

Supporting Information for the Paper entitled

Synthesis of a Landomycinone Skeleton via Masamune-Bergmann Cyclization.

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2-12-1-H-101, Ookayama, Meguro-ku, Tokyo 152-8552, Japan*

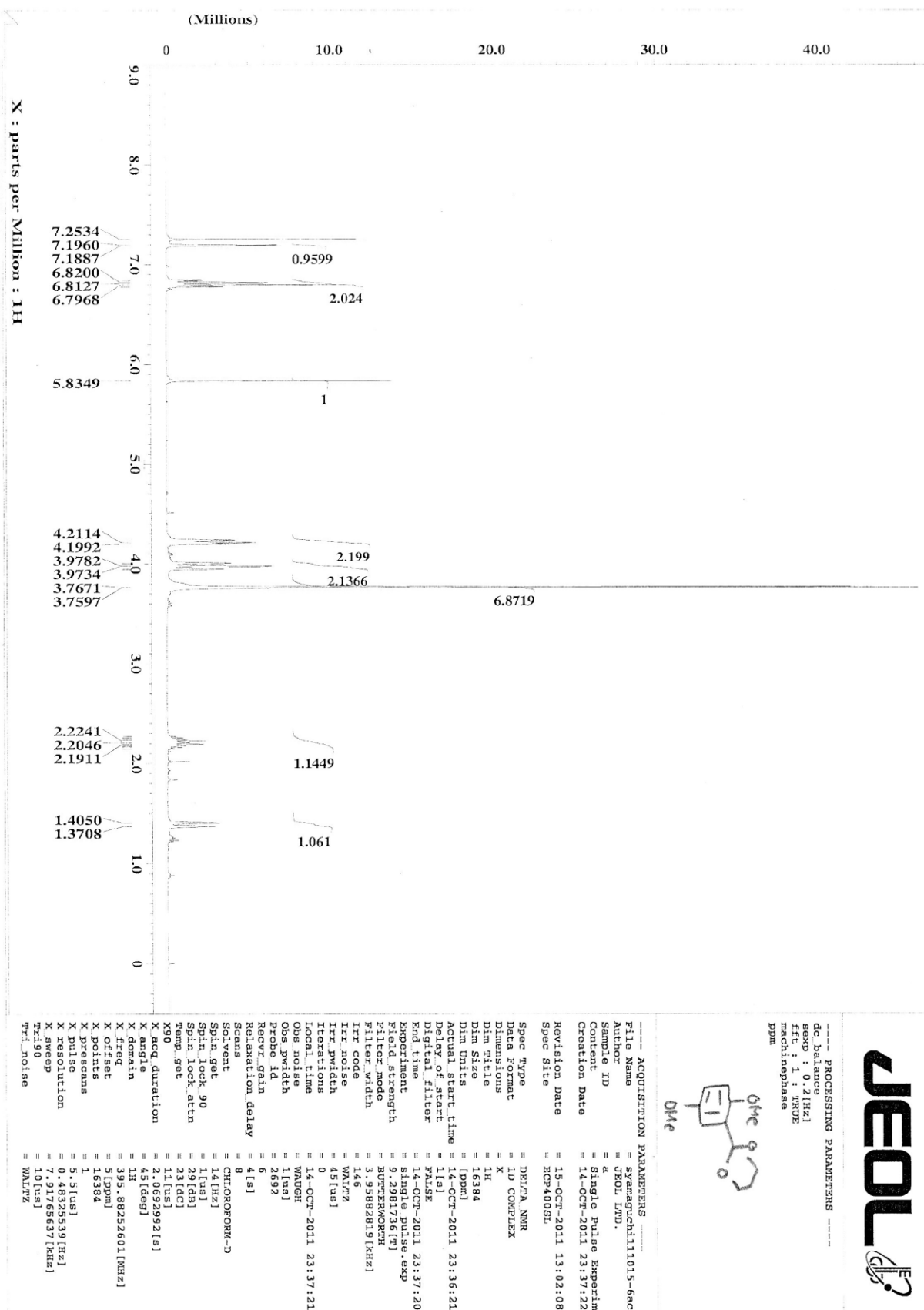
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2-12-1-E4-6, Ookayama, Meguro-ku, Tokyo 152-8552, Japan*

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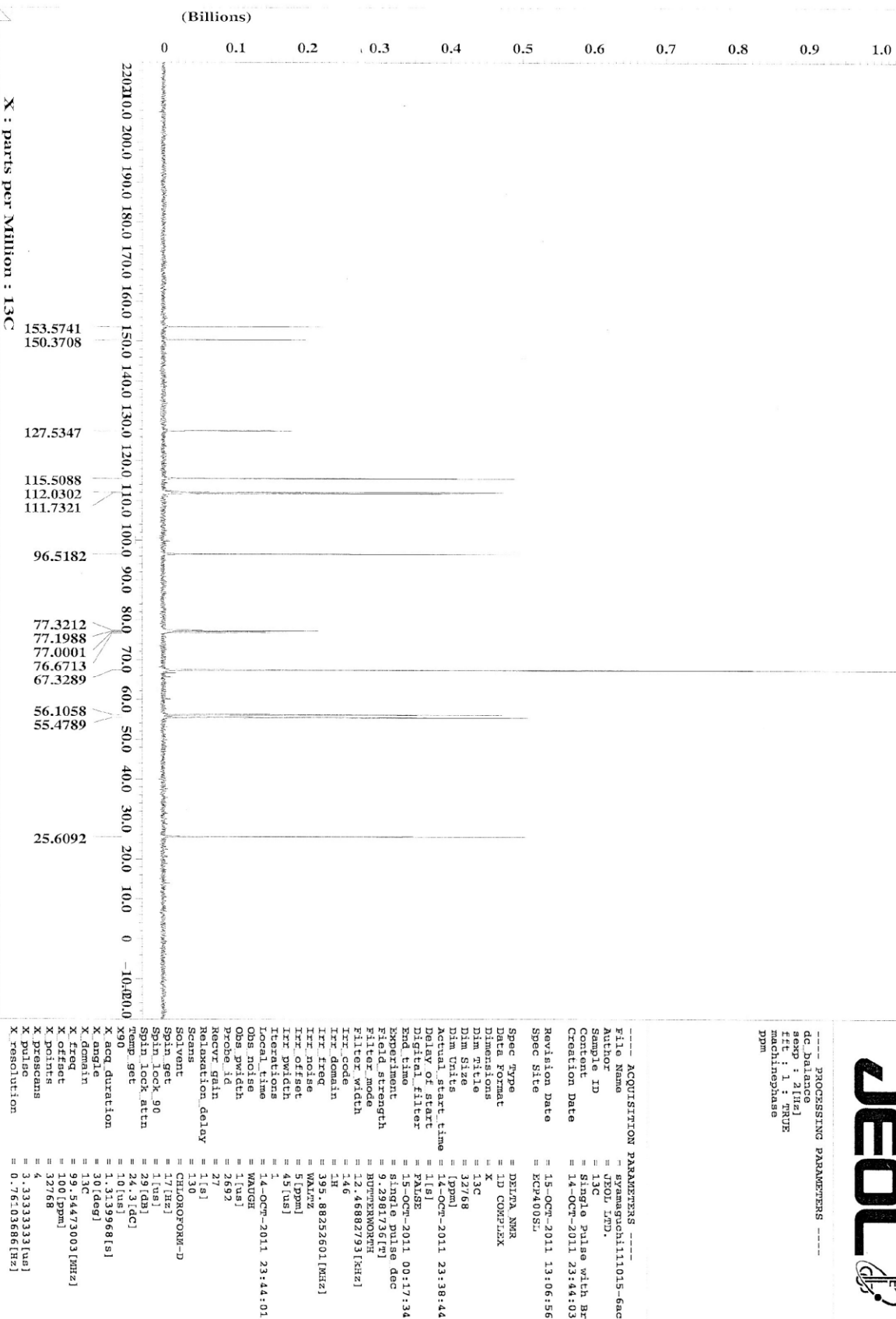
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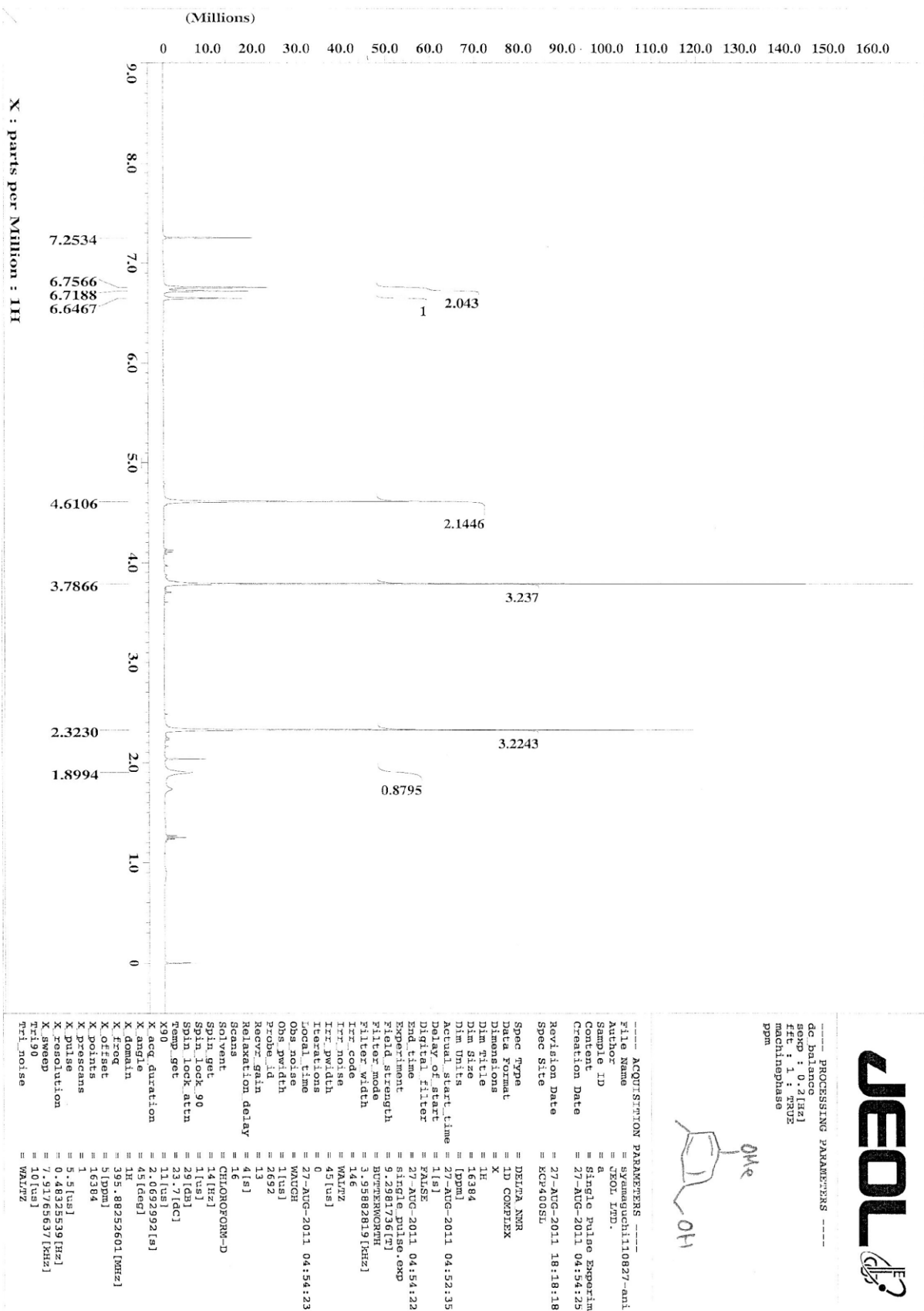
The Name of Compounds	Page
2-(2,5-dimethoxyphenyl)-1,3-dioxane (16)	S2
(3-methoxy-5-methylphenyl)methanol (18)	S4
(2-iodo-3-methoxy-5-methylphenyl)methanol (19)	S6
2-iodo-3-methoxy-5-methylbenzaldehyde (20)	S8
2-(2-iodo-3-methoxy-5-methylphenyl)acetaldehyde (21)	S10
<i>tert</i> -butyl(2-iodo-3-methoxy-5-methylphenethoxy)dimethyl silane (22)	S12
2-(2-(<i>tert</i> -butyldimethylsilyloxy)ethyl)-6-methoxy-4-methylbenzaldehyde (23)	S14
<i>tert</i> -butyl(2-ethynyl-3-methoxy-5-methylphenethoxy)dimethyl silane (10)	S16
2-((2-(2-(<i>tert</i> -butyldimethylsilyloxy)ethyl)-6-methoxy-4-methylphenyl) ethynyl)-3,6-dimethoxybenzaldehyde (26)	S17
2-(2-((2-(iodoethynyl)-3,6-dimethoxyphenyl)ethynyl)-3-methoxy-5-methylphenyl)ethanol (27)	S19
2-(2-((2-(iodoethynyl)-3,6-dimethoxyphenyl)ethynyl)-3-methoxy-5-methylphenyl)acetaldehyde (8)	S21
1,2-dialkynylbenzene derivative (7)	S23
7-iodo-1,8,11-trimethoxy-3-methyltetraphene (28)	S25

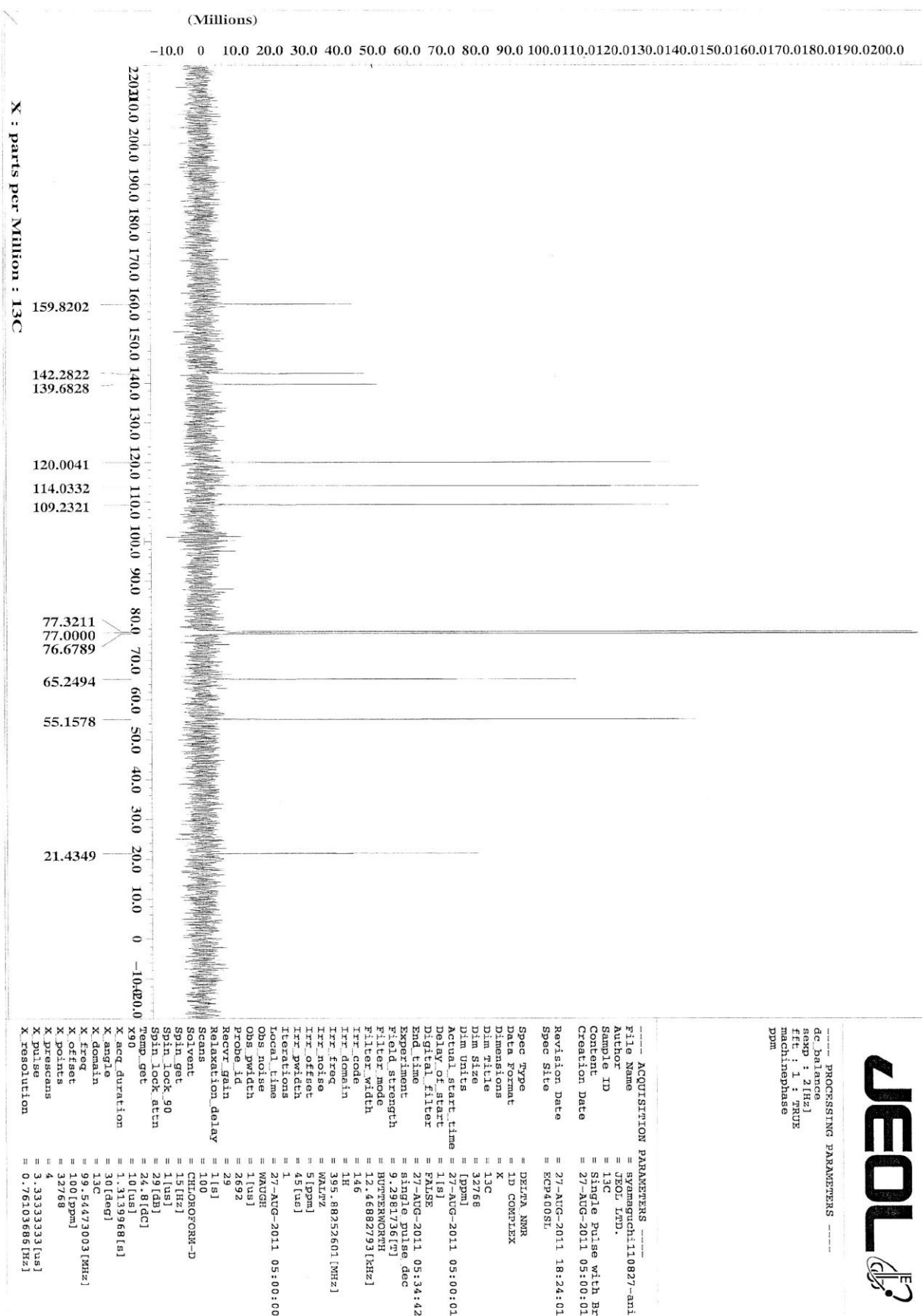




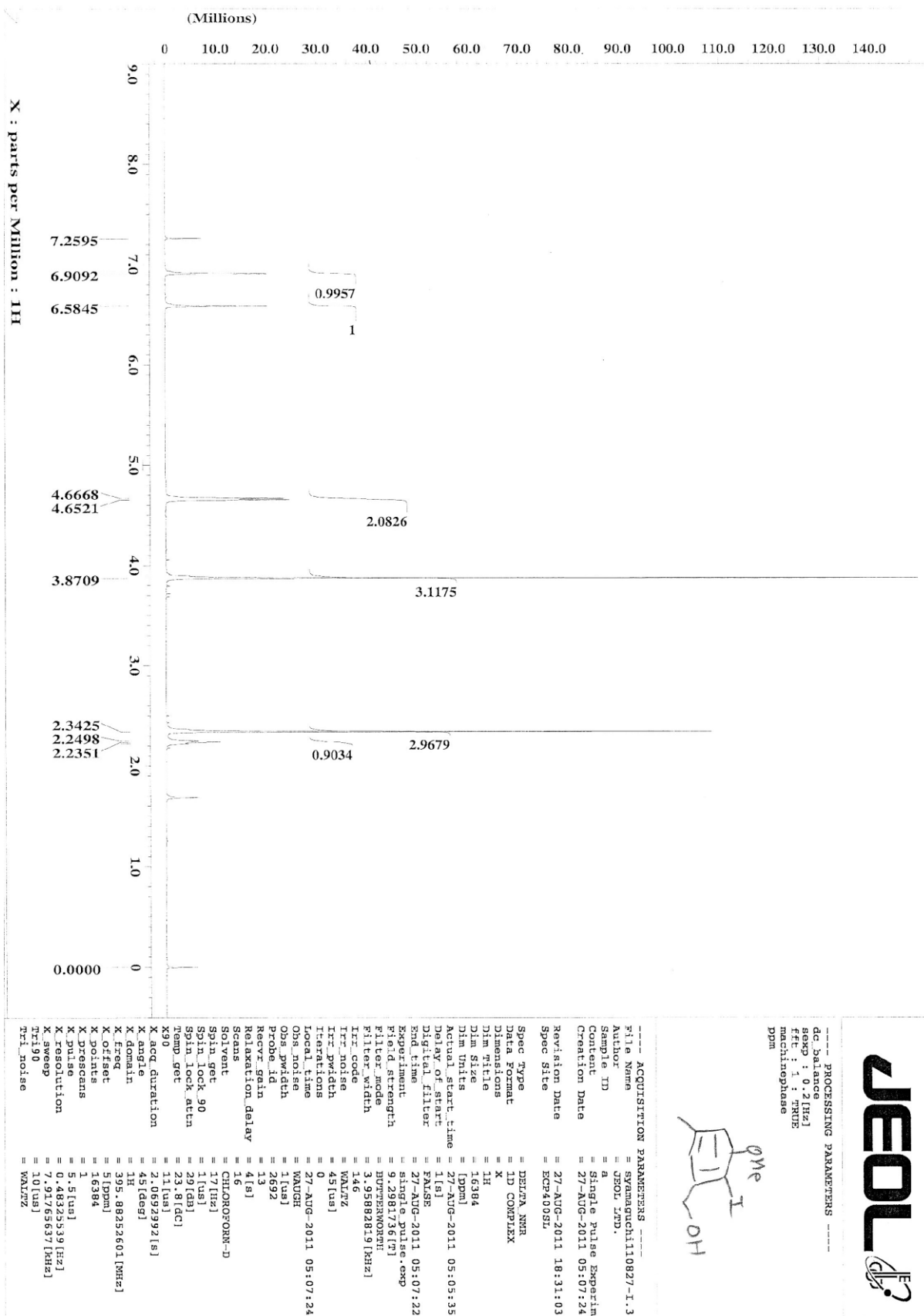
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 smp : 2 [Hz]
 f1 : 1 : TRUE
 machinephase
 ppm





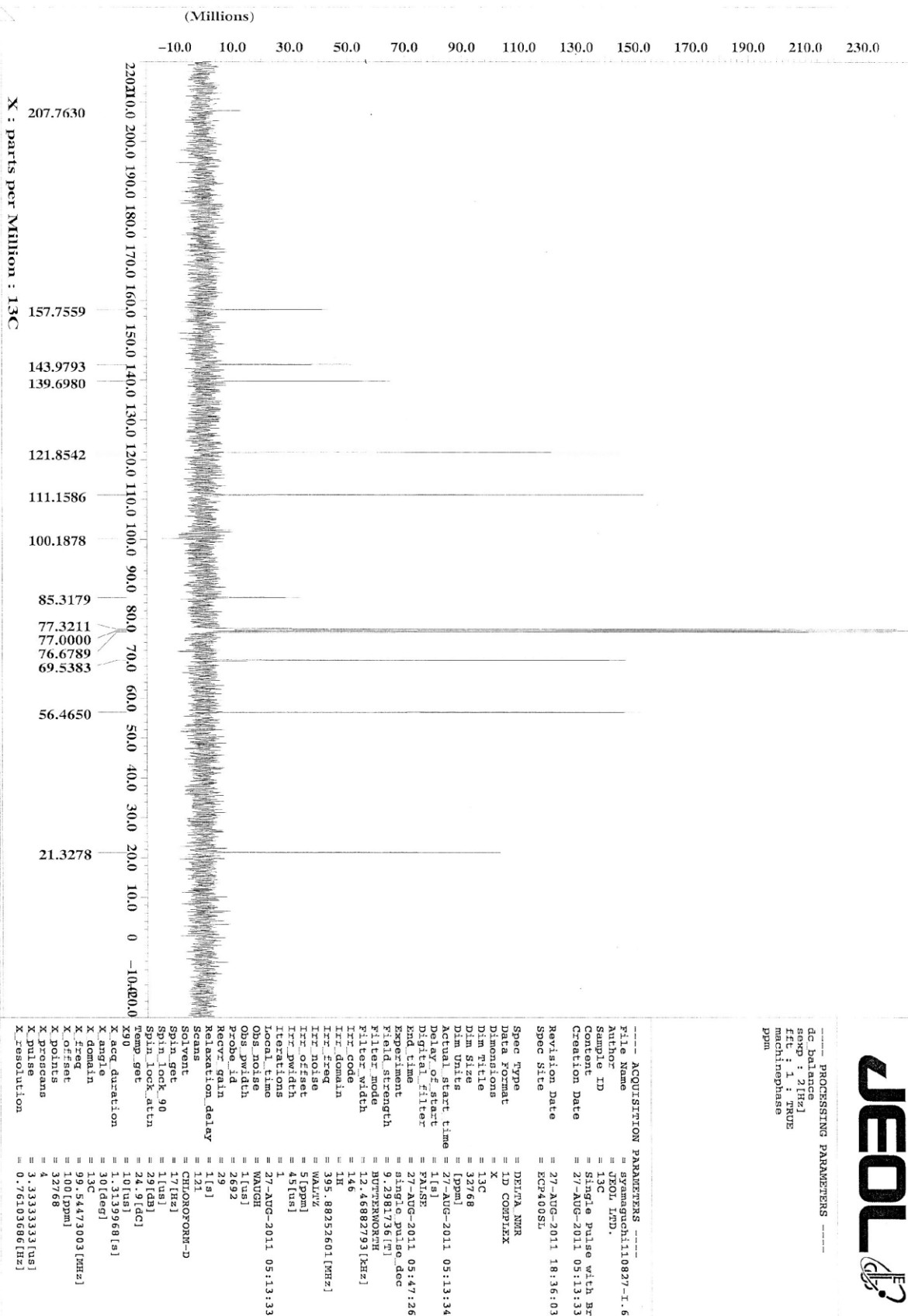


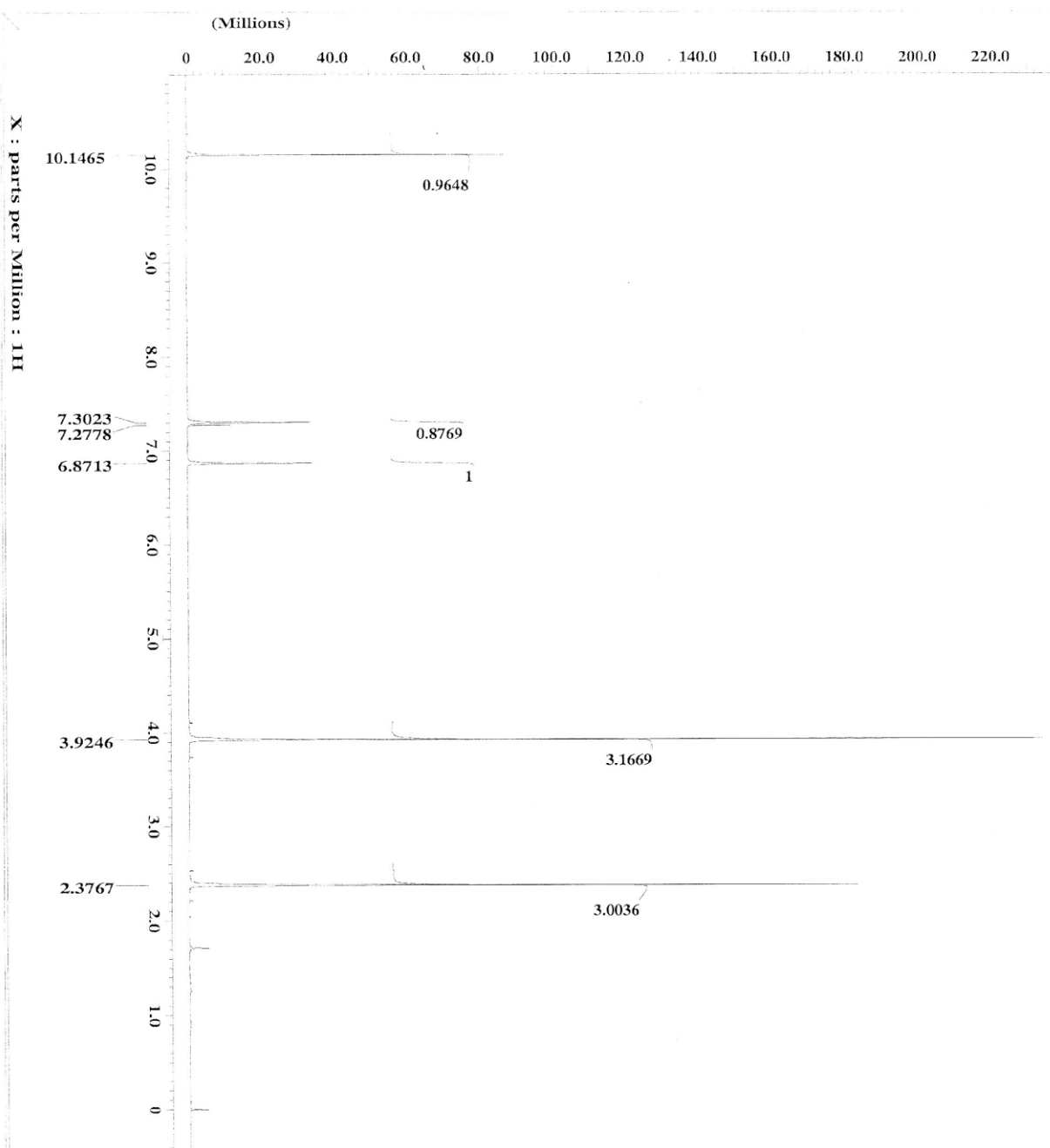
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sepd : 2 [Hz]
fft : 1 : TRUE
machinephase
ppm





----- PROCESSING PARAMETERS -----
 dc balance
 sexp : 2 [Hz]
 f1 : 1 : TRUE
 machphase
 ppm





JEOL

PROCESSING PARAMETERS

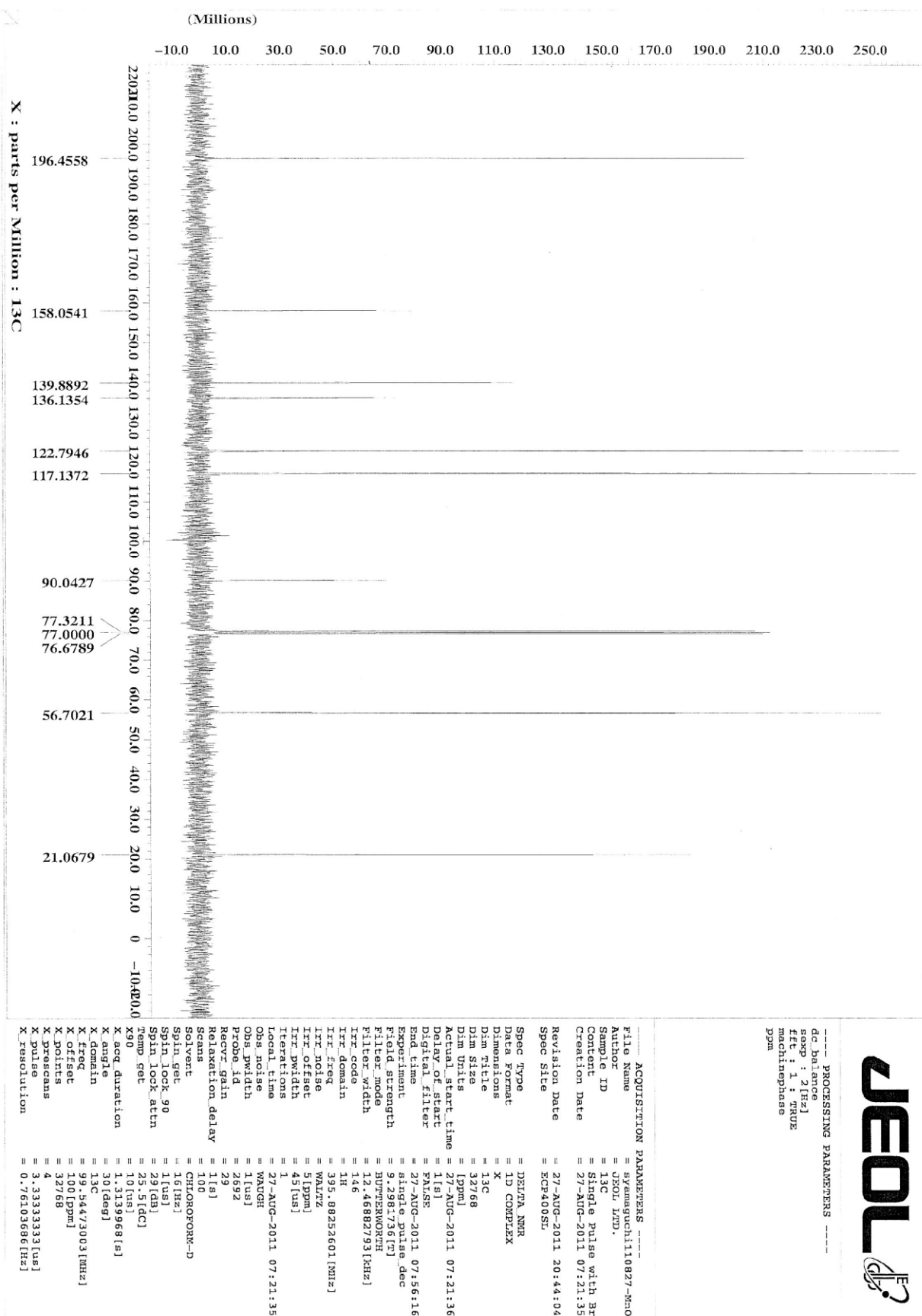
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freq : 400.13 [MHz]
nuc1 : ¹H
nuc2 : ¹³C

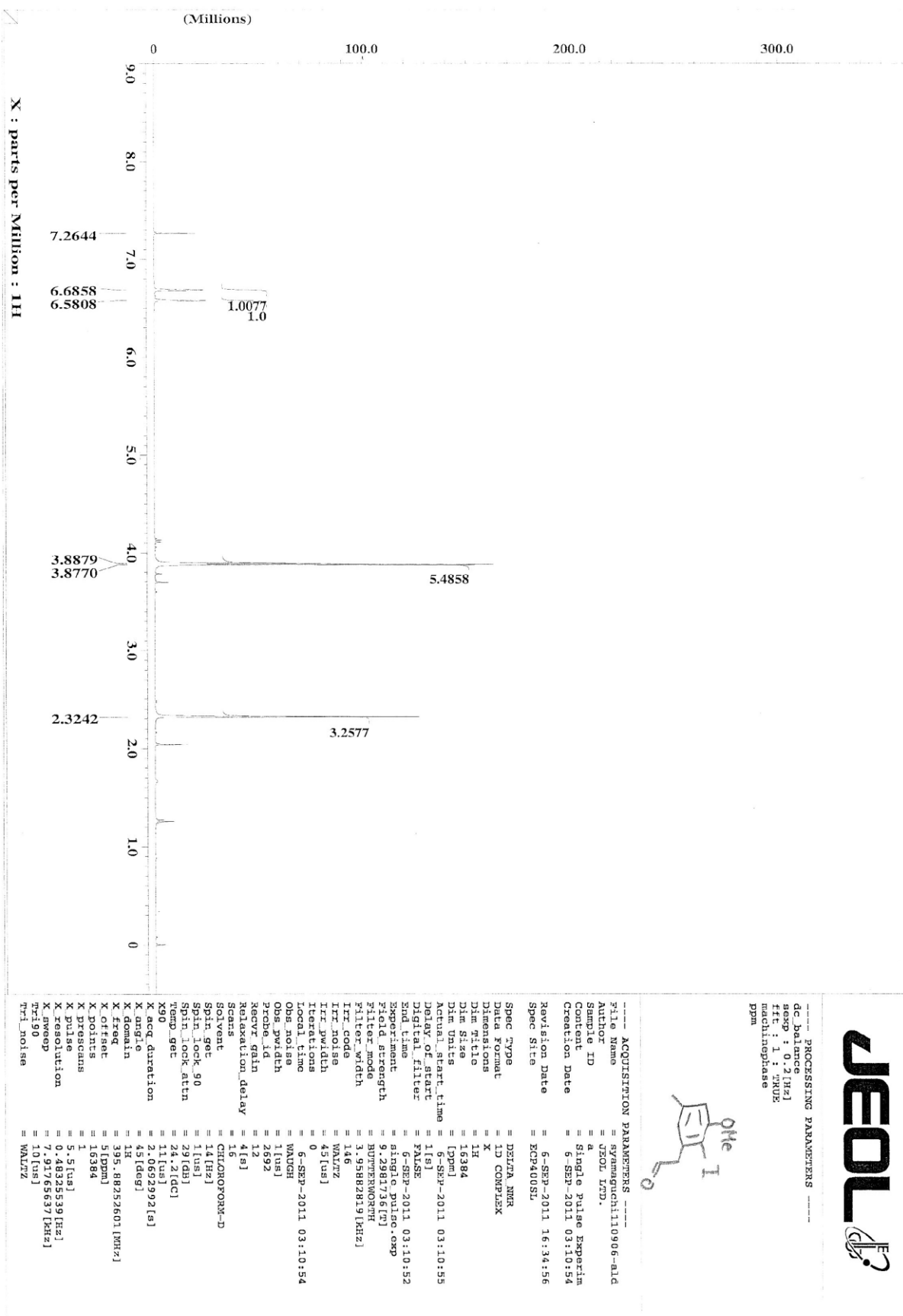
ACQUISITION PARAMETERS

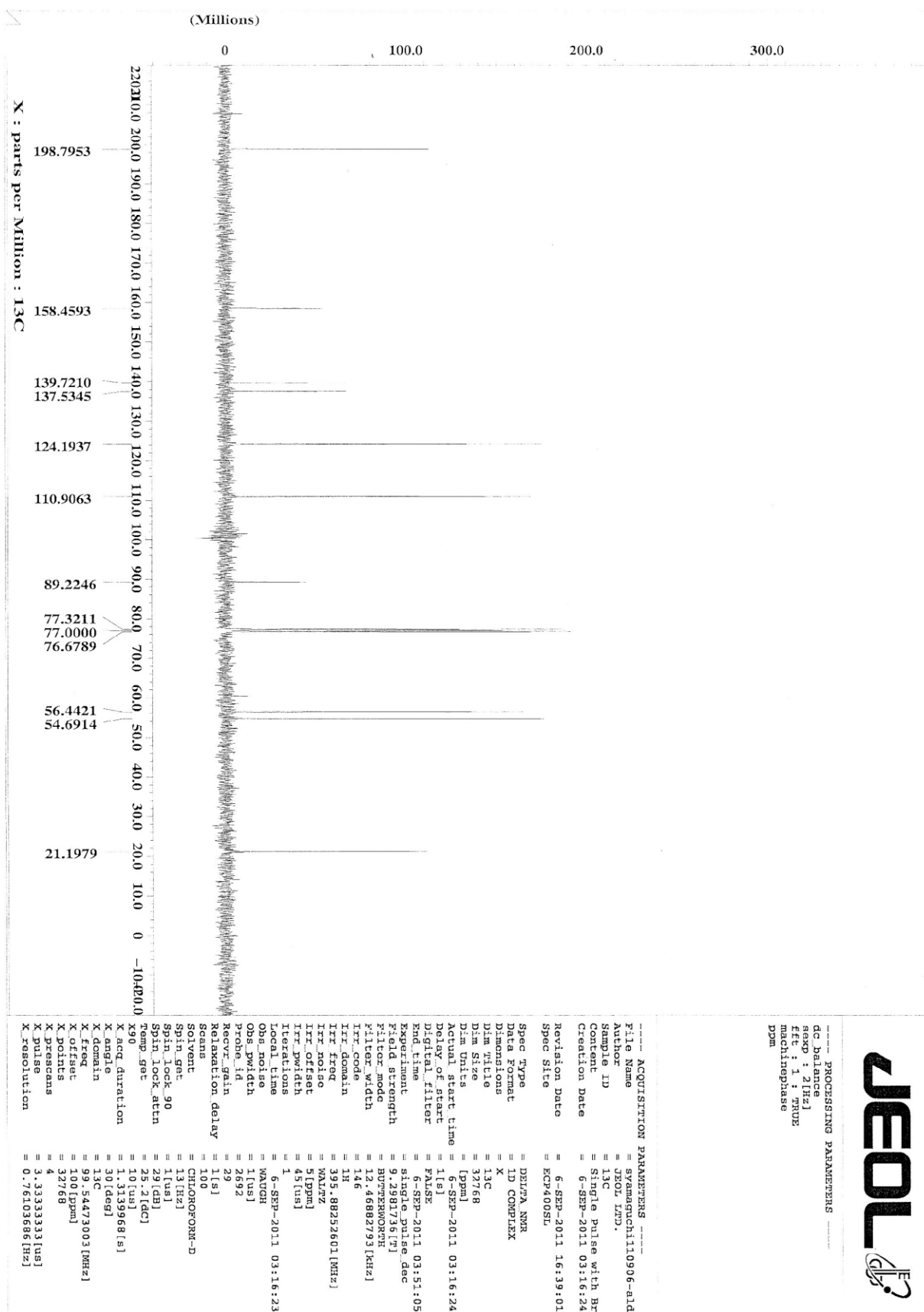
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Author = JEOL LTD.
Sample ID = a
Content = Single Pulse Experim
Creation Date = 27-AUG-2011 07:12:16
Revision Date = 27-AUG-2011 20:35:56
Spec Site = ECP400SL

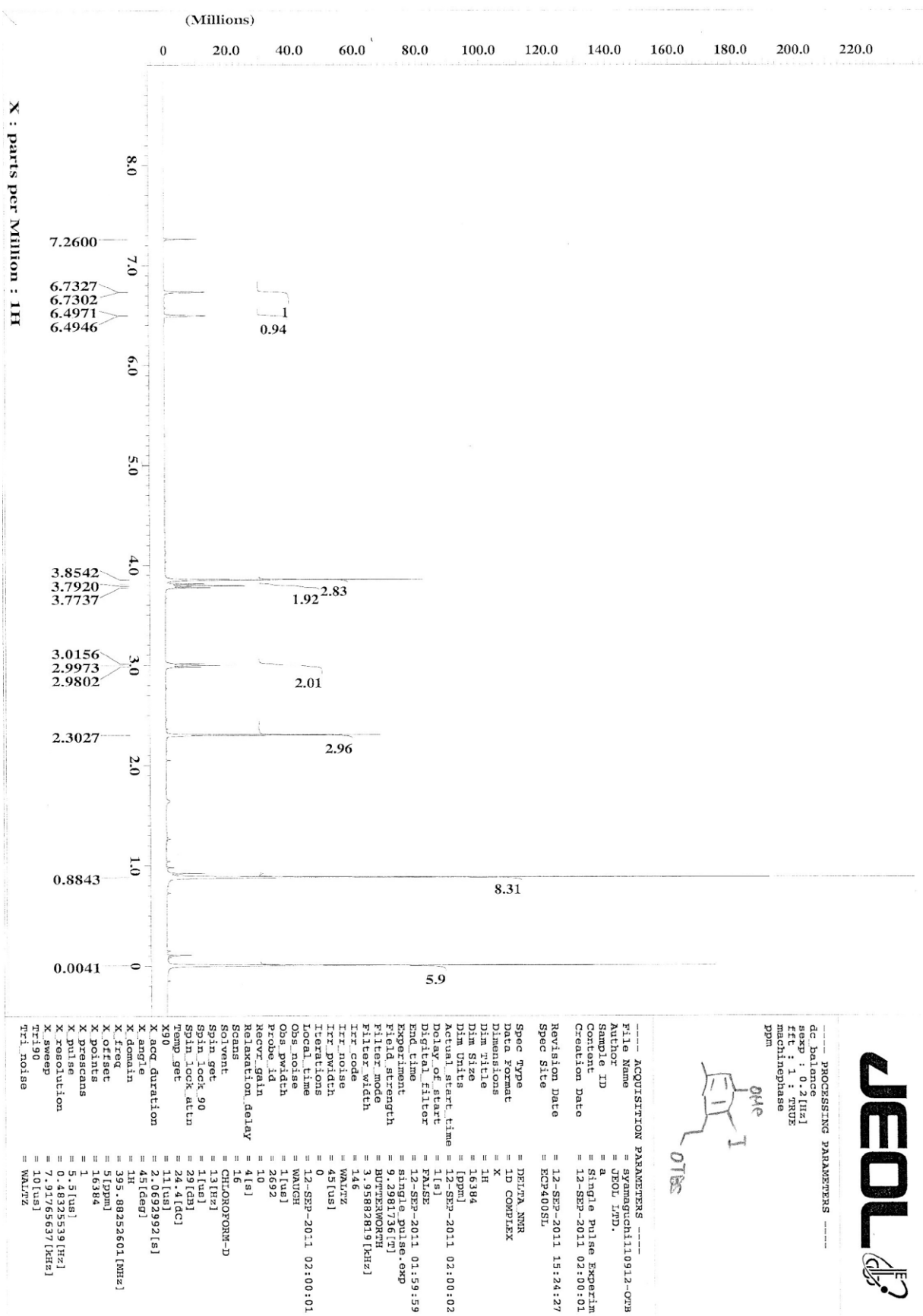
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Delay of start = 1 [s]
Digital filter = FALSE
End time = 27-AUG-2011 07:12:14
Experiment = single pulse-exp
Field strength = 9.2381736 [T]
Filter mode = BUTTERWORTH
Filter width = 9.95862819 [kHz]
IR code = WALTZ
IR noise = 45 [us]
Iterations = 0
Local time = 27-AUG-2011 07:12:15
Obs noise = WATCH
Obs width = 1 [us]
Probe id = 2692
Recor gain = 12
Relaxation delay = 4 [s]
Scans = 16
Solute = CHLOROFORM-D
Spin get = 14 [Hz]
Spin lock 90 = 1 [us]
Spin lock 90 = 29 [dB]
Temp get = 24.2 [dC]
X90 = 11 [us]
X acq duration = 2.069292 [s]
X angle = 45 [deg]
X domain = 1H
X freq = 395.8825601 [MHz]
X offset = 5 [ppm]
X points = 16384
X prescans = 1
X pulse = 5.5 [us]
X resolution = 0.4832539 [Hz]
X sweep = 7.91759637 [kHz]
X1 noise = 10 [us]
X2 noise = WALTZ

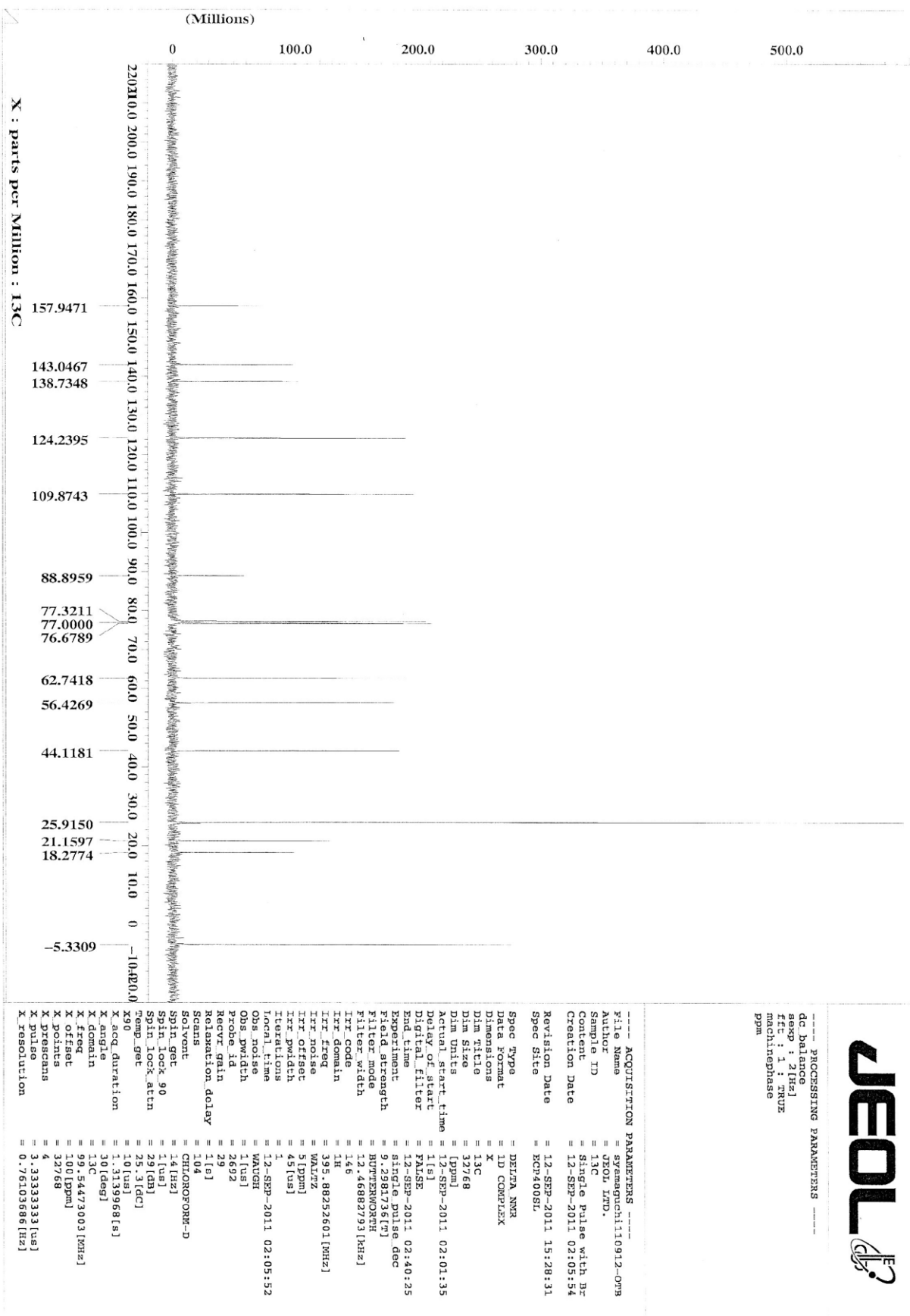


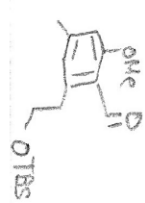






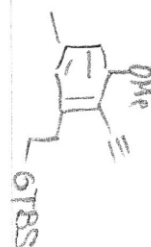






S14



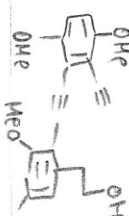
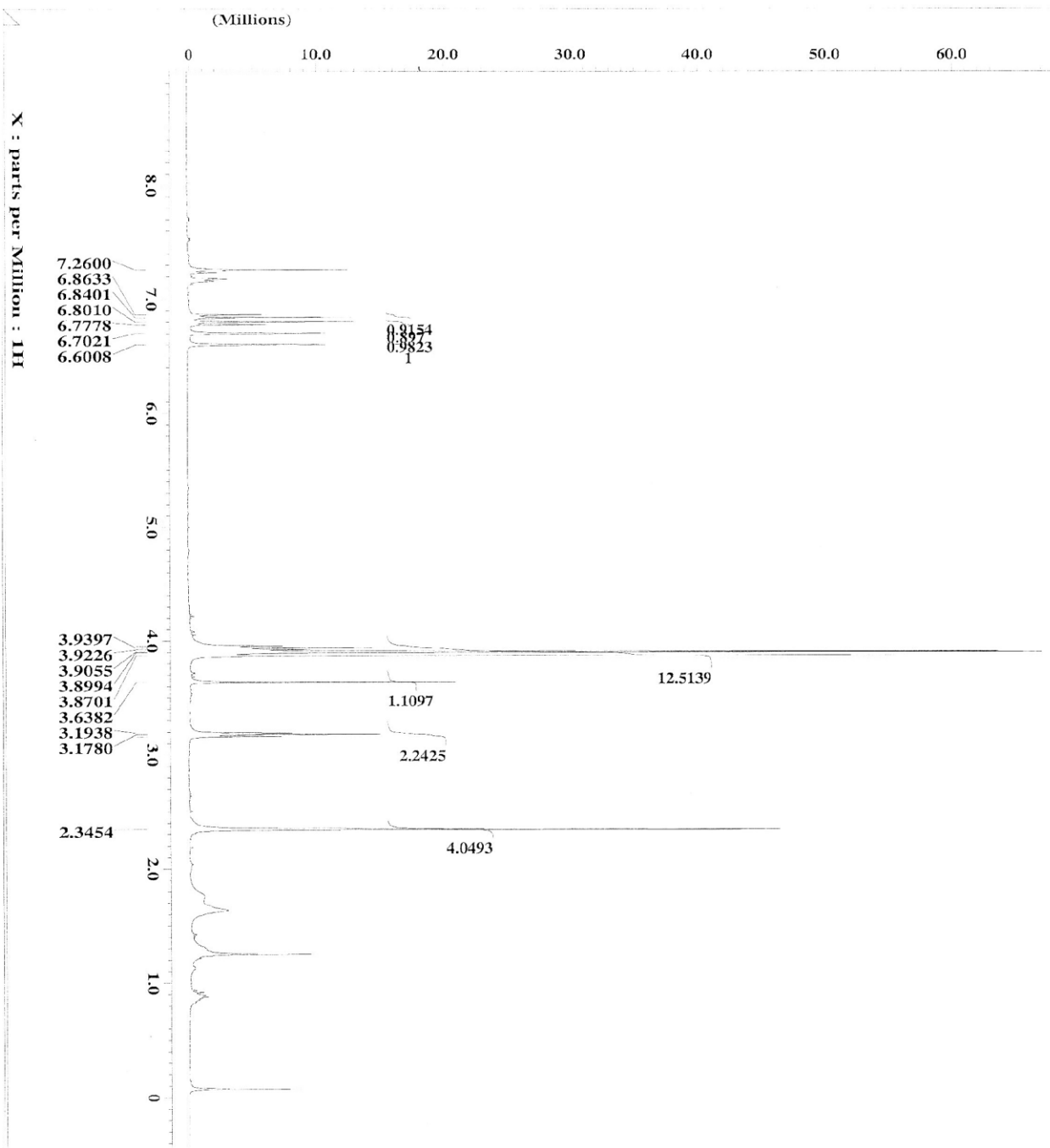


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Author         = JEDL LTD.
Sample ID      = a
Content        = Single Pulse Experim
Creation Date   = 29-SEP-2011 00:52:47
Revision Date   = 29-SEP-2011 14:17:18
Spec Site      = ECF400SI

Space Type      = DELTA NMR
Data Format      = 1D COMPLEX
Dimensions      = X
Dim 1 file      = 1H
Dim 1 size      = 16384
Dim 2 file      = [ppm]
Dim 2 size      = 29-SEP-2011 00:52:47
Dim Units       = Actual start time
Actual start time = 29-SEP-2011 00:52:47
Delay of start   = 1.18s
Digital filter   = FALS
End time        = 29-SEP-2011 00:52:45
Experiment       = single pulse-exp
Field strength   = 9.95617361T
F1dec mode       = BUTERWORTH
F1dec width      = 3.95682619 [kHz]
F2dec mode       = WALTZ
F2dec width      = 45 [Hz]
Iter code        = 0
Iter 1 file      = 1H
Iter 1 size      = 16384
Iter 1 width     = 29-SEP-2011 00:52:46
Iterations       = 1
Local time      = 1.18s
Obs noise       = 2692
Obs pwidth      = 4 [s]
Probe id        = 16
Recover gain     = 16
Relaxation delay = 16
Scans            = CHOROPFORM-D
Solvent          = 16Hz
Spin get        = 1.18s
Spin lock 90    = 291dHz
Spin lock 180   = 291dHz
Temp get        = 24.00 [C]
X axis duration  = 2.06529921 [s]
X angle          = 45 [deg]
X decoupling     = 1H
X domain         = 399.88292501 [MHz]
X freq          = 5 [ppm]
X offset         = 16384
X points         = 1
X prescans       = 5. [s]
X pulse          = 0.48325339 [Hz]
X resolution     = 7.91765637 [kHz]
X sweep          = 10 [Hz]
X1 file          = 1H
X1 noise         = WALTZ

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----- PROCESSING PARAMETERS -----
dc_balance
sexp : 0.2[Hz]
fit : 1 : TRUE
machinophase
ppm

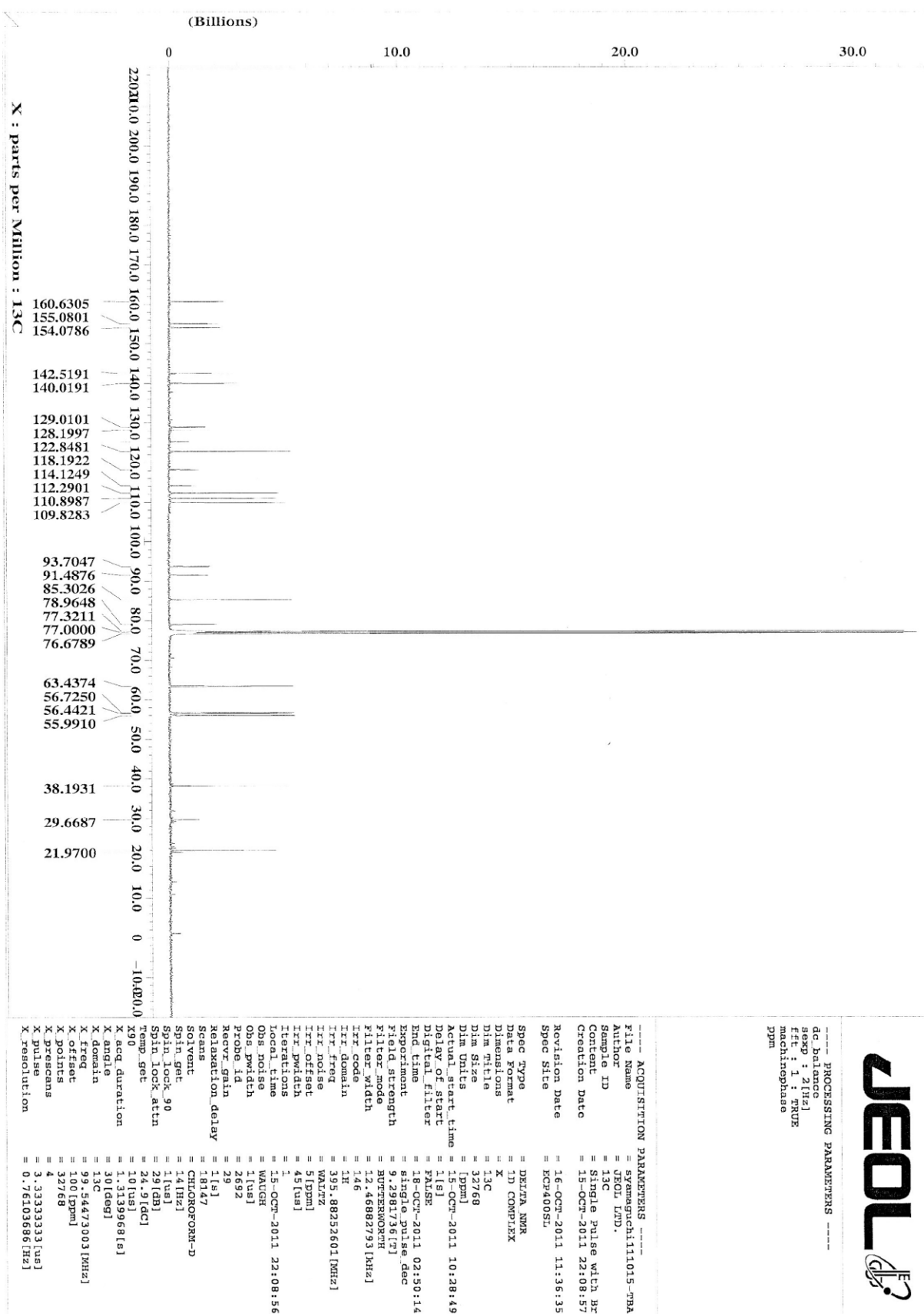
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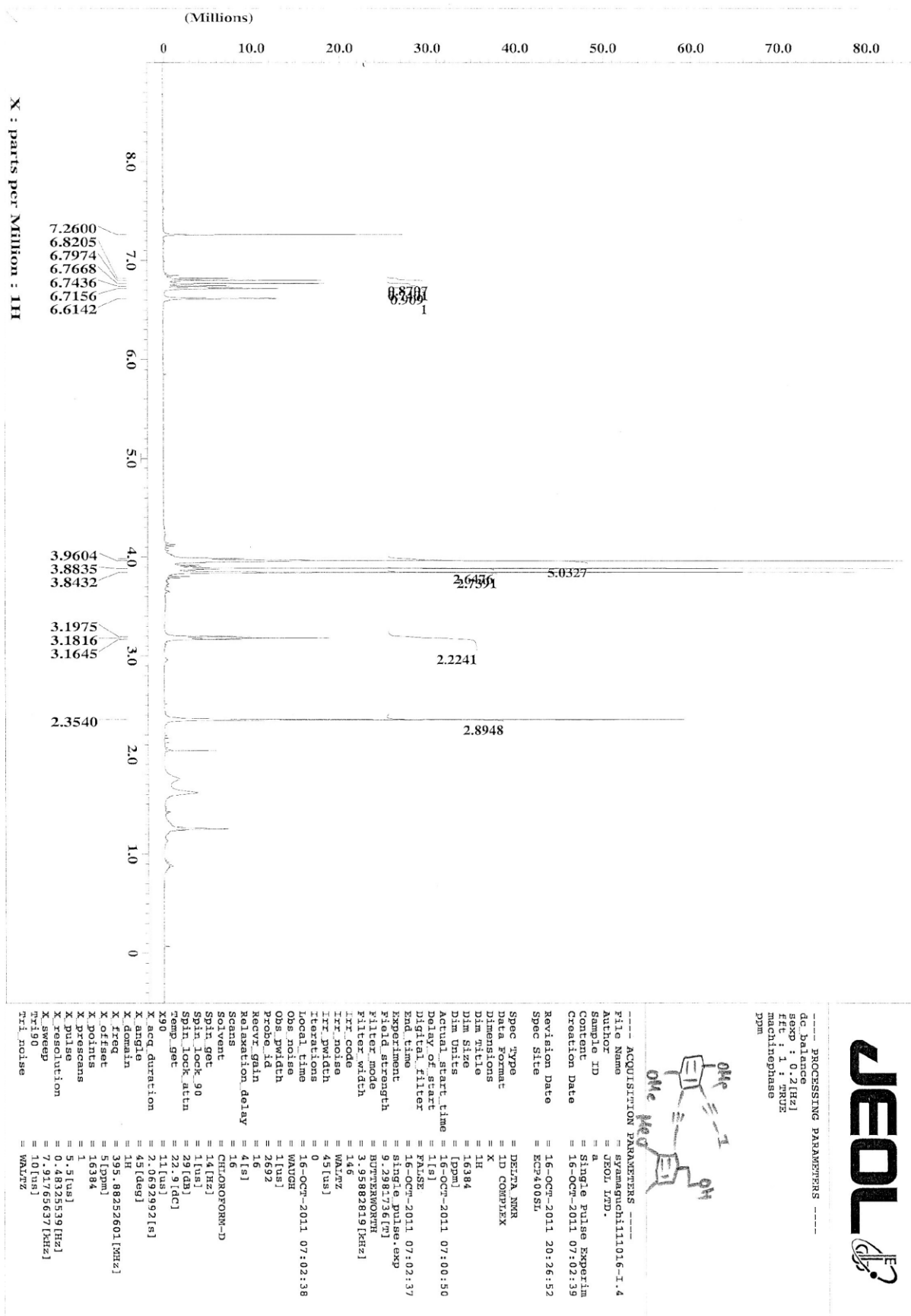
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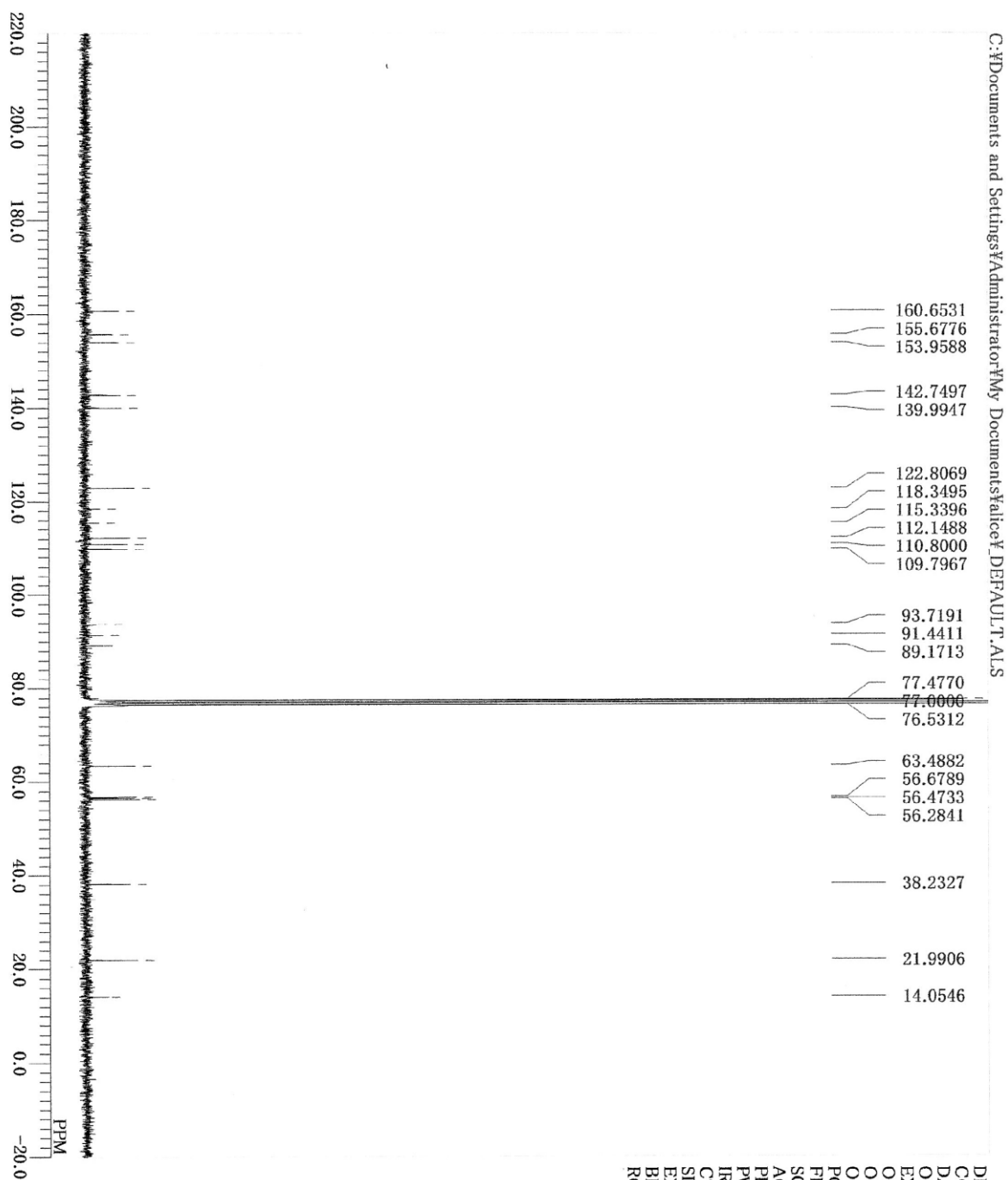
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Author             = SYMGENX-----TBA
Sample ID          = JEOL LVD.
Content            = a
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Revision Date      = 15-OCT-2011 22:22:25[UTC]
Spec Site          = ECH400US.

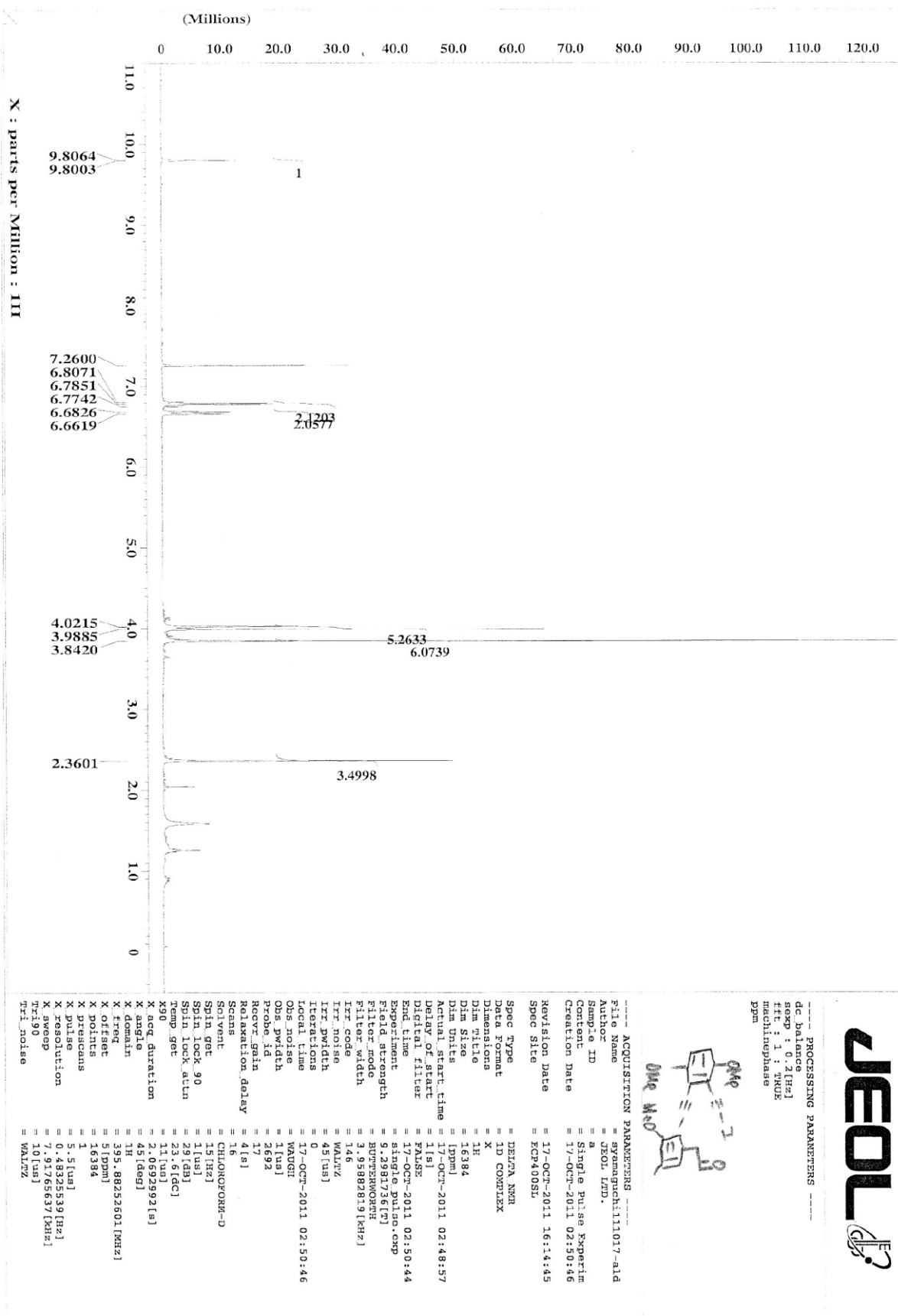
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Dim 2 size         = 1[1s]
Metadata of start  = PAISR
Digital filter      = 15-OCT-2011 08:58:28[UTC]
Experiment         = single pulse_exp
Field strength     = 9.26117361T
Pulse program      = HOTHERMORCH
P1                 = 3.958082815[kHz]
P1 width           = 146
P1 code            = WALTZ
P2                 = 45[us]
P2 width           = 4[us]
P2 code            = 0
Iterations         = 15-OCT-2011 08:58:30[UTC]
Local time        = WALTCH
Obs. noise         = 1[us]
Obs. width         = 2692
Probe id           = 15
Recvr gain         = 15
Relaxation delay   = 4[1s]
Scans              = 16
Solvent            = CHCl3/FORM-D
Spin get           = 161HzX
Spin lock 90       = 1[us]
Spin lock atten    = 291dcl
Temp get           = 241dcl
X acq. duration    = 2.06629921[s]
X angle            = 451deg
X domain           = 1H
X freq             = 395.88292601[kHz]
X offset           = 51ppm
X points           = 16384
X prescans         = 1
X pulse            = 5.5[us]
X resolution       = 0.48325933[Hz]
X sweep            = 101us
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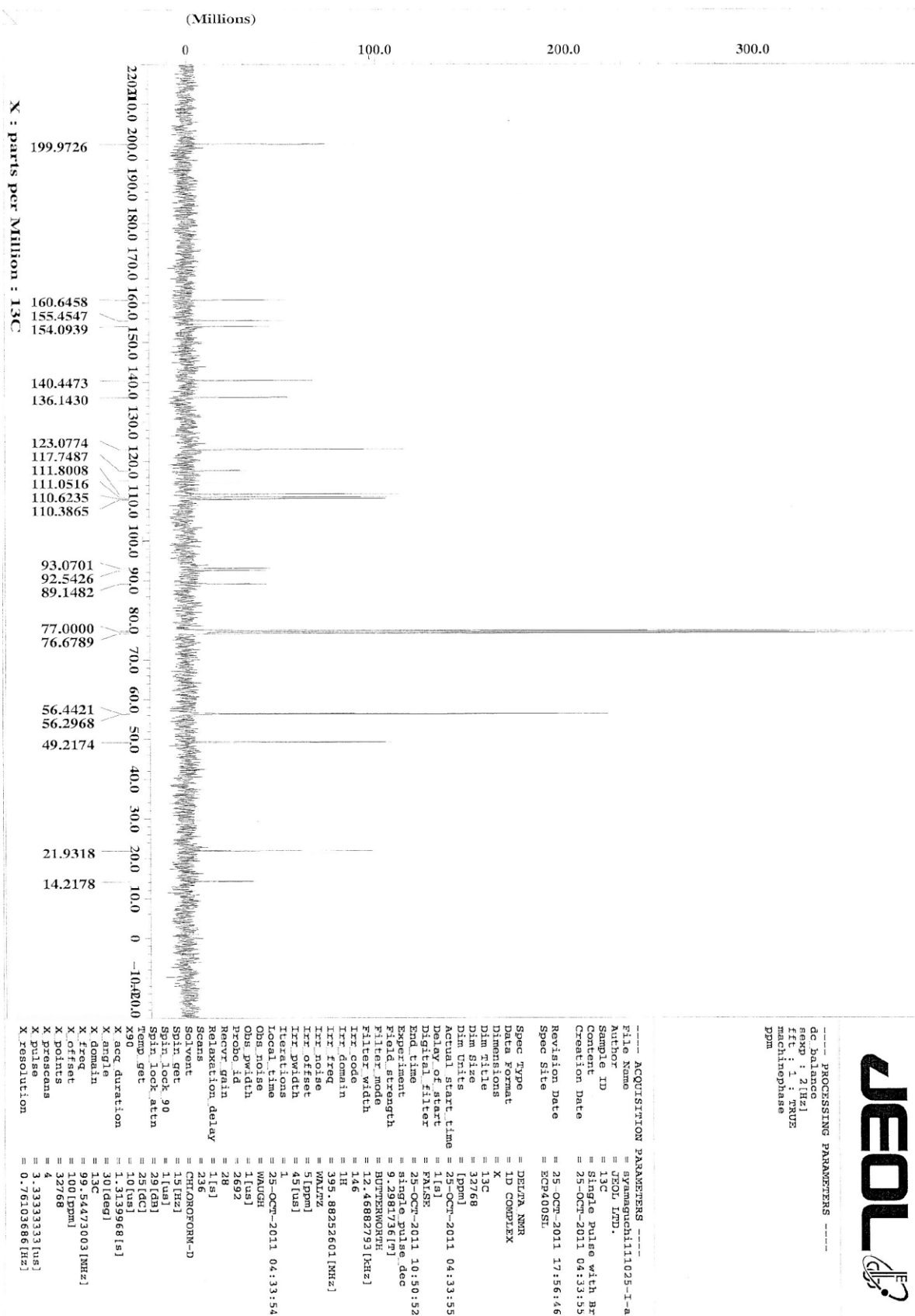


JEOL

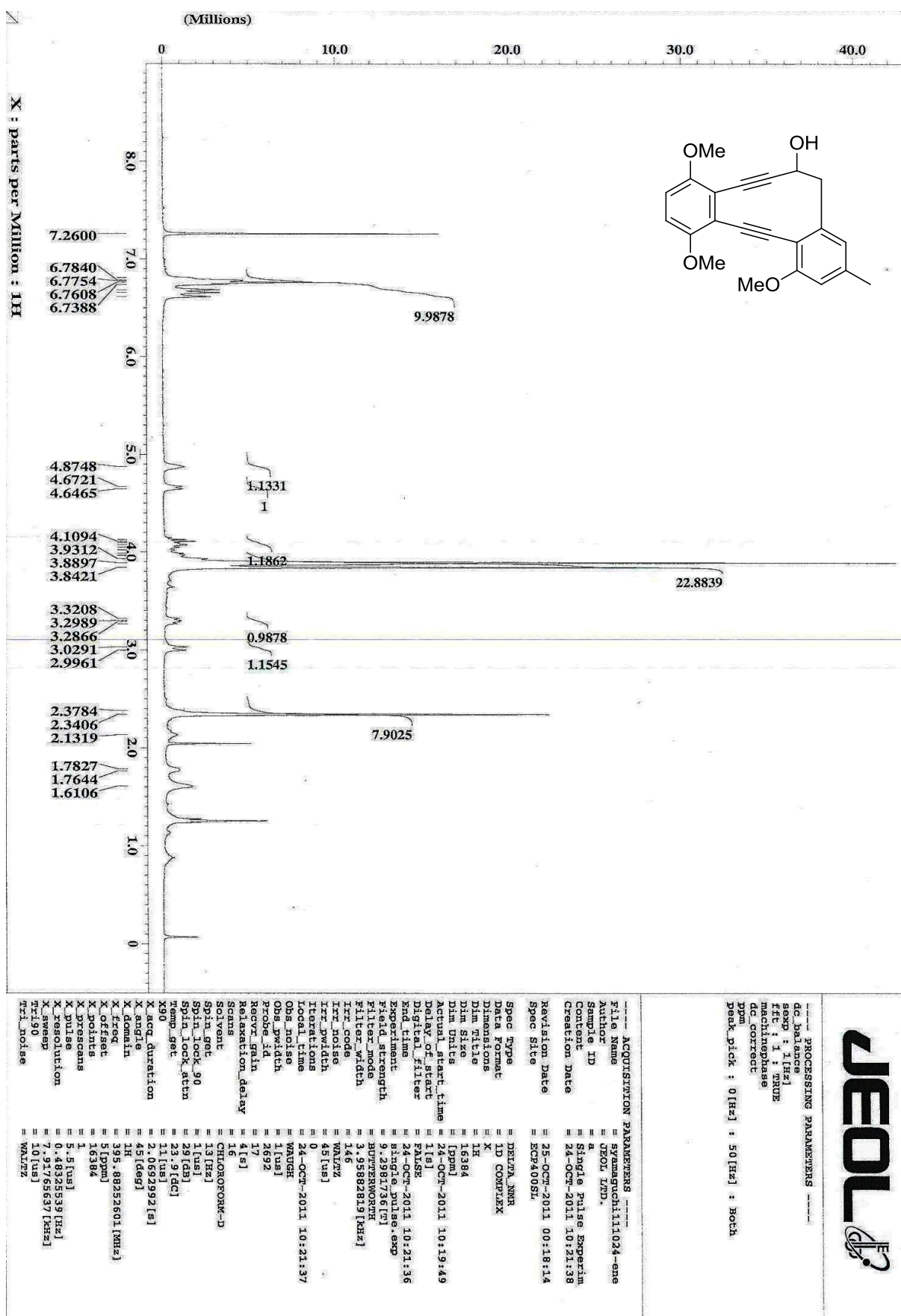








JEOL







S25

