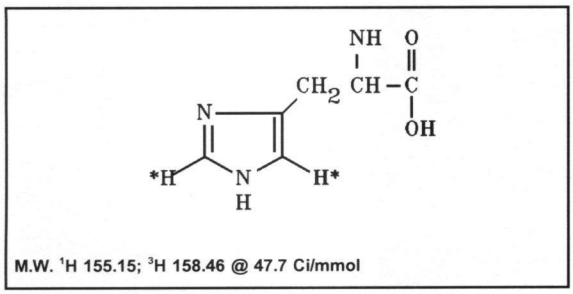
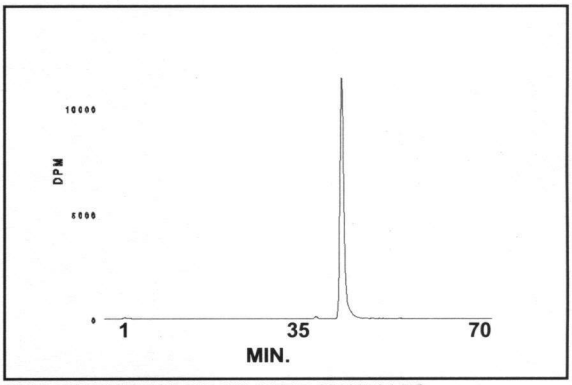
Product Data Sheet

MT-905

L-Histidine, [ring-2,5-^{3}H]-



M.W. ^{1}H 155.15; ^{3}H 158.46 @ 47.7 Ci/mmol



HPLC ANALYSIS LOT 212-051-0477-B-20100524-DG
File Name: int61702 Date and Time: 3/30/2011 12:05:51 P
Unit 6 Radio

Peak #	Area %	Time	Area
1	1.02	3.72000	623.38459
2	0.89	38.38000	542.22465
3	97.10	42.95000	59094.80596
4	0.34	47.45000	206.27332
5	0.65	53.33670	395.87492
Totals	100.00		60862.56344

Lot #: 212-051-0477-B-20100524-DG

Specific Activity: 47.7 Ci/mmol

Concentration: 1.0 mCi/ml; 3.32 μg/ml

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

Date of Analysis: March 30, 2011

Radiochemical Purity: 97.1%

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-905

L-Histidine, [2,5-^{3}H]-

Lot 212-051-0477-B-20100524-DG

A) The chromatogram was run using the HPLC method described on the Product Data Sheet.

Concentrations and volumes:

L-Histidine, [2,5-^{3}H]- concentration was 0.3 mCi/ml.

Volume of **L-Histidine, [2,5-^{3}H]-** alone injection was 3.0 µl.

B) Mass spectrometry – Positive mode

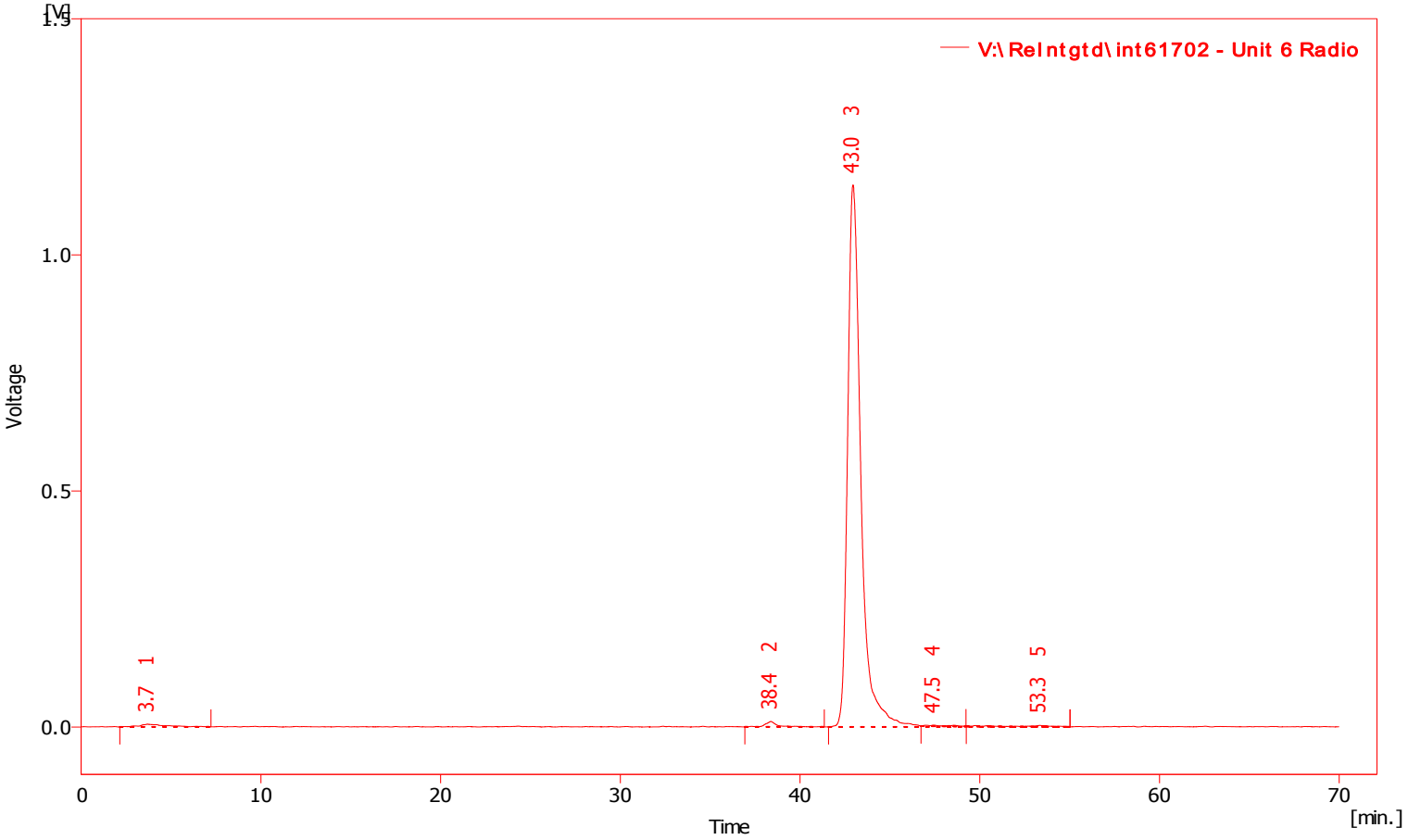
C) NMR

MT-905
L-Histidine, [2,5-3H]-
Lot 212-051-0477-B-20100524-DG

Chromatogram Info:

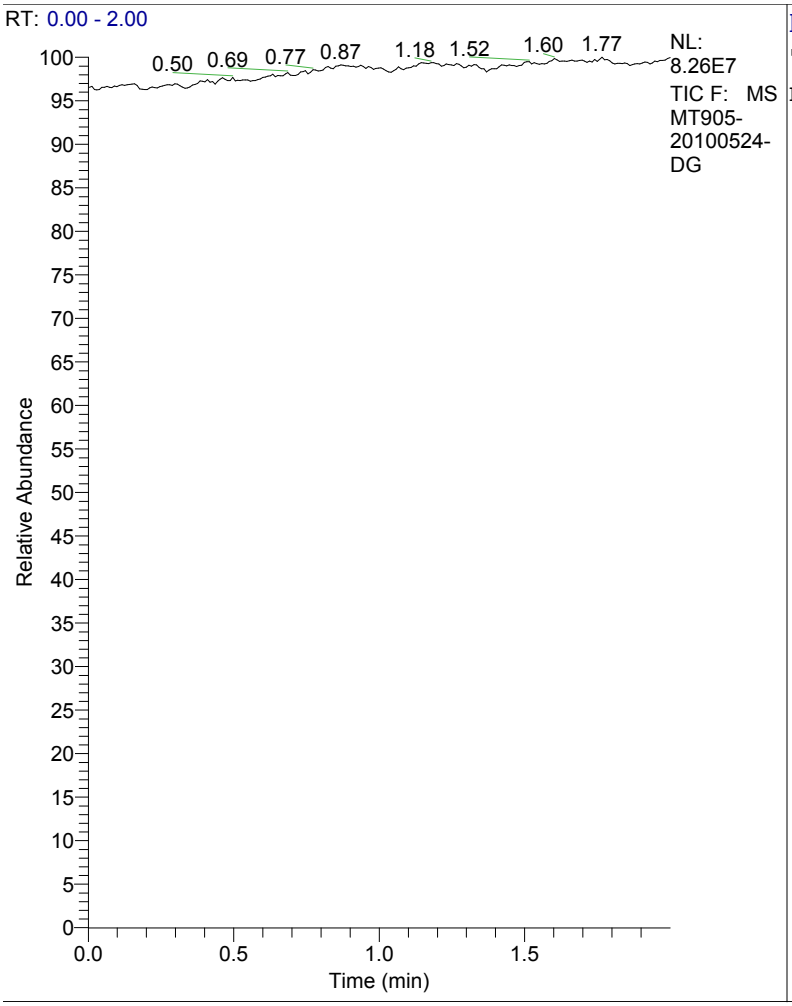
File Name	: V:\ReIntgtd\int61702	File Created	: 3/30/2011 1:39:26 PM
Origin	: Acquired, Acquisition started 3/30/2011 10:55:53 AM	Acquired Date	: 3/30/2011 12:05:51 PM
Project	: Test	By	: Administrator

Method	: Unit6-70minrun	By	: Administrator
Description	: Radiochemical trace of L-Histidine, [2,5-3H]-		
Created	: 7/14/2007 11:10 AM	Modified	: 3/19/2014 4:35 PM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - V:\ReIntgtd\int61702 - Unit 6 Radio)

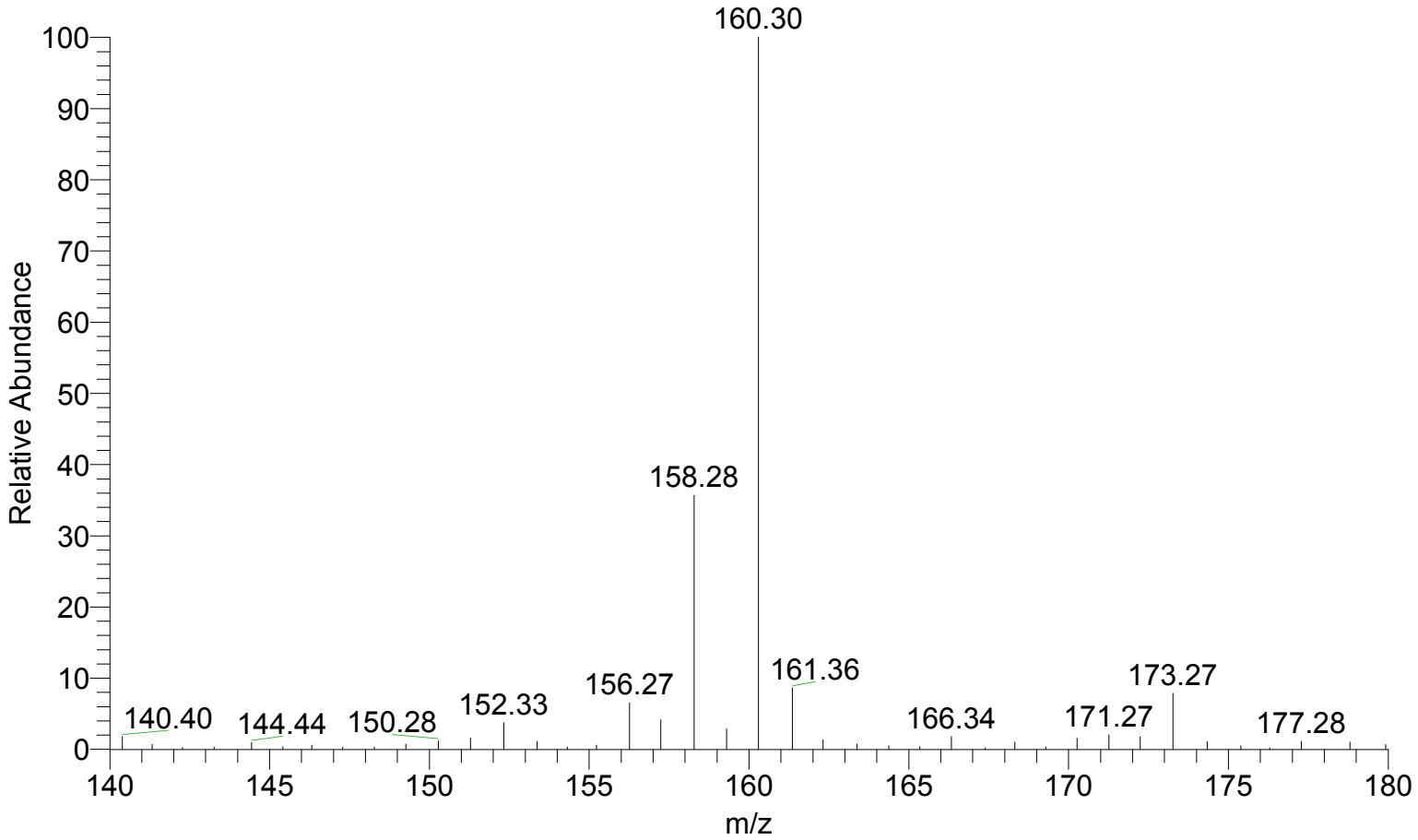
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		3.72	623.385	6.08	1.02	0.52	68.23	1364.63	1.23		
2		38.38	542.225	11.63	0.89	0.99	26022.18	520443.57	1.66		25.2
3		42.95	59094.806	1148.13	97.10	98.03	19353.77	387075.44	5.02		4.2
4		47.45	206.273	2.35	0.34	0.20	18252.46	365049.15	1.72		3.4
5		53.34	395.875	3.07	0.65	0.26	27526.58	550531.66	0.70		4.4
		Total	60862.563	1171.25	100.00	100.00					



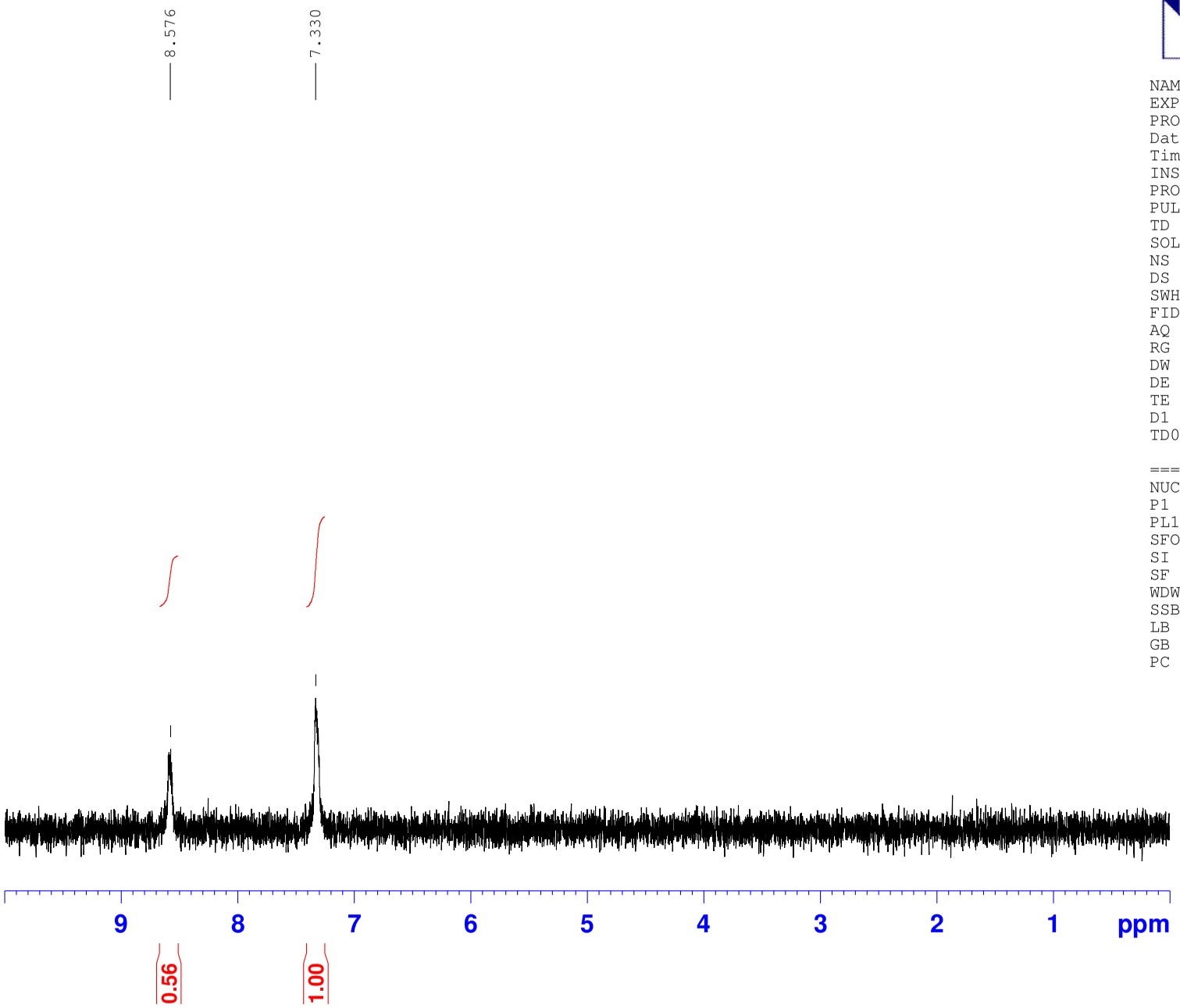
MT905-20100524-DG#1-232 RT: 0.00-2.00 AV:
T: + c Q3MS [140.00-180.00]
m/z= 154.11-165.43

m/z	Intensity	Relative
154.31	128246.9	0.31
155.23	226260.7	0.55
156.27	2687063.7	6.47
157.24	1709515.5	4.12
158.28	14804072.2	35.66
159.30	1179805.6	2.84
160.30	41514892.7	100.00
161.36	3570412.0	8.60
162.32	536232.6	1.29
163.37	284952.4	0.69
164.38	193912.7	0.47
165.34	145077.7	0.35

MT905-20100524-DG #1-232 RT: 0.00-2.00 AV: 232 NL: 4.15E7
T: + c Q3MS [140.00-180.00]



MT905 3H NMR in D2O
Batch 20100524-DG



NAME	MT905-20100524-DG	
EXPNO	3	
PROCNO	1	
Date_	20110111	
Time	13.40	
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	