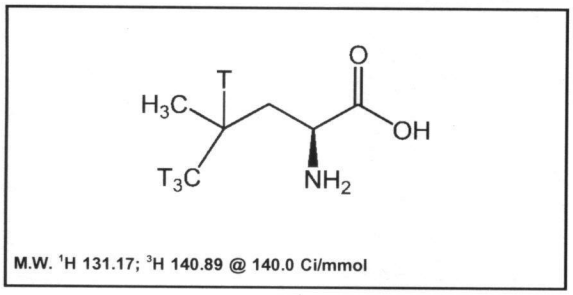
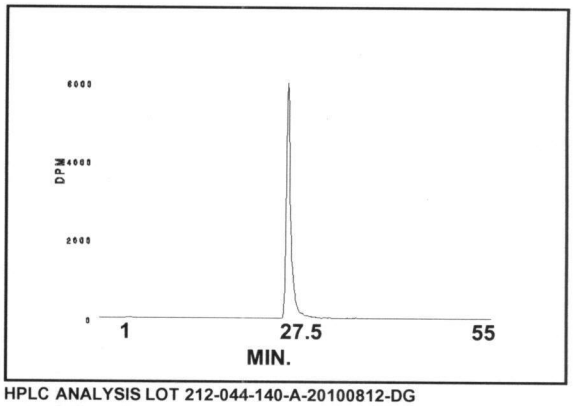
Product Data Sheet

MT-672E

L-Leucine, [4,5-^{3}H]-



M.W. ^{1}H 131.17; ^{3}H 140.89 @ 140.0 Ci/mmol



HPLC ANALYSIS LOT 212-044-140-A-20100812-DG
File Name: int61592 Date and Time: 12/8/2010 3:50:51 PM
Unit 6 Radio

Peak #	Area %	Time	Area
1	0.33	4.39670	89.90395
2	99.17	26.57330	27088.54860
3	0.12	28.64000	32.85980
4	0.08	29.18670	20.49255
5	0.31	31.67330	83.88203
Totals	100.00		27315.68693

Lot #: 212-044-140-A-20100812-DG

Specific Activity: 140.0 Ci/mmol

Concentration: 1.0 mCi/ml; 1.01 μg/ml

Packaged in: Ethanol : water (2 : 98) solution

Date of analysis: December 08, 2010

Radiochemical Purity: 99.1%

Stability and Storage Recommendation: The rate of decomposition is approximately 1%/month for the first six months after purification when stored at 0-5°C.

Product Warranty: Stated on the reverse side of this Product Data Sheet.

Caution: Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

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MT-672E

L-Leucine, [4,5-^{3}H]-

Lot 212-044-140-A-20100812-DG

A) All chromatograms were run using the HPLC method described on the Product Data Sheet.

Concentrations and volumes:

L-Leucine, [4,5-^{3}H]- concentration was 1.0 mCi/ml.

Volume of **L-Leucine, [4,5-^{3}H]-** injection was 1.0 µl.

B) Mass spectrometry – Positive mode

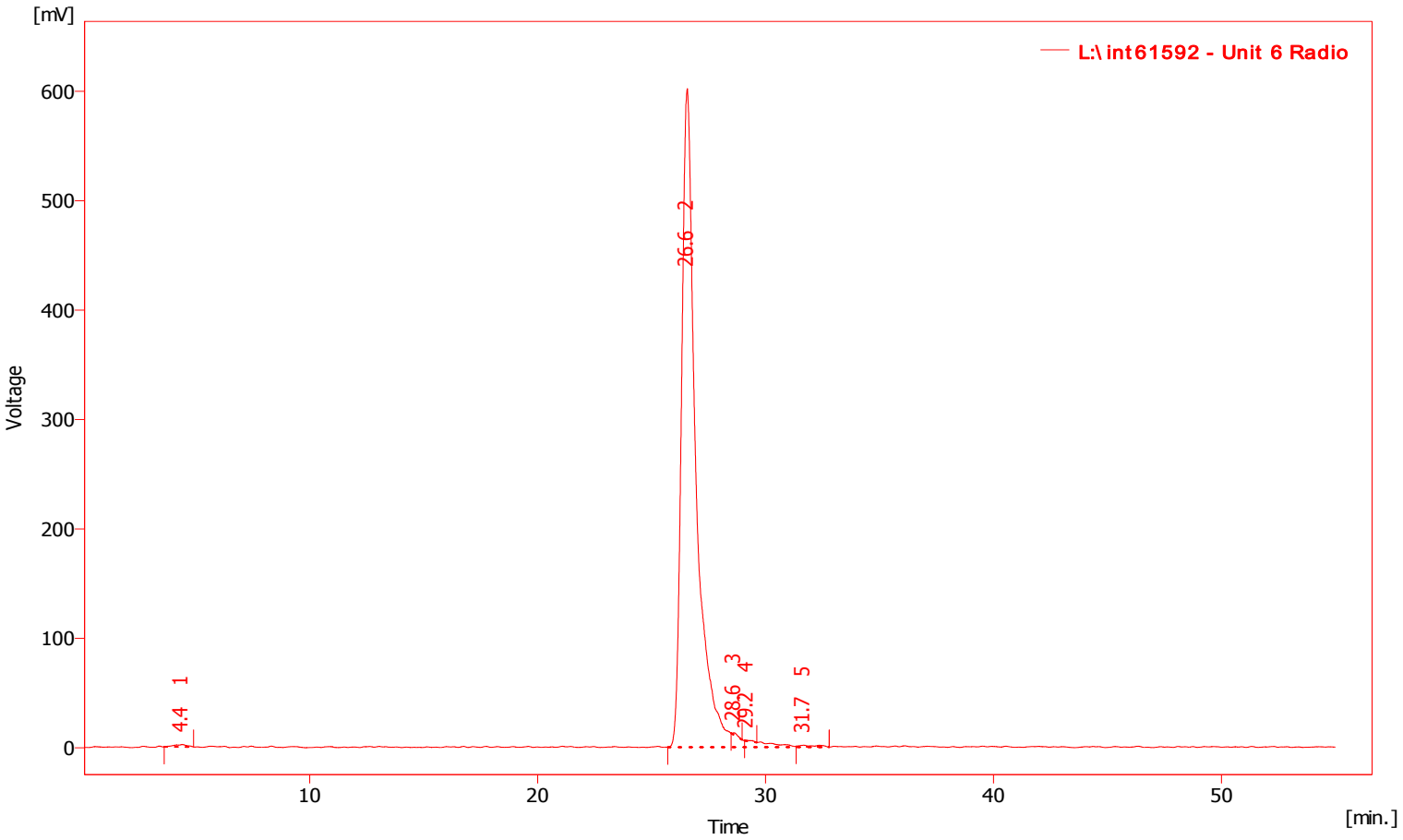
C) NMR

MT-672E
L-Leucine, [4,5-3H]-
Lot 212-044-140-A-20100812-DG

Chromatogram Info:

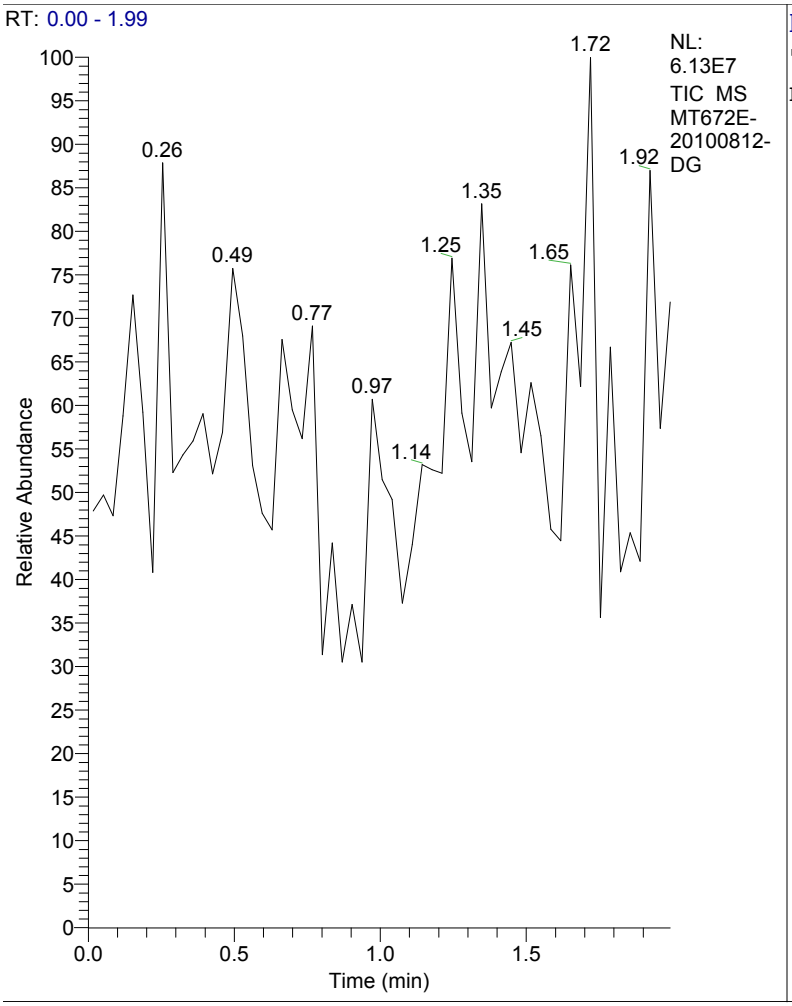
File Name	: L:\int61592	File Created	: 3/3/2014 4:18:50 PM
Origin	: Acquired, Acquisition started 12/8/2010 2:55:52 PM	Acquired Date	: 12/8/2010 3:50:51 PM
Project	: Test	By	: Administrator

Method	: Unit6-55minrun	By	: Administrator
Description	: Radiochemical trace of L-Leucine, [4,5-3H]- alone		
Created	: 6/30/2010 9:35 AM	Modified	: 3/3/2014 4:24 PM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int61592 - Unit 6 Radio)

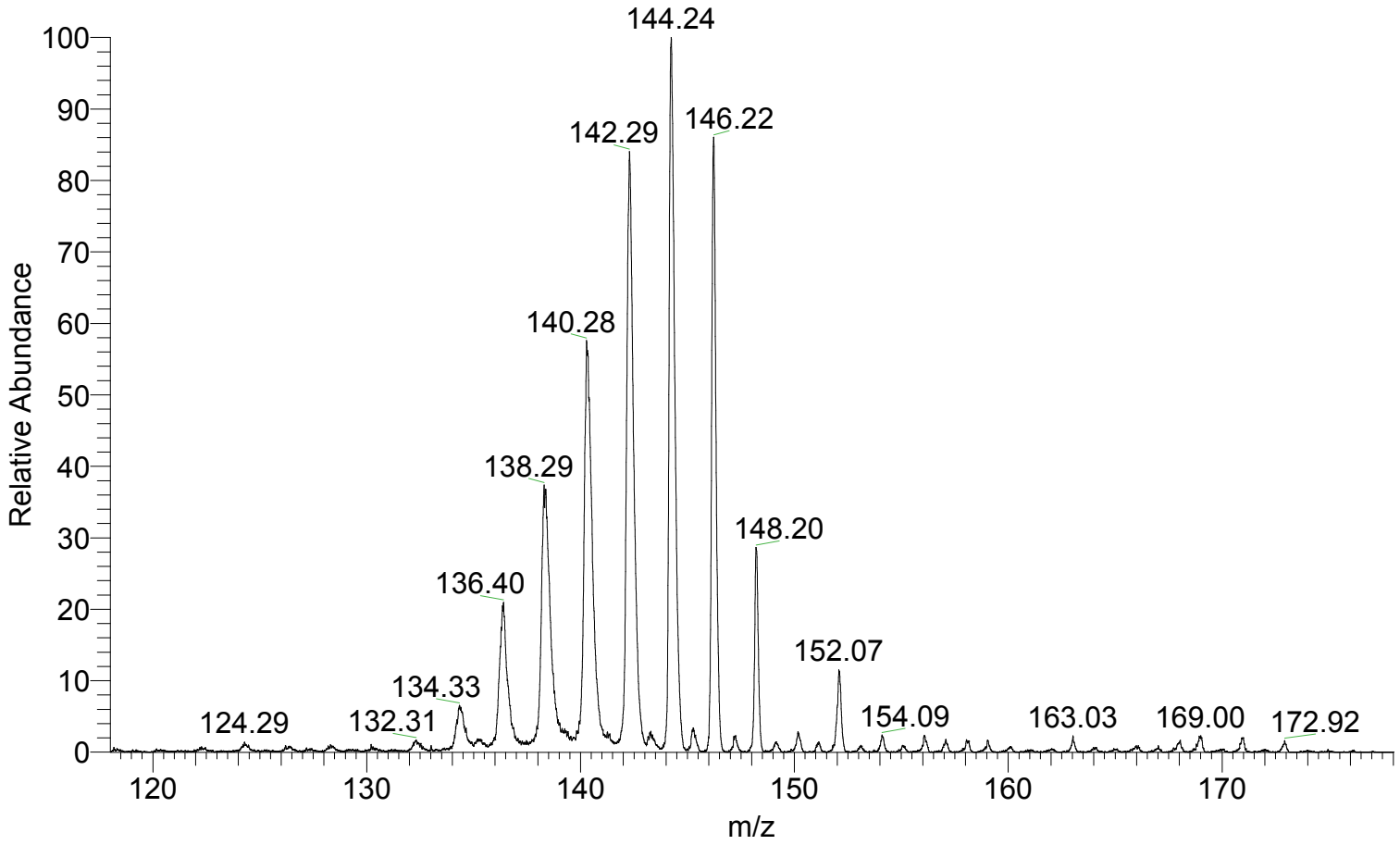
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		4.40	89.904	2.37	0.33	0.39	294.20	5883.99	0.83		
2		26.57	27088.549	602.11	99.17	98.85	11366.30	227325.94	4.11		22.0
3		28.64	32.860	2.36	0.12	0.39	88446.46	1768929.28	1.61		3.0
4		29.19	20.493	0.80	0.08	0.13	151206.18	3024123.53	2.44		1.6
5		31.67	83.882	1.49	0.31	0.25	38488.42	769768.46	2.22		5.3
		Total	27315.687	609.13	100.00	100.00					



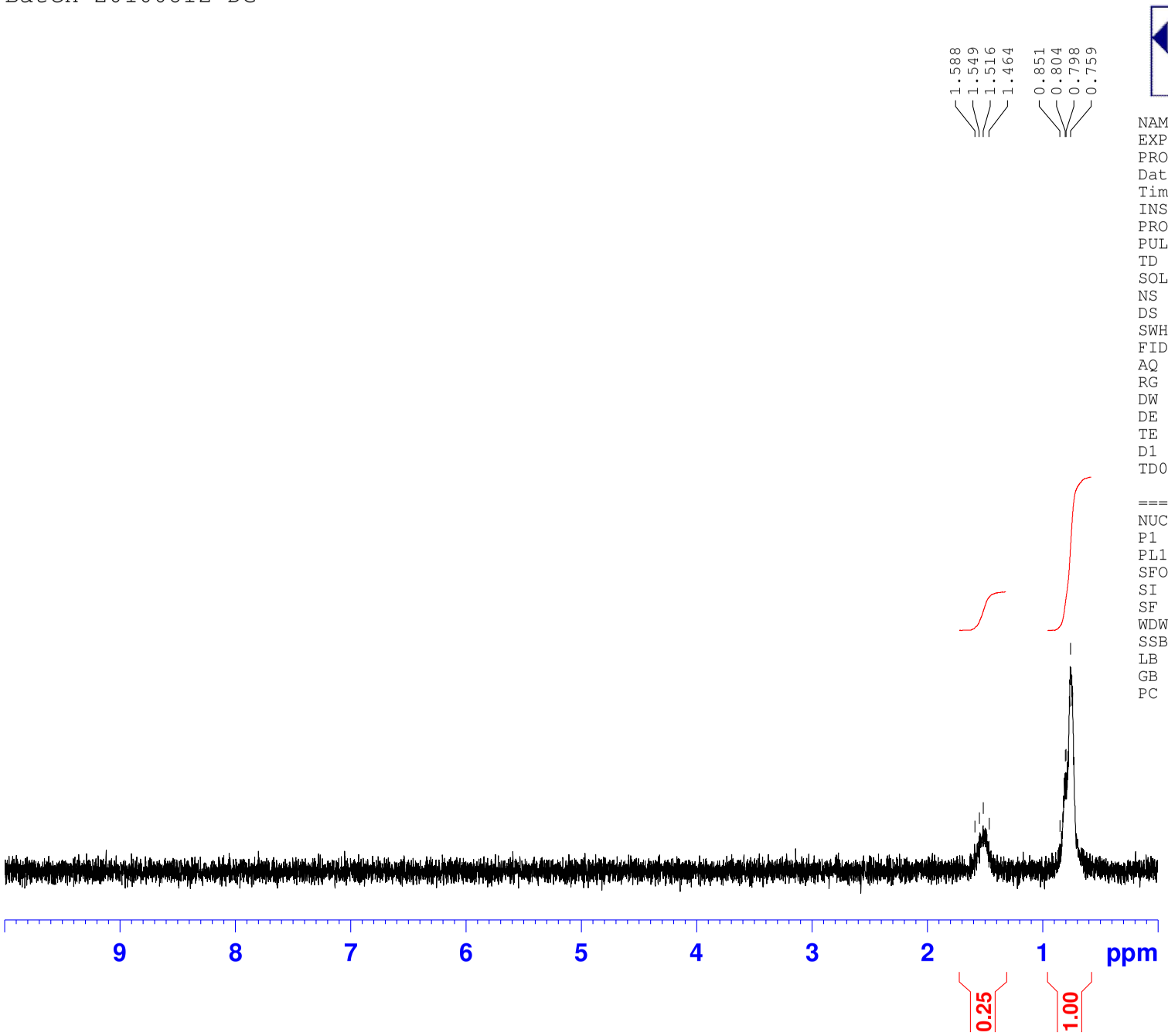
MT672E-20100812-DG#1-59 RT: 0.02-1.99 AV:
T: + p NSI Z ms [118.00-178.00]
m/z= 130.89-151.50

m/z	Intensity	Relative
131.28	32960.0	0.50
132.34	159209.7	2.42
134.37	681578.7	10.37
135.28	195865.8	2.98
136.40	1945554.6	29.61
137.19	138474.4	2.11
138.38	3804168.0	57.89
139.25	351521.2	5.35
140.37	5268162.5	80.17
141.22	308431.9	4.69
142.34	6570874.5	100.00
143.24	271685.1	4.13
144.30	6342095.5	96.52
145.25	199898.6	3.04
146.24	4168193.3	63.43
147.23	108803.4	1.66
148.23	1171748.5	17.83
149.13	78018.5	1.19
150.16	134966.8	2.05
151.11	63960.9	0.97

MT672E-20100812-DG #1-59 RT: 0.02-1.99 AV: 59 NL: 1.01E5
T: + p NSI Z ms [118.00-178.00]



MT672E 3H NMR in D2O
Batch 20100812-DG



NAME	MT672E-20100812-DG	
EXPNO	1	
PROCNO	1	
Date_	20101004	
Time	15.22	
INSTRUM	spect	
PROBHD	5 mm DUX 3H-1H	
PULPROG	zg	
TD	16384	
SOLVENT	D2O	
NS	5000	
DS	2	
SWH	6172.839	Hz
FIDRES	0.376760	Hz
AQ	1.3271540	sec
RG	46341	
DW	81.000	usec
DE	6.00	usec
TE	300.0	K
D1	2.00000000	sec
TD0	1	
======== CHANNEL f1 ========		
NUC1	3H	
P1	10.00	usec
PL1	2.00	dB
SFO1	320.1321857	MHz
SI	32768	
SF	320.1305850	MHz
WDW	no	
SSB	0	
LB	0.00	Hz
GB	0	
PC	1.00	