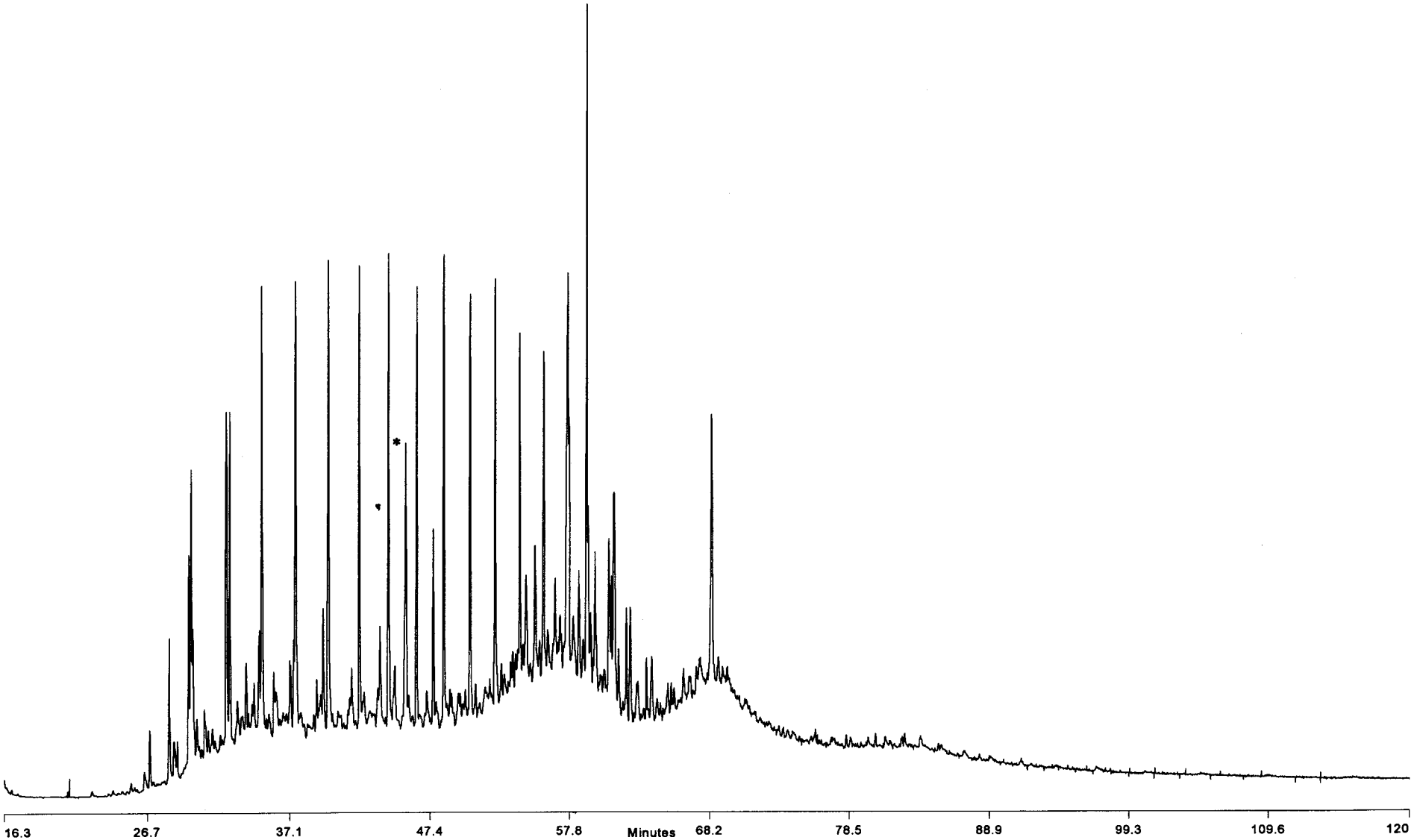
CORP

WELL: Natural Gas Co. 23-24 Federal D273
depth: 4882.5 ft

UINTAH, UTAH
T 8S-R21E -24

TOC (%): 8.28 HI (mg HC/g C_{org}): 824 OI (mg CO_2/g C_{org}): 21 Tmax (°C): 434



* = Internal Standard $C_{24}D_{50}$
GC: 40-360°C @ 4°/min, 120 min, DB-1HT, 0.25 µm film

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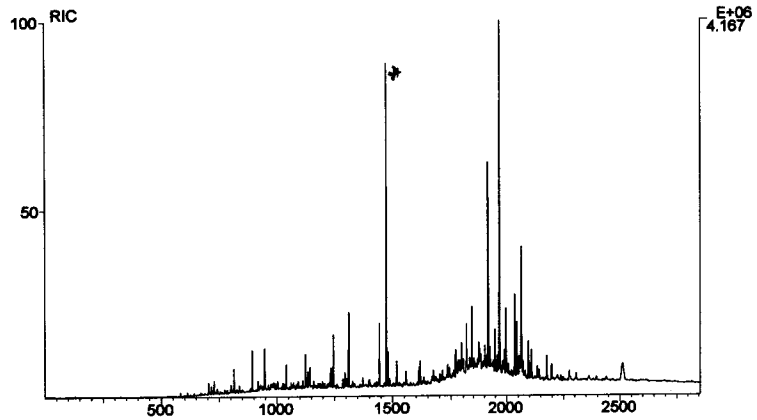
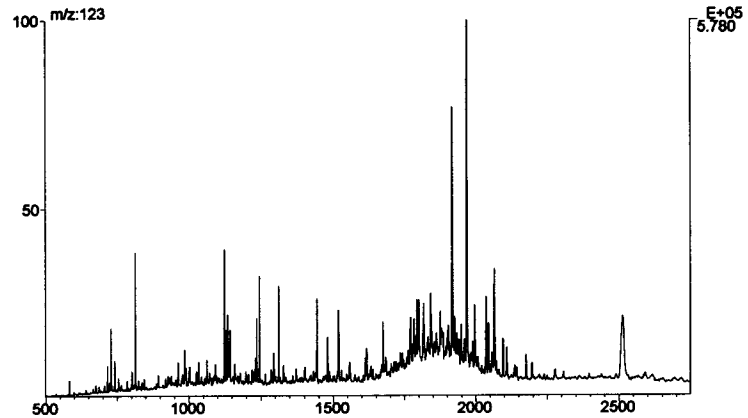
WELL: Natural Gas Co. 23-24 Federal
depth: 4882.5 ft

* = Internal Standard $C_{24}D_{50}$

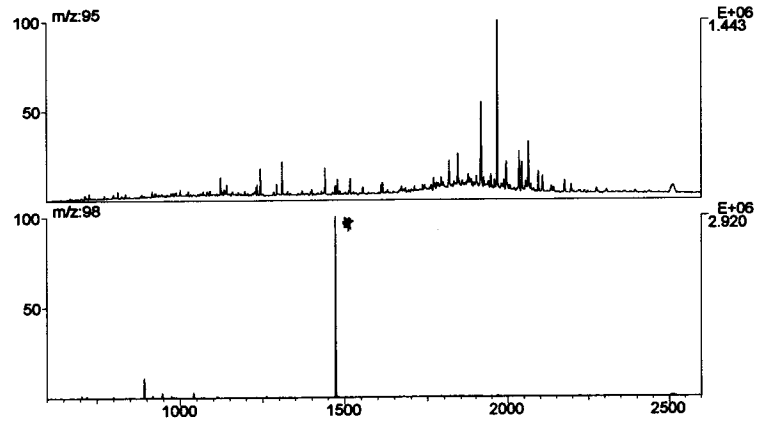
CHRO: em8222 28-MAY-97 Elapse: 00:18:57.0 268
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 1 > 2856 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



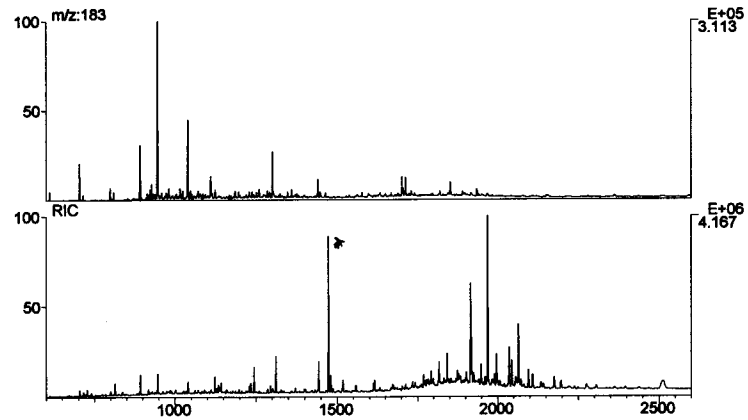
CHRO: em8222 28-MAY-97 Elapse: 00:35:38.9 801
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 498 > 2748 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



CHRO: em8222 28-MAY-97 Elapse: 00:33:01.0 717
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2601 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



CHRO: em8222 28-MAY-97 Elapse: 00:18:57.0 268
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



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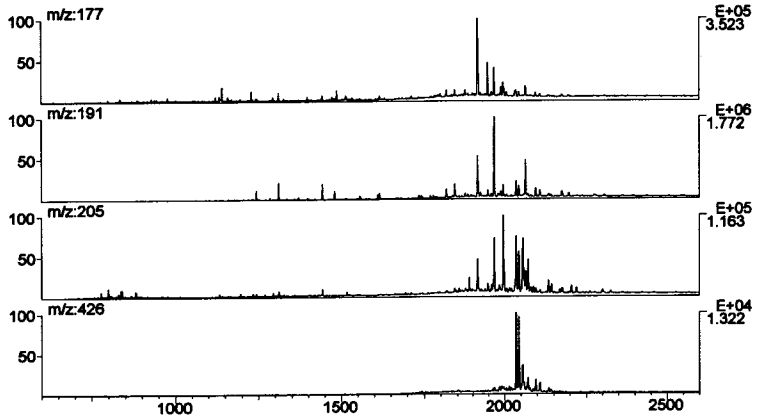
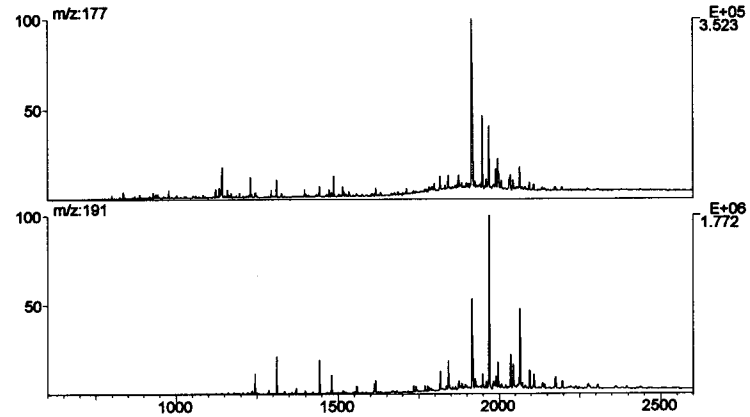
WELL: Natural Gas Co. 23-24 Federal
depth: 4882.5 ft

* = Internal Standard $C_{24}D_{50}$

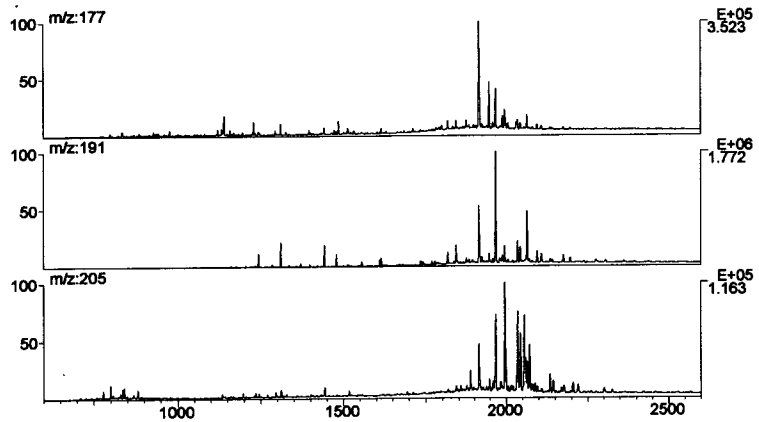
CHRO: em8222 28-MAY-97 Elapse: 00:35:38.9 801
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



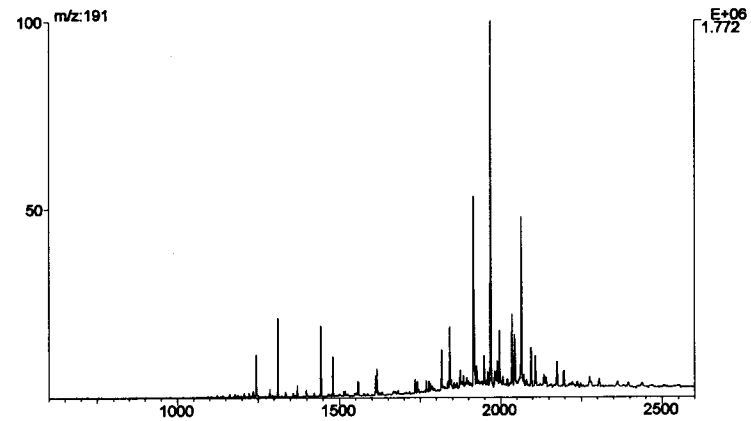
CHRO: em8222 28-MAY-97 Elapse: 00:35:38.9 801
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



CHRO: em8222 28-MAY-97 Elapse: 00:35:38.9 801
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



CHRO: em8222 28-MAY-97 Elapse: 00:33:01.0 717
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



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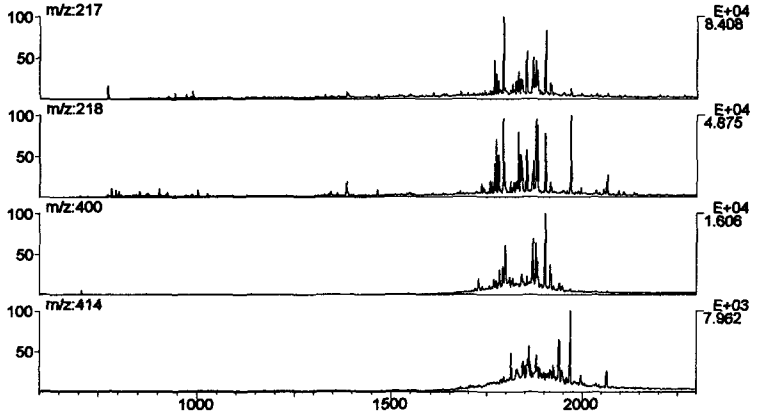
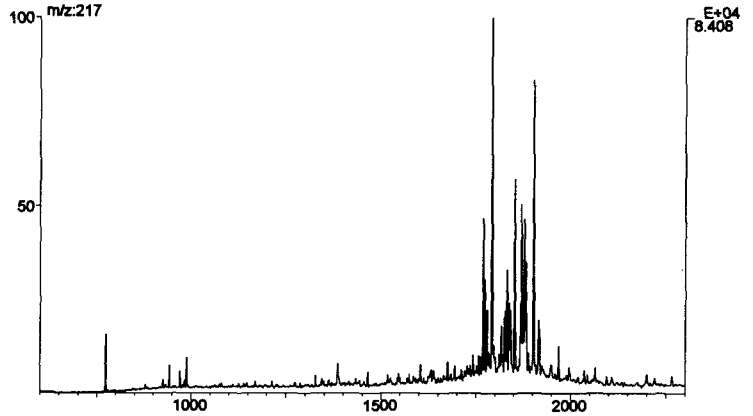
WELL: Natural Gas Co. 23-24 Federal
depth: 4882.5 ft

* = Internal Standard $C_{24}D_{50}$

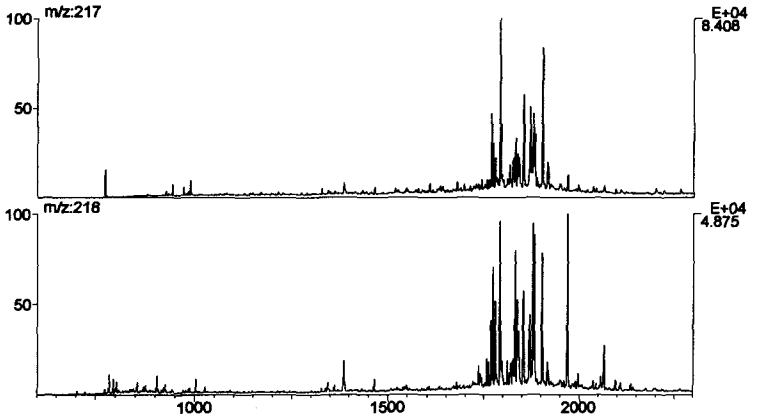
CHRO: em8222 28-MAY-97 Elapse: 00:33:01.0 717
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2300 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



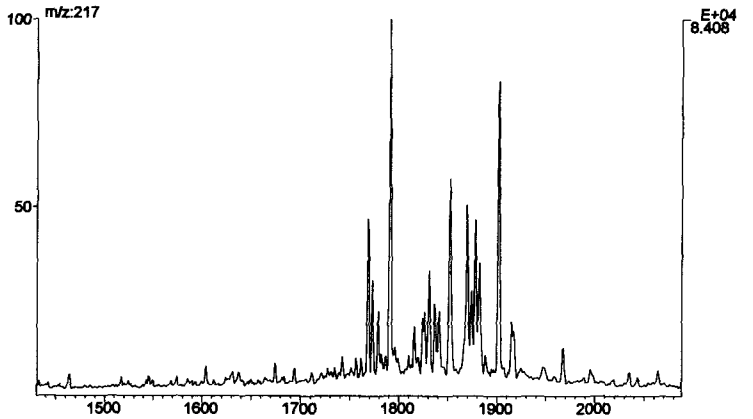
CHRO: em8222 28-MAY-97 Elapse: 00:33:01.0 717
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2300 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



CHRO: em8222 28-MAY-97 Elapse: 00:33:01.0 717
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 600 > 2300 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



CHRO: em8222 28-MAY-97 Elapse: 00:33:01.0 717
Samp: UB19E Nat. Gas 23-24 Federal 4882.5ft Start: 20:49:40 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 6
Peak: 1000.00 mmu Label wndw: 1431 > 2088 Masses: 95 > 426
Area: 0, 4.00 Baseline: 0, 5 Label: 0, 0.00



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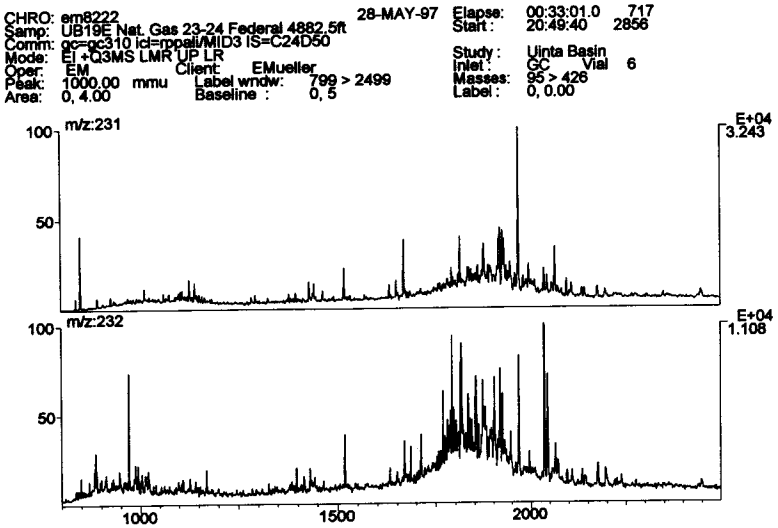
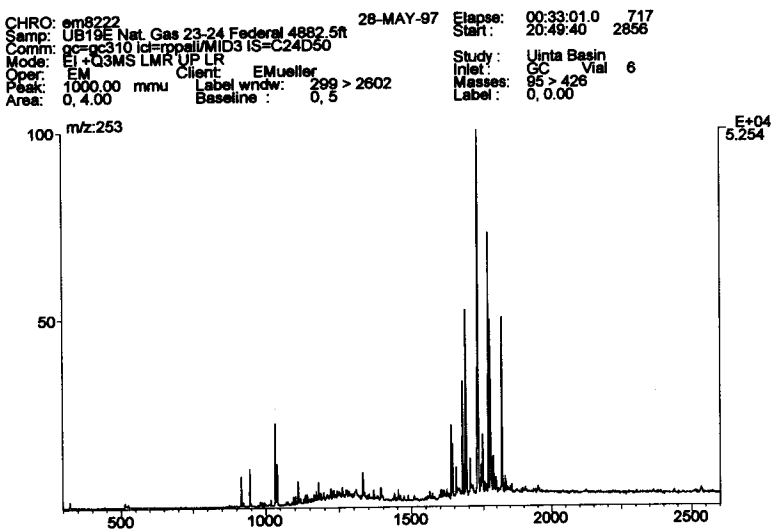
WELL: Natural Gas Co. 23-24 Federal
depth: 4882.5 ft

* = Internal Standard $C_{24}D_{50}$





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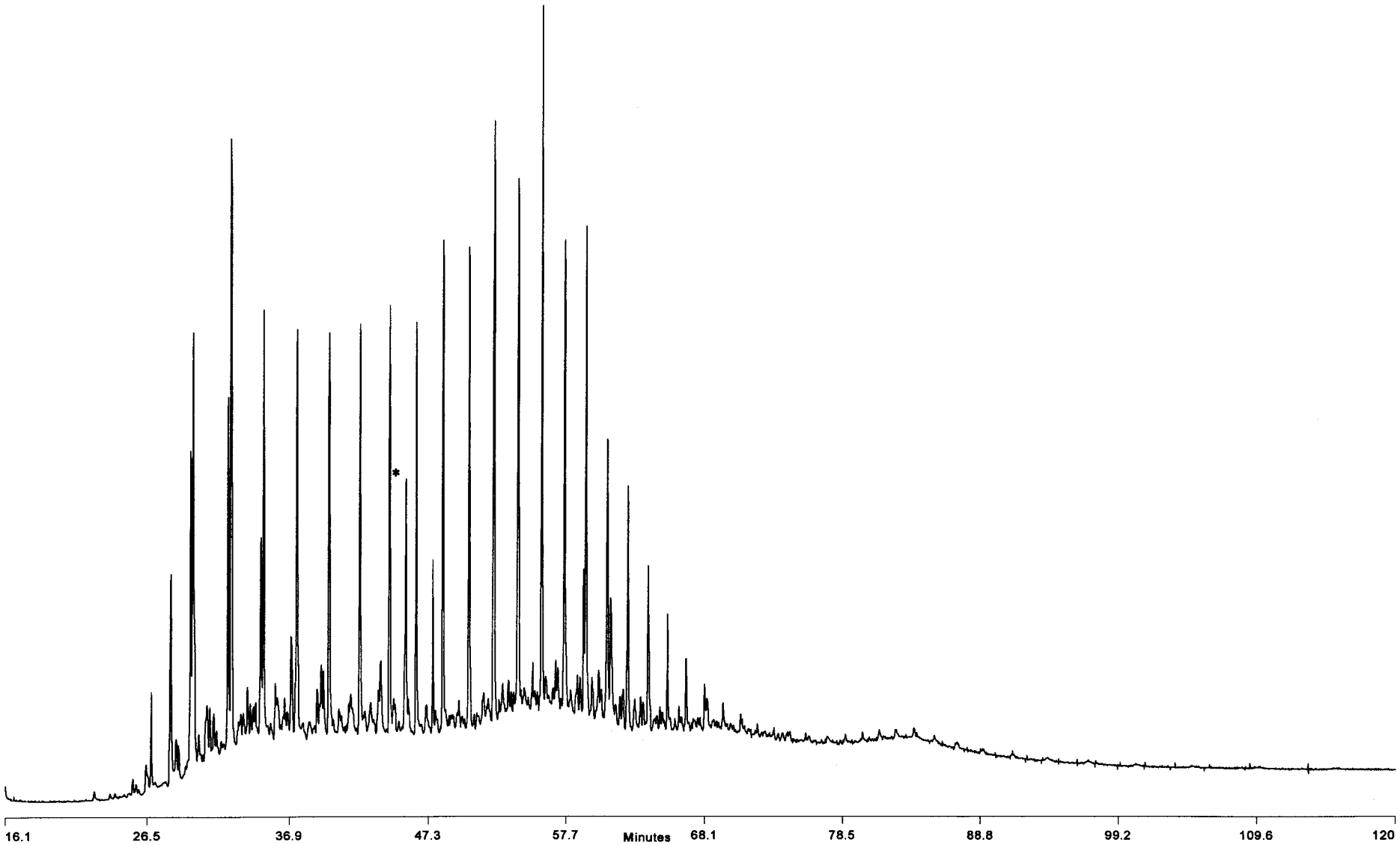
CORP

D273

UINTAH, UTAH
T8S-R21E-24

WELL: Natural Gas Co. 23-24
depth: 4978-4978.5 ft

TOC (%): 0.94 HI (mg HC/g C_{org}): 429 OI (mg CO_2/g C_{org}): 45 Tmax (°C): 423



* = Internal Standard $C_{24}D_{50}$
GC: 40-360°C @ 4°/min, 120 min, DB-1HT, 0.25 µm film

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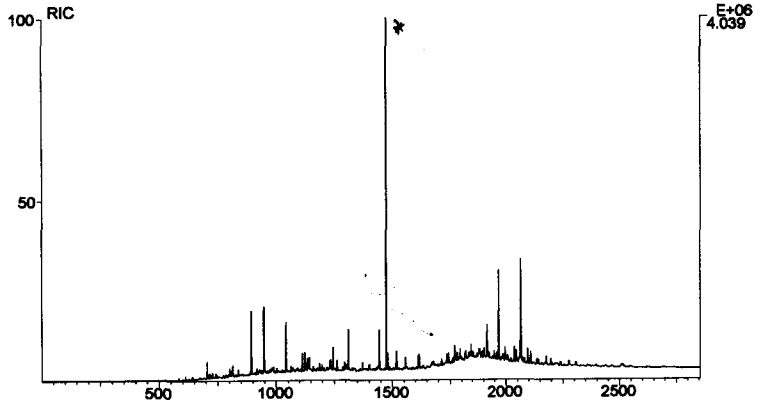
Organic Geochemistry

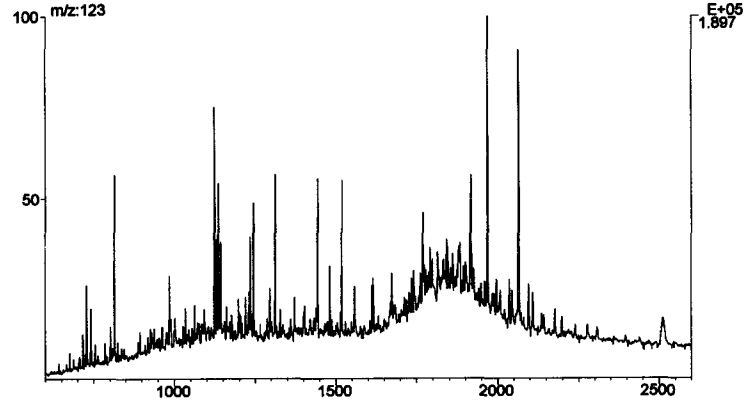
WELL: Natural Gas Co. 23-24 Federal
depth: 4978-4978.5 ft

* = Internal Standard $C_{24}D_{50}$

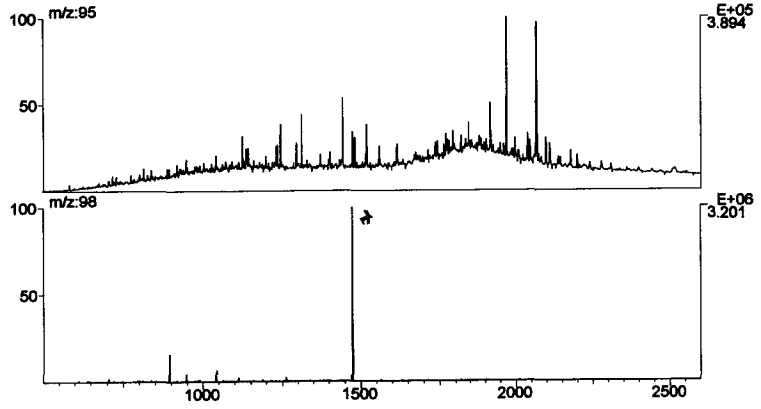
CHRO: em8223 28-MAY-97 Elapse: 00:40:20.5 951
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 1 > 2856 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



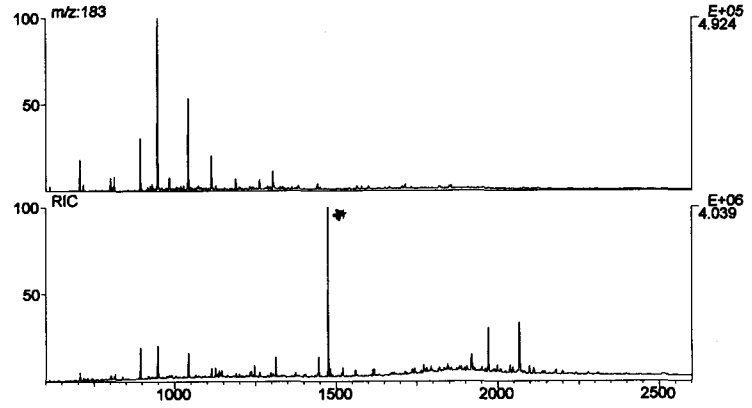
CHRO: em8223 28-MAY-97 Elapse: 00:40:18.6 950
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:26:09.1 498
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 501 > 2599 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:20:41.9 324
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppali/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



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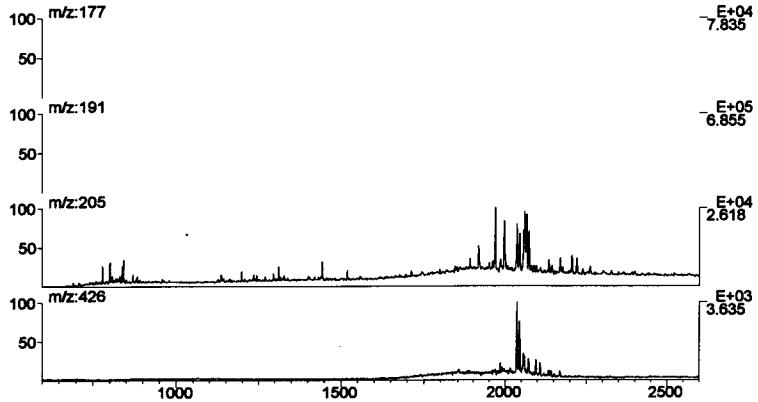
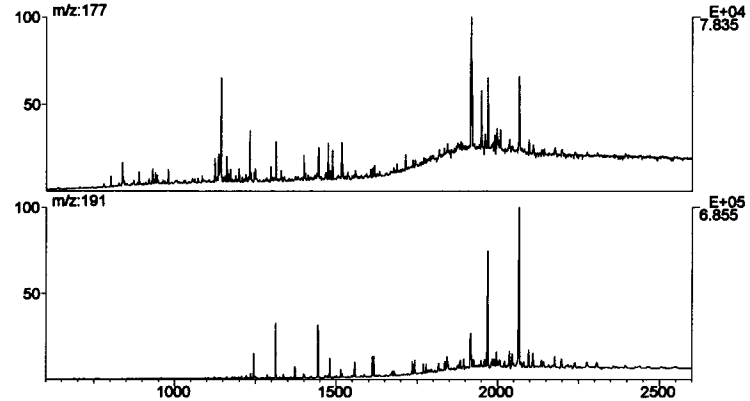
WELL: Natural Gas Co. 23-24 Federal
depth: 4978-4978.5 ft

* = Internal Standard $C_{24}D_{50}$

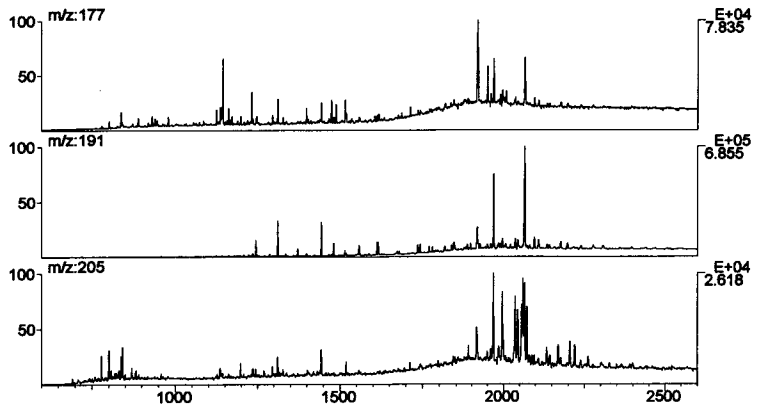
CHRO: em8223 28-MAY-97 Elapse: 00:40:18.6 950
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



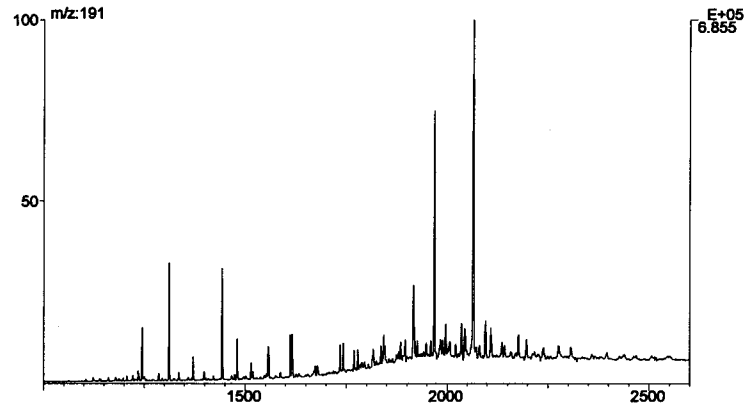
CHRO: em8223 28-MAY-97 Elapse: 00:45:42 1122
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:45:42 1122
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2600 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:40:31.7 957
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 1000 > 2600 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



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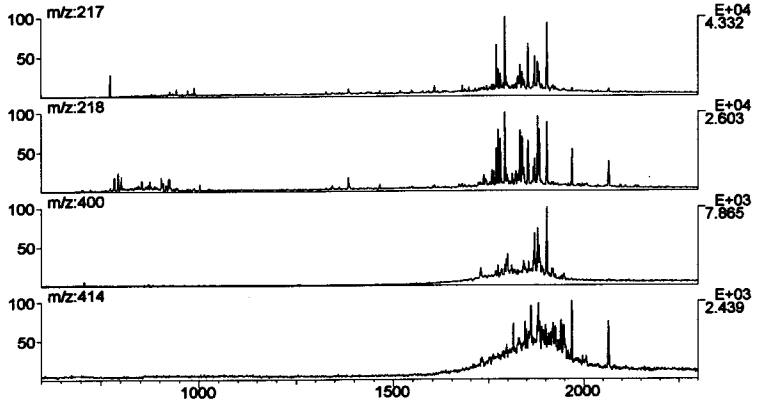
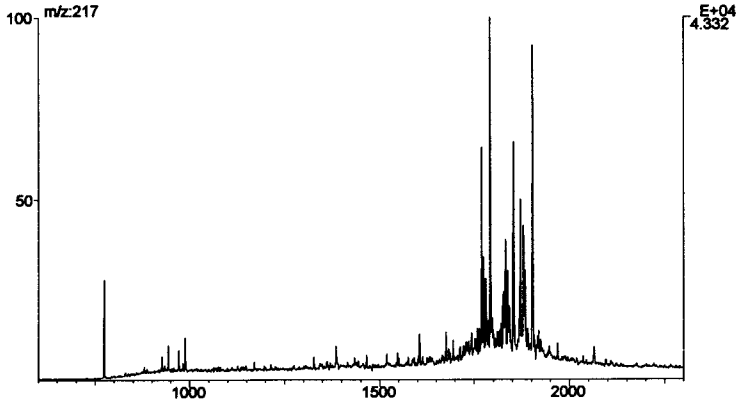
WELL: Natural Gas Co. 23-24 Federal
depth: 4978-4978.5 ft

* = Internal Standard $C_{24}D_{50}$

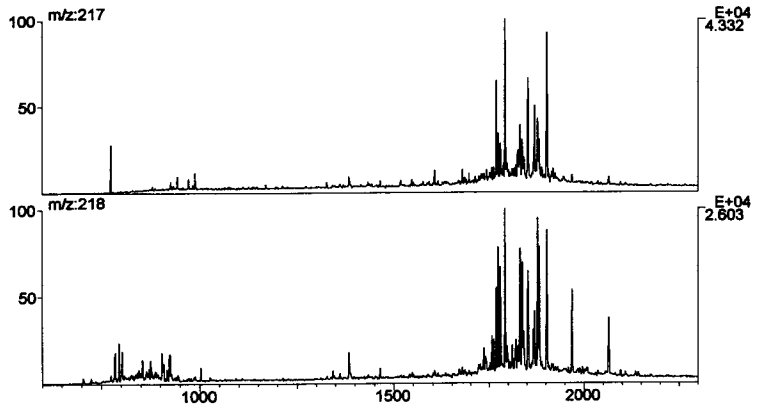
CHRO: em8223 28-MAY-97 Elapse: 00:40:31.7 957
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2300 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



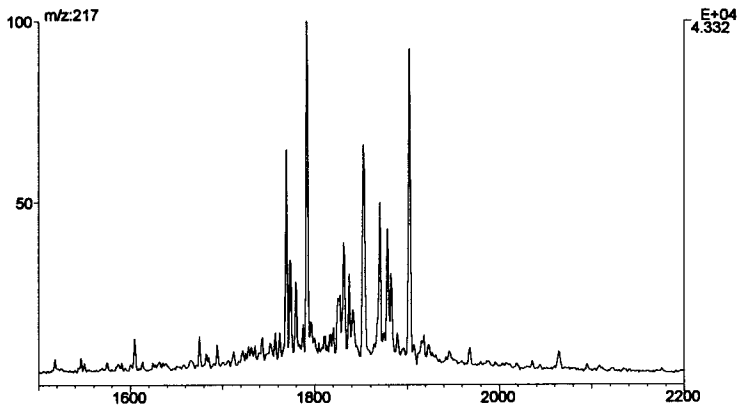
CHRO: em8223 28-MAY-97 Elapse: 00:34:42.2 771
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2300 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:40:31.7 957
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 600 > 2300 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:34:42.2 771
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppall/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 1500 > 2200 Masses: 95 > 426
Area: 10, 4.00 Baseline: 0, 5 Label: 0, 0.00
Disp: Height Area



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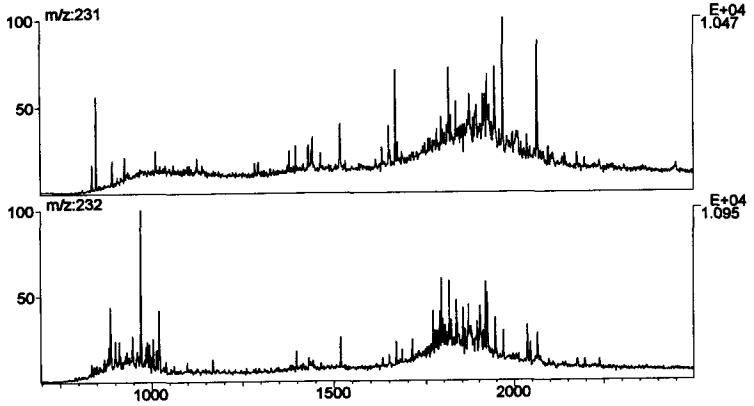
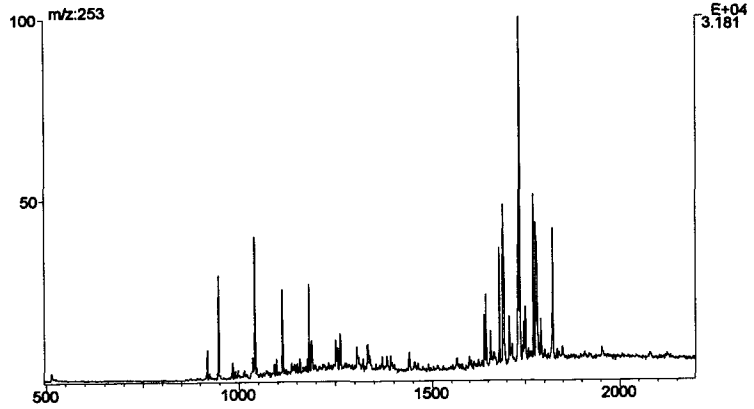
Natural Gas Co. 23-24 Federal
depth: 4978-4978.5 ft

* = Internal Standard $C_{24}D_{50}$

CHRO: em8223 28-MAY-97 Elapse: 00:44:49 1094
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppsl/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 697 > 2499 Masses: 95 > 426
Area: 10, 4.00 Baseline : 0, 5 Label : 0, 0.00
Disp: Height Area



CHRO: em8223 28-MAY-97 Elapse: 00:26:09.1 498
Samp: UB20E Nat. Gas 23-24 Federal 4978-4978. Start: 22:39:17 2856
Comm: gc=gc310 icl=rppsl/MID3 IS=C24D50
Mode: EI +Q3MS LMR UP LR Study: Uinta Basin
Oper: EM Client: EMueller Inlet: GC Vial 7
Peak: 1000.00 mmu Label wndw: 494 > 2198 Masses: 95 > 426
Area: 10, 4.00 Baseline : 0, 5 Label : 0, 0.00
Disp: Height Area



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