Appendix G

Qualitative GC/MS Analytical

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QUALITATIVE ANALYSIS METHOD USING
GAS CHROMATOGRAPHY MASS SPECTROMETRY
REGIONAL ANALYTICAL SERVICES
JACKSON LABORATORY, RM 2104

DESCRIPTION

The following method is used for the qualitative analysis of received, post-oxidation, and precipitated NCH samples.

INSTRUMENT

Agilent 6890 GC interfaced to a 5973N MSD operating in electrospray ionization mode.

COLUMN

HP-5 (30m, 0.25 mm ID fused silica coated with 1 um film thickness, 5% phenyl methylsiloxane bonded stationary phase)

INSTRUMENT PARAMETERS

Split Ratio	50:1
Inlet Temperature	150°C
Flow Rate	1.0 mL/min
Injection Volume	1 uL
MSD Transfer Line Heater	300°C
Initial Column Temperature	40°C
Pre-Program Hold	5 min
Temperature Ramp	10°C/min to 280°C, 15 min hold
MSD Scan Parameters	300 – 800 amu, threshold 150

SAMPLE PREPARATION

Samples are analyzed neat.

RESULTS

Qualitative analysis of 16% NCH samples as received, after oxidation, and after precipitation are shown below.

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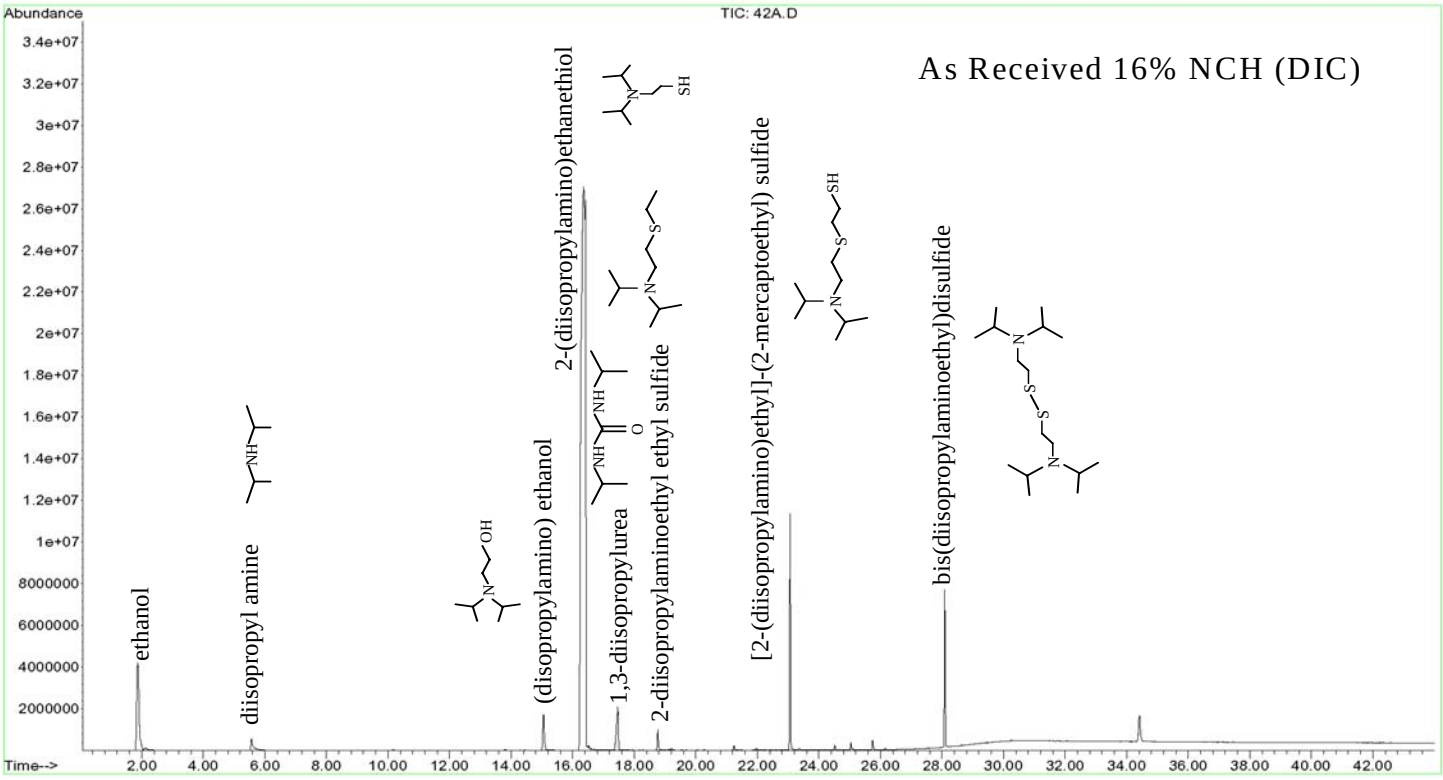

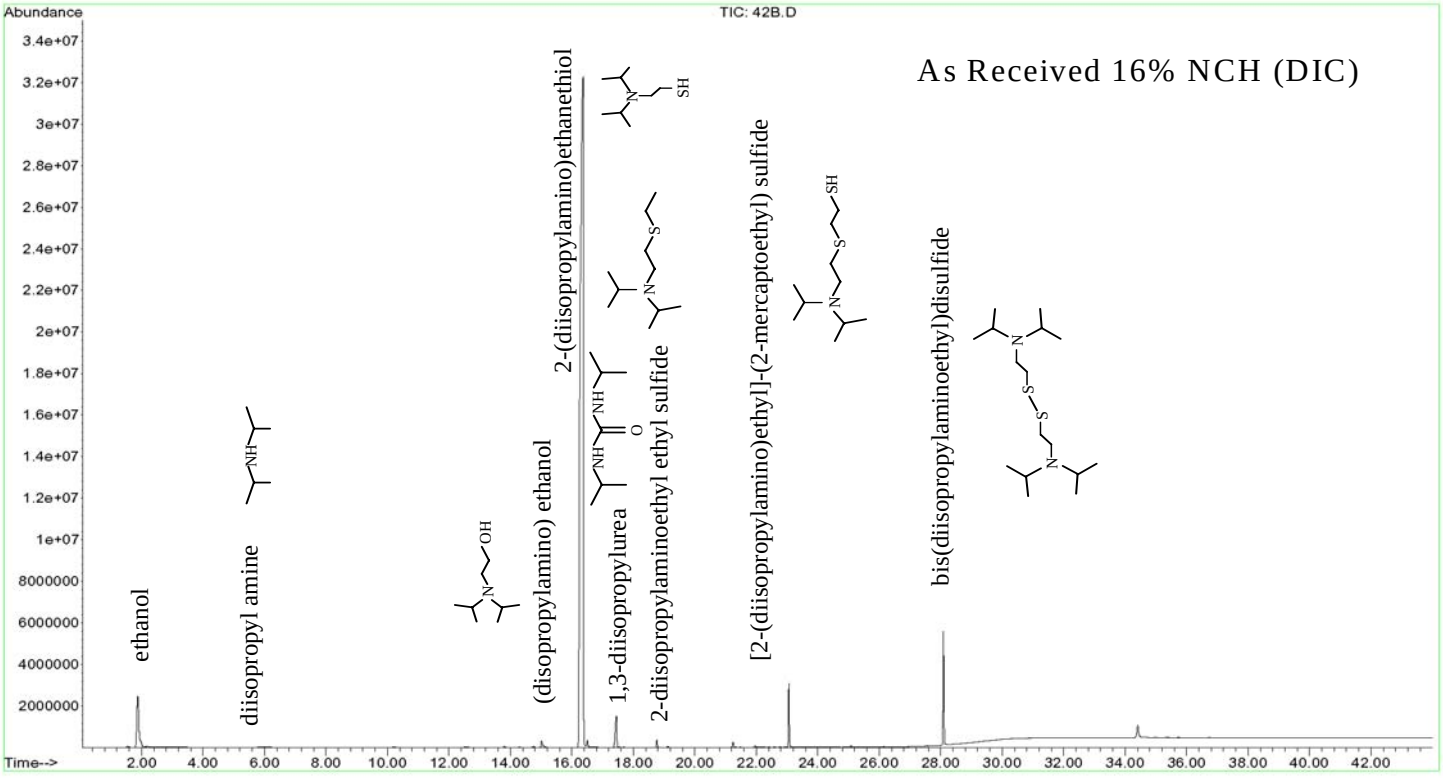

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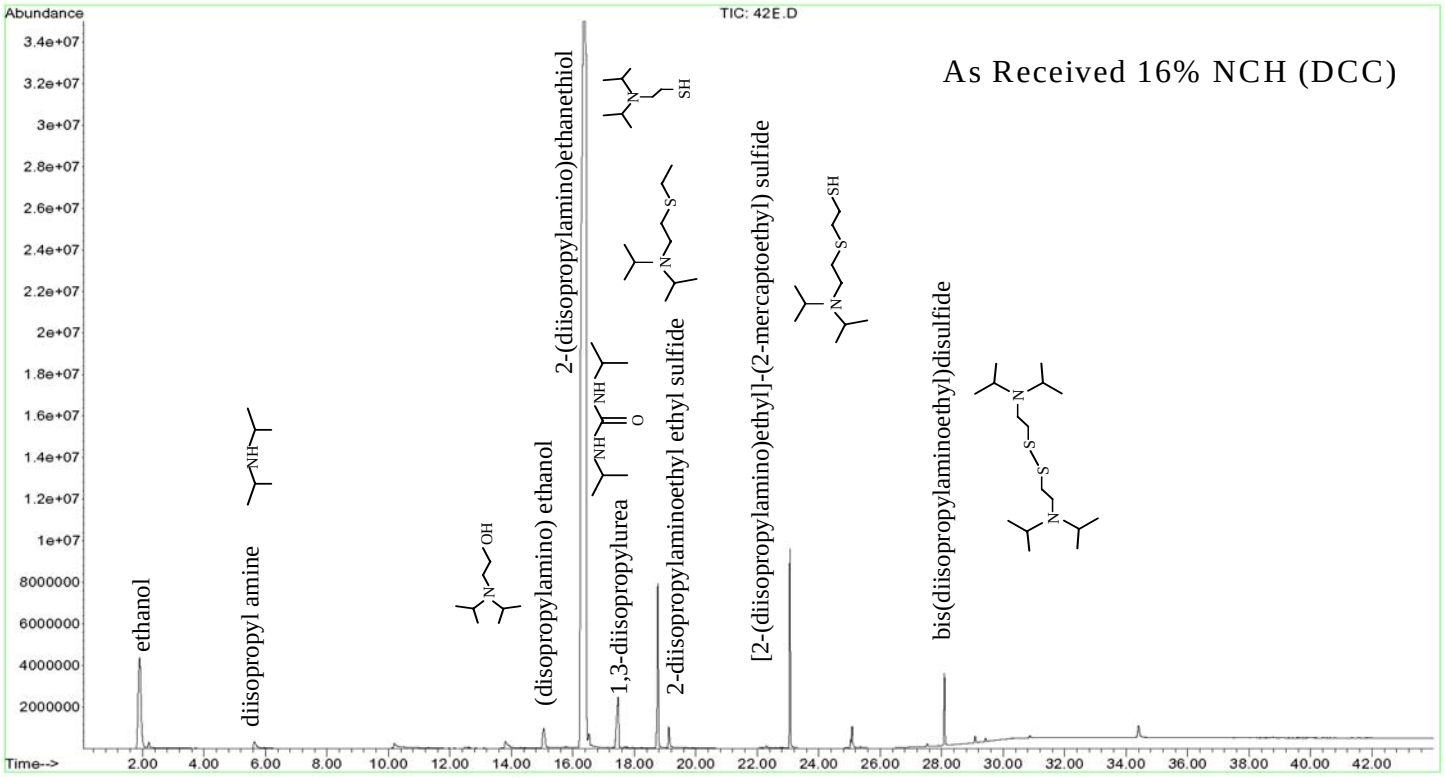

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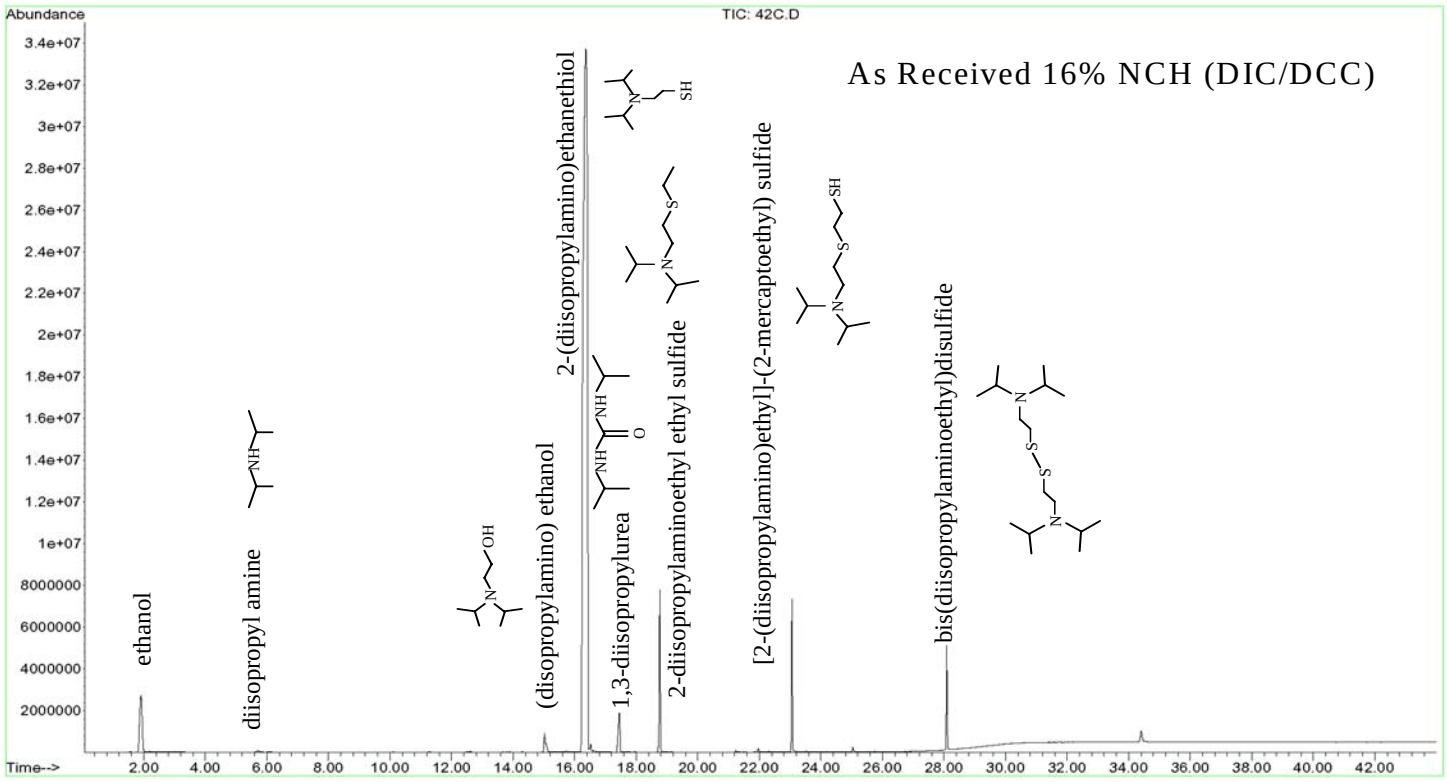

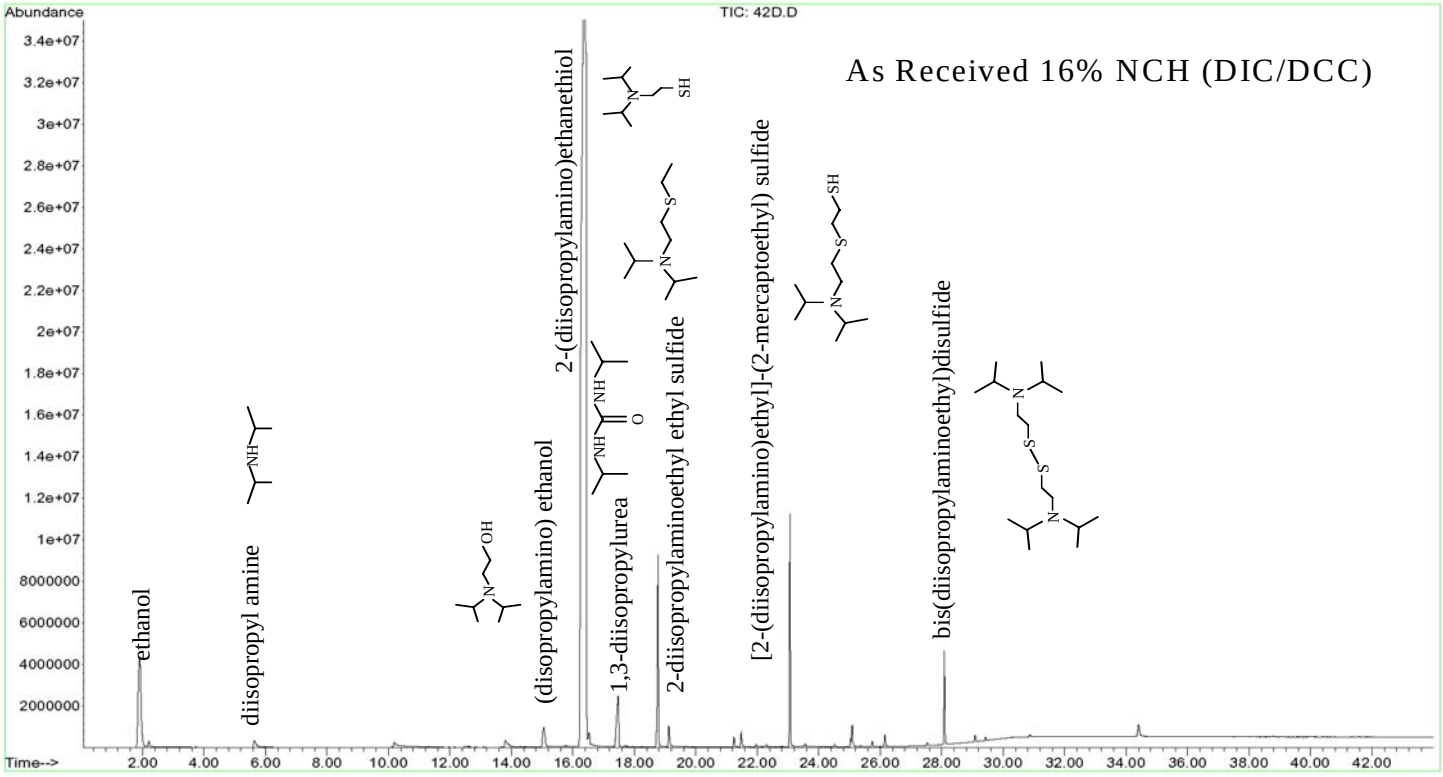

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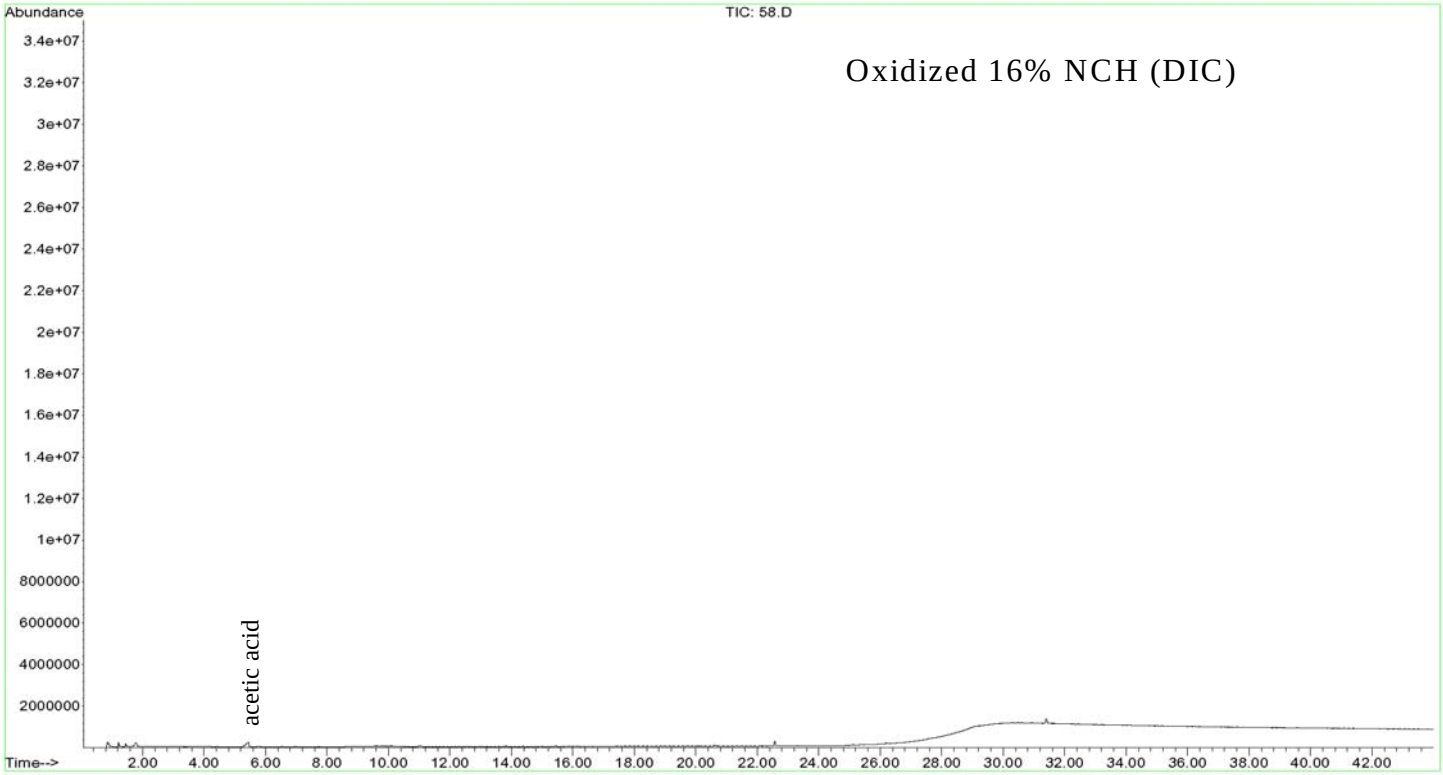

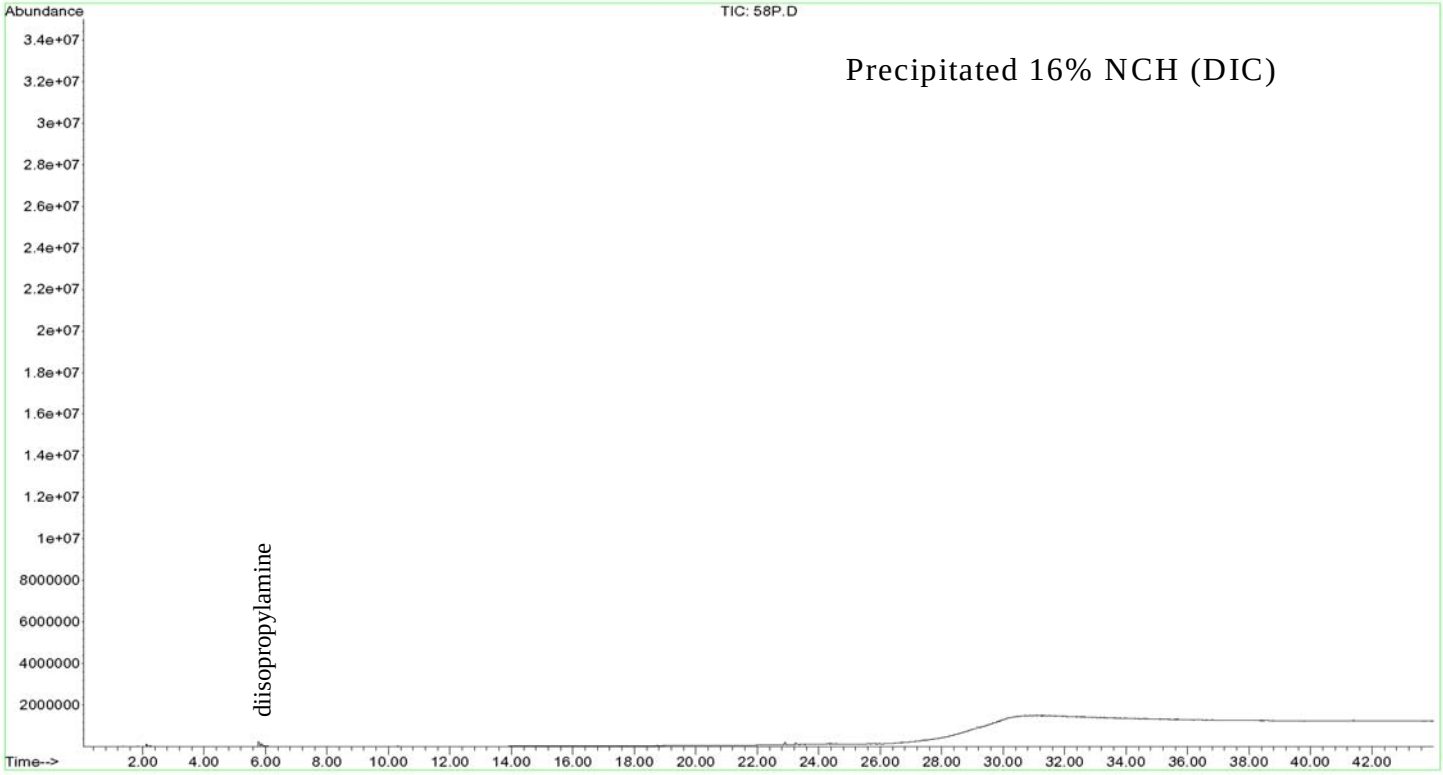

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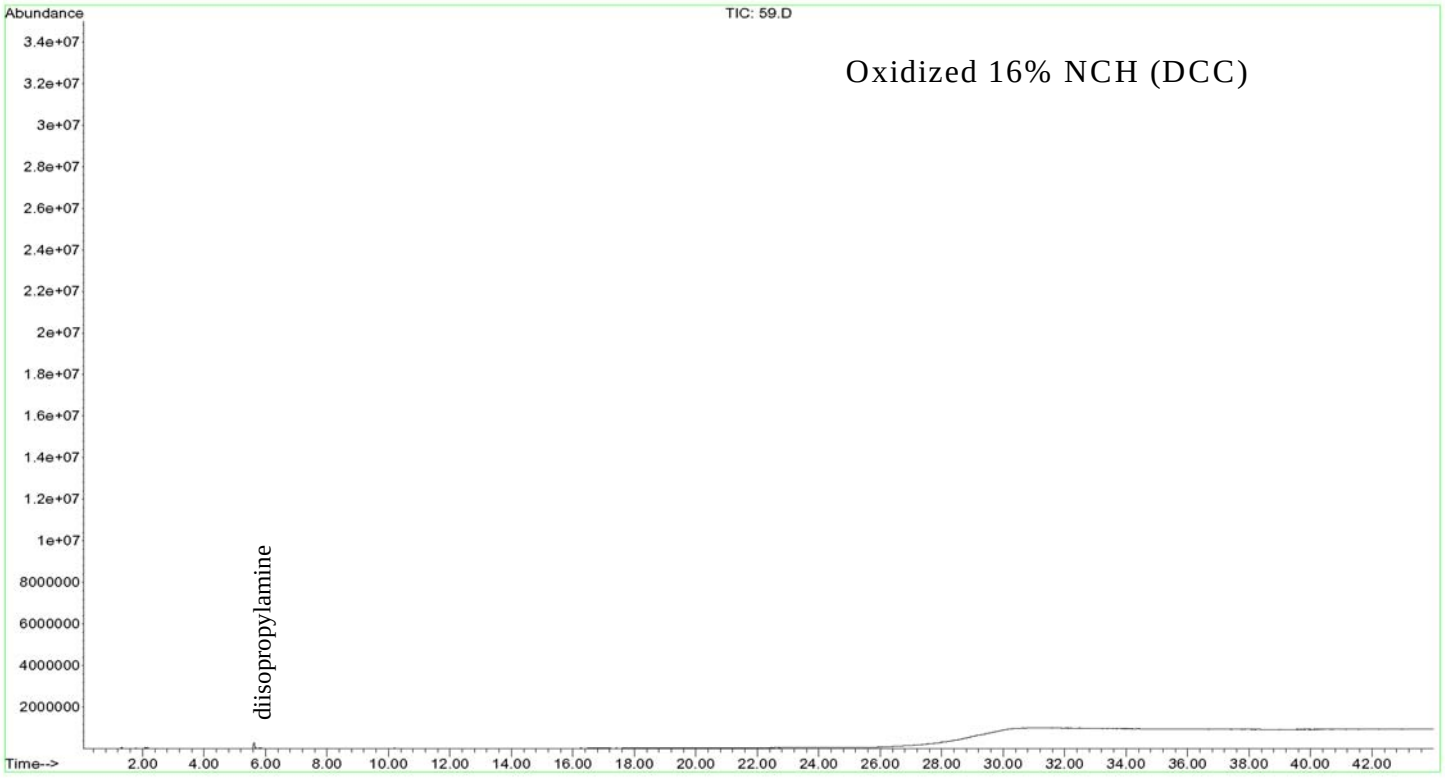

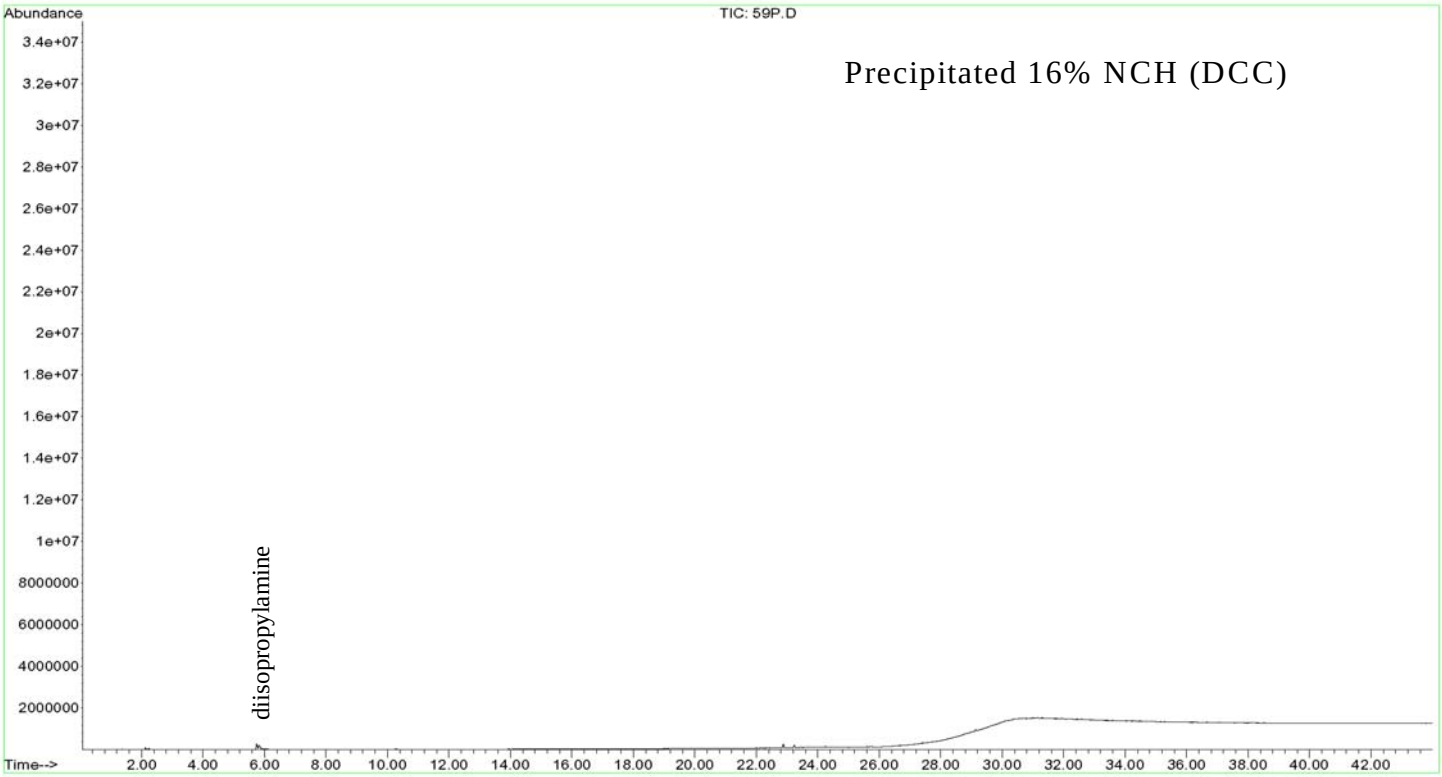

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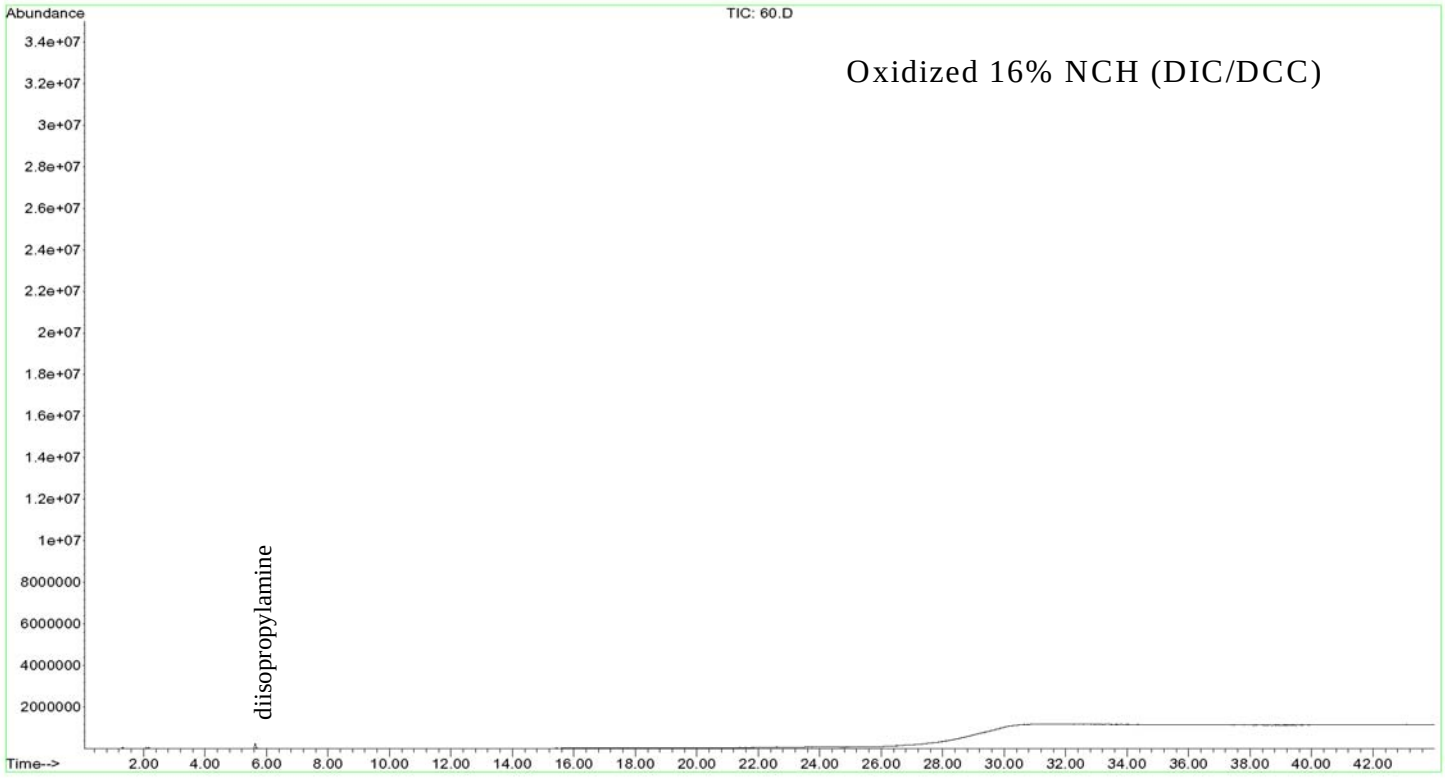
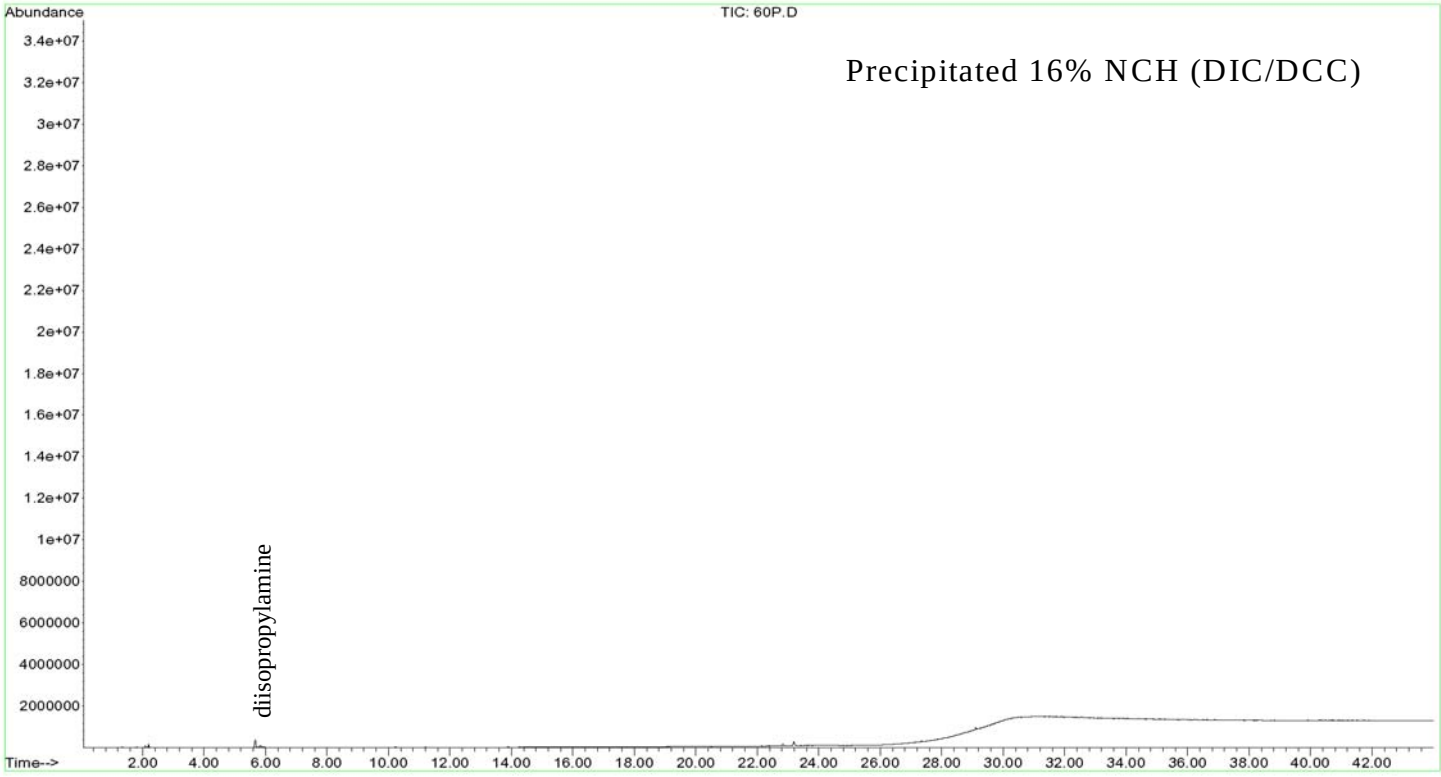


Oxidized 16% NCH (DIC/DCC)



Precipitated 16% NCH (DIC/DCC)

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