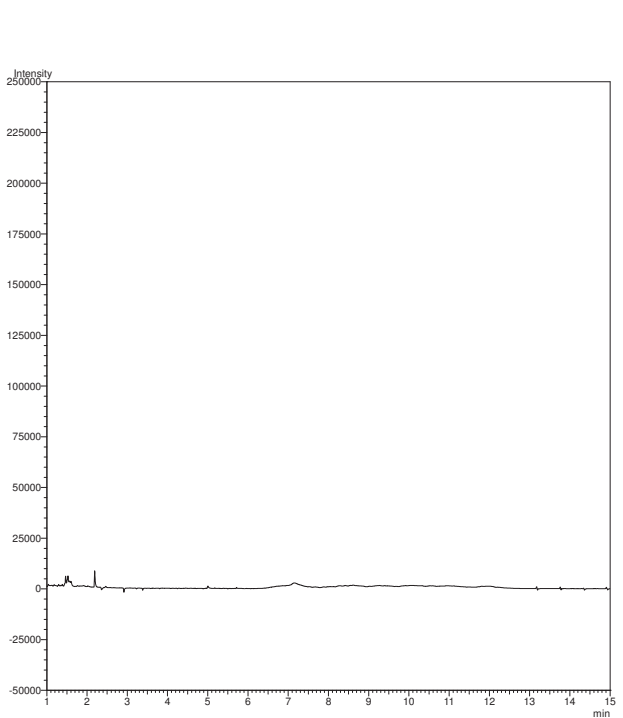
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 12:47:21
User Name : Admin
Vial# : 8
Sample Name : 71054
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181212\\008_71054_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181212\\rr_h53.gcm

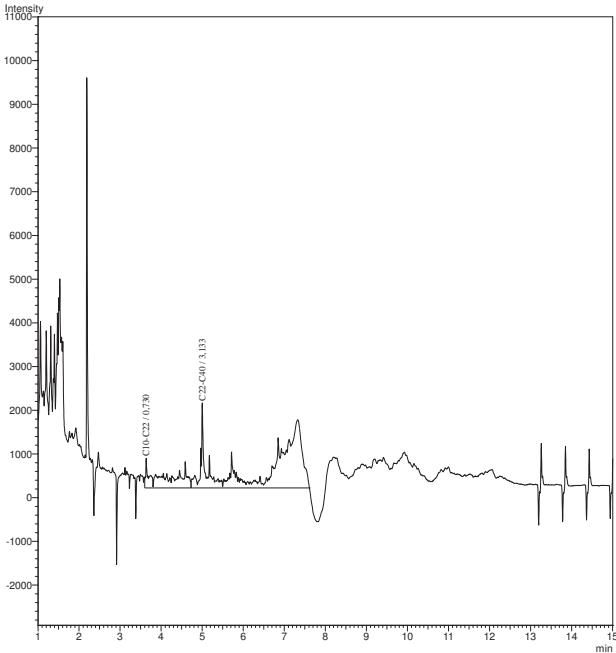
Group Results - Channel 1



Analysis Date & Time : 12.12.2018 13:08:13
User Name : Admin
Vial# : 9
Sample Name : 71055
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\F12\\root_d\\2018\\f12_181212\\009_71055_01.gcd
Method Name : \\F12\\root_d\\2018\\f12_181212\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret. Time	Area	Conc.	Unit	Cmpd Name
1	3,635	16861	0,730	µg/ml	C10-C22
2	5,001	74293	3,133	µg/ml	C22-C40



Laboratorien Dr. Döring Halferwende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33

10178 BERLIN

6. Dezember 2018

PRÜFBERICHT 03121880

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 03.12.2018
Probentransport: durch Laboratorien Dr. Döring GmbH am 03.12.2018
Probeneingang: 03.12.2018
Prüfzeitraum: 03.12.2018 – 06.12.2018
Probennummer: 69192 - 69222 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:

Analysenbefunde: Seite 2 - 4
Messverfahren: Trockenmasse DIN EN 14346
BTX DIN 38407-9
Kohlenwasserstoffe DIN EN 14039
Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

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Labornummer	69192	69193	69194	69195
Probenbezeichnung	34-1	34-4	34-5	34-9
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	91,8	85,1	80,5	83,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	99	7	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	110	9	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	0,03	< 0,01	< 0,01
Ethylbenzol	< 0,01	0,42	0,01	< 0,01
Xylol	< 0,01	1,30	0,06	< 0,01
Trimethylbenzole	< 0,01	11,5	0,36	< 0,01
Summe BTX	n.n.	13,25	0,43	n.n.

Labornummer	69196	69197	69198	69199
Probenbezeichnung	34-12	34-13	34-14	34-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	85,7	84,3	81,3	79,6
Kohlenwasserstoffe, n-C ₁₀₋₂₂	27	60	74	75
Kohlenwasserstoffe, n-C ₁₀₋₄₀	31	65	75	80
Benzol	< 0,01	< 0,01	< 0,01	0,24
Toluol	< 0,01	< 0,01	0,76	0,61
Ethylbenzol	0,1	0,09	2,16	0,98
Xylol	0,4	0,39	7,78	3,33
Trimethylbenzole	1,76	1,31	5,55	2,18
Summe BTX	2,26	1,79	16,25	7,34

Labornummer	69200	69201	69202	69203
Probenbezeichnung	34-16	34-17	35-1	35-4
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	80,5	74,5	93,6	88,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	10	< 5	< 5	7
Benzol	0,05	0,04	< 0,01	< 0,01
Toluol	0,06	0,04	< 0,01	< 0,01
Ethylbenzol	0,14	0,24	< 0,01	< 0,01
Xylol	0,32	0,51	< 0,01	< 0,01
Trimethylbenzole	0,21	0,28	< 0,01	< 0,01
Summe BTX	0,78	1,11	n.n.	n.n.

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Labornummer	69204	69205	69206	69207
Probenbezeichnung	35-6	35-9	35-13	35-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,7	81,6	94,1	90,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	8	130
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	6	16	140
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	0,46
Ethylbenzol	< 0,01	< 0,01	< 0,01	0,31
Xylol	< 0,01	< 0,01	0,02	1,24
Trimethylbenzole	< 0,01	< 0,01	0,17	0,38
Summe BTX	n.n.	n.n.	0,19	2,39

Labornummer	69208	69209	69210	69211
Probenbezeichnung	35-15	35-16	35-17	38-1
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	88,3	78,8	81,0	90,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	43	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	52	< 5	< 5	< 5
Benzol	< 0,01	0,01	< 0,01	< 0,01
Toluol	0,52	0,22	0,01	< 0,01
Ethylbenzol	0,78	0,13	0,01	< 0,01
Xylol	3,62	0,52	0,21	< 0,01
Trimethylbenzole	3,03	0,16	< 0,01	< 0,01
Summe BTX	7,95	1,04	0,23	n.n.

Labornummer	69212	69213	69214	69215
Probenbezeichnung	38-3	38-4	38-5	38-9
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	87,1	93,4	93,1	94,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	67	100	140	71
Kohlenwasserstoffe, n-C ₁₀₋₄₀	84	110	150	83
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	0,14	0,42	0,45
Xylol	< 0,01	0,72	2,33	1,20
Trimethylbenzole	< 0,01	4,98	10,7	5,54
Summe BTX	n.n.	5,84	13,45	7,19

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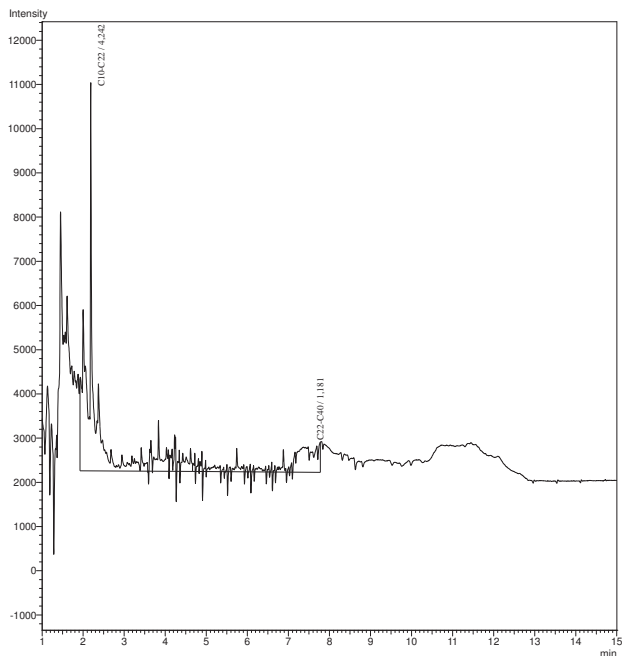
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de9529020000000024000
ust-ldnr de 170 350 601

gmbh, hrb 15929
gl dr. joachim döring
st-nr 60/120/08234
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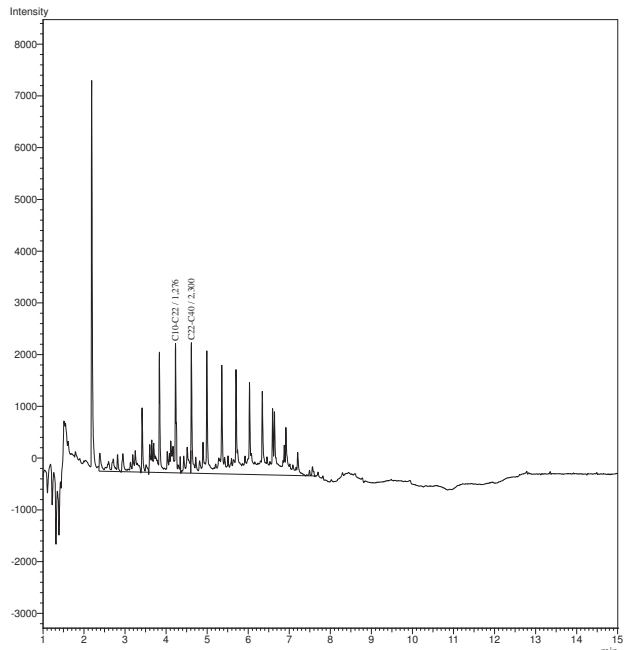


Analysis Date & Time : 04.12.2018 15:12:16
User Name : Admin
Vial# : 11
Sample Name : 69210
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181204\\011_69210_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181204\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,228	29075	1,276	µg/ml	C10-C22
2	4,614	53135	2,300	µg/ml	C22-C40

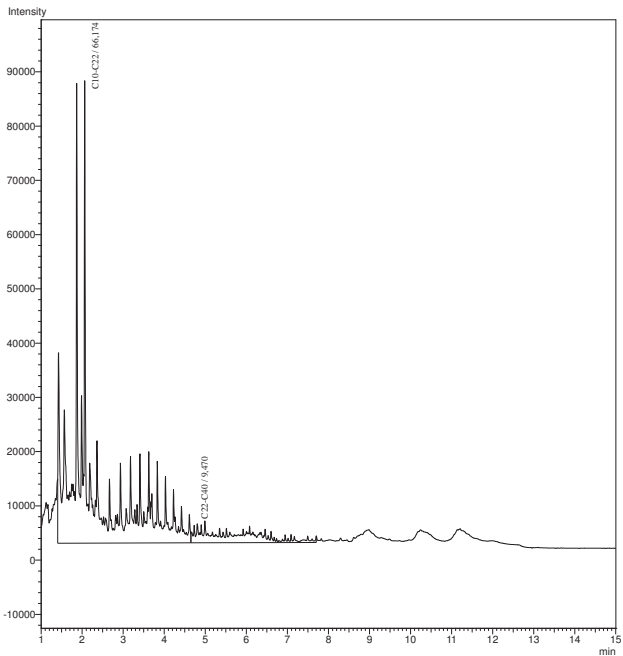


Analysis Date & Time : 04.12.2018 07:53:50
User Name : Admin
Vial# : 37
Sample Name : 69216
Sample ID : 037
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181203\\037_69216_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181203\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,062	1457066	66,174	µg/ml	C10-C22
2	4,989	207685	9,470	µg/ml	C22-C40

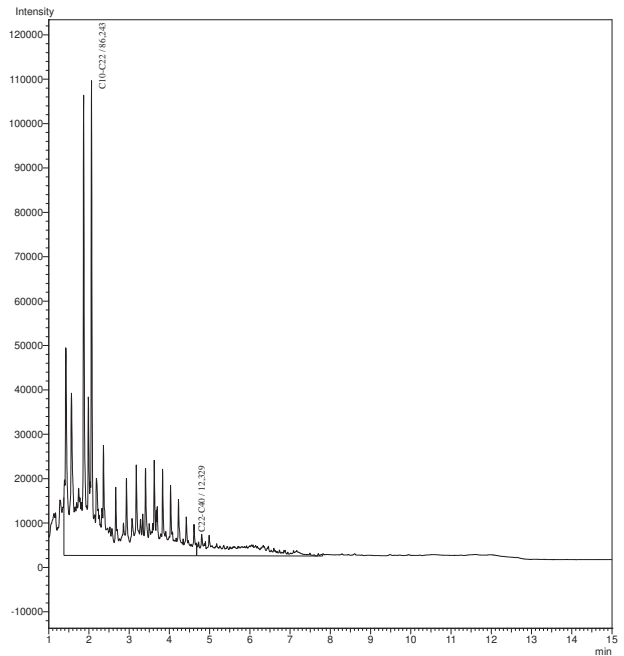


Analysis Date & Time : 04.12.2018 08:14:50
User Name : Admin
Vial# : 38
Sample Name : 69217
Sample ID : 038
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181203\\038_69217_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181203\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,063	1898955	86,243	µg/ml	C10-C22
2	4,802	270372	12,329	µg/ml	C22-C40

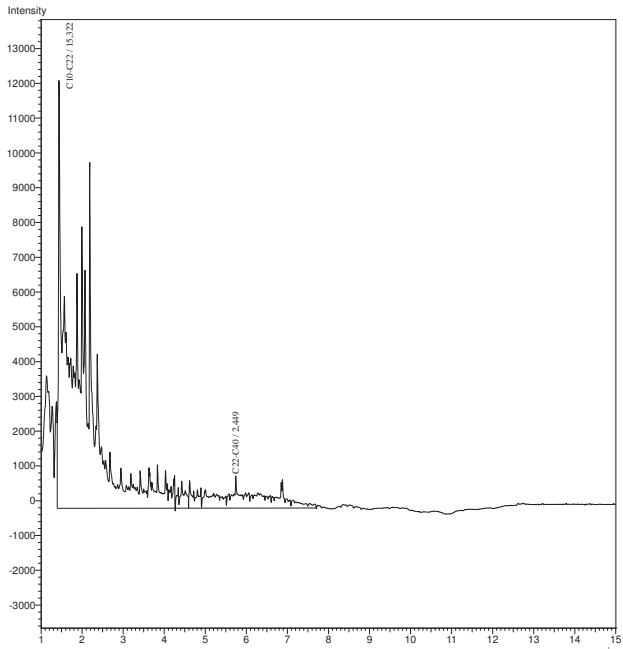


Analysis Date & Time : 04.12.2018 14:30:01
User Name : Admin
Vial# : 9
Sample Name : 69196
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181204\\009_69196_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181204\\rr_h53.gcm

Group Results - Channel 1

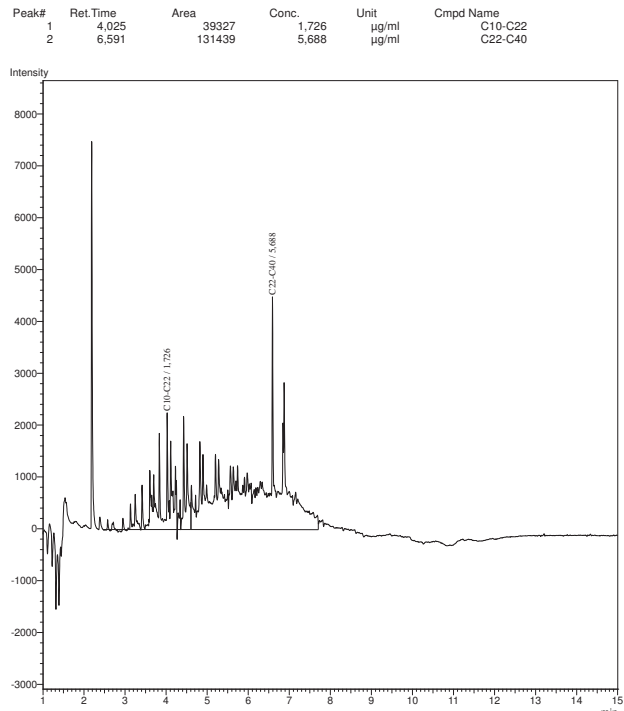
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,437	349204	15,322	µg/ml	C10-C22
2	5,743	56581	2,449	µg/ml	C22-C40



Analysis Date & Time : 04.12.2018 13:47:45
User Name : Admin
Vial# : 7
Sample Name : 69203
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181204\\007_69203_001.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181204\\rr_h53.gcm

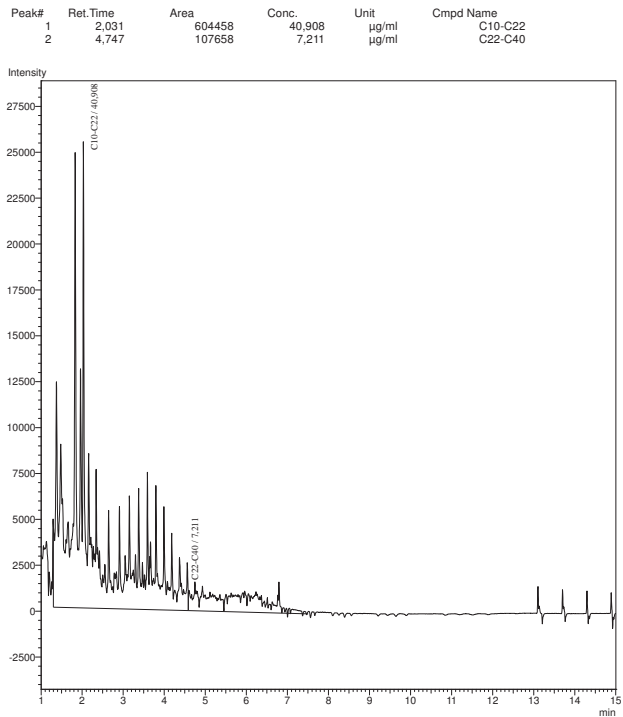
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 10:15:38
User Name : Admin
Vial# : 59
Sample Name : 69215
Sample ID : 067
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181203\\067_69215_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181203\\rr_h53.gcm

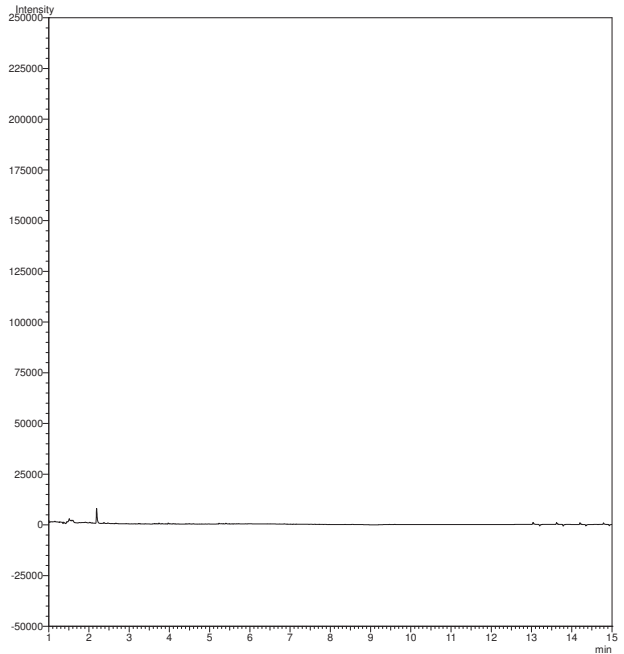
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 13:55:17
User Name : Admin
Vial# : 9
Sample Name : 69209
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181204\\009_69209_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181204\\rr_h53.gcm

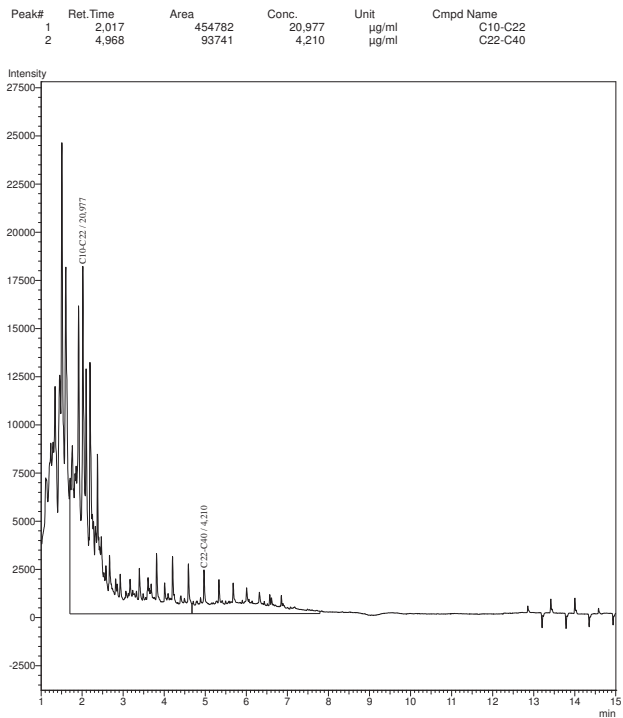
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 13:34:25
User Name : Admin
Vial# : 8
Sample Name : 69208
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181204\\008_69208_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181204\\rr_h53.gcm

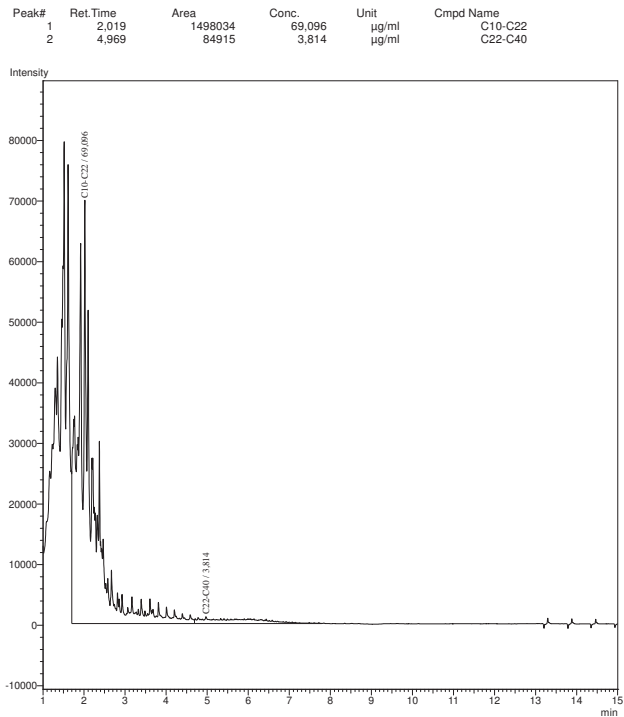
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 13:13:31
User Name : Admin
Vial# : 7
Sample Name : 69207
Sample ID : 007
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181204\007_69207_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181204\rr_h53.gcm

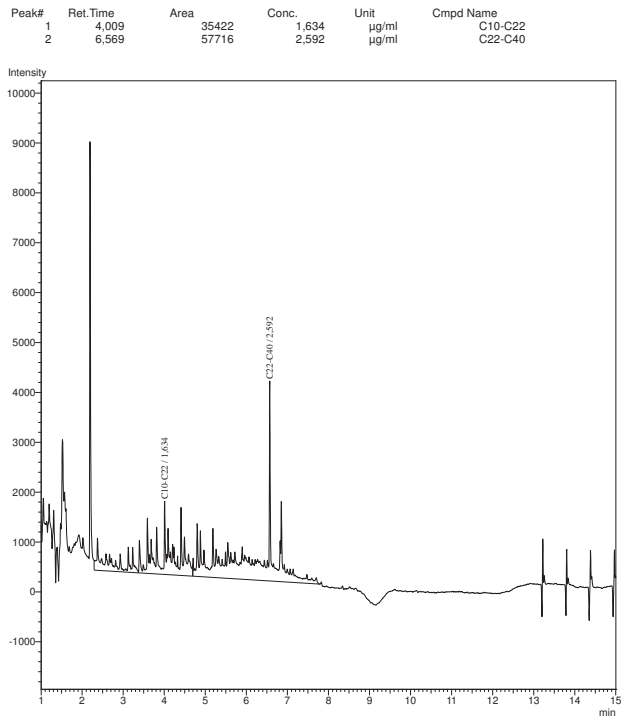
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 15:18:53
User Name : Admin
Vial# : 13
Sample Name : 69202
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181204\013_69202_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181204\rr_h53.gcm

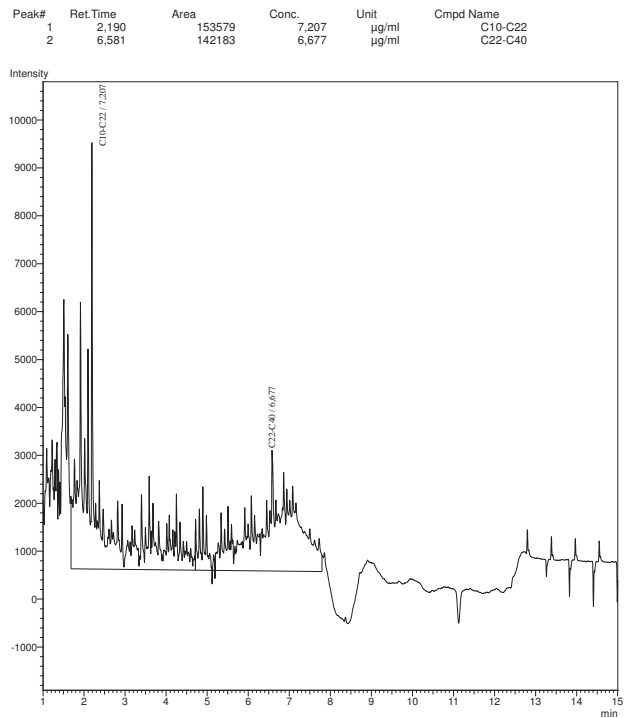
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 08:20:21
User Name : Admin
Vial# : 21
Sample Name : 69220
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181203\021_69220_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181203\rr_h53.gcm

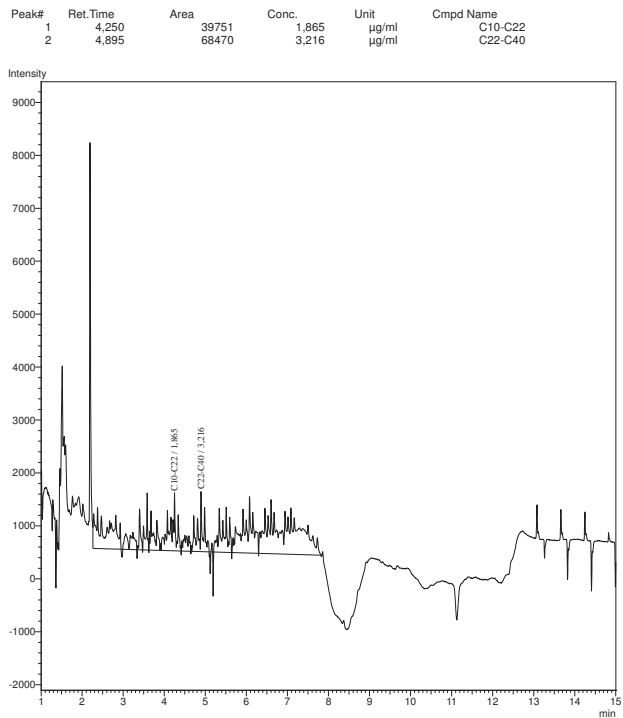
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 08:41:16
User Name : Admin
Vial# : 22
Sample Name : 69221
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181203\022_69221_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181203\rr_h53.gcm

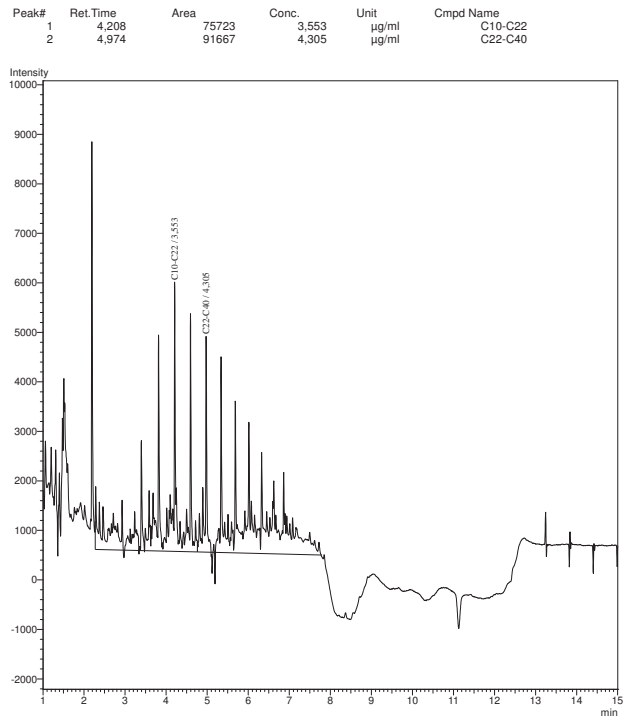
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 09:02:11
User Name : Admin
Vial# : 23
Sample Name : 69222
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181203\023_69222_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181203\rr_h53.gcm

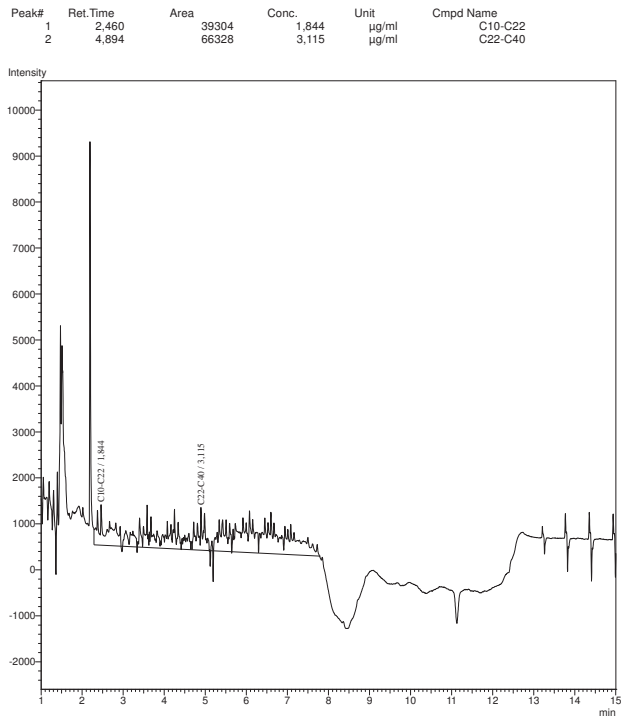
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 09:23:04
User Name : Admin
Vial# : 24
Sample Name : 69205
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181203\024_69205_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181203\rr_h53.gcm

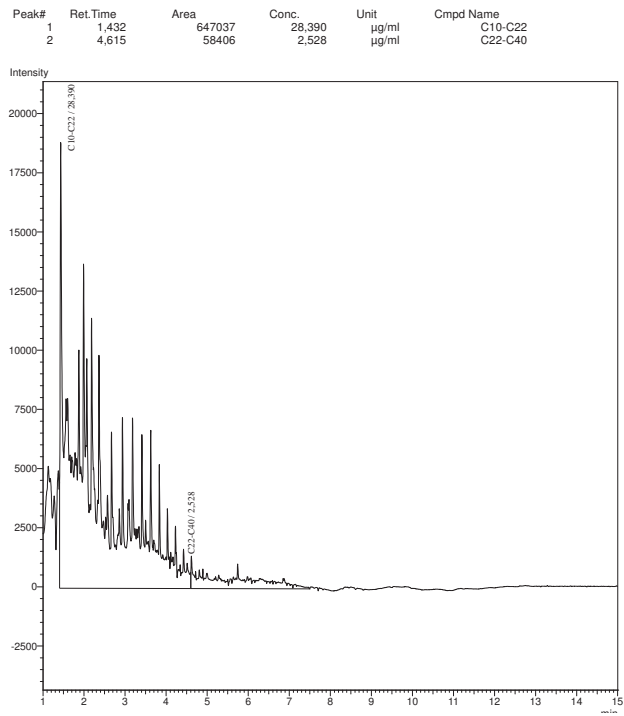
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 14:51:08
User Name : Admin
Vial# : 10
Sample Name : 69197
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\root_d\2018\fid_181204\010_69197_001.gcd
Method Name : \\FID\root_d\2018\fid_181204\rr_h53.gcm

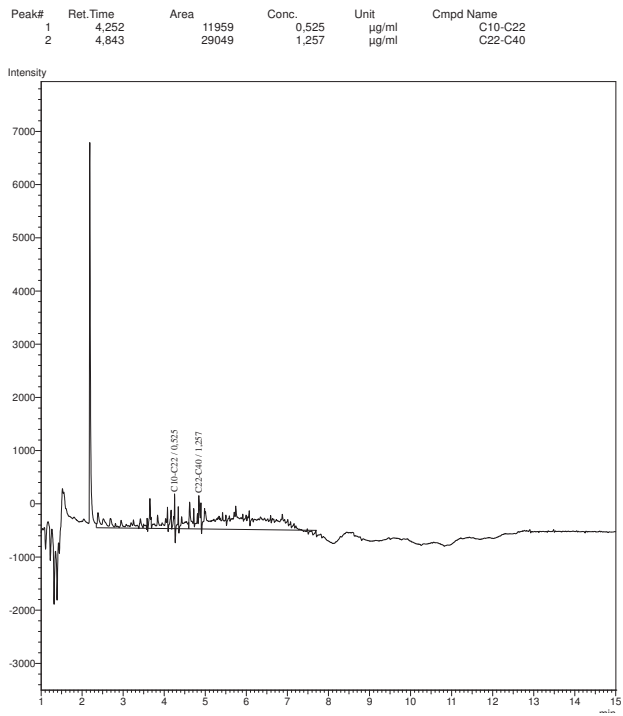
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 15:33:21
User Name : Admin
Vial# : 12
Sample Name : 69204
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\root_d\2018\fid_181204\012_69204_001.gcd
Method Name : \\FID\root_d\2018\fid_181204\rr_h53.gcm

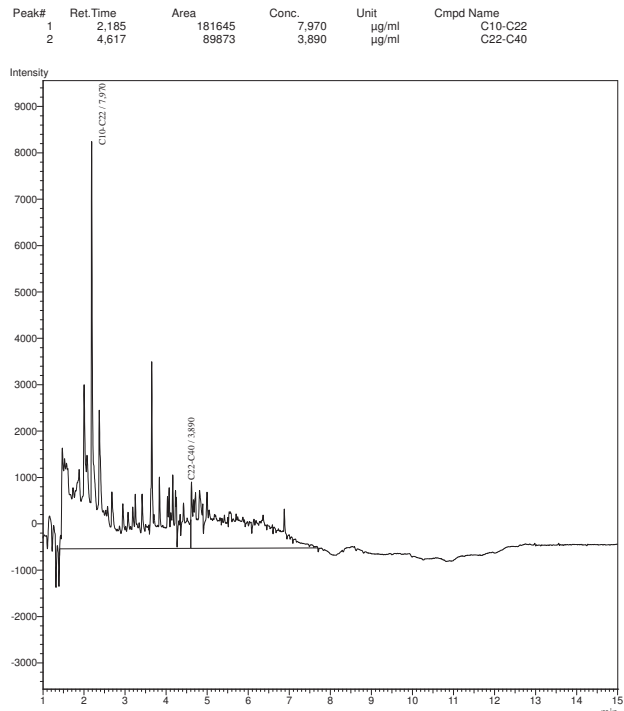
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 15:54:24
User Name : Admin
Vial# : 13
Sample Name : 69206
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181204\\013_69206_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181204\\rr_h53.gcm

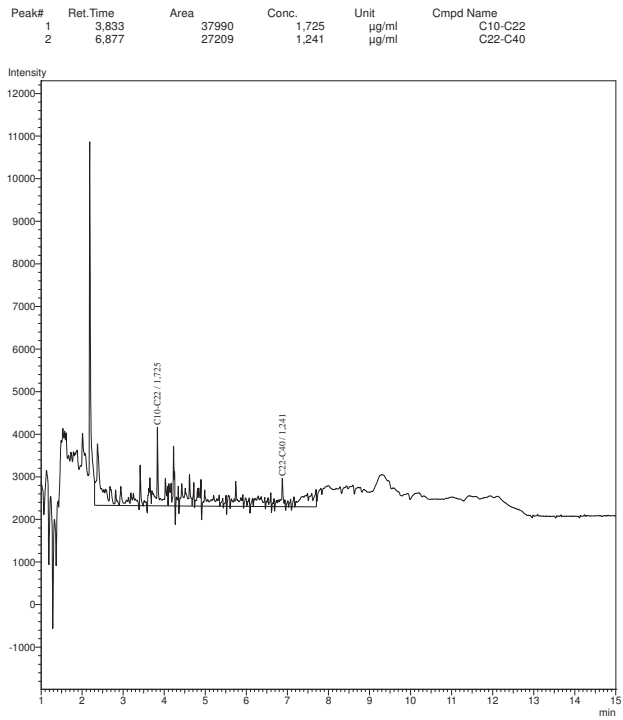
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 10:38:04
User Name : Admin
Vial# : 44
Sample Name : 69195
Sample ID : 044
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181203\\044_69195_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181203\\rr_h53.gcm

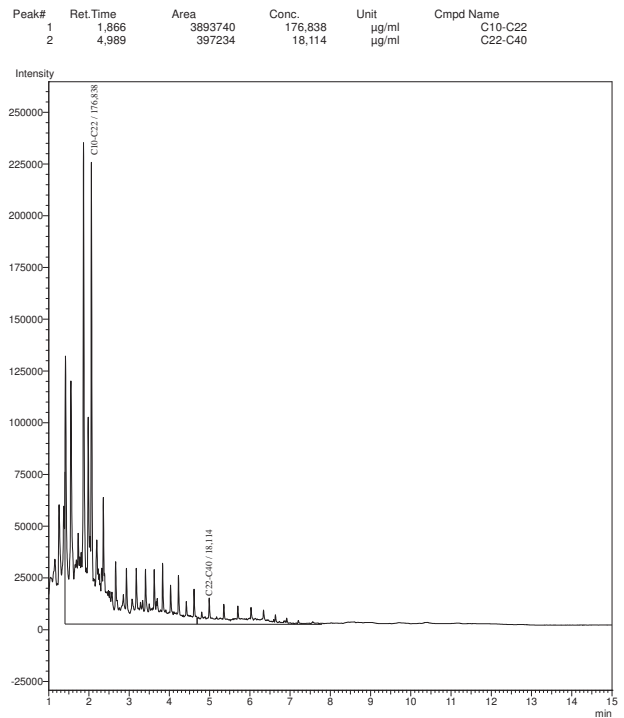
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 09:34:52
User Name : Admin
Vial# : 41
Sample Name : 69219
Sample ID : 041
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181203\\041_69219_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181203\\rr_h53.gcm

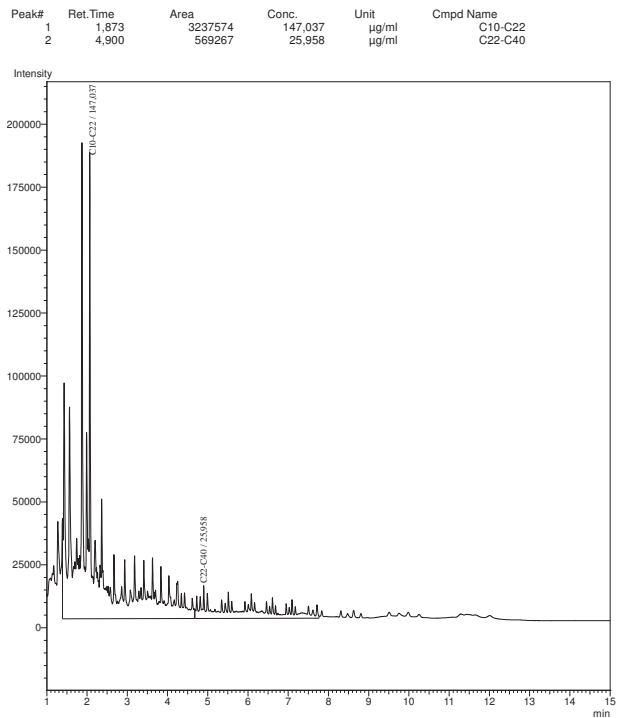
Group Results - Channel 1



Analysis Date & Time : 04.12.2018 09:13:52
User Name : Admin
Vial# : 39
Sample Name : 69218
Sample ID : 039
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181203\\039_69218_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181203\\rr_h53.gcm

Group Results - Channel 1

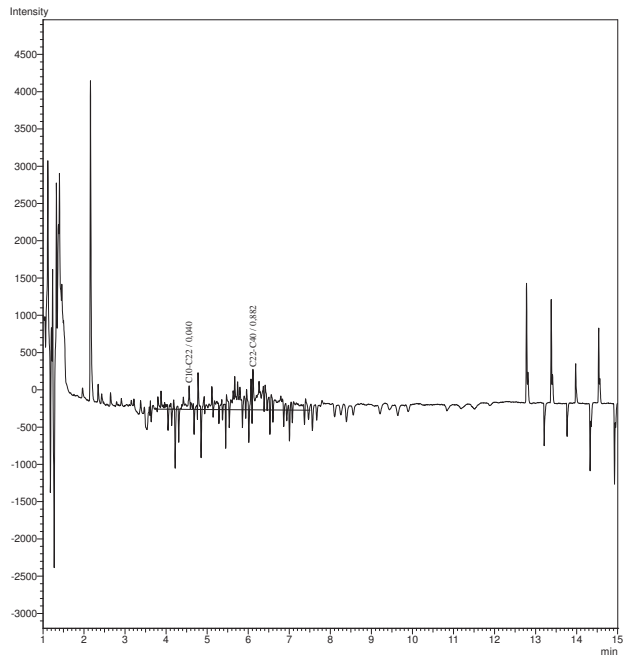


Analysis Date & Time : 04.12.2018 08:51:44
User Name : Admin
Vial# : 55
Sample Name : 69211
Sample ID : 062
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181203\062_69211_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181203\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,560	596	0,040	µg/ml	C10-C22
2	6,115	13164	0,882	µg/ml	C22-C40

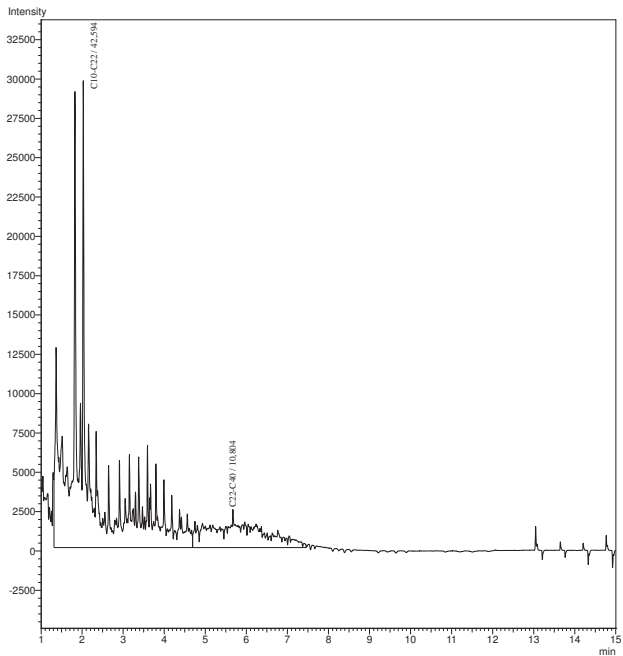


Analysis Date & Time : 04.12.2018 09:12:43
User Name : Admin
Vial# : 56
Sample Name : 69212
Sample ID : 063
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181203\063_69212_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181203\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,027	629375	42,594	µg/ml	C10-C22
2	5,673	161306	10,804	µg/ml	C22-C40

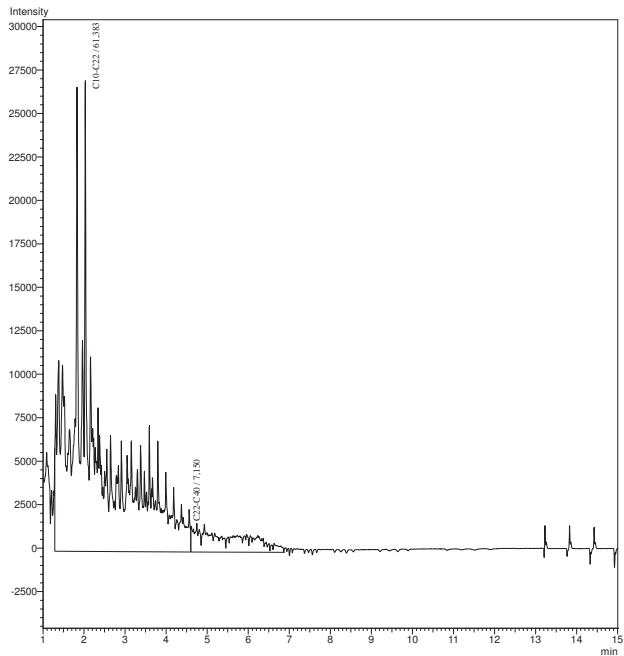


Analysis Date & Time : 04.12.2018 09:33:39
User Name : Admin
Vial# : 57
Sample Name : 69213
Sample ID : 064
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181203\064_69213_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181203\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,030	907001	61,383	µg/ml	C10-C22
2	4,747	106749	7,150	µg/ml	C22-C40

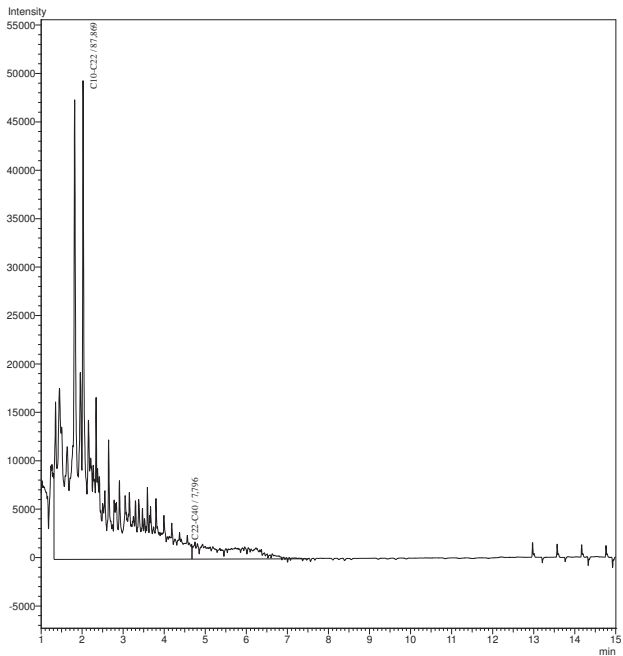


Analysis Date & Time : 04.12.2018 09:54:40
User Name : Admin
Vial# : 58
Sample Name : 69214
Sample ID : 066
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181203\066_69214_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181203\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,022	1298362	87,869	µg/ml	C10-C22
2	4,748	116398	7,796	µg/ml	C22-C40

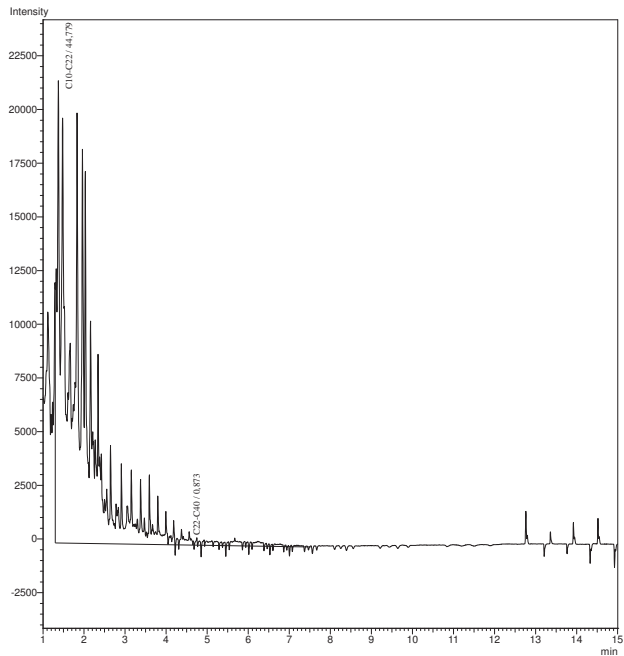


Analysis Date & Time : 04.12.2018 10:36:35
User Name : Admin
Vial# : 60
Sample Name : 69198
Sample ID : 068
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181203\068_69198_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181203\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,374	661663	44,779	µg/ml	C10-C22
2	4,747	13036	0,873	µg/ml	C22-C40

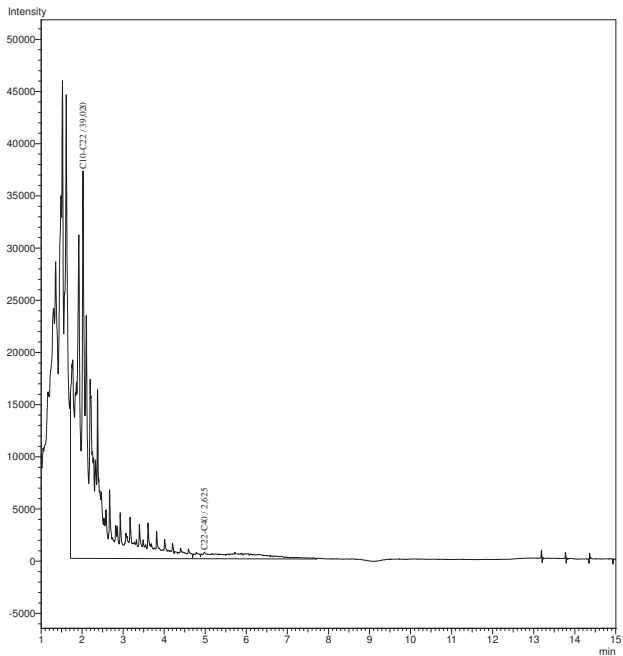


Analysis Date & Time : 04.12.2018 14:16:11
User Name : Admin
Vial# : 10
Sample Name : 69199
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181204\010_69199_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181204\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,021	845978	39,020	µg/ml	C10-C22
2	4,979	58452	2,625	µg/ml	C22-C40

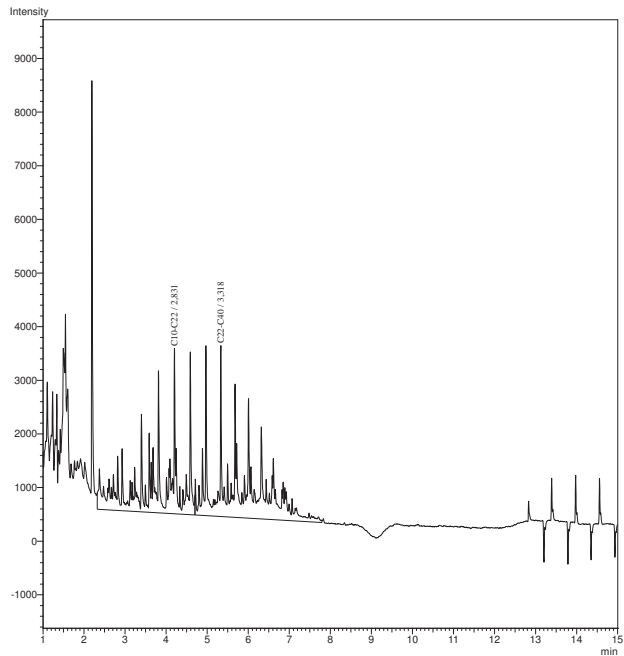


Analysis Date & Time : 04.12.2018 14:37:05
User Name : Admin
Vial# : 11
Sample Name : 69200
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181204\011_69200_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181204\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,202	61379	2,831	µg/ml	C10-C22
2	5,332	73872	3,318	µg/ml	C22-C40

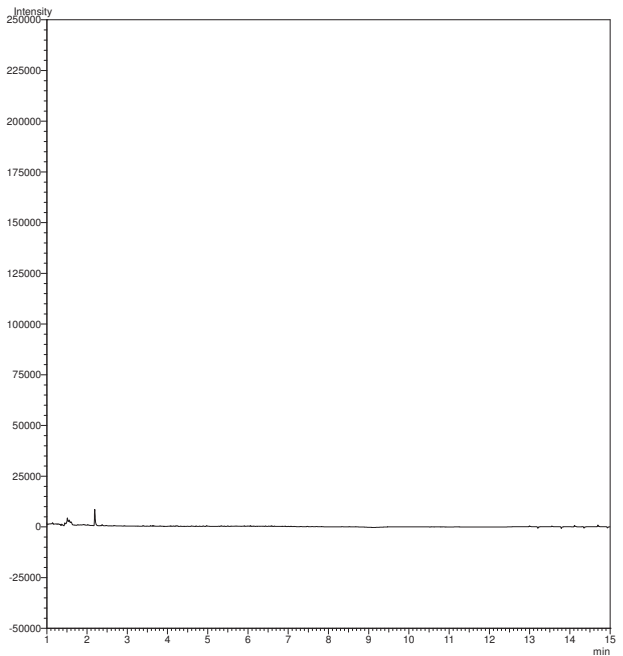


Analysis Date & Time : 04.12.2018 14:57:58
User Name : Admin
Vial# : 12
Sample Name : 69201
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi2\root_d\2018\fi2_181204\012_69201_01.gcd
Method Name : \\fi2\root_d\2018\fi2_181204\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
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Laboratorien Dr. Döring Halenwende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33

10178 BERLIN

3. Dezember 2018

PRÜFBERICHT 30111885

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 29./30.11.2018
Probentransport: durch Laboratorien Dr. Döring GmbH am 30.11.2018
Probeneingang: 30.11.2018
Prüfzeitraum: 30.11.2018 – 03.12.2018
Probennummer: 68807 - 68829 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:

Analysenbefunde: Seite 2 - 3
Messverfahren: Trockenmasse DIN EN 14346
BTX DIN 38407-9
Kohlenwasserstoffe DIN EN 14039

Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

Prüfbericht 30111885.doc

Seite 1 von 3

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gr dr. joachim döring
st-nr 60120/06234
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Labornummer	68807	68808	68809	68810
Probenbezeichnung	36-1	36-2	36-4	36-5
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,2	90,1	92,9	94,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	22	36	140
Kohlenwasserstoffe, n-C ₁₀₋₄₀	23	27	44	150
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,09	< 0,01	< 0,01	< 0,01
Xylole	0,39	< 0,01	0,01	0,04
Trimethylbenzole	0,13	< 0,01	0,16	0,12
Summe BTX	0,61	n.n.	0,17	0,16

Labornummer	68811	68812	68813	68814
Probenbezeichnung	36-6	36-7	36-9	36-10
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,6	96,3	95,6	94,3
Kohlenwasserstoffe, n-C ₁₀₋₂₂	260	21	32	16
Kohlenwasserstoffe, n-C ₁₀₋₄₀	270	25	37	20
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,88	0,04	0,11	0,03
Xylole	4,1	0,23	0,6	0,19
Trimethylbenzole	13	0,74	1,0	0,39
Summe BTX	17,98	1,01	1,71	0,61

Labornummer	68815	68816	68817	68818
Probenbezeichnung	36-11	36-12	36-13	36-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	92,0	90,2	94,4	92,7
Kohlenwasserstoffe, n-C ₁₀₋₂₂	270	240	28	79
Kohlenwasserstoffe, n-C ₁₀₋₄₀	290	250	36	88
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	0,31	0,92	0,09	0,49
Ethylbenzol	38	5,2	0,46	1,7
Xylole	22	27	2,2	7,9
Trimethylbenzole	27	22	2,1	7,4
Summe BTX	87,31	55,12	4,85	17,49

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halenwende 12
28357 bremen
fon 04 21 - 2 07 22 75
fax 04 21 - 27 55 22

im schedetal 11
34346 hann. münden
fon 05 54 1 - 9 83 40
fax 05 54 1 - 98 34 55

ireboldstraße 16
30455 hannover
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swift neede22
de95290200000000024000
ust-icdr de 170 350 601

gmbh, hrb 15929
gr dr. joachim döring
st-nr 60120/06234
www.dr-doering.com

Labornummer	68819	68820	68821	68822
Probenbezeichnung	36-15	36-16	36-17	37-1
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	88,5	80,6	80,3	94,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	2.600	47	22	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	2.700	50	26	< 5
Benzol	0,5	< 0,01	< 0,01	< 0,01
Toluol	170	1,3	0,72	< 0,01
Ethylbenzol	140	1,4	0,61	< 0,01
Xylole	600	6,2	2,8	0,01
Trimethylbenzole	330	3,2	1,4	< 0,01
Summe BTX	1.240,5	12,1	5,53	0,01

Labornummer	68823	68824	68825	68826
Probenbezeichnung	37-4	37-10	37-13	37-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,3	95,6	94,5	93,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	56	32
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	63	34
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	0,83
Xylole	< 0,01	< 0,01	0,03	3,8
Trimethylbenzole	< 0,01	< 0,01	0,09	16
Summe BTX	n.n.	n.n.	0,12	20,63

Labornummer	68827	68828	68829	
Probenbezeichnung	37-15	37-16	37-17	
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	
Trockenmasse [%]	89,3	79,2	84,0	
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	11	84	
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	14	91	
Benzol	< 0,01	< 0,01	< 0,01	
Toluol	0,27	0,02	< 0,01	
Ethylbenzol	1,1	0,03	< 0,01	
Xylole	4,8	0,17	0,02	
Trimethylbenzole	6,9	0,08	< 0,01	
Summe BTX	13,07	0,30	0,02	

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ust-icdr de 170 350 601

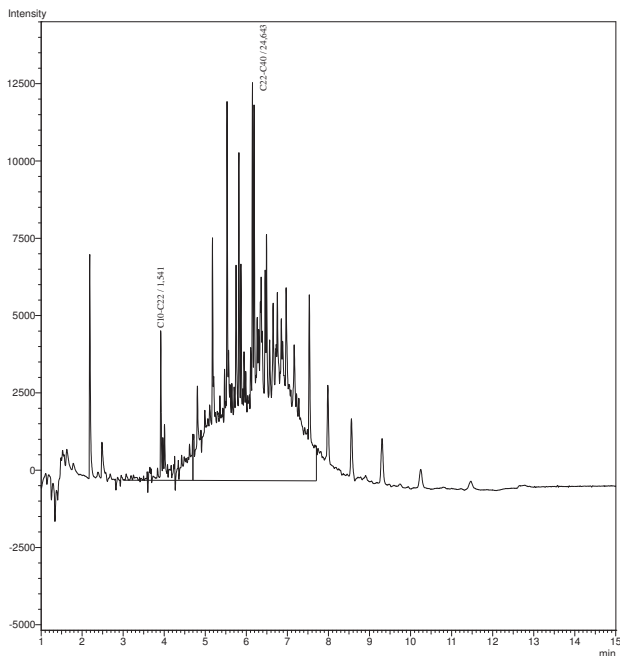
gmbh, hrb 15929
gr dr. joachim döring
st-nr 60120/06234
www.dr-doering.com

Analysis Date & Time : 01.12.2018 01:55:18
User Name : Admin
Vial# : 48
Sample Name : 68807
Sample ID : 048
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\048_68807_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

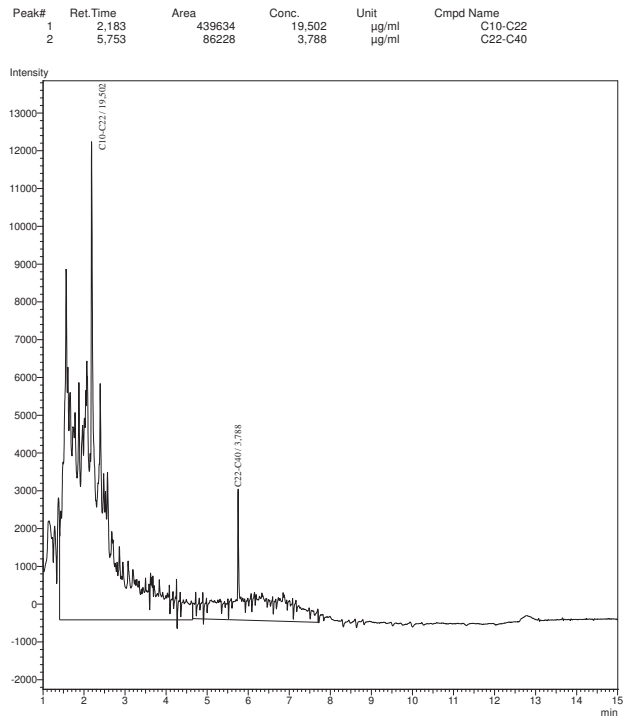
Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,915	34739	1,541	µg/ml	C10-C22
2	6,148	560913	24,643	µg/ml	C22-C40



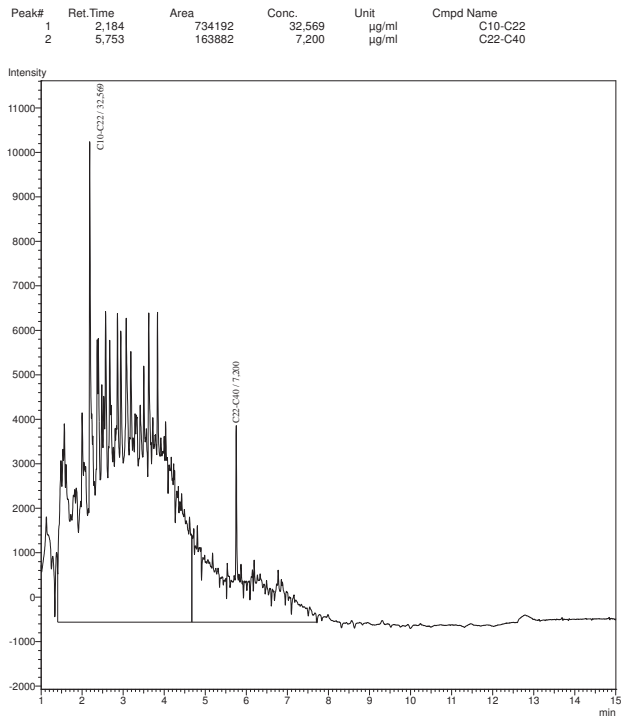
Analysis Date & Time : 01.12.2018 02:16:19
User Name : Admin
Vial# : 49
Sample Name : 68808
Sample ID : 049
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181130\\049_68808_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1



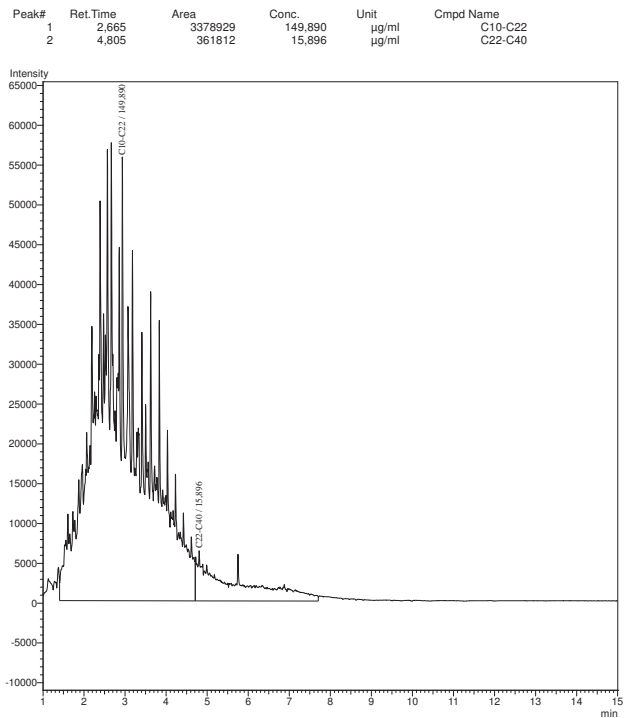
Analysis Date & Time : 01.12.2018 02:37:19
User Name : Admin
Vial# : 50
Sample Name : 68809
Sample ID : 050
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181130\\050_68809_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1



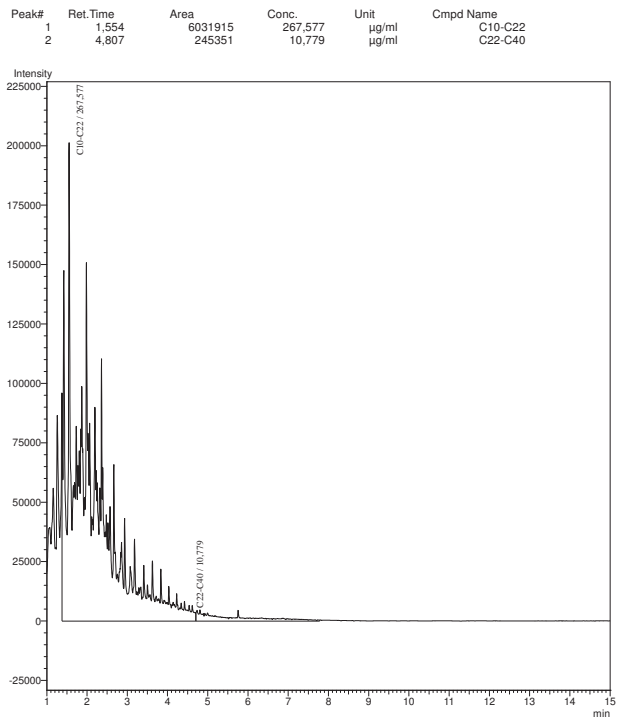
Analysis Date & Time : 01.12.2018 04:22:24
User Name : Admin
Vial# : 55
Sample Name : 68810
Sample ID : 055
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181130\\055_68810_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1



Analysis Date & Time : 01.12.2018 04:43:40
User Name : Admin
Vial# : 56
Sample Name : 68811
Sample ID : 056
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181130\\056_68811_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

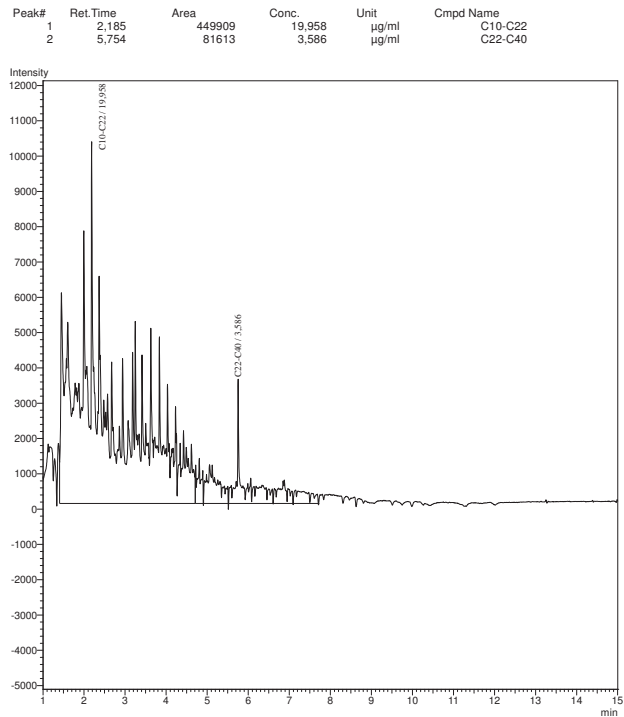
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 05:04:43
User Name : Admin
Vial# : 57
Sample Name : 68812
Sample ID : 057
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\057_68812_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

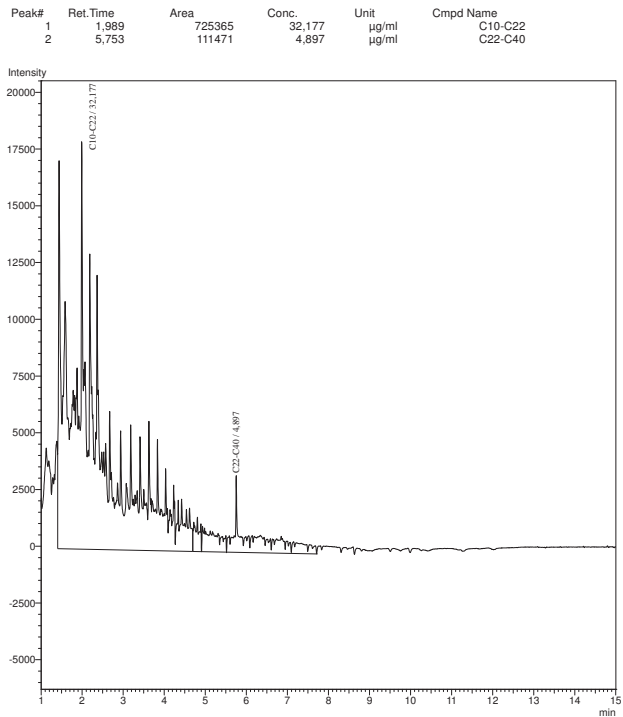
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 05:26:00
User Name : Admin
Vial# : 58
Sample Name : 68813
Sample ID : 058
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\058_68813_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

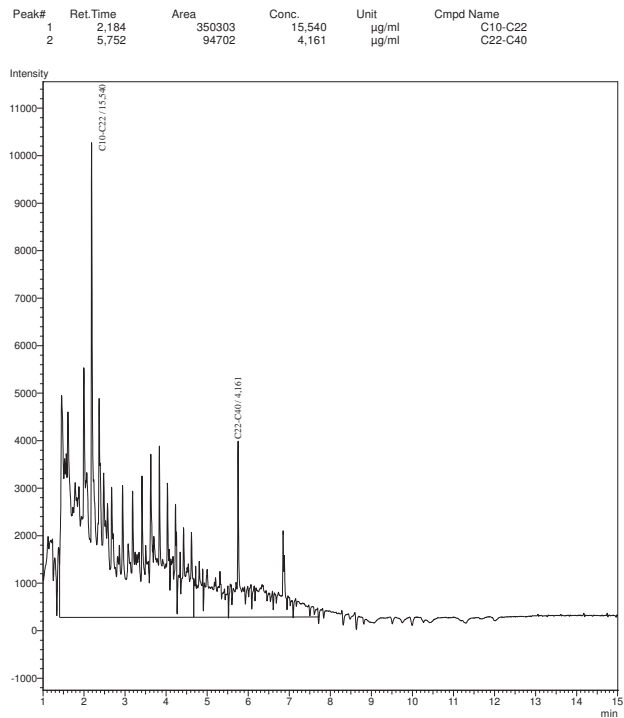
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 05:46:59
User Name : Admin
Vial# : 59
Sample Name : 68814
Sample ID : 059
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\059_68814_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

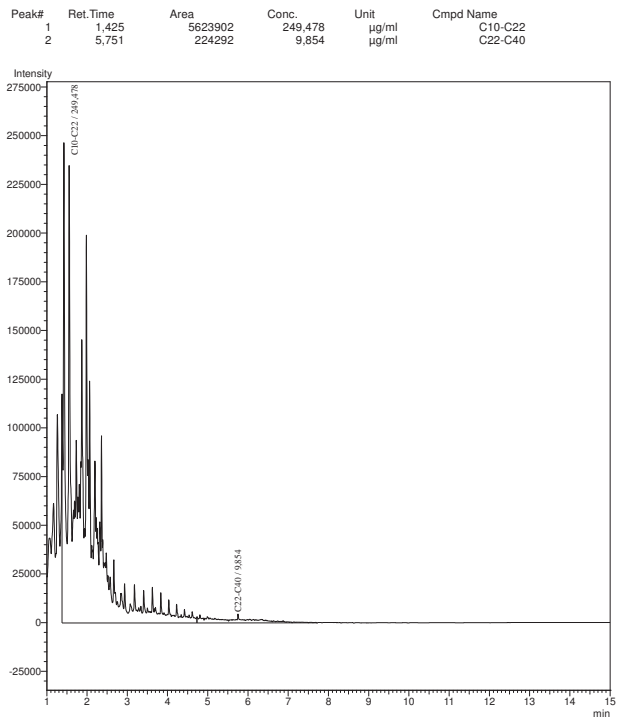
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 06:08:00
User Name : Admin
Vial# : 60
Sample Name : 68815
Sample ID : 060
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\060_68815_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

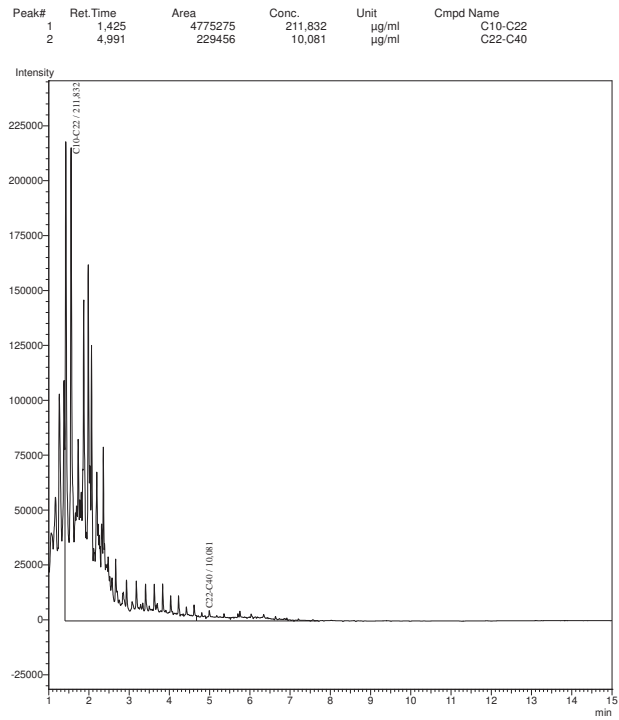
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 06:29:01
User Name : Admin
Vial# : 61
Sample Name : 68816
Sample ID : 061
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\061_68816_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

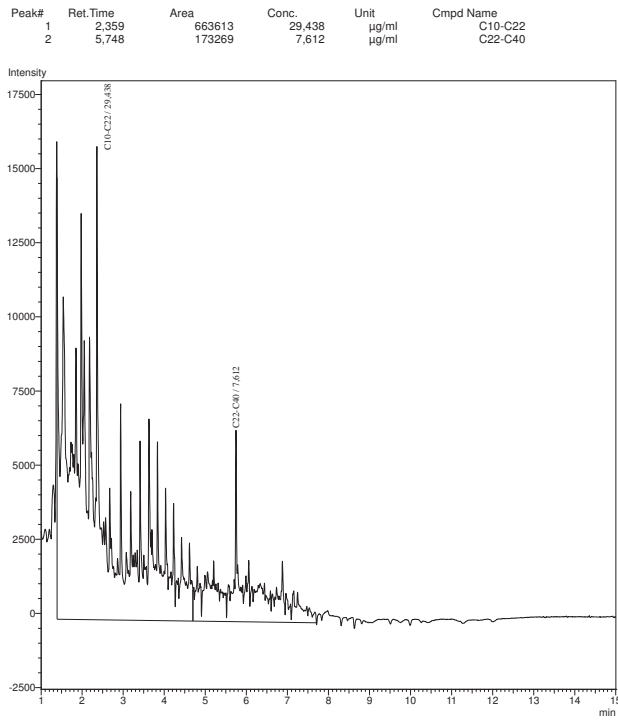
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 06:50:02
User Name : Admin
Vial# : 62
Sample Name : 68817
Sample ID : 062
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\062_68817_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

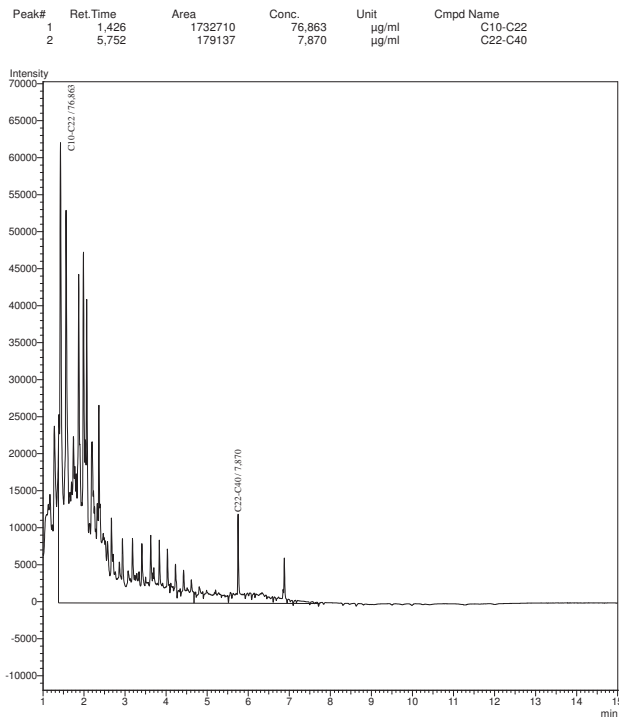
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 07:11:03
User Name : Admin
Vial# : 63
Sample Name : 68818
Sample ID : 063
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\063_68818_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

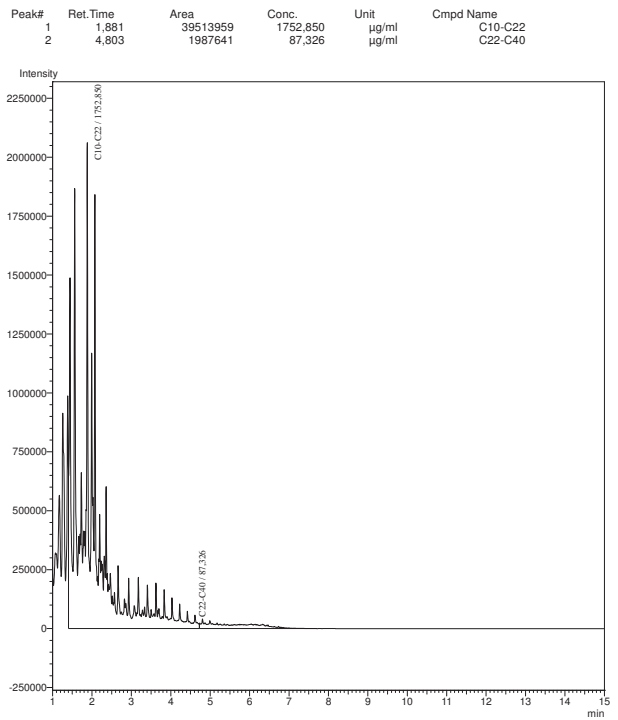
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 07:32:16
User Name : Admin
Vial# : 64
Sample Name : 68819
Sample ID : 064
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\064_68819_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

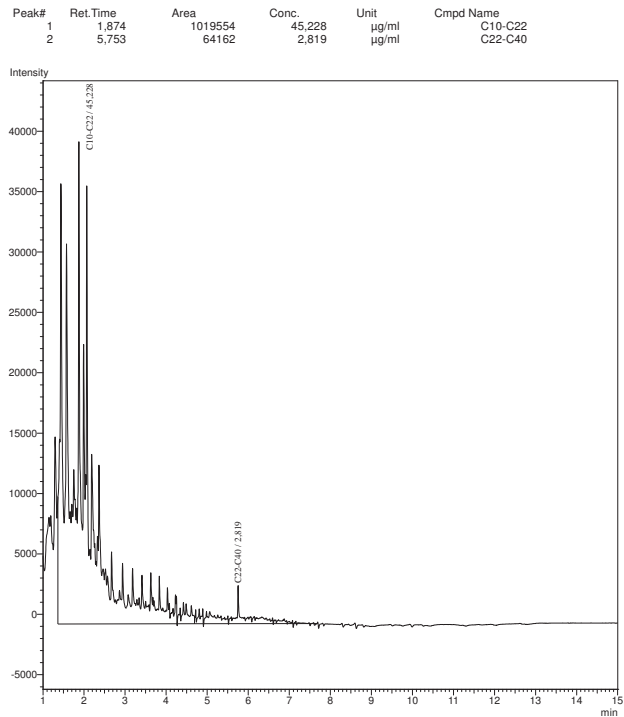
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 08:14:19
User Name : Admin
Vial# : 66
Sample Name : 68820
Sample ID : 066
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\066_68820_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

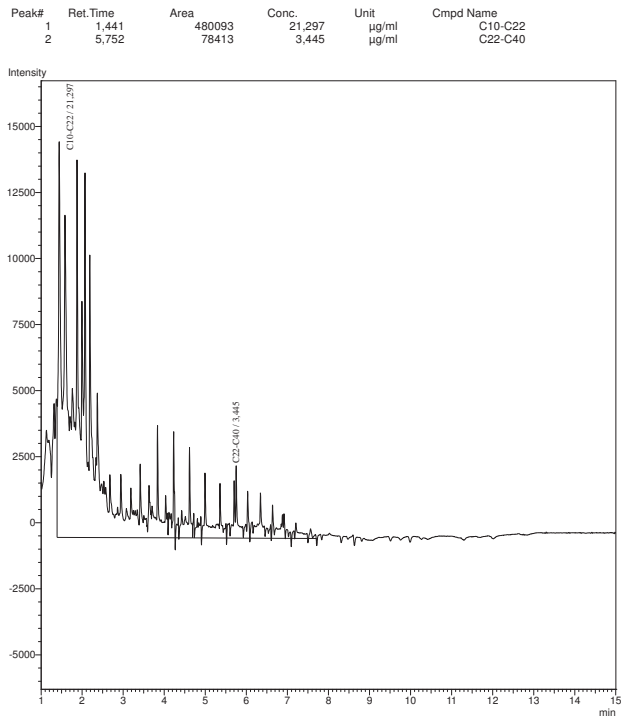
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 08:35:22
User Name : Admin
Vial# : 67
Sample Name : 68821
Sample ID : 067
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\067_68821_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

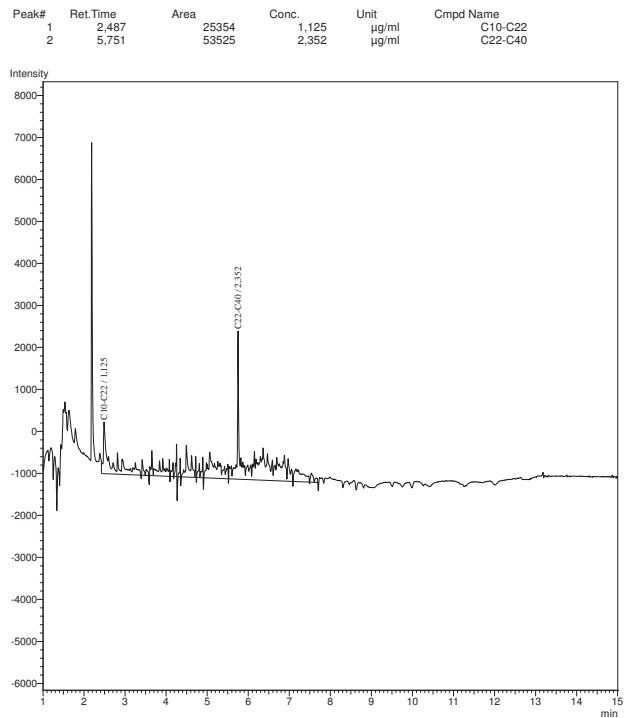
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 08:56:32
User Name : Admin
Vial# : 68
Sample Name : 68822
Sample ID : 068
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\068_68822_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

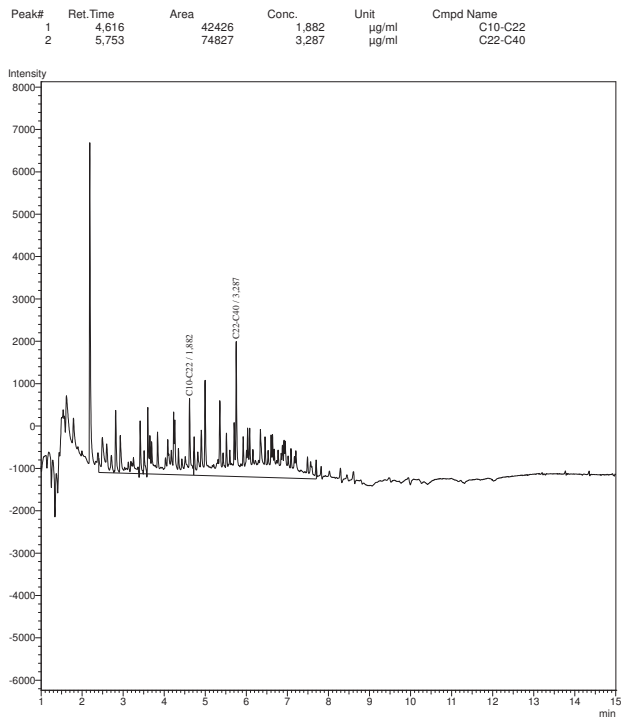
Group Results - Channel 1



Analysis Date & Time : 01.12.2018 09:17:33
User Name : Admin
Vial# : 69
Sample Name : 68823
Sample ID : 069
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\069_68823_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1

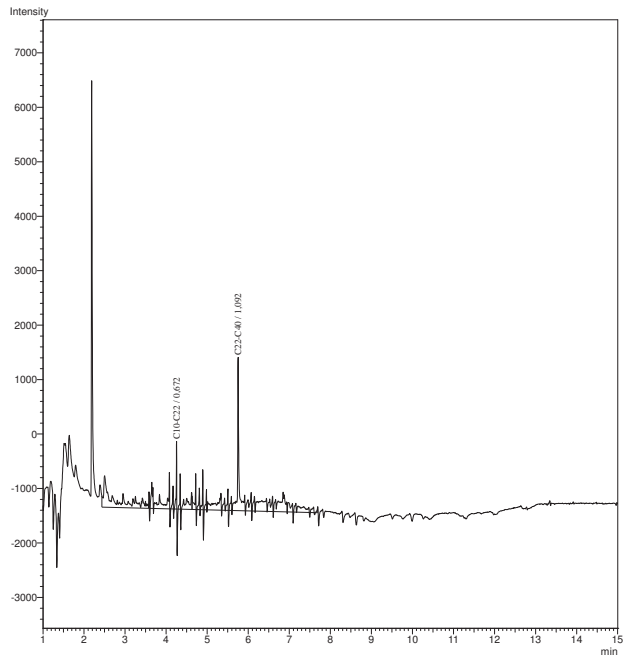


Analysis Date & Time : 01.12.2018 09:38:35
User Name : Admin
Vial# : 70
Sample Name : 68824
Sample ID : 070
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\070_68824_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,254	15149	0,672	µg/ml	C10-C22
2	5,753	24861	1,092	µg/ml	C22-C40

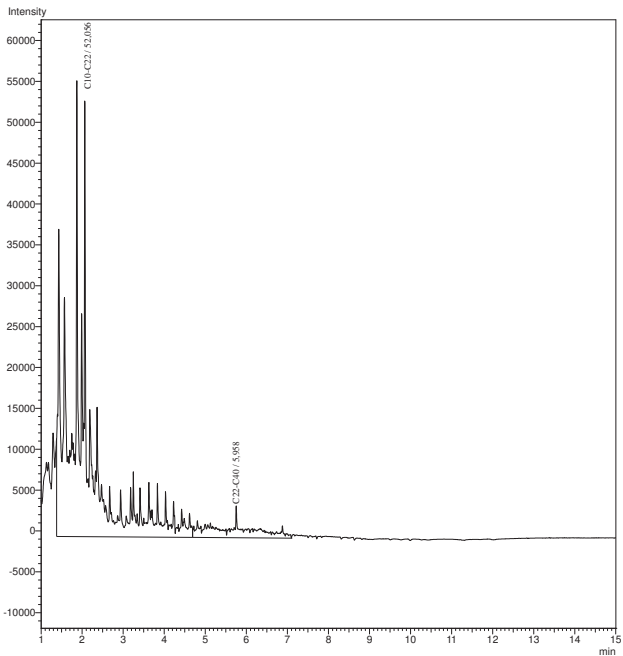


Analysis Date & Time : 01.12.2018 09:59:38
User Name : Admin
Vial# : 71
Sample Name : 68825
Sample ID : 071
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\071_68825_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,870	1173481	52,056	µg/ml	C10-C22
2	5,753	135617	5,958	µg/ml	C22-C40

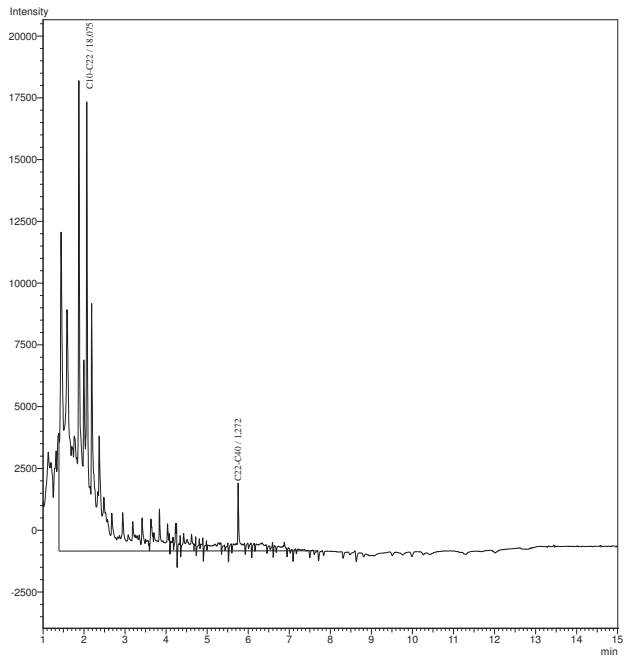


Analysis Date & Time : 01.12.2018 10:20:44
User Name : Admin
Vial# : 72
Sample Name : 68826
Sample ID : 072
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\072_68826_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,874	407450	18,075	µg/ml	C10-C22
2	5,754	28942	1,272	µg/ml	C22-C40

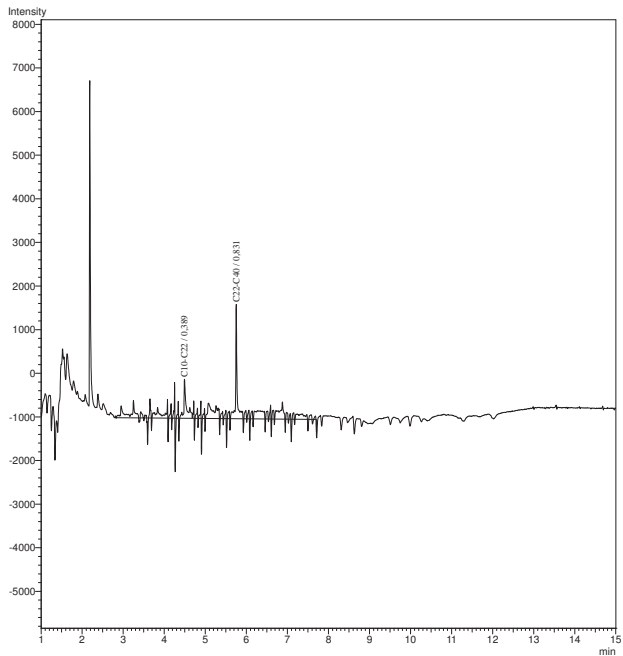


Analysis Date & Time : 01.12.2018 10:41:45
User Name : Admin
Vial# : 73
Sample Name : 68827
Sample ID : 073
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181130\\073_68827_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

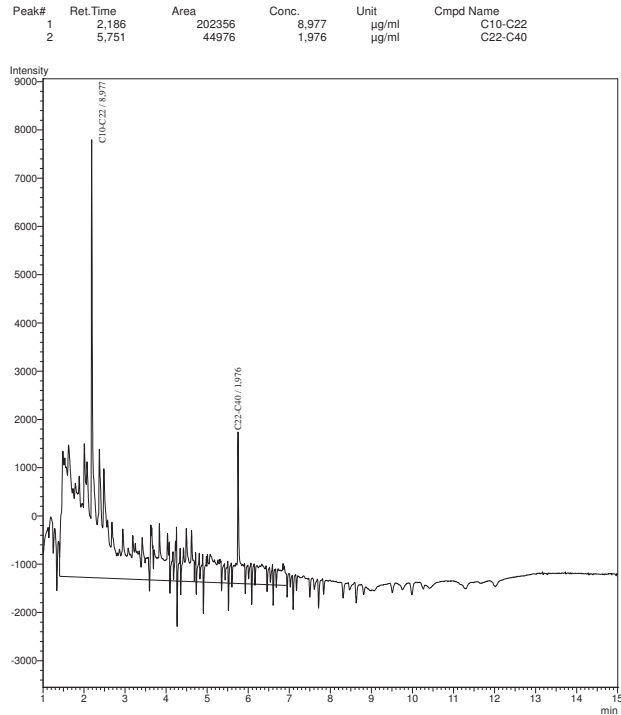
Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,493	8780	0,389	µg/ml	C10-C22
2	5,753	18908	0,831	µg/ml	C22-C40



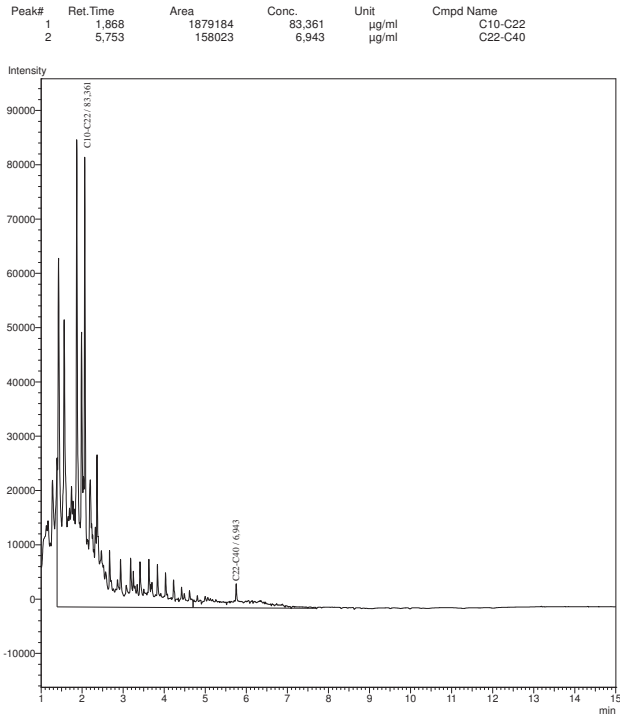
Analysis Date & Time : 01.12.2018 11:02:47
User Name : Admin
Vial# : 74
Sample Name : 68828
Sample ID : 074
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181130\\074_68828_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1



Analysis Date & Time : 01.12.2018 11:23:50
User Name : Admin
Vial# : 75
Sample Name : 68829
Sample ID : 075
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181130\\075_68829_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181130\\rr_h53.gcm

Group Results - Channel 1



Laboratorien Dr. Döring, Haferswende 12 28357 Bremen
GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33
10178 BERLIN

11. Dezember 2018

PRÜFBERICHT 06121859

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 06.12.2018
Probenransport: durch Laboratorien Dr. Döring GmbH am 06.12.2018
Probeneingang: 06.12.2018
Prüfzeitraum: 06.12.2018 – 11.12.2018
Probennummer: 69967 - 70005 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:
Analysenbefunde: Seite 2 - 5
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTEX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01
Qualitätskontrolle:

Dr. Jens Krause (stellv. Laborleiter) Dr. Joachim Döring (Geschäftsführer)



Labornummer	69967	69968	69969	69970
Probenbezeichnung	43-1	43-2	43-4	43-5
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	90,1	90,6	94,7	94,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	640	12
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	660	22
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	1,58	< 0,01
Ethylbenzol	< 0,01	< 0,01	0,44	0,02
Xylol	< 0,01	< 0,01	2,16	0,18
Trimethylbenzole	< 0,01	< 0,01	36,1	1,47
Summe BTEX	n.n.	n.n.	40,28	1,67

Labornummer	69971	69972	69973	69974
Probenbezeichnung	43-6	43-7	43-9	43-10
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,8	95,5	94,2	94,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	10	9	7
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	0,05	0,10
Xylol	0,03	0,07	0,27	0,52
Trimethylbenzole	0,18	0,32	0,82	1,56
Summe BTEX	0,21	0,39	1,14	2,18

Labornummer	69975	69976	69977	69978
Probenbezeichnung	43-12	43-13	43-14	43-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,2	93,3	88,9	87,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	43	68	410	110
Kohlenwasserstoffe, n-C ₁₀₋₄₀	46	75	420	130
Benzol	< 0,01	< 0,01	0,04	< 0,01
Toluol	0,04	0,11	2,12	0,71
Ethylbenzol	2,35	3,21	13,9	3,20
Xylol	9,26	12,6	59,7	19,1
Trimethylbenzole	11,0	13,4	43,6	11,2
Summe BTEX	22,65	29,32	119,36	34,21

Labornummer	69979	69980	69981	69982
Probenbezeichnung	43-16	43-17	39-1	39-2
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	82,1	85,2	89,6	95,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	170	250
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	180	260
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	0,02	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,17	0,02	< 0,01	0,03
Xylole	0,51	0,03	< 0,01	0,63
Trimethylbenzole	0,49	0,01	0,31	5,81
Summe BTEX	1,19	0,06	0,31	6,47

Labornummer	69983	69984	69985	69986
Probenbezeichnung	39-4	39-6	39-8	39-9
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,1	95,6	94,4	95,6
Kohlenwasserstoffe, n-C ₁₀₋₂₂	87	23	12	35
Kohlenwasserstoffe, n-C ₁₀₋₄₀	92	29	18	38
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,04	0,02	< 0,01	0,04
Xylole	0,54	0,87	0,93	0,67
Trimethylbenzole	2,51	3,13	3,30	2,58
Summe BTEX	3,09	4,02	4,23	3,29

Labornummer	69987	69988	69989	69990
Probenbezeichnung	39-10	39-12	39-14	39-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,1	94,3	88,9	86,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	120	44	260	110
Kohlenwasserstoffe, n-C ₁₀₋₄₀	130	53	260	120
Benzol	< 0,01	< 0,01	0,05	0,03
Toluol	< 0,01	0,31	4,19	1,03
Ethylbenzol	0,04	1,04	9,49	2,80
Xylole	0,33	7,68	53,0	16,5
Trimethylbenzole	0,31	6,80	29,9	11,0
Summe BTEX	0,68	15,83	96,63	31,36

Labornummer	69991	69992	69993	69994
Probenbezeichnung	39-16	39-17	42-1	42-2
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	57,1	83,9	88,3	90,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	41
Kohlenwasserstoffe, n-C ₁₀₋₄₀	8	< 5	9	46
Benzol	0,04	0,02	< 0,01	< 0,01
Toluol	0,33	0,06	< 0,01	< 0,01
Ethylbenzol	0,08	0,09	< 0,01	< 0,01
Xylole	0,31	0,24	< 0,01	< 0,01
Trimethylbenzole	0,01	0,04	< 0,01	< 0,01
Summe BTEX	0,77	0,45	n.n.	n.n.

Labornummer	69995	69996	69997	69998
Probenbezeichnung	42-4	42-6	42-7	42-9
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,3	96,1	96,4	94,3
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	0,04	0,02	< 0,01
Trimethylbenzole	0,02	0,27	0,15	0,06
Summe BTEX	0,02	0,31	0,17	0,06

Labornummer	69999	70000	70001	70002
Probenbezeichnung	42-10	42-12	42-13	42-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,5	94,3	94,3	90,8
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	5	28	65
Kohlenwasserstoffe, n-C ₁₀₋₄₀	8	8	33	69
Benzol	< 0,01	< 0,01	< 0,01	0,01
Toluol	< 0,01	< 0,01	0,03	1,36
Ethylbenzol	< 0,01	0,22	0,68	3,19
Xylole	0,02	1,78	4,43	17,3
Trimethylbenzole	0,15	3,34	6,50	12,4
Summe BTEX	0,17	5,34	11,64	34,26

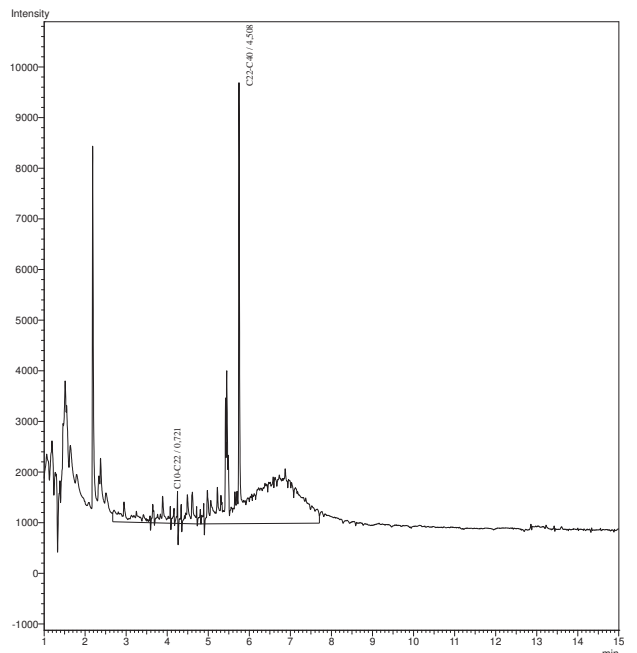
Labornummer	70003	70004	70005
Probenbezeichnung	42-15	42-16	42-17
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	89,9	82,2	81,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	36	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	45	< 5	5
Benzol	< 0,01	< 0,01	< 0,01
Toluol	0,37	0,02	< 0,01
Ethylbenzol	1,28	0,06	0,03
Xylole	6,81	0,08	0,02
Trimethylbenzole	7,37	< 0,01	< 0,01
Summe BTEX	15,83	0,16	0,05

Analysis Date & Time : 07.12.2018 10:53:37
User Name : Admin
Vial# : 8
Sample Name : 69967
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\008_69967_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\r_h53.gcm

Group Results - Channel 1

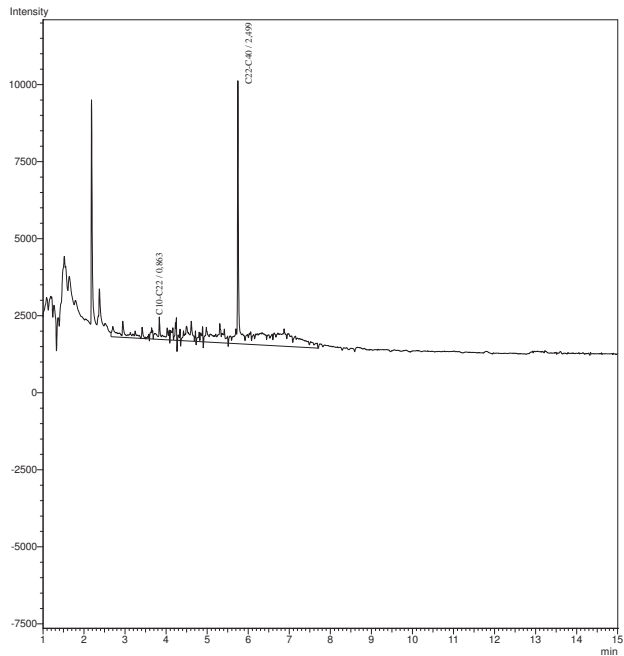
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,249	16733	0,721	µg/ml	C10-C22
2	5,748	107986	4,508	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 11:14:40
User Name : Admin
Vial# : 9
Sample Name : 69968
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\009_69968_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

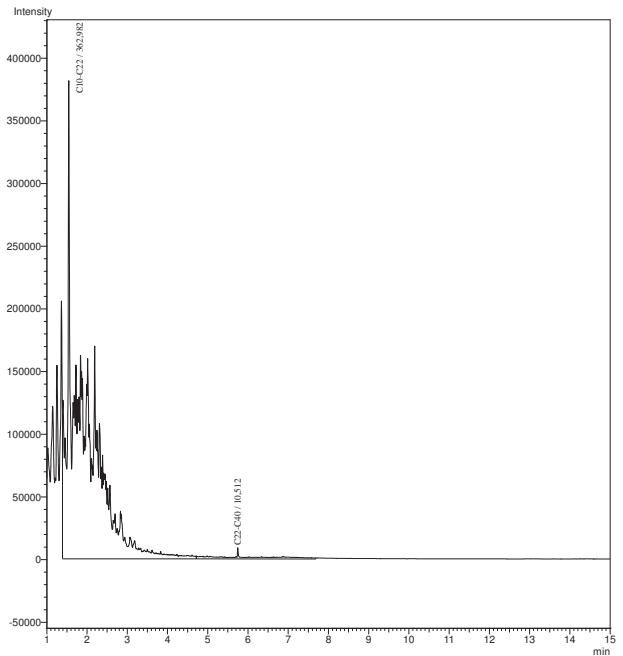
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,834	20016	0,863	µg/ml	C10-C22
2	5,747	59673	2,499	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 11:35:40
User Name : Admin
Vial# : 10
Sample Name : 69969
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\010_69969_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

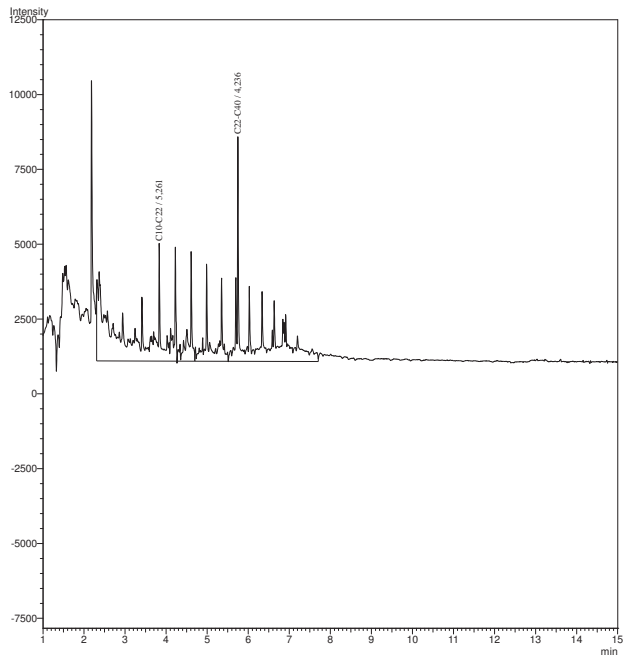
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,546	8422700	362,982	µg/ml	C10-C22
2	5,746	251832	10,512	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 11:56:42
User Name : Admin
Vial# : 11
Sample Name : 69970
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\011_69970_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

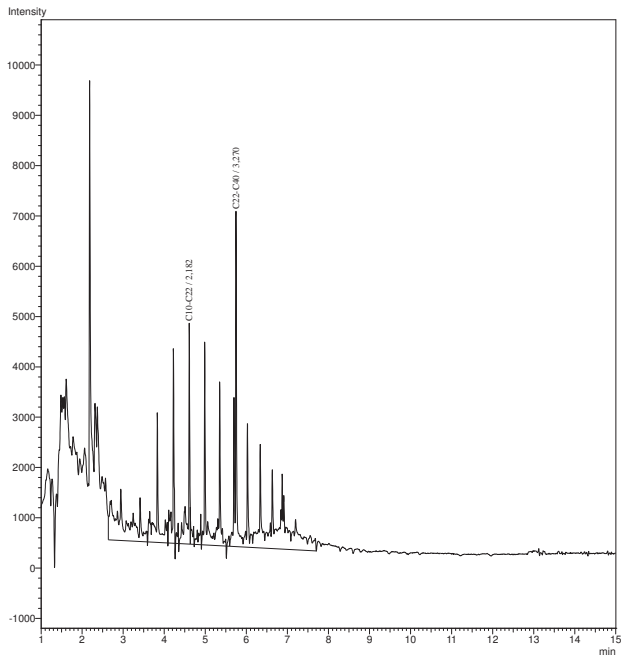
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,831	122076	5,261	µg/ml	C10-C22
2	5,747	101475	4,236	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 12:17:44
User Name : Admin
Vial# : 12
Sample Name : 69971
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\012_69971_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,609	50640	2,182	µg/ml	C10-C22
2	5,747	78349	3,270	µg/ml	C22-C40

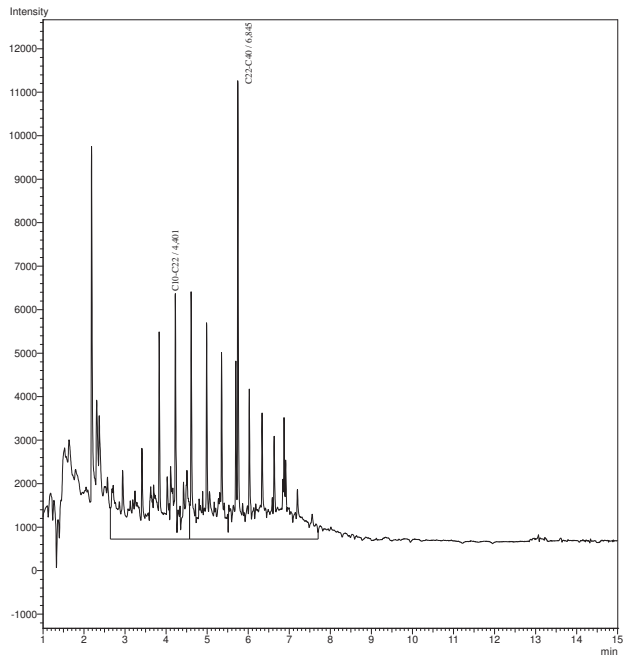


Analysis Date & Time : 07.12.2018 12:38:45
User Name : Admin
Vial# : 13
Sample Name : 69972
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\013_69972_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,224	102120	4,401	µg/ml	C10-C22
2	5,747	163979	6,845	µg/ml	C22-C40

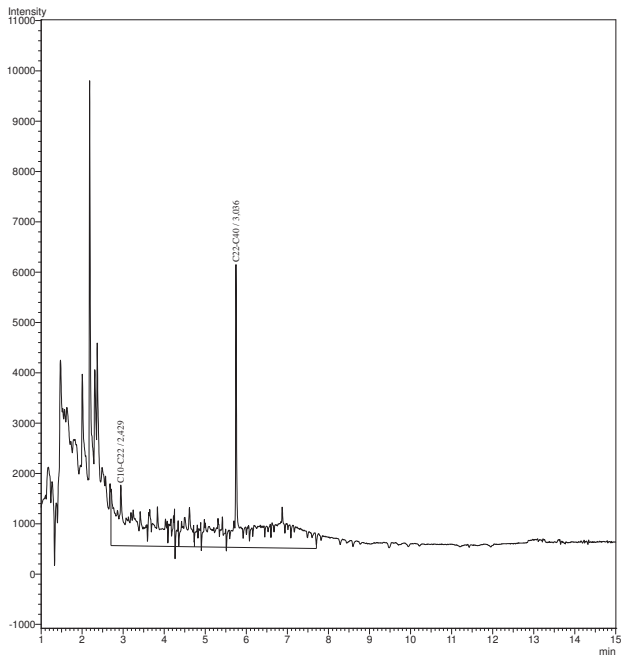


Analysis Date & Time : 07.12.2018 12:59:52
User Name : Admin
Vial# : 14
Sample Name : 69973
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\014_69973_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,942	56373	2,429	µg/ml	C10-C22
2	5,747	72738	3,036	µg/ml	C22-C40

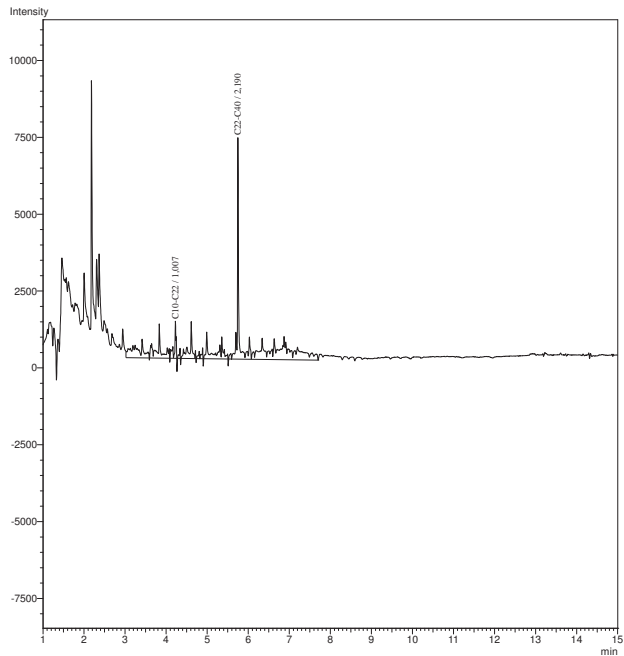


Analysis Date & Time : 07.12.2018 13:42:02
User Name : Admin
Vial# : 16
Sample Name : 69974
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\016_69974_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,226	23374	1,007	µg/ml	C10-C22
2	5,748	52463	2,190	µg/ml	C22-C40

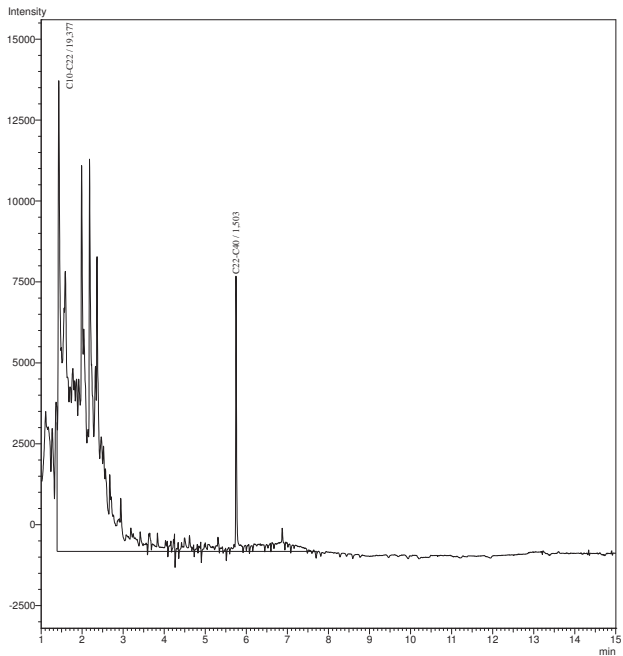


Analysis Date & Time : 07.12.2018 14:03:09
User Name : Admin
Vial# : 17
Sample Name : 69975
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\017_69975_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

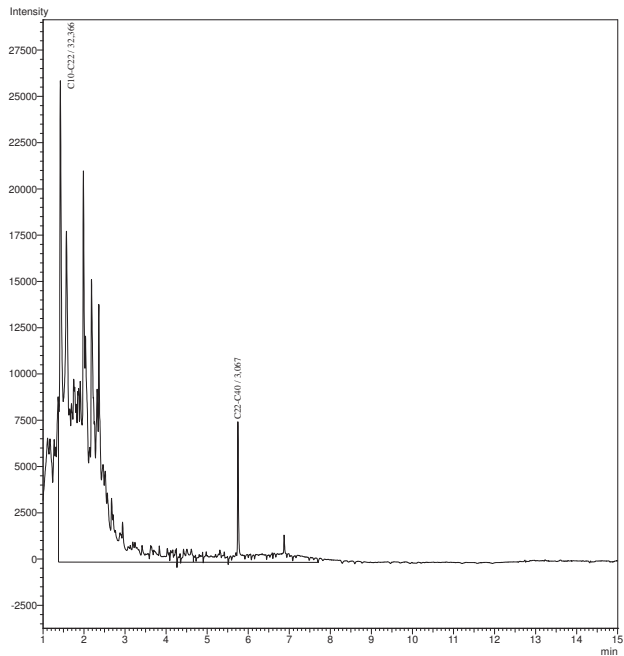
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,430	449630	19,377	µg/ml	C10-C22
2	5,748	35995	1,503	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 14:24:14
User Name : Admin
Vial# : 18
Sample Name : 69976
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\018_69976_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

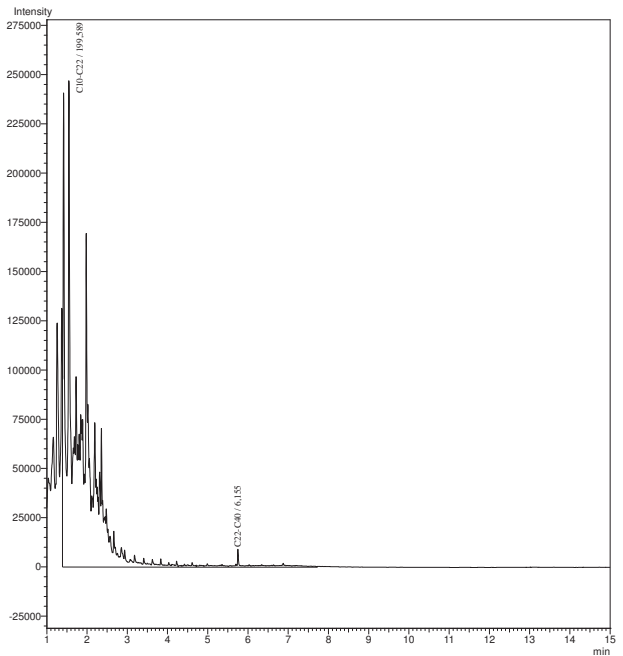
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,423	751025	32,366	µg/ml	C10-C22
2	5,749	73474	3,067	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 14:45:32
User Name : Admin
Vial# : 19
Sample Name : 69977
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\019_69977_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

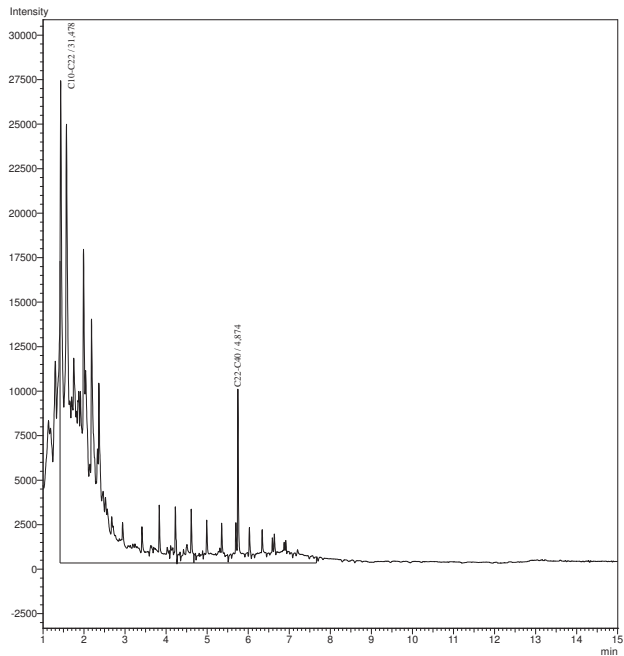
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,549	4631303	199,589	µg/ml	C10-C22
2	5,749	147452	6,155	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 15:06:36
User Name : Admin
Vial# : 20
Sample Name : 69978
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\020_69978_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

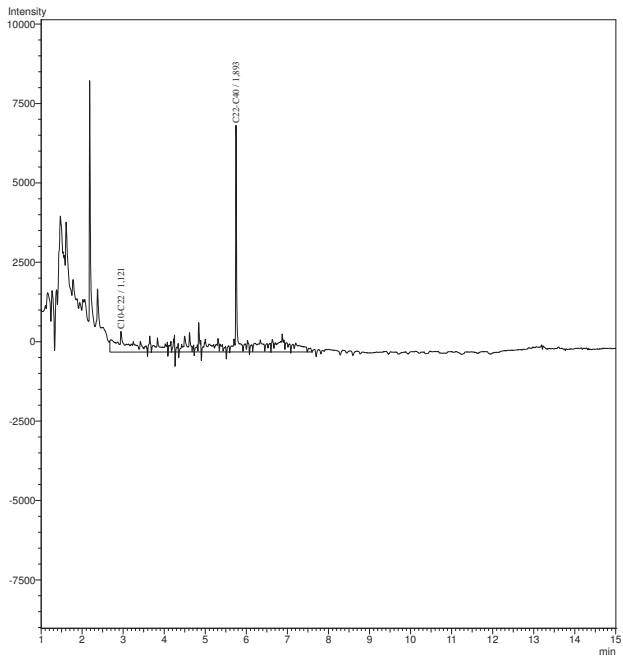
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,431	730428	31,478	µg/ml	C10-C22
2	5,748	116764	4,874	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 15:27:45
User Name : Admin
Vial# : 21
Sample Name : 69979
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID\\root_d\\2018\\fid_181207\\021_69979_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,946	26012	1,121	µg/ml	C10-C22
2	5,748	45341	1,893	µg/ml	C22-C40

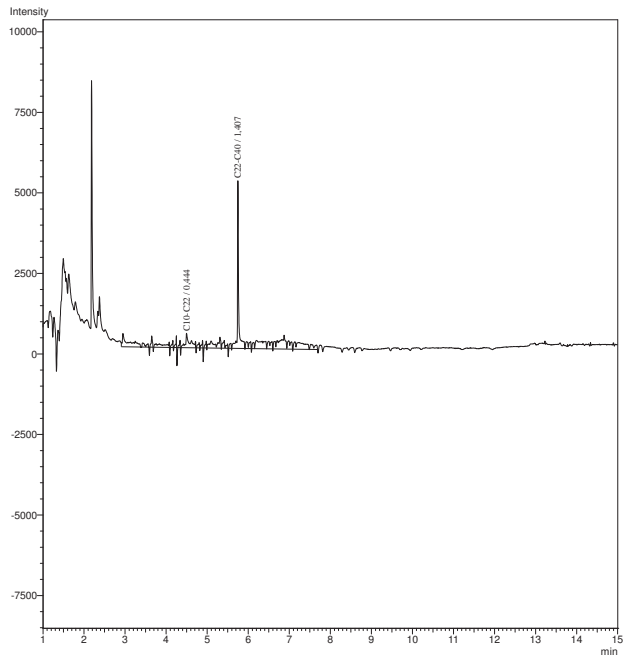


Analysis Date & Time : 07.12.2018 15:48:49
User Name : Admin
Vial# : 22
Sample Name : 69980
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\022_69980_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,497	10314	0,444	µg/ml	C10-C22
2	5,748	33700	1,407	µg/ml	C22-C40

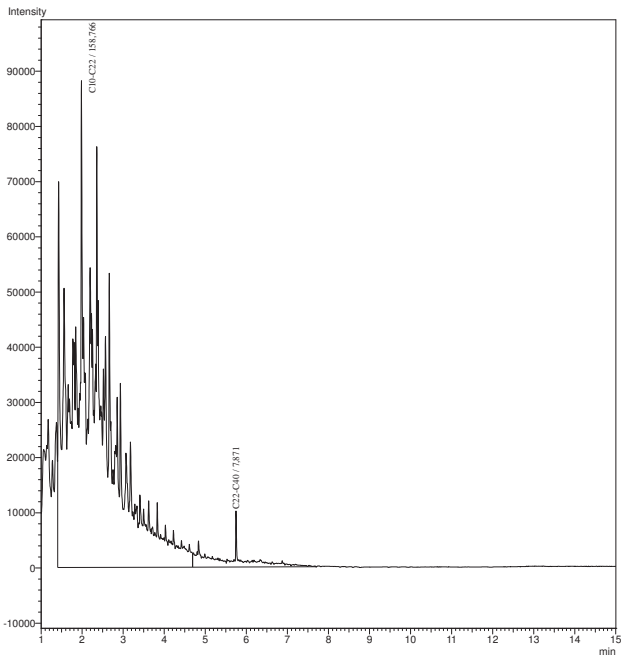


Analysis Date & Time : 07.12.2018 16:09:51
User Name : Admin
Vial# : 23
Sample Name : 69981
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\023_69981_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,982	3684030	158,766	µg/ml	C10-C22
2	5,748	188570	7,871	µg/ml	C22-C40

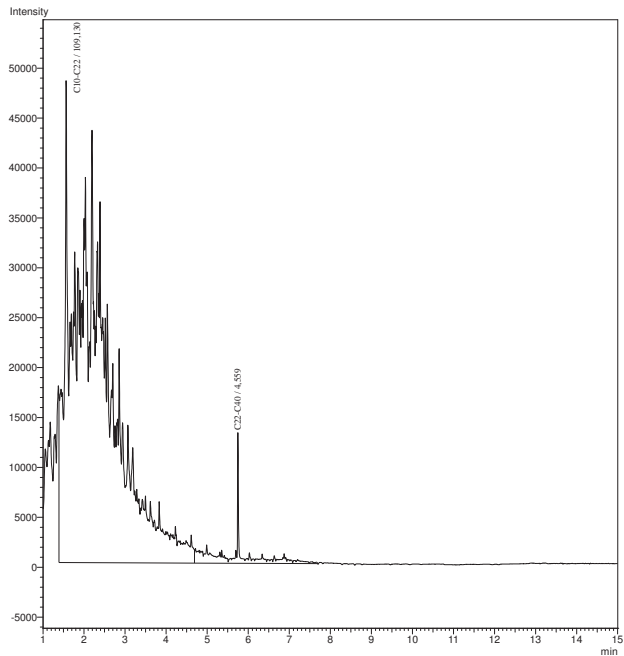


Analysis Date & Time : 07.12.2018 16:30:59
User Name : Admin
Vial# : 24
Sample Name : 69982
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\024_69982_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,564	2532276	109,130	µg/ml	C10-C22
2	5,748	109221	4,559	µg/ml	C22-C40

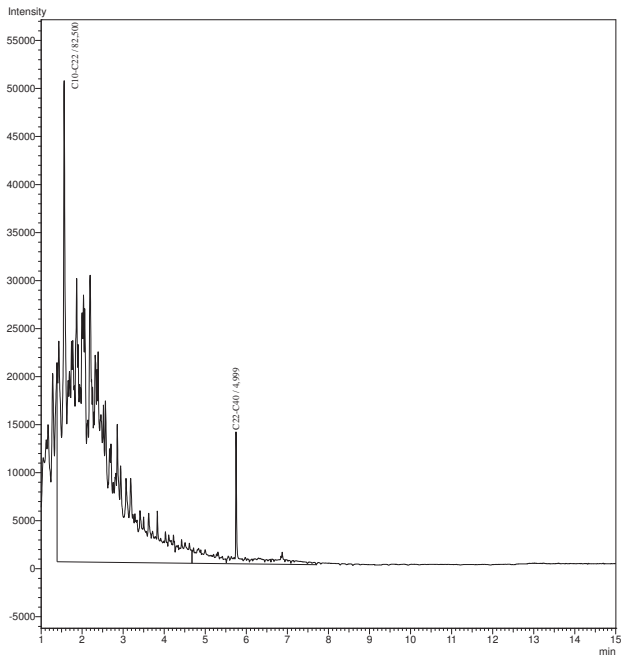


Analysis Date & Time : 07.12.2018 16:52:01
User Name : Admin
Vial# : 25
Sample Name : 69983
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\025_69983_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

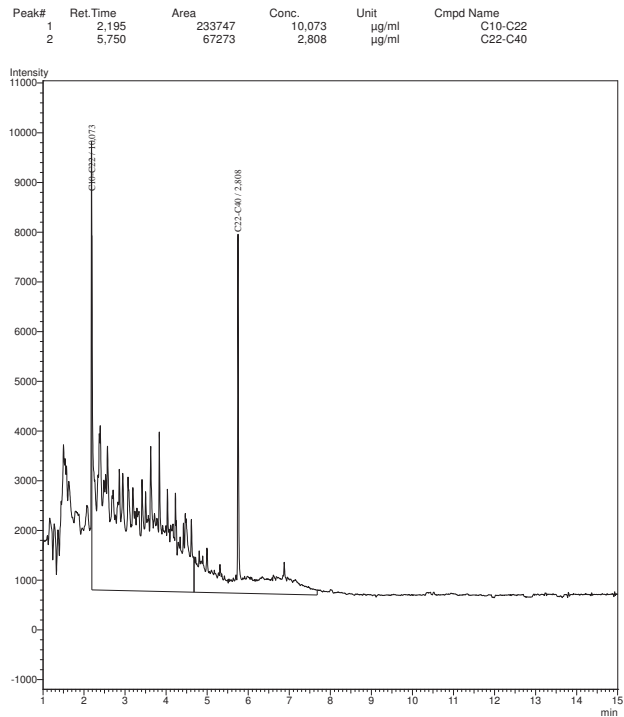
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,561	1914352	82,500	µg/ml	C10-C22
2	5,748	119766	4,999	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 18:37:31
User Name : Admin
Vial# : 30
Sample Name : 69984
Sample ID : 030
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\030_69984_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

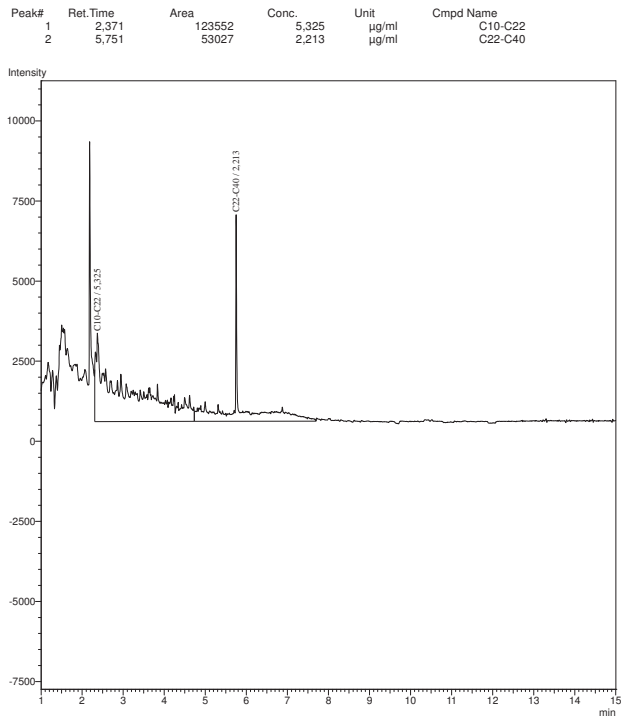
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 18:58:41
User Name : Admin
Vial# : 31
Sample Name : 69985
Sample ID : 031
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\031_69985_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

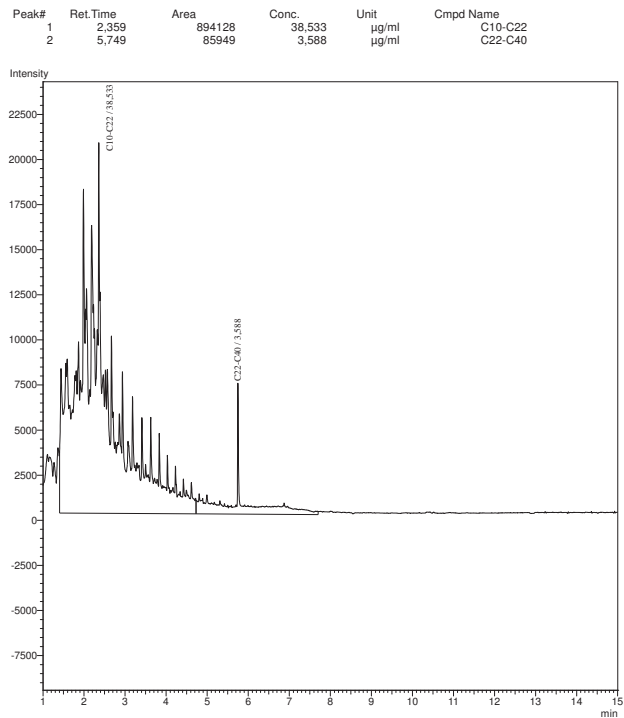
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 19:19:55
User Name : Admin
Vial# : 32
Sample Name : 69986
Sample ID : 032
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID\\root_d\\2018\\fid_181207\\032_69986_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

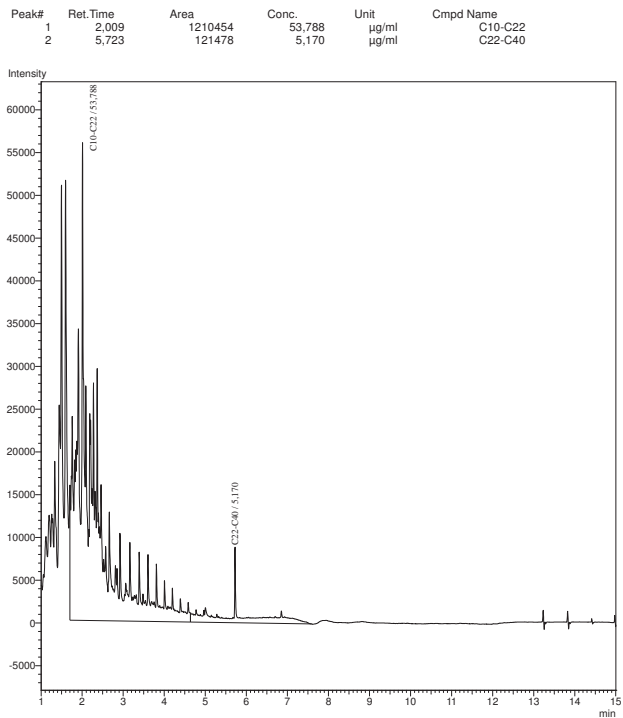
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 12:27:52
User Name : Admin
Vial# : 8
Sample Name : 69987
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FID2\\root_d\\2018\\fid2_181207\\008_69987_01.gcd
Method Name : \\FID2\\root_d\\2018\\fid2_181207\\rr_h53.gcm

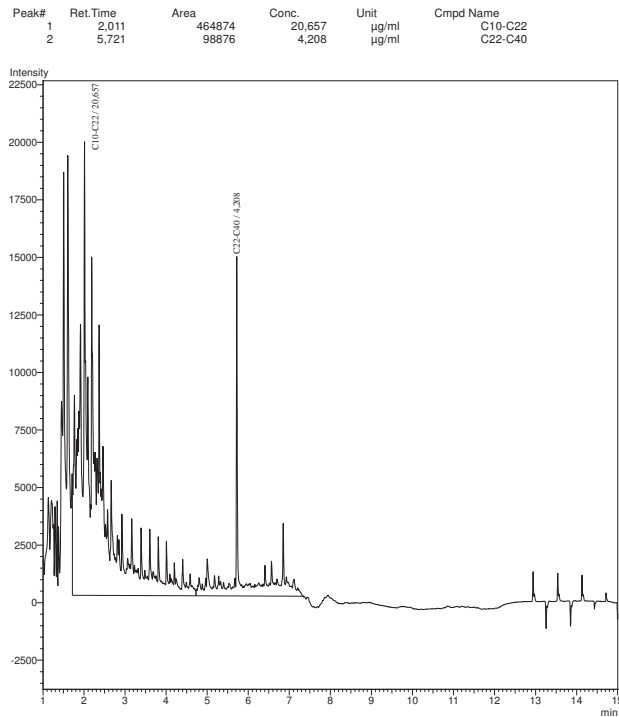
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 12:48:45
User Name : Admin
Vial# : 9
Sample Name : 69988
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\009_69988_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

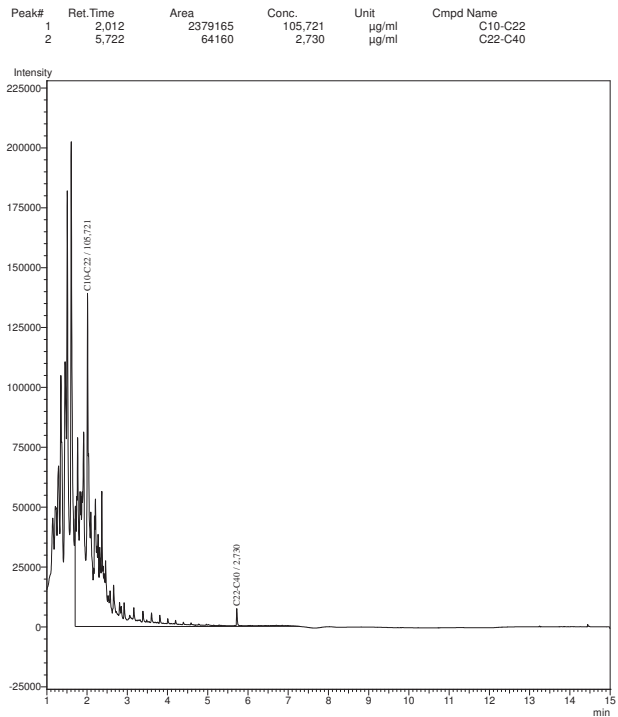
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 13:09:38
User Name : Admin
Vial# : 10
Sample Name : 69989
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\010_69989_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

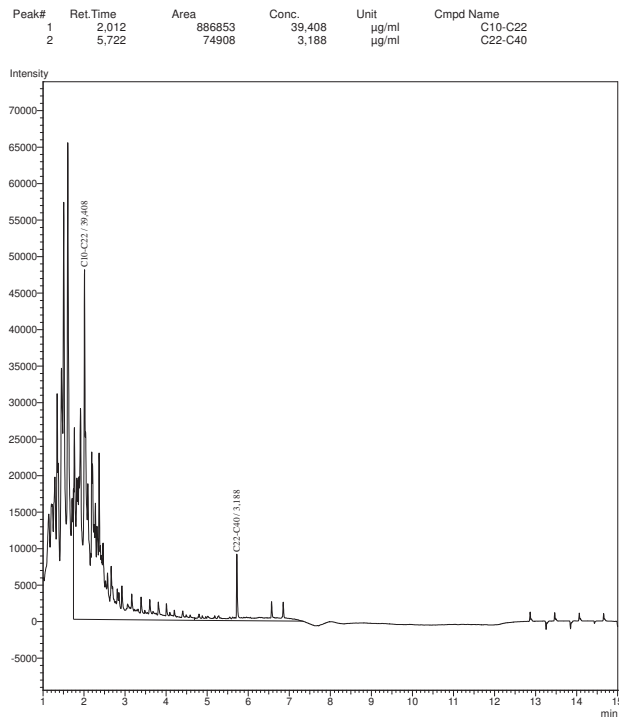
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 13:30:33
User Name : Admin
Vial# : 11
Sample Name : 69990
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\011_69990_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

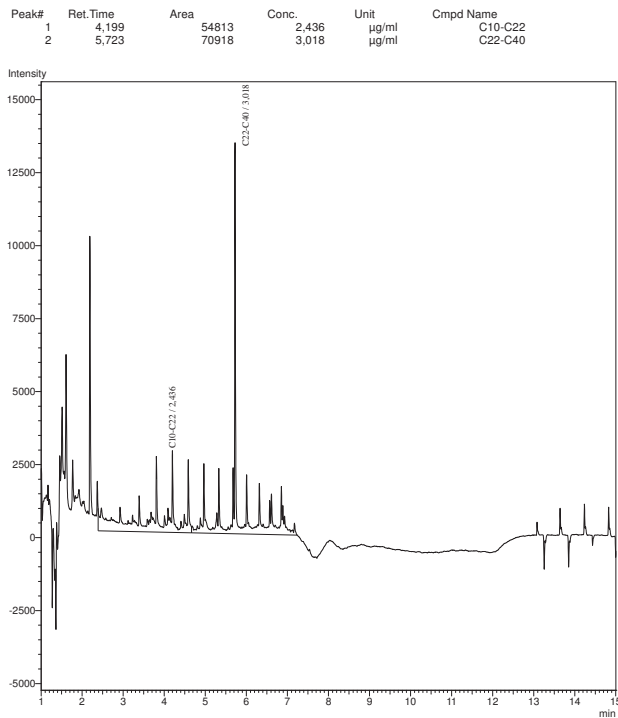
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 13:51:26
User Name : Admin
Vial# : 12
Sample Name : 69991
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\012_69991_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

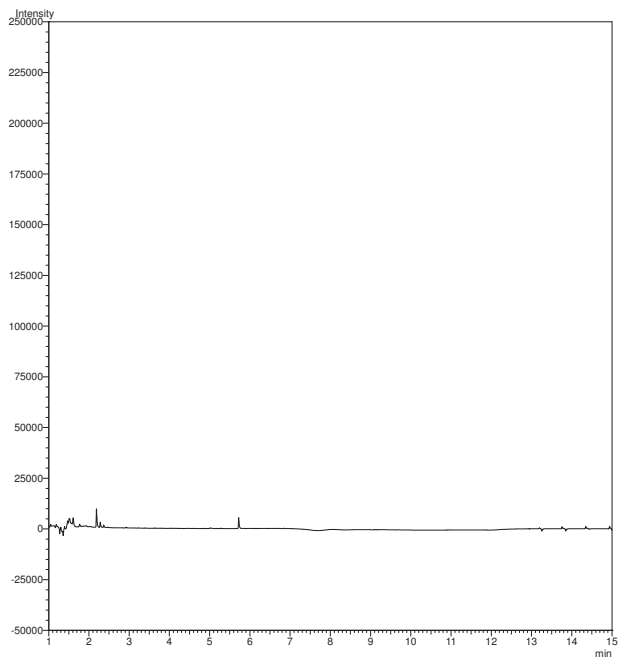
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 14:12:20
User Name : Admin
Vial# : 13
Sample Name : 69992
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\013_69992_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

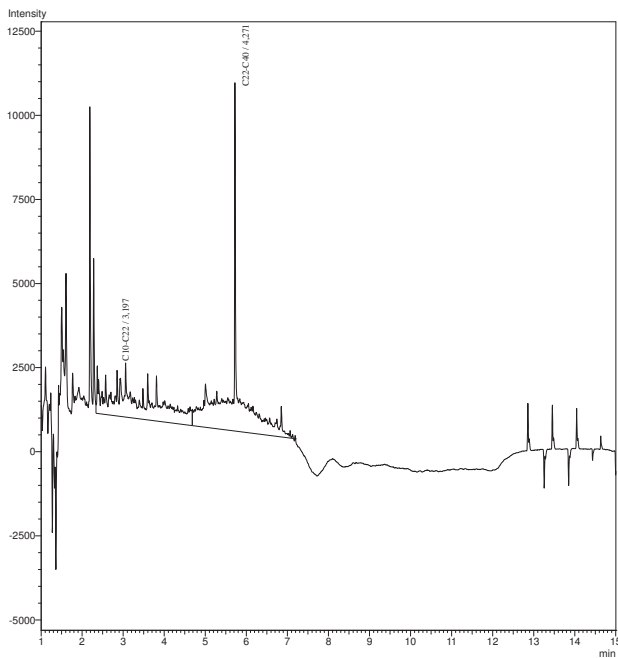


Analysis Date & Time : 07.12.2018 14:33:13
User Name : Admin
Vial# : 14
Sample Name : 69993
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\014_69993_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,058	71946	3,197	µg/ml	C10-C22
2	5,722	100351	4,271	µg/ml	C22-C40

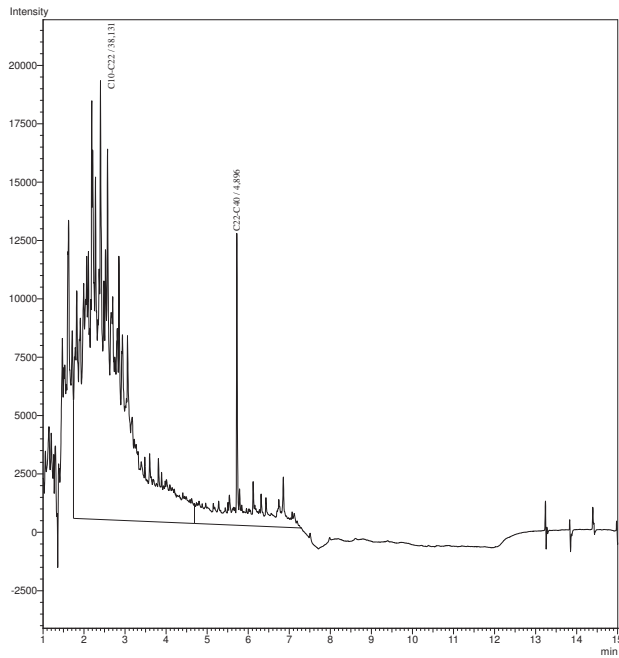


Analysis Date & Time : 07.12.2018 15:15:01
User Name : Admin
Vial# : 16
Sample Name : 69994
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\016_69994_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,400	858118	38,131	µg/ml	C10-C22
2	5,722	115048	4,896	µg/ml	C22-C40

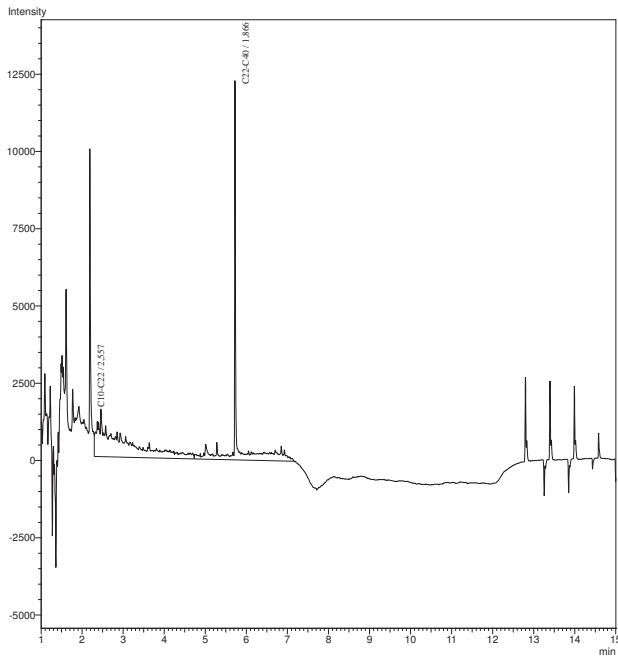


Analysis Date & Time : 07.12.2018 15:35:52
User Name : Admin
Vial# : 17
Sample Name : 69995
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\017_69995_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

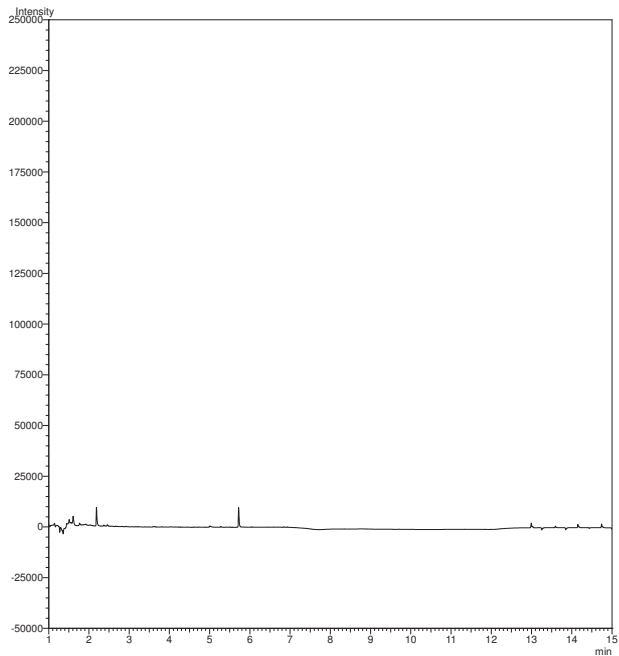
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,457	57551	2,557	µg/ml	C10-C22
2	5,723	43848	1,866	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 15:56:47
User Name : Admin
Vial# : 18
Sample Name : 69996
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\018_69996_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

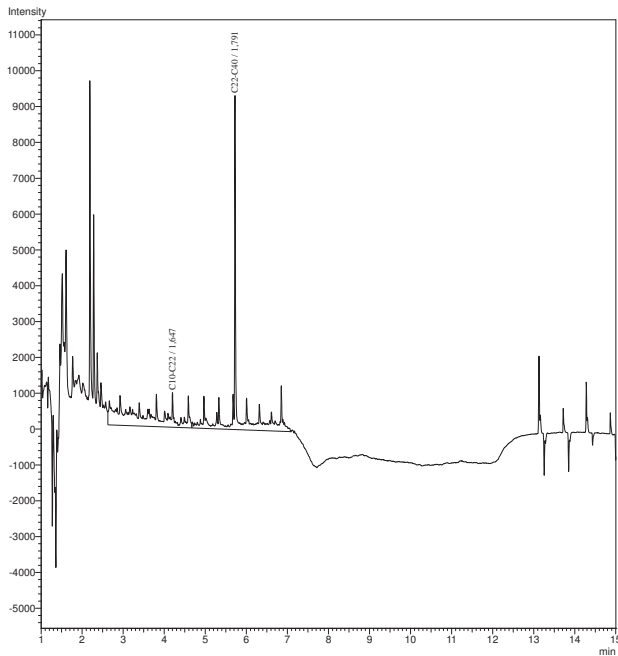


Analysis Date & Time : 07.12.2018 16:17:41
User Name : Admin
Vial# : 19
Sample Name : 69997
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\019_69997_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

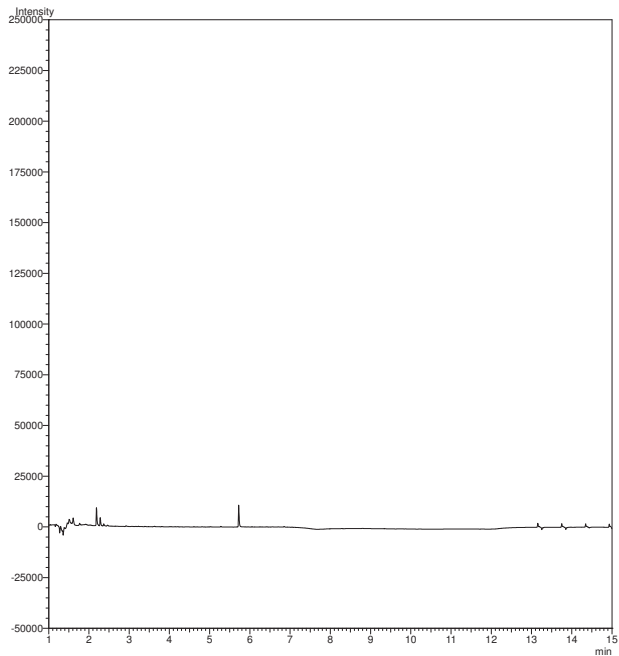
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.200	37073	1,647	µg/ml	C10-C22
2	5.723	42093	1,731	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 16:38:35
User Name : Admin
Vial# : 20
Sample Name : 69998
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\020_69998_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

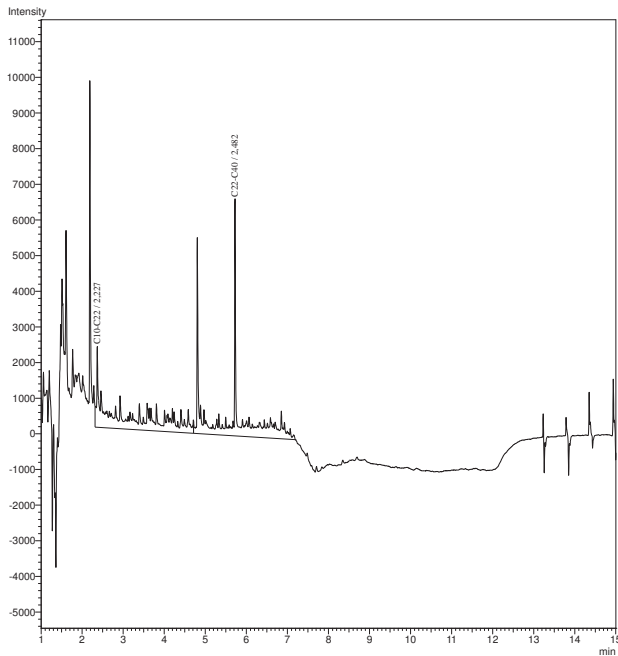


Analysis Date & Time : 07.12.2018 16:59:31
User Name : Admin
Vial# : 21
Sample Name : 69999
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\021_69999_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1

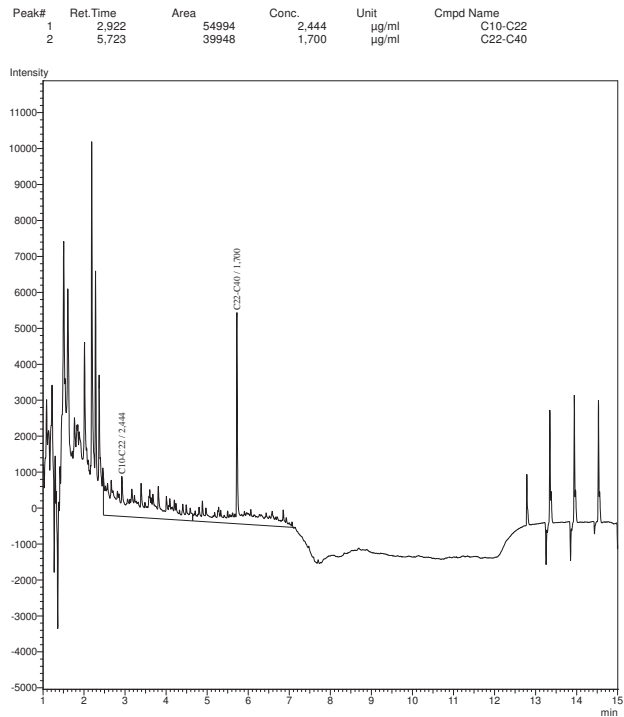
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2.368	50122	2,227	µg/ml	C10-C22
2	5.723	58330	2,482	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 17:20:24
User Name : Admin
Vial# : 22
Sample Name : 70000
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\022_70000_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

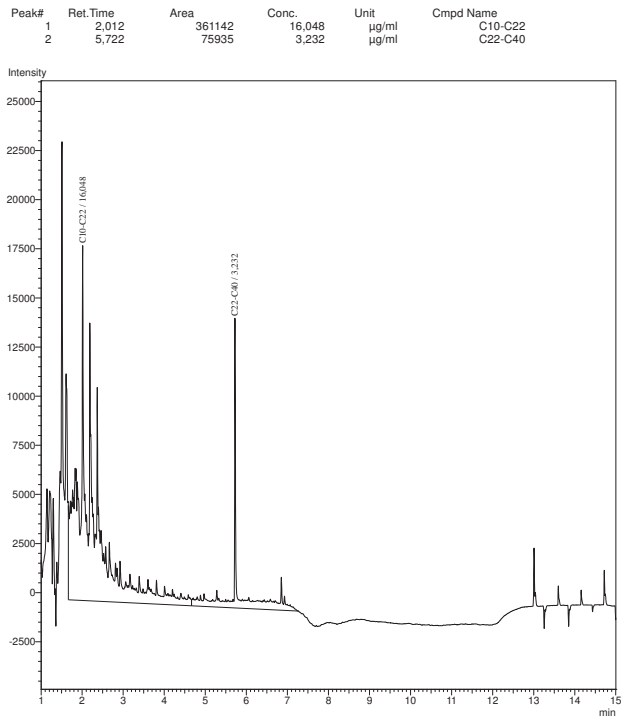
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 17:41:17
User Name : Admin
Vial# : 23
Sample Name : 70001
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\023_70001_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

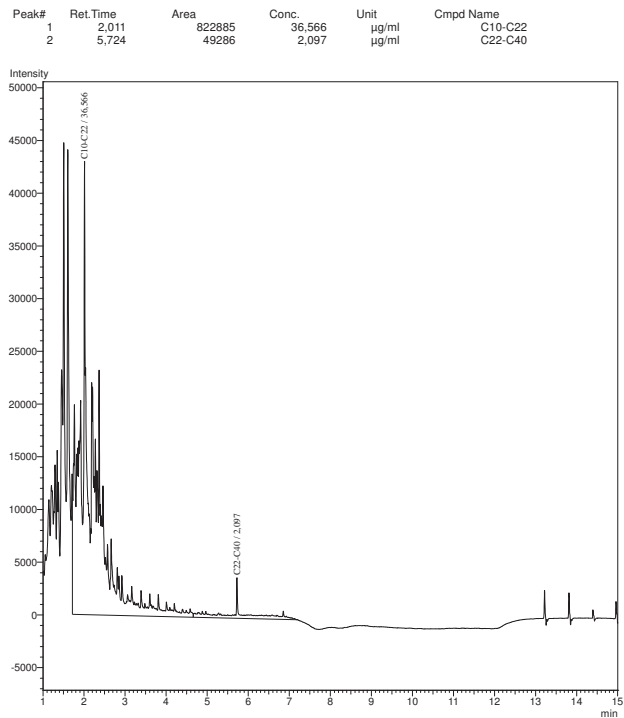
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 18:02:12
User Name : Admin
Vial# : 24
Sample Name : 70002
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181207\\024_70002_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

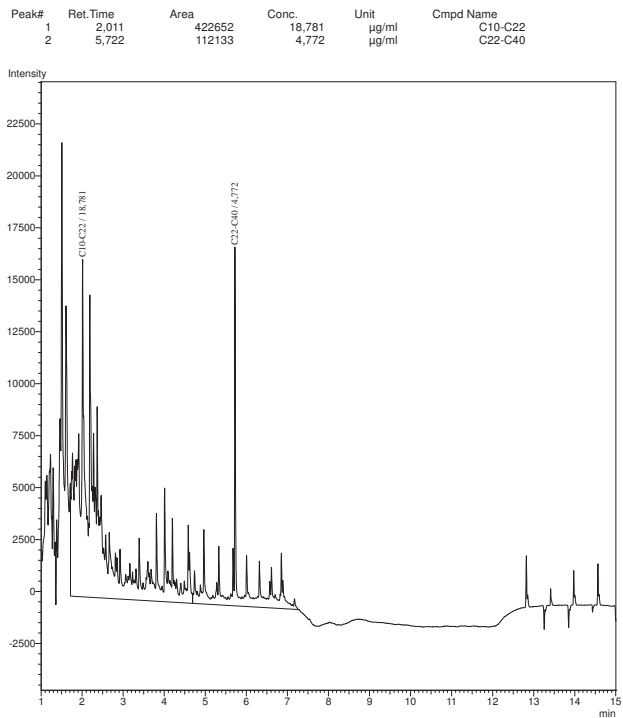
Group Results - Channel 1



Analysis Date & Time : 07.12.2018 18:23:06
User Name : Admin
Vial# : 25
Sample Name : 70003
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

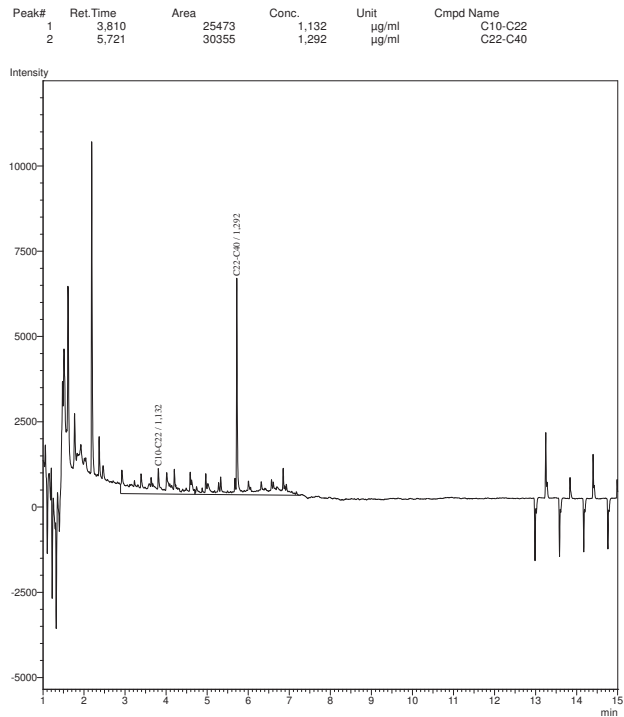
Data Name : \\FI2\\root_d\\2018\\fi2_181207\\025_70003_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1



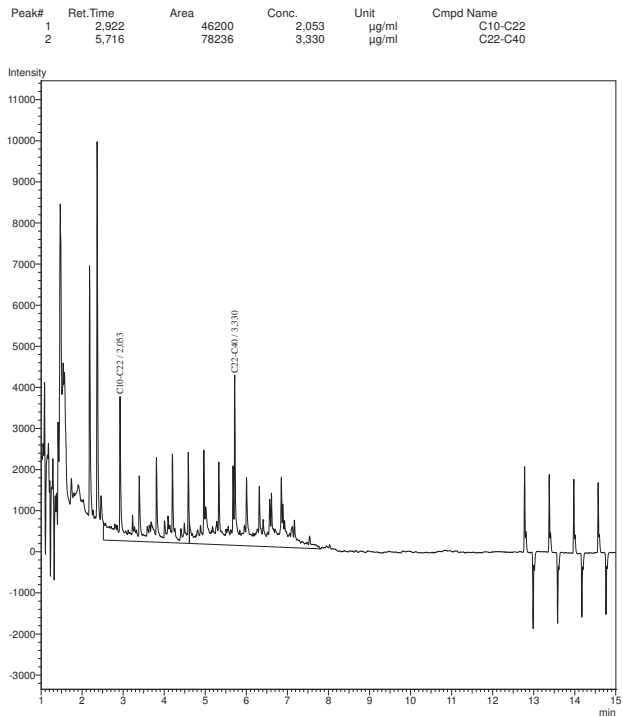
Analysis Date & Time : 07.12.2018 20:07:33
User Name : Admin
Vial# : 30
Sample Name : 70004
Sample ID : 030
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FI2\\root_d\\2018\\fi2_181207\\030_70004_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1



Analysis Date & Time : 07.12.2018 20:28:28
User Name : Admin
Vial# : 31
Sample Name : 70005
Sample ID : 031
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FI2\\root_d\\2018\\fi2_181207\\031_70005_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181207\\rr_h53.gcm

Group Results - Channel 1



Laboratorien Dr. Döring, Hafenwende 12 28357 Bremen
GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33
10178 BERLIN

19. Dezember 2018

PRÜFBERICHT 13121858

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 13.12.2018
Probenransport: durch Laboratorien Dr. Döring GmbH am 13.12.2018
Probeneingang: 13.12.2018
Prüfzeitraum: 13.12.2018 – 18.12.2018
Probennummer: 71689 - 71715 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:
Analysenbefunde: Seite 2 - 4
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTEX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01
Qualitätskontrolle:

Dr. Jens Krause (stellv. Laborleiter) Dr. Joachim Döring (Geschäftsführer)



Labornummer	71689	71690	71691	71692
Probenbezeichnung	50-2	50-4	50-8	50-9
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	81,4	87,4	92,4	92,7
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	120	110
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	6	130	110
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	0,08	0,07
Xylol	< 0,01	< 0,01	1,00	1,07
Trimethylbenzole	< 0,01	0,04	11,6	8,87
Summe BTEX	n.n.	0,04	12,69	10,01

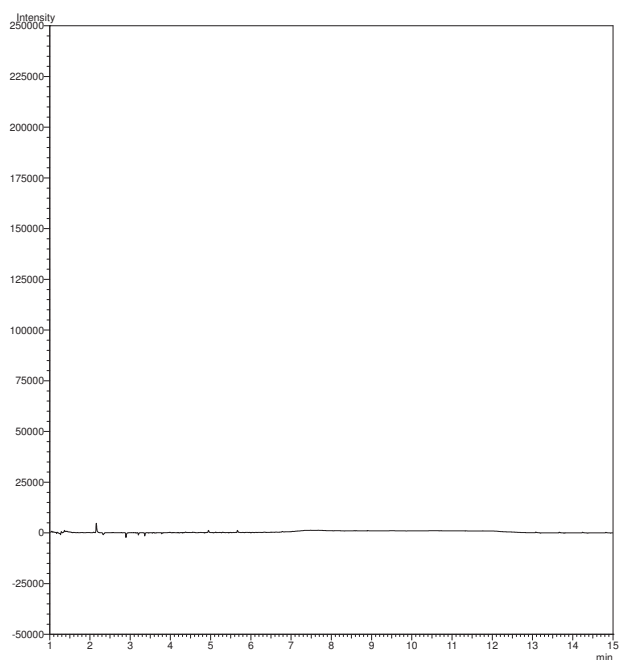
Labornummer	71693	71694	71695	71696
Probenbezeichnung	50-10	50-12	50-14	50-15
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	92,4	92,5	88,5	82,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	230	230	430	140
Kohlenwasserstoffe, n-C ₁₀₋₄₀	230	240	440	150
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,18	0,80	1,45	0,32
Xylol	4,72	4,87	5,86	1,08
Trimethylbenzole	20,9	30,1	37,7	10,3
Summe BTEX	25,80	35,77	45,01	11,70

Labornummer	71697	71698	71699	71700
Probenbezeichnung	50-16	50-17	49-1	49-4
Dimension	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)	(mg/kg TS)
Trockenmasse [%]	83,9	84,1	89,9	95,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	10	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	22	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylol	< 0,01	0,01	0,02	< 0,01
Trimethylbenzole	< 0,01	0,05	0,03	< 0,01
Summe BTEX	n.n.	0,06	0,05	n.n.

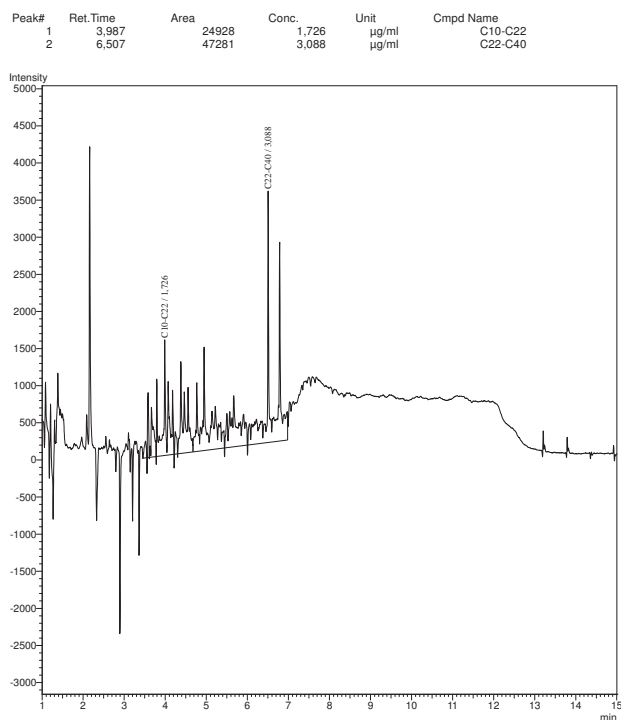
Labornummer	71709	71710	71711	71712
Probenbezeichnung	48-11	48-12	48-13	48-14
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,4	95,4	94,8	97,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	51	240	140
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	55	240	140
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	0,05	2,49	0,76
Xylole	< 0,01	0,13	6,31	2,52
Trimethylbenzole	< 0,01	2,25	29,5	10,7
Summe BTEX	n.n.	2,43	36,30	13,98

Labornummer	71713	71714	71715	
Probenbezeichnung	48-15	48-17	50-7	
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	
Trockenmasse [%]	87,2	82,2	92,5	
Kohlenwasserstoffe, n-C ₁₀₋₂₂	77	< 5	180	
Kohlenwasserstoffe, n-C ₁₀₋₄₀	82	< 5	190	
Benzol	< 0,01	< 0,01	< 0,01	
Toluol	< 0,01	< 0,01	< 0,01	
Ethylbenzol	0,09	0,19	0,01	
Xylole	0,33	0,03	0,28	
Trimethylbenzole	1,62	0,03	7,45	
Summe BTEX	2,04	0,24	7,74	

Group Results - Channel 1



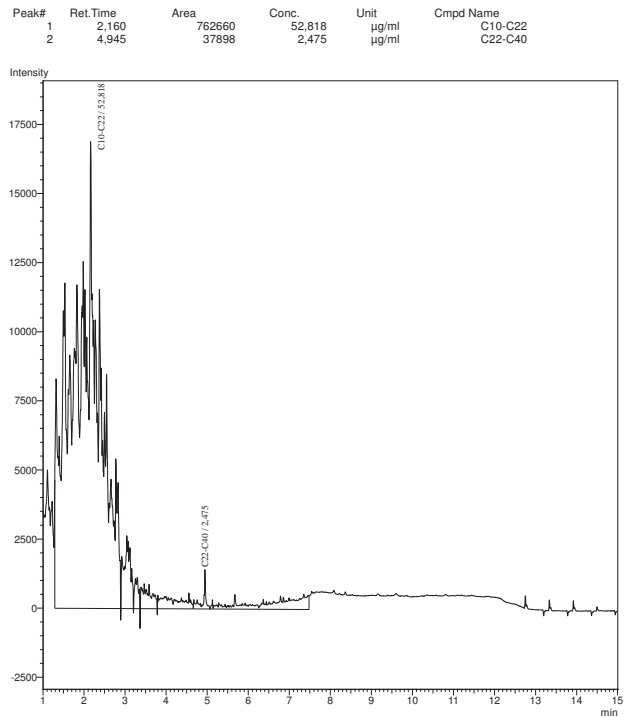
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 16:04:46
User Name : Admin
Vial# : 16
Sample Name : 71691
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\016_71691_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

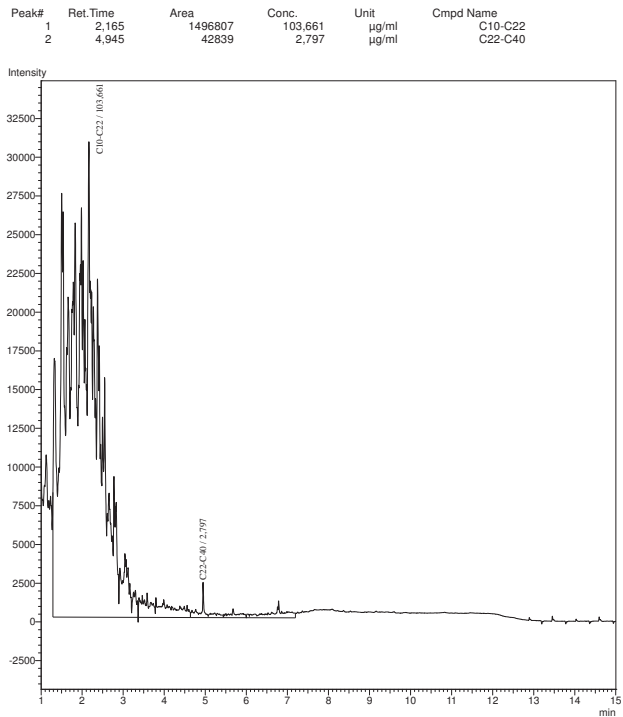
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 16:25:44
User Name : Admin
Vial# : 17
Sample Name : 71692
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\017_71692_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

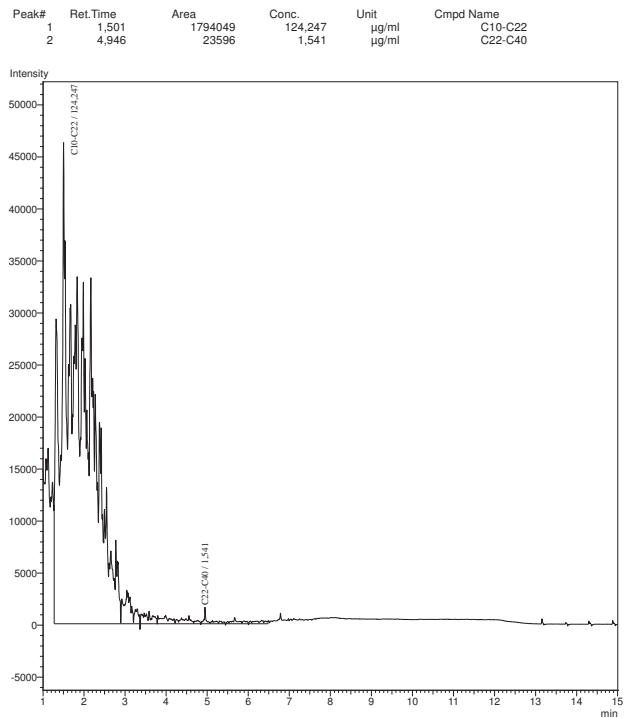
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 16:46:40
User Name : Admin
Vial# : 18
Sample Name : 71693
Sample ID : 018
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\018_71693_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

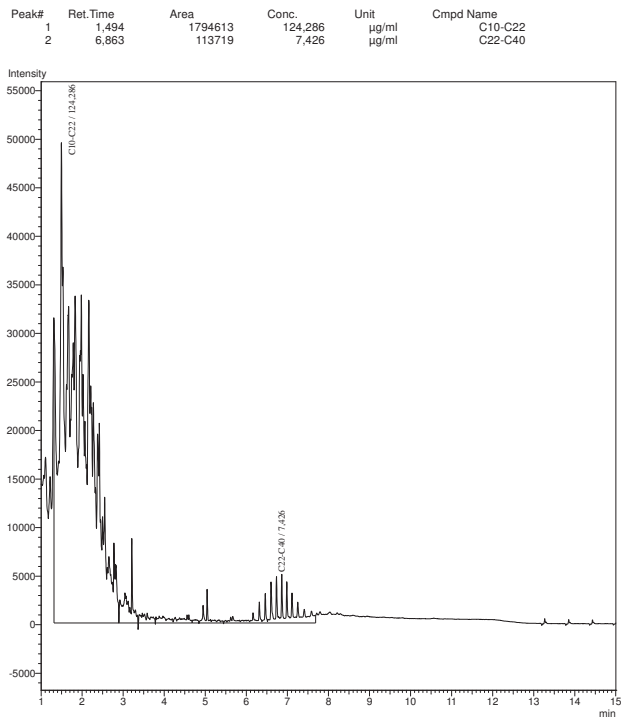
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 17:07:37
User Name : Admin
Vial# : 19
Sample Name : 71694
Sample ID : 019
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\019_71694_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

Group Results - Channel 1

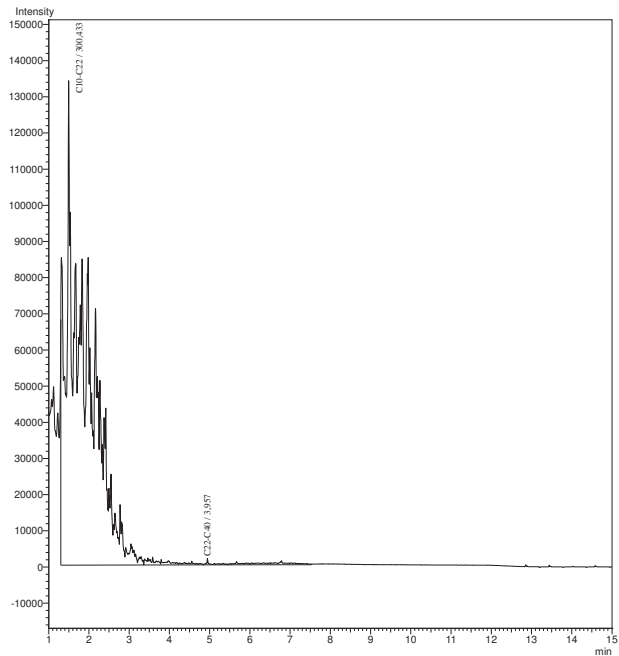


Analysis Date & Time : 14.12.2018 17:28:34
User Name : Admin
Vial# : 20
Sample Name : 71695
Sample ID : 020
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\020_71695_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,496	4338070	300,433	µg/ml	C10-C22
2	4,945	60602	3,957	µg/ml	C22-C40

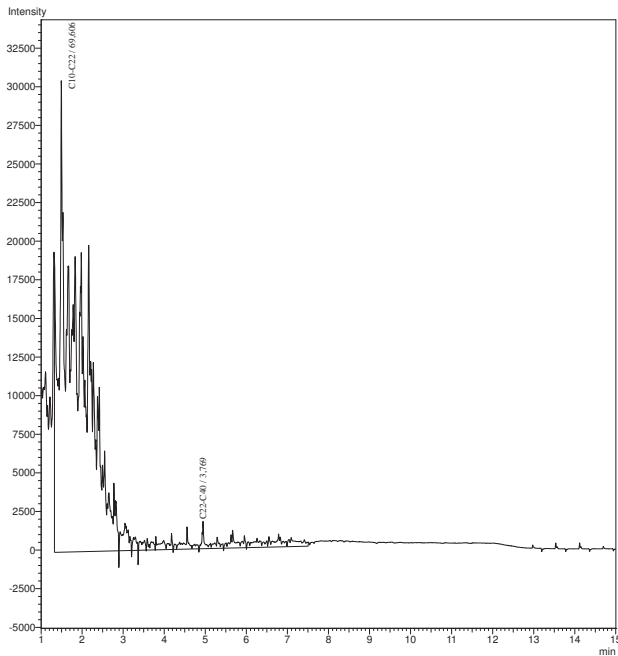


Analysis Date & Time : 14.12.2018 17:49:31
User Name : Admin
Vial# : 21
Sample Name : 71696
Sample ID : 021
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\021_71696_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,492	1005068	69,606	µg/ml	C10-C22
2	4,944	57713	3,769	µg/ml	C22-C40

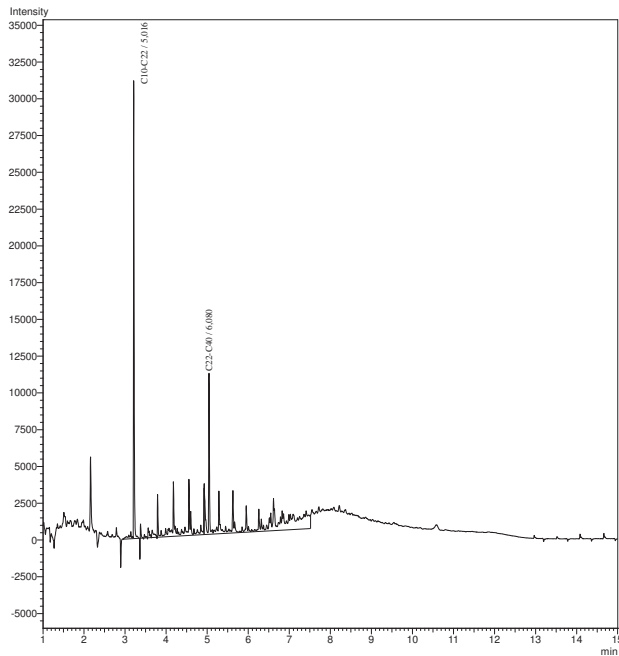


Analysis Date & Time : 14.12.2018 18:10:31
User Name : Admin
Vial# : 22
Sample Name : 71697
Sample ID : 022
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\022_71697_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

Group Results - Channel 1

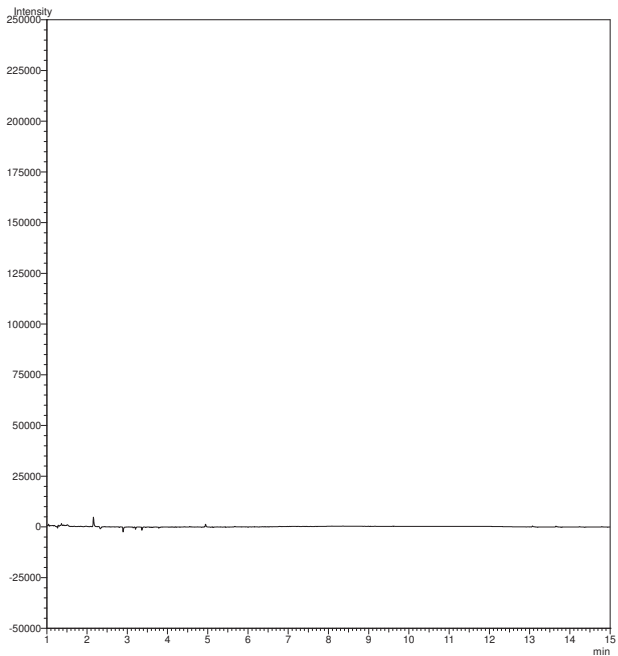
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,210	72422	5,016	µg/ml	C10-C22
2	5,044	93109	6,080	µg/ml	C22-C40



Analysis Date & Time : 14.12.2018 18:31:31
User Name : Admin
Vial# : 23
Sample Name : 71698
Sample ID : 023
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181214\\023_71698_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181214\\rr_h53.gcm

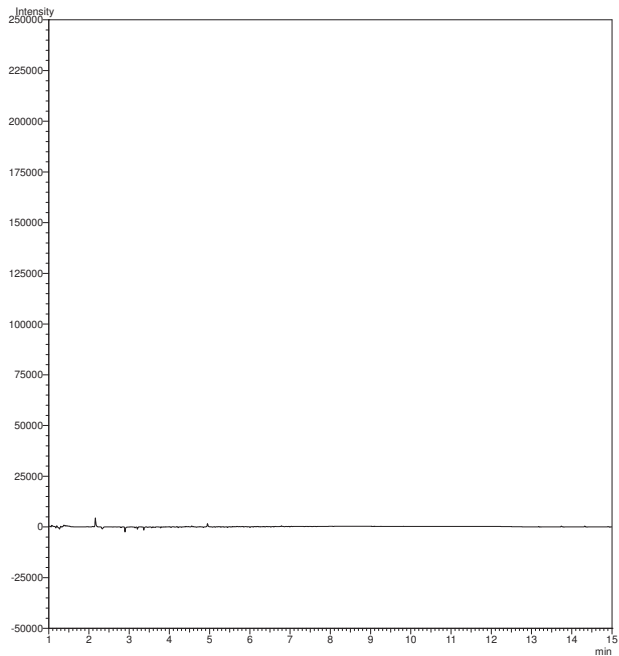
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 18:52:28
User Name : Admin
Vial# : 24
Sample Name : 71699
Sample ID : 024
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181214\024_71699_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181214\rr_h53.gcm

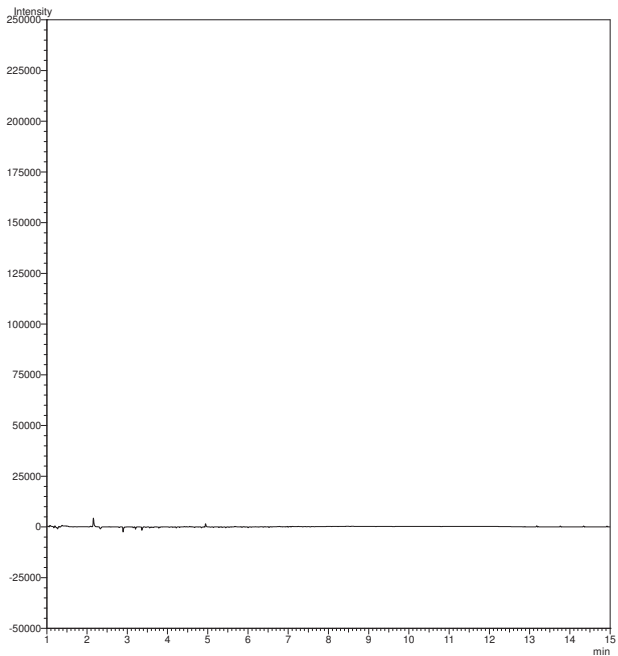
Group Results - Channel 1



Analysis Date & Time : 14.12.2018 19:13:24
User Name : Admin
Vial# : 25
Sample Name : 71700
Sample ID : 025
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181214\025_71700_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181214\rr_h53.gcm

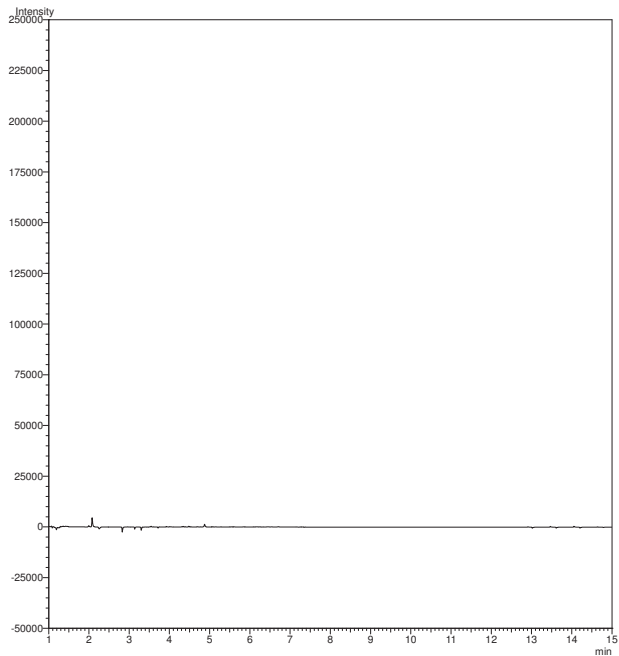
Group Results - Channel 1



Analysis Date & Time : 17.12.2018 16:37:54
User Name : Admin
Vial# : 10
Sample Name : 71701
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181217\010_71701_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181217\rr_h53.gcm

Group Results - Channel 1

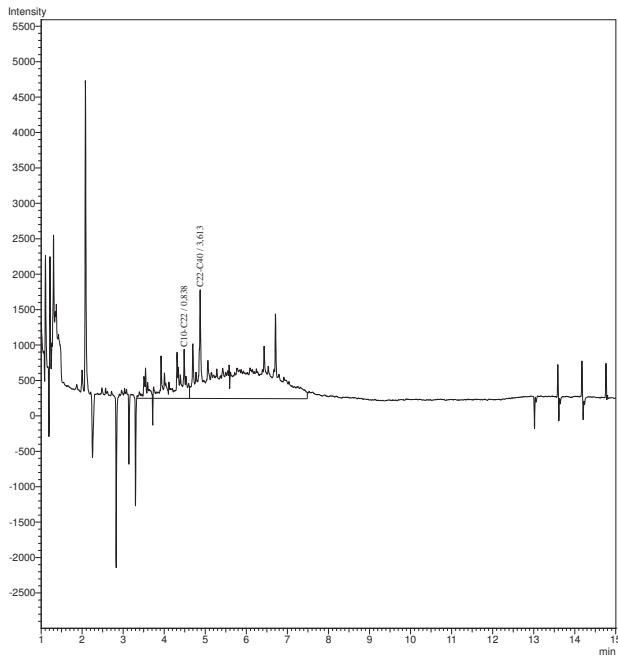


Analysis Date & Time : 17.12.2018 16:58:50
User Name : Admin
Vial# : 11
Sample Name : 71702
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :

Data Name : \\FI3\root_d\2018\fi3_181217\011_71702_001.gcd
Method Name : \\FI3\root_d\2018\fi3_181217\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.484	12514	0.838	µg/ml	C10-C22
2	4.874	55603	3.613	µg/ml	C22-C40

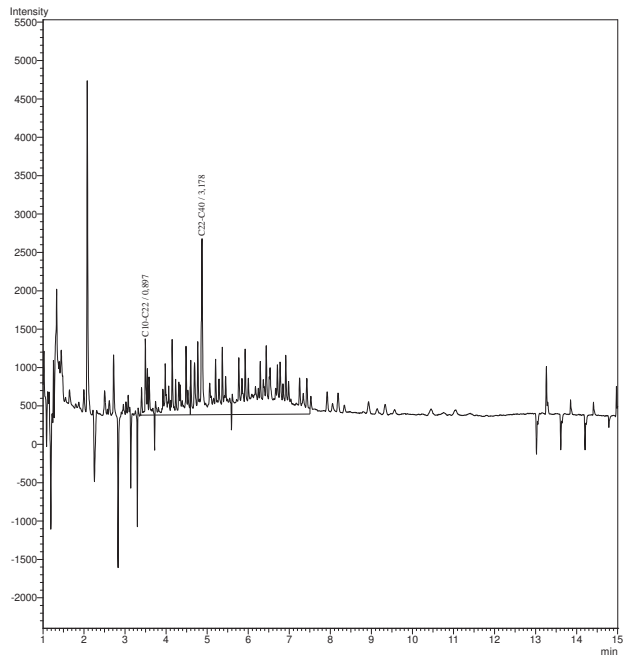


Analysis Date & Time : 17.12.2018 17:19:49
User Name : Admin
Vial# : 12
Sample Name : 71703
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181217\012_71703_001.gcd
Method Name : \\f3\root_d\2018\fi3_181217\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,493	13390	0,897	µg/ml	C10-C22
2	4,873	48900	3,178	µg/ml	C22-C40

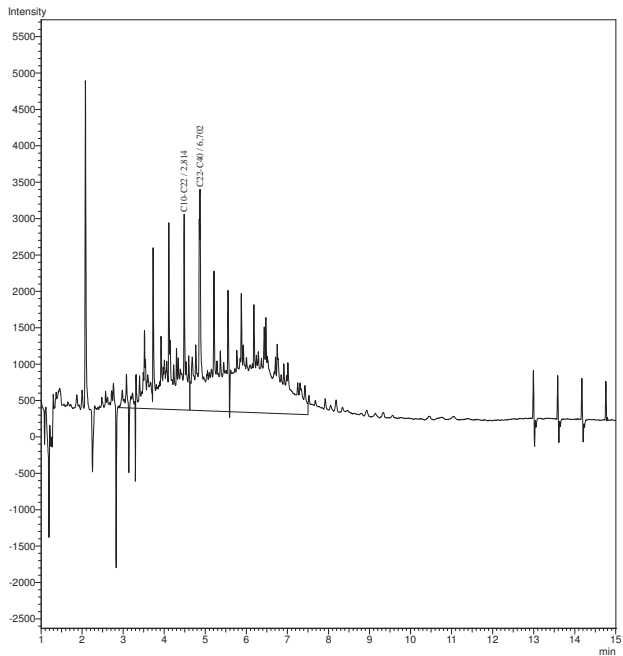


Analysis Date & Time : 17.12.2018 17:40:46
User Name : Admin
Vial# : 13
Sample Name : 71704
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181217\013_71704_001.gcd
Method Name : \\f3\root_d\2018\fi3_181217\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,485	42023	2,814	µg/ml	C10-C22
2	4,871	103137	6,702	µg/ml	C22-C40

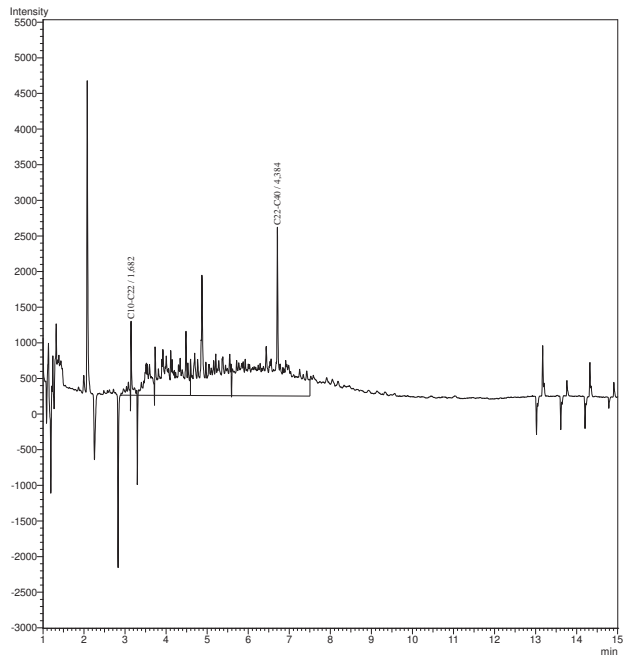


Analysis Date & Time : 17.12.2018 18:01:42
User Name : Admin
Vial# : 14
Sample Name : 71705
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181217\014_71705_001.gcd
Method Name : \\f3\root_d\2018\fi3_181217\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,144	25125	1,682	µg/ml	C10-C22
2	6,710	67460	4,384	µg/ml	C22-C40

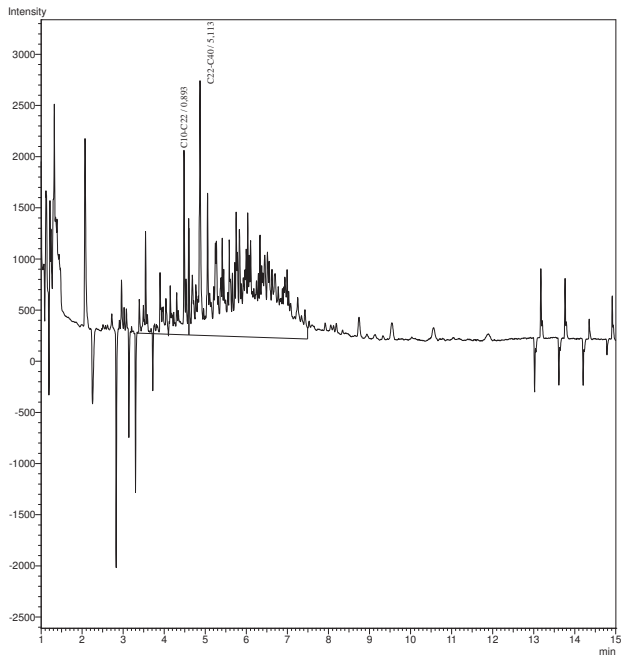


Analysis Date & Time : 17.12.2018 18:22:41
User Name : Admin
Vial# : 16
Sample Name : 71706
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181217\016_71706_001.gcd
Method Name : \\f3\root_d\2018\fi3_181217\rr_h53.gcm

Group Results - Channel 1

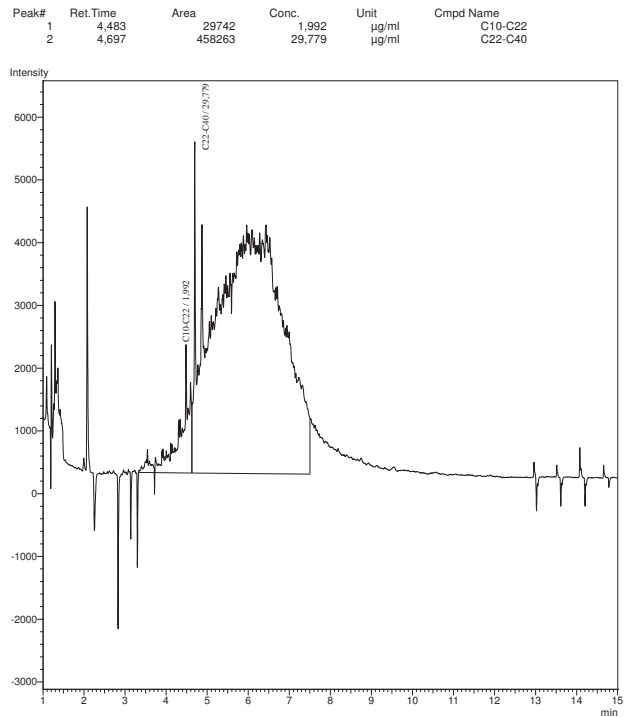
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,482	13330	0,893	µg/ml	C10-C22
2	4,871	78691	5,113	µg/ml	C22-C40



Analysis Date & Time : 17.12.2018 19:04:37
User Name : Admin
Vial# : 17
Sample Name : 71707
Sample ID : 017
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI3\\root_d\\2018\\fi3_181217\\017_71707_001.gcd
Method Name : \\FI3\\root_d\\2018\\fi3_181217\\rr_h53.gcm

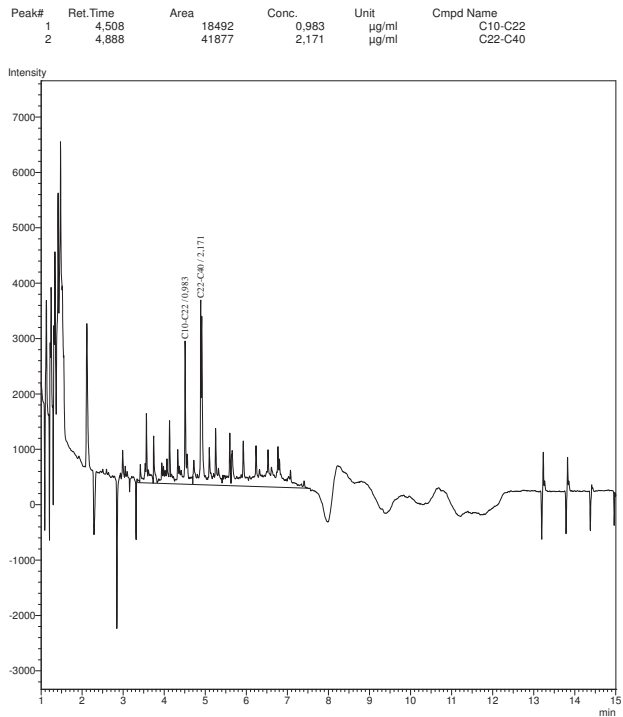
Group Results - Channel 1



Analysis Date & Time : 17.12.2018 16:39:18
User Name : Admin
Vial# : 8
Sample Name : 71708
Sample ID : 008
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\008_71708_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

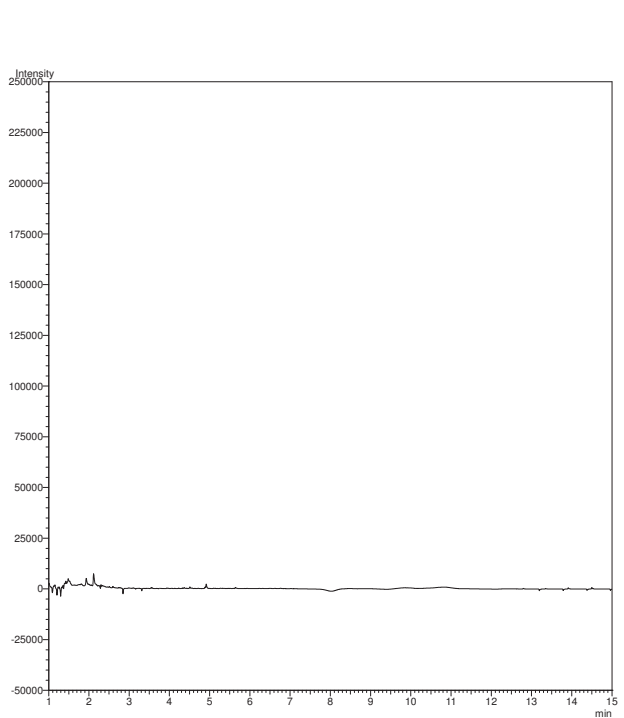
Group Results - Channel 1



Analysis Date & Time : 17.12.2018 17:00:09
User Name : Admin
Vial# : 9
Sample Name : 71709
Sample ID : 009
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\009_71709_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

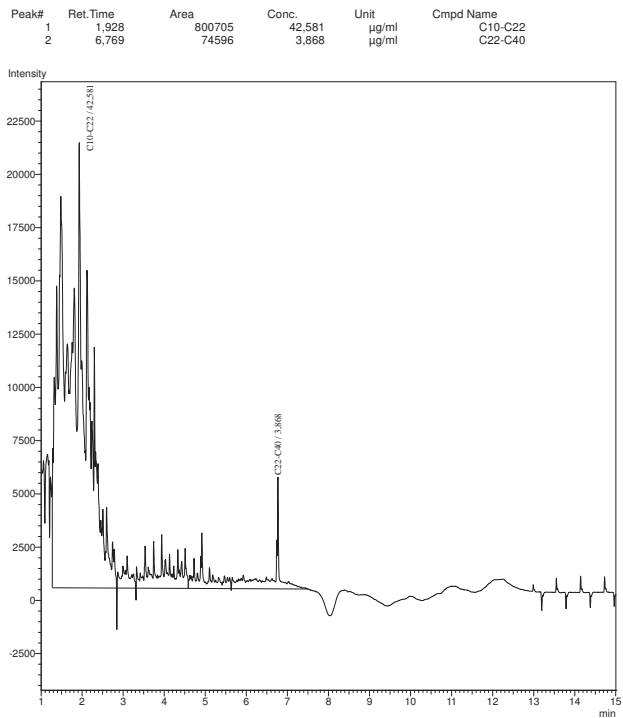
Group Results - Channel 1



Analysis Date & Time : 17.12.2018 17:21:04
User Name : Admin
Vial# : 10
Sample Name : 71710
Sample ID : 010
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\010_71710_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

Group Results - Channel 1

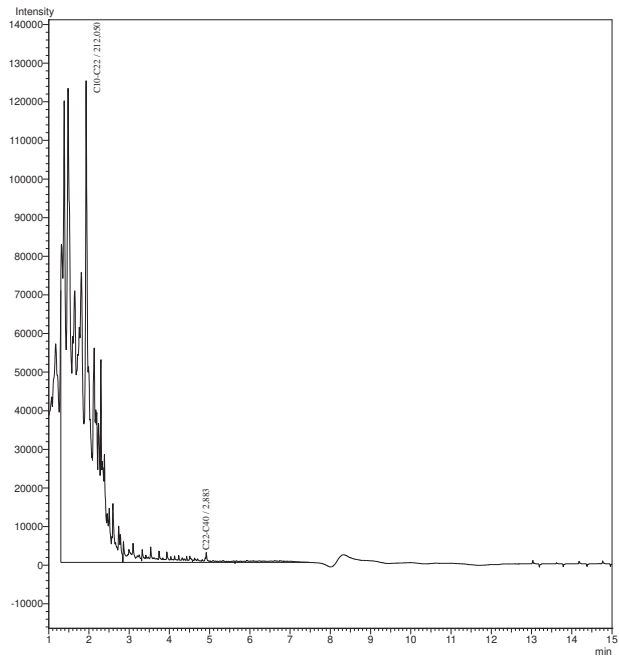


Analysis Date & Time : 17.12.2018 17:42:00
User Name : Admin
Vial# : 11
Sample Name : 71711
Sample ID : 011
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\011_71711_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,930	3987499	212,050	µg/ml	C10-C22
2	4,915	55602	2,883	µg/ml	C22-C40

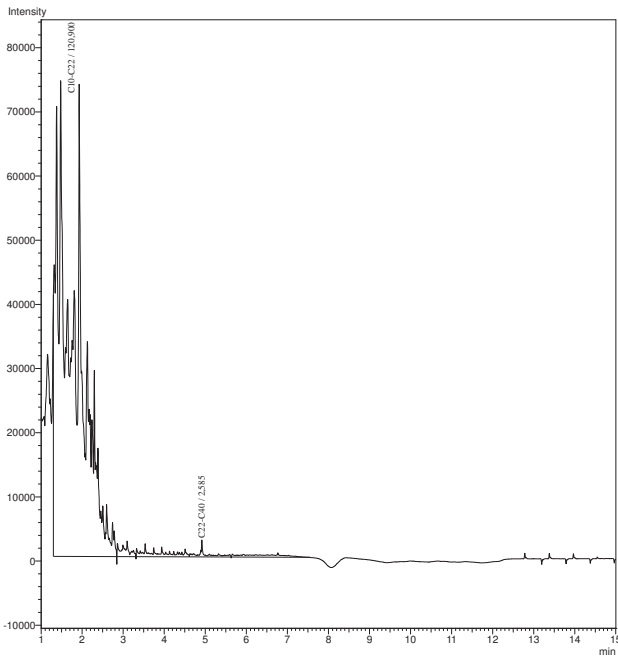


Analysis Date & Time : 17.12.2018 18:02:53
User Name : Admin
Vial# : 12
Sample Name : 71712
Sample ID : 012
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\012_71712_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,477	2273456	120,900	µg/ml	C10-C22
2	4,915	49849	2,585	µg/ml	C22-C40

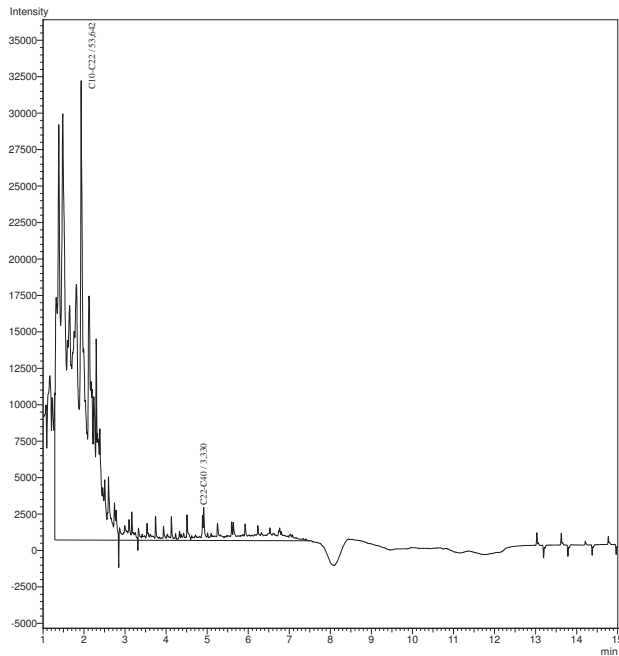


Analysis Date & Time : 17.12.2018 18:23:48
User Name : Admin
Vial# : 13
Sample Name : 71713
Sample ID : 013
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\013_71713_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

Group Results - Channel 1

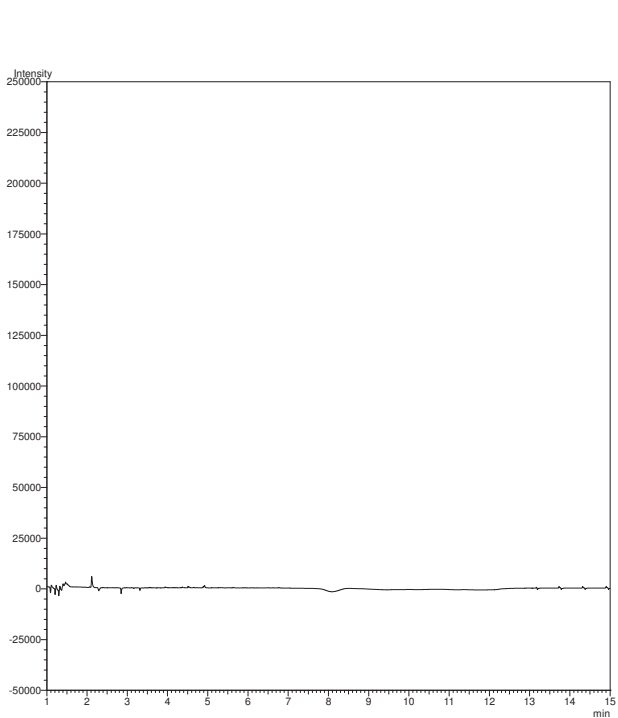
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,930	1008701	53,642	µg/ml	C10-C22
2	4,915	64221	3,330	µg/ml	C22-C40



Analysis Date & Time : 17.12.2018 18:44:39
User Name : Admin
Vial# : 14
Sample Name : 71714
Sample ID : 014
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\FI2\\root_d\\2018\\fi2_181217\\014_71714_01.gcd
Method Name : \\FI2\\root_d\\2018\\fi2_181217\\rr_h53.gcm

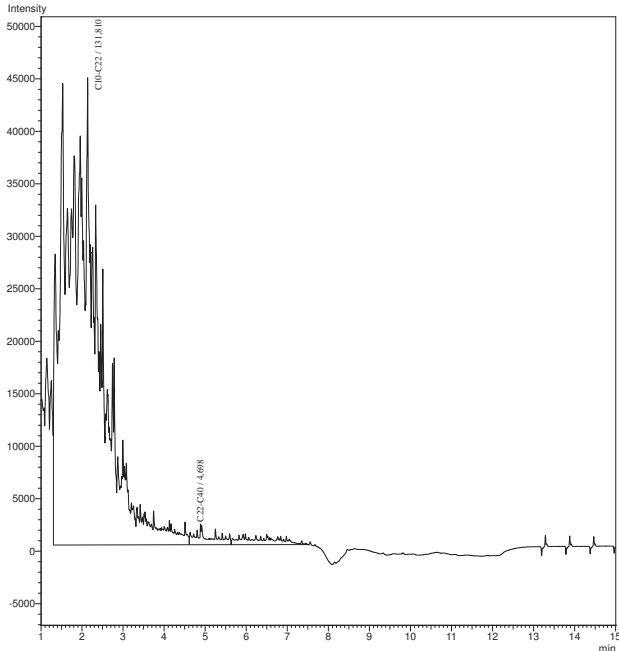
Group Results - Channel 1



Analysis Date & Time : 17.12.2018 19:26:26
User Name : Admin
Vial# : 16
Sample Name : 71715
Sample ID : 016
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID2root_d\\2018\\fid_181217\\016_71715_01.gcd
Method Name : \\FID2root_d\\2018\\fid_181217\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,136	2478611	131,810	µg/ml	C10-C22
2	4,887	90608	4,698	µg/ml	C22-C40



Laboratorien Dr. Döring Halferwende 12 28357 Bremen

GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33

10178 BERLIN

12. Dezember 2018

PRÜFBERICHT 07121851

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 07.12.2018
Probentransport: durch Laboratorien Dr. Döring GmbH am 07.12.2018
Probeneingang: 07.12.2018
Prüfzeitraum: 07.12.2018 – 12.12.2018
Probennummer: 70181 - 70192 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:

Analysenbefunde: Seite 2
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01
Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

Prüfbericht 07121851.doc

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28357 bremen
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ust-ldnr de 170 350 601

gmh, hrb 15929
gl dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com



Labornummer	70181	70182	70183	70184
Probenbezeichnung	45-1	45-2	45-3	45-4
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	86,6	89,1	80,0	87,1
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	33
Kohlenwasserstoffe, n-C ₁₀₋₄₀	6	8	8	36
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	0,01
Xylol	< 0,01	< 0,01	< 0,01	0,04
Trimethylbenzole	< 0,01	0,03	< 0,01	0,84
Summe BTX	n.n.	0,03	n.n.	0,89

Labornummer	70185	70186	70187	70188
Probenbezeichnung	45-7	45-9	45-11	45-13
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	87,1	96,1	95,3	95,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylol	0,02	< 0,01	< 0,01	< 0,01
Trimethylbenzole	0,12	0,01	< 0,01	< 0,01
Summe BTX	0,14	0,01	n.n.	n.n.

Labornummer	70189	70190	70191	70192
Probenbezeichnung	45-14	45-15	45-16	45-17
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	90,8	86,6	82,8	82,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	0,16	0,21
Xylol	< 0,01	< 0,01	0,38	0,60
Trimethylbenzole	< 0,01	< 0,01	0,10	0,12
Summe BTX	n.n.	n.n.	0,64	0,93

Prüfbericht 07121851.doc

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30455 hannover
fon 05 11 26 13 99 64
fax 05 11 2 62 67 90

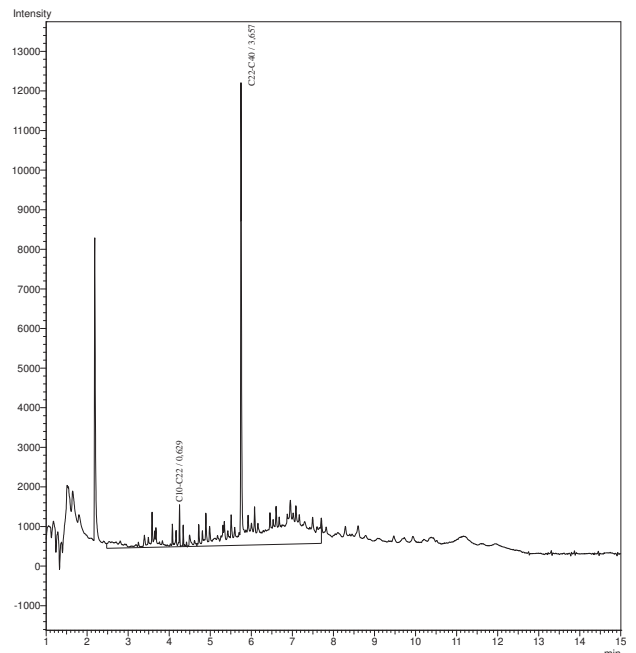
barkhaus neelmeyer ag
swift neeldes22
de95290200000000024000
ust-ldnr de 170 350 601

gmh, hrb 15929
gl dr. joachim döring
st-nr 60/120/08234
www.dr-doering.com

Analysis Date & Time : 08.12.2018 01:18:21
User Name : Admin
Vial# : 49
Sample Name : 70181
Sample ID : 049
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\FID1root_d\\2018\\fid_181207\\049_70181_001.gcd
Method Name : \\FID1root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,251	14604	0,629	µg/ml	C10-C22
2	5,748	87605	3,657	µg/ml	C22-C40

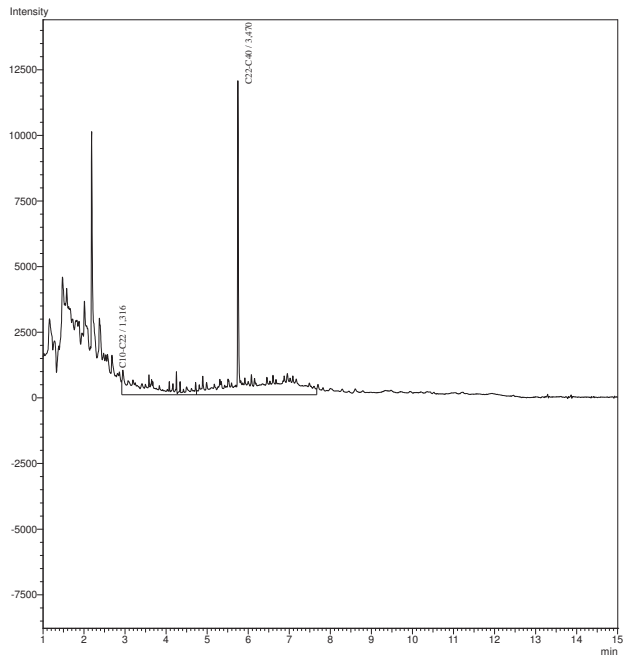


Analysis Date & Time : 08.12.2018 01:39:32
User Name : Admin
Vial# : 50
Sample Name : 70182
Sample ID : 050
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fid\\root_d\\2018\\fid_181207\\050_70182_001.gcd
Method Name : \\FID\\root_d\\2018\\fid_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,946	30541	1,316	µg/ml	C10-C22
2	5,748	83139	3,470	µg/ml	C22-C40

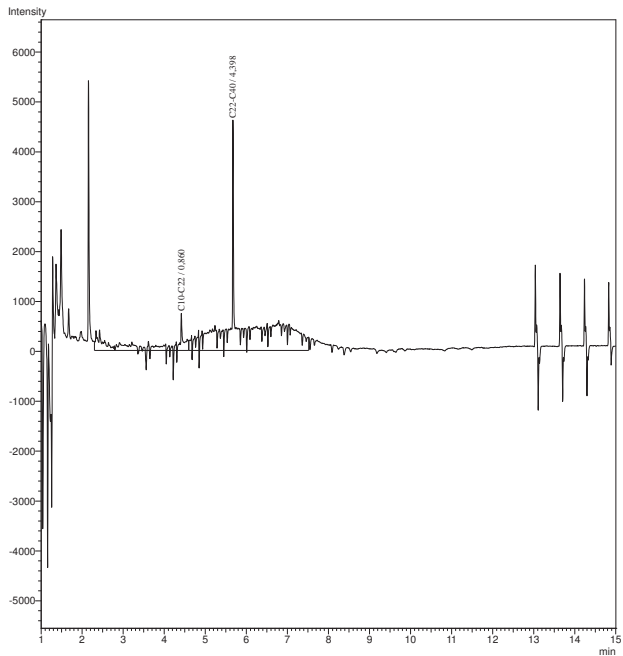


Analysis Date & Time : 07.12.2018 20:52:15
User Name : Admin
Vial# : 32
Sample Name : 70183
Sample ID : 032
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\\root_d\\2018\\fi3_181207\\032_70183_001.gcd
Method Name : \\fi3\\root_d\\2018\\fi3_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,415	13042	0,860	µg/ml	C10-C22
2	5,673	69664	4,398	µg/ml	C22-C40

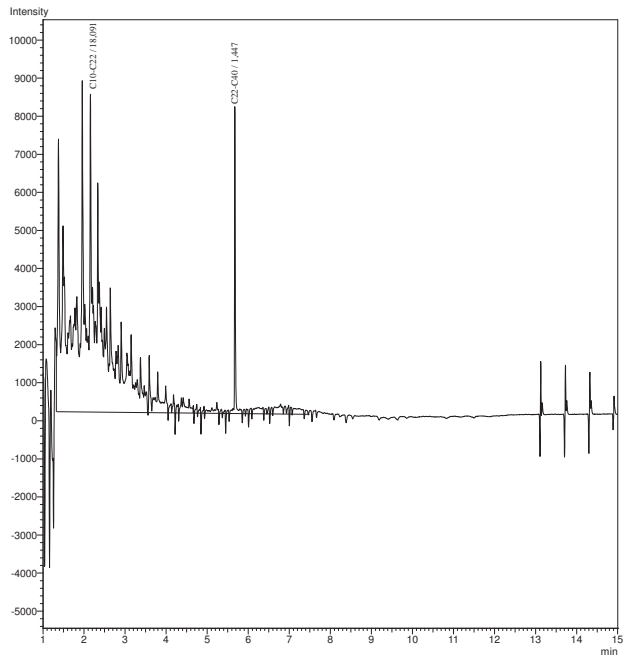


Analysis Date & Time : 07.12.2018 21:13:15
User Name : Admin
Vial# : 33
Sample Name : 70184
Sample ID : 033
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\\root_d\\2018\\fi3_181207\\033_70184_001.gcd
Method Name : \\fi3\\root_d\\2018\\fi3_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,957	274276	18,091	µg/ml	C10-C22
2	5,674	22912	1,447	µg/ml	C22-C40

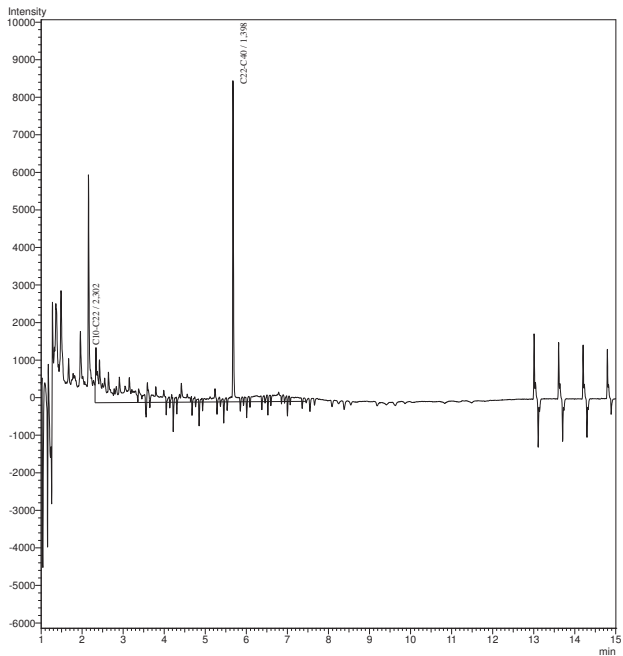


Analysis Date & Time : 07.12.2018 21:34:13
User Name : Admin
Vial# : 34
Sample Name : 70185
Sample ID : 034
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\\root_d\\2018\\fi3_181207\\034_70185_001.gcd
Method Name : \\fi3\\root_d\\2018\\fi3_181207\\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,336	34904	2,302	µg/ml	C10-C22
2	5,675	22144	1,398	µg/ml	C22-C40

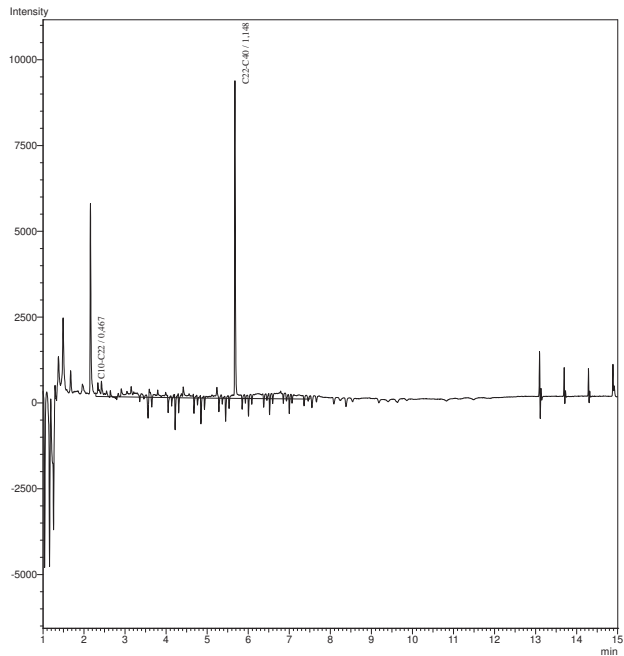


Analysis Date & Time : 07.12.2018 21:55:12
User Name : Admin
Vial# : 35
Sample Name : 70186
Sample ID : 035
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181207\035_70186_001.gcd
Method Name : \\f3\root_d\2018\fi3_181207\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,424	7082	0,467	µg/ml	C10-C22
2	5,675	18183	1,148	µg/ml	C22-C40

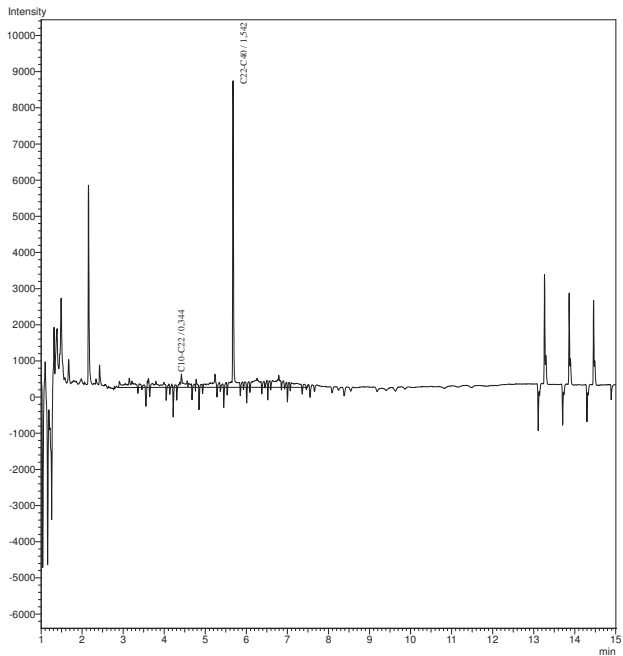


Analysis Date & Time : 07.12.2018 22:16:11
User Name : Admin
Vial# : 36
Sample Name : 70187
Sample ID : 036
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181207\036_70187_001.gcd
Method Name : \\f3\root_d\2018\fi3_181207\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,417	5216	0,344	µg/ml	C10-C22
2	5,675	24417	1,542	µg/ml	C22-C40

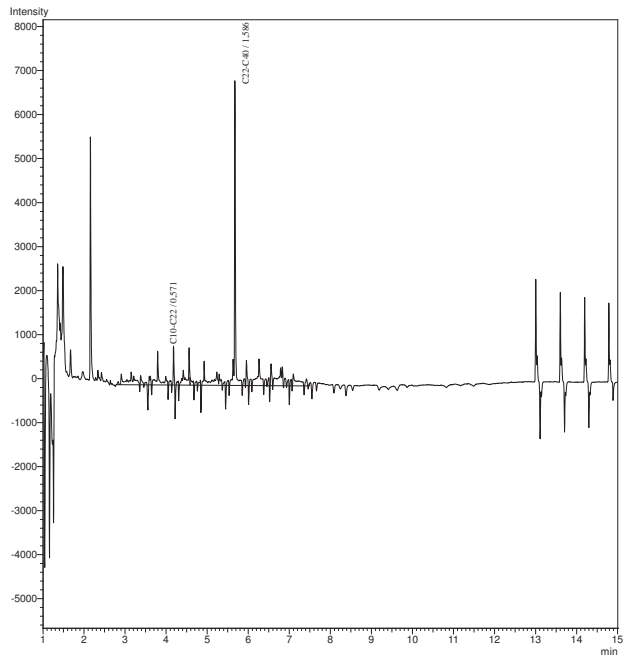


Analysis Date & Time : 07.12.2018 22:37:11
User Name : Admin
Vial# : 37
Sample Name : 70188
Sample ID : 037
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181207\037_70188_001.gcd
Method Name : \\f3\root_d\2018\fi3_181207\rr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,180	8655	0,571	µg/ml	C10-C22
2	5,675	25127	1,586	µg/ml	C22-C40

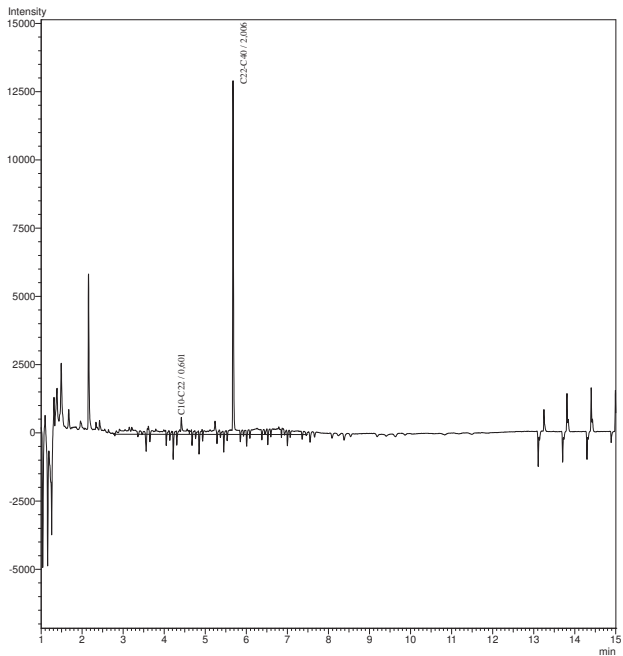


Analysis Date & Time : 07.12.2018 22:58:11
User Name : Admin
Vial# : 38
Sample Name : 70189
Sample ID : 038
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\f3\root_d\2018\fi3_181207\038_70189_001.gcd
Method Name : \\f3\root_d\2018\fi3_181207\rr_h53.gcm

Group Results - Channel 1

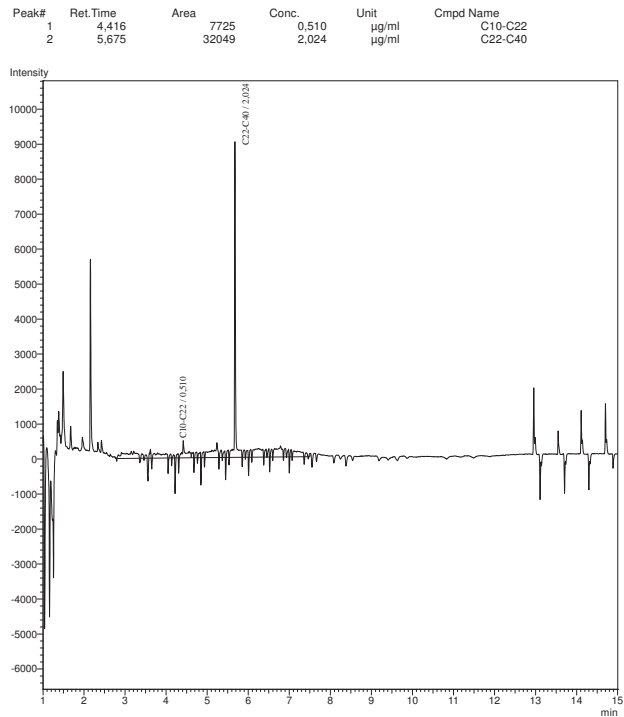
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,415	9108	0,601	µg/ml	C10-C22
2	5,675	31775	2,006	µg/ml	C22-C40



Analysis Date & Time : 07.12.2018 23:19:09
User Name : Admin
Vial# : 39
Sample Name : 70190
Sample ID : 039
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181207\039_70190_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181207\rr_h53.gcm

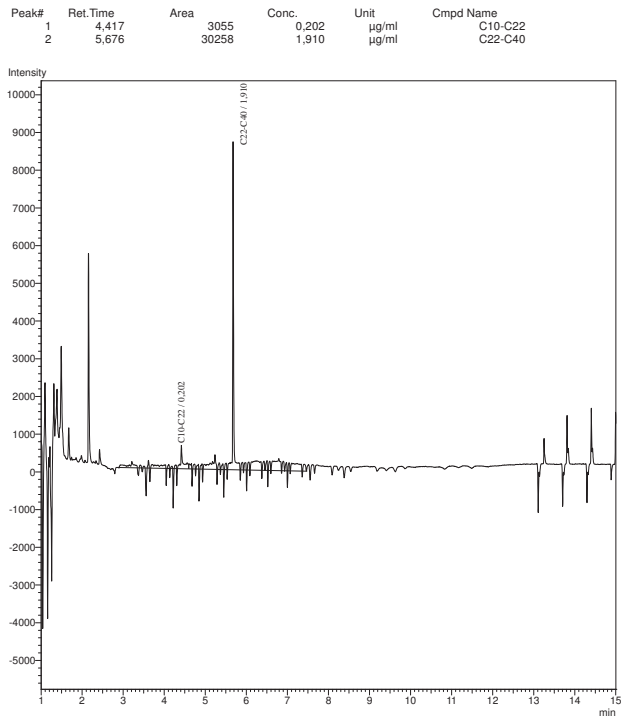
Group Results - Channel 1



Analysis Date & Time : 08.12.2018 00:01:05
User Name : Admin
Vial# : 41
Sample Name : 70191
Sample ID : 041
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181207\041_70191_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181207\rr_h53.gcm

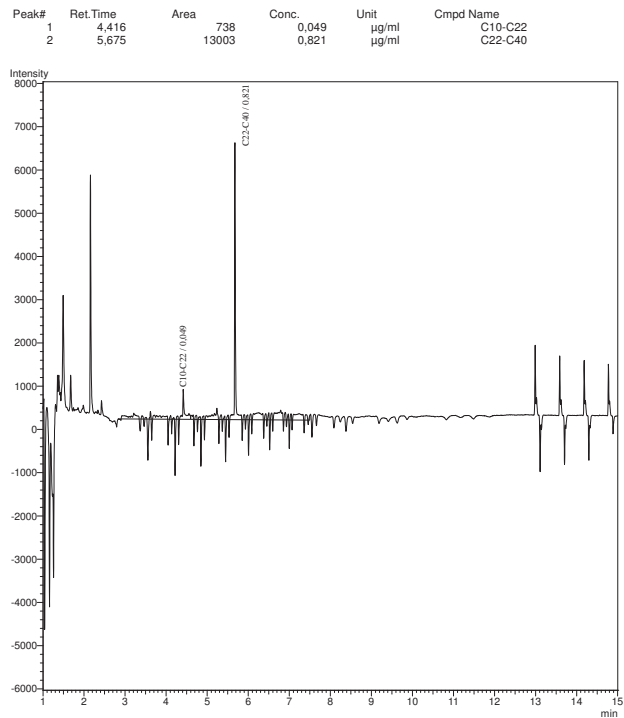
Group Results - Channel 1



Analysis Date & Time : 08.12.2018 03:09:49
User Name : Admin
Vial# : 50
Sample Name : 70192
Sample ID : 050
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :

Data Name : \\fi3\root_d\2018\fi3_181207\050_70192_001.gcd
Method Name : \\fi3\root_d\2018\fi3_181207\rr_h53.gcm

Group Results - Channel 1



Laboratorien Dr. Döring Halferwende 12 28357 Bremen
GESA
Gesellschaft zur Entwicklung und Sanierung von Altstandorten
Karl-Liebknecht-Straße 33
10178 BERLIN

28. Dezember 2018

PRÜFBERICHT 21121822

Projekt: Tanklager Bremen Farge
Projektbezeichnung: Verladebahnhof II, Phase IIb, DU Boden, ergänzende Untersuchung
Probenahme: durch Auftraggeber am 20.12.2018
Probentransport: durch Laboratorien Dr. Döring GmbH am 21.12.2018
Probeneingang: 21.12.2018
Prüfzeitraum: 21.12.2018 – 28.12.2018
Probennummer: 73420 - 73468 / 18
Probenmaterial: Boden
Verpackung: PE - Dose
Bemerkungen: Eilanalytik, Chromatogramme im Anhang
Sonstiges:
Analysenbefunde: Seite 2 - 6
Messverfahren: Trockenmasse DIN EN 14346: 2007-03
BTEX DIN 38407-9 (F9): 1991-05
Kohlenwasserstoffe DIN EN 14039: 2005-01
Qualitätskontrolle:

Dr. Jens Krause
(stellv. Laborleiter)

Dr. Joachim Döring
(Geschäftsführer)

Labornummer	73420	73421	73422	73423
Probenbezeichnung	46-1	46-4	46-5	46-8
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,1	93,3	95,7	94,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	12
Kohlenwasserstoffe, n-C ₁₀₋₄₀	13	< 5	< 5	28
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	< 0,01
Summe BTEX	n.n.	n.n.	n.n.	n.n.

Labornummer	73424	73425	73426	73427
Probenbezeichnung	46-9	46-10	46-11	46-12
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	97,3	95,6	95,1	95,0
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	6	6	< 5	8
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	< 0,01
Summe BTEX	n.n.	n.n.	n.n.	n.n.

Labornummer	73428	73429	73430	73431
Probenbezeichnung	46-13	46-14	46-15	46-16
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,3	91,9	86,9	81,7
Kohlenwasserstoffe, n-C ₁₀₋₂₂	32	320	110	9
Kohlenwasserstoffe, n-C ₁₀₋₄₀	39	350	110	11
Benzol	< 0,01	3,80	< 0,01	0,02
Toluol	0,03	10,3	1,18	0,76
Ethylbenzol	0,17	29,2	2,11	0,58
Xylole	0,83	25,9	9,72	2,23
Trimethylbenzole	2,89	31,8	8,55	1,45
Summe BTEX	3,92	101,00	21,56	5,04

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Labornummer	73432	73433	73434	73435
Probenbezeichnung	46-17	47-1	47-4	47-8
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	78,9	95,4	96,3	93,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	13
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	56	8	16
Benzol	0,01	< 0,01	< 0,01	< 0,01
Toluol	0,43	< 0,01	< 0,01	< 0,01
Ethylbenzol	0,15	< 0,01	< 0,01	< 0,01
Xylole	0,60	< 0,01	< 0,01	< 0,01
Trimethylbenzole	0,07	< 0,01	< 0,01	< 0,01
Summe BTEX	1,26	n.n.	n.n.	n.n.

Labornummer	73436	73437	73438	73439
Probenbezeichnung	47-9	47-10	47-11	47-12
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	93,7	93,3	93,6	93,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	220	210	200	260
Kohlenwasserstoffe, n-C ₁₀₋₄₀	230	220	210	260
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	0,09	1,12
Ethylbenzol	0,01	0,26	1,51	3,77
Xylole	0,09	1,14	7,82	20,2
Trimethylbenzole	2,72	7,88	21,2	25,3
Summe BTEX	2,82	9,28	30,62	50,39

Labornummer	73440	73441	73442	73443
Probenbezeichnung	47-13	47-14	47-15	47-16
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,8	92,0	87,5	84,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	130	1.600	820	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	140	1.700	860	< 5
Benzol	< 0,01	0,30	0,12	< 0,01
Toluol	0,39	54,8	17,4	0,14
Ethylbenzol	1,45	64,7	21,0	0,20
Xylole	7,79	288	94,4	0,84
Trimethylbenzole	13,4	132	42,1	0,43
Summe BTEX	23,03	539,80	175,02	1,61

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Labornummer	73444	73445	73446	73447
Probenbezeichnung	47-17	51-1	51-3	51-4
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	83,6	84,8	92,4	94,4
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	14	660	78
Kohlenwasserstoffe, n-C ₁₀₋₄₀	22	15	680	81
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	0,03	< 0,01
Xylole	0,04	< 0,01	0,30	< 0,01
Trimethylbenzole	< 0,01	< 0,01	5,52	0,37
Summe BTEX	0,04	n.n.	5,85	0,37

Labornummer	73448	73449	73450	73451
Probenbezeichnung	51-6	51-8	51-9	51-11
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,4	95,4	80,3	94,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	17	17	21	5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	18	19	24	6
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	0,10	0,16	< 0,01
Summe BTEX	n.n.	0,10	0,16	n.n.

Labornummer	73452	73453	73454	73455
Probenbezeichnung	51-12	51-13	51-14	51-15
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	94,5	95,0	86,1	87,7
Kohlenwasserstoffe, n-C ₁₀₋₂₂	7	45	23	26
Kohlenwasserstoffe, n-C ₁₀₋₄₀	8	50	24	28
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	0,37	0,18	0,31
Xylole	< 0,01	1,90	0,96	1,53
Trimethylbenzole	0,07	6,85	1,77	2,81
Summe BTEX	0,07	9,12	2,91	4,65

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Labornummer	73456	73457	73458	73459
Probenbezeichnung	51-16	51-17	52-1	52-4
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	77,7	80,3	93,4	96,2
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	<	8
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	0,02	< 0,01
Ethylbenzol	0,01	< 0,01	0,01	< 0,01
Xylole	0,08	0,03	0,07	< 0,01
Trimethylbenzole	0,02	< 0,01	0,02	< 0,01
Summe BTEX	0,11	0,03	0,12	n.n.

Labornummer	73460	73461	73462	73463
Probenbezeichnung	52-7	52-9	52-11	52-12
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	96,1	96,0	95,9	95,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5	< 5	< 5	11
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	< 0,01
Summe BTEX	n.n.	n.n.	n.n.	n.n.

Labornummer	73464	73465	73466	73467
Probenbezeichnung	52-13	52-14	52-15	52-16
Dimension	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]	[mg/kg TS]
Trockenmasse [%]	95,5	88,8	85,6	79,9
Kohlenwasserstoffe, n-C ₁₀₋₂₂	7	< 5	< 5	< 5
Kohlenwasserstoffe, n-C ₁₀₋₄₀	11	8	< 5	< 5
Benzol	< 0,01	< 0,01	< 0,01	< 0,01
Toluol	< 0,01	< 0,01	< 0,01	< 0,01
Ethylbenzol	< 0,01	< 0,01	< 0,01	< 0,01
Xylole	< 0,01	< 0,01	< 0,01	< 0,01
Trimethylbenzole	< 0,01	< 0,01	< 0,01	< 0,01
Summe BTEX	n.n.	n.n.	n.n.	n.n.

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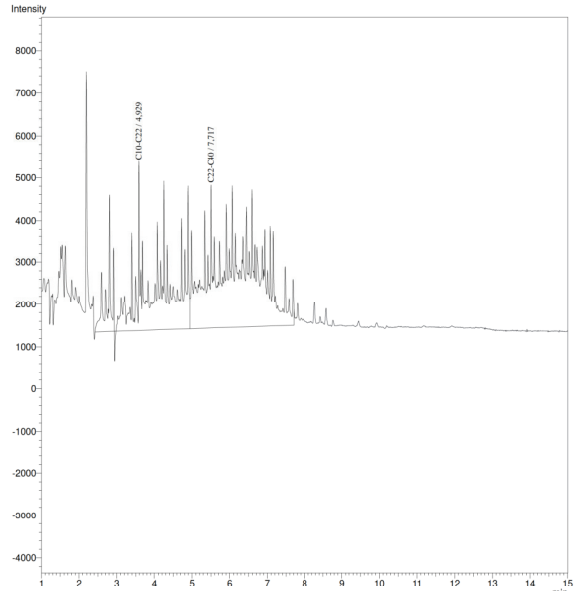
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Labornummer	73468			
Probenbezeichnung	52-17			
Dimension	(mg/kg TS)			
Trockenmasse [%]	79,7			
Kohlenwasserstoffe, n-C ₁₀₋₂₂	< 5			
Kohlenwasserstoffe, n-C ₁₀₋₄₀	< 5			
Benzol	< 0,01			
Toluol	< 0,01			
Ethylbenzol	< 0,01			
Xylole	< 0,01			
Trimethylbenzole	< 0,01			
Summe BTEX	n.n.			

Analysis Date & Time : 22.12.2018 13:14:21
 User Name : Admin
 Vial# : 80
 Sample Name : 73420
 Sample ID : 080
 Sample Type : Unknown
 Injection Volume : 1,00
 ISTD Amount :
 Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\080_73420_001.gcd
 Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,586	116287	4,929	µg/ml	C10-C22
2	5,502	190429	7,717	µg/ml	C22-C40



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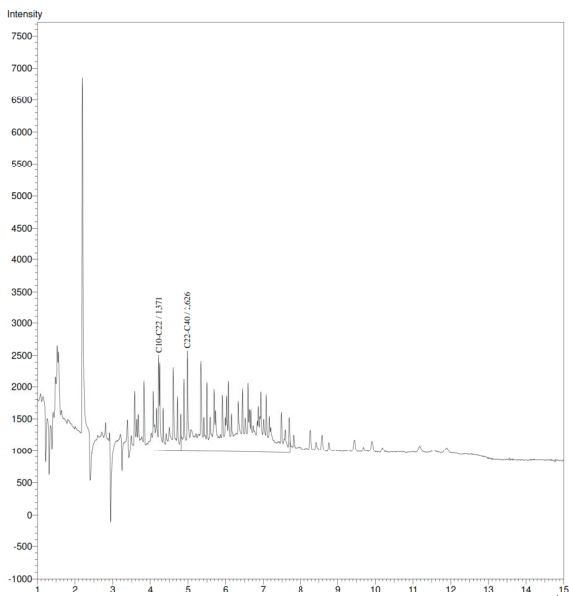
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Analysis Date & Time : 22.12.2018 13:35:29
 User Name : Admin
 Vial# : 81
 Sample Name : 73421
 Sample ID : 081
 Sample Type : Unknown
 Injection Volume : 1,00
 ISTD Amount :
 Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\081_73421_001.gcd
 Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

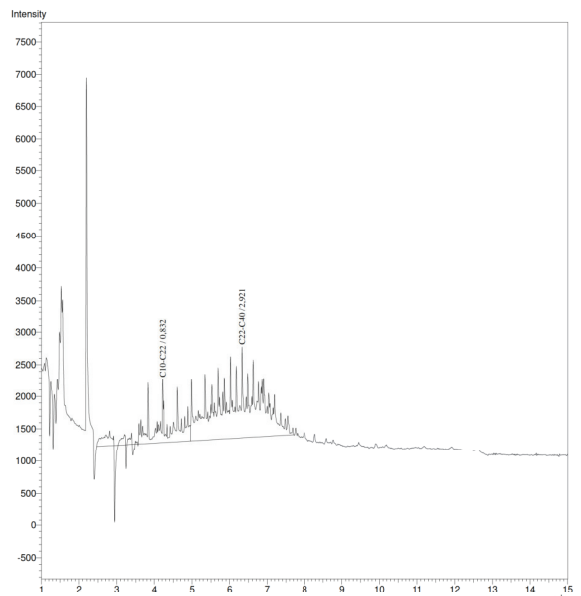
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,220	32344	1,371	µg/ml	C10-C22
2	4,982	64807	2,626	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 13:56:32
 User Name : Admin
 Vial# : 82
 Sample Name : 73422
 Sample ID : 082
 Sample Type : Unknown
 Injection Volume : 1,00
 ISTD Amount :
 Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\082_73422_001.gcd
 Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

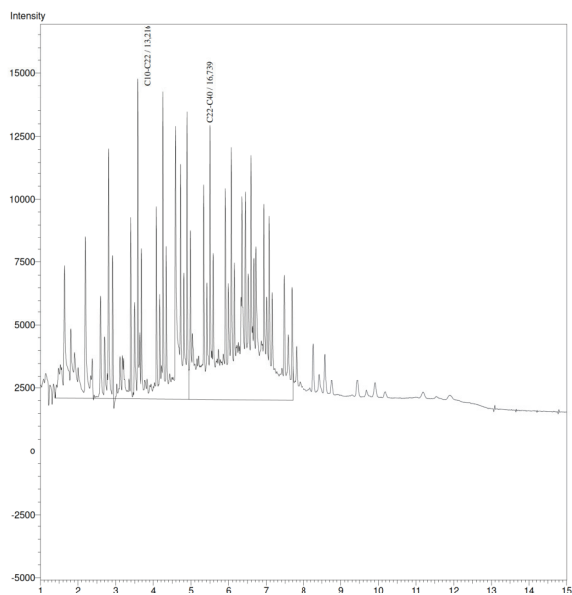
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,221	19635	0,832	µg/ml	C10-C22
2	6,329	72075	2,921	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 14:17:36
User Name : Admin
Vial# : 83
Sample Name : 73423
Sample ID : 083
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\083_73423_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

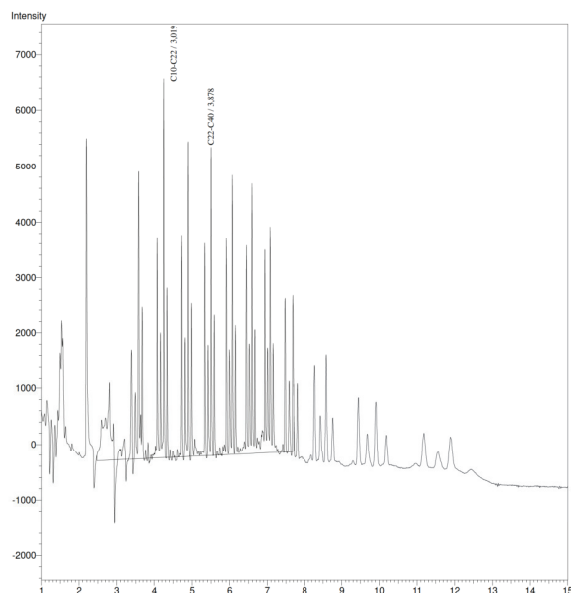
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,584	311824	13,216	µg/ml	C10-C22
2	5,501	413049	16,739	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 14:36:42
User Name : Admin
Vial# : 84
Sample Name : 73424
Sample ID : 084
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\084_73424_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

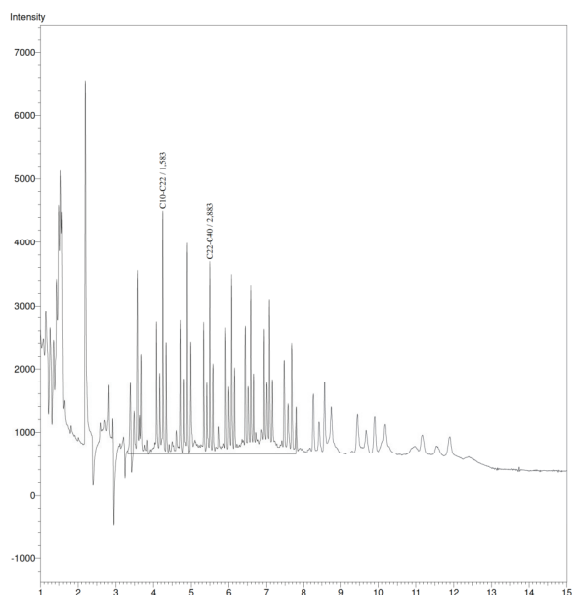
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,250	71222	3,019	µg/ml	C10-C22
2	5,503	95690	3,878	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 14:59:45
User Name : Admin
Vial# : 85
Sample Name : 73425
Sample ID : 085
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\085_73425_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

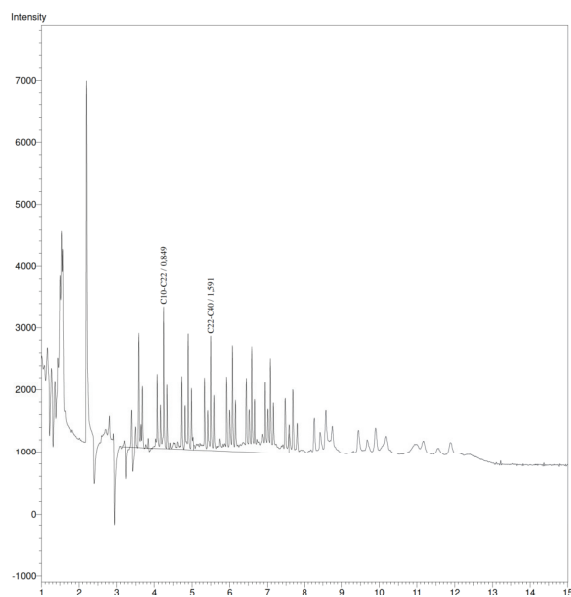
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,249	37362	1,583	µg/ml	C10-C22
2	5,501	71130	2,883	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 15:20:47
User Name : Admin
Vial# : 86
Sample Name : 73426
Sample ID : 086
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\086_73426_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

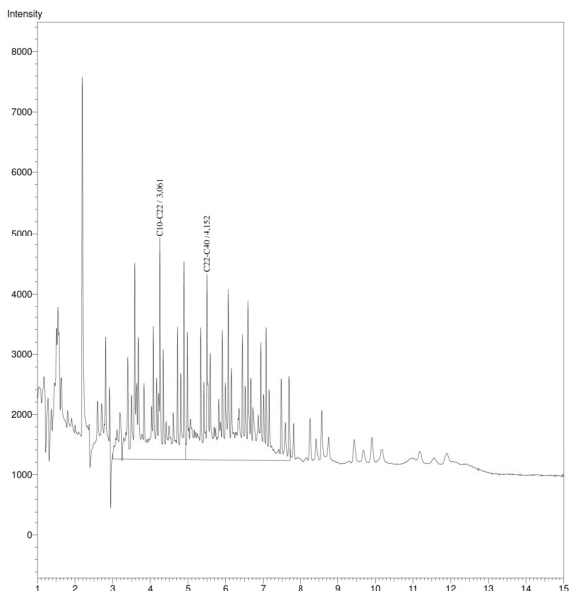
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,249	20038	0,849	µg/ml	C10-C22
2	5,502	39261	1,591	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 15:41:50
User Name : Admin
Vial# : 87
Sample Name : 73427
Sample ID : 087
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\087_73427_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

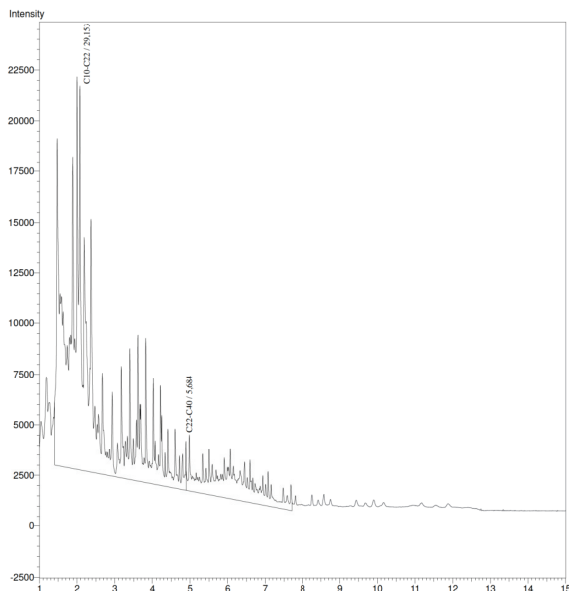
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,250	72217	3,061	µg/ml	C10-C22
2	5,501	102456	4,152	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 16:02:53
User Name : Admin
Vial# : 88
Sample Name : 73428
Sample ID : 088
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\088_73428_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

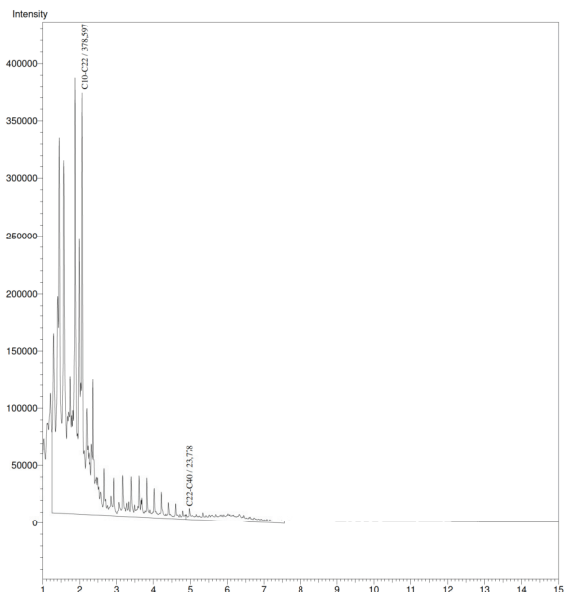
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,998	687868	29,153	µg/ml	C10-C22
2	4,980	140245	5,684	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 16:23:59
User Name : Admin
Vial# : 89
Sample Name : 73429
Sample ID : 089
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\089_73429_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

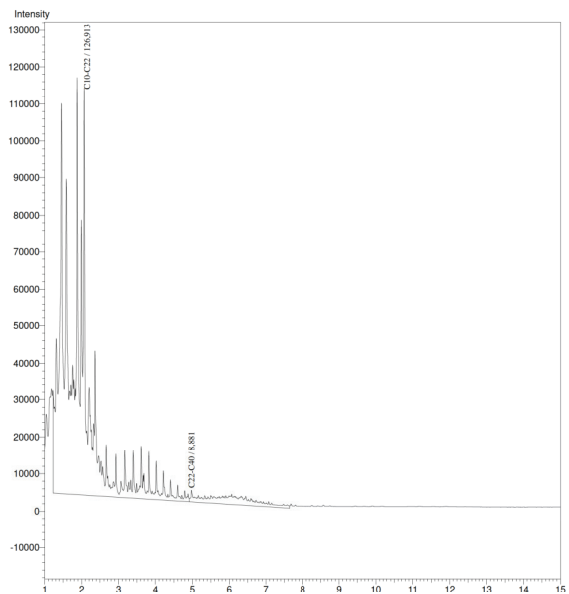
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,877	8932890	378,597	µg/ml	C10-C22
2	4,978	586717	23,778	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 17:06:06
User Name : Admin
Vial# : 91
Sample Name : 73430
Sample ID : 091
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\091_73430_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

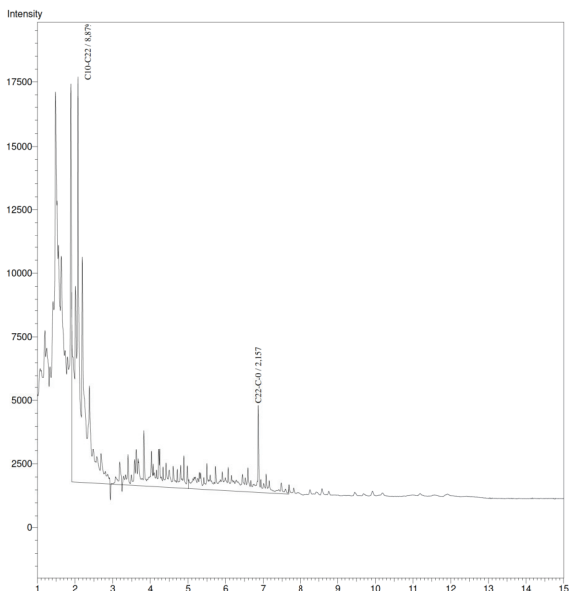
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,880	2994467	126,913	µg/ml	C10-C22
2	4,979	219138	8,881	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 17:27:09
User Name : Admin
Vial# : 92
Sample Name : 73431
Sample ID : 092
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\092_73431_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

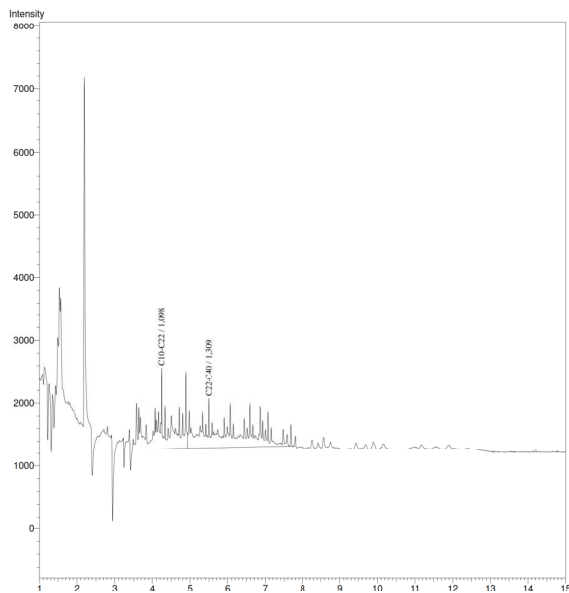
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,075	209488	8,879	µg/ml	C10-C22
2	6,864	53224	2,157	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 17:48:09
User Name : Admin
Vial# : 93
Sample Name : 73432
Sample ID : 093
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\093_73432_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

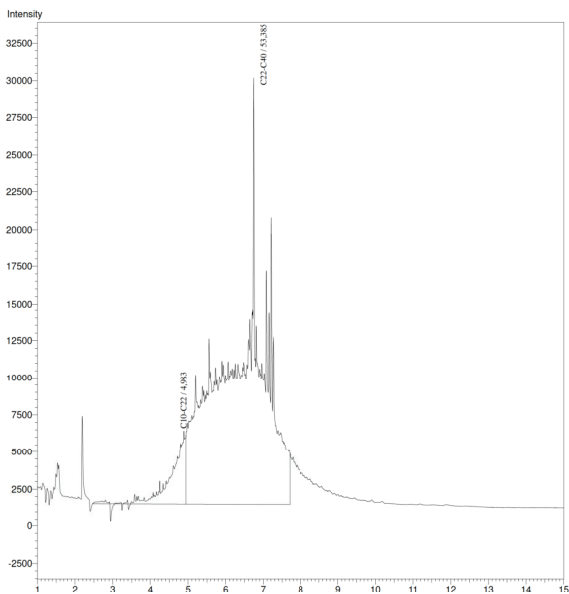
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,245	25897	1,098	µg/ml	C10-C22
2	5,498	32312	1,309	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 18:09:10
User Name : Admin
Vial# : 94
Sample Name : 73433
Sample ID : 094
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\094_73433_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

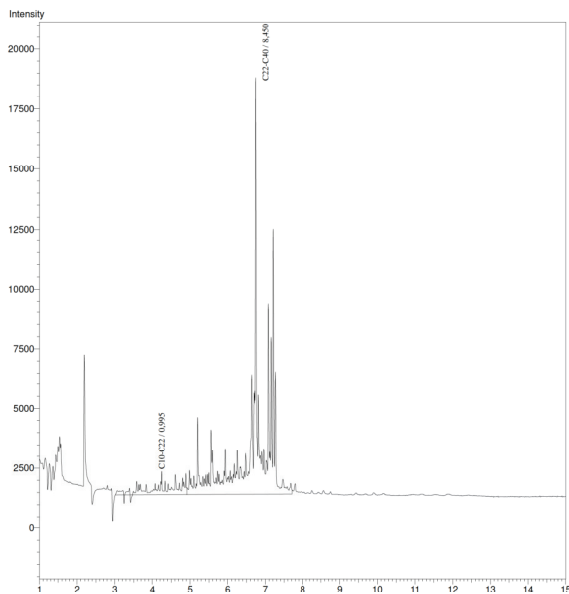
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,888	117580	4,983	µg/ml	C10-C22
2	6,742	1317294	53,385	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 18:30:10
User Name : Admin
Vial# : 95
Sample Name : 73434
Sample ID : 095
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\095_73434_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

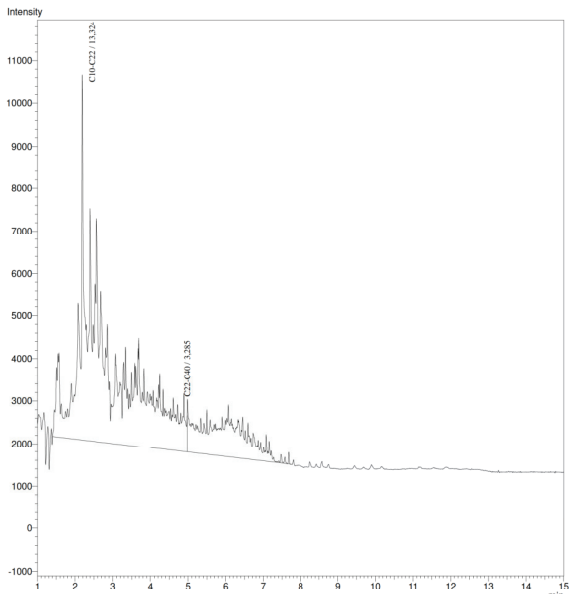
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,246	23469	0,995	µg/ml	C10-C22
2	6,742	208498	8,450	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 18:51:13
User Name : Admin
Vial# : 96
Sample Name : 73435
Sample ID : 096
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\096_73435_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

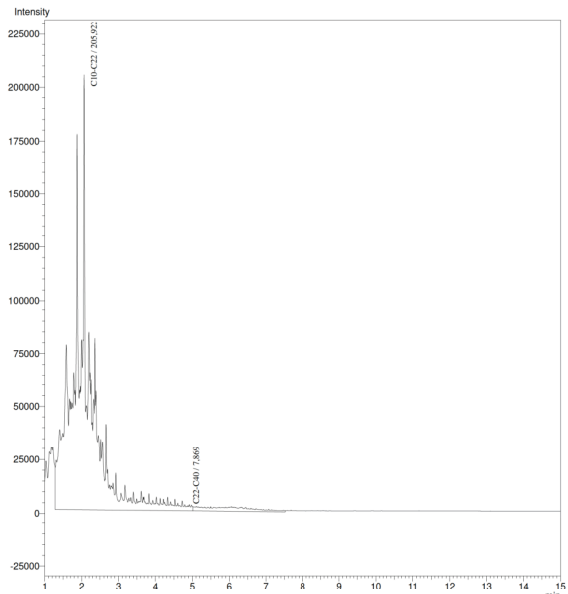
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,190	314381	13,324	µg/ml	C10-C22
2	4,983	81050	3,285	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 19:12:28
User Name : Admin
Vial# : 97
Sample Name : 73436
Sample ID : 097
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\097_73436_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

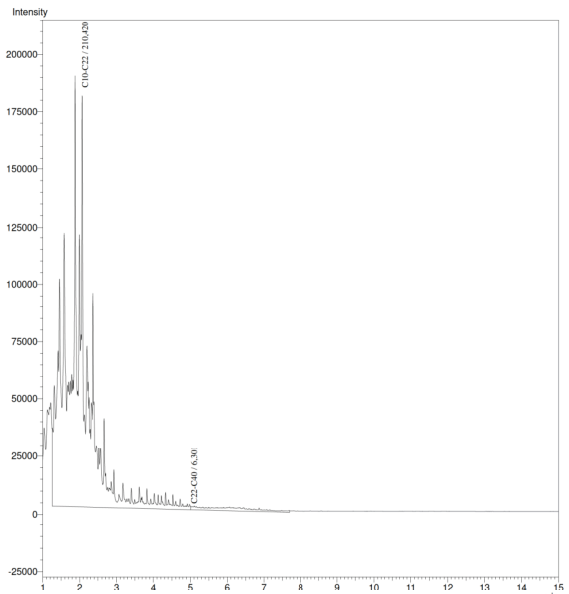
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,068	4858668	205,922	µg/ml	C10-C22
2	5,109	194175	7,869	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 19:33:30
User Name : Admin
Vial# : 98
Sample Name : 73437
Sample ID : 098
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\098_73437_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

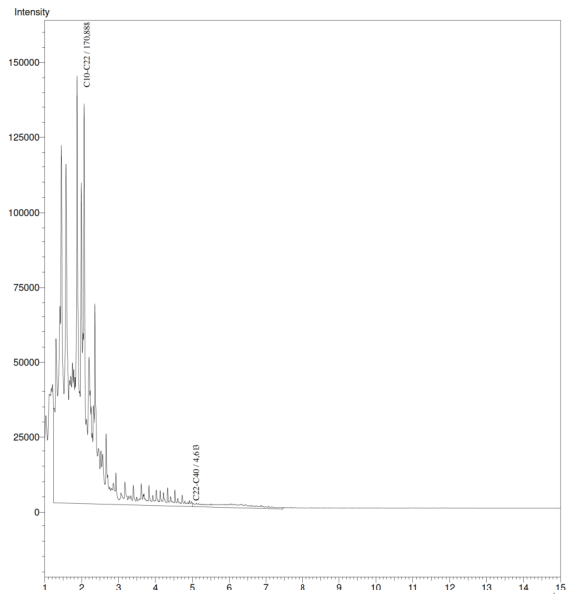
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,879	4964798	210,420	µg/ml	C10-C22
2	5,108	155479	6,301	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 19:54:36
User Name : Admin
Vial# : 99
Sample Name : 73438
Sample ID : 099
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\099_73438_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

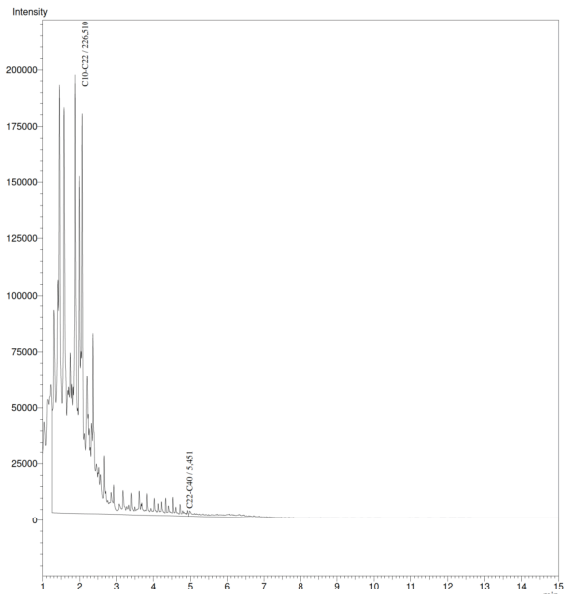
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,878	4032062	170,888	µg/ml	C10-C22
2	5,108	113827	4,613	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 20:15:39
User Name : Admin
Vial# : 100
Sample Name : 73439
Sample ID : 100
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\100_73439_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

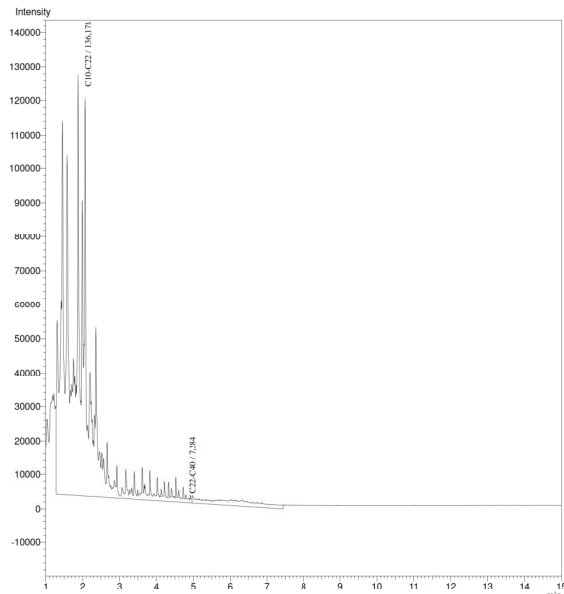
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,879	5344441	226,510	µg/ml	C10-C22
2	4,981	134508	5,451	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 22:01:09
User Name : Admin
Vial# : 105
Sample Name : 73440
Sample ID : 105
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\105_73440_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

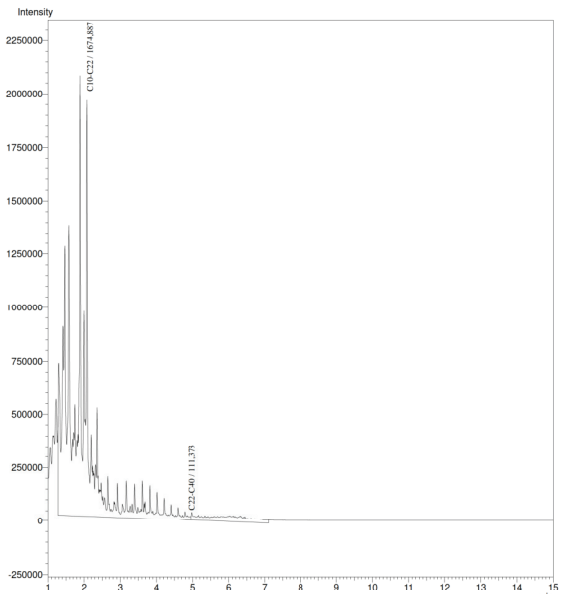
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,879	3213080	136,178	µg/ml	C10-C22
2	4,979	179738	7,284	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 22:22:12
User Name : Admin
Vial# : 106
Sample Name : 73441
Sample ID : 106
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\106_73441_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

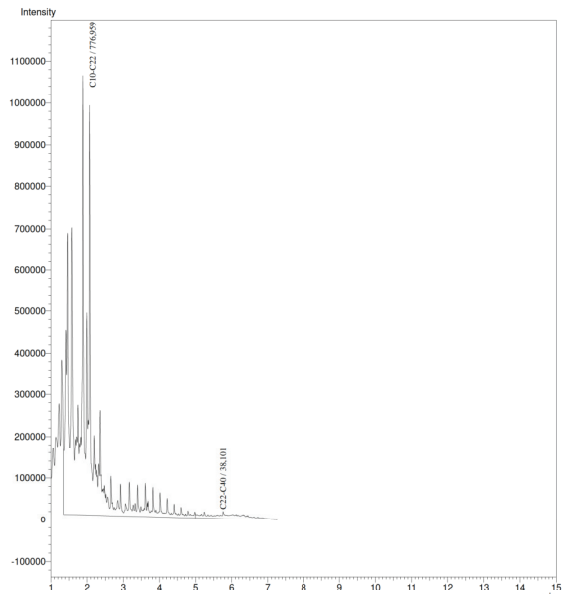
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,889	39518502	1674,887	µg/ml	C10-C22
2	4,977	2748154	111,373	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 22:43:14
User Name : Admin
Vial# : 107
Sample Name : 73442
Sample ID : 107
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\107_73442_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

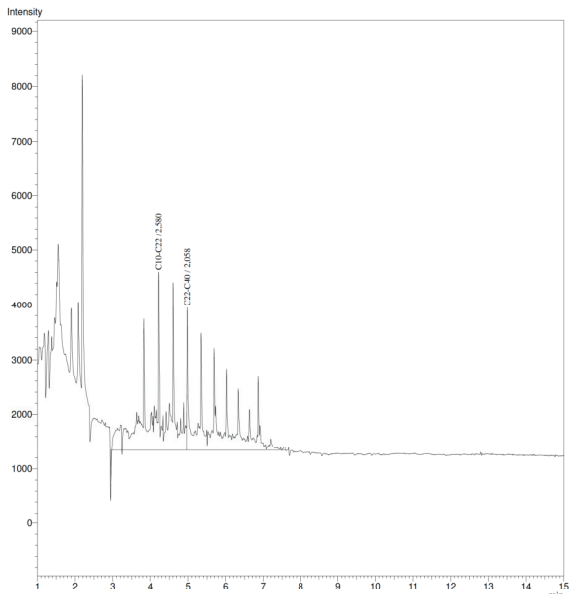
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1,885	18332132	778,959	µg/ml	C10-C22
2	5,762	940160	38,101	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 23:04:24
User Name : Admin
Vial# : 108
Sample Name : 73443
Sample ID : 108
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\108_73443_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

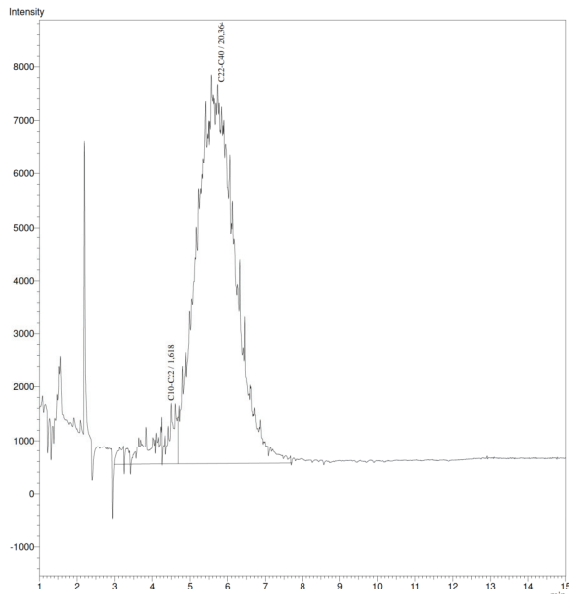
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.219	60873	2,580	µg/ml	C10-C22
2	4.980	50783	2,058	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 23:25:27
User Name : Admin
Vial# : 109
Sample Name : 73444
Sample ID : 109
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\109_73444_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

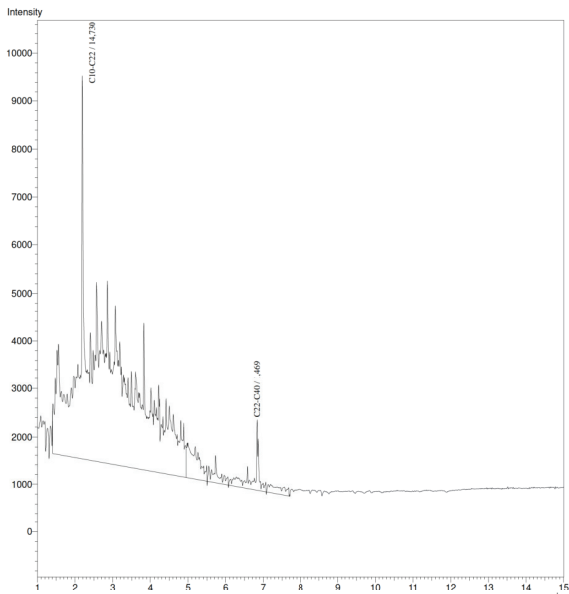
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.497	38179	1,618	µg/ml	C10-C22
2	5.564	502475	20,364	µg/ml	C22-C40



Analysis Date & Time : 22.12.2018 23:46:27
User Name : Admin
Vial# : 110
Sample Name : 73445
Sample ID : 110
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\110_73445_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

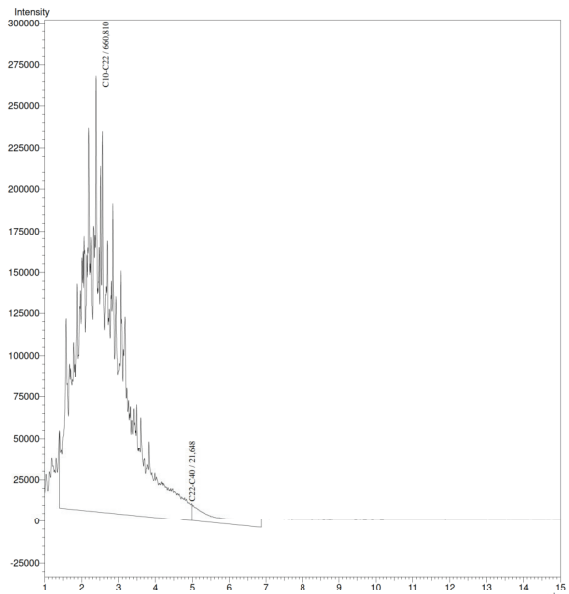
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2.191	347560	14,730	µg/ml	C10-C22
2	6.834	36249	1,469	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 00:07:35
User Name : Admin
Vial# : 111
Sample Name : 73446
Sample ID : 111
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\111_73446_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

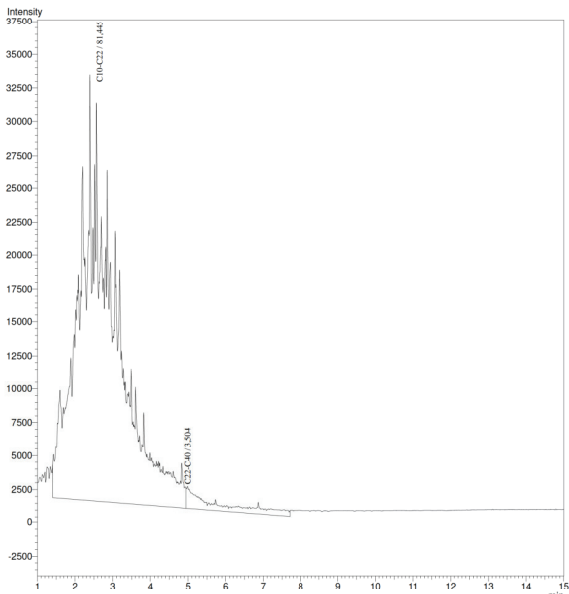
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2.389	15591640	660,810	µg/ml	C10-C22
2	4.992	534168	21,648	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 00:28:42
User Name : Admin
Vial# : 112
Sample Name : 73447
Sample ID : 112
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\112_73447_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

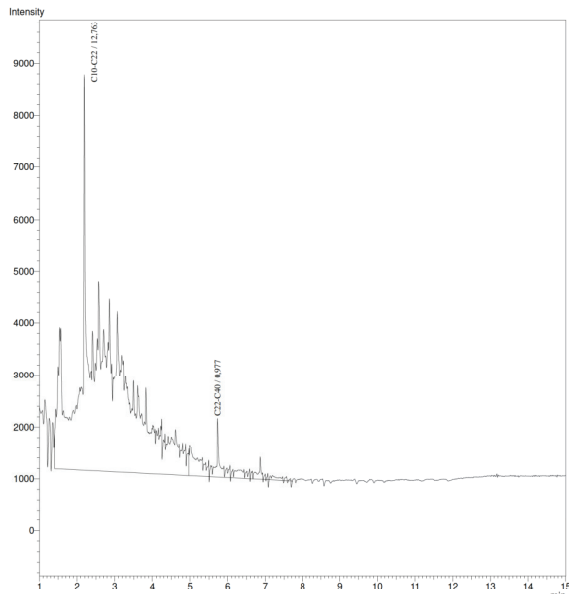
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,393	1921669	81,445	µg/ml	C10-C22
2	4,988	86452	3,504	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 00:49:47
User Name : Admin
Vial# : 113
Sample Name : 73448
Sample ID : 113
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\113_73448_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

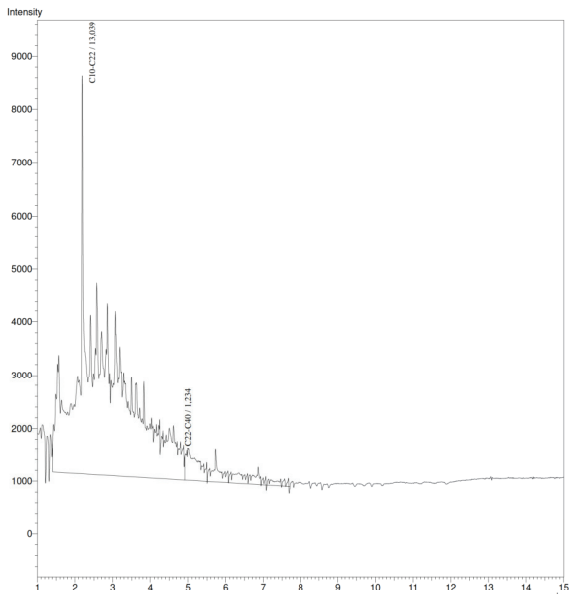
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,191	301145	12,763	µg/ml	C10-C22
2	5,731	24114	0,977	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 01:10:55
User Name : Admin
Vial# : 114
Sample Name : 73449
Sample ID : 114
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\114_73449_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

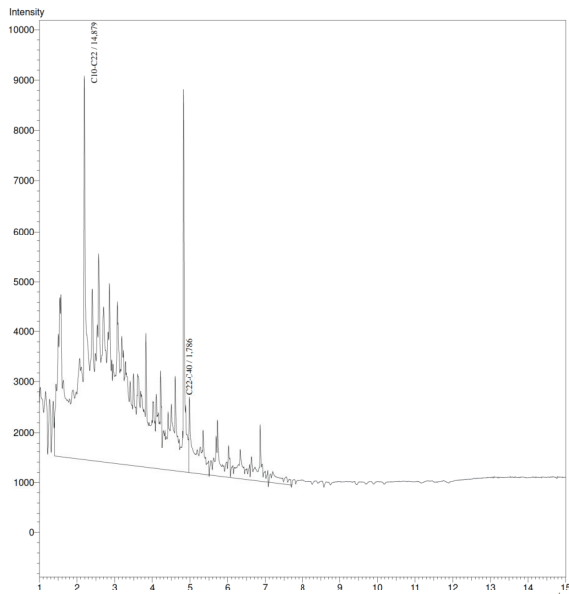
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,192	307663	13,039	µg/ml	C10-C22
2	4,997	30459	1,234	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 01:53:05
User Name : Admin
Vial# : 116
Sample Name : 73450
Sample ID : 116
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\116_73450_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

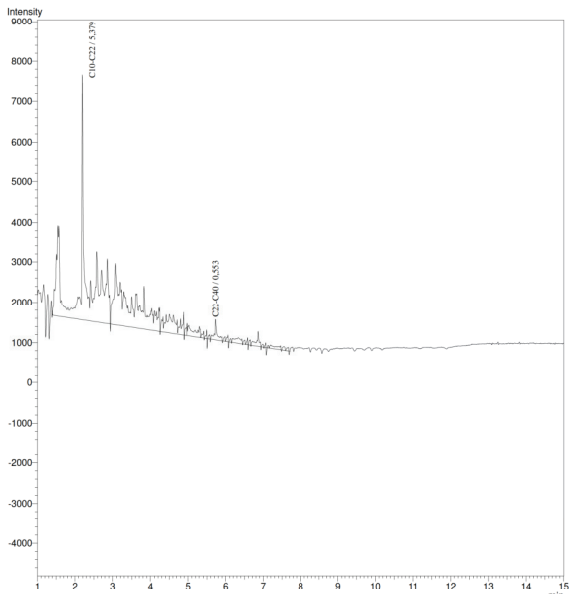
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2,192	351064	14,879	µg/ml	C10-C22
2	4,981	44066	1,786	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 02:14:09
User Name : Admin
Vial# : 117
Sample Name : 73451
Sample ID : 117
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\117_73451_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

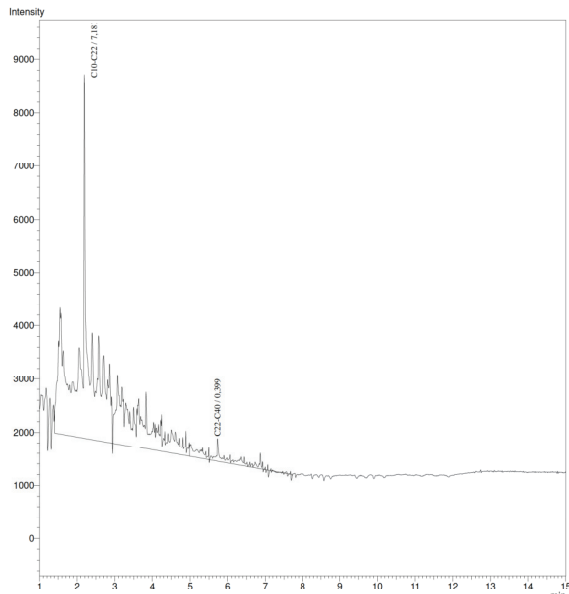
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2.192	126906	5,379	µg/ml	C10-C22
2	5.731	13652	0,553	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 02:35:10
User Name : Admin
Vial# : 118
Sample Name : 73452
Sample ID : 118
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\118_73452_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

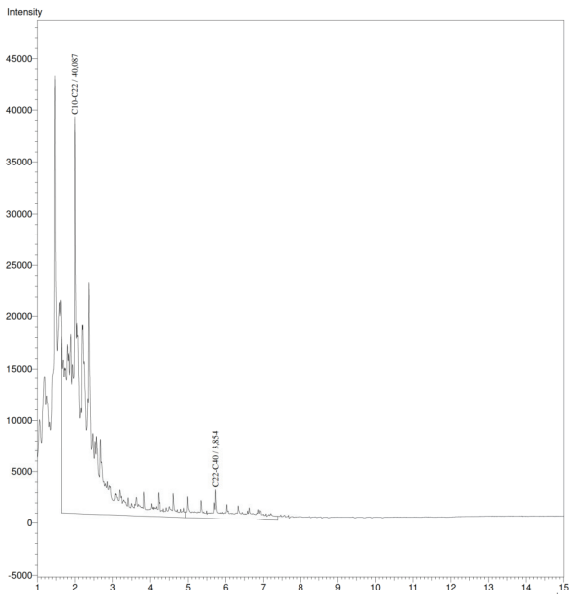
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2.191	169427	7,181	µg/ml	C10-C22
2	5.732	9835	0,399	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 02:56:12
User Name : Admin
Vial# : 119
Sample Name : 73453
Sample ID : 119
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\119_73453_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

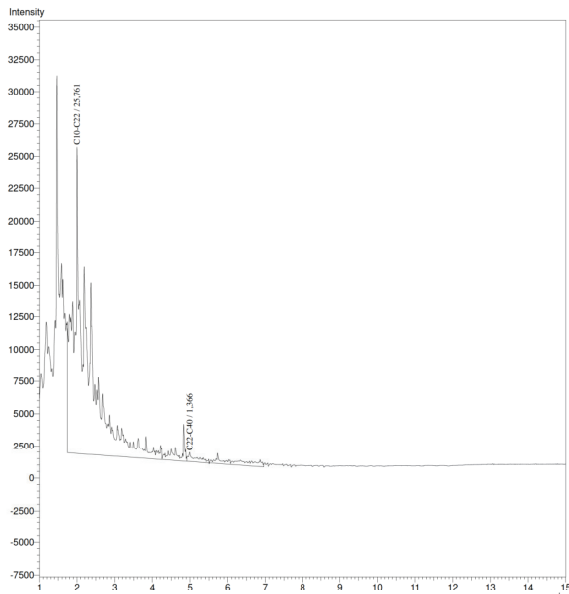
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1.995	945840	40,087	µg/ml	C10-C22
2	5.729	95101	3,854	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 03:17:12
User Name : Admin
Vial# : 120
Sample Name : 73454
Sample ID : 120
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\120_73454_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

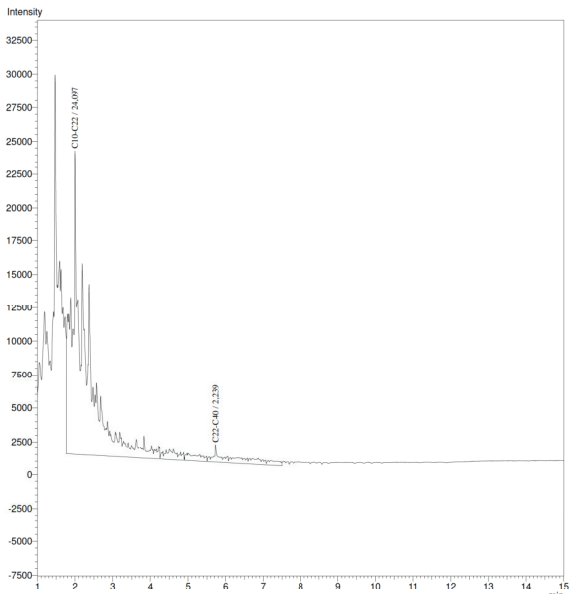
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1.997	607832	25,761	µg/ml	C10-C22
2	4.990	33714	1,366	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 03:38:16
User Name : Admin
Vial# : 121
Sample Name : 73455
Sample ID : 121
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\121_73455_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

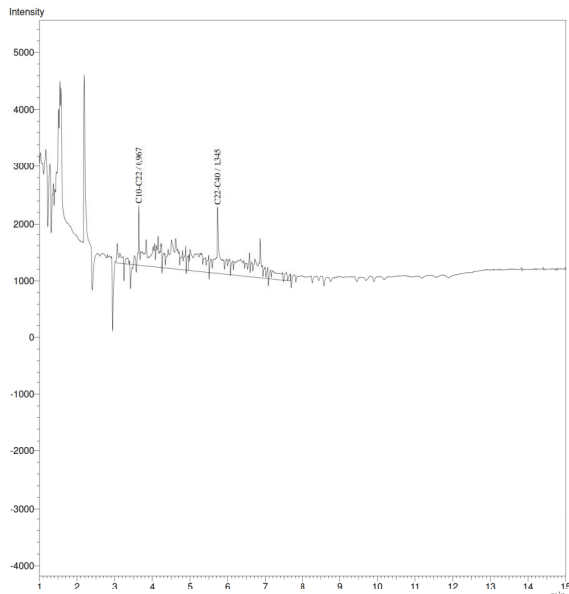
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	1.999	568551	24.097	µg/ml	C10-C22
2	5.729	55251	2.239	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 03:59:16
User Name : Admin
Vial# : 122
Sample Name : 73456
Sample ID : 122
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\122_73456_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

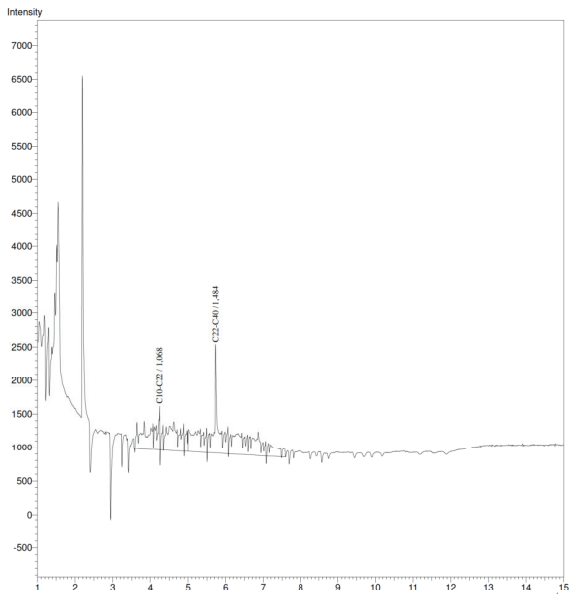
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3.637	22824	0.967	µg/ml	C10-C22
2	5.731	33180	1.345	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 04:20:16
User Name : Admin
Vial# : 123
Sample Name : 73457
Sample ID : 123
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\123_73457_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

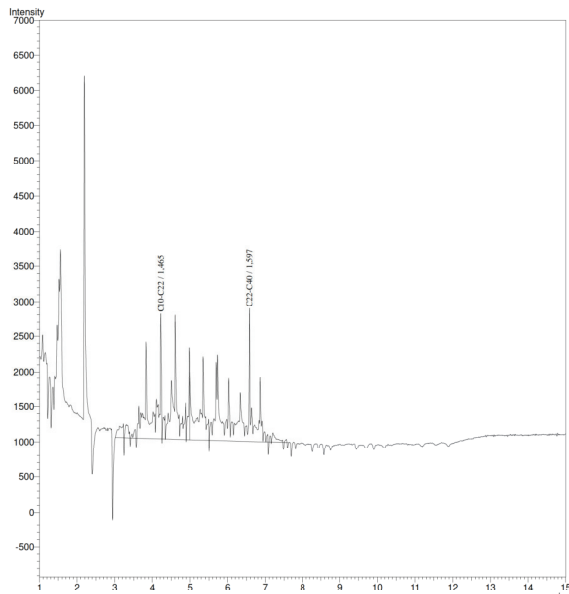
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.241	25195	1.068	µg/ml	C10-C22
2	5.730	36620	1.484	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 04:41:16
User Name : Admin
Vial# : 124
Sample Name : 73458
Sample ID : 124
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\124_73458_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

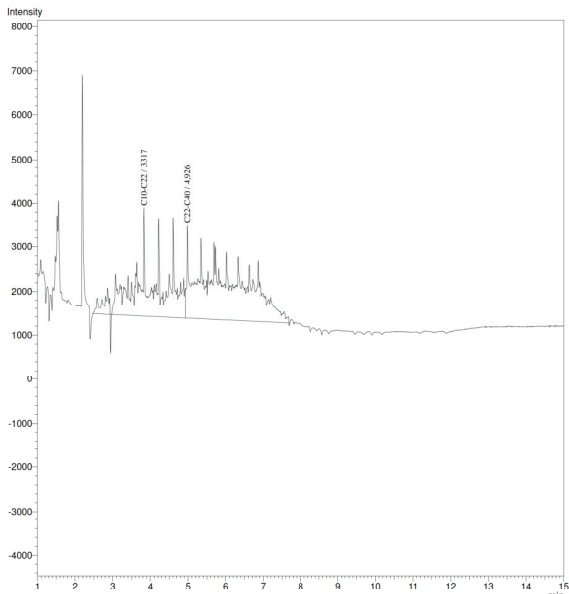
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.222	34558	1.465	µg/ml	C10-C22
2	6.577	39398	1.597	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 05:02:19
User Name : Admin
Vial# : 125
Sample Name : 73459
Sample ID : 125
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\125_73459_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

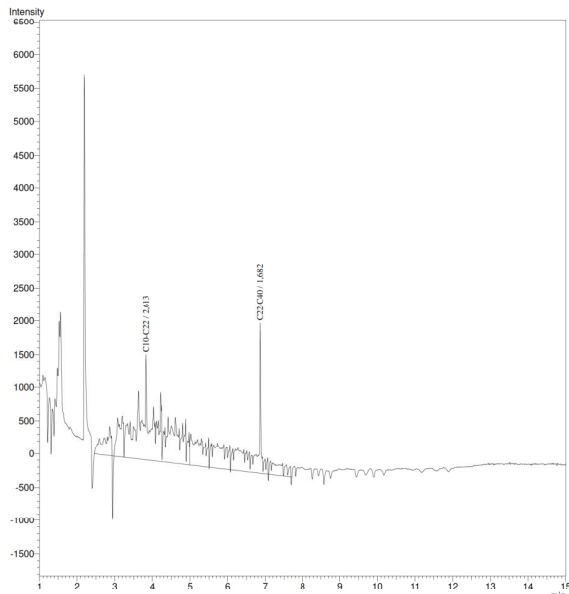
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,828	78260	3,317	µg/ml	C10-C22
2	4,981	121561	4,926	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 10:32:38
User Name : Admin
Vial# : 130
Sample Name : 73460
Sample ID : 130
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\130_73460_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

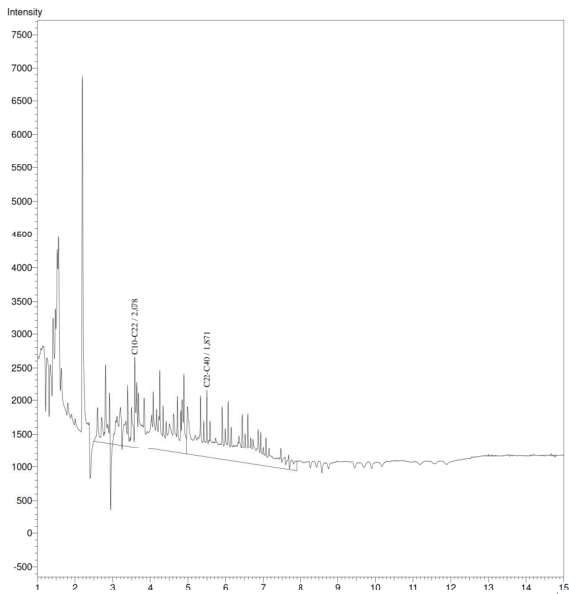
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,829	61646	2,613	µg/ml	C10-C22
2	6,862	41497	1,682	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 10:53:36
User Name : Admin
Vial# : 131
Sample Name : 73461
Sample ID : 131
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\131_73461_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

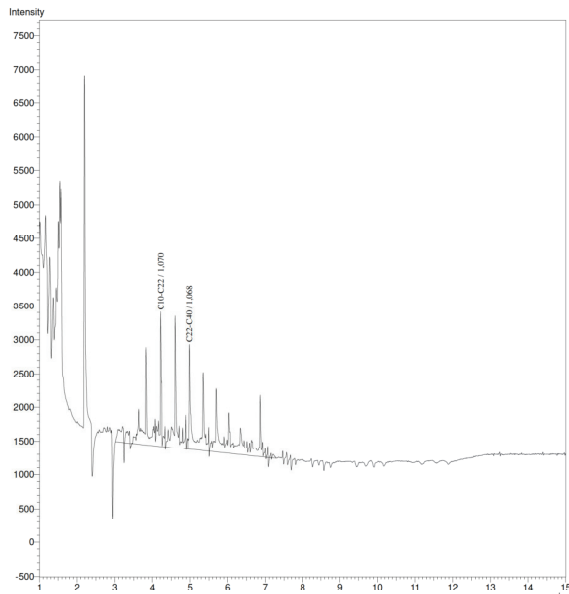
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3,584	49041	2,078	µg/ml	C10-C22
2	5,498	46166	1,871	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 11:14:37
User Name : Admin
Vial# : 132
Sample Name : 73462
Sample ID : 132
Sample Type : Unknown
Injection Volume : 1,00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\132_73462_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

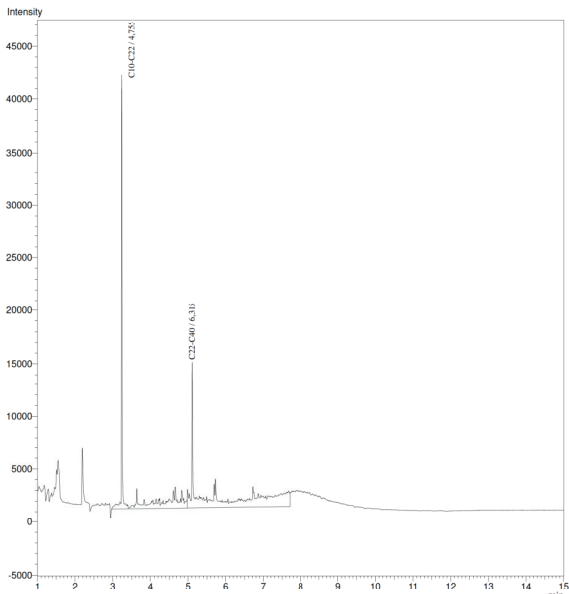
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4,220	25247	1,070	µg/ml	C10-C22
2	4,982	26348	1,068	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 11:35:36
User Name : Admin
Vial# : 133
Sample Name : 73463
Sample ID : 133
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\133_73463_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

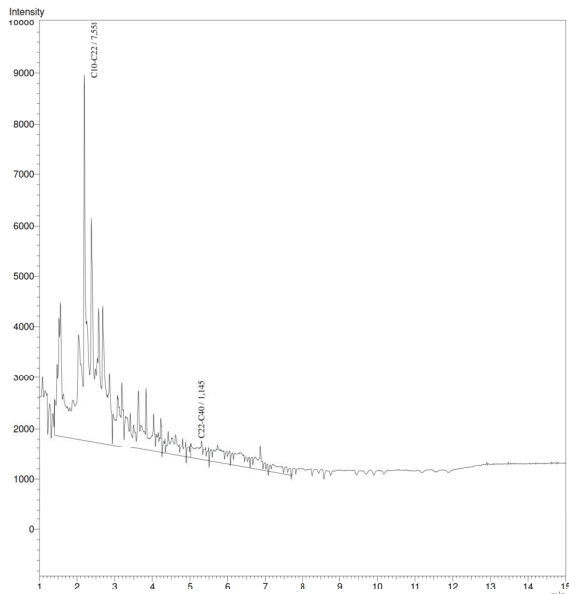
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3.237	112199	4.755	µg/ml	C10-C22
2	5.109	155822	6.315	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 11:56:39
User Name : Admin
Vial# : 134
Sample Name : 73464
Sample ID : 134
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\134_73464_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

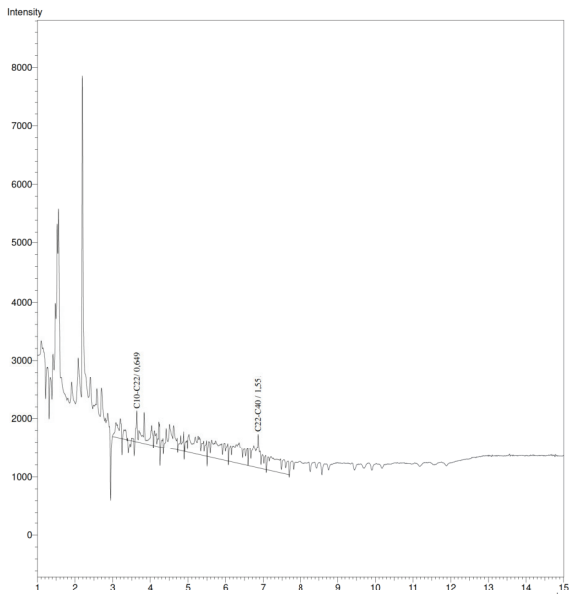
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	2.191	178325	7.558	µg/ml	C10-C22
2	5.305	28263	1.145	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 12:17:37
User Name : Admin
Vial# : 135
Sample Name : 73465
Sample ID : 135
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\135_73465_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

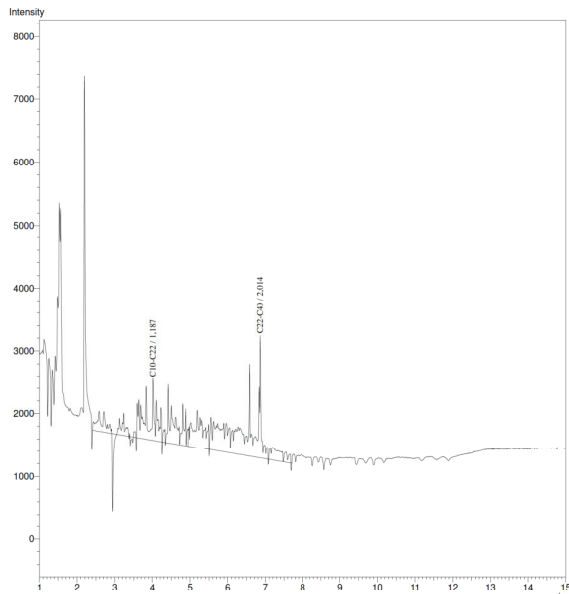
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3.637	15304	0.649	µg/ml	C10-C22
2	6.862	38264	1.551	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 12:36:35
User Name : Admin
Vial# : 136
Sample Name : 73466
Sample ID : 136
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\136_73466_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

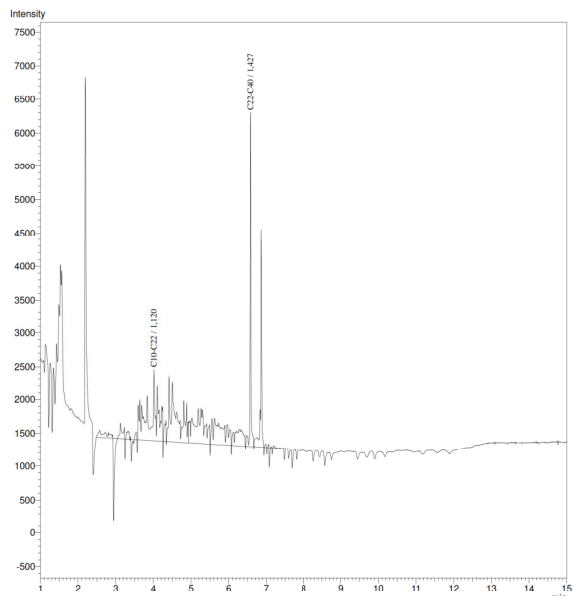
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.015	27997	1.187	µg/ml	C10-C22
2	6.862	49686	2.014	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 12:59:32
User Name : Admin
Vial# : 137
Sample Name : 73467
Sample ID : 137
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\137_73467_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

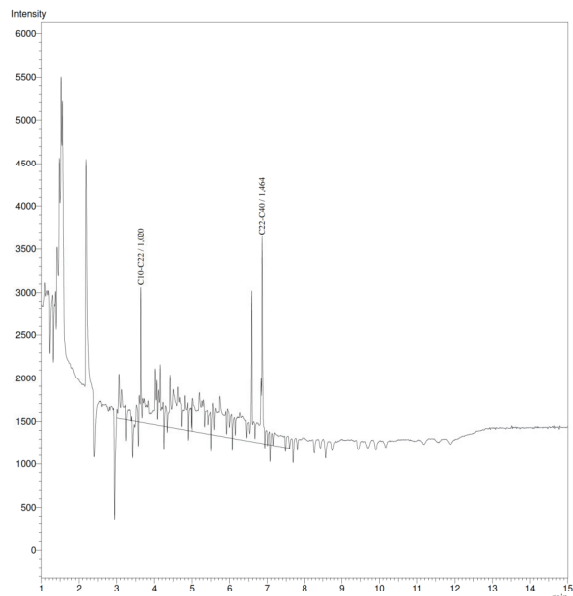
Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	4.013	26417	1.120	µg/ml	C10-C22
2	6.577	35208	1.427	µg/ml	C22-C40



Analysis Date & Time : 23.12.2018 13:20:28
User Name : Admin
Vial# : 138
Sample Name : 73468
Sample ID : 138
Sample Type : Unknown
Injection Volume : 1.00
ISTD Amount :
Data Name : \\10.1.2.121\root_d\FID\2018\fid_181221\138_73468_001.gcd
Method Name : \\10.1.2.121\root_d\FID\2018\fid_181221\vr_h53.gcm

Group Results - Channel 1

Peak#	Ret.Time	Area	Conc.	Unit	Cmpd Name
1	3.638	24077	1.020	µg/ml	C10-C22
2	6.862	36117	1.464	µg/ml	C22-C40



Bearbeiter: Dr. Martina Leuer
Durchwahl: 05131-7099-19
Sekretariat: 05131-7099-0
Telefax: 05131-7099-60

Prüfbericht Nr. 2018-05282003

Hydrogeologie
Altlastenerkundung
Umweltanalytik
BodenluftuntersuchungenSeite 1 von 4
Datum: 10.01.2019

Projekt-Nr. A1012-05282

Auftraggeber: GESA

Karl-Liebknecht-Str. 33
10178 Berlin

Probenahmeort: Bremen-Farge

Probenart: Boden

Probenanzahl: 9 Proben

Entnahmedatum: 04.12.2018 - 20.12.2018

Eingangsdatum: 05.12.2018 - 21.12.2018

Probenahme: erfolgte durch GEO-data GmbH - Herr Kretschmer

Probenvorbereitung: entsprechend den durchgeführten DIN-Vorschriften
Homogenisierung mit Mörser und Kugelmühle
Analytik der LHKW/BTEX: Übersichten mit MethanolVerantwortlich für den Prüfbericht:
Garbsen, 10.01.2019Dr. Martina Leuer
LaborleiterinDie Prüfergebnisse beziehen sich ausschließlich auf die untersuchten Proben.
Eine auszugswiese Veröffentlichung der Veröffentlichung des Prüfberichts darf nur mit schriftlicher Genehmigung der GEO-data GmbH erfolgen.

Eingetragen beim Amtsgericht Hannover, HRB 110061 - Geschäftsführer: Dr. Thomas Meyer-Ulich, Heinrich Kreipe

Prüfbericht

Nr. 2018-05282003

Seite 2 von 4
Datum: 10.01.2019

Probennummer	2018-56184	2018-56185	2018-56255	2018-56391
Probenart	Boden	Boden	Boden	Boden
Probenbezeichnung	33-3	33-14	39-14	32-4
Entnahmestelle	Farge	Farge	Farge	Farge
Entnahmepunkt / -tiefe (m)	3,50 - 4,00	14,50 - 15,00	14,50 - 15,00	4,50 - 5,00
Entnahmedatum	04.12.2018	04.12.2018	06.12.2018	11.12.2018
Entnahmeszeit				
Eingangsdatum	05.12.2018	05.12.2018	07.12.2018	11.12.2018
Analysedatum	11.12.18-12.12.18	11.12.18-12.12.18	11.12.18-13.12.18	14.12.18-17.12.18

Messverfahren*)						Einheit
Trockenrückstand	DIN 38414 S2	92,5	86,7	89,7	96,3	%
Kohlenwasserstoffindex	ISO/DIS 16703	1100	1800	150	< 52	mg/kg TS
Kohlenwasserstoffe (C10-C22)	ISO/DIS 16703	1000	1500	140	< 52	mg/kg TS
Benzol	a. DIN 38407 F9-1	< 0,1	0,68	< 0,2	< 0,2	mg/kg TS
Toluol	a. DIN 38407 F9-1	0,47	20	7,5	< 0,2	mg/kg TS
Ethylbenzol	a. DIN 38407 F9-1	15	35	19	0,72	mg/kg TS
m/p-Xylol	a. DIN 38407 F9-1	22	130	67	1,4	mg/kg TS
o-Xylol	a. DIN 38407 F9-1	7,2	52	24	0,91	mg/kg TS
Summe der BTEX	a. DIN 38407 F9-1	45	240	120	3,0	mg/kg TS

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzelle = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
n = nicht akkreditiertes Verfahren
u = Untervergabe
f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Prüfbericht

Nr. 2018-05282003

Seite 3 von 4
Datum: 10.01.2019

Probennummer	2018-56392	2018-56511	2018-56512	2018-56860
Probenart	Boden	Boden	Boden	Boden
Probenbezeichnung	44-4	29-3	50-7	48-9
Entnahmestelle	Farge	Farge	Farge	Farge
Entnahmepunkt / -tiefe (m)	4,50 - 5,00	3,60 - 4,00	7,50 - 8,00	9,50 - 10,00
Entnahmedatum	11.12.2018	12.12.2018	12.12.2018	20.12.2018
Entnahmeszeit				
Eingangsdatum	11.12.2018	12.12.2018	12.12.2018	21.12.2018
Analysedatum	14.12.18-17.12.18	17.12.18-18.12.18	17.12.18-07.01.19	09.01.19-10.01.19

Messverfahren*)						Einheit
Trockenrückstand	DIN 38414 S2	96,9	82,2	93,1	96,5	%
Kohlenwasserstoffindex	ISO/DIS 16703	140	< 130	76	< 52	mg/kg TS
Kohlenwasserstoffe (C10-C22)	ISO/DIS 16703	130	< 130	71	< 52	mg/kg TS
Benzol	a. DIN 38407 F9-1	< 0,2	< 0,2	< 0,2	< 0,2	mg/kg TS
Toluol	a. DIN 38407 F9-1	< 0,2	< 0,2	< 0,2	< 0,2	mg/kg TS
Ethylbenzol	a. DIN 38407 F9-1	2,5	< 0,2	4,0	< 0,2	mg/kg TS
m/p-Xylol	a. DIN 38407 F9-1	5,1	0,22	8,3	< 0,2	mg/kg TS
o-Xylol	a. DIN 38407 F9-1	1,4	< 0,2	5,3	< 0,2	mg/kg TS
Summe der BTEX	a. DIN 38407 F9-1	9,0	0,22	18	u.B.	mg/kg TS

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzelle = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
n = nicht akkreditiertes Verfahren
u = Untervergabe
f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Prüfbericht

Nr. 2018-05282003

Seite 4 von 4
Datum: 10.01.2019

Probennummer	2018-56861			
Probenart	Boden			
Probenbezeichnung	52-14			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	14,50 - 15,00			
Entnahmedatum	20.12.2018			
Entnahmeszeit				
Eingangsdatum	21.12.2018			
Analysedatum	09.01.19-10.01.19			

Messverfahren*)						Einheit
Trockenrückstand	DIN 38414 S2	89,4				%
Kohlenwasserstoffindex	ISO/DIS 16703	< 56				mg/kg TS
Kohlenwasserstoffe (C10-C22)	ISO/DIS 16703	< 56				mg/kg TS
Benzol	a. DIN 38407 F9-1	< 0,2				mg/kg TS
Toluol	a. DIN 38407 F9-1	< 0,2				mg/kg TS
Ethylbenzol	a. DIN 38407 F9-1	< 0,2				mg/kg TS
m/p-Xylol	a. DIN 38407 F9-1	< 0,2				mg/kg TS
o-Xylol	a. DIN 38407 F9-1	< 0,2				mg/kg TS
Summe der BTEX	a. DIN 38407 F9-1	u.B.				mg/kg TS

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzelle = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
n = nicht akkreditiertes Verfahren
u = Untervergabe
f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Anlage 11, Kontrollanalytik

Bearbeiter: Dr. Martina Leuer
Durchwahl: 05131-7099-19
Sekretariat: 05131-7099-0
Telefax: 05131-7099-60

Hydrogeologie
Altlastenerkundung
Umweltanalytik
Bodenluftuntersuchungen

Prüfbericht Nr. 2018-05282004

Seite 1 von 11
Datum: 10.01.2019

Projekt-Nr. A1012-05282

Auftraggeber: GESA

Karl-Liebknecht-Str. 33
10178 Berlin

Probennahmeort: Bremen-Farge

Probenart: Boden

Probenanzahl: 10 Proben

Entnahmedatum: 04.12.2018 - 20.12.2018

Eingangsdatum: 05.12.2018 - 21.12.2018

Probenahme: erfolgte durch GEO-data GmbH - Herr Kretschmer

Probenvorbereitung: entsprechend den durchgeführten DIN-Vorschriften
Siebanalysen

Verantwortlich für den Prüfbericht:
Garbsen, 10.01.2019



DAkkS
Deutsche
Akkreditierungsstelle
D-PL 14638-01-00

(Signature)
Dr. Martina Leuer
Laborleiterin

Die Prüfergebnisse beziehen sich ausschließlich auf die untersuchten Proben.
Eine ausgiebige Vervielfältigung der Veröffentlichung des Prüfberichts darf nur mit schriftlicher Genehmigung der GEO-data GmbH erfolgen.

Eingetragen beim Amtsgericht Hannover, HRB 110061 · Geschäftsführer: Dr. Thomas Meyer-Ulich, Heinrich Kreipe

Prüfbericht

Nr. 2018-05282004

Seite 2 von 11
Datum: 10.01.2019

Probennummer	2018-56186			
Probenart	Boden			
Probenbezeichnung	33-6			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	6,50 - 7,00			
Entnahmedatum	04.12.2018			
Entnahmezeit	05.12.2018			
Eingangsdatum	11.12.18-11.12.18			
Analysedatum				

Korngrößenvert.	Messverfahren*)				Einheit
DIN 18123					

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	2,5	0,6	99,4
1	7,8	2,0	98,0
0,63	24,6	6,3	93,7
0,5	40,4	10,4	89,6
0,25	175,2	44,9	55,1
0,125	360	92,3	7,7
0,063	384	98,4	1,6
<0,063	390	99,9	0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen u.B. = unterhalb Bestimmungsgrenze n.n. = nicht nachweisbar Leerzeile = nicht bestimmt TS = Trockensubstanz OS = Originalsubstanz * = nicht akkreditiertes Verfahren * = Untervergabe * = Fremdvergabe
*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Prüfbericht

Nr. 2018-05282004

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Datum: 10.01.2019

Probennummer	2018-56187			
Probenart	Boden			
Probenbezeichnung	33-9			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	9,50 - 10,00			
Entnahmedatum	04.12.2018			
Entnahmezeit	05.12.2018			
Eingangsdatum	11.12.18-11.12.18			
Analysedatum				

Korngrößenvert.	Messverfahren*)				Einheit
DIN 18123					

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	1,2	0,4	99,6
1	6,1	1,9	98,1
0,63	19,8	6,2	93,8
0,5	64,4	20,2	79,8
0,25	146	45,8	54,2
0,125	288,5	90,6	9,4
0,063	314,3	98,7	1,3
<0,063	318,3	99,9	0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen n.n. = nicht nachweisbar TS = Trockensubstanz * = nicht akkreditiertes Verfahren u.B. = unterhalb Bestimmungsgrenze OS = Originalsubstanz * = Untervergabe * = Fremdvergabe
*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

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Nr. 2018-05282004

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Datum: 10.01.2019

Probennummer	2018-56251			
Probenart	Boden			
Probenbezeichnung	33-14			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	14,50 - 15,00			
Entnahmedatum	04.12.2018			
Entnahmezeit	05.12.2018			
Eingangsdatum	11.12.18-11.12.18			
Analysedatum				

Korngrößenvert.	Messverfahren*)				Einheit
DIN 18123					

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	1,8	0,6	99,4
1	21,1	7,4	92,6
0,63	46,6	16,2	83,8
0,5	59,2	20,6	79,4
0,25	105,8	36,9	63,1
0,125	241,7	84,3	15,7
0,063	281,9	98,3	1,7
<0,063	286,5	99,9	0,1
Summe Rückstand	286,5	99,9	0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen n.n. = nicht nachweisbar TS = Trockensubstanz * = nicht akkreditiertes Verfahren u.B. = unterhalb Bestimmungsgrenze OS = Originalsubstanz * = Untervergabe * = Fremdvergabe
*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Anlage 11, Siebanalysen

Prüfbericht

Nr. 2018-05282004

Seite 5 von 11
Datum: 10.01.2019

Probennummer	2018-56252			
Probenart	Boden			
Probenbezeichnung	39-4			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	4,50 - 5,00			
Entnahmedatum	06.12.2018			
Entnahmezeit	07.12.2018			
Eingangsdatum	11.12.18-11.12.18			
Analysedatum				

Messverfahren*)					Einheit
Korngrößenvert.	DIN 18123				

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0,7	0,3	99,7
1	1,2	0,5	99,5
0,63	2,1	0,9	99,1
0,5	3,1	1,3	98,7
0,25	86,2	35,8	64,2
0,125	228,1	94,7	5,3
0,063	238,7	99,1	0,9
<0,063	241	100,1	-0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

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Nr. 2018-05282004

Seite 6 von 11
Datum: 10.01.2019

Probennummer	2018-56253			
Probenart	Boden			
Probenbezeichnung	39-9			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	9,50 - 10,00			
Entnahmedatum	06.12.2018			
Entnahmezeit	07.12.2018			
Eingangsdatum	11.12.18-11.12.18			
Analysedatum				

Messverfahren*)					Einheit
Korngrößenvert.	DIN 18123				

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0	0,0	100,0
1	0	0,0	100,0
0,63	1	0,5	99,5
0,5	3,7	2,0	98,0
0,25	84,7	46,0	54,0
0,125	174,9	94,9	5,1
0,063	182,6	99,1	0,9
<0,063	184,2	99,9	0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

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Nr. 2018-05282004

Seite 7 von 11
Datum: 10.01.2019

Probennummer	2018-56254			
Probenart	Boden			
Probenbezeichnung	39-14			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	14,50 - 15,00			
Entnahmedatum	06.12.2018			
Entnahmezeit	07.12.2018			
Eingangsdatum	11.12.18-11.12.18			
Analysedatum				

Messverfahren*)					Einheit
Korngrößenvert.	DIN 18123				

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0	0,0	100,0
1	4	1,5	98,5
0,63	29,7	11,3	88,7
0,5	45,8	17,4	82,6
0,25	98,6	37,5	62,5
0,125	220,8	84,0	16,0
0,063	253,8	96,6	3,4
<0,063	262,6	99,9	0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

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Nr. 2018-05282004

Seite 8 von 11
Datum: 10.01.2019

Probennummer	2018-56393			
Probenart	Boden			
Probenbezeichnung	31-9			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	9,50 - 10,00			
Entnahmedatum	11.12.2018			
Entnahmezeit	11.12.2018			
Eingangsdatum	18.12.18-18.12.18			
Analysedatum				

Messverfahren*)					Einheit
Korngrößenvert.	DIN 18123				

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0	0,0	100,0
1	0	0,0	100,0
0,63	0	0,0	100,0
0,5	0	0,0	100,0
0,25	11,5	4,5	95,5
0,125	215,9	84,1	15,9
0,063	254,3	99,1	0,9
<0,063	255,7	99,6	0,4

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe

*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

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Nr. 2018-05282004

Seite 9 von 11
Datum: 10.01.2019

Probennummer	2018-56394			
Probenart	Boden			
Probenbezeichnung	31-14			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	14,50 - 15,00			
Entnahmedatum	11.12.2018			
Entnahmeszeit	11.12.2018			
Eingangsdatum	18.12.18-18.12.18			
Analysedatum				

Messverfahren*)						Einheit
Korngrößenvert.	DIN 18123					

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0	0,0	100,0
1	0	0,0	100,0
0,63	0	0,0	100,0
0,5	0,1	0,0	100,0
0,25	95,4	33,2	66,8
0,125	232,9	81,0	19,0
0,063	283,1	98,5	1,5
<0,063	287,1	99,9	0,1

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe
*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Prüfbericht

Nr. 2018-05282004

Seite 10 von 11
Datum: 10.01.2019

Probennummer	2018-56452			
Probenart	Boden			
Probenbezeichnung	29-9			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	14,50 - 15,00			
Entnahmedatum	12.12.2018			
Entnahmeszeit	12.12.2018			
Eingangsdatum	18.12.18-18.12.18			
Analysedatum				

Messverfahren*)						Einheit
Korngrößenvert.	DIN 18123					

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0	0,0	100,0
1	0,7	0,3	99,7
0,63	2,2	1,1	98,9
0,5	4,1	2,0	98,0
0,25	31,8	15,4	84,6
0,125	174,4	84,4	15,6
0,063	205,8	99,6	0,4
<0,063	206,1	99,8	0,2

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe
*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.

Prüfbericht

Nr. 2018-05282004

Seite 11 von 11
Datum: 10.01.2019

Probennummer	2018-56862			
Probenart	Boden			
Probenbezeichnung	46-9			
Entnahmestelle	Farge			
Entnahmepunkt / -tiefe (m)	9,50 - 10,00			
Entnahmedatum	20.12.2018			
Entnahmeszeit	21.12.2018			
Eingangsdatum	10.01.19-10.01.19			
Analysedatum				

Messverfahren*)						Einheit
Korngrößenvert.	DIN 18123					

Maschenweite [mm]	Rückstand [g]	Rückstand [%]	Durchgang [%] ist
2	0	0,0	100,0
1	0,3	0,1	99,9
0,63	1,8	0,9	99,1
0,5	3,7	1,8	98,2
0,25	30,4	15,1	84,9
0,125	188,1	93,3	6,7
0,063	209,8	99,6	0,4
<0,063	201,1	99,8	0,2

Bemerkungen: n.b. = nicht bestimmbar wegen Matrixstörungen
u.B. = unterhalb Bestimmungsgrenze
n.n. = nicht nachweisbar
Leerzeile = nicht bestimmt
TS = Trockensubstanz
OS = Originalsubstanz
^n = nicht akkreditiertes Verfahren
^u = Untervergabe
^f = Fremdvergabe
*) Die Bestimmungsgrenzen und Vertrauensintervalle des Verfahrens entsprechen den in der Norm angegebenen Werten.