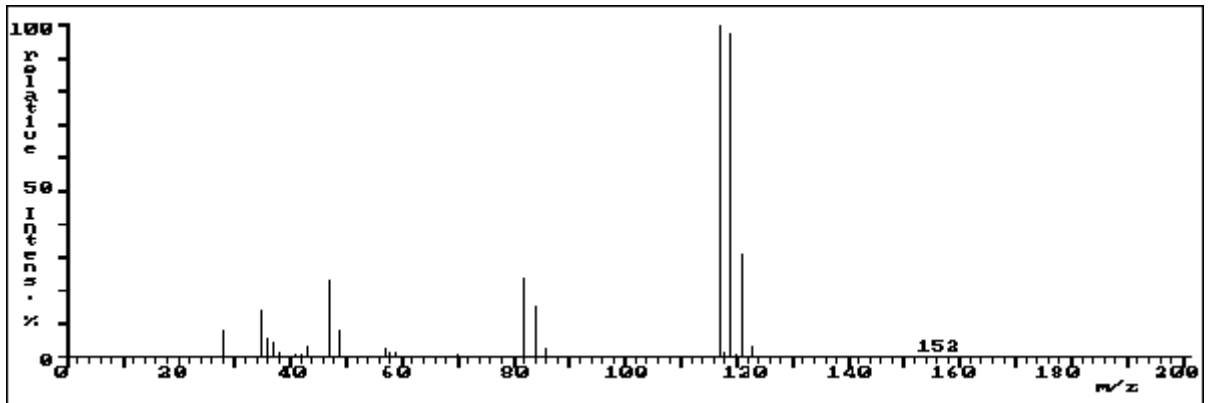


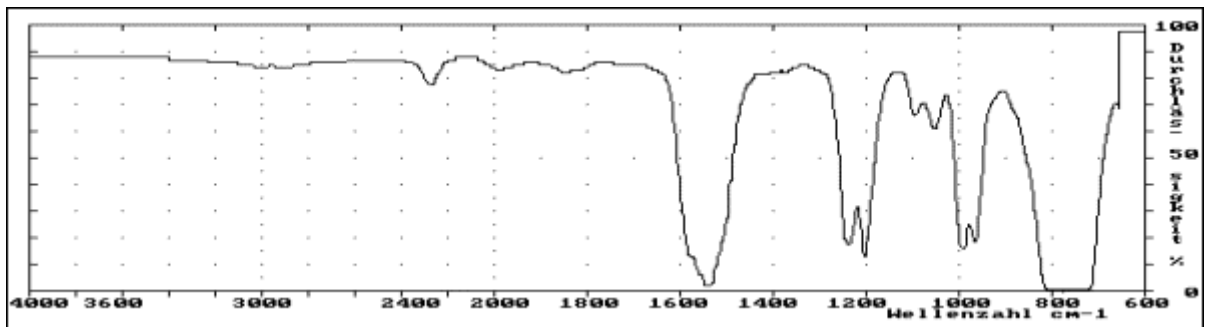
1. Quantitative Analyse:

C: 07.79 %	H:	O:				enthält: C, Cl
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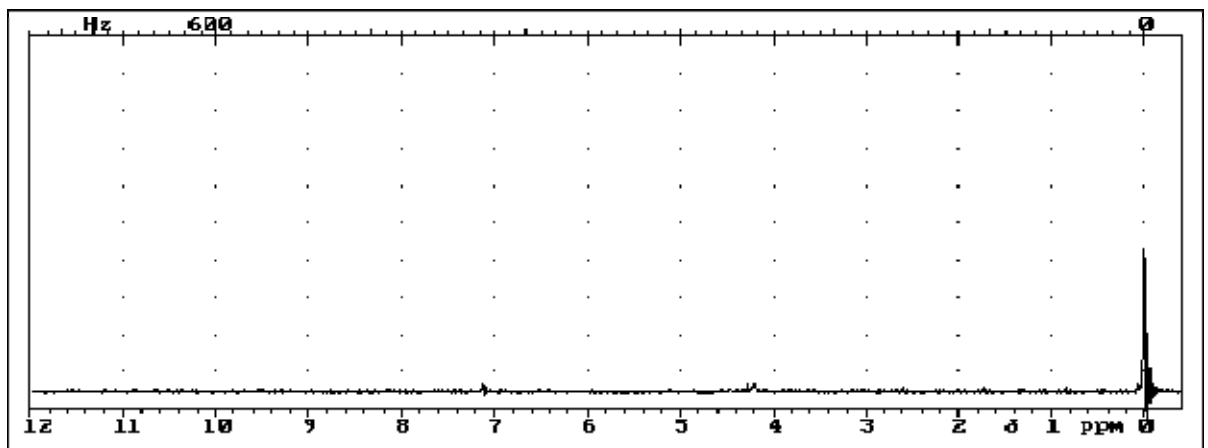
2. MS-Spektrum



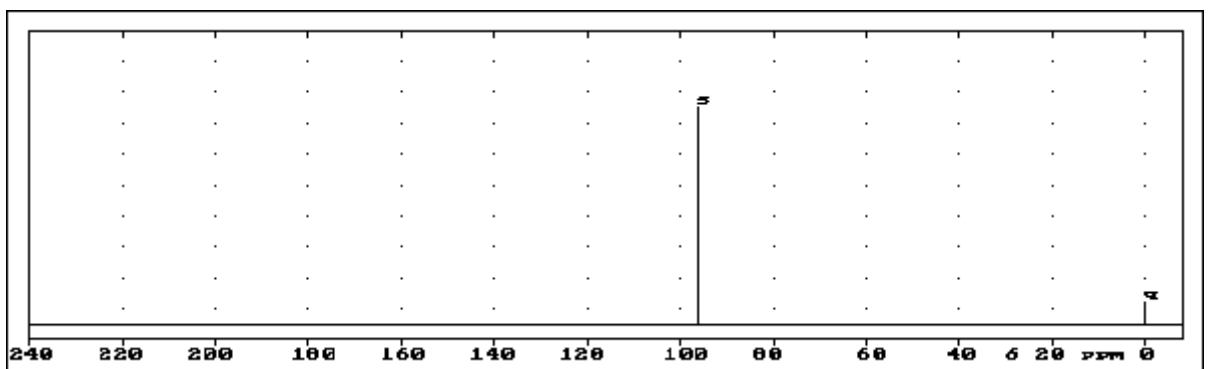
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



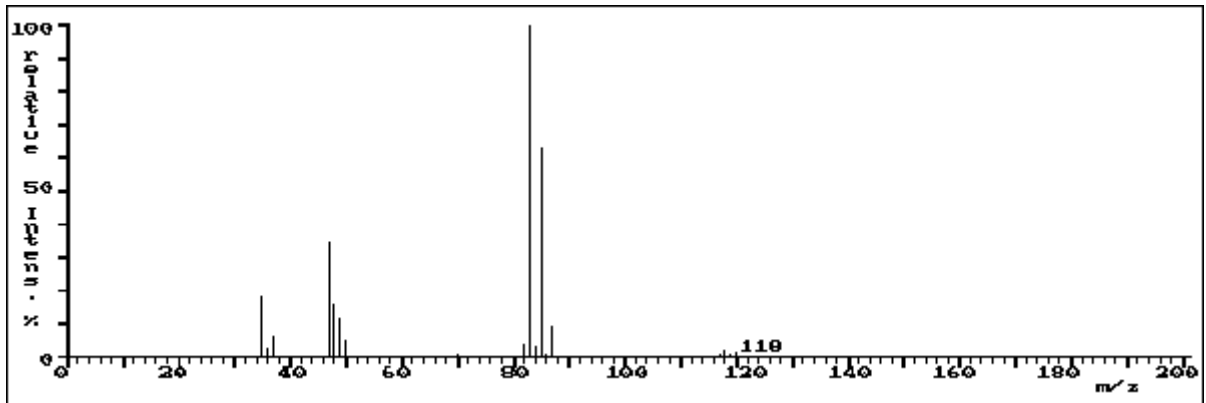
5. <sup>13</sup>C-NMR-Spektrum:



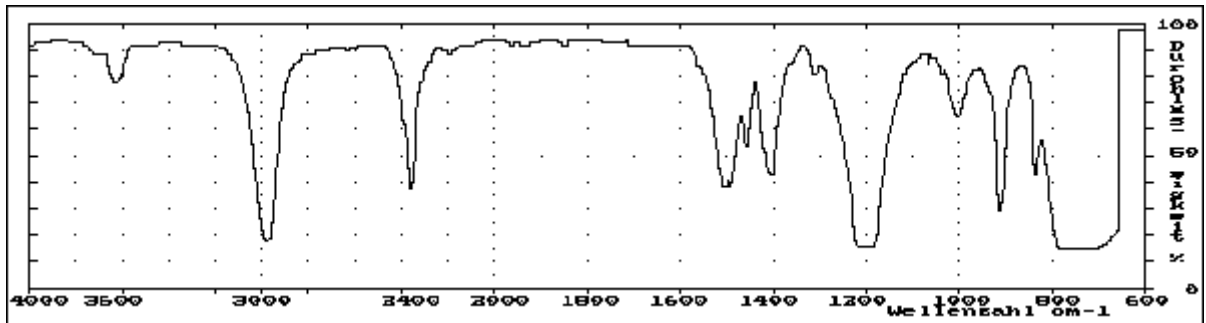
1. Quantitative Analyse:

C: 10.04 %	H: 00.84 %	O:				enthält: C, H, Cl
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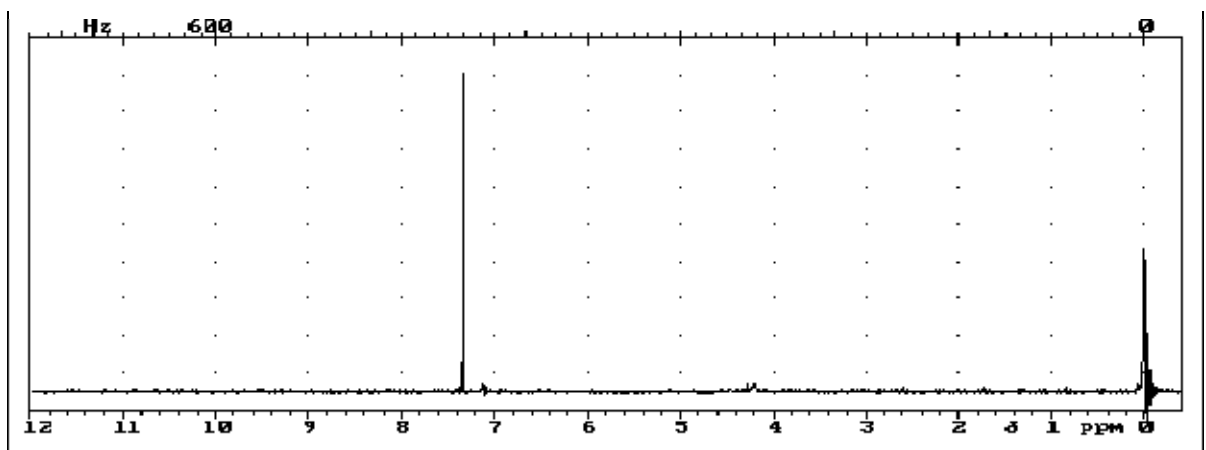
2. MS-Spektrum



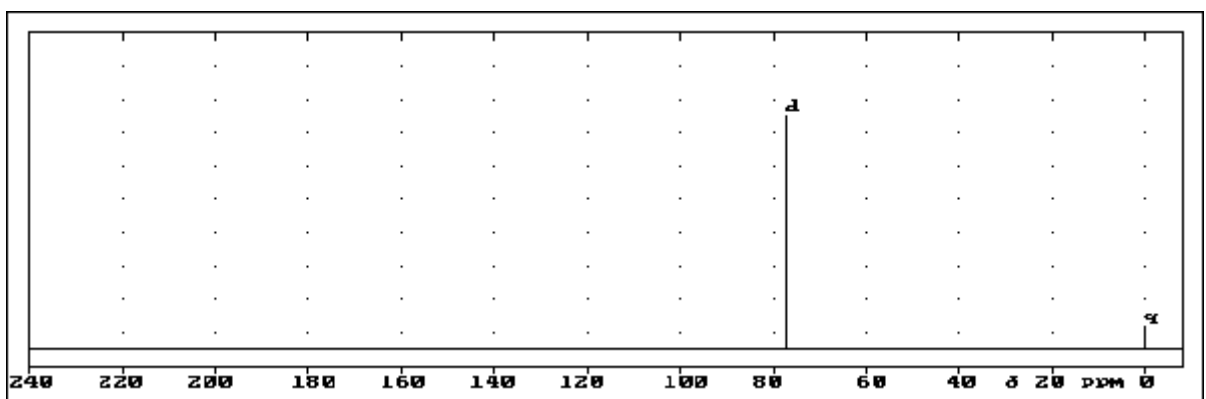
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



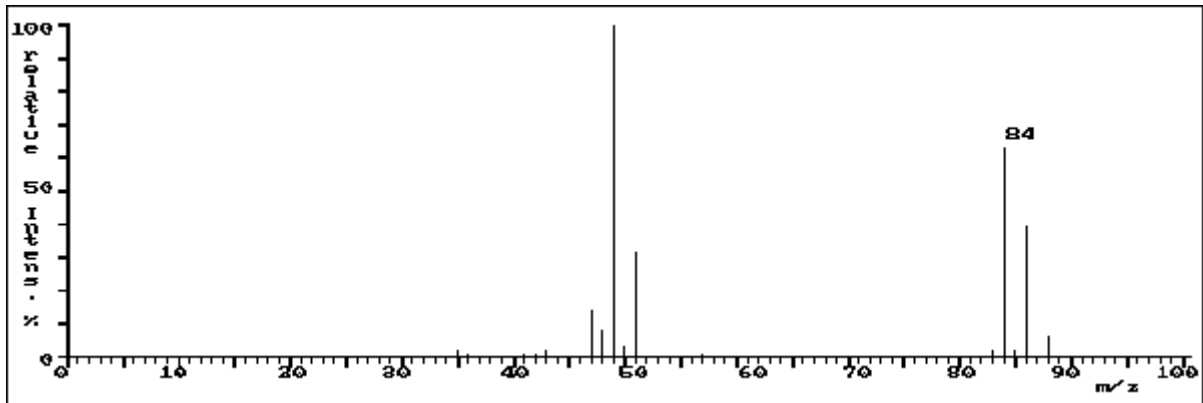
5. <sup>13</sup>C-NMR-Spektrum:



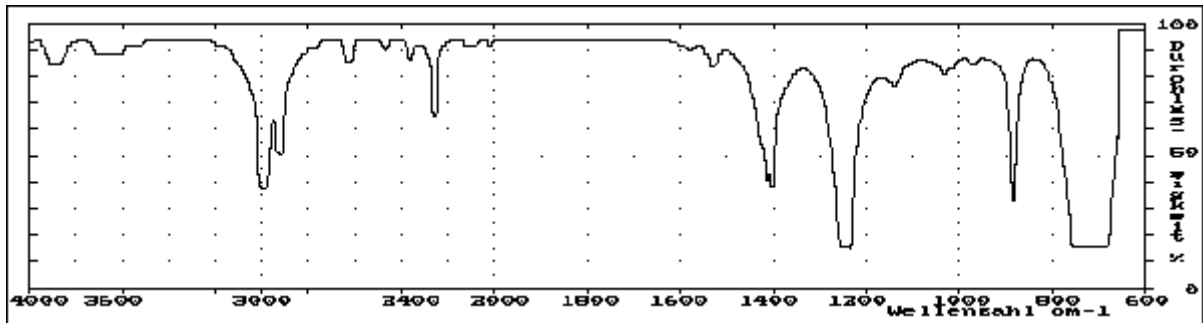
1. Quantitative Analyse:

C: 14.12 %	H: 02.35 %	O:				enthält: C, H, Cl
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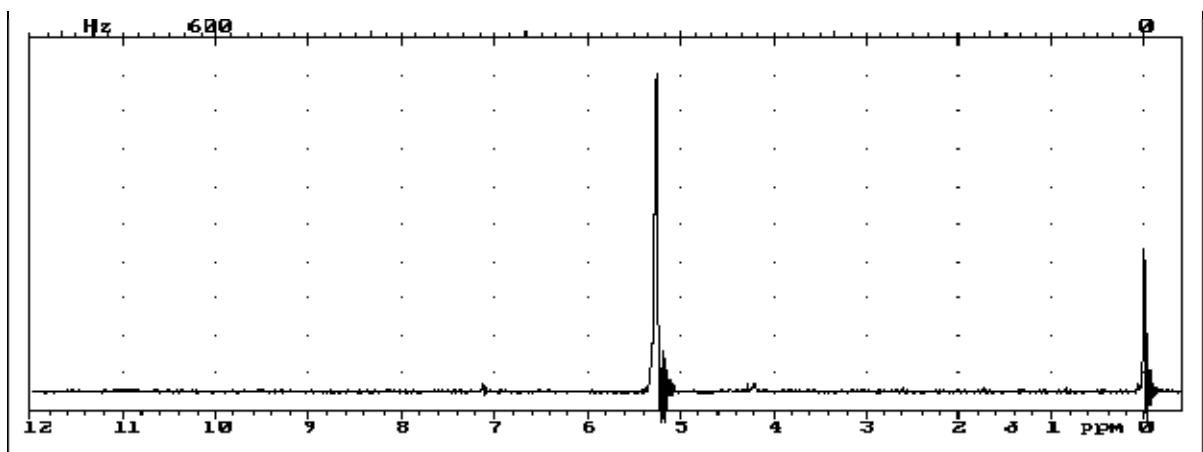
2. MS-Spektrum



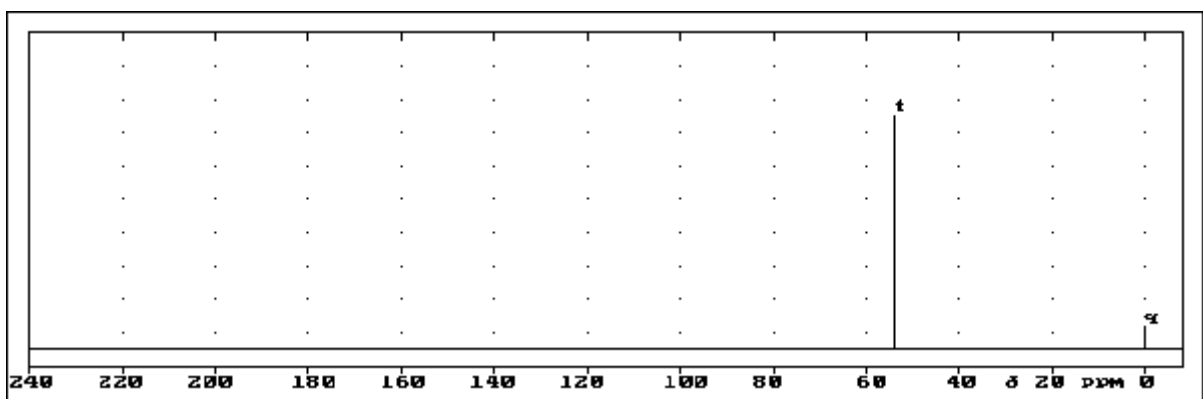
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



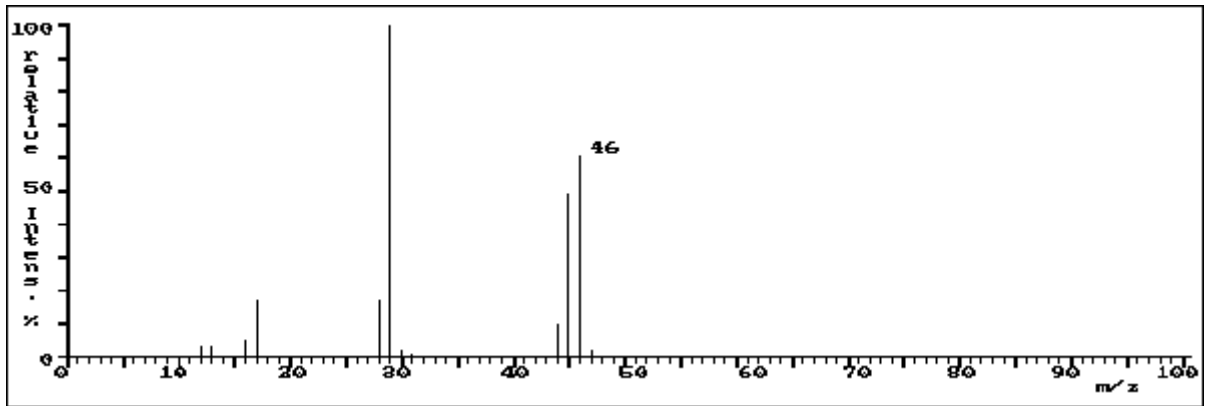
5. <sup>13</sup>C-NMR-Spektrum:



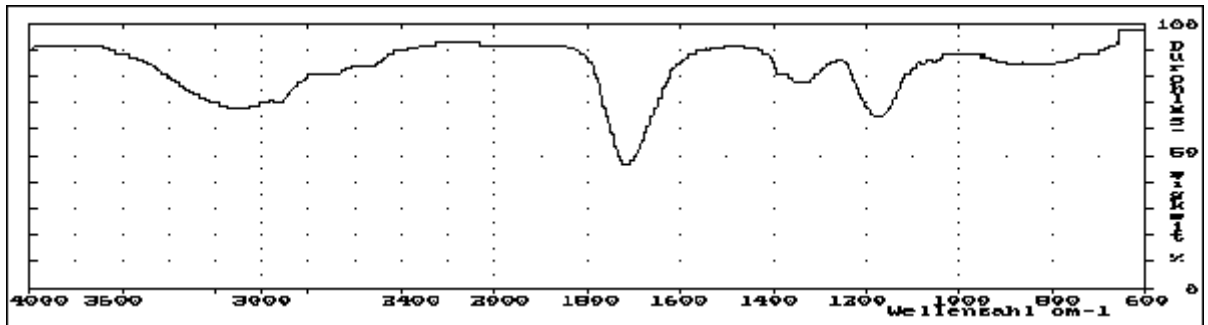
1. Quantitative Analyse:

C: 26.09 %	H: 04.35 %	O:				enthält: C, H, O
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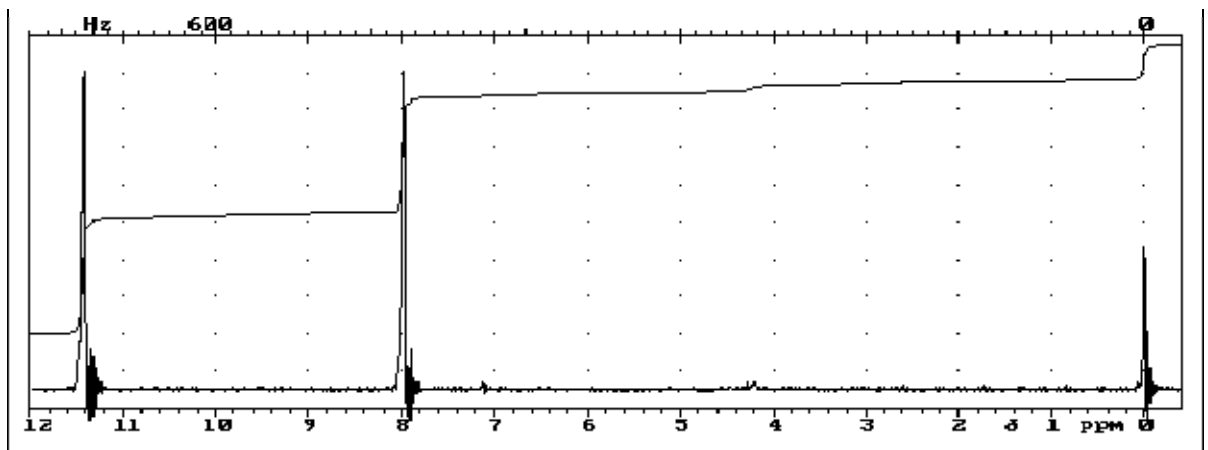
2. MS-Spektrum



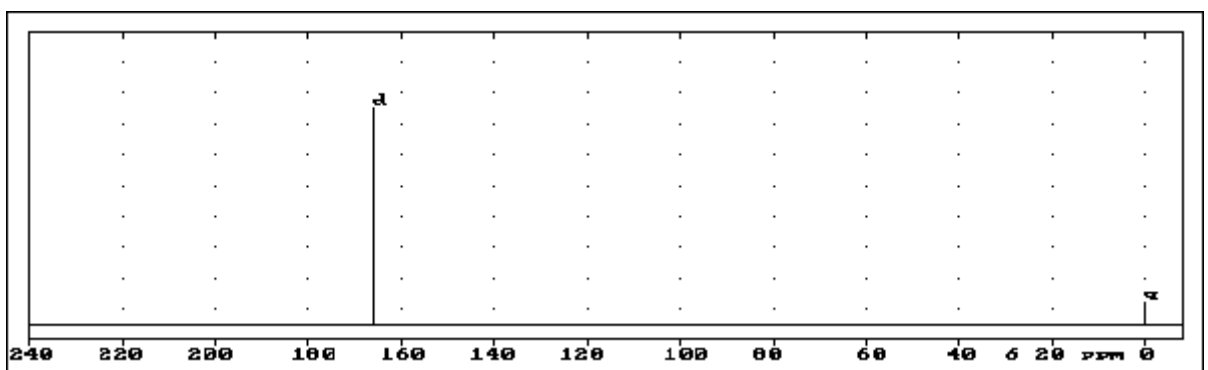
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



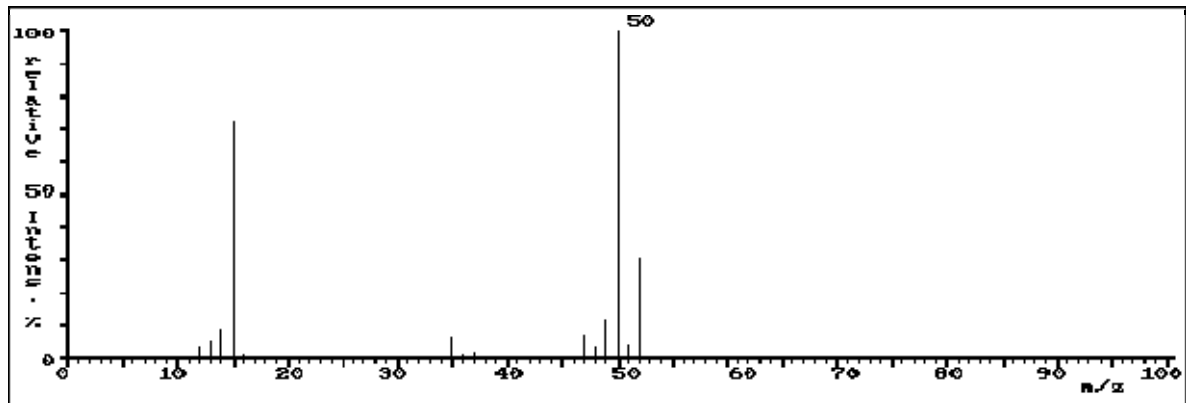
5. <sup>13</sup>C-NMR-Spektrum:



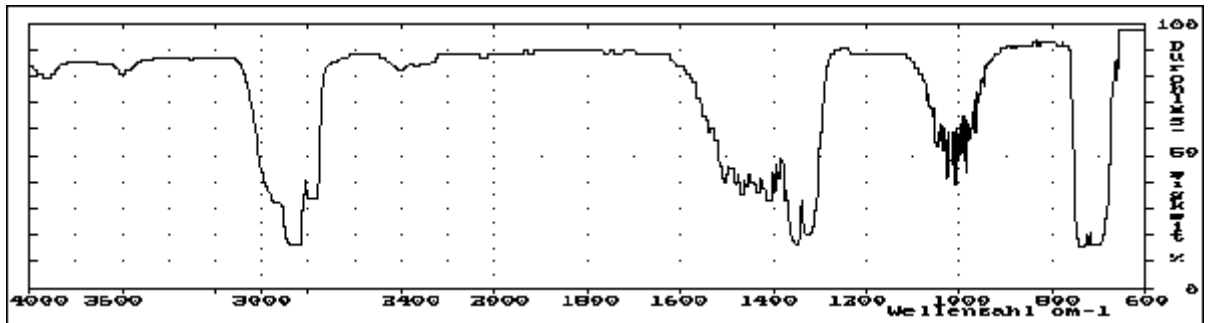
1. Quantitative Analyse:

C: 23.76 %	H: 05.94 %	O:				enthält: C, H, Cl
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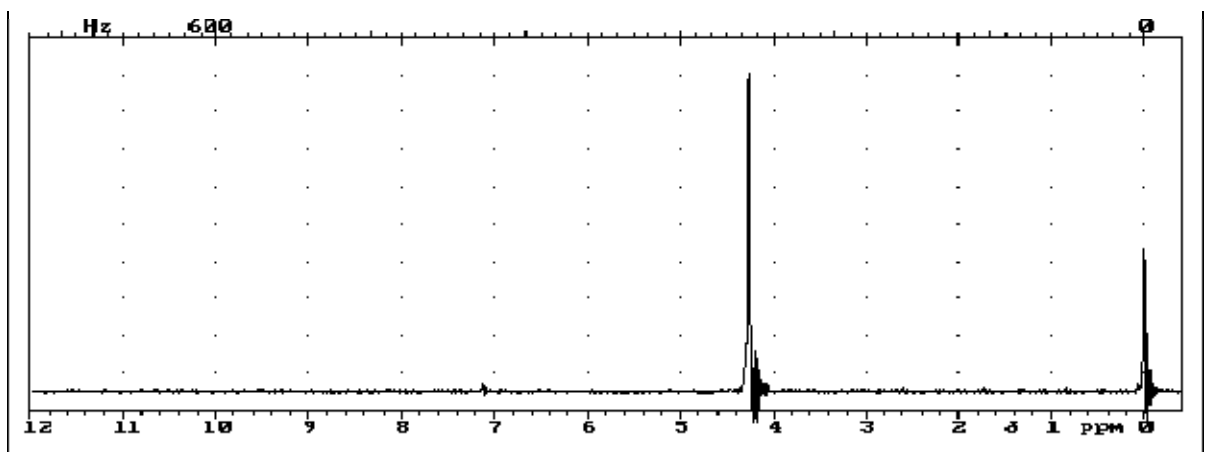
2. MS-Spektrum



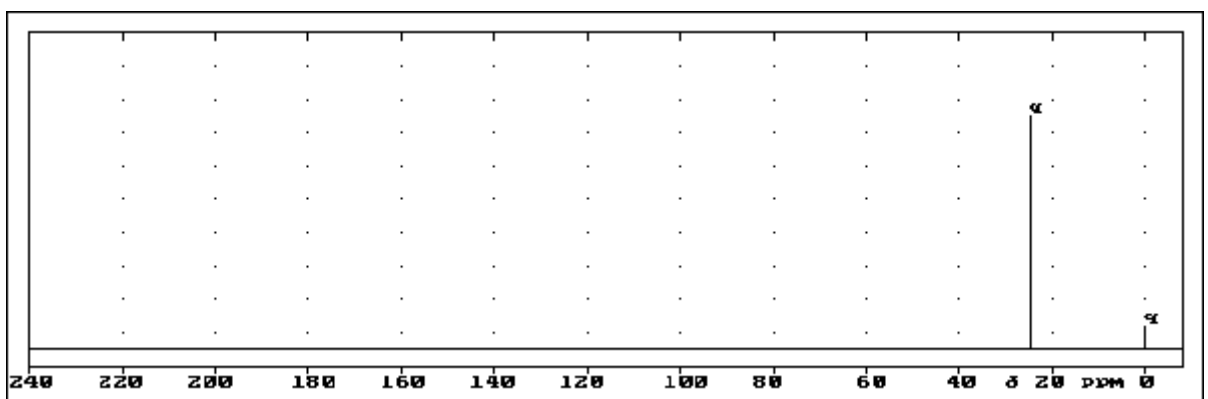
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



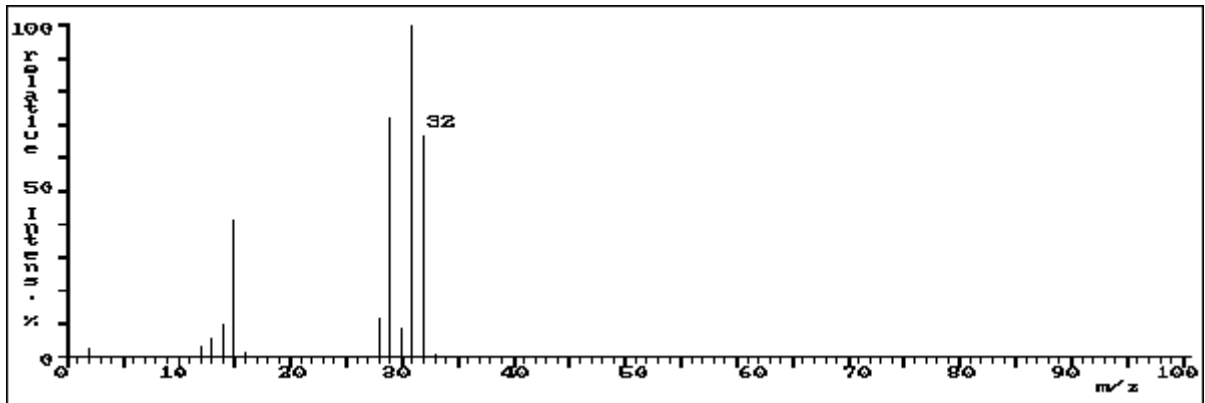
5. <sup>13</sup>C-NMR-Spektrum:



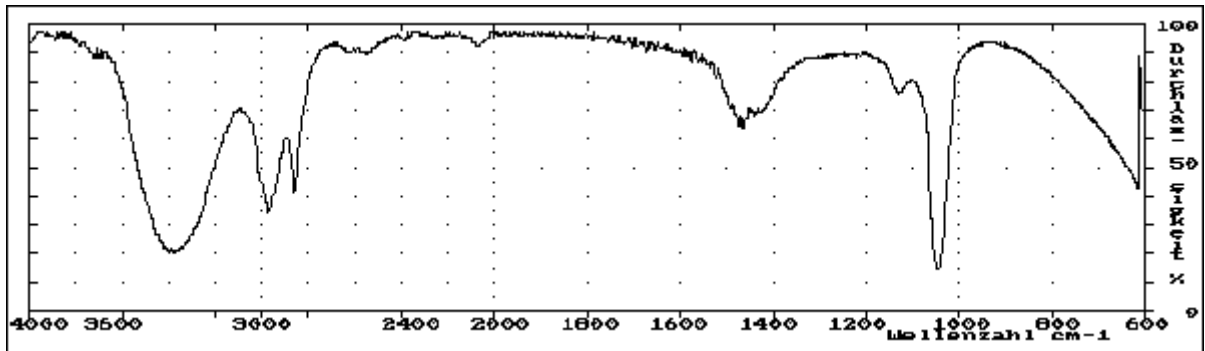
1. Quantitative Analyse:

C: 37.49 %	H: 12.58 %	O:				enthält: C, H, O
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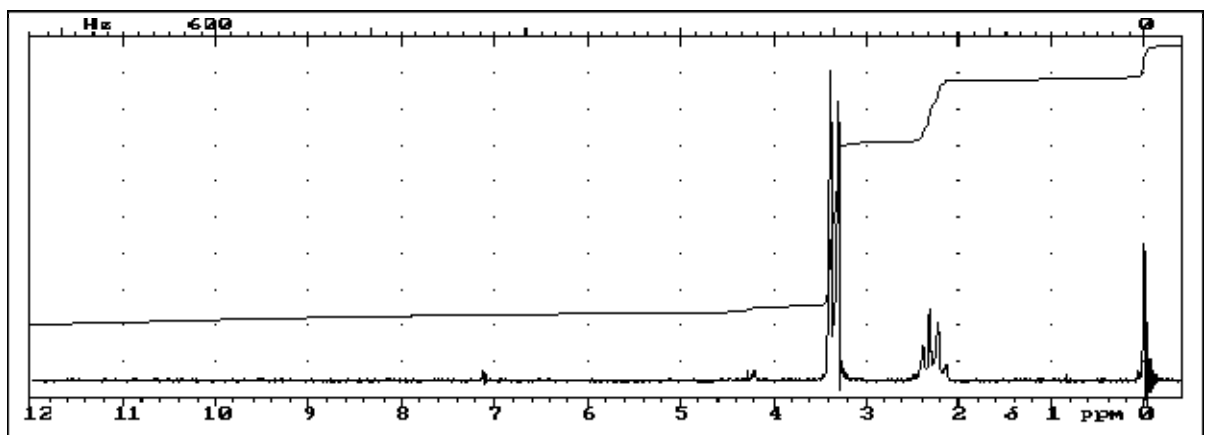
2. MS-Spektrum



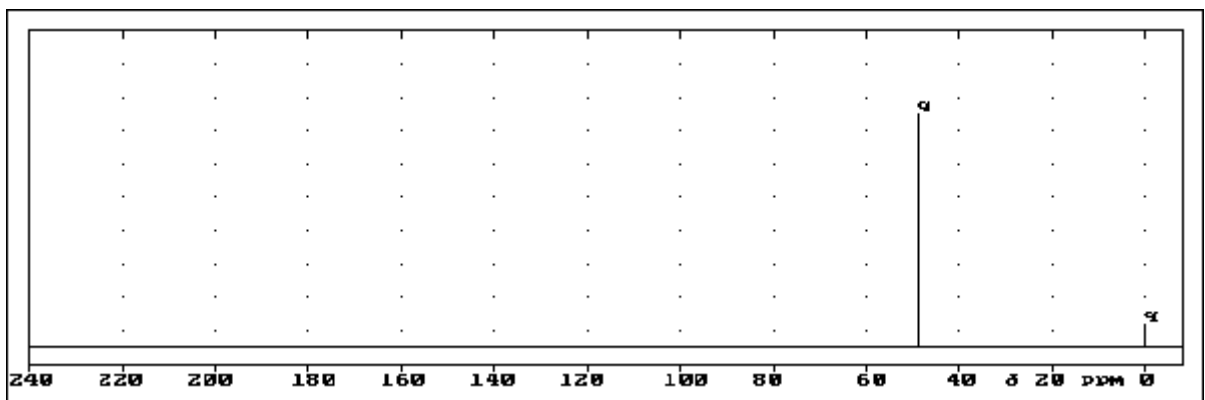
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



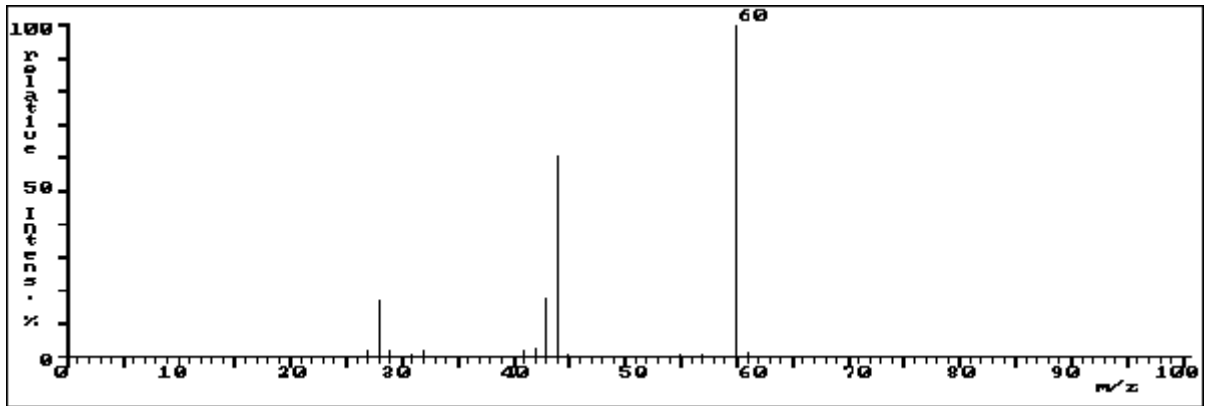
5. <sup>13</sup>C-NMR-Spektrum:



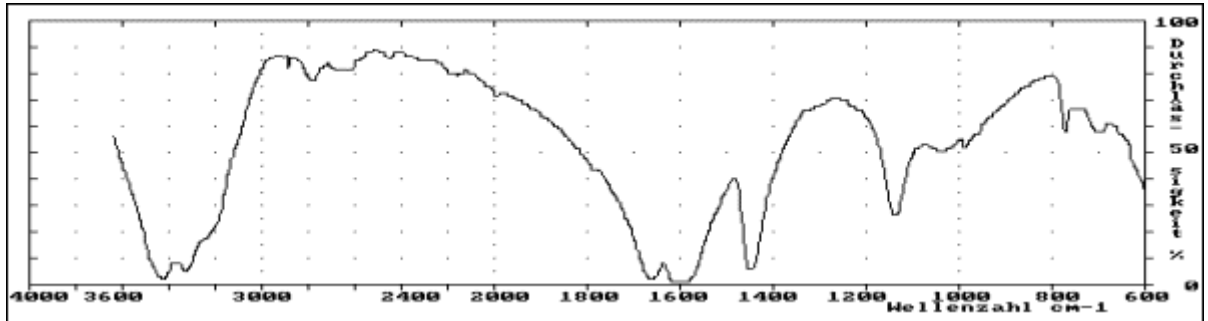
1. Quantitative Analyse:

C: 20.00 %	H: 06.71 %	O:				enthält: C, H, N, O
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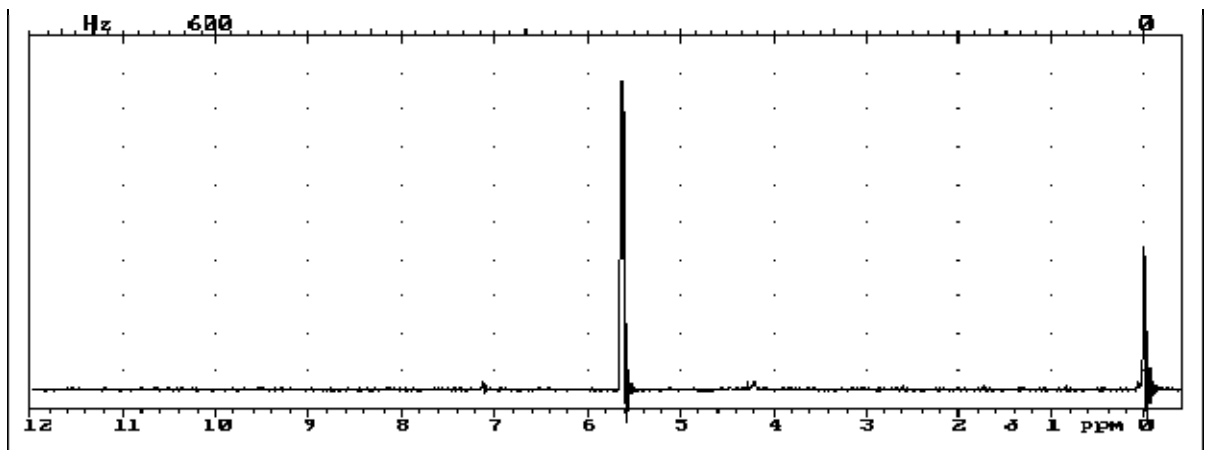
2. MS-Spektrum



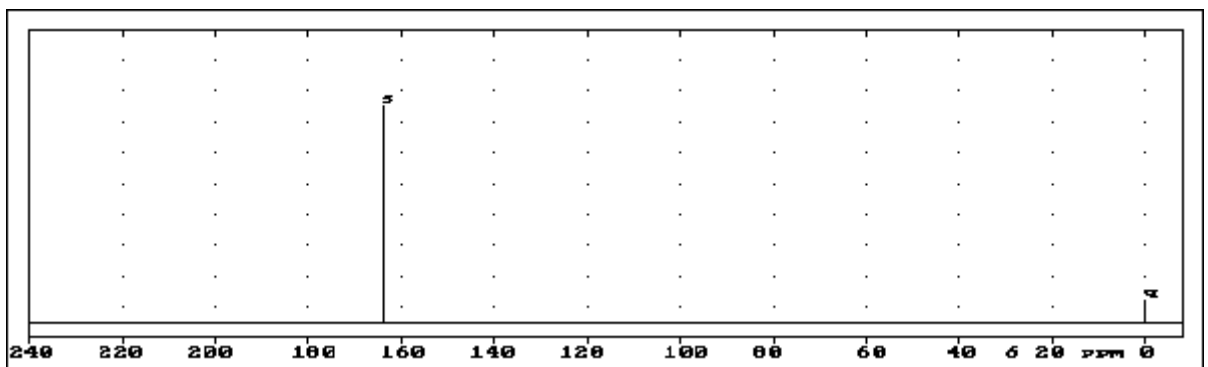
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



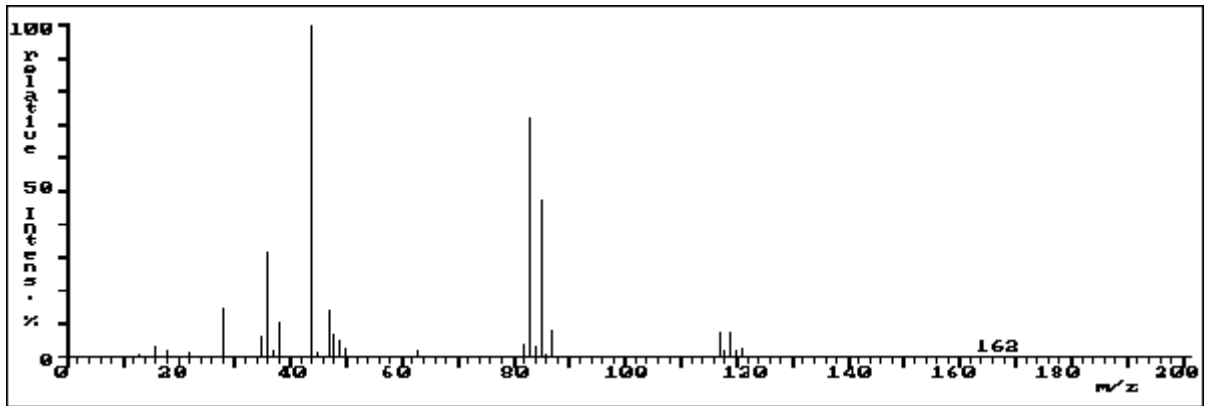
5. <sup>13</sup>C-NMR-Spektrum:



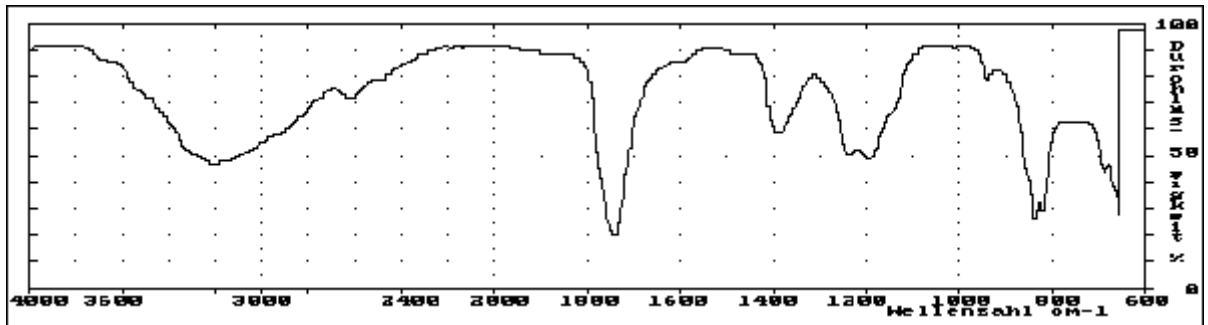
1. Quantitative Analyse:

C: 14.70 %	H: 00.62 %	O:				enthält: C, H, Cl, O
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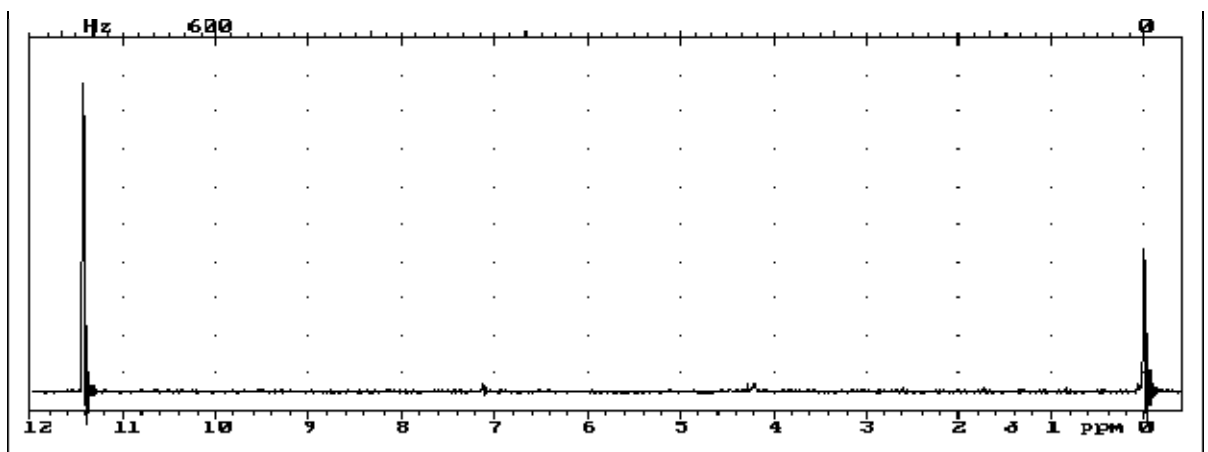
2. MS-Spektrum



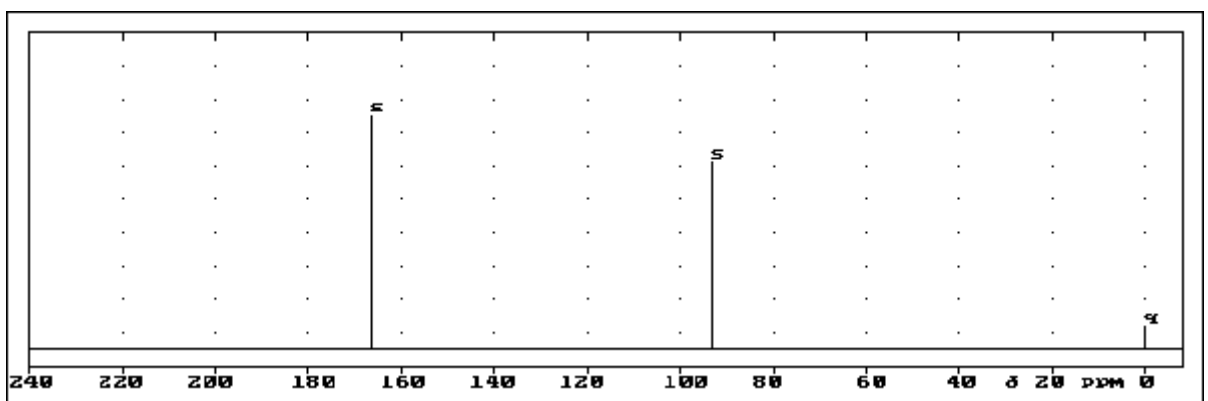
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

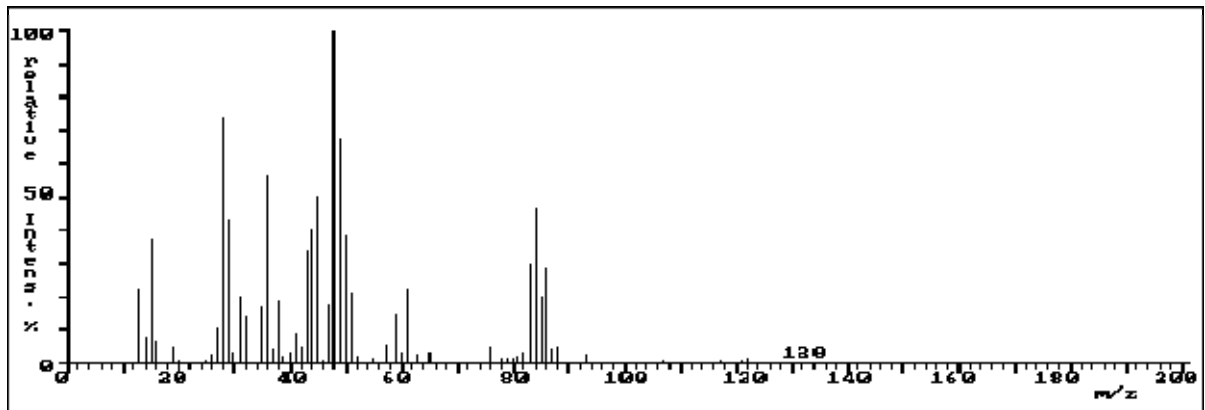




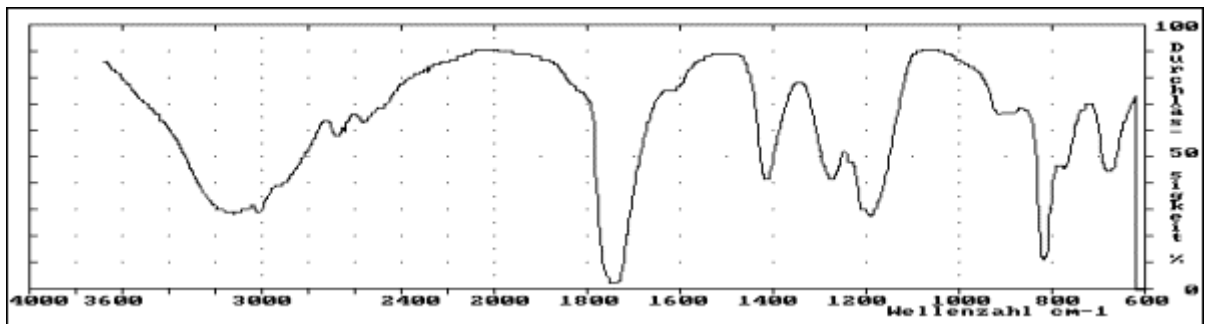
1. Quantitative Analyse:

C: 18.63 %	H: 01.56 %	O:				enthält: C, H, Cl, O
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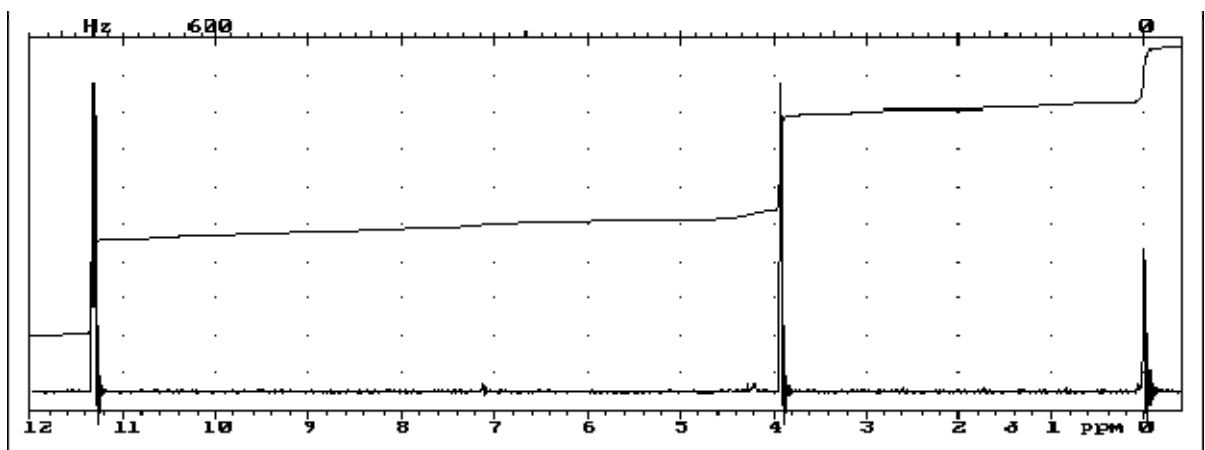
2. MS-Spektrum



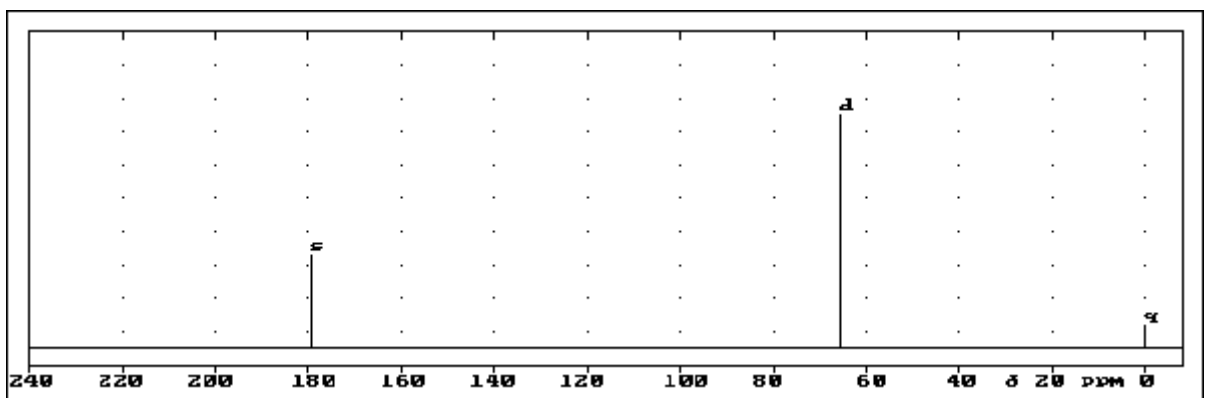
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



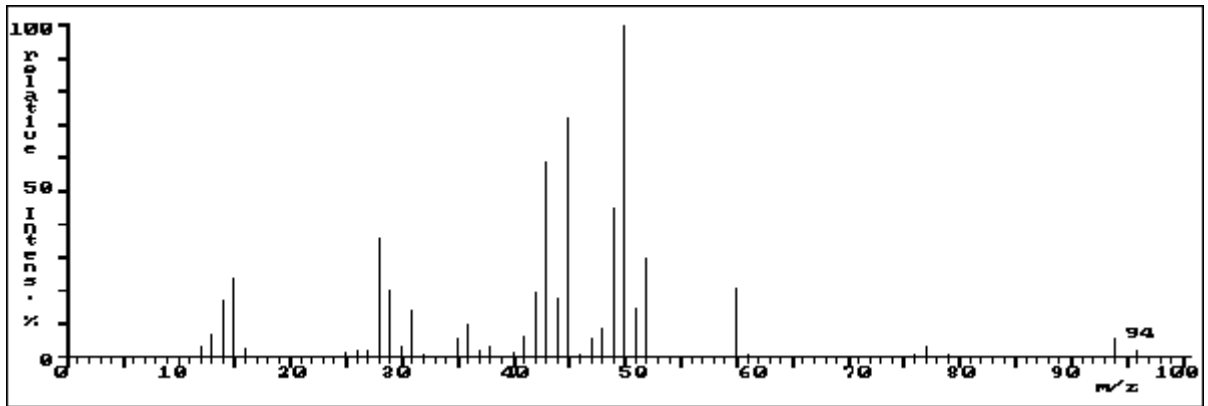
5. <sup>13</sup>C-NMR-Spektrum:



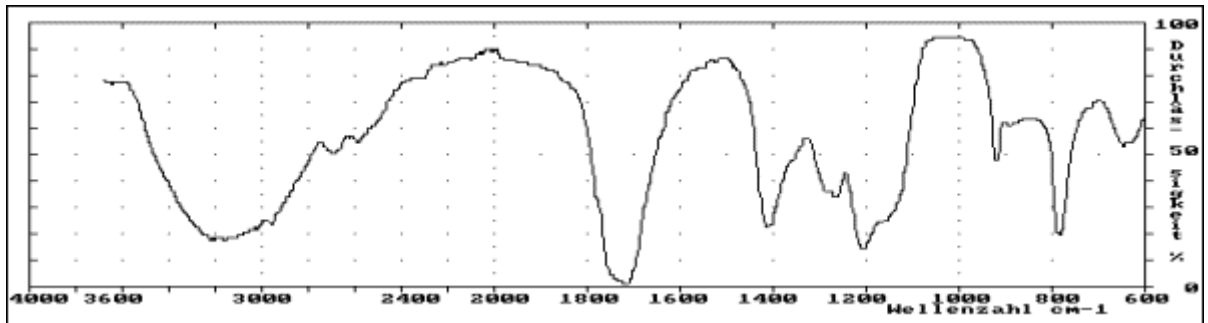
1. Quantitative Analyse:

C: 25.42 %	H: 03.20 %	O:				enthält: C, H, Cl, O
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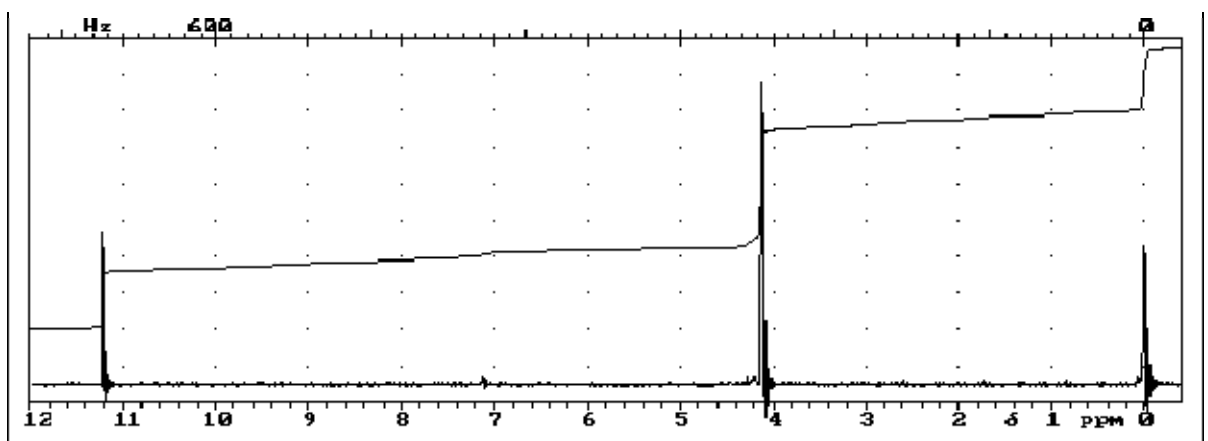
2. MS-Spektrum



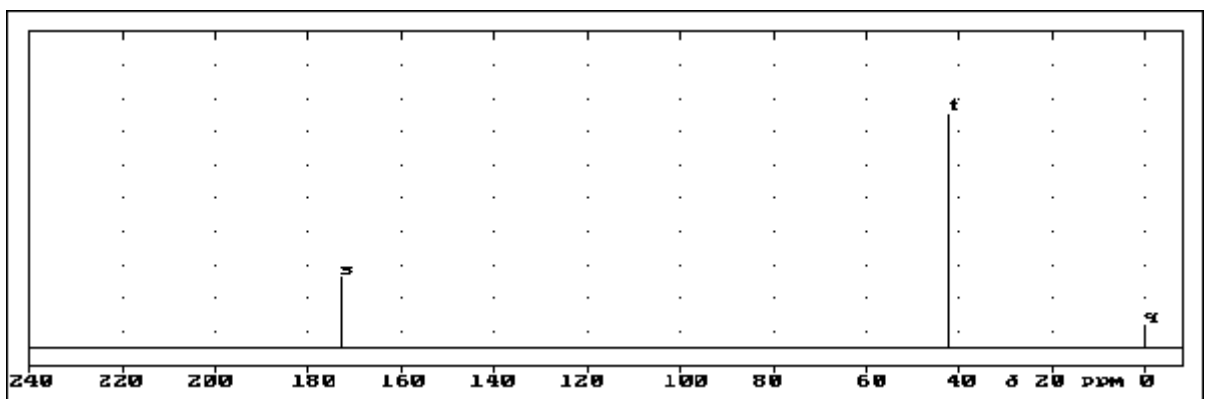
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



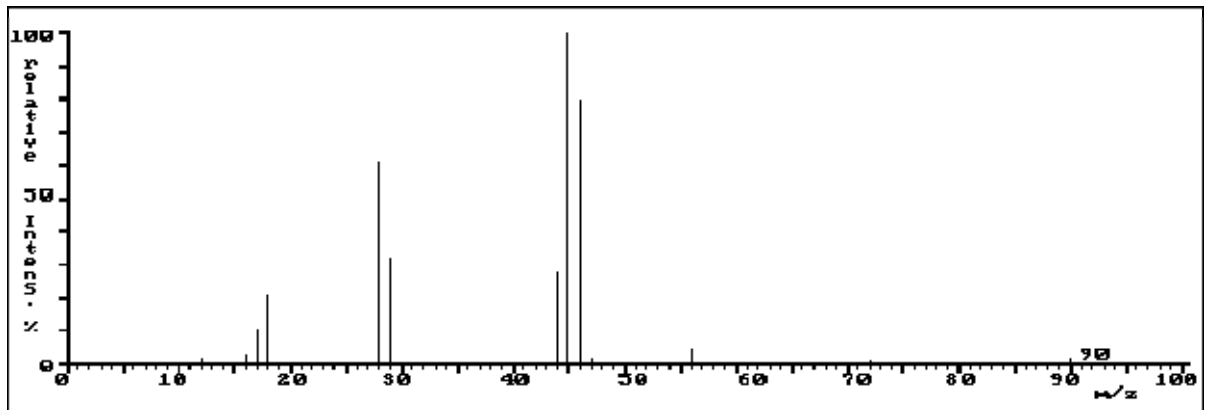
5. <sup>13</sup>C-NMR-Spektrum:



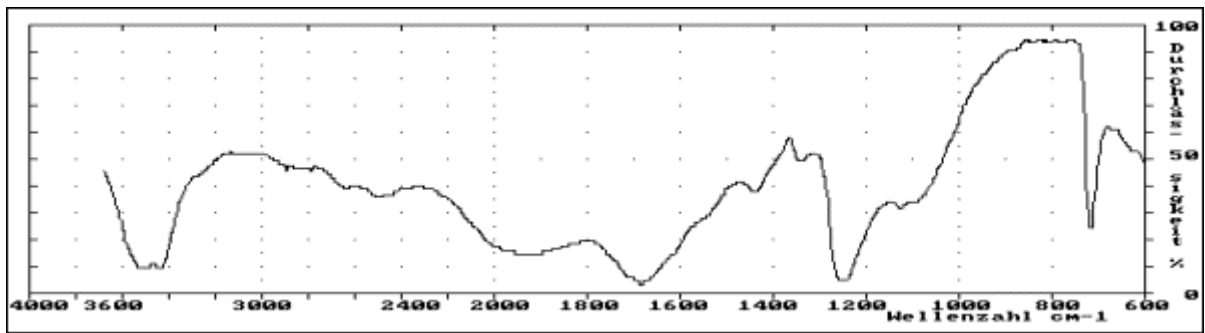
1. Quantitative Analyse:

C: 26.68 %	H: 02.24 %	O:	N:			enthält: C, H, O
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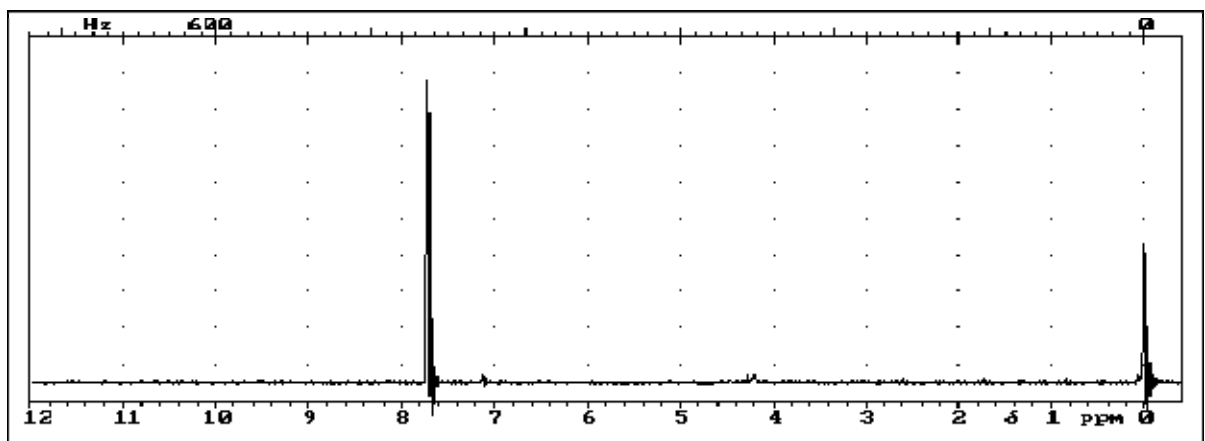
2. MS-Spektrum



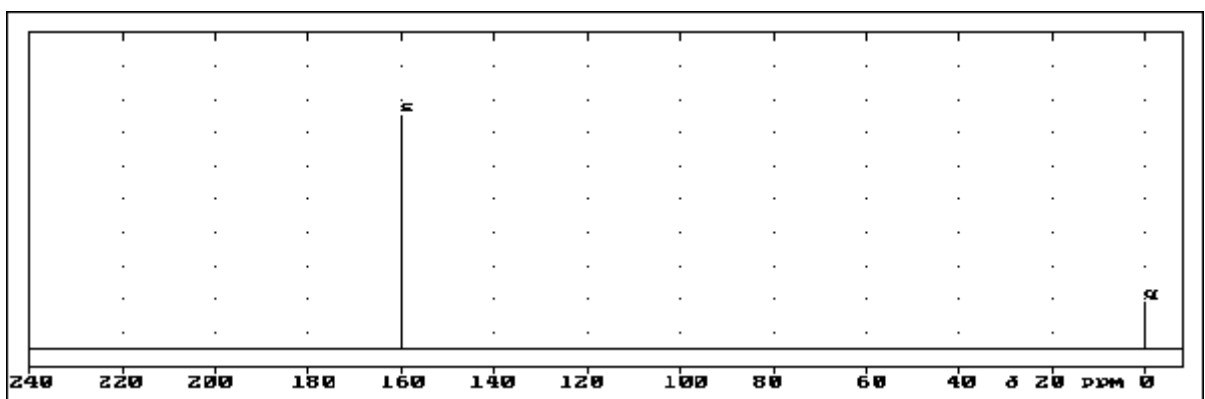
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



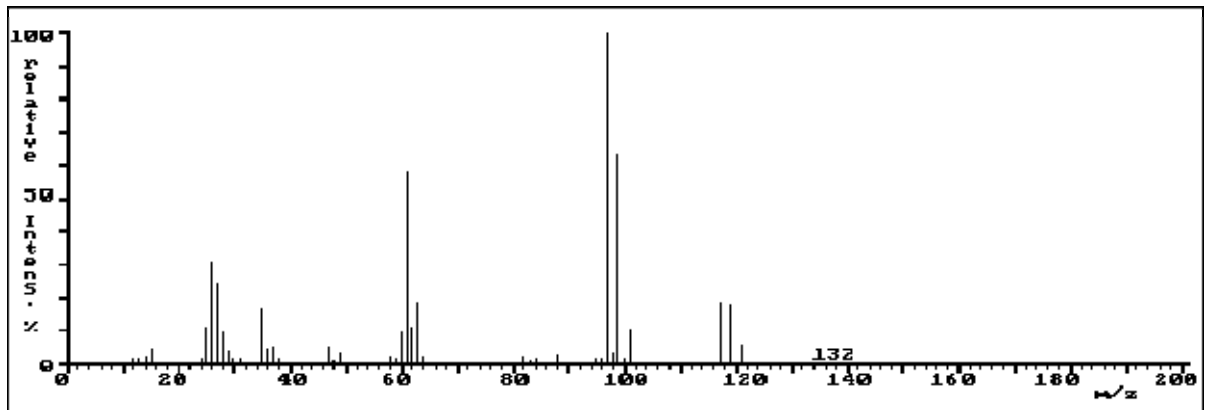
5. <sup>13</sup>C-NMR-Spektrum:



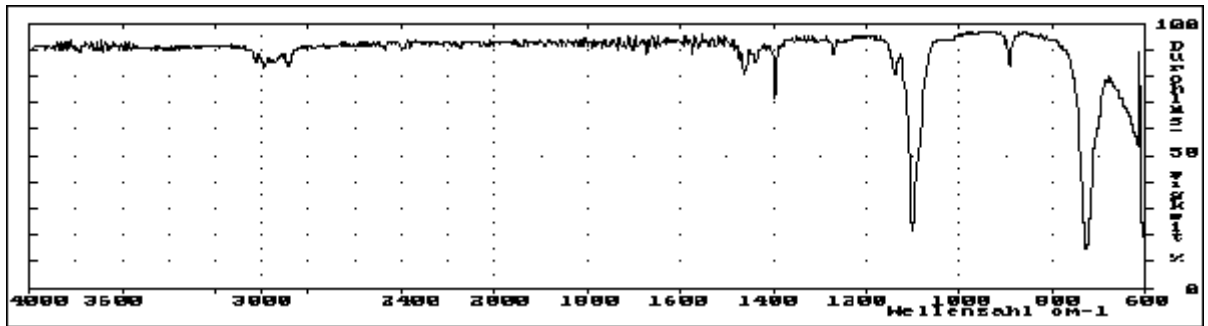
1. Quantitative Analyse:

C: 18.01 %	H: 02.27 %	O:				enthält: C, H, Cl
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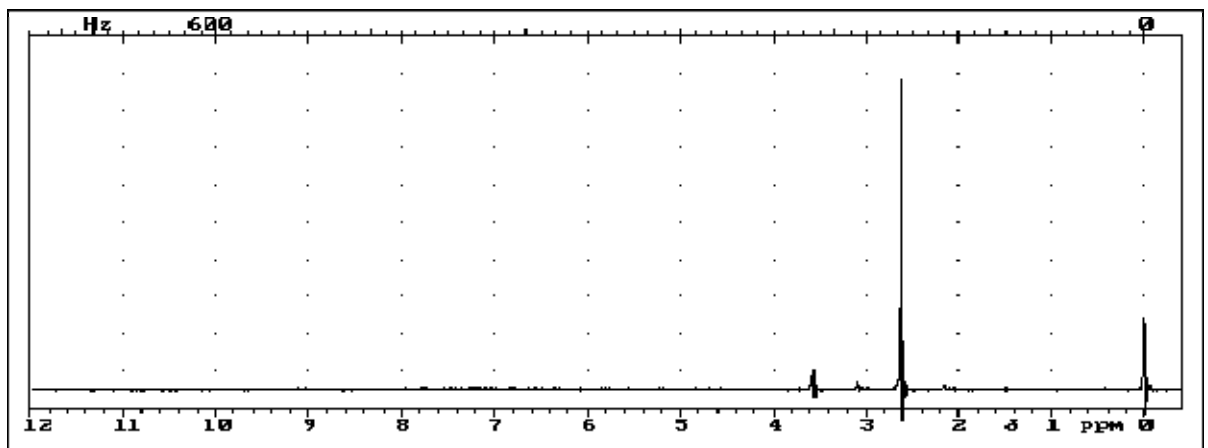
2. MS-Spektrum



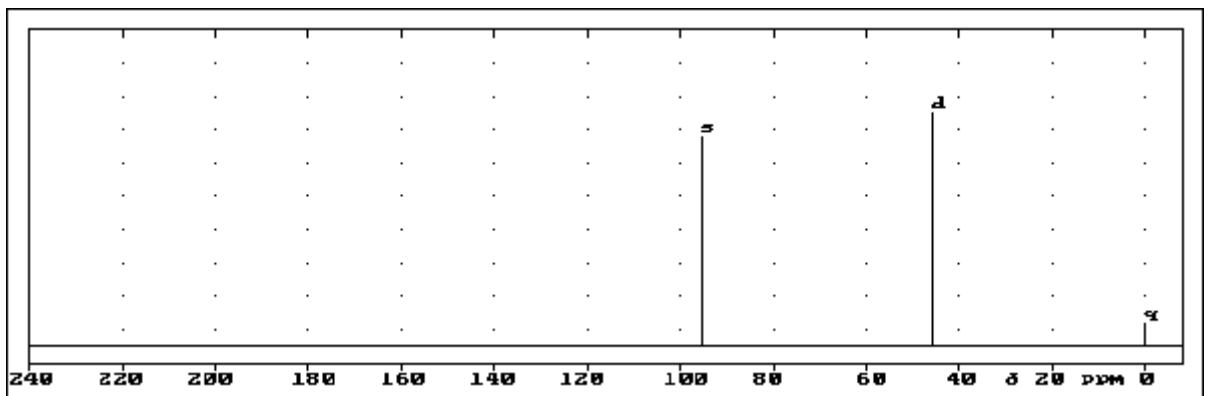
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



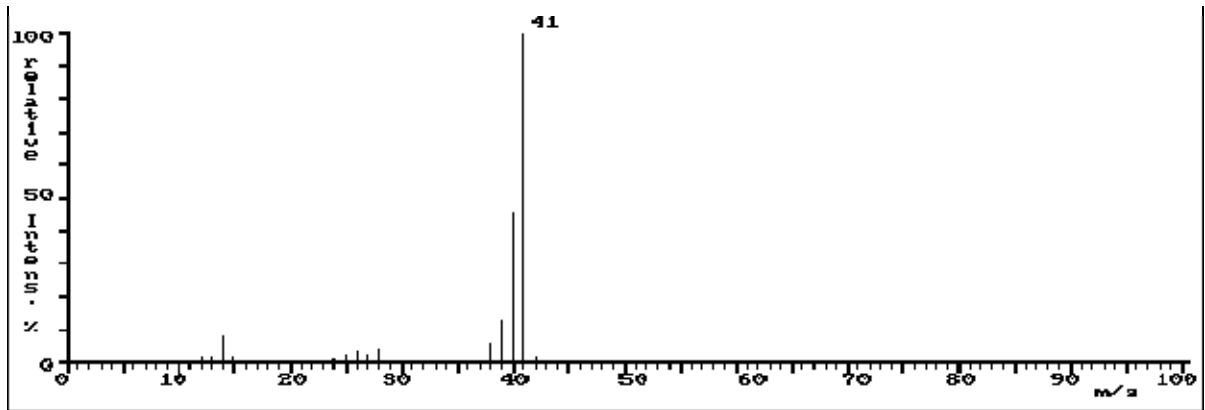
5. <sup>13</sup>C-NMR-Spektrum:



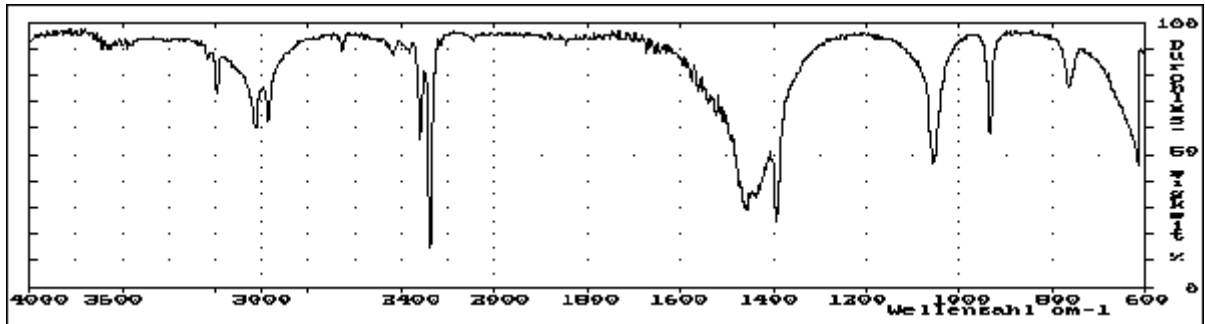
1. Quantitative Analyse:

C: 58.52 %	H: 07.37 %	O:	N:			enthält: C, H, N
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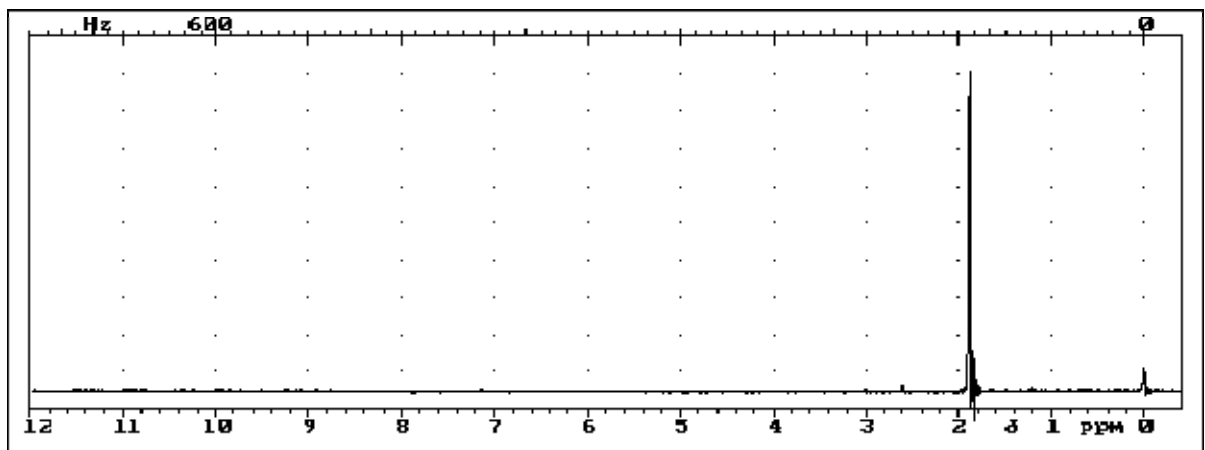
2. MS-Spektrum



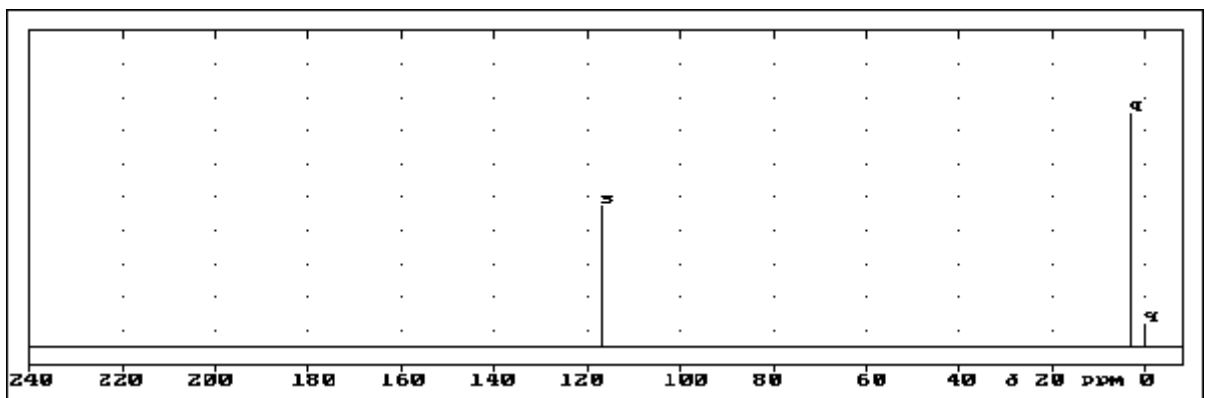
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



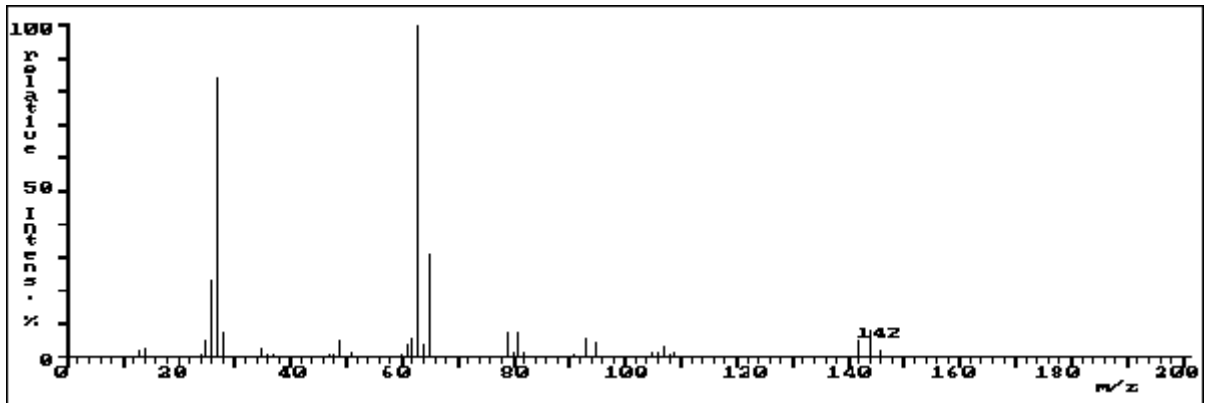
5. <sup>13</sup>C-NMR-Spektrum:



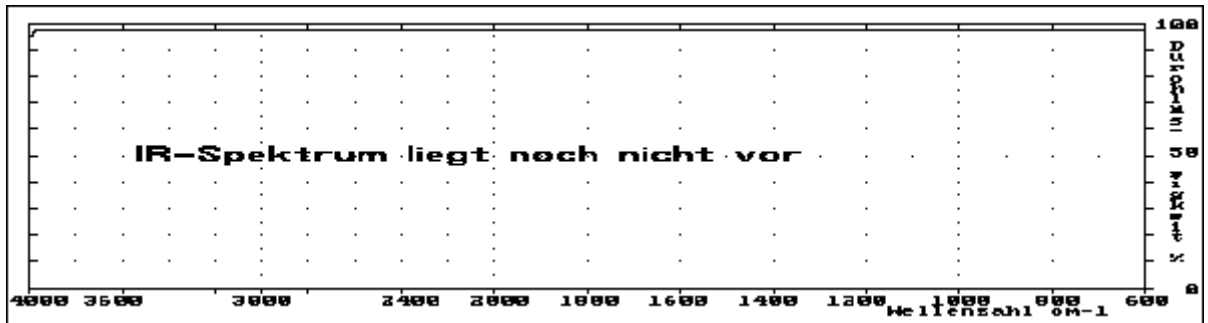
1. Quantitative Analyse:

C: 16.75 %	H: 02.81 %	O:				enthält: C, H, Br, Cl
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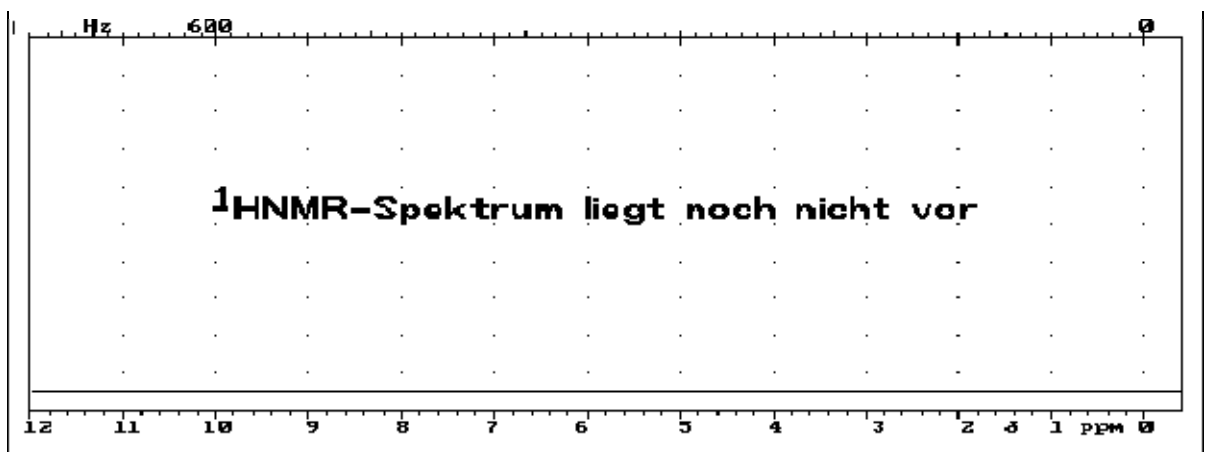
2. MS-Spektrum



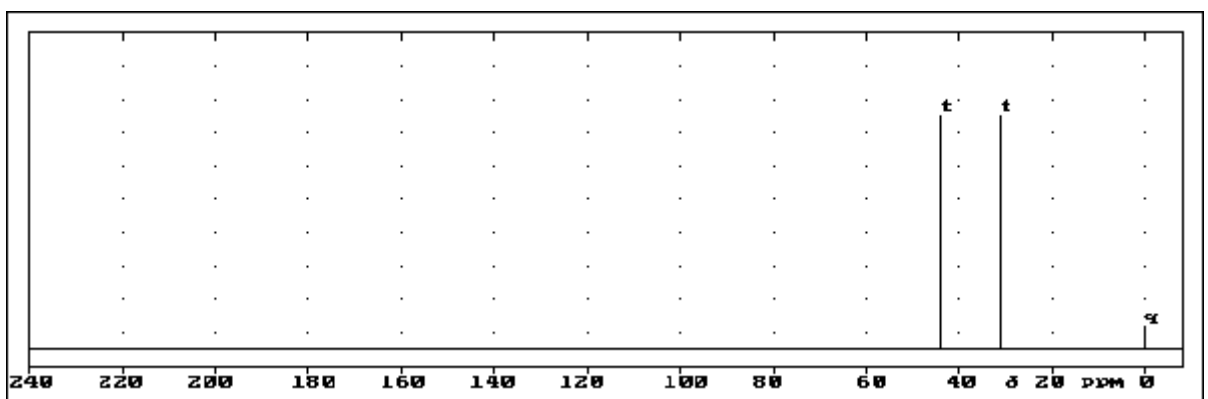
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



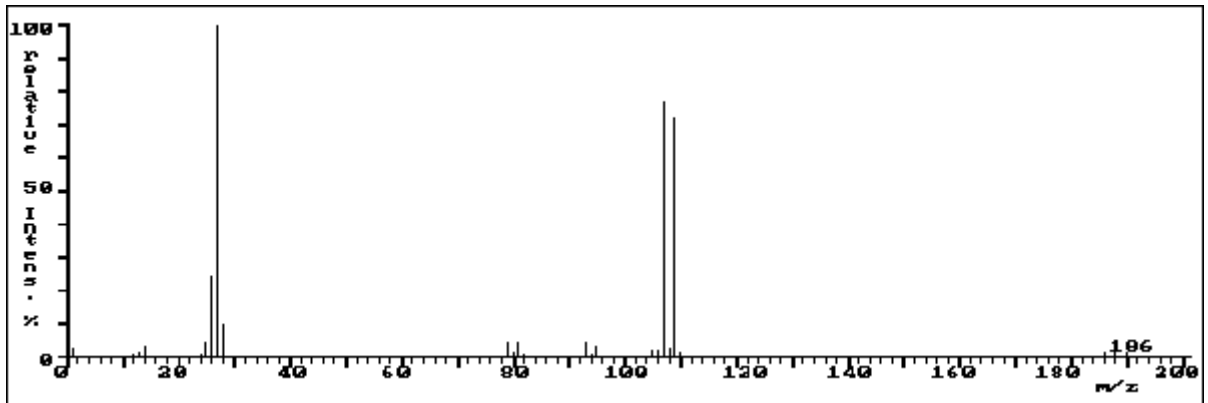
5. <sup>13</sup>C-NMR-Spektrum:



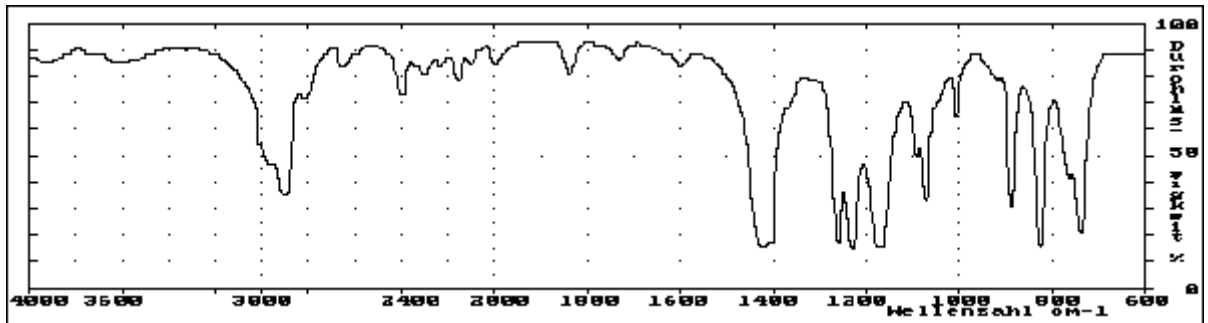
1. Quantitative Analyse:

C: 12.79 %	H: 02.15 %	O:				enthält: C, H, Br
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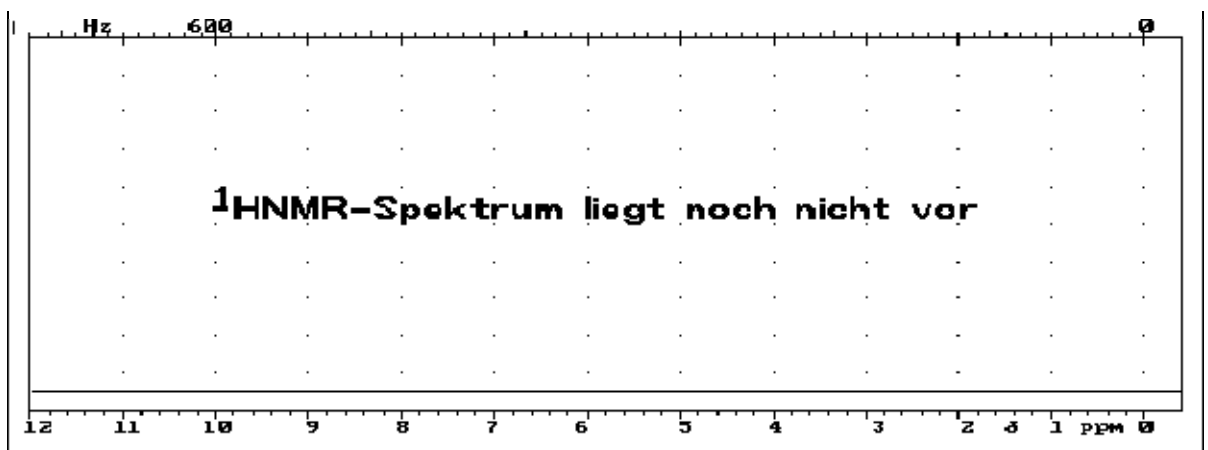
2. MS-Spektrum



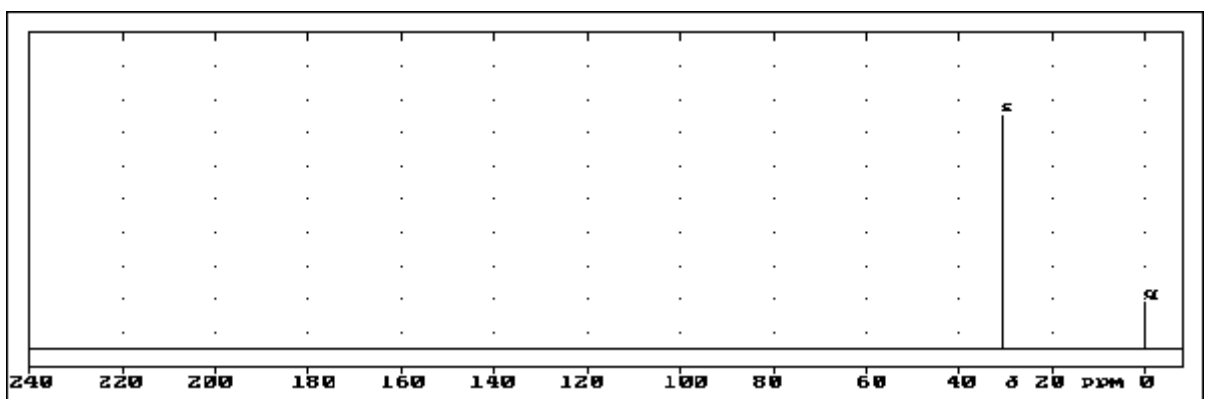
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



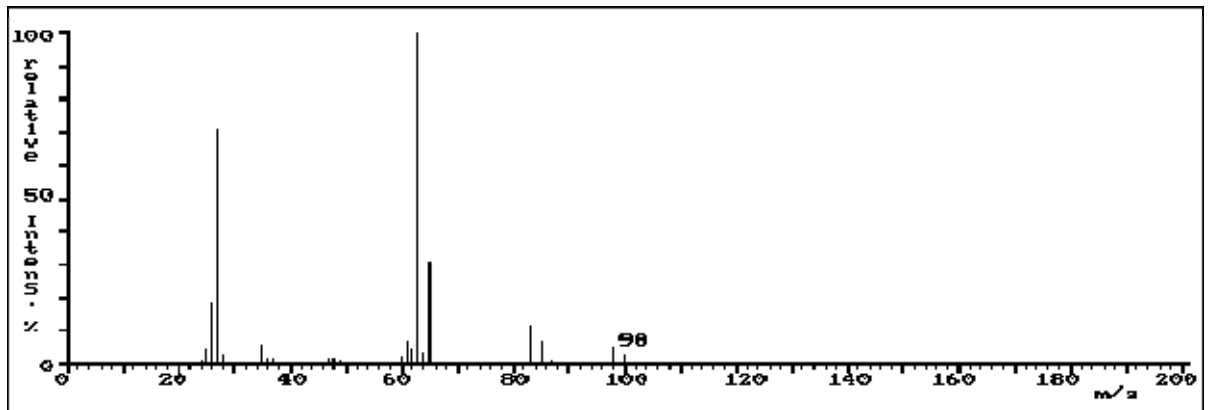
5. <sup>13</sup>C-NMR-Spektrum:



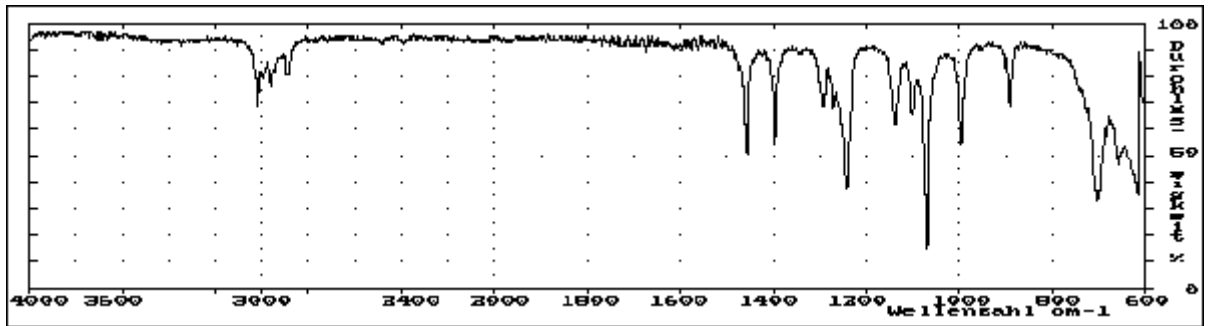
1. Quantitative Analyse:

C: 24.27 %	H: 04.07 %	O:				enthält: C, H, Cl
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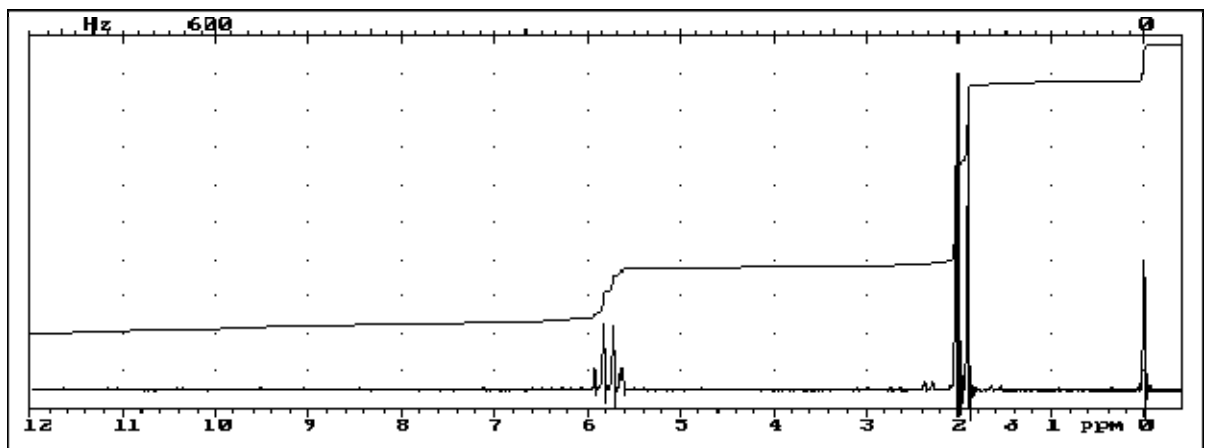
2. MS-Spektrum



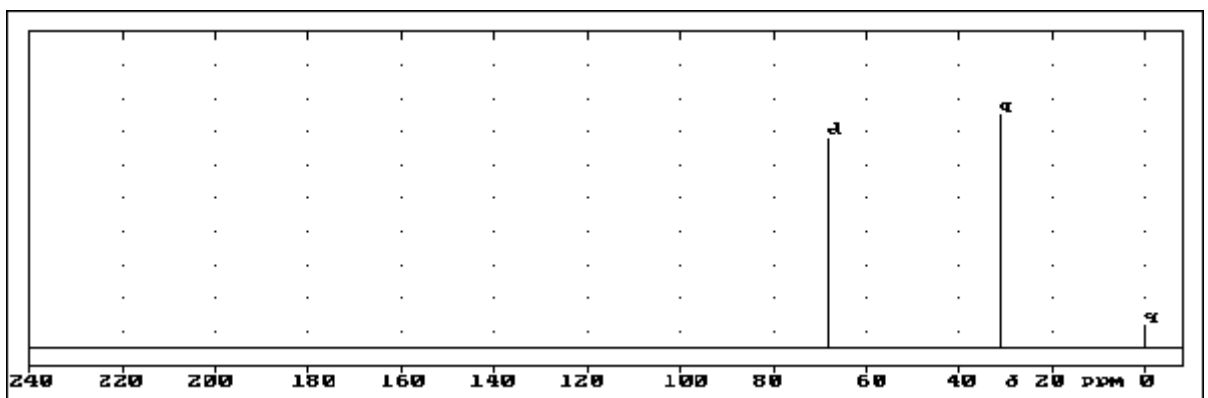
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

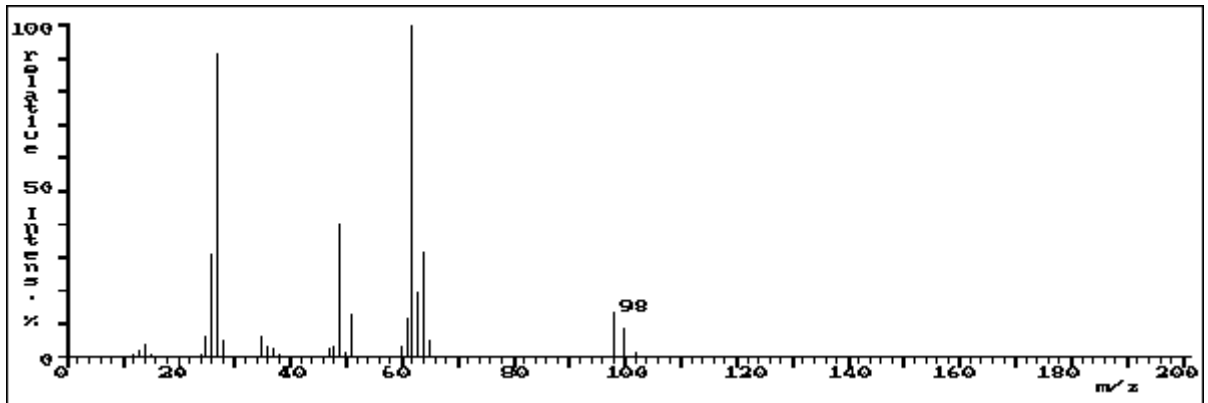




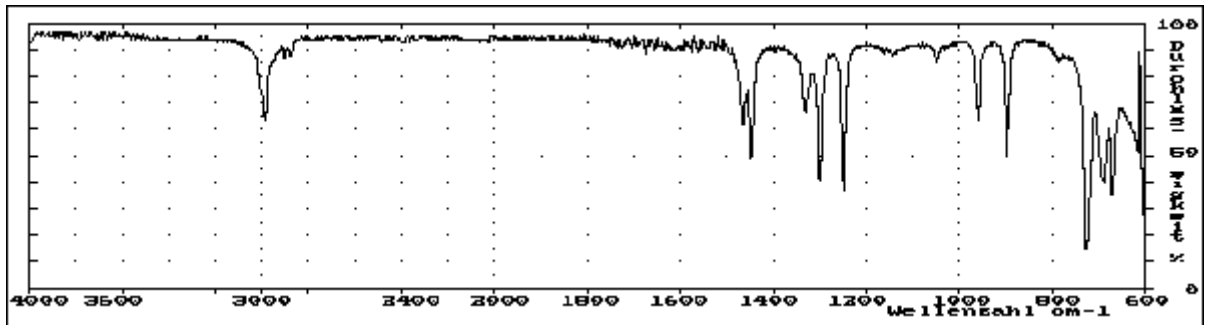
1. Quantitative Analyse:

C: 24.27 %	H: 04.07 %	O:				enthält: C, H, Cl
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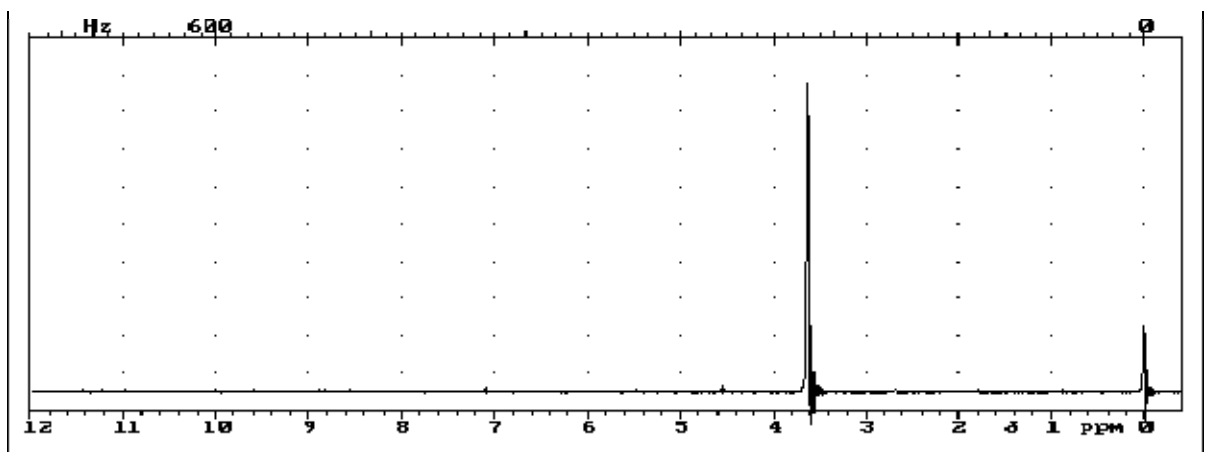
2. MS-Spektrum



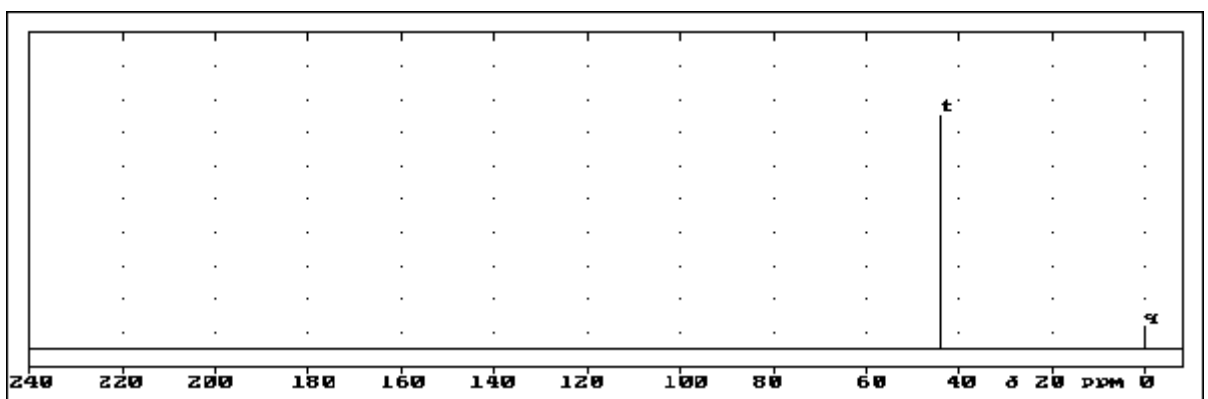
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



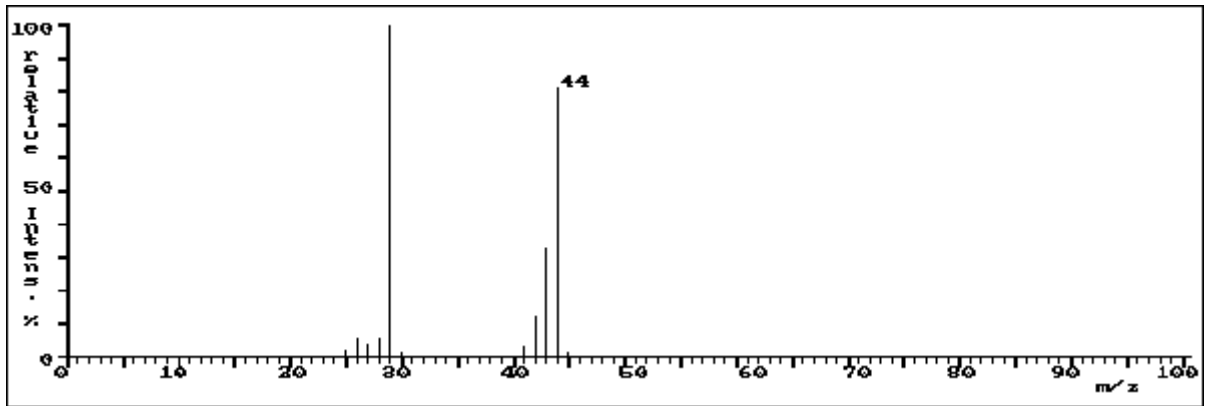
5. <sup>13</sup>C-NMR-Spektrum:



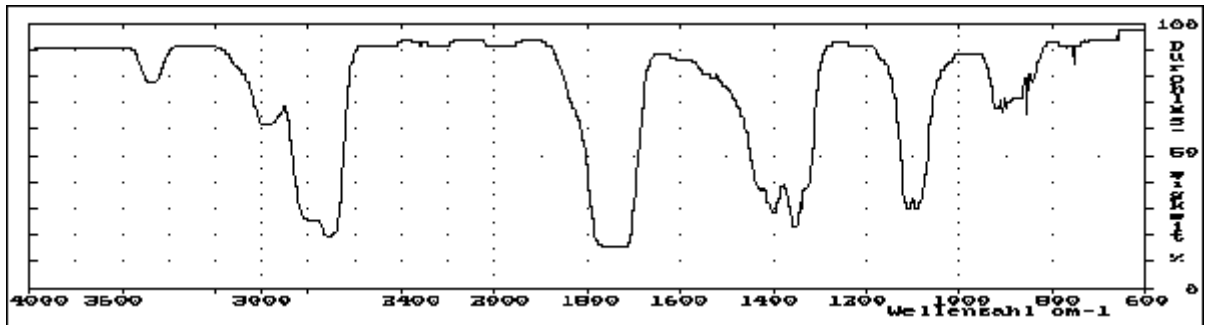
1. Quantitative Analyse:

C: 54.54 %	H: 09.09 %	O:				enthält: C, H, O
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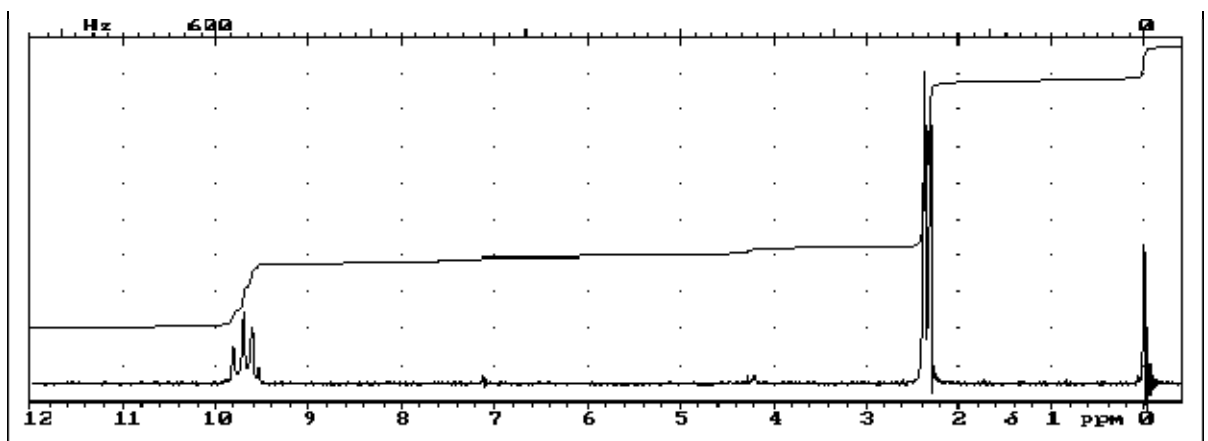
2. MS-Spektrum



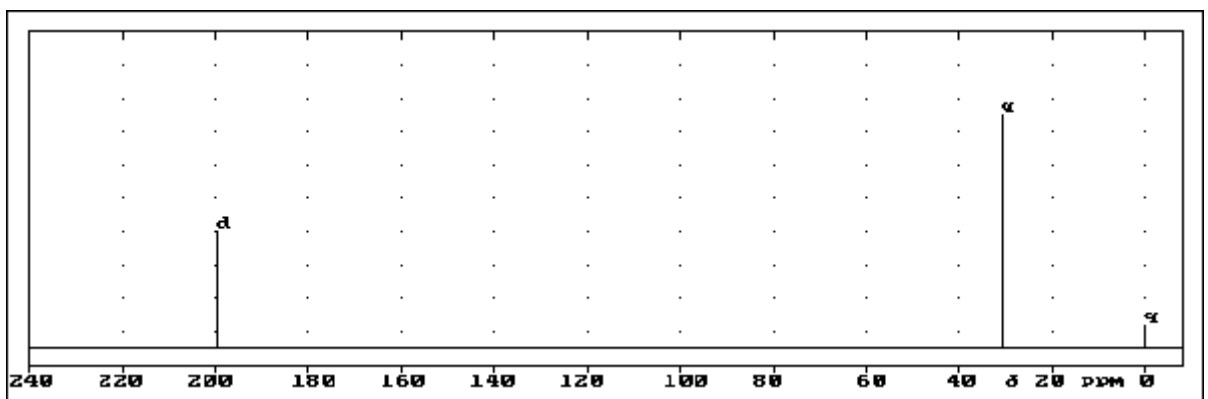
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



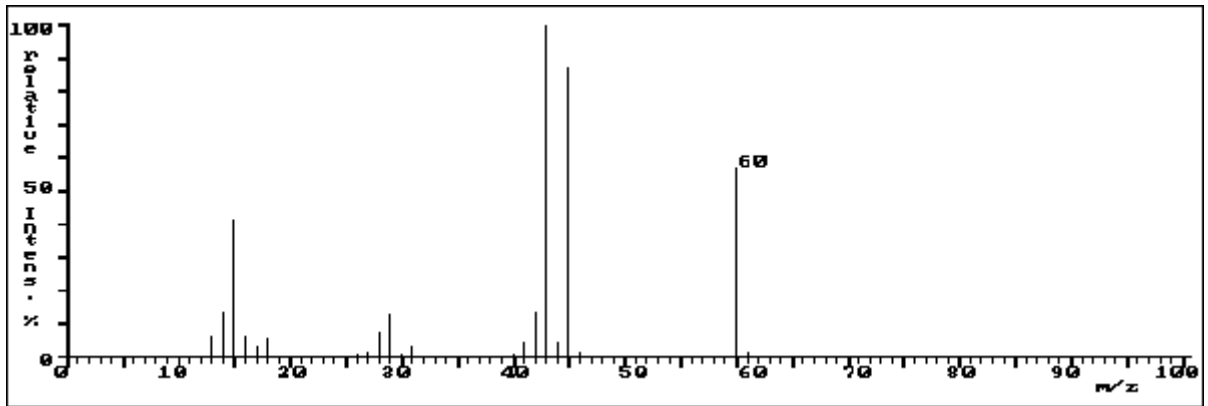
5. <sup>13</sup>C-NMR-Spektrum:



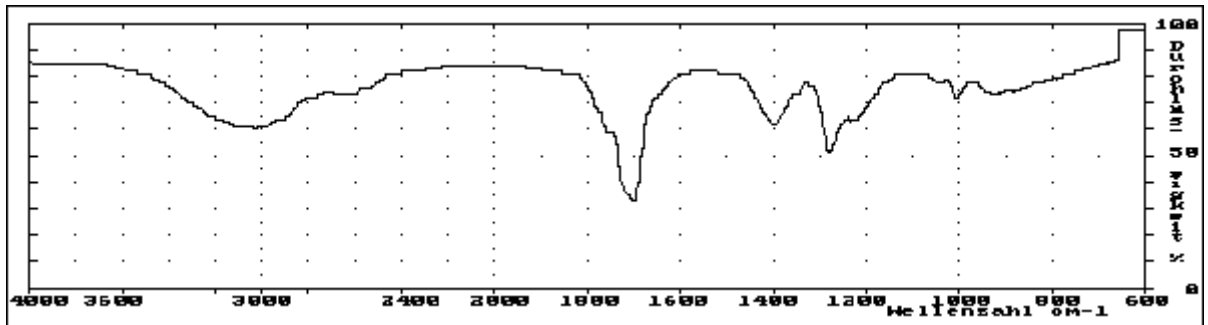
1. Quantitative Analyse:

C: 40.00 %	H: 06.67 %	O:				enthält: C, H, O
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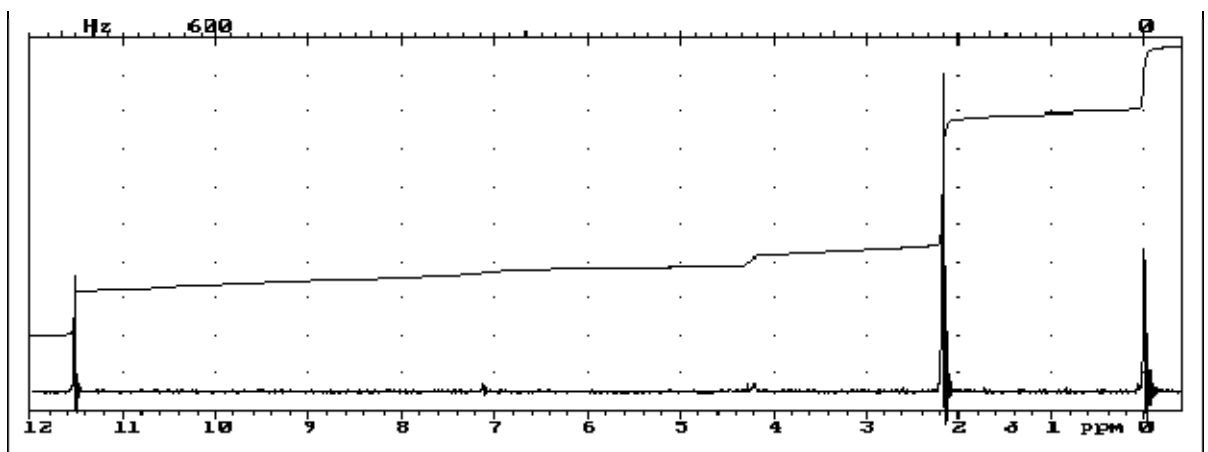
2. MS-Spektrum



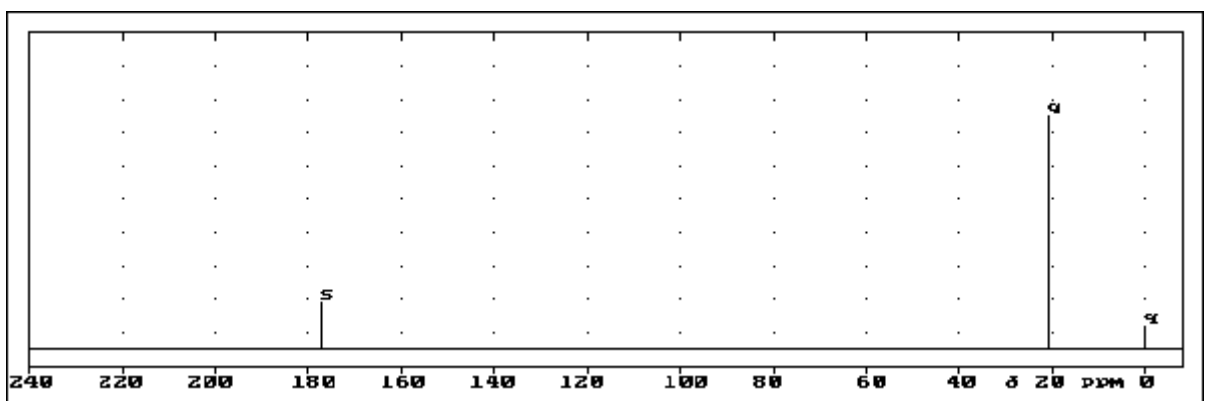
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



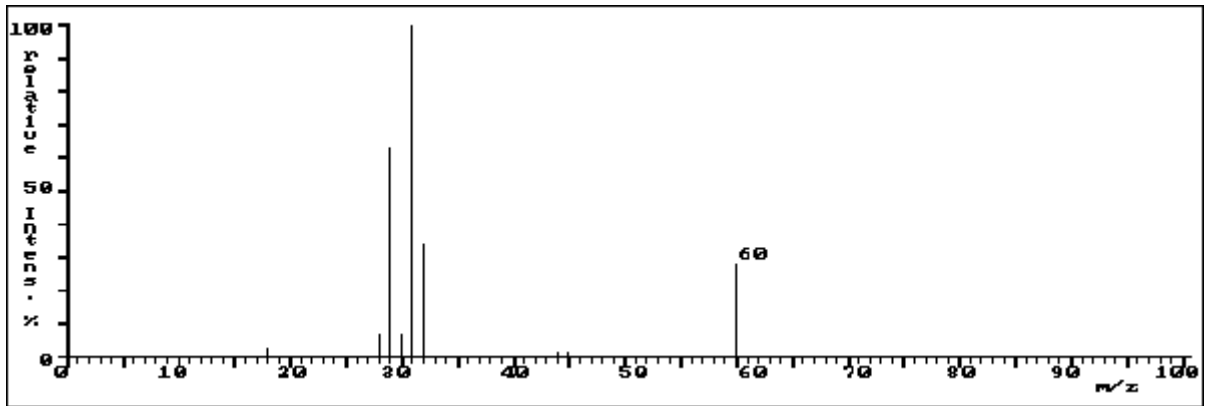
5. <sup>13</sup>C-NMR-Spektrum:



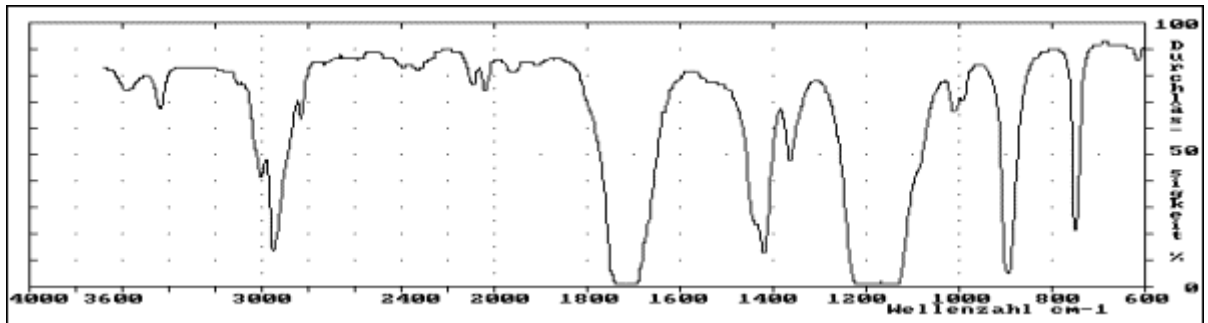
1. Quantitative Analyse:

C: 40.00 %	H: 06.71 %	O:				enthält: C, H, O
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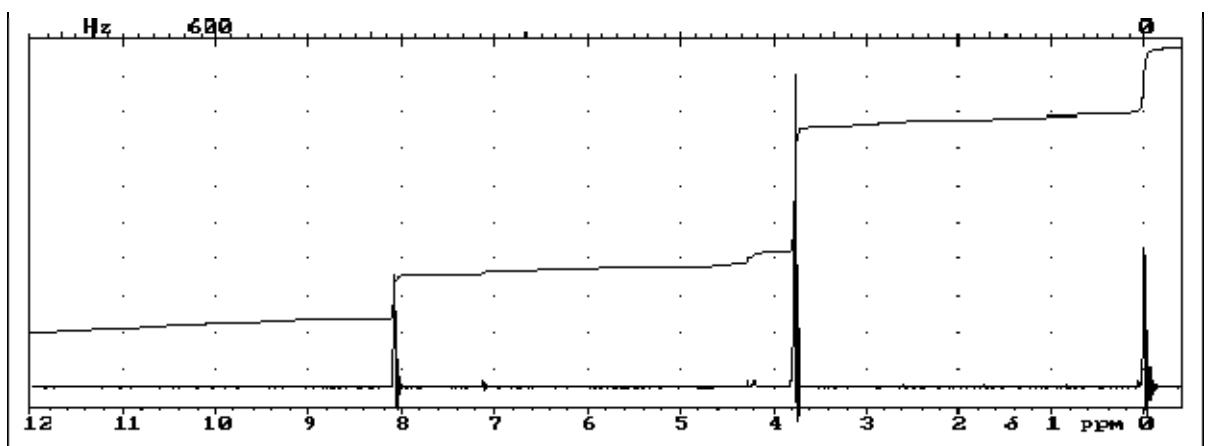
2. MS-Spektrum



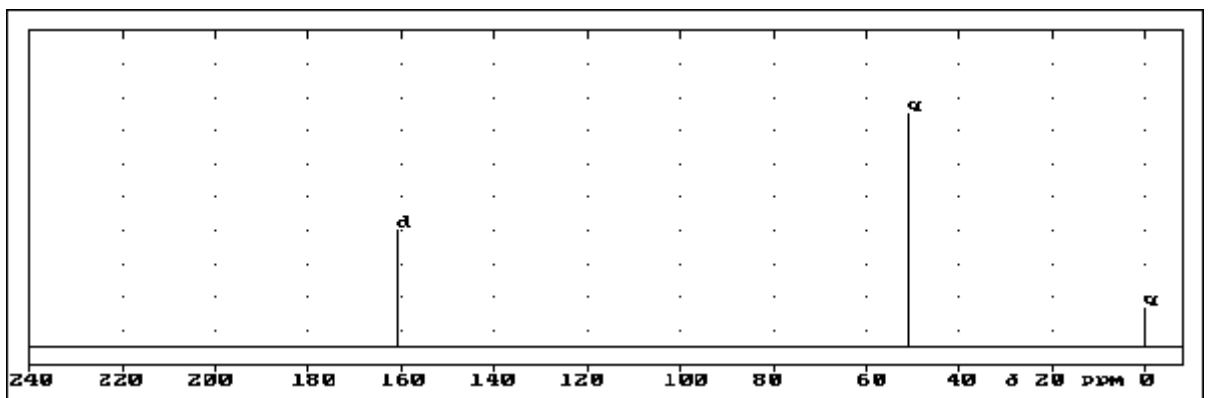
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



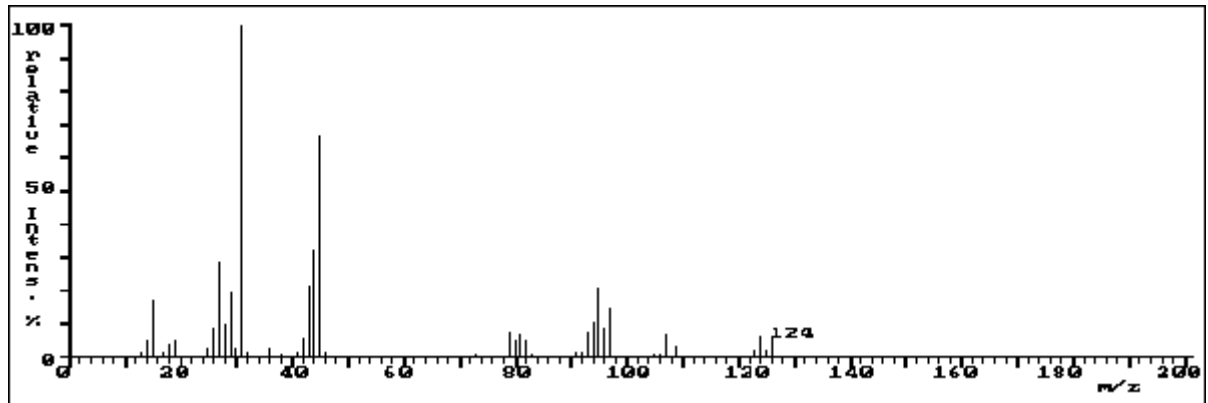
5. <sup>13</sup>C-NMR-Spektrum:



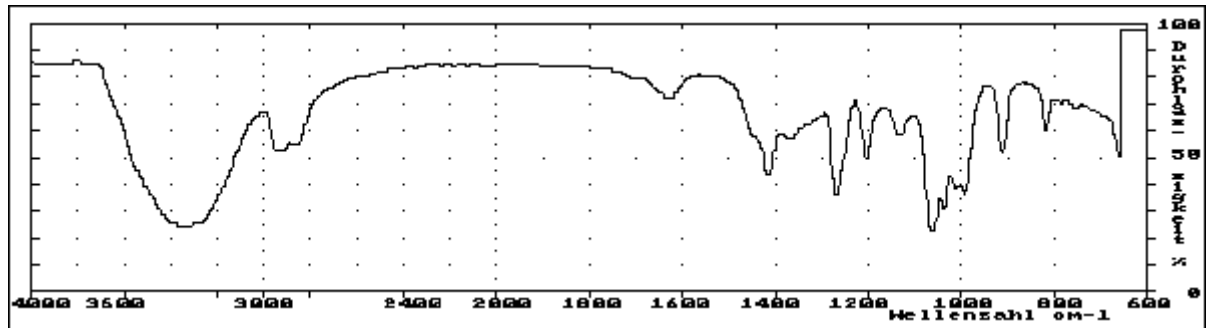
1. Quantitative Analyse:

C: 19.22 %	H: 04.03 %	O:				enthält: C, H, Br, O
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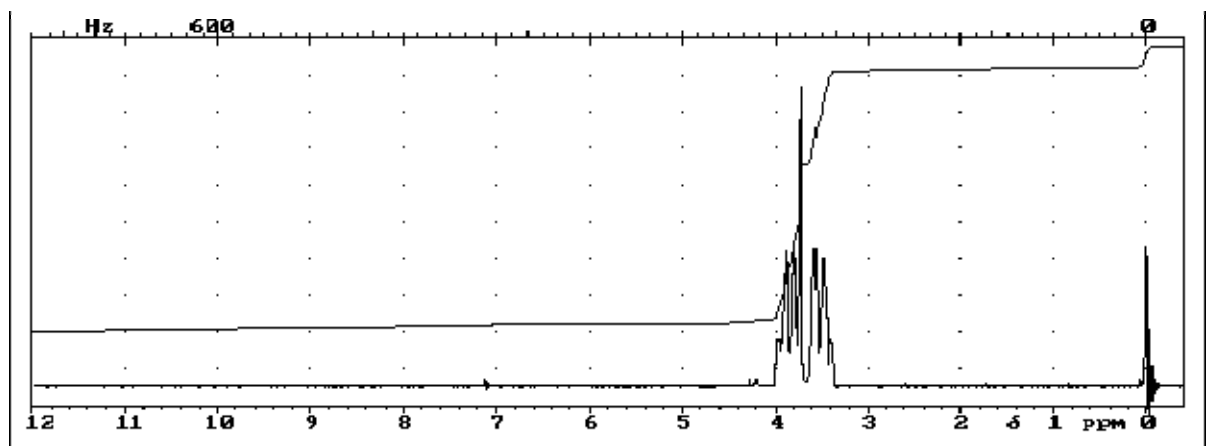
2. MS-Spektrum



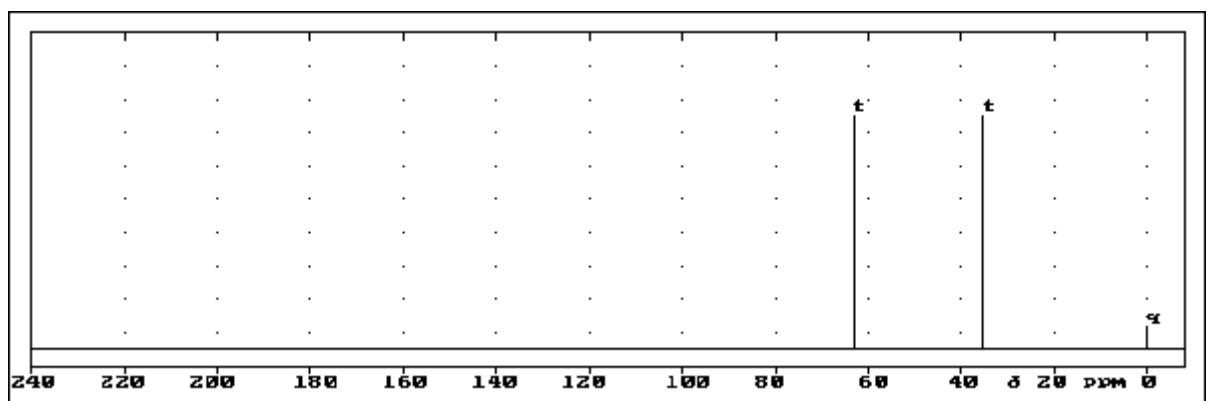
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



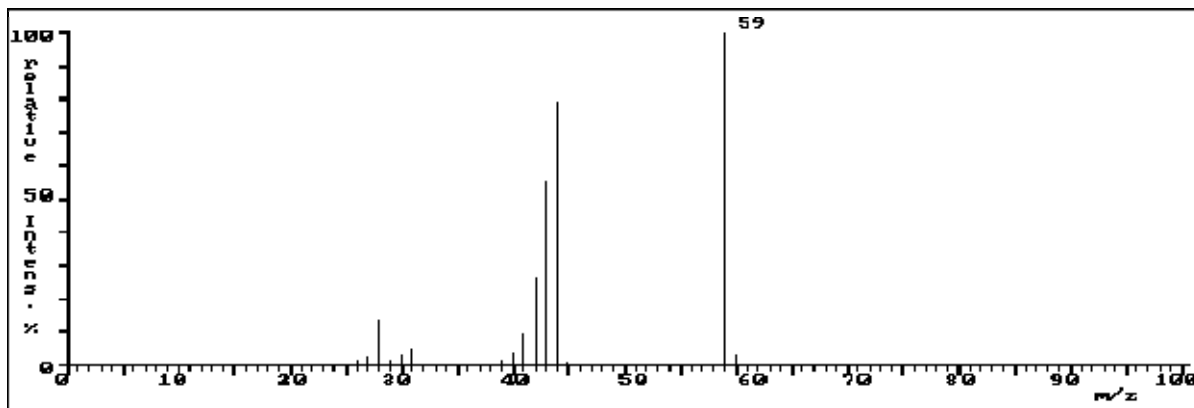
5. <sup>13</sup>C-NMR-Spektrum:



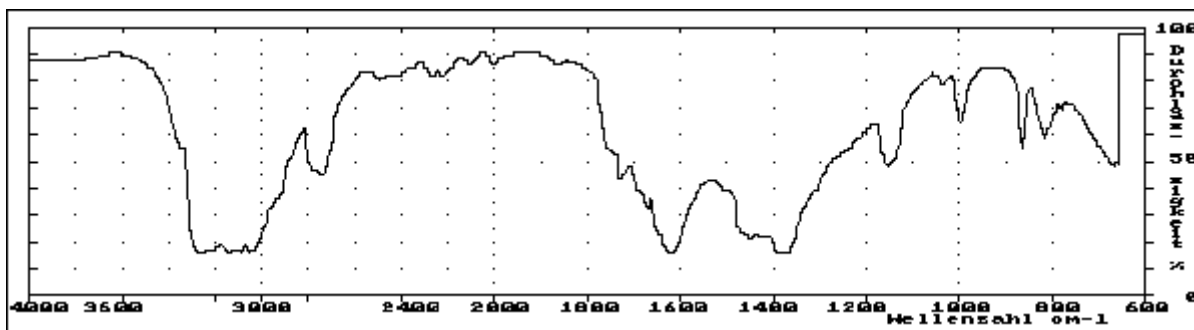
1. Quantitative Analyse:

C: 40.67 %	H: 08.53 %	O:				enthält: C, H, N, O
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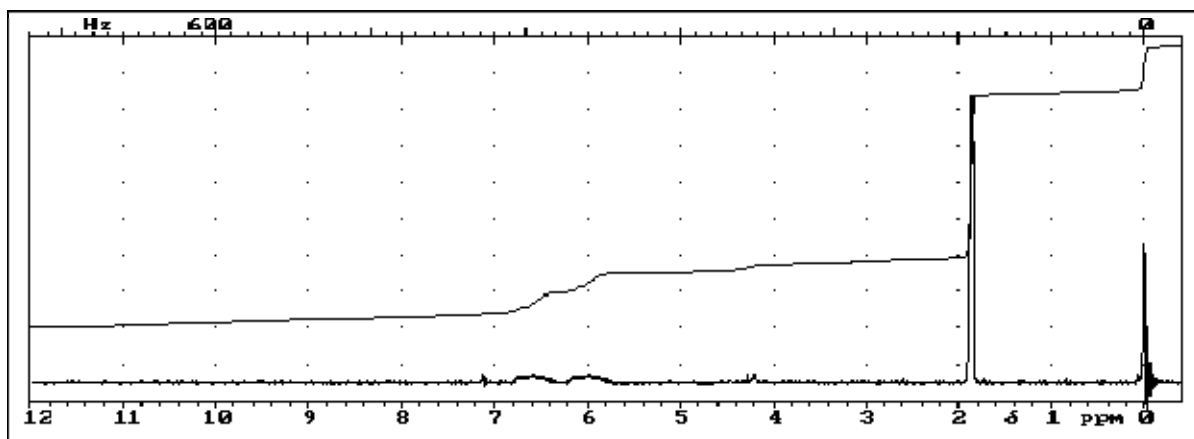
2. MS-Spektrum



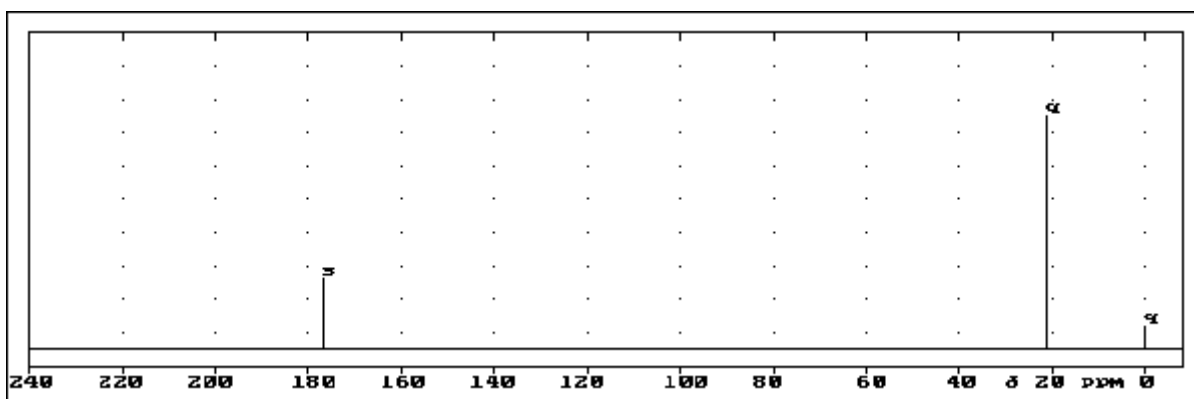
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



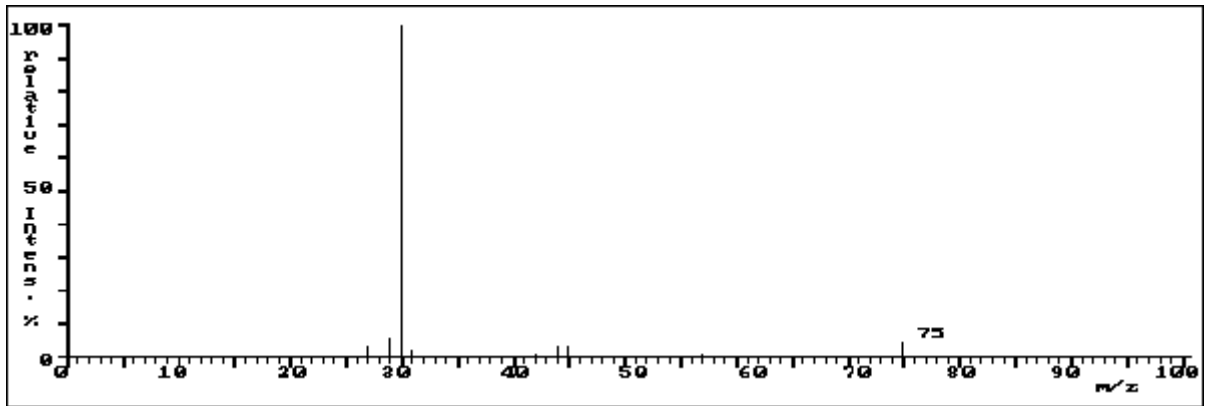
5. <sup>13</sup>C-NMR-Spektrum:



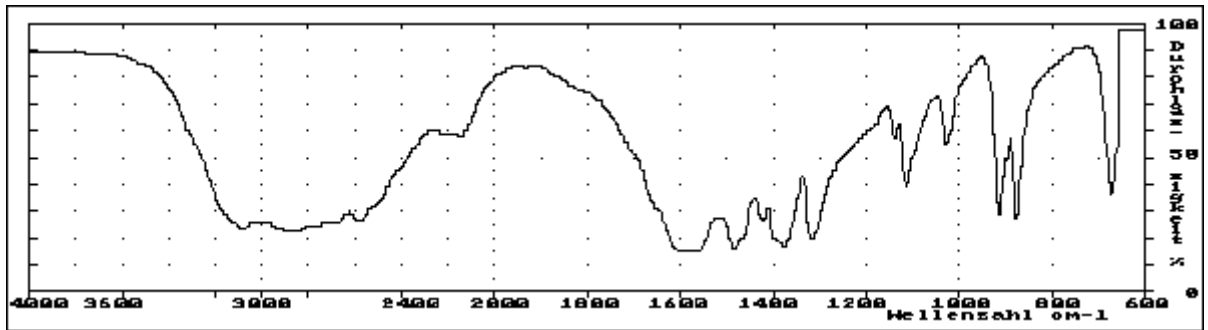
1. Quantitative Analyse:

C: 32.00 %	H: 06.71 %	O:				enthält: C, H, N, O
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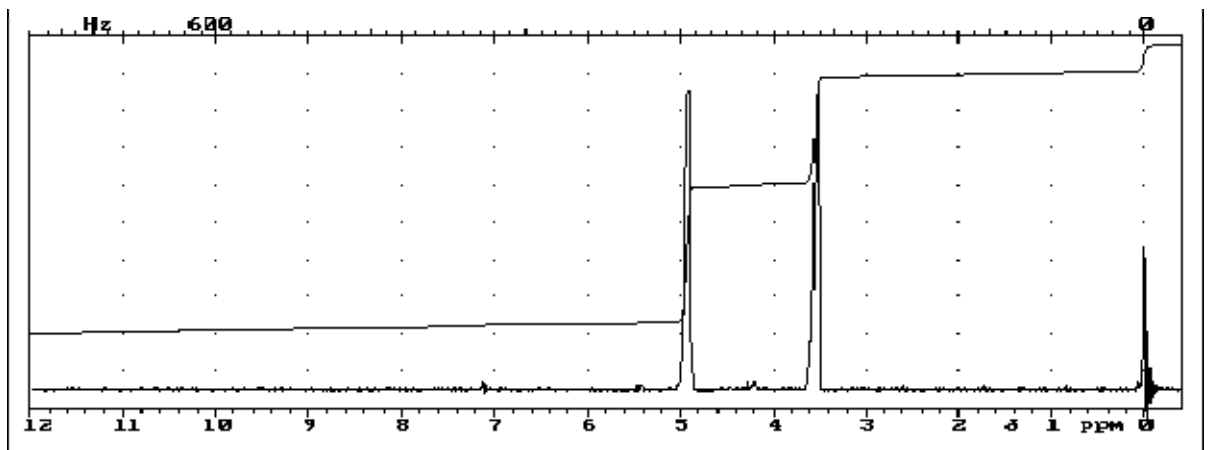
2. MS-Spektrum



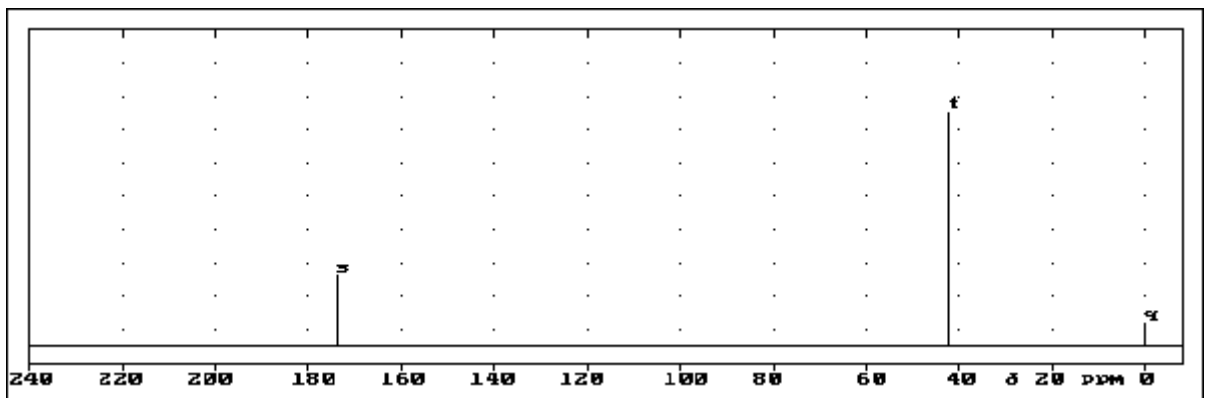
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



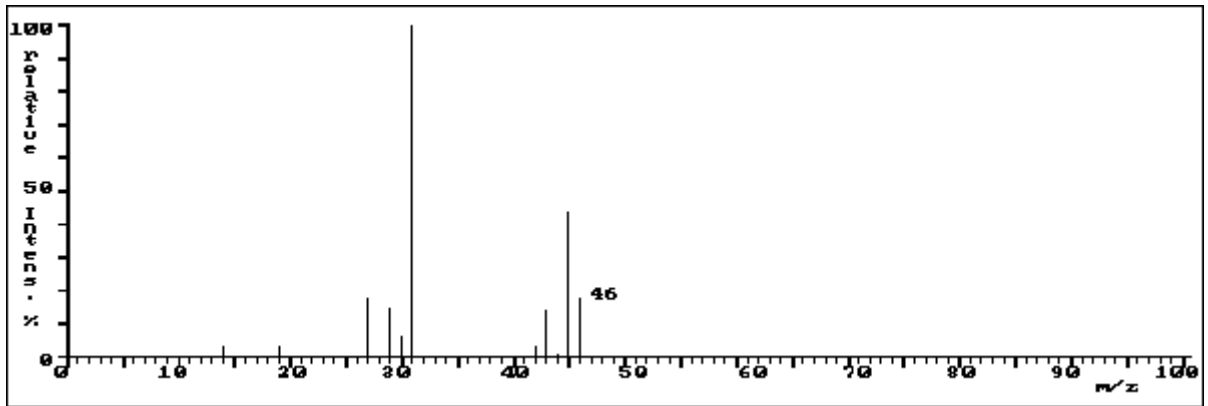
5. <sup>13</sup>C-NMR-Spektrum:



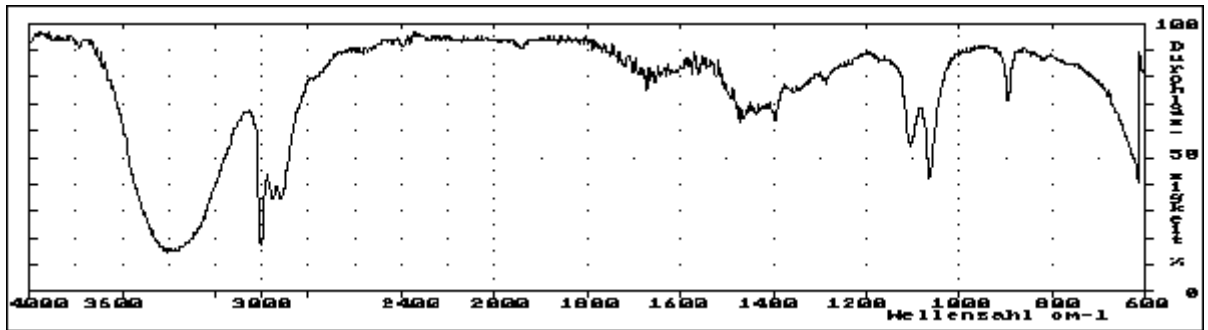
1. Quantitative Analyse:

C: 52.14 %	H: 13.13 %	O:				enthält: C, H, O
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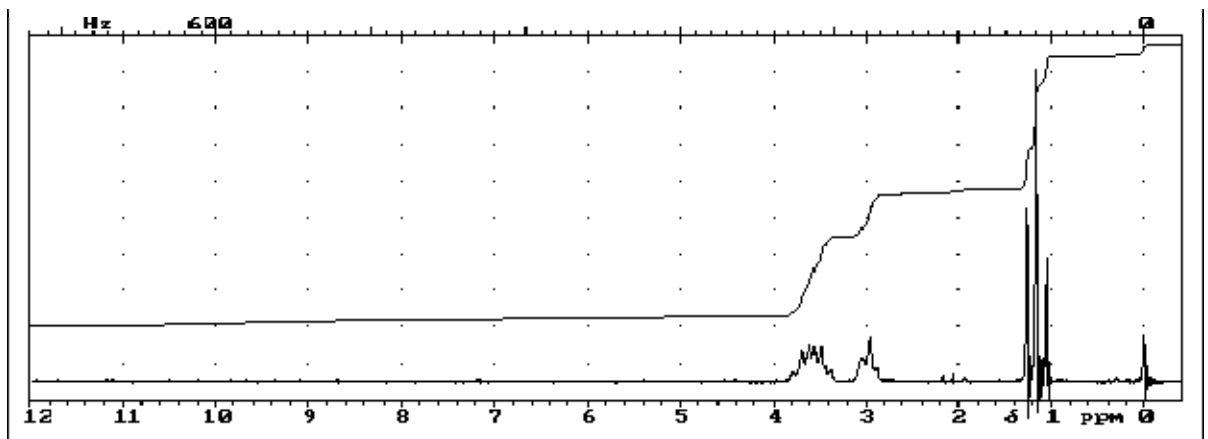
2. MS-Spektrum



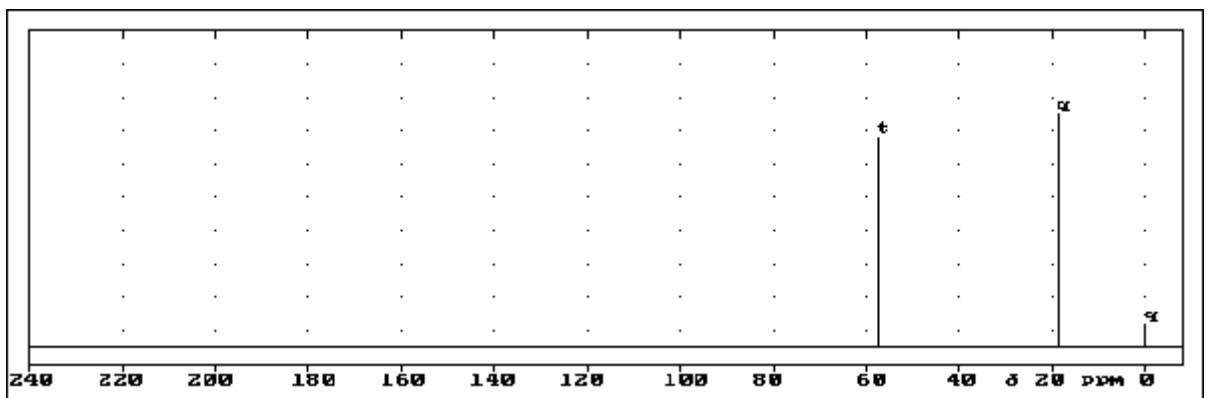
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

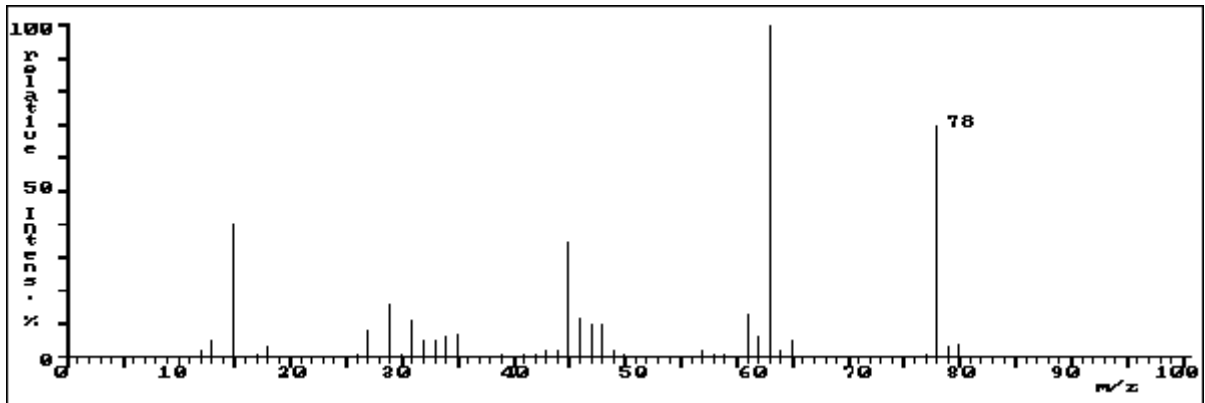




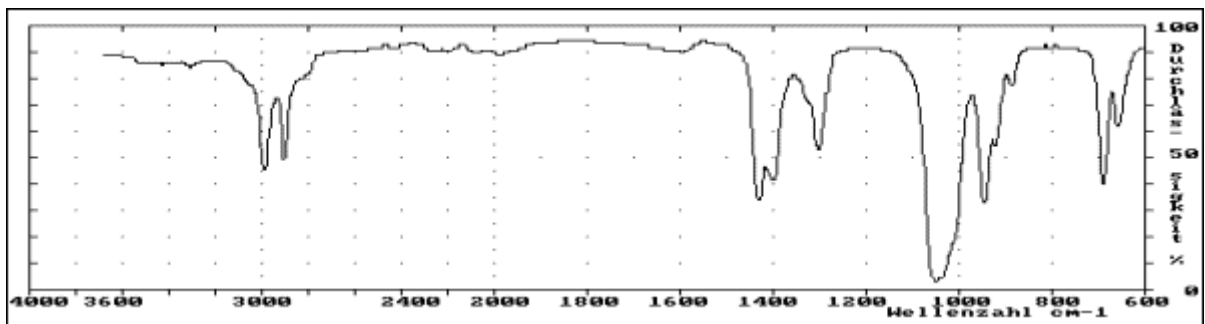
1. Quantitative Analyse:

C: 30.74 %	H: 07.74 %	O:				enthält: C, H, O, S
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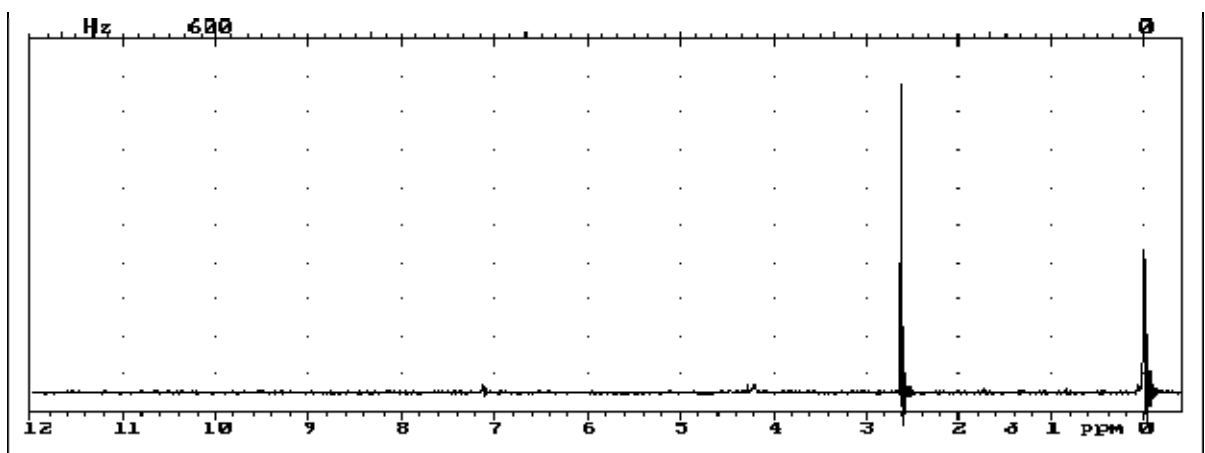
2. MS-Spektrum



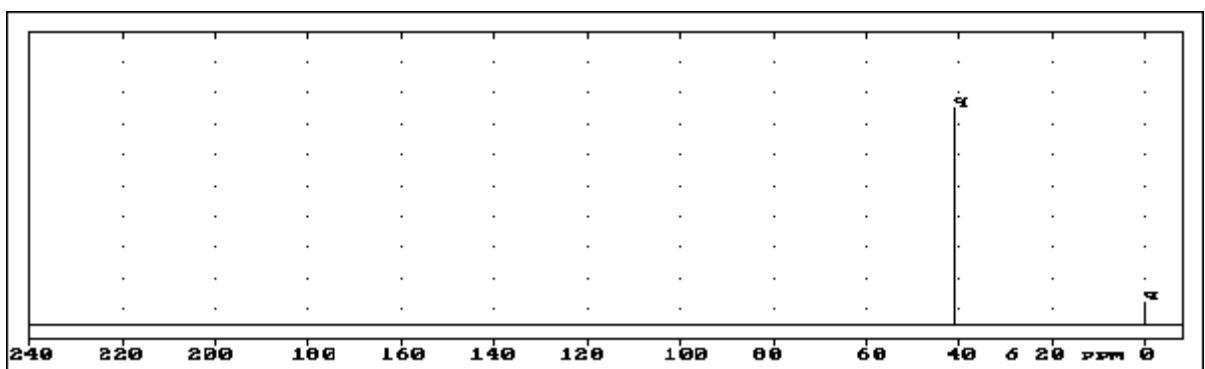
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



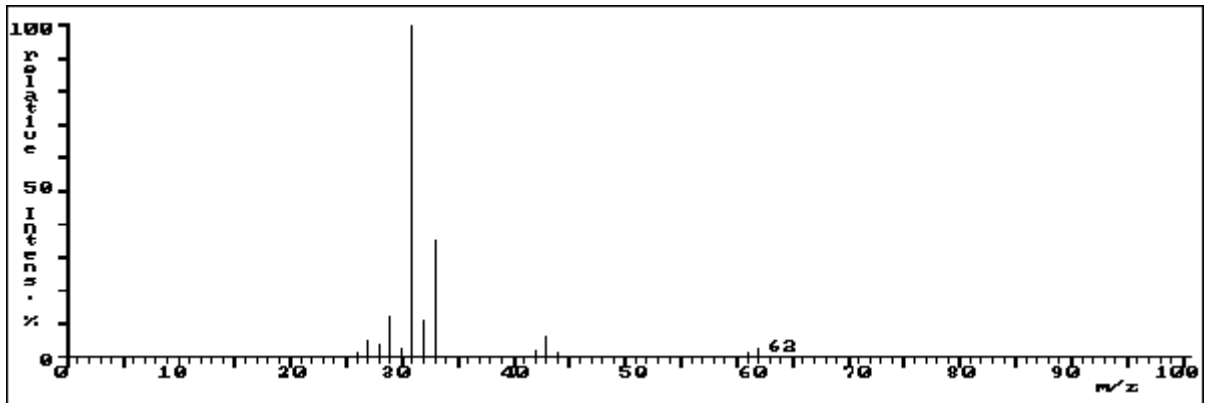
5. <sup>13</sup>C-NMR-Spektrum:



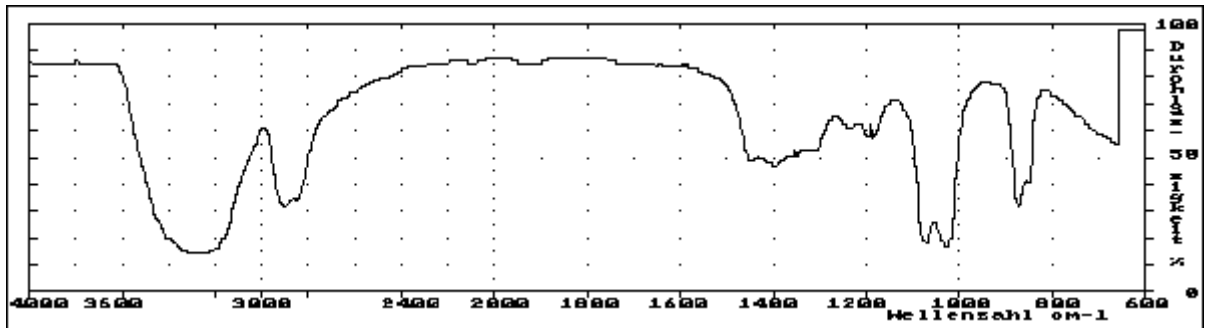
1. Quantitative Analyse:

C: 38.71 %	H: 09.68 %	O:				enthält: C, H, O
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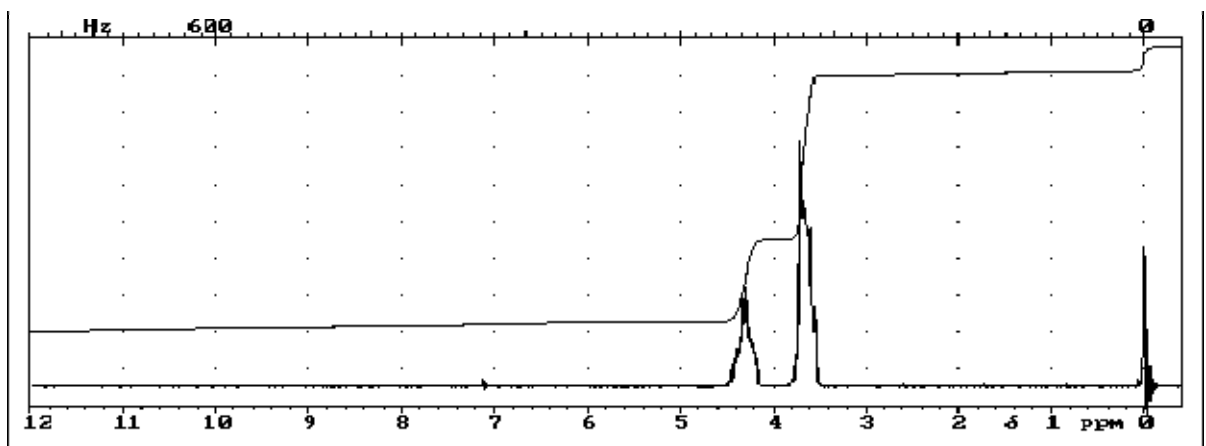
2. MS-Spektrum



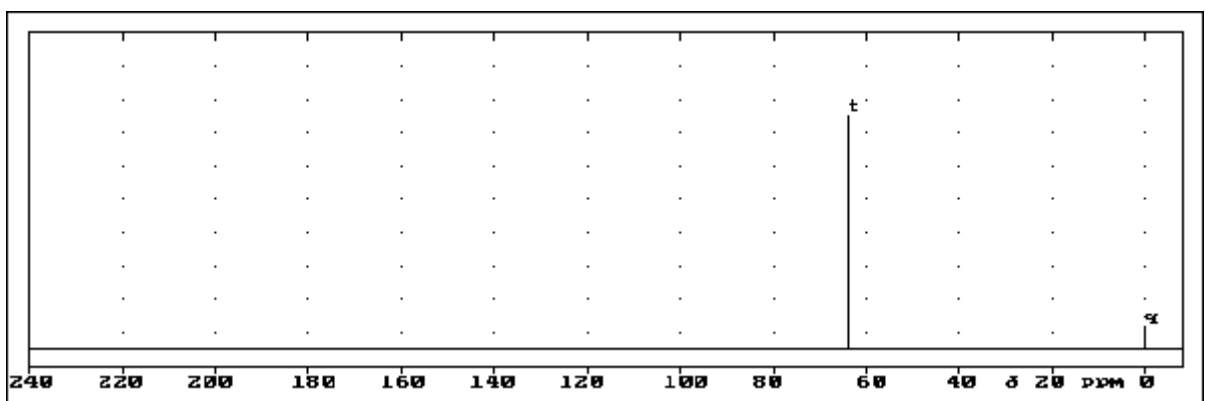
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



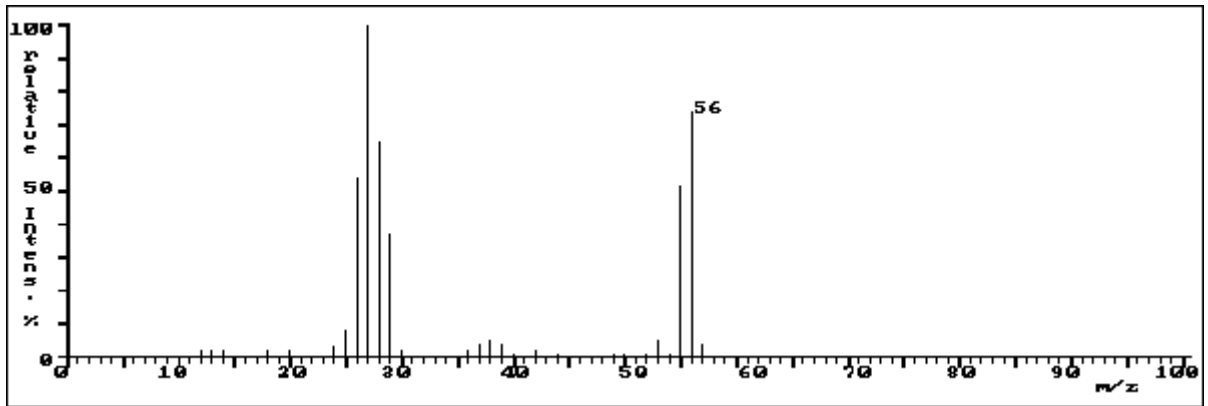
5. <sup>13</sup>C-NMR-Spektrum:



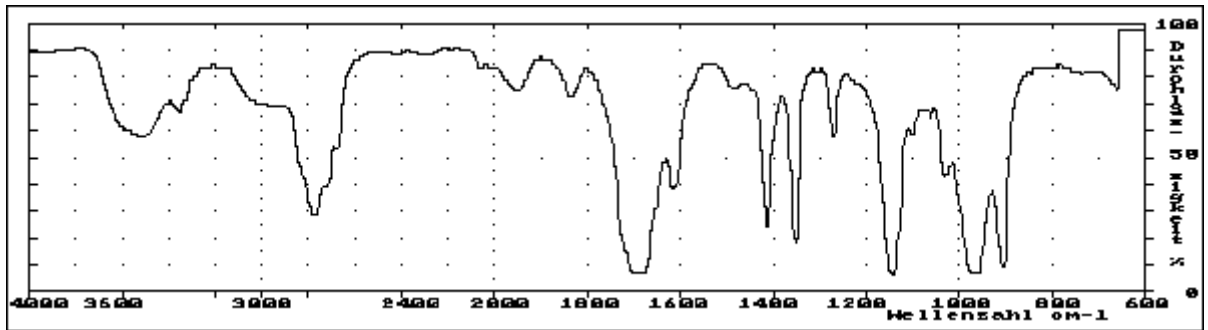
1. Quantitative Analyse:

C: 64.27 %	H: 07.19 %	O:				enthält: C, H, O
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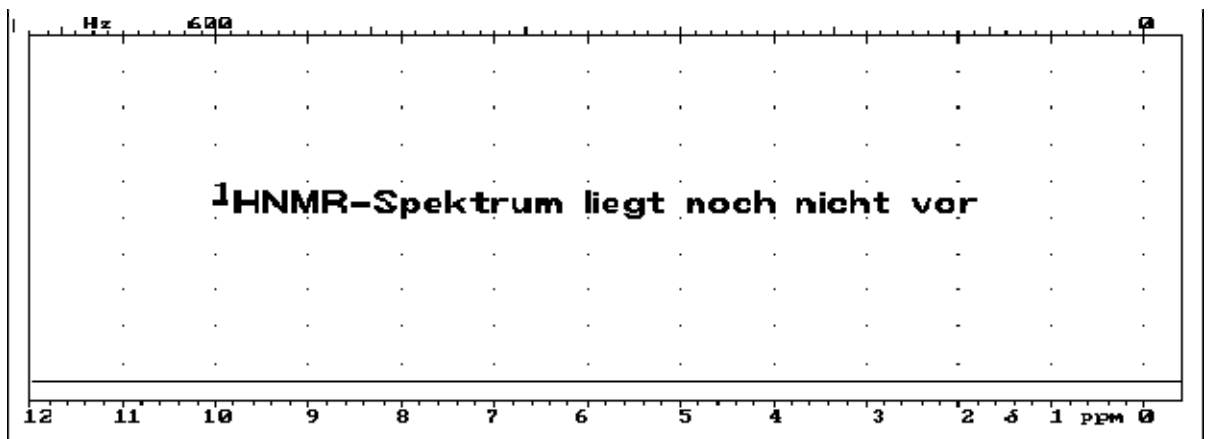
2. MS-Spektrum



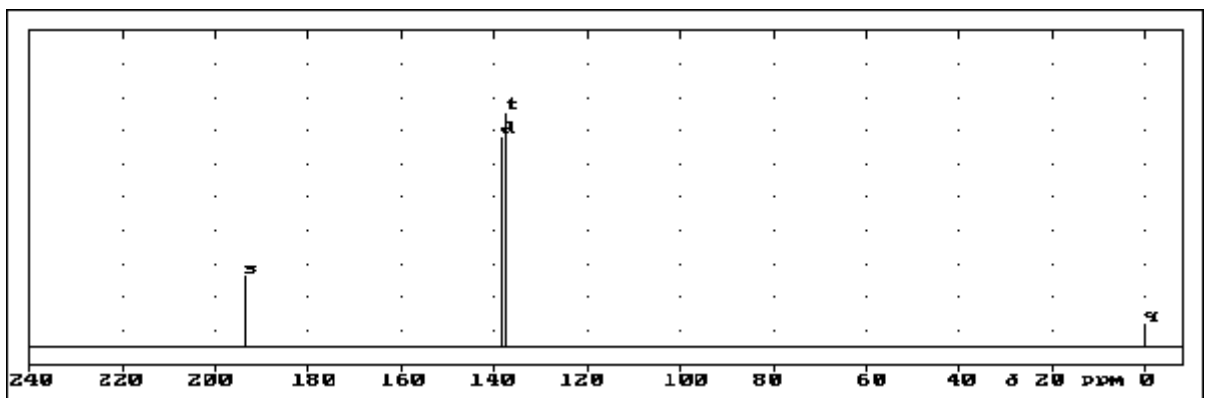
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



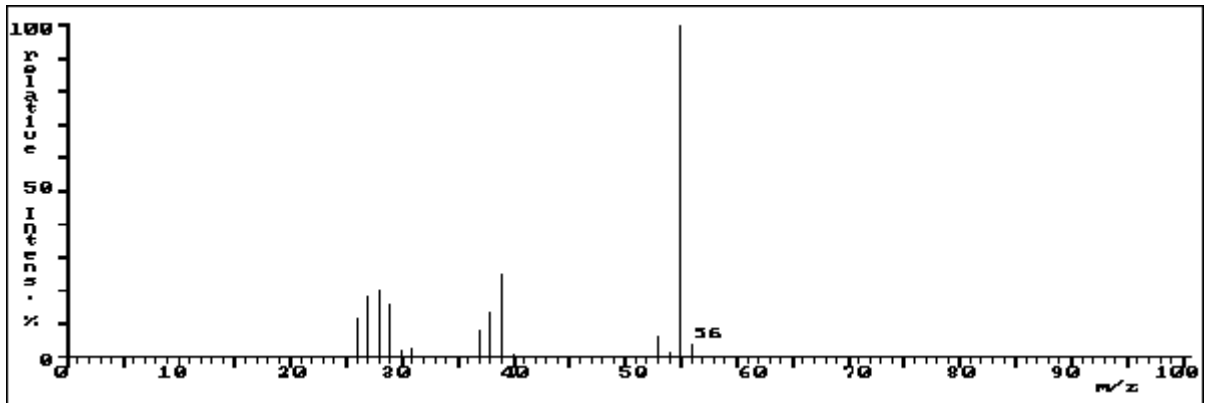
5. <sup>13</sup>C-NMR-Spektrum:



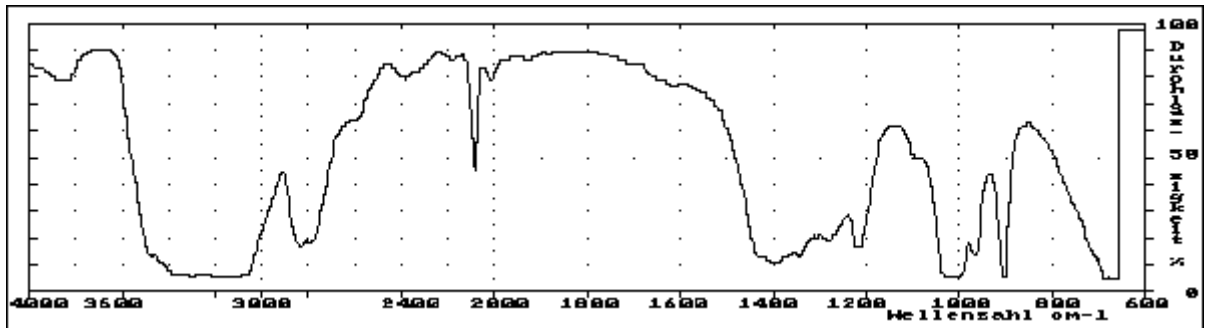
1. Quantitative Analyse:

C: 64.27 %	H: 07.19 %	O:				enthält: C, H, O
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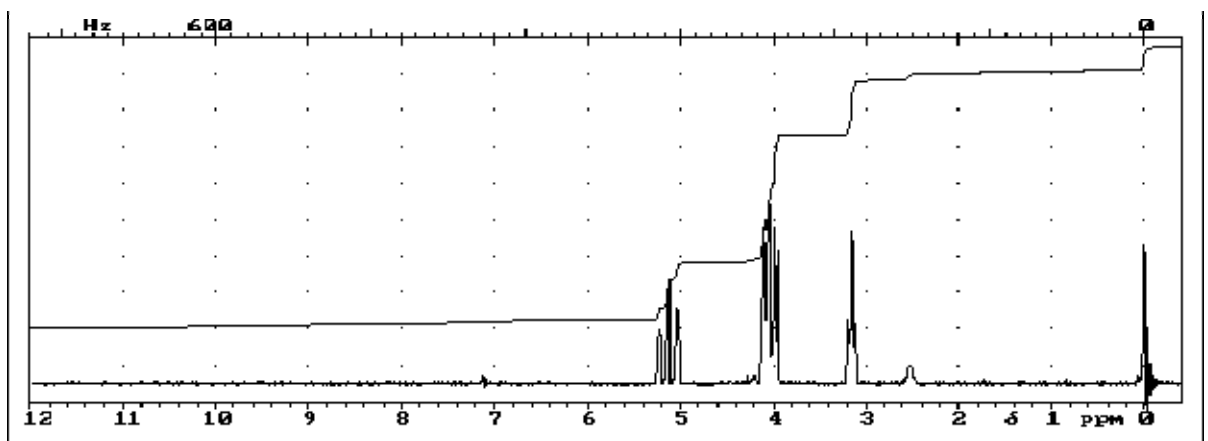
2. MS-Spektrum



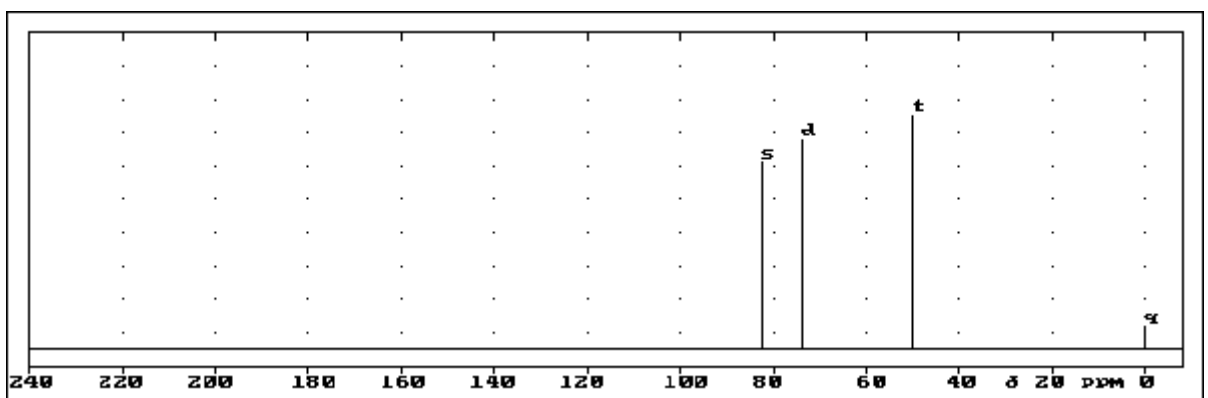
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



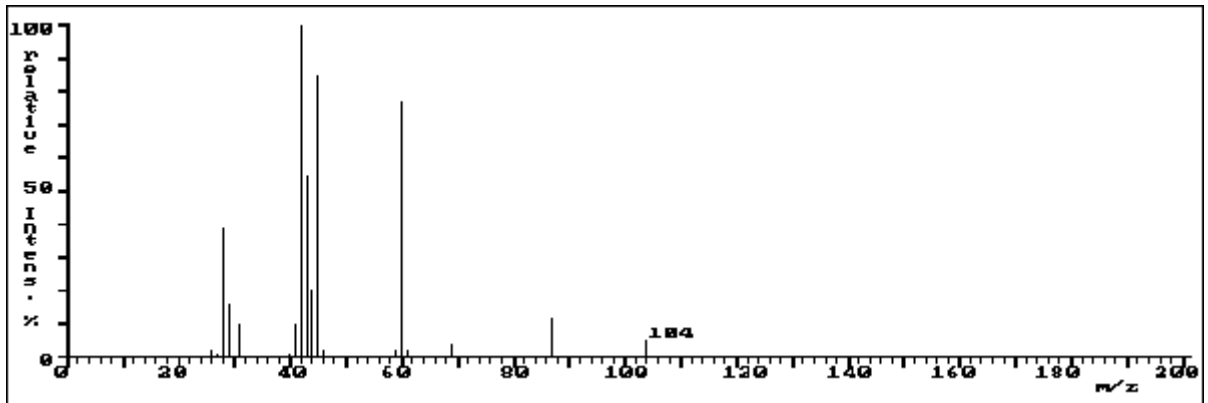
5. <sup>13</sup>C-NMR-Spektrum:



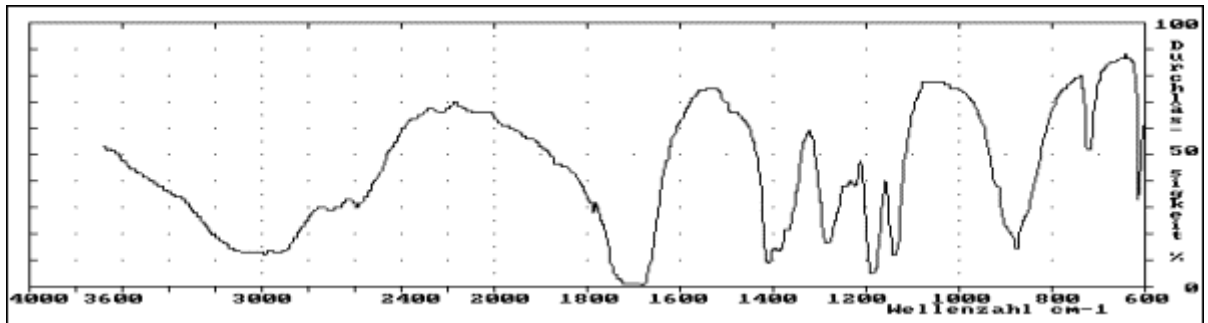
1. Quantitative Analyse:

C: 34.63 %	H: 03.87 %	O:				enthält: C, H, O
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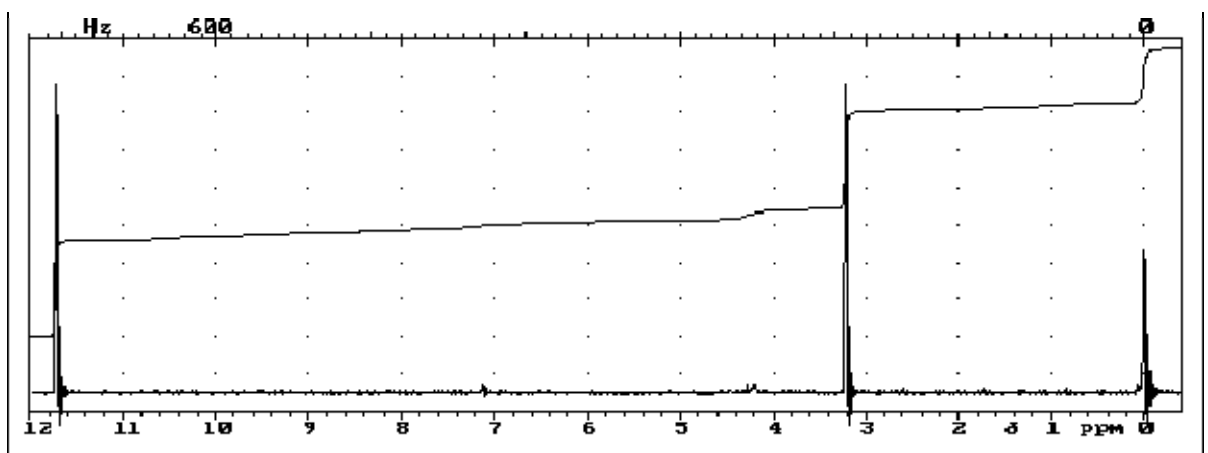
2. MS-Spektrum



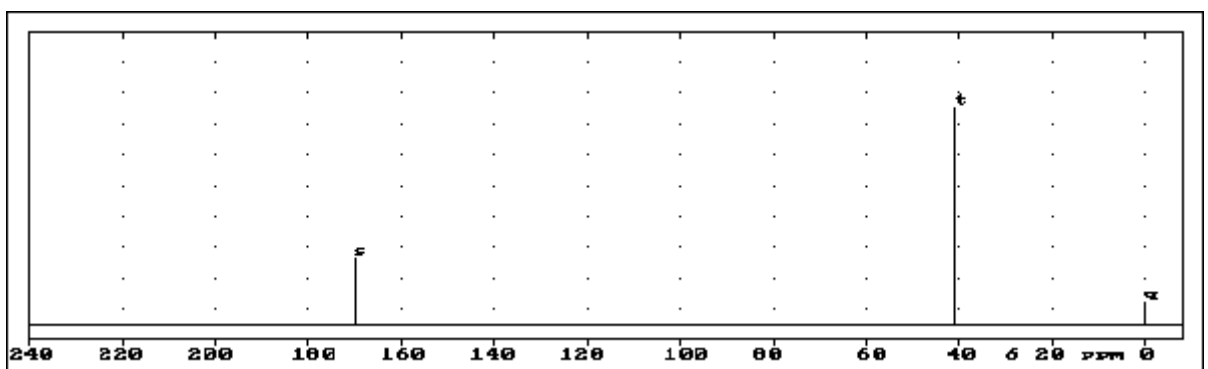
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



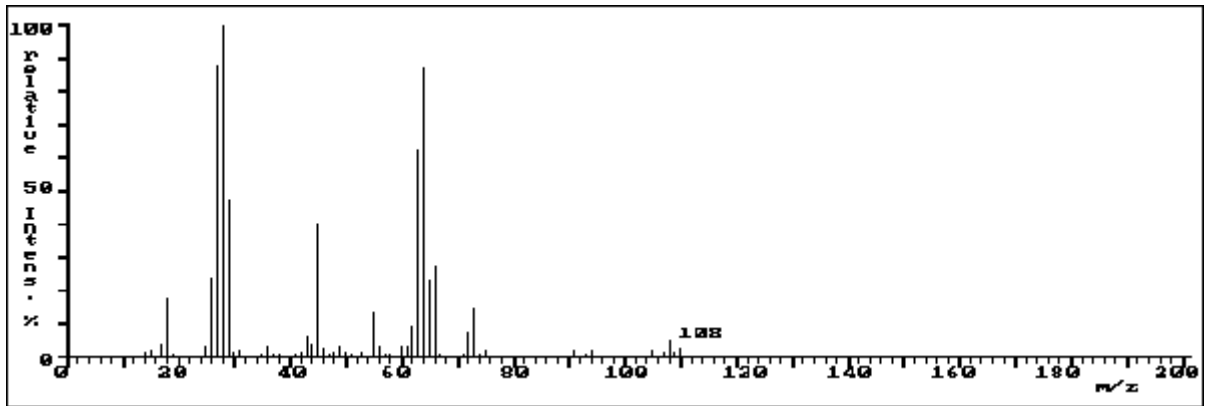
5. <sup>13</sup>C-NMR-Spektrum:



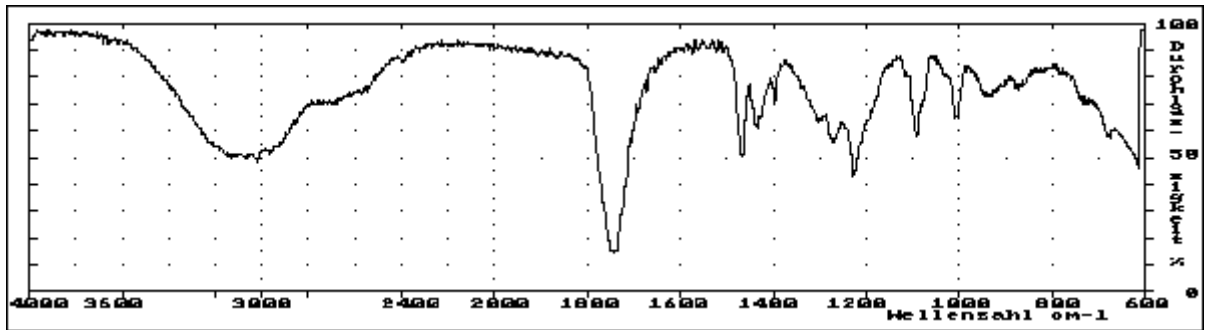
1. Quantitative Analyse:

C: 33.20 %	H: 04.64 %	O:				enthält: C, H, O, Cl
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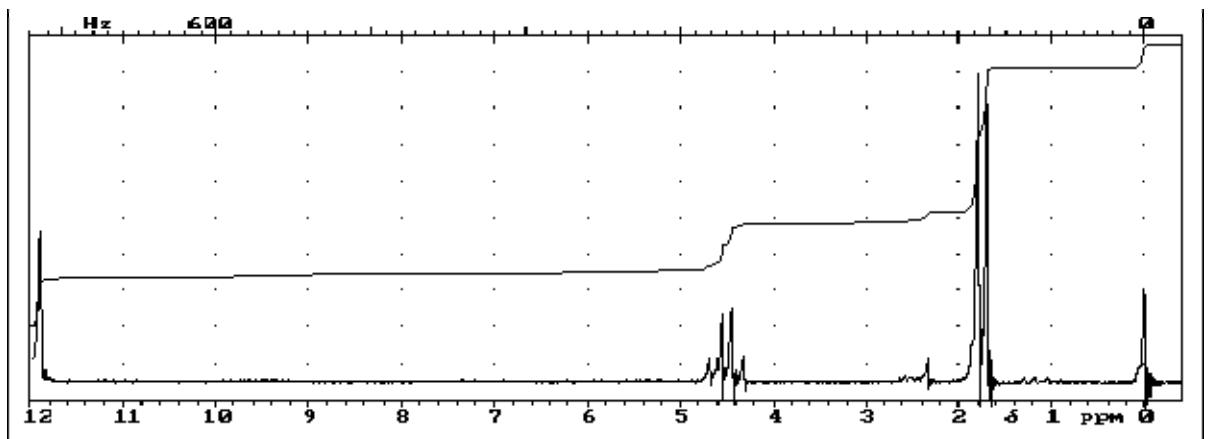
2. MS-Spektrum



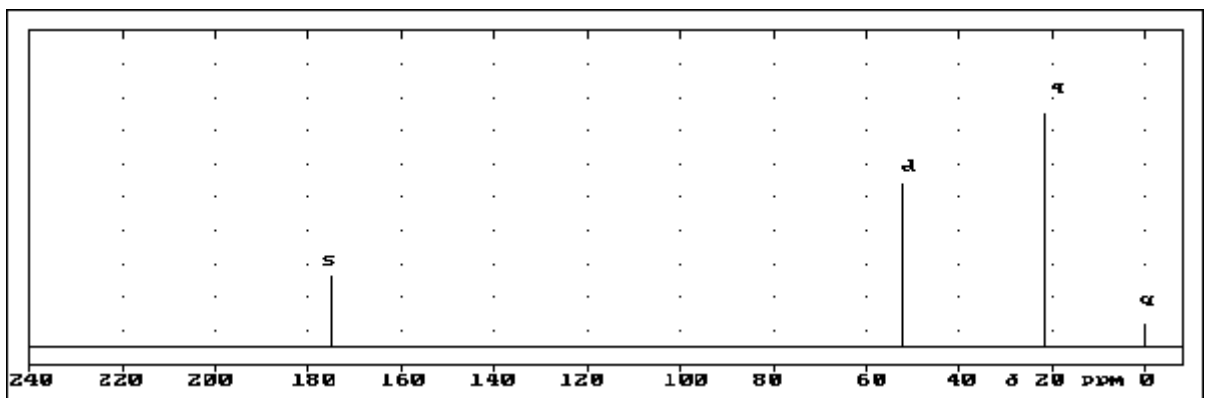
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



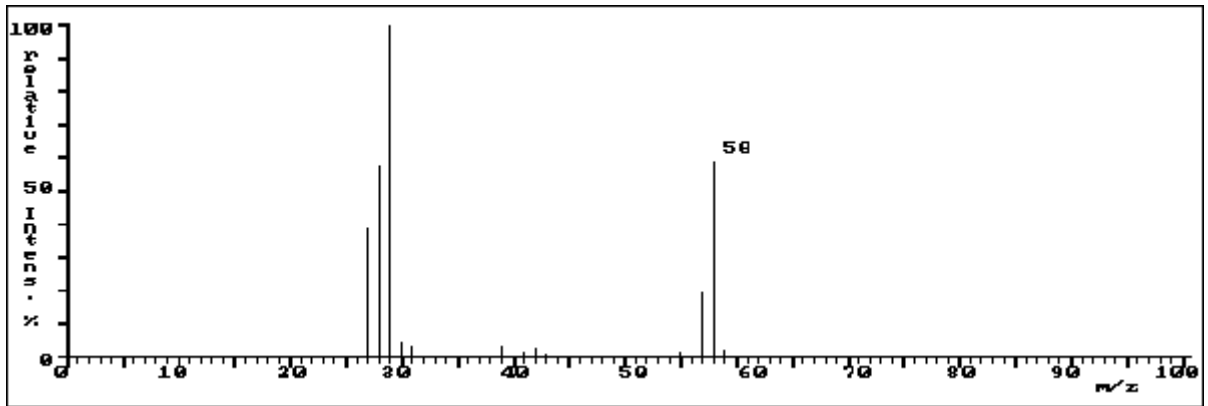
5. <sup>13</sup>C-NMR-Spektrum:



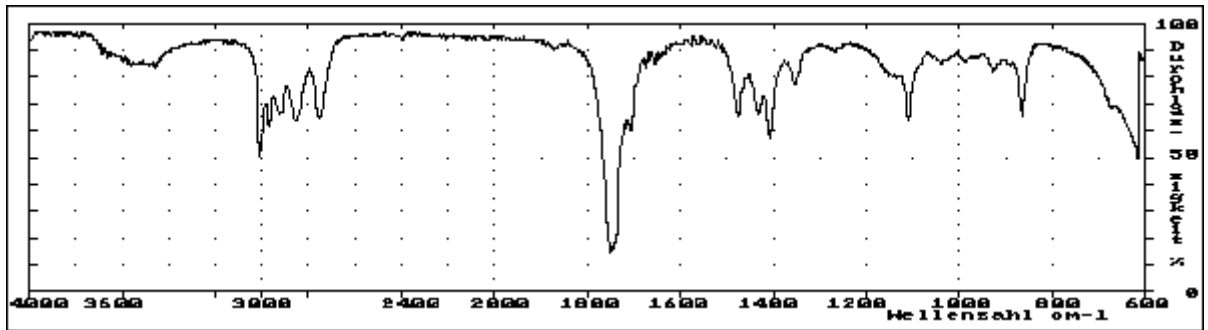
1. Quantitative Analyse:

C: 62.04 %	H: 10.41 %	O:				enthält: C, H, O
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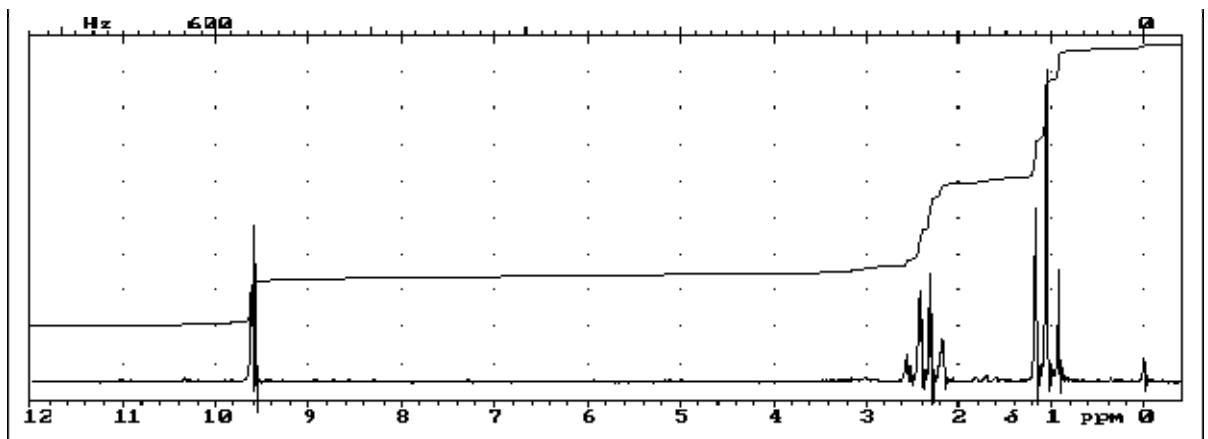
2. MS-Spektrum



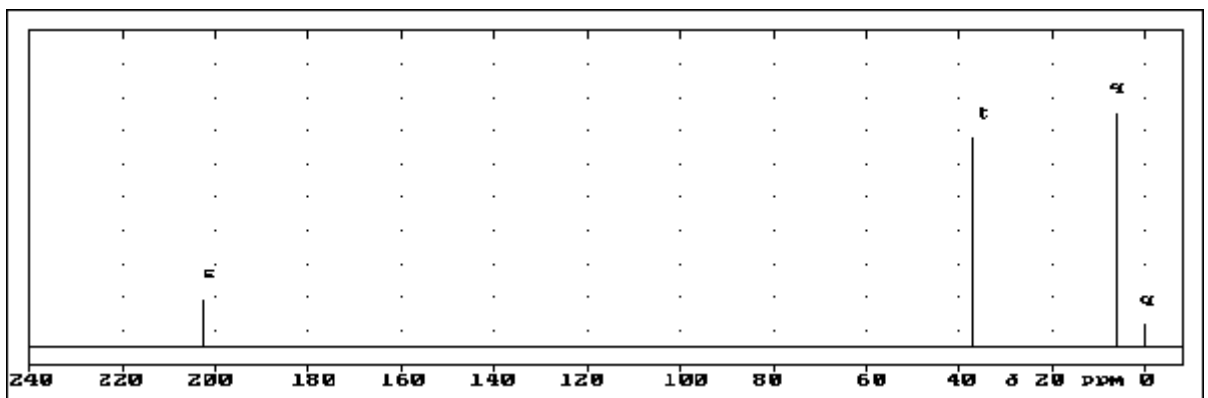
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



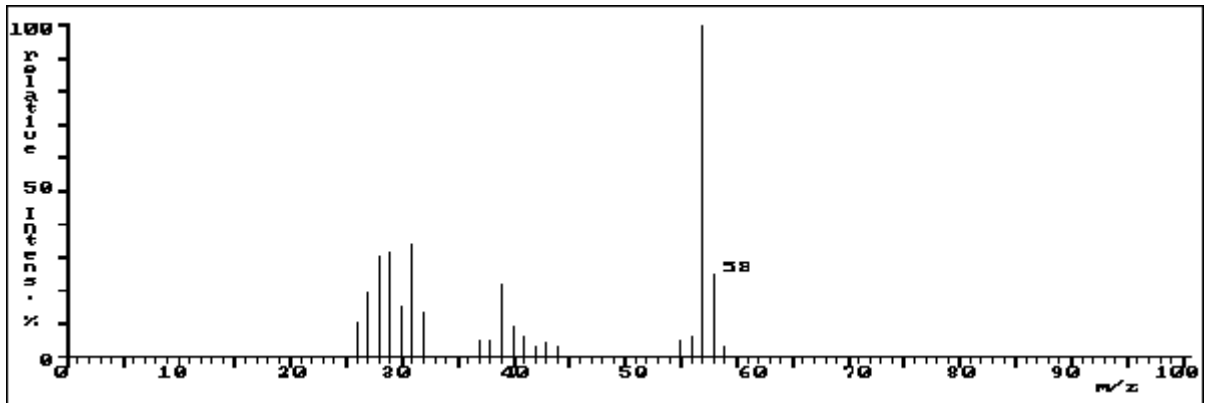
5. <sup>13</sup>C-NMR-Spektrum:



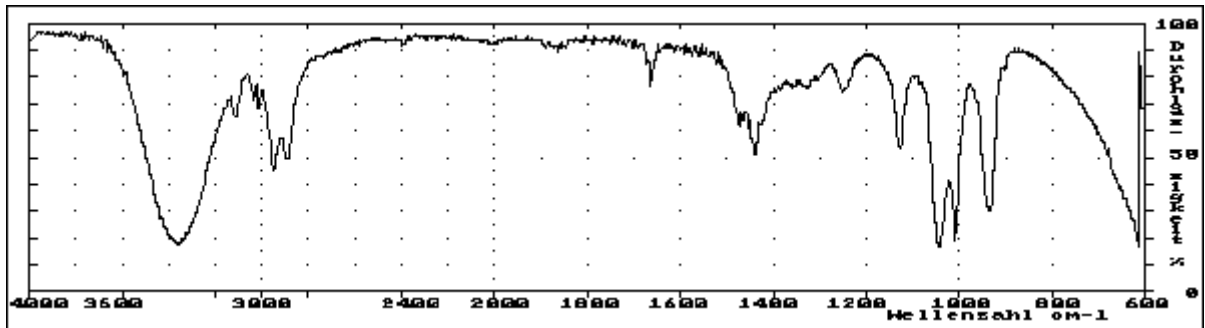
1. Quantitative Analyse:

C: 62.04 %	H: 10.41 %	O:				enthält: C, H, O
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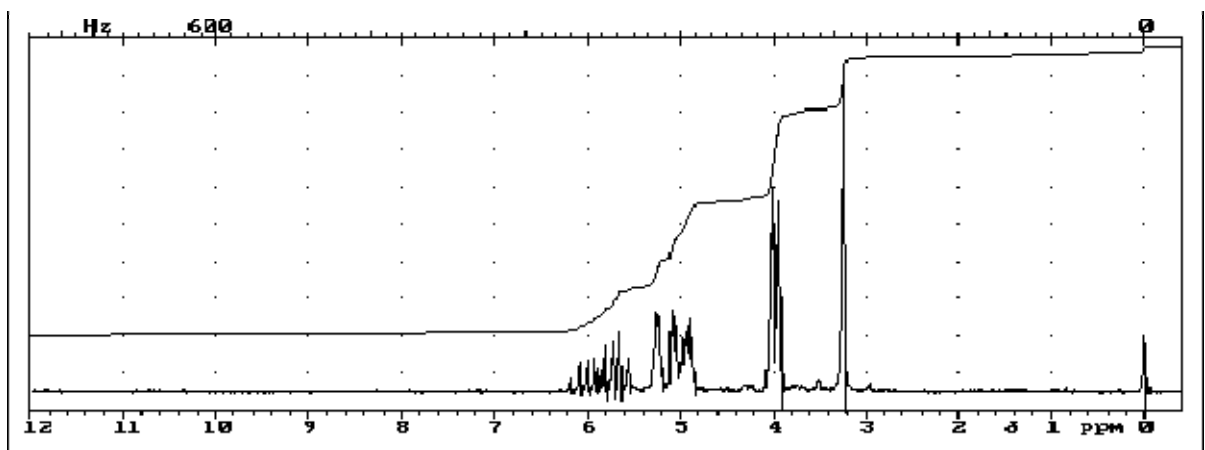
2. MS-Spektrum



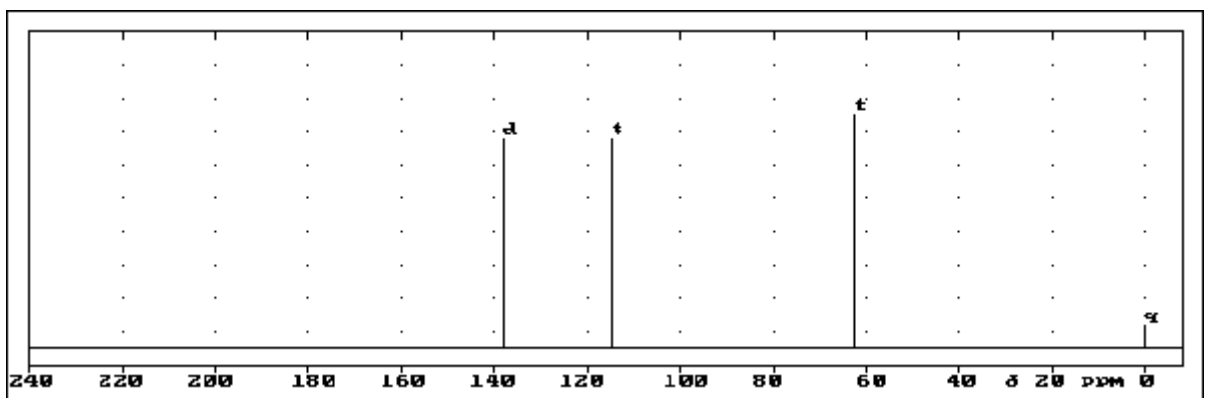
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

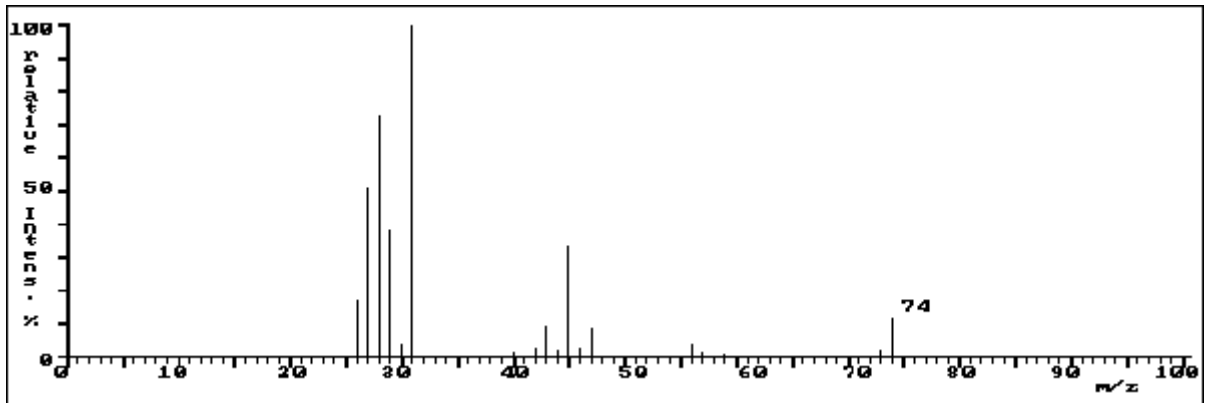




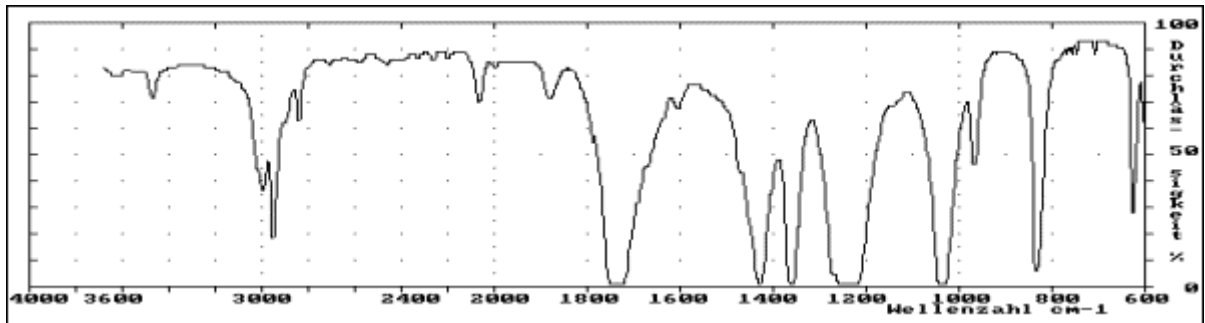
1. Quantitative Analyse:

C: 48.64 %	H: 08.16 %	O:				enthält: C, H, O
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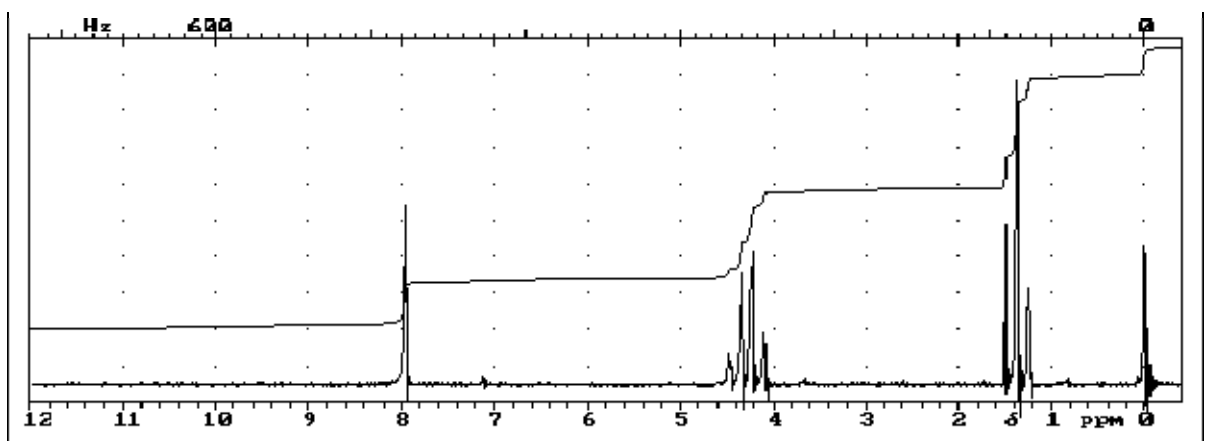
2. MS-Spektrum



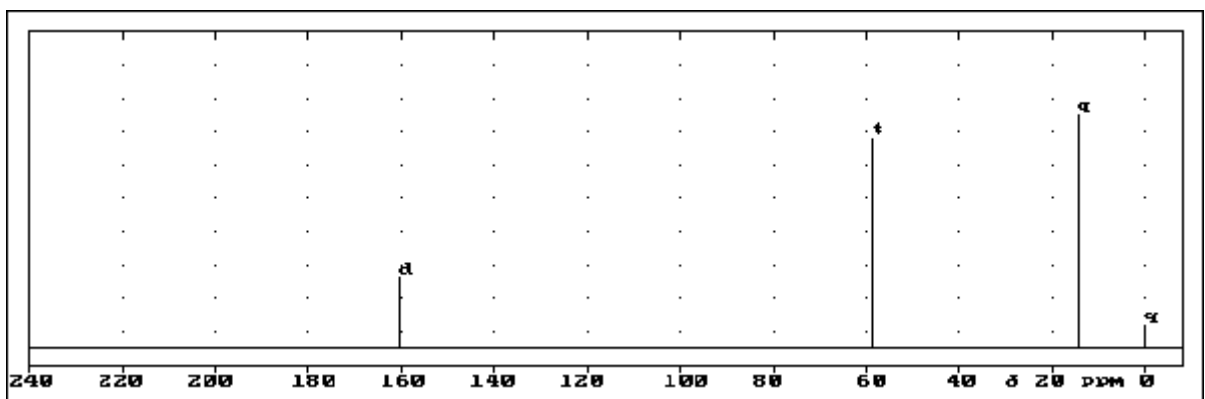
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



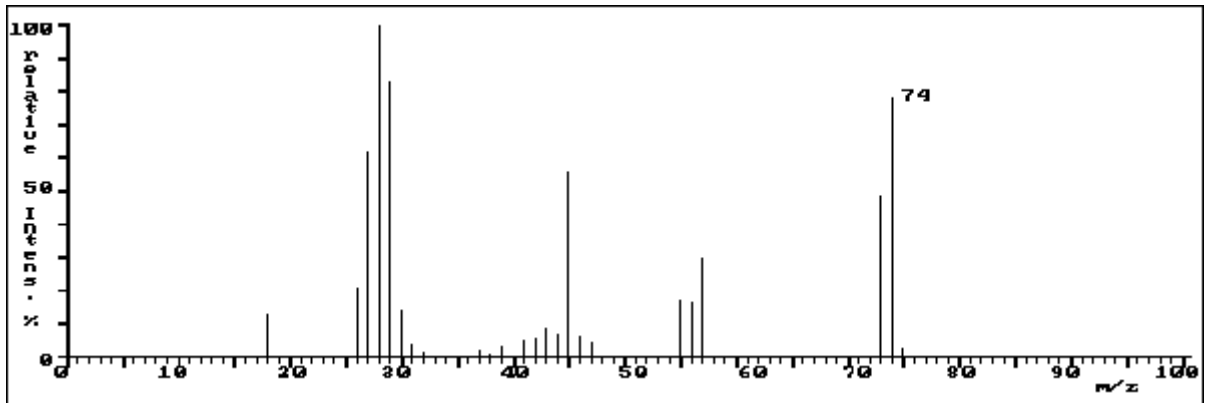
5. <sup>13</sup>C-NMR-Spektrum:



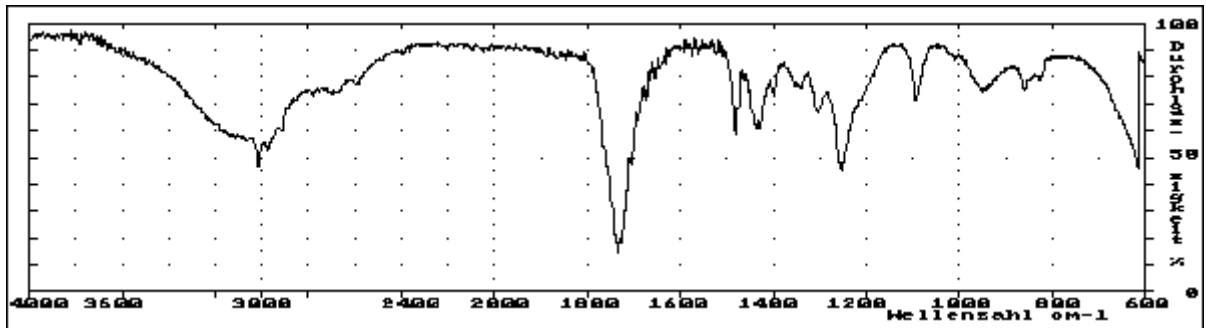
1. Quantitative Analyse:

C: 48.64 %	H: 08.16 %	O:				enthält: C, H, O
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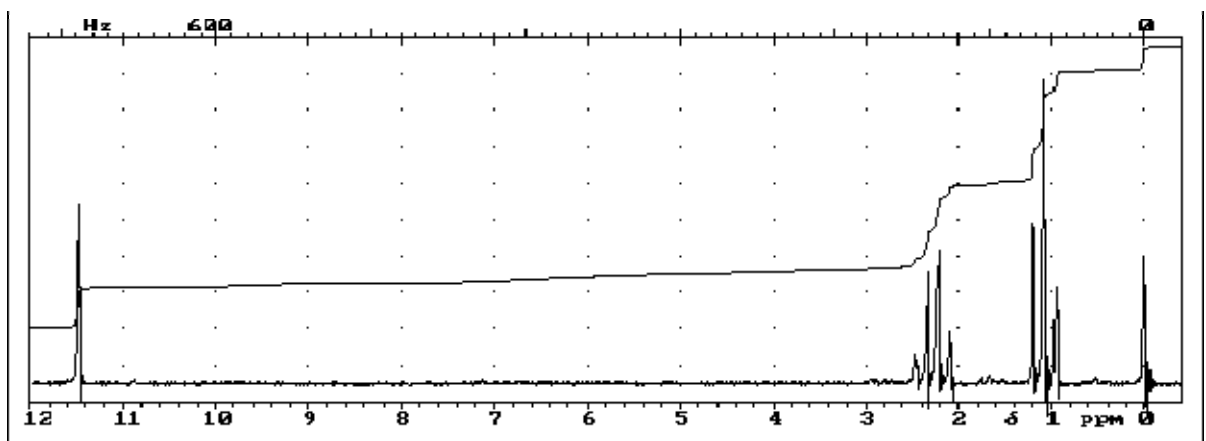
2. MS-Spektrum



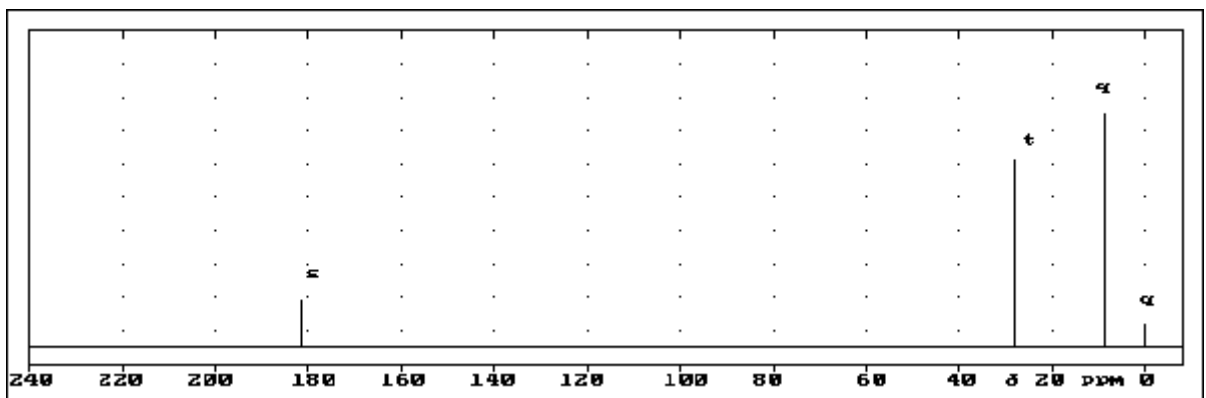
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



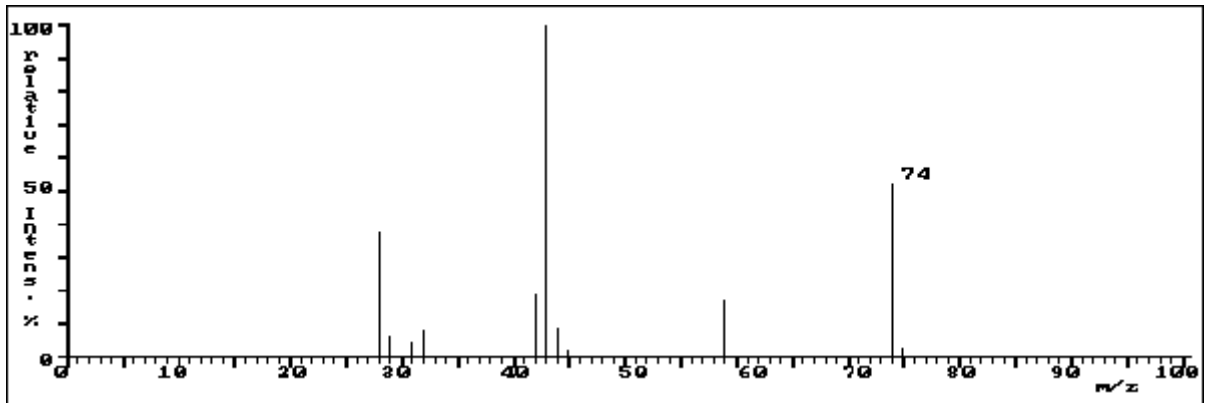
5. <sup>13</sup>C-NMR-Spektrum:



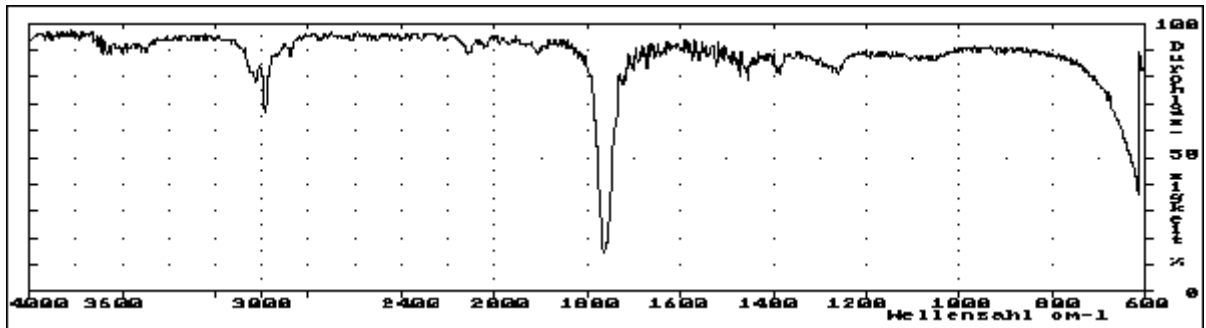
1. Quantitative Analyse:

C: 48.64 %	H: 08.19 %	O:				enthält: C, H, O
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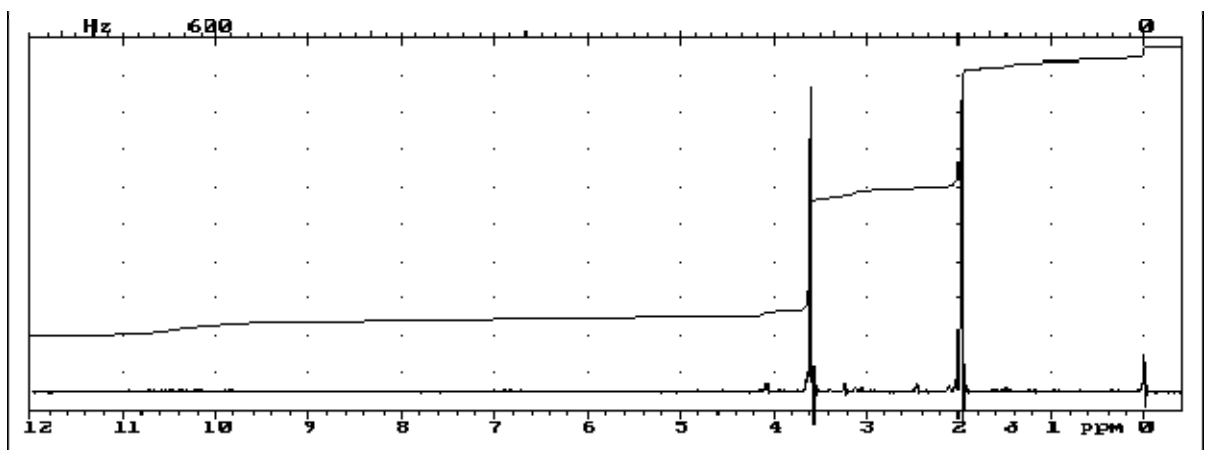
2. MS-Spektrum



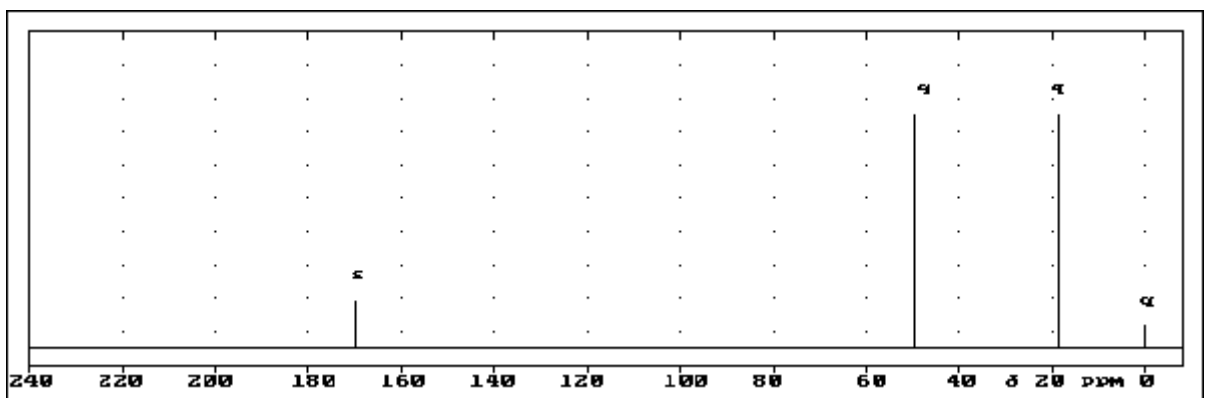
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



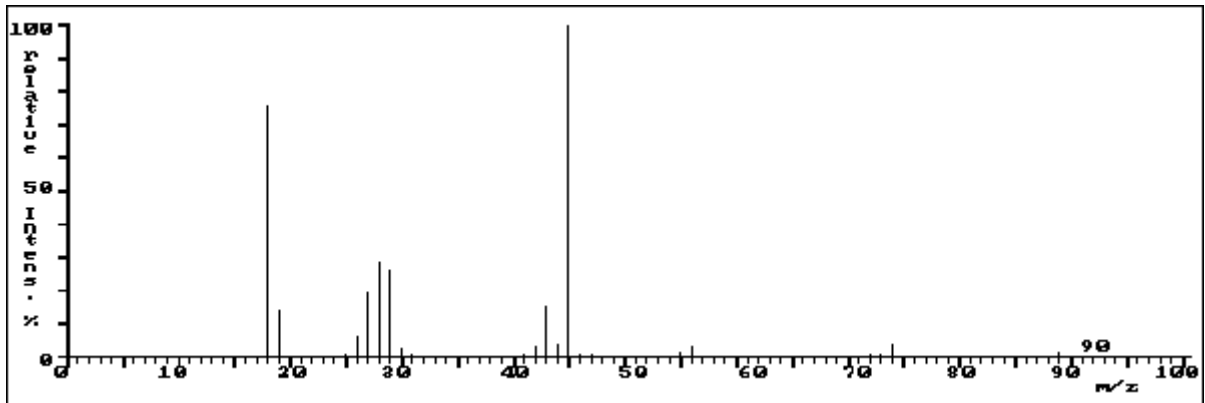
5. <sup>13</sup>C-NMR-Spektrum:



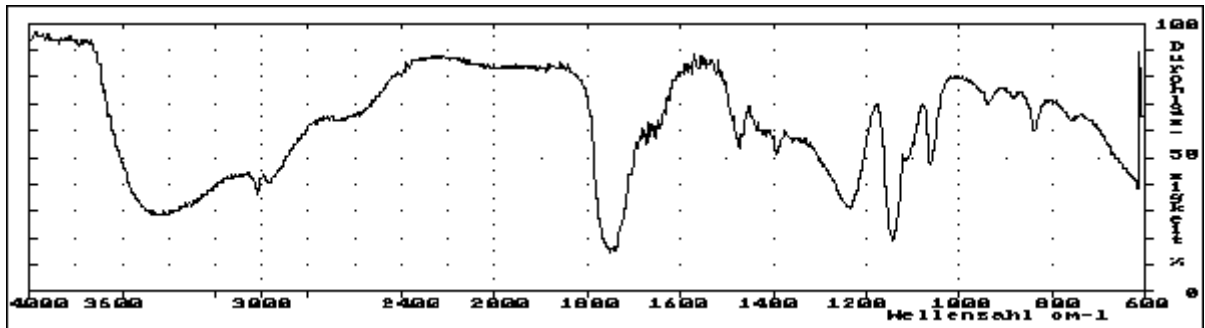
1. Quantitative Analyse:

C: 40.00 %	H: 06.71 %	O:				enthält: C, H, O
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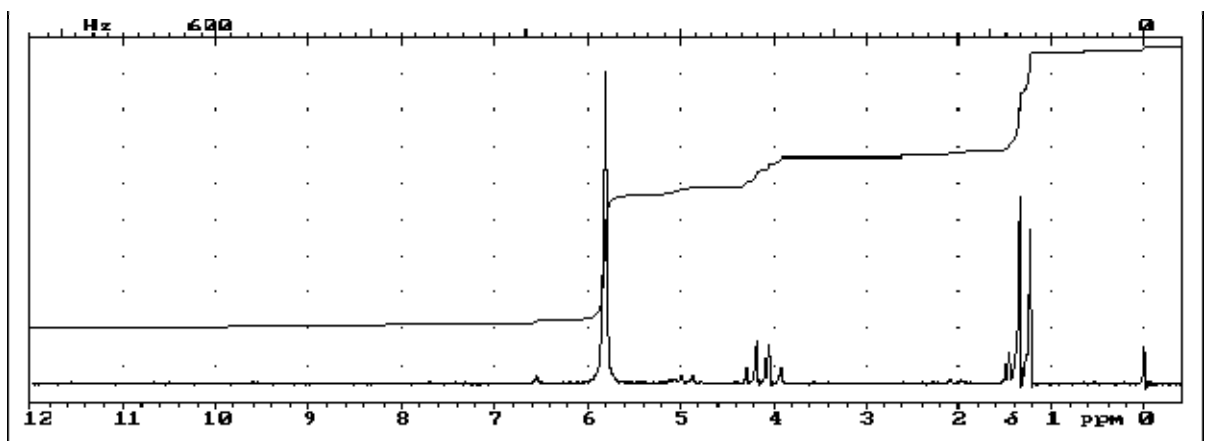
2. MS-Spektrum



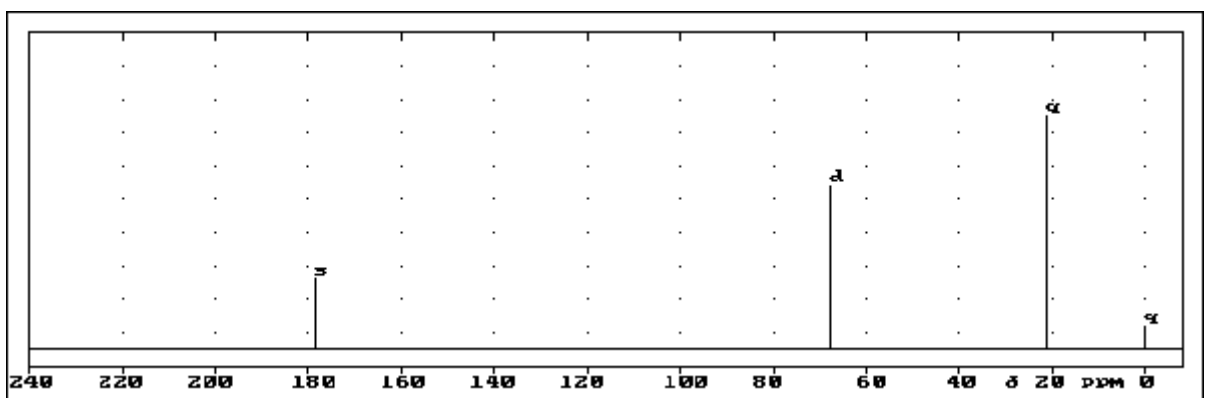
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



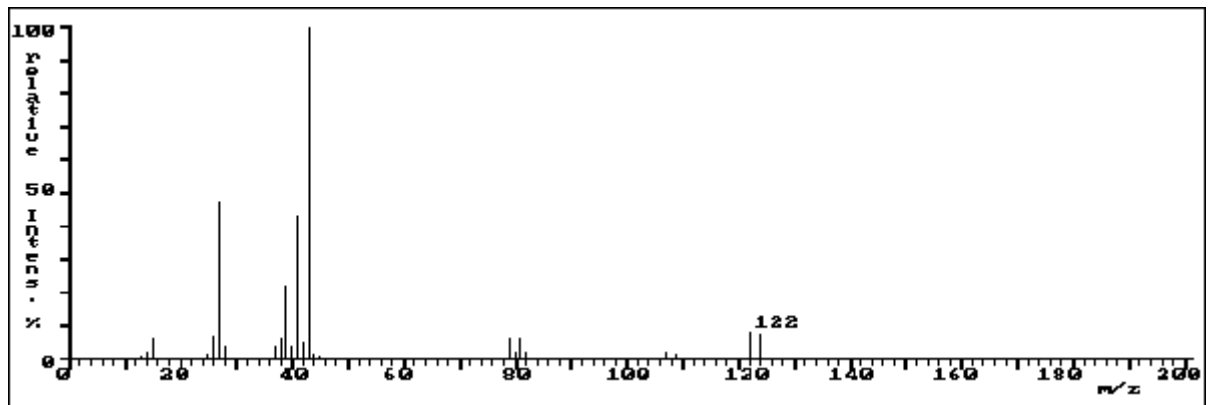
5. <sup>13</sup>C-NMR-Spektrum:



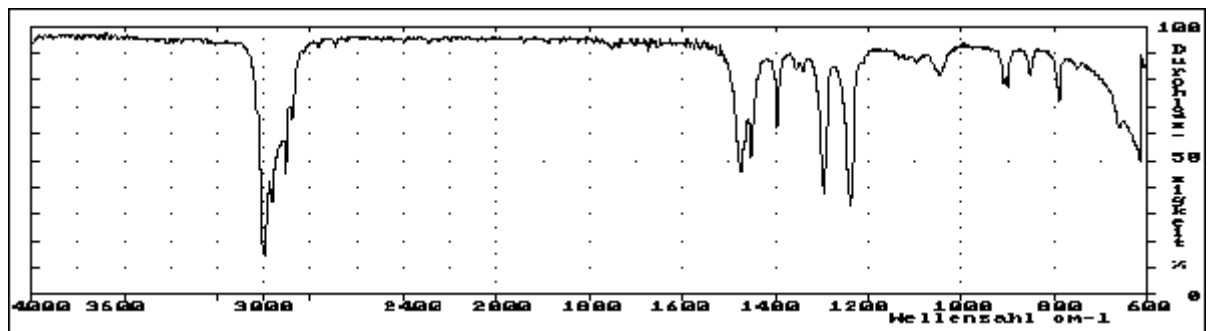
1. Quantitative Analyse:

C: 29.30 %	H: 05.74 %	O:				enthält: C, H, Br
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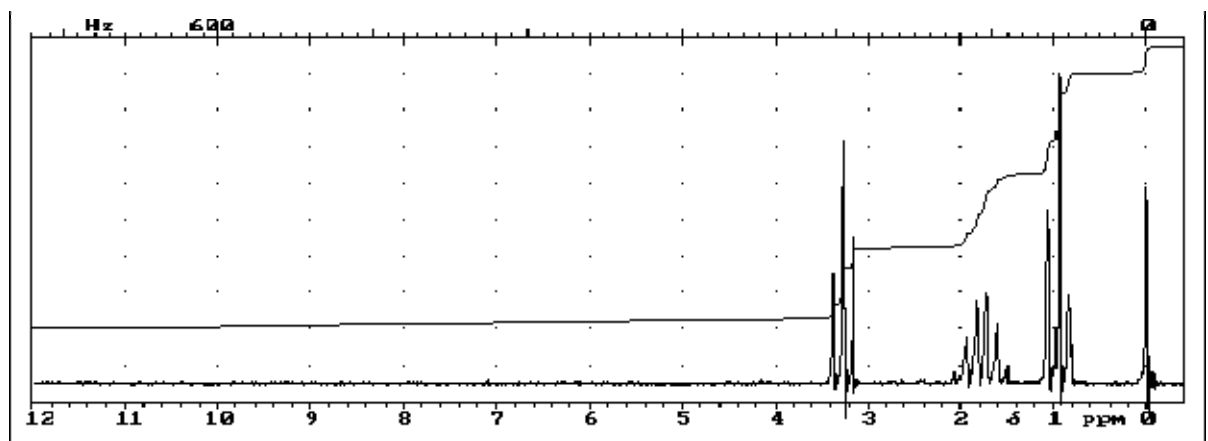
2. MS-Spektrum



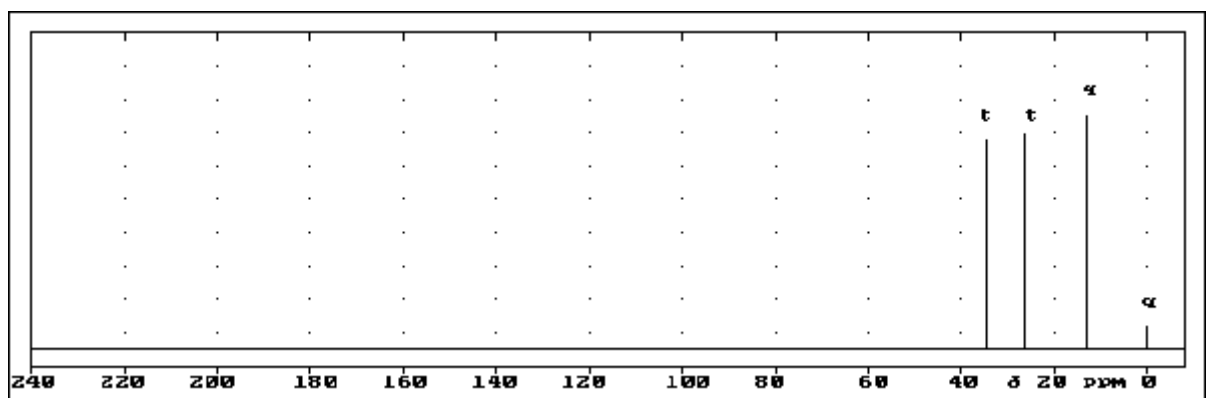
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



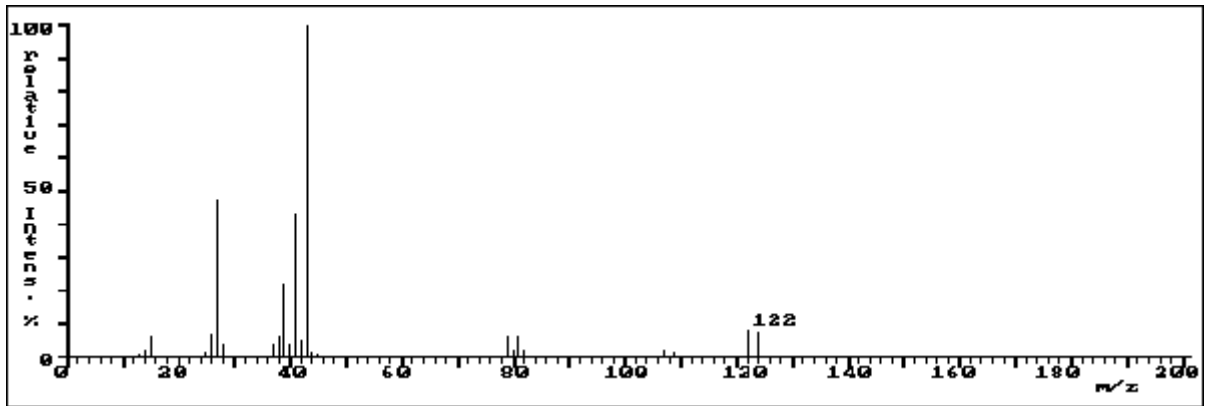
5. <sup>13</sup>C-NMR-Spektrum:



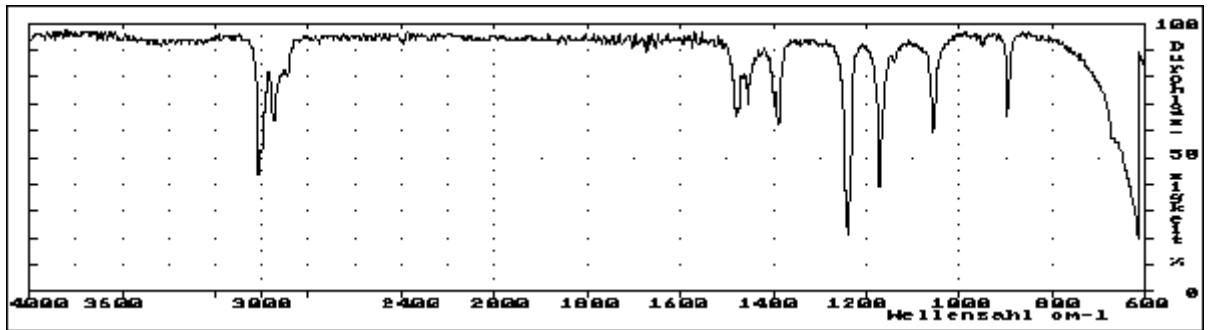
1. Quantitative Analyse:

C: 29.30 %	H: 05.74 %	O:				enthält: C, H, Br
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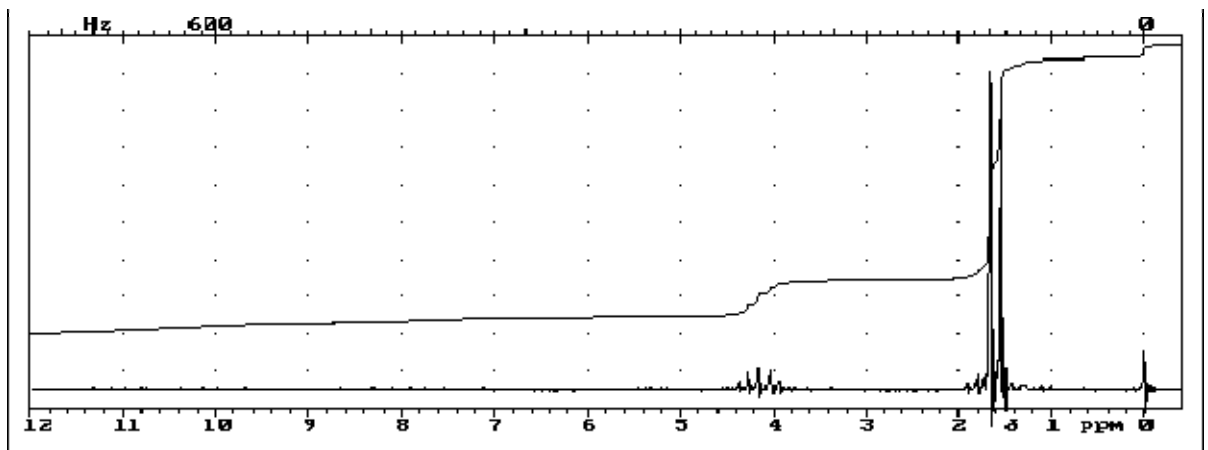
2. MS-Spektrum



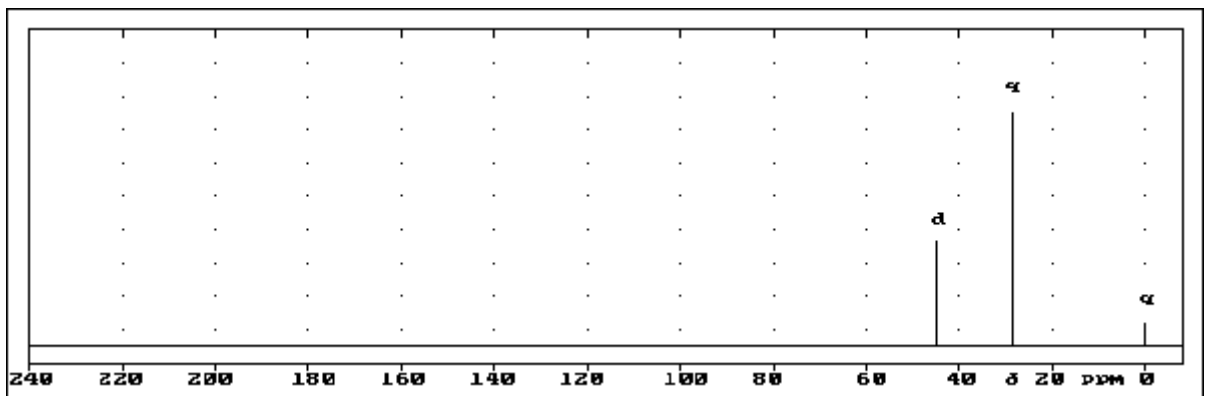
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



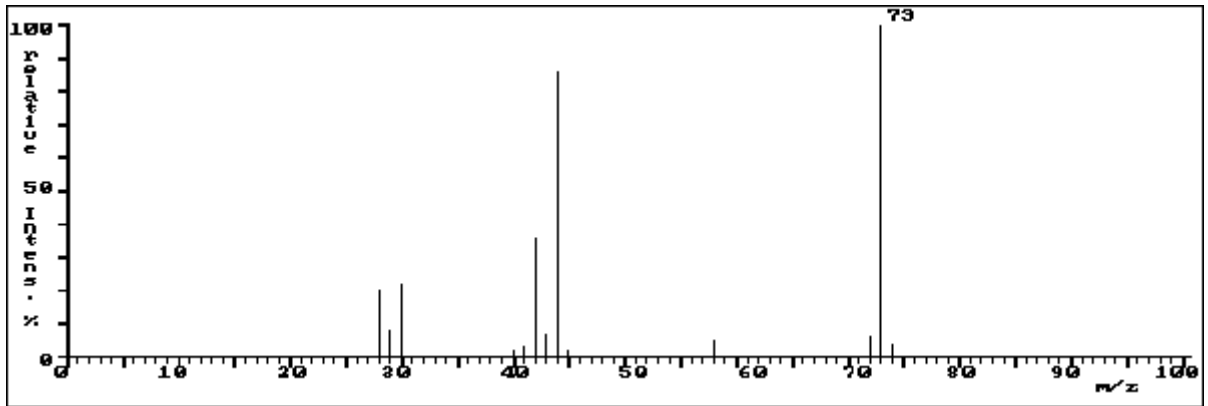
5. <sup>13</sup>C-NMR-Spektrum:



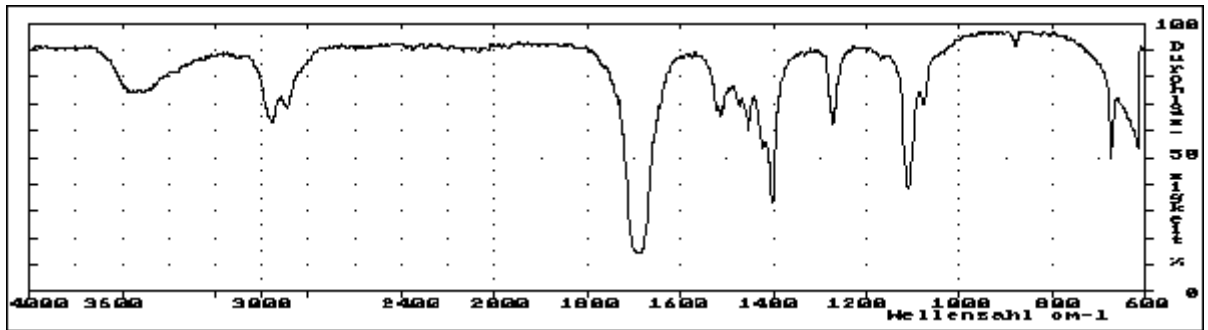
1. Quantitative Analyse:

C: 49.30 %	H: 09.65%	O:				enthält: C, H, N, O
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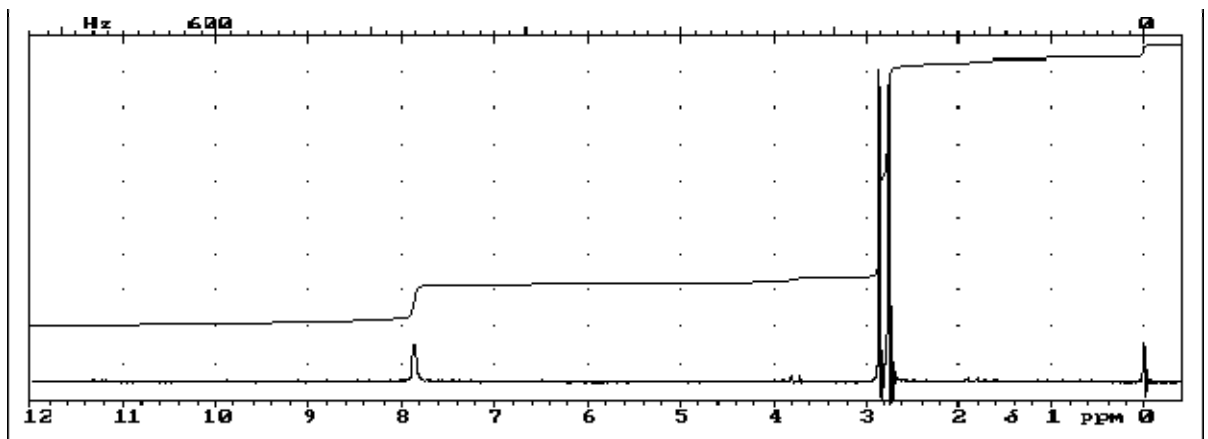
2. MS-Spektrum



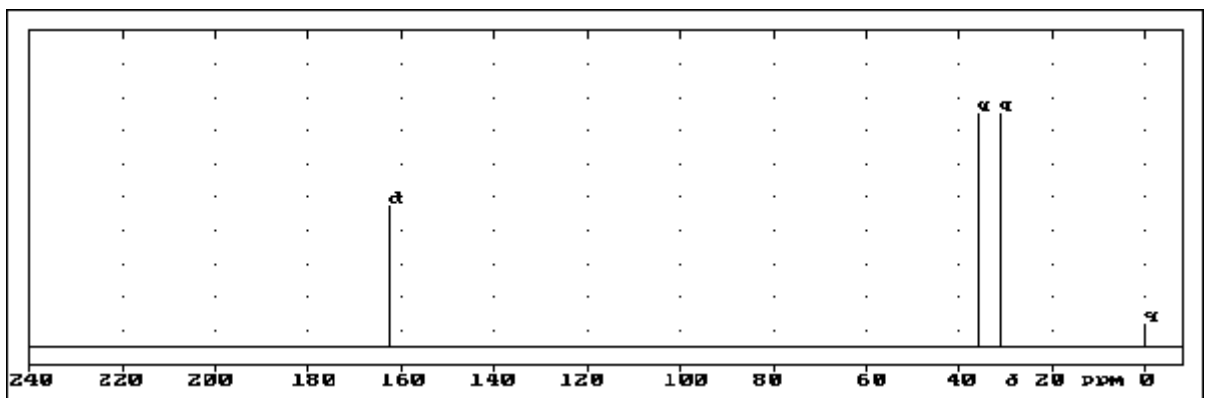
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



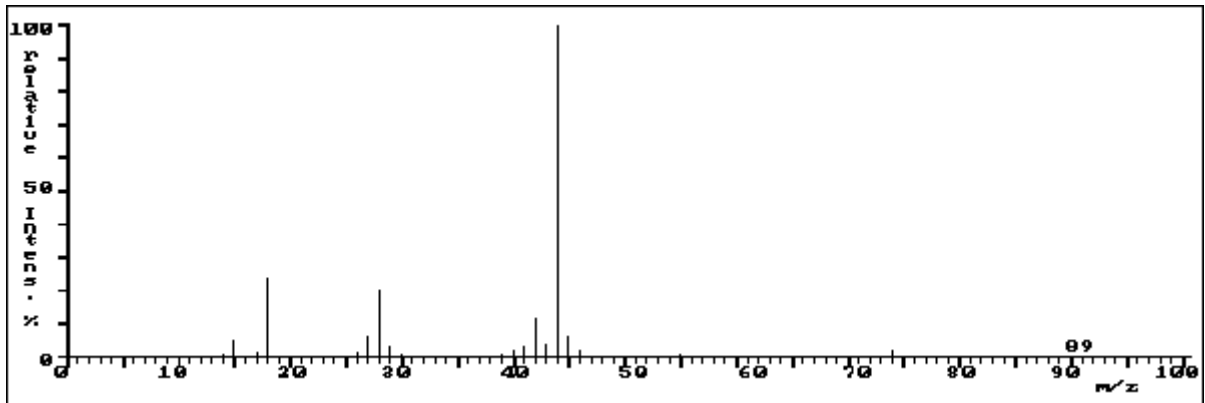
5. <sup>13</sup>C-NMR-Spektrum:



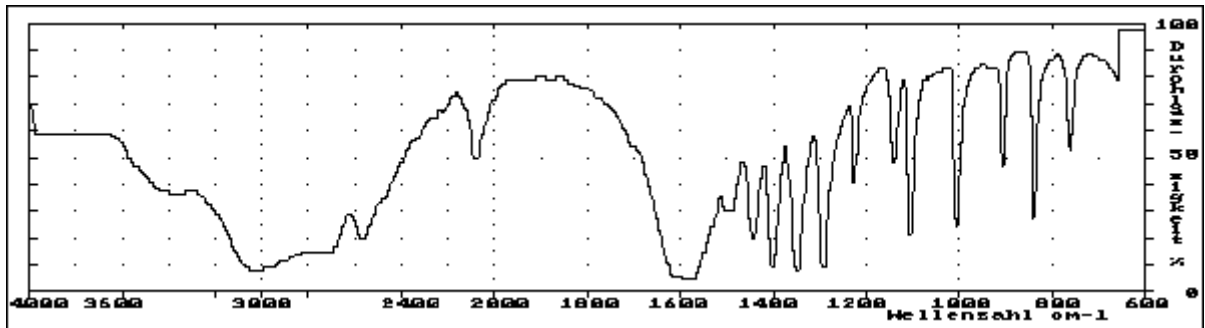
1. Quantitative Analyse:

C: 40.44 %	H: 07.92 %	O:				enthält: C, H, N, O
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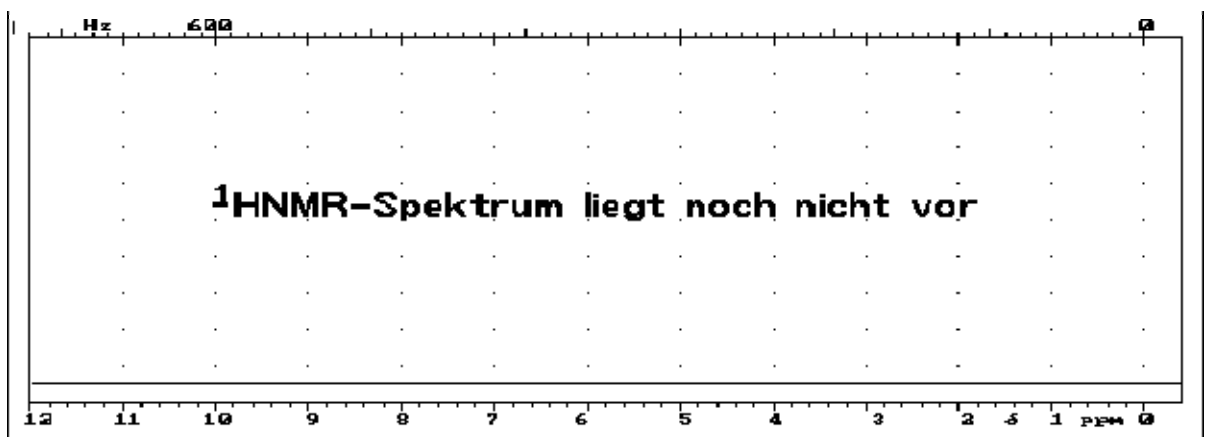
2. MS-Spektrum



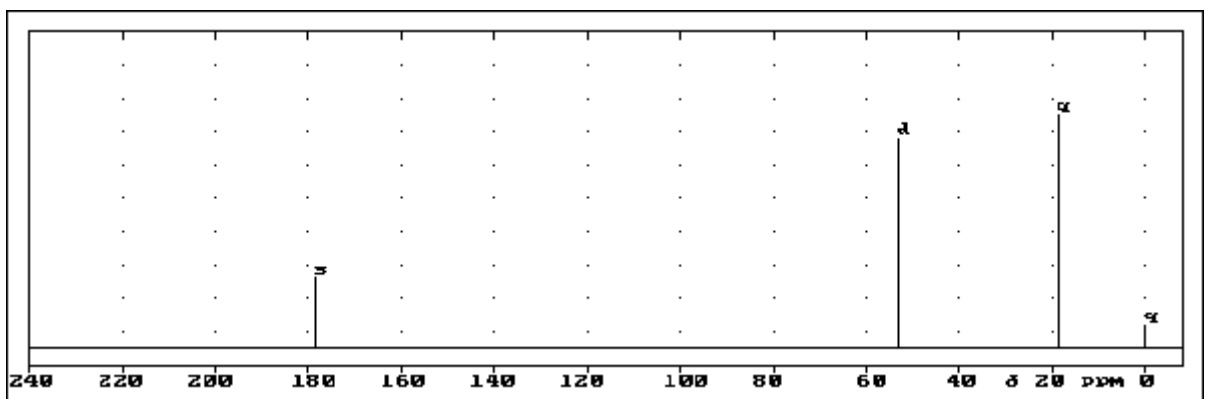
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

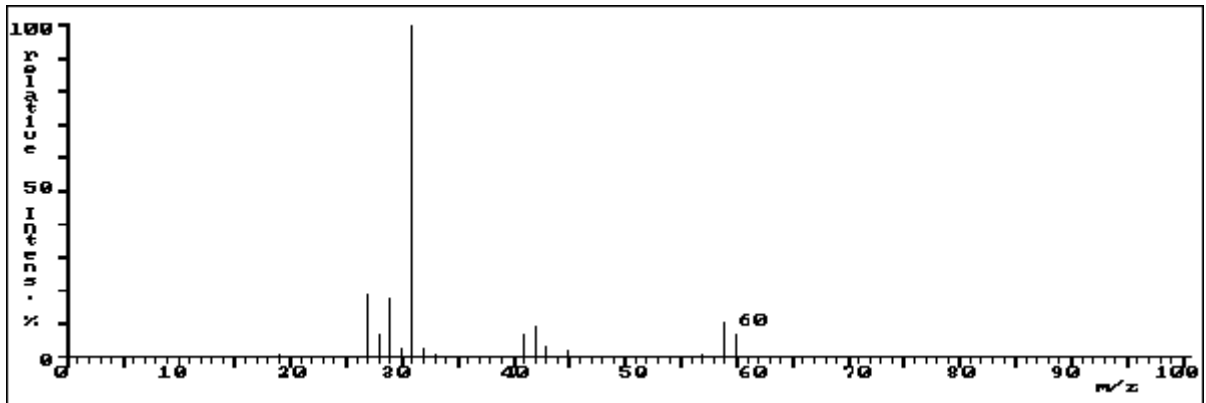




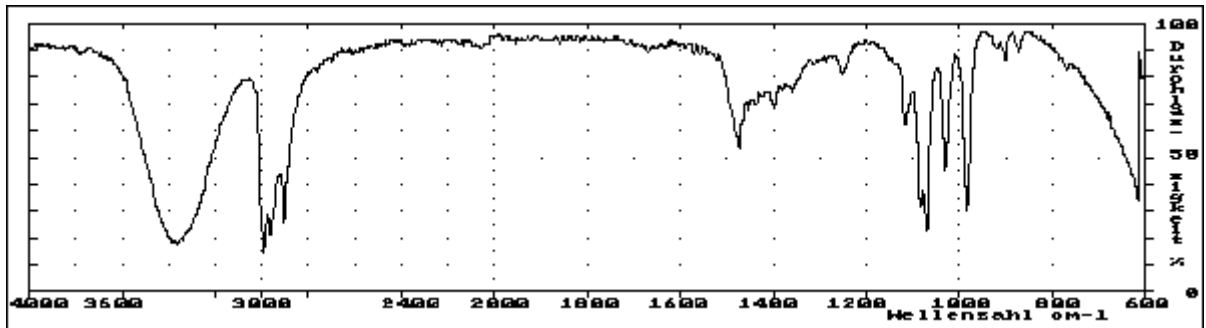
1. Quantitative Analyse:

C: 59.96 %	H: 13.42%	O:				enthält: C, H, O
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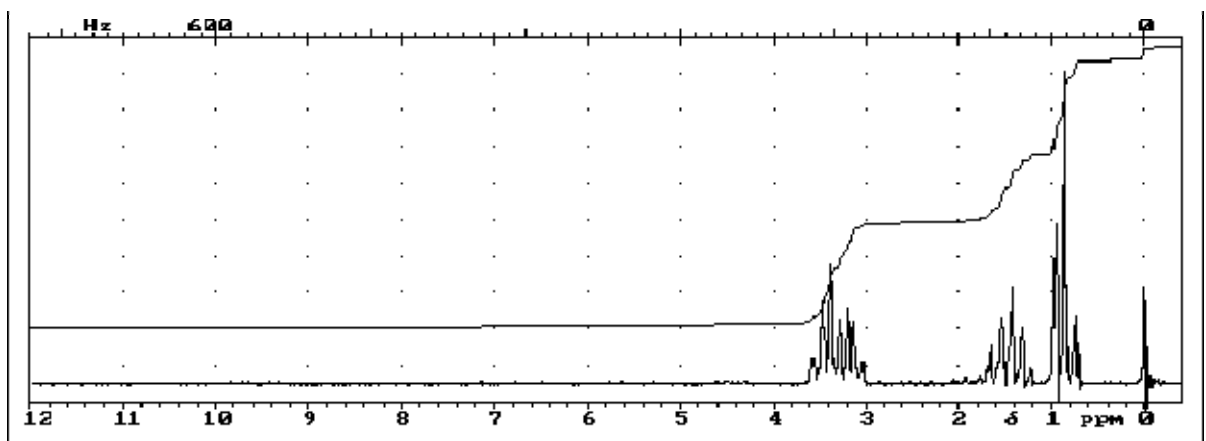
2. MS-Spektrum



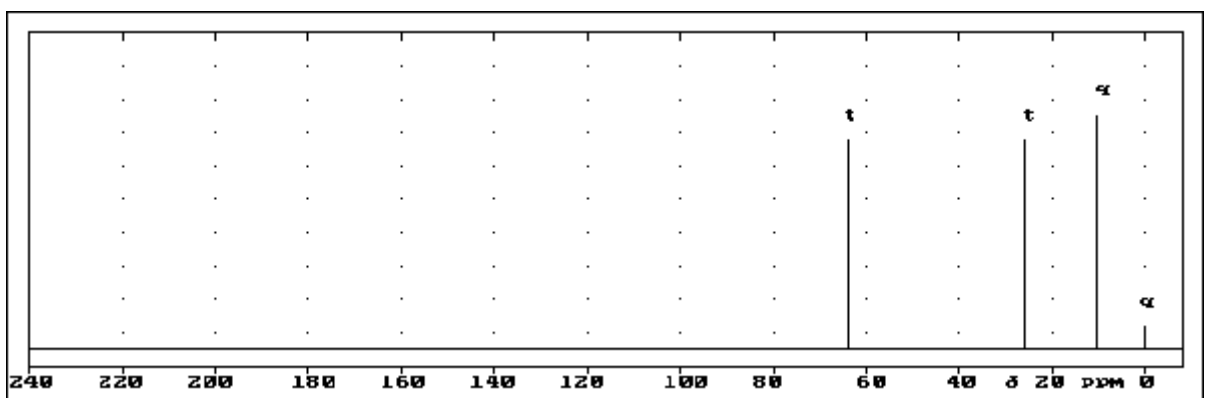
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



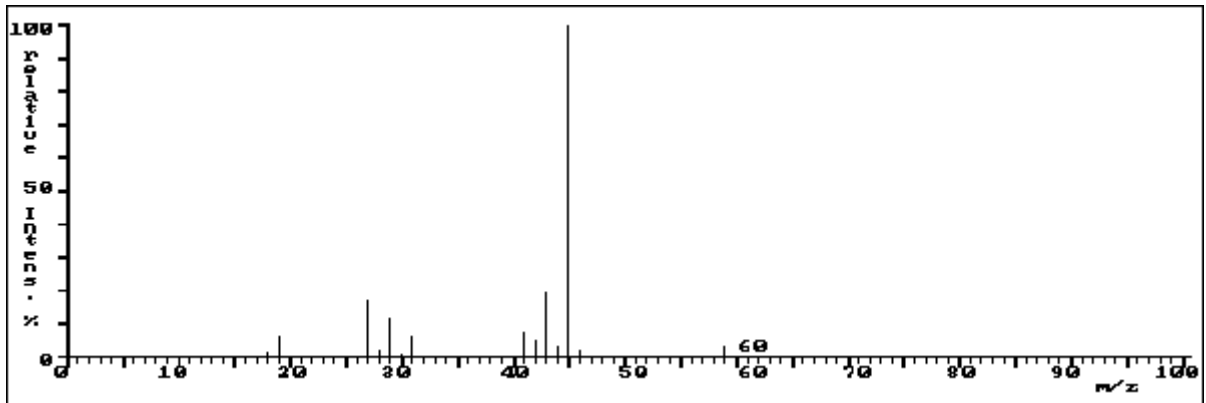
5. <sup>13</sup>C-NMR-Spektrum:



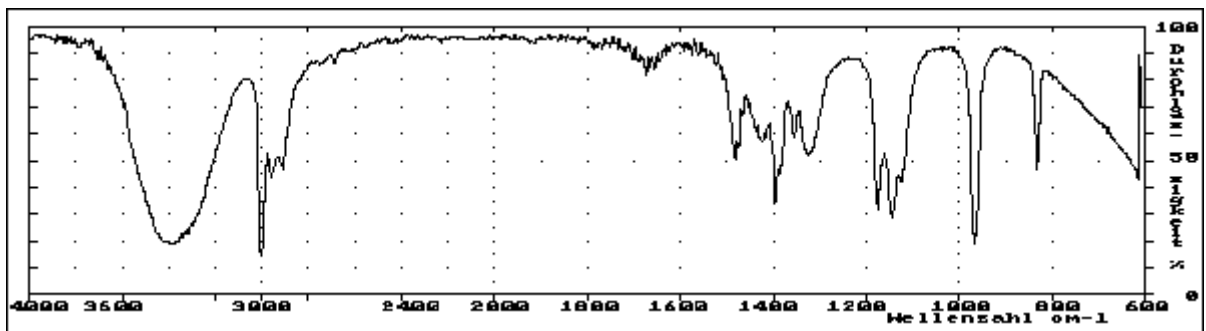
1. Quantitative Analyse:

C: 59.96 %	H: 13.42 %	O:				enthält: C, H, O
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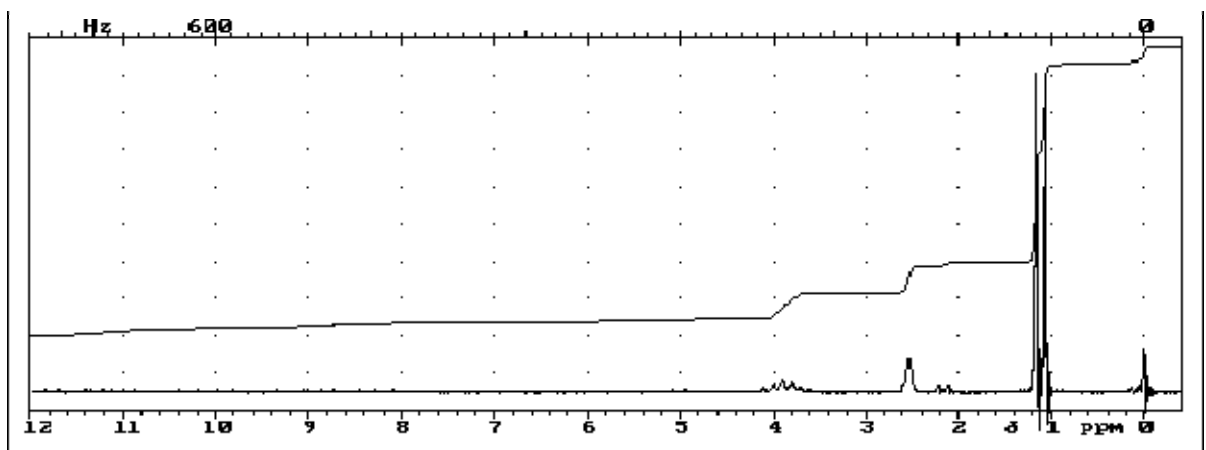
2. MS-Spektrum



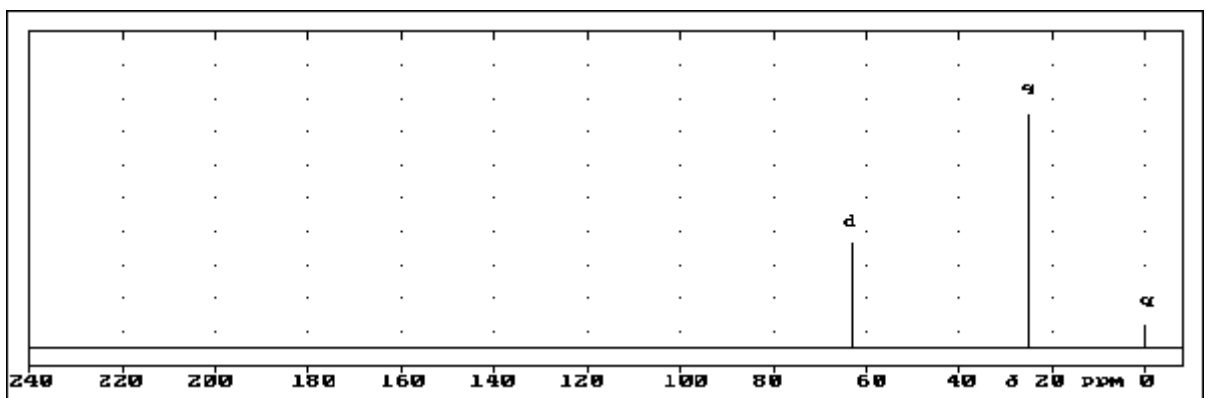
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



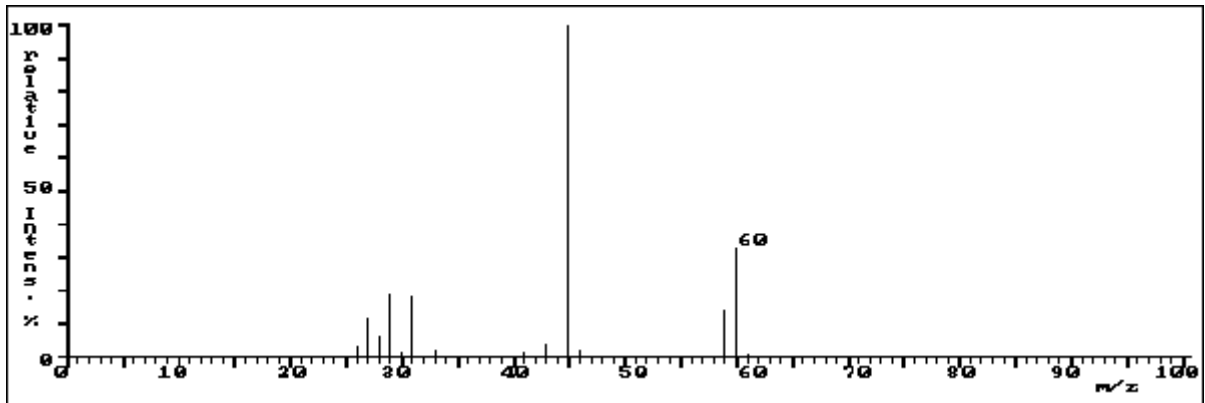
5. <sup>13</sup>C-NMR-Spektrum:



1. Quantitative Analyse:

C: 59.96 %	H: 13.42 %	O:				enthält: C, H, O
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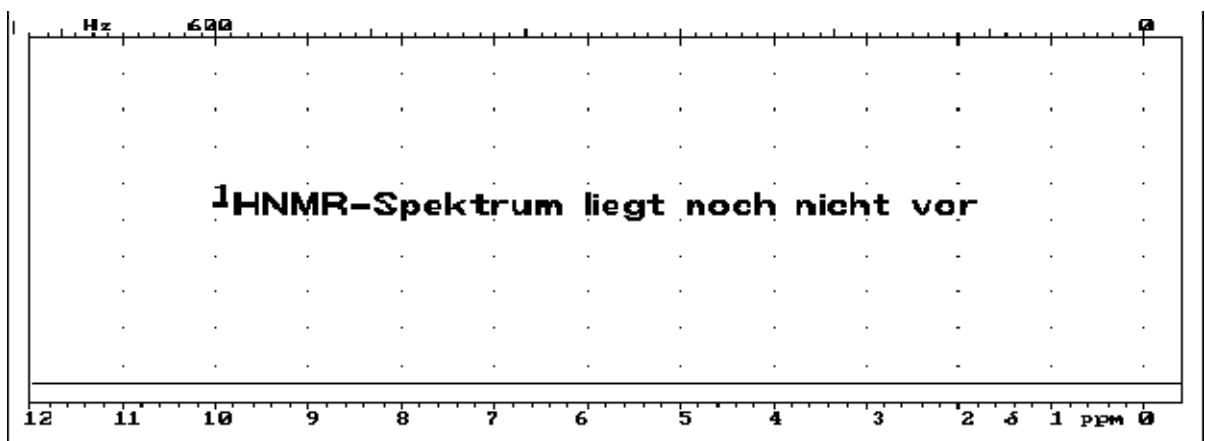
2. MS-Spektrum



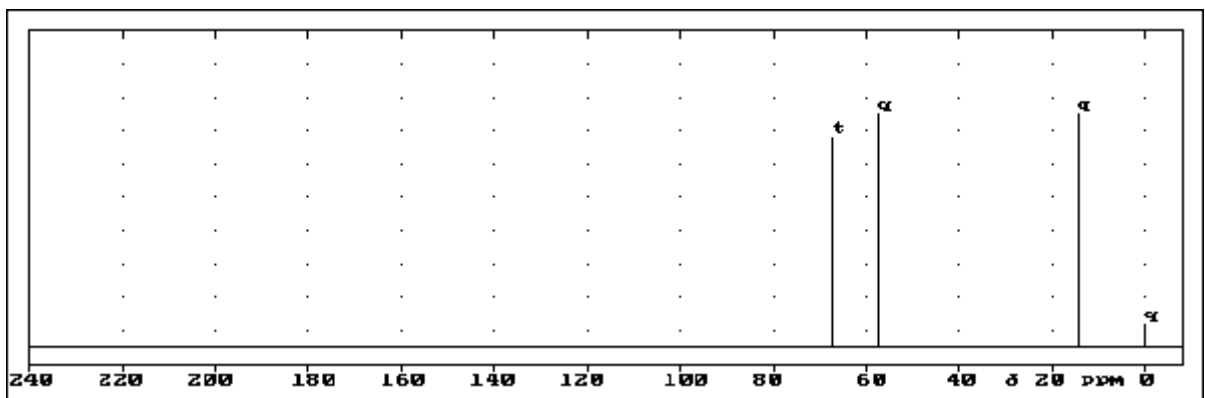
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



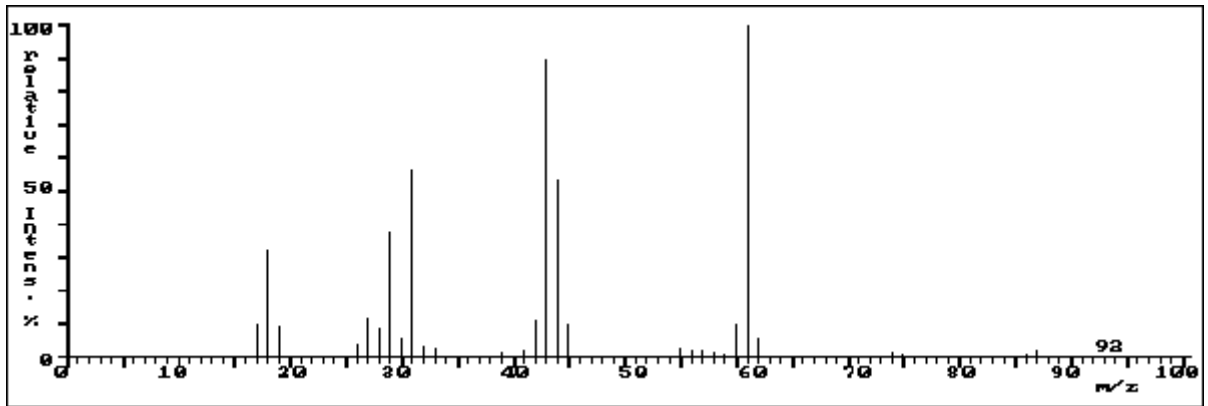
5. <sup>13</sup>C-NMR-Spektrum:



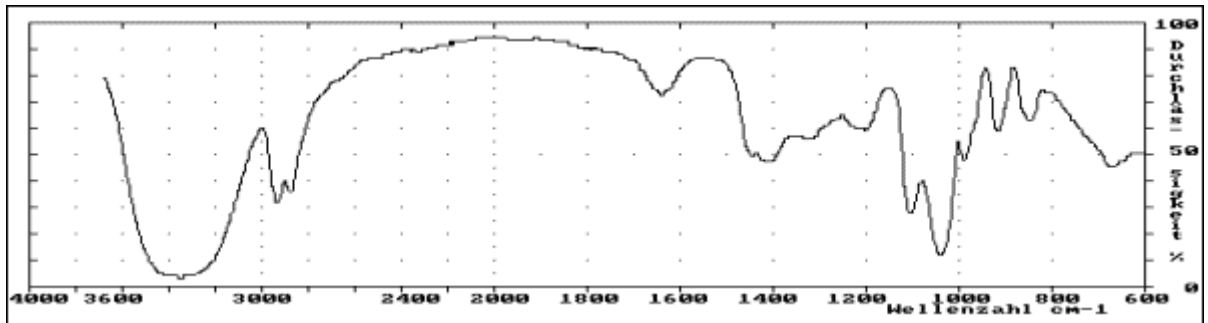
1. Quantitative Analyse:

C: 39.15 %	H: 08.76 %	O:				enthält: C, H, O
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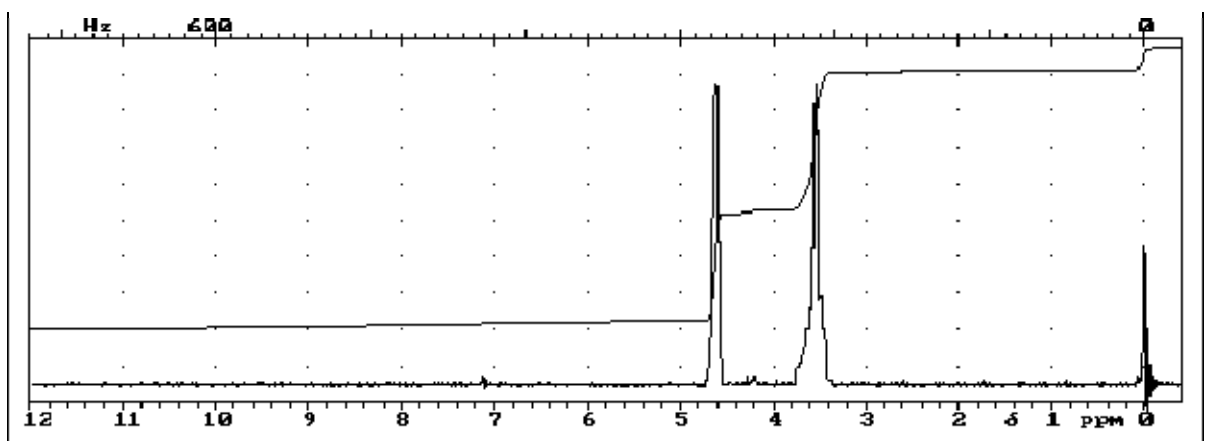
2. MS-Spektrum



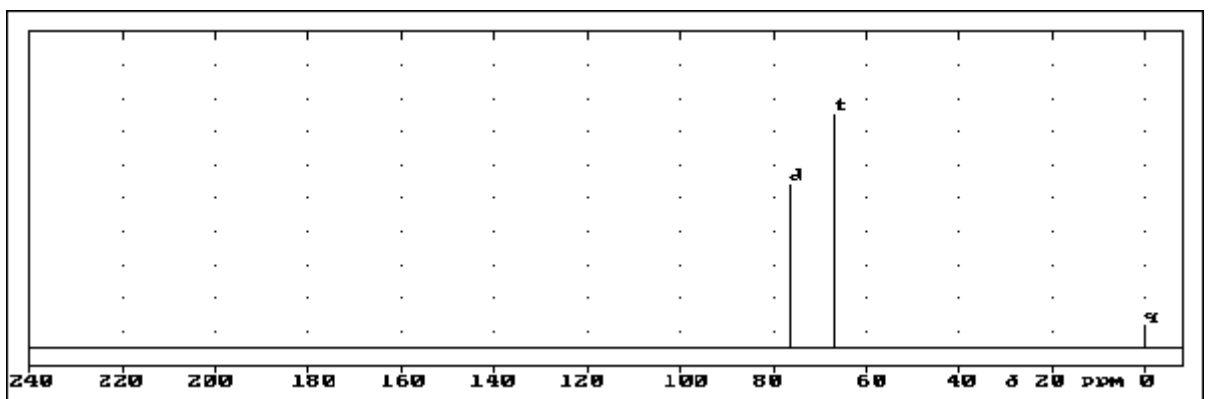
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



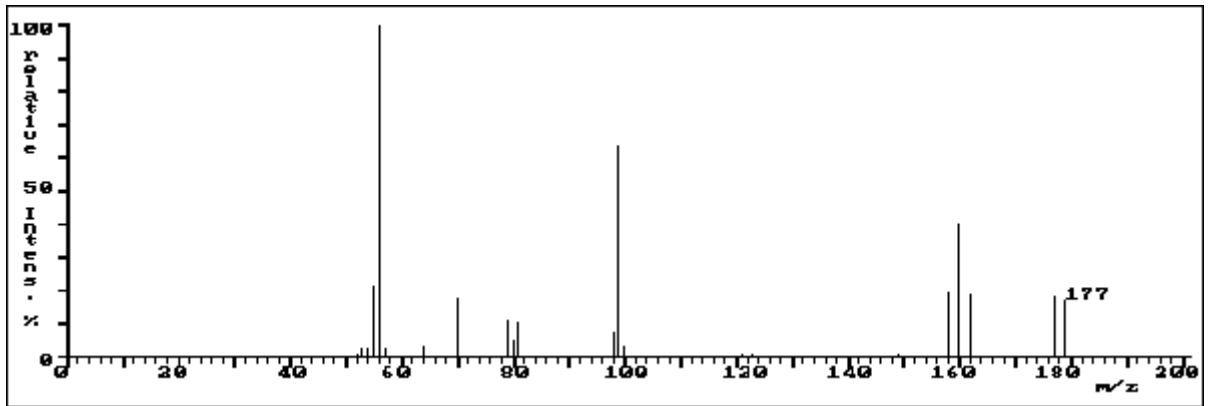
5. <sup>13</sup>C-NMR-Spektrum:



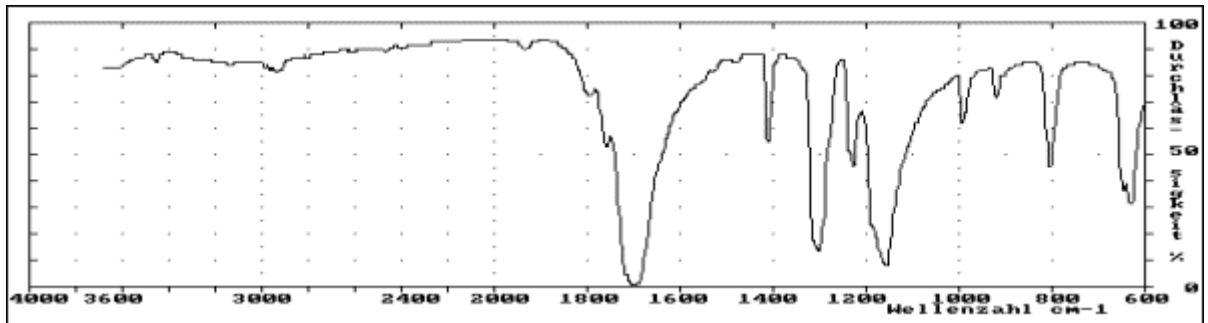
1. Quantitative Analyse:

C: 26.99 %	H: 02.27 %	O:				enth.: C, H, Br, N, O
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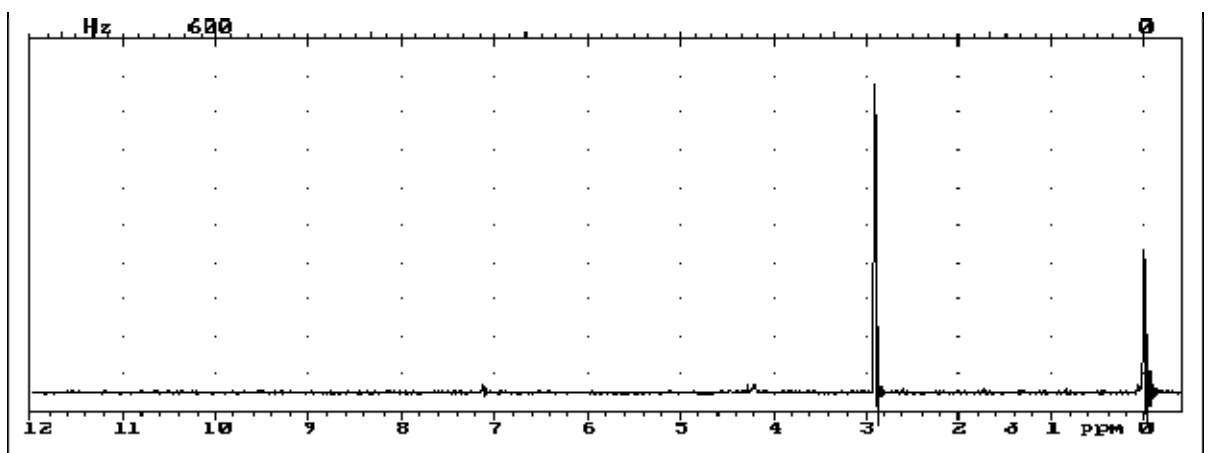
2. MS-Spektrum



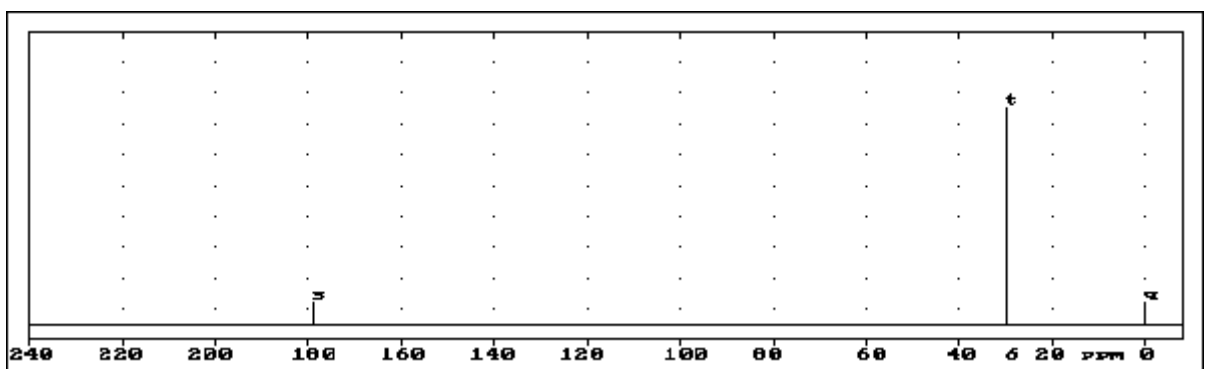
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



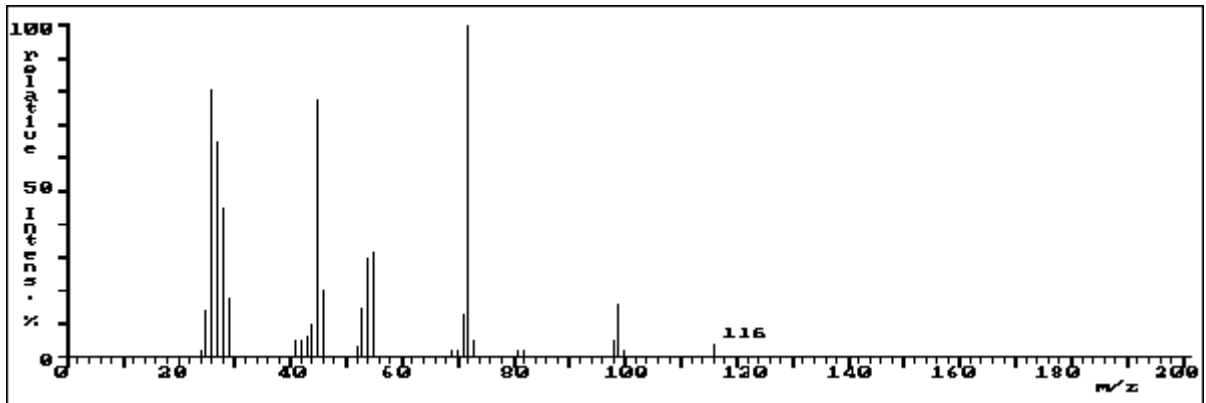
5. <sup>13</sup>C-NMR-Spektrum:



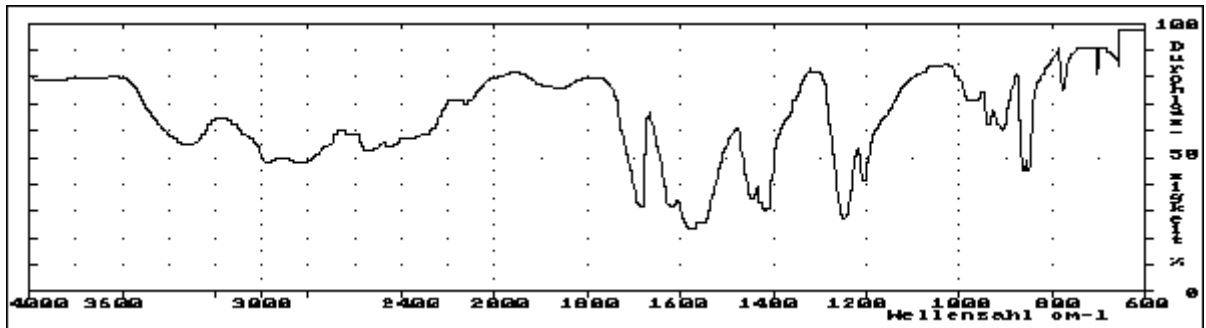
1. Quantitative Analyse:

C: 41.38 %	H: 03.45 %	O:				enthält: C, H, O
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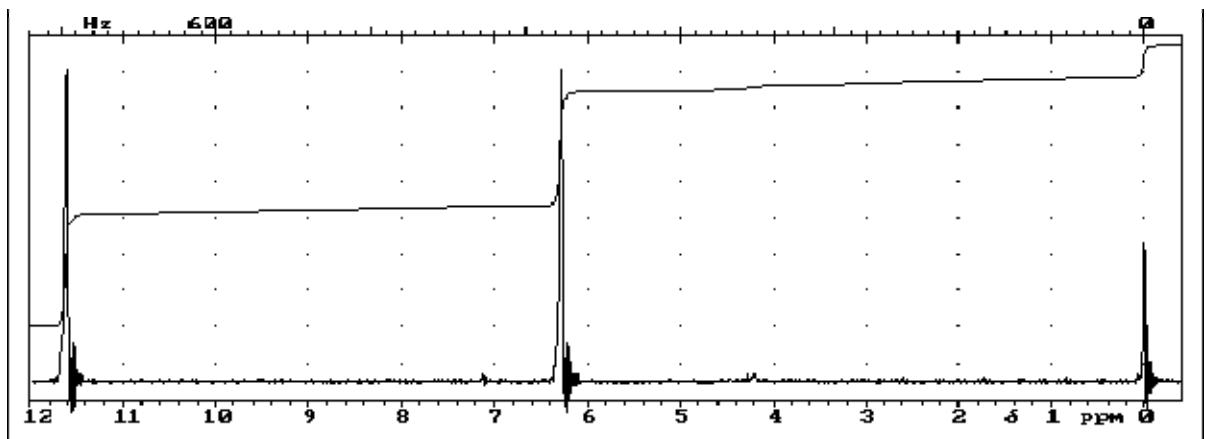
2. MS-Spektrum



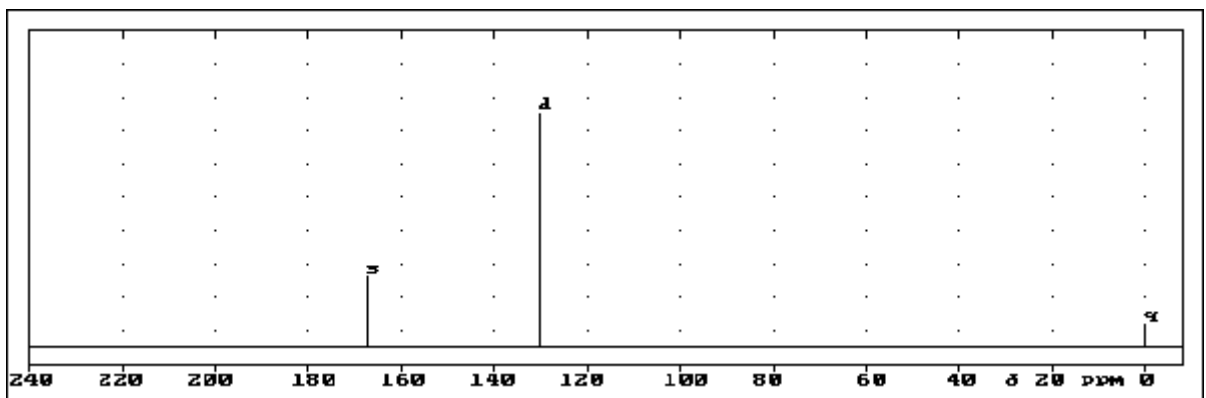
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



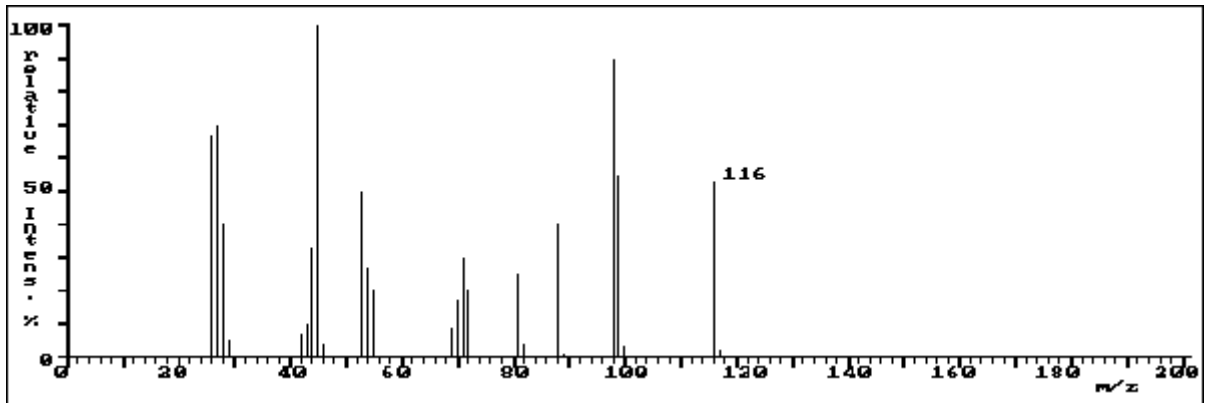
5. <sup>13</sup>C-NMR-Spektrum:



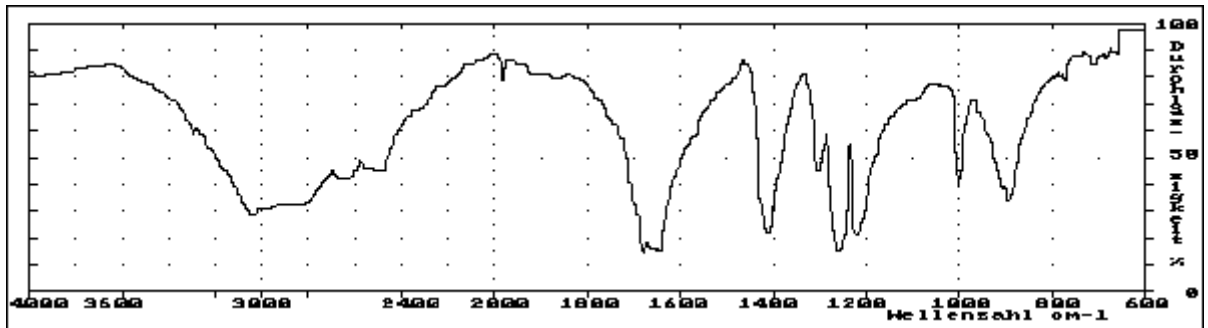
1. Quantitative Analyse:

C: 41.38 %	H: 03.45 %	O:				enthält: C, H, O
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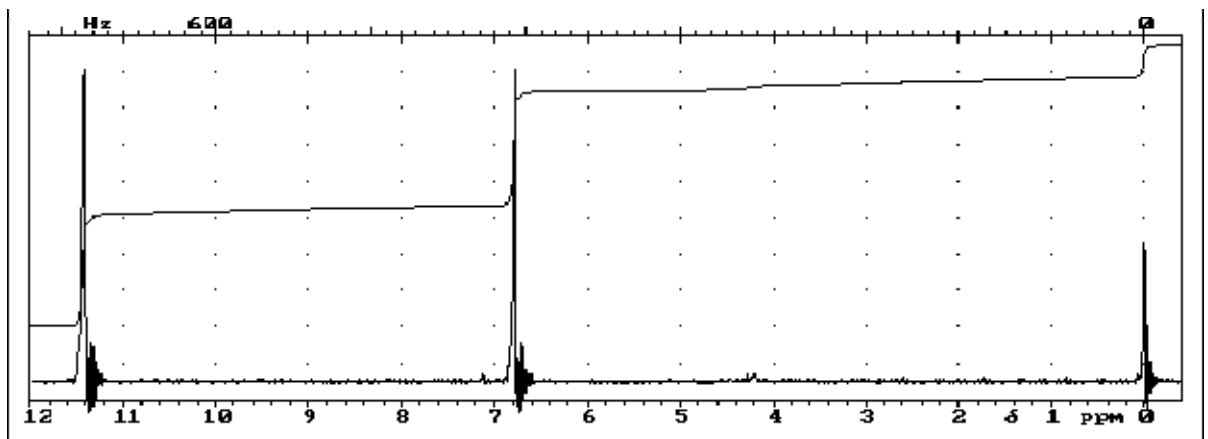
2. MS-Spektrum



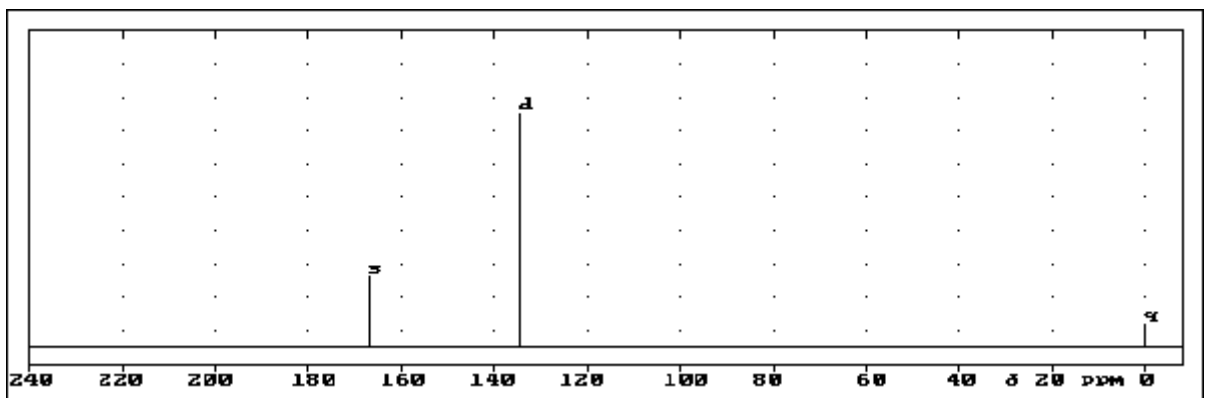
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



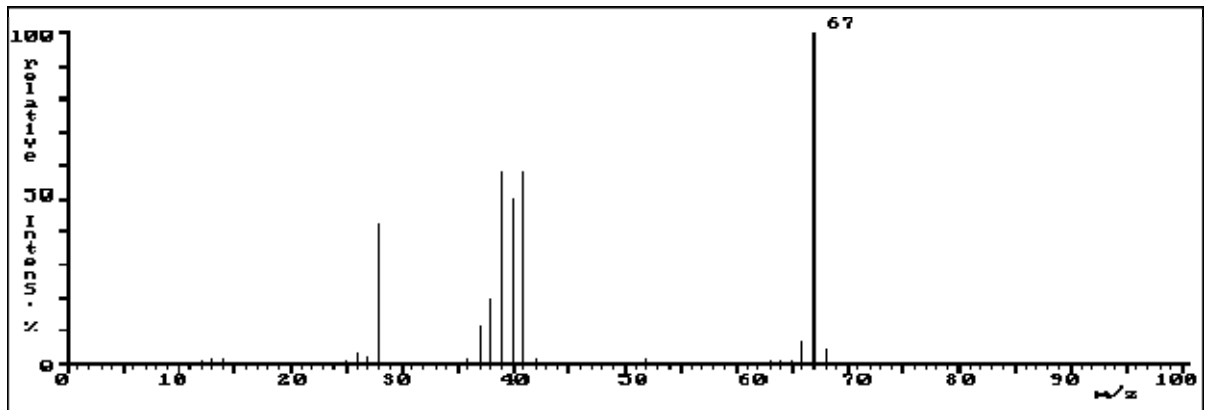
5. <sup>13</sup>C-NMR-Spektrum:



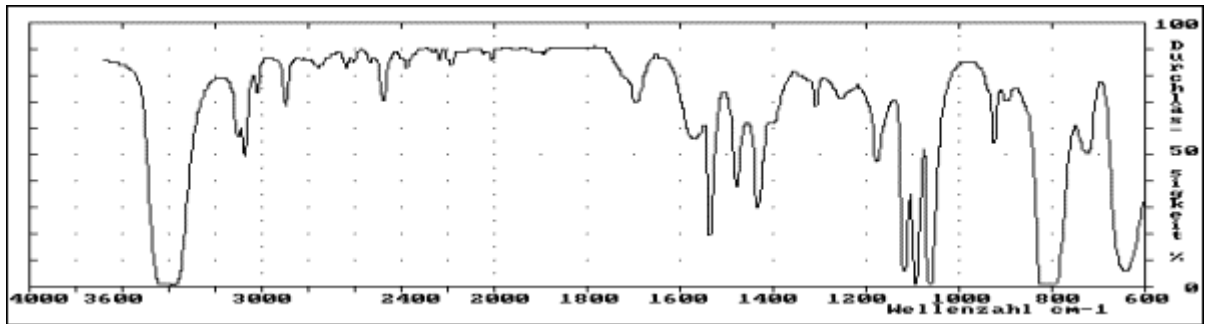
1. Quantitative Analyse:

C: 71.64 %	H: 07.46 %	O:				enthält: C, H, N
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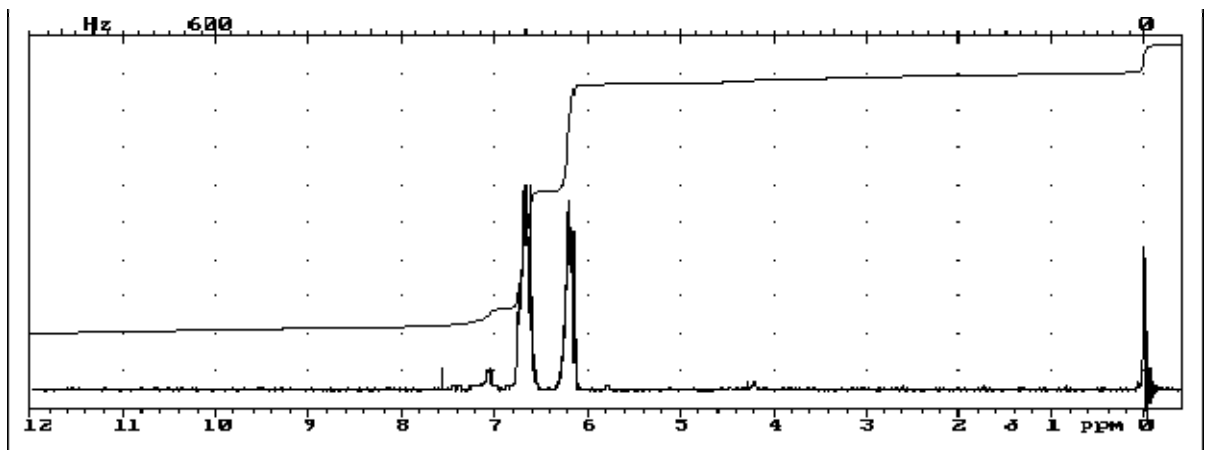
2. MS-Spektrum



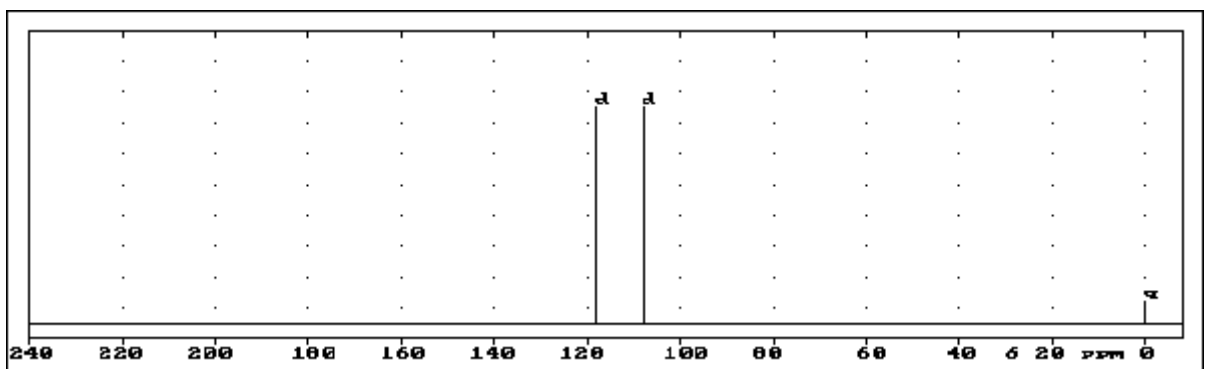
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

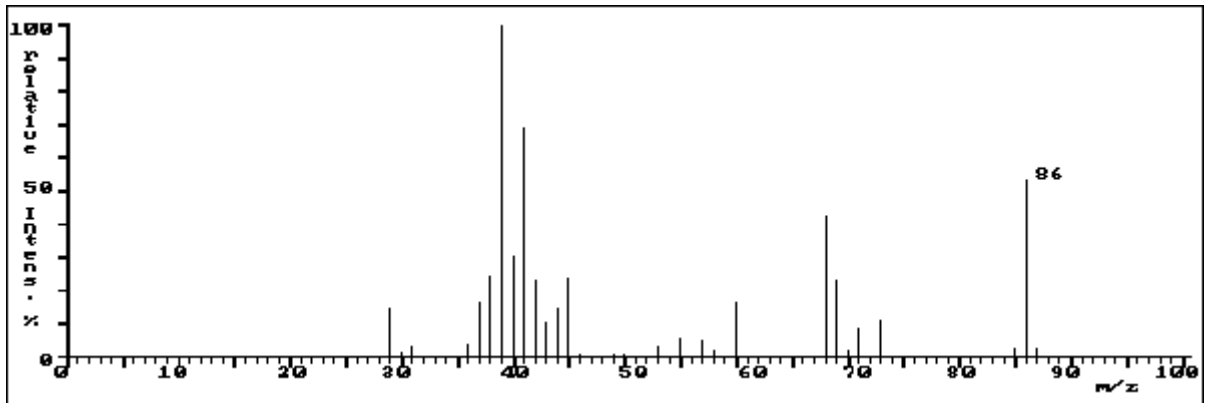




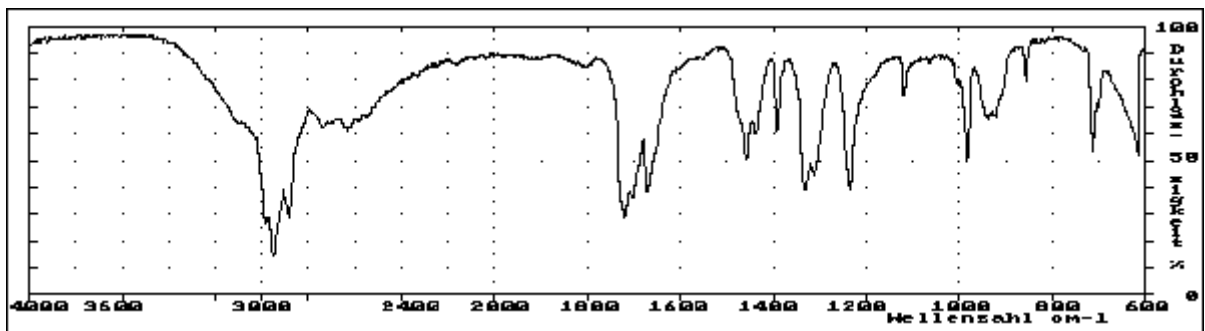
1. Quantitative Analyse:

C: 55.81 %	H: 07.02 %	O:				enthält: C, H, O
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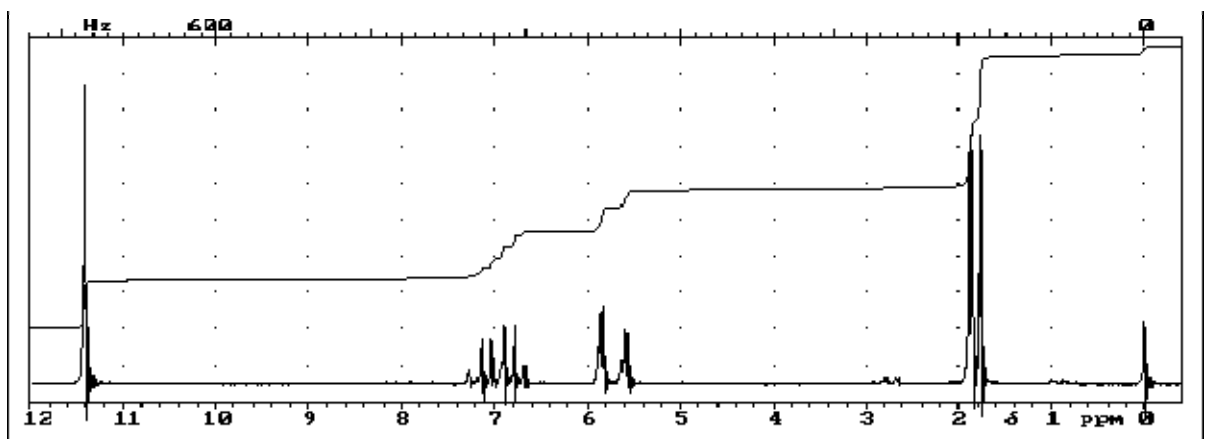
2. MS-Spektrum



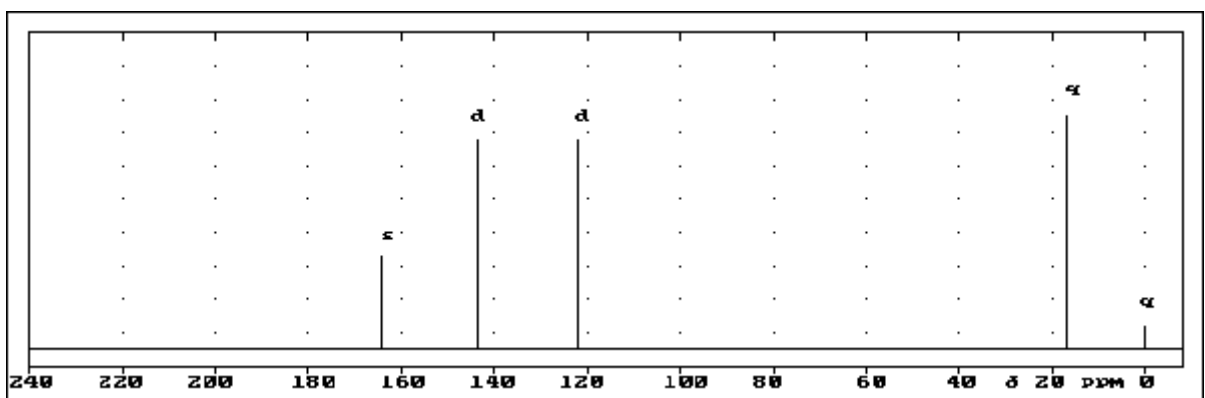
3. IR - Spektrum

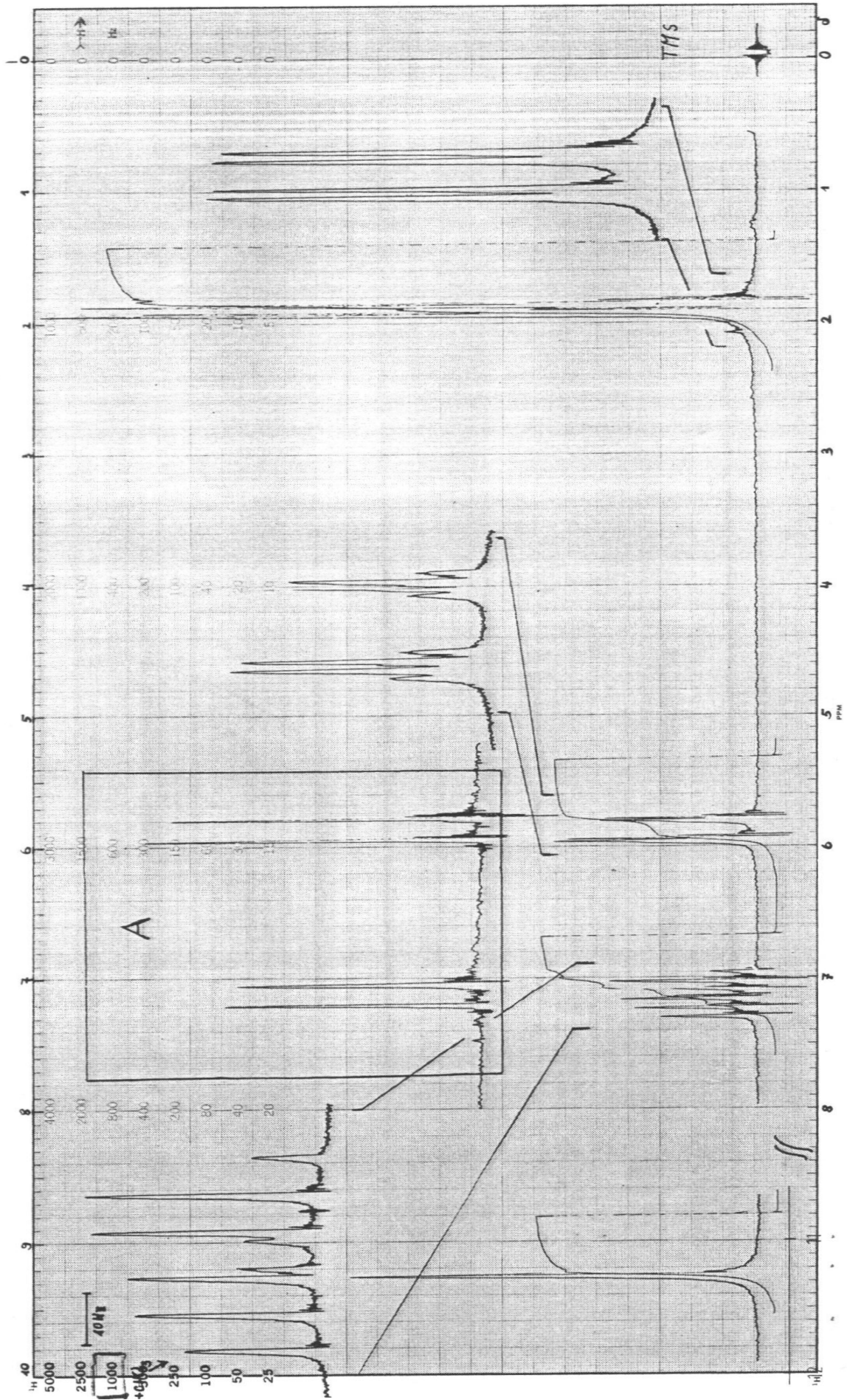


4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

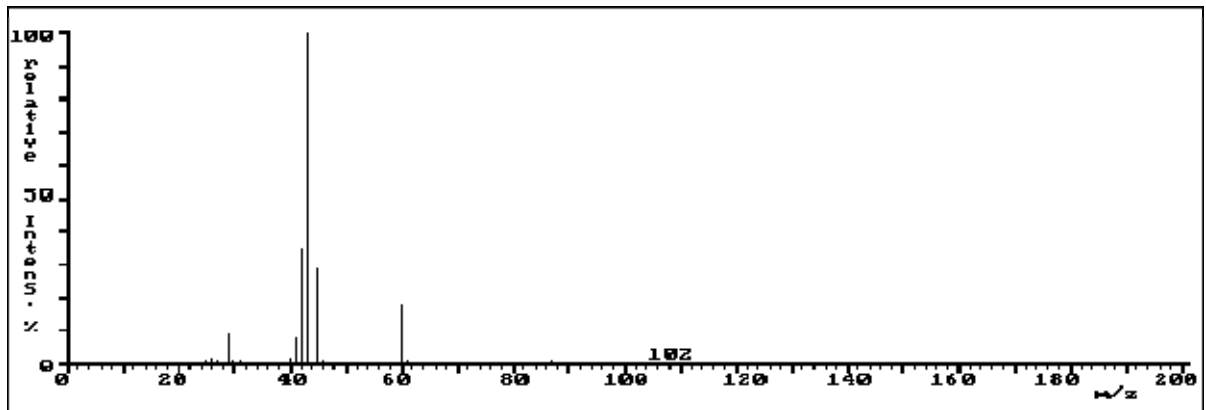




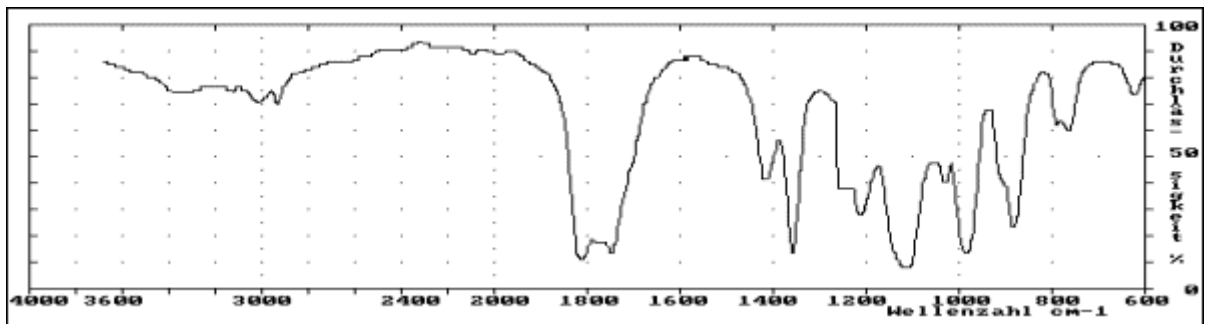
1. Quantitative Analyse:

C: 47.06 %	H: 05.92 %	O:				enthält: C, H, O
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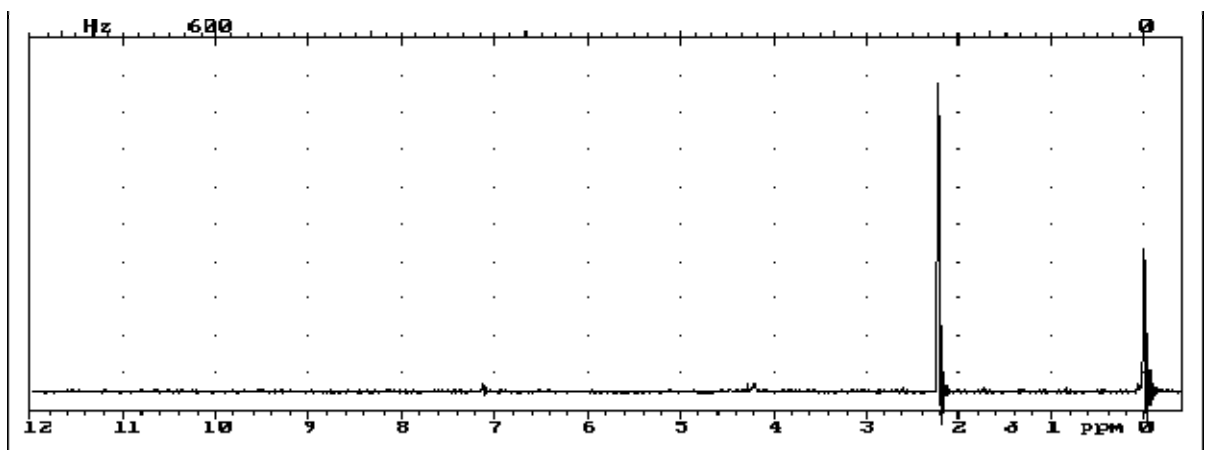
2. MS-Spektrum



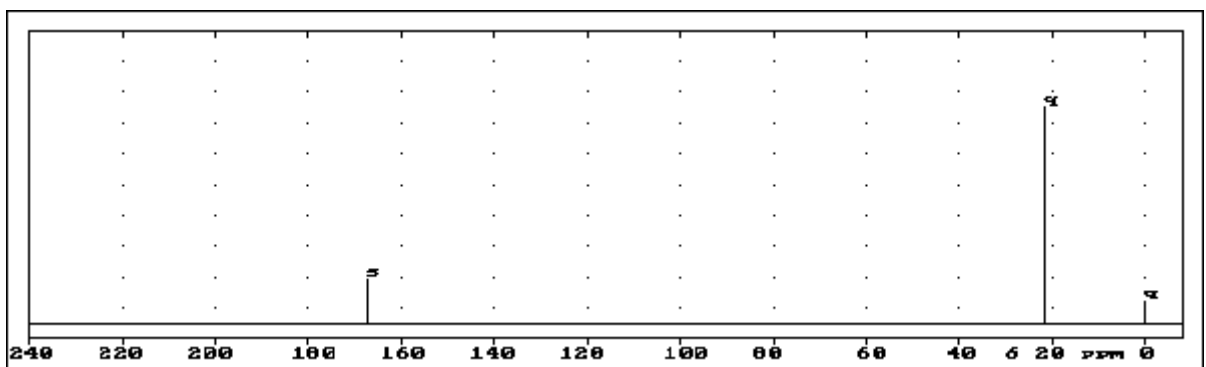
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



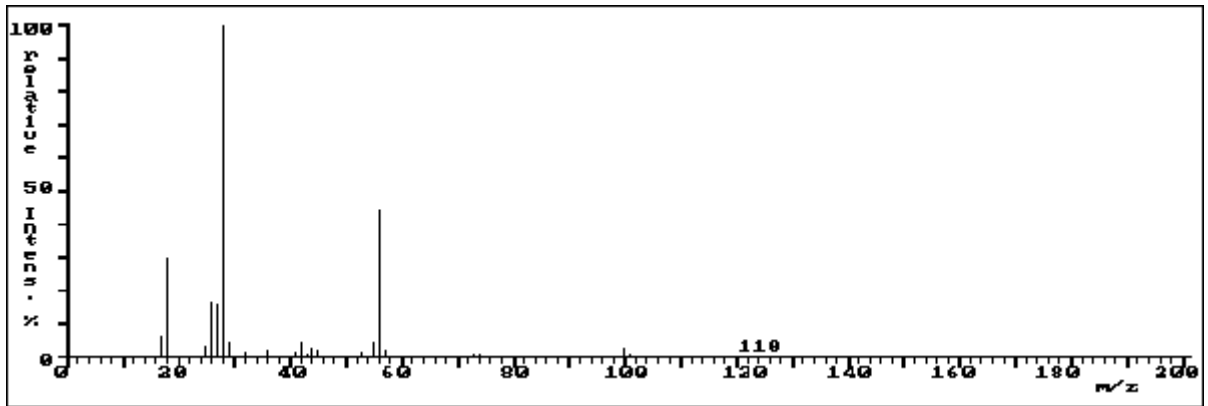
5. <sup>13</sup>C-NMR-Spektrum:



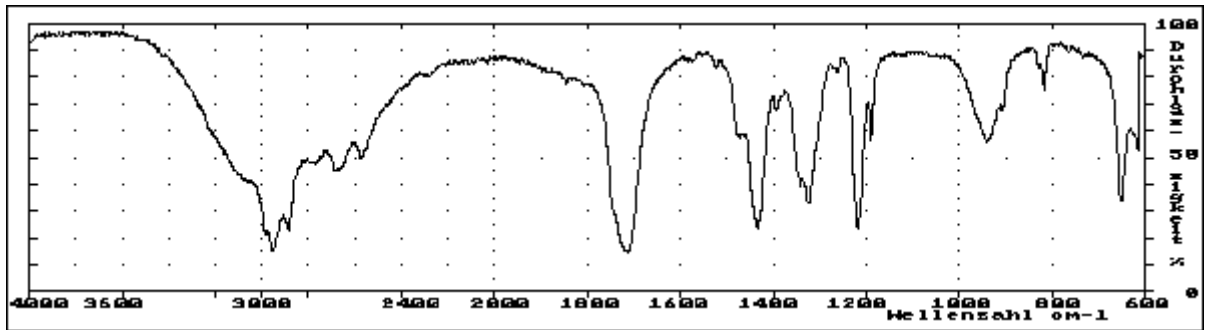
1. Quantitative Analyse:

C: 40.68 %	H: 05.12 %	O:				enthält: C, H, O
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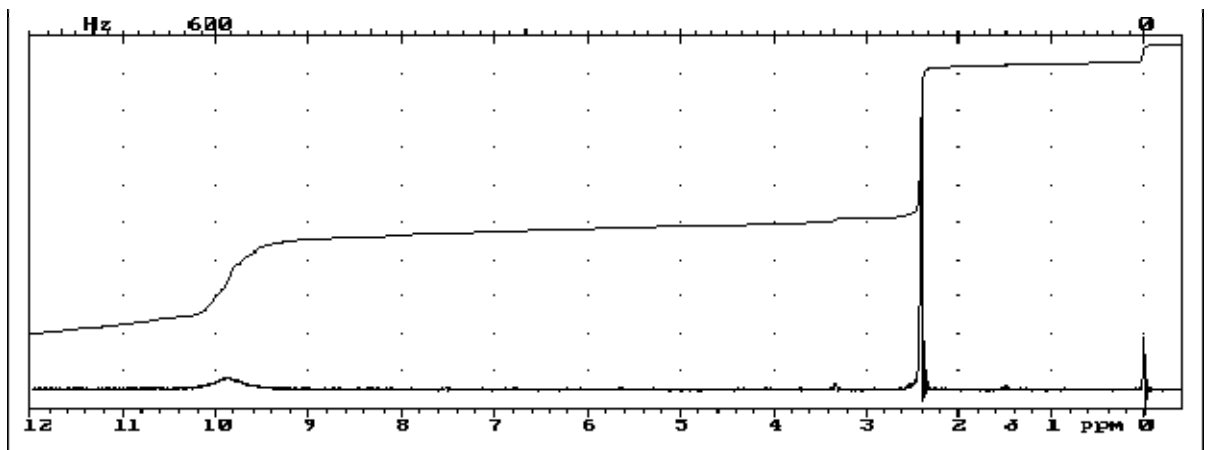
2. MS-Spektrum



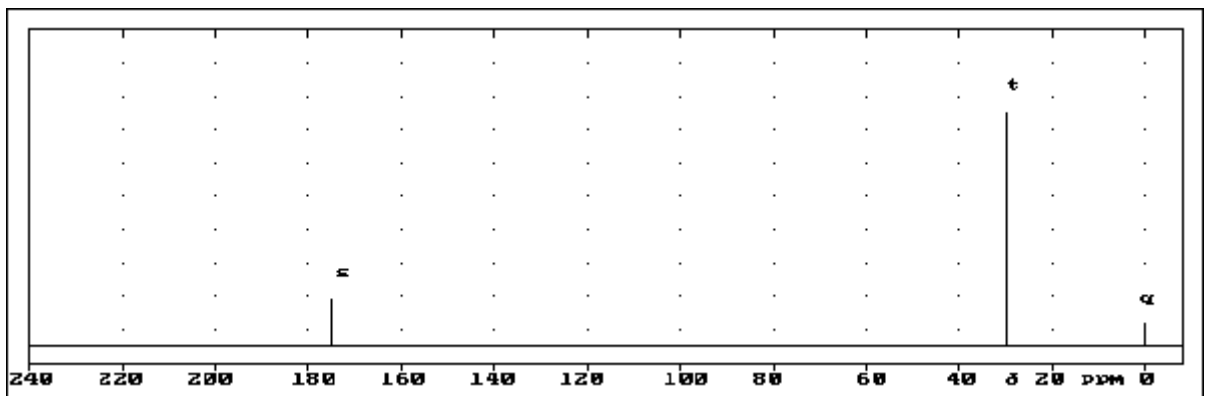
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



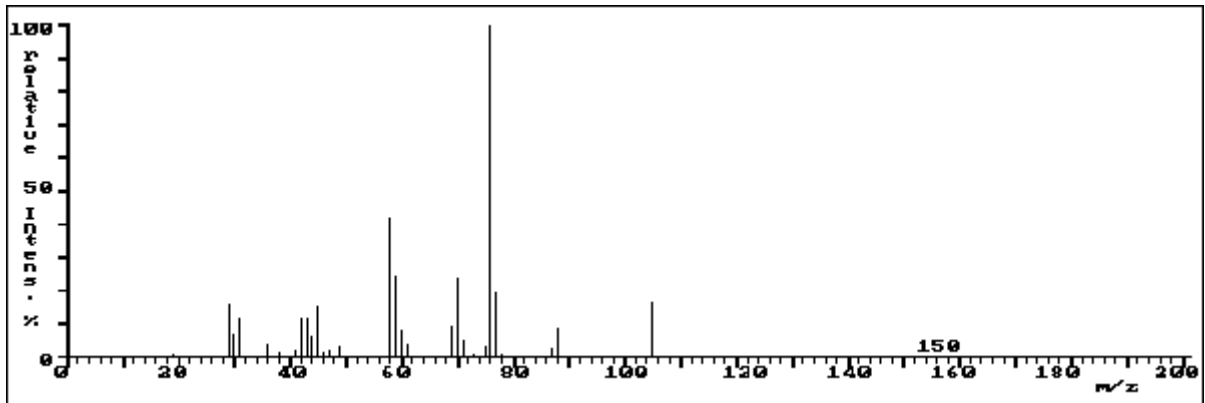
5. <sup>13</sup>C-NMR-Spektrum:



1. Quantitative Analyse:

C: 32.01 %	H: 04.03 %	O:				enthält: C, H, O
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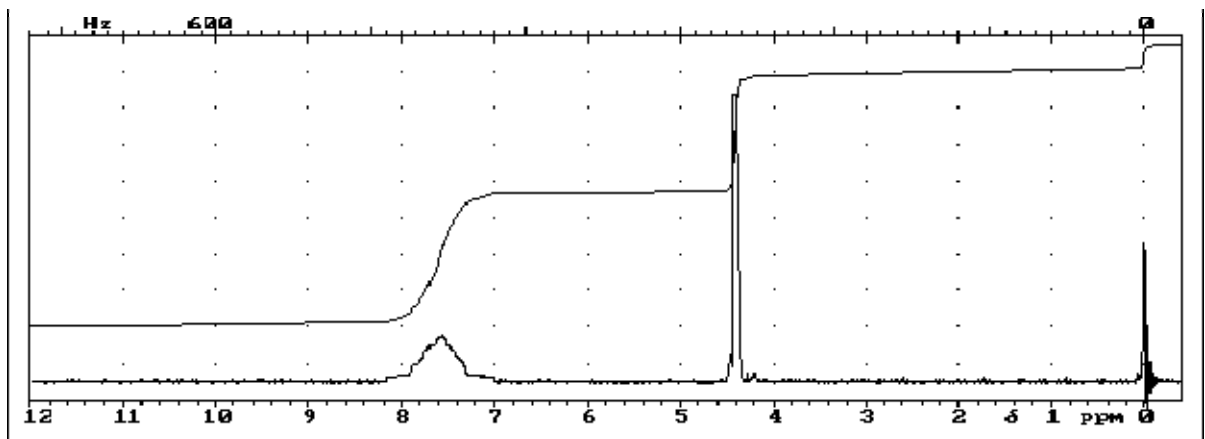
2. MS-Spektrum



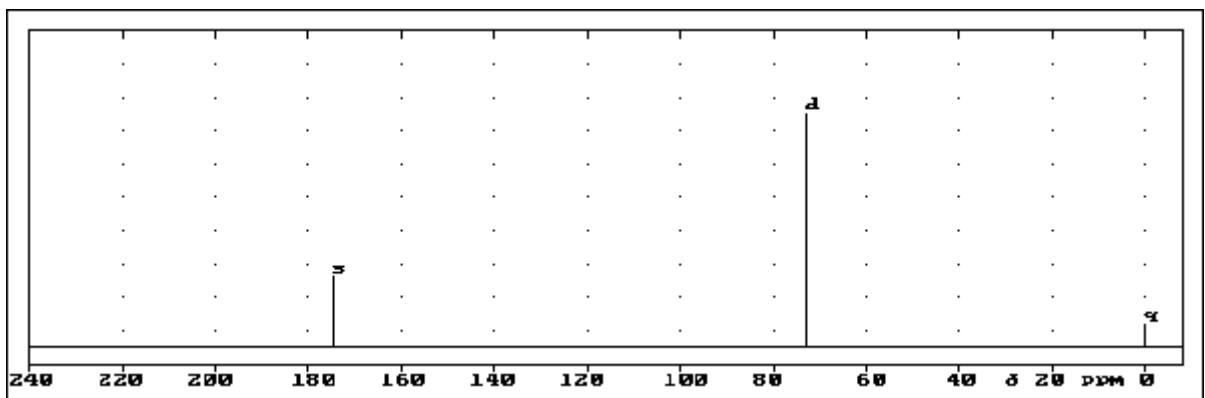
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

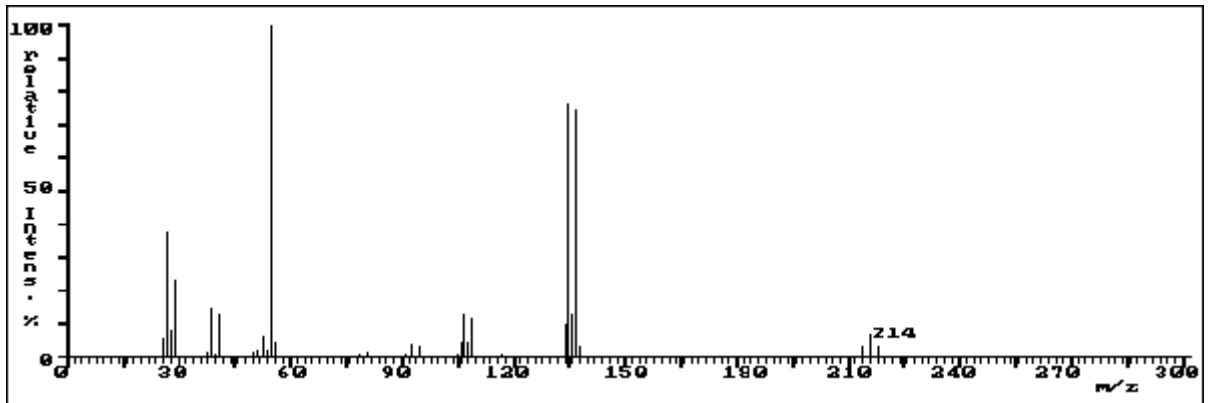




1. Quantitative Analyse:

C: 25.25 %	H: 03.73 %	O:				enthält: C, H, Br
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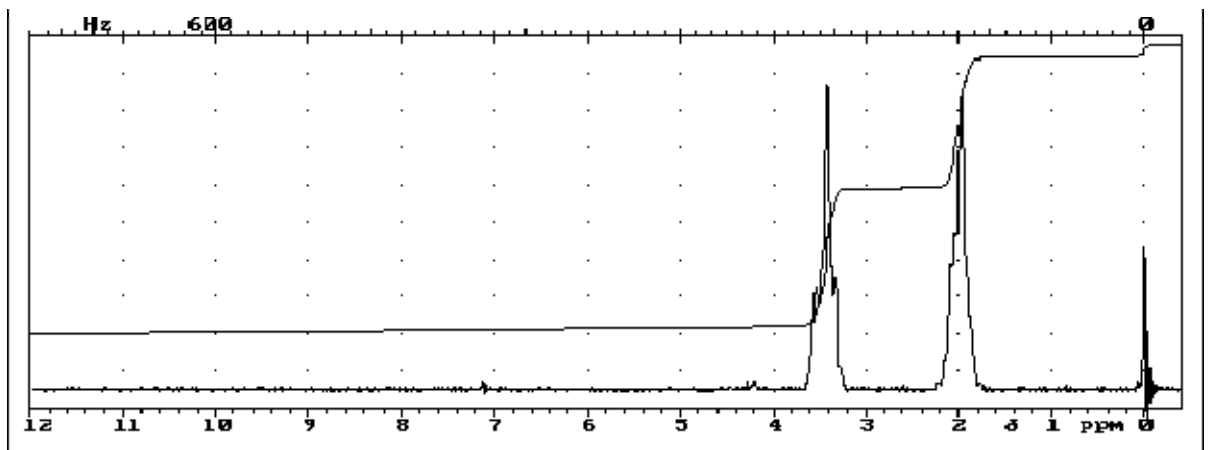
2. MS-Spektrum



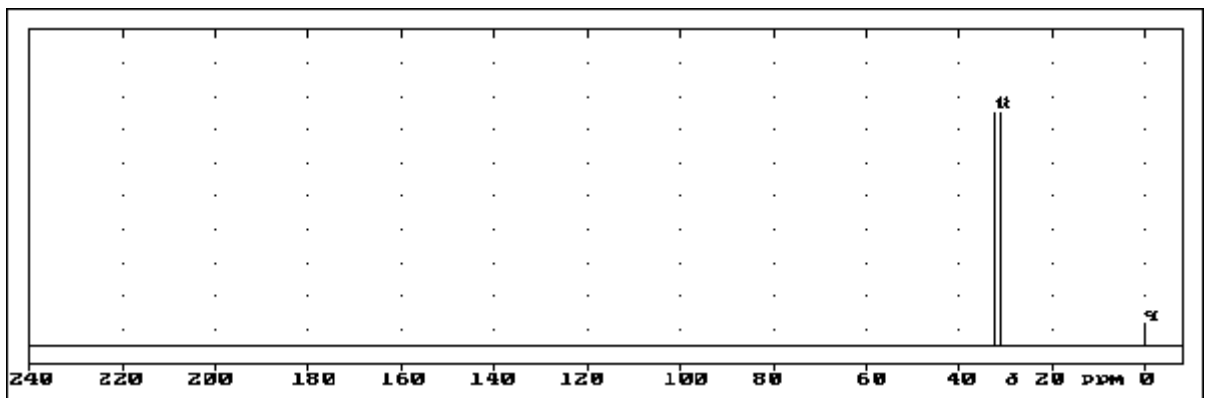
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



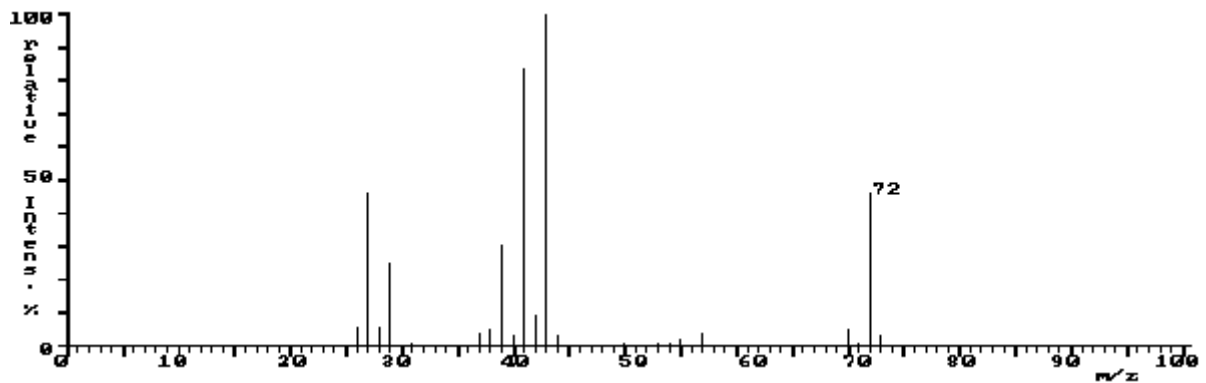
5. <sup>13</sup>C-NMR-Spektrum:



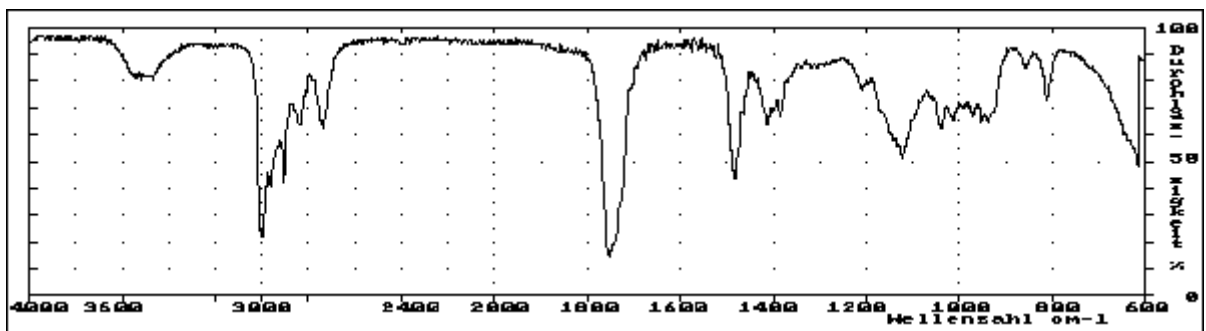
1. Quantitative Analyse:

C: 66.63 %	H: 11.18 %	O:				enthält: C, H, O
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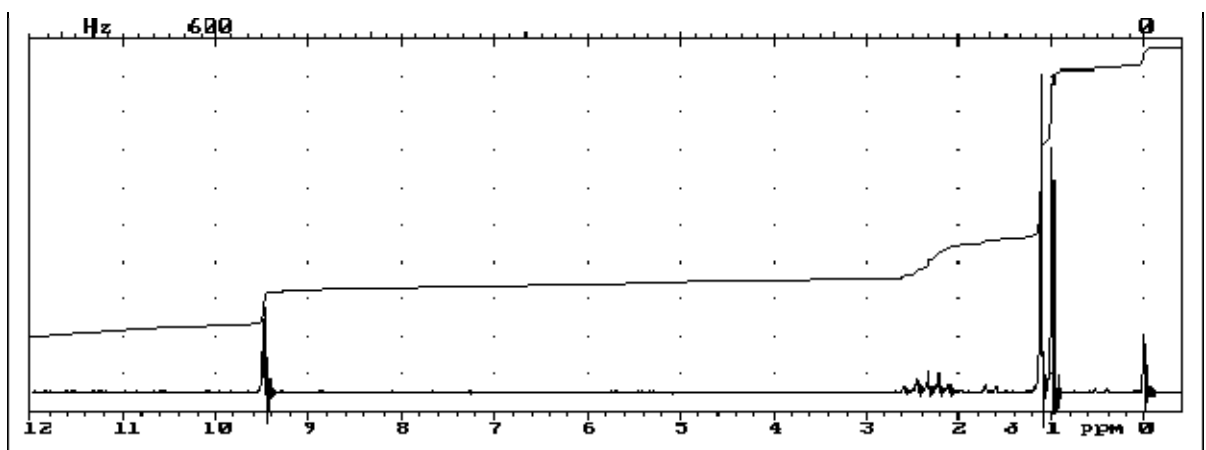
2. MS-Spektrum



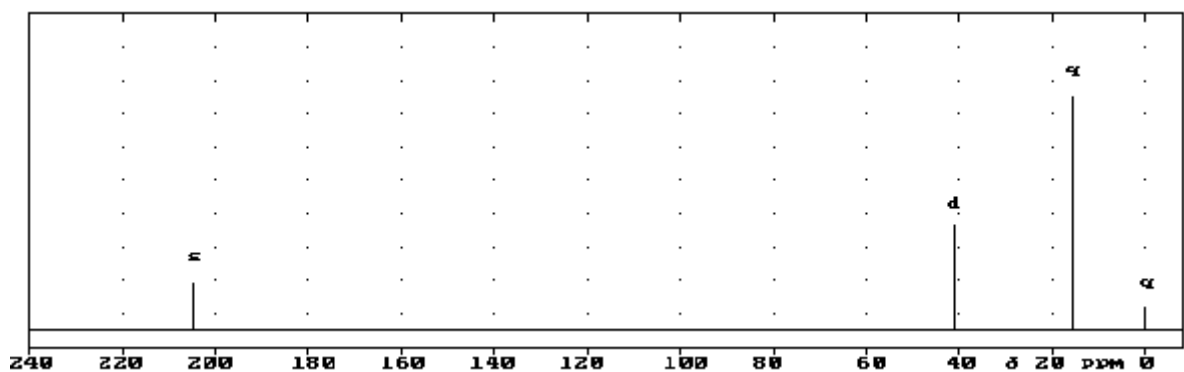
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



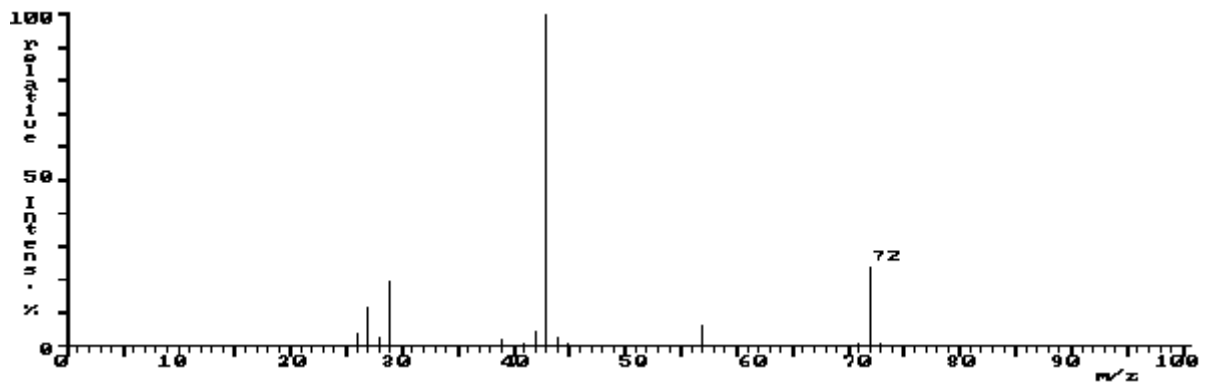
5. <sup>13</sup>C-NMR-Spektrum:



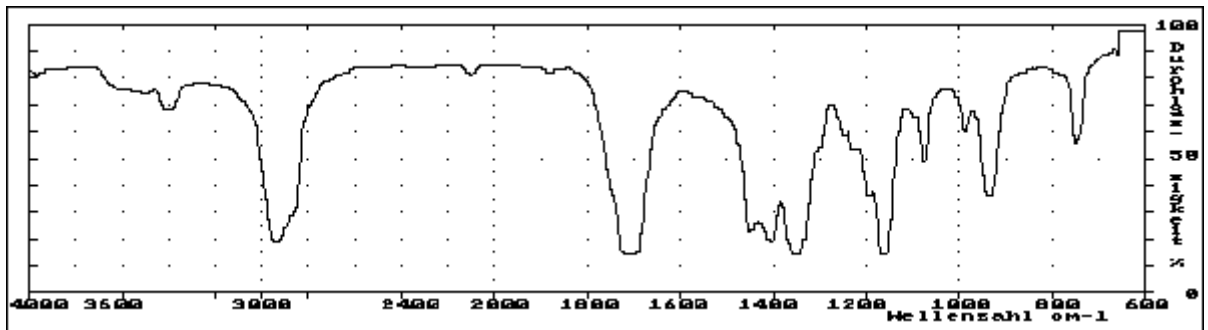
1. Quantitative Analyse:

C: 66.63 %	H: 11.18 %	O:				enthält: C, H, O
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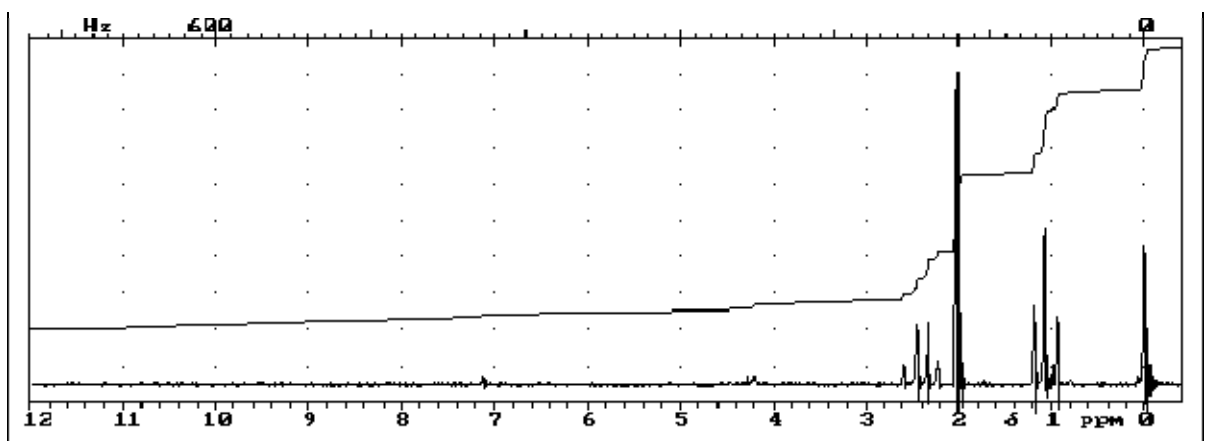
2. MS-Spektrum



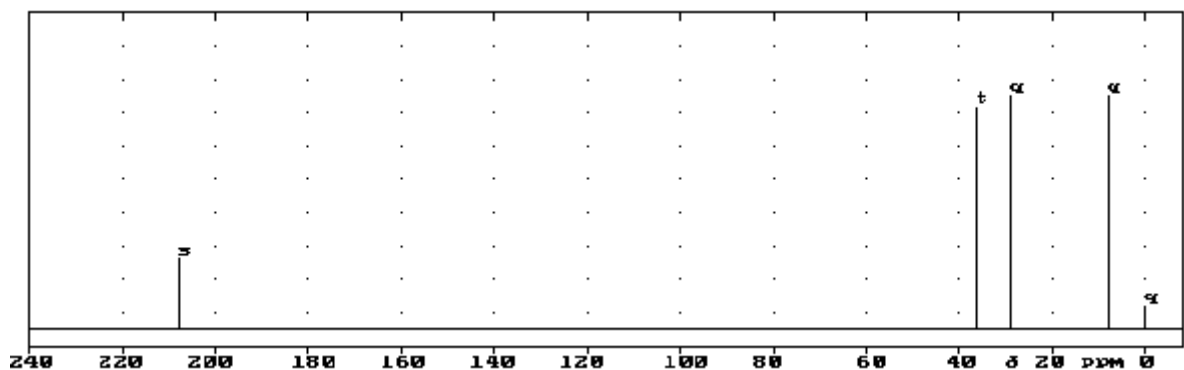
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

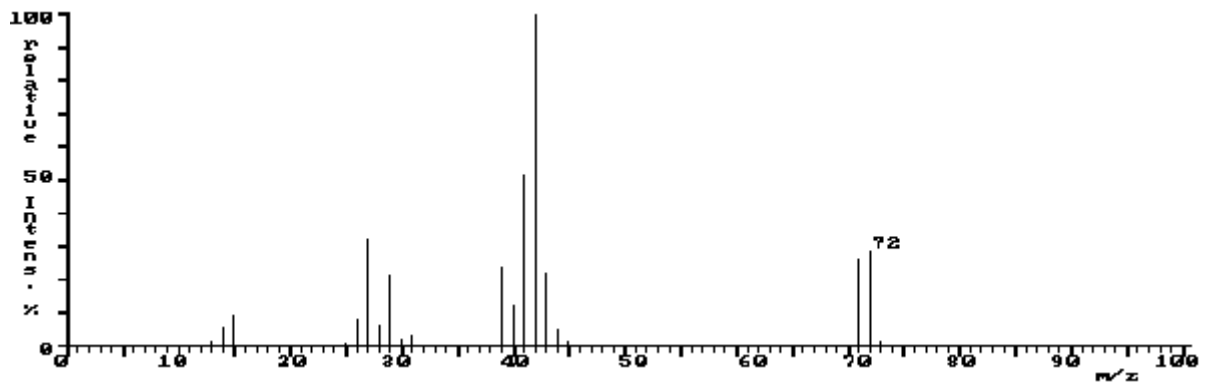




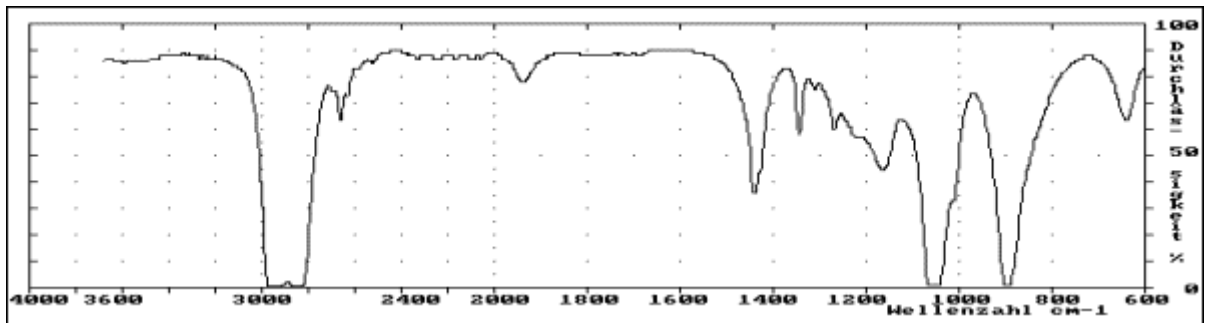
1. Quantitative Analyse:

C: 66.63 %	H: 11.18 %	O:				enthält: C, H, O
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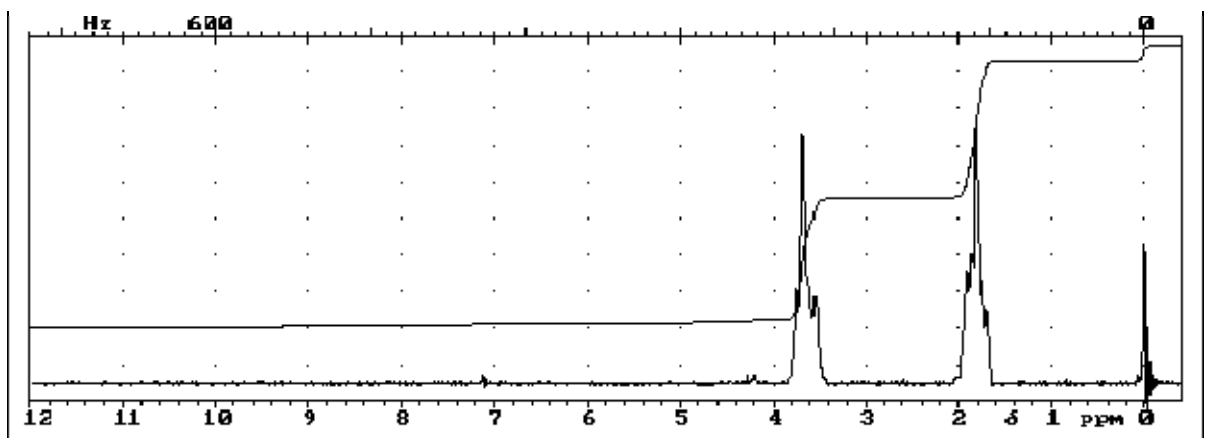
2. MS-Spektrum



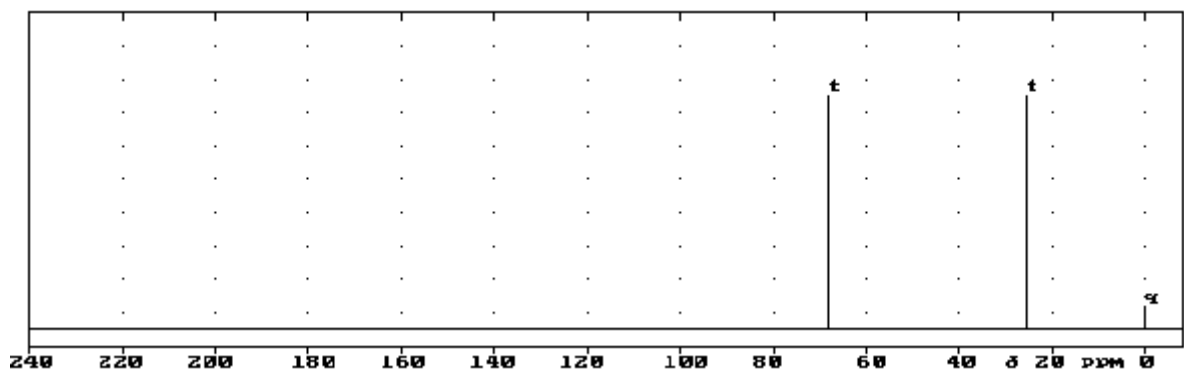
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



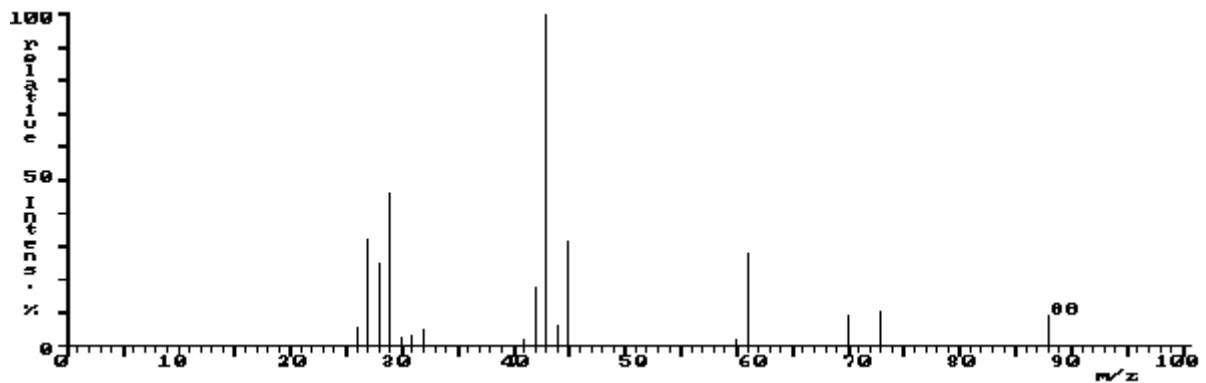
5. <sup>13</sup>C-NMR-Spektrum:



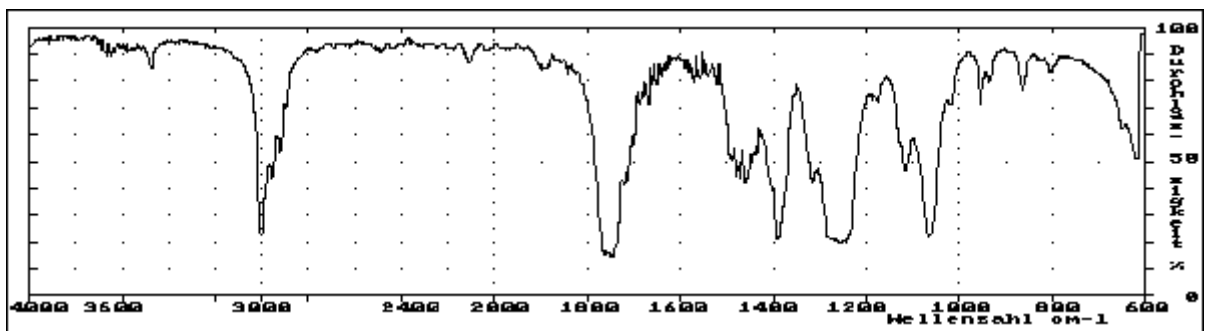
1. Quantitative Analyse:

C: 54.53 %	H: 09.15 %	O:				enthält: C, H, O
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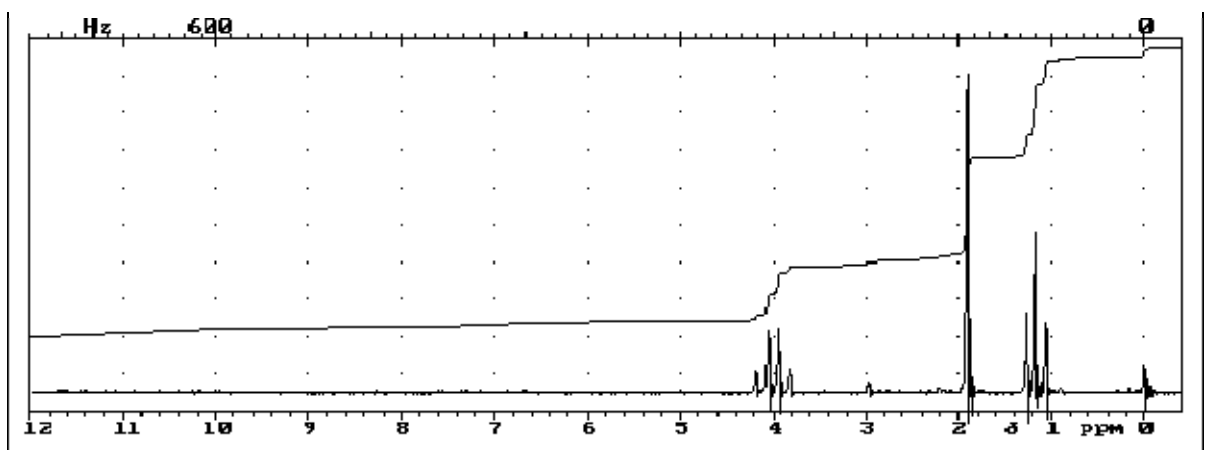
2. MS-Spektrum



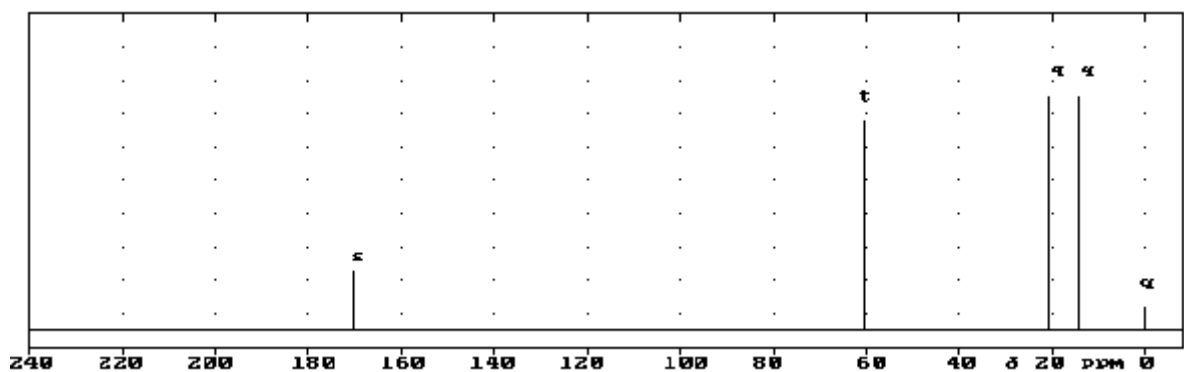
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



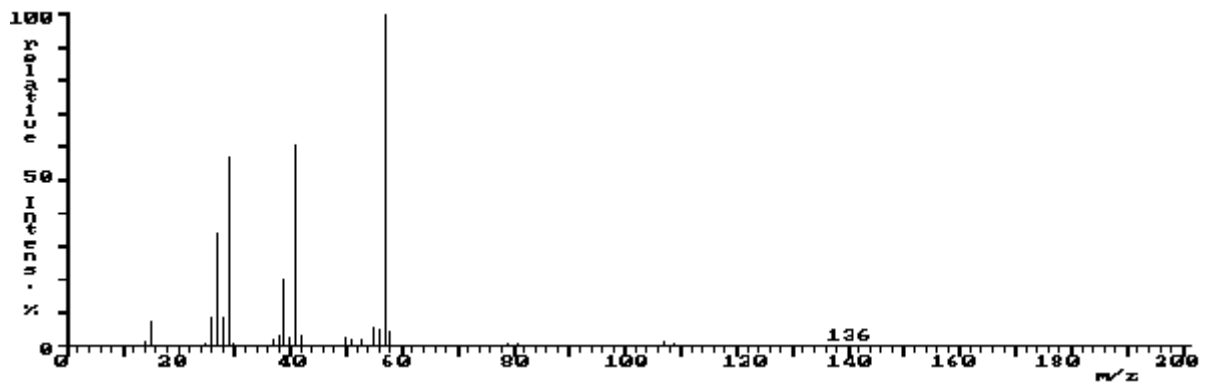
5. <sup>13</sup>C-NMR-Spektrum:



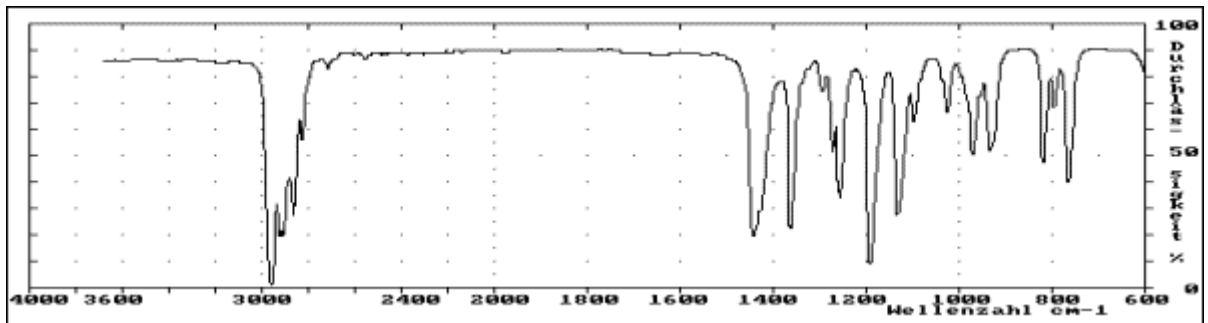
1. Quantitative Analyse:

C: 35.06 %	H: 06.62 %	O:				enthält: C, H, Br
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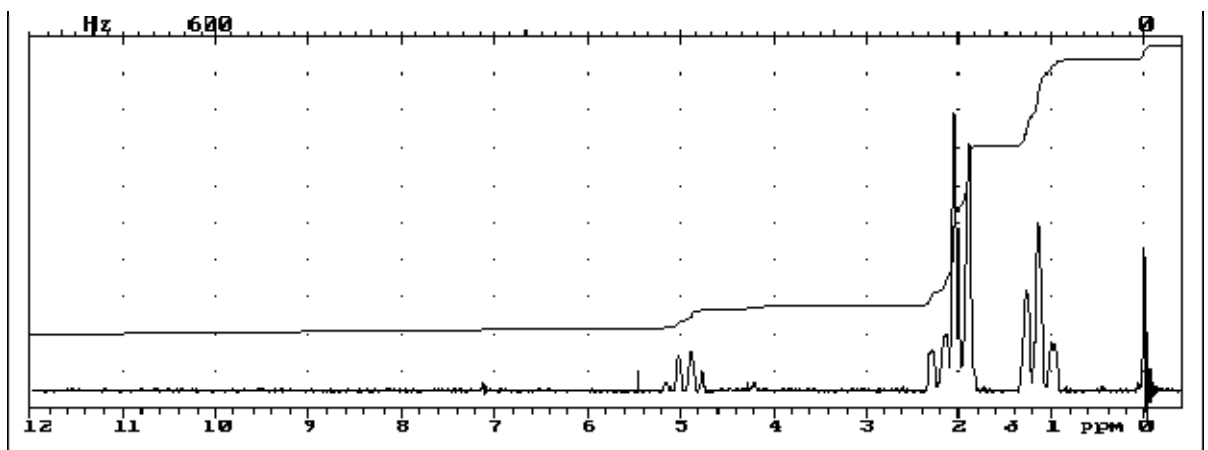
2. MS-Spektrum



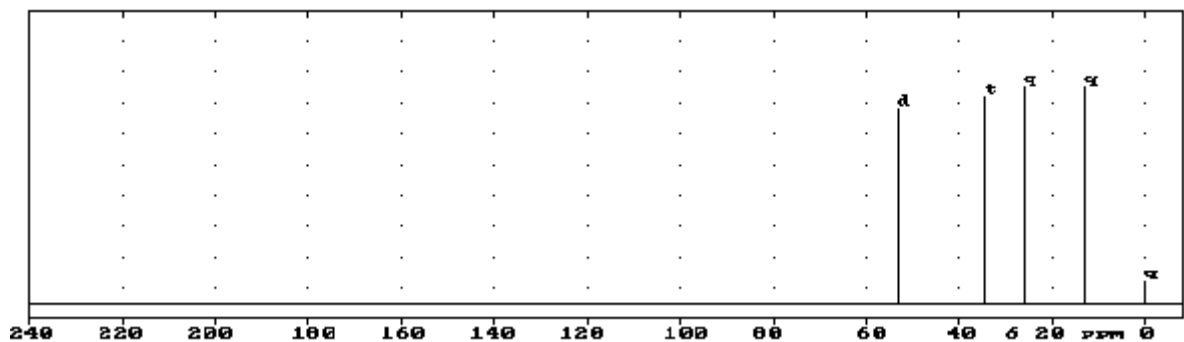
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



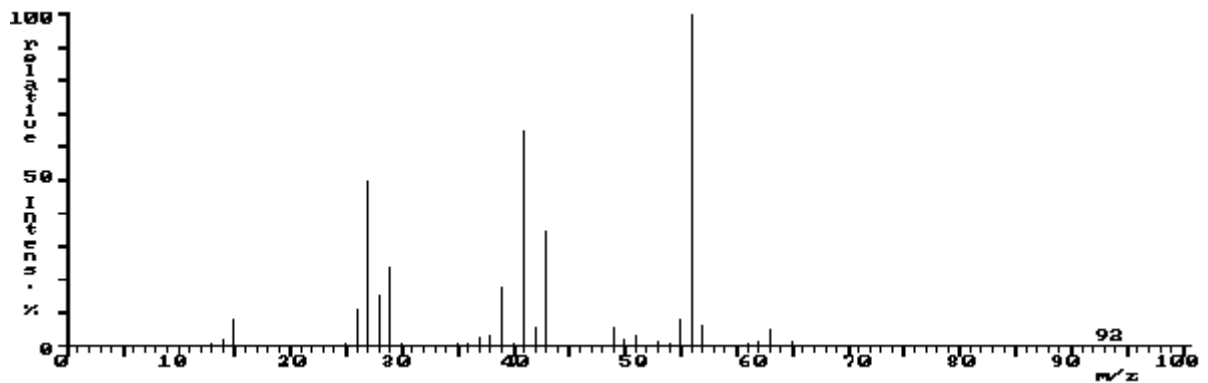
5. <sup>13</sup>C-NMR-Spektrum:



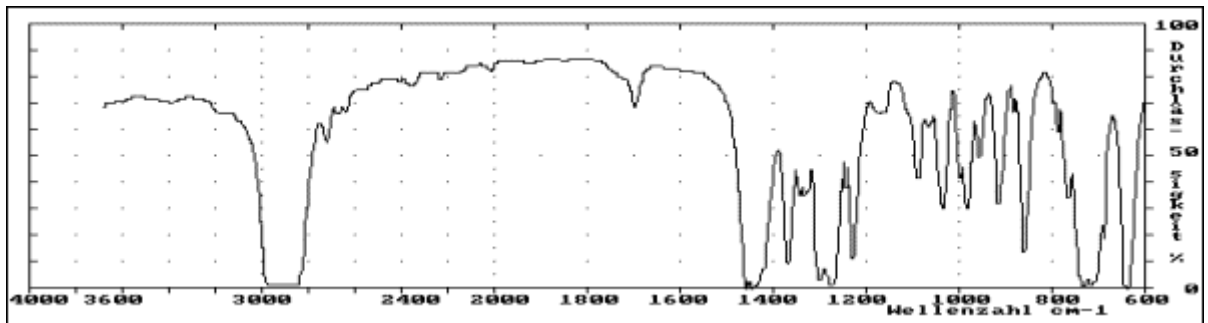
1. Quantitative Analyse:

C: 51.90 %	H: 09.80 %	O:				enthält: C, H, Cl
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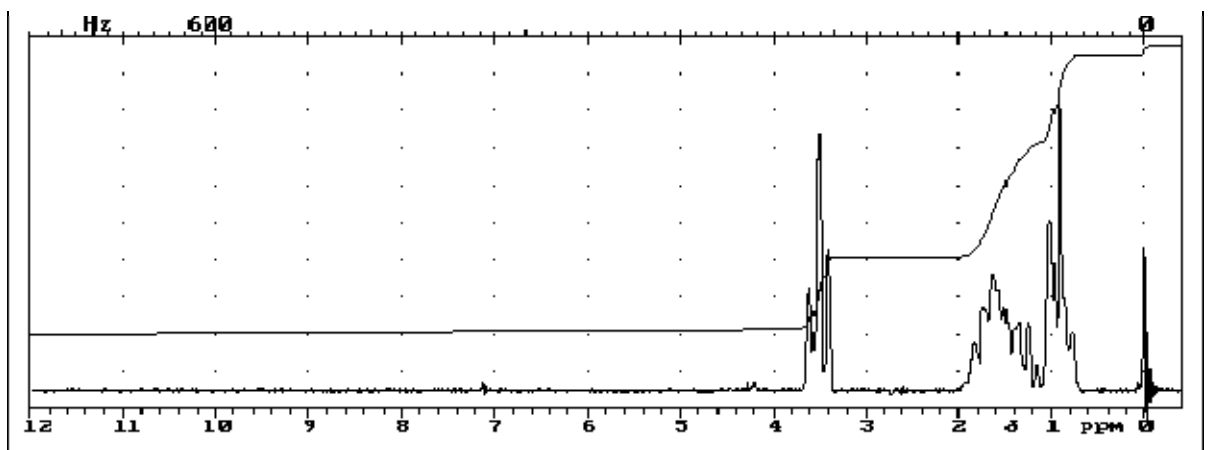
2. MS-Spektrum



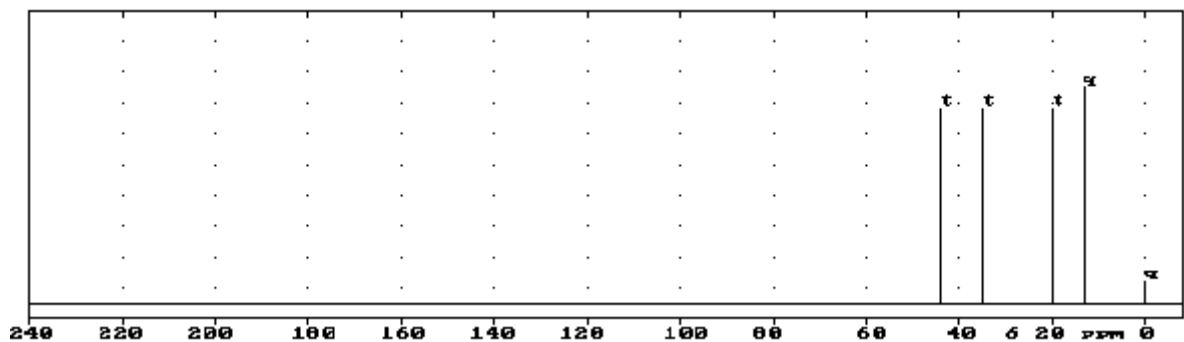
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



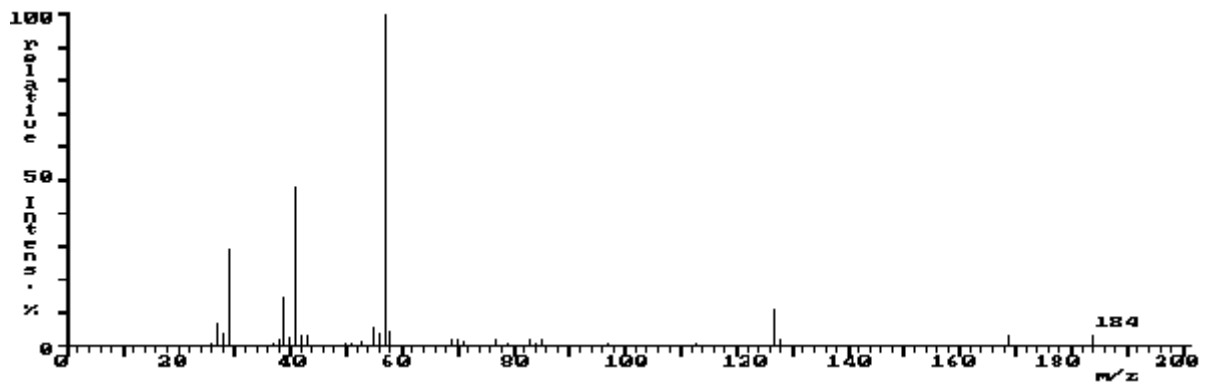
5. <sup>13</sup>C-NMR-Spektrum:



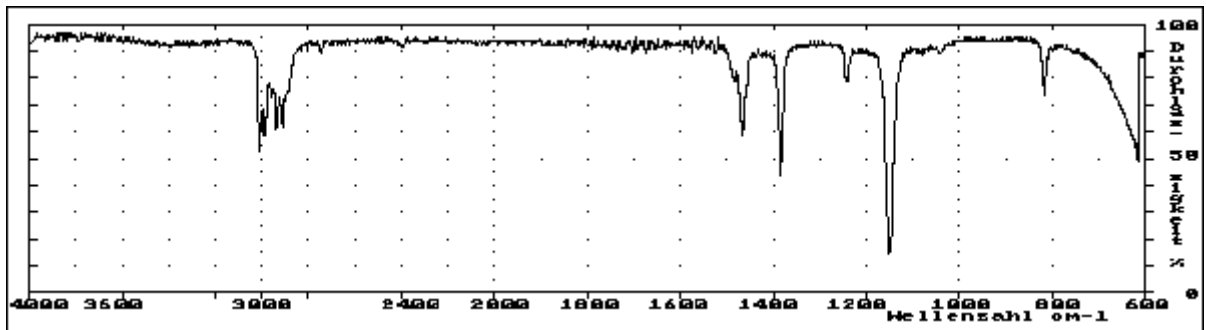
1. Quantitative Analyse:

C: 26.11 %	H: 04.93 %	O:				enthält: C, H, I
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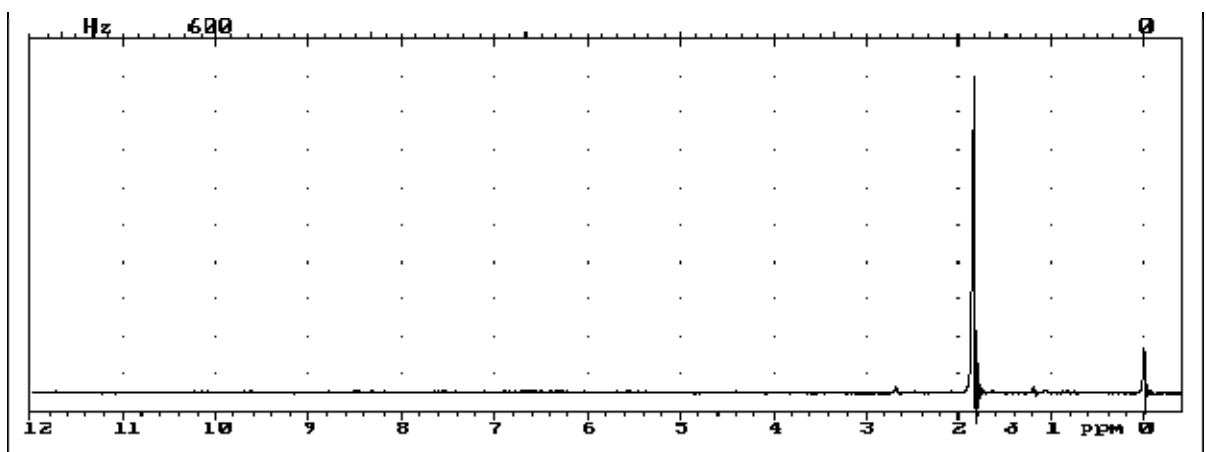
2. MS-Spektrum



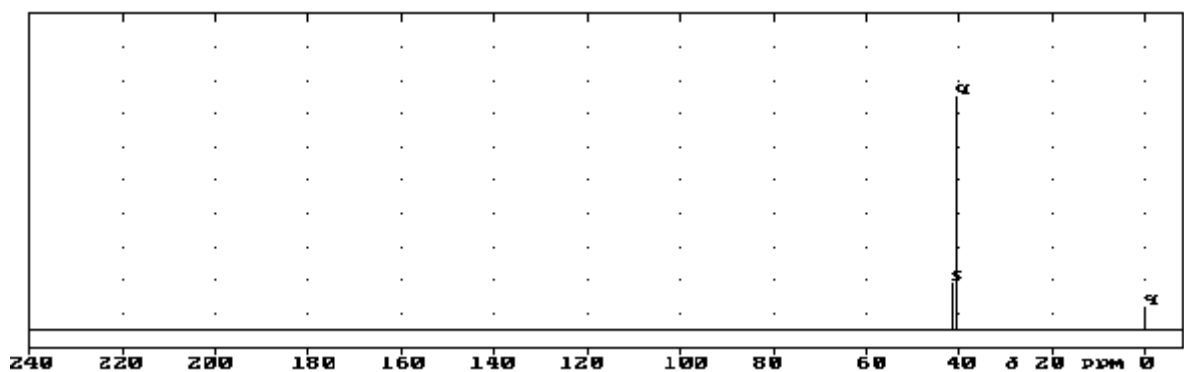
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



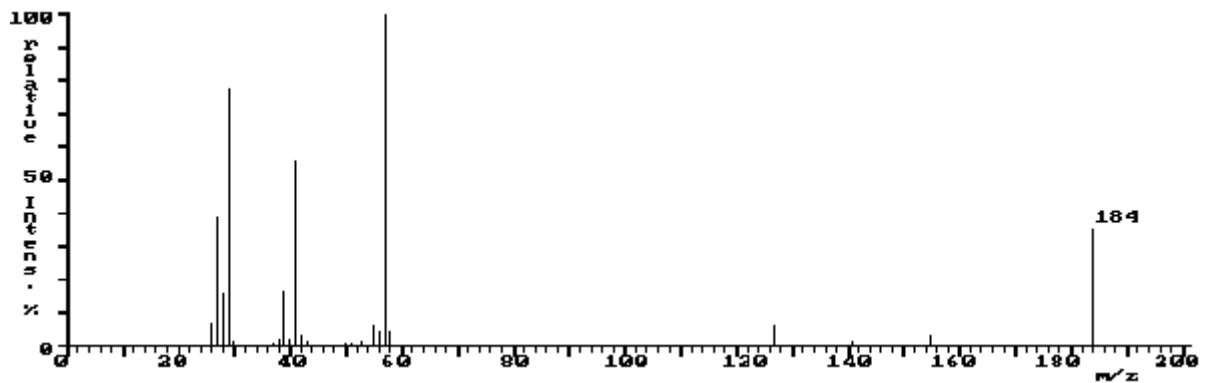
5. <sup>13</sup>C-NMR-Spektrum:



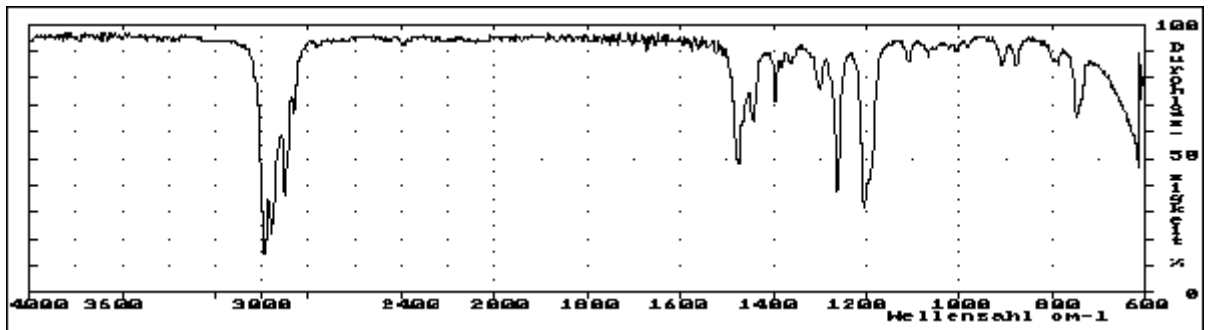
1. Quantitative Analyse:

C: 26.11 %	H: 04.93 %	O:				enthält: C, H, I
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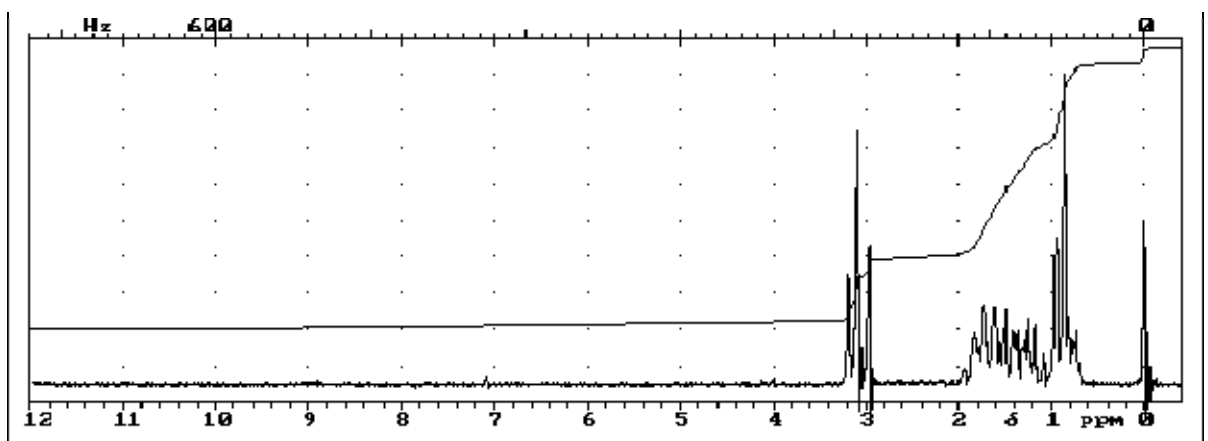
2. MS-Spektrum



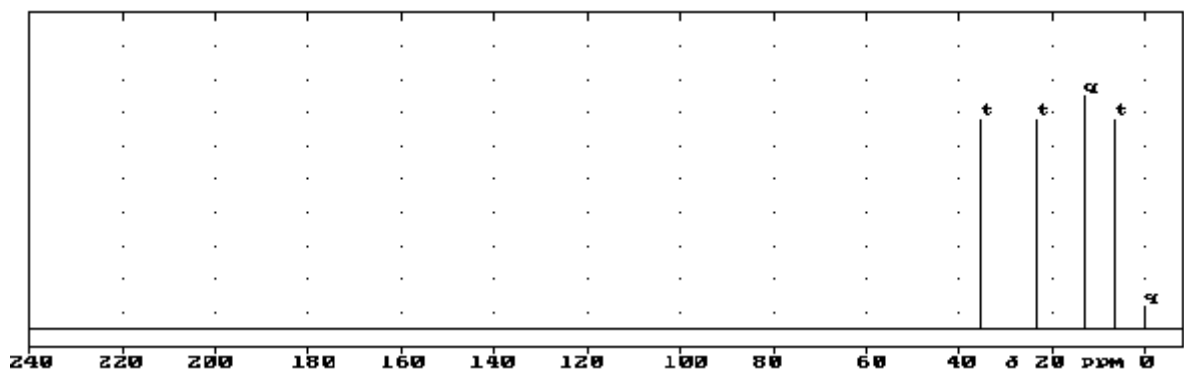
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



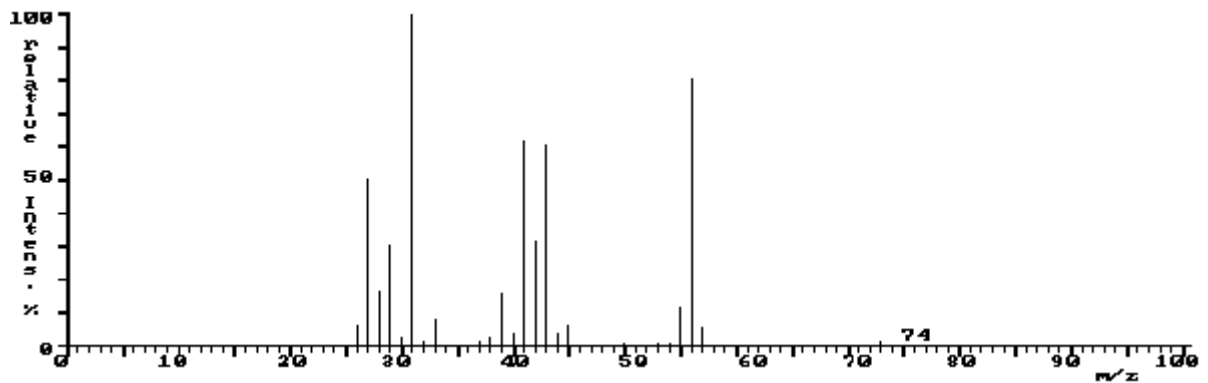
5. <sup>13</sup>C-NMR-Spektrum:



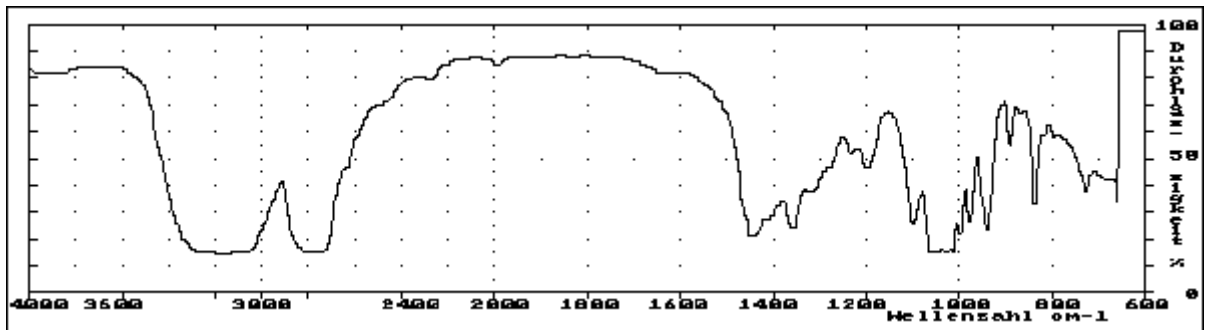
1. Quantitative Analyse:

C: 64.82 %	H: 13.60 %	O:				enthält: C, H, O
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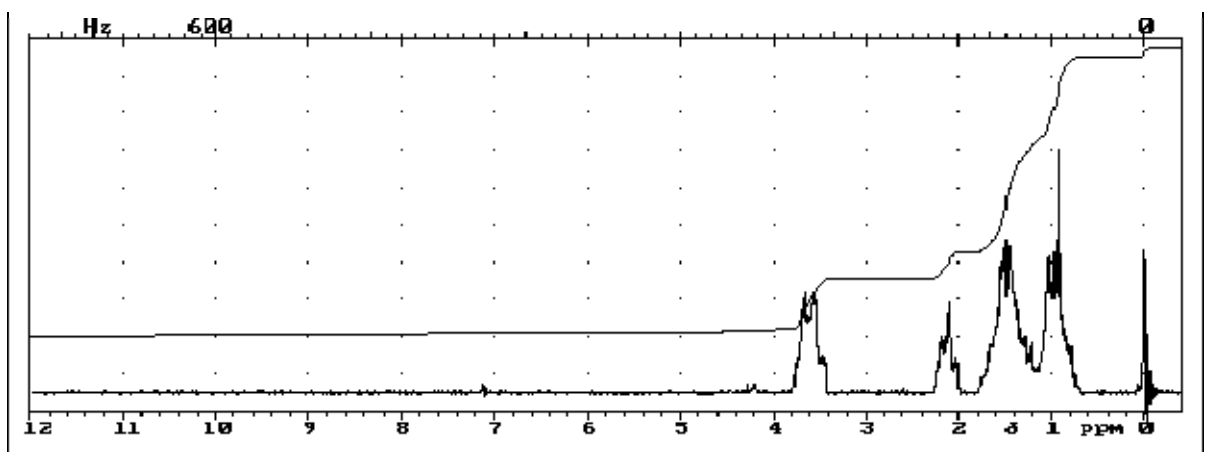
2. MS-Spektrum



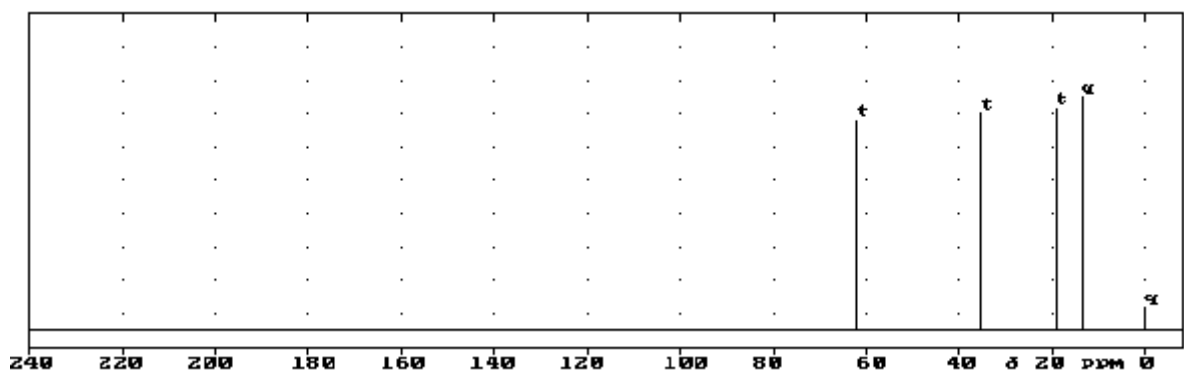
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



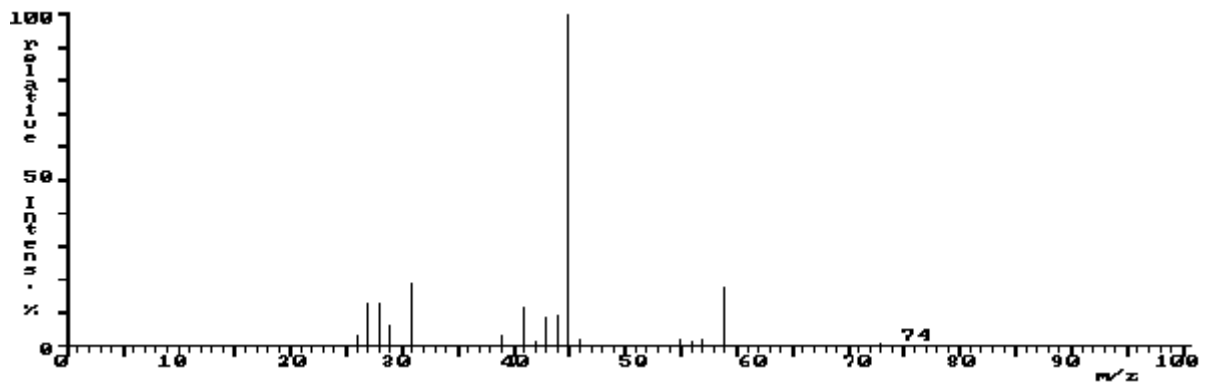
5. <sup>13</sup>C-NMR-Spektrum:



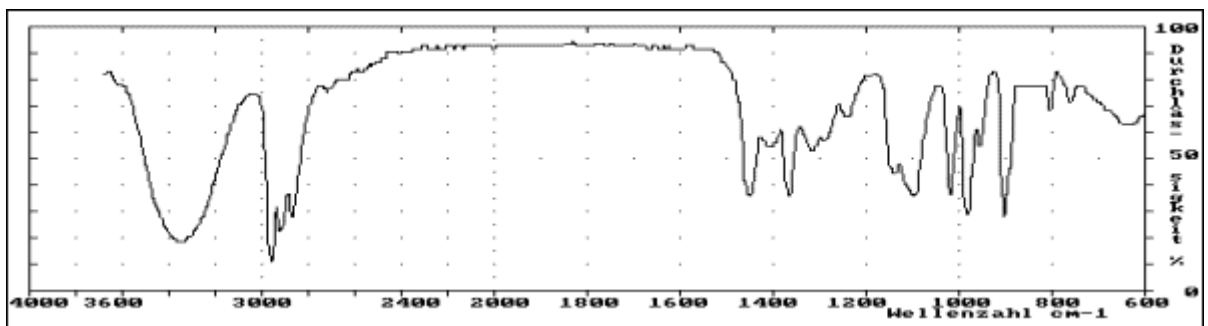
1. Quantitative Analyse:

C: 64.82 %	H: 13.60 %	O:				enthält: C, H, O
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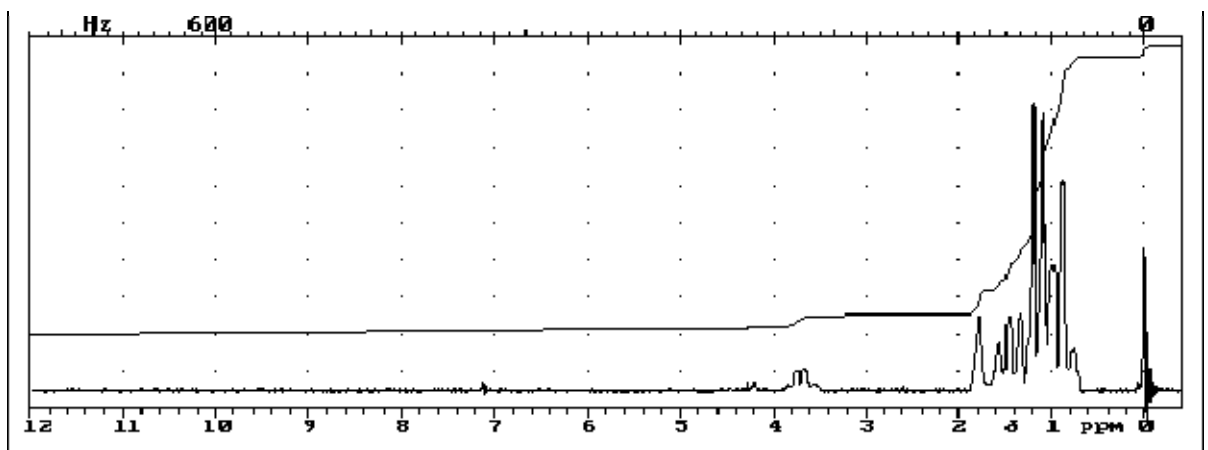
2. MS-Spektrum



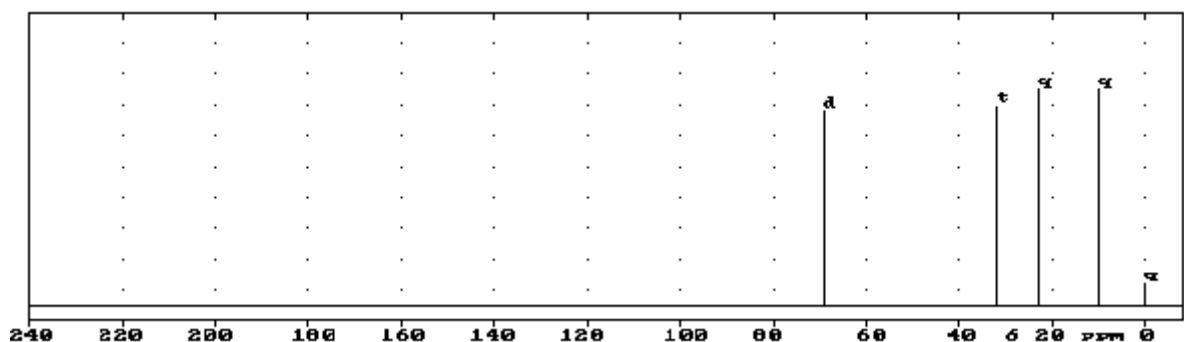
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

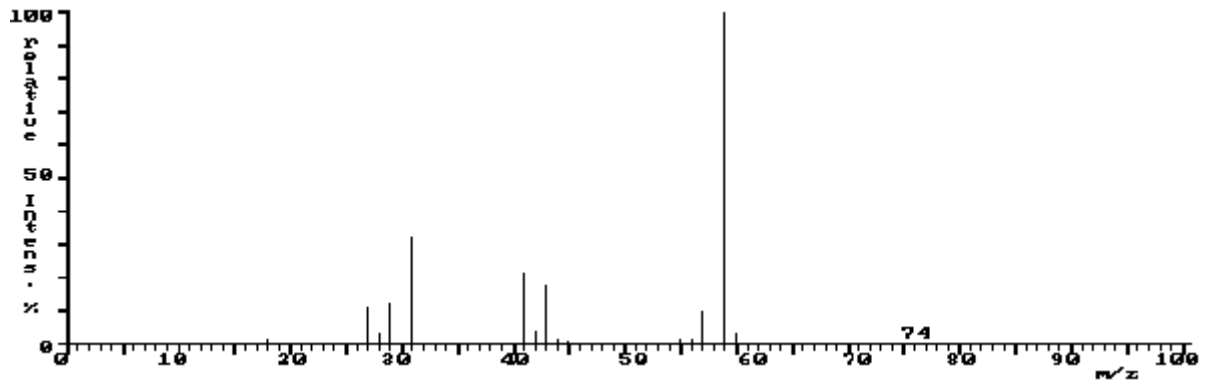




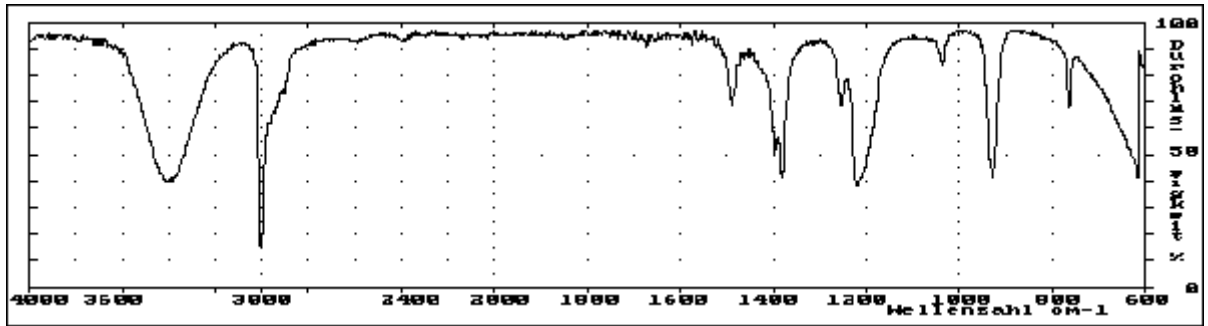
1. Quantitative Analyse:

C: 64.82 %	H: 13.60 %	O:				enthält: C, H, O
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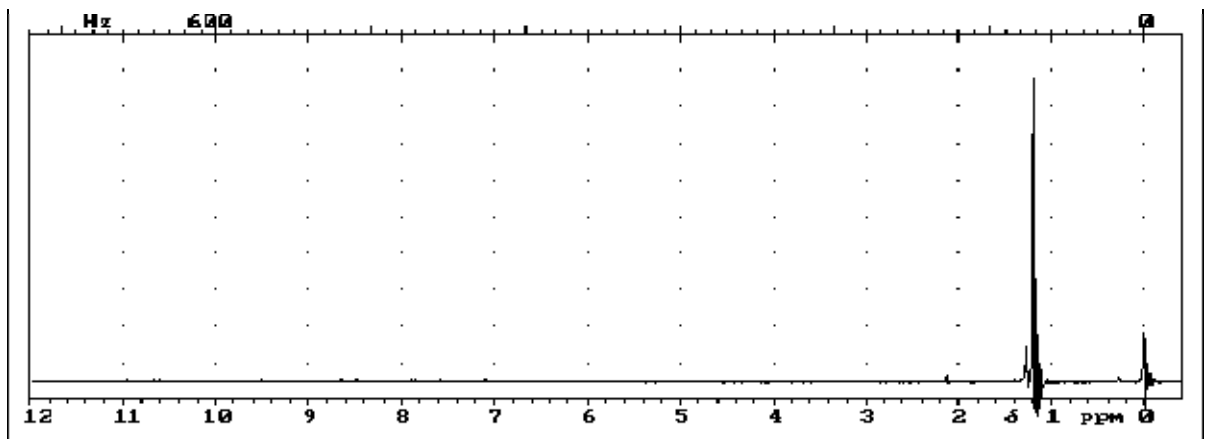
2. MS-Spektrum



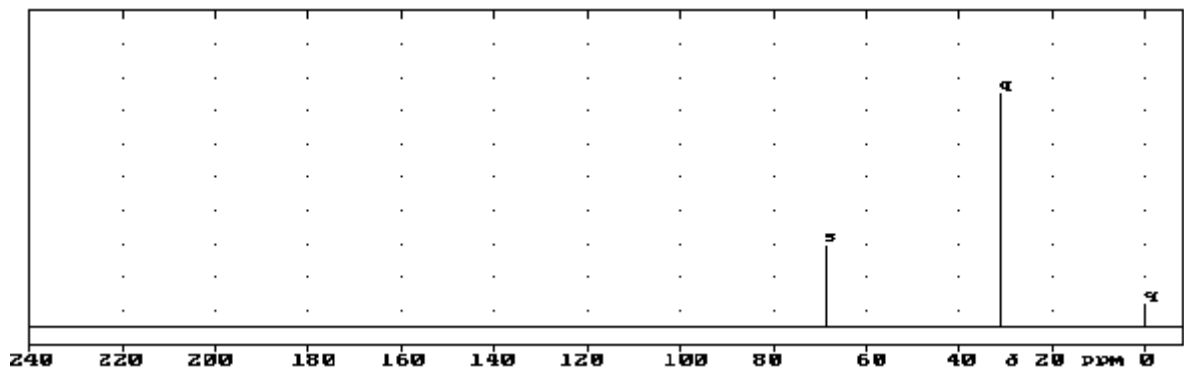
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



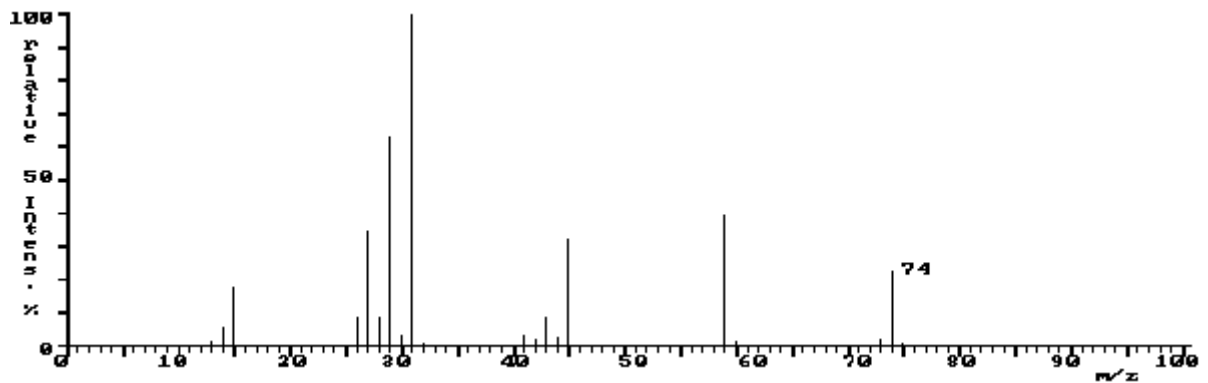
5. <sup>13</sup>C-NMR-Spektrum:



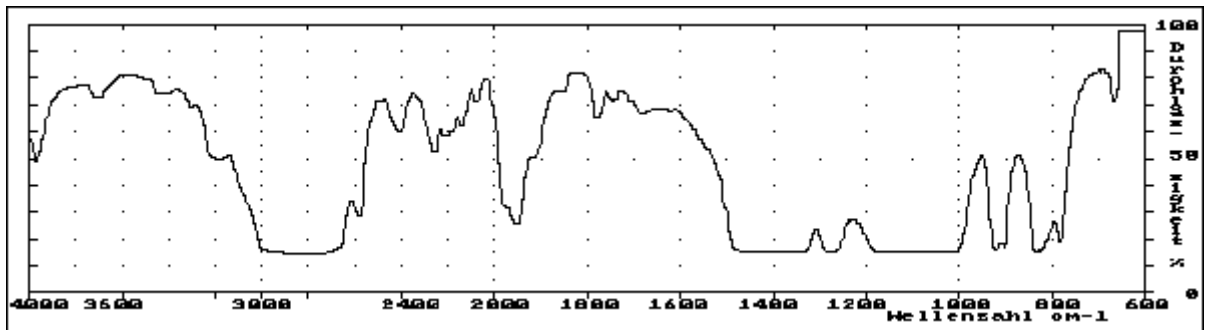
1. Quantitative Analyse:

C: 64.82 %	H: 13.60 %	O:				enthält: C, H, O
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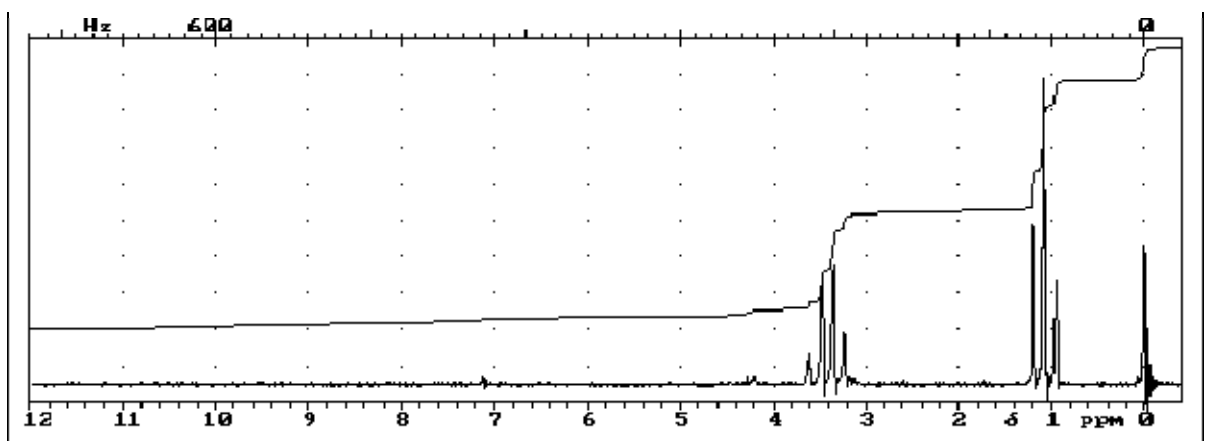
2. MS-Spektrum



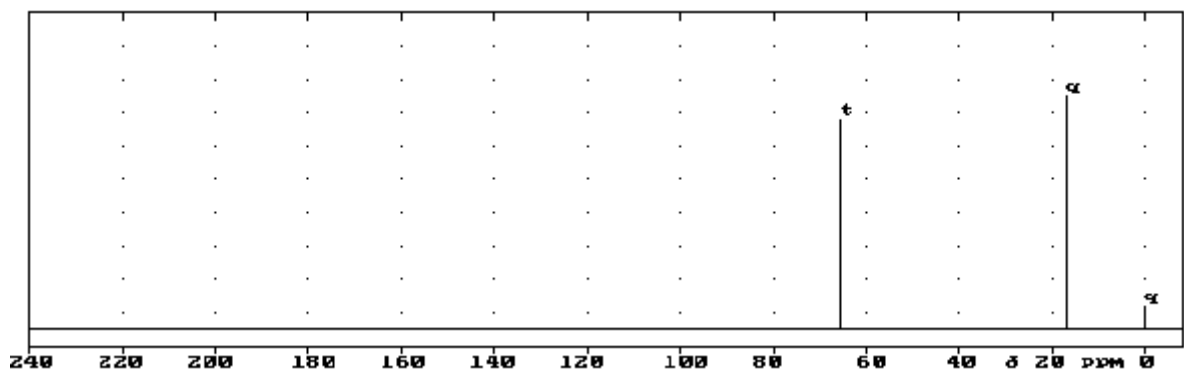
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



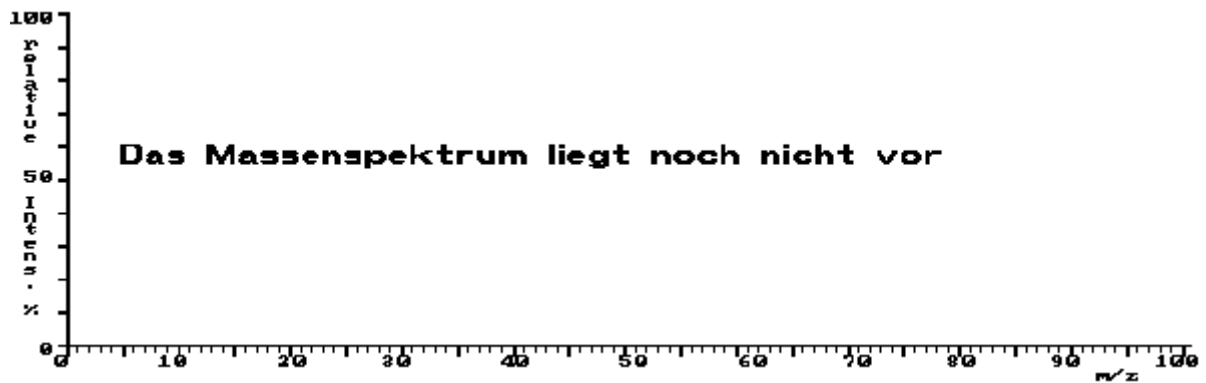
5. <sup>13</sup>C-NMR-Spektrum:



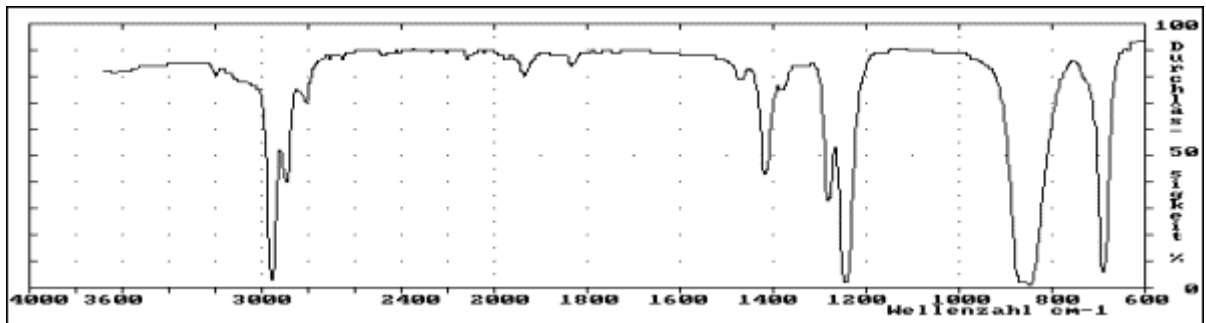
1. Quantitative Analyse:

C: 54.46 %	H: 13.71 %	O:				enthält: C, H, Si
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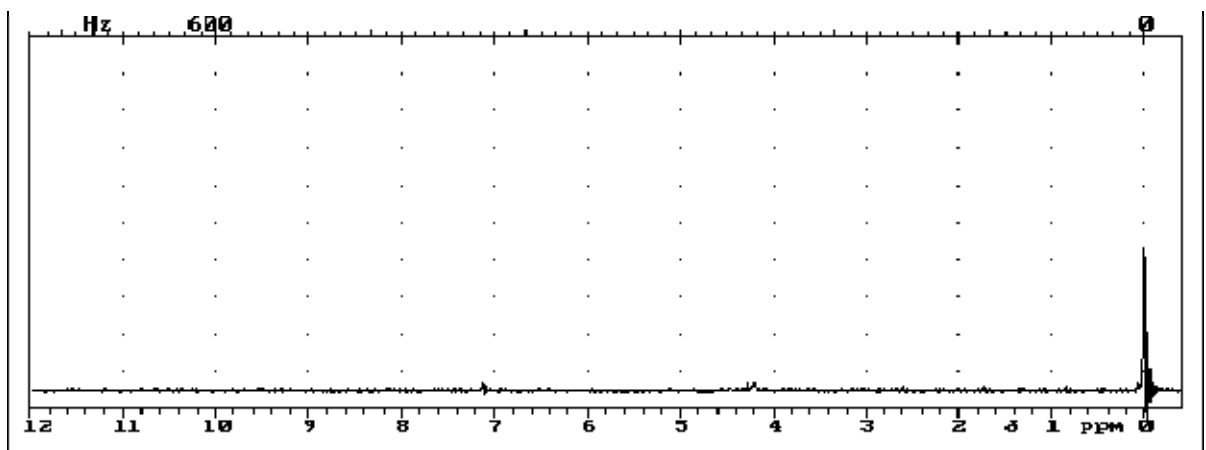
2. MS-Spektrum



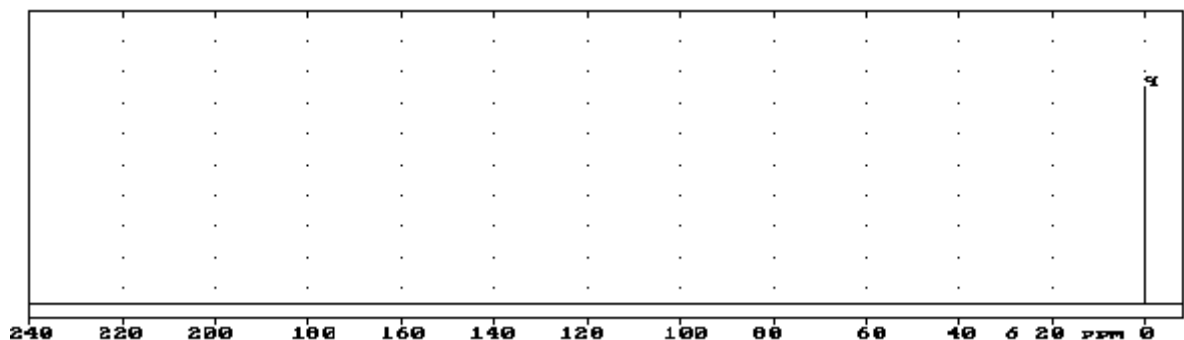
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



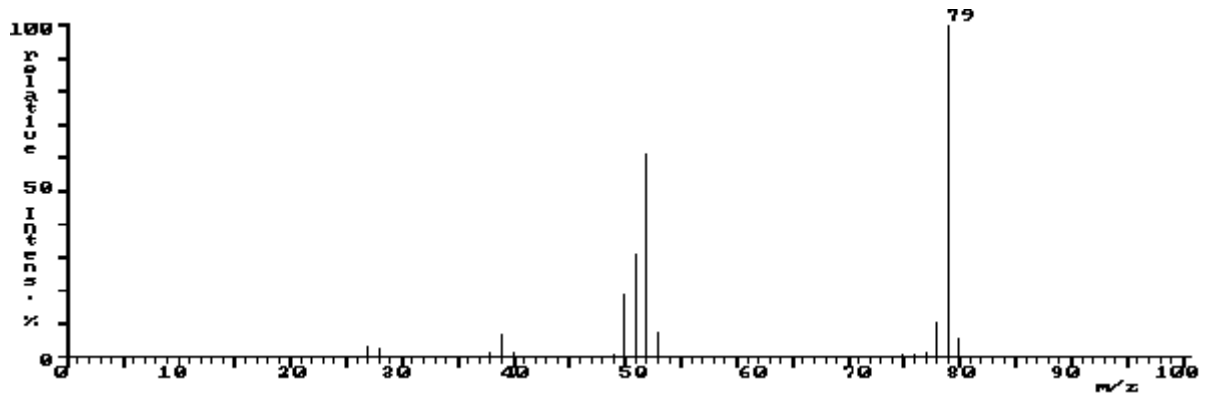
5. <sup>13</sup>C-NMR-Spektrum:



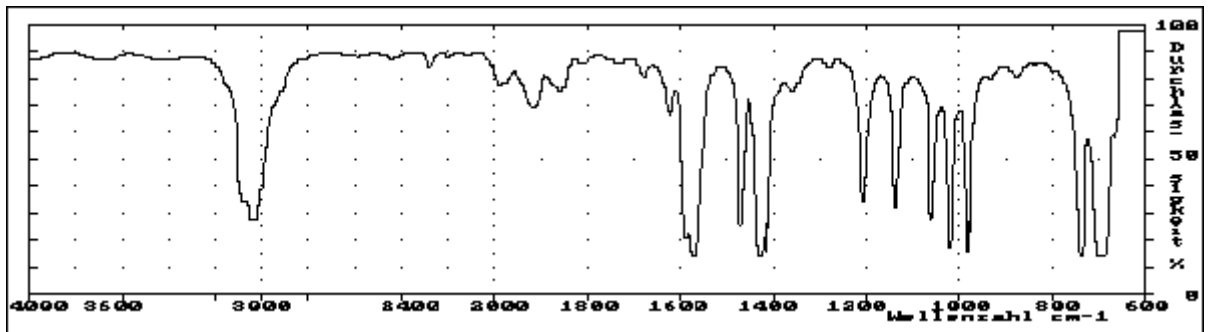
1. Quantitative Analyse:

C: 75.95 %	H: 06.33 %	O:				enthält: C, H, N
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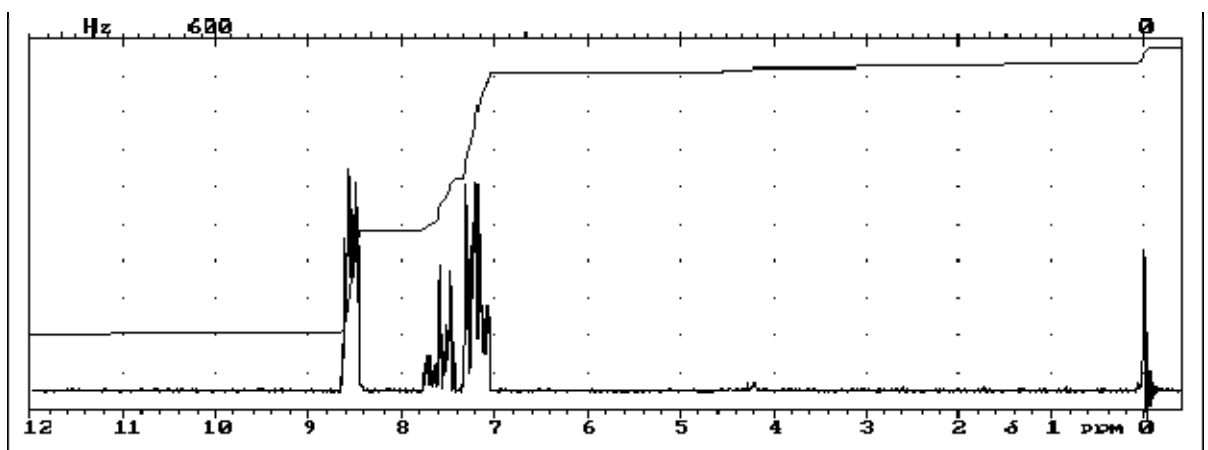
2. MS-Spektrum



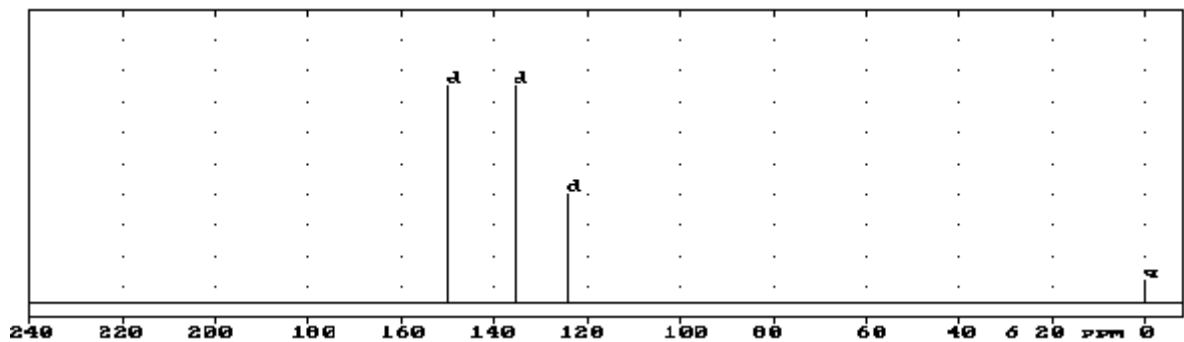
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



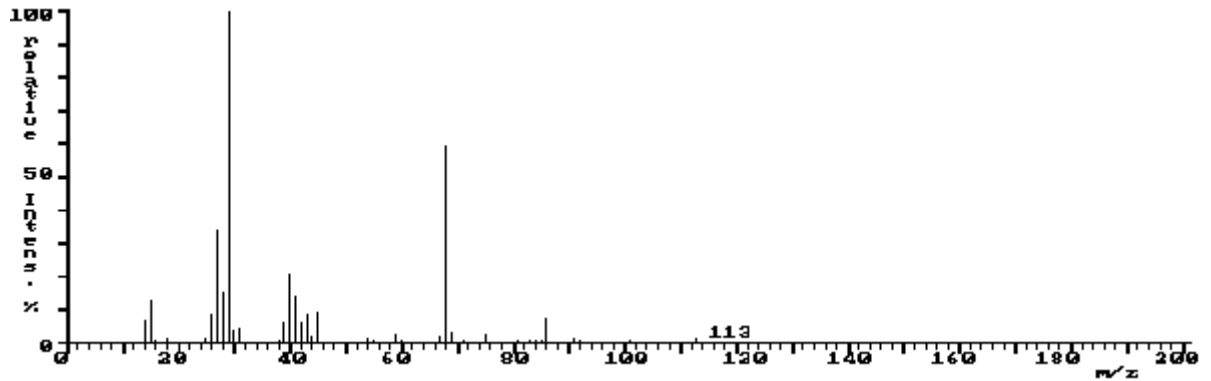
5. <sup>13</sup>C-NMR-Spektrum:



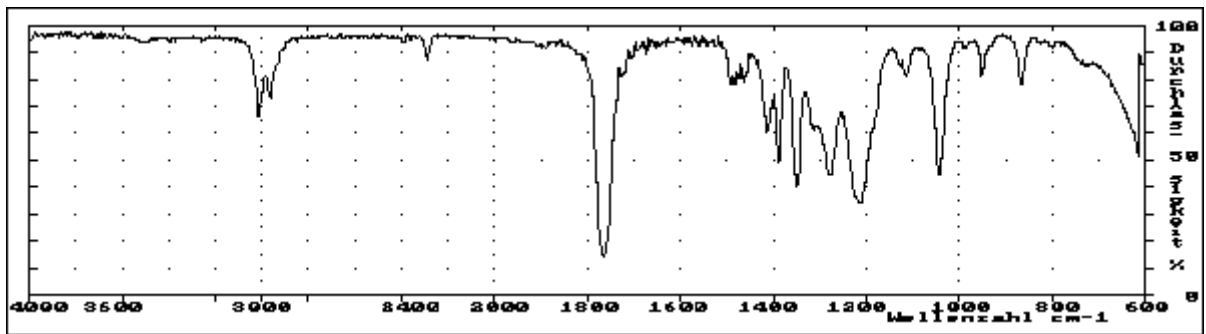
1. Quantitative Analyse:

: 53.09 %	H: 06.24 %	O:				enthält: C, H, O,N
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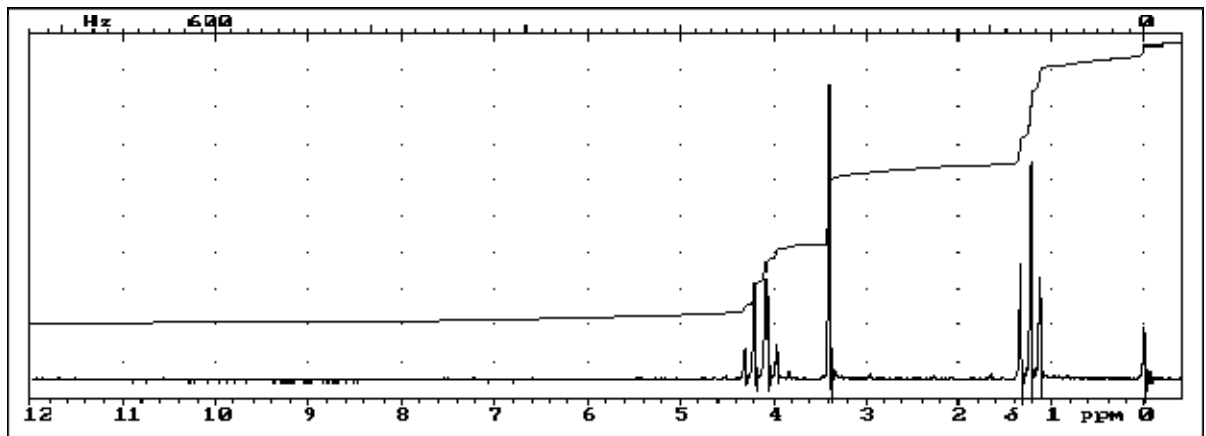
2. MS-Spektrum



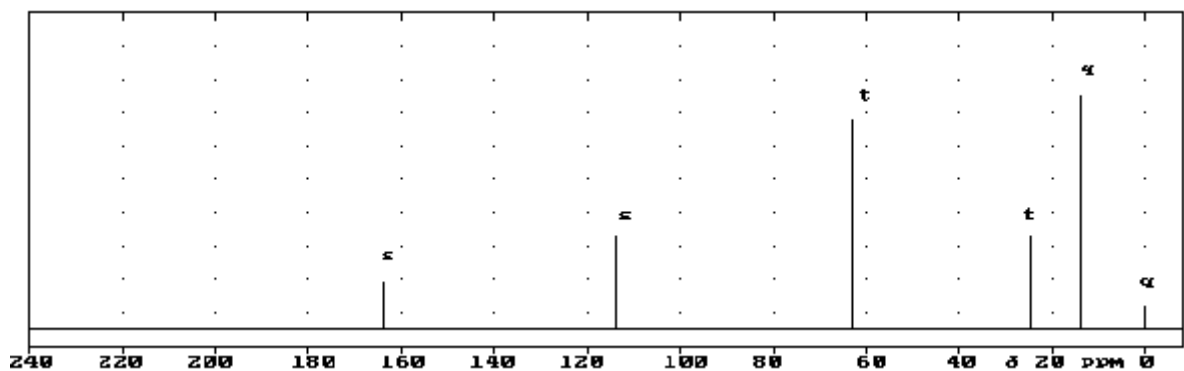
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



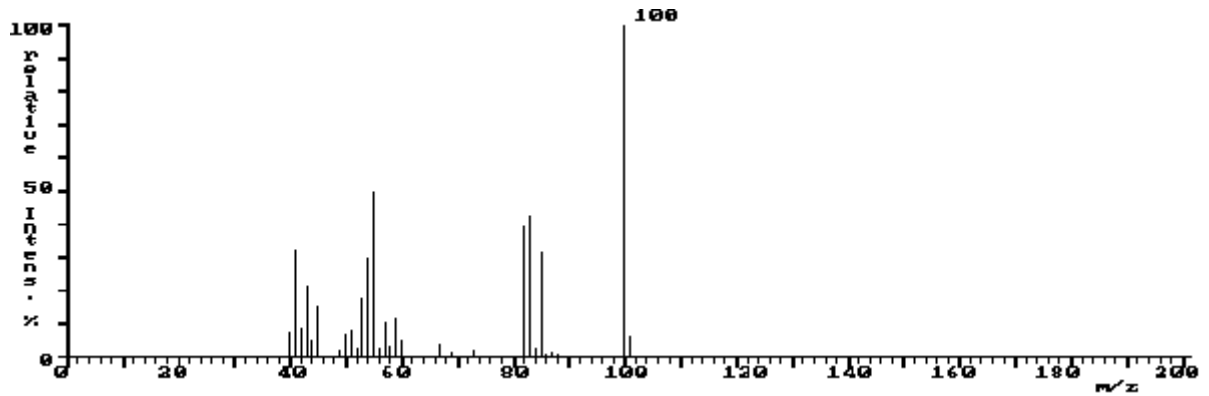
5. <sup>13</sup>C-NMR-Spektrum:



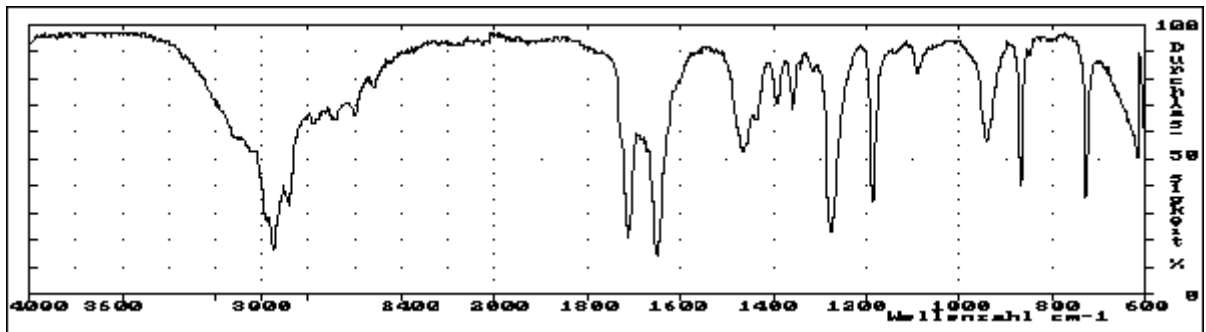
1. Quantitative Analyse:

C: 59.98 %	H: 08.05 %	O:				enthält: C, H, O
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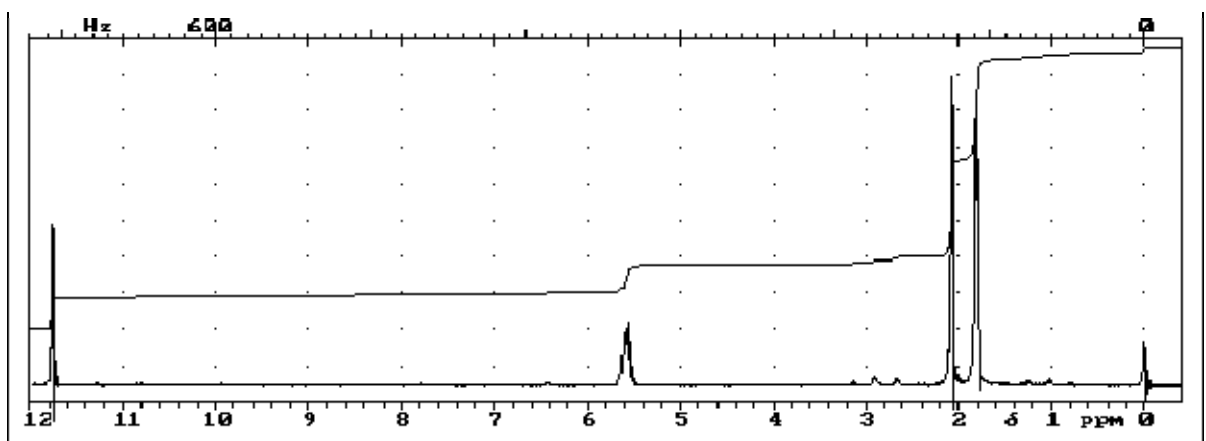
2. MS-Spektrum



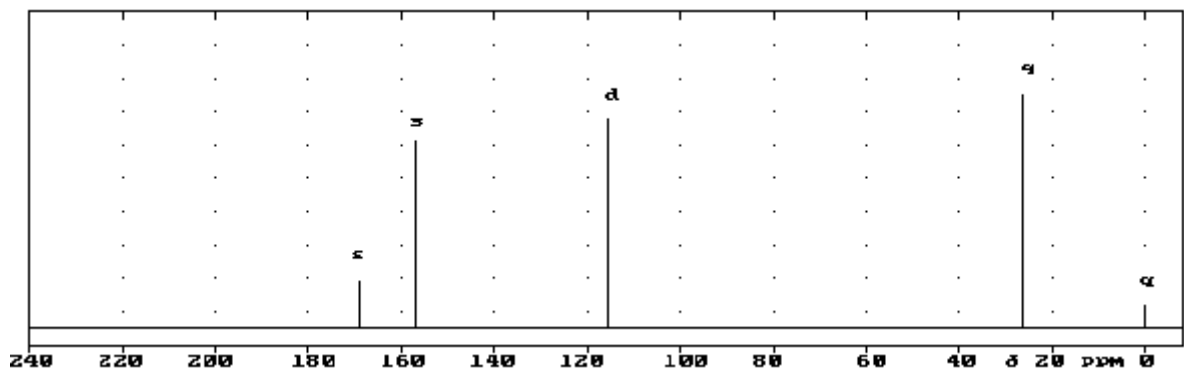
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



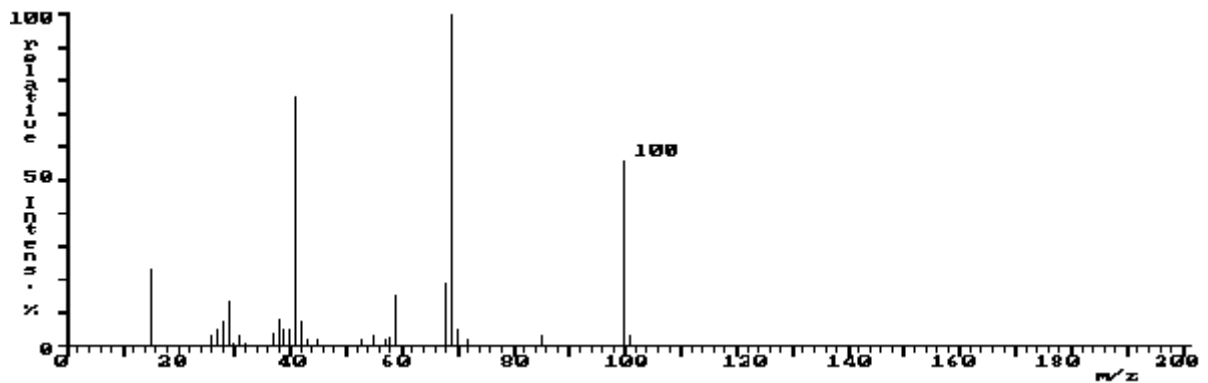
5. <sup>13</sup>C-NMR-Spektrum:



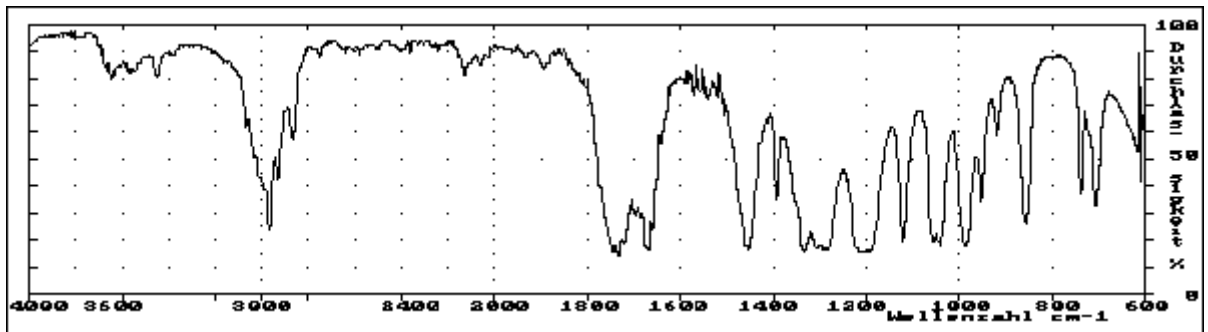
1. Quantitative Analyse:

C: 59.98 %	H: 08.05 %	O:				enthält: C, H, O
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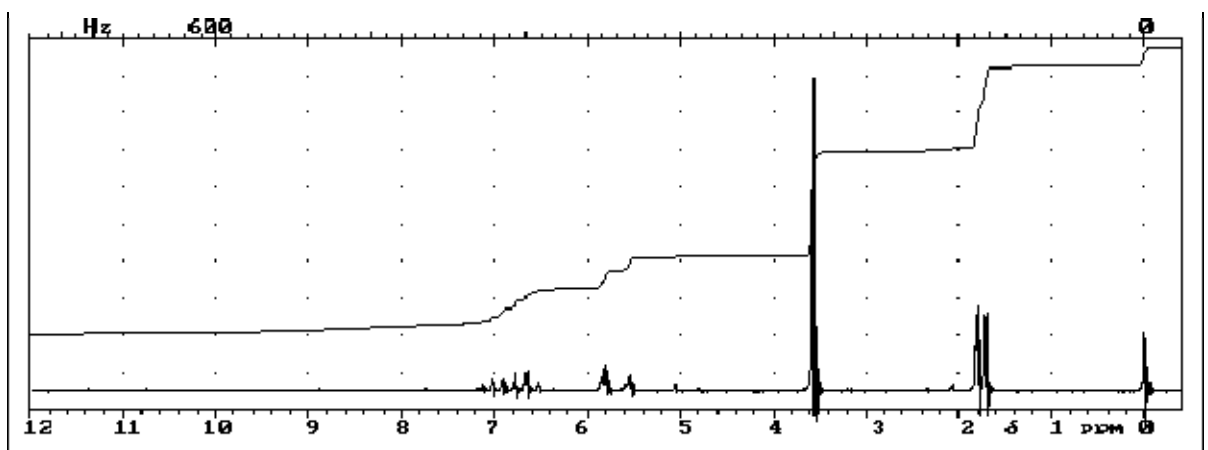
2. MS-Spektrum



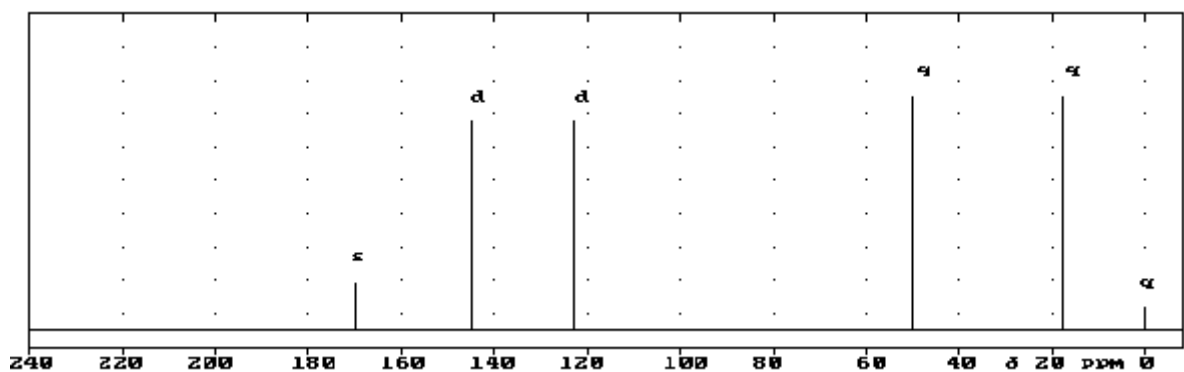
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



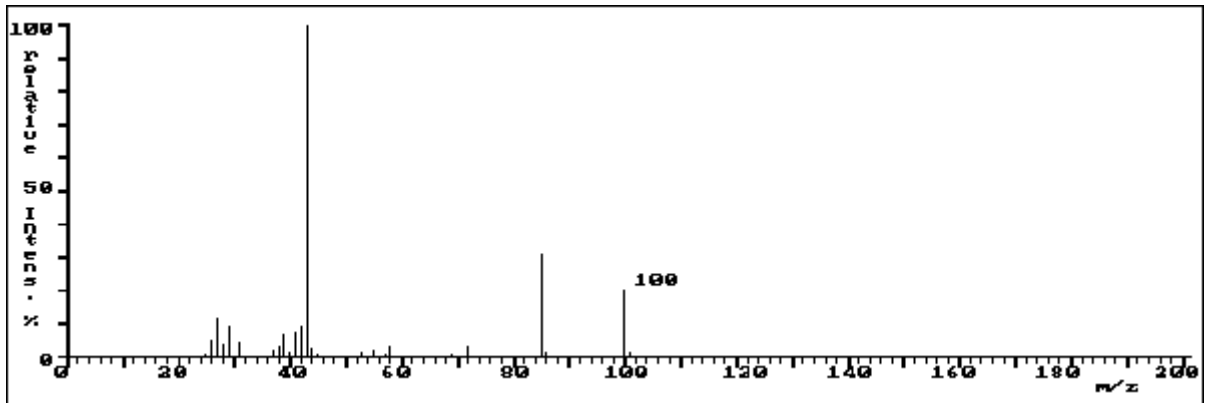
5. <sup>13</sup>C-NMR-Spektrum:



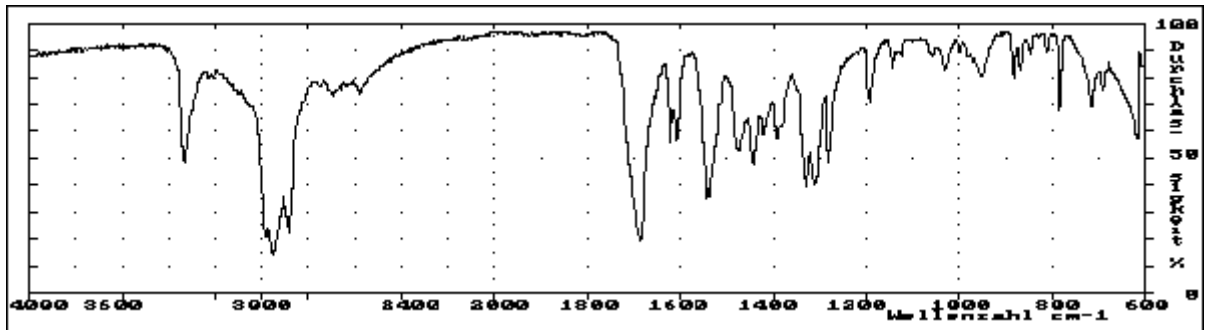
1. Quantitative Analyse:

C: 59.98 %	H: 08.05 %	O:				enthält: C, H, O
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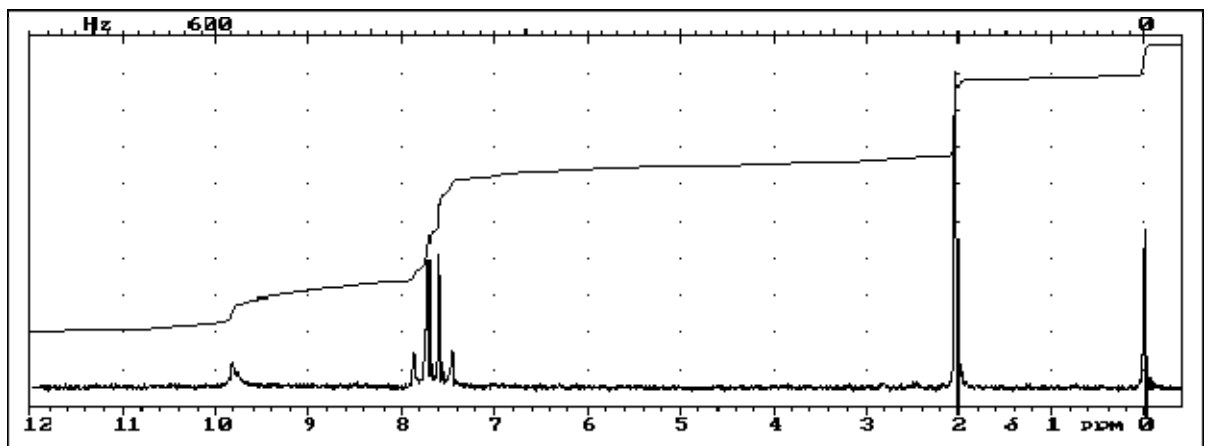
2. MS-Spektrum



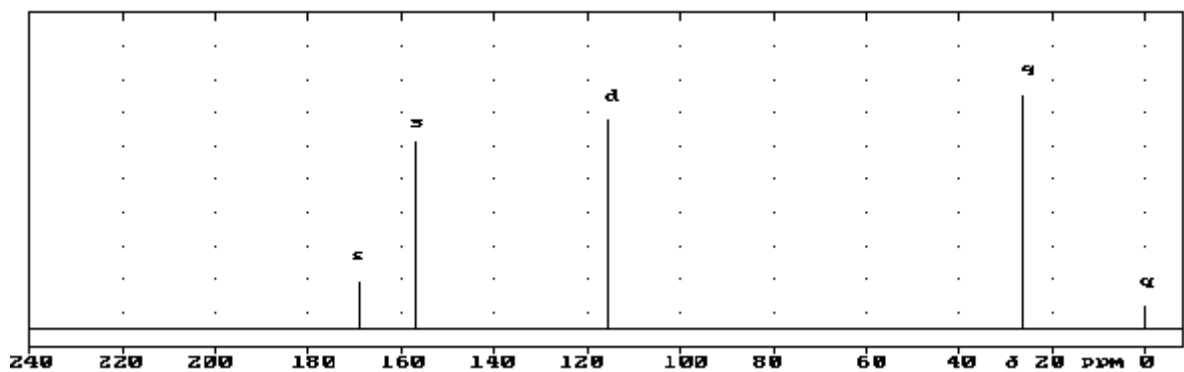
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

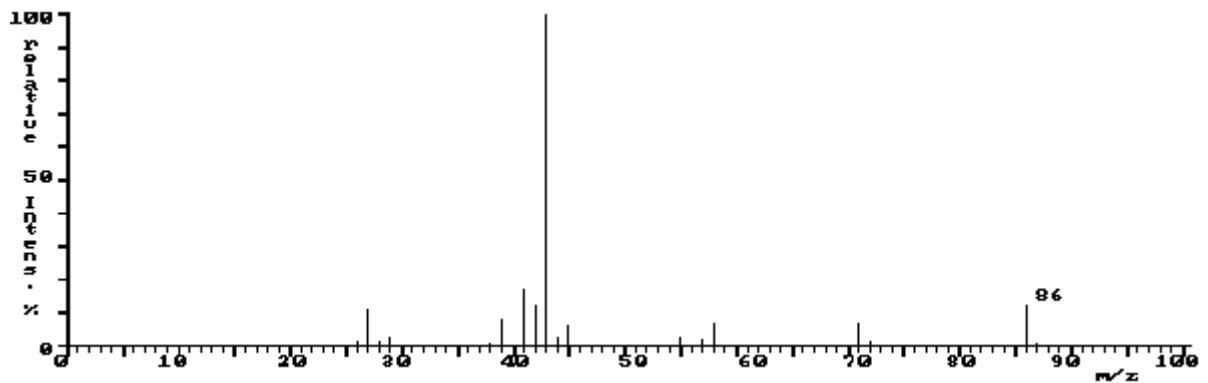




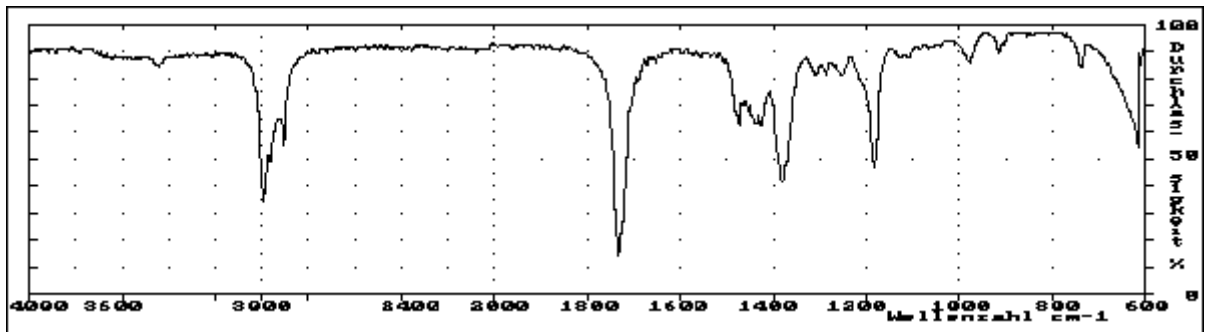
1. Quantitative Analyse:

C: 69.72 %	H: 11.70 %	O:				enthält: C, H, O
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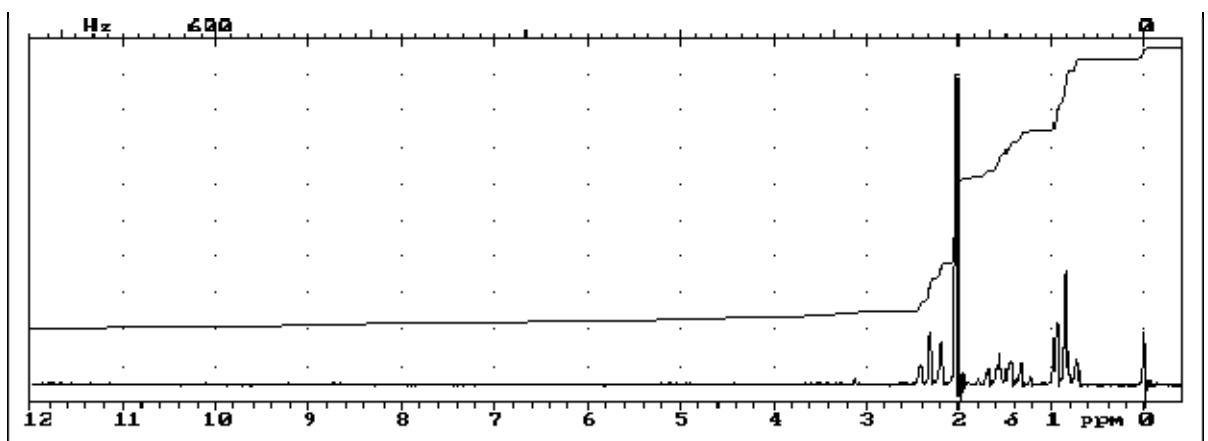
2. MS-Spektrum



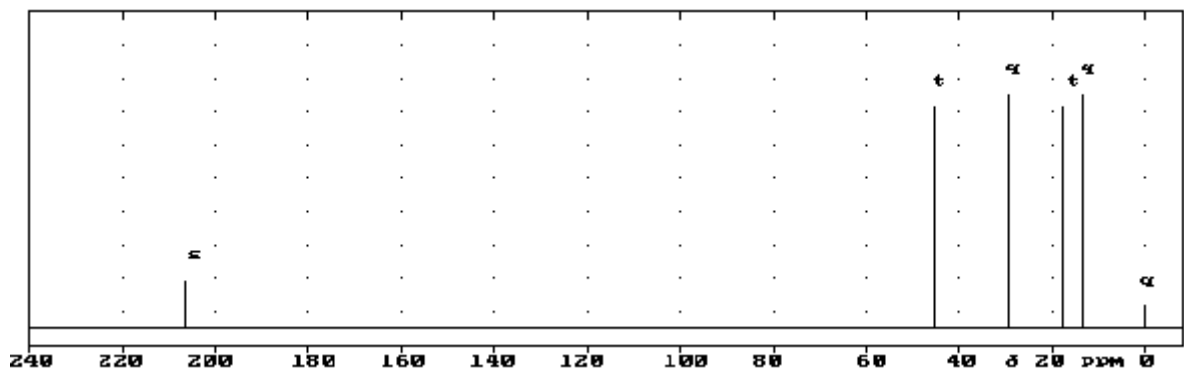
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



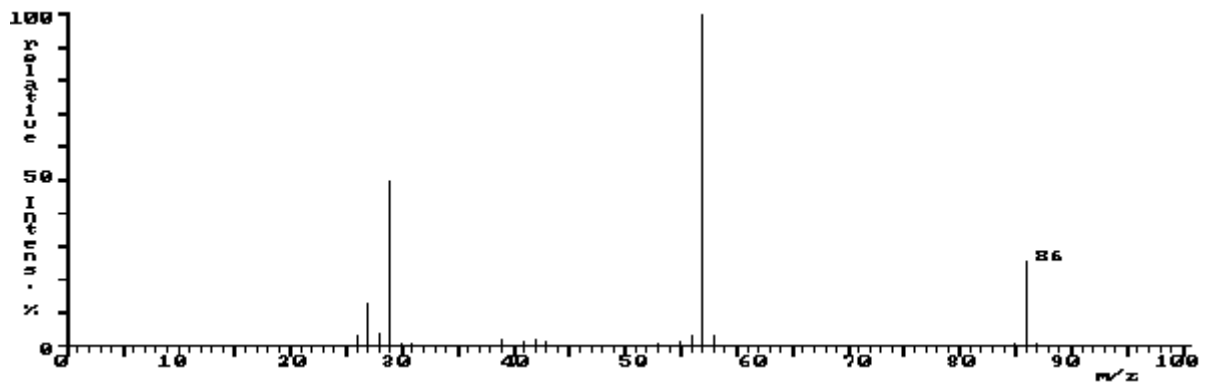
5. <sup>13</sup>C-NMR-Spektrum:



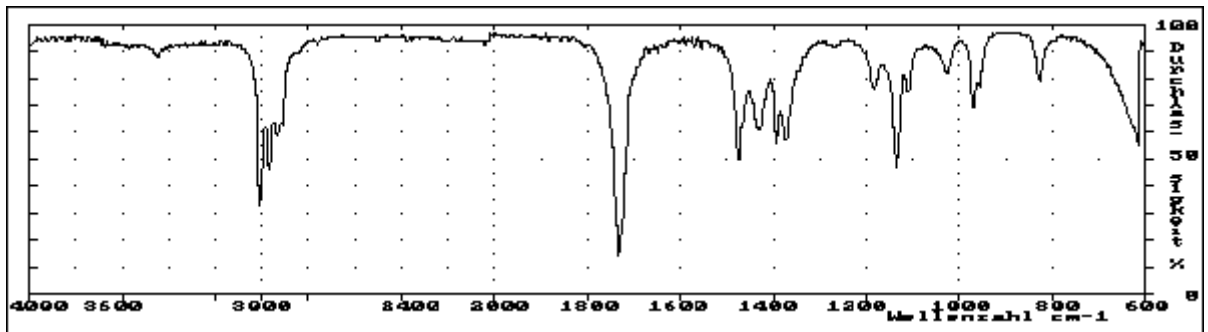
1. Quantitative Analyse:

C: 69.72 %	H: 11.70 %	O:				enthält: C, H, O
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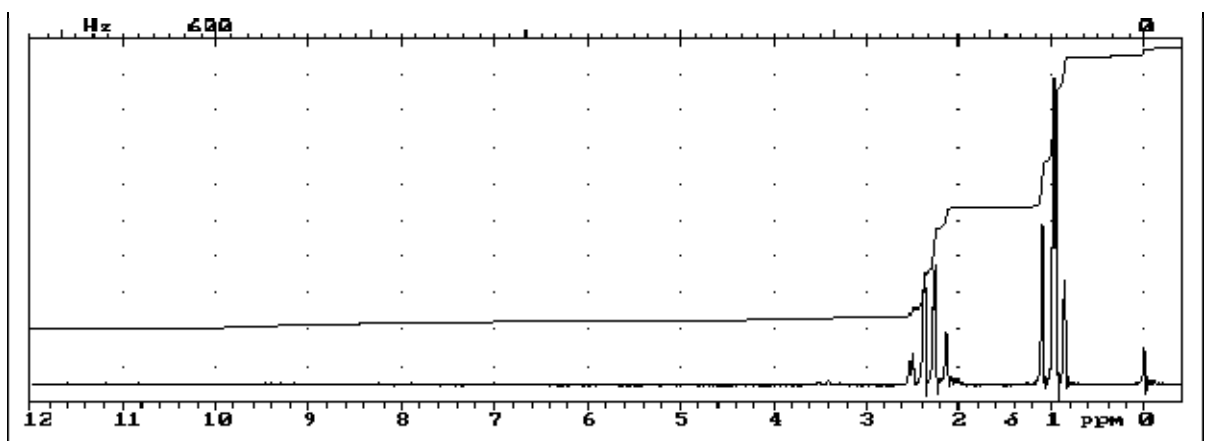
2. MS-Spektrum



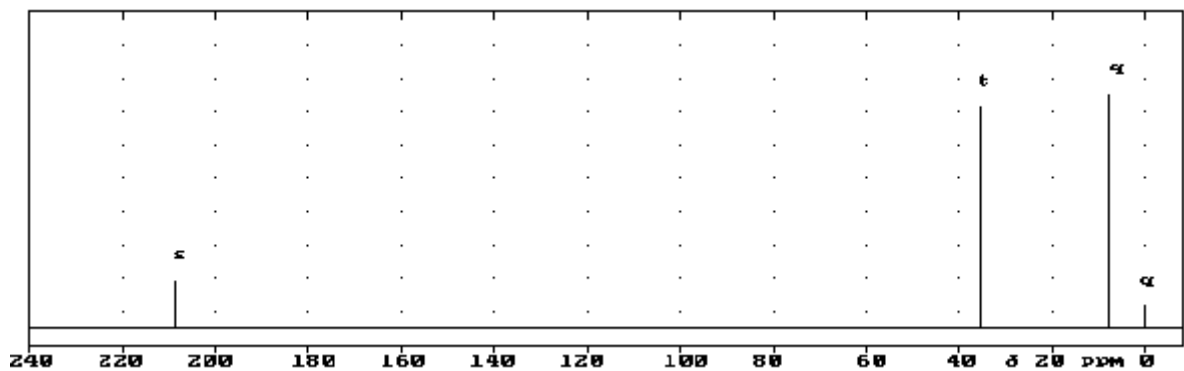
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



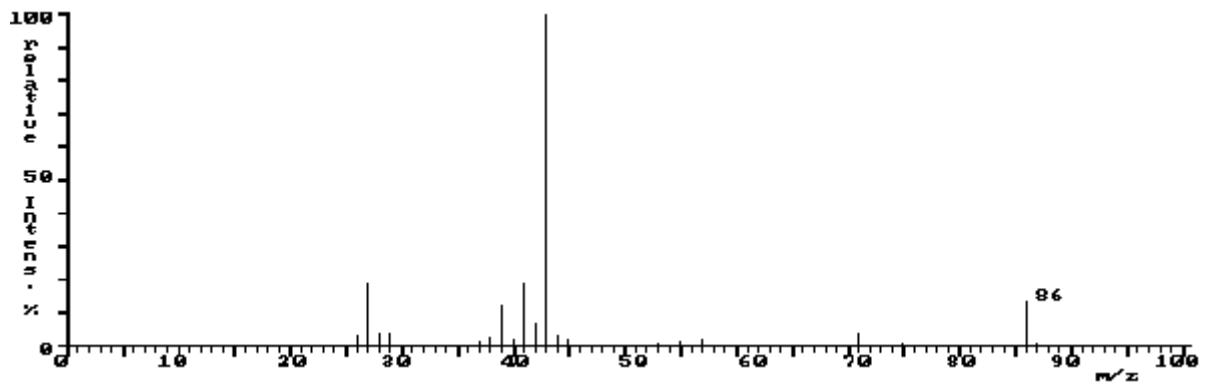
5. <sup>13</sup>C-NMR-Spektrum:



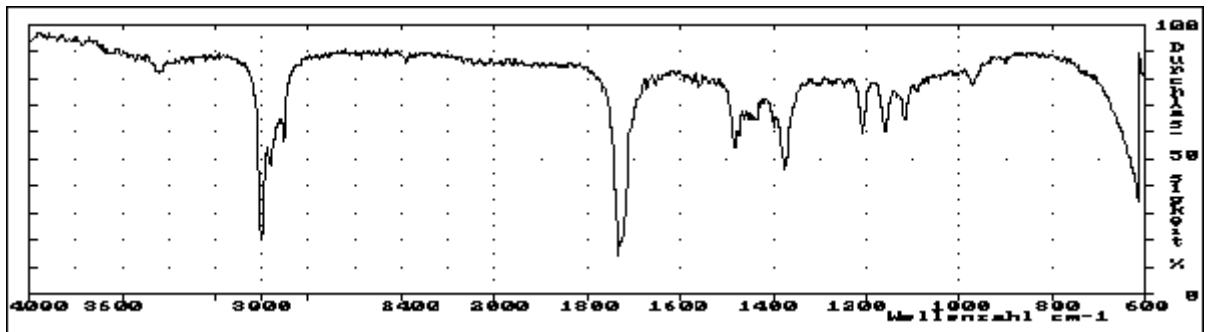
1. Quantitative Analyse:

C: 69.72 %	H: 11.70 %	O:				enthält: C, H, O
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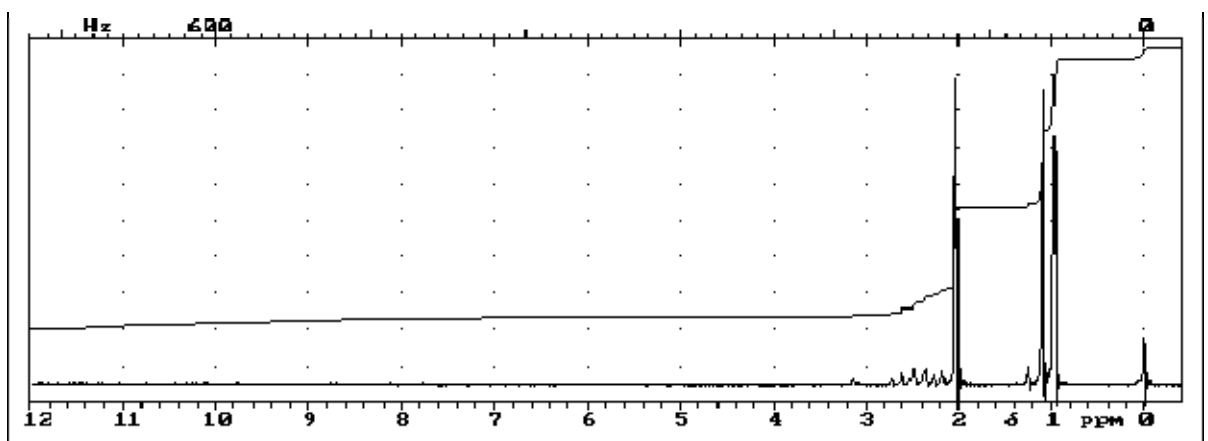
2. MS-Spektrum



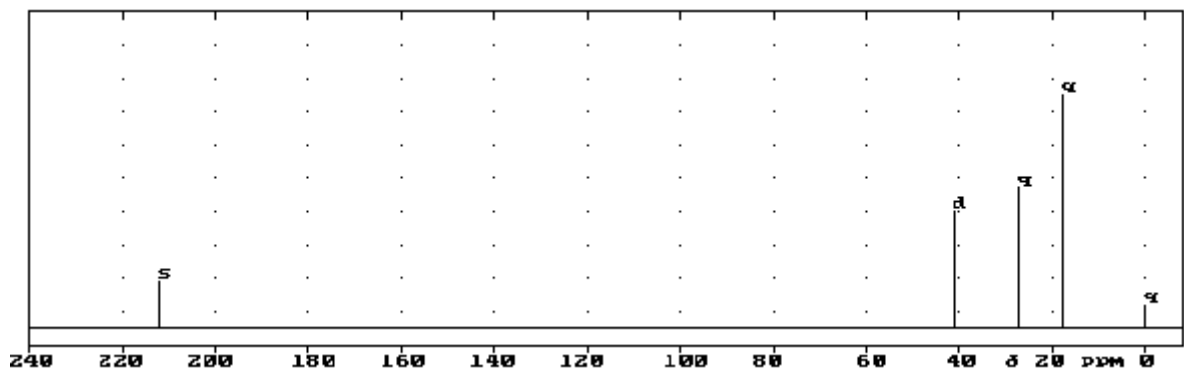
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



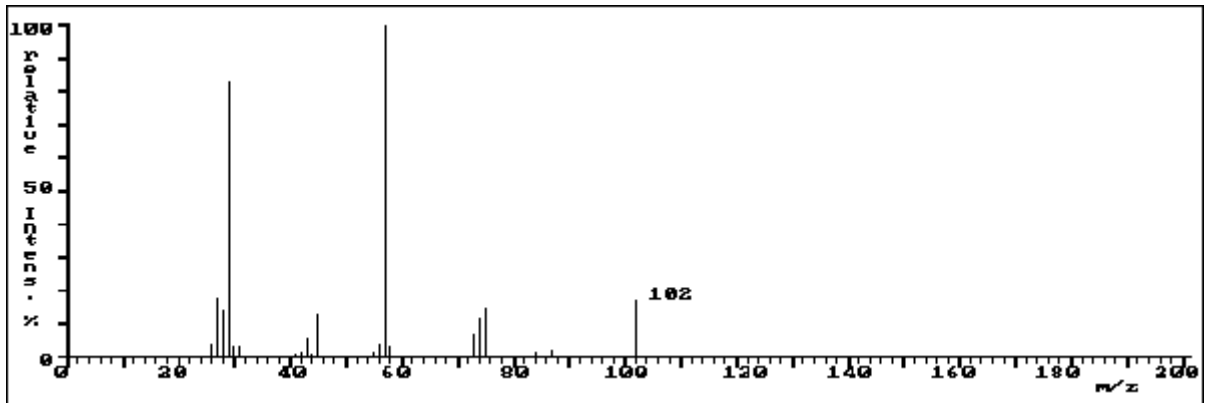
5. <sup>13</sup>C-NMR-Spektrum:



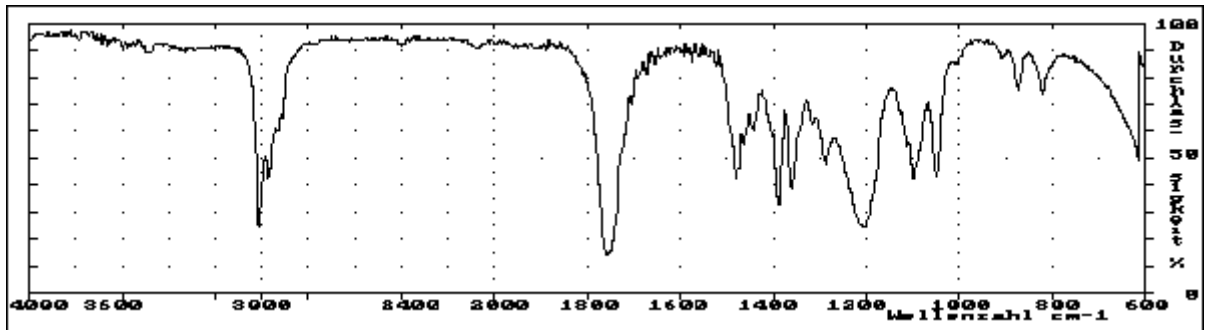
1. Quantitative Analyse:

C: 58.80 %	H: 09.87	O:				enthält: C, H, O
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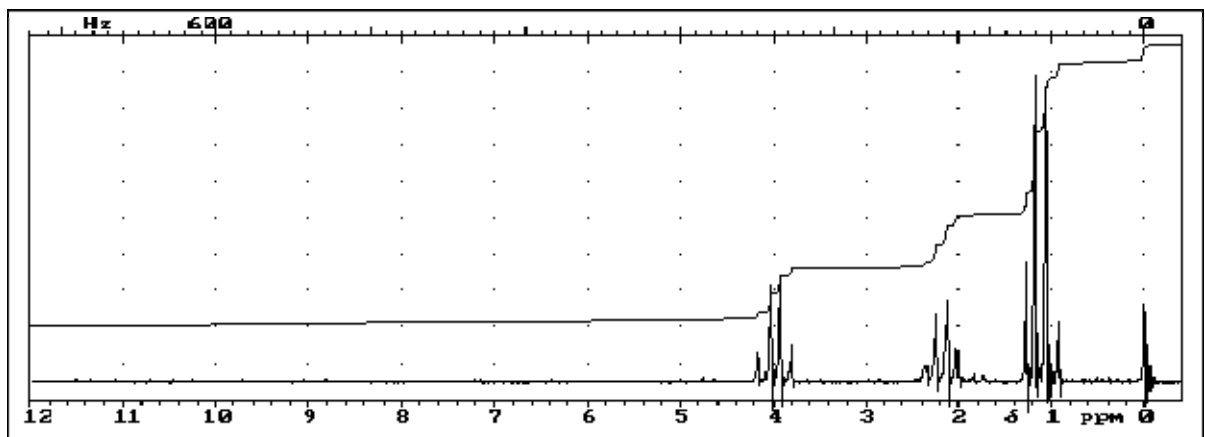
2. MS-Spektrum



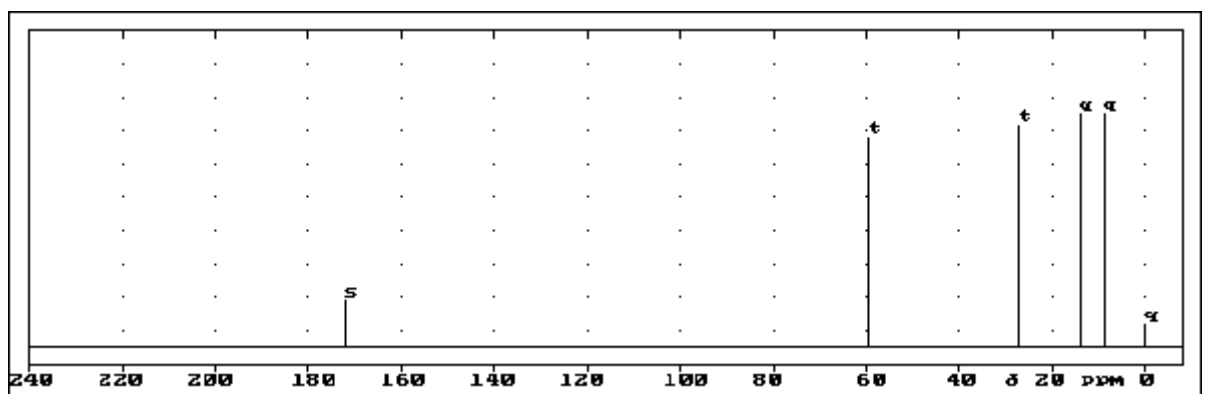
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



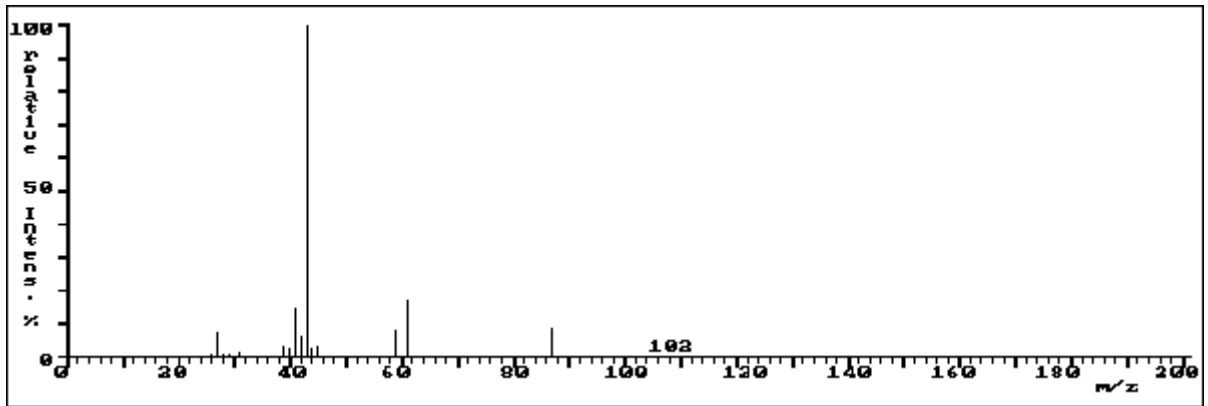
5. <sup>13</sup>C-NMR-Spektrum:



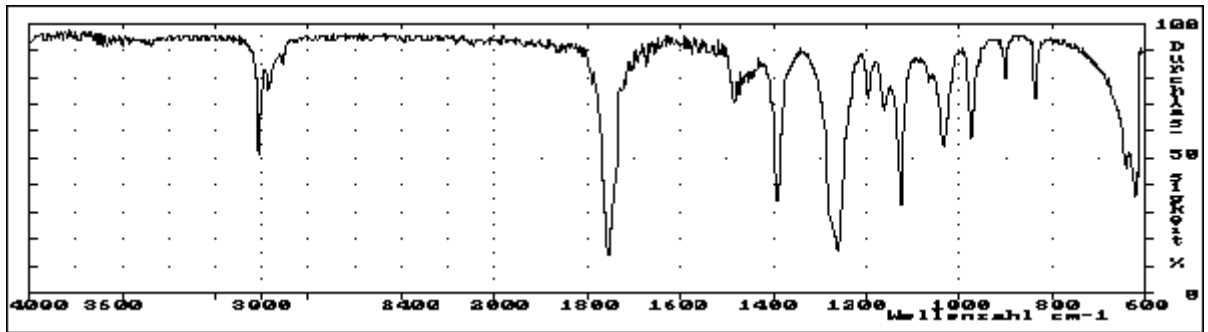
1. Quantitative Analyse:

C: 58.80 %	H: 09.87 %	O:				enthält: C, H, O
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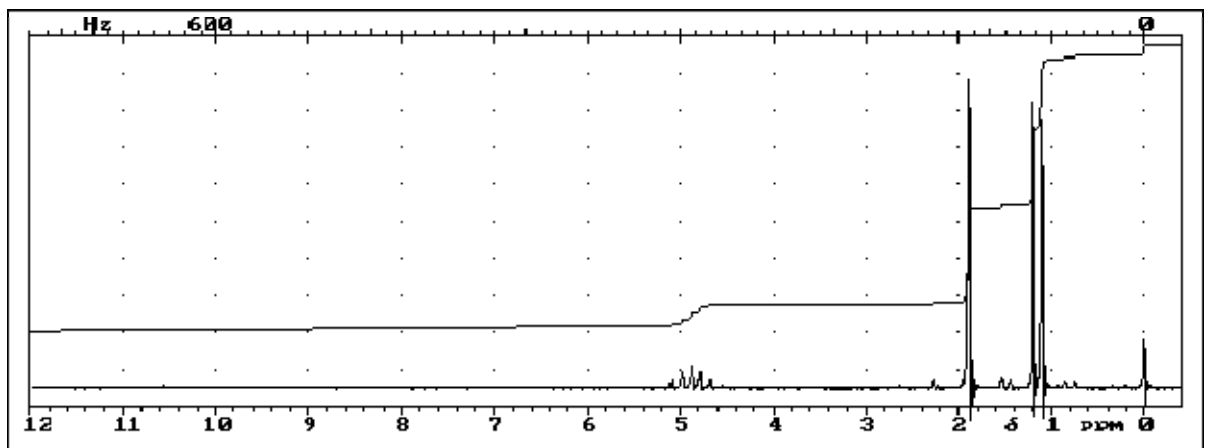
2. MS-Spektrum



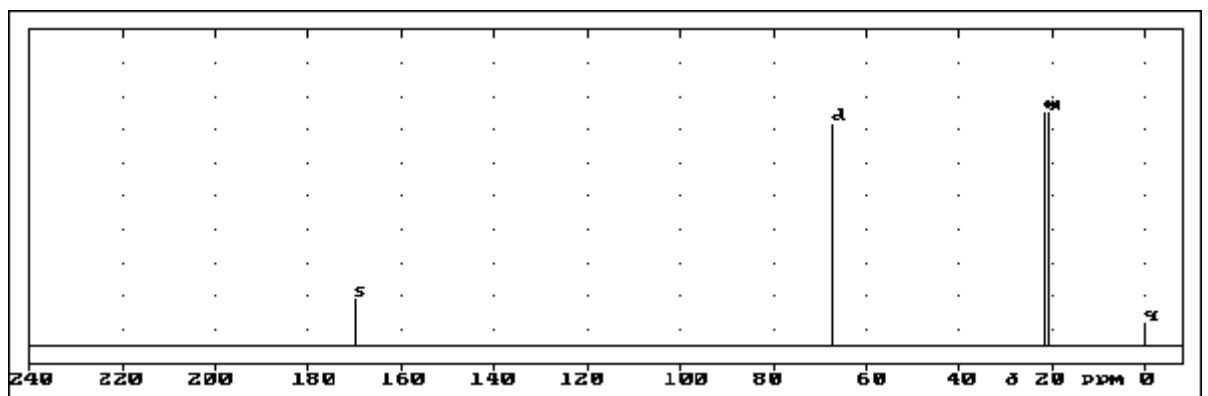
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



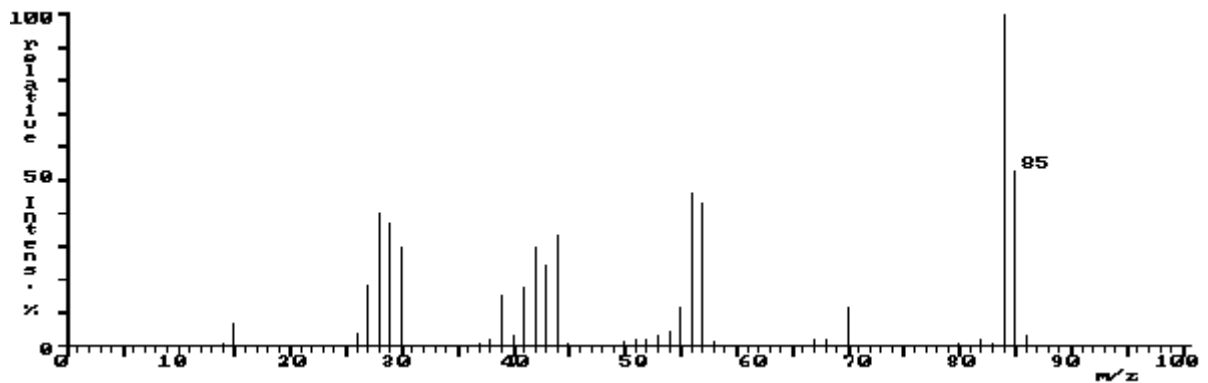
5. <sup>13</sup>C-NMR-Spektrum:



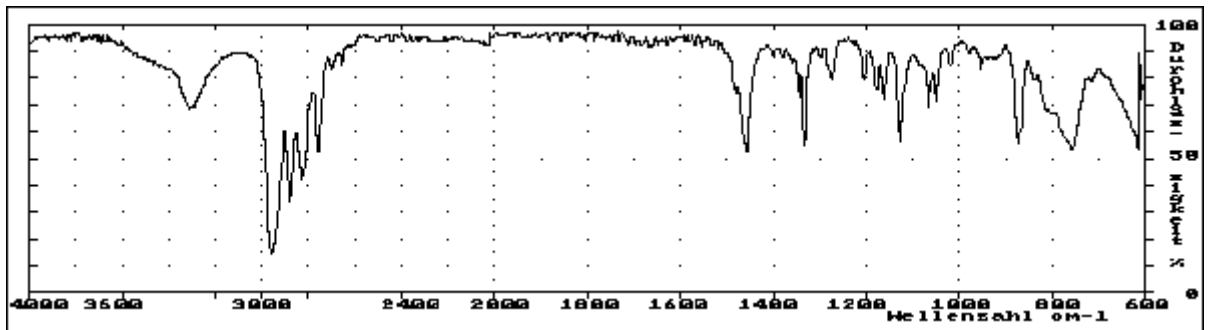
1. Quantitative Analyse:

C: 70.53 %	H: 13.02 %	O:				enthält: C, H, N
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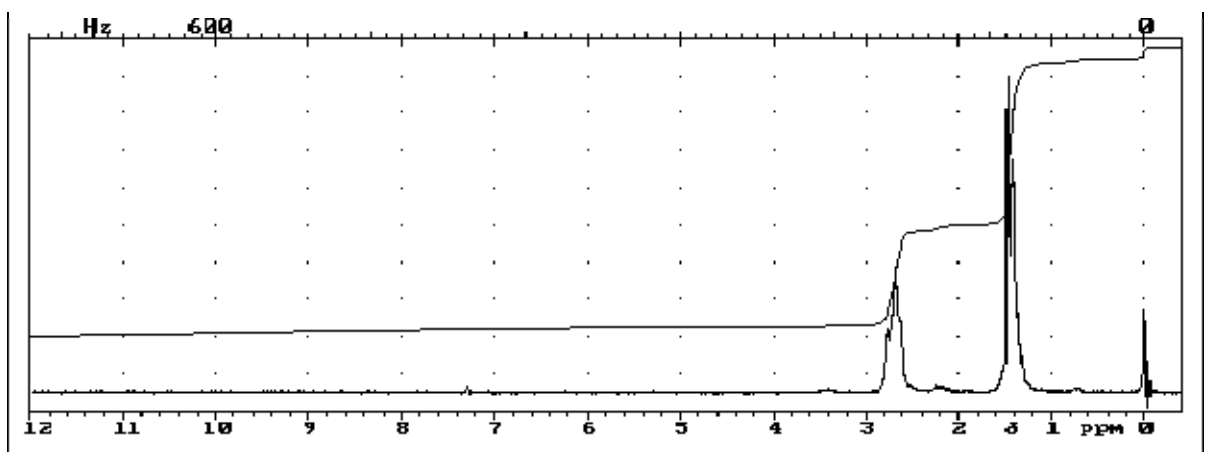
2. MS-Spektrum



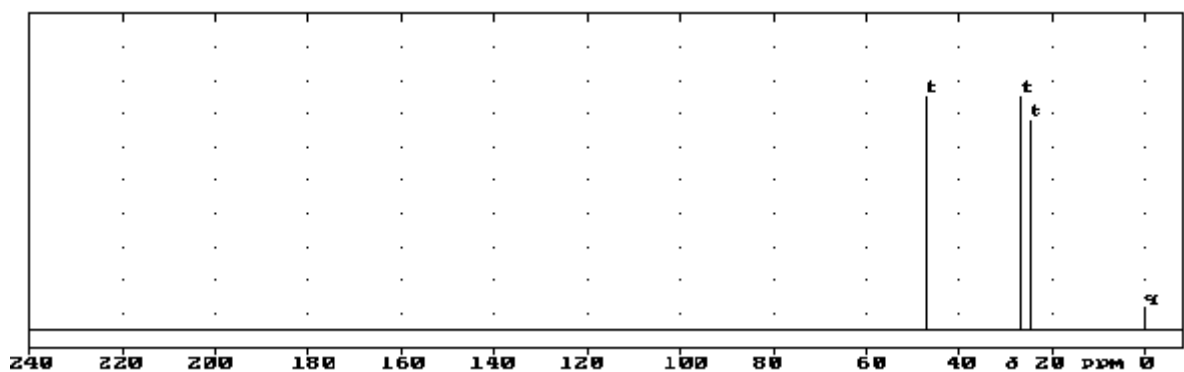
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



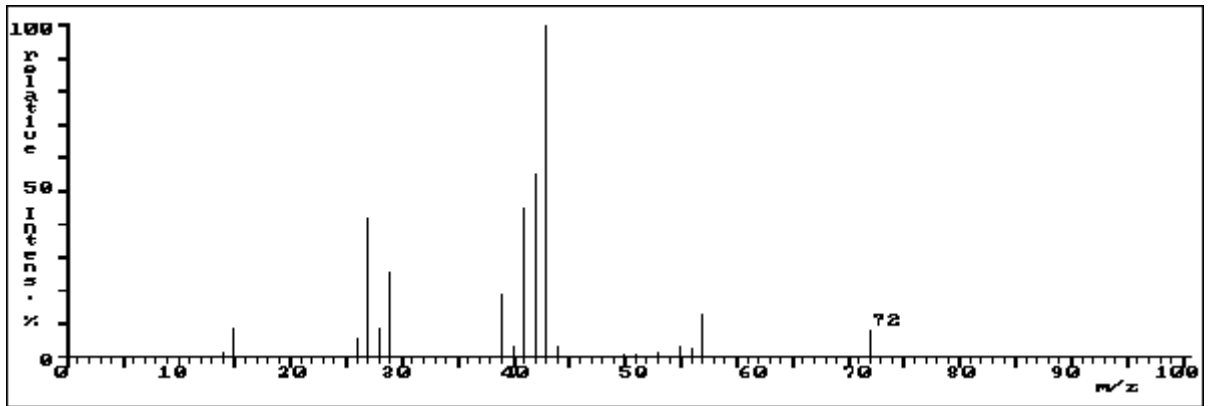
5. <sup>13</sup>C-NMR-Spektrum:



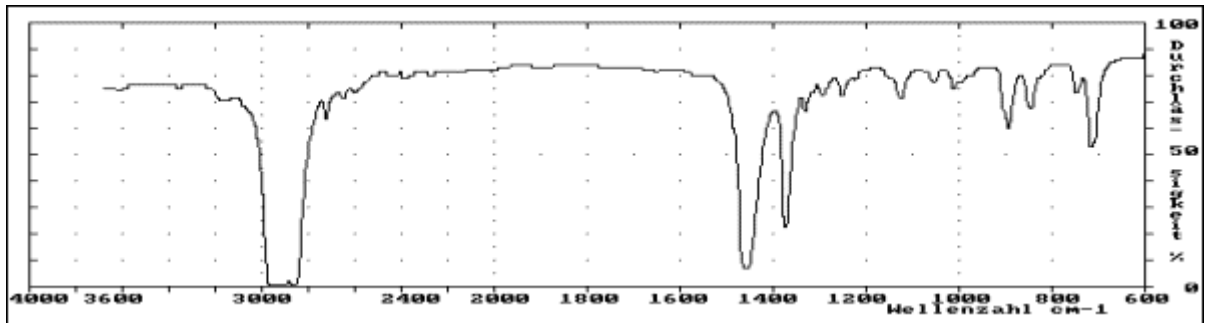
1. Quantitative Analyse:

C: 83.24 %	H: 16.76 %	O:				enthält: C, H
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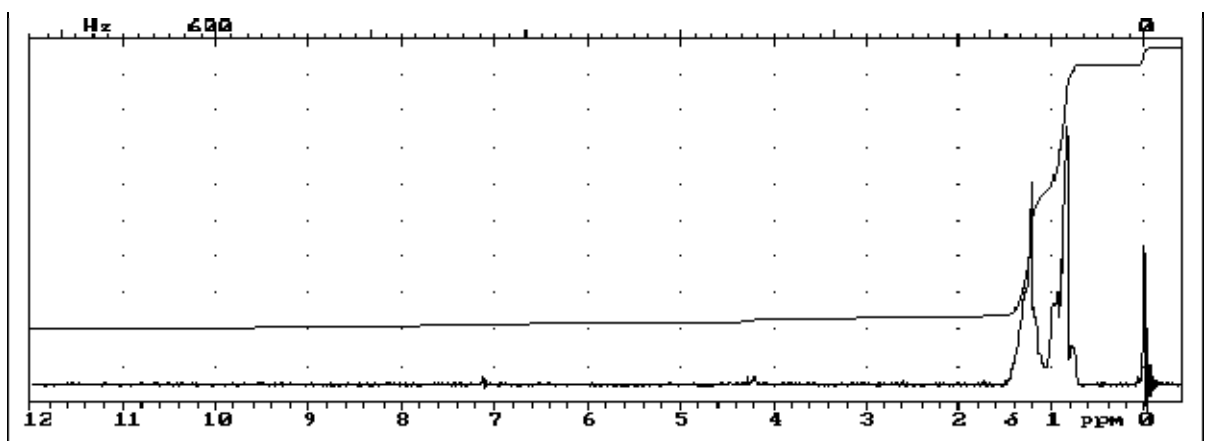
2. MS-Spektrum



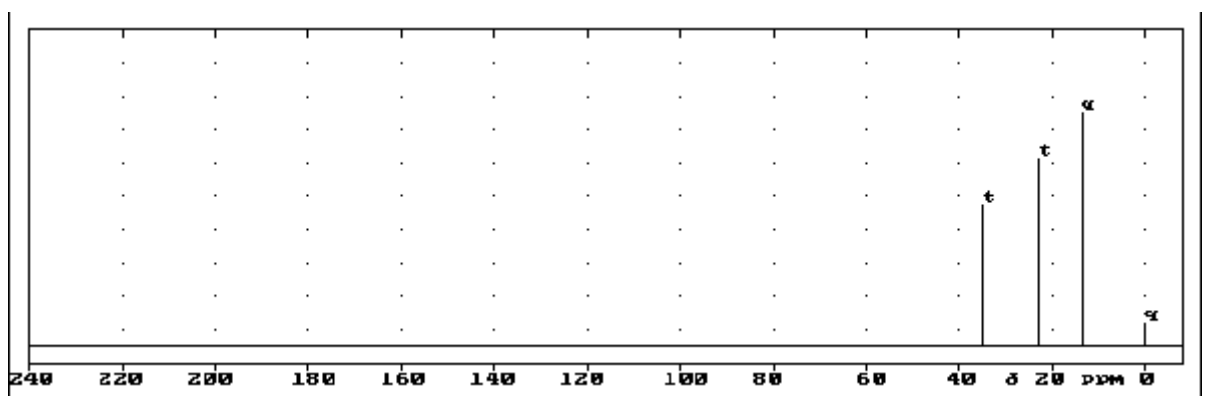
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



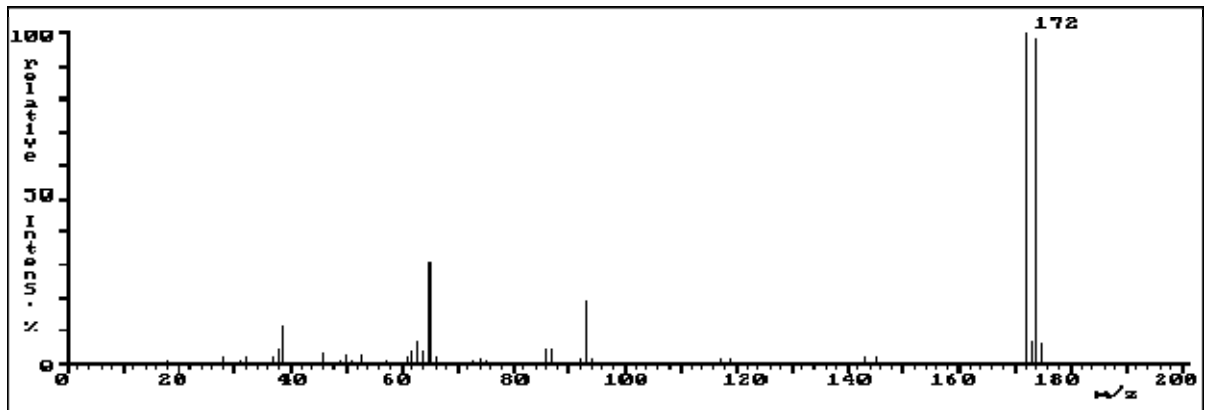
5. <sup>13</sup>C-NMR-Spektrum:



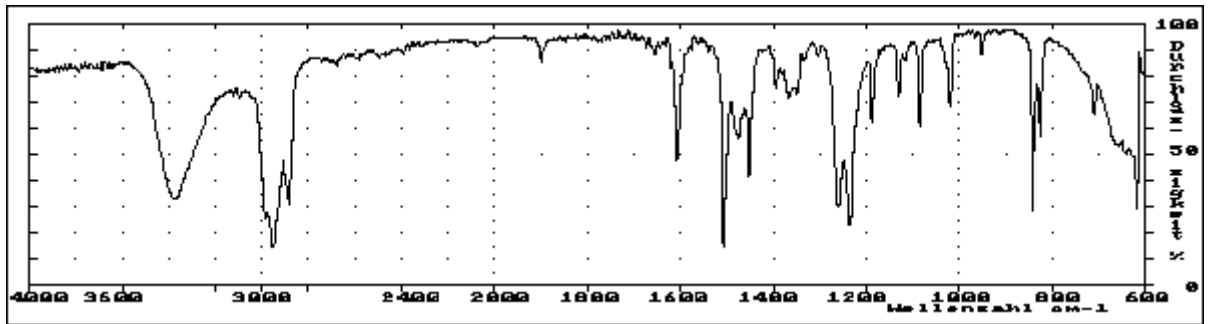
1. Quantitative Analyse:

C: 41.65 %	H: 02.91 %	O:				enthält: C, H, O, Br
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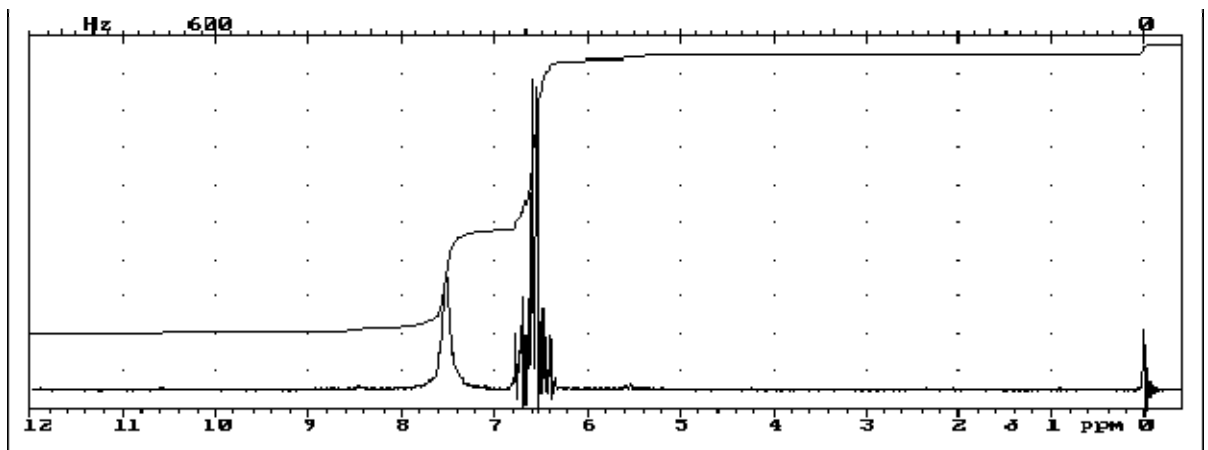
2. MS-Spektrum



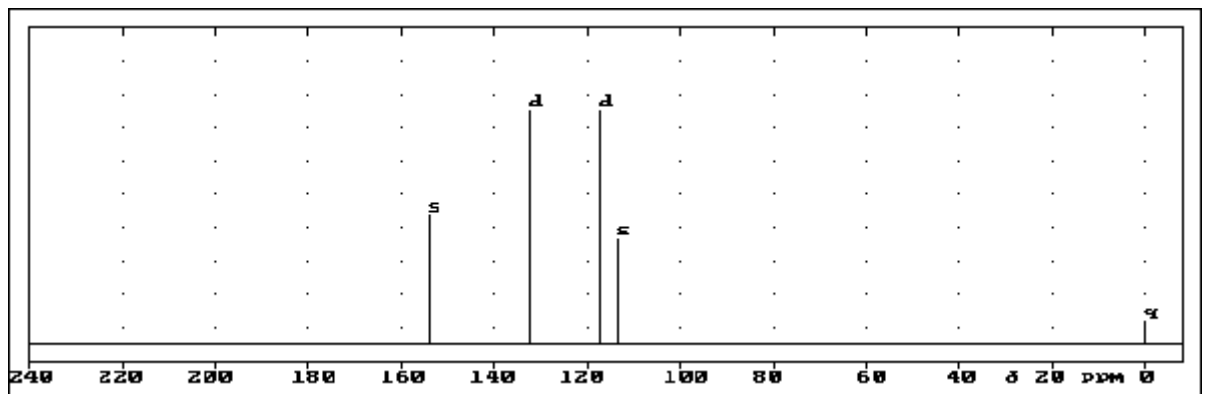
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

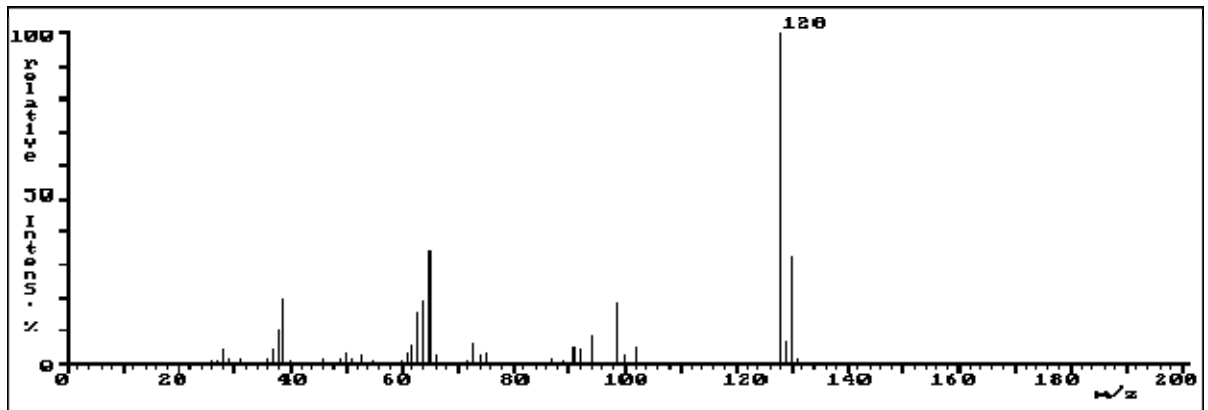




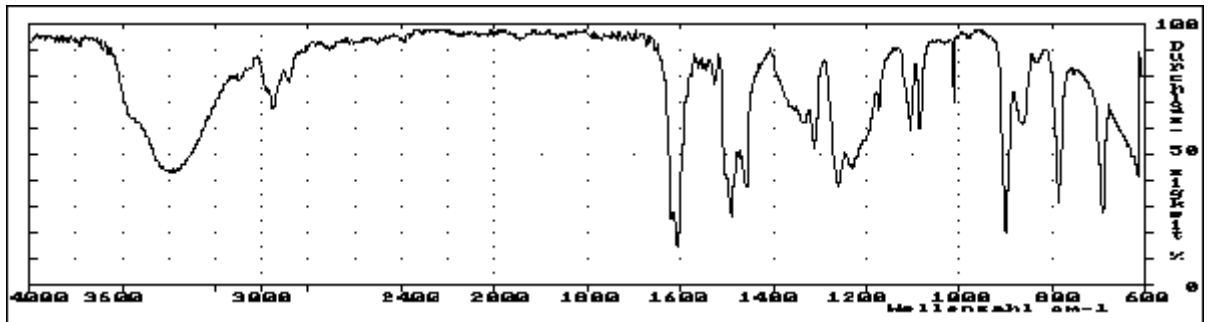
1. Quantitative Analyse:

C: 56.06 %	H: 03.92 %	O:				enthält: C, H, O, Cl
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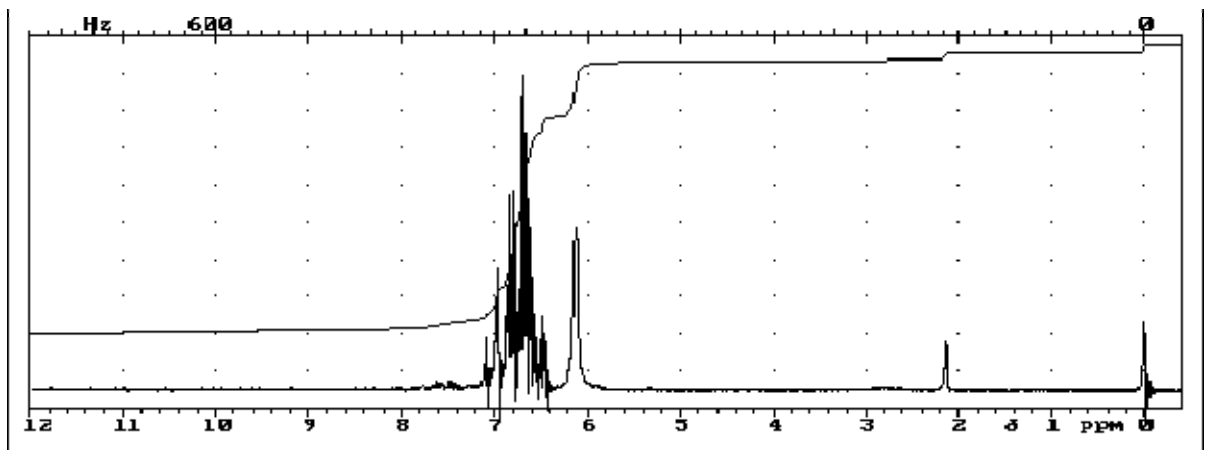
2. MS-Spektrum



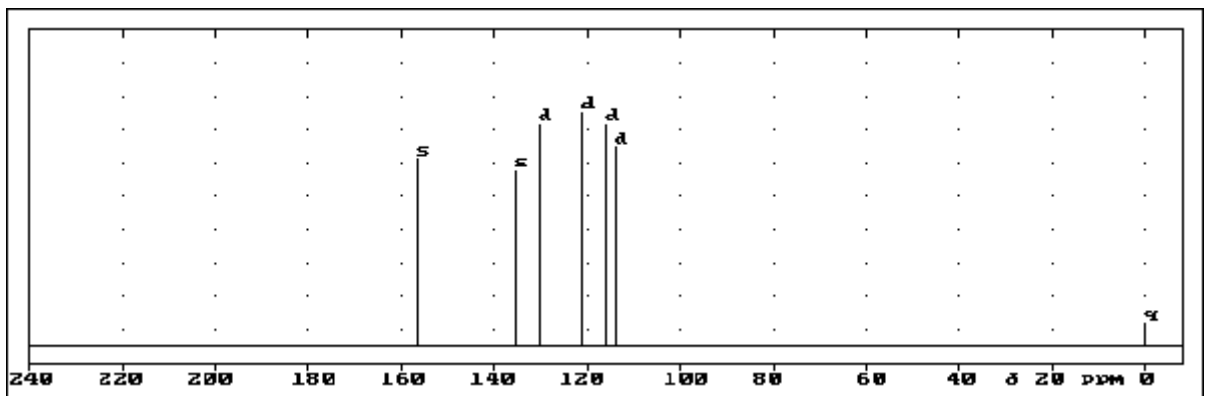
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



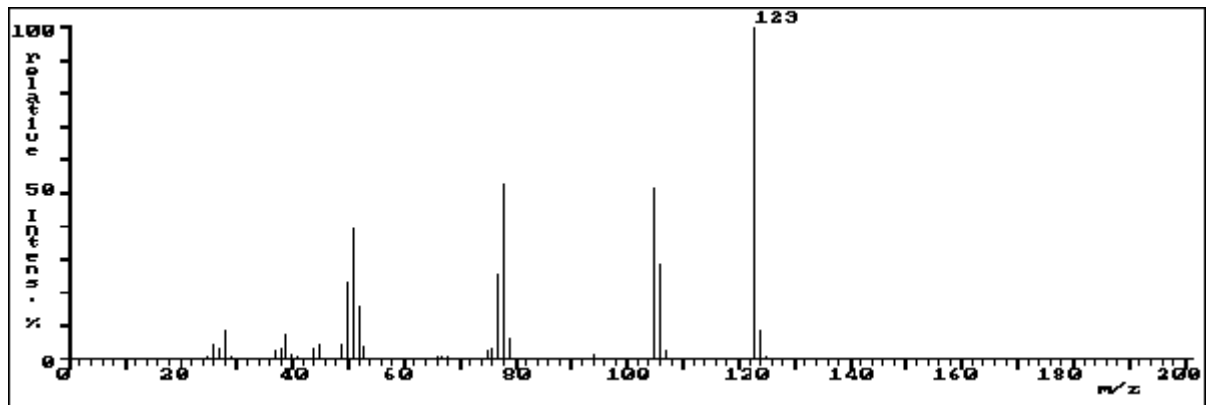
5. <sup>13</sup>C-NMR-Spektrum:



1. Quantitative Analyse:

C: 58.54 %	H: 04.09 %	O:				enthält: C, H, N, O
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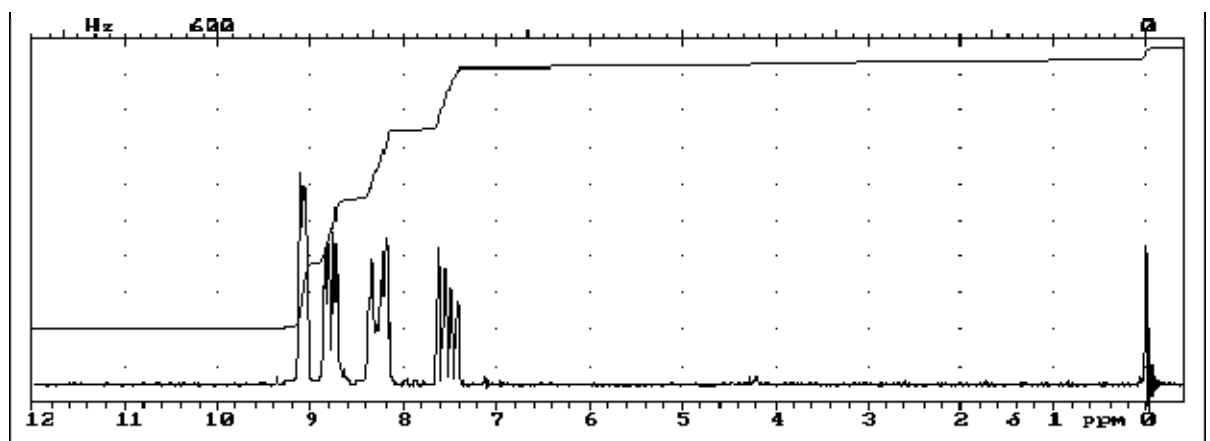
2. MS-Spektrum



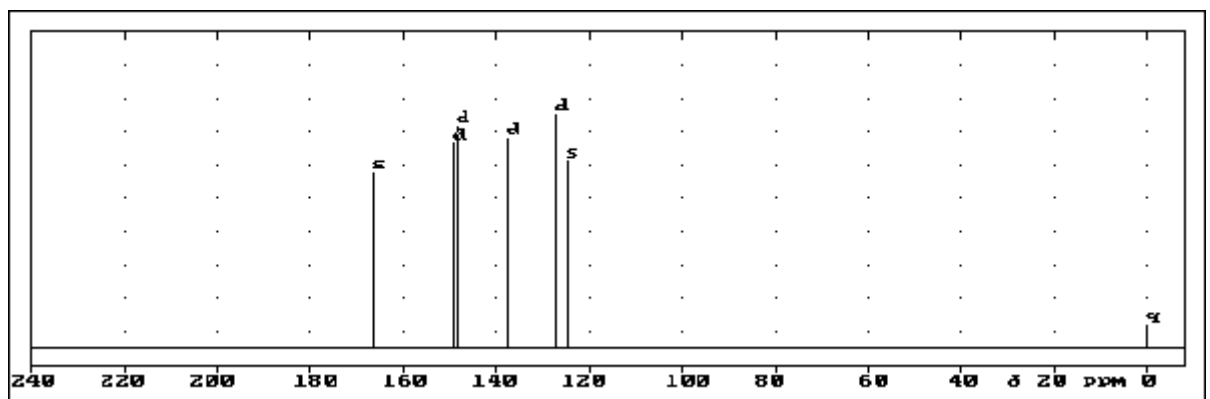
3. IR - Spektrum

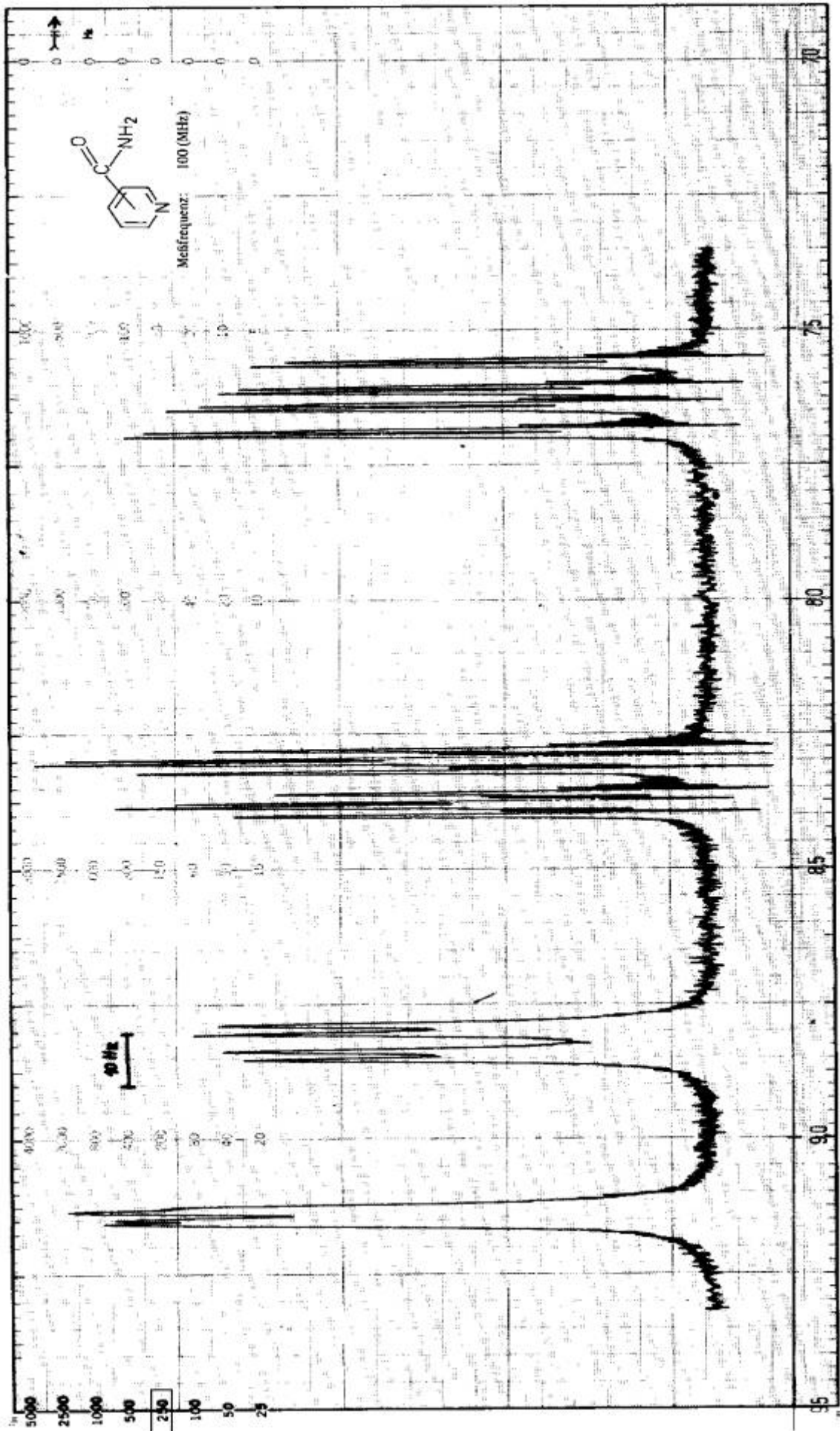


4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

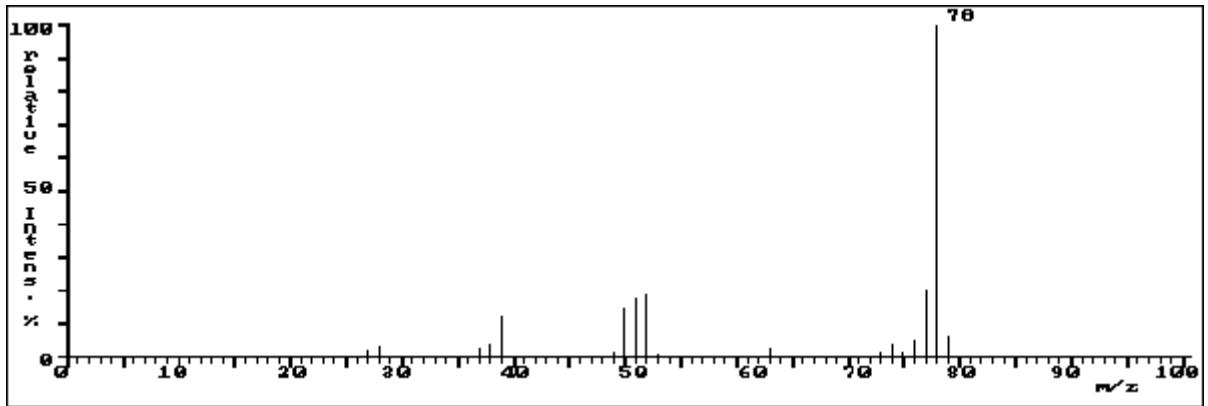




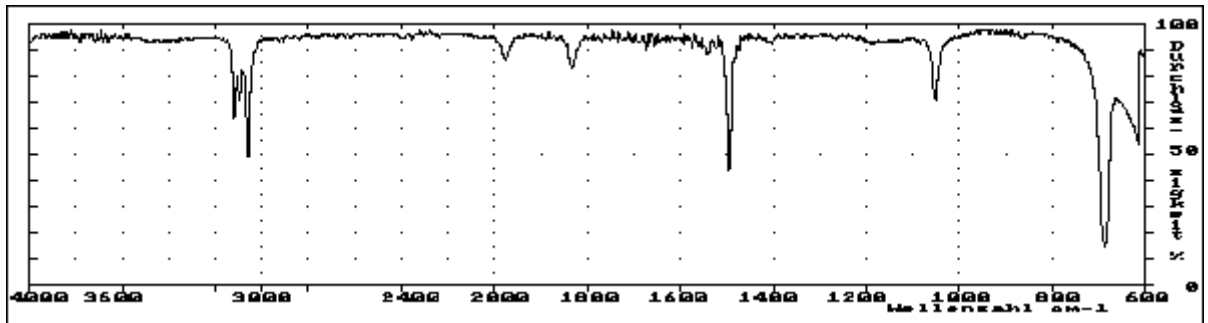
1. Quantitative Analyse:

C: 92.26 %	H: 07.74 %	O:				enthält: C, H
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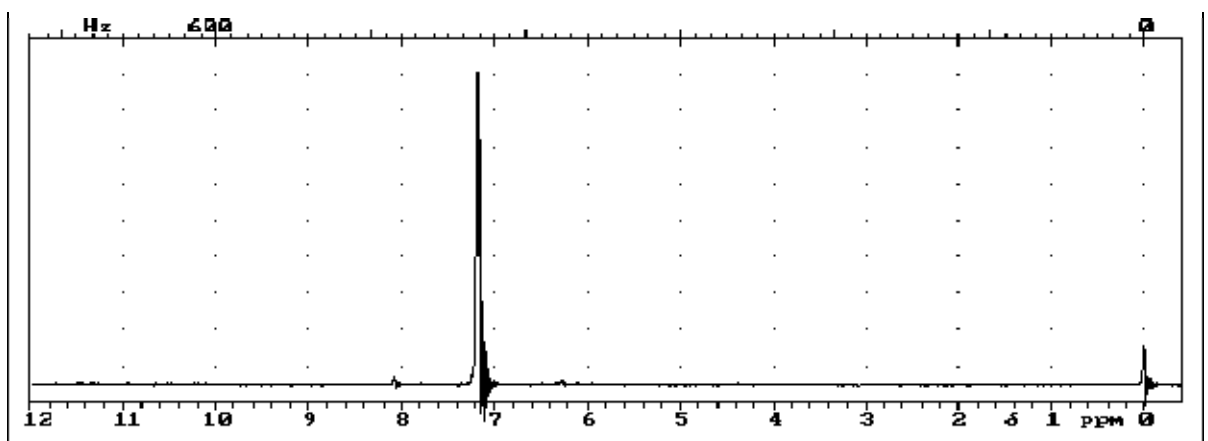
2. MS-Spektrum



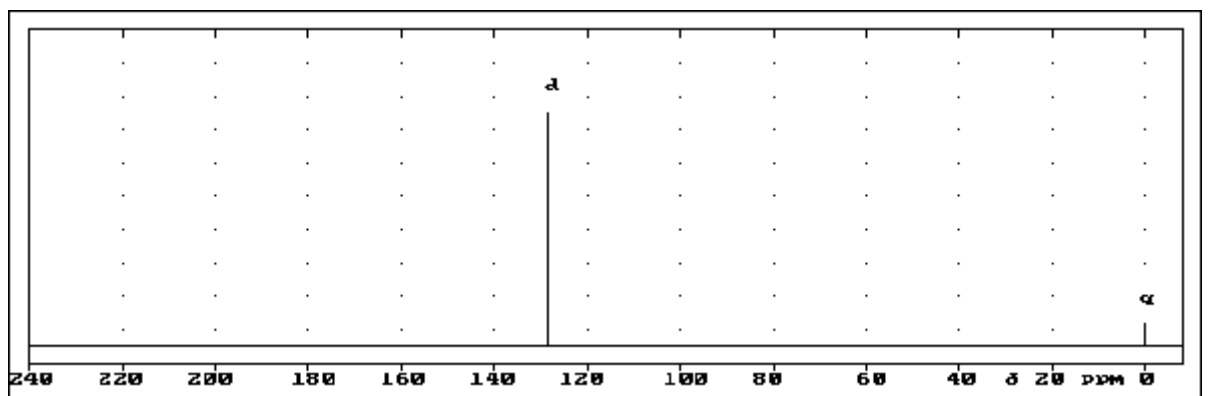
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



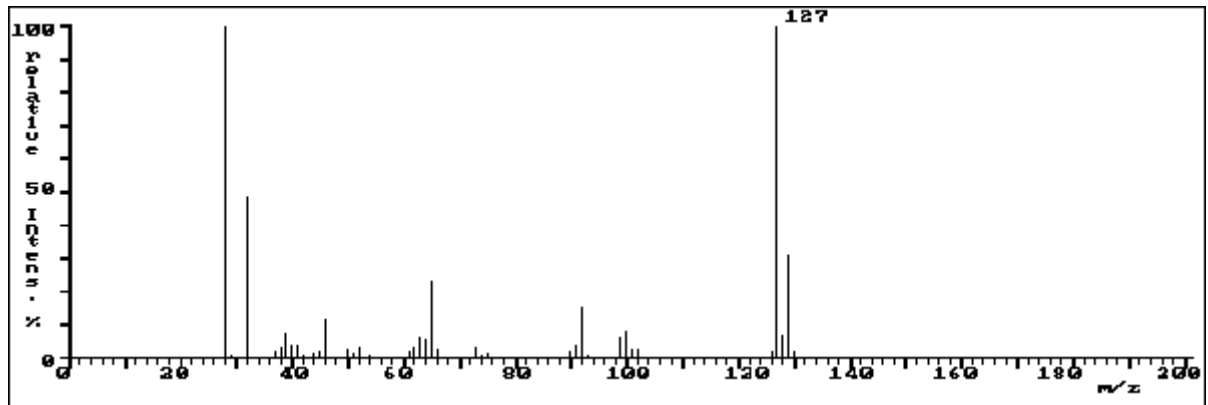
5. <sup>13</sup>C-NMR-Spektrum:



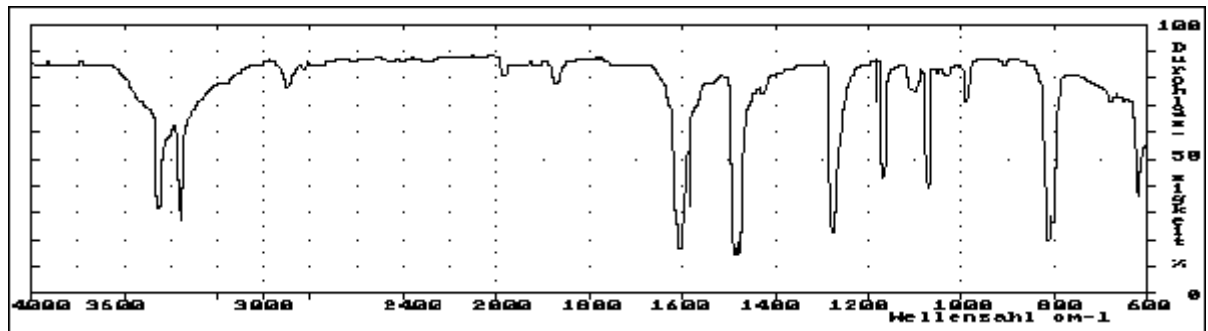
1. Quantitative Analyse:

C: 56.26 %	H: 04.98 %	O:				enthält: C, H, N, Cl
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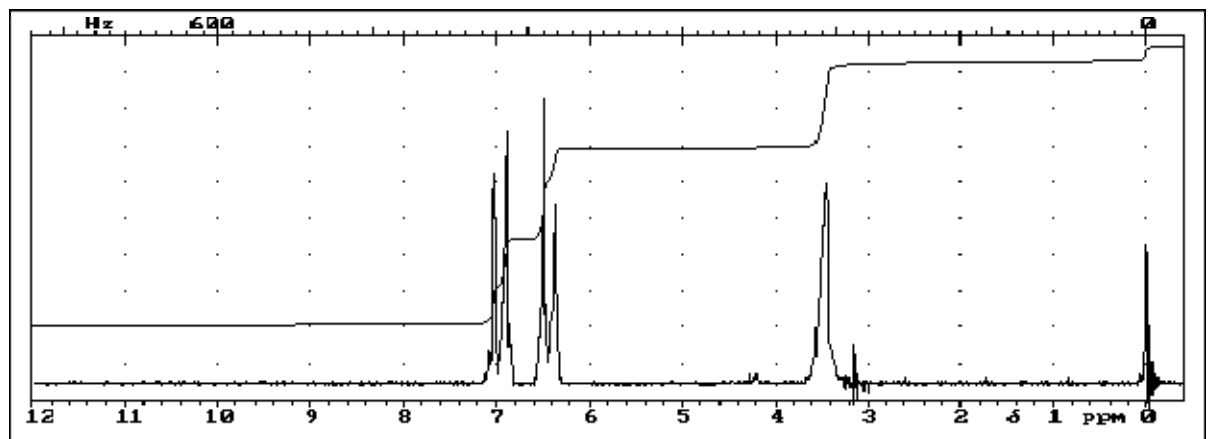
2. MS-Spektrum



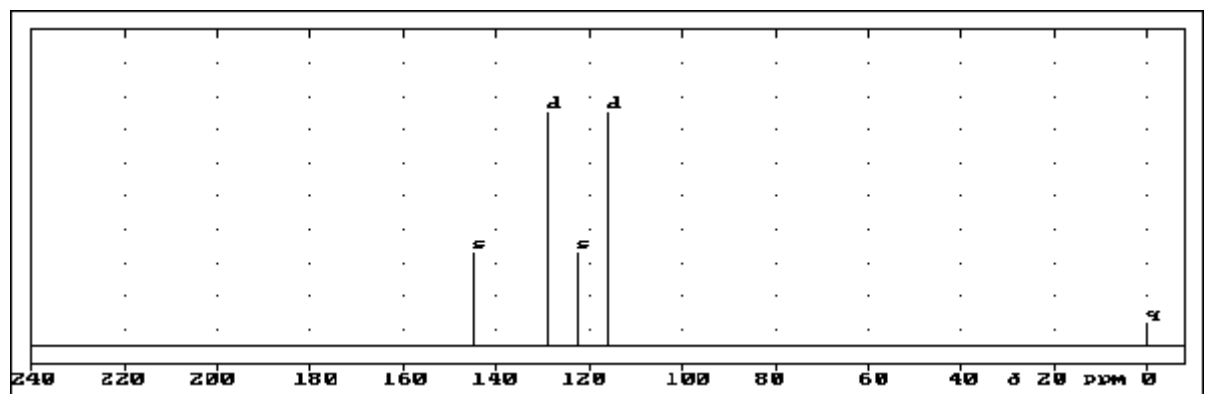
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



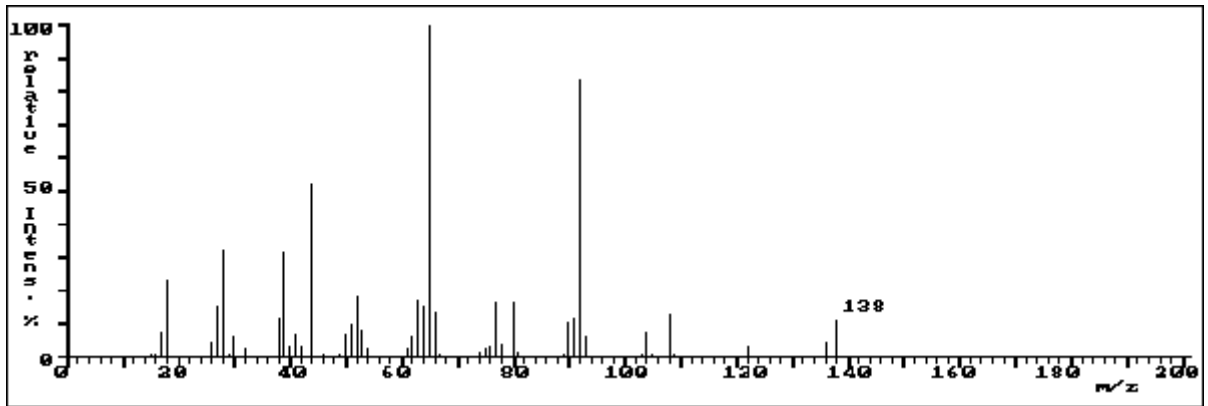
5. <sup>13</sup>C-NMR-Spektrum:



1. Quantitative Analyse:

C: 52.17 %	H: 04.38 %	O:				enthält: C, H, N, O
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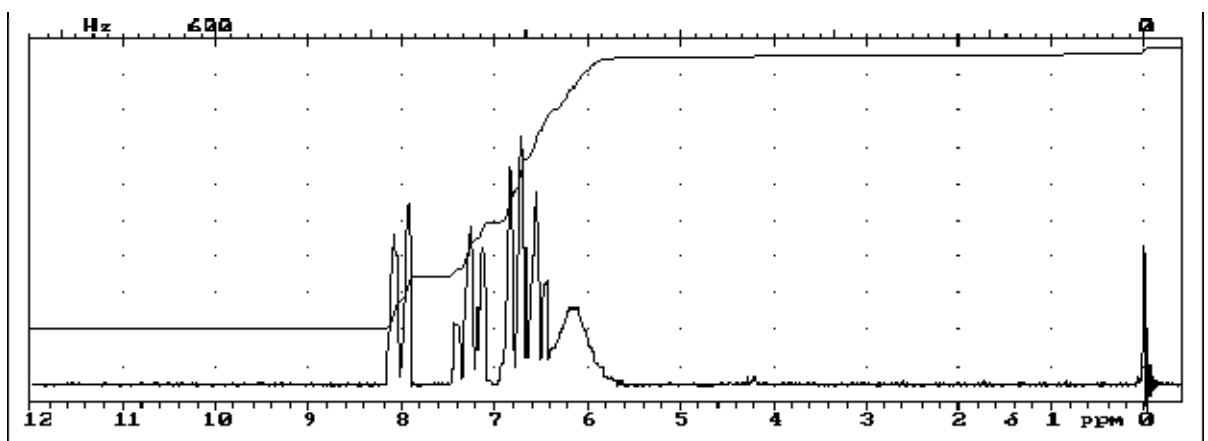
2. MS-Spektrum



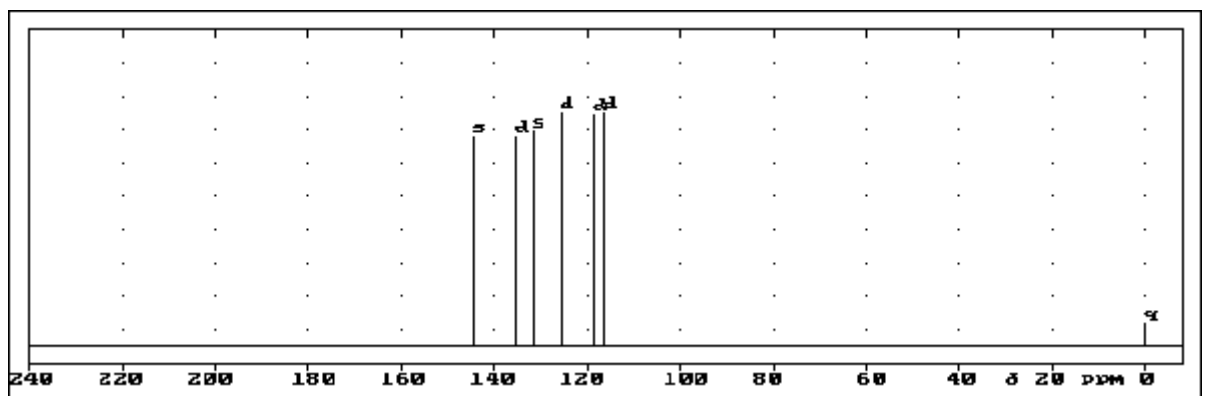
3. IR - Spektrum



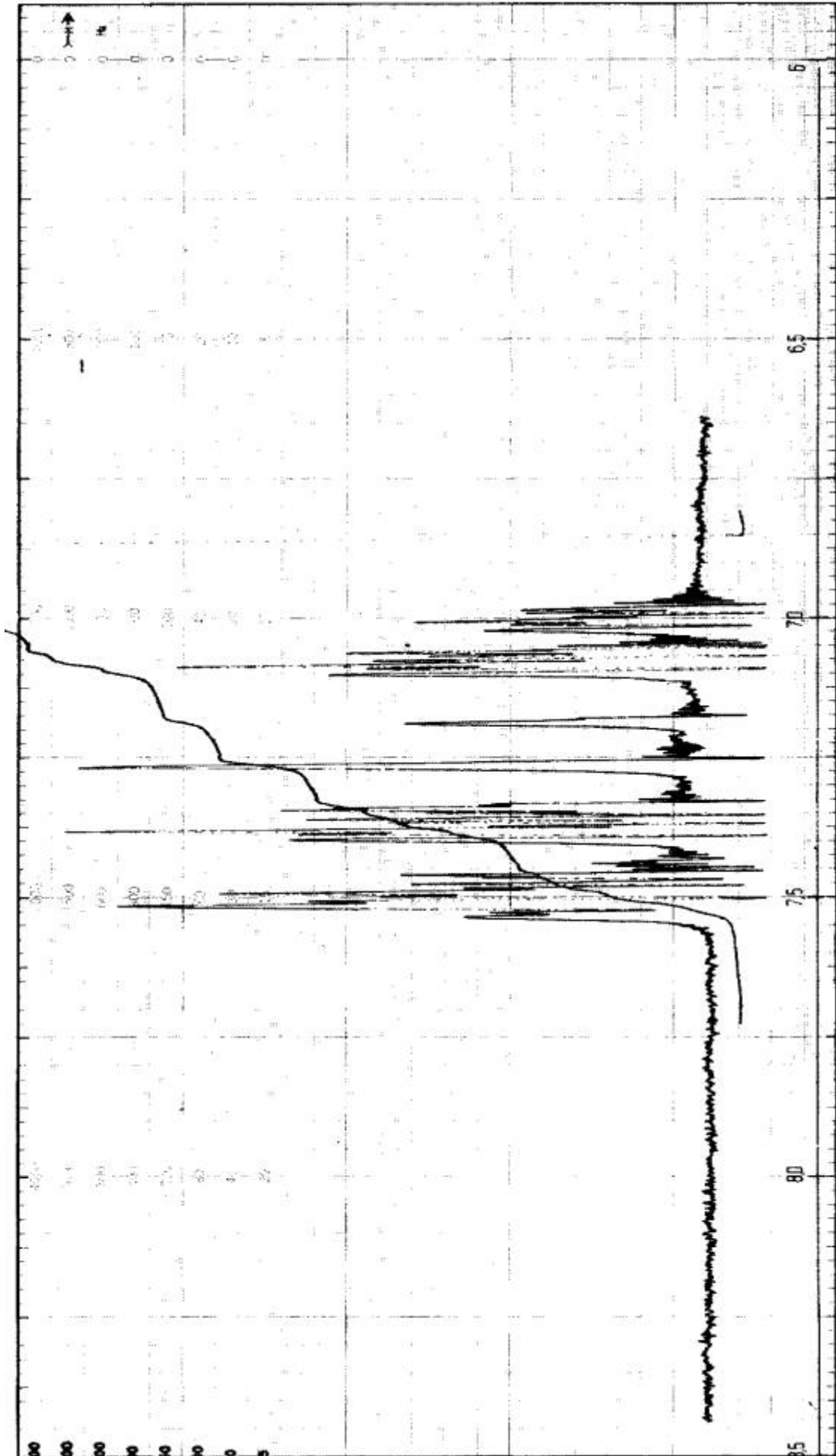
4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:



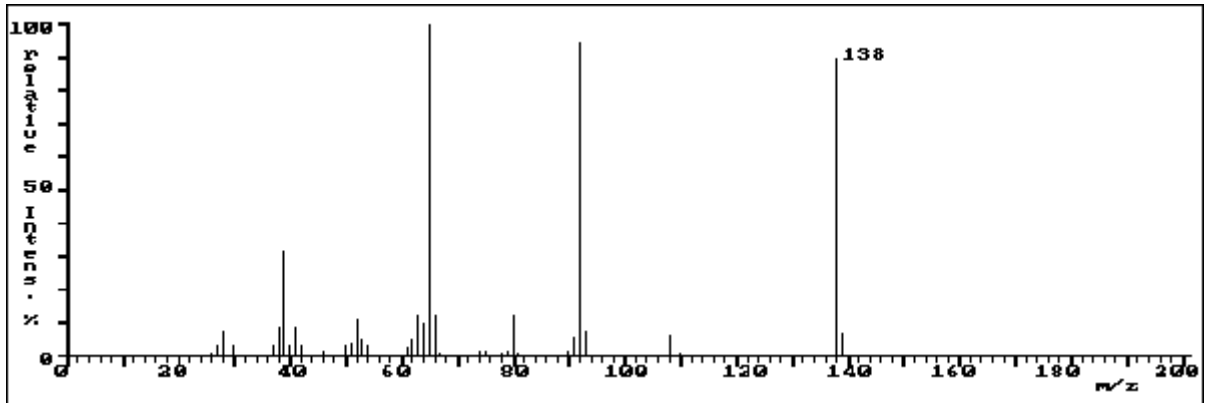
<sup>1</sup>H-NMR-Spektrum Range = 250 Hz, Offset = 600 Hz (Spektrometer 100 MHz) (1mm ^ 1Hz)



1. Quantitative Analyse:

C: 52.17 %	H: 04.38 %	O:				enthält: C, H, O,N
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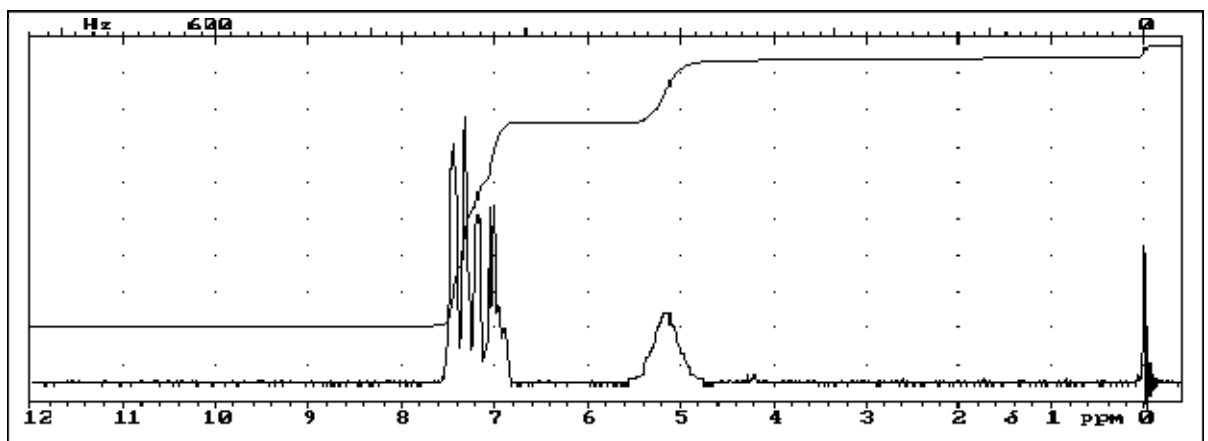
2. MS-Spektrum



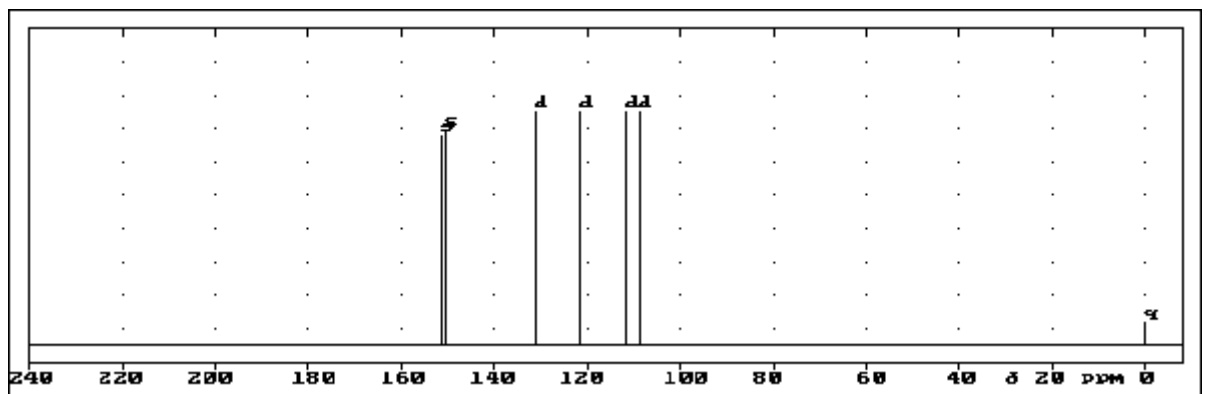
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)

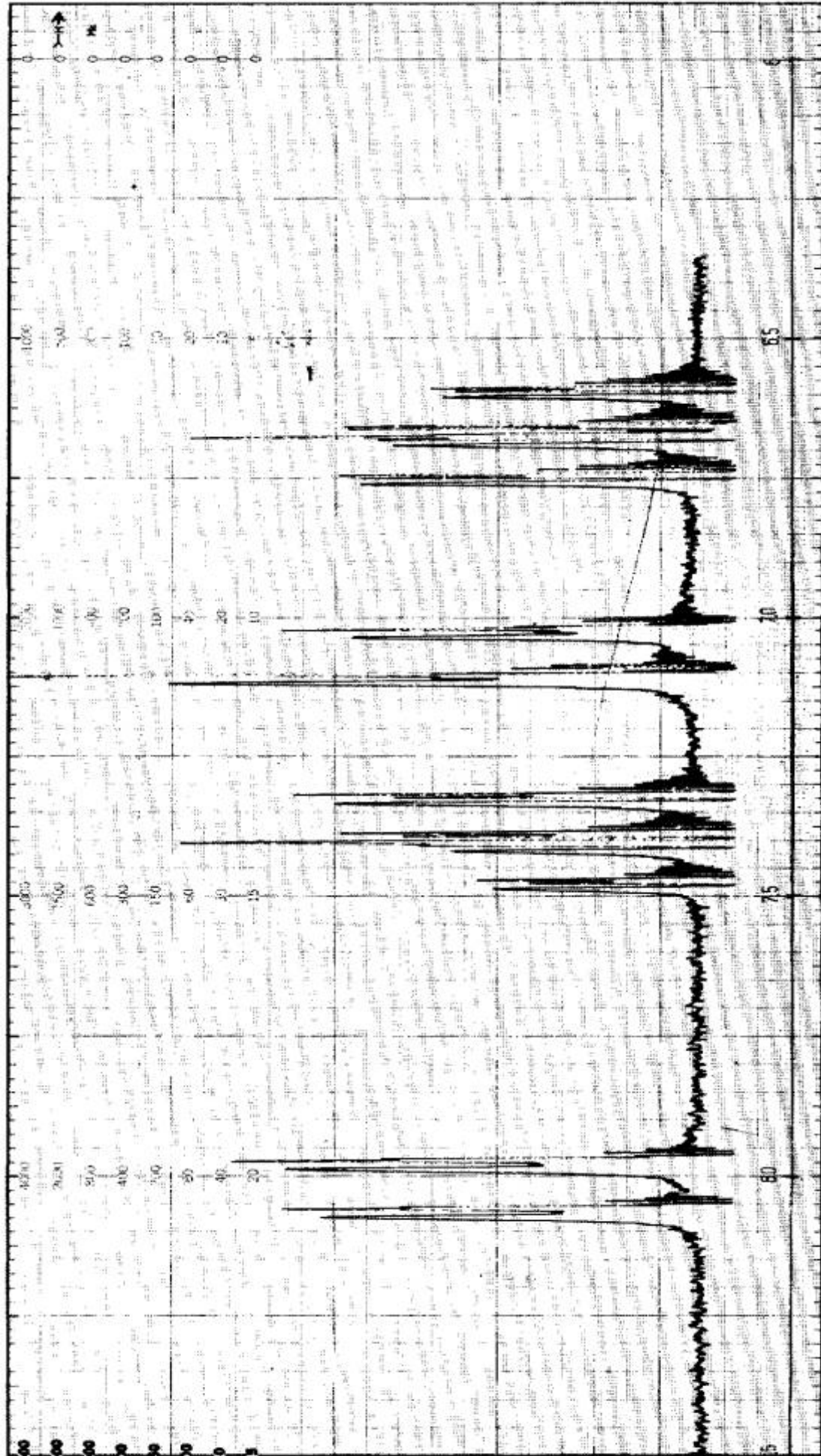


5. <sup>13</sup>C-NMR-Spektrum:





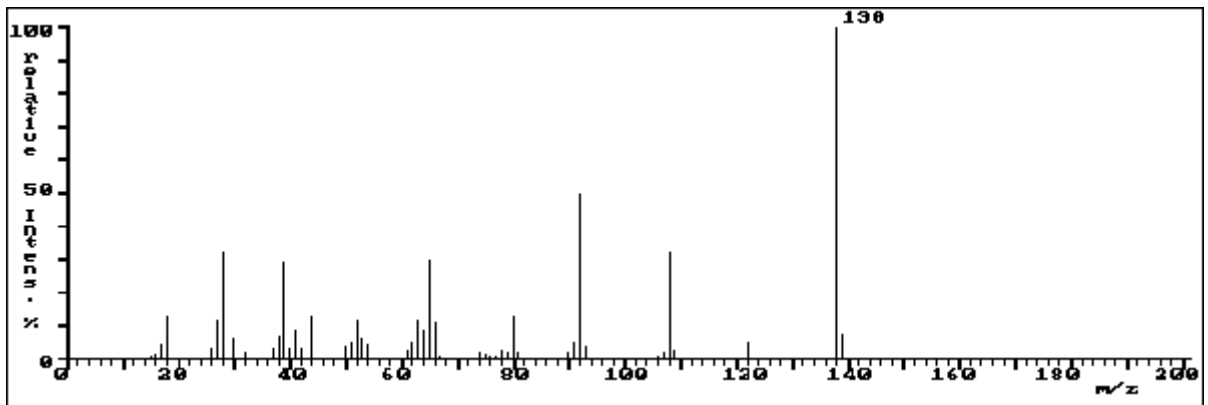
1H-NMR-Spektrum Range = 250 Hz, Offset = 600 Hz (Spektrometer 100 MHz) (1mm ^ 1Hz)



1. Quantitative Analyse:

C: 52.17 %	H: 04.38 %	O:				enthält: C, H, N, O
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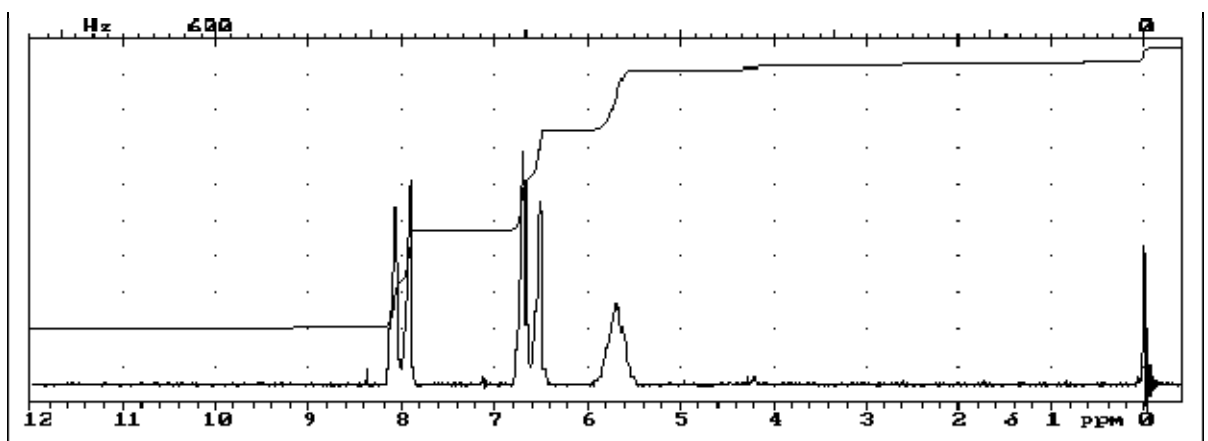
2. MS-Spektrum



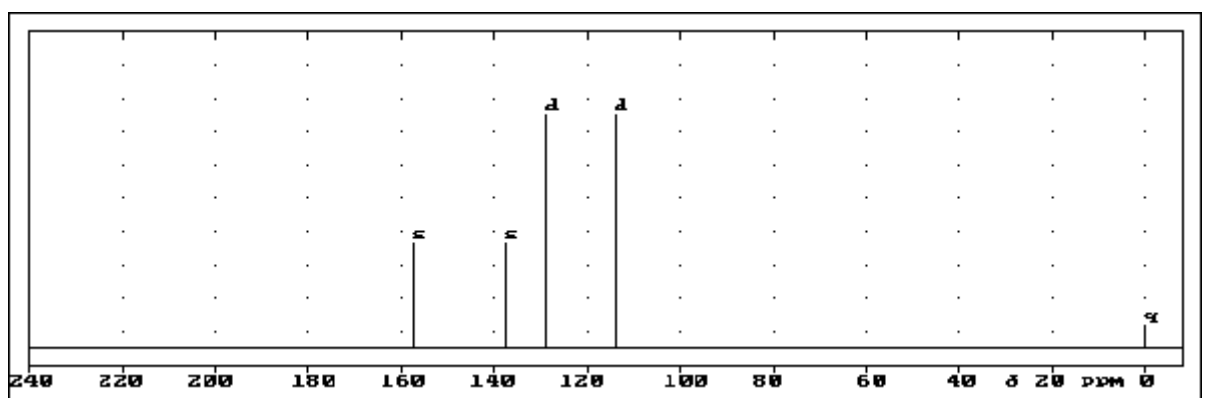
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)

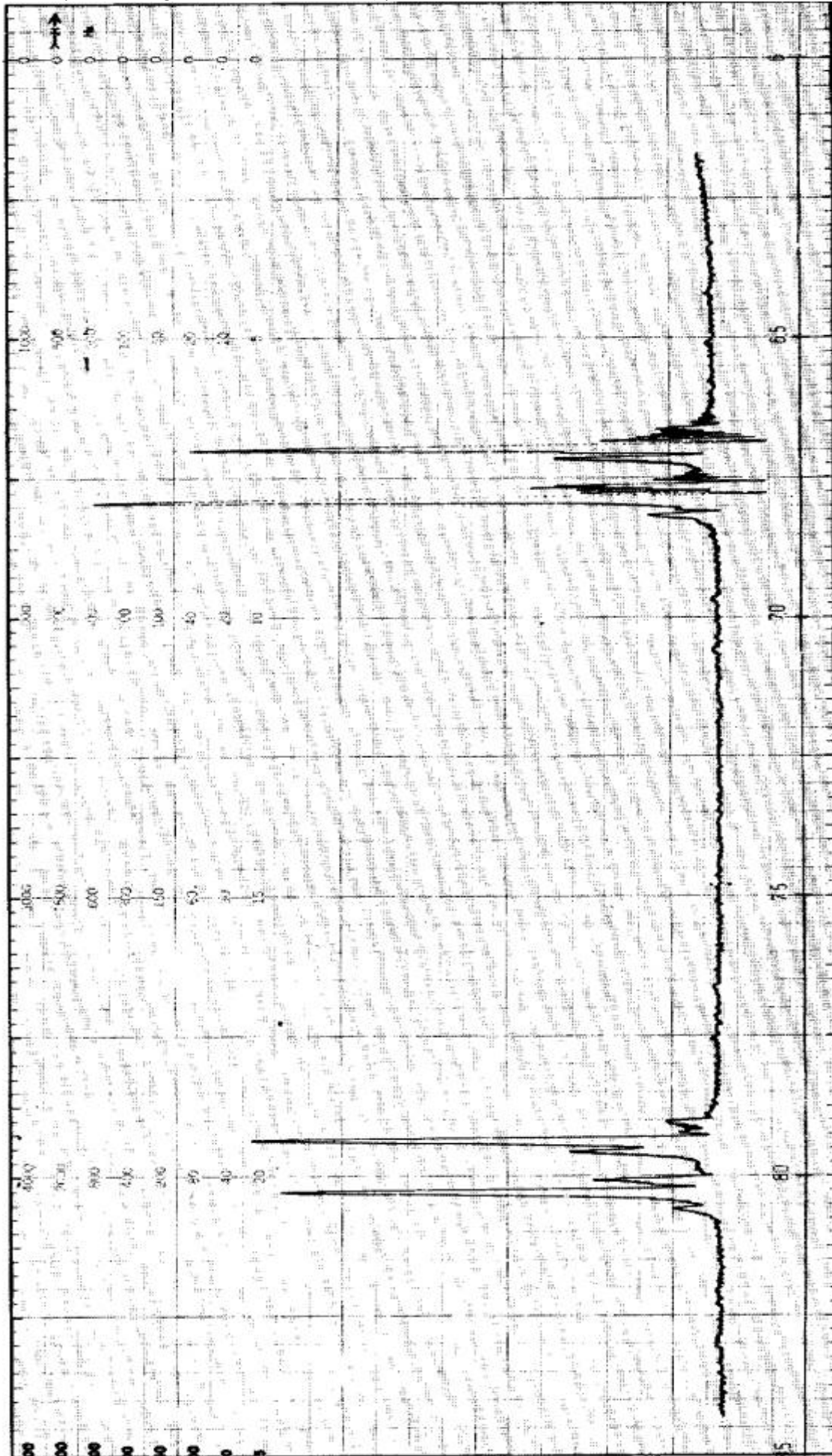


5. <sup>13</sup>C-NMR-Spektrum:





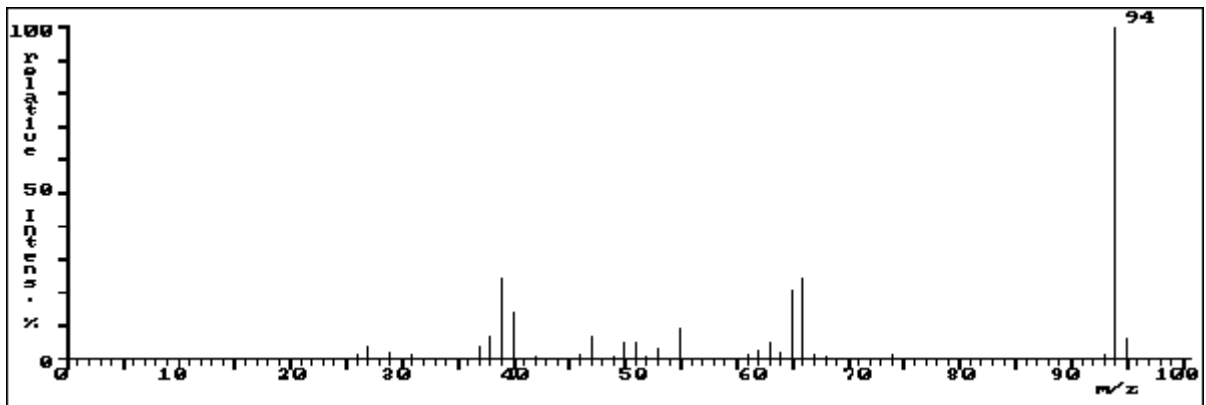
1H-NMR-Spektrum Range = 250 Hz, Offset = 600 Hz (Spektrometer 100 MHz) (1mm ^ 1Hz)



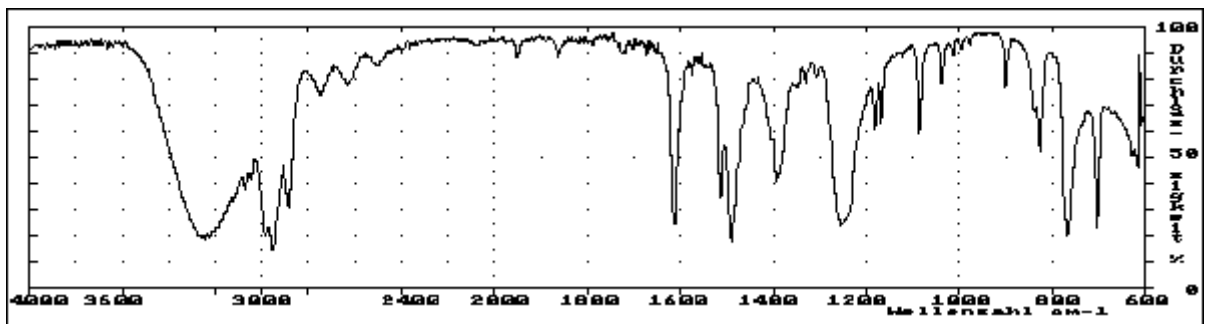
1. Quantitative Analyse:

C: 76.57 %	H: 06.43 %	O:				enthält: C, H, O
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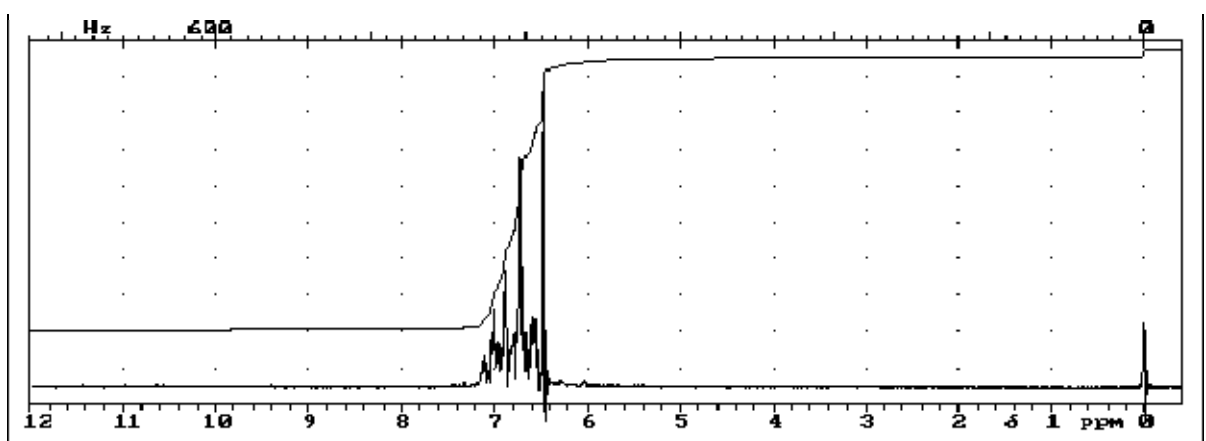
2. MS-Spektrum



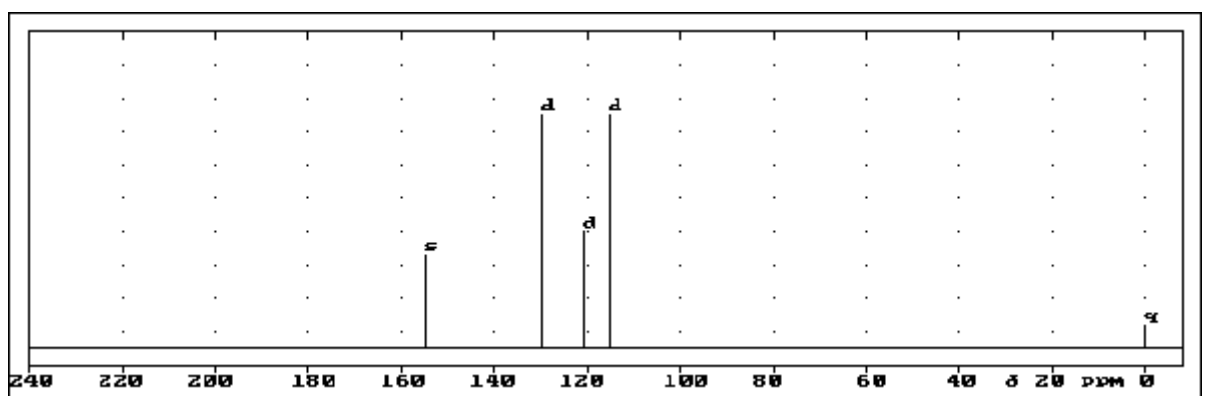
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



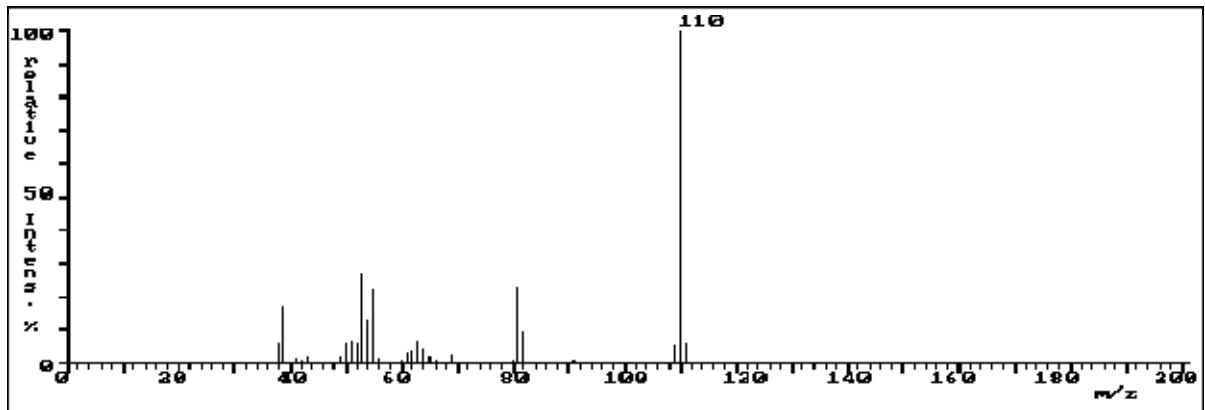
5. <sup>13</sup>C-NMR-Spektrum:



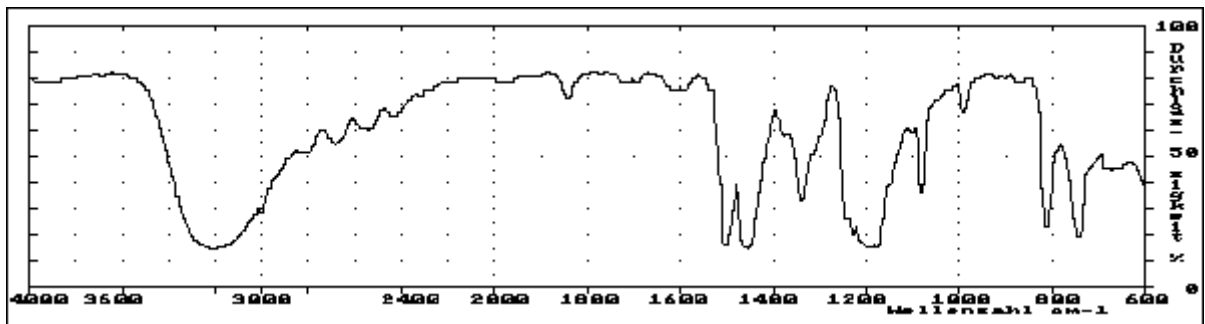
1. Quantitative Analyse:

C: 65.18 %	H: 05.63 %	O:				enthält: C, H, O
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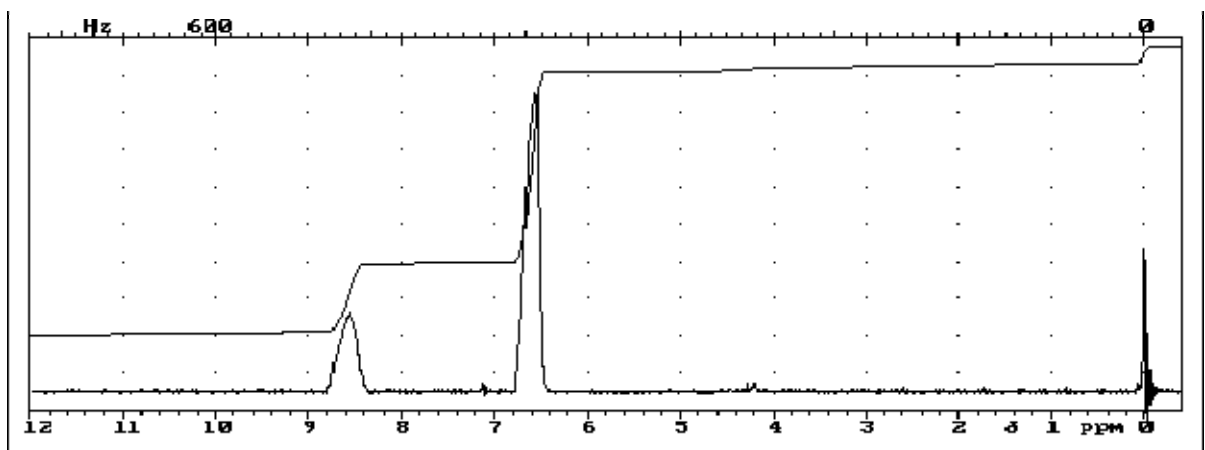
2. MS-Spektrum



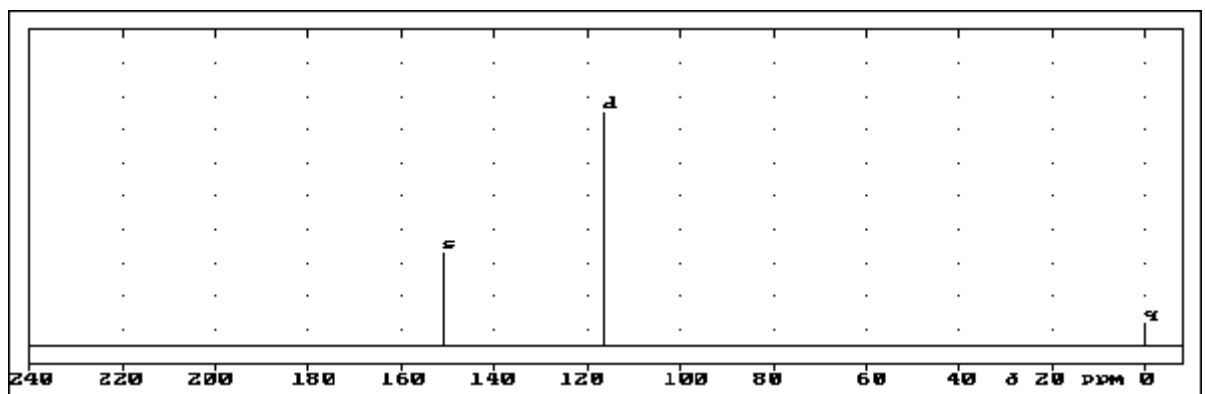
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



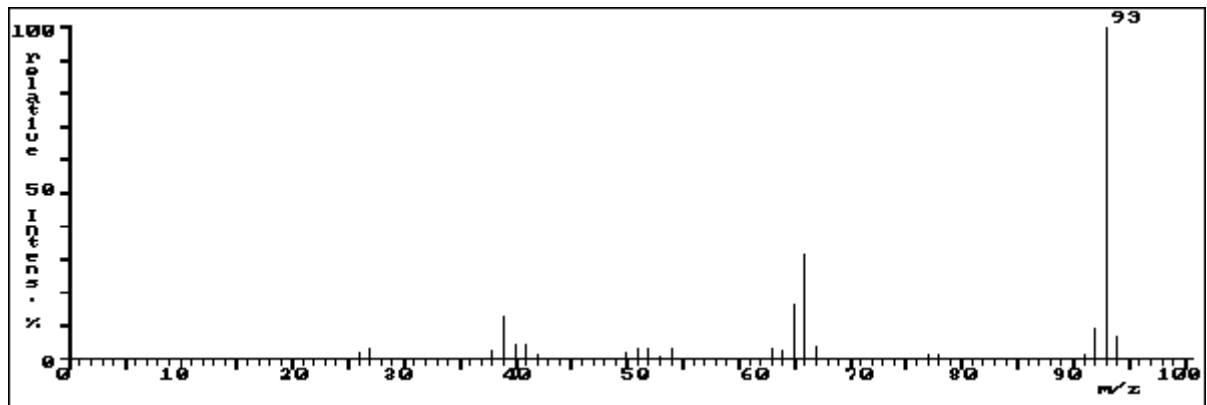
5. <sup>13</sup>C-NMR-Spektrum:



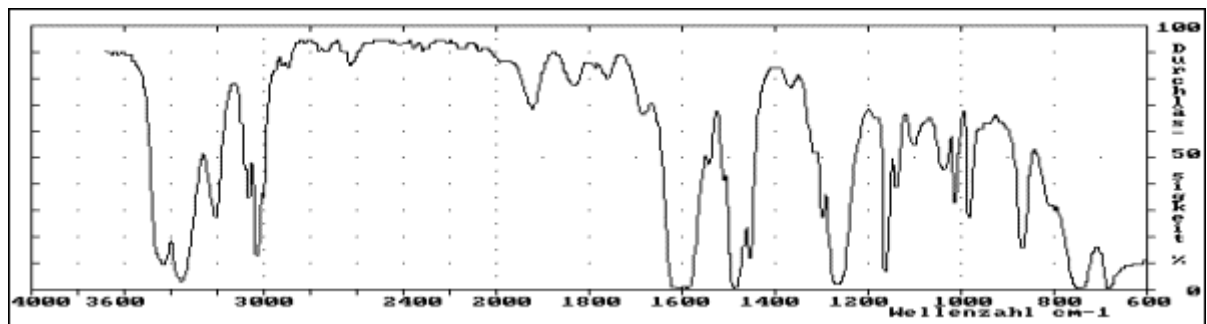
1. Quantitative Analyse:

C: 77.38 %	H: 07.58 %	O:				enthält: C, H, N
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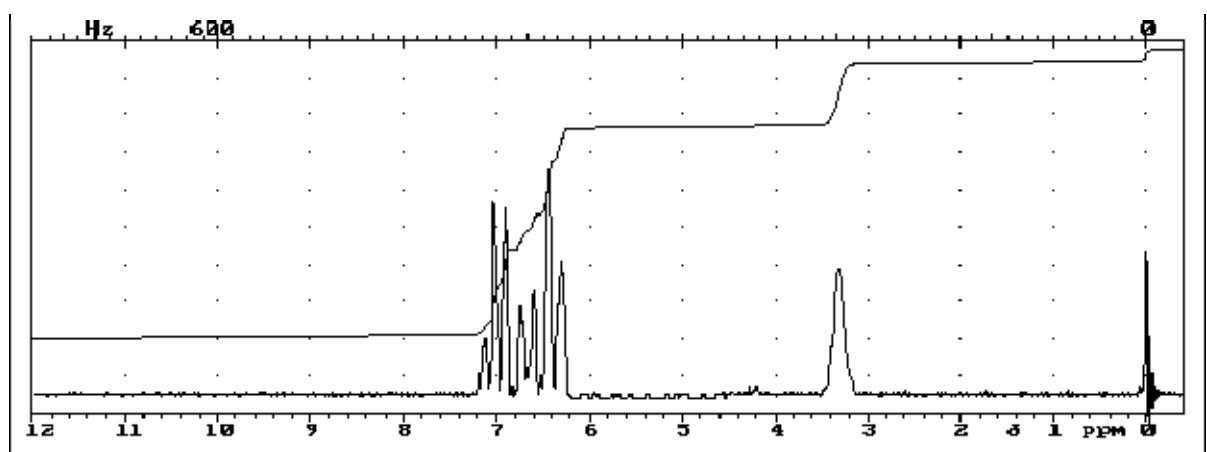
2. MS-Spektrum



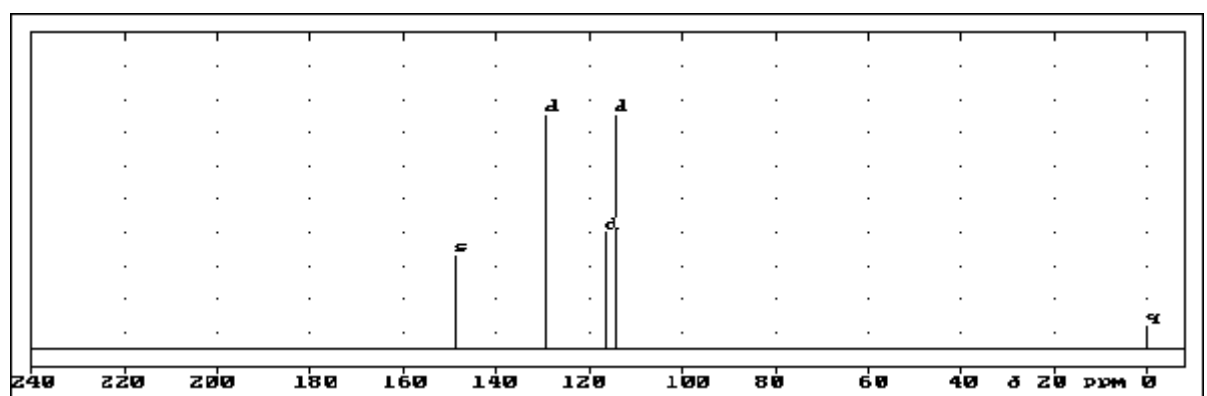
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



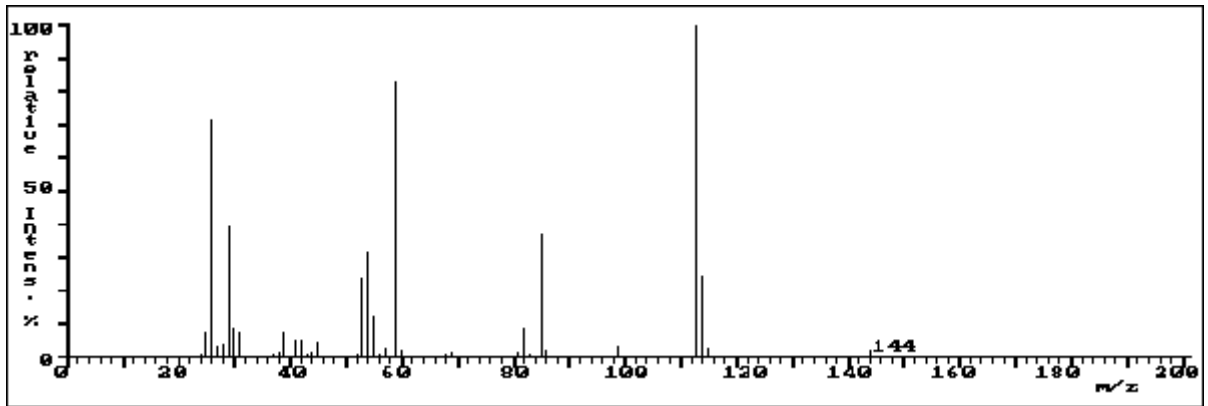
5. <sup>13</sup>C-NMR-Spektrum:



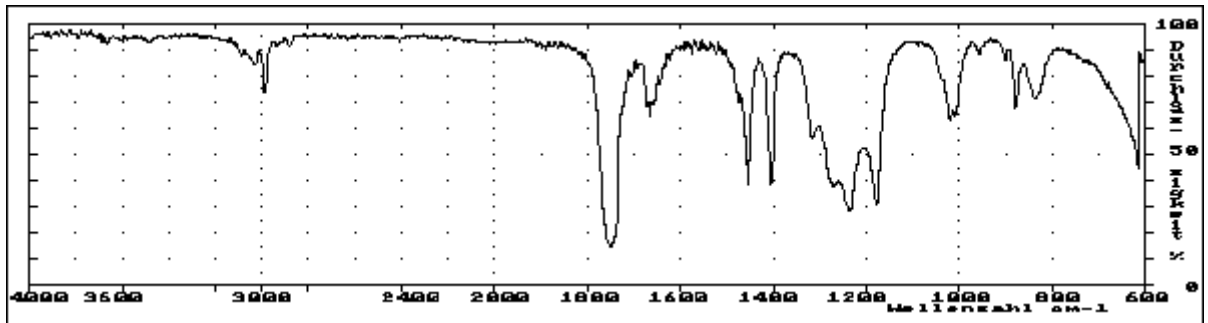
1. Quantitative Analyse:

C: 52.49 %	H: 07.55 %	O:				enthält: C, H
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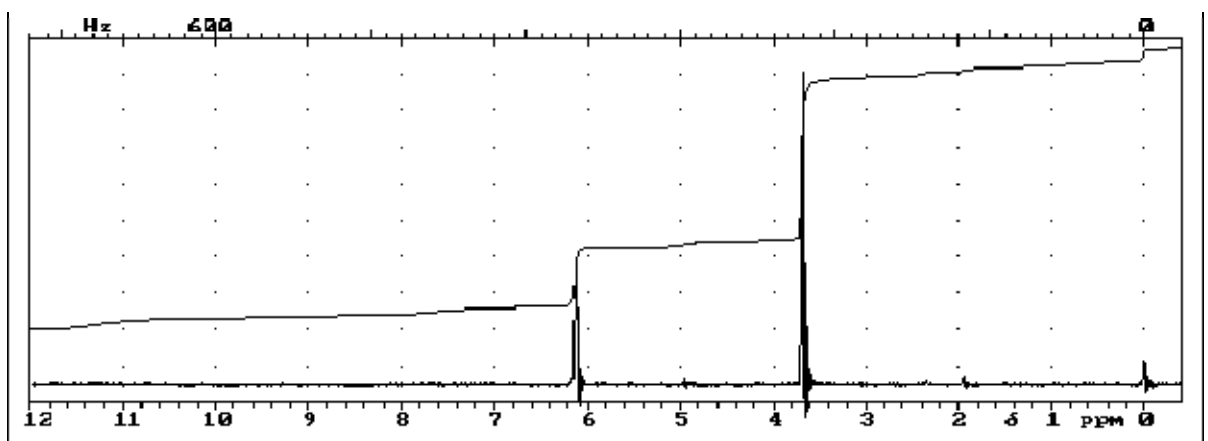
2. MS-Spektrum



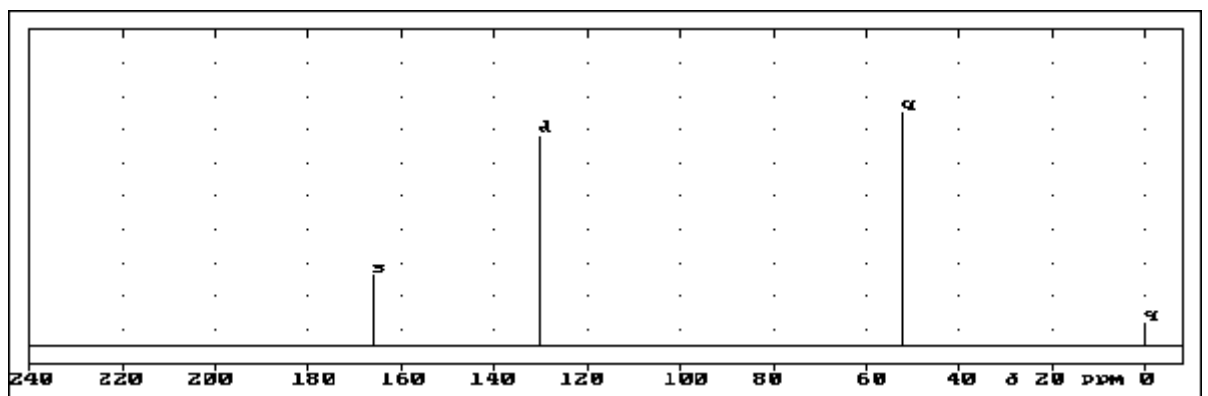
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



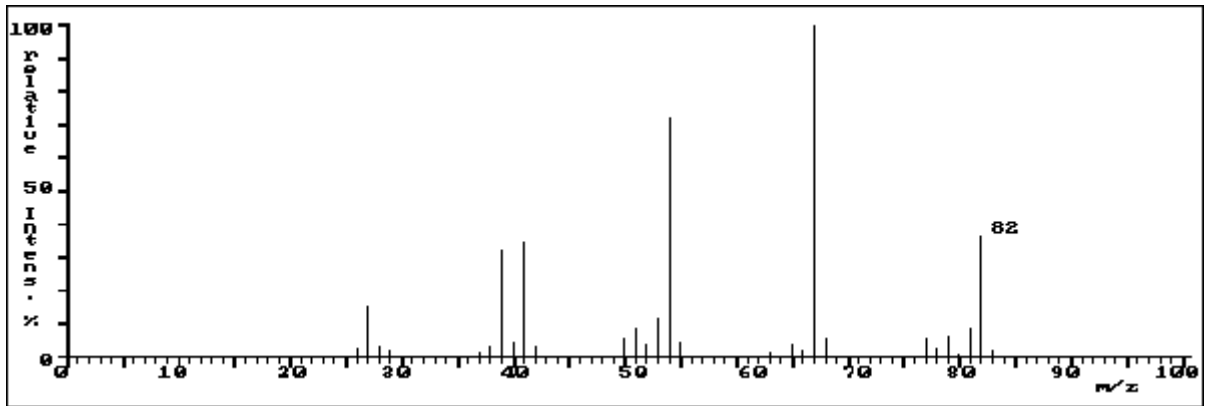
5. <sup>13</sup>C-NMR-Spektrum:



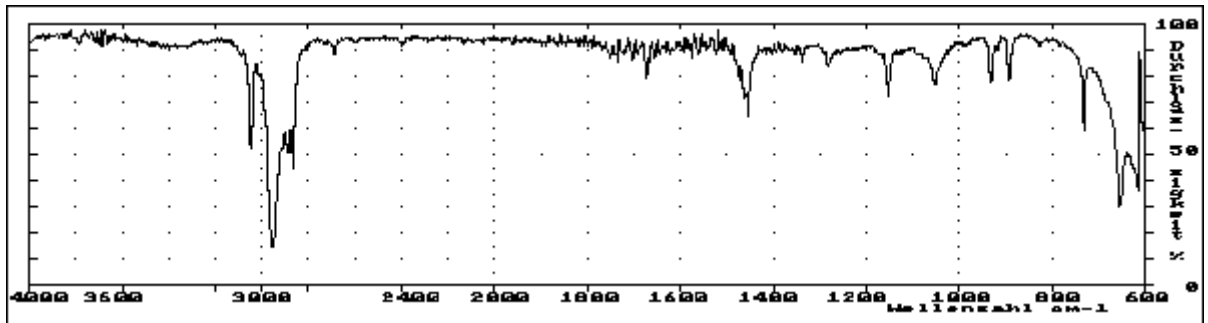
1. Quantitative Analyse:

C: 87.73 %	H: 12.27 %	O:				enthält: C, H
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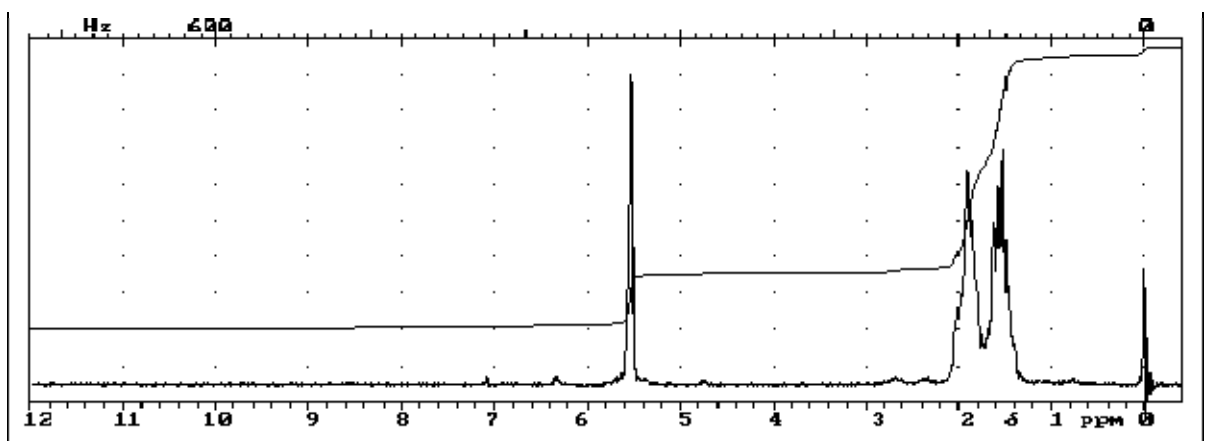
2. MS-Spektrum



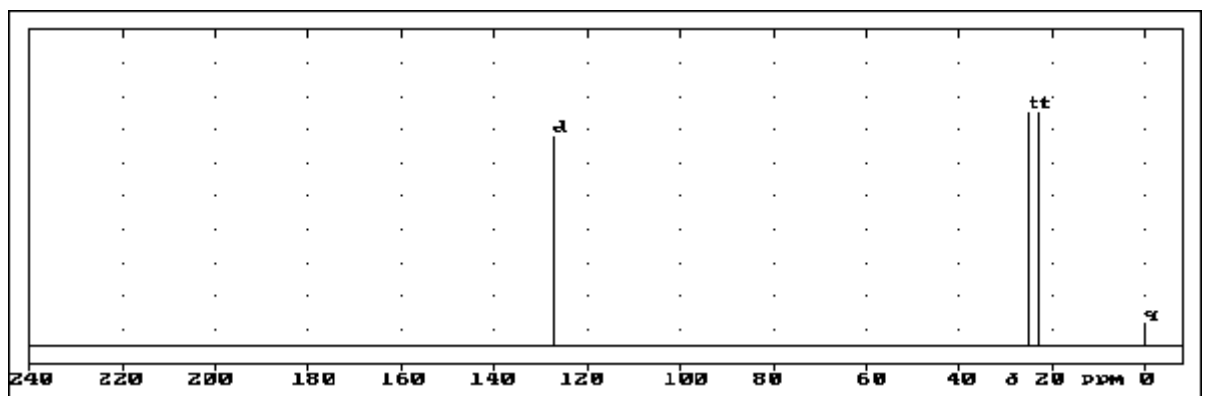
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

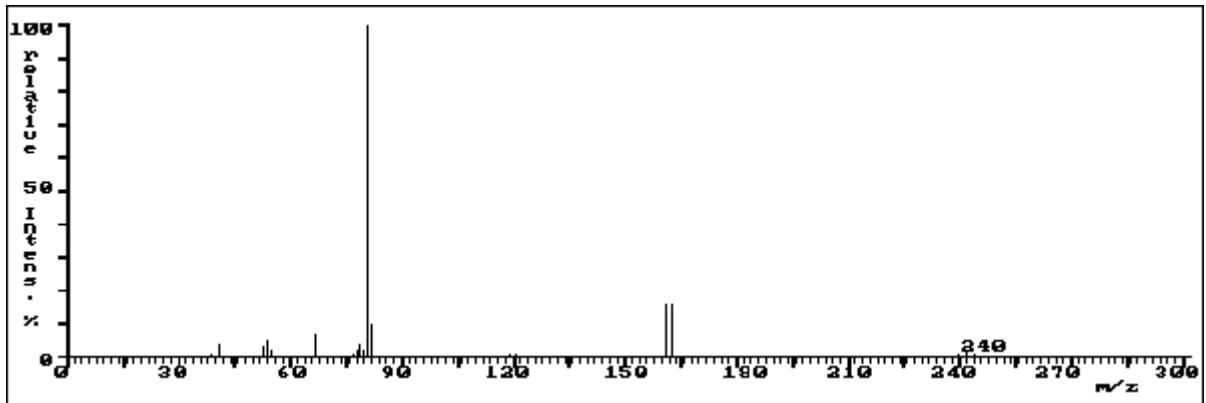




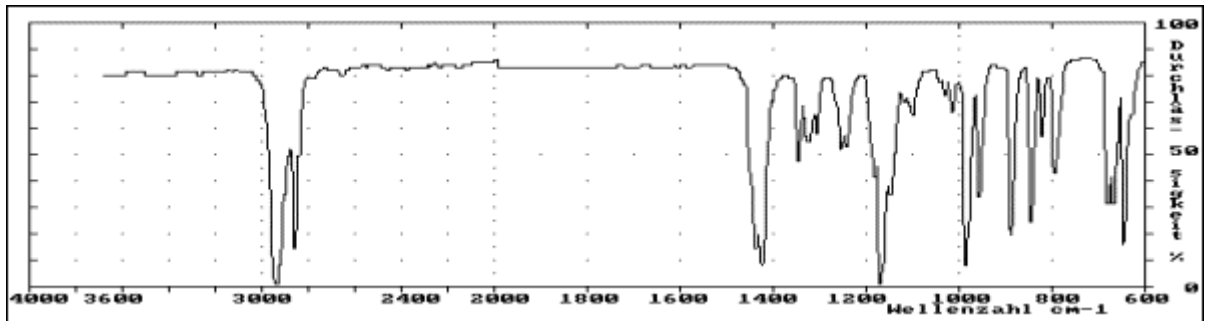
1. Quantitative Analyse:

C: 29.79 %	H: 04.17 %	O:				enthält: C, H, Br
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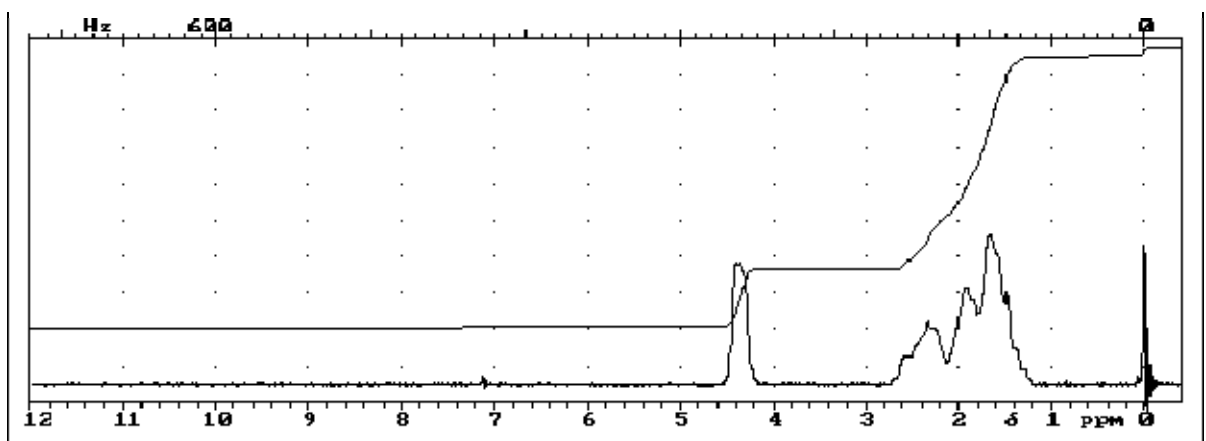
2. MS-Spektrum



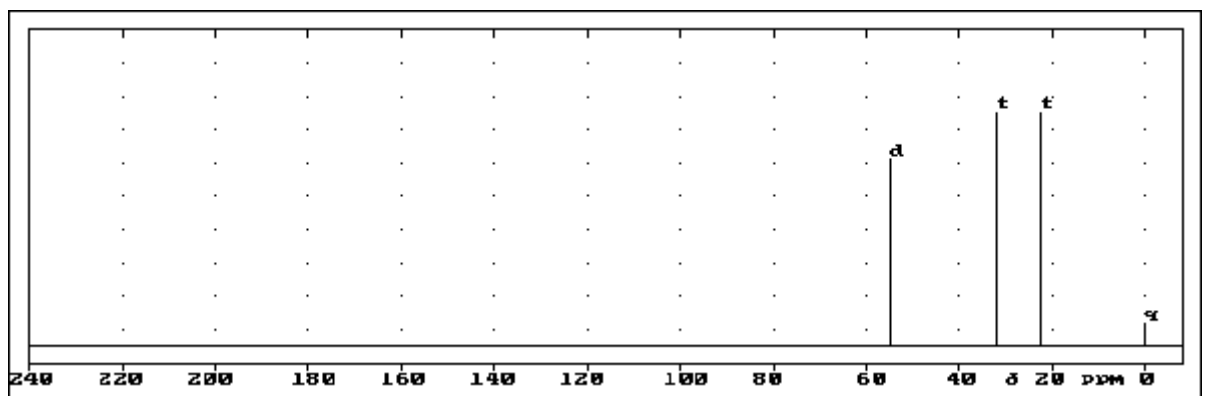
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



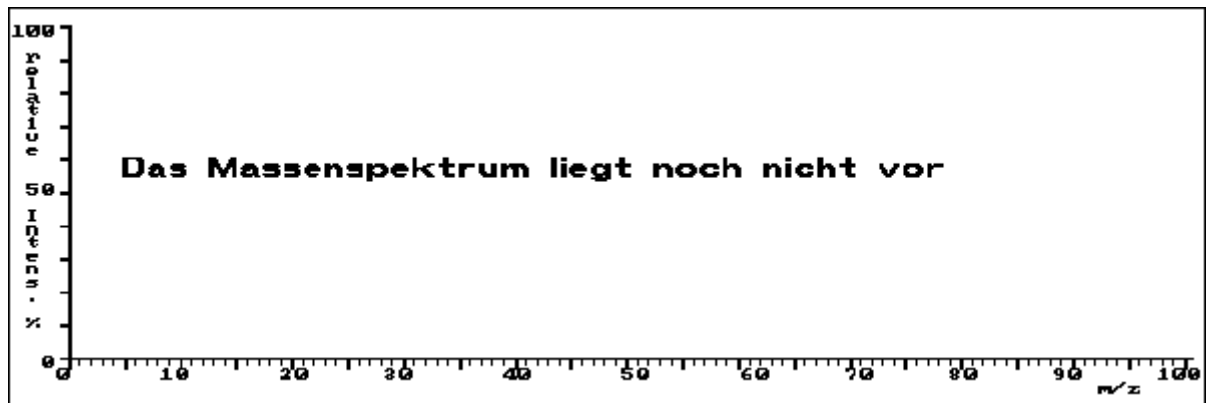
5. <sup>13</sup>C-NMR-Spektrum:



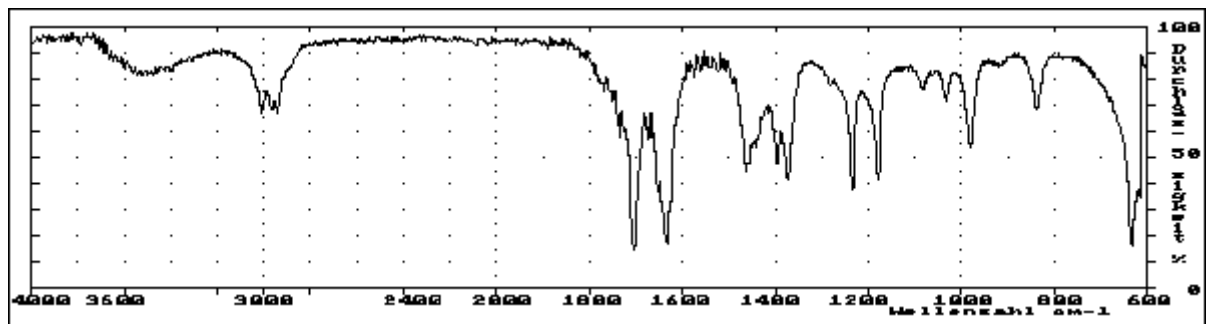
1. Quantitative Analyse:

C: 74.43 %	H: 10.27 %	O:				enthält: C, H, O
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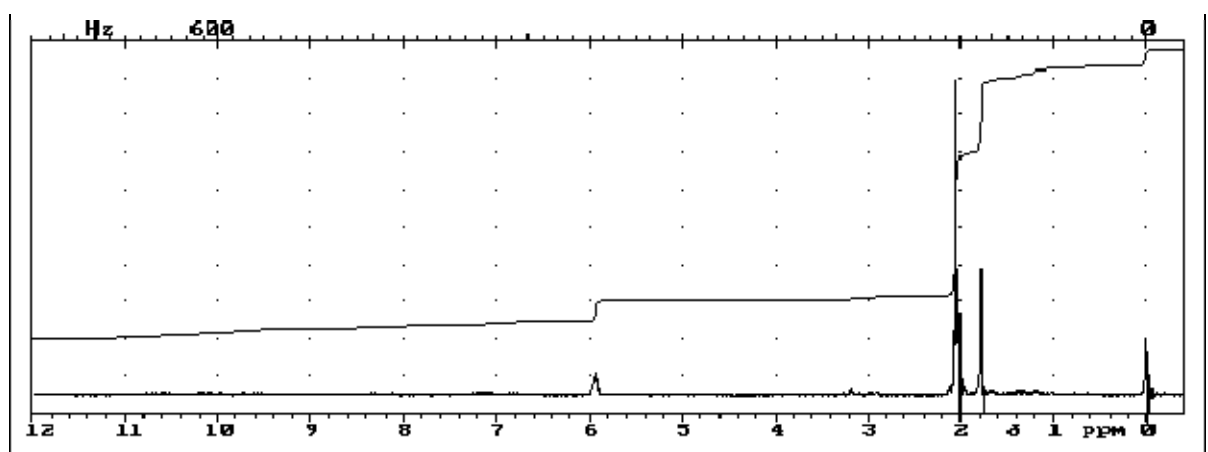
2. MS-Spektrum



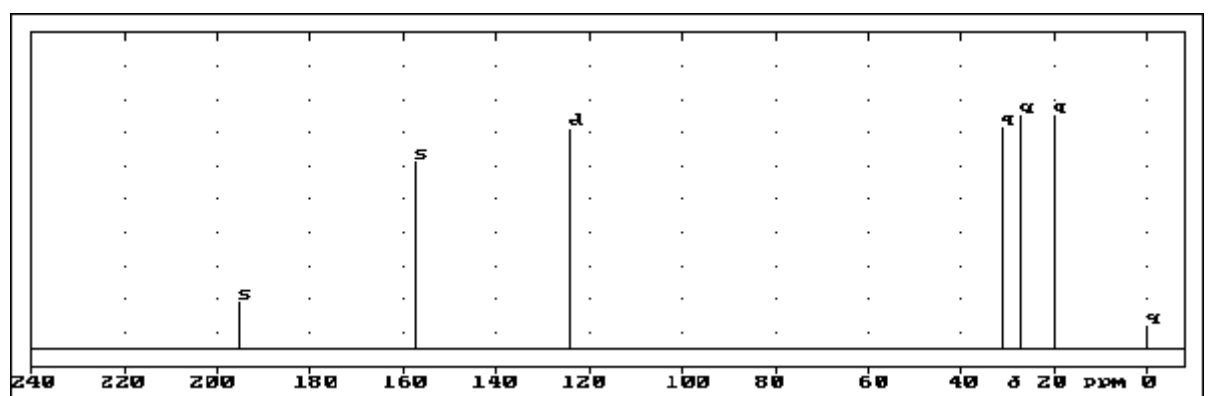
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



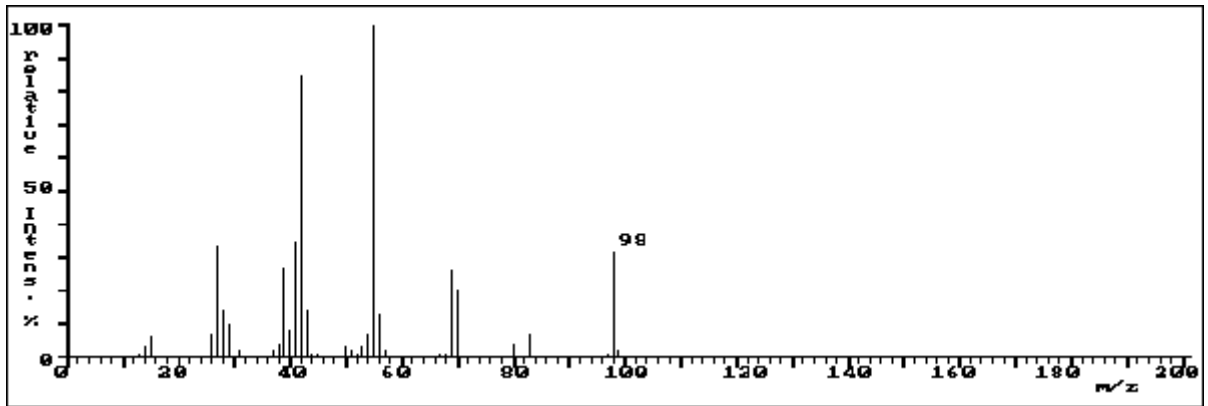
5. <sup>13</sup>C-NMR-Spektrum:



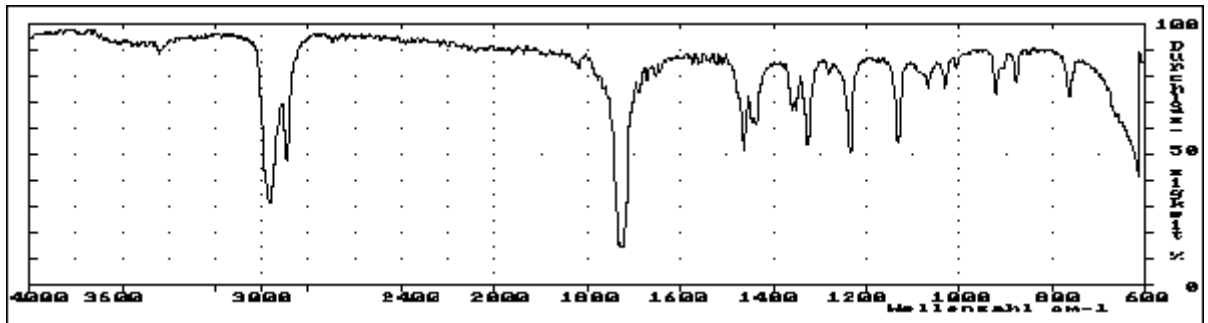
1. Quantitative Analyse:

C: 73.43 %	H: 10.27 %	O:				enthält: C, H, O
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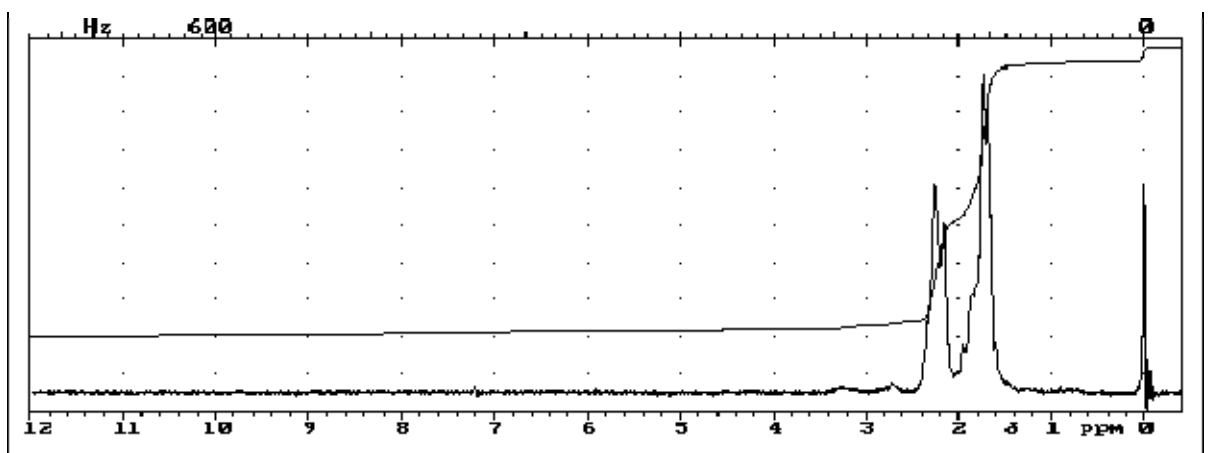
2. MS-Spektrum



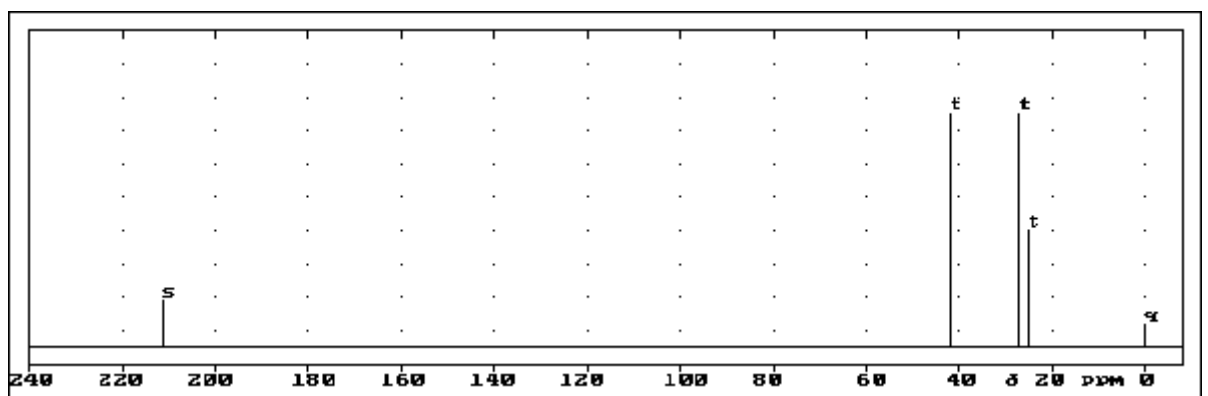
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



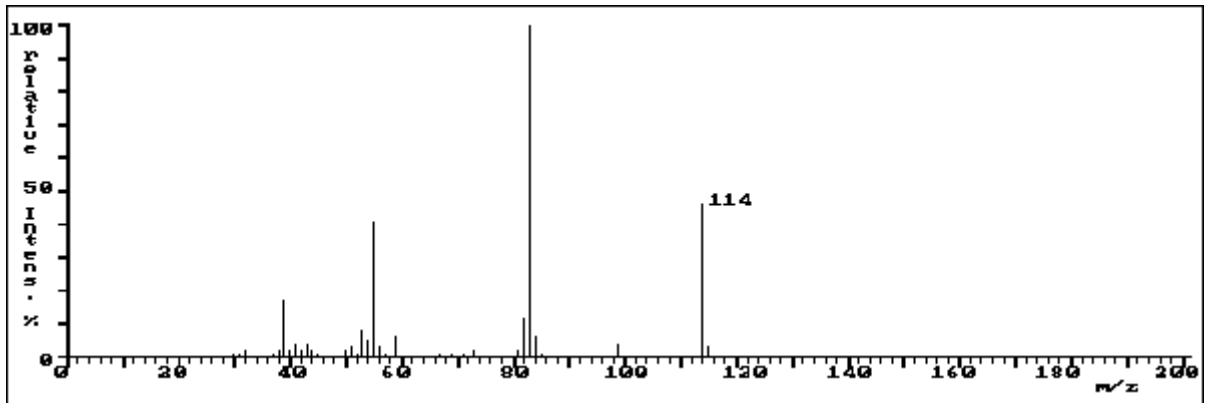
5. <sup>13</sup>C-NMR-Spektrum:



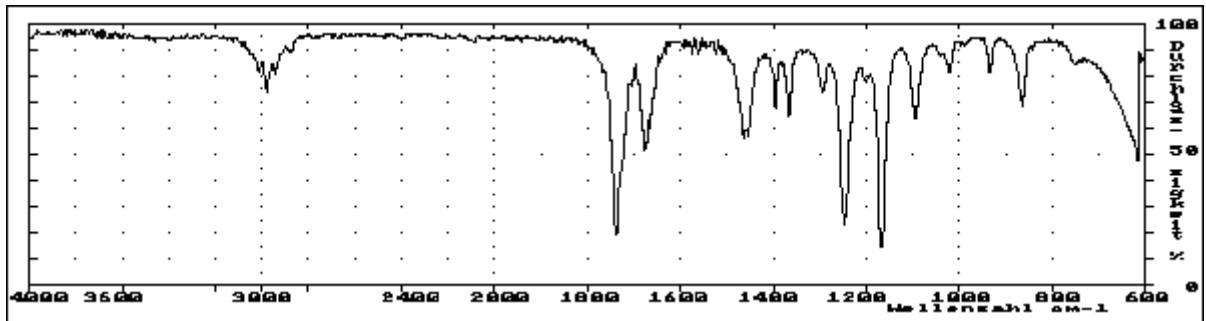
1. Quantitative Analyse:

C: 63.14 %	H: 08.83 %	O:				enthält: C, H, O
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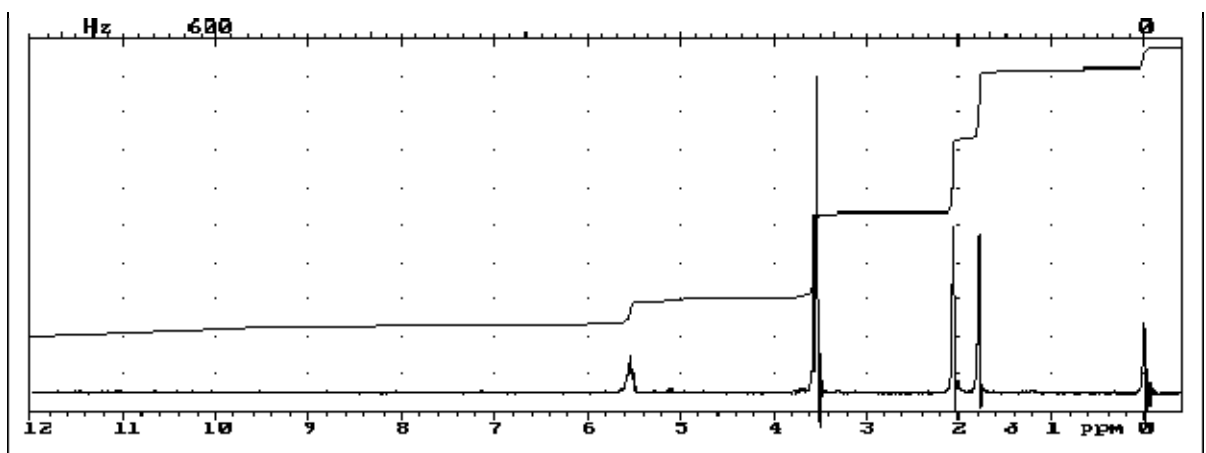
2. MS-Spektrum



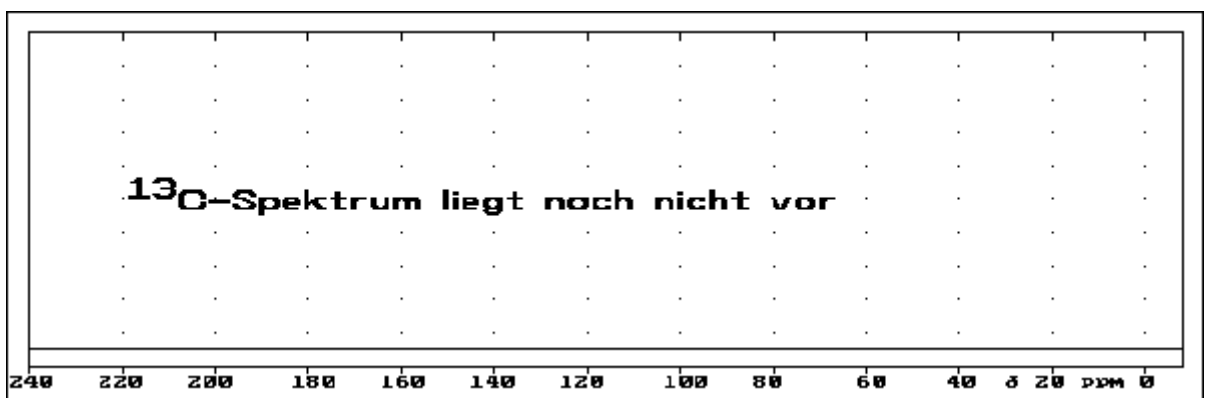
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



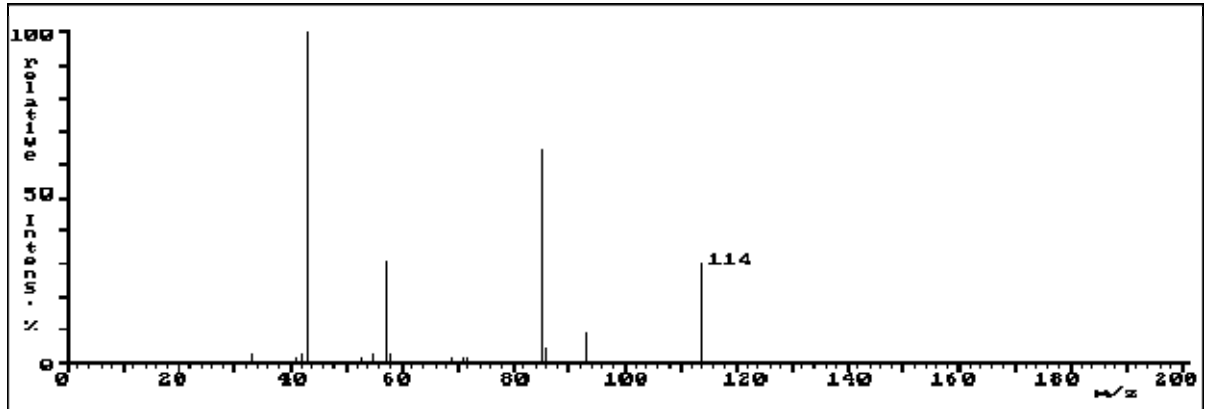
5. <sup>13</sup>C-NMR-Spektrum:



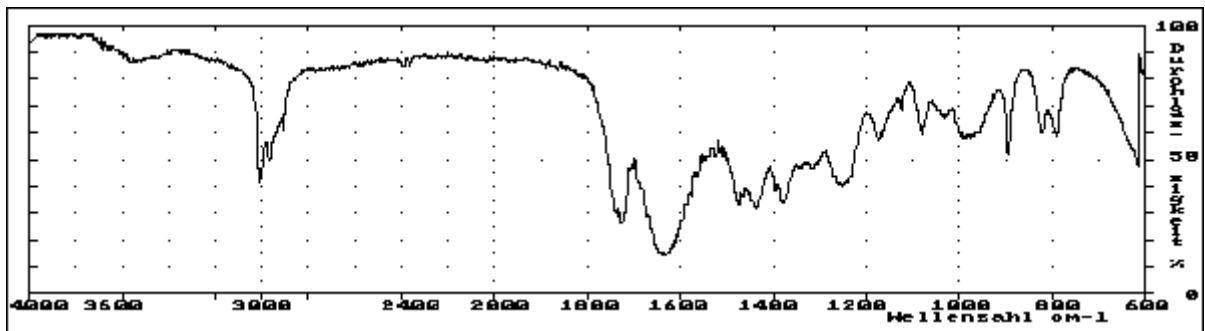
1. Quantitative Analyse:

C: 63.14 %	H: 08.83 %	O:				enthält: C, H, O
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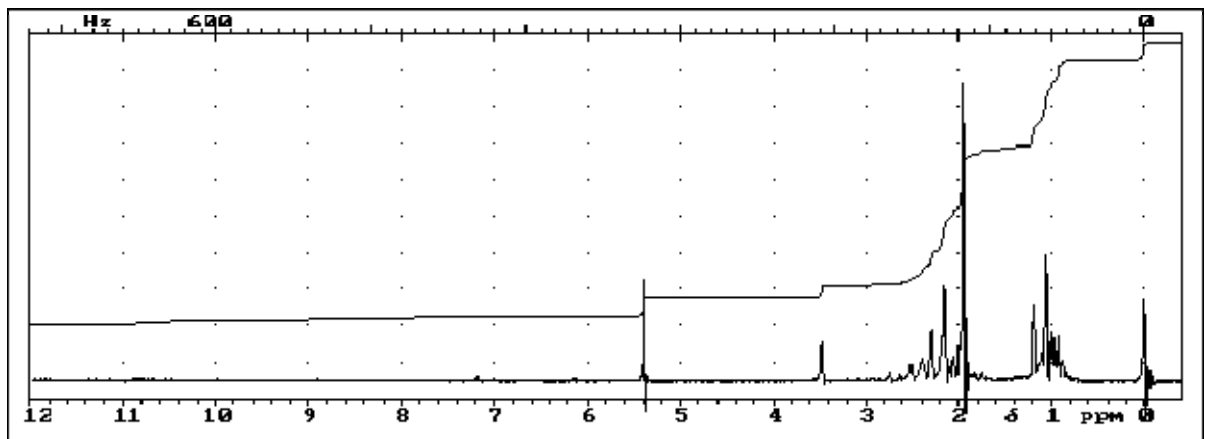
2. MS-Spektrum



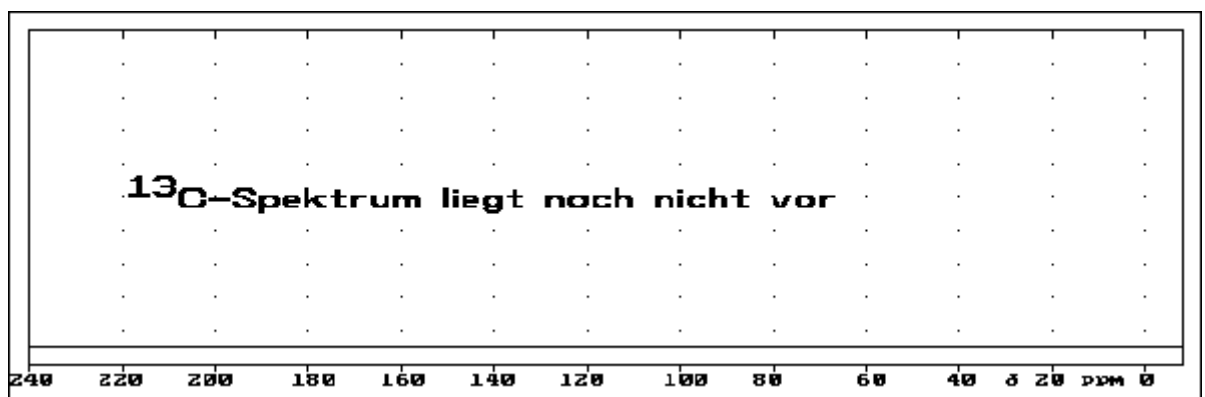
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



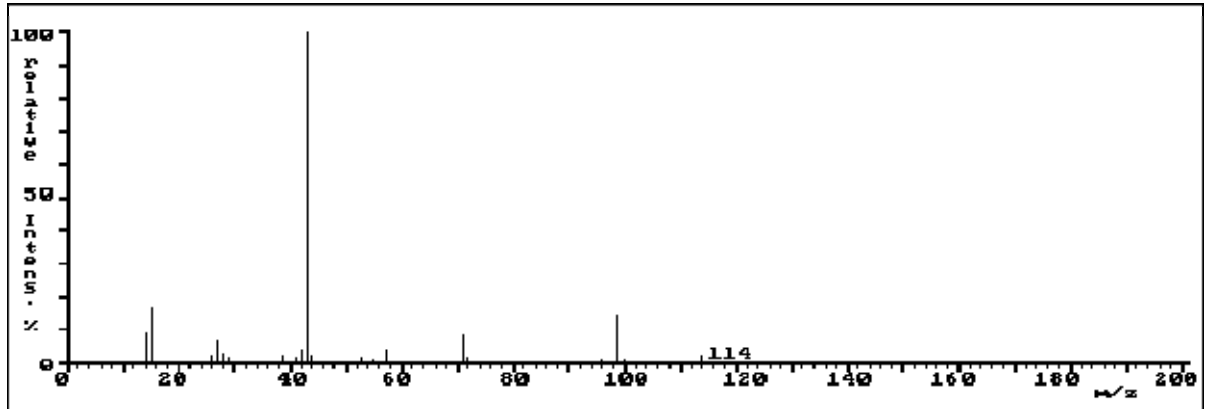
5. <sup>13</sup>C-NMR-Spektrum:



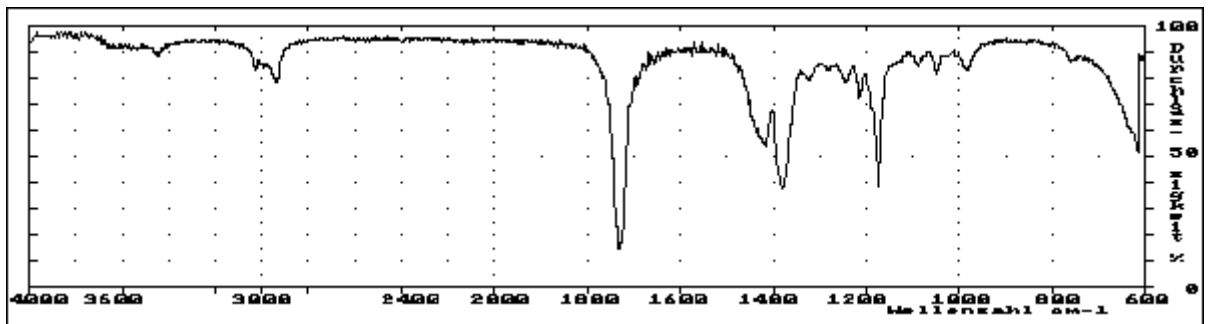
1. Quantitative Analyse:

C: 63.14 %	H: 08.83 %	O:				enthält: C, H, O
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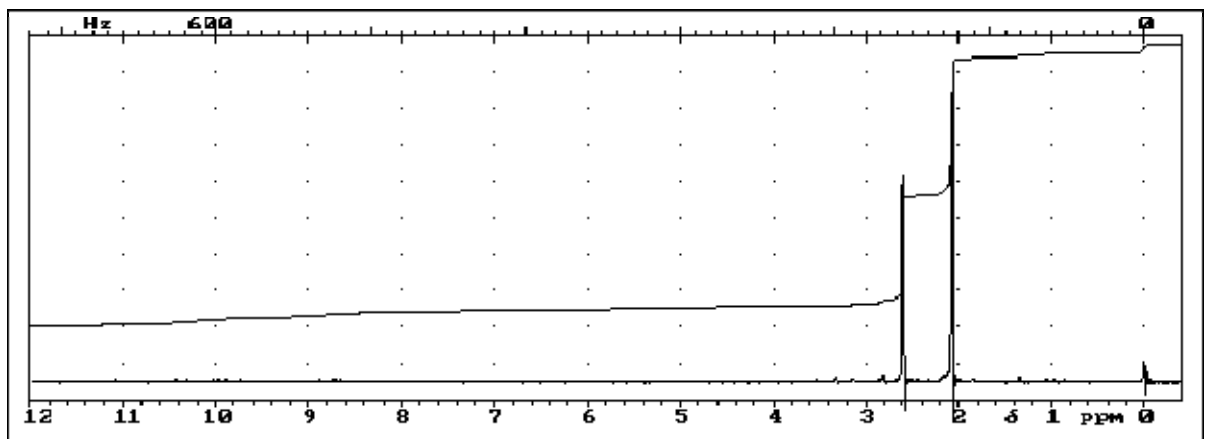
2. MS-Spektrum



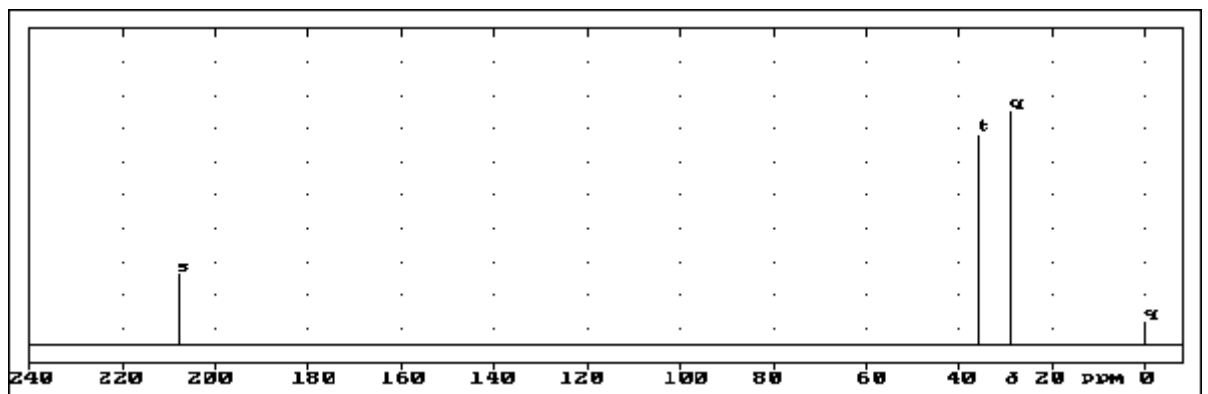
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



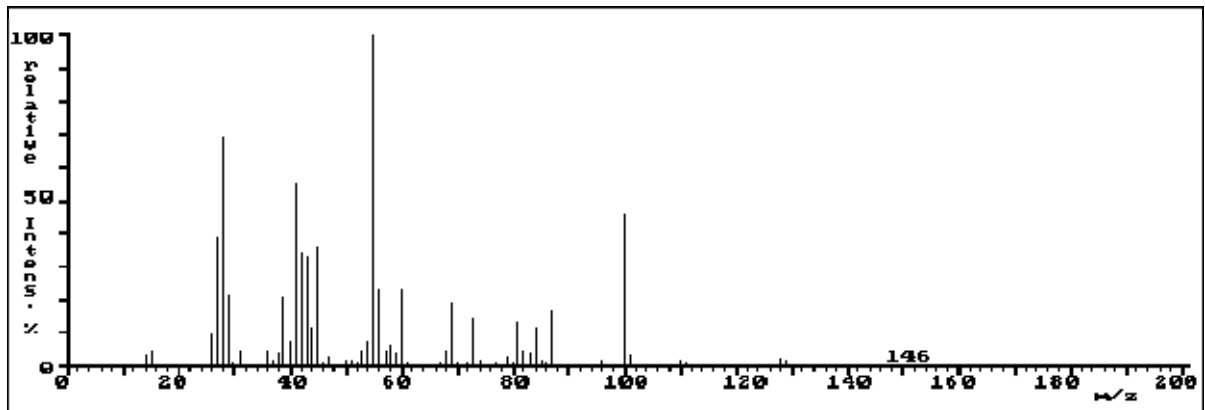
5. <sup>13</sup>C-NMR-Spektrum:



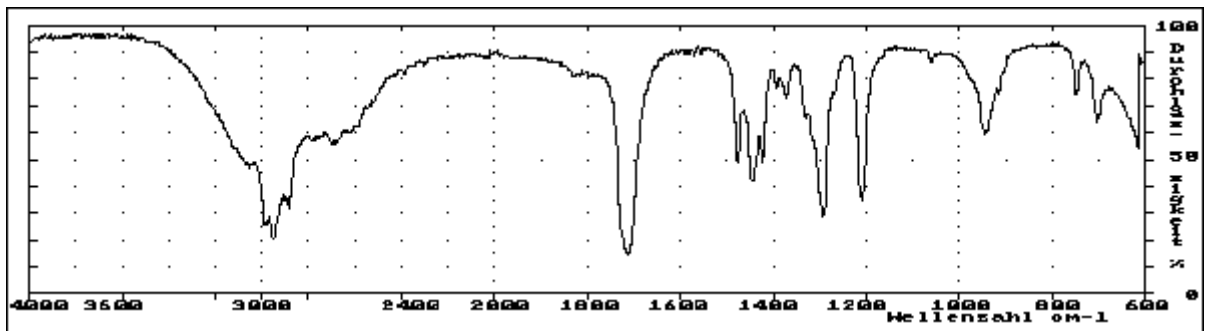
1. Quantitative Analyse:

C: 49.31 %	H: 06.90 %	O:				enthält: C, H, O
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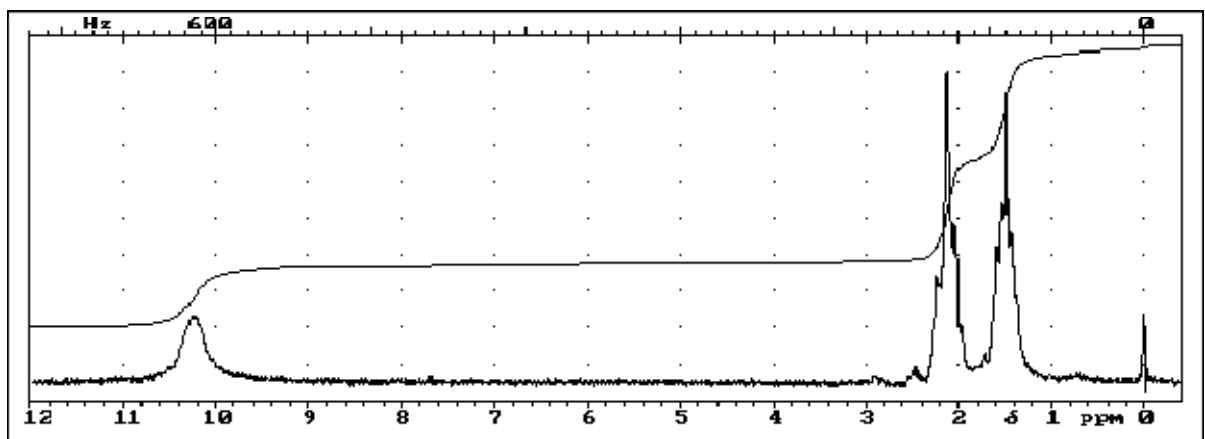
2. MS-Spektrum



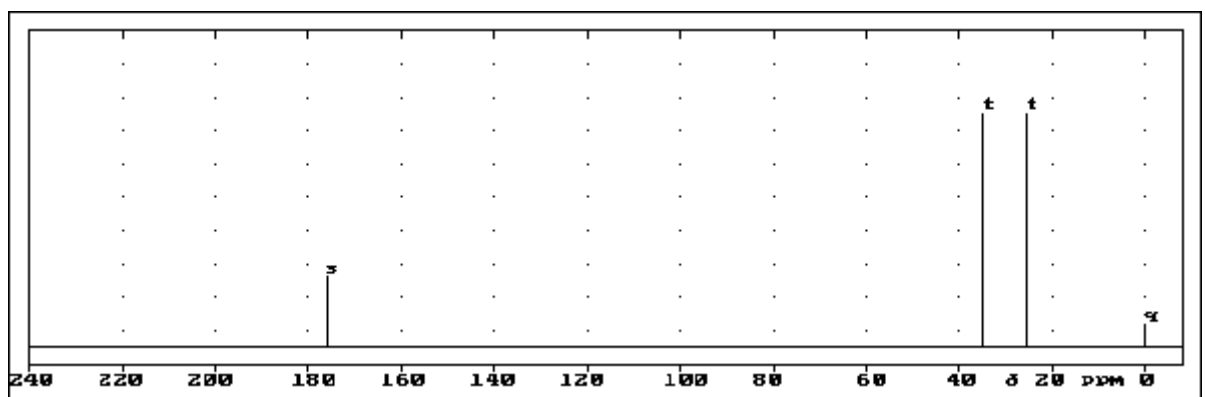
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



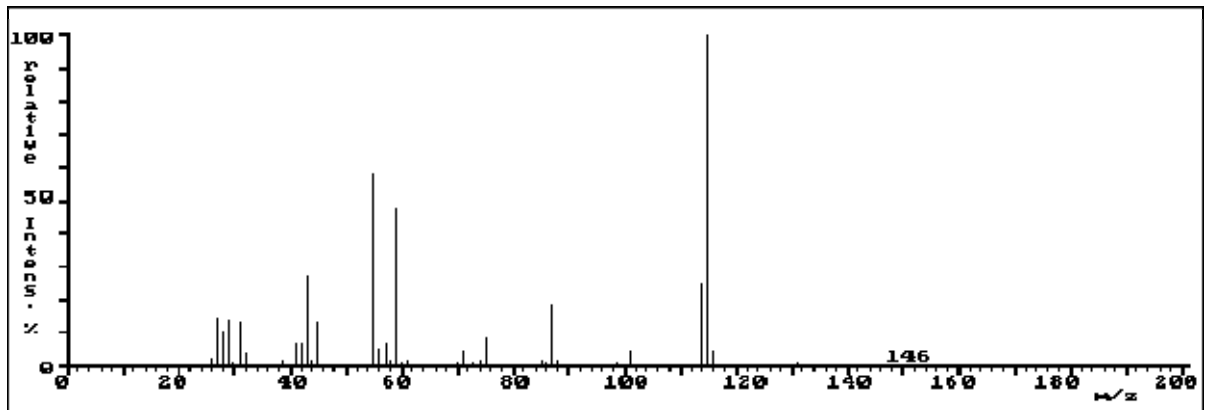
5. <sup>13</sup>C-NMR-Spektrum:



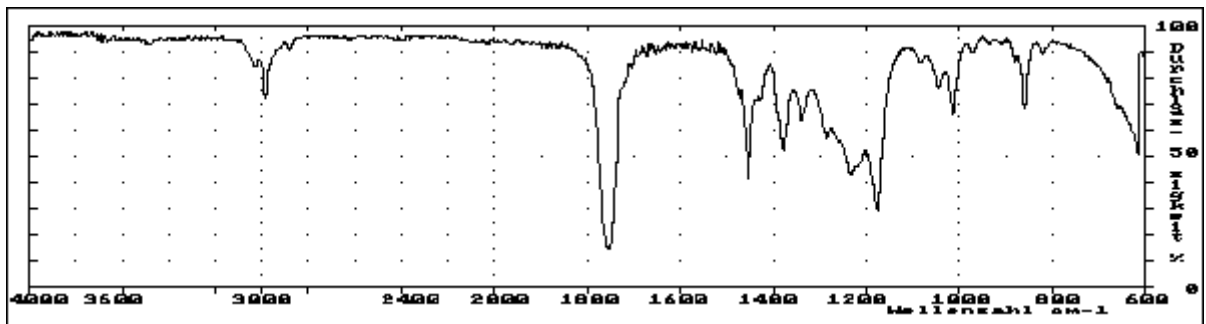
1. Quantitative Analyse:

C: 49.31 %	H: 06.90 %	O:				enthält: C, H,O
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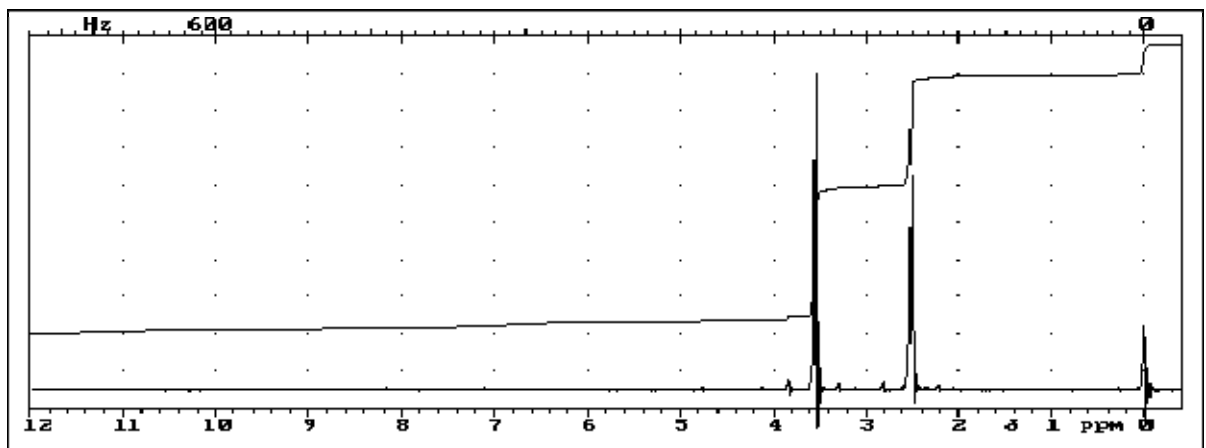
2. MS-Spektrum



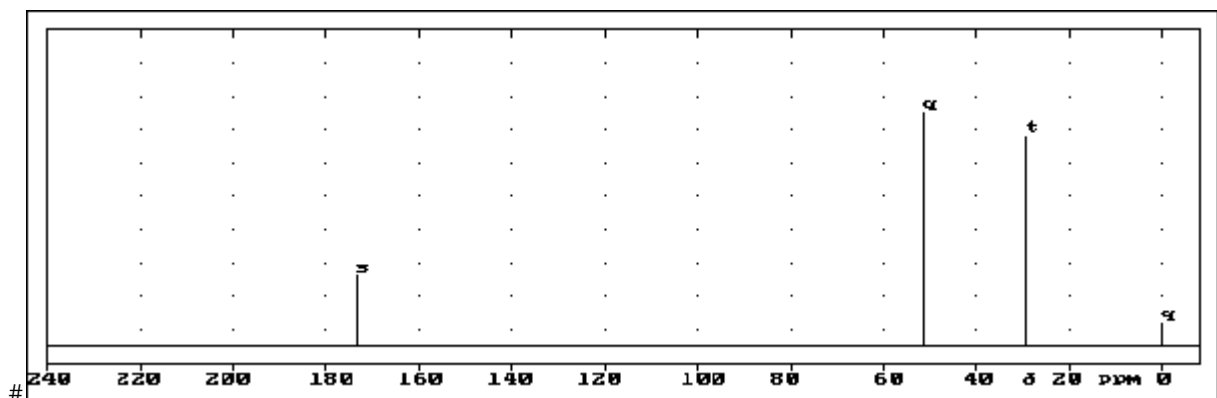
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

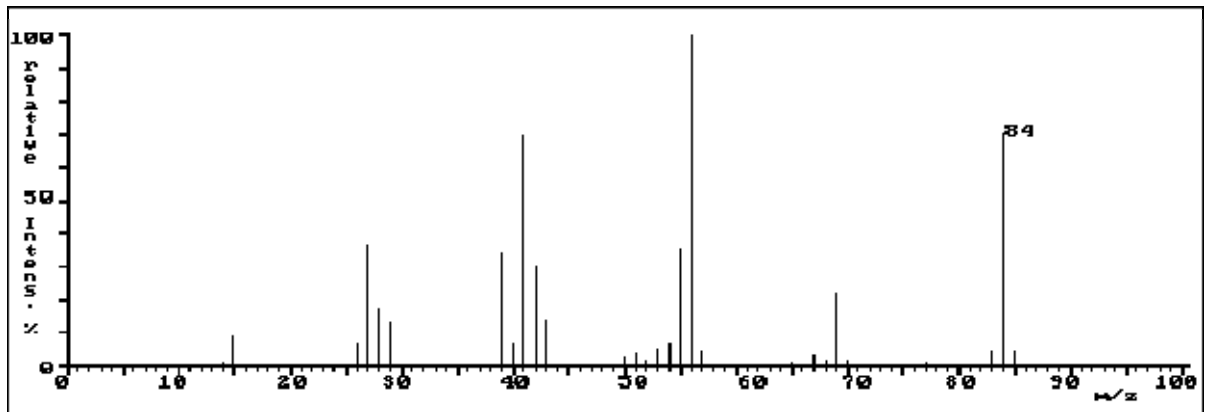




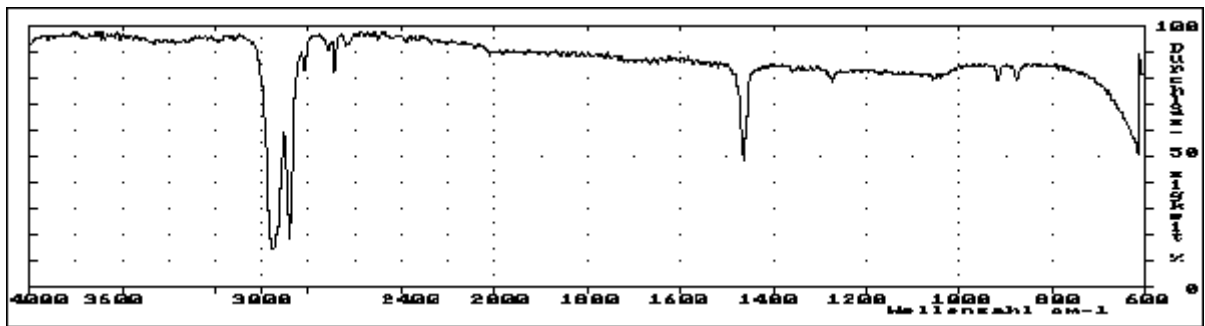
1. Quantitative Analyse:

C: 85.63 %	H: 14.37 %	O:				enthält: C, H
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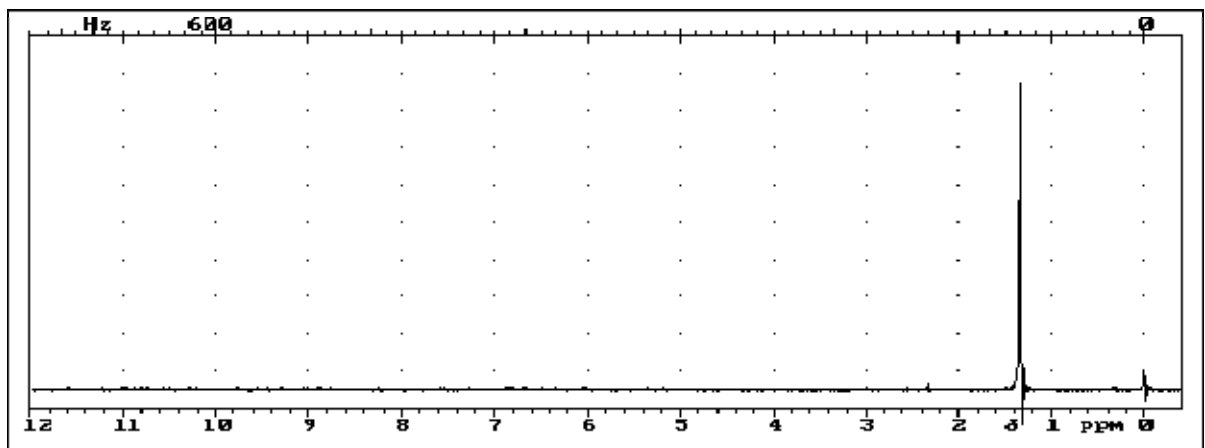
2. MS-Spektrum



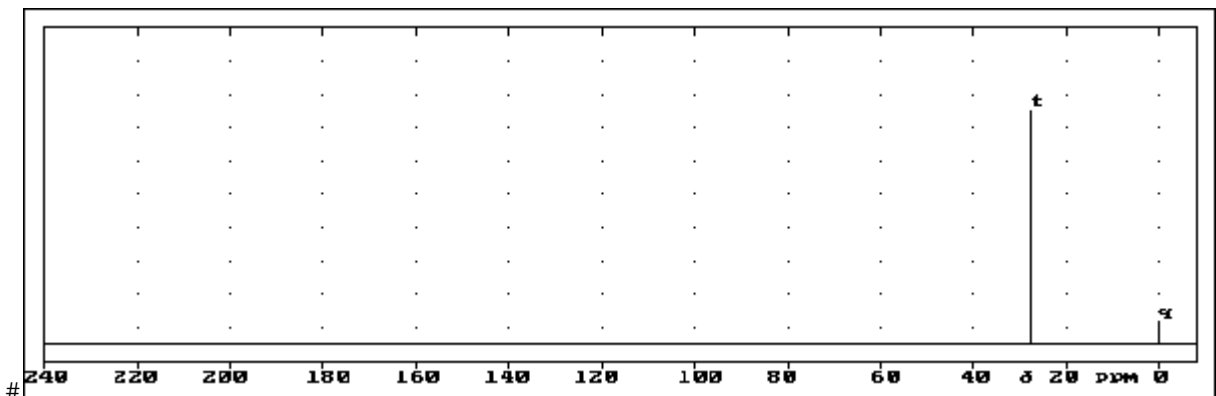
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



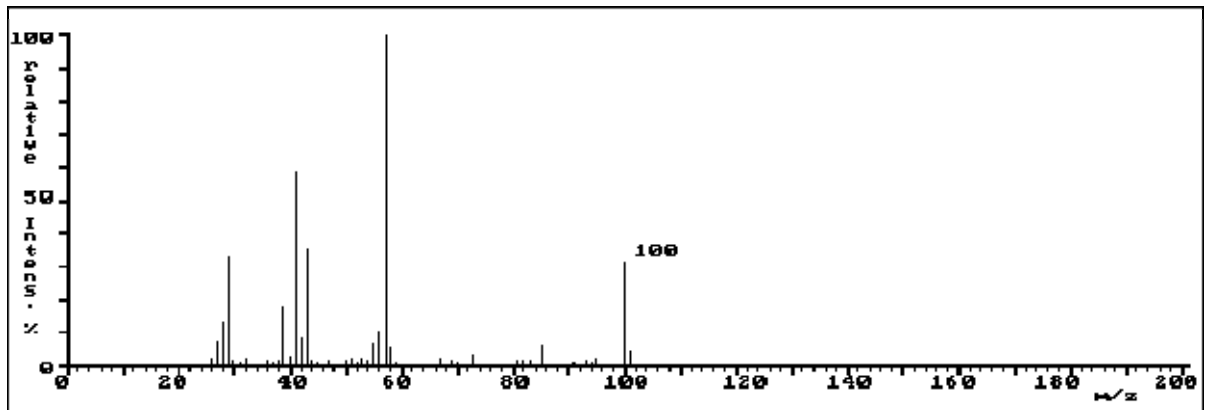
5. <sup>13</sup>C-NMR-Spektrum:



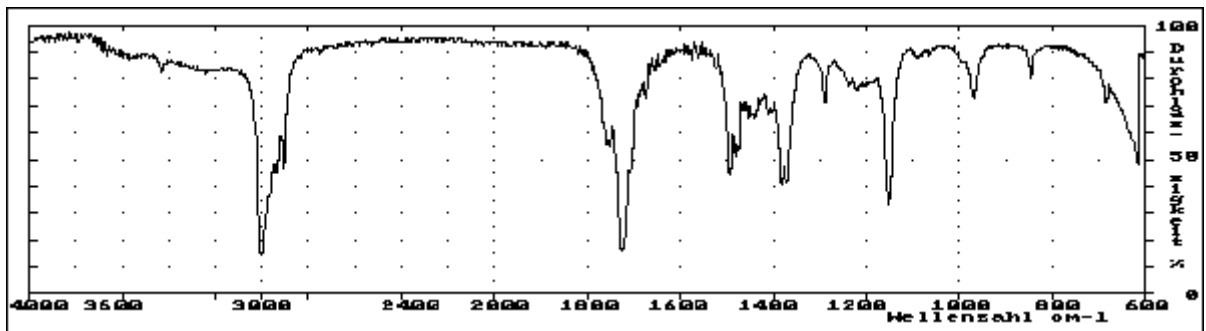
1. Quantitative Analyse:

C: 71.95 %	H: 12.08 %	O:				enthält: C, H, O
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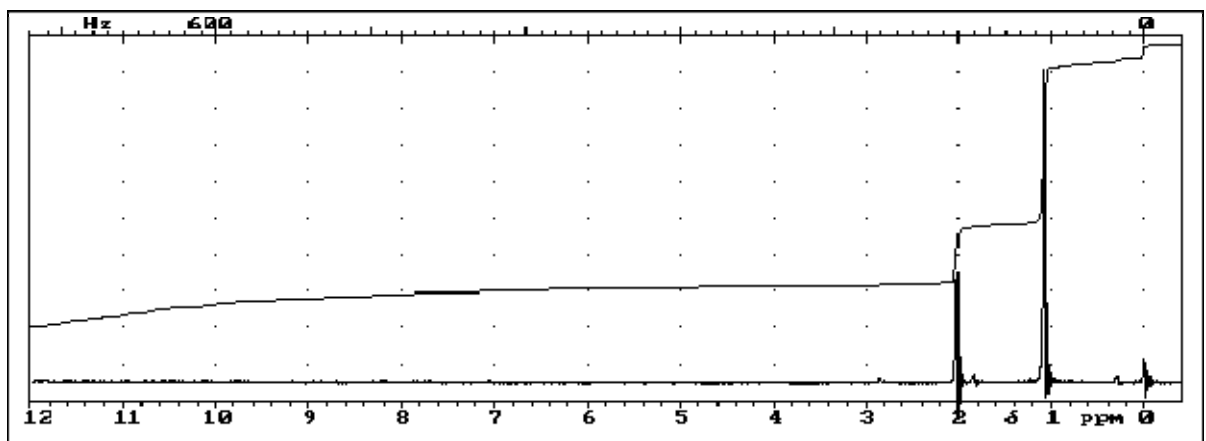
2. MS-Spektrum



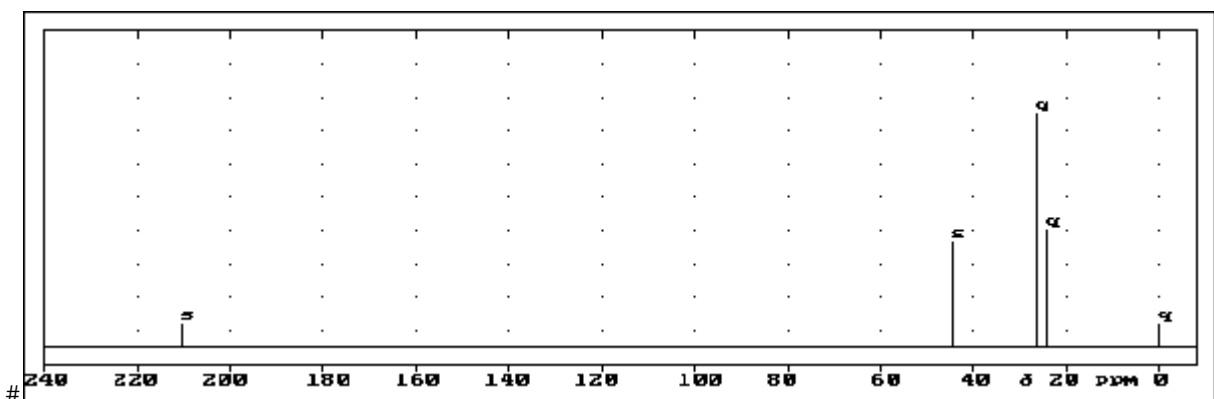
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



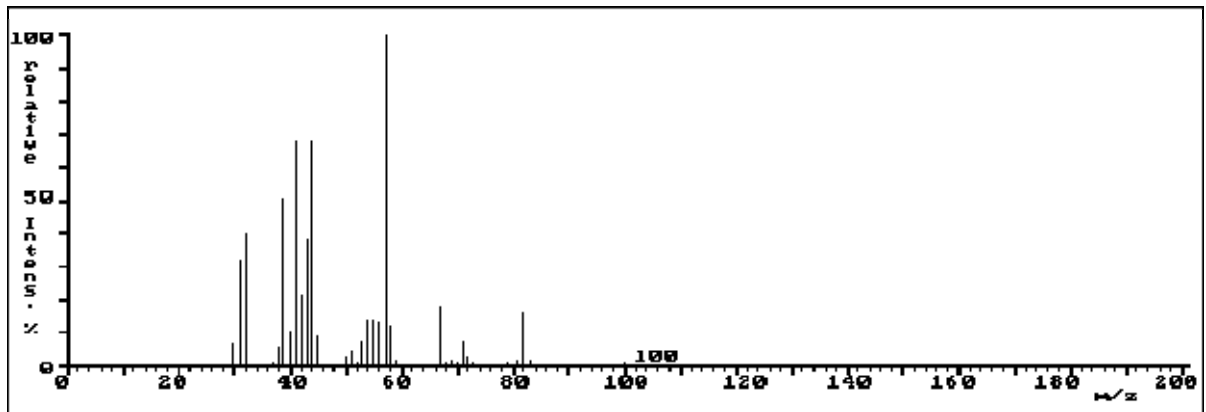
5. <sup>13</sup>C-NMR-Spektrum:



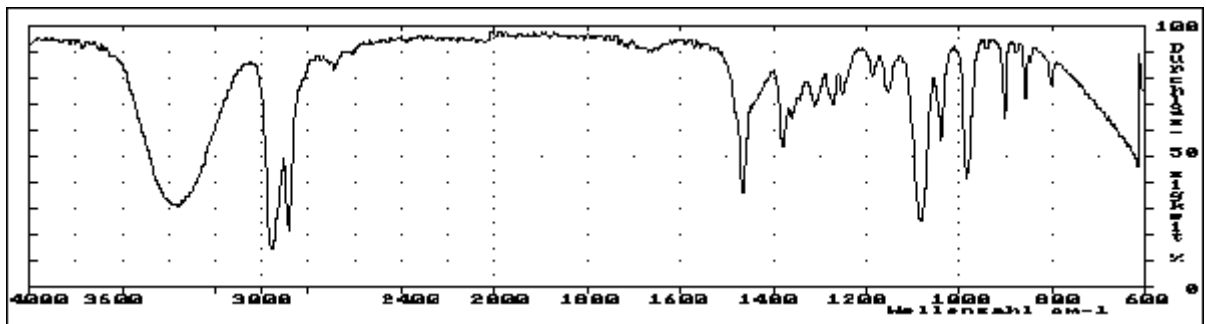
1. Quantitative Analyse:

C: 71.95 %	H: 12.08 %	O:				enthält: C, H, O
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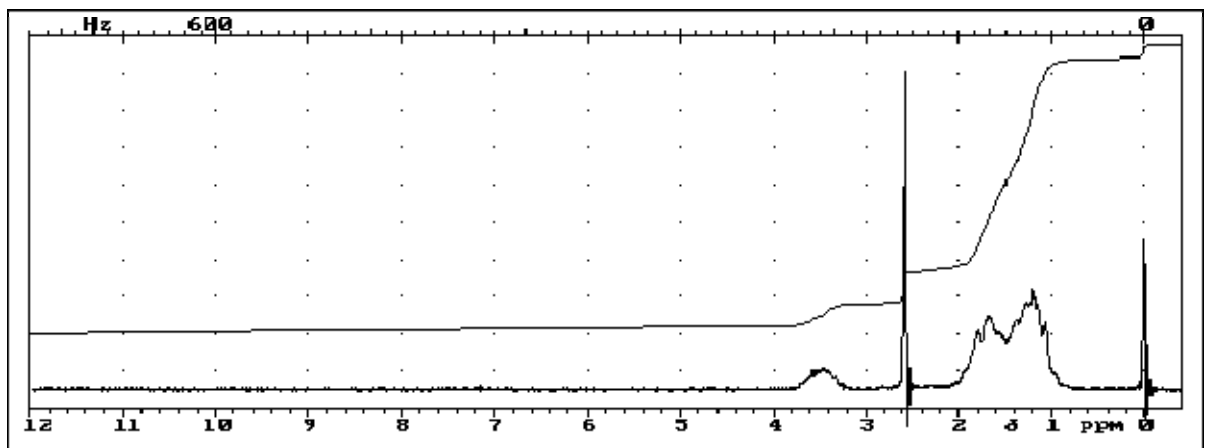
2. MS-Spektrum



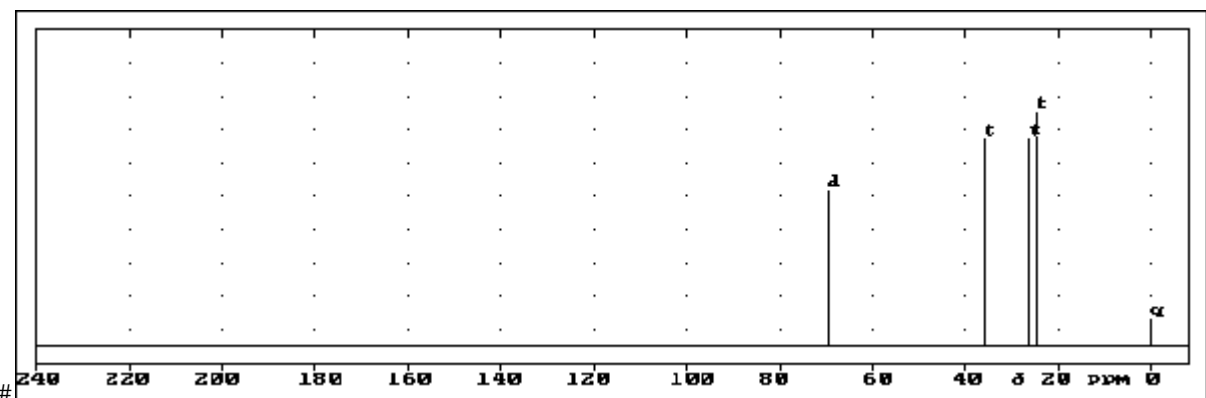
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



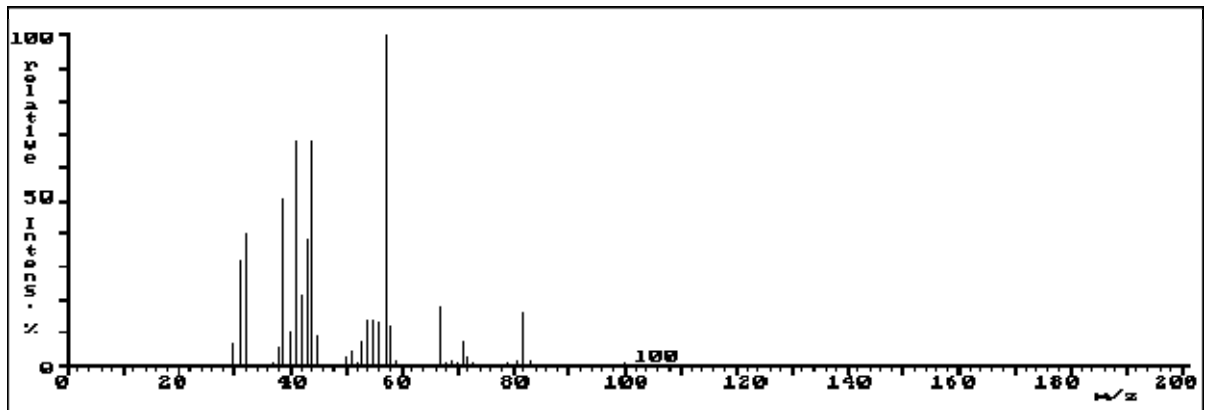
5. <sup>13</sup>C-NMR-Spektrum:



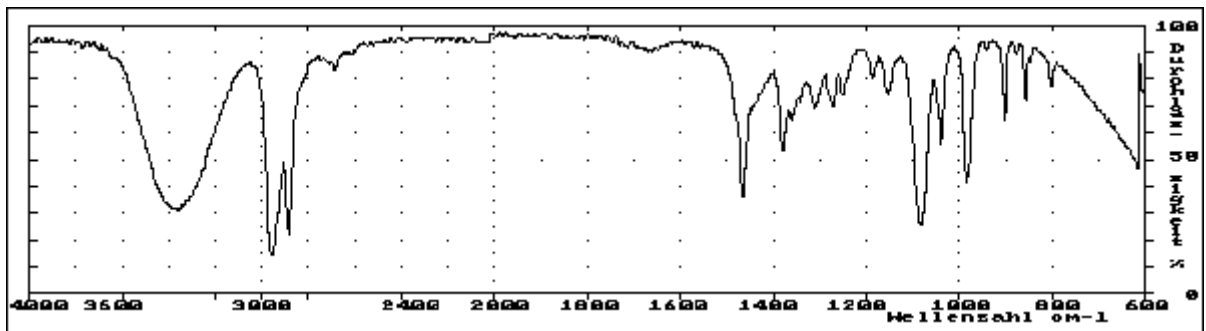
1. Quantitative Analyse:

C: 83.63 %	H: 16.37 %	O:				enthält: C, H
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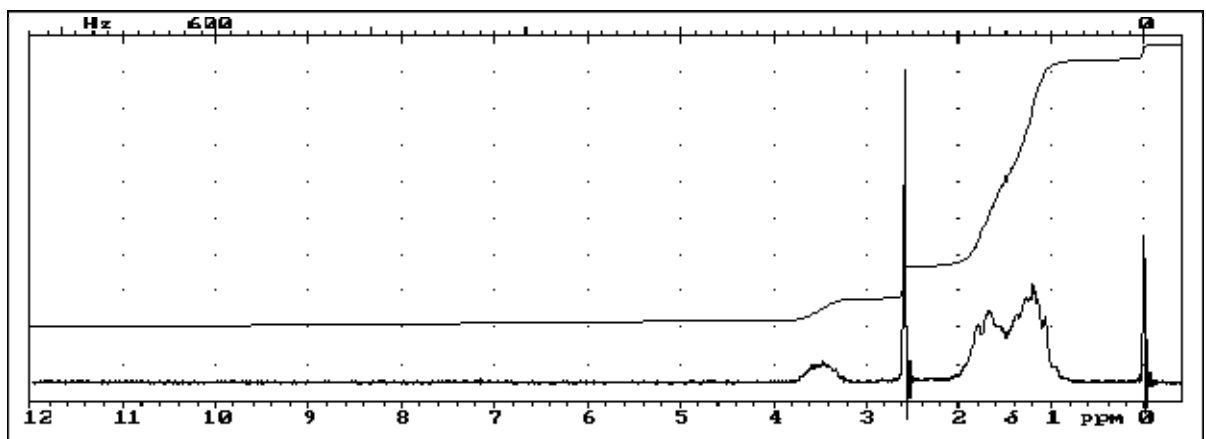
2. MS-Spektrum



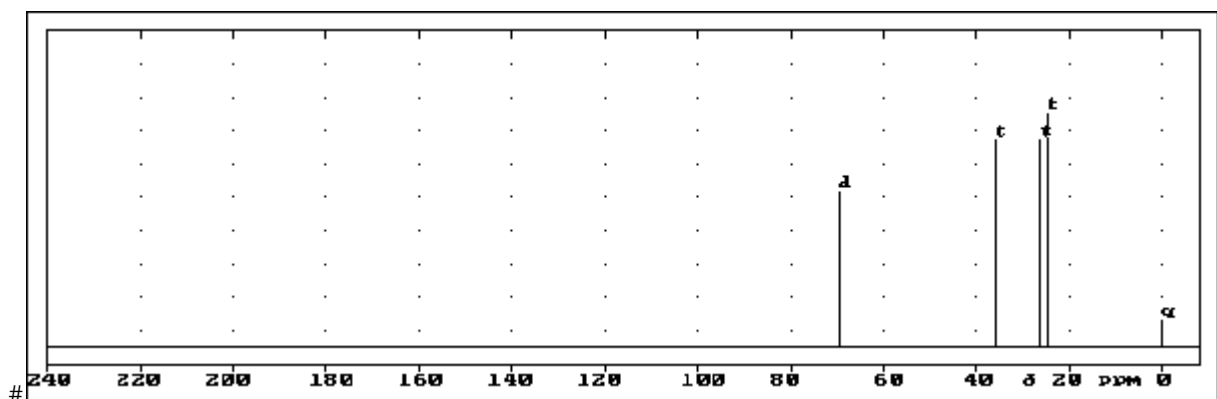
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



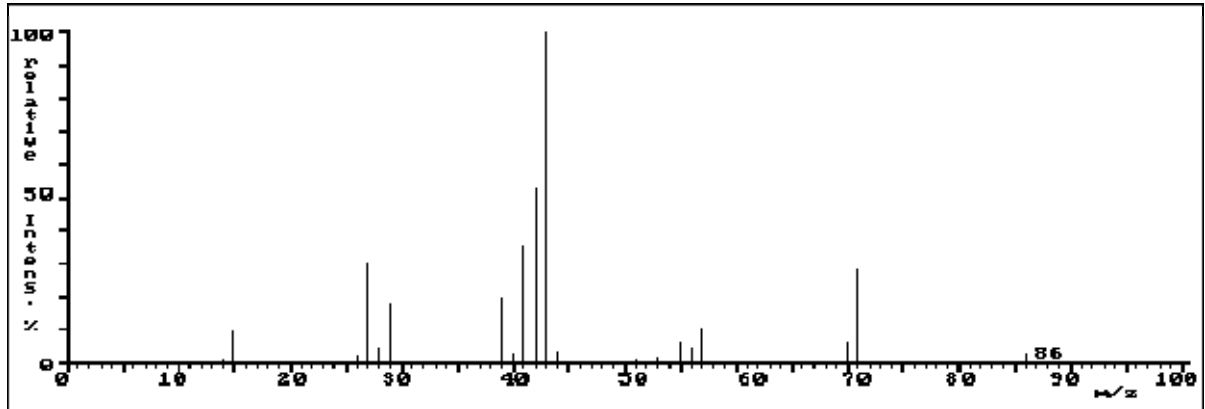
5. <sup>13</sup>C-NMR-Spektrum:



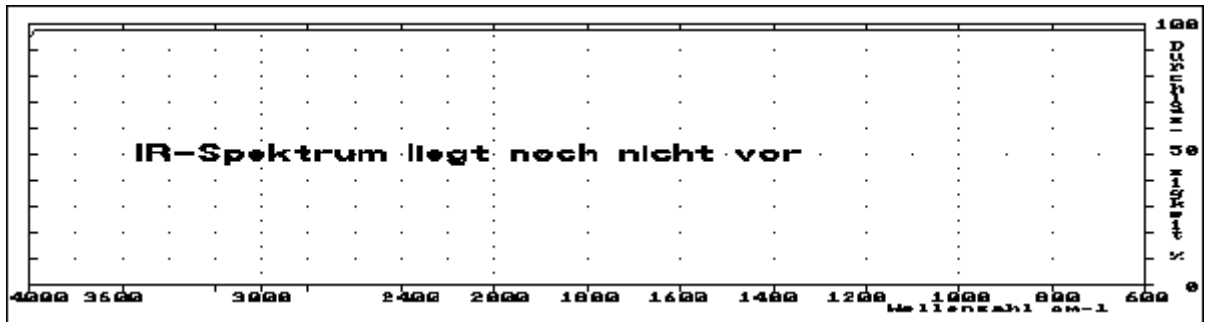
1. Quantitative Analyse:

C: 83.63 %	H: 16.37 %	O:				enthält: C, H
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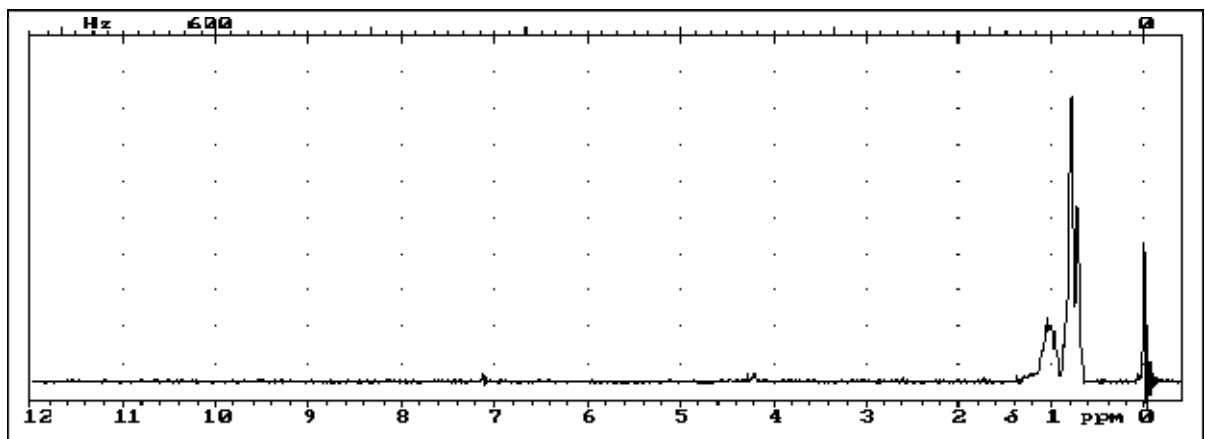
2. MS-Spektrum



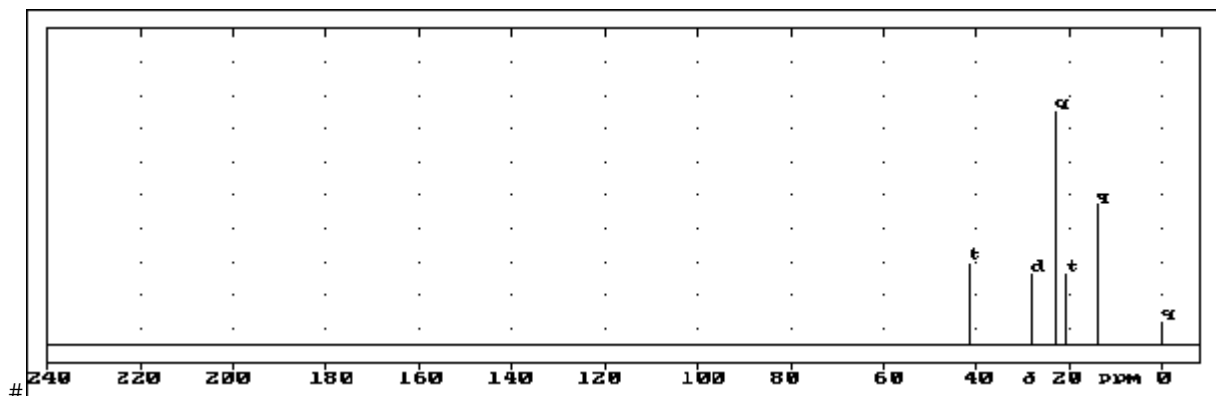
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



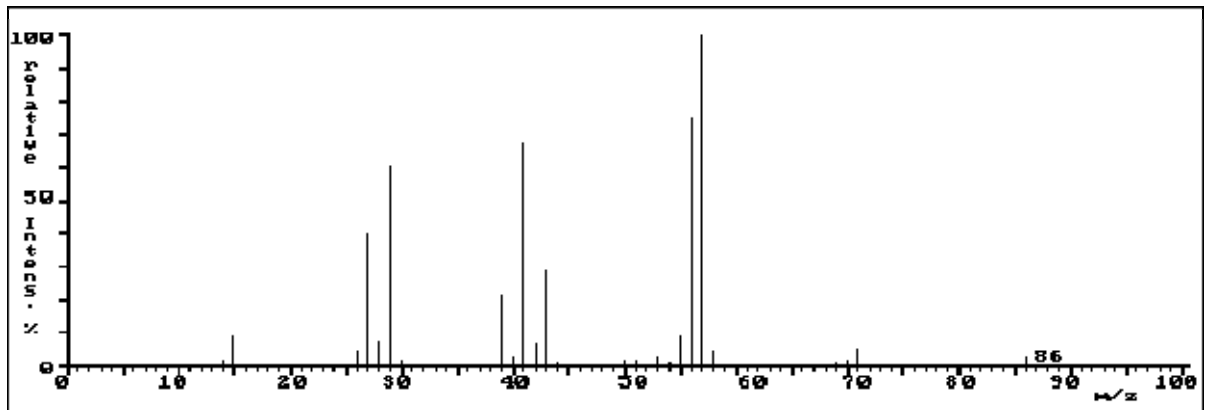
5. <sup>13</sup>C-NMR-Spektrum:



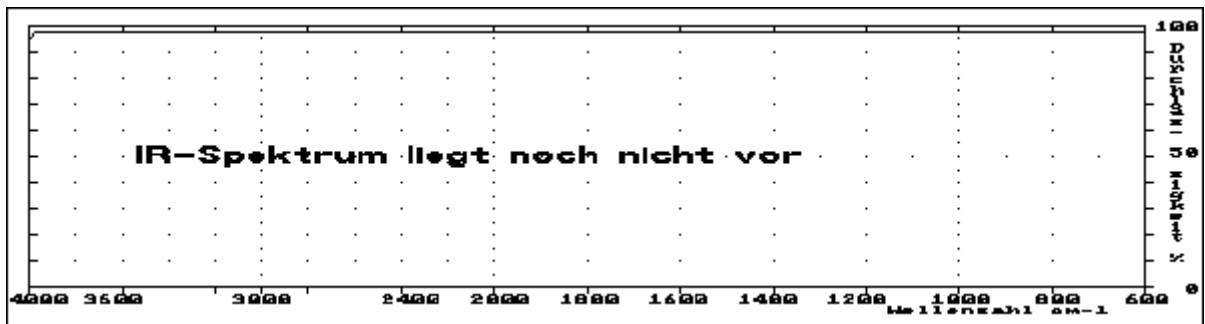
1. Quantitative Analyse:

C: 83.63 %	H: 16.37 %	O:				enthält: C, H
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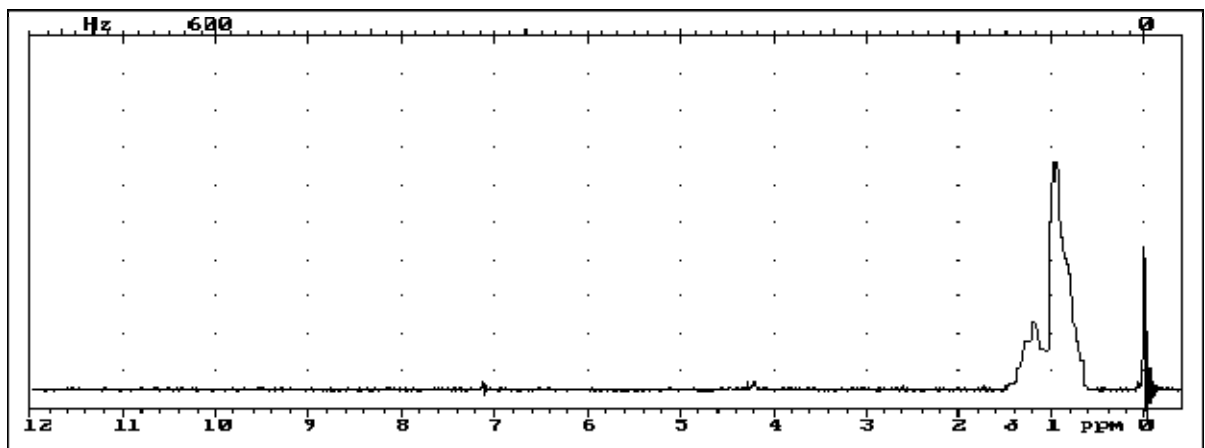
2. MS-Spektrum



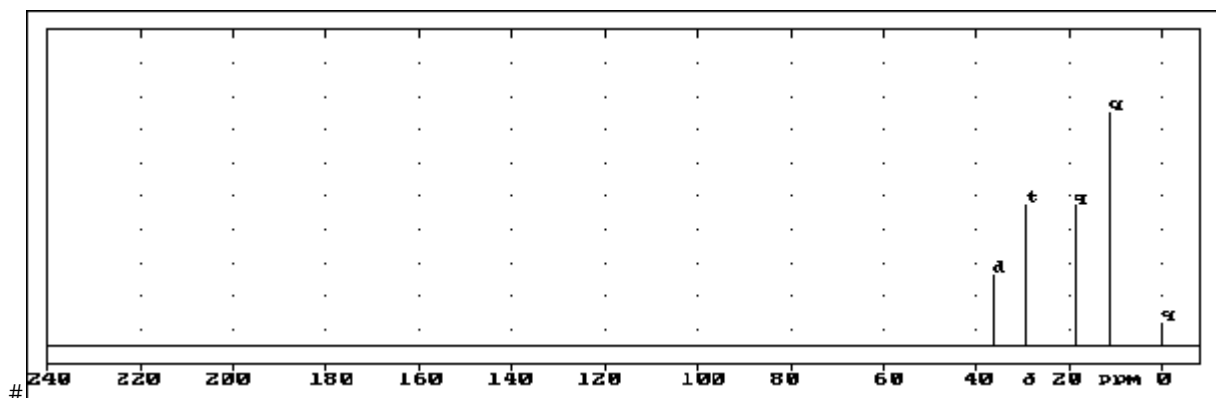
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



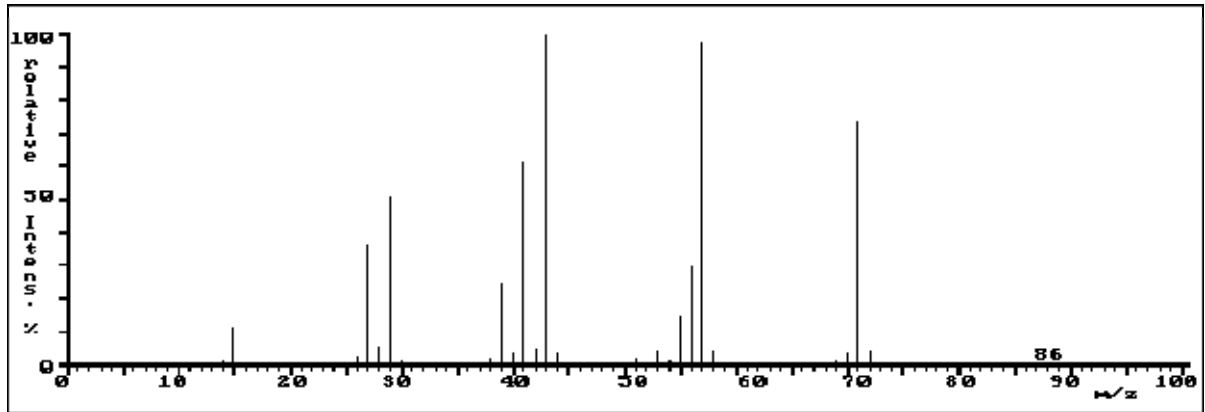
5. <sup>13</sup>C-NMR-Spektrum:



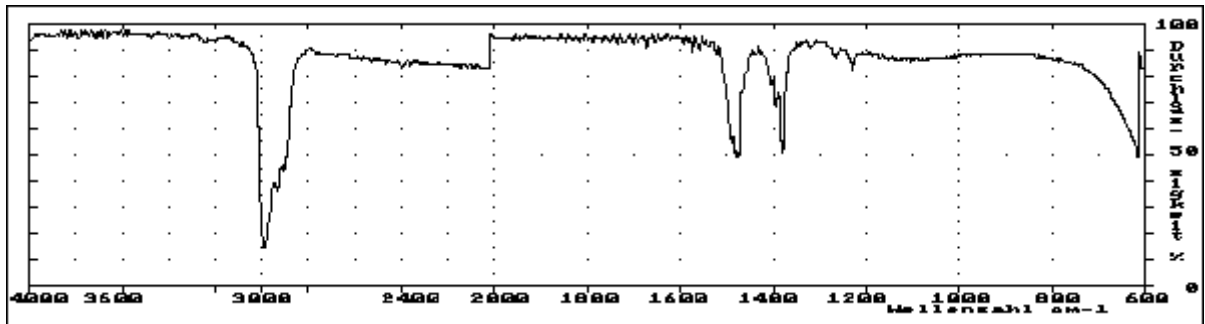
1. Quantitative Analyse:

C: 83.63 %	H: 16.37 %	O:				enthält: C, H
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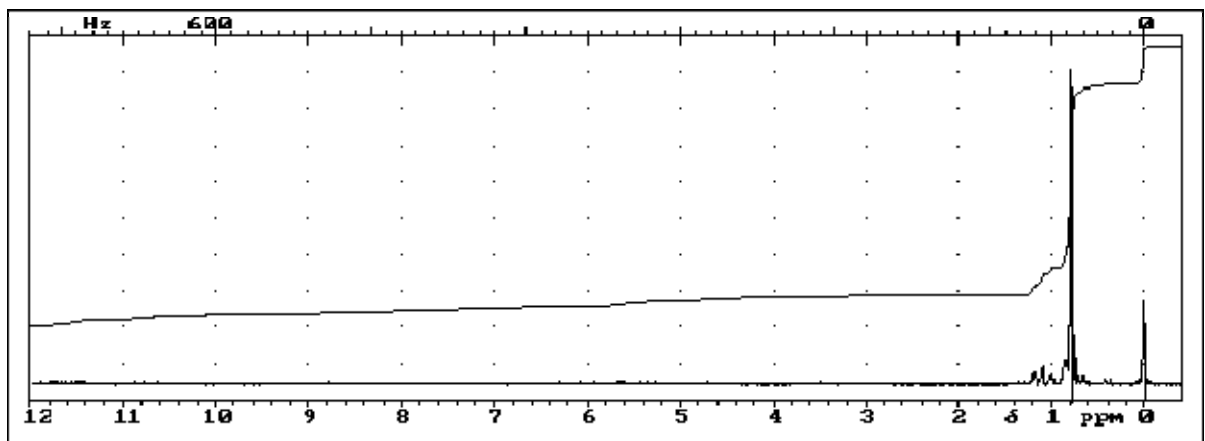
2. MS-Spektrum



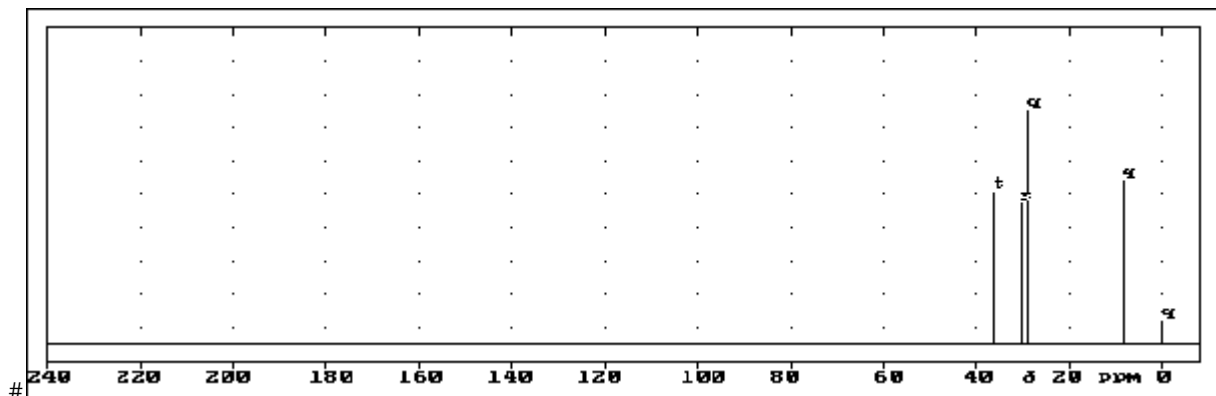
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



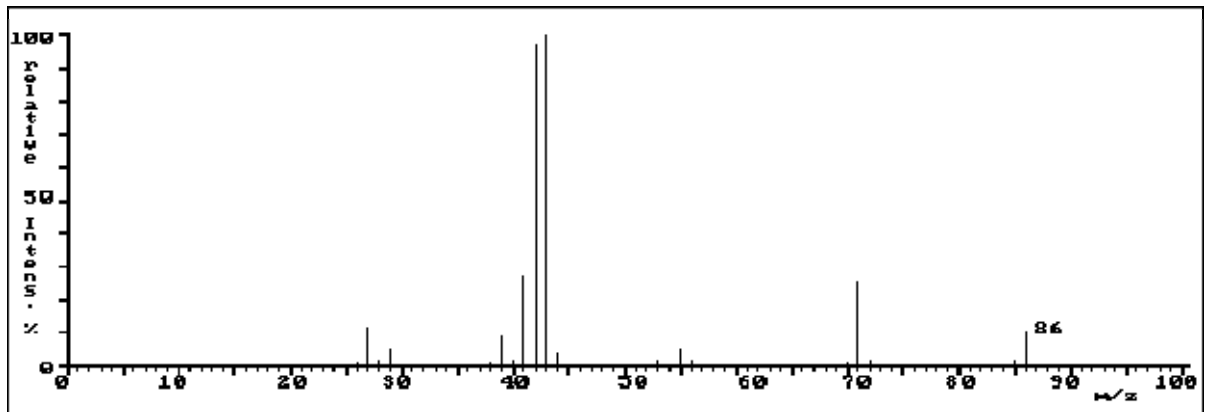
5. <sup>13</sup>C-NMR-Spektrum:



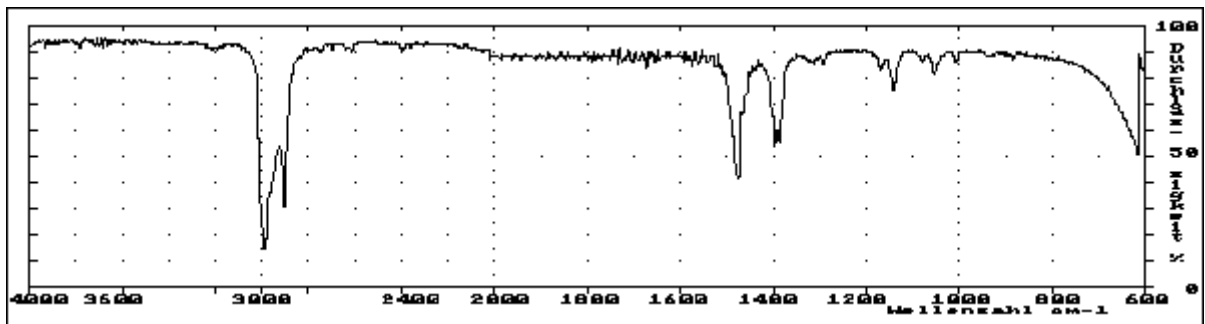
1. Quantitative Analyse:

C: 83.63 %	H: 16.37 %	O:				enthält: C, H
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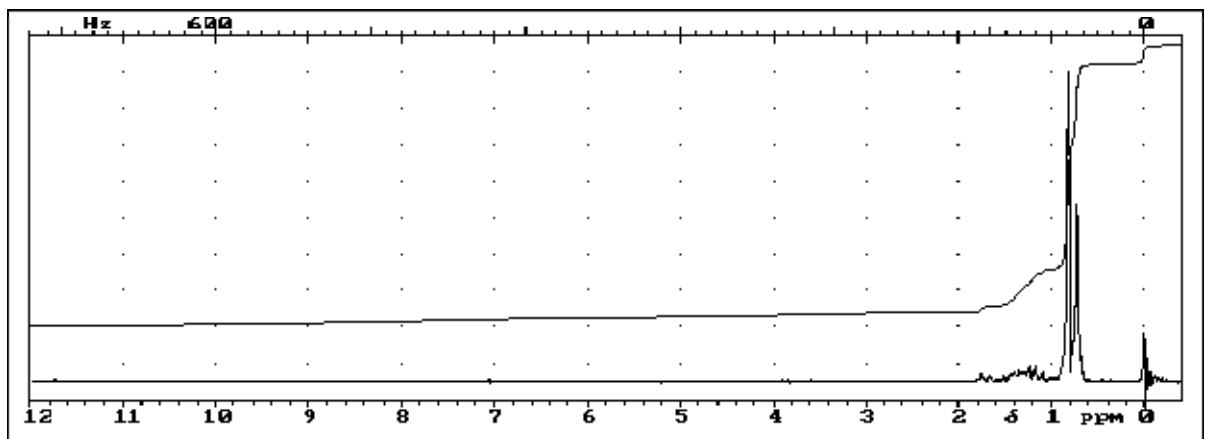
2. MS-Spektrum



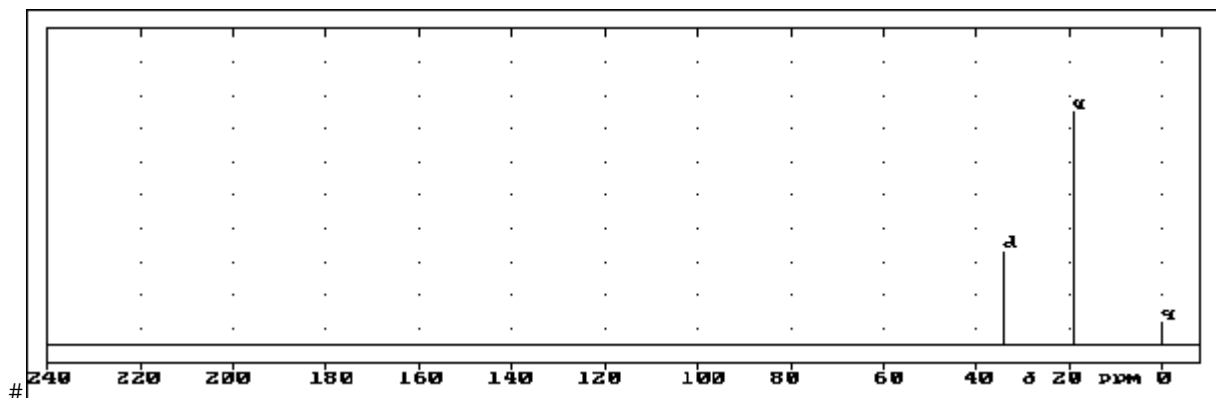
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

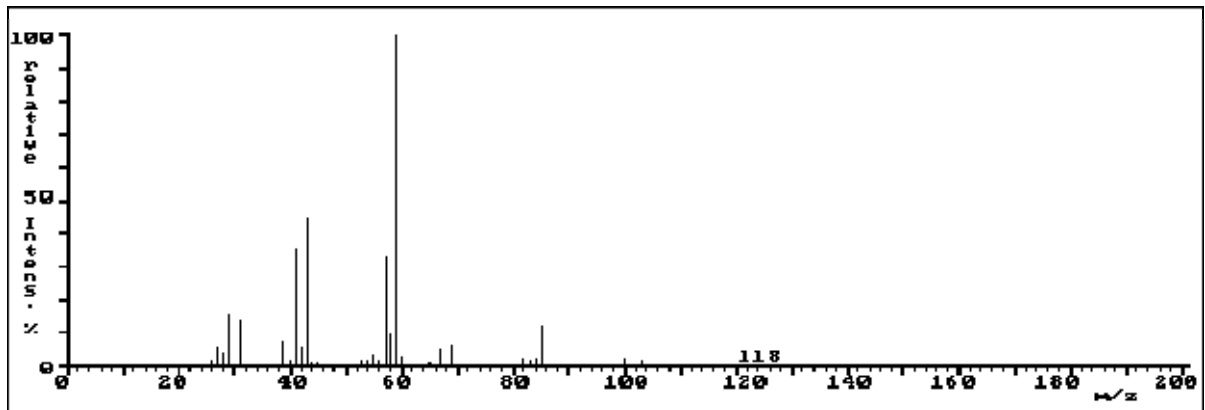




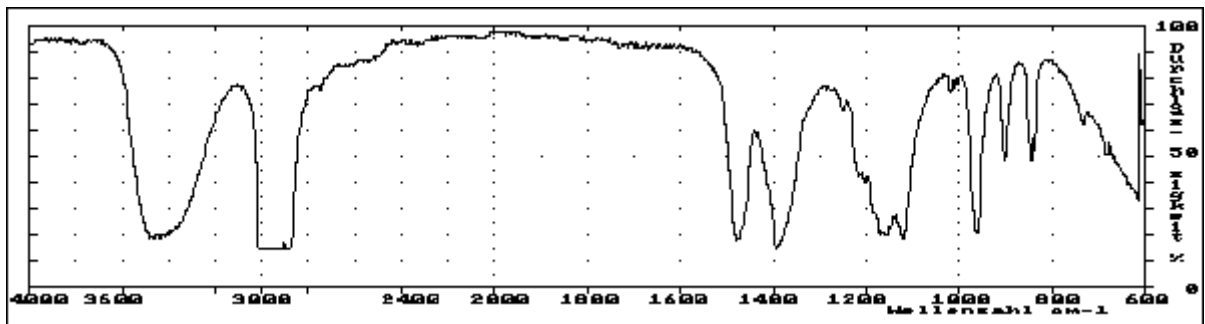
1. Quantitative Analyse:

C: 60.98 %	H: 11.94 %	O:				enthält: C, H, O
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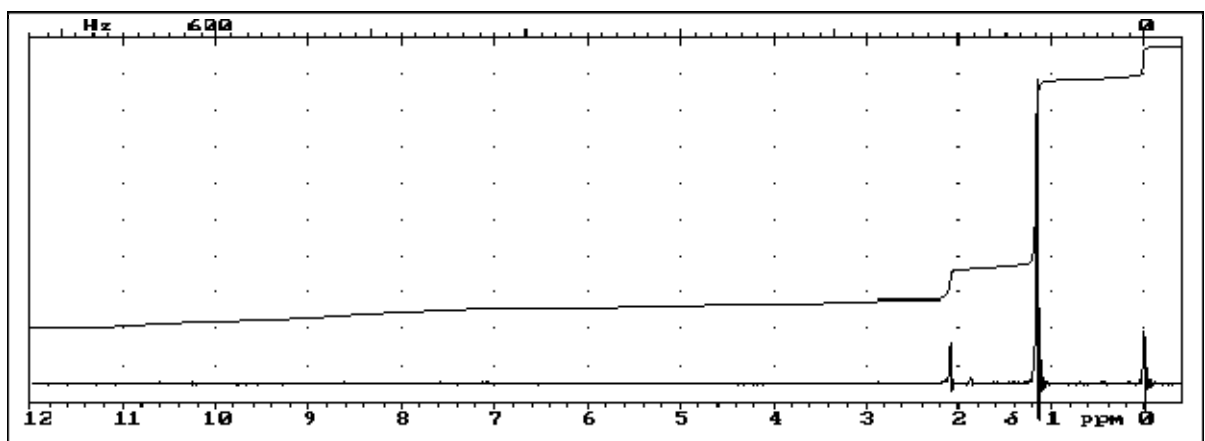
2. MS-Spektrum



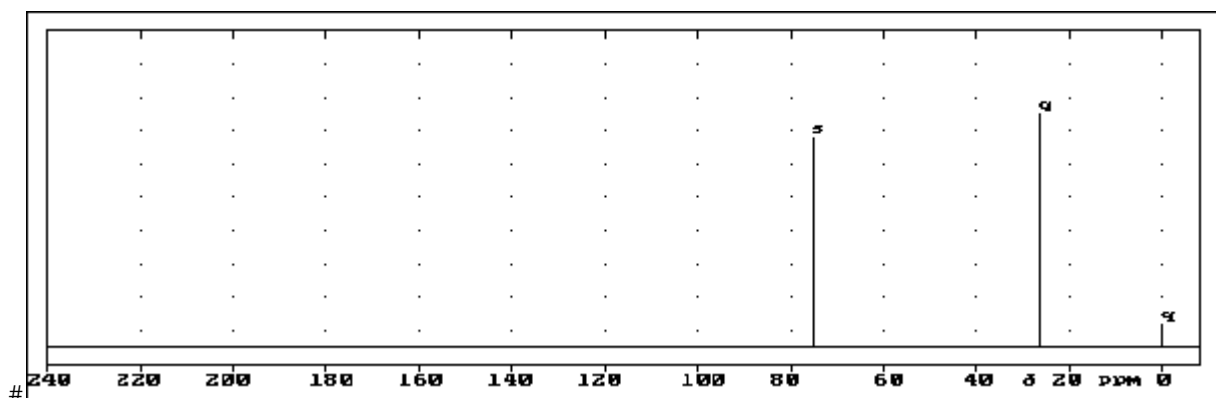
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



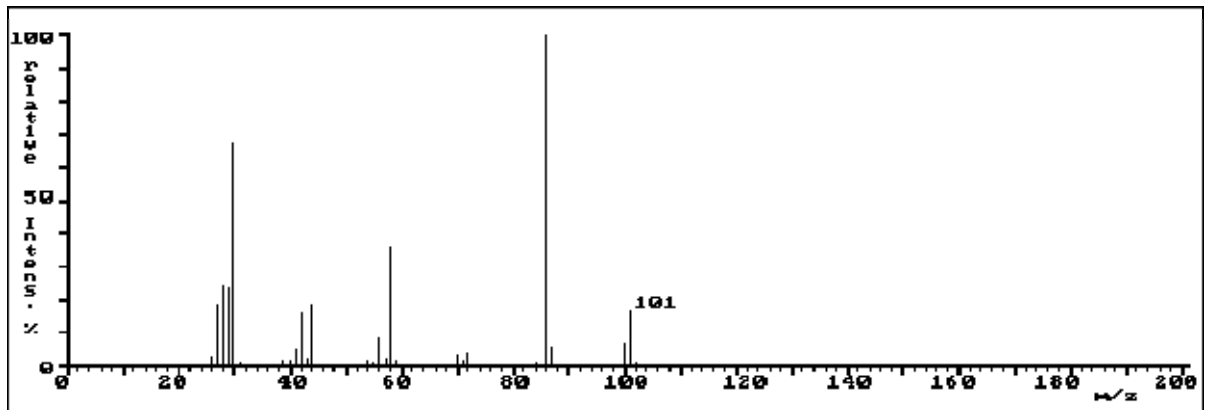
5. <sup>13</sup>C-NMR-Spektrum:



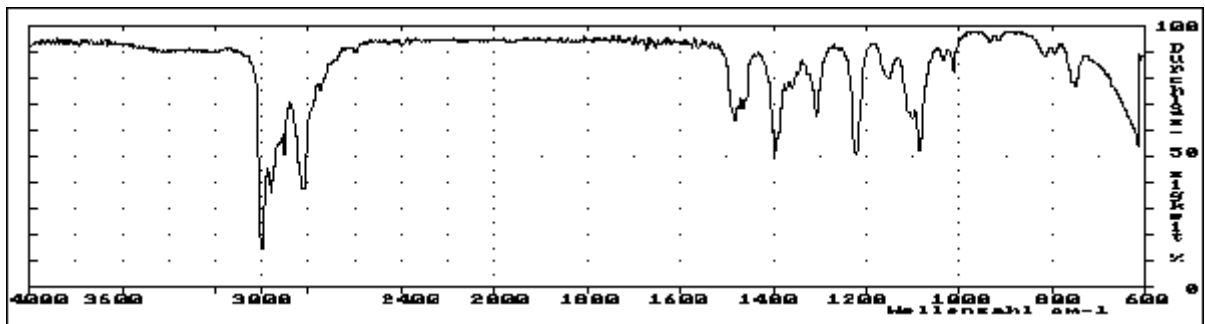
1. Quantitative Analyse:

C: 71.22 %	H: 14.94 %	O:				enthält: C, H, N
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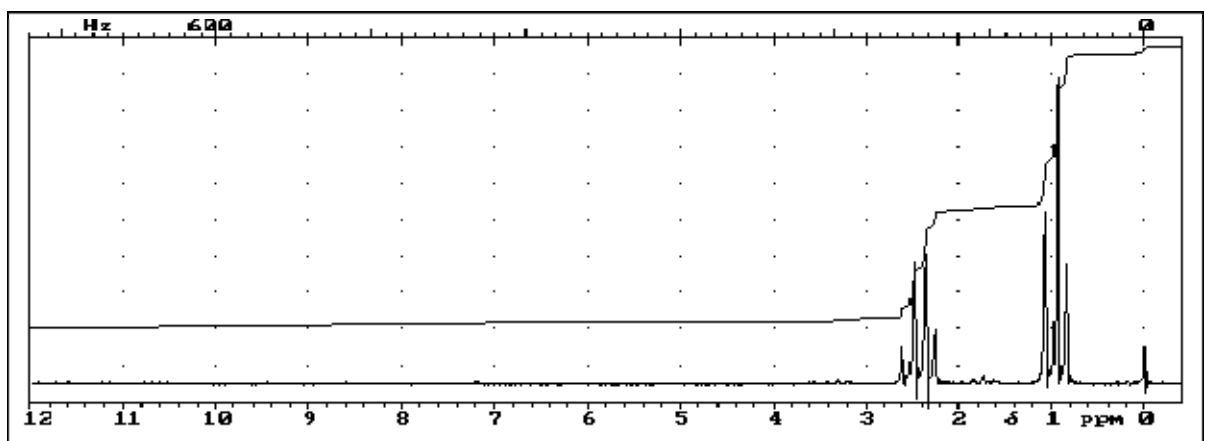
2. MS-Spektrum



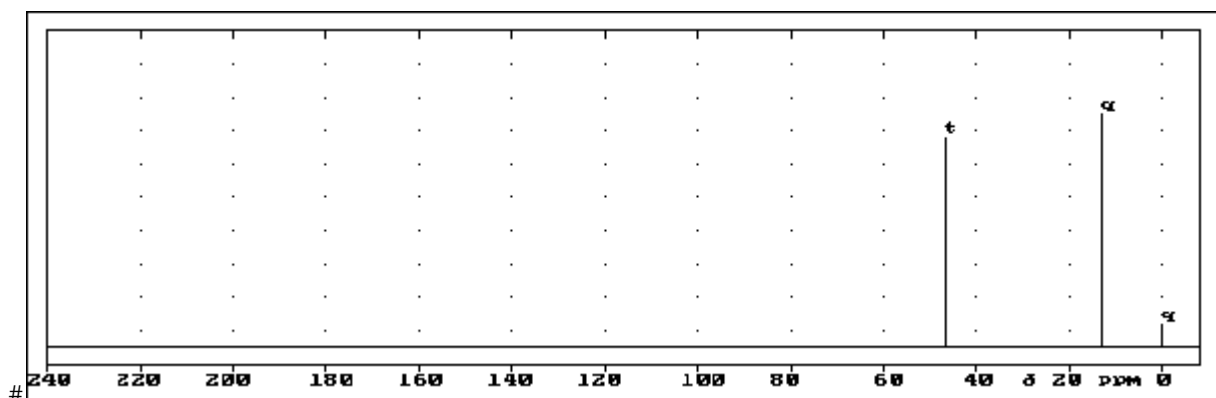
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



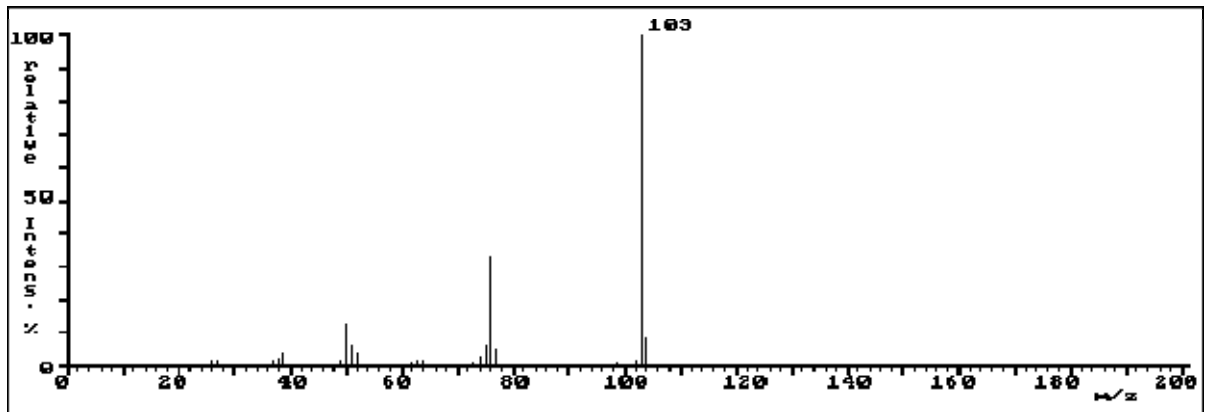
5. <sup>13</sup>C-NMR-Spektrum:



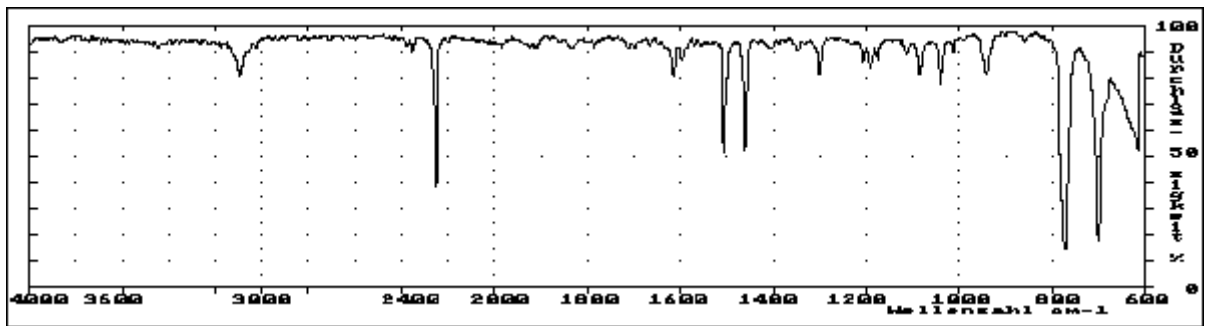
1. Quantitative Analyse:

C: 81.53 %	H: 04.89 %	O:				enthält: C, H, N, O
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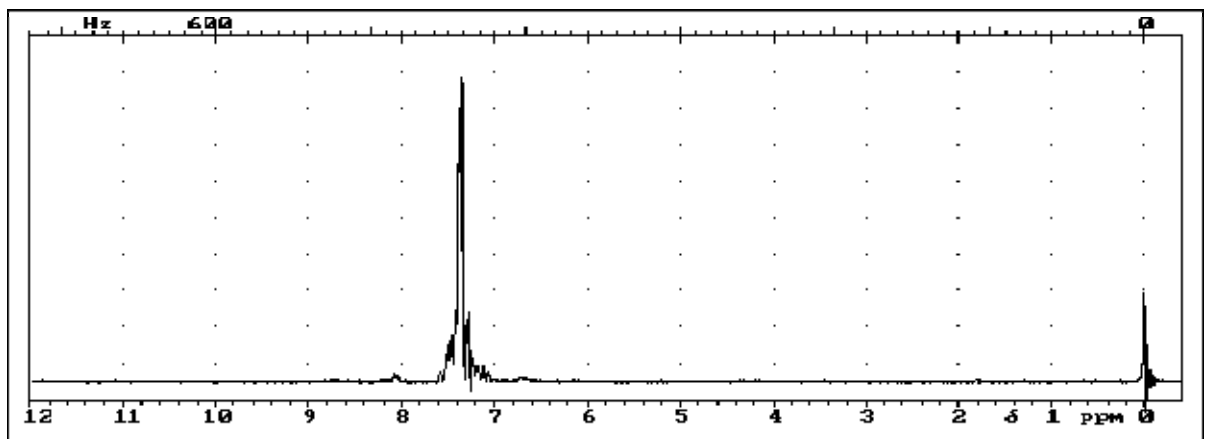
2. MS-Spektrum



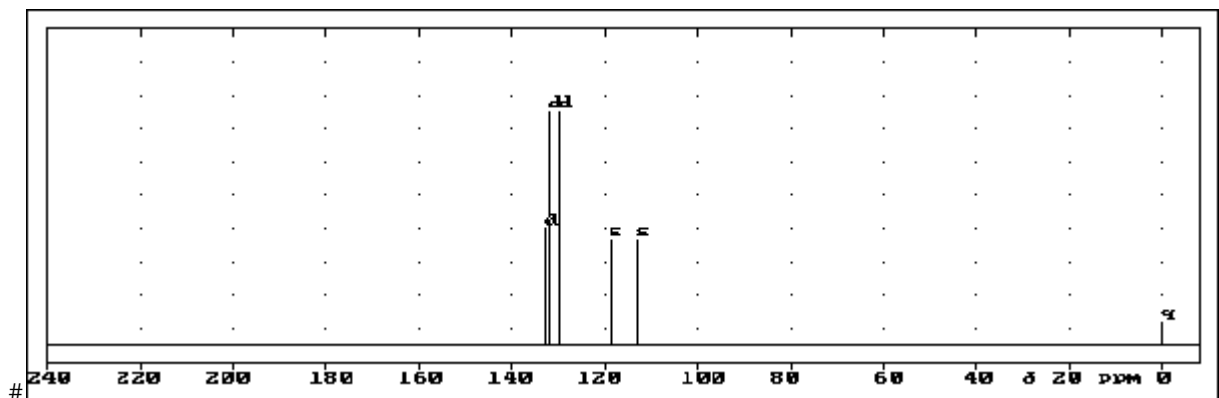
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



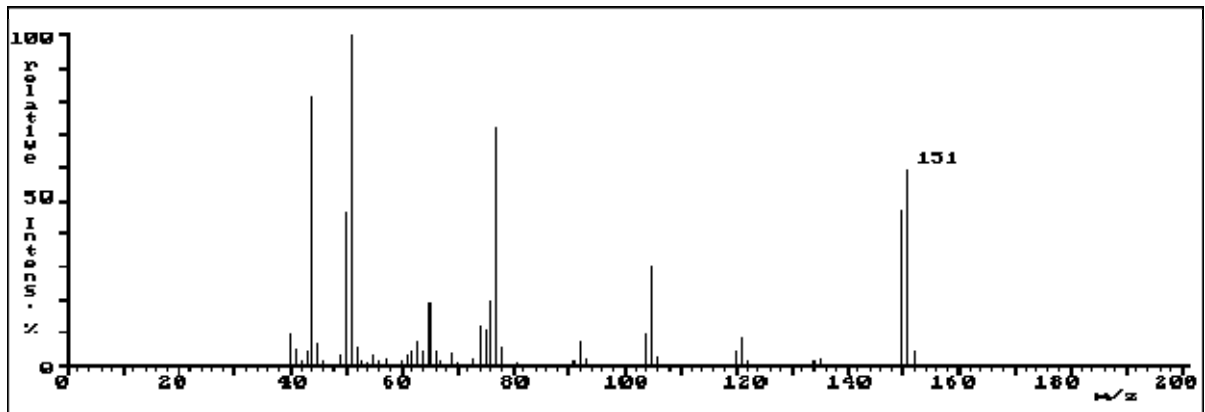
5. <sup>13</sup>C-NMR-Spektrum:



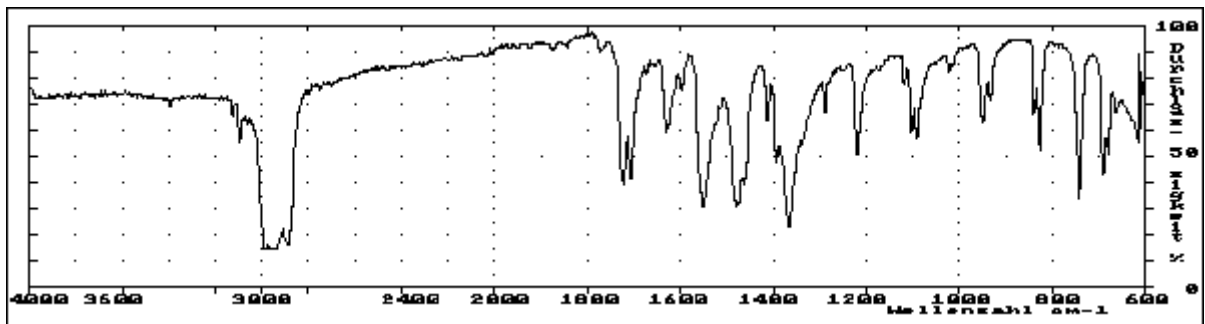
1. Quantitative Analyse:

C: 55.64 %	H: 03.33 %	O:				enthält: C, H, N, O
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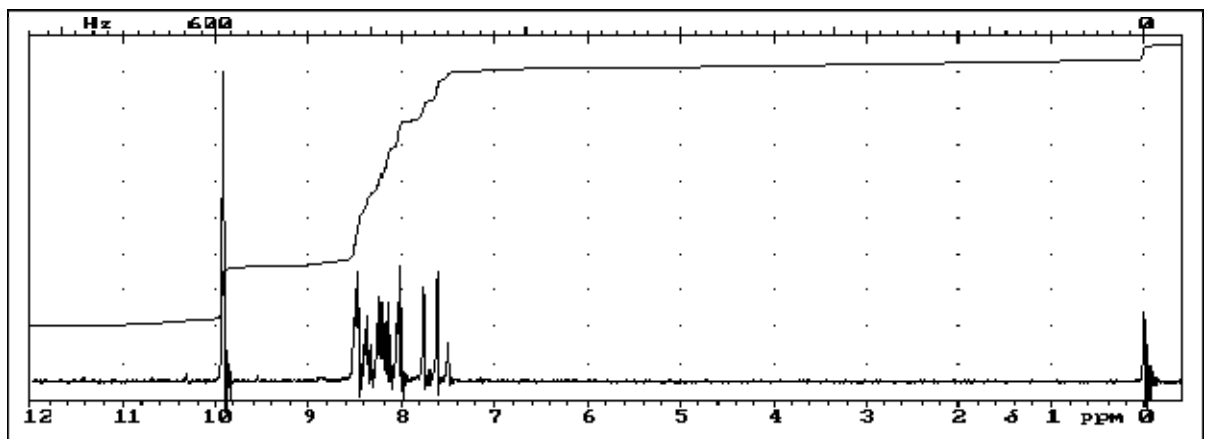
2. MS-Spektrum



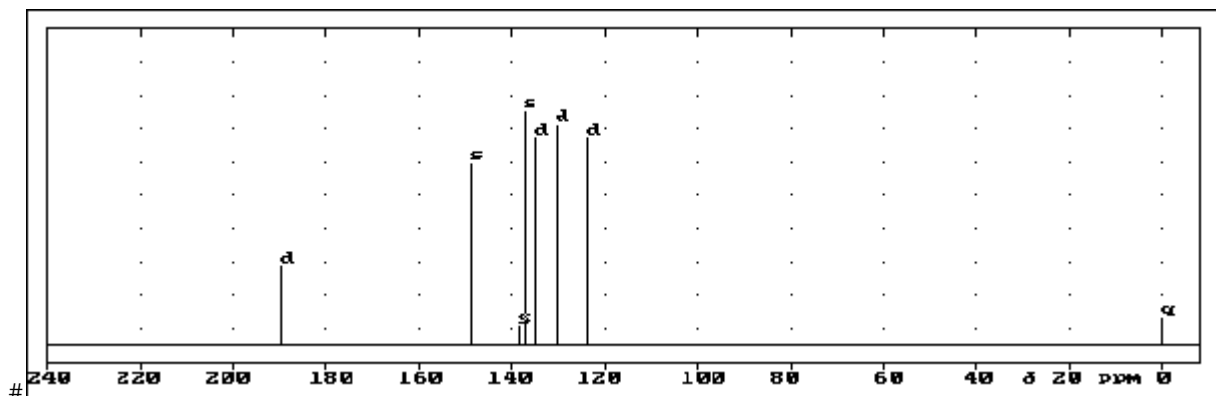
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



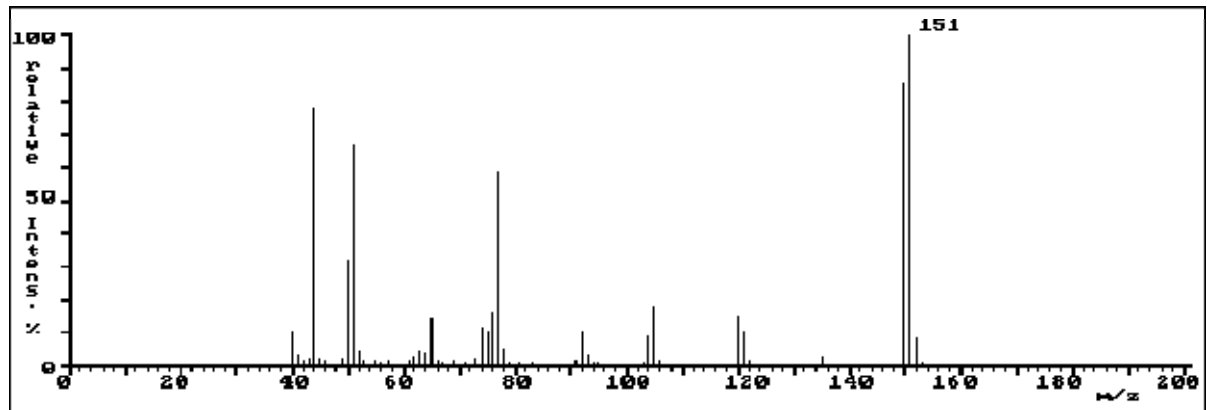
5. <sup>13</sup>C-NMR-Spektrum:



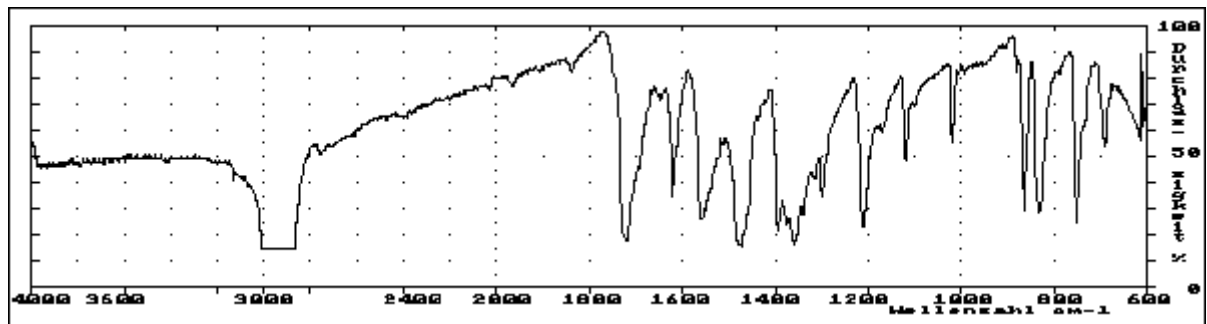
1. Quantitative Analyse:

C: 55.64 %	H: 03.33 %	O:				enthält: C, H, N, O
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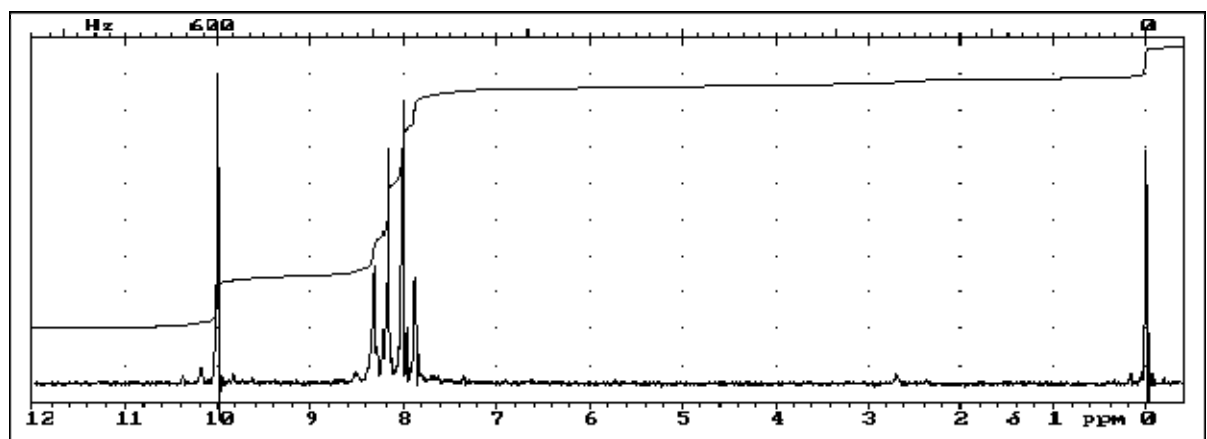
2. MS-Spektrum



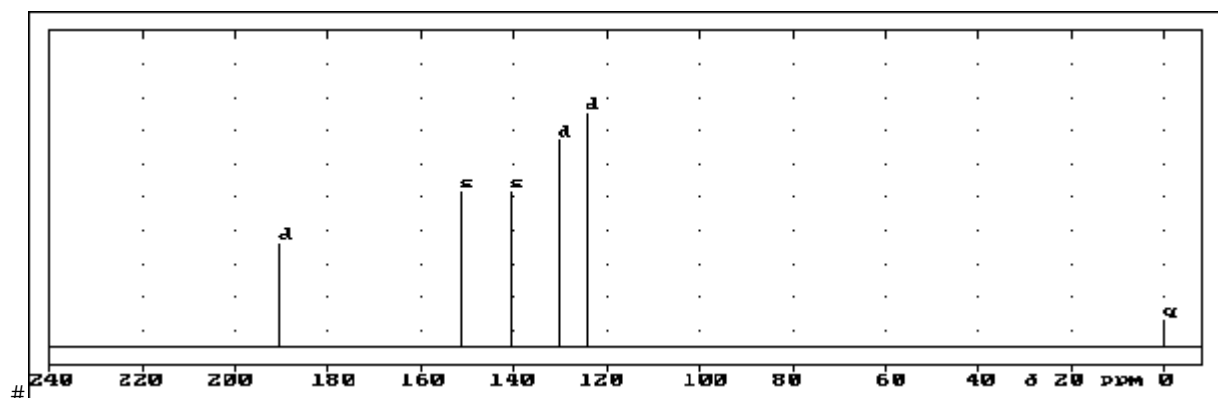
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



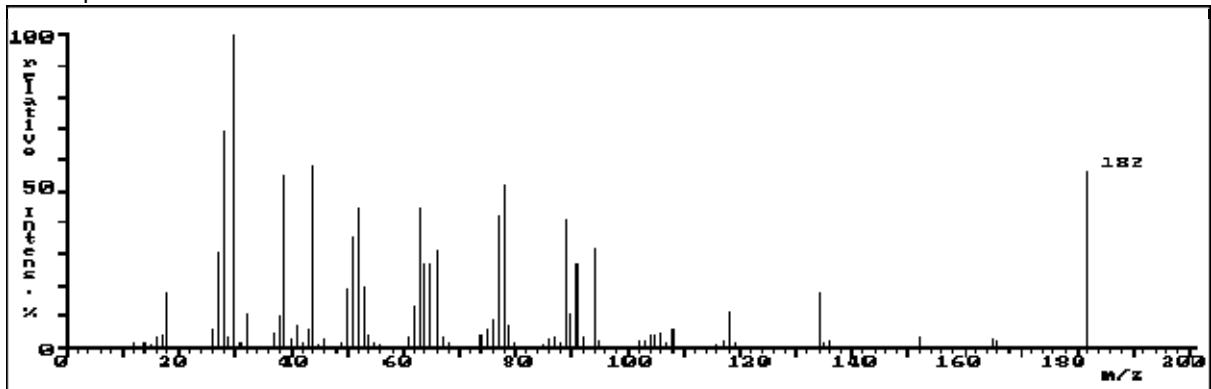
5. <sup>13</sup>C-NMR-Spektrum:



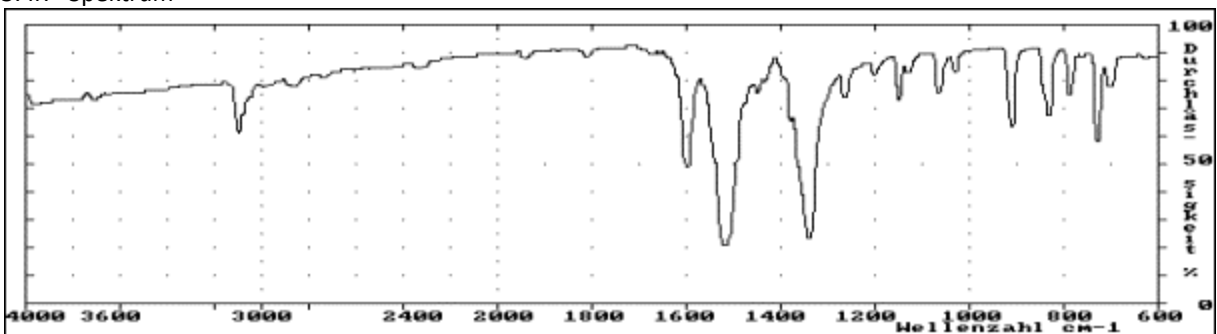
1. Quantitative Analyse:

C: 45.94 %	H: 03.22 %	O:				enthält: C, H, N, O
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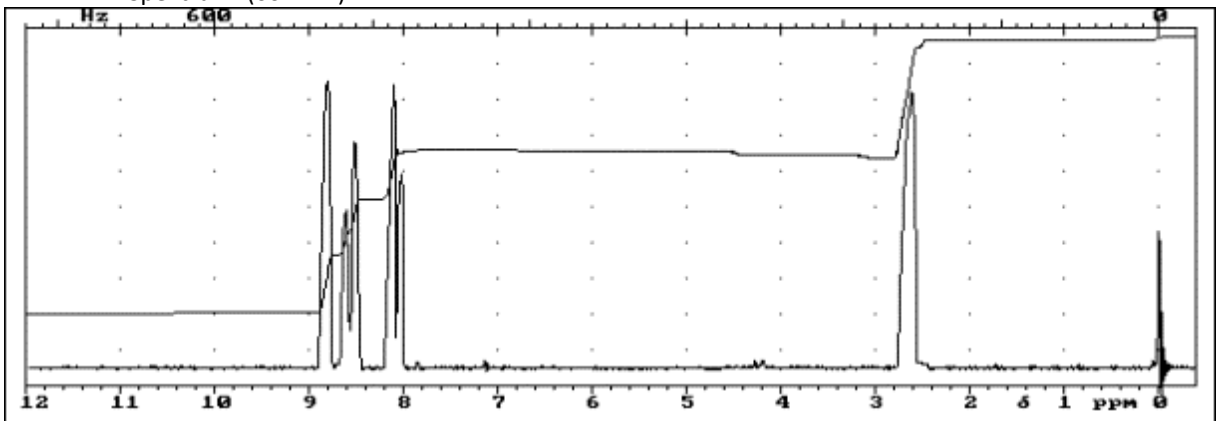
2. MS-Spektrum



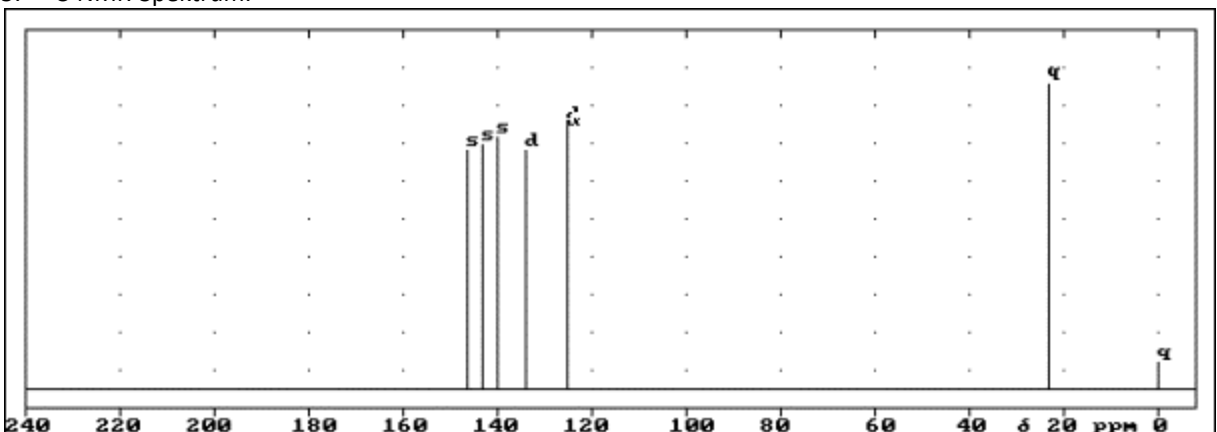
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



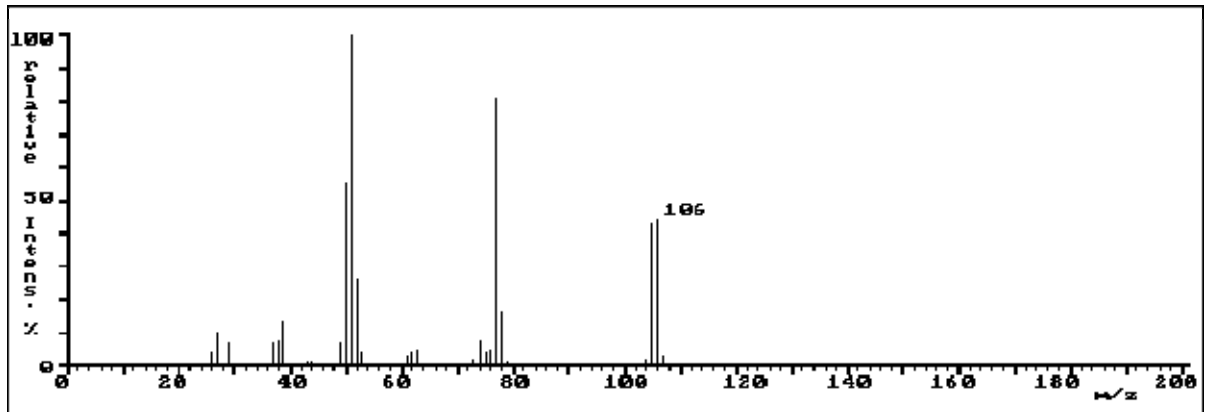
5. <sup>13</sup>C-NMR-Spektrum:



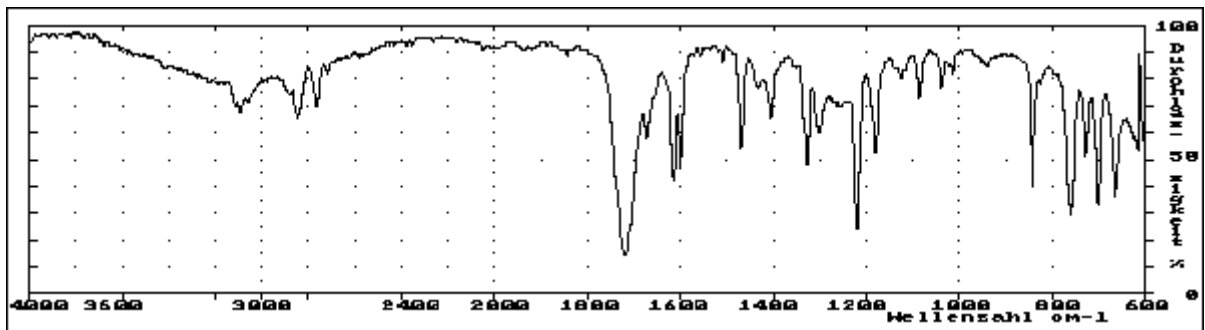
1. Quantitative Analyse:

C: 79.23 %	H: 05.70 %	O:				enthält: C, H, O
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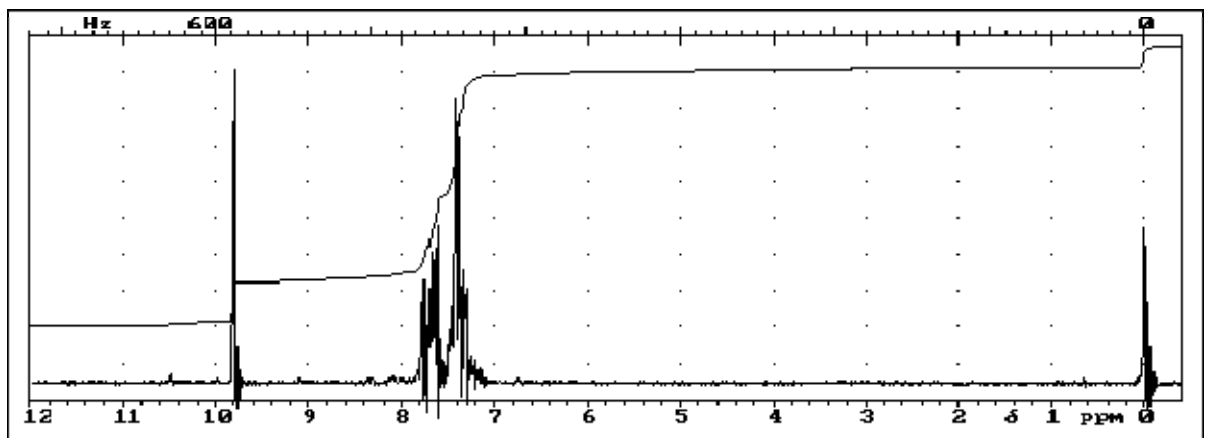
2. MS-Spektrum



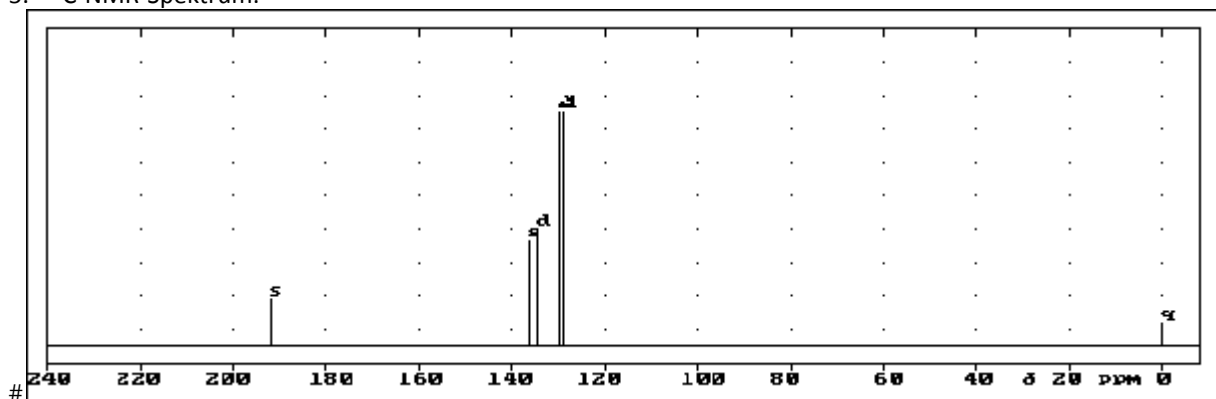
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



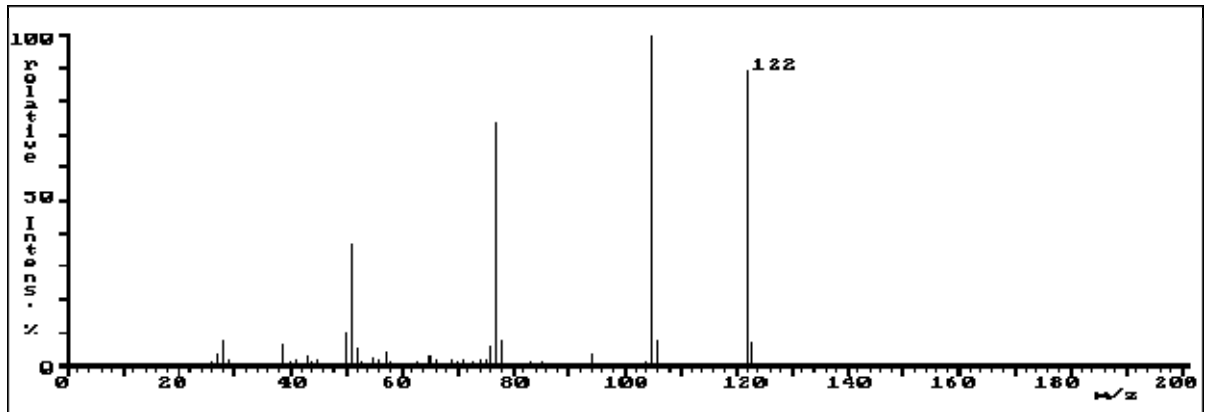
5. <sup>13</sup>C-NMR-Spektrum:



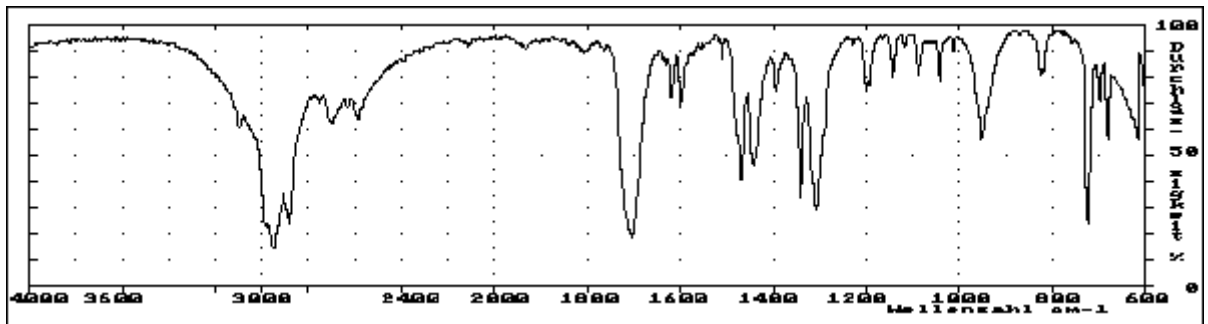
1. Quantitative Analyse:

C: 68.65 %	H: 04.95 %	O:				enthält: C, H, O
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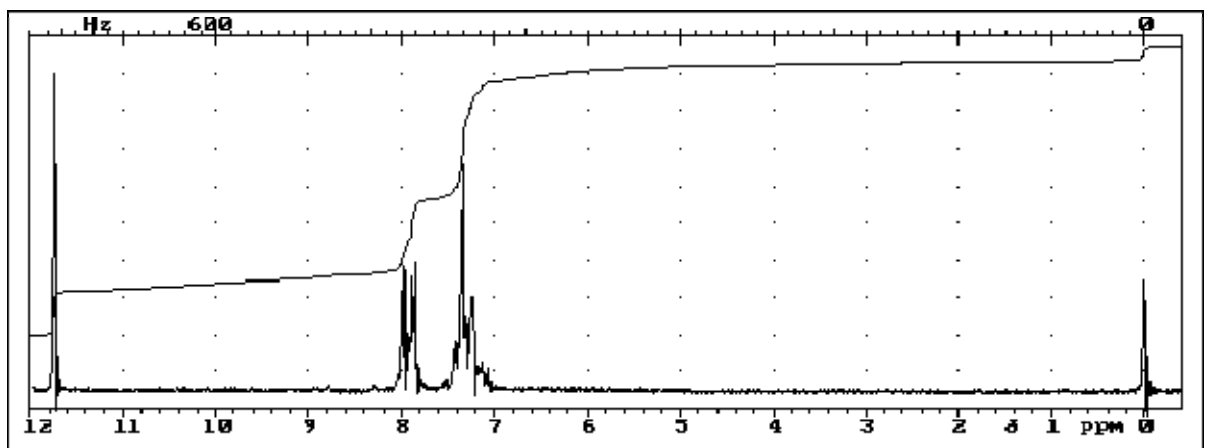
2. MS-Spektrum



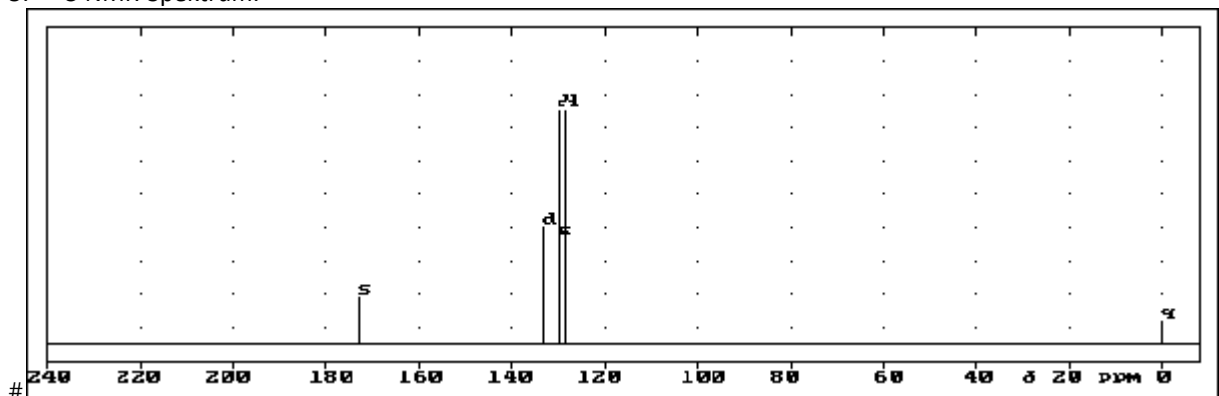
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

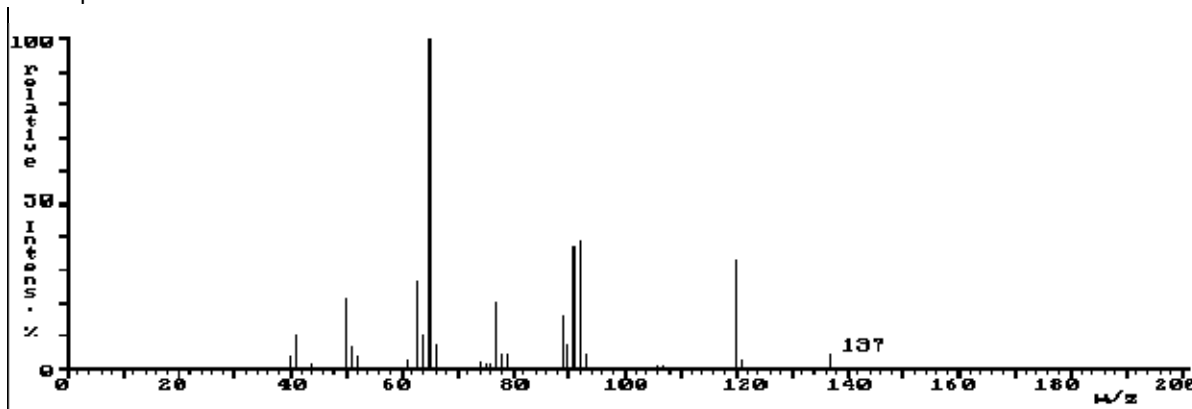




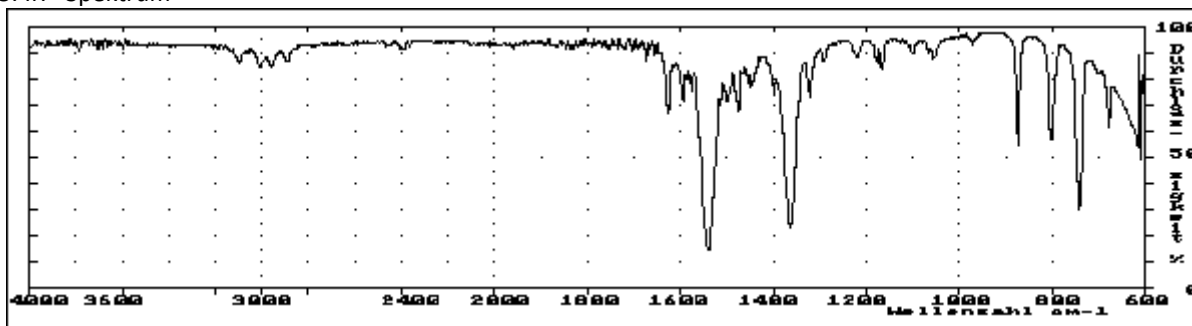
1. Quantitative Analyse:

C: 61.31 %	H: 05.14 %	O:				enthält: C, H, N, O
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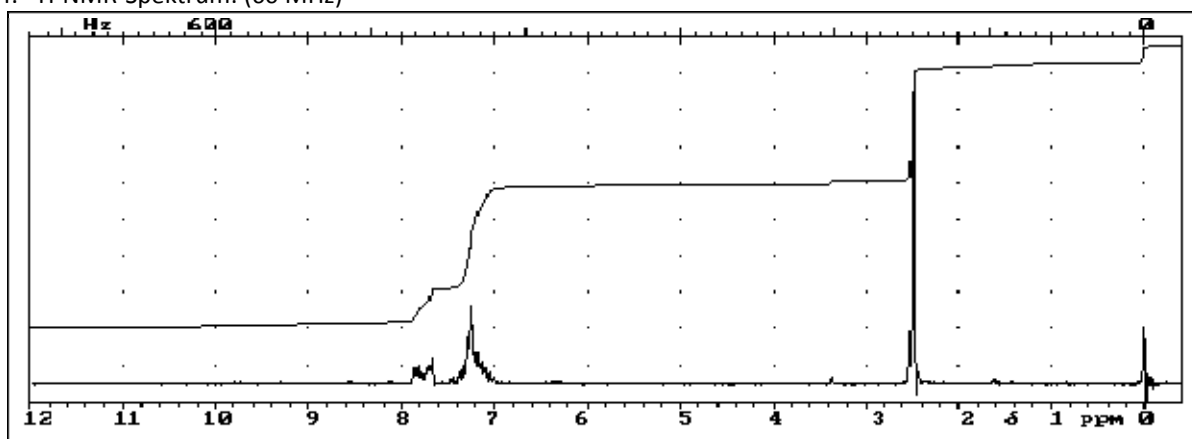
2. MS-Spektrum



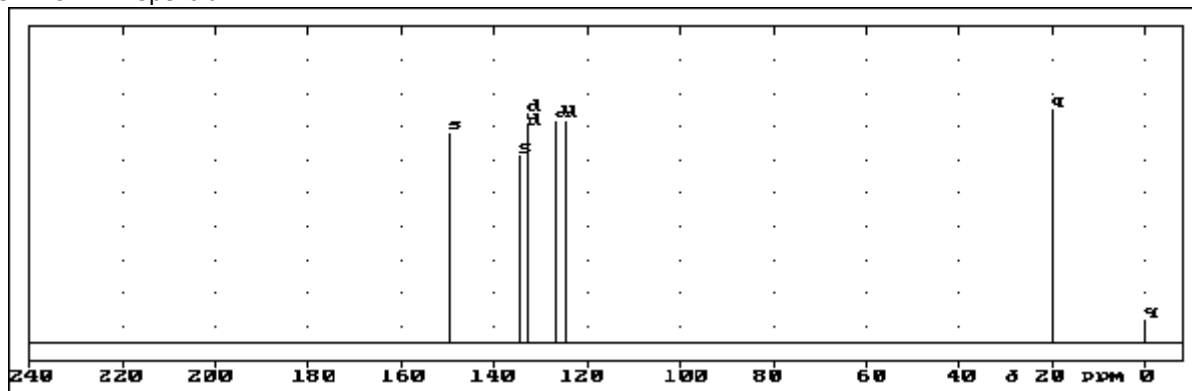
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



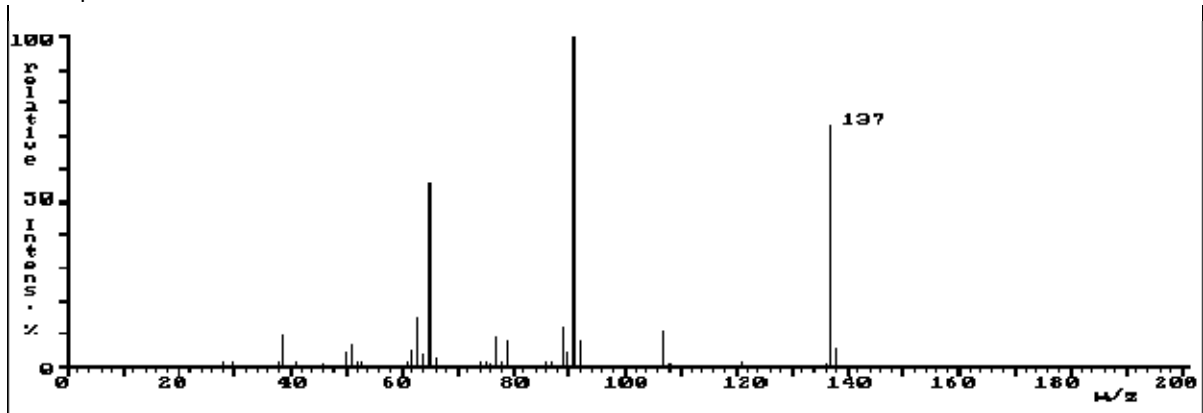
5. <sup>13</sup>C-NMR-Spektrum:



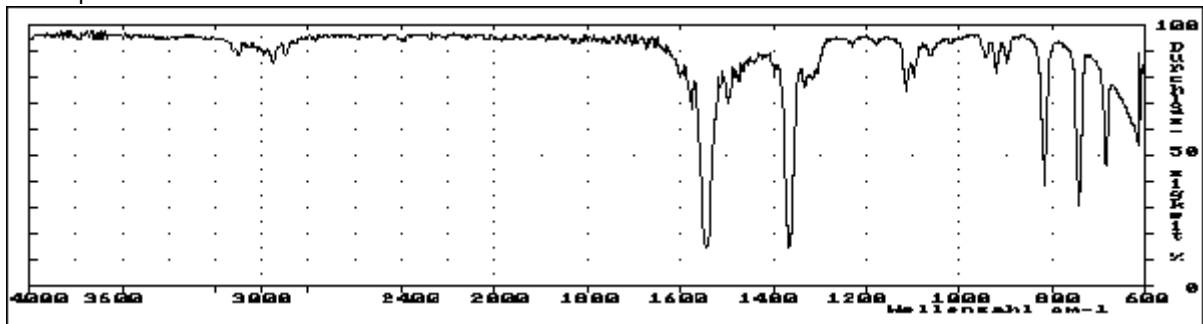
1. Quantitative Analyse:

C: 61.31 %	H: 05.14 %	O:				enthält: C, H, N, O
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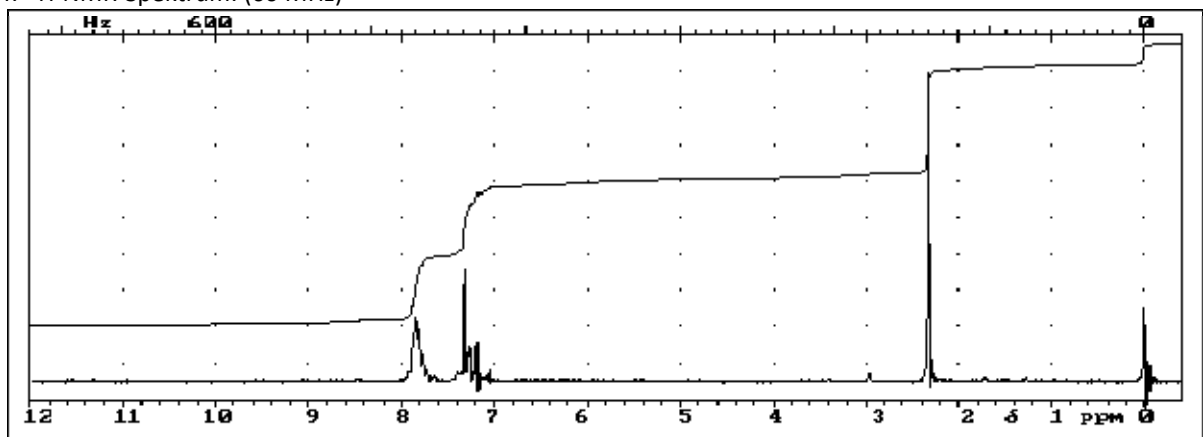
2. MS-Spektrum



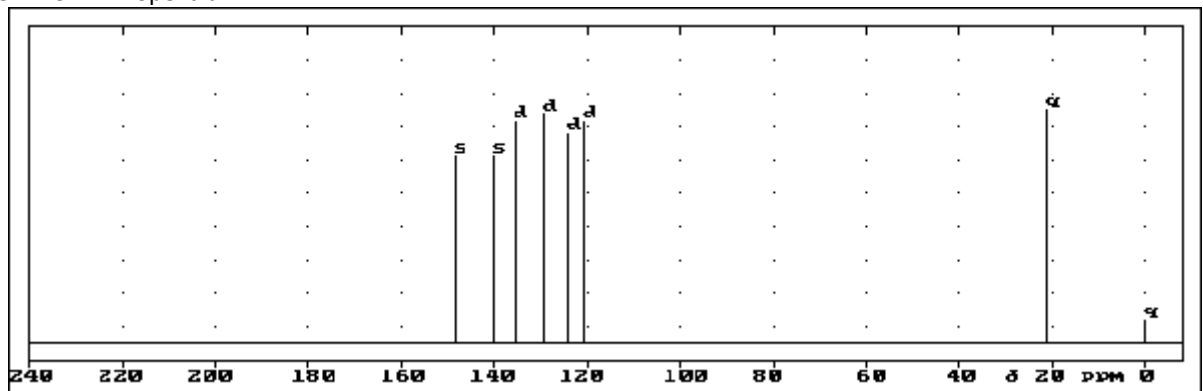
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



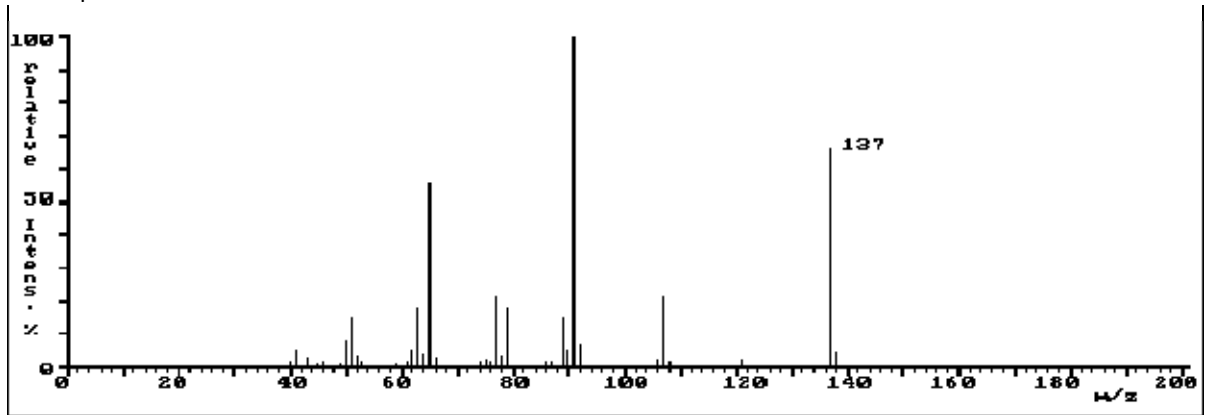
5. <sup>13</sup>C-NMR-Spektrum:



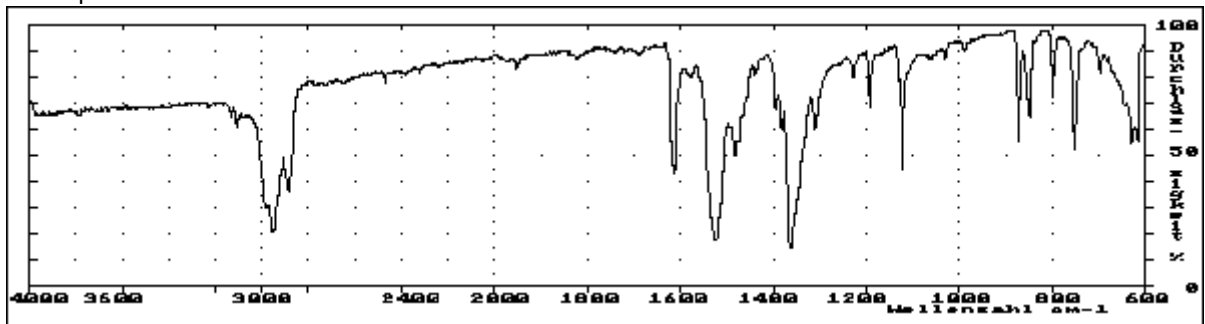
1. Quantitative Analyse:

C: 61.31 %	H: 05.14 %	O:				enthält: C, H, N, O
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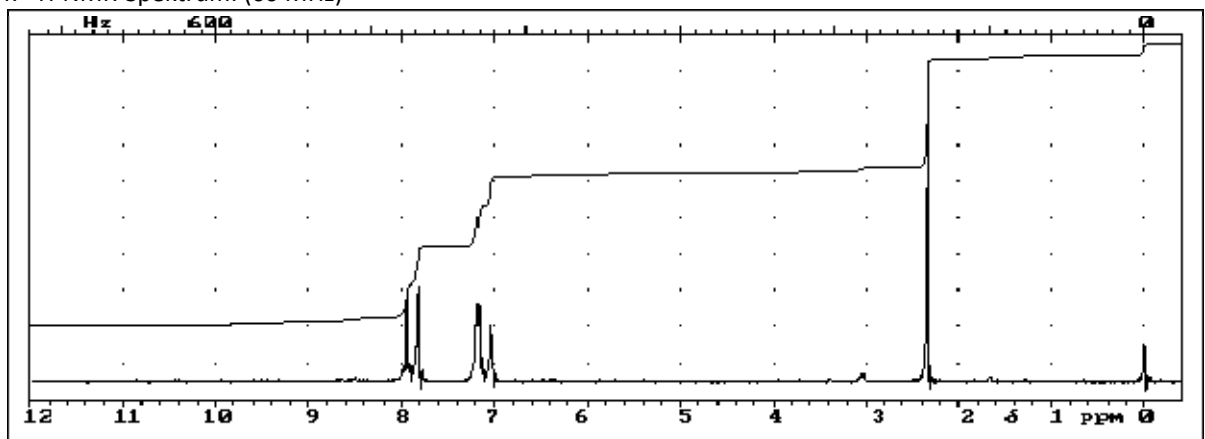
2. MS-Spektrum



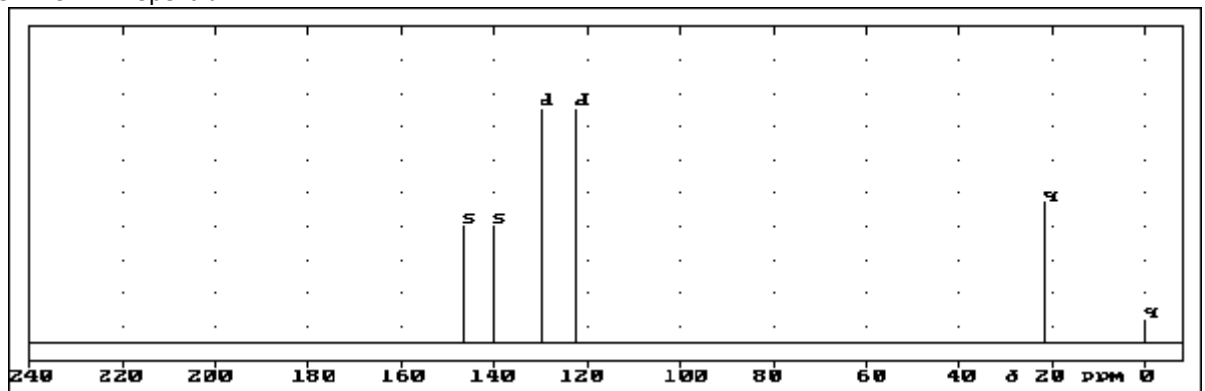
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



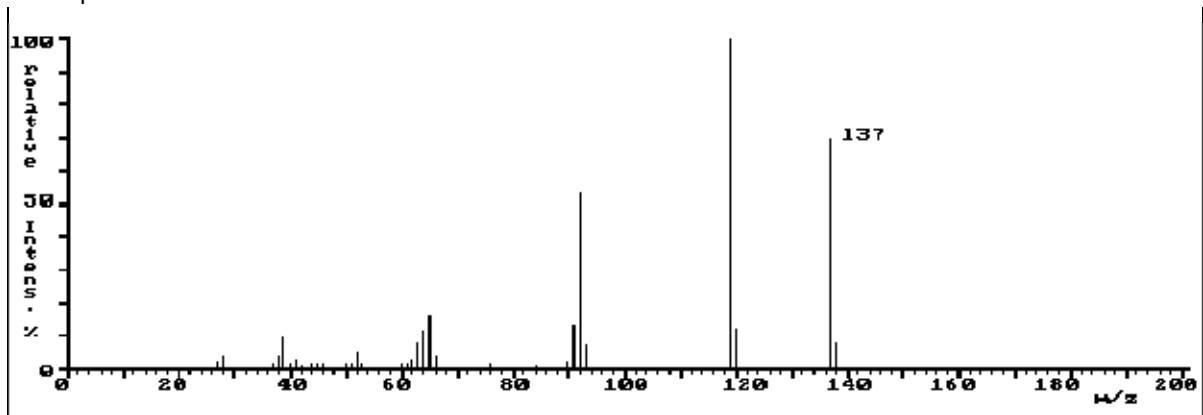
5. <sup>13</sup>C-NMR-Spektrum:



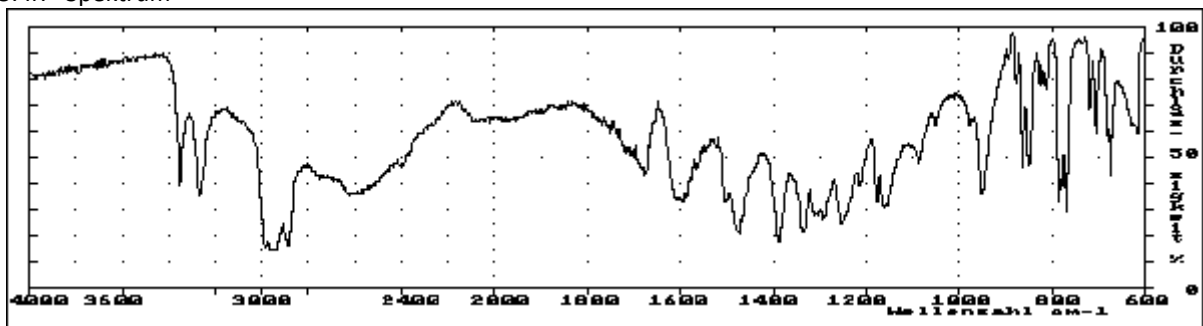
1. Quantitative Analyse:

C: 61.31 %	H: 05.14 %	O:				enthält: C, H, N, O
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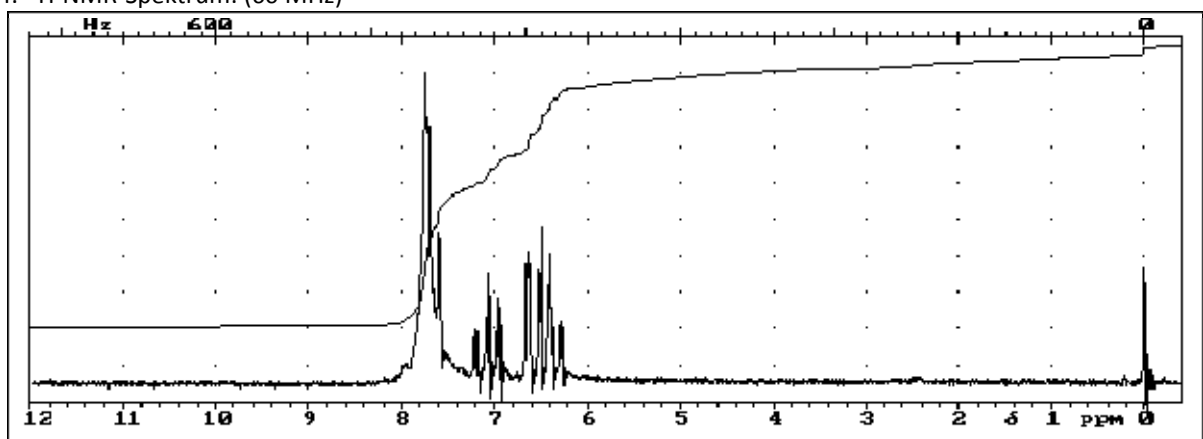
2. MS-Spektrum



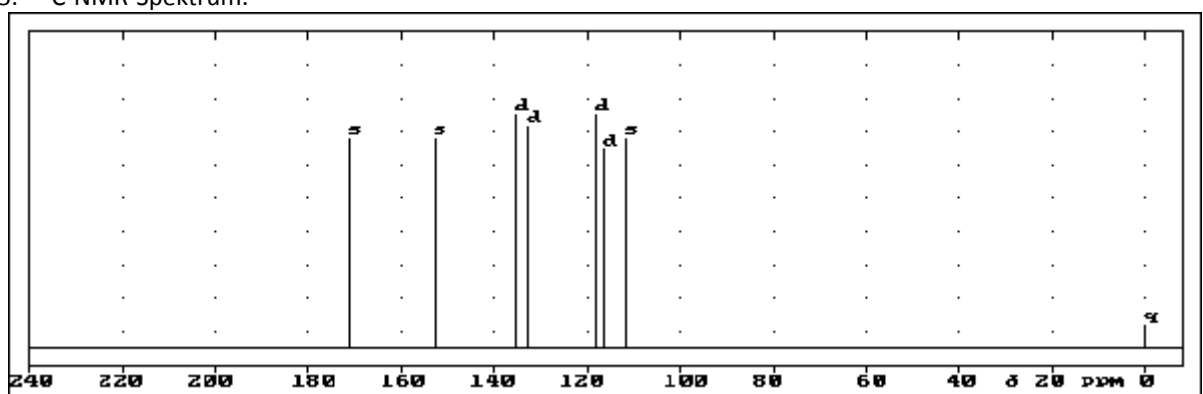
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



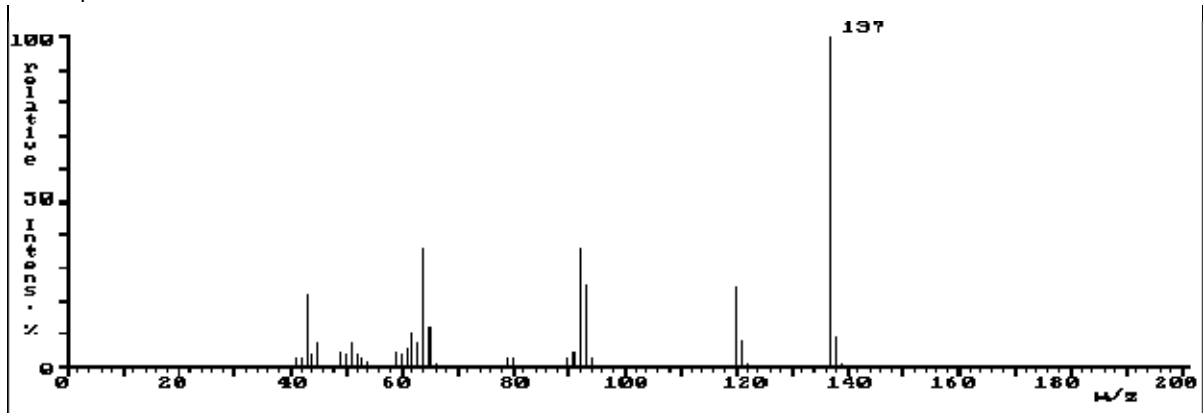
5. <sup>13</sup>C-NMR-Spektrum:



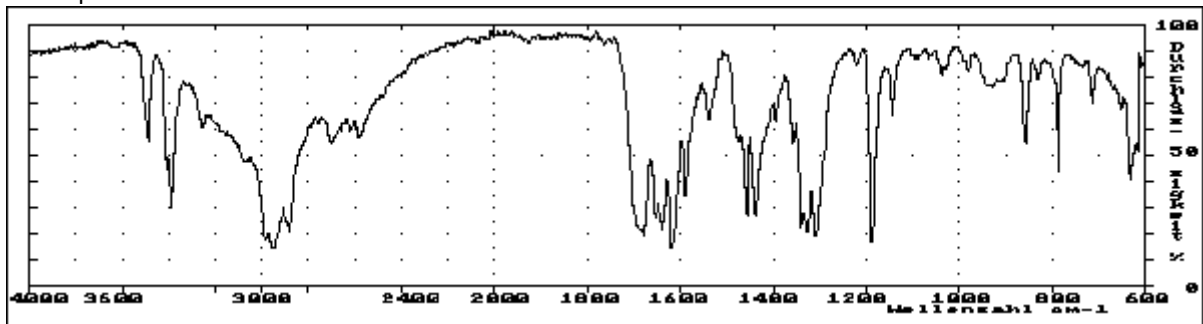
1. Quantitative Analyse:

C: 61.31 %	H: 05.14 %	O:				enthält: C, H, N, O
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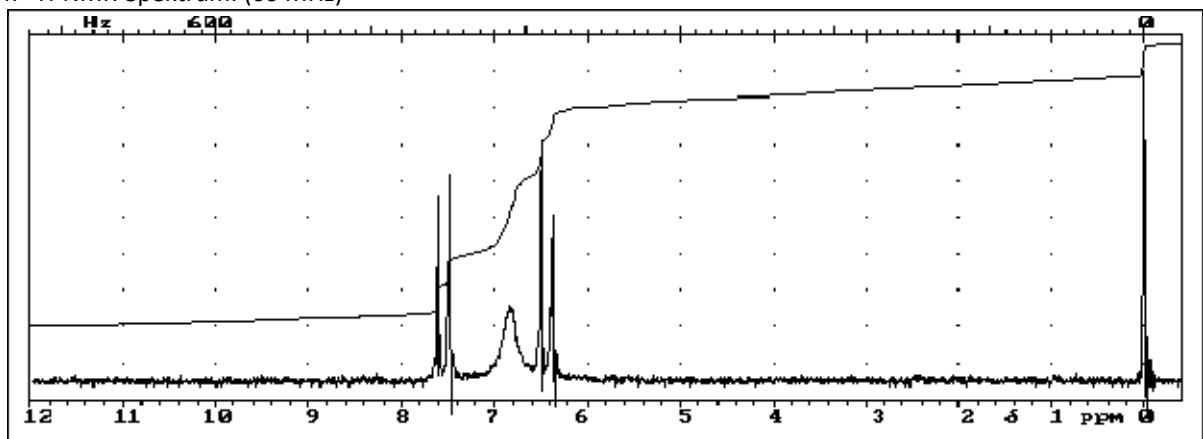
2. MS-Spektrum



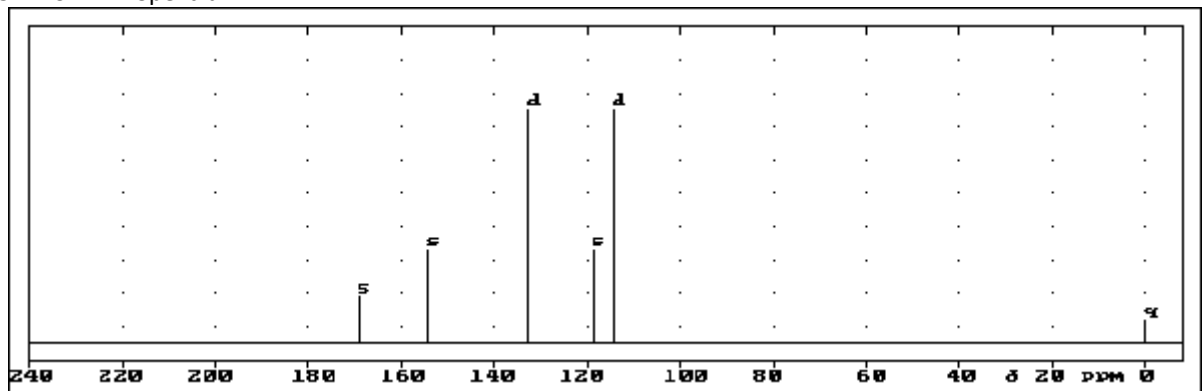
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



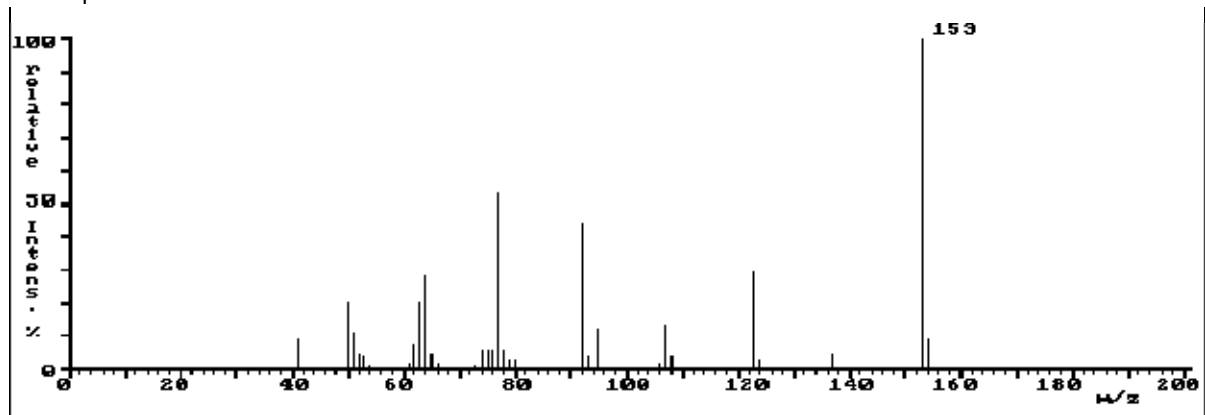
5. <sup>13</sup>C-NMR-Spektrum:



1. Quantitative Analyse:

C: 54.90 %	H: 04.61 %	O:				enthält: C, H, N, O
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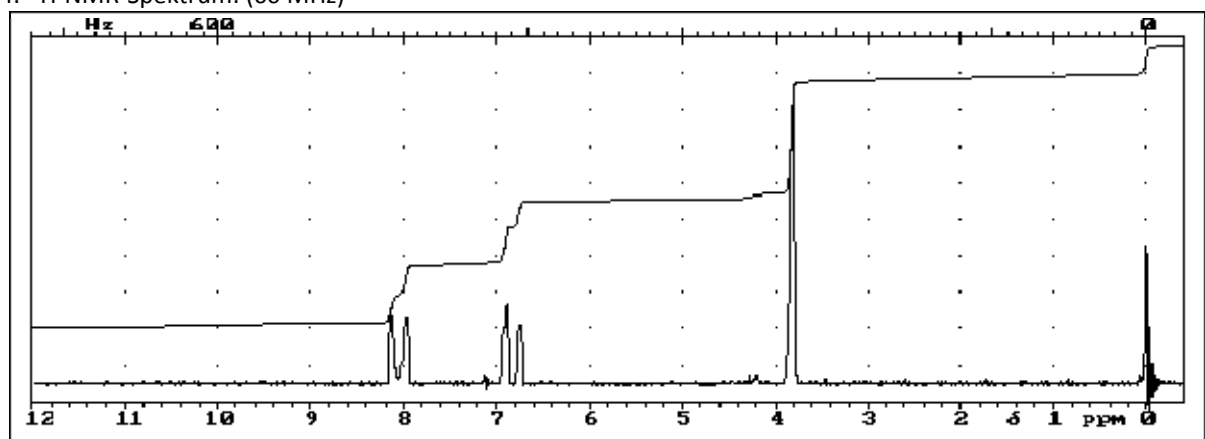
2. MS-Spektrum



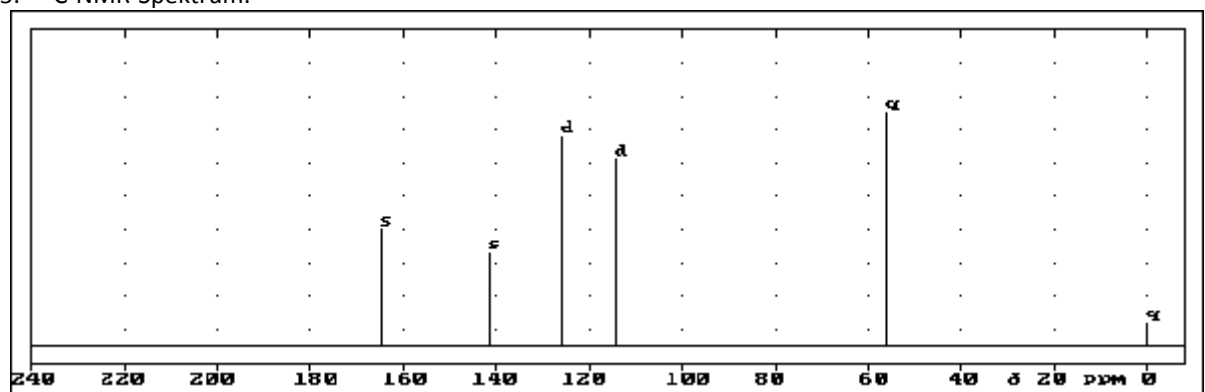
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



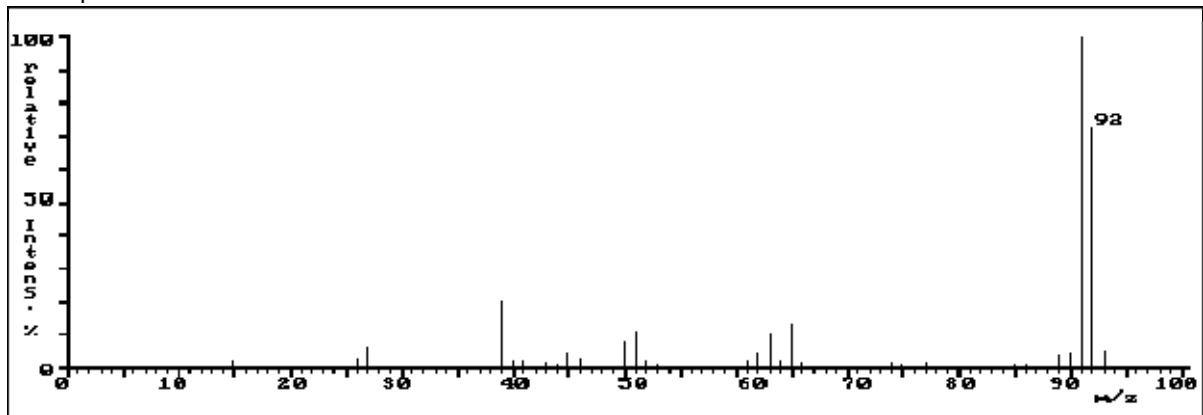
5. <sup>13</sup>C-NMR-Spektrum:



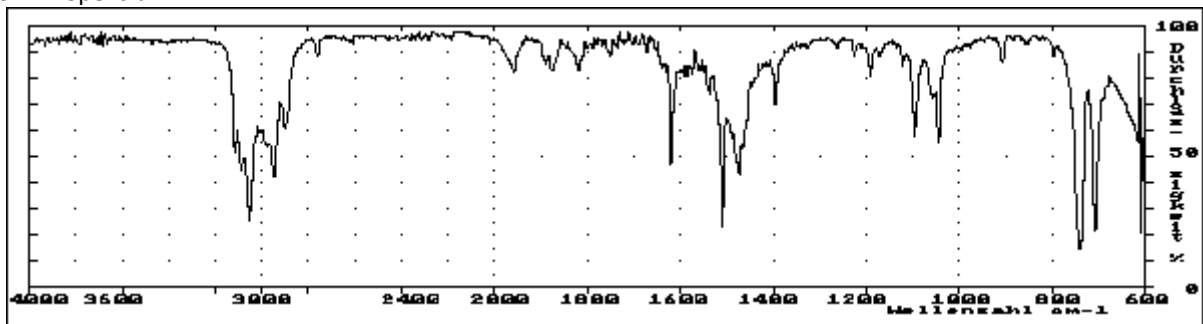
1. Quantitative Analyse:

C: 91.25 %	H: 08.75 %	O:				enthält: C, H
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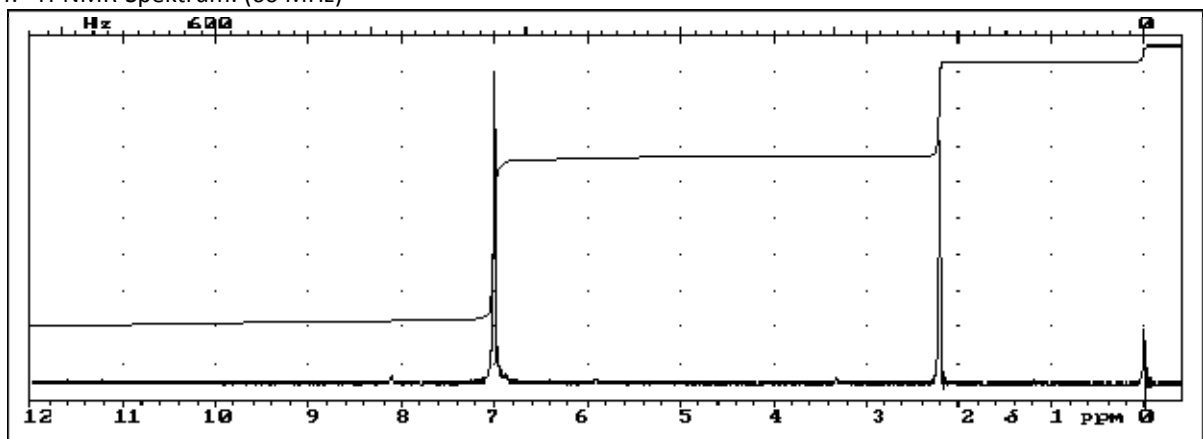
2. MS-Spektrum



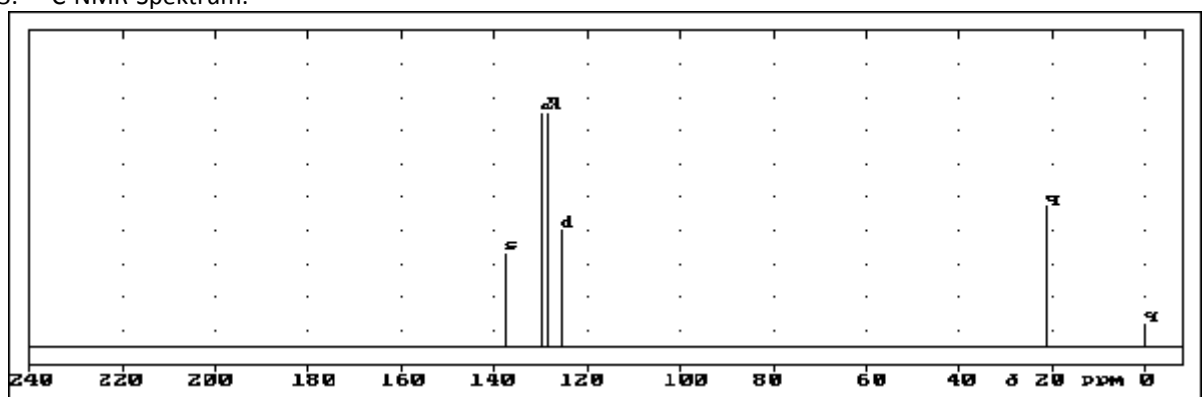
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



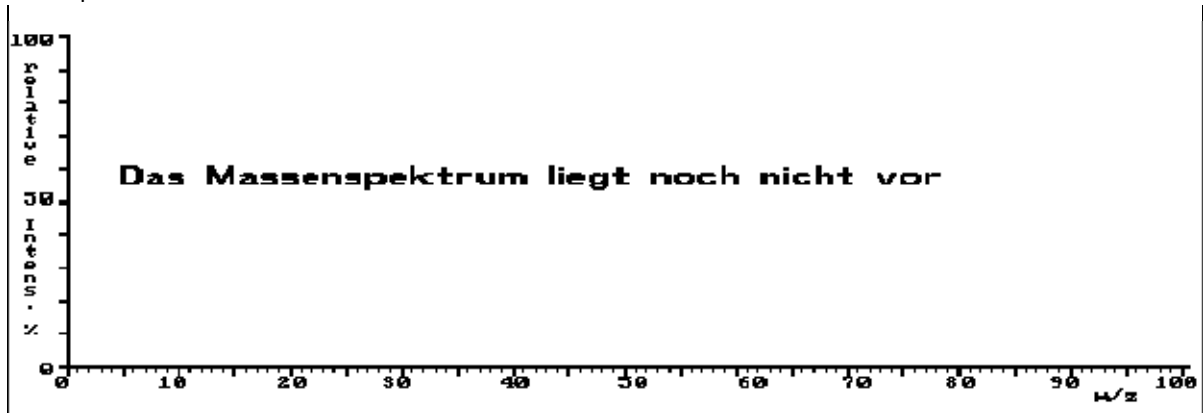
5. <sup>13</sup>C-NMR-Spektrum:



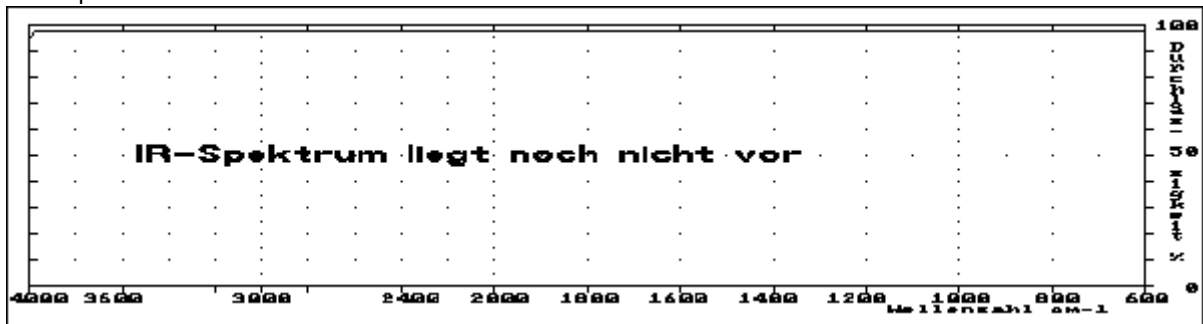
1. Quantitative Analyse:

C: 45.19 %	H: 04.33 %	O:				enthält: C, H, Br, N
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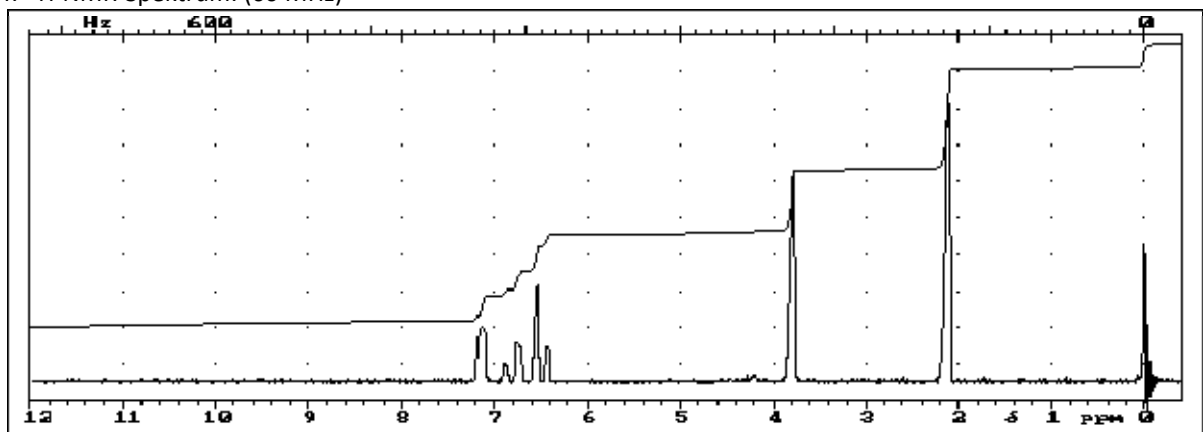
2. MS-Spektrum



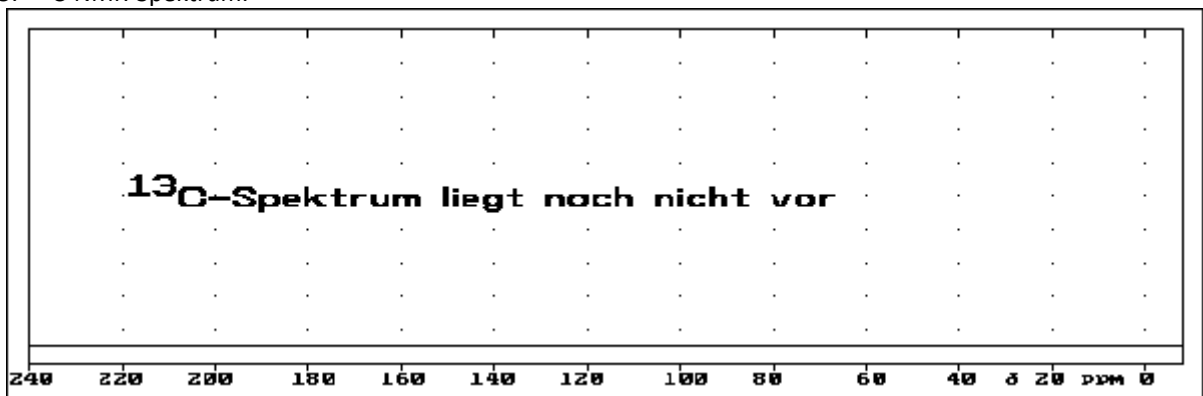
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

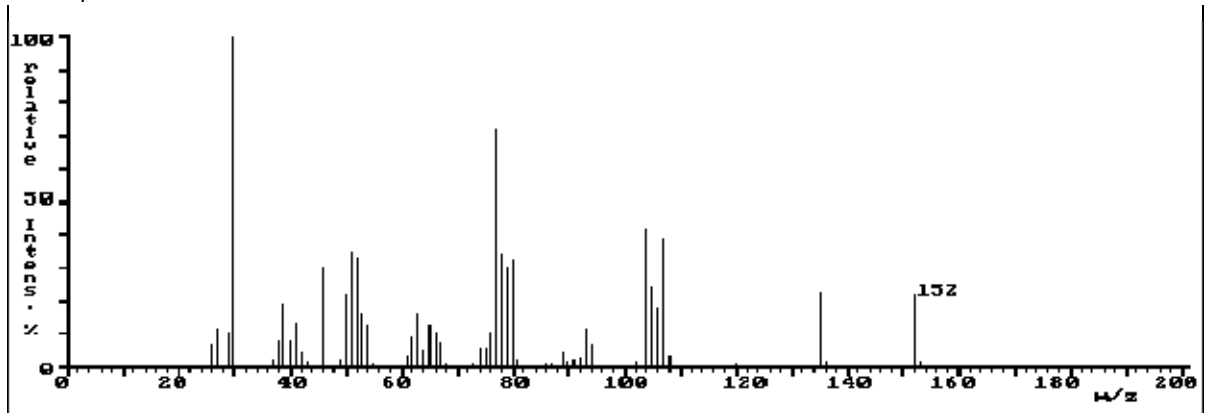




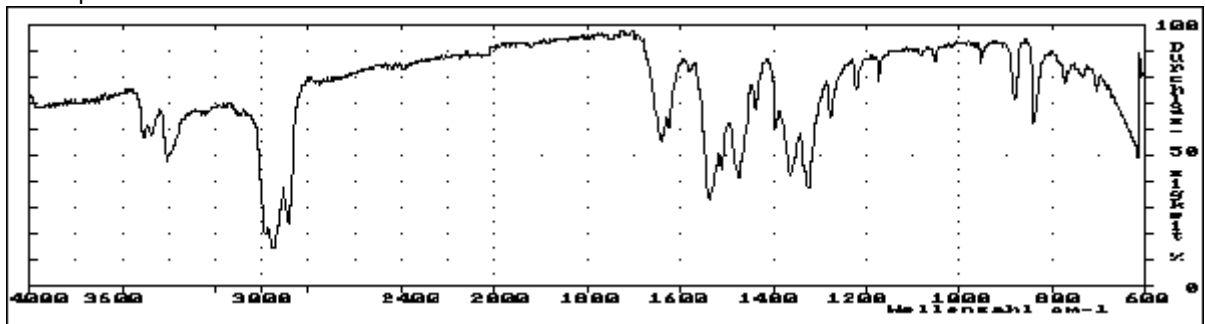
1. Quantitative Analyse:

C: 55.26 %	H: 05.30 %	O:				enthält: C, H, N, O
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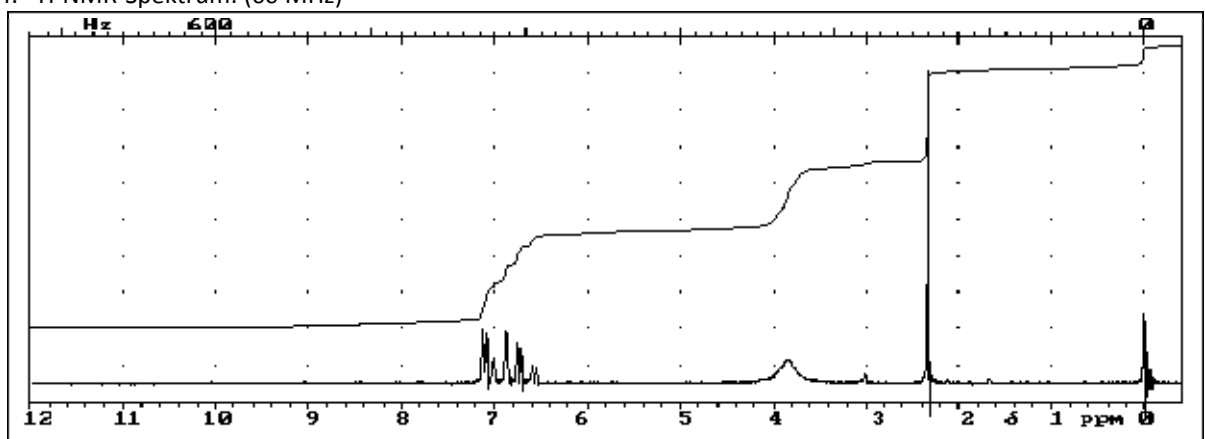
2. MS-Spektrum



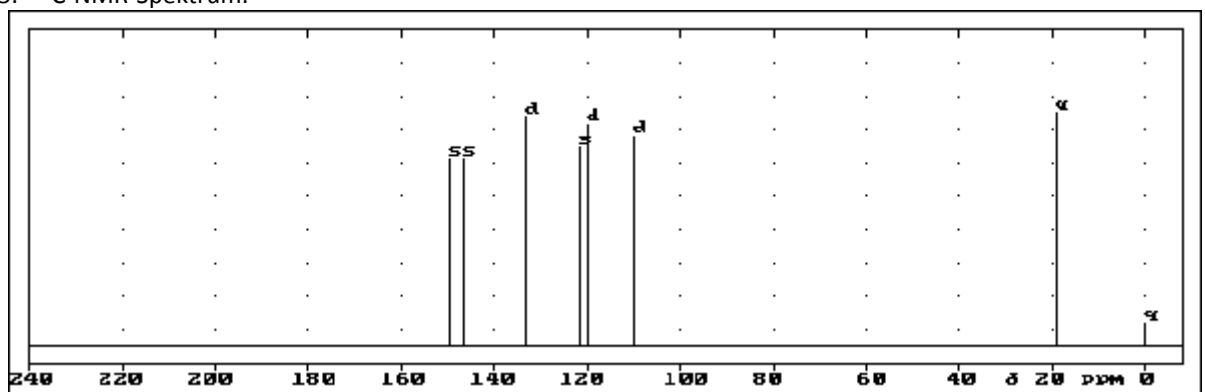
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



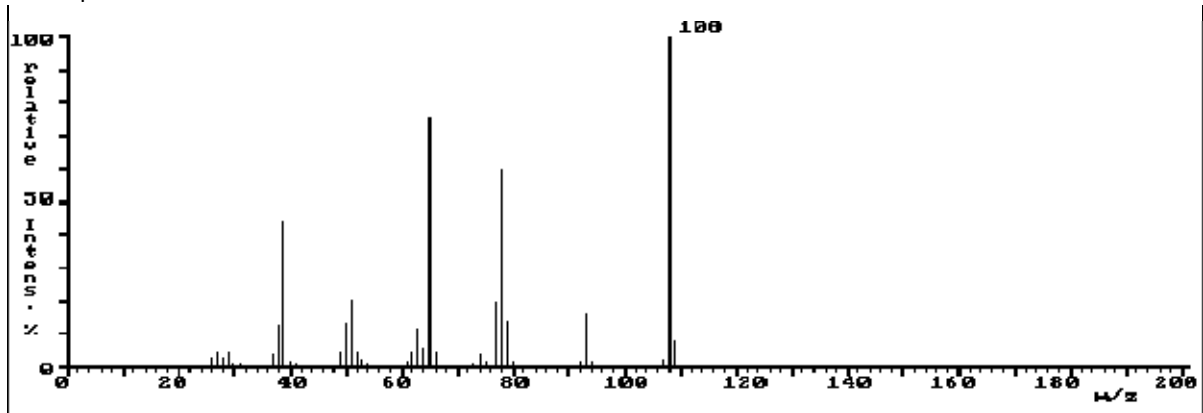
5. <sup>13</sup>C-NMR-Spektrum:



1. Quantitative Analyse:

C: 77.75%	H: 07.46 %	O:				enthält: C, H, O
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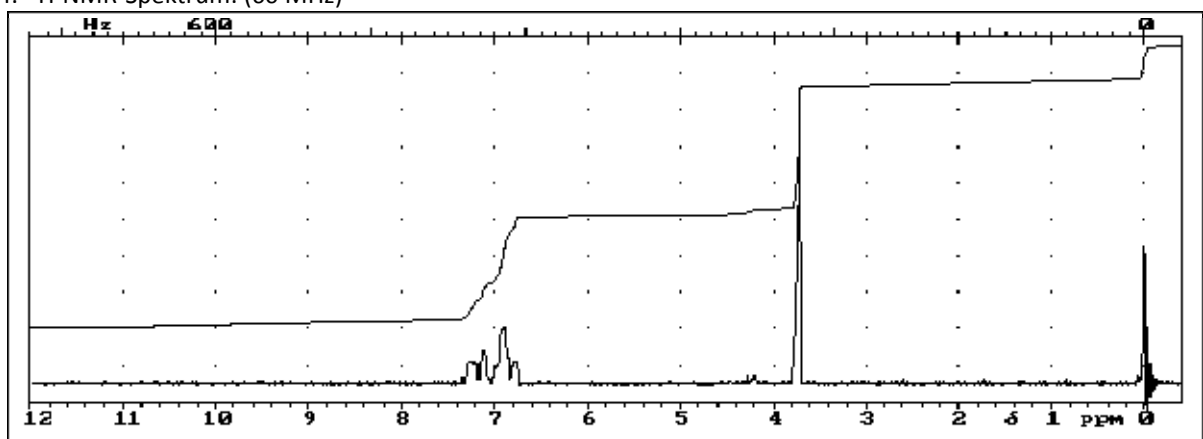
2. MS-Spektrum



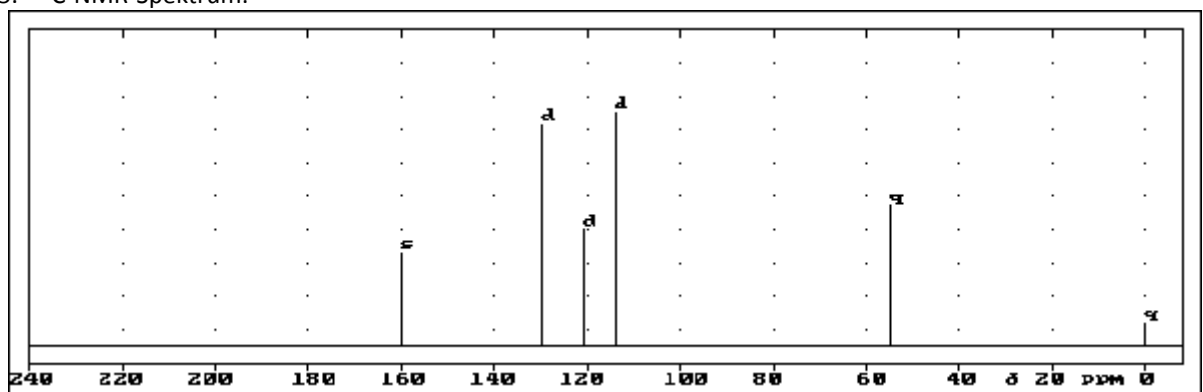
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



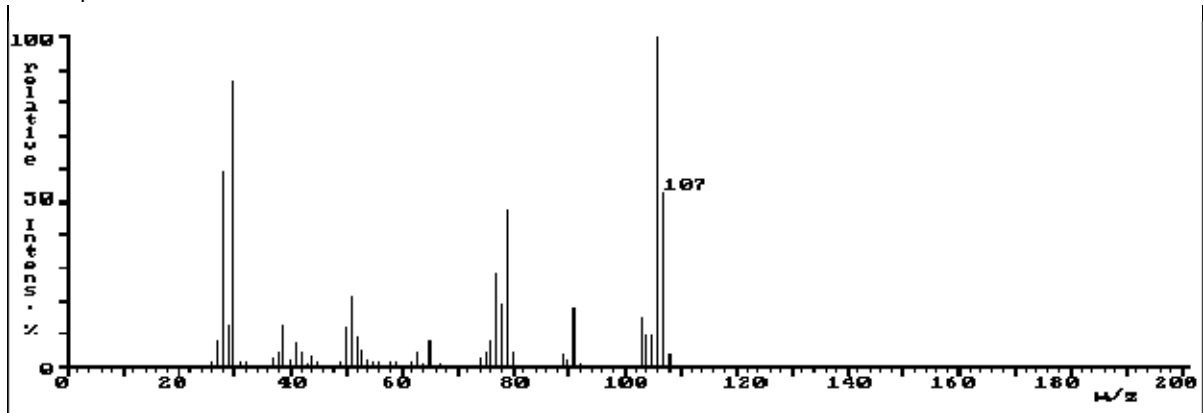
5. <sup>13</sup>C-NMR-Spektrum:



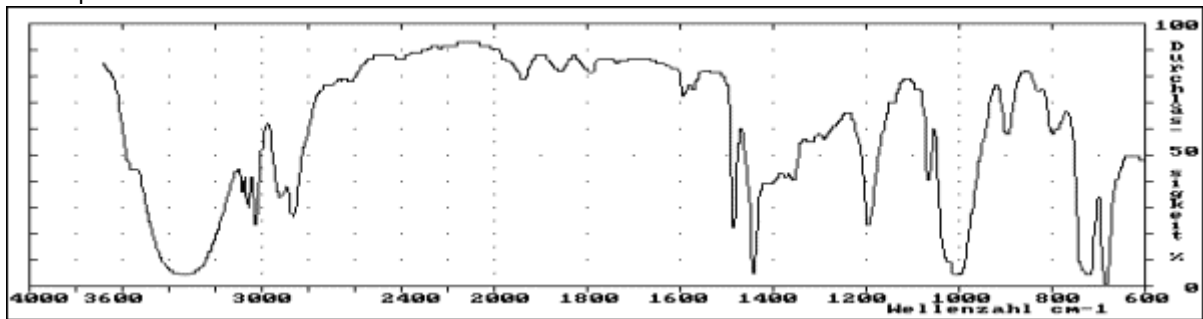
1. Quantitative Analyse:

C: 77.75 %	H: 07.46 %	O:				enthält: C, H, O
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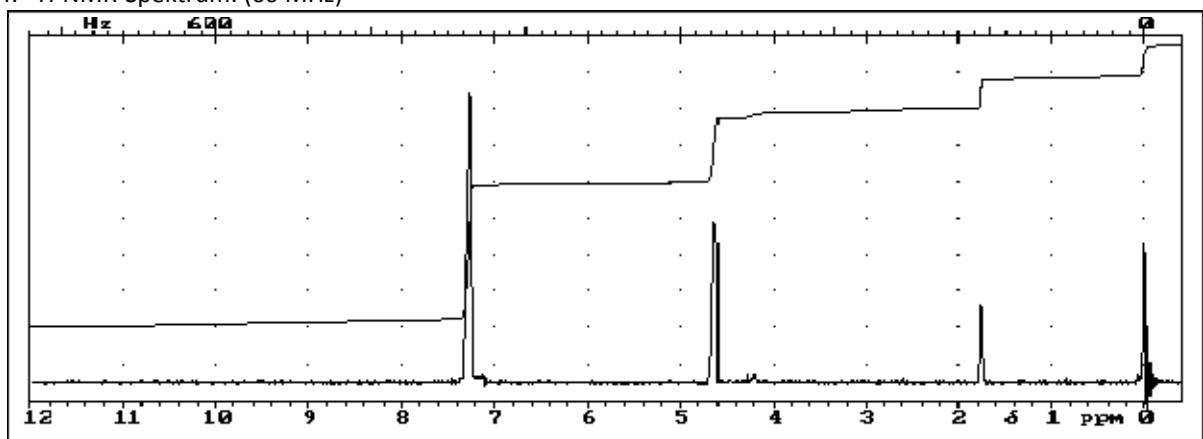
2. MS-Spektrum



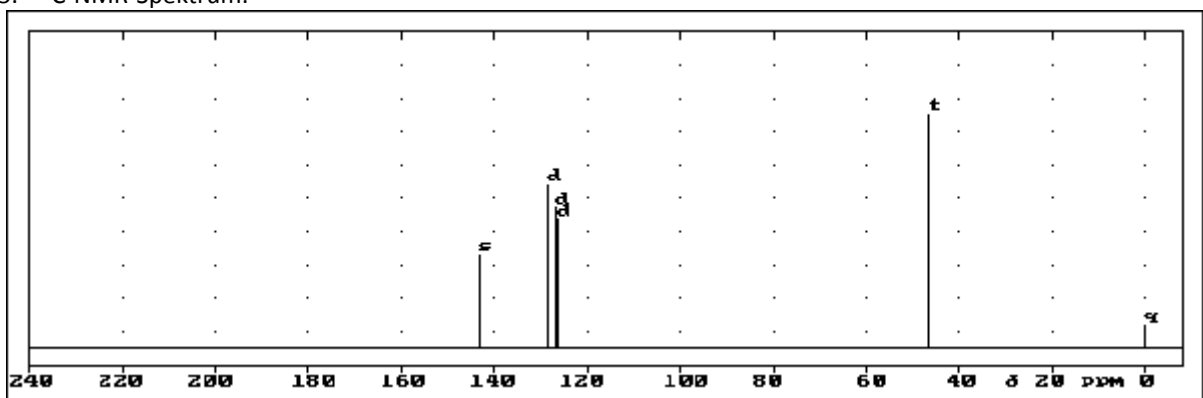
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



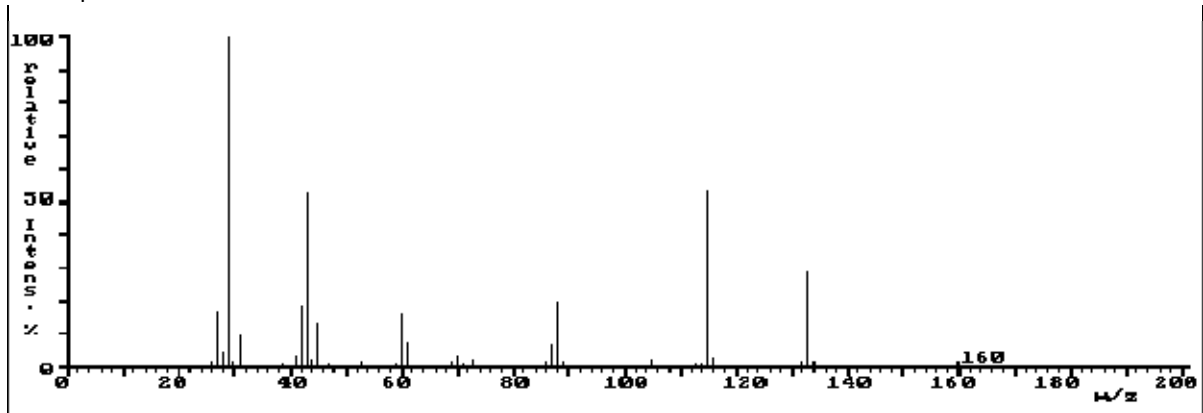
5. <sup>13</sup>C-NMR-Spektrum:



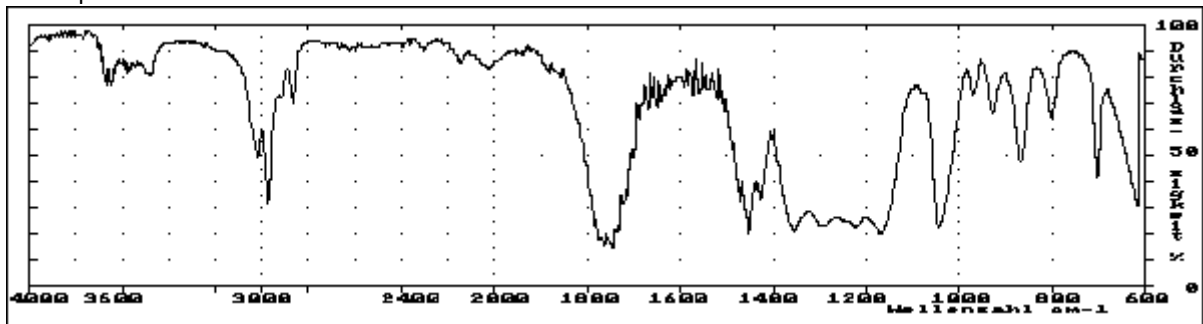
1. Quantitative Analyse:

C: 52.49 %	H: 07.55 %	O:				enthält: C, H, O
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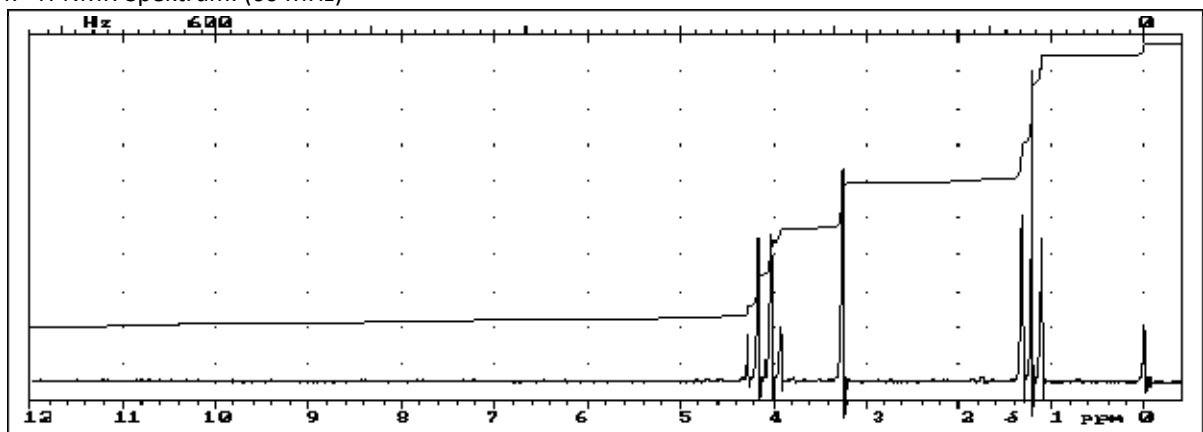
2. MS-Spektrum



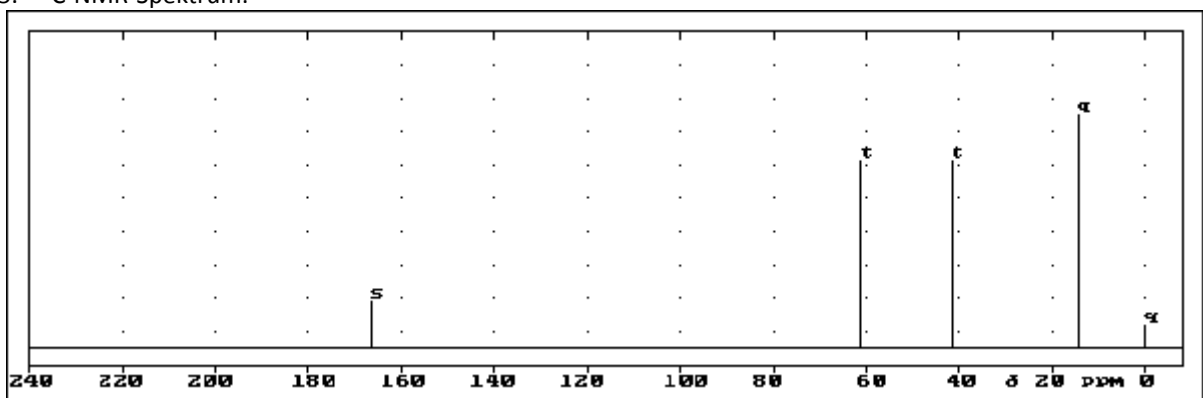
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



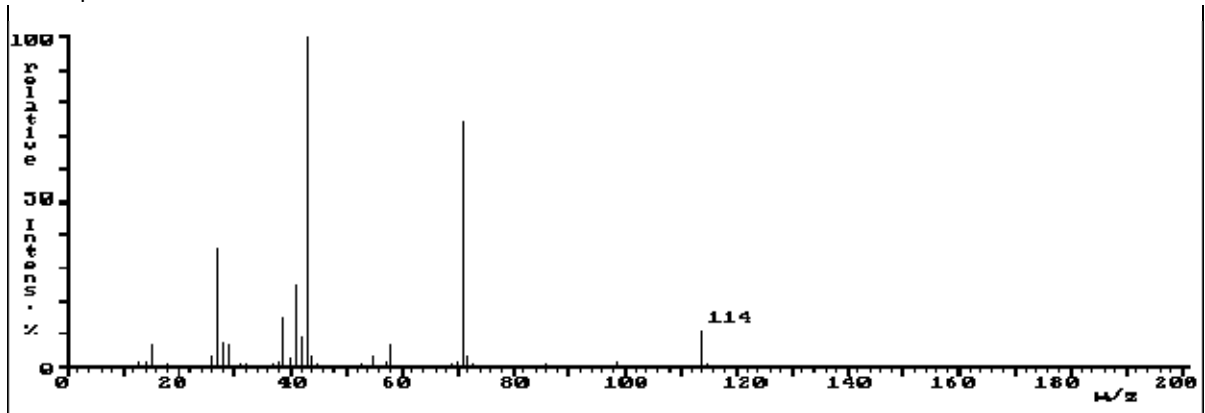
5. <sup>13</sup>C-NMR-Spektrum:



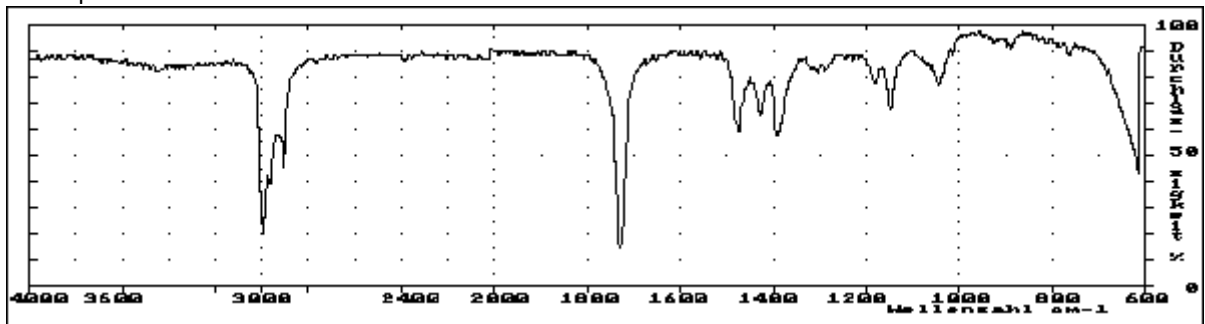
1. Quantitative Analyse:

C: 73.63 %	H: 12.36 %	O:				enthält: C, H, O
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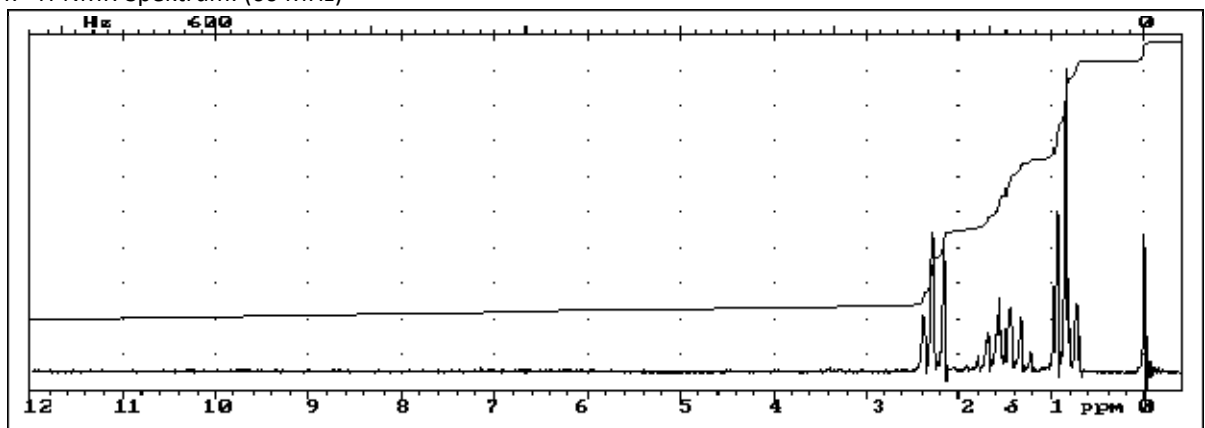
2. MS-Spektrum



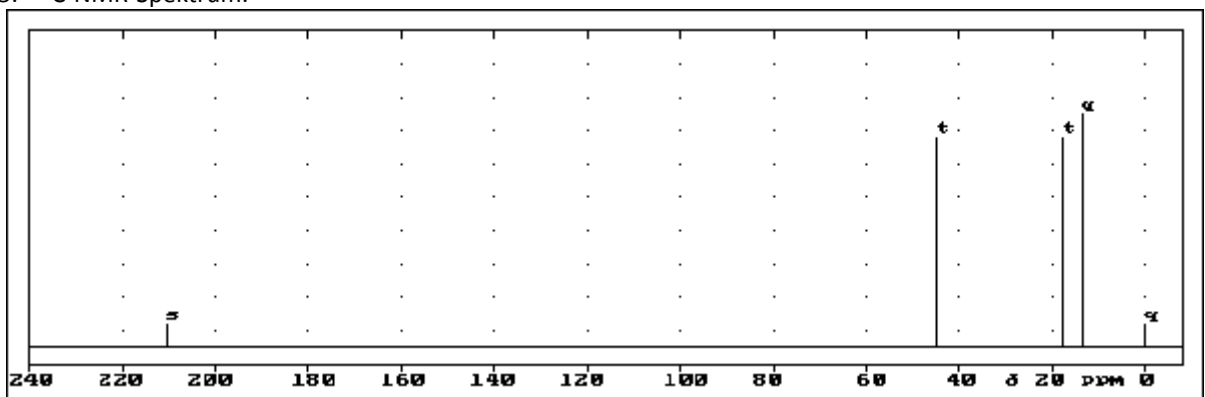
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



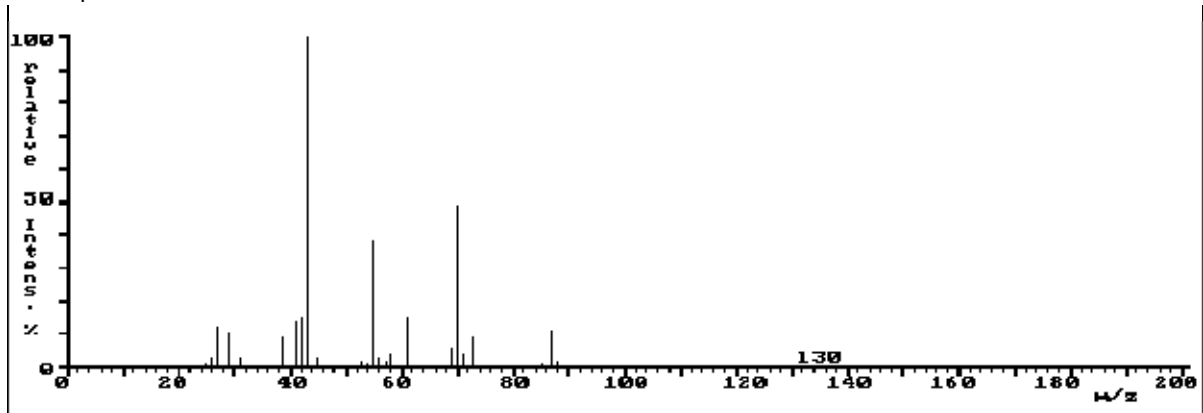
5. <sup>13</sup>C-NMR-Spektrum:



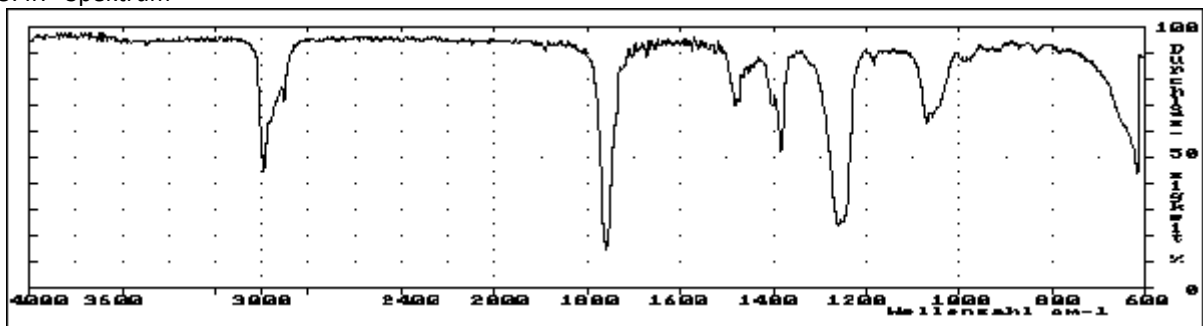
1. Quantitative Analyse:

C: 64.58 %	H: 10.84 %	O:				enthält: C, H, O
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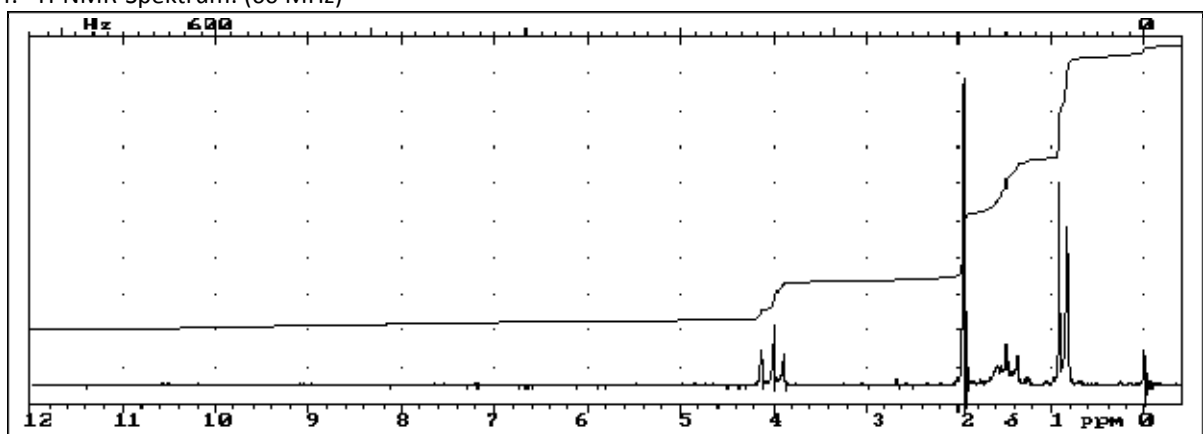
2. MS-Spektrum



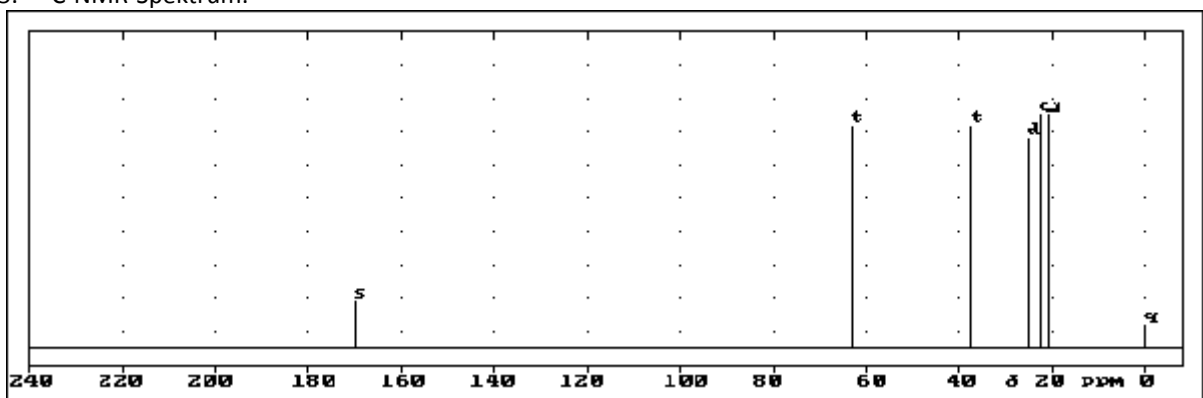
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



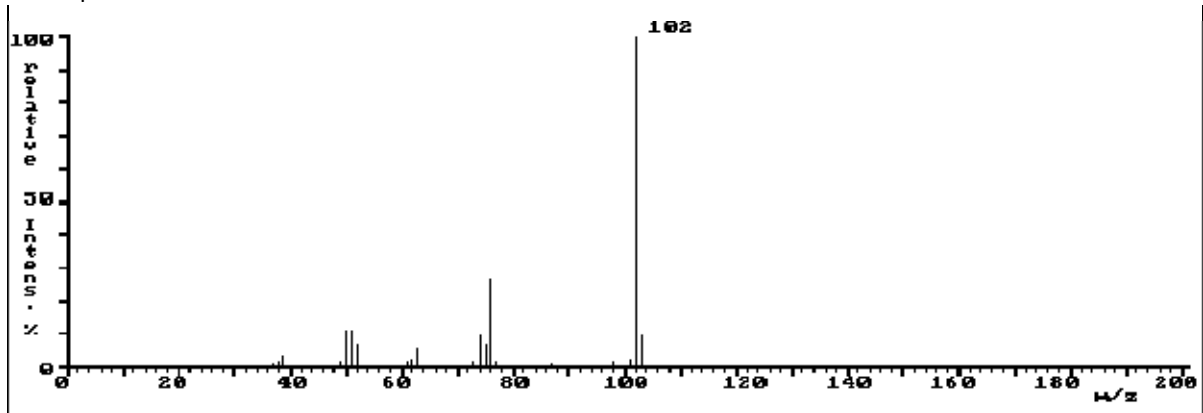
5. <sup>13</sup>C-NMR-Spektrum:



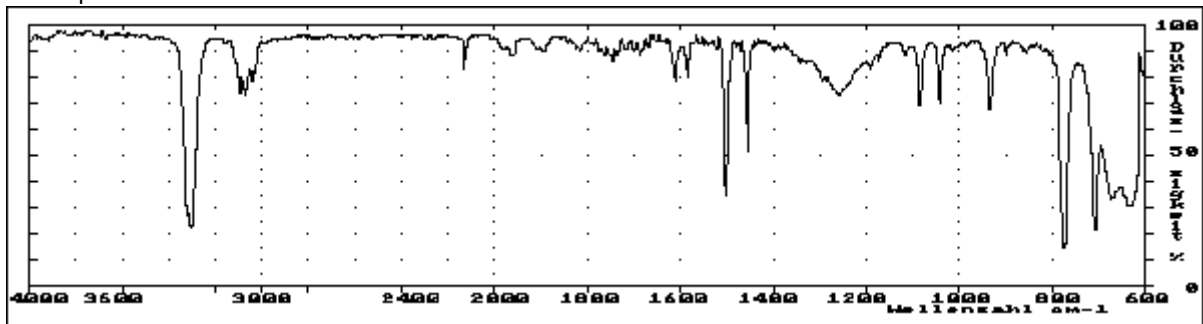
1. Quantitative Analyse:

C: 94.08 %	H: 05.92 %	O:				enthält: C, H
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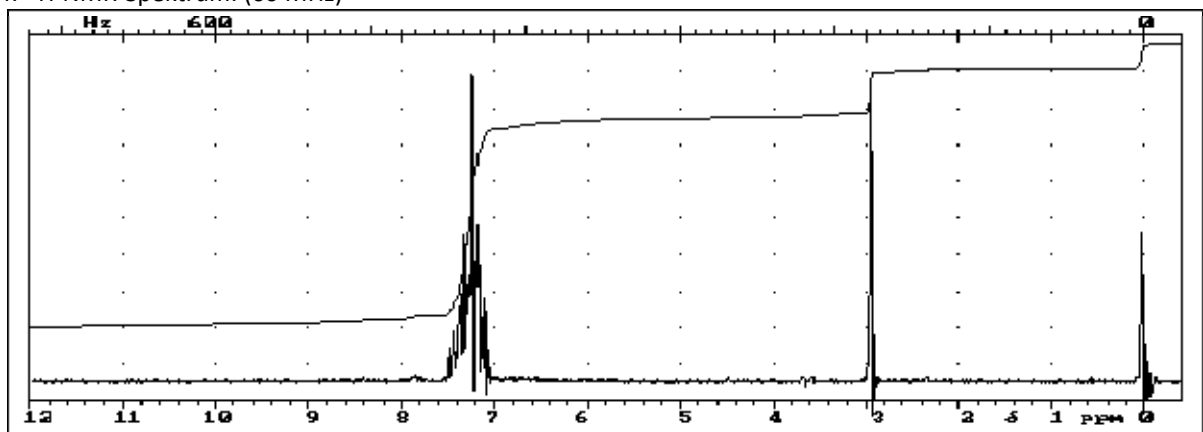
2. MS-Spektrum



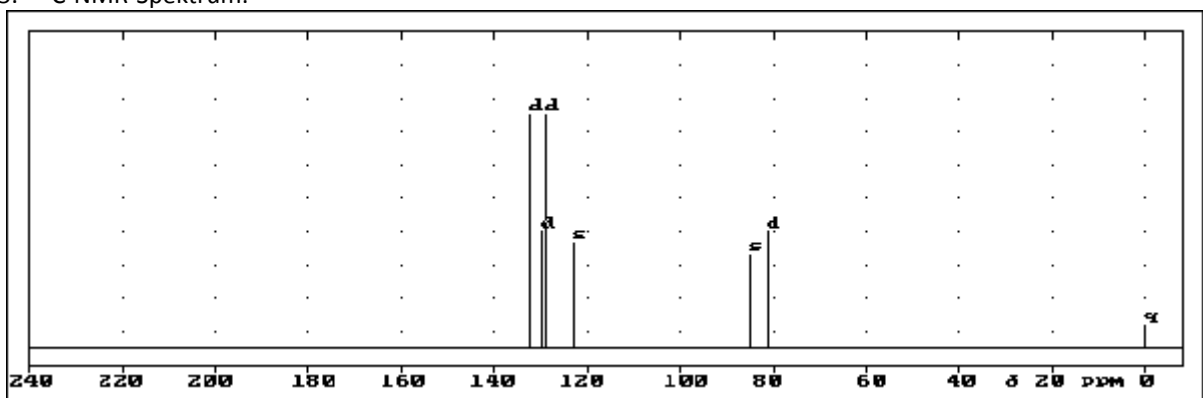
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



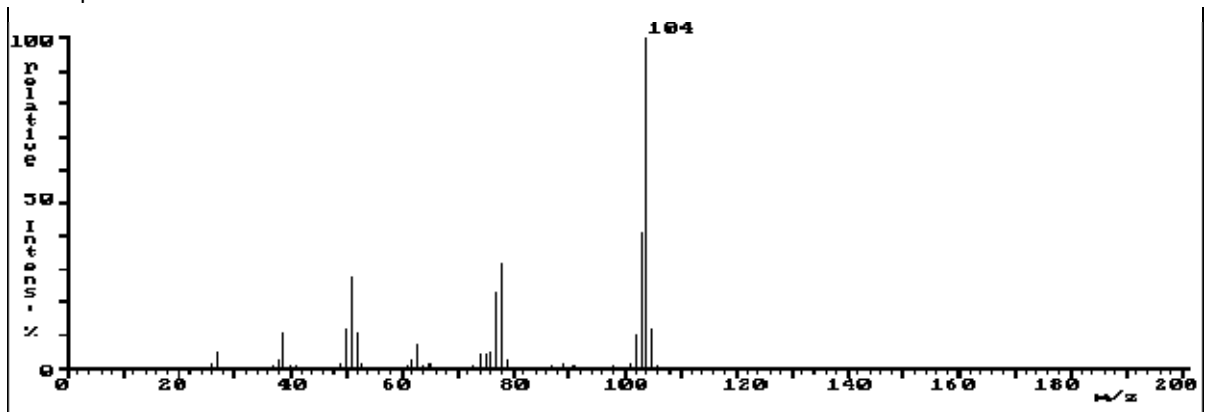
5. <sup>13</sup>C-NMR-Spektrum:



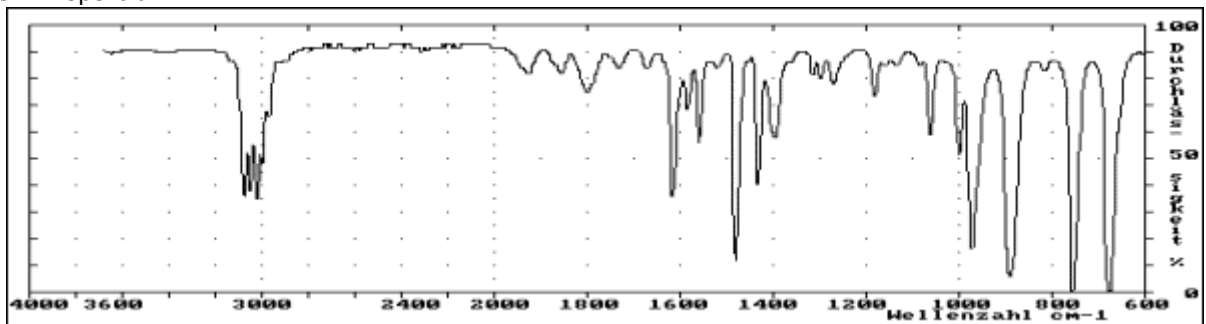
1. Quantitative Analyse:

C: 92.26 %	H: 07.74 %	O:				enthält: C, H
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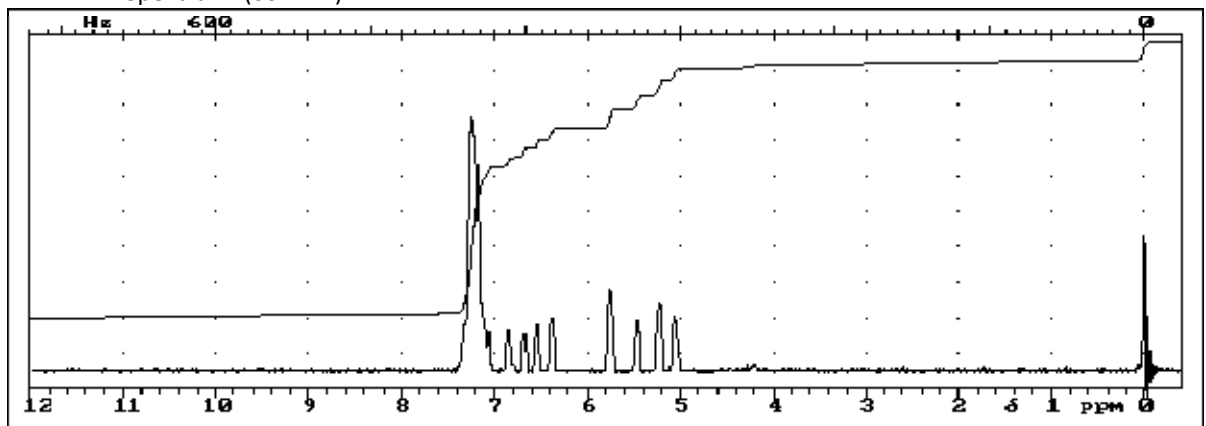
2. MS-Spektrum



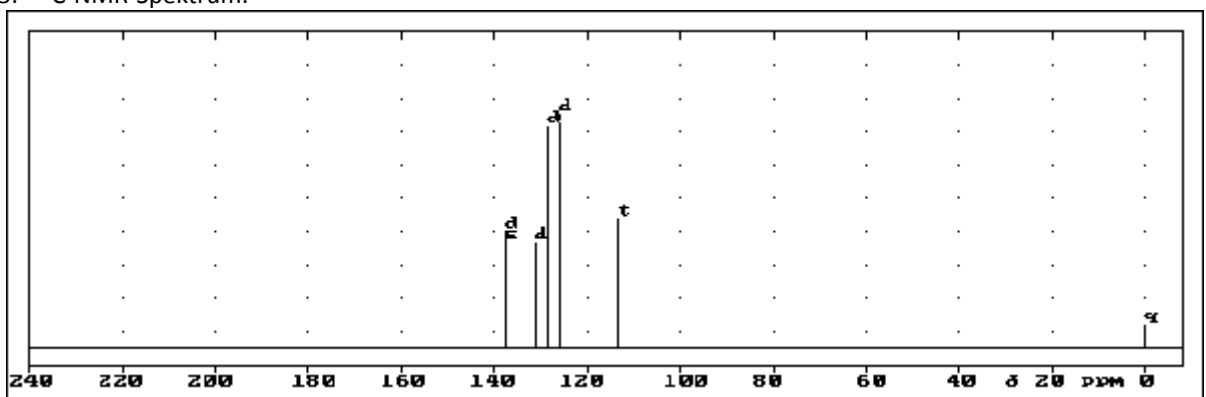
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

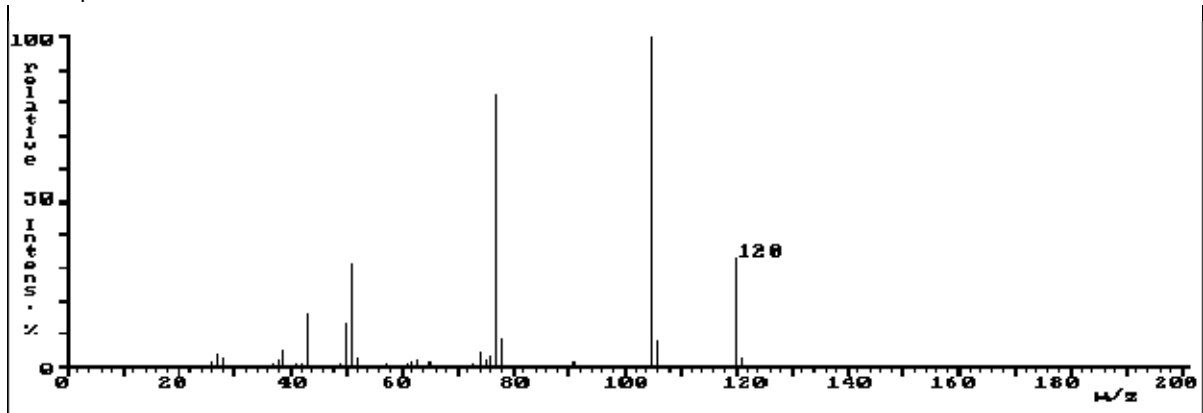




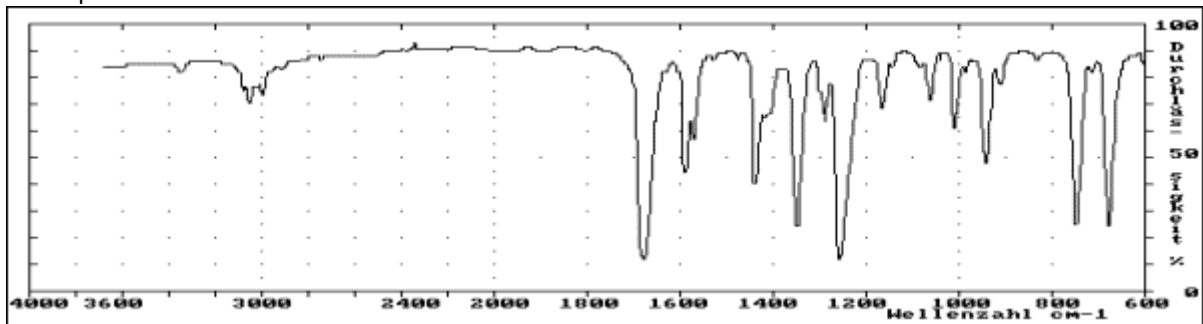
1. Quantitative Analyse:

C: 70.97 %	H: 06.71 %	O:				enthält: C, H, O
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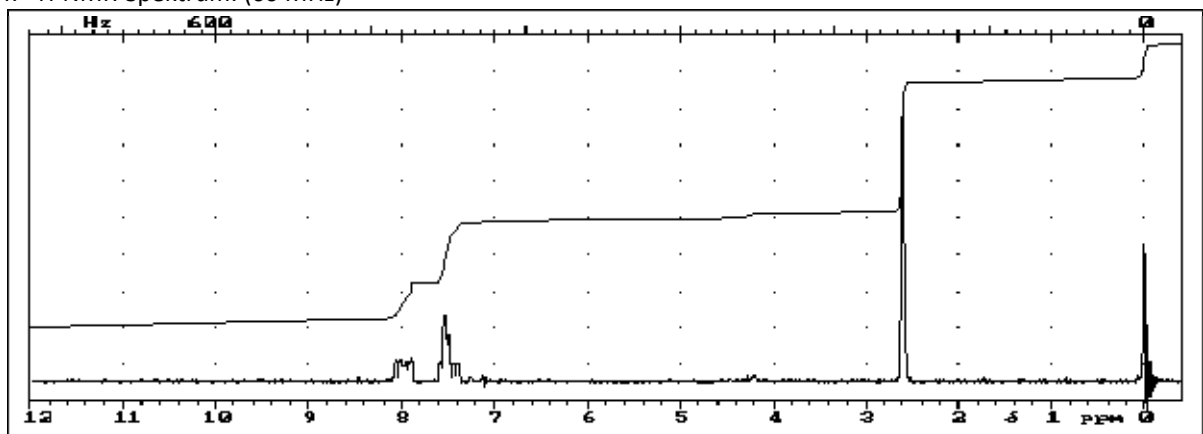
2. MS-Spektrum



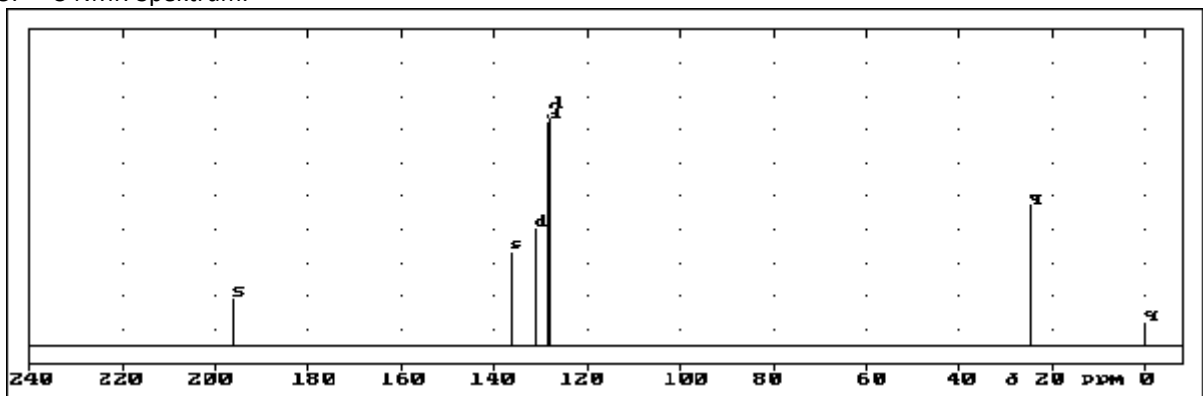
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



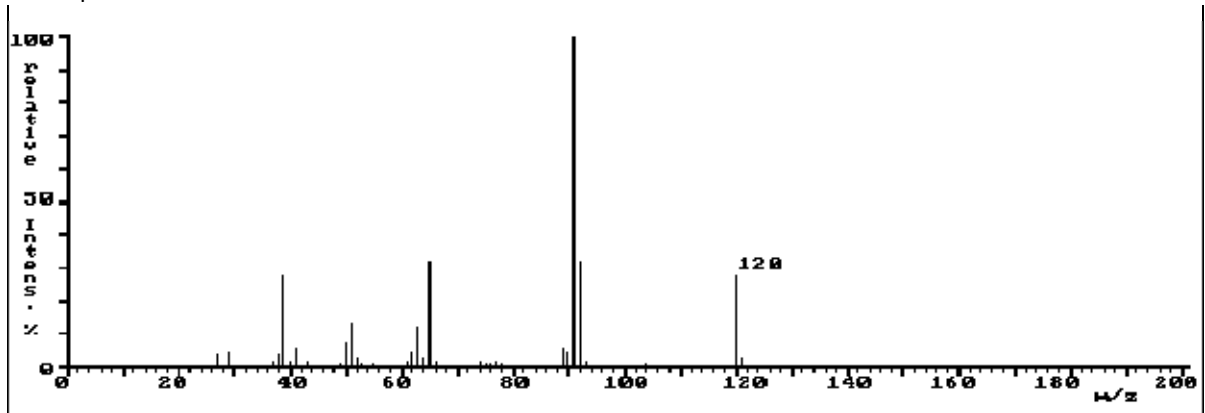
5. <sup>13</sup>C-NMR-Spektrum:



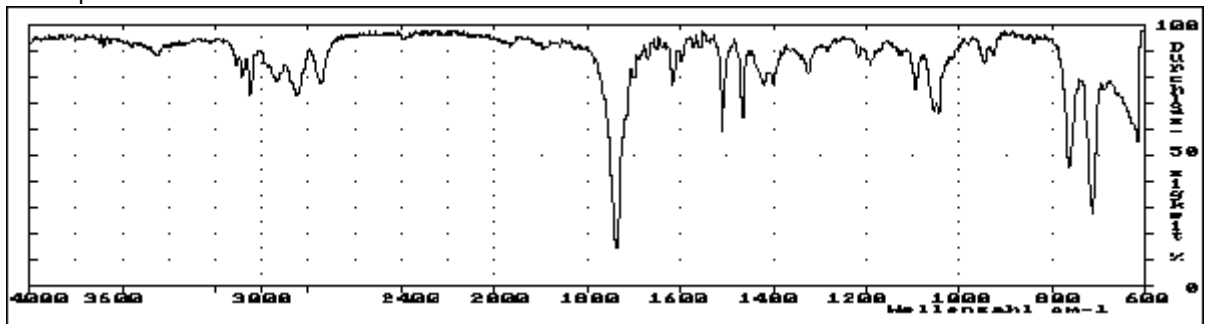
1. Quantitative Analyse:

C: 70.97 %	H: 06.71 %	O:				enthält: C, H, O
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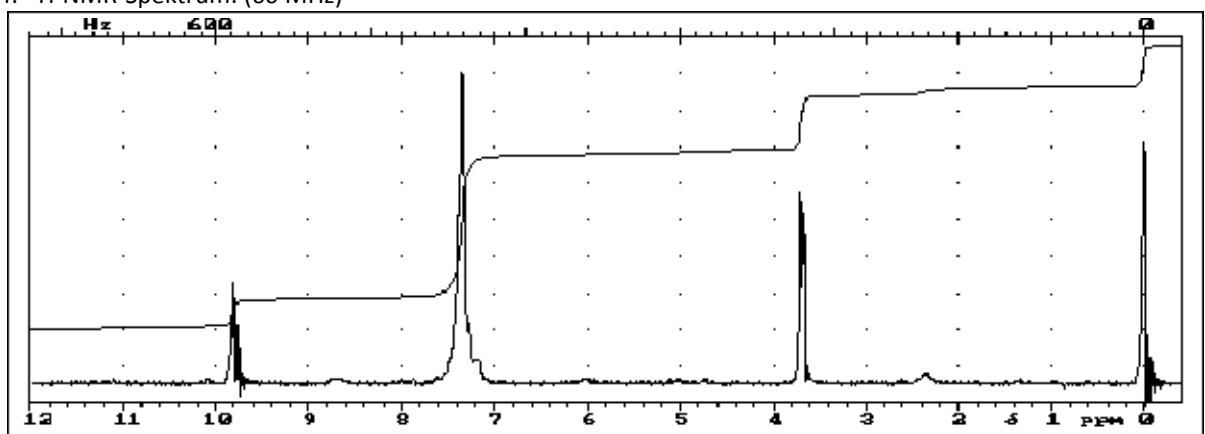
2. MS-Spektrum



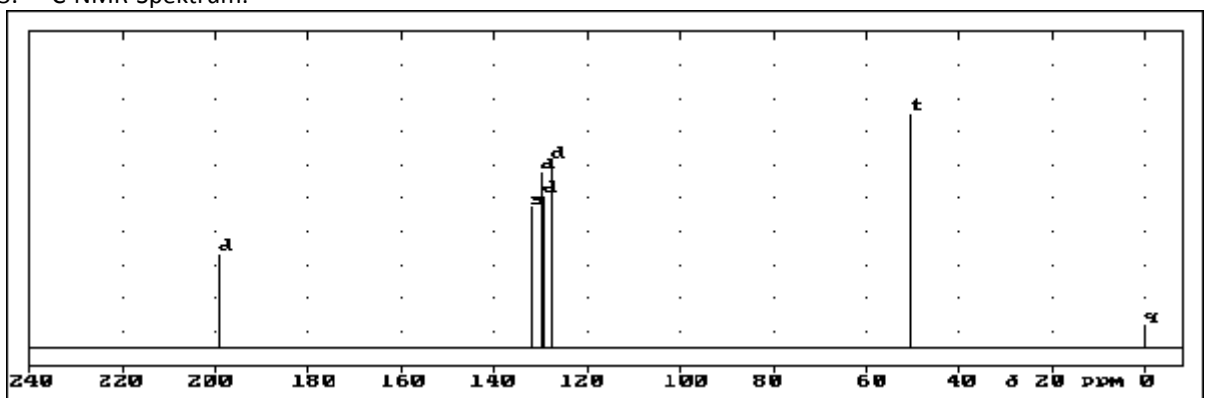
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



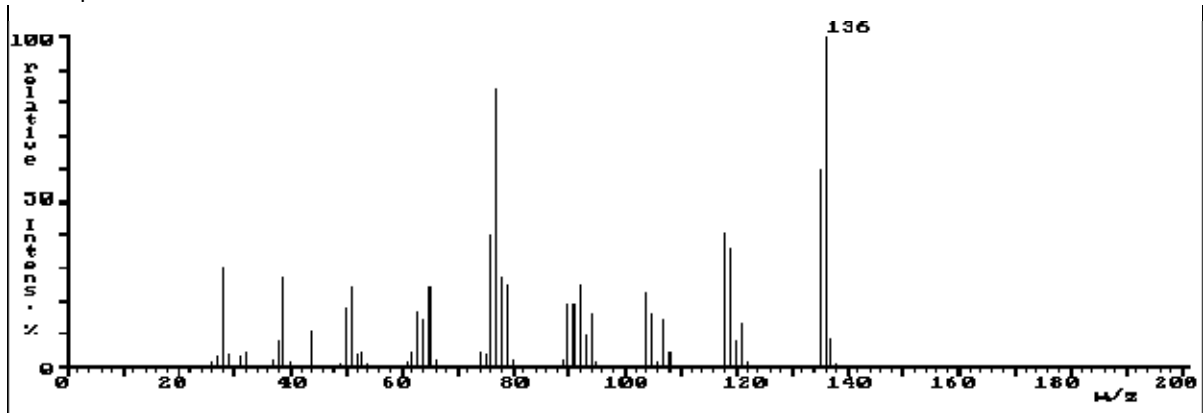
5. <sup>13</sup>C-NMR-Spektrum:



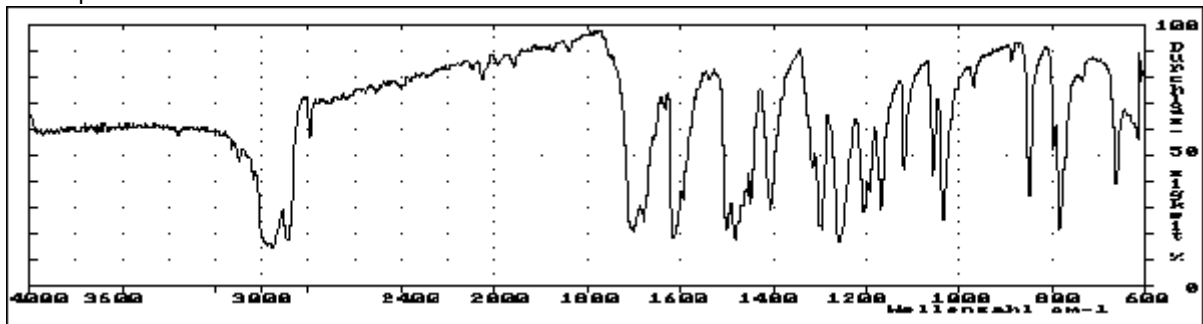
1. Quantitative Analyse:

C: 70.58 %	H: 05.92 %	O:				enthält: C, H, O
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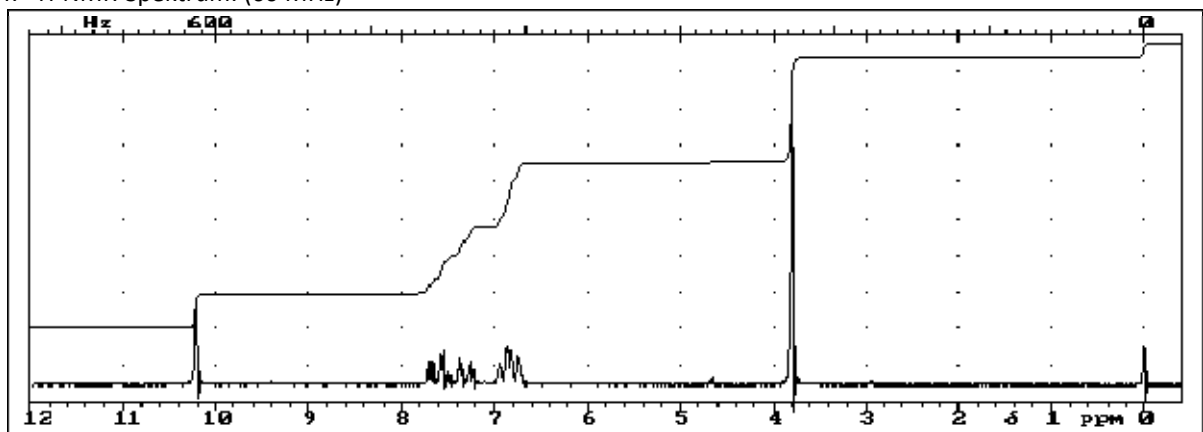
2. MS-Spektrum



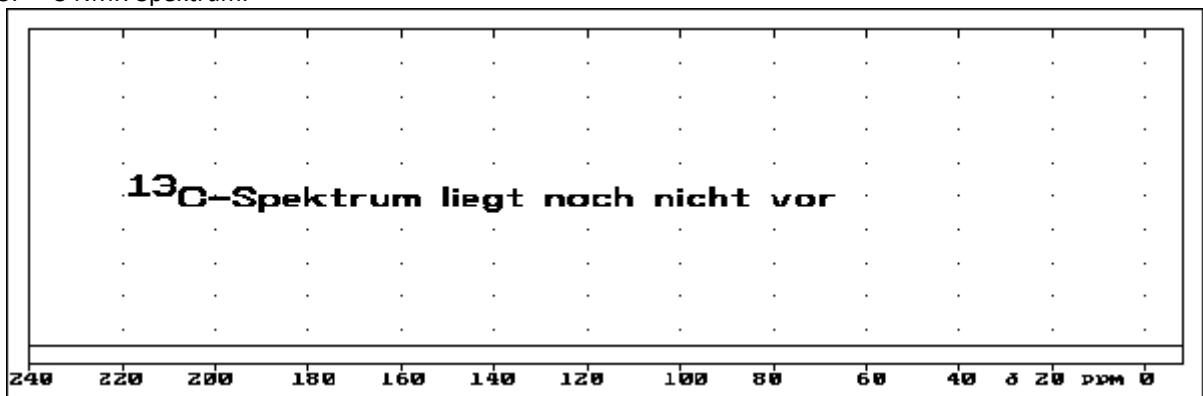
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



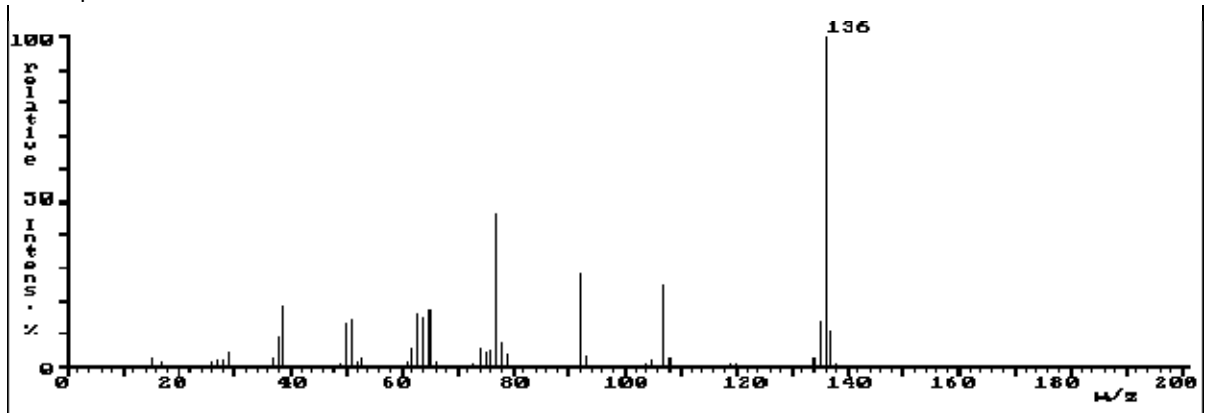
5. <sup>13</sup>C-NMR-Spektrum:



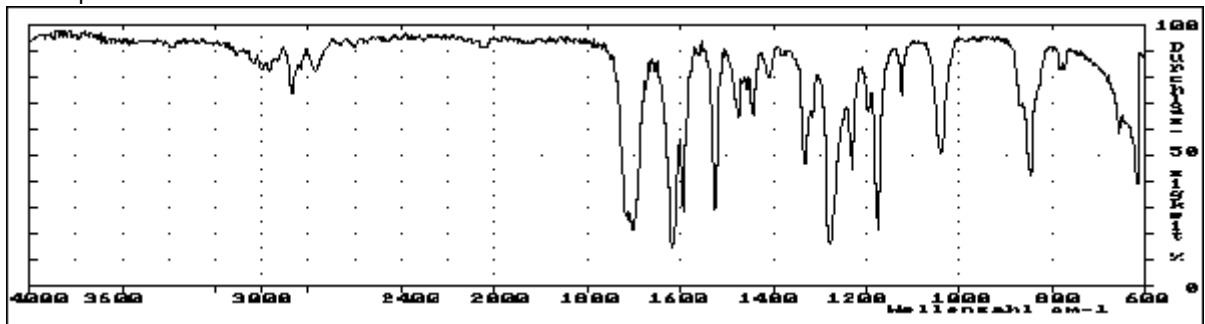
1. Quantitative Analyse:

C: 70.58 %	H: 05.92 %	O:				enthält: C, H, O
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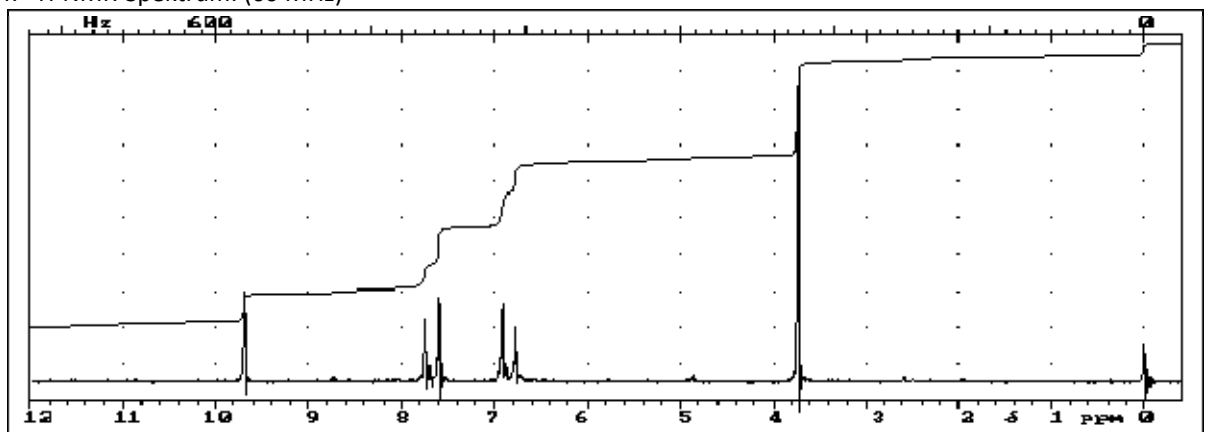
2. MS-Spektrum



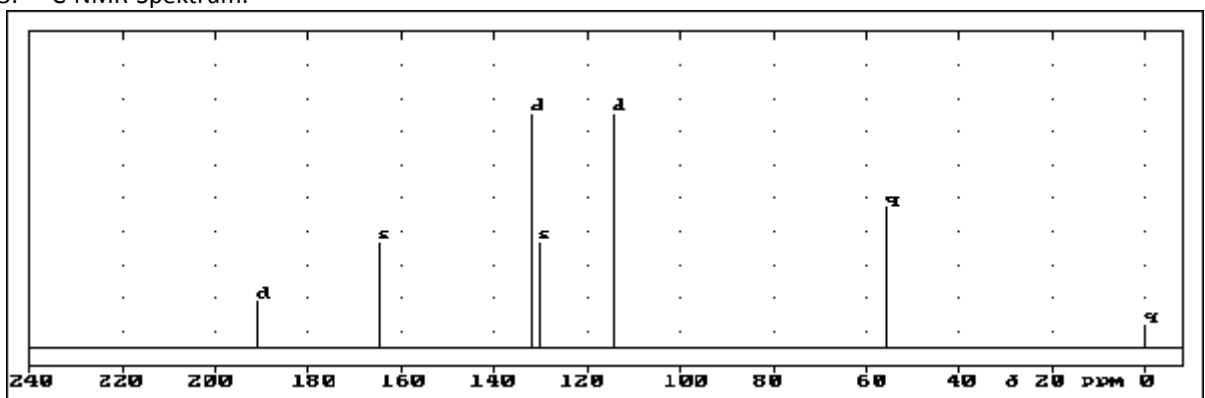
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



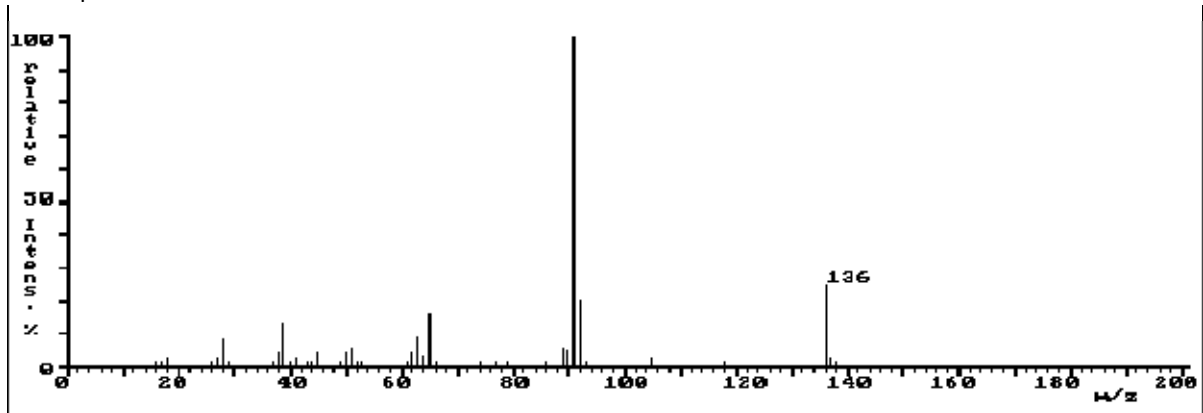
5. <sup>13</sup>C-NMR-Spektrum:



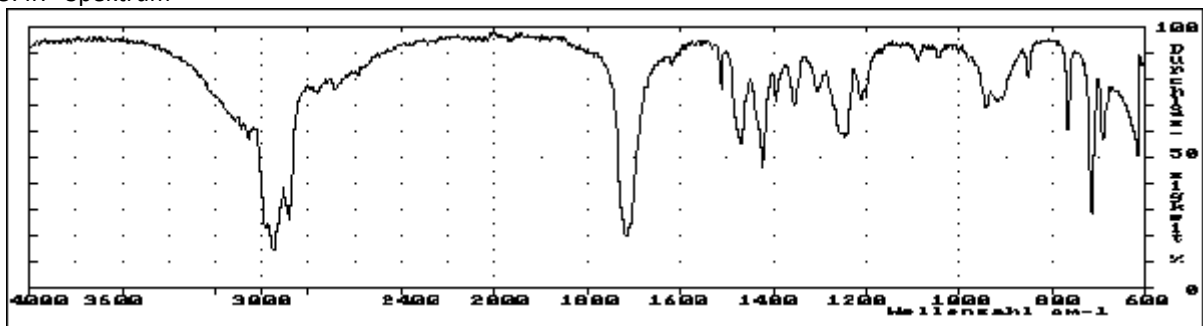
1. Quantitative Analyse:

C: 70.58 %	H: 05.92 %	O:				enthält: C, H, O
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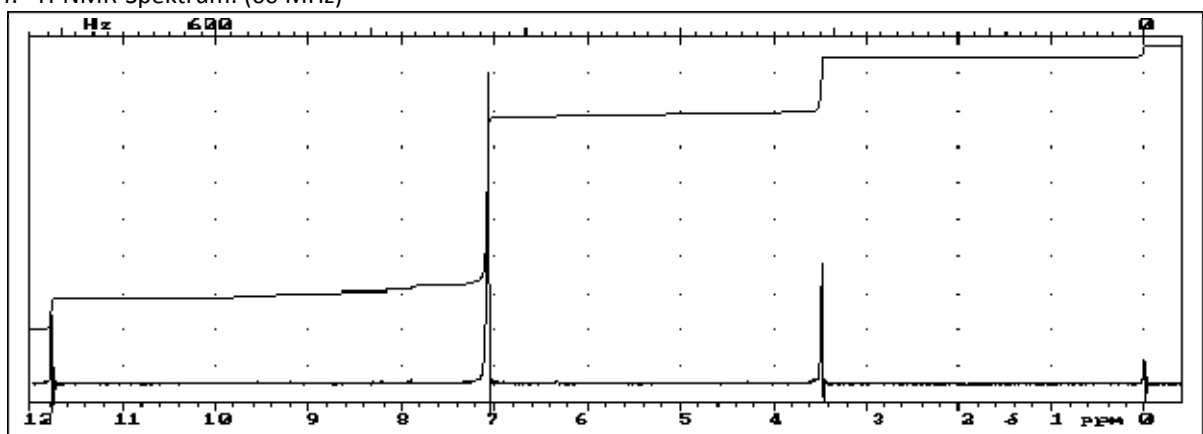
2. MS-Spektrum



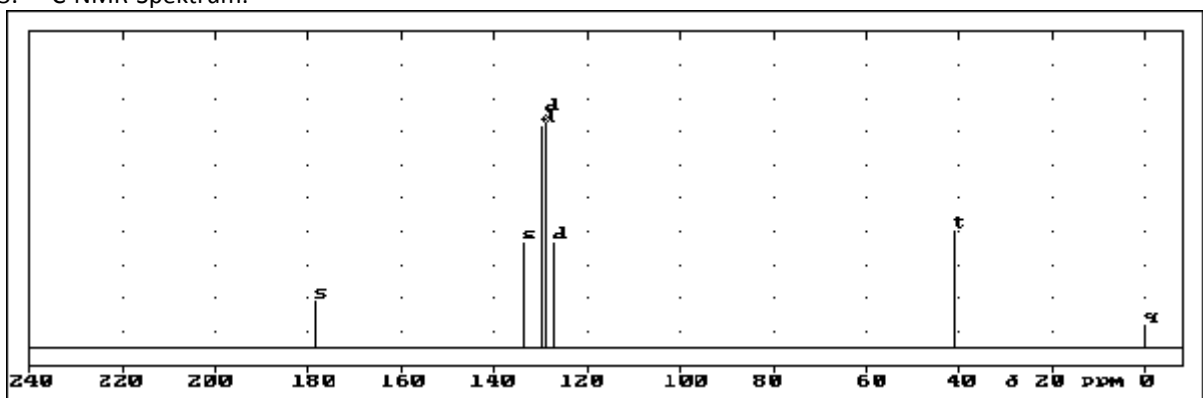
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



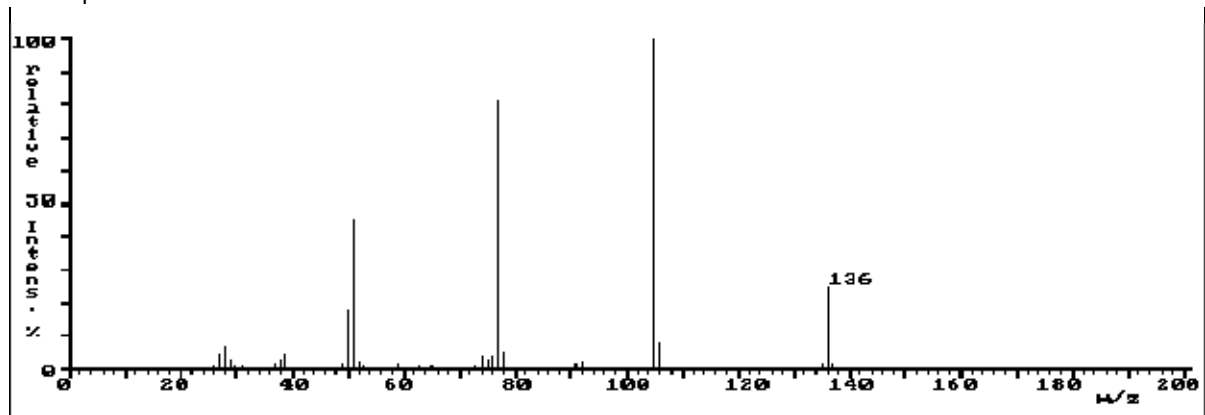
5. <sup>13</sup>C-NMR-Spektrum:



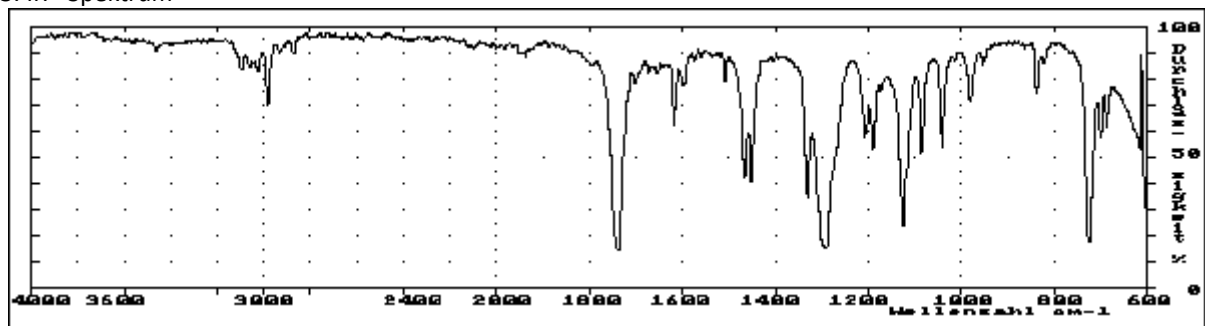
1. Quantitative Analyse:

C: 70.58 %	H: 05.92 %	O:				enthält: C, H, O
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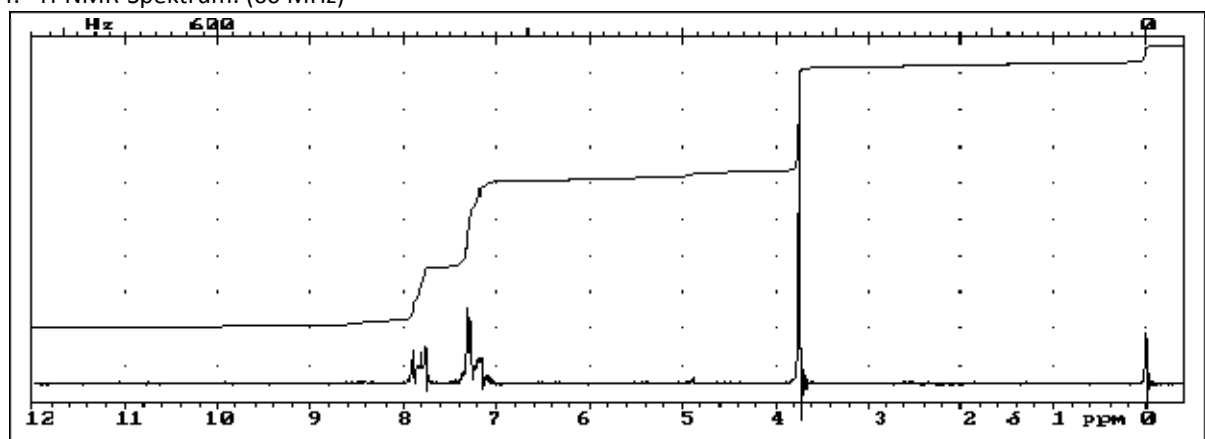
2. MS-Spektrum



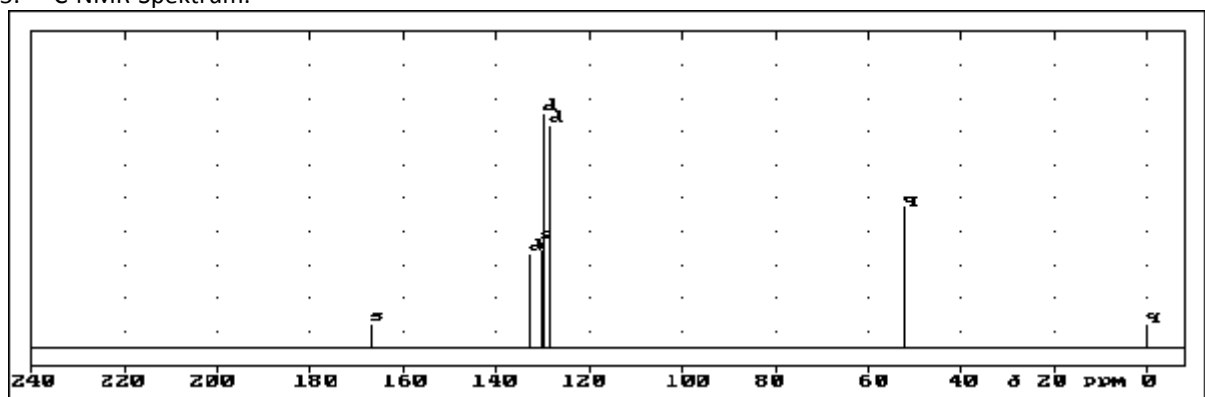
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



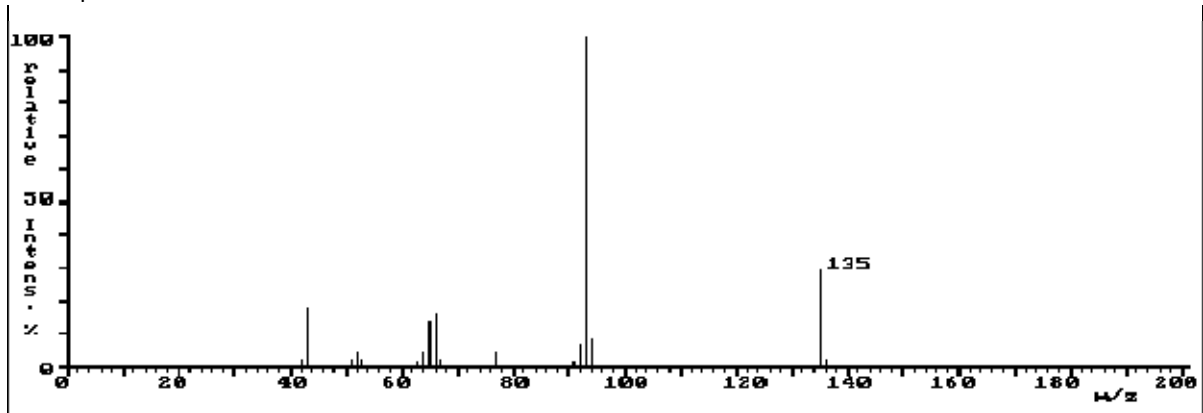
5. <sup>13</sup>C-NMR-Spektrum:



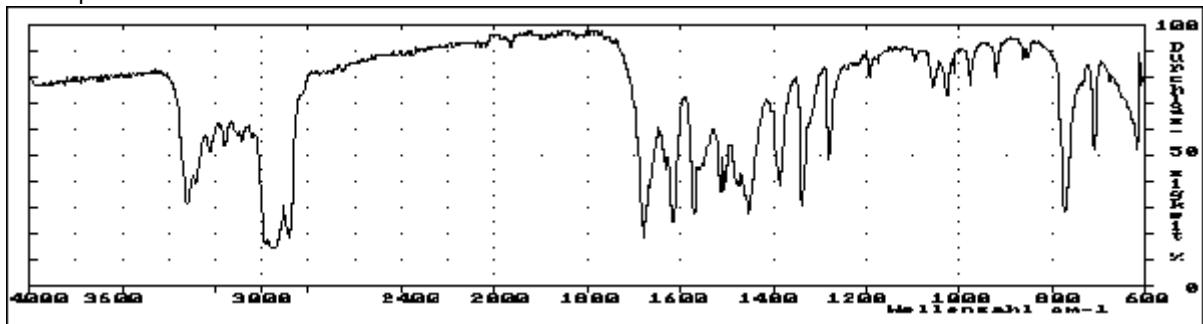
1. Quantitative Analyse:

C: 71.09 %	H: 06.71 %	O:				enthält: C, H, N, O
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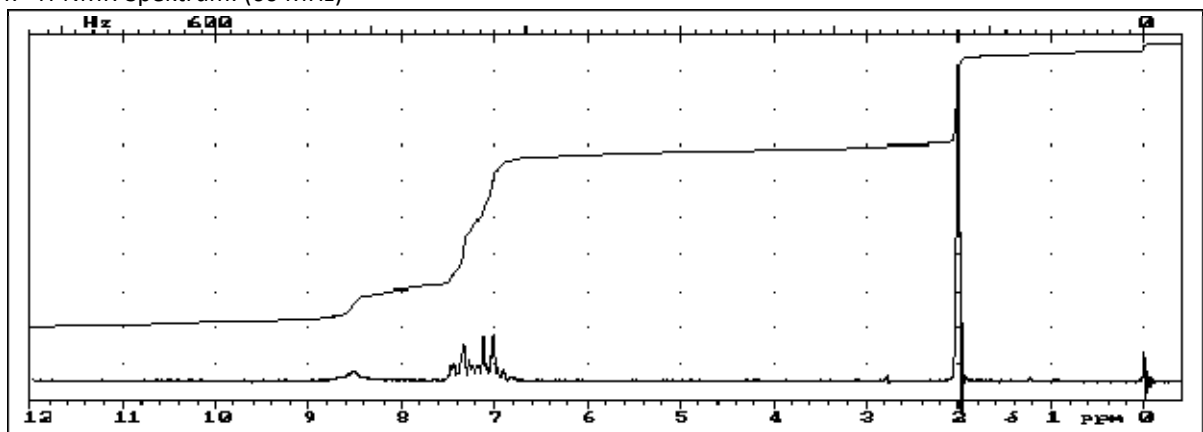
2. MS-Spektrum



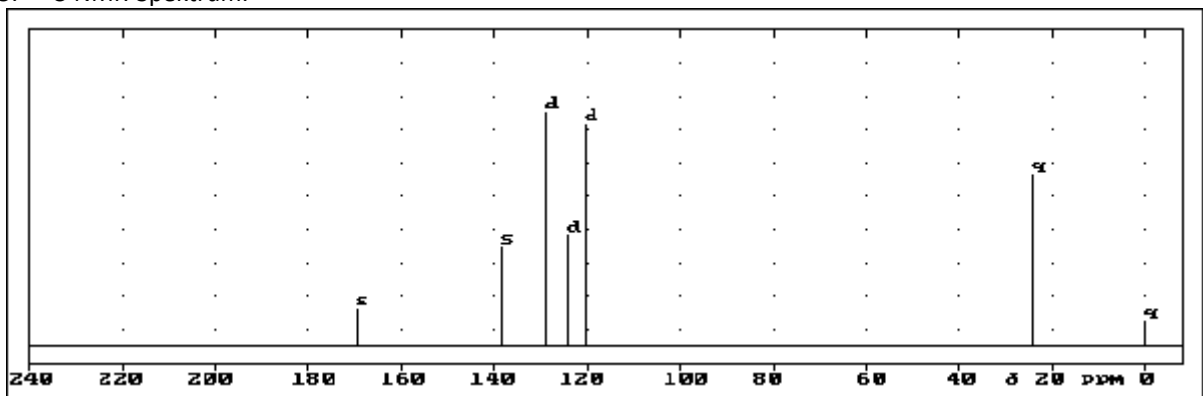
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



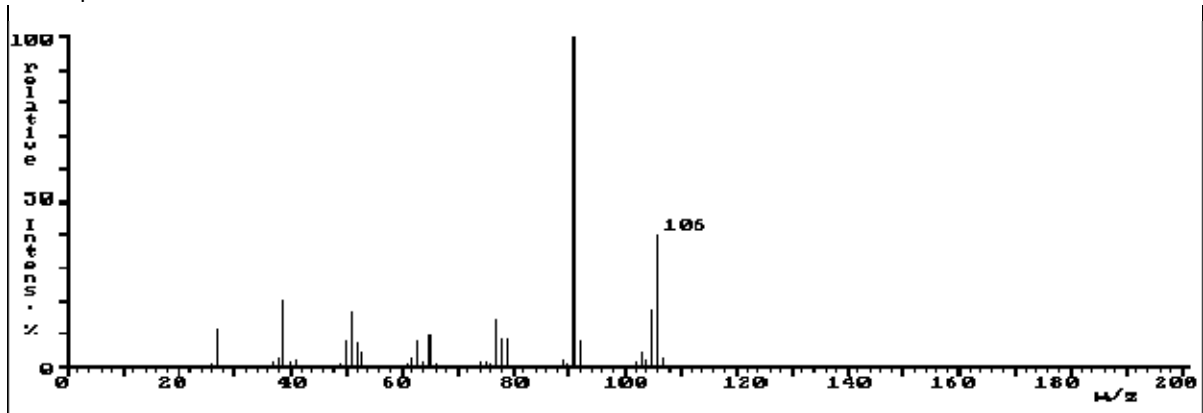
5. <sup>13</sup>C-NMR-Spektrum:



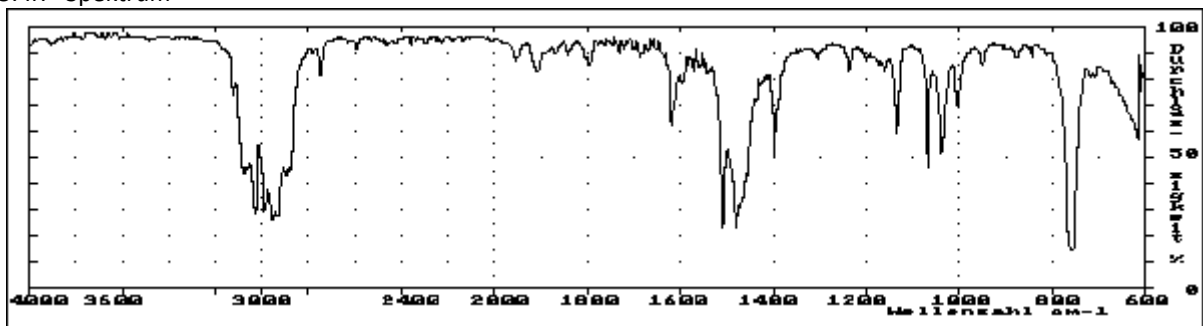
1. Quantitative Analyse:

C: 90.51 %	H: 09.49 %	O:				enthält: C, H
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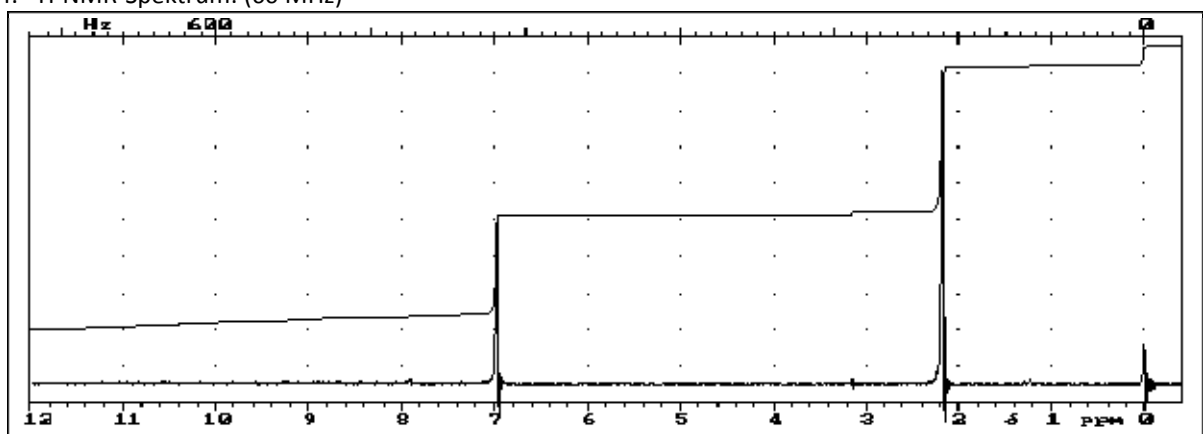
2. MS-Spektrum



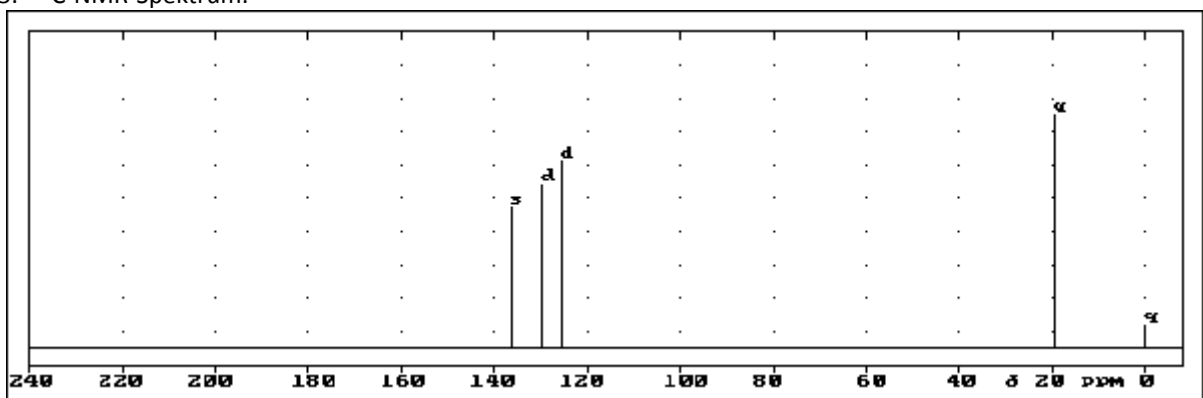
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

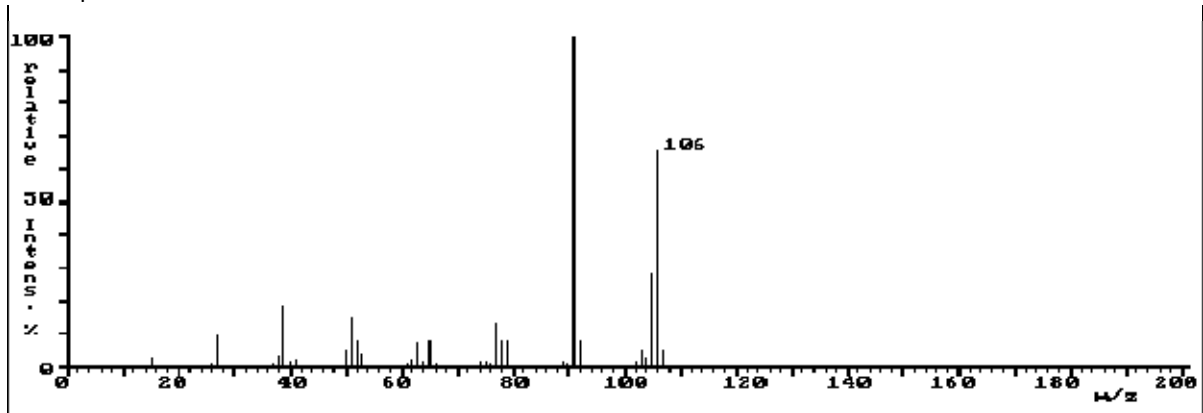




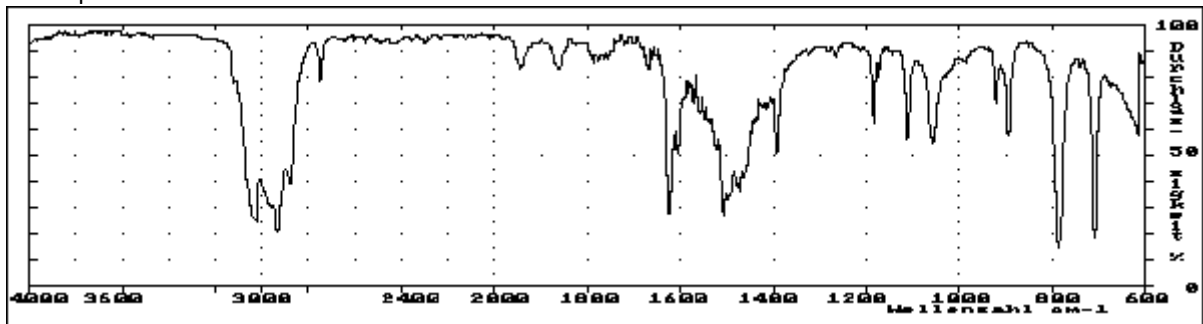
1. Quantitative Analyse:

C: 90.51 %	H: 09.49 %	O:				enthält: C, H
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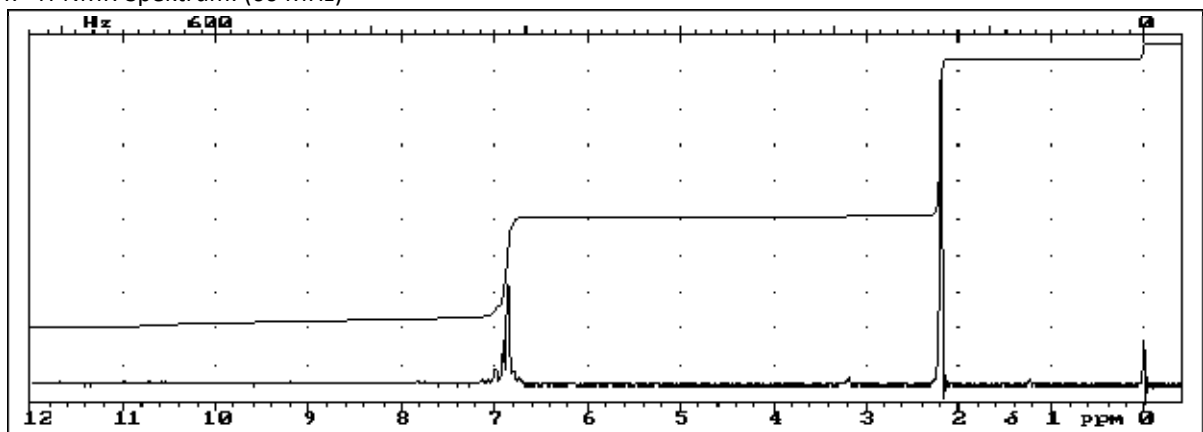
2. MS-Spektrum



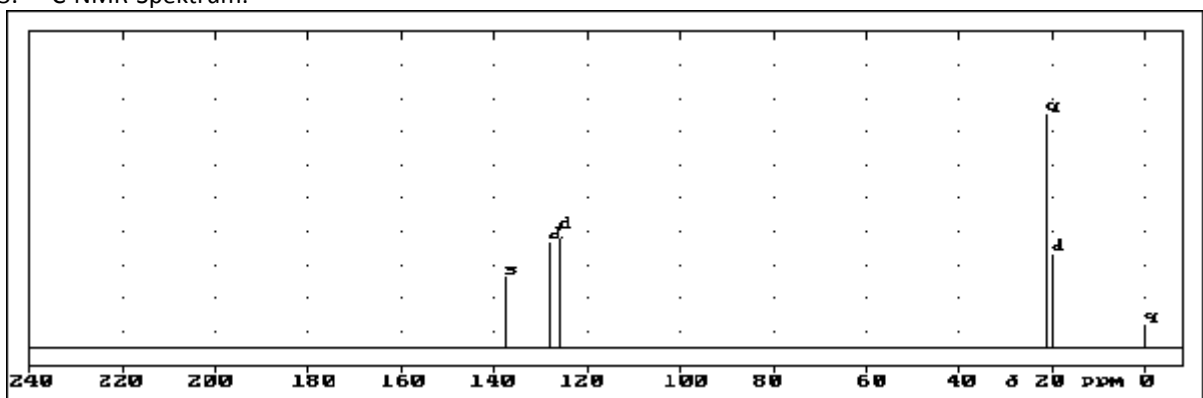
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



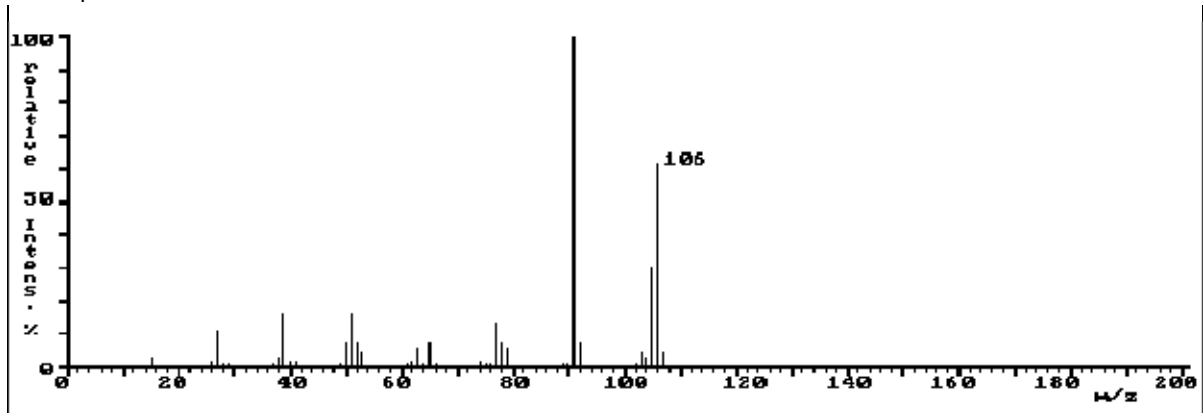
5. <sup>13</sup>C-NMR-Spektrum:



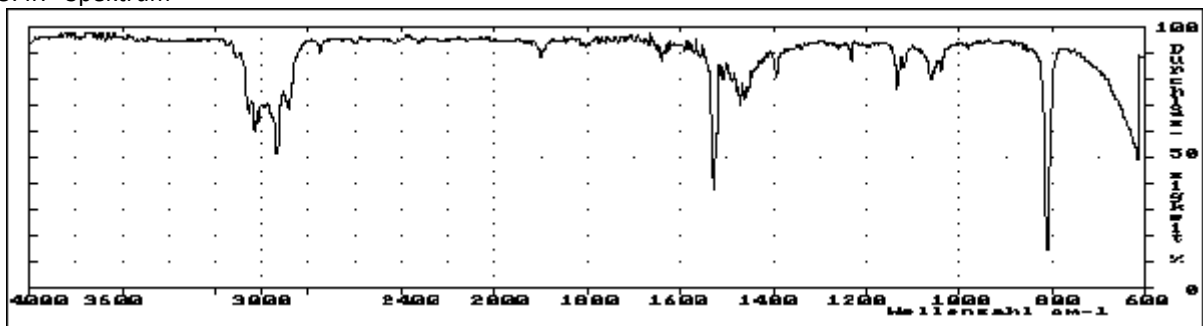
1. Quantitative Analyse:

C: 90.51 %	H: 09.49 %	O:				enthält: C, H
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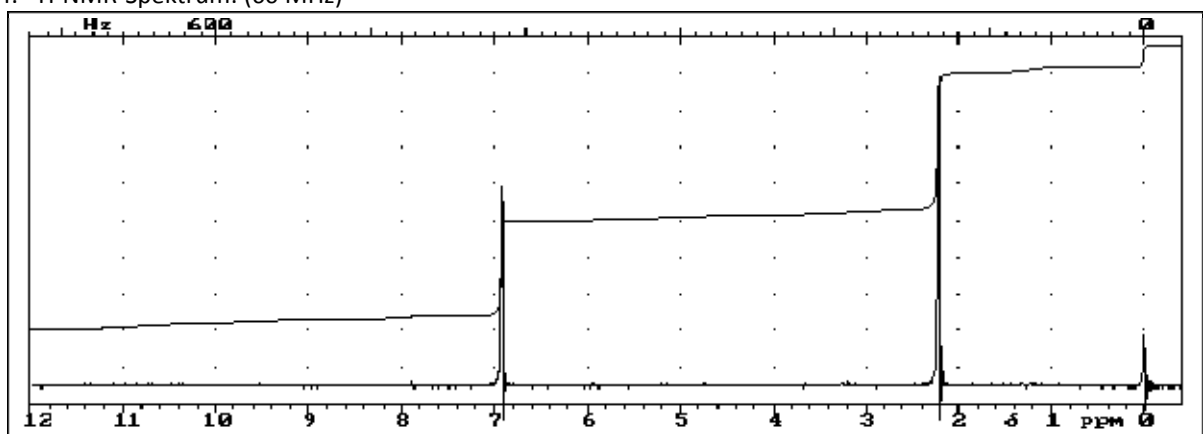
2. MS-Spektrum



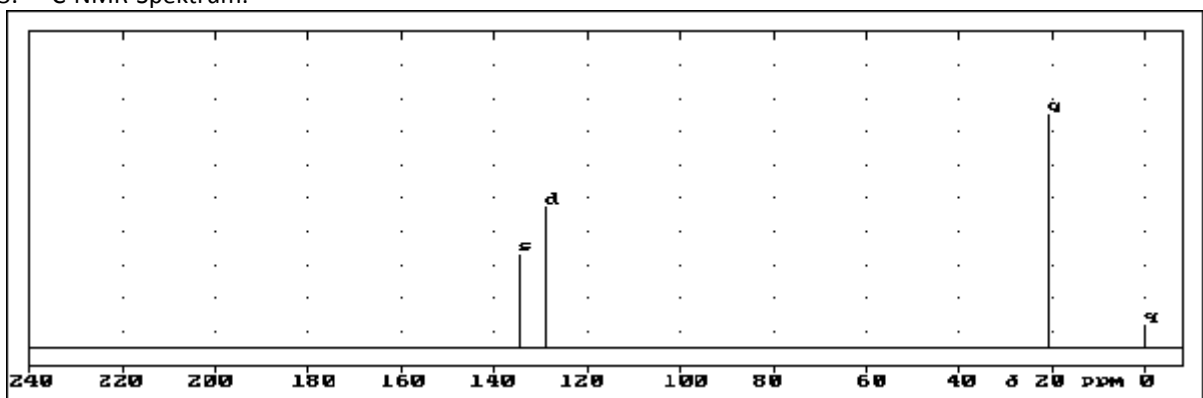
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



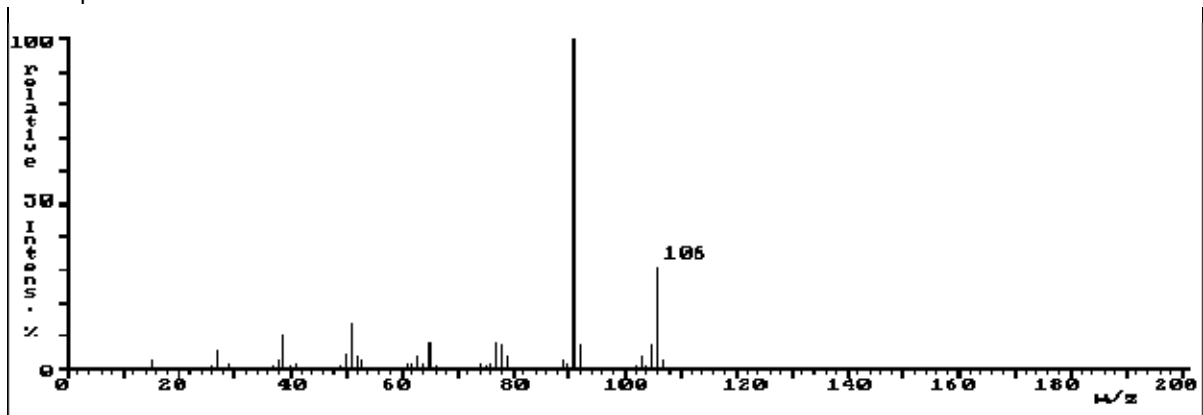
5. <sup>13</sup>C-NMR-Spektrum:



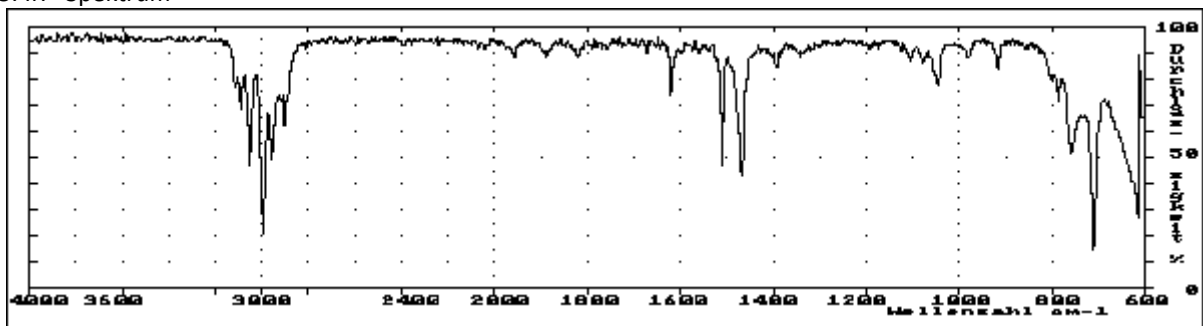
1. Quantitative Analyse:

C: 90.57 %	H: 09.43 %	O:				enthält: C, H
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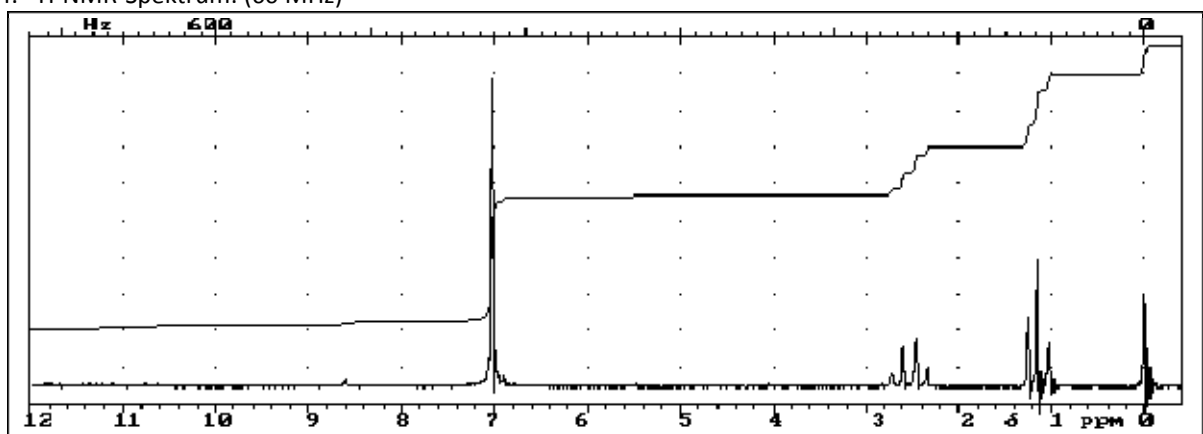
2. MS-Spektrum



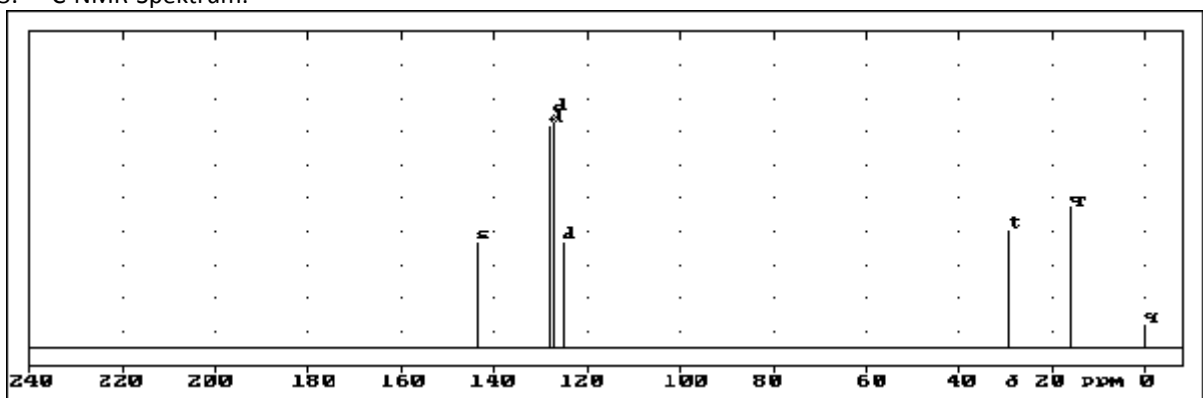
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



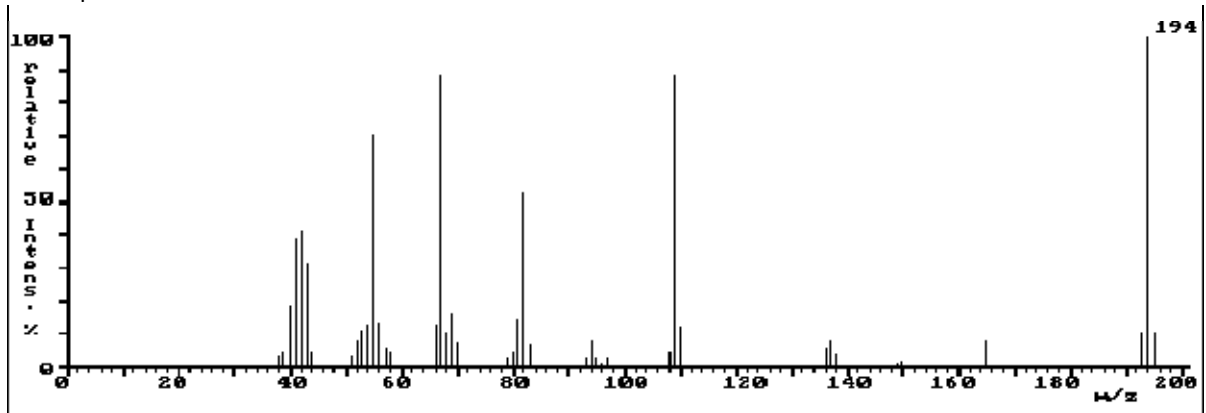
5. <sup>13</sup>C-NMR-Spektrum:



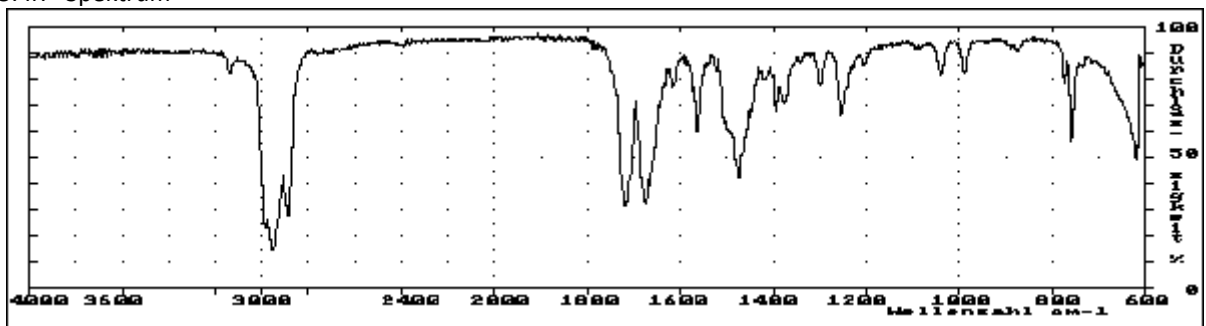
1. Quantitative Analyse:

C: 49.48 %	H: 05.19 %	O:				enthält: C, H, N, O
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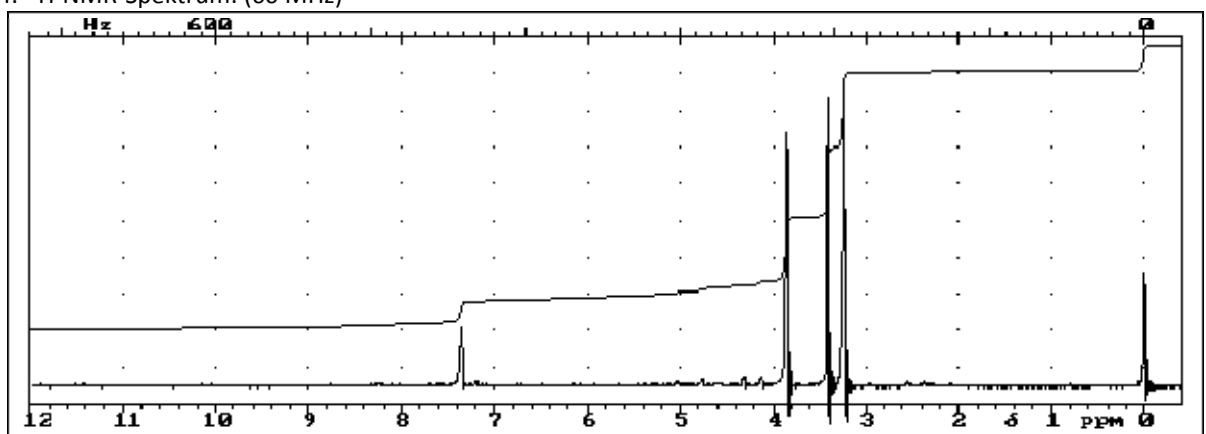
2. MS-Spektrum



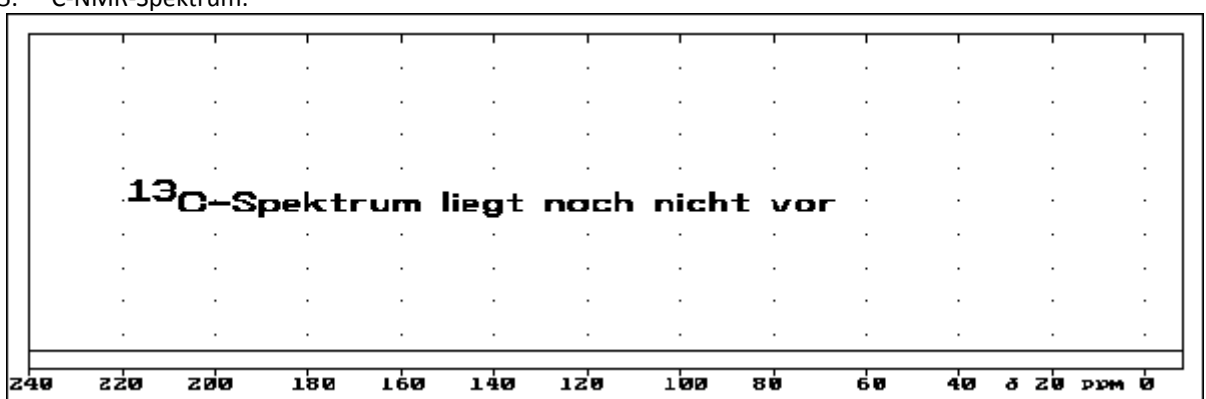
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



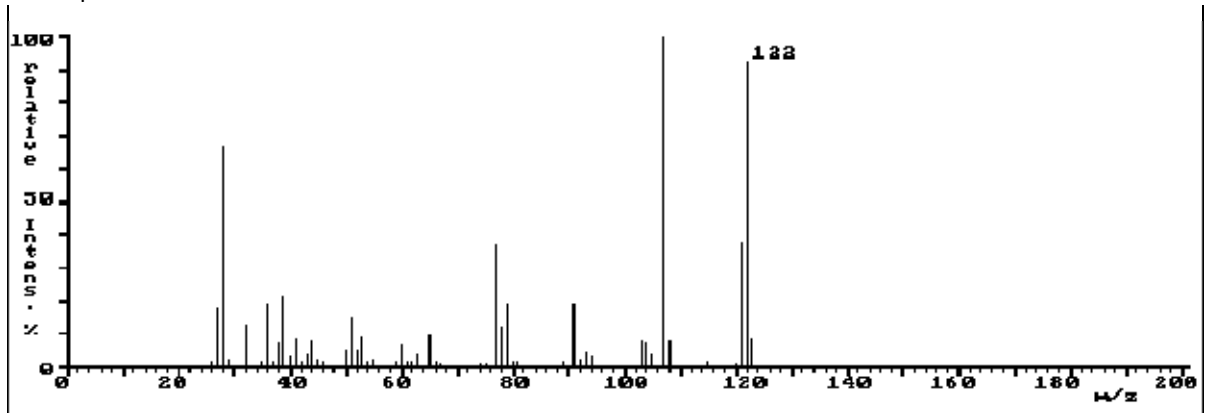
5. <sup>13</sup>C-NMR-Spektrum:



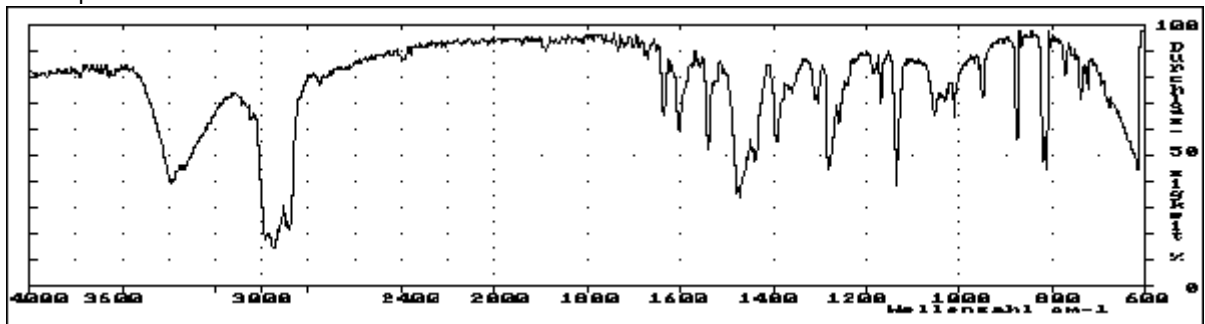
1. Quantitative Analyse:

C: 78.65 %	H: 08.25 %	O:				enthält: C, H, O
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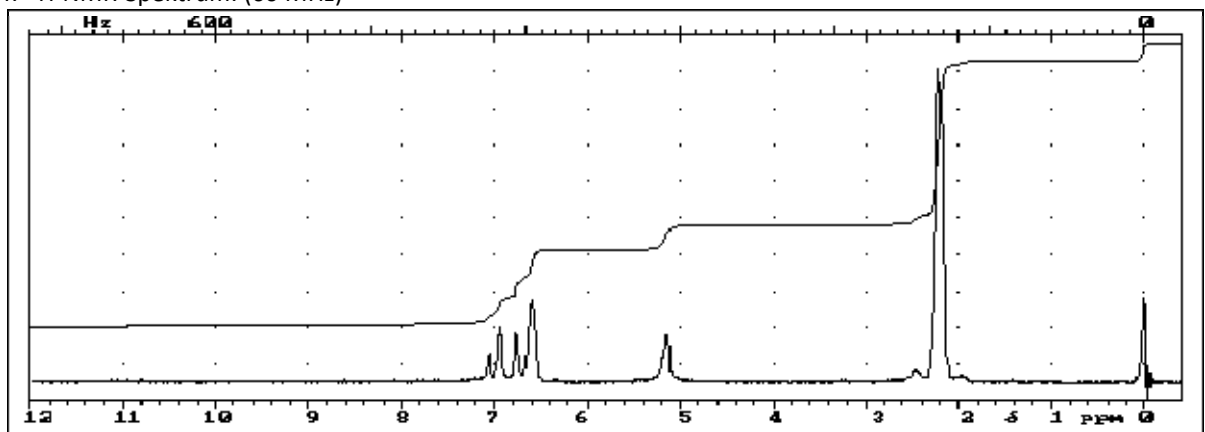
2. MS-Spektrum



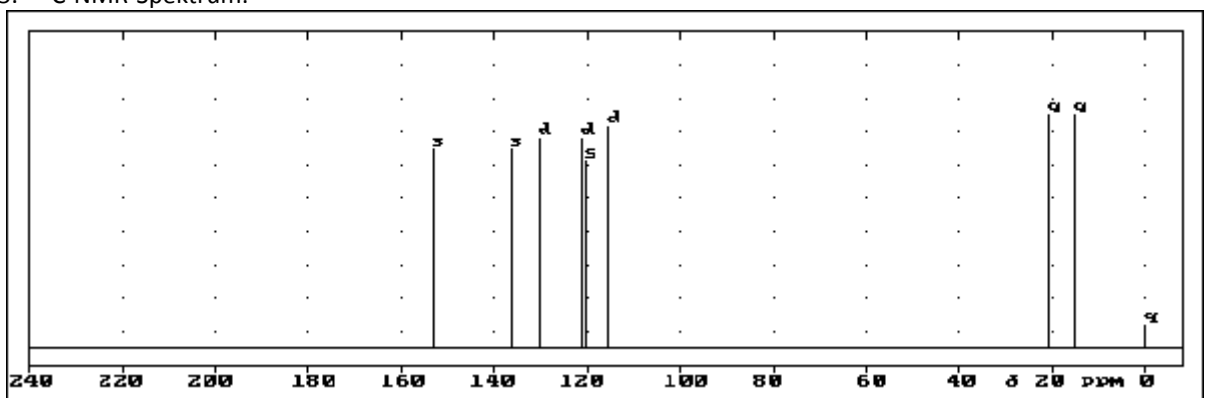
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



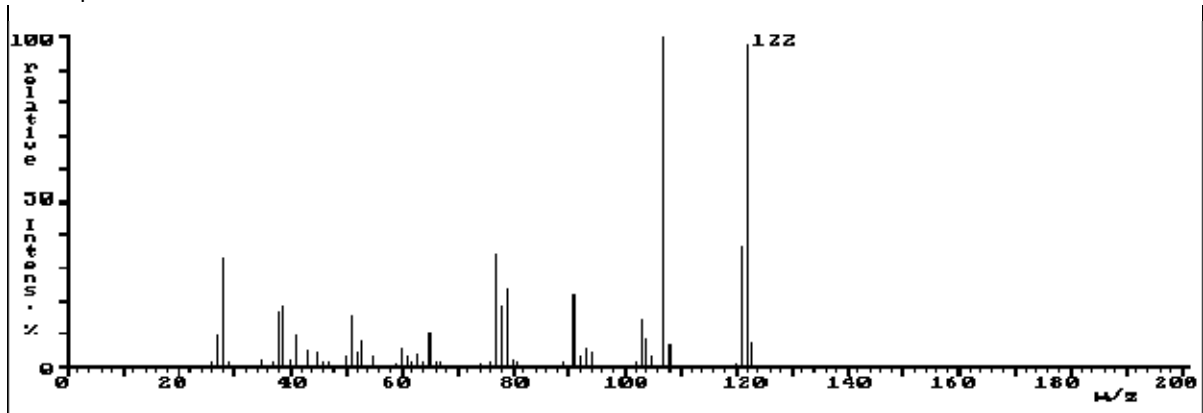
5. <sup>13</sup>C-NMR-Spektrum:



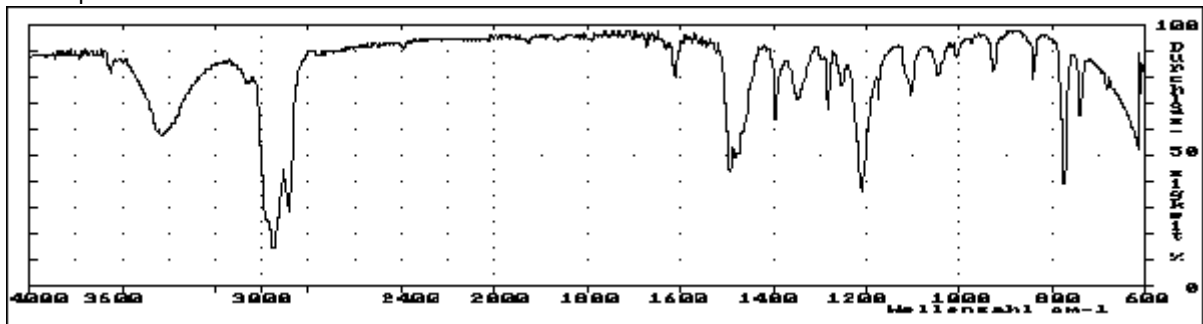
1. Quantitative Analyse:

C: 78.65 %	H: 08.25 %	O:				enthält: C, H, O
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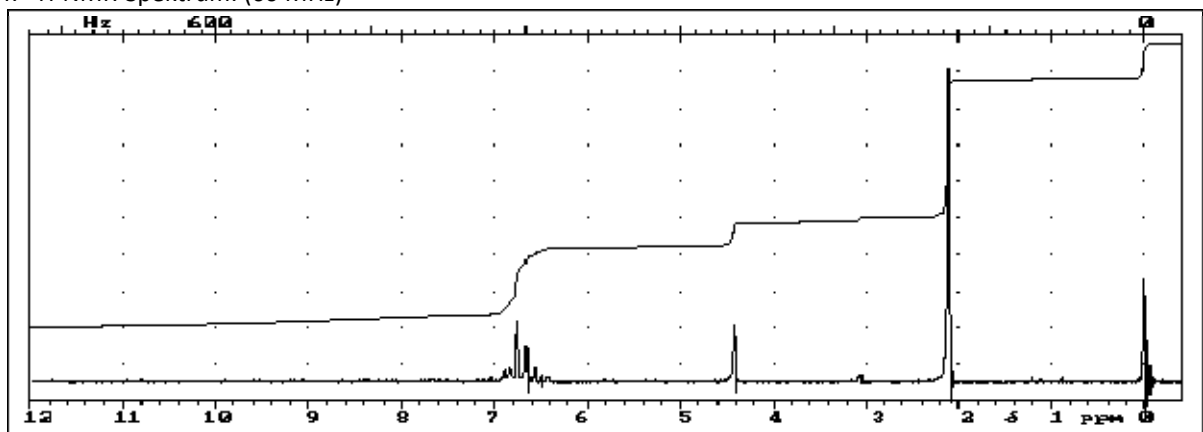
2. MS-Spektrum



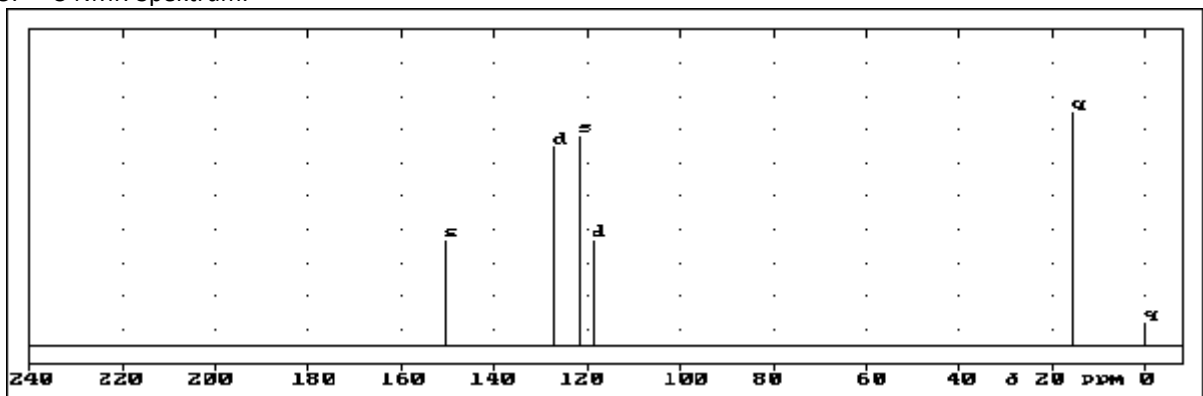
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



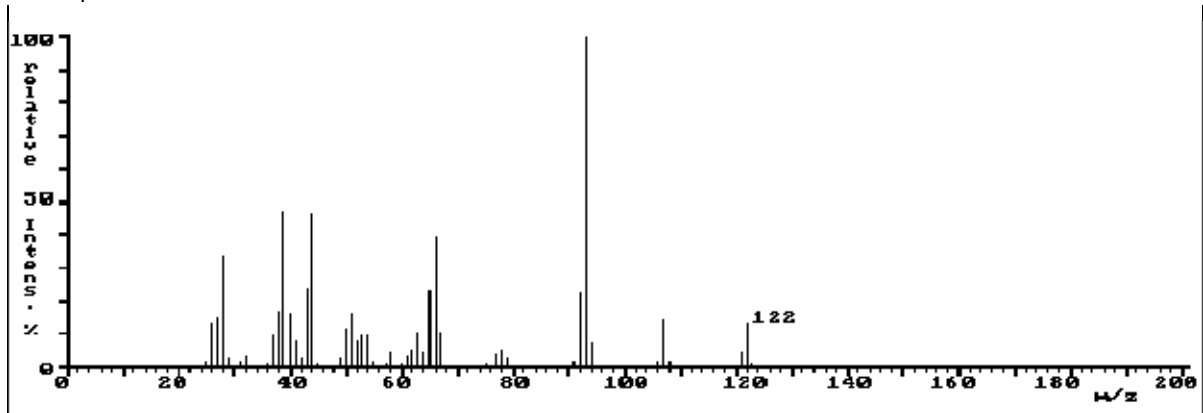
5. <sup>13</sup>C-NMR-Spektrum:



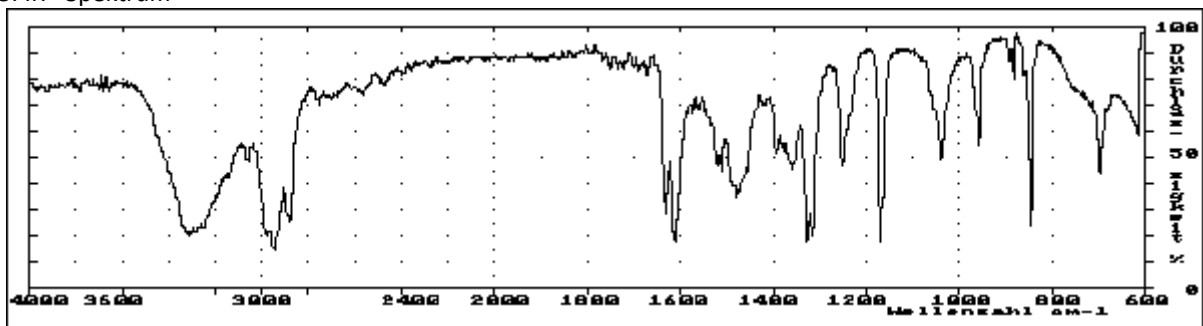
1. Quantitative Analyse:

C: 78.65 %	H: 08.25 %	O:				enthält: C, H, O
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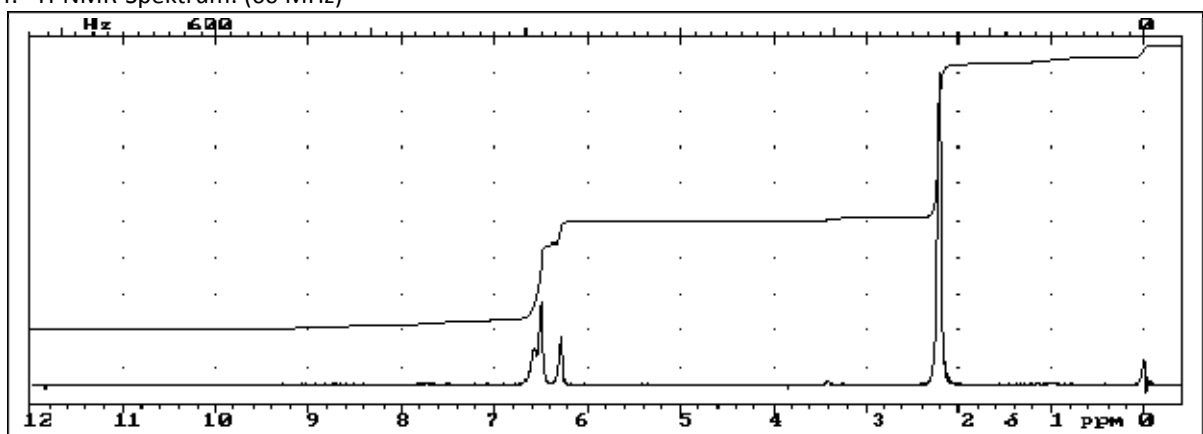
2. MS-Spektrum



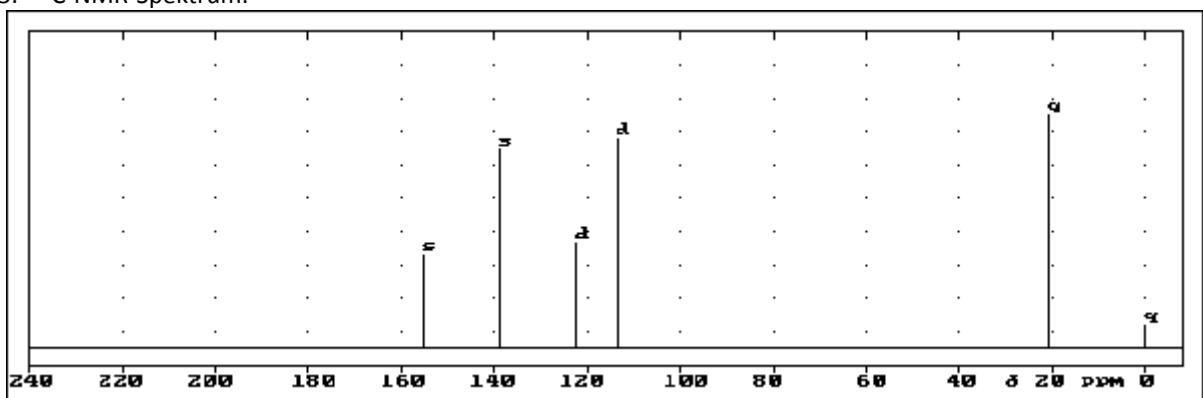
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



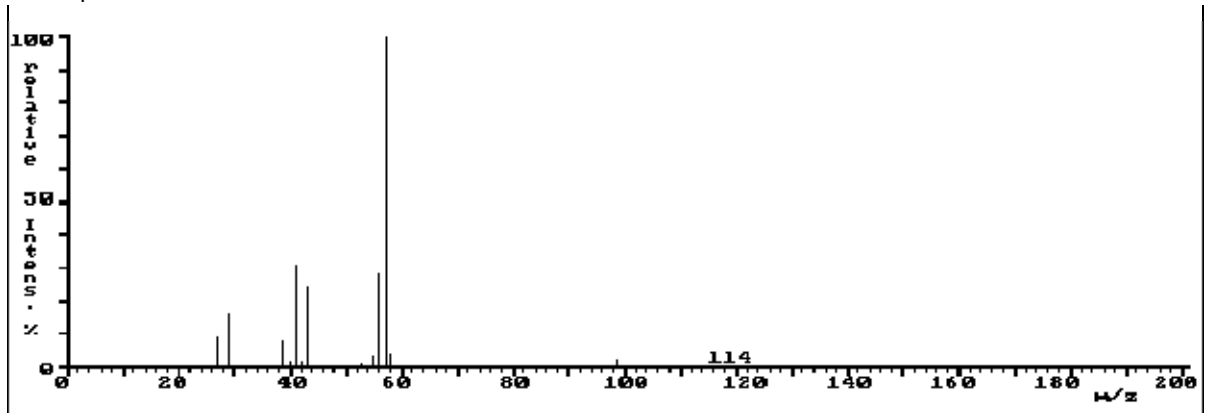
5. <sup>13</sup>C-NMR-Spektrum:



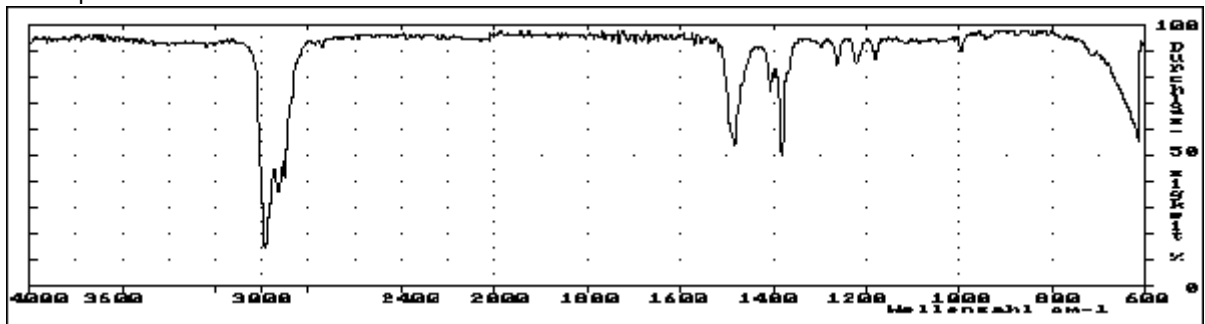
1. Quantitative Analyse:

C: 84.12%	H: 15.88 %	O:				enthält: C, H
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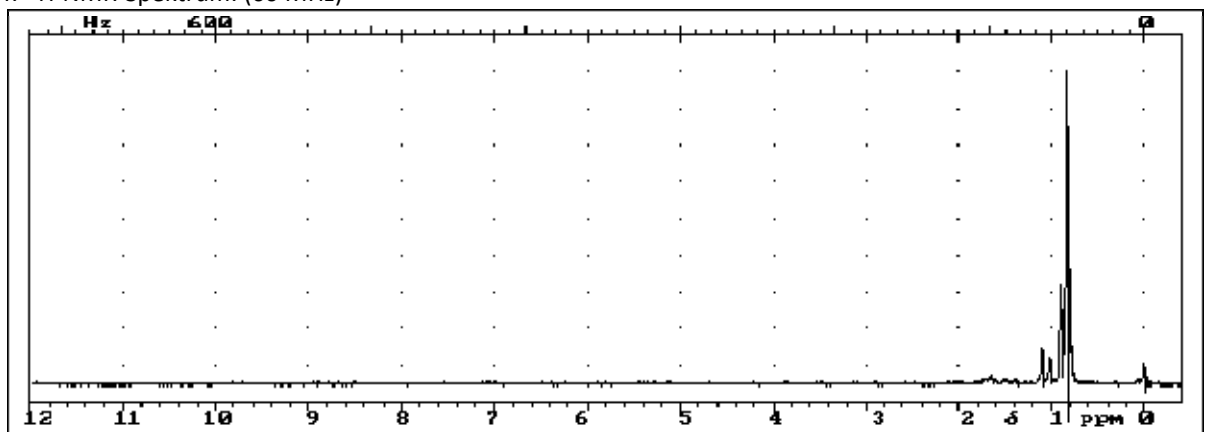
2. MS-Spektrum



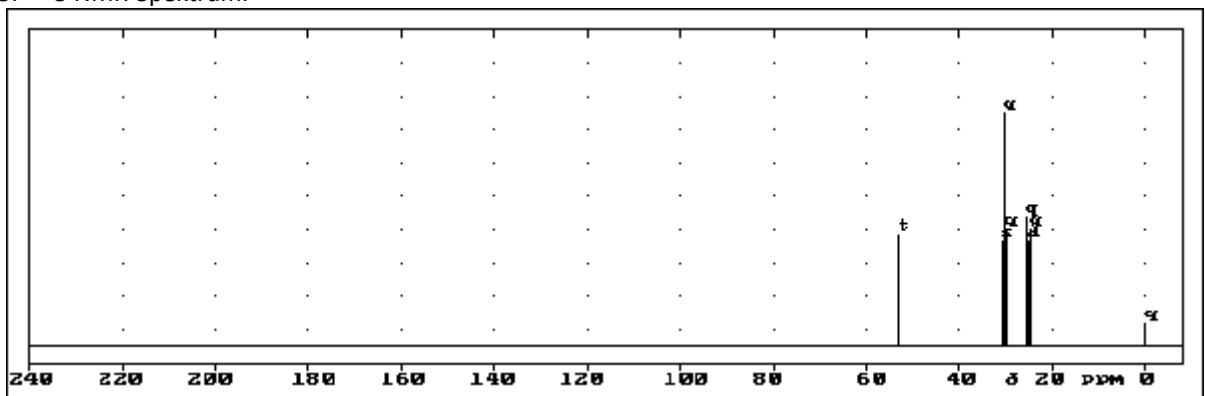
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

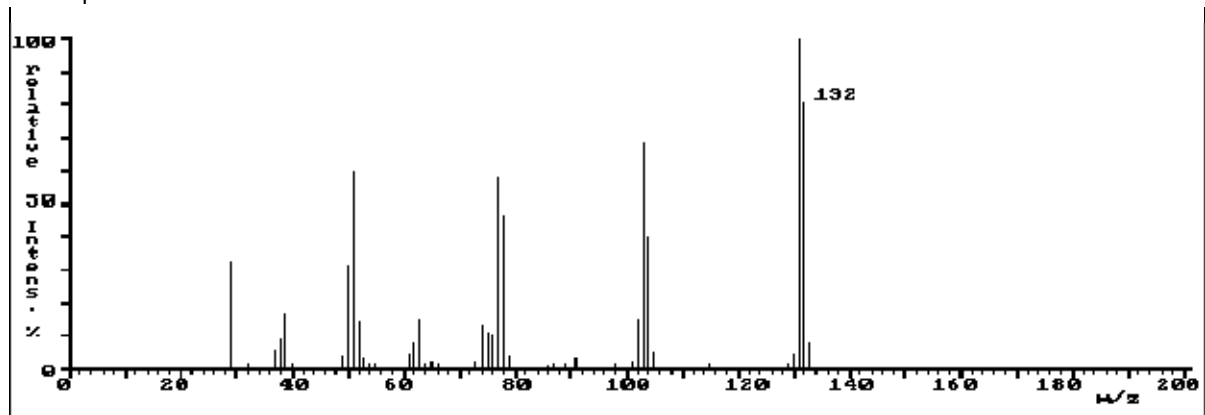




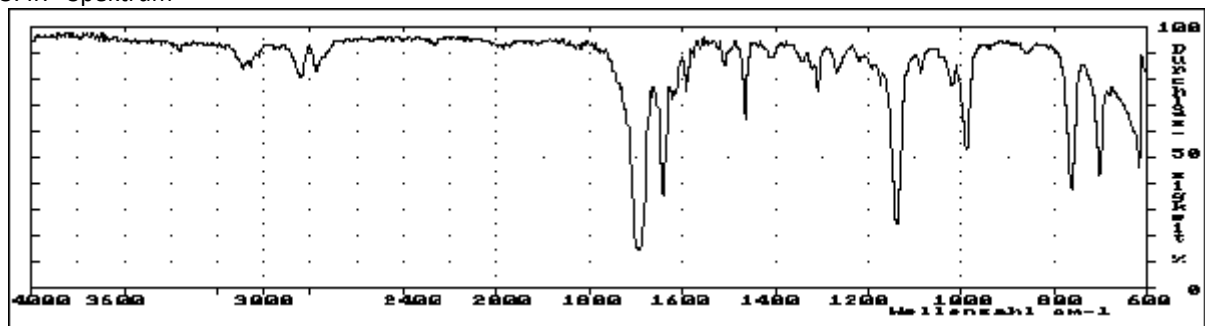
1. Quantitative Analyse:

C: 81.79%	H: 06.10 %	O:				enthält: C, H, O
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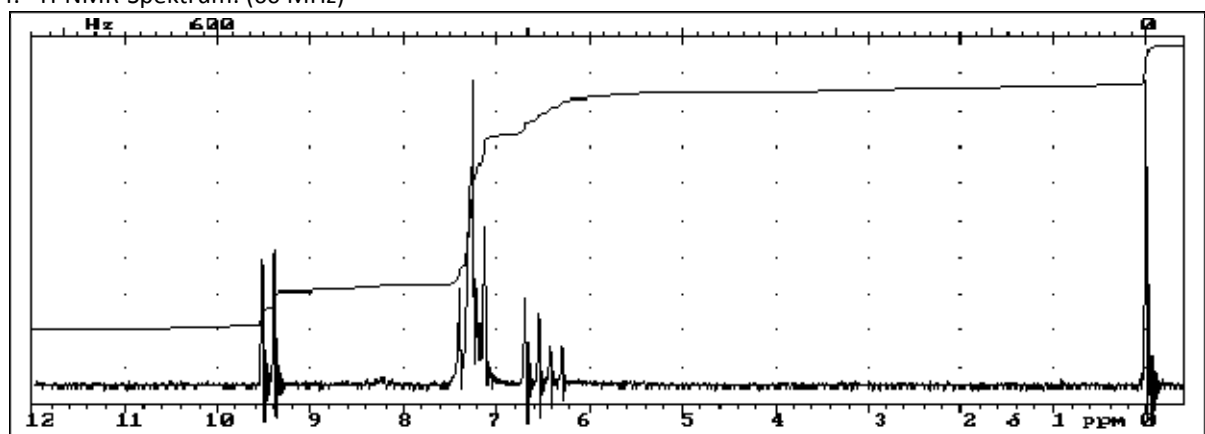
2. MS-Spektrum



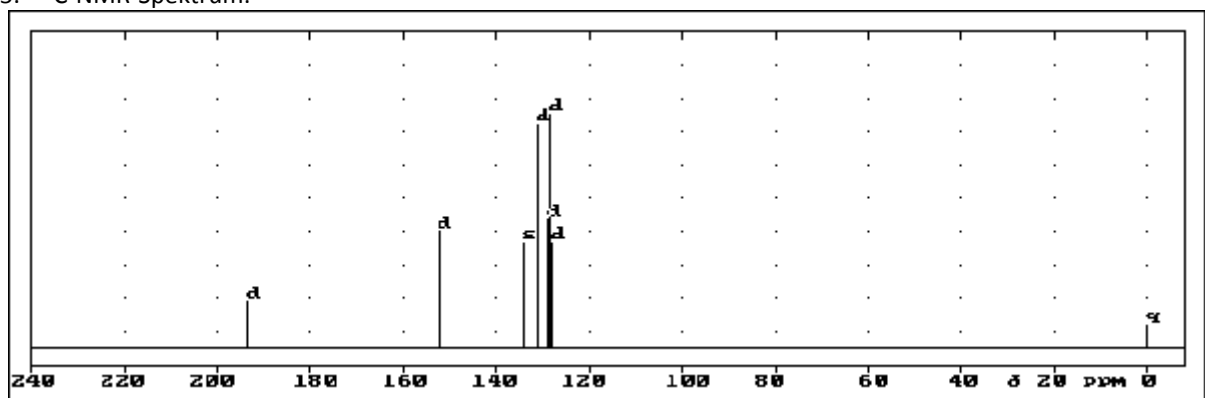
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



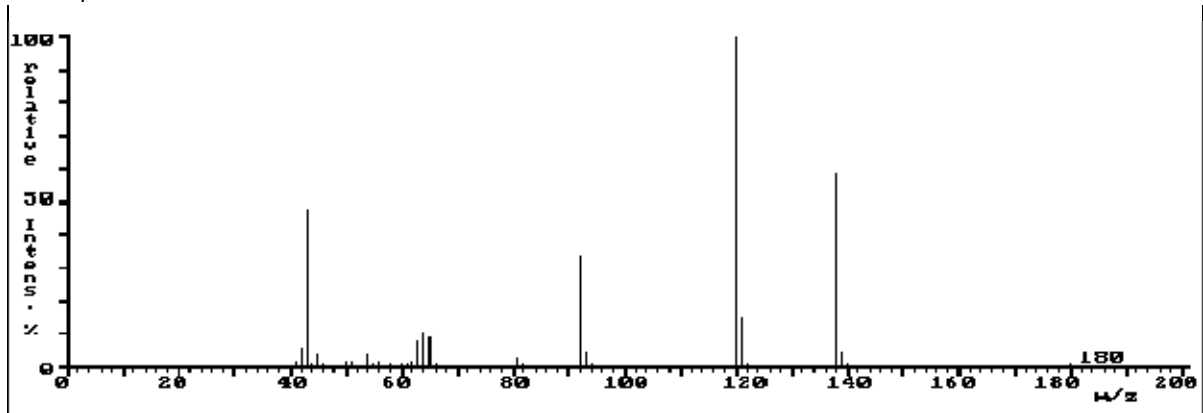
5. <sup>13</sup>C-NMR-Spektrum:



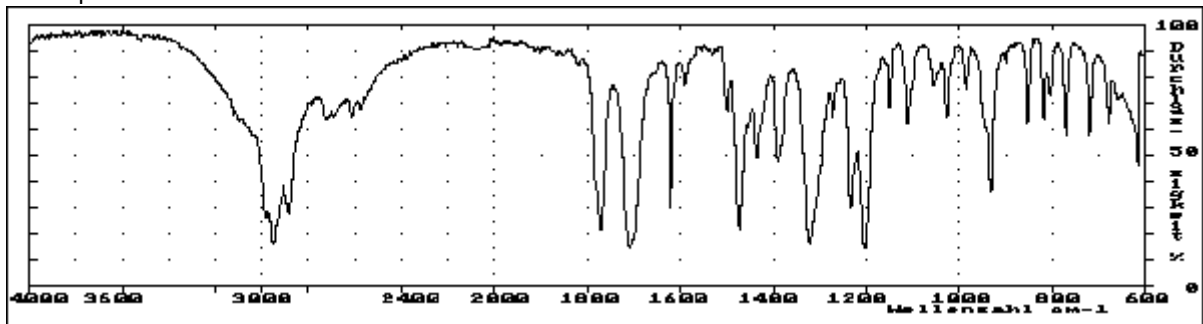
1. Quantitative Analyse:

C: 60.00%	H: 04.48 %	O:				enthält: C, H, O
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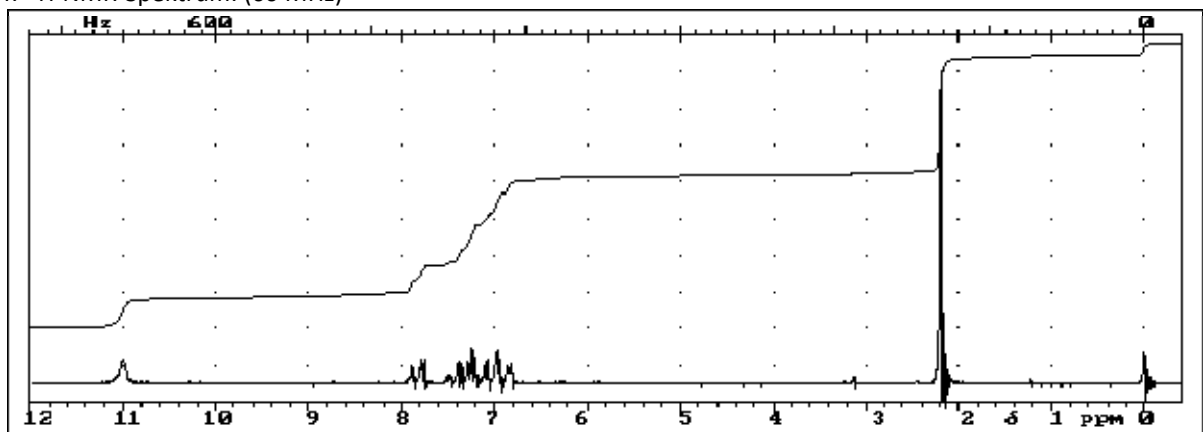
2. MS-Spektrum



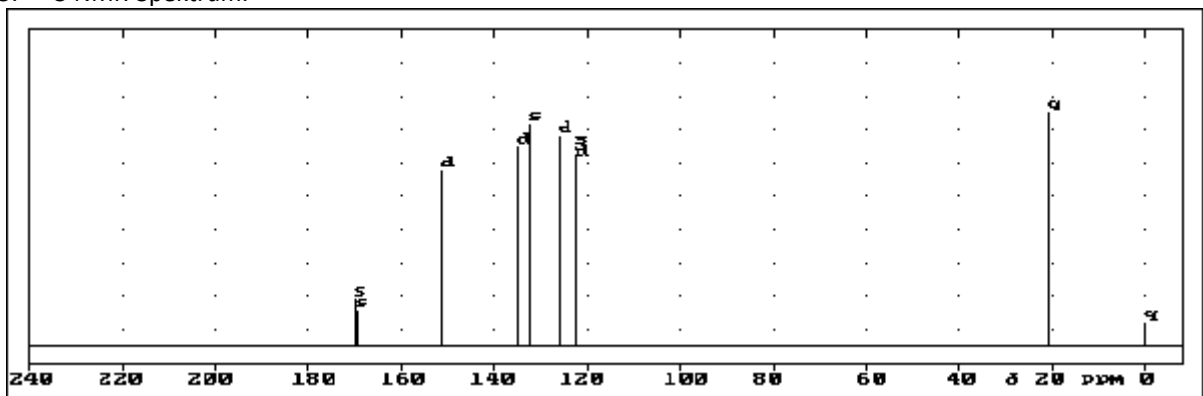
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



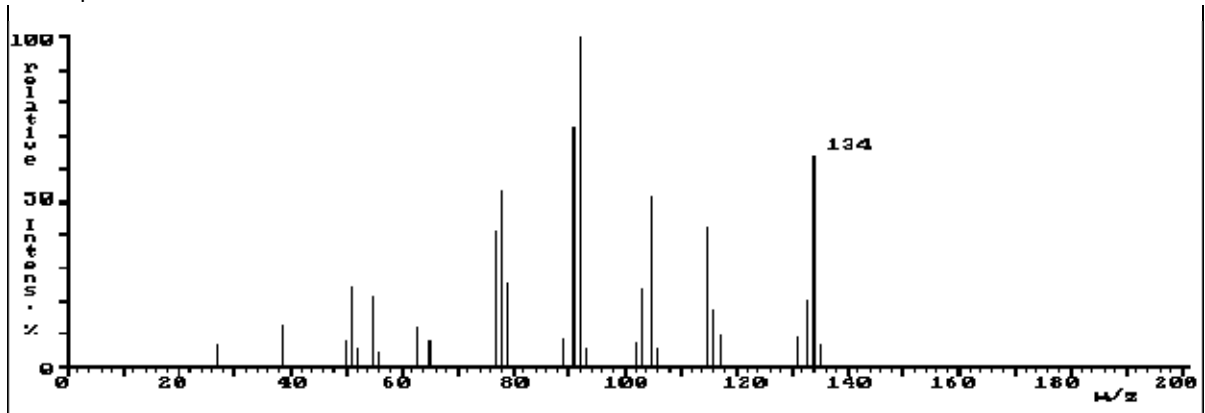
5. <sup>13</sup>C-NMR-Spektrum:



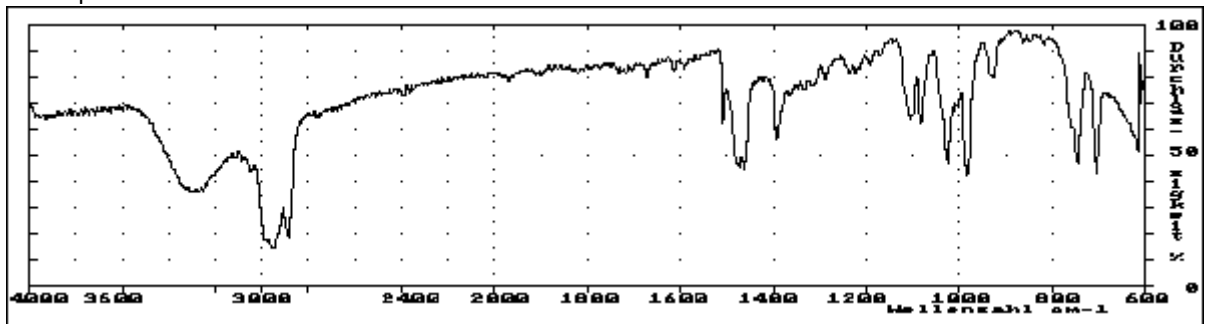
1. Quantitative Analyse:

C: 80.56%	H: 07.51%	O:				enthält: C, H, O
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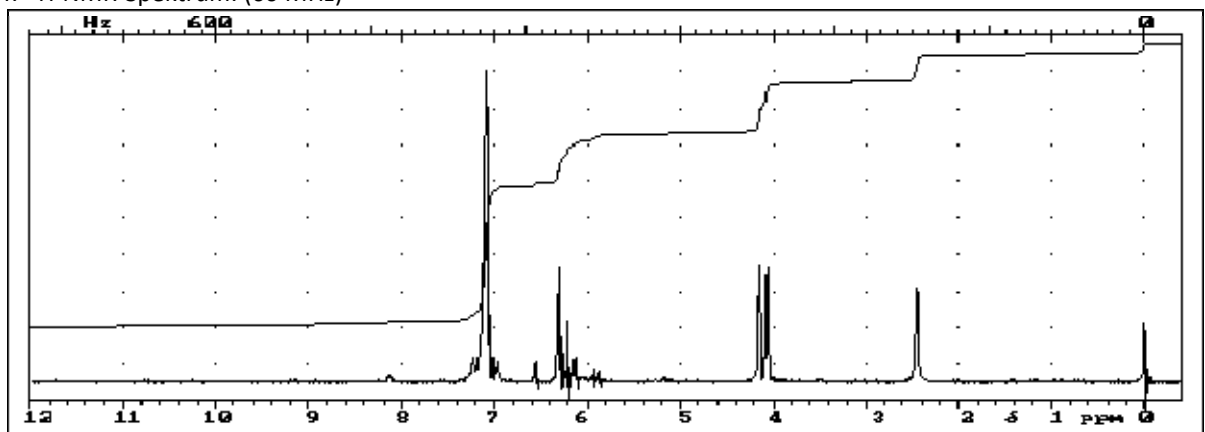
2. MS-Spektrum



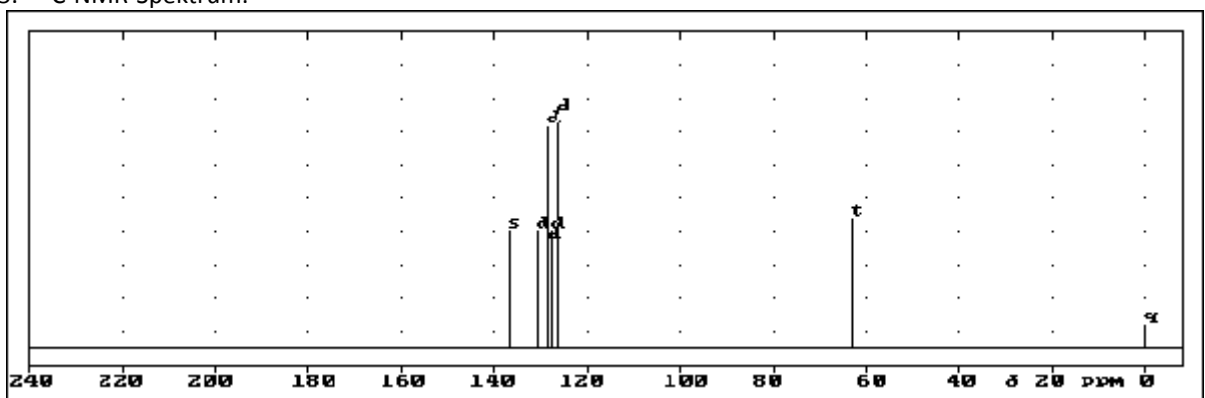
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



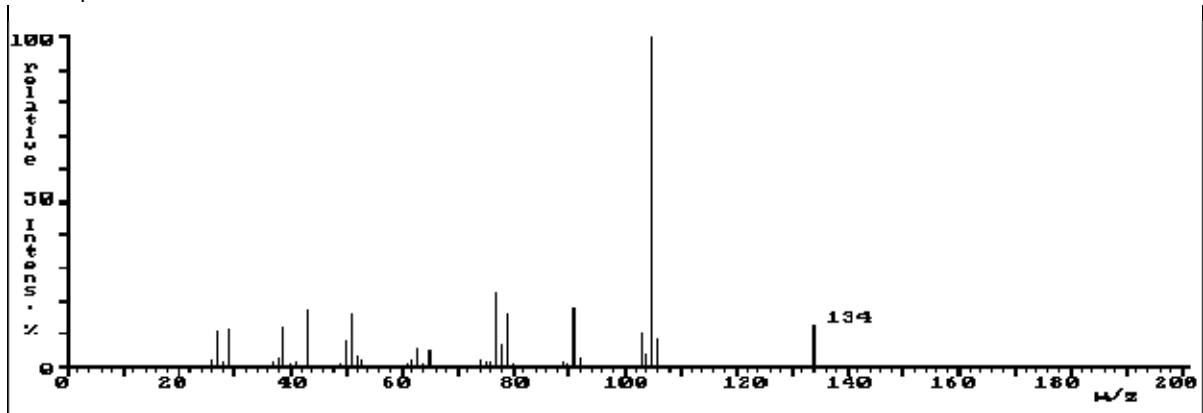
5. <sup>13</sup>C-NMR-Spektrum:



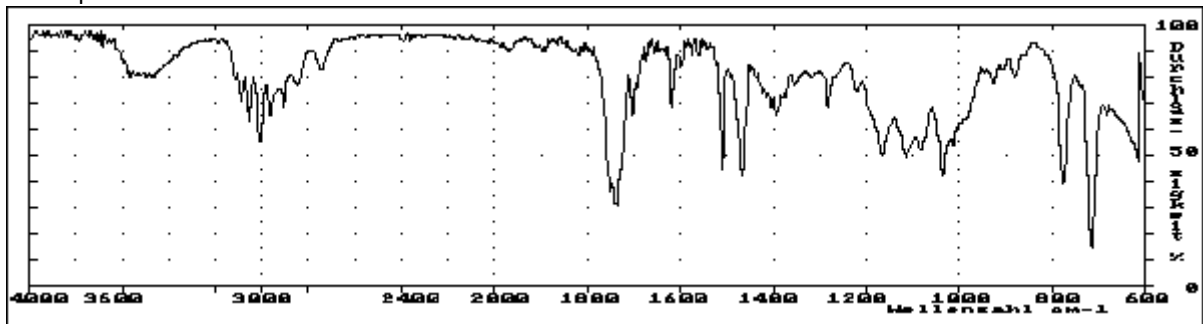
1. Quantitative Analyse:

C: 80.56%	H: 07.51%	O:				enthält: C, H, O
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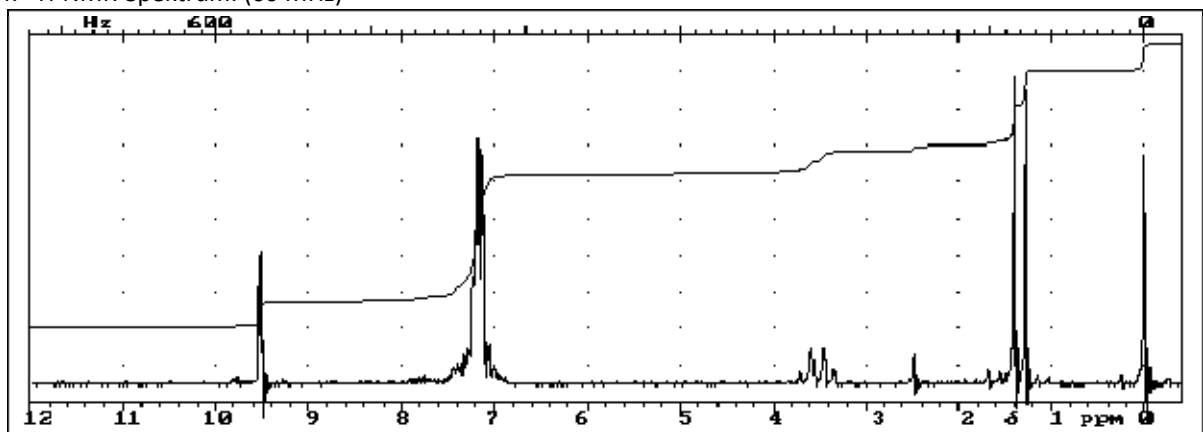
2. MS-Spektrum



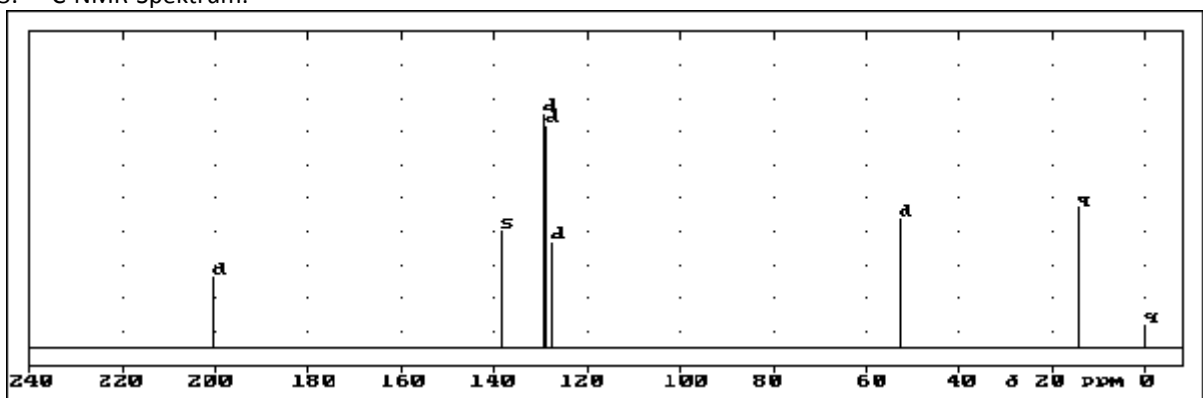
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



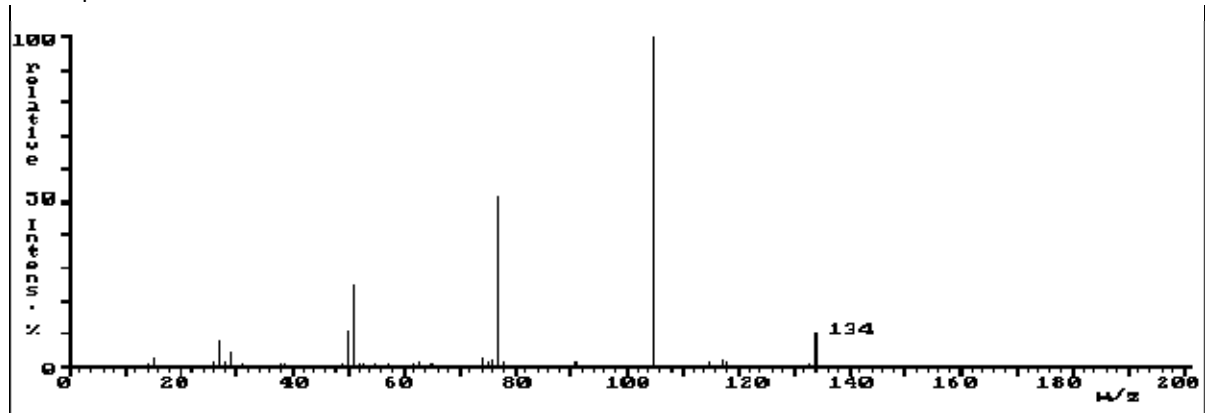
5. <sup>13</sup>C-NMR-Spektrum:



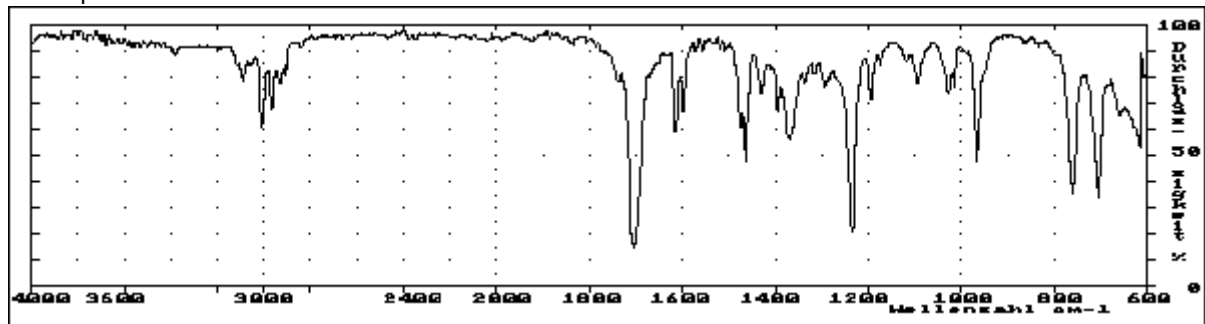
1. Quantitative Analyse:

C: 80.56%	H: 07.51 %	O:				enthält: C, H, O
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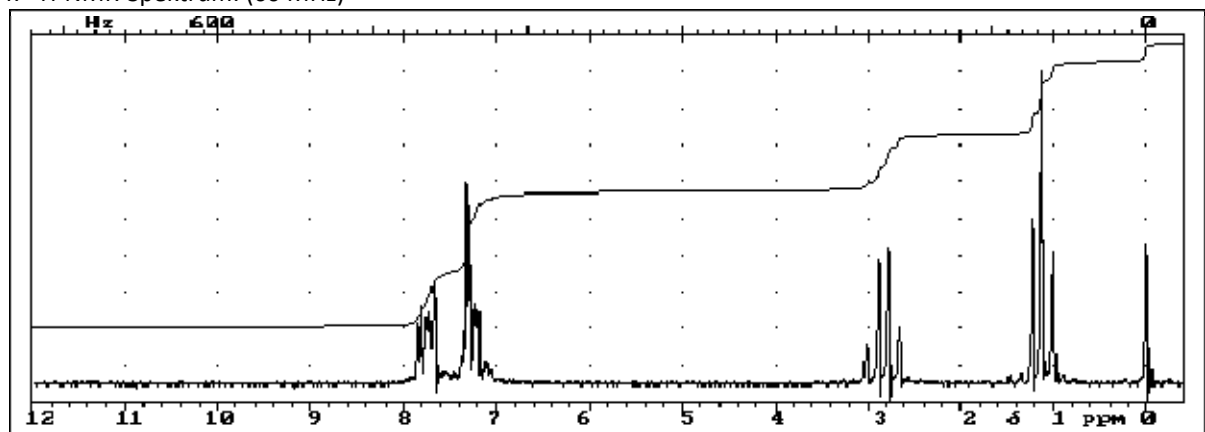
2. MS-Spektrum



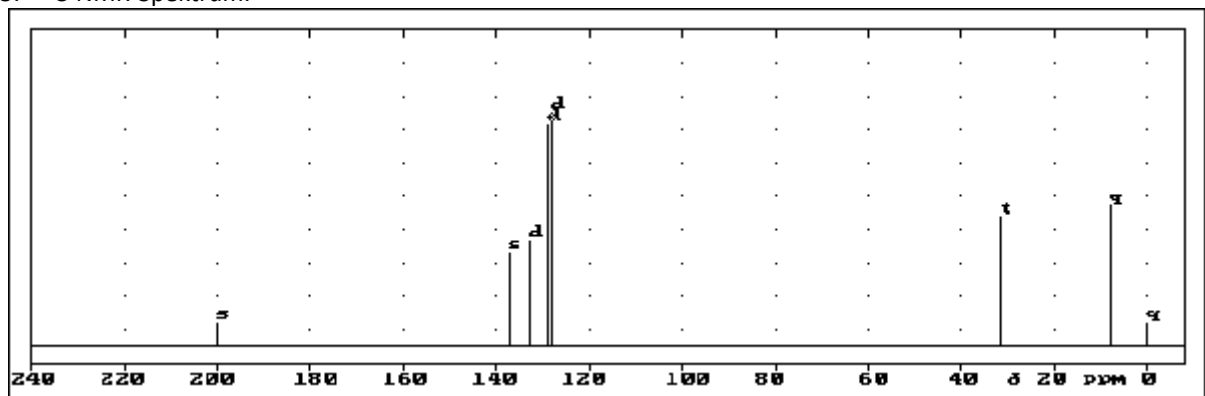
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



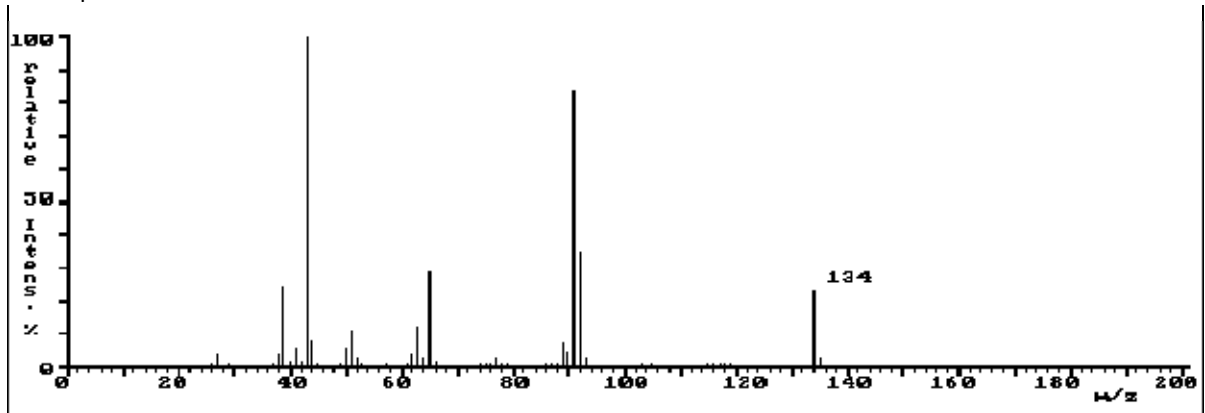
5. <sup>13</sup>C-NMR-Spektrum:



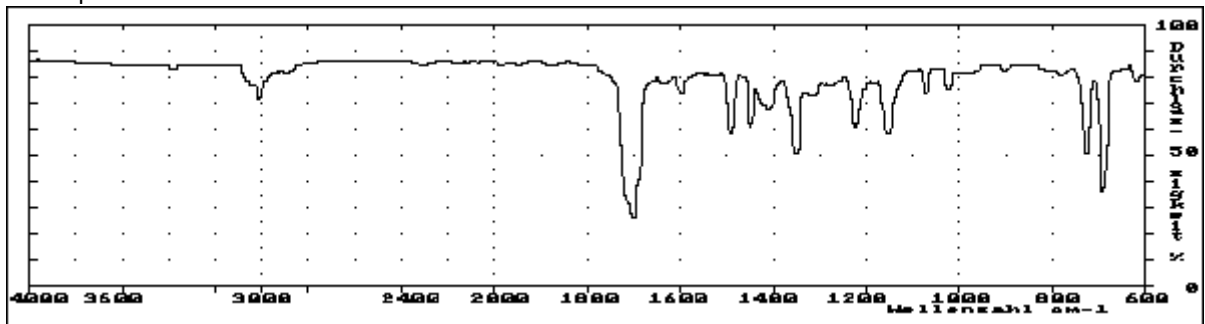
1. Quantitative Analyse:

C: 80.79%	H: 07.62 %	O:				enthält: C, H, O
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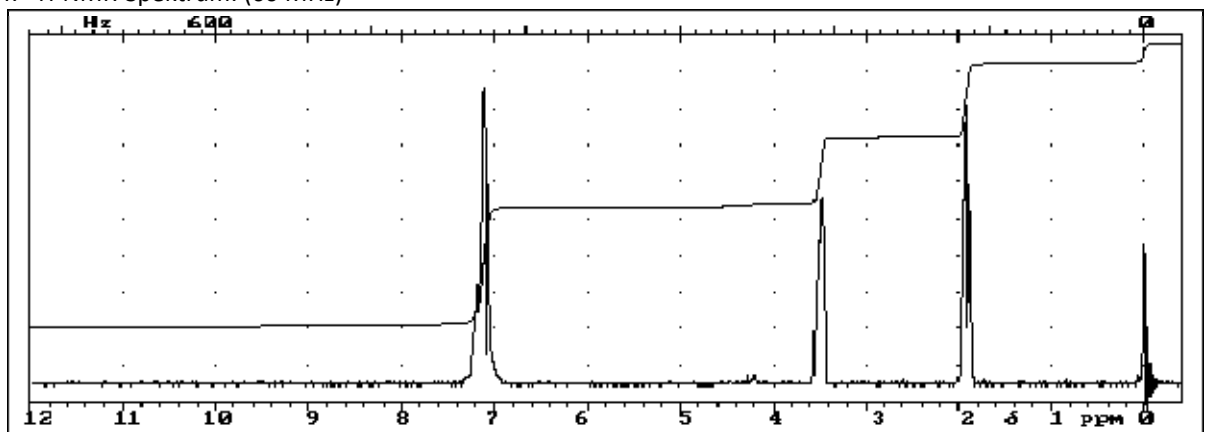
2. MS-Spektrum



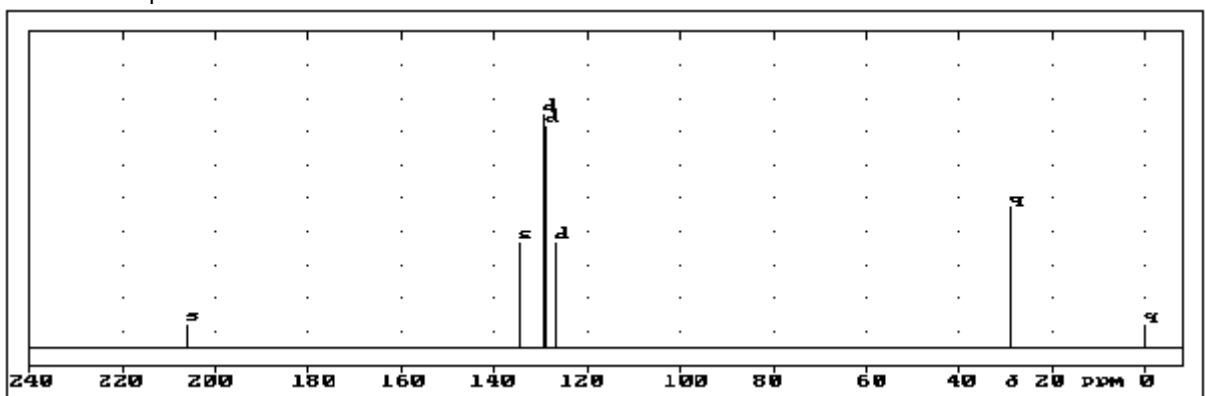
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



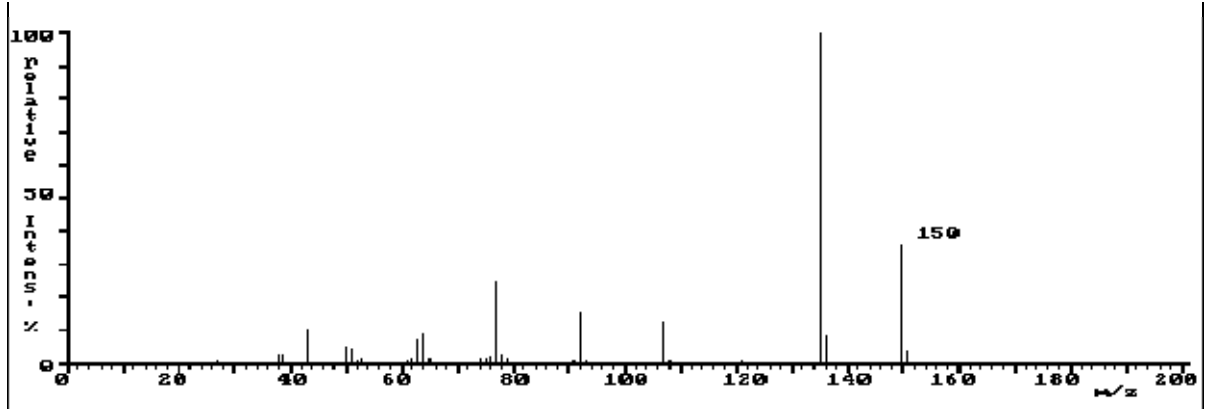
5. <sup>13</sup>C-NMR-Spektrum:



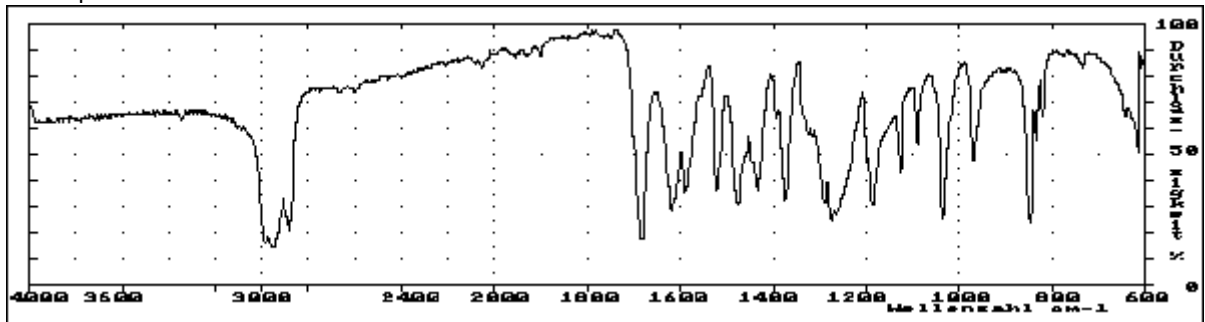
1. Quantitative Analyse:

C: 71.98%	H: 06.71 %	O:				enthält: C, H, O
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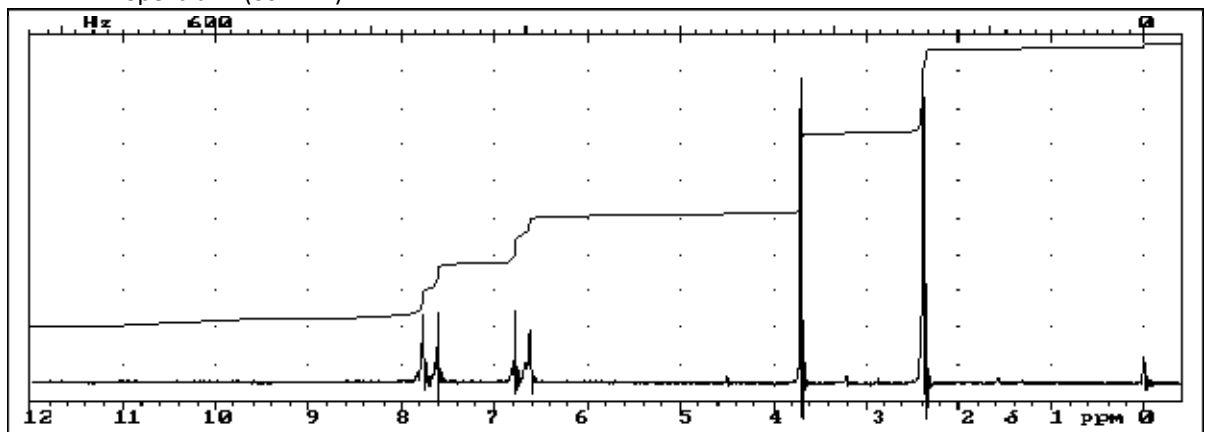
2. MS-Spektrum



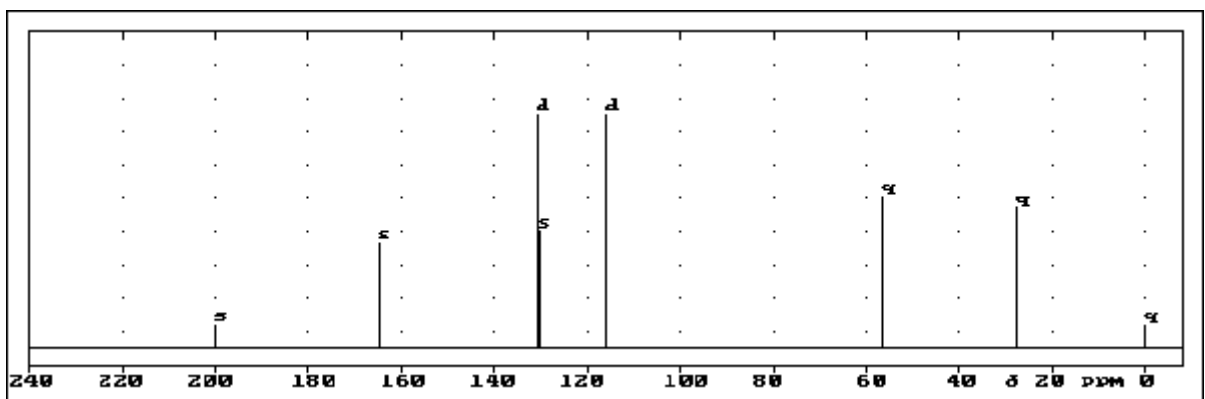
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



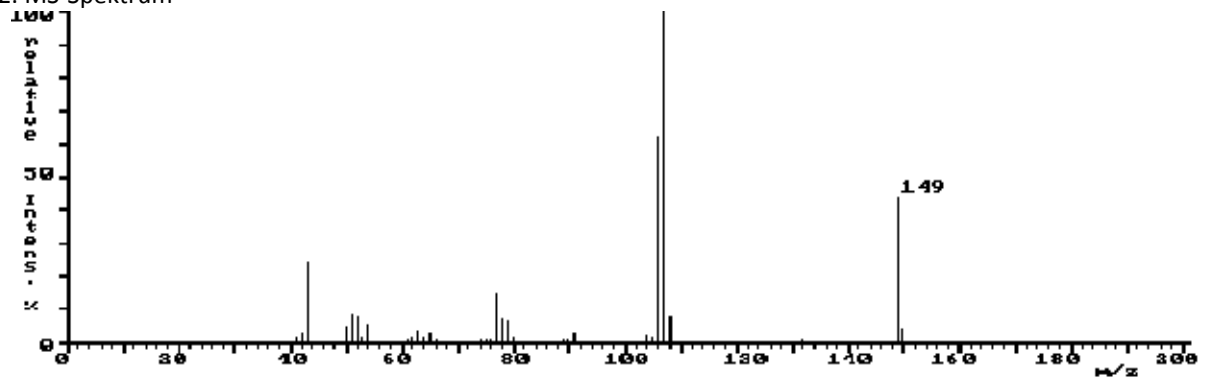
5. <sup>13</sup>C-NMR-Spektrum:



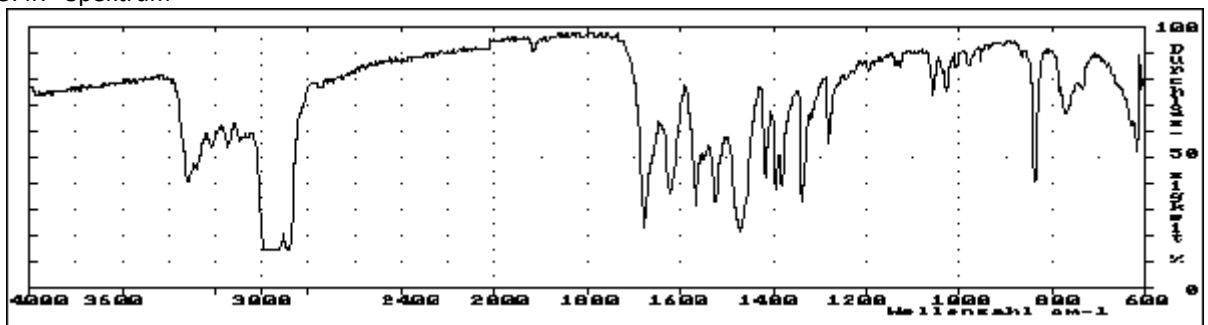
1. Quantitative Analyse:

C: 72.46%	H: 07.37%	O:				enthält: C, H, N, O
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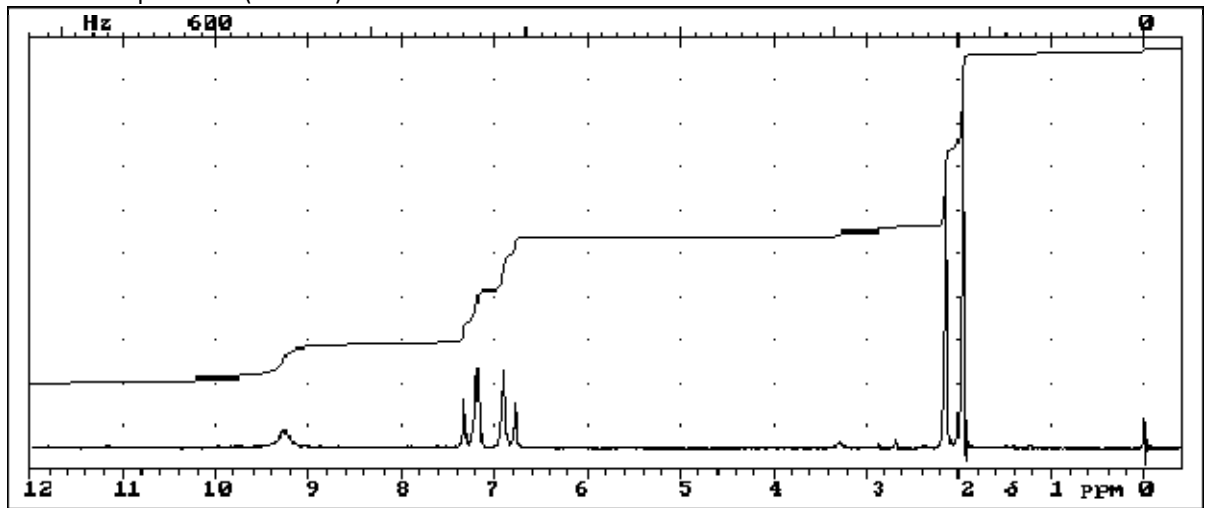
2. MS-Spektrum



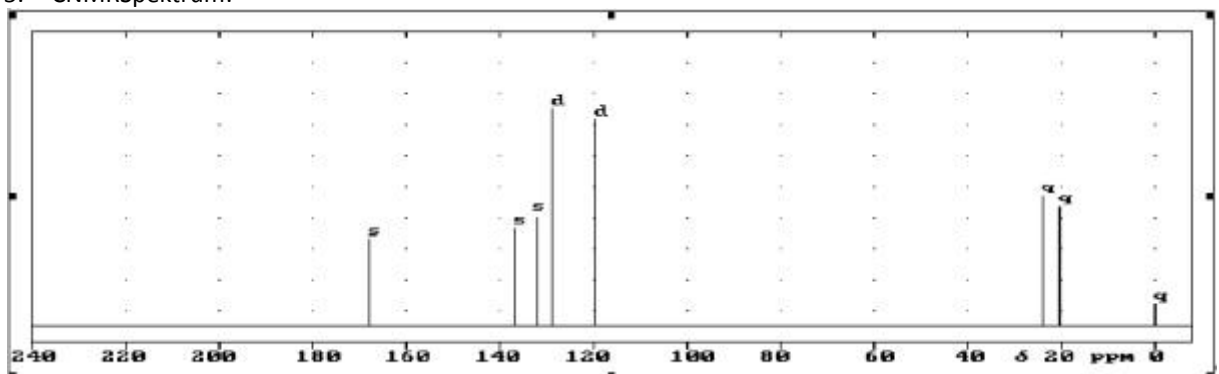
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>CNMR-Spektrum:

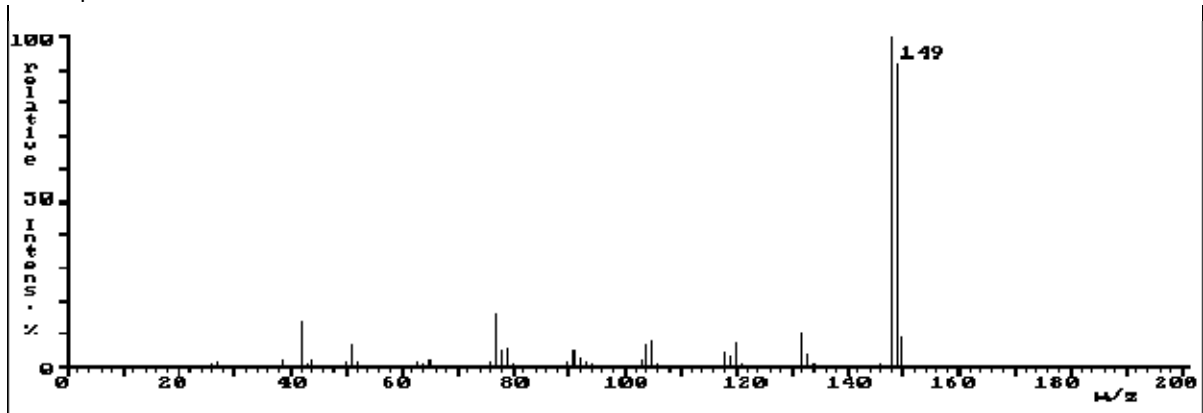




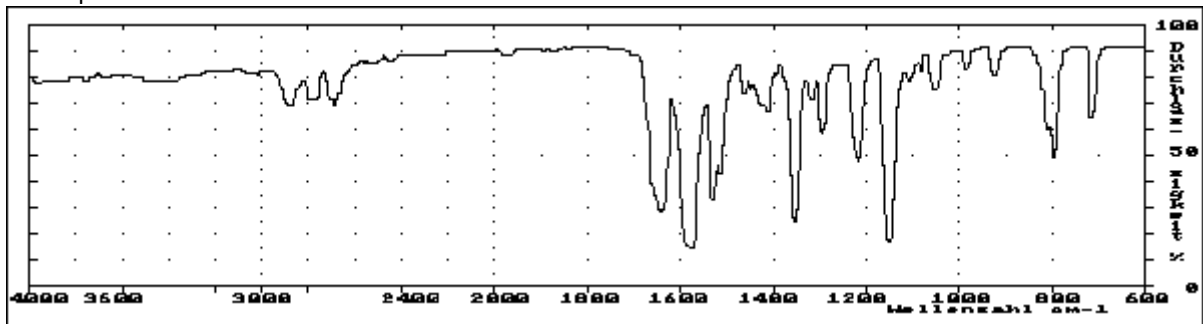
1. Quantitative Analyse:

C: 72.13%	H: 07.53%	O:				enthält: C, H, N, O
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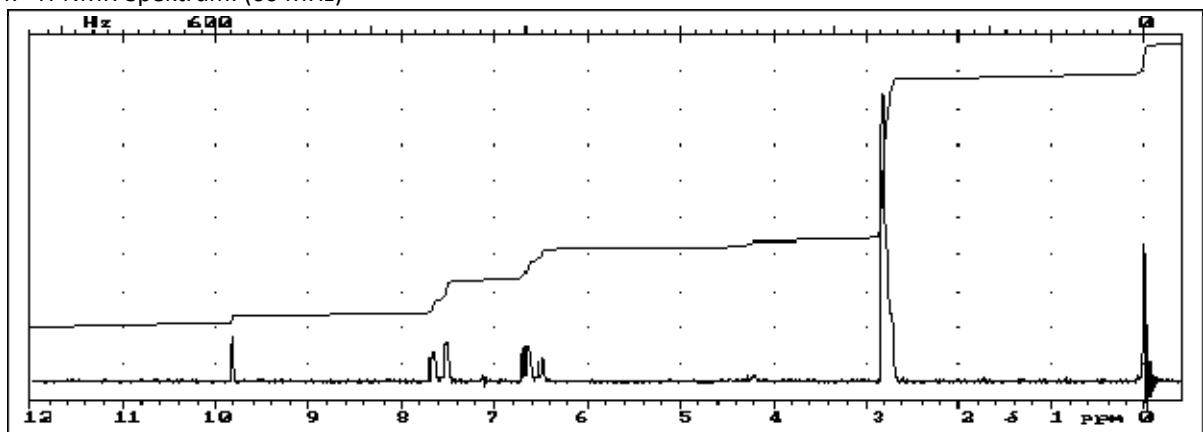
2. MS-Spektrum



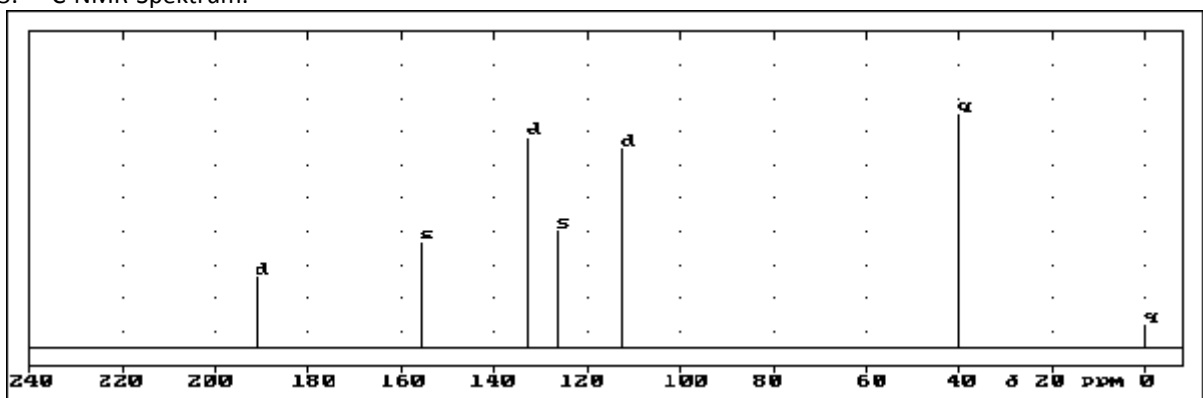
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



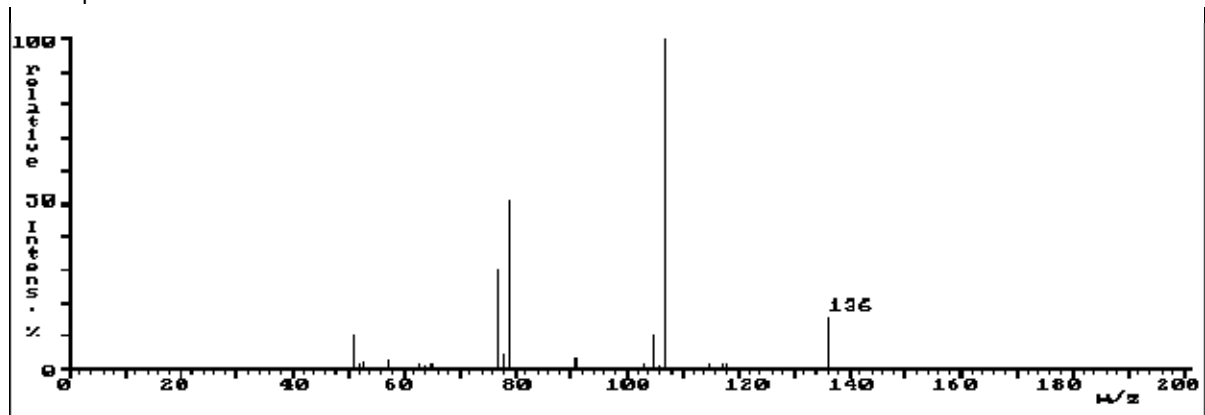
5. <sup>13</sup>C-NMR-Spektrum:



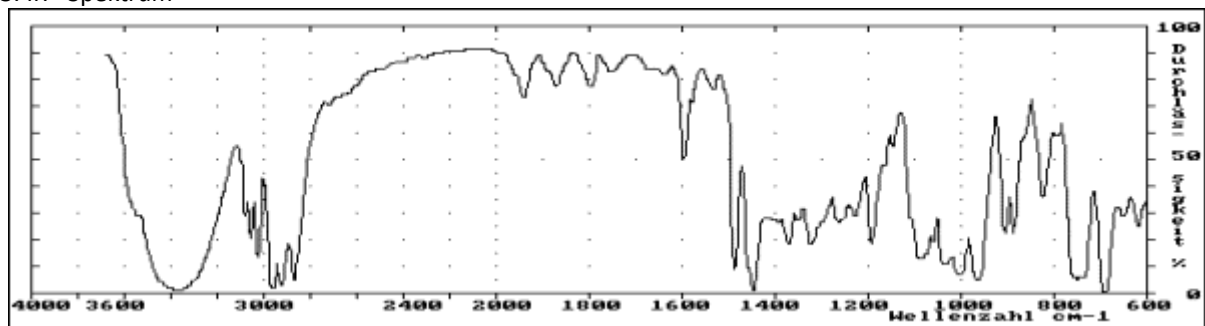
1. Quantitative Analyse:

C: 79.37%	H: 08.88 %	O:				enthält: C, H, O
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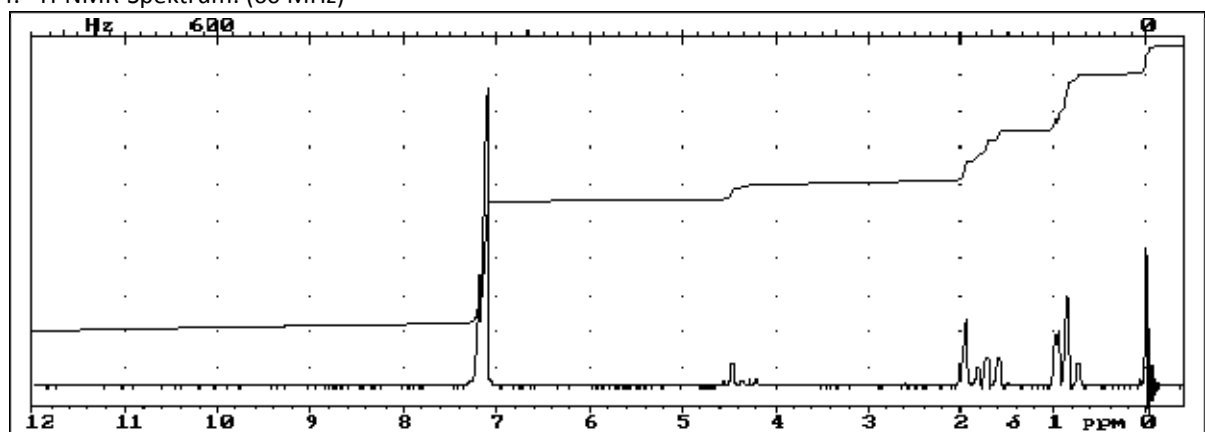
2. MS-Spektrum



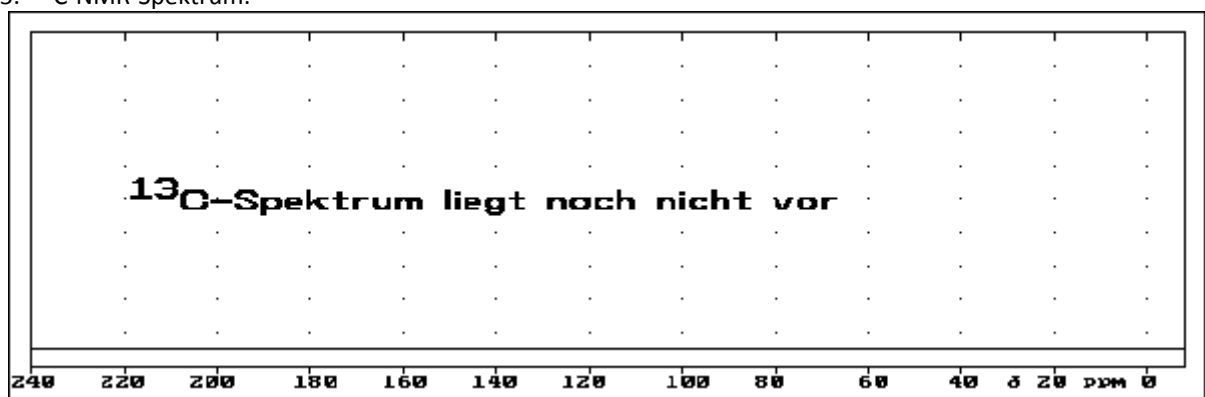
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



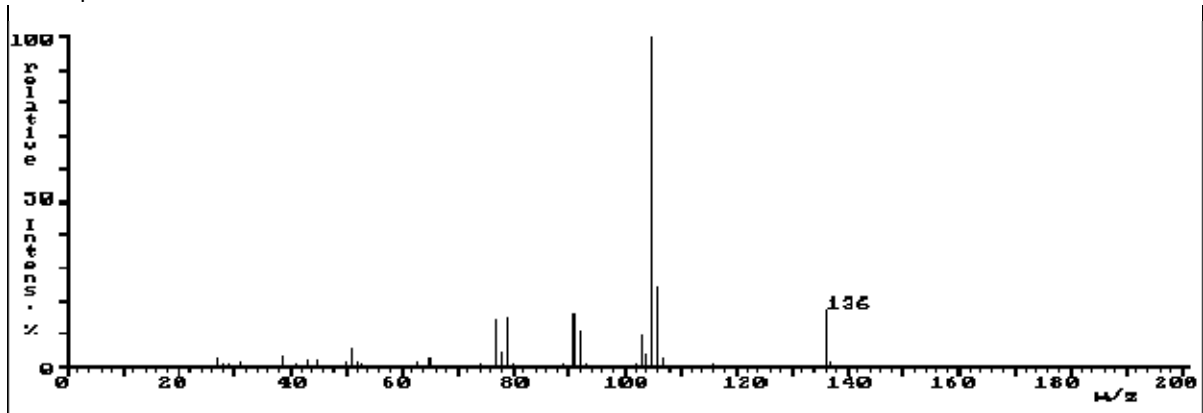
5. <sup>13</sup>C-NMR-Spektrum:



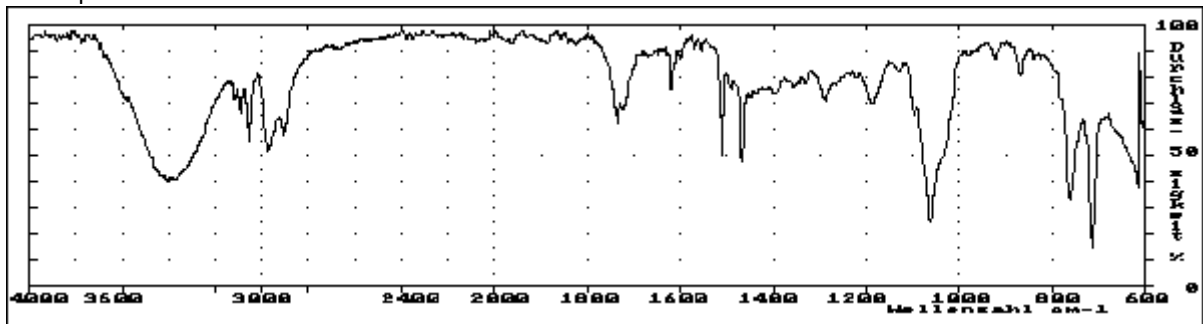
1. Quantitative Analyse:

C: 79.37%	H: 08.88 %	O:				enthält: C, H, O
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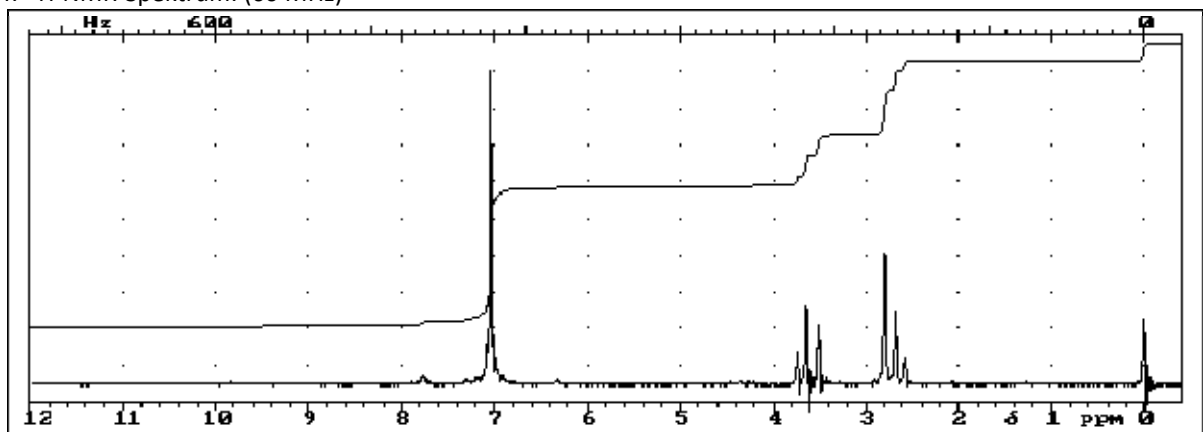
2. MS-Spektrum



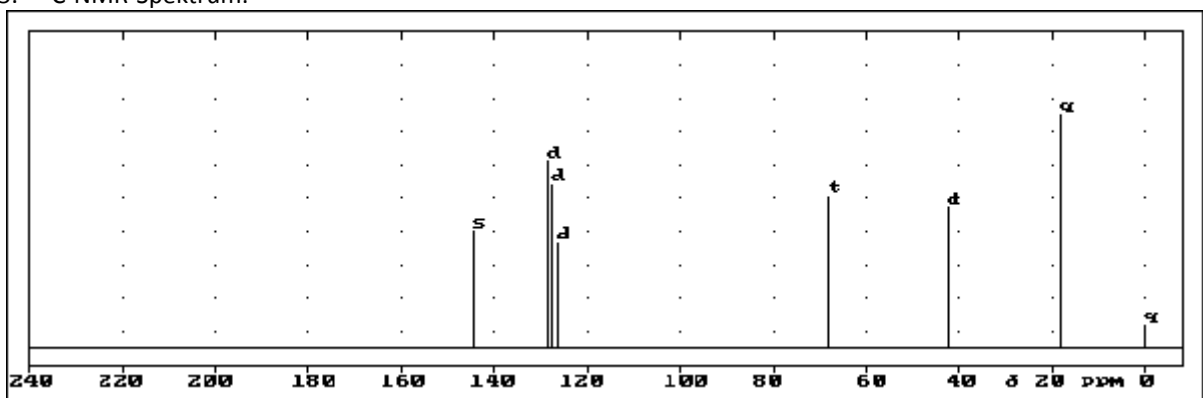
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



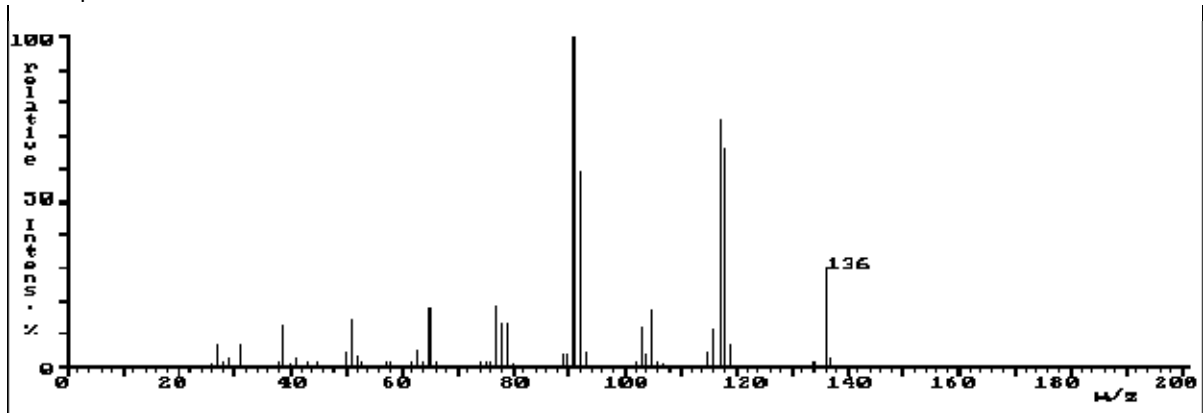
5. <sup>13</sup>C-NMR-Spektrum:



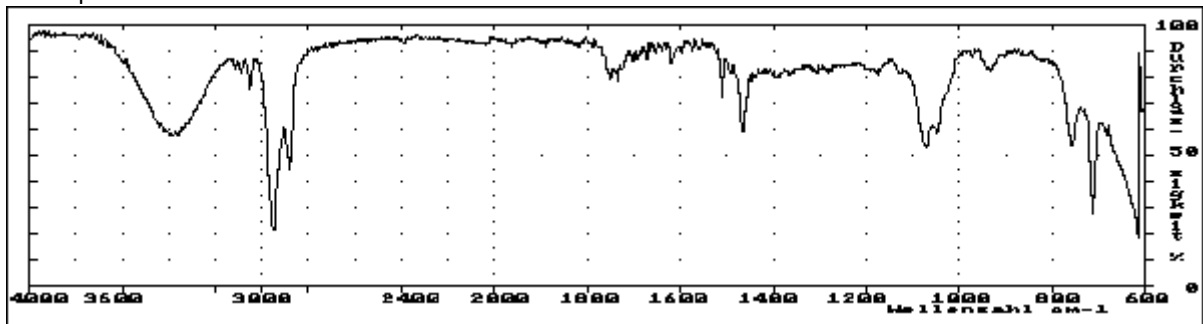
1. Quantitative Analyse:

C: 79.374%	H: 08.88%	O:				enthält: C, H, O
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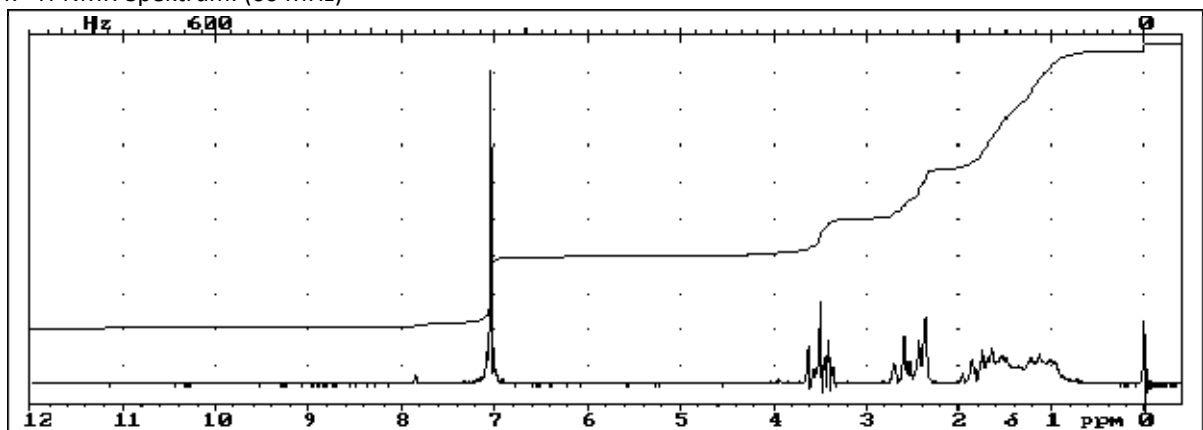
2. MS-Spektrum



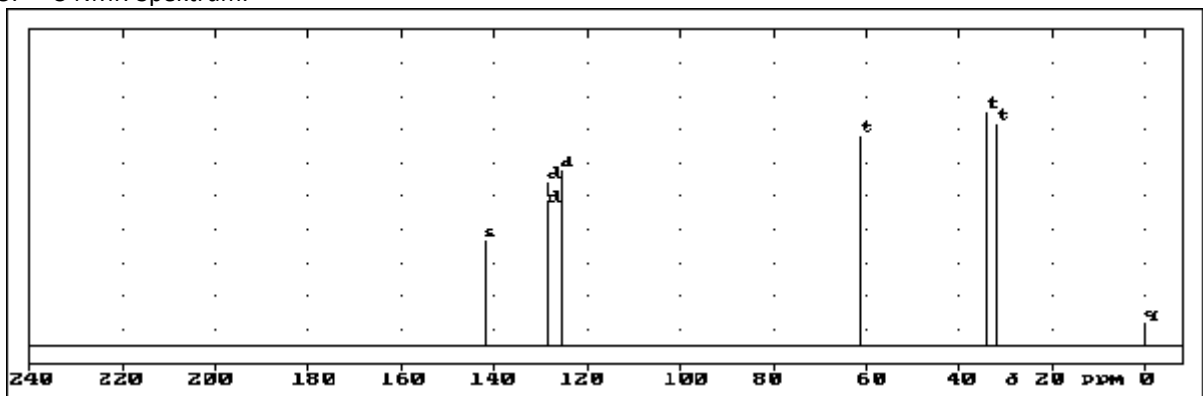
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



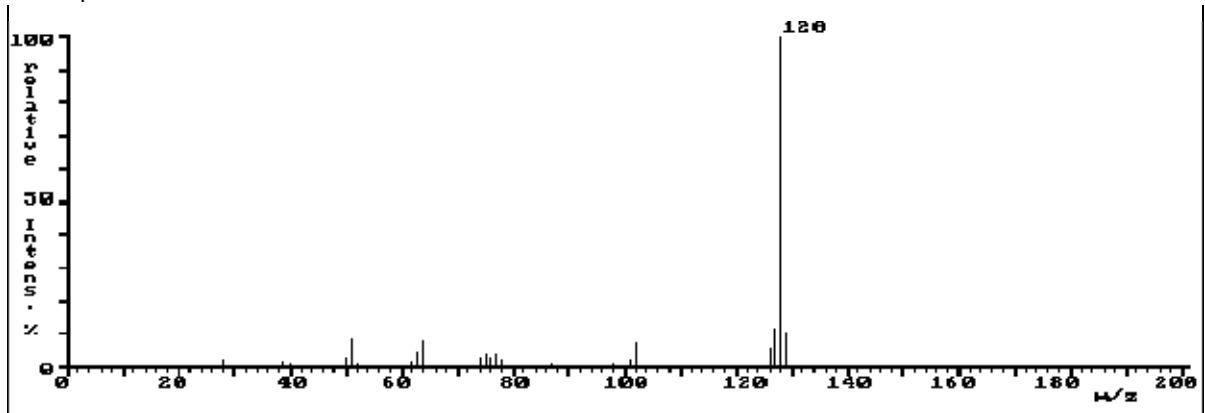
5. <sup>13</sup>C-NMR-Spektrum:



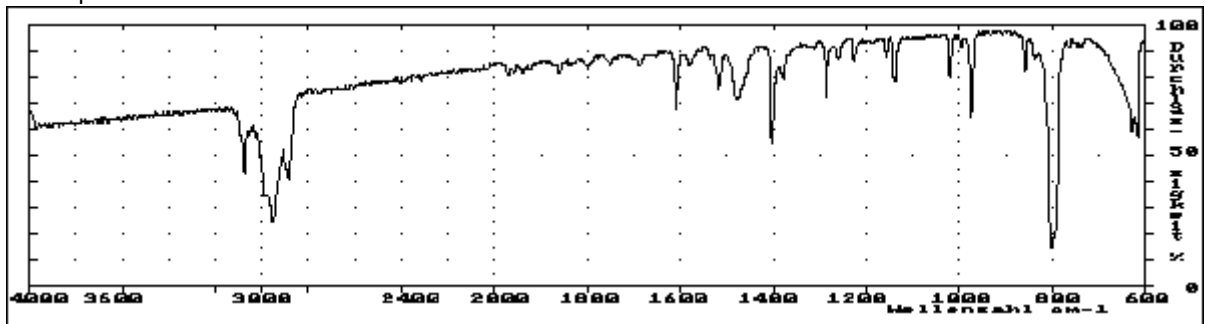
1. Quantitative Analyse:

C: 93.71 %	H: 06.29 %	O:				enthält: C, H
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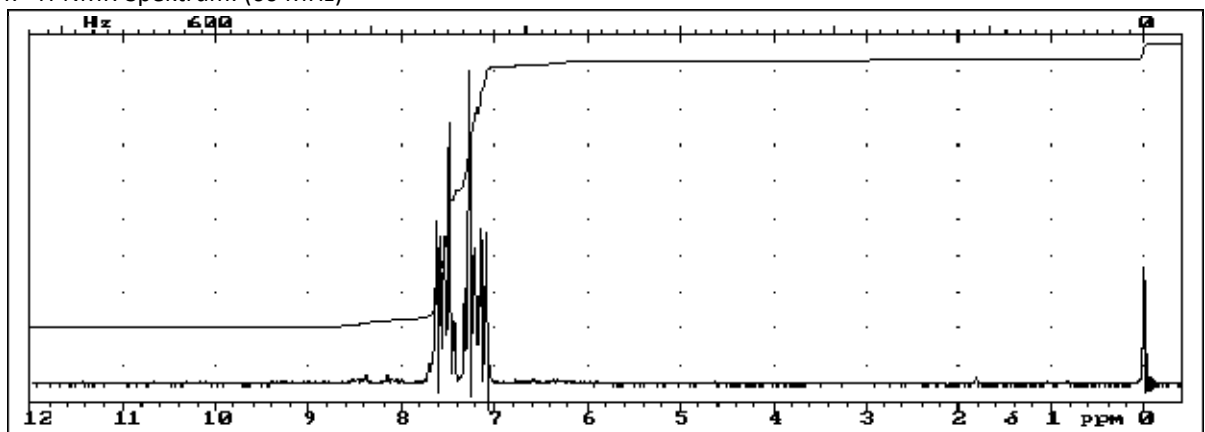
2. MS-Spektrum



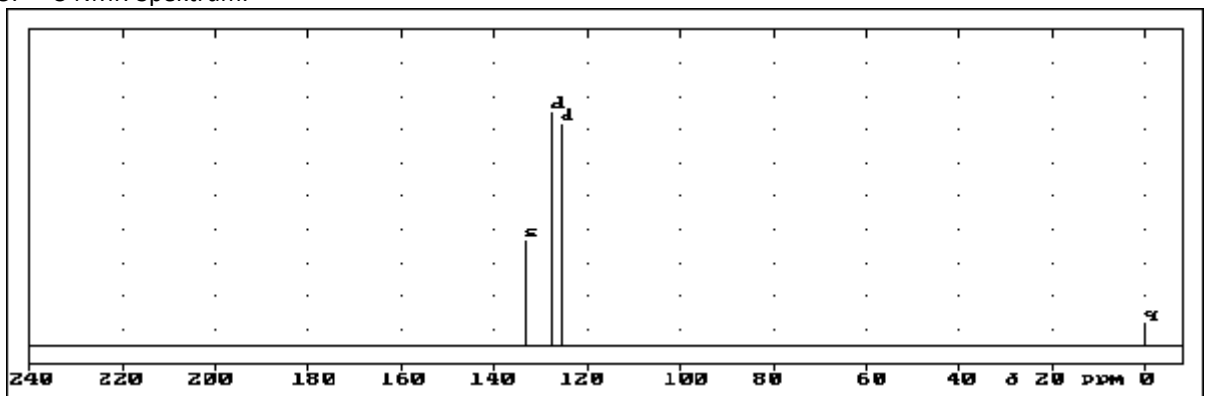
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



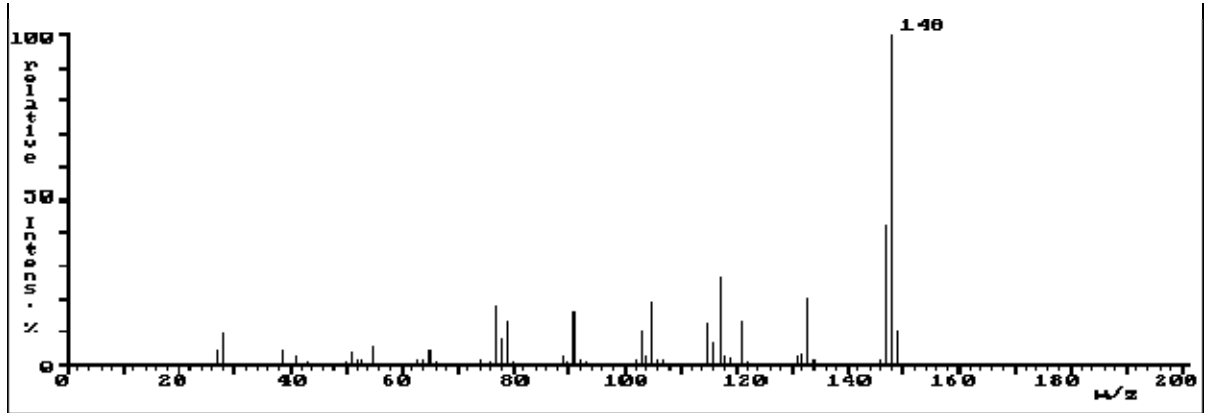
5. <sup>13</sup>C-NMR-Spektrum:



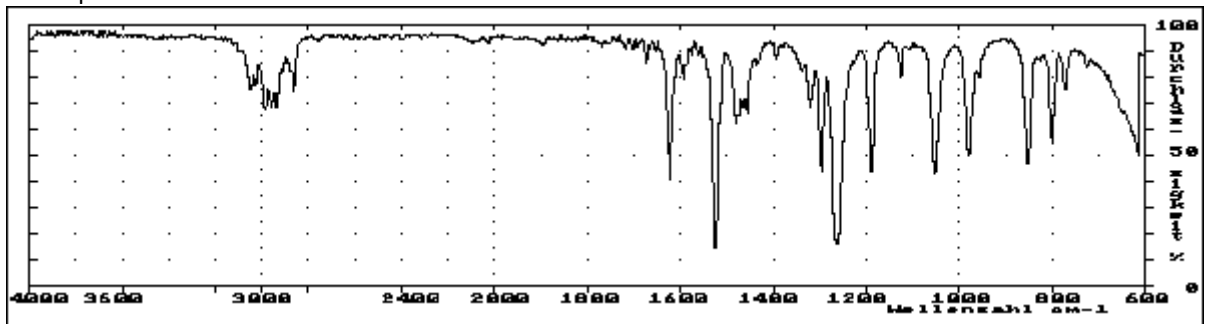
1. Quantitative Analyse:

C: 81.04%	H: 08.16%	O:				enthält: C, H, O
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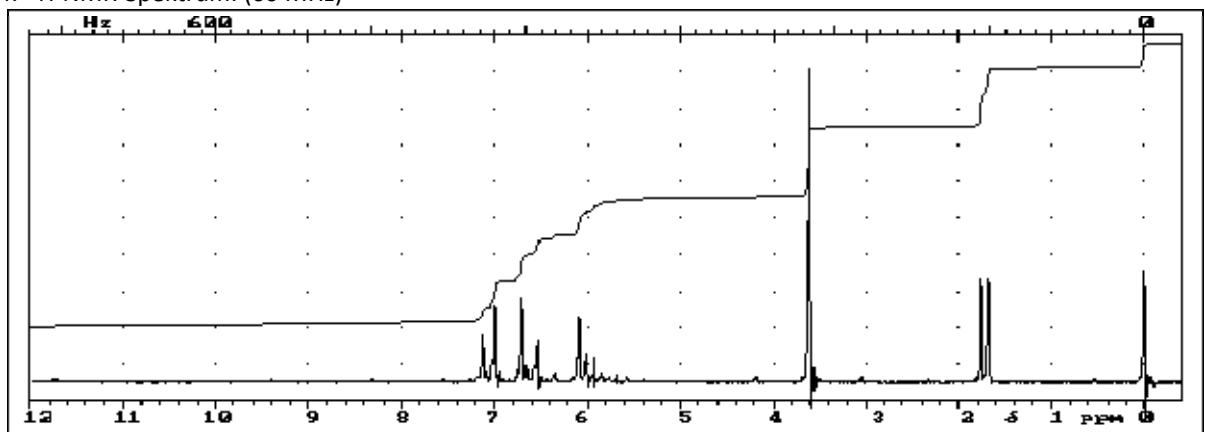
2. MS-Spektrum



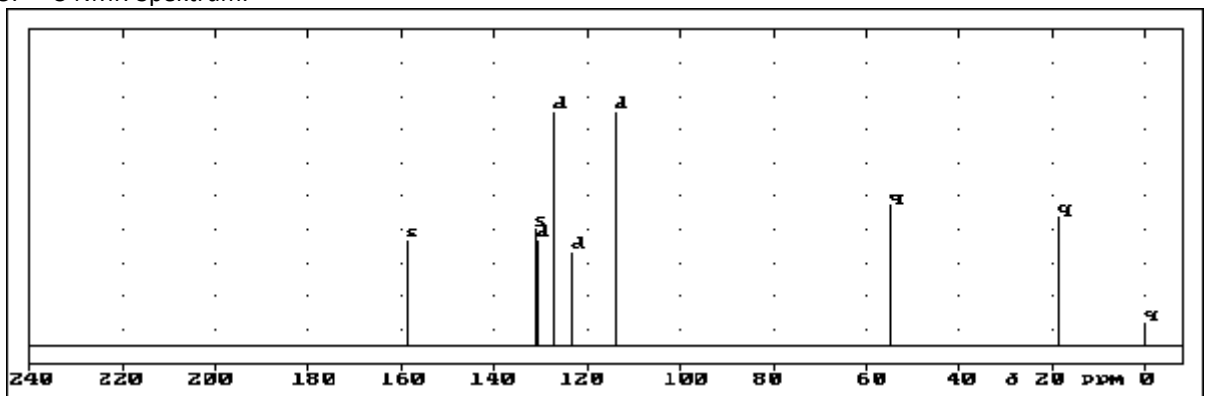
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



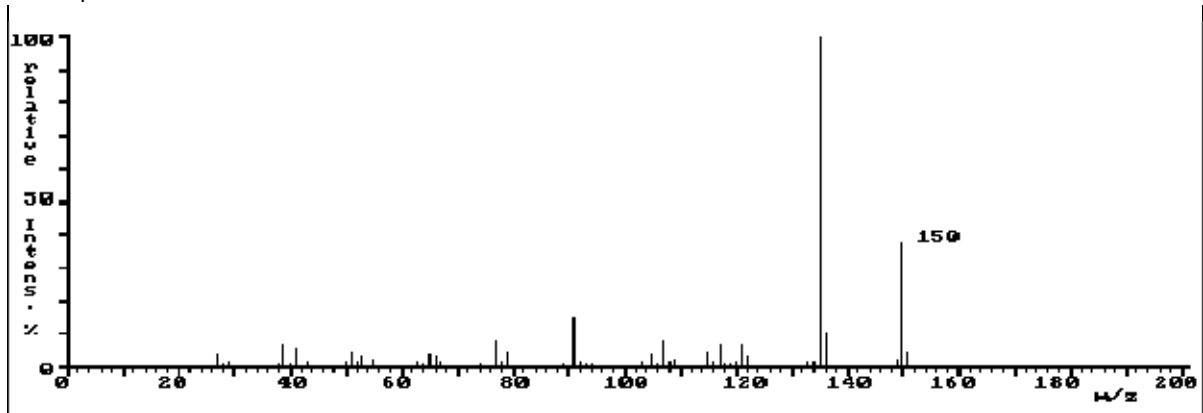
5. <sup>13</sup>C-NMR-Spektrum:



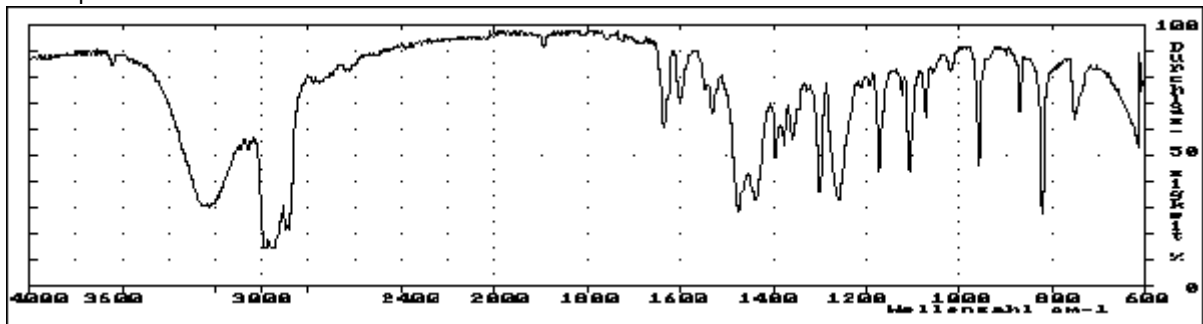
1. Quantitative Analyse:

C: 79.96%	H: 09.39%	O:				enthält: C, H, O
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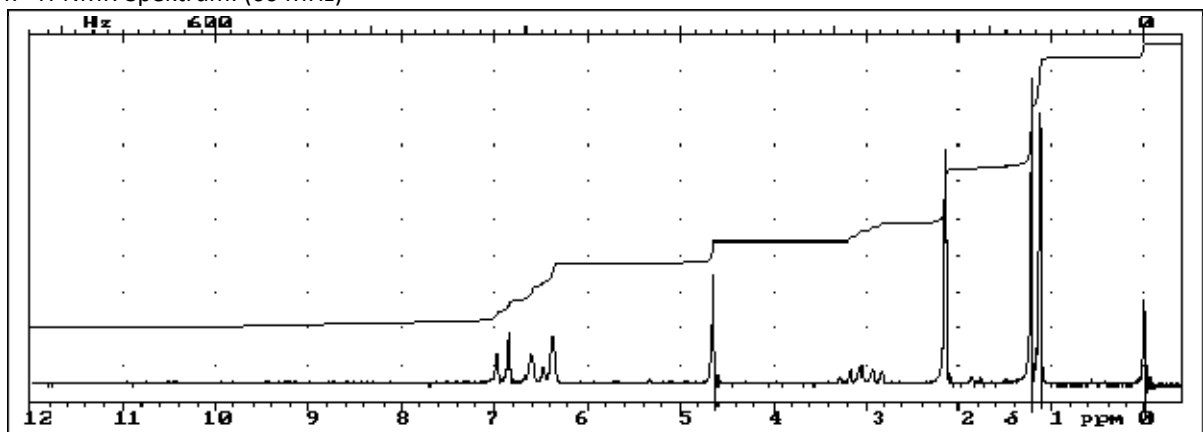
2. MS-Spektrum



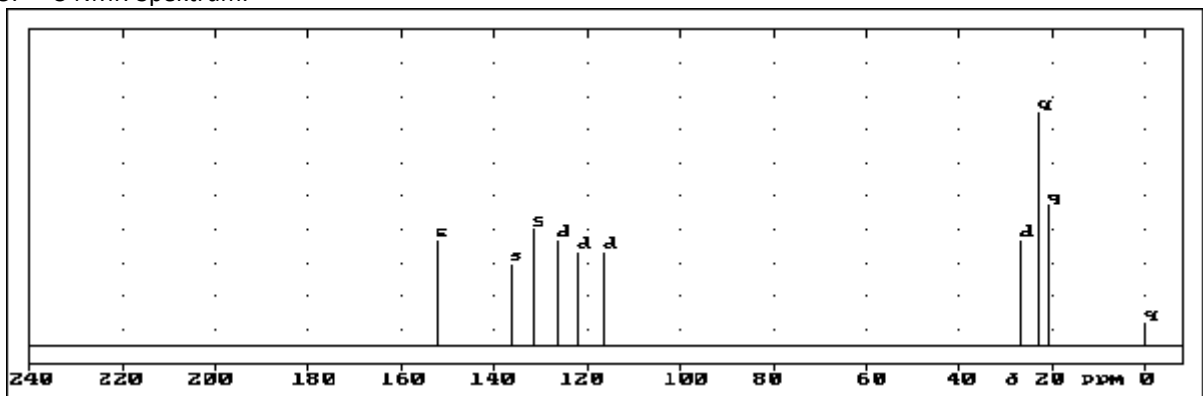
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



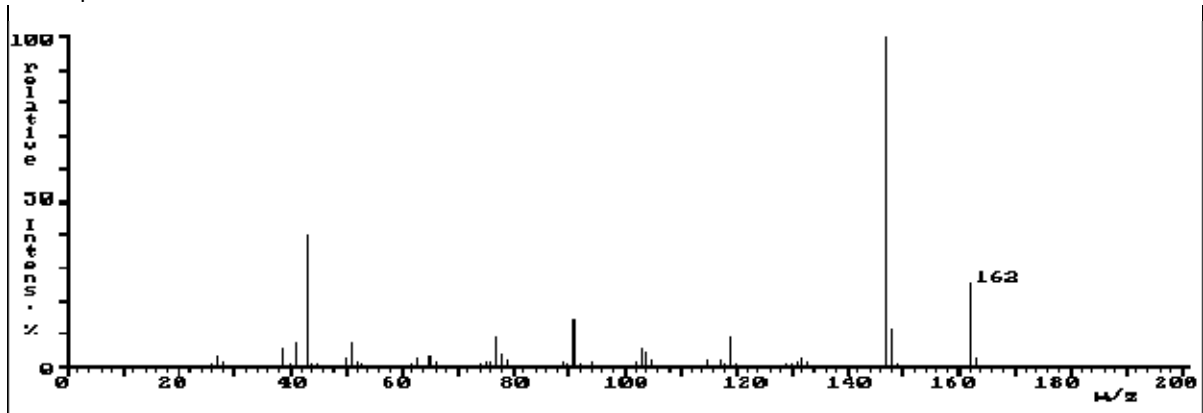
5. <sup>13</sup>C-NMR-Spektrum:



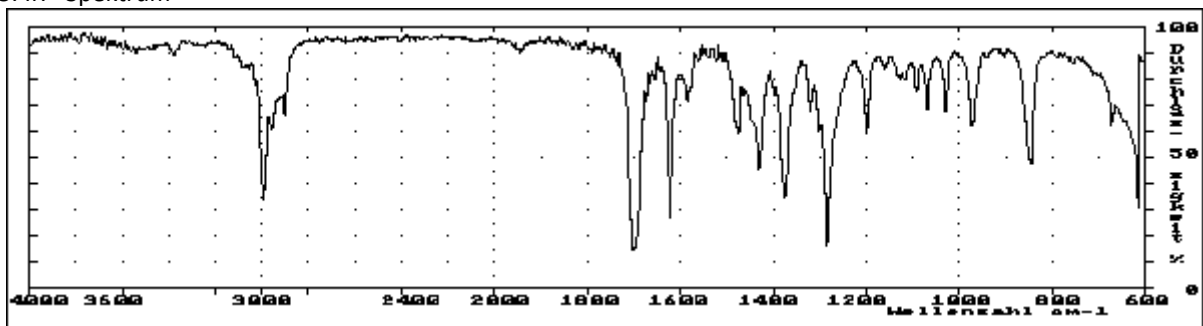
1. Quantitative Analyse:

C: 81.44%	H: 08.70%	O:				enthält: C, H, O
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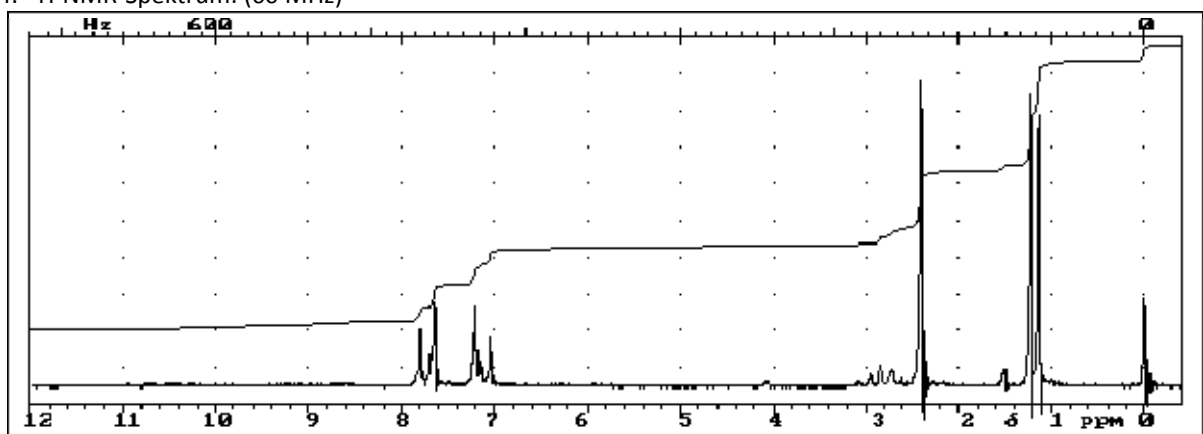
2. MS-Spektrum



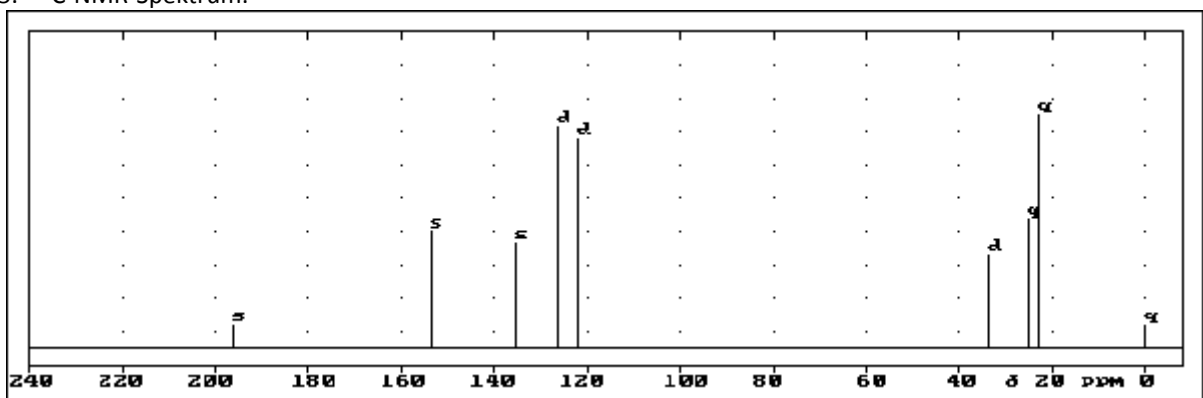
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

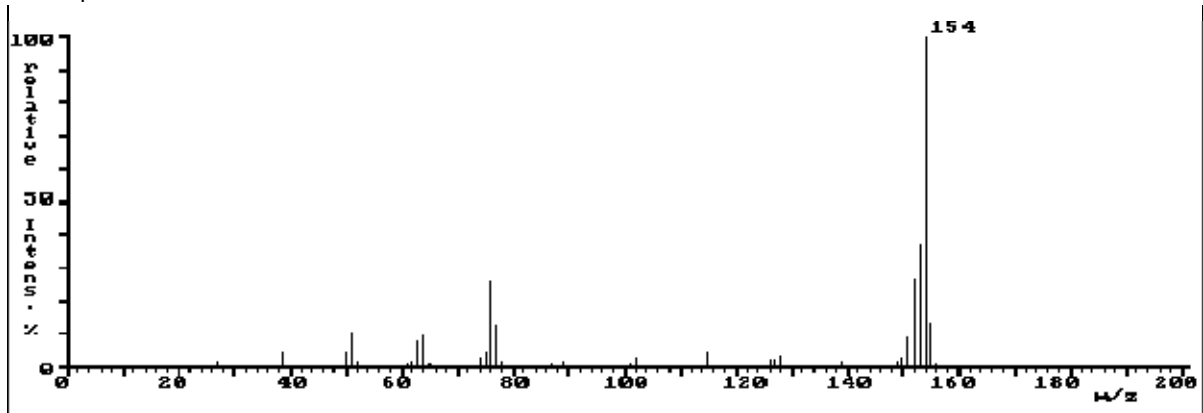




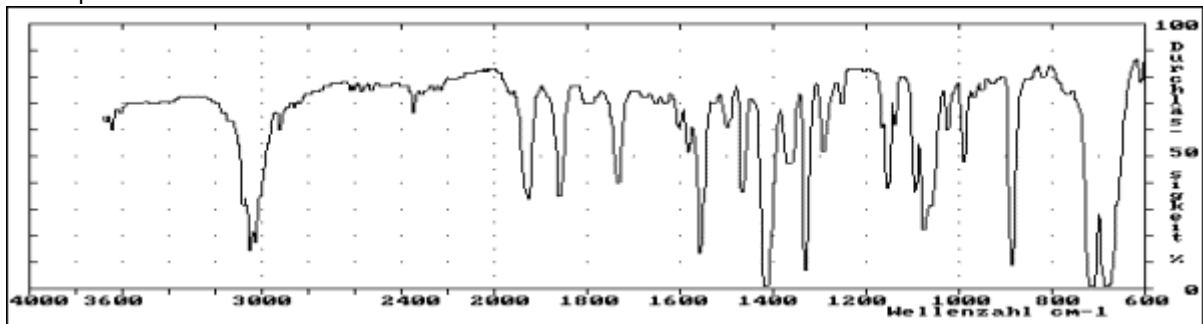
1. Quantitative Analyse:

C: 93.46%	H: 06.54 %	O:				enthält: C, H
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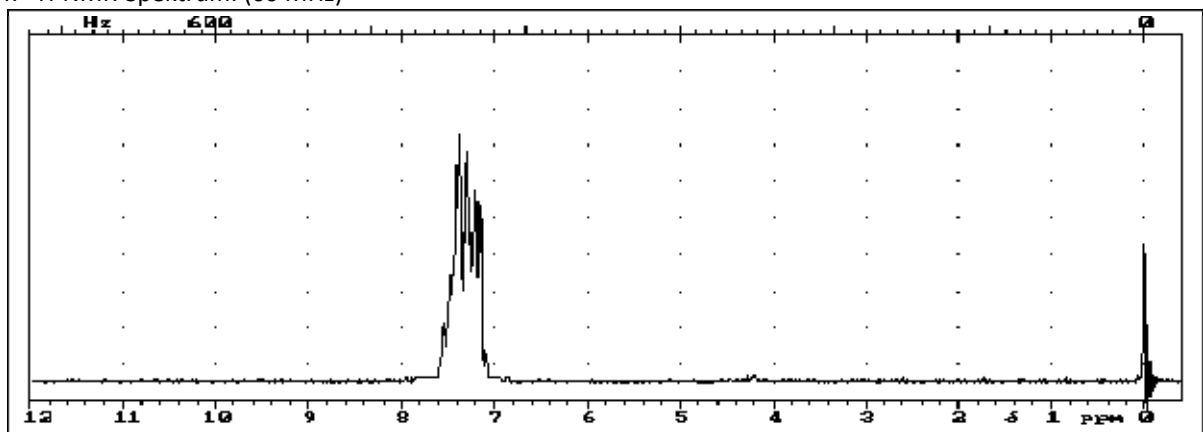
2. MS-Spektrum



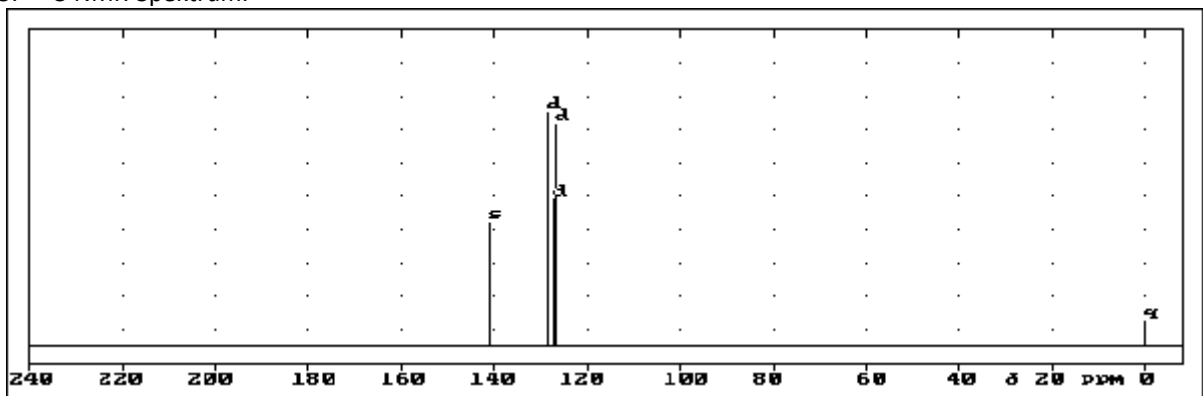
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



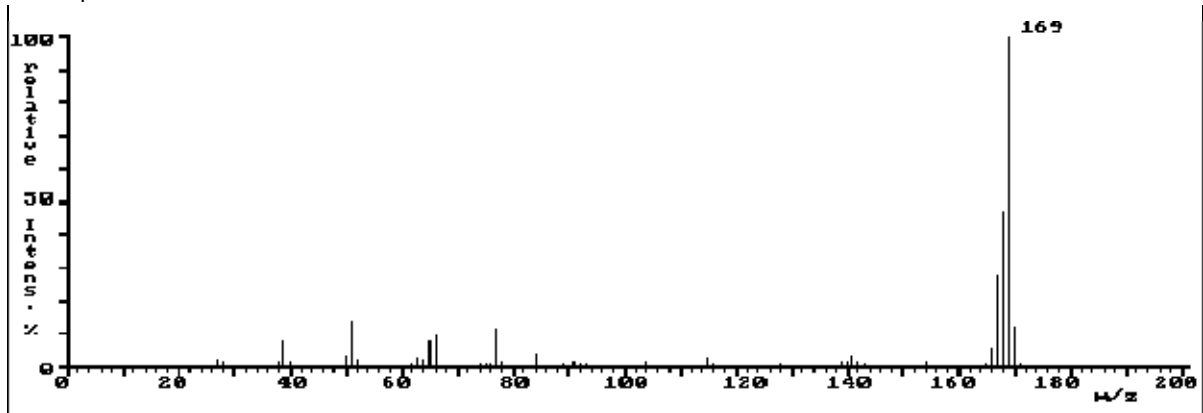
5. <sup>13</sup>C-NMR-Spektrum:



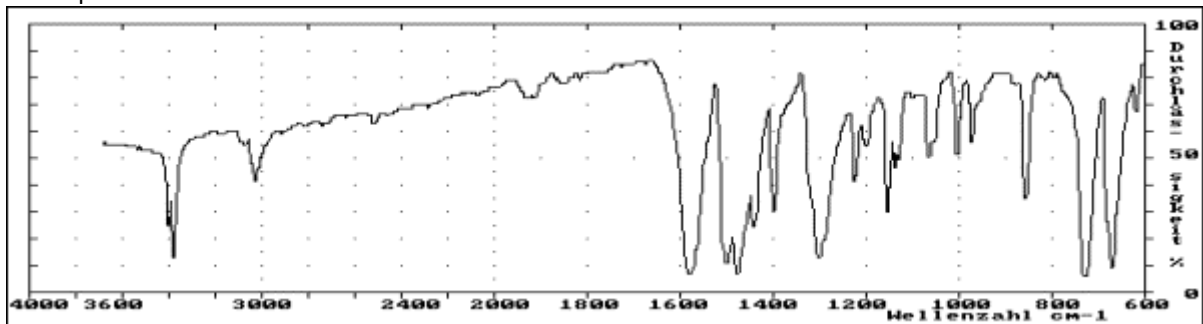
1. Quantitative Analyse:

C: 85.17%	H: 06.55 %	O:				enthält: C, H, N
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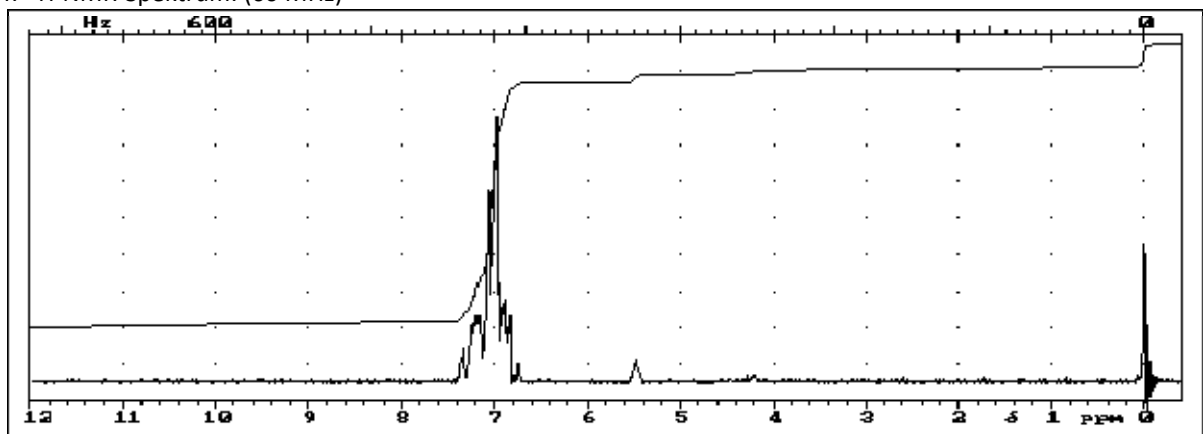
2. MS-Spektrum



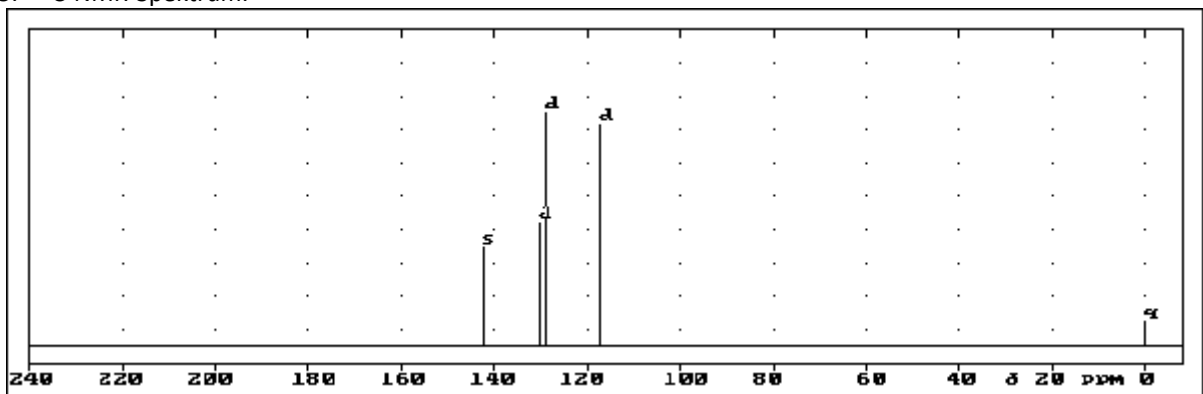
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



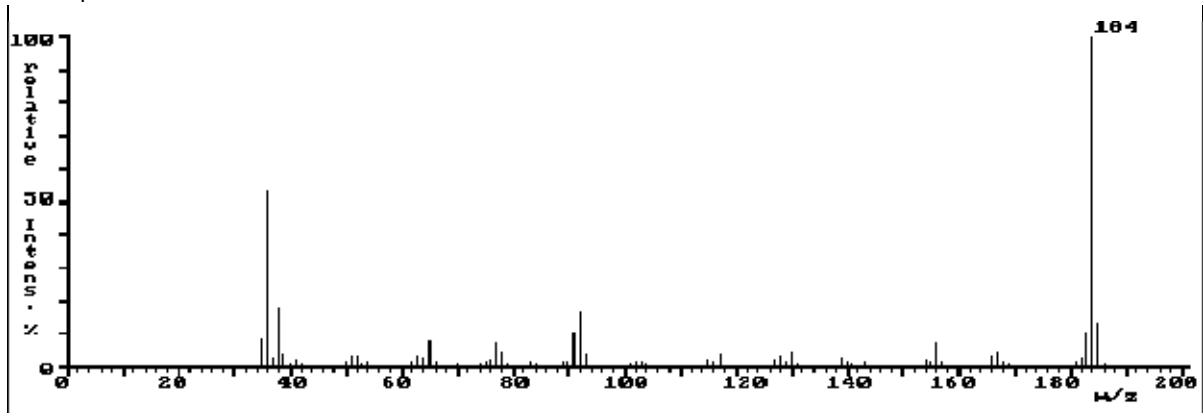
5. <sup>13</sup>C-NMR-Spektrum:



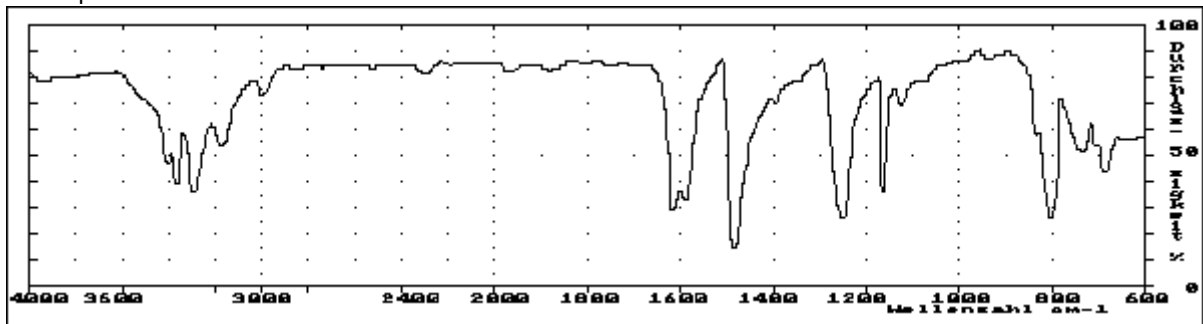
1. Quantitative Analyse:

C: 77.93%	H: 06.52 %	O:				enthält: C, H, N
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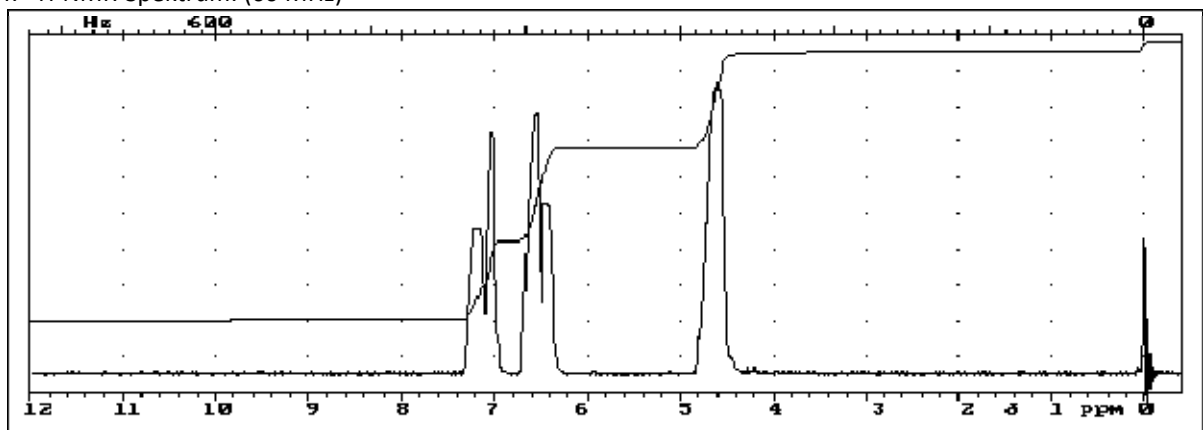
2. MS-Spektrum



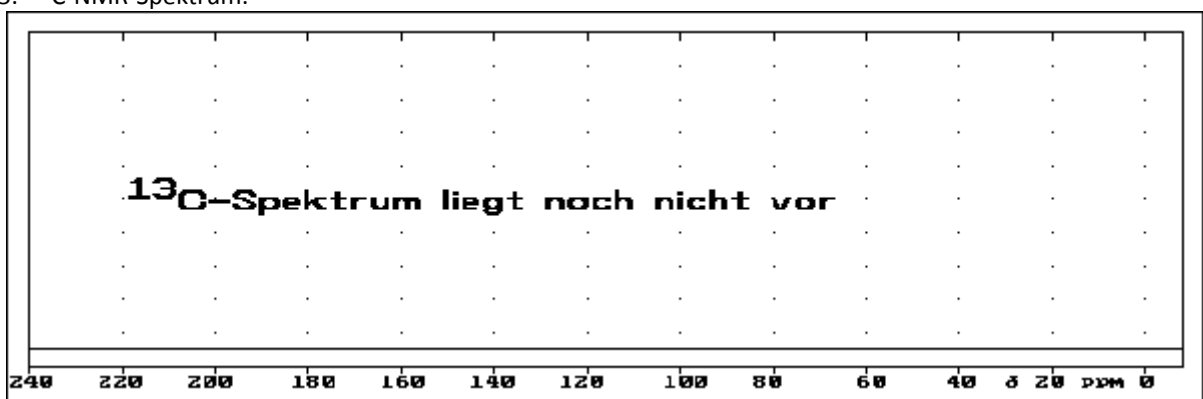
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



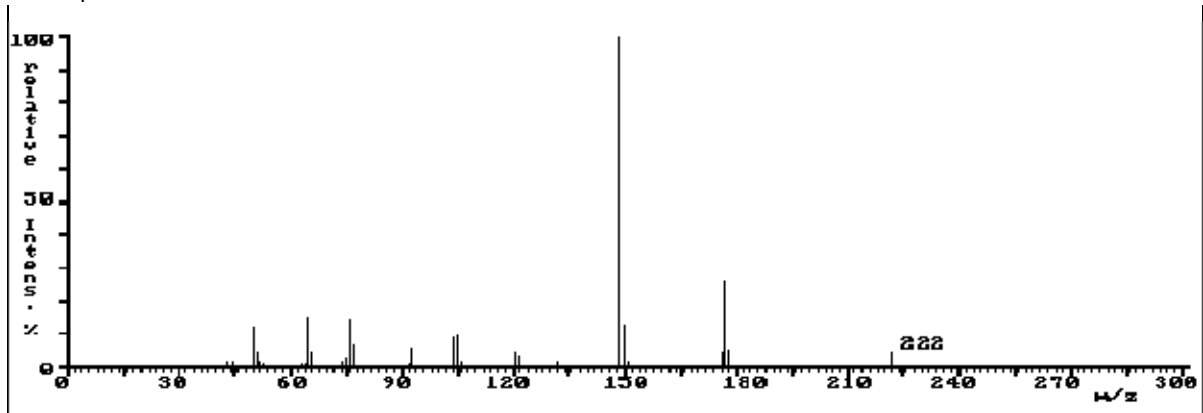
5. <sup>13</sup>C-NMR-Spektrum:



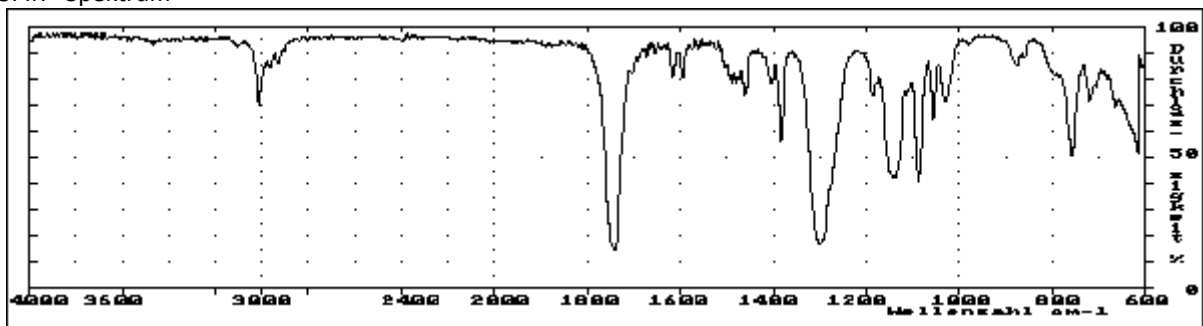
1. Quantitative Analyse:

C: 64.85%	H: 06.35 %	O:				enthält: C, H, O
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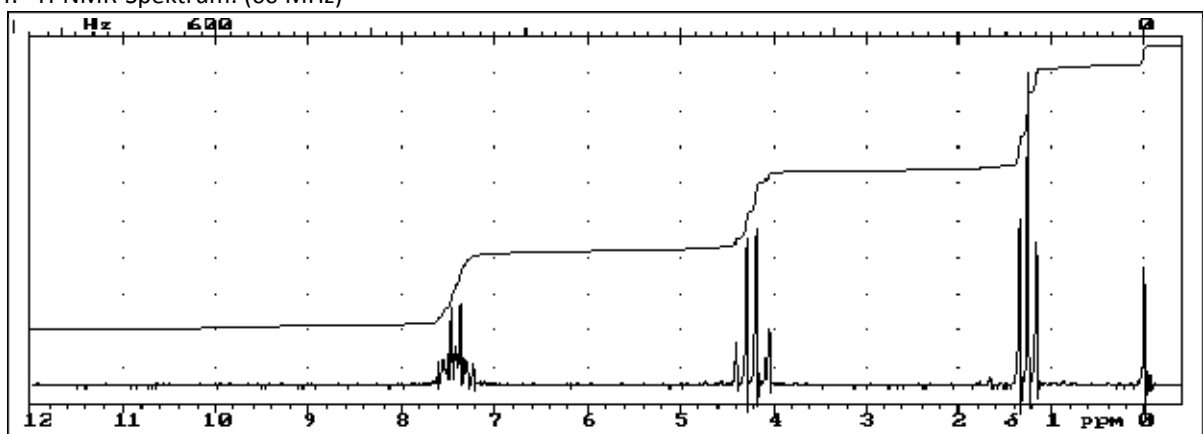
2. MS-Spektrum



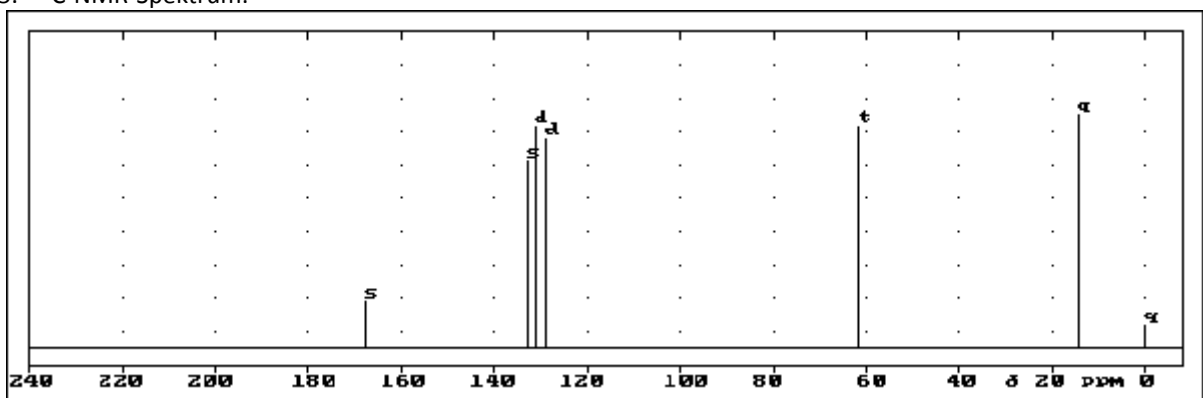
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



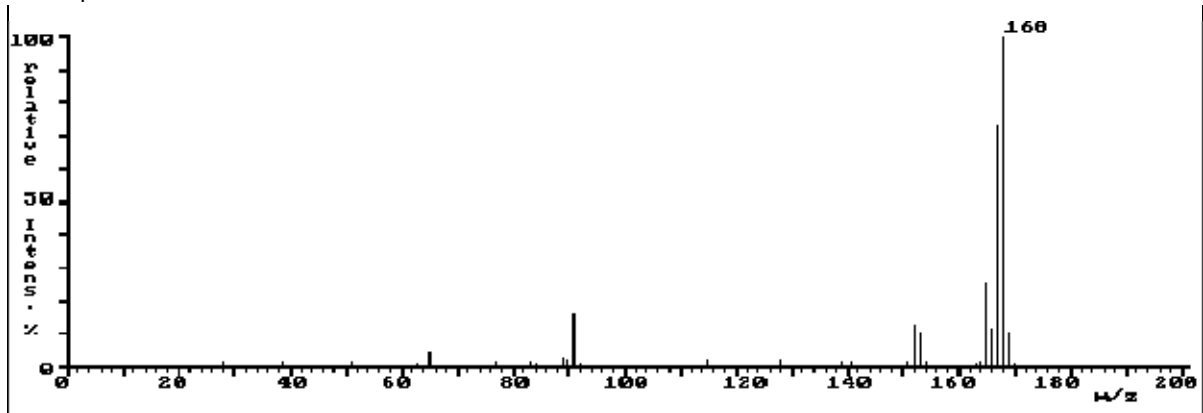
5. <sup>13</sup>C-NMR-Spektrum:



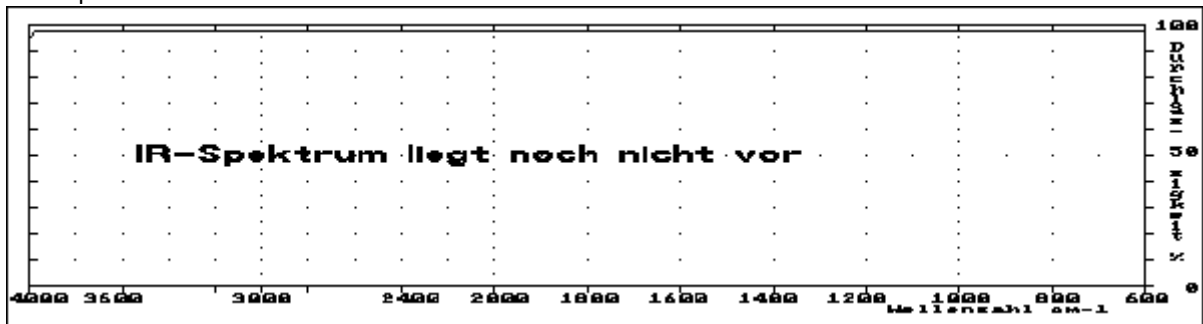
1. Quantitative Analyse:

C: 92.81%	H: 07.19%	O:				enthält: C, H
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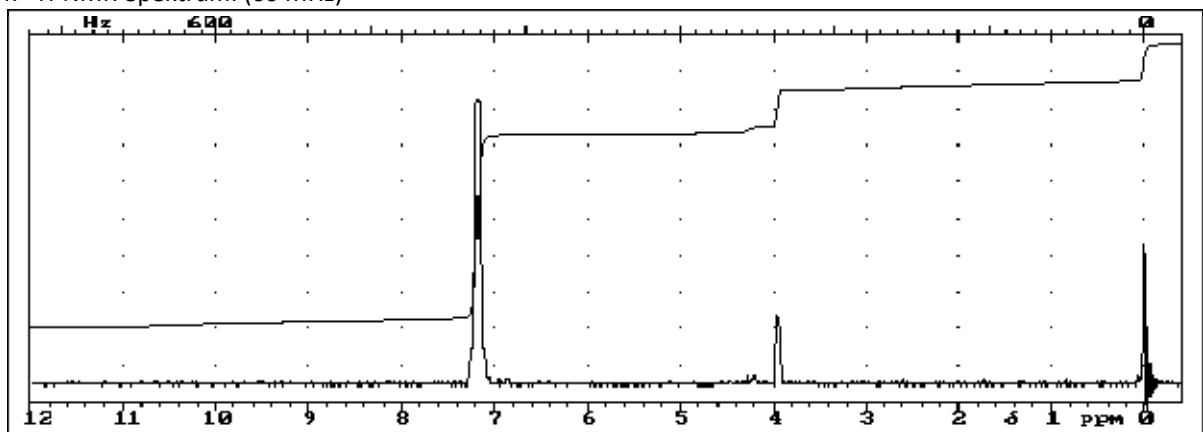
2. MS-Spektrum



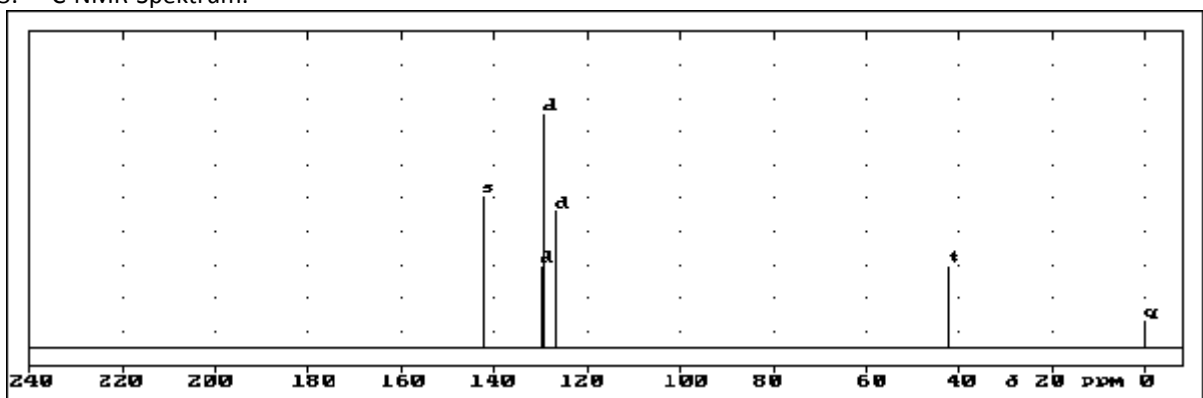
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



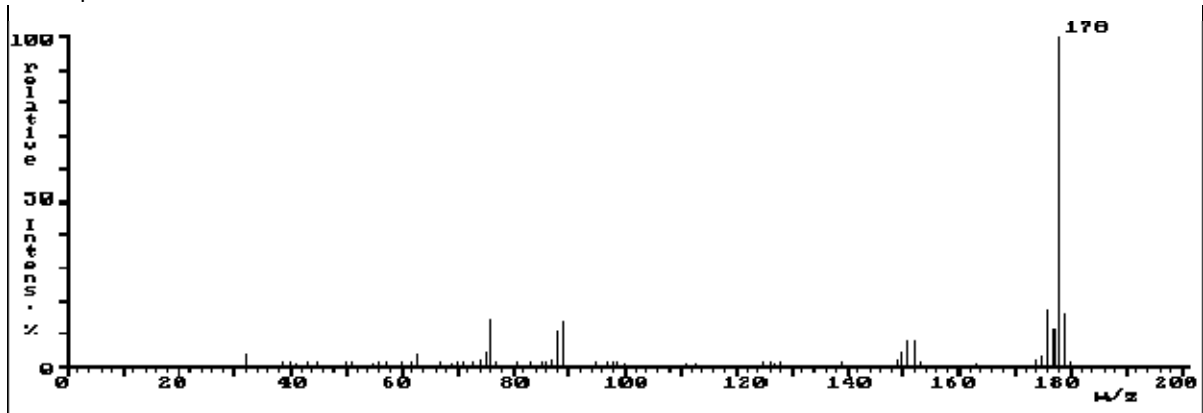
5. <sup>13</sup>C-NMR-Spektrum:



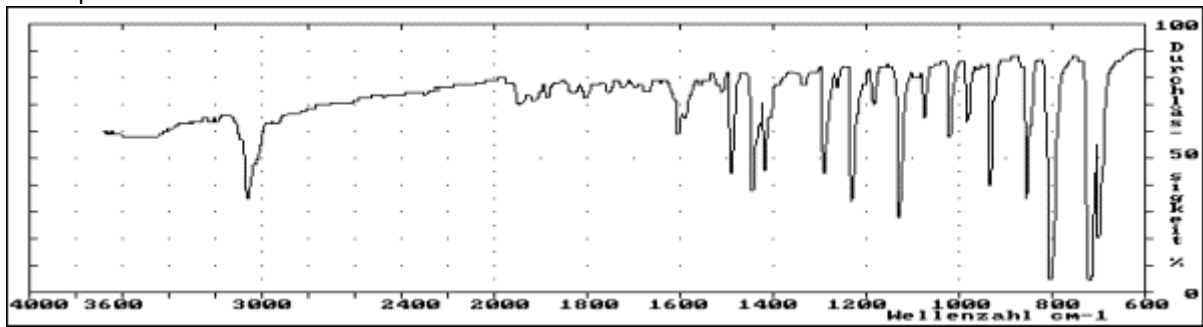
1. Quantitative Analyse:

C: 94.38 %	H: 05.62 %	O:				enthält: C, H
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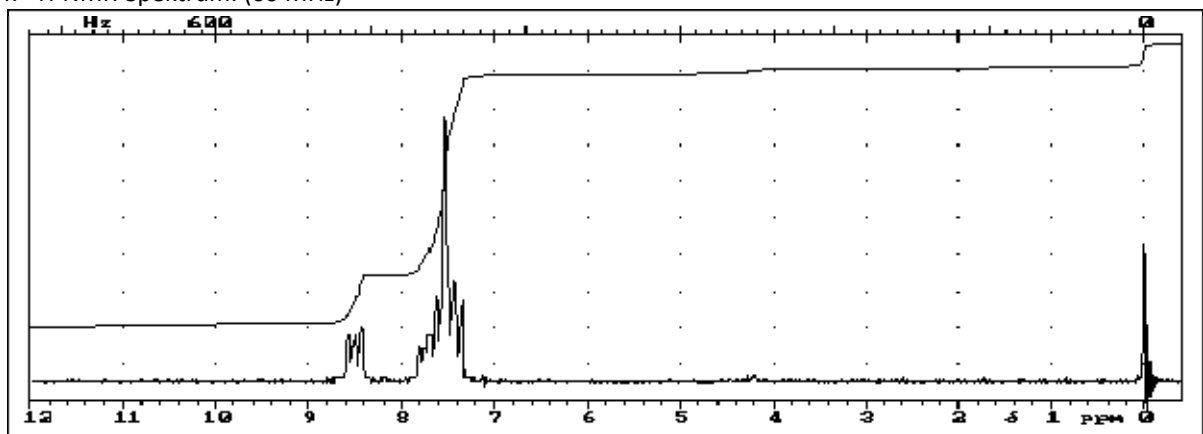
2. MS-Spektrum



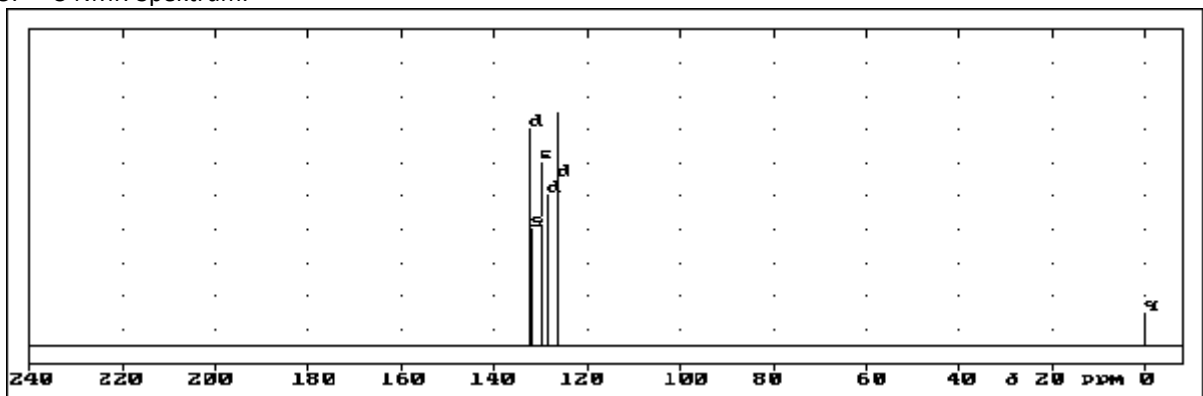
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



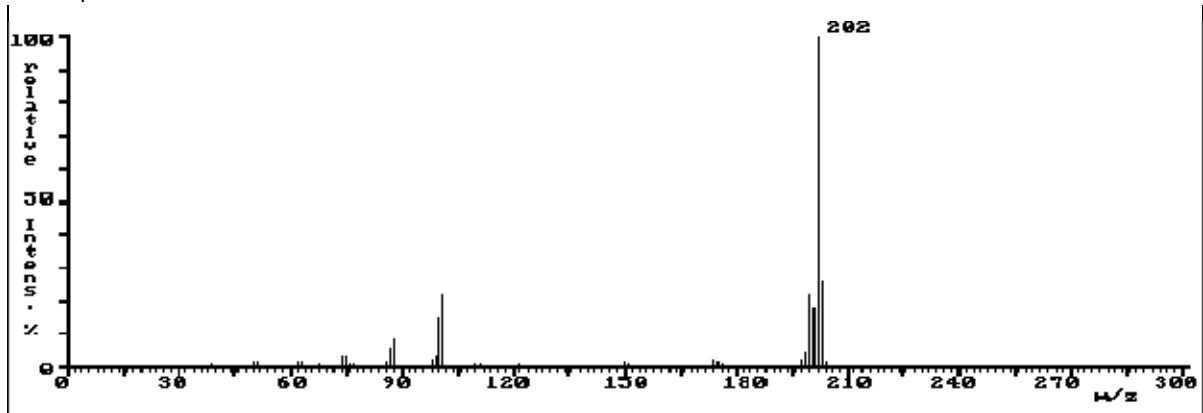
5. <sup>13</sup>C-NMR-Spektrum:



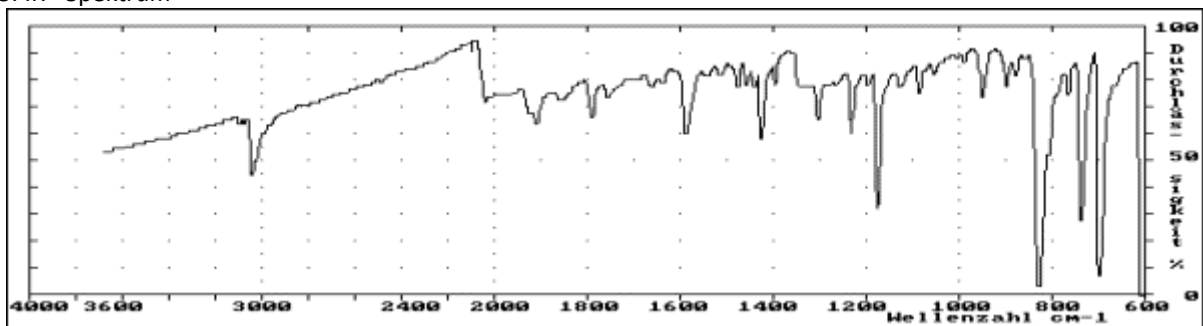
1. Quantitative Analyse:

C: 95.02 %	H: 04.98 %	O:				enthält: C, H
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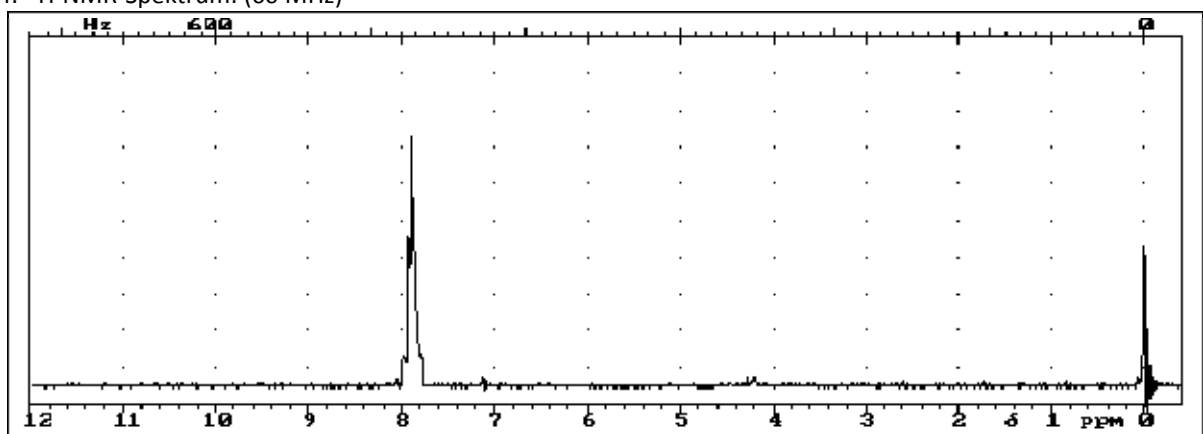
2. MS-Spektrum



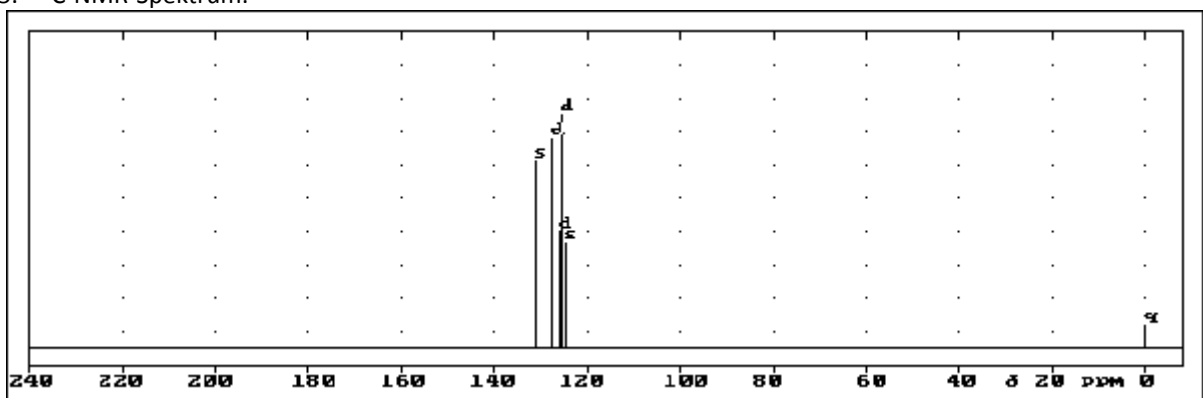
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



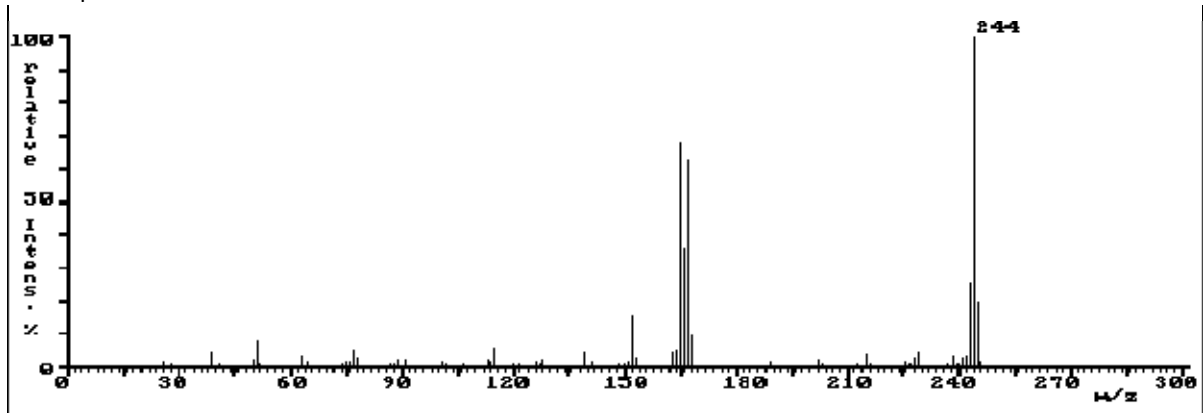
5. <sup>13</sup>C-NMR-Spektrum:



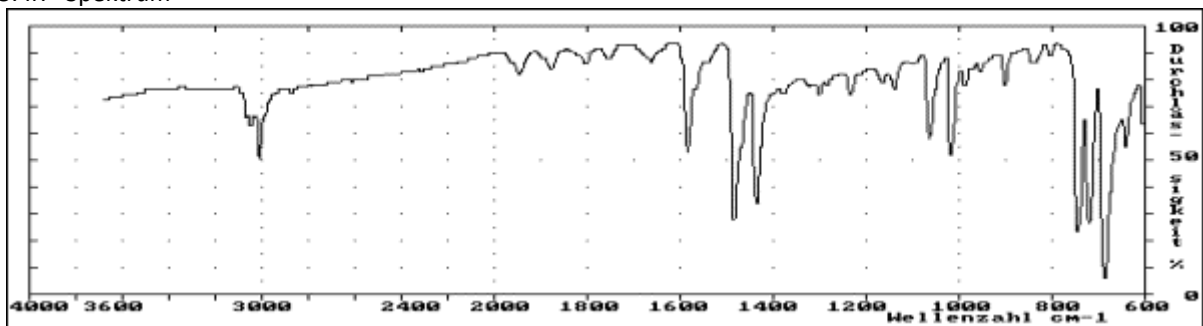
1. Quantitative Analyse:

C: 93.40%	H: 06.60 %	O:				enthält: C, H
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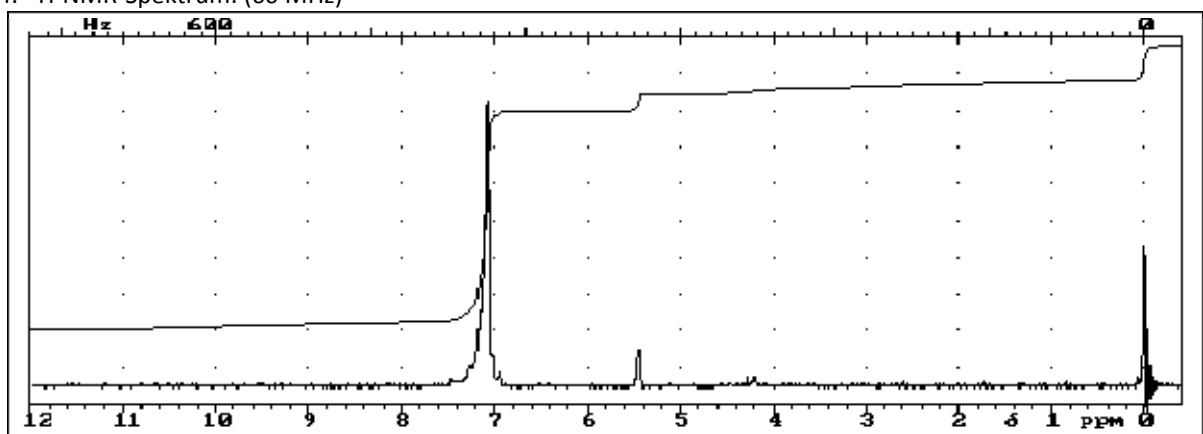
2. MS-Spektrum



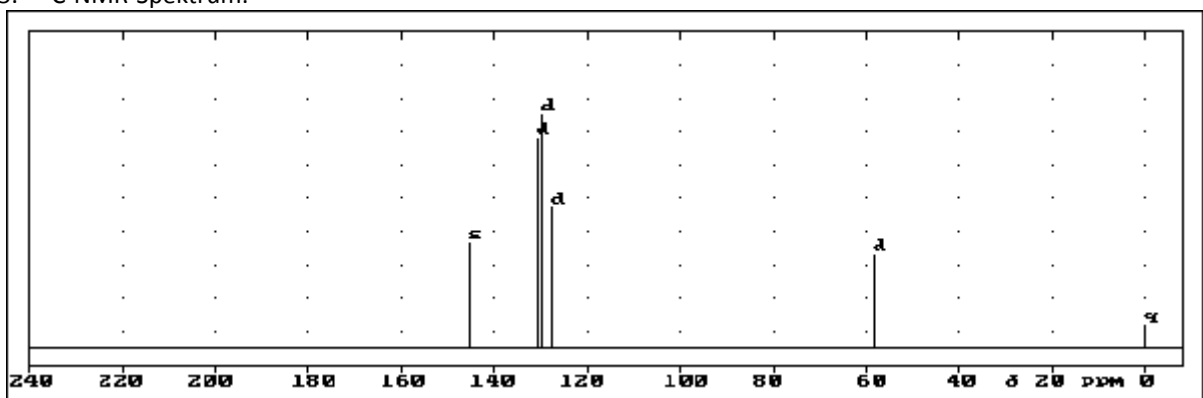
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

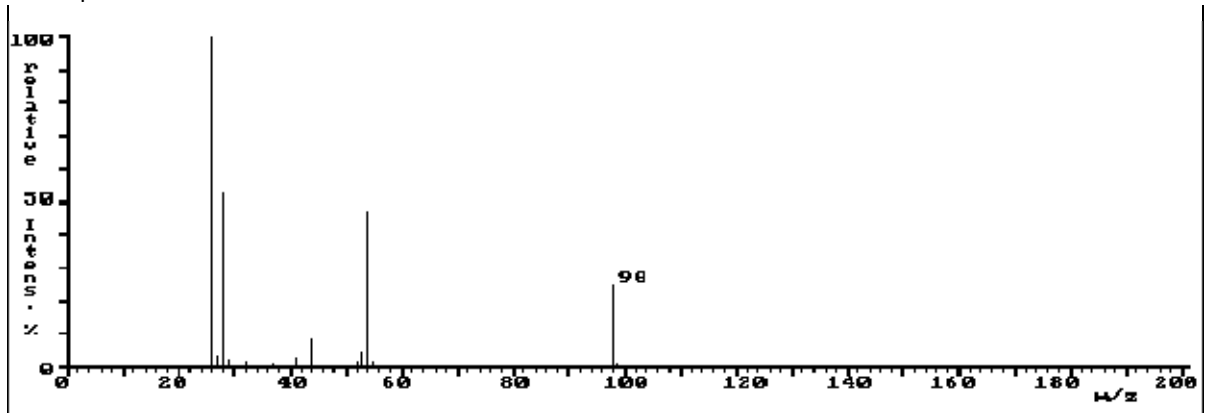




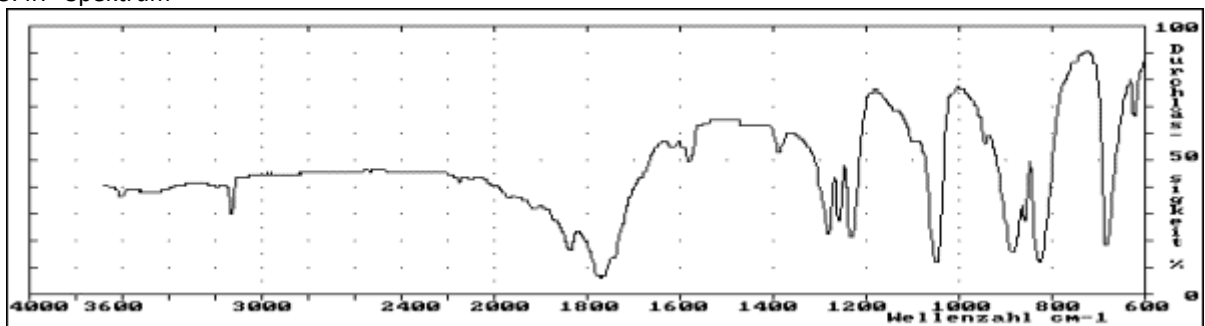
1. Quantitative Analyse:

C: 49.00%	H: 02.06 %	O:				enthält: C, H, O
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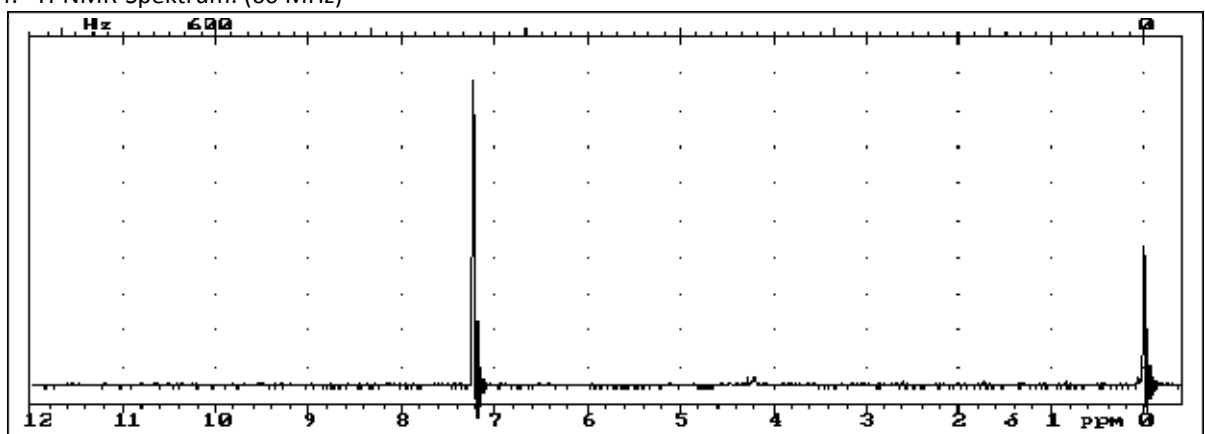
2. MS-Spektrum



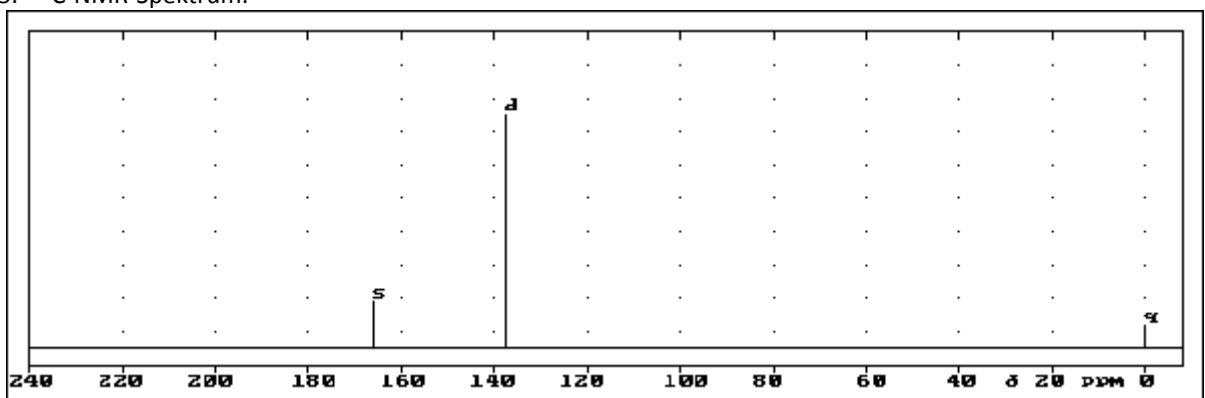
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



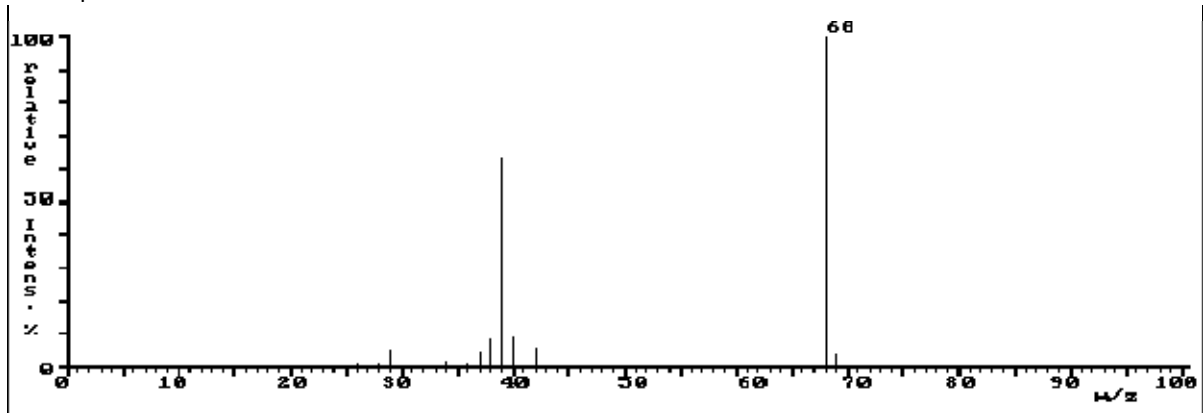
5. <sup>13</sup>C-NMR-Spektrum:



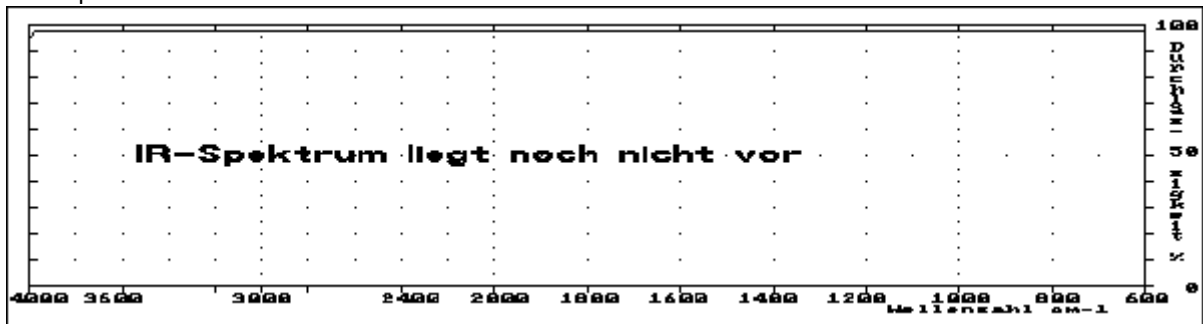
1. Quantitative Analyse:

C: 70.58 %	H: 05.92 %	O:				enthält: C, H, O
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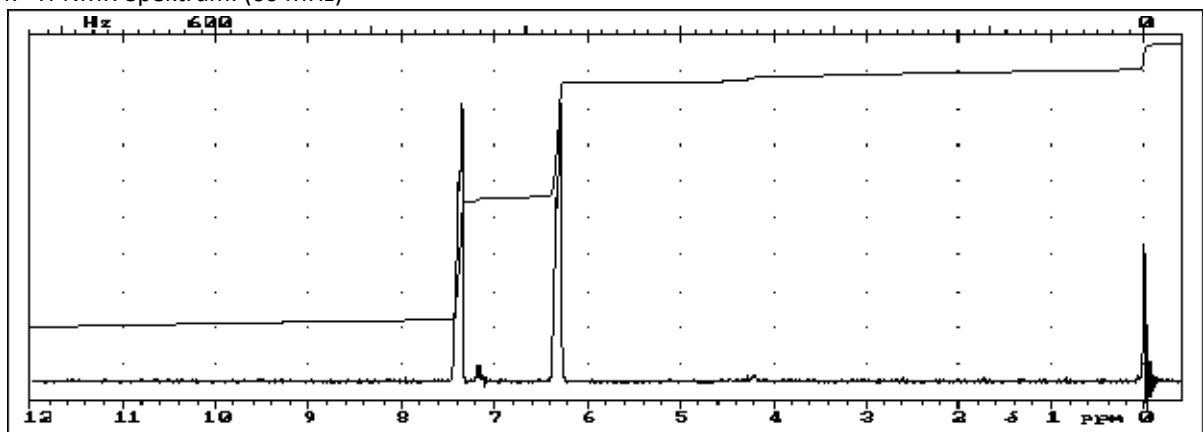
2. MS-Spektrum



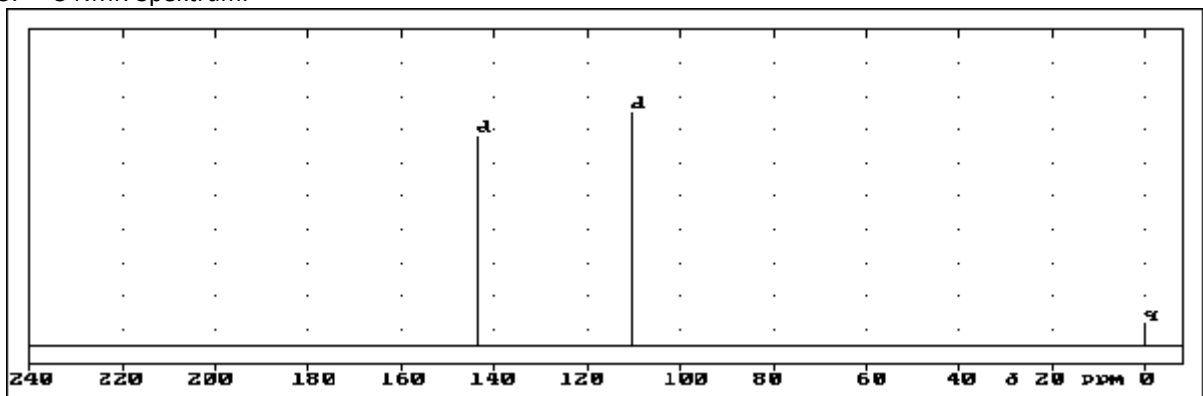
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



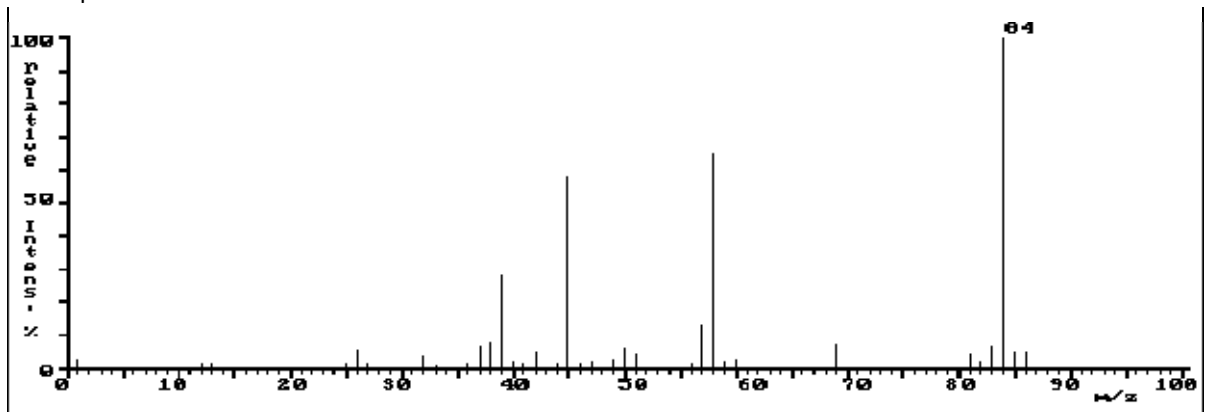
5. <sup>13</sup>C-NMR-Spektrum:



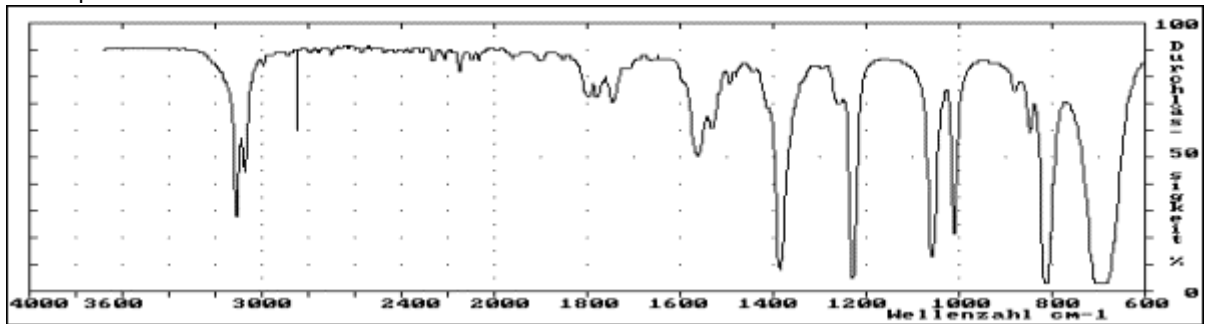
1. Quantitative Analyse:

C: 57.10 %	H: 04.79 %	O:				enthält: C, H, S
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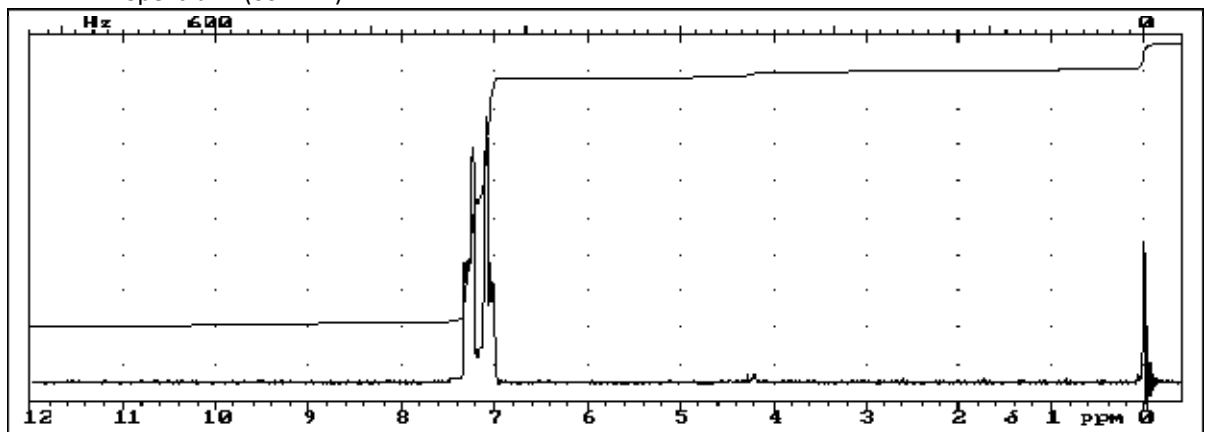
2. MS-Spektrum



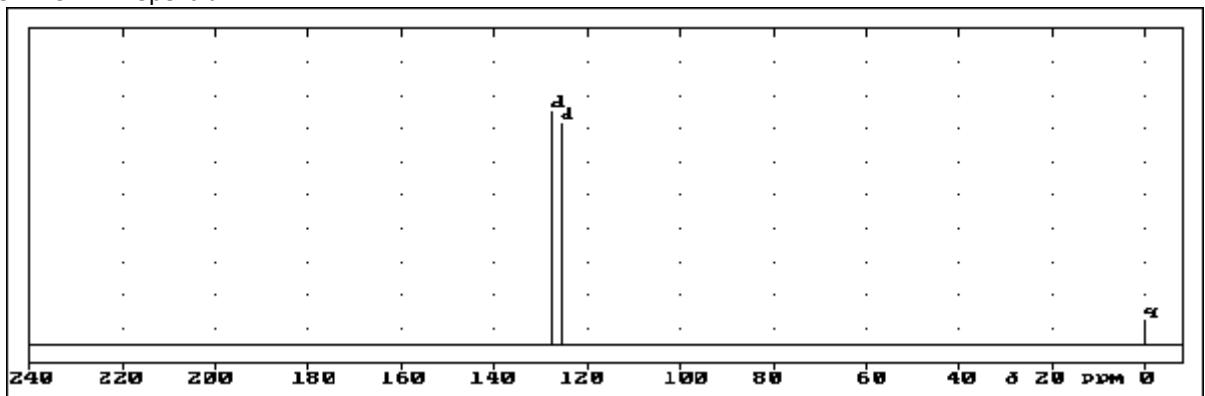
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



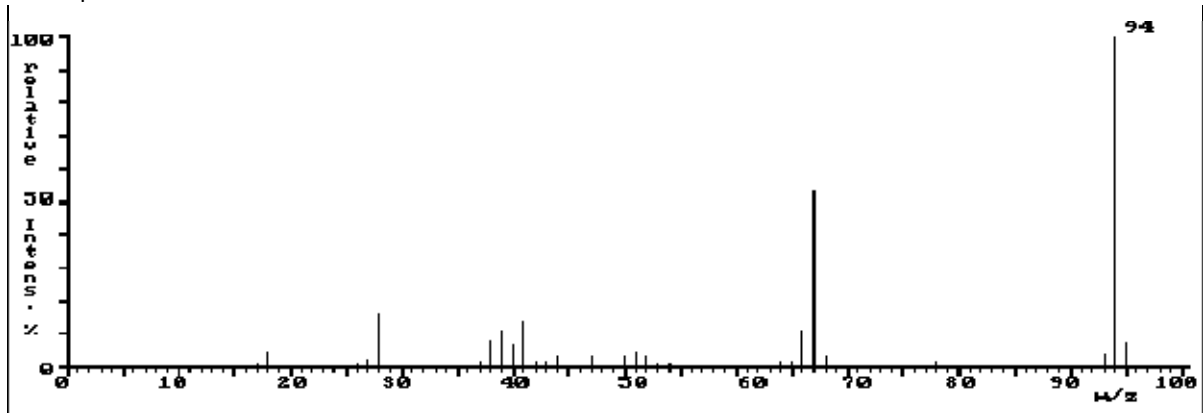
5. <sup>13</sup>C-NMR-Spektrum:



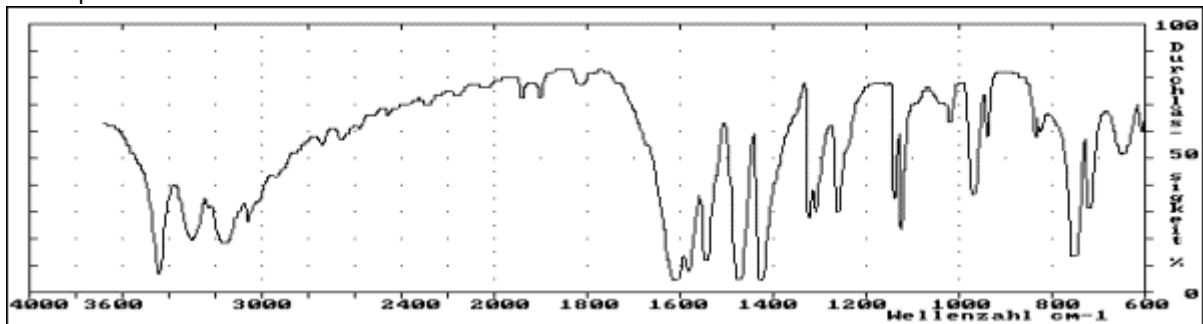
1. Quantitative Analyse:

C: 63.81 %	H: 06.43 %	O:				enthält: C, H, N
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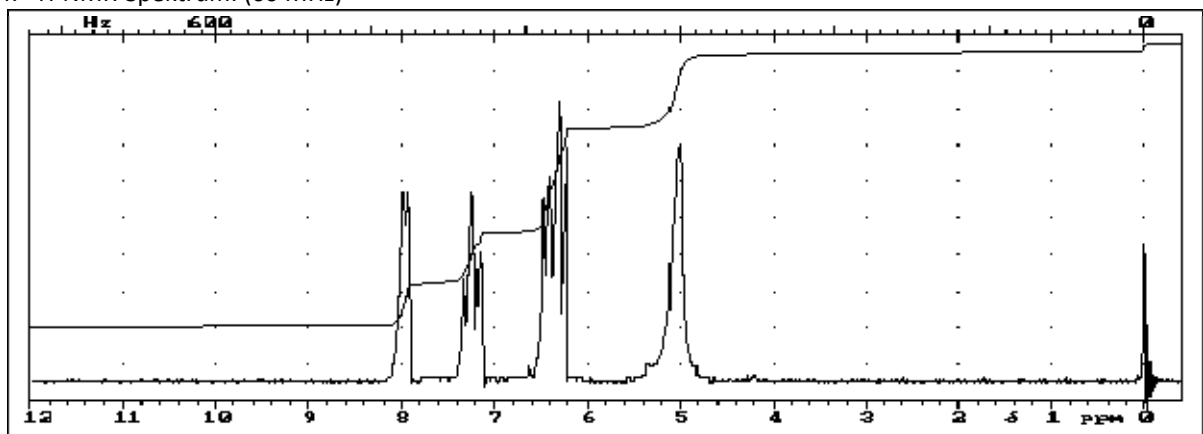
2. MS-Spektrum



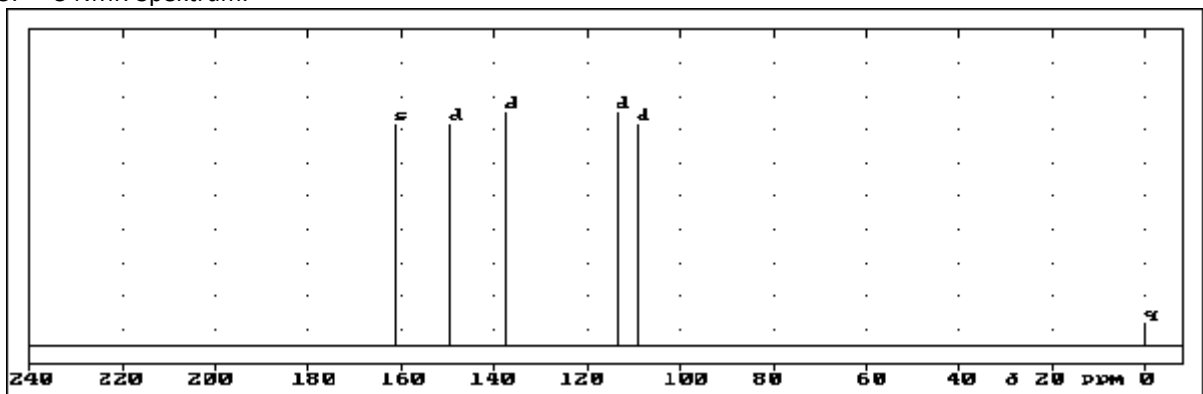
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



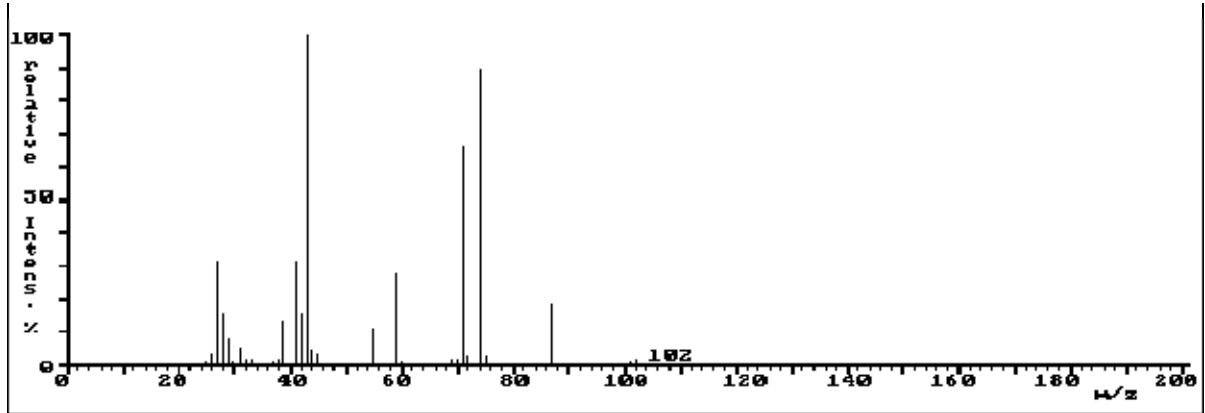
5. <sup>13</sup>C-NMR-Spektrum:



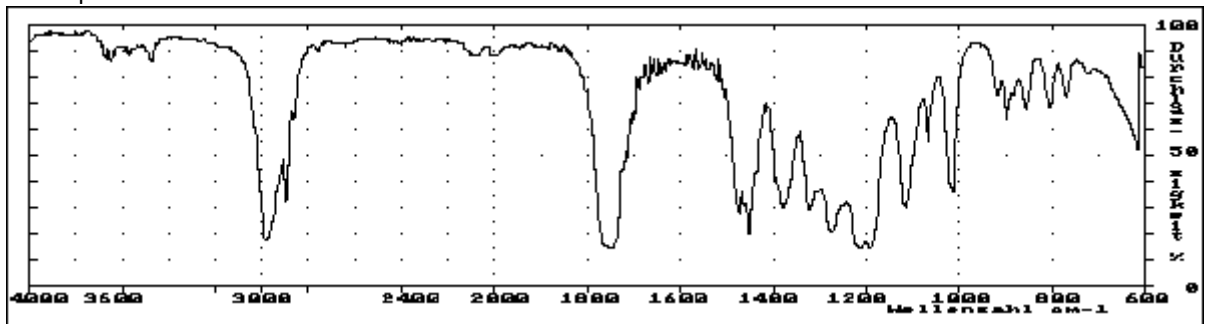
1. Quantitative Analyse:

C: 58.80 %	H: 09.87 %	O:				enthält: C, H, O
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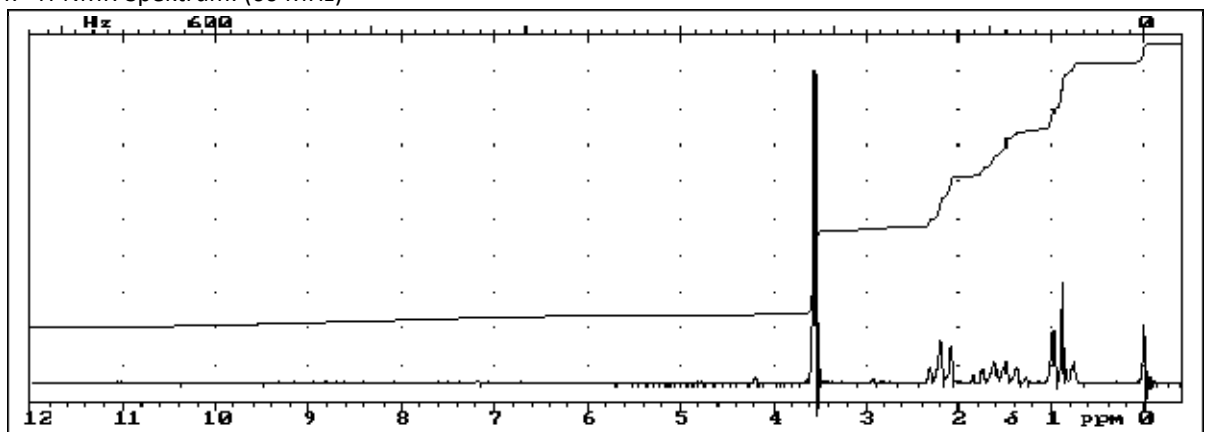
2. MS-Spektrum



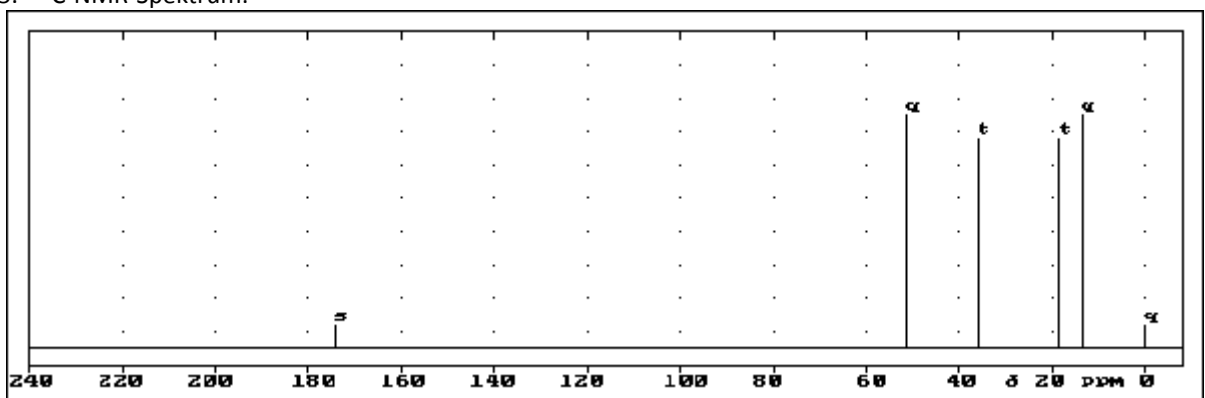
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



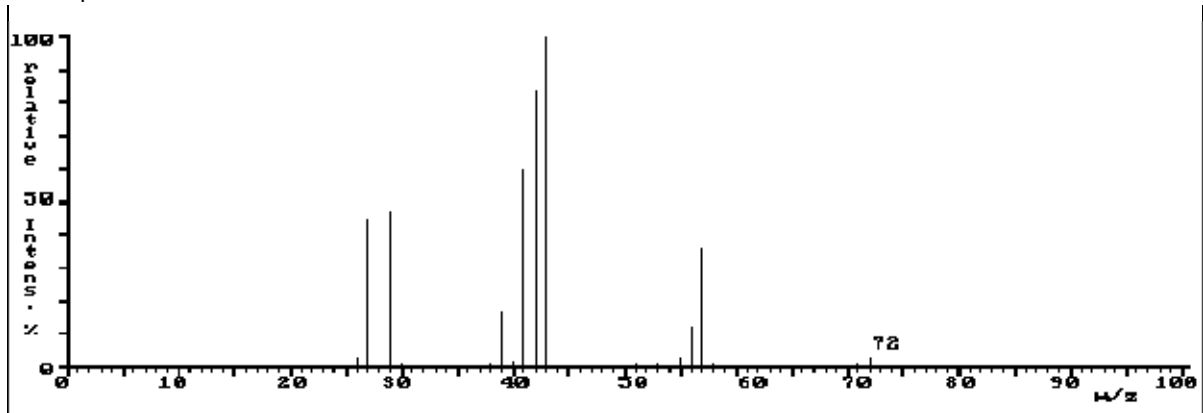
5. <sup>13</sup>C-NMR-Spektrum:



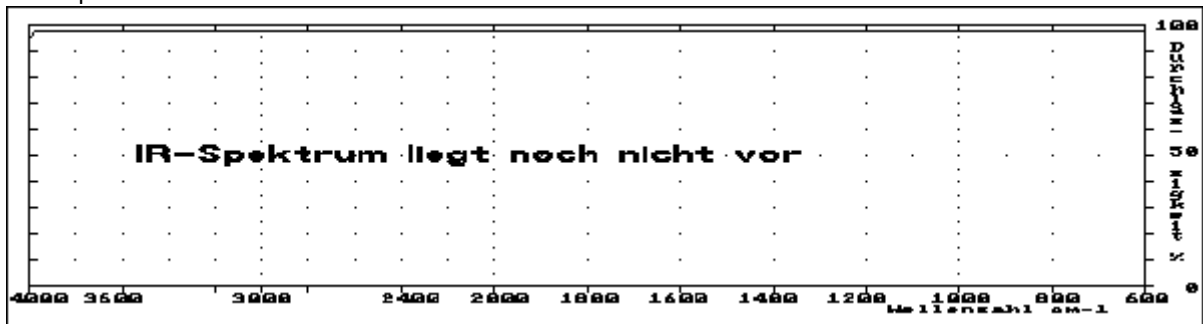
1. Quantitative Analyse:

C: 83.24	H: 16.76 %	O:				enthält: C, H
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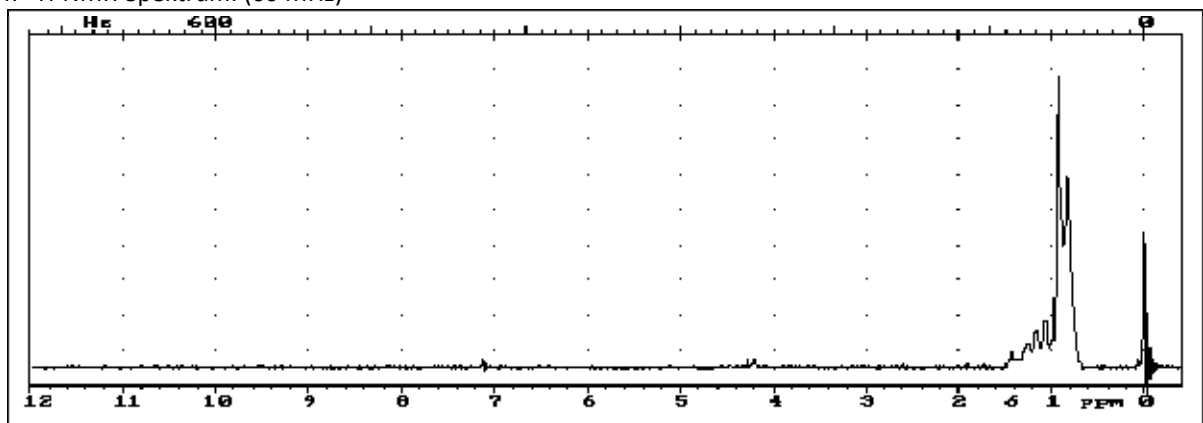
2. MS-Spektrum



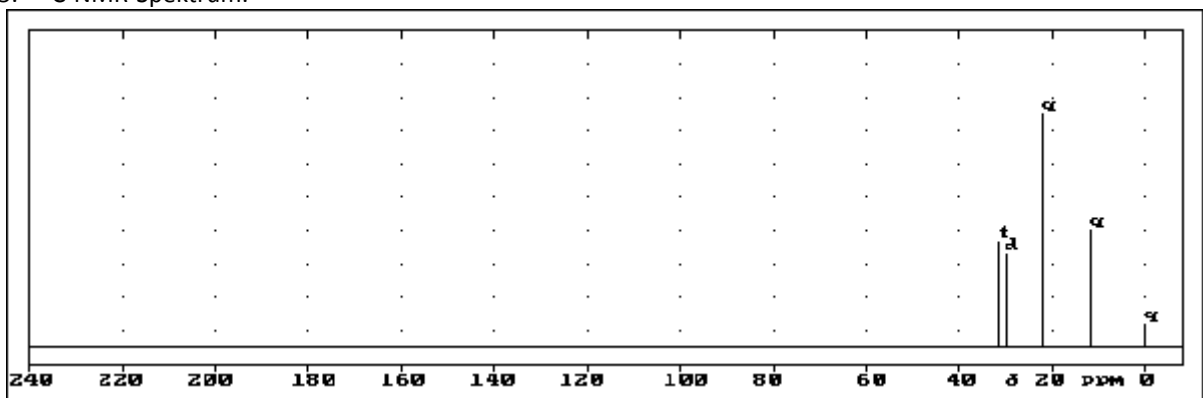
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



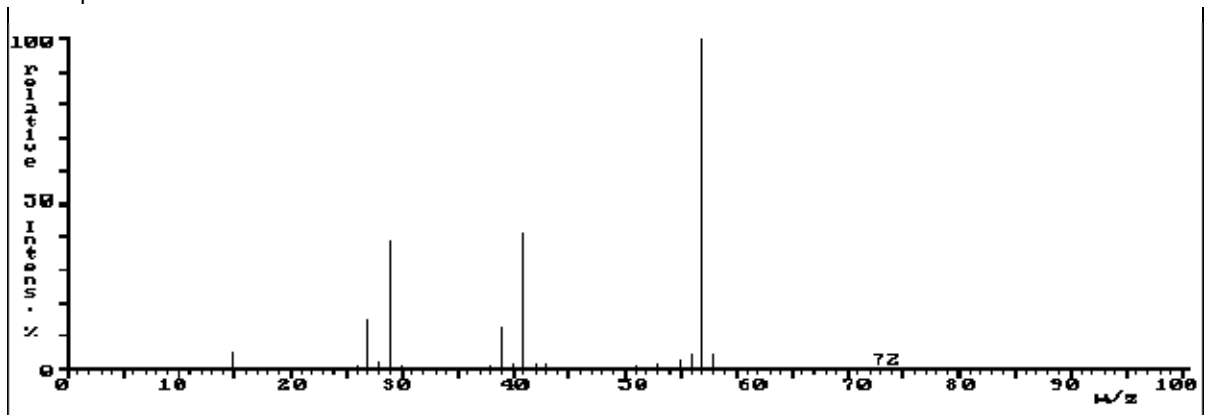
5. <sup>13</sup>C-NMR-Spektrum:



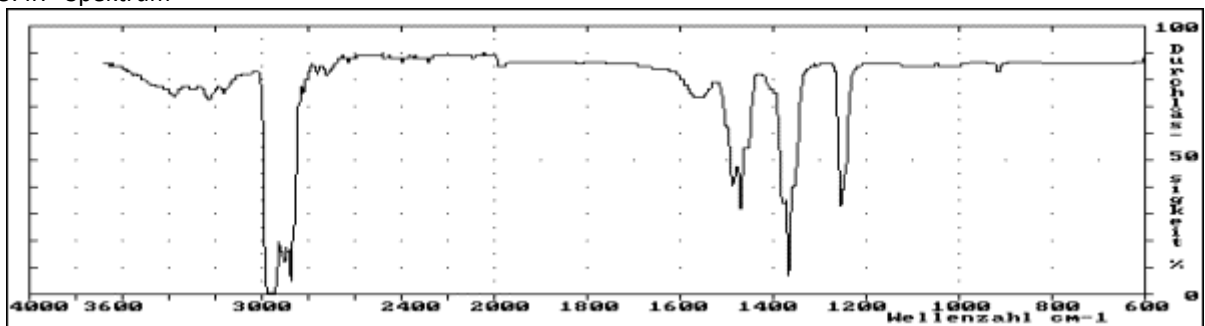
1. Quantitative Analyse:

C: 83.24 %	H: 16.76 %	O:				enthält: C, H
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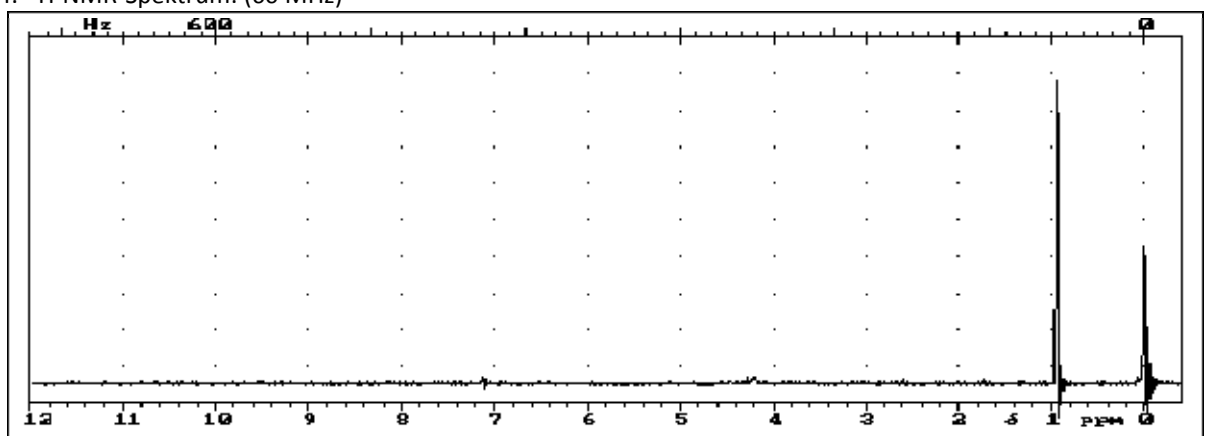
2. MS-Spektrum



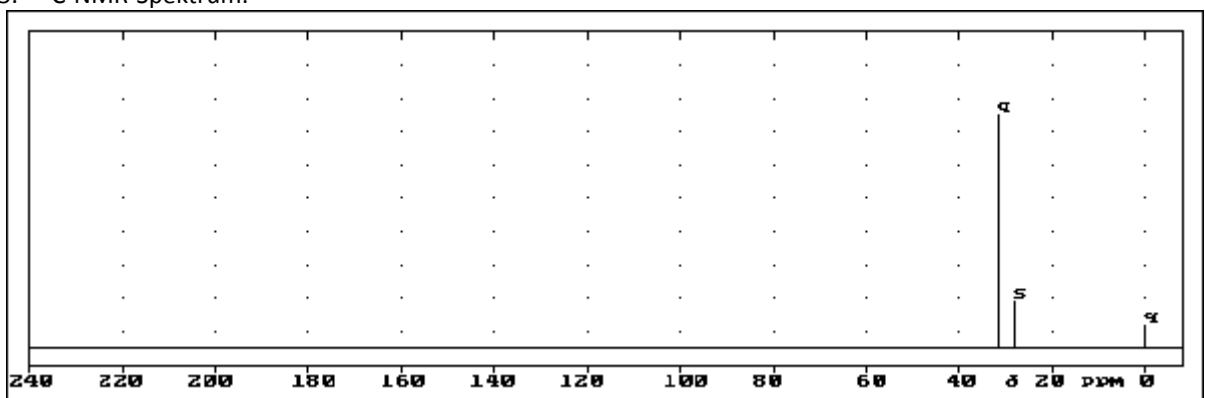
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



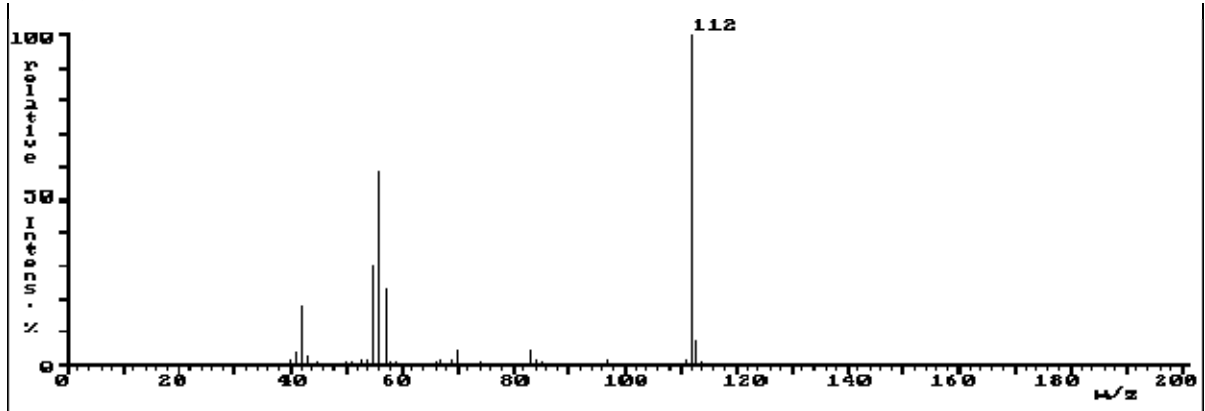
5. <sup>13</sup>C-NMR-Spektrum:



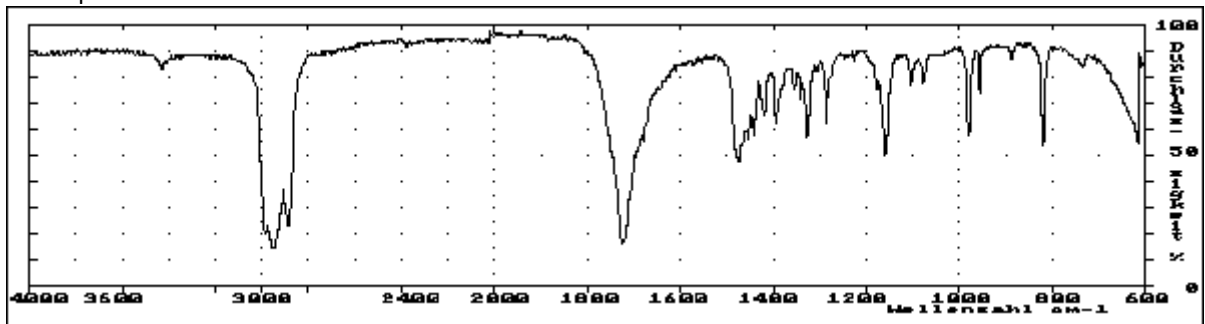
1. Quantitative Analyse:

C: 64.27%	H: 07.19%	O:				enthält: C, H, O
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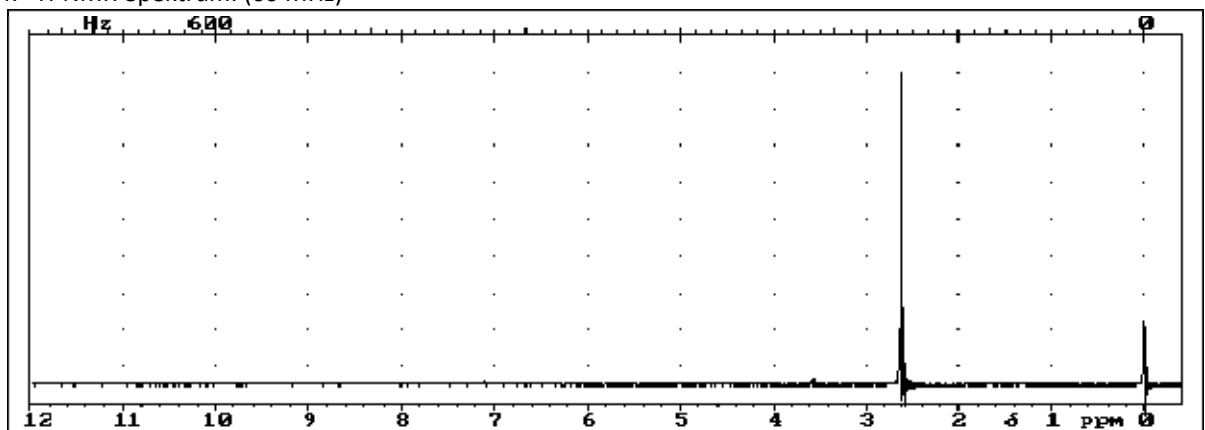
2. MS-Spektrum



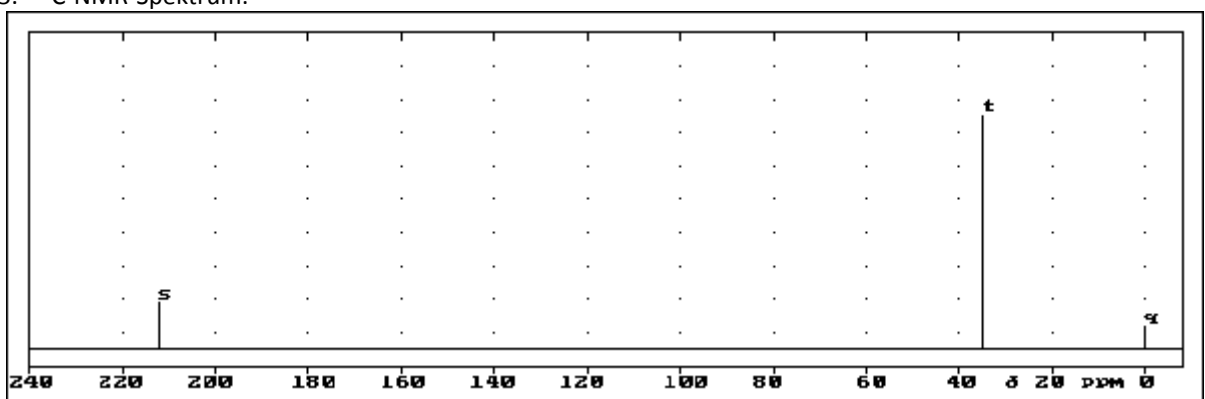
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



5. <sup>13</sup>C-NMR-Spektrum:

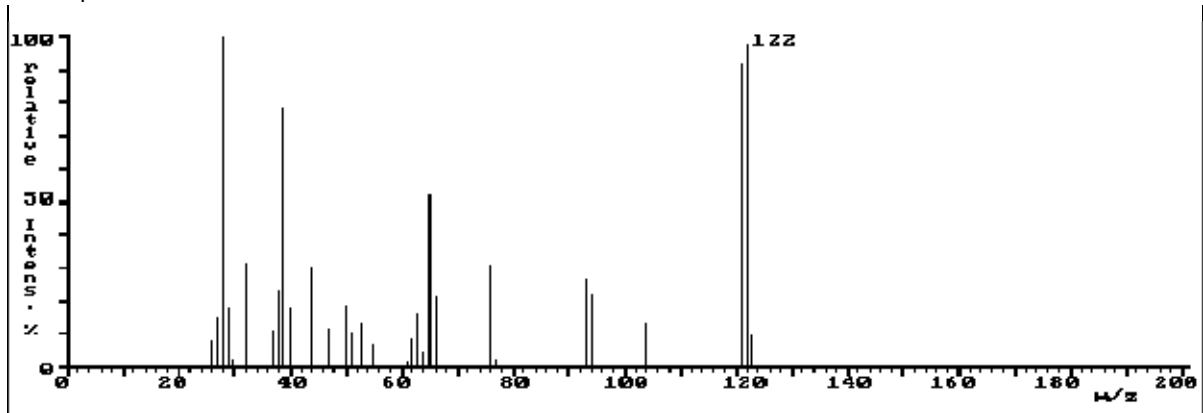




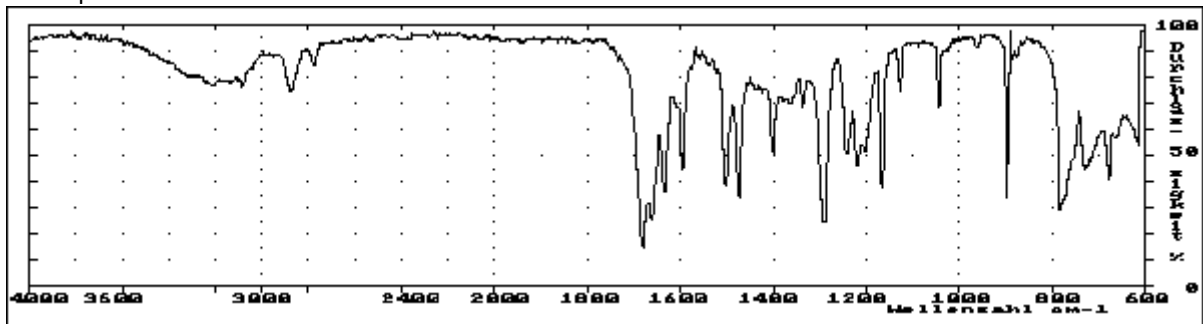
1. Quantitative Analyse:

C: 68.85%	H: 04.95 %	O:				enthält: C, H, O
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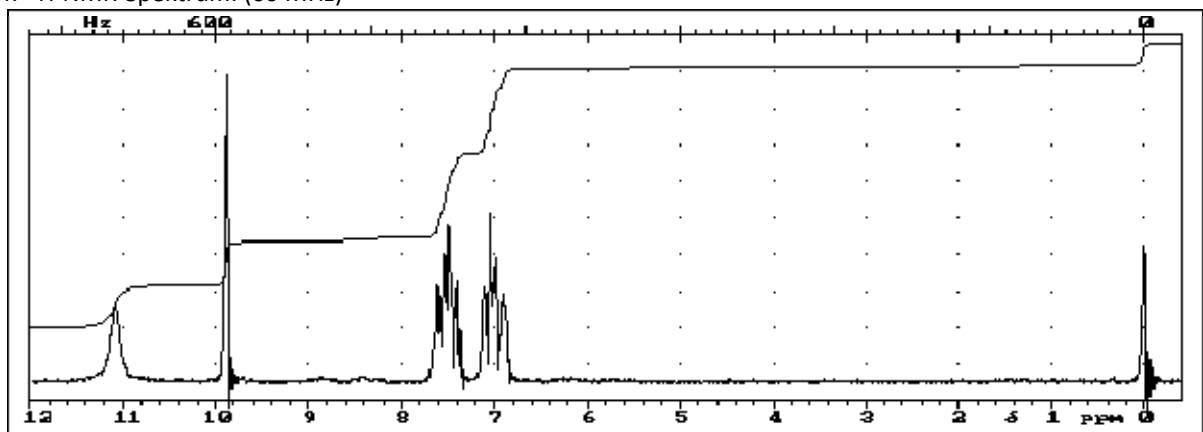
2. MS-Spektrum



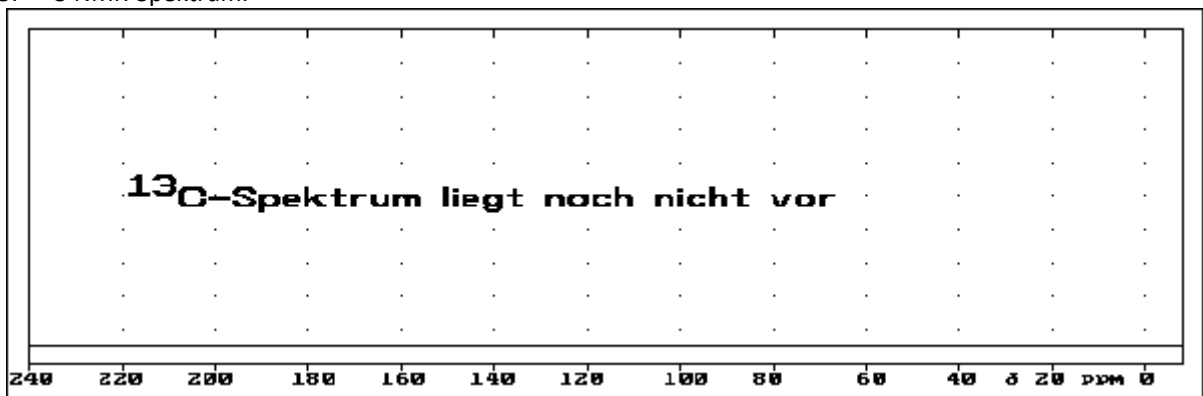
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



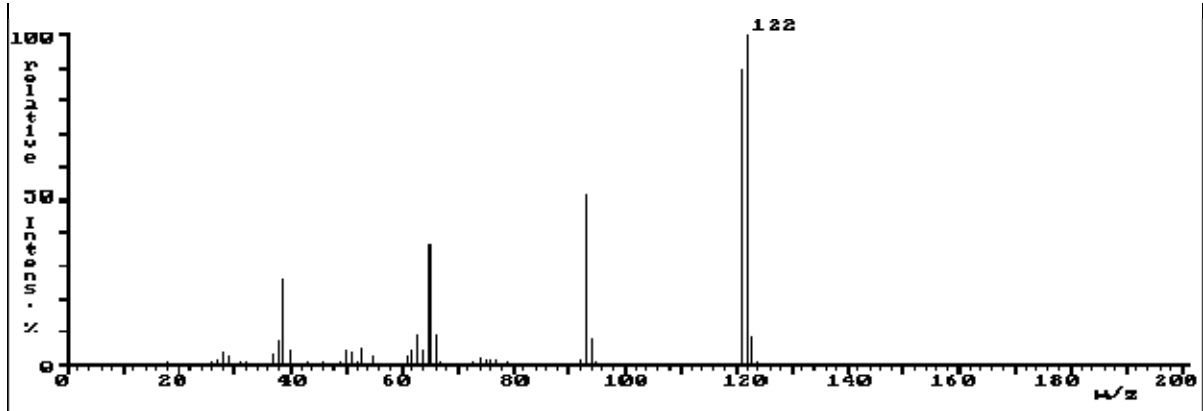
5. <sup>13</sup>C-NMR-Spektrum:



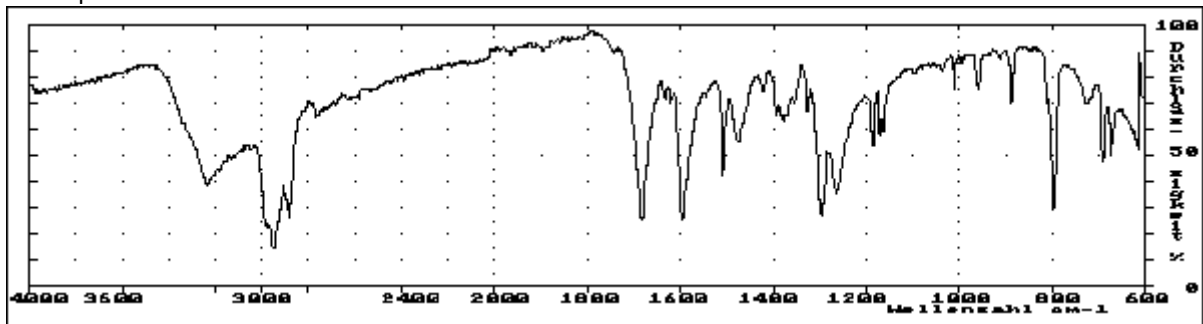
1. Quantitative Analyse:

C: 63.85 %	H: 04.95 %	O:				enthält: C, H, O
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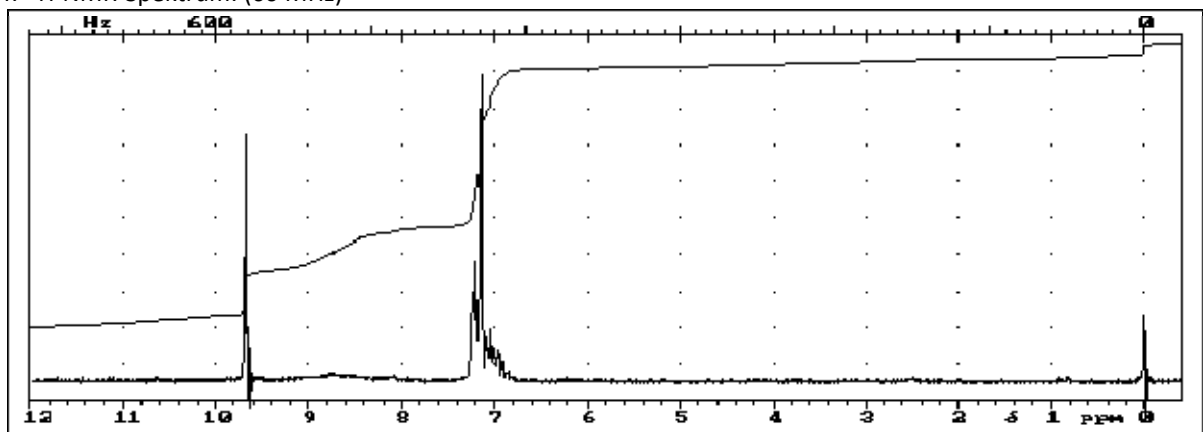
2. MS-Spektrum



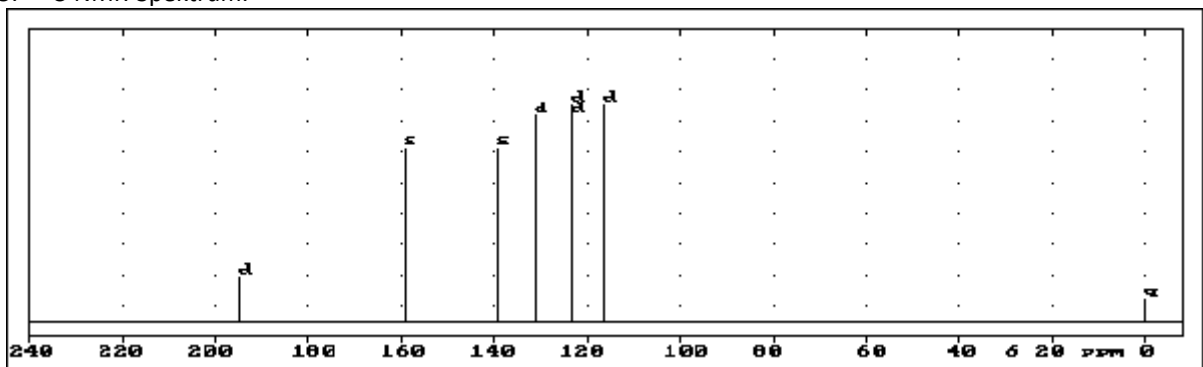
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



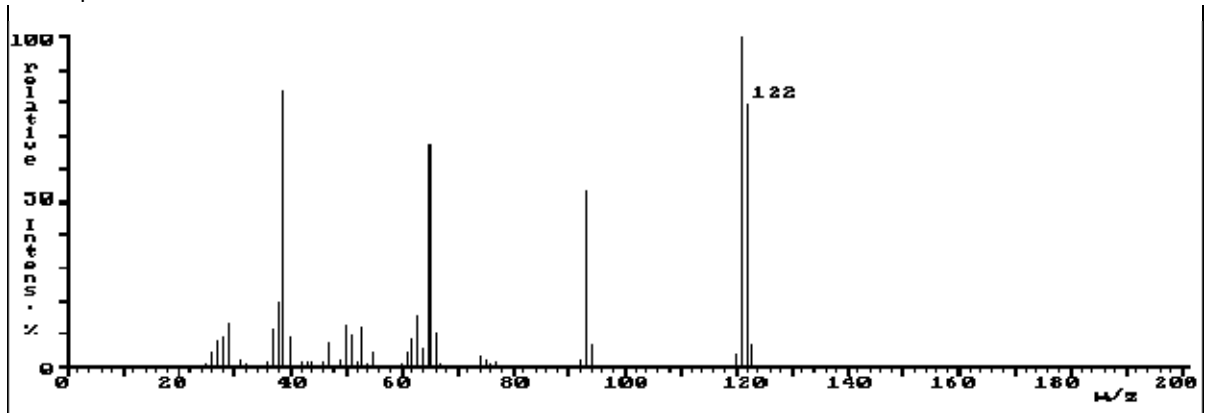
5. <sup>13</sup>C-NMR-Spektrum:



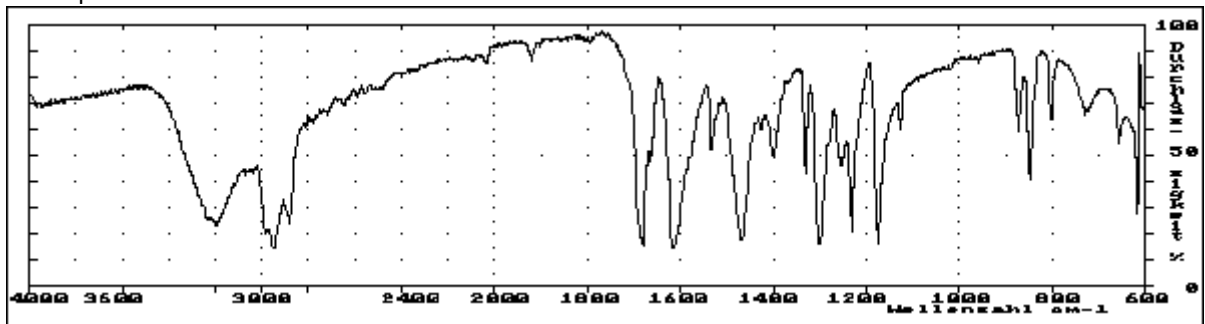
1. Quantitative Analyse:

C: 63.85 %	H: 04.95 %	O:				enthält: C, H, O
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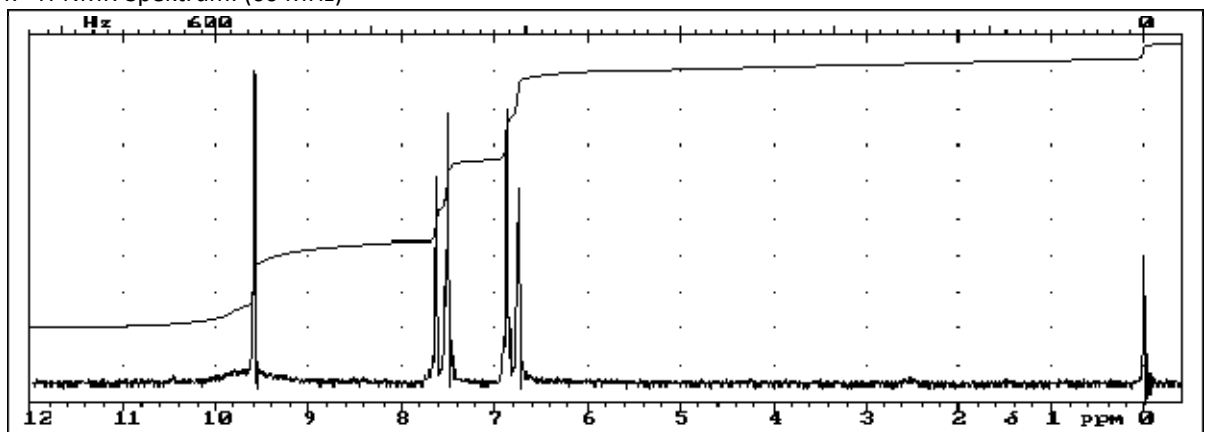
2. MS-Spektrum



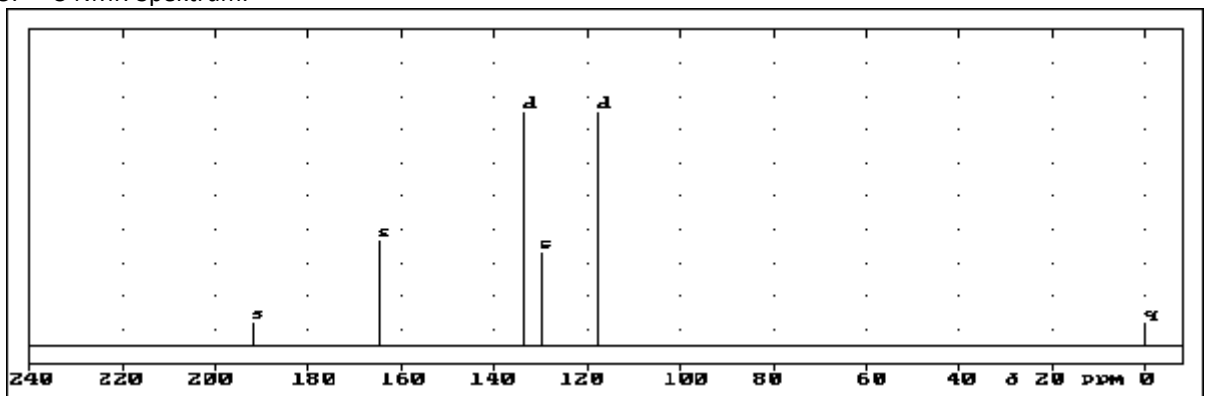
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



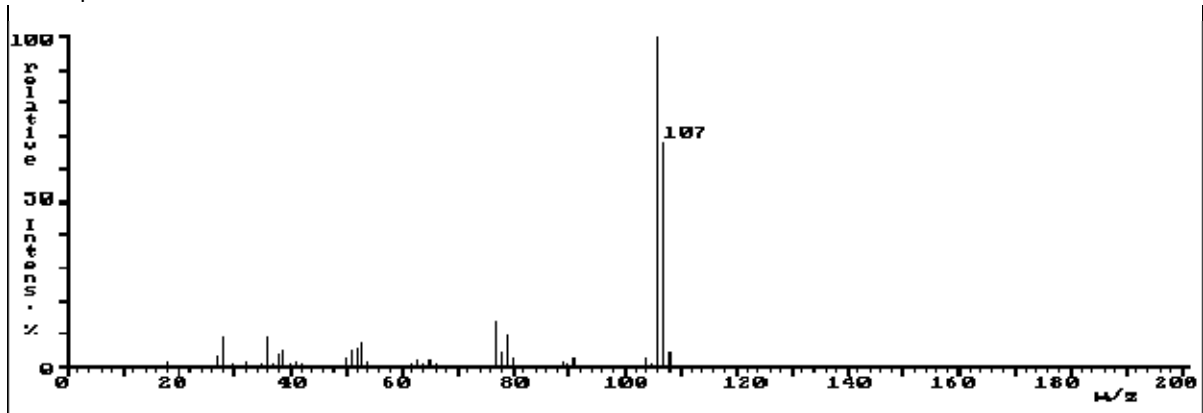
5. <sup>13</sup>C-NMR-Spektrum:



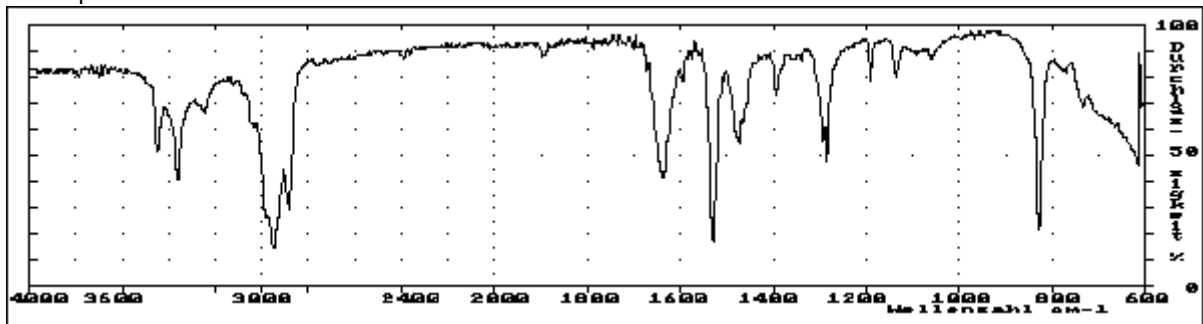
1. Quantitative Analyse:

C: 78.46%	H: 08.47%	O:				enthält: C, H, O
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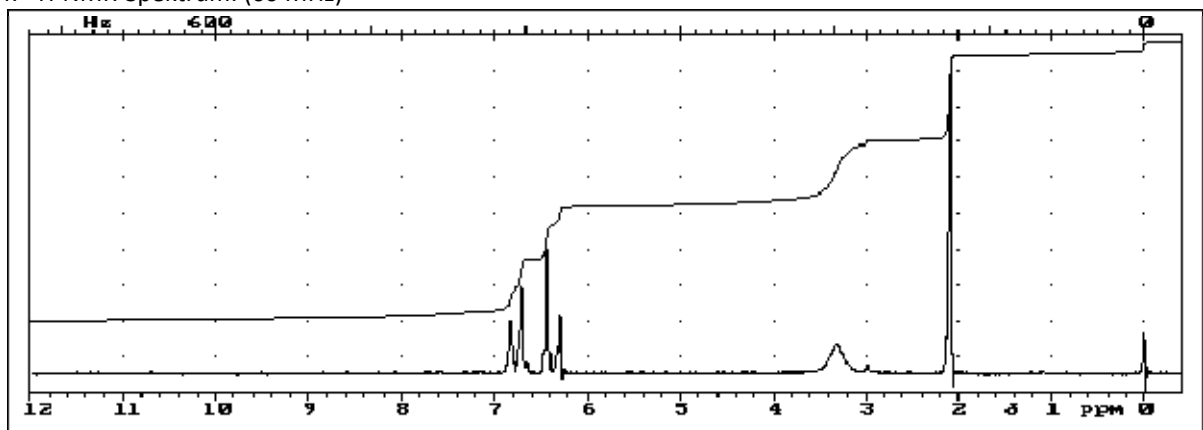
2. MS-Spektrum



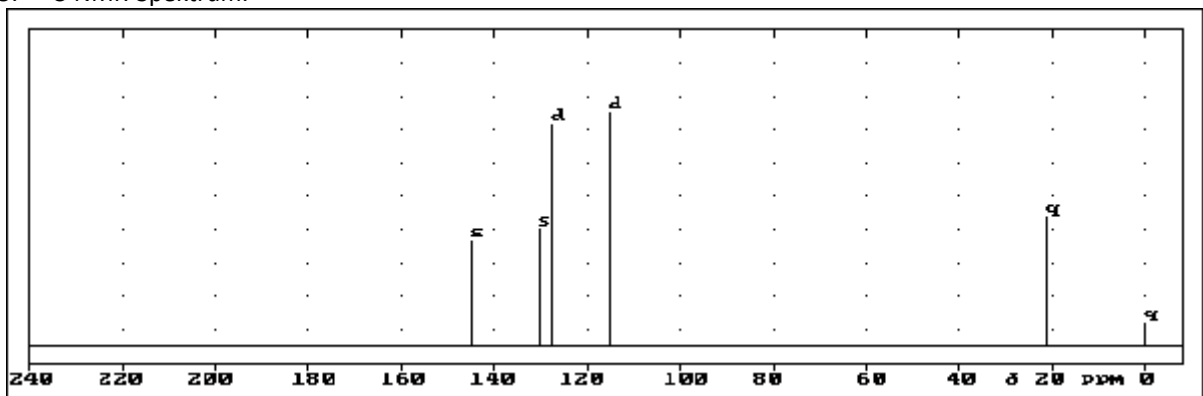
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



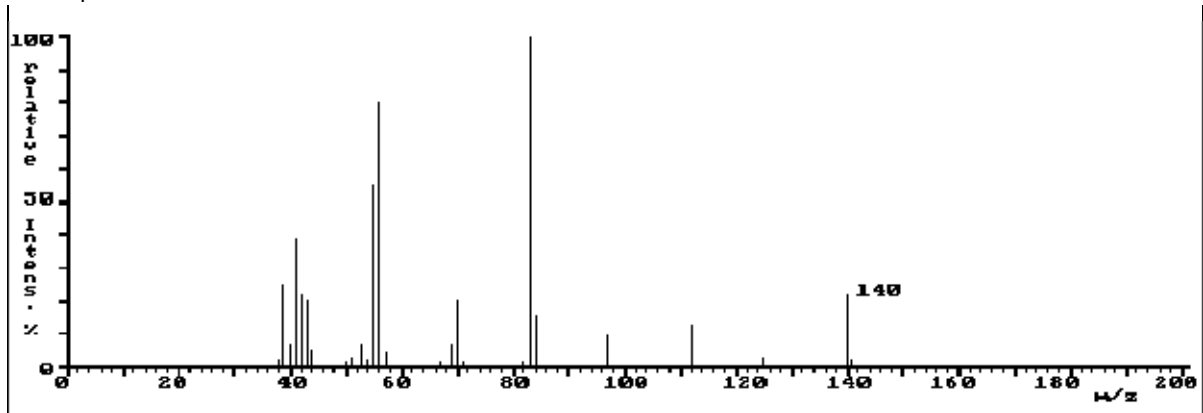
5. <sup>13</sup>C-NMR-Spektrum:



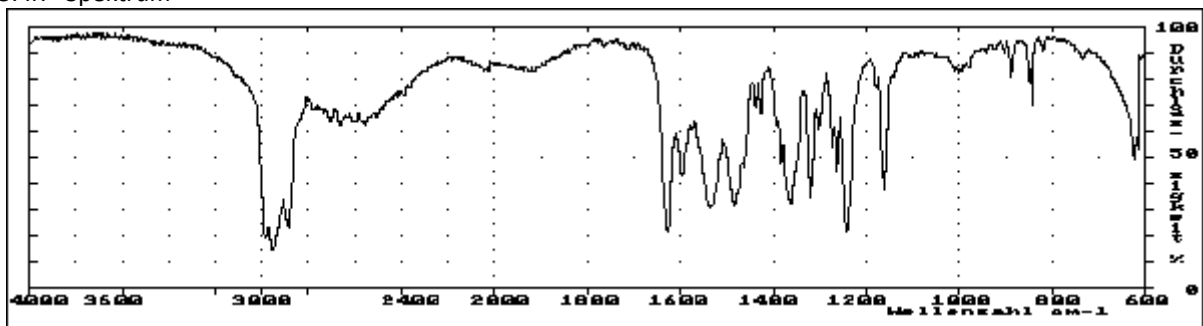
1. Quantitative Analyse:

C: 68.55%	H: 08.63 %	O:				enthält: C, H, O
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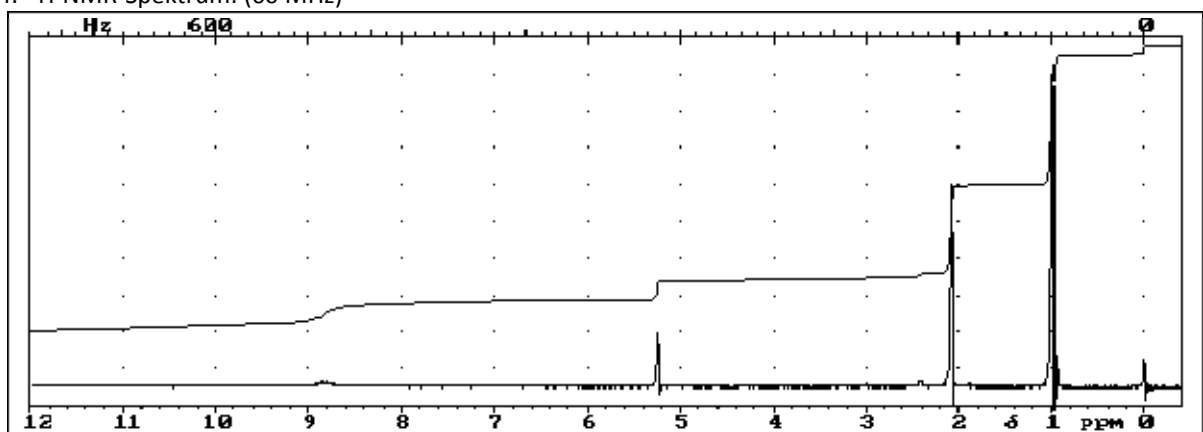
2. MS-Spektrum



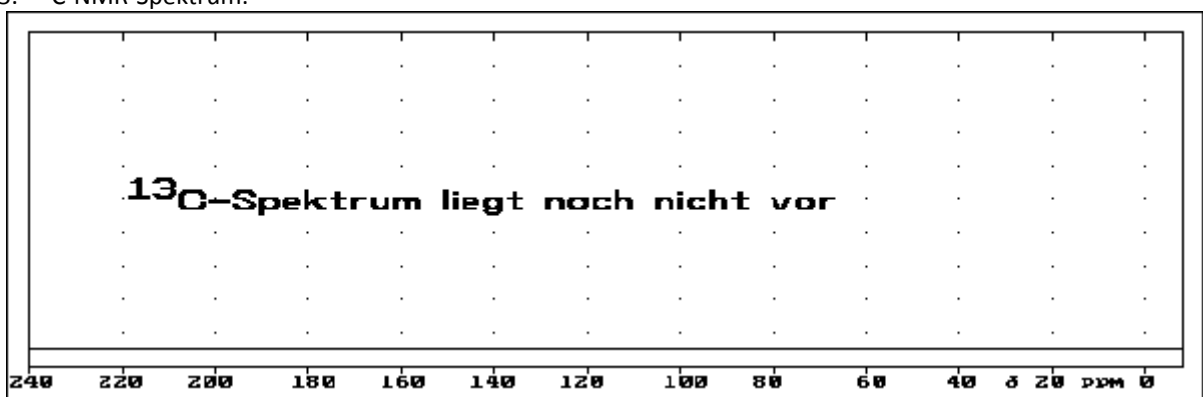
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



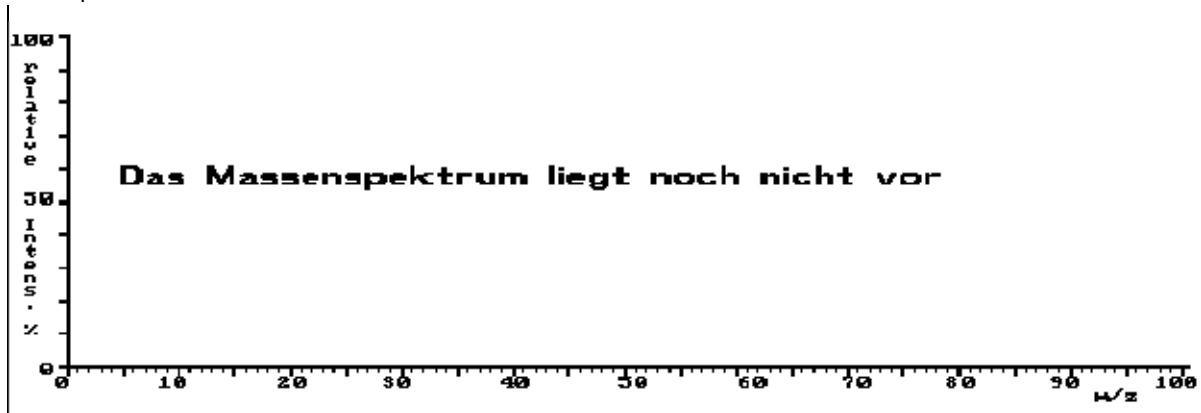
5. <sup>13</sup>C-NMR-Spektrum:



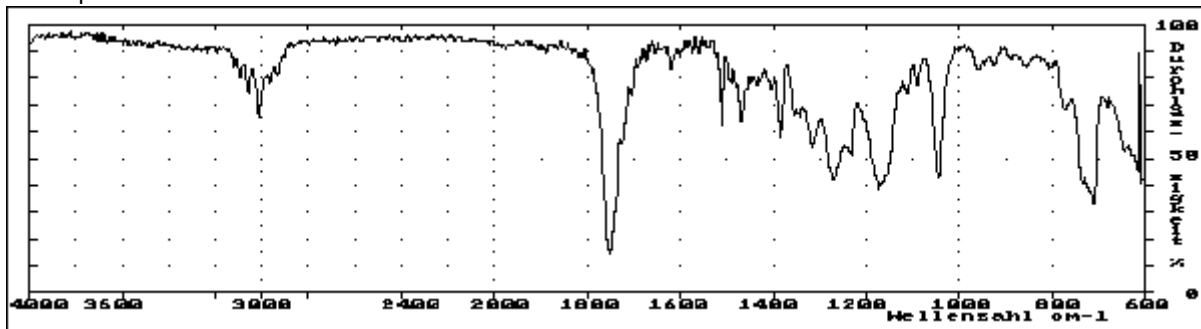
1. Quantitative Analyse:

C: 73.15 %	H: 07.37 %	O:				enthält: C, H, O
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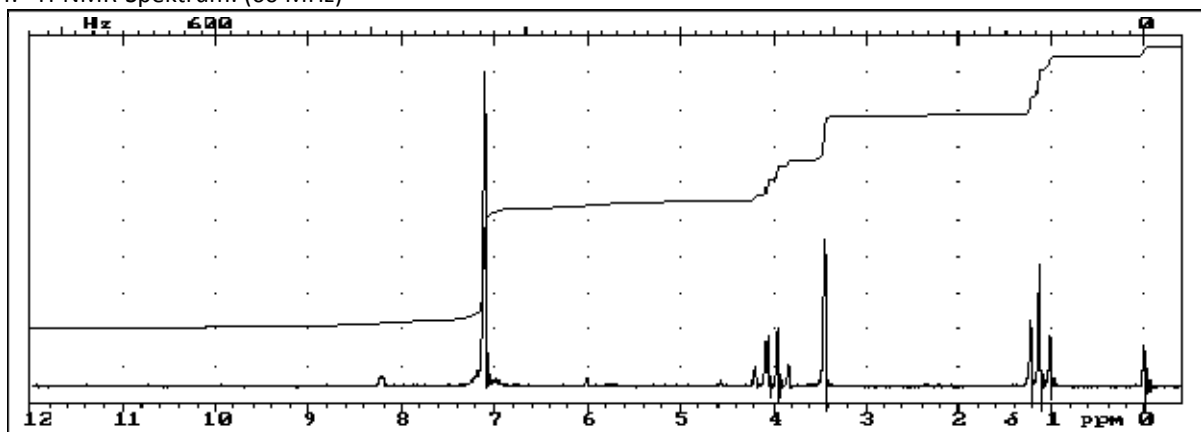
2. MS-Spektrum



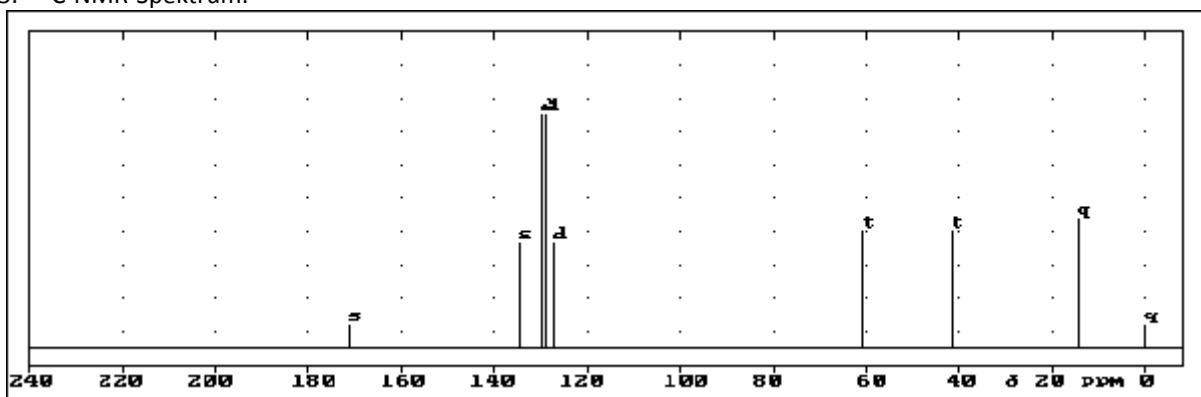
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



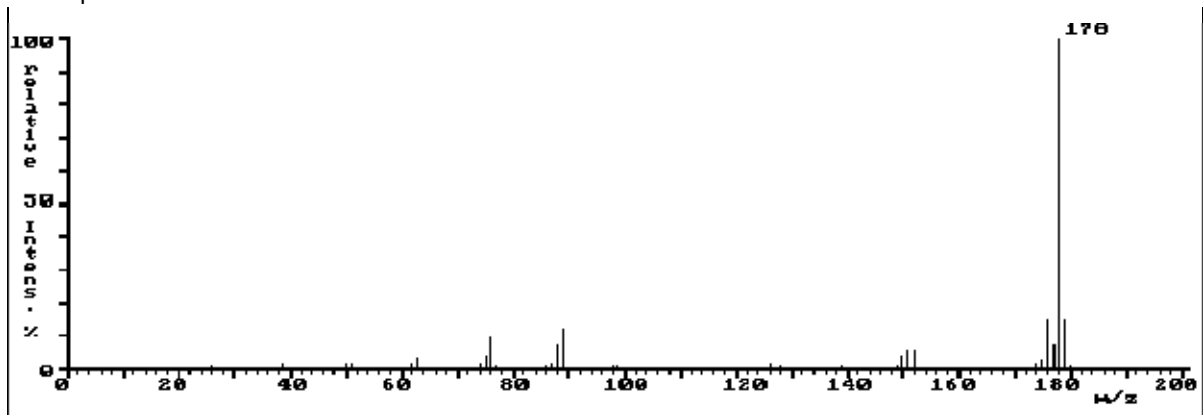
5. <sup>13</sup>C-NMR-Spektrum:



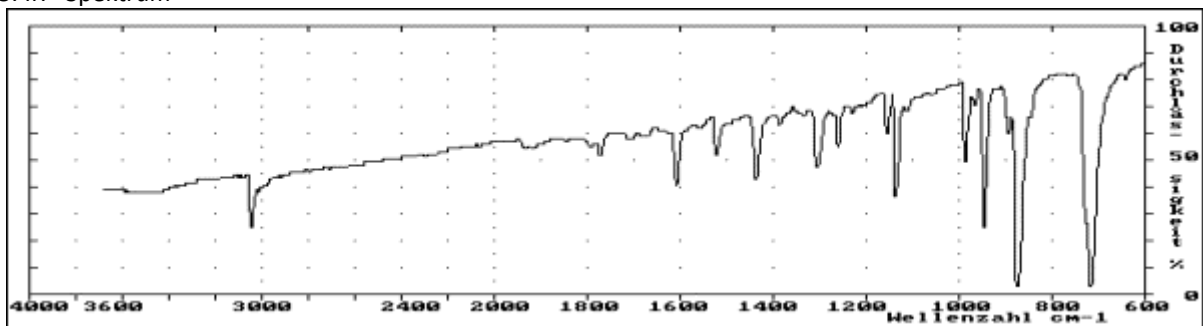
1. Quantitative Analyse:

C: 94.35 %	H: 05.65 %	O:				enthält: C, H
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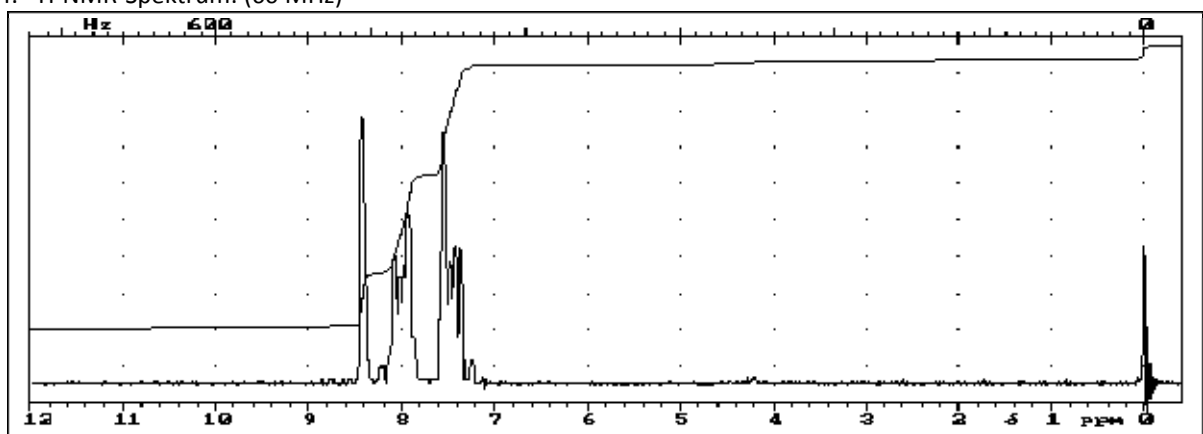
2. MS-Spektrum



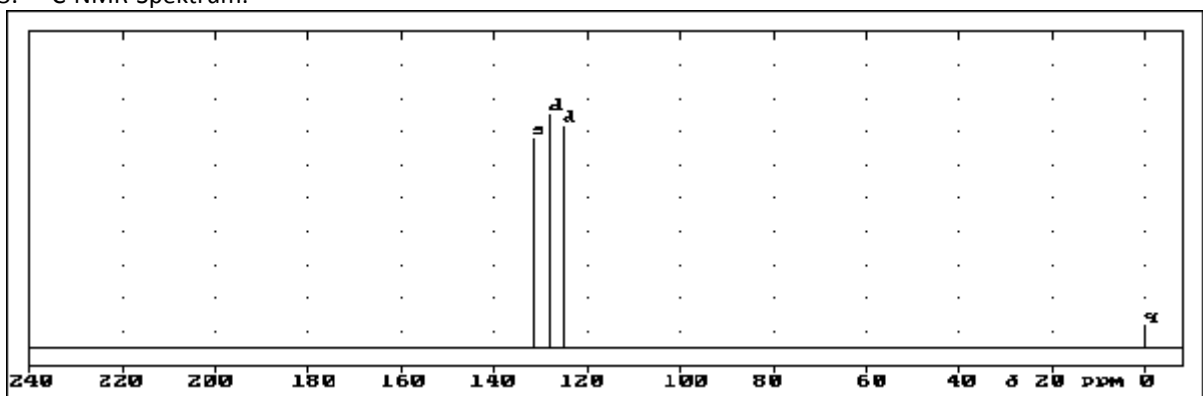
3. IR - Spektrum



4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)



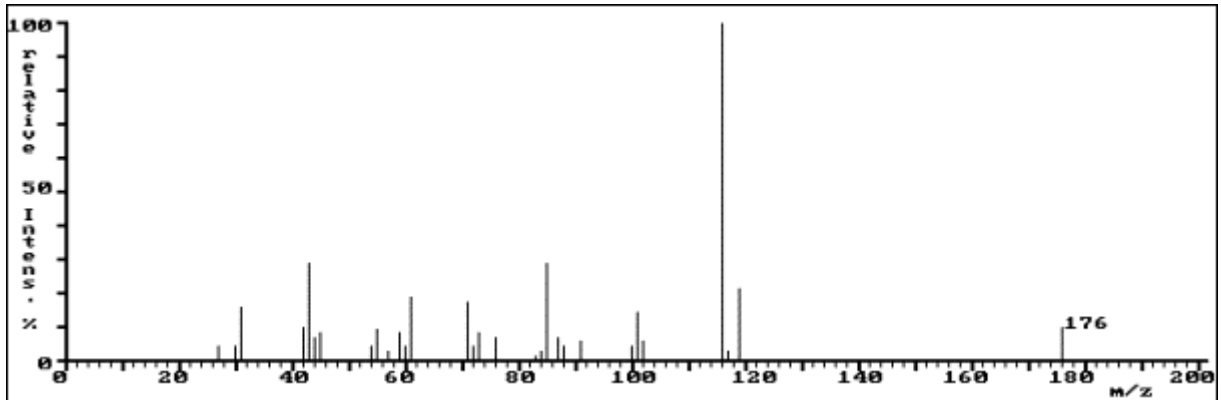
5. <sup>13</sup>C-NMR-Spektrum:



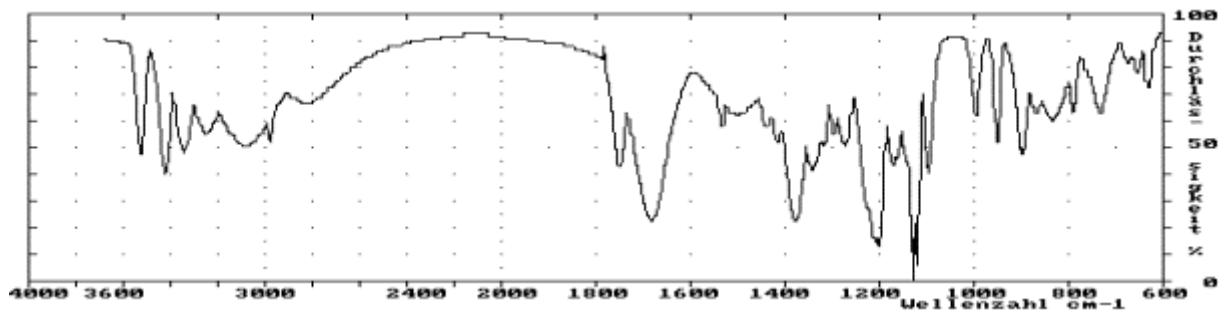
1. Quantitative Analyse:

C: 40.91 %	H: 04.54 %	O:				enthält: C, H, O
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2. MS-Spektrum



3. IR - Spektrum



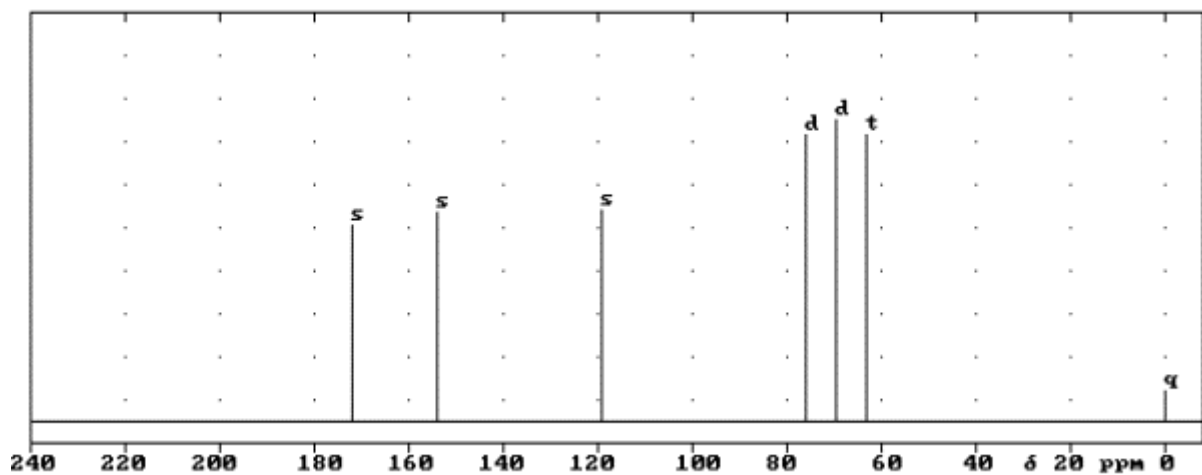
4. <sup>1</sup>H-NMR-Spektrum: (60 MHz)

Neues -NMR - Spektrum auf der nächsten Seite

Aufnahme mit einem 400 MHz- Spektrometer in DMSO-d<sub>6</sub>

Die üblichen Spektren wurden mit 60 MHz aufgenommen

5. <sup>13</sup>C-NMR-Spektrum:





$^1\text{H}$ -NMR-Spektrum: (400 MHz)

