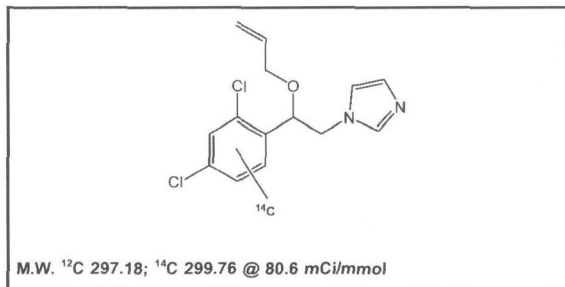




Product Data Sheet

MC-2418

Imazalil, [dichlorophenyl ring-¹⁴C(U)]-



Lot #: 198-099-0806-A-20110502-DR

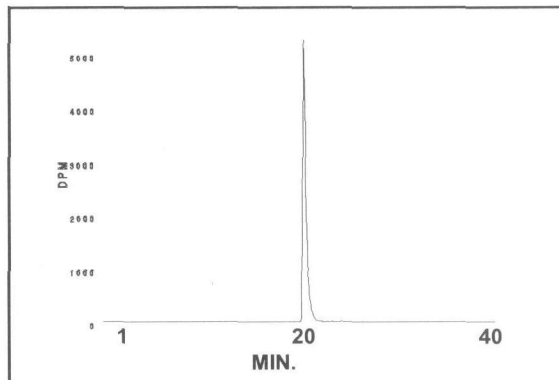
Specific Activity: 80.6 mCi/mmol

Concentration: 1.0 mCi/ml; 3.72 mg/ml

Packaged in: Ethanol solution

Date of Analysis: May 09, 2011

Radiochemical Purity: 99.9%



Peak #	Area %	Time	Area
1	99.97	20.47000	12759.21756
2	0.03	22.85670	3.63851
Totals	100.00		12762.85607

Storage Recommendation: Store at -20°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.

MC-2418

Imazalil, [dichlorophenyl ring-¹⁴C(U)]-

Lot 198-099-0806-A-20110502-DR

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

Concentrations and volumes:

Standard solution concentration was 1.0 mg/ml.

Imazalil, [dichlorophenyl ring-¹⁴C(U)]- concentration was 0.1 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of **Imazalil, [dichlorophenyl ring-¹⁴C(U)]-** alone injection was 1.0 µl.

Co-injection solution consisted of 0.5 µl **Imazalil, [dichlorophenyl ring-¹⁴C(U)]-** + 0.5 µl standard.

Volume of co-injection was 1.0 µl.

Volume of blank injection was 1.0 µl.

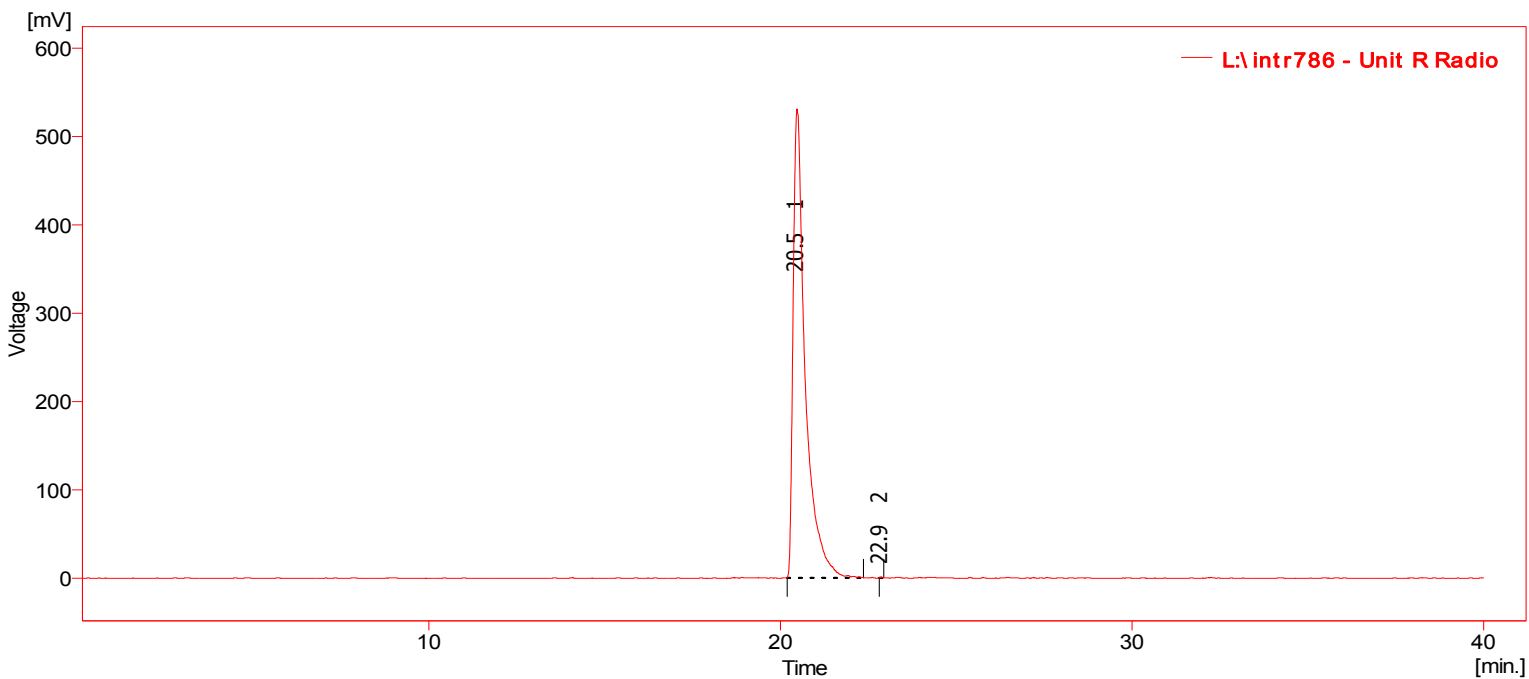
B) Mass spectrometry - Positive mode

C) NMR

MC-2418
Imazalil, [dichlorophenyl ring-14C(U)]-
Lot 198-099-0806-A-20110502-DR

Chromatogram Info:

File Name	: L:\intr786	File Created	: 5/28/2014 8:31:24 AM
Origin	: Acquired, Acquisition started 5/9/2011 3:33:35 PM	Acquired Date	: 5/9/2011 4:13:35 PM
Project	: Work1	By	: Lab
Method	: Imazalil	By	: Lab
Description	: Radiochemical trace of 14C material alone	Modified	: 5/28/2014 8:39 AM
Created	: 5/6/2011 9:54 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



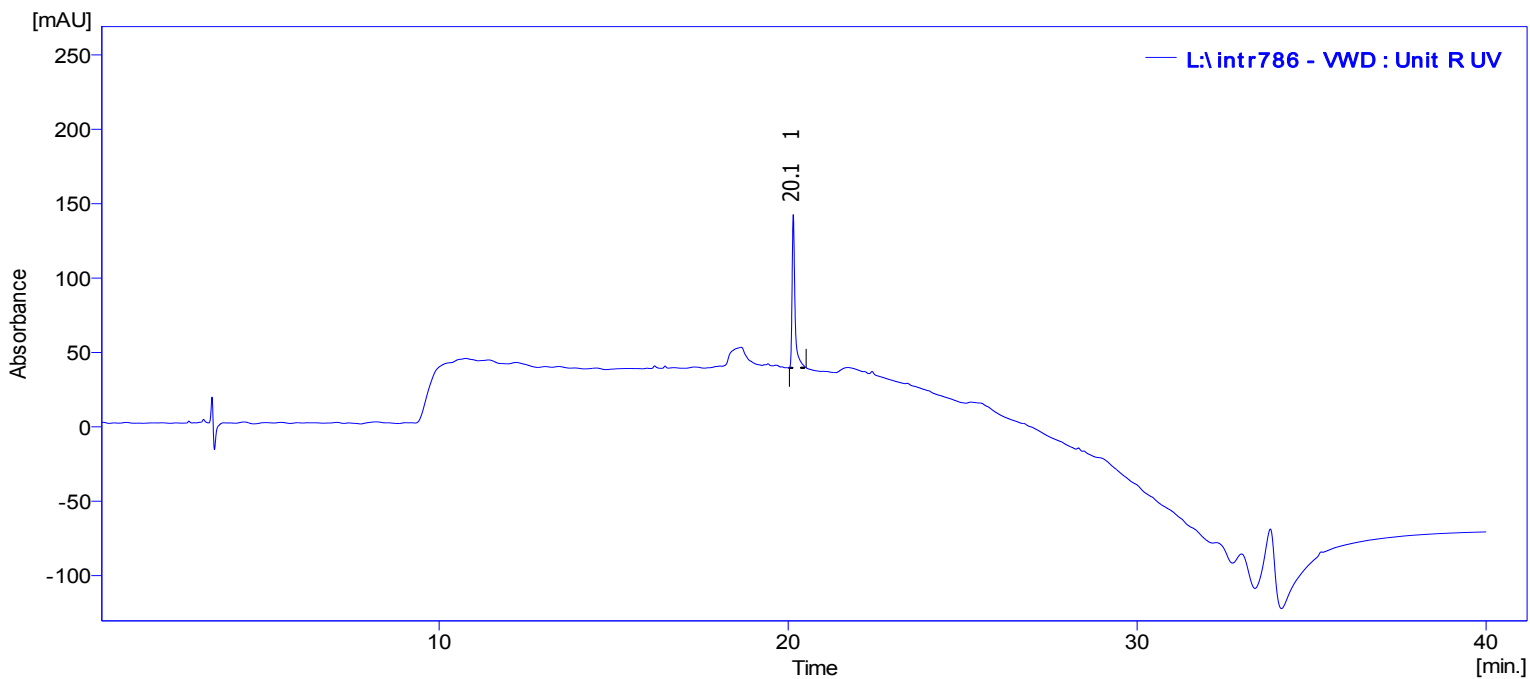
Result Table (Uncal - L:\intr786 - Unit R Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	20.47	12759.218	530.89	99.97	99.8	0.32	22205	444094		2.34	
2	22.86	3.639	1.02	0.03	0.2	0.03	4070034	81400690	8.05	1.38	
Total		12762.856	531.90	100.00	100.0						

MC-2418
Imazalil, [dichlorophenyl ring-14C(U)]-
Lot 198-099-0806-A-20110502-DR

Chromatogram Info:

File Name : L:\intr786 File Created : 5/28/2014 8:31:24 AM
 Origin : Acquired, Acquisition started 5/9/2011 3:33:35 PM Acquired Date : 5/9/2011 4:13:35 PM
 Project : Work1 By : Lab
 Method : Imazalil By : Lab
 Description : UV trace of 14C material alone
 Created : 5/6/2011 9:54 AM Modified : 5/28/2014 8:40 AM
 Column : Detection : UV 220nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



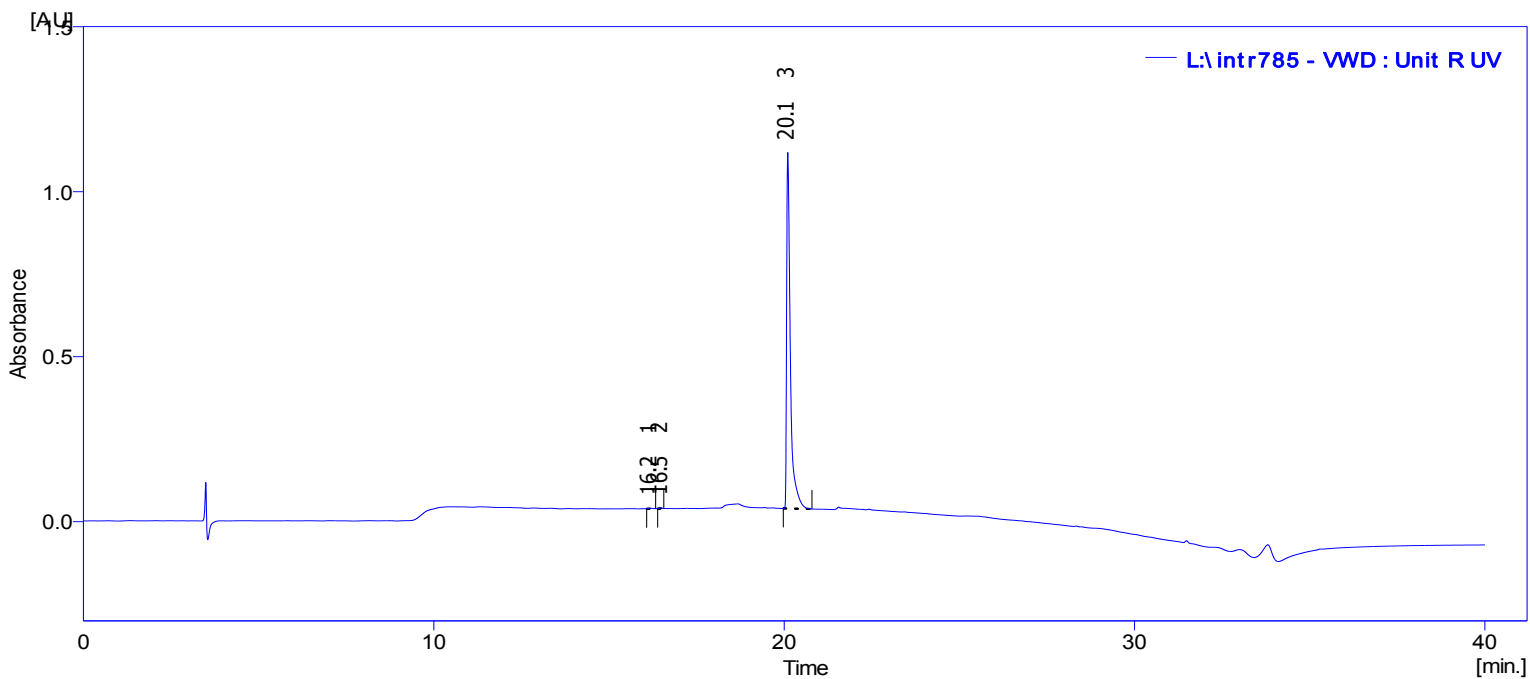
Result Table (Uncal - L:\intr786 - VWD : Unit R UV)

	Compound Name	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		20.15	598.931	102.95	100.00	100.0	0.08	350798	7015951		1.83	
		Total	598.931	102.95	100.00	100.0						

MC-2418
Imazalil, [dichlorophenyl ring-14C(U)]-
Lot 198-099-0806-A-20110502-DR

Chromatogram Info:

File Name : L:\intr785 File Created : 5/28/2014 8:31:24 AM
 Origin : Acquired, Acquisition started 5/9/2011 1:47:08 PM Acquired Date : 5/9/2011 2:27:09 PM
 Project : Work1 By : Lab
 Method : Imazalil By : Lab
 Description : UV trace of standard material alone
 Created : 5/6/2011 9:54 AM Modified : 5/28/2014 8:45 AM
 Column : Detection : UV 220nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



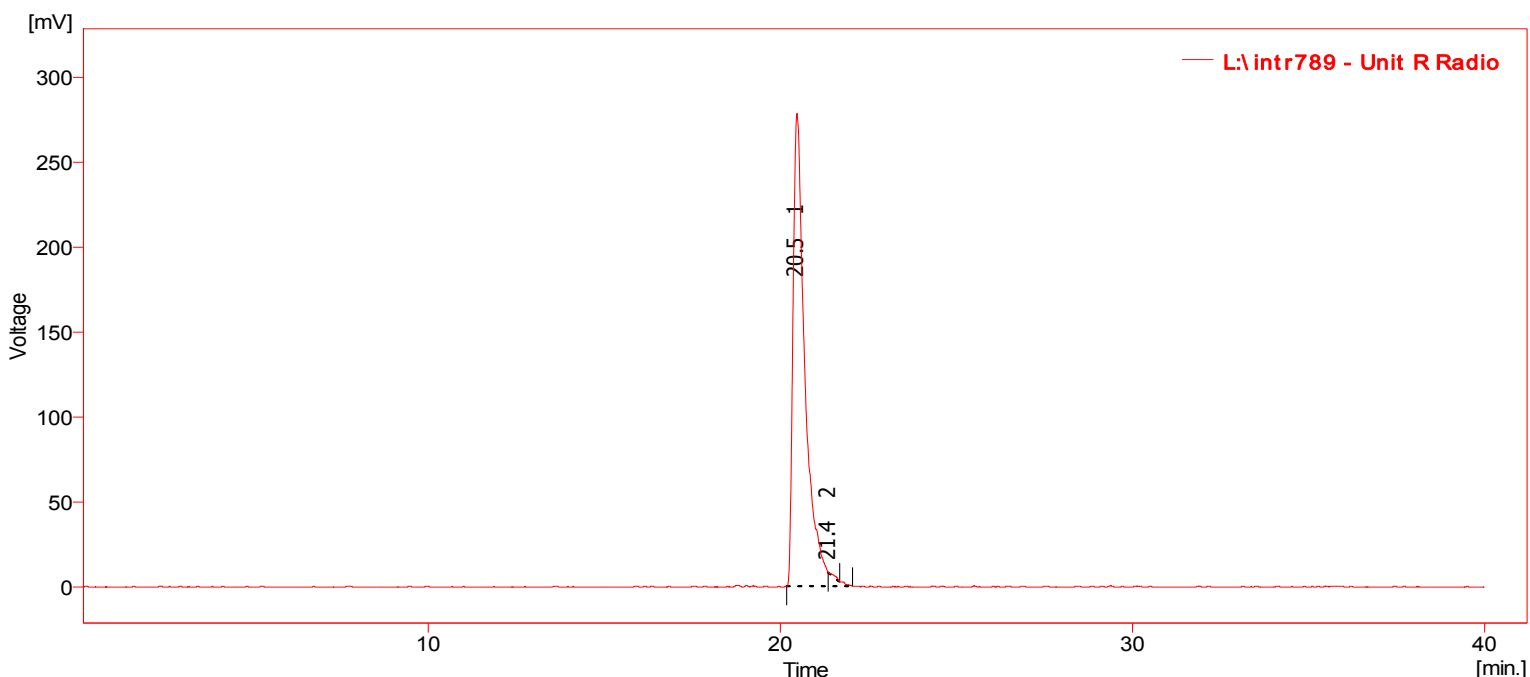
Result Table (Uncal - L:\intr785 - VWD : Unit R UV)

	Compound Name	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		16.18	10.698	1.84	0.13	0.2	0.09	179927	3598550		1.33	
2		16.48	10.915	2.62	0.14	0.2	0.07	326075	6521491	2.27	1.06	
3		20.10	8029.955	1078.84	99.73	99.6	0.10	205713	4114269	24.81	2.62	
	Total		8051.569	1083.29	100.00	100.0						

MC-2418
Imazalil, [dichlorophenyl ring-14C(U)]-
Lot 198-099-0806-A-20110502-DR

Chromatogram Info:

File Name	: L:\intr789	File Created	: 5/28/2014 8:31:24 AM
Origin	: Acquired, Acquisition started 5/10/2011 10:43:58 AM	Acquired Date	: 5/10/2011 11:23:59 AM
Project	: Work1	By	: Lab
Method	: Imazalil	By	: Lab
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 5/6/2011 9:54 AM	Modified	: 5/28/2014 8:43 AM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intr789 - Unit R Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	20.48	6691.726	278.24	99.74	99.8	0.33	20906	418120		3.31	
2	21.38	17.582	0.46	0.26	0.2	0.04	1583218	31664351	2.87	6.06	
Total		6709.308	278.70	100.00	100.0						

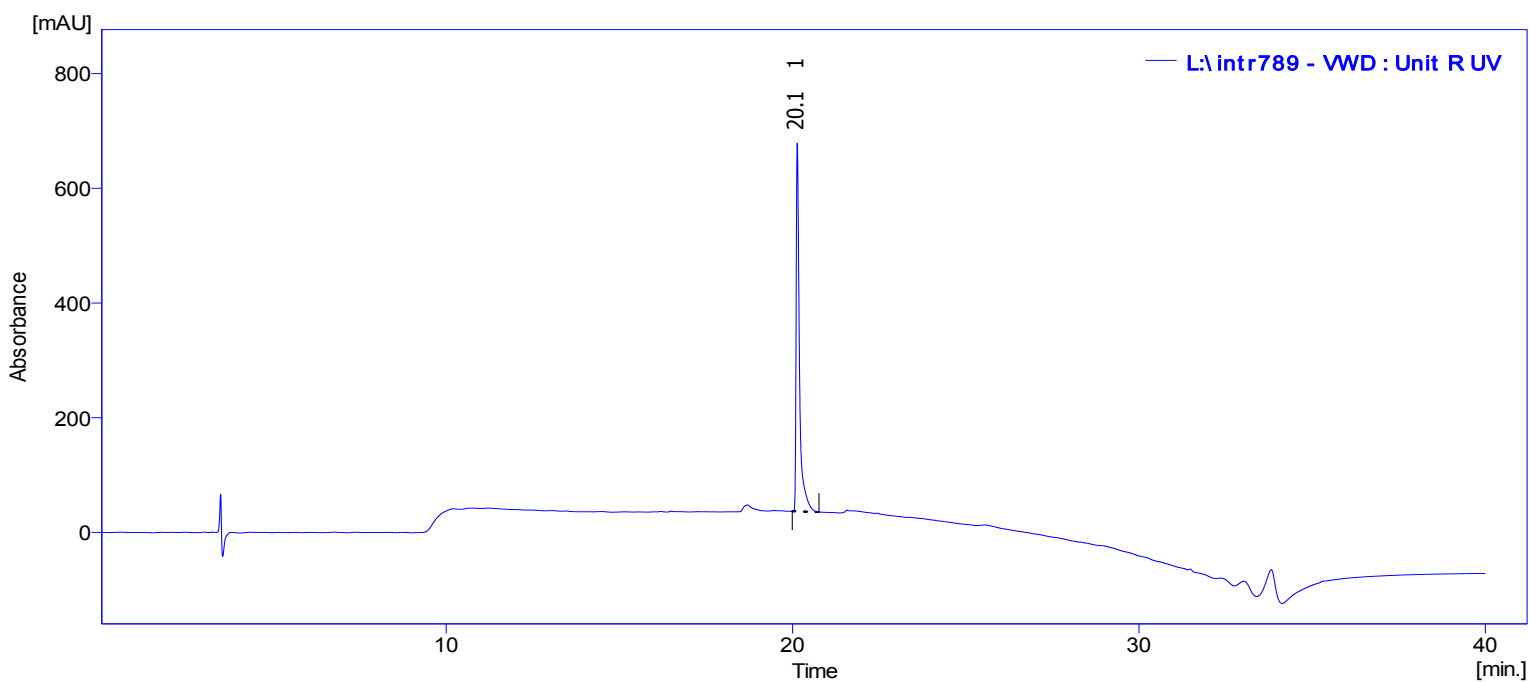
MC-2418
Imazalil, [dichlorophenyl ring-14C(U)]-
Lot 198-099-0806-A-20110502-DR

Chromatogram Info:

File Name : L:\intr789 File Created : 5/28/2014 8:31:24 AM
 Origin : Acquired, Acquisition started 5/10/2011 10:43:58 AM Acquired Date : 5/10/2011 11:23:59 AM
 Project : Work1 By : Lab

Method : Imazalil By : Lab
 Description : UV trace of 14C material co-injected with standard
 Created : 5/6/2011 9:54 AM Modified : 5/28/2014 8:44 AM

Column : Detection : UV 220nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



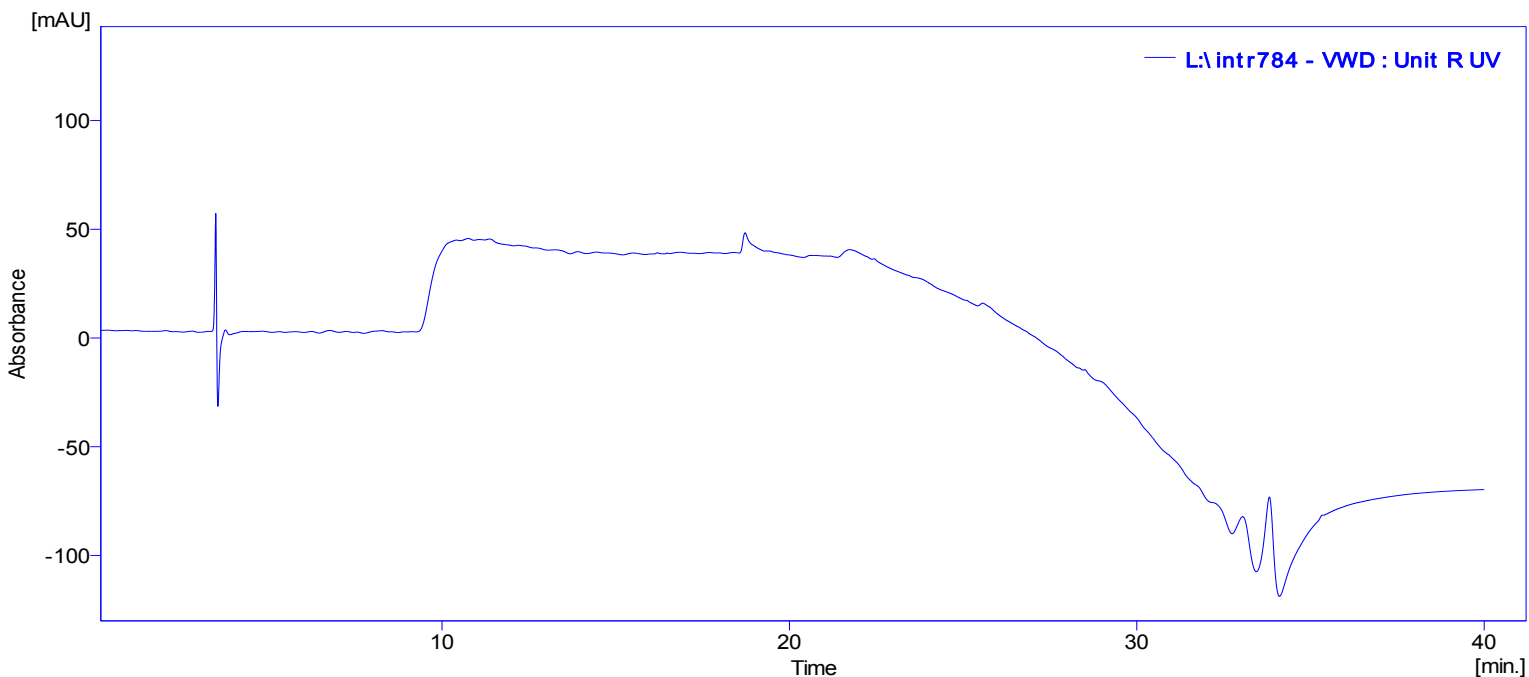
Result Table (Uncal - L:\intr789 - VWD : Unit R UV)

	Compound Name	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		20.14	4284.112	642.26	100.00	100.0	0.09	278781	5575611		2.29	
		Total	4284.112	642.26	100.00	100.0						

MC-2418
Imazalil, [dichlorophenyl ring-14C(U)]-
Lot 198-099-0806-A-20110502-DR

Chromatogram Info:

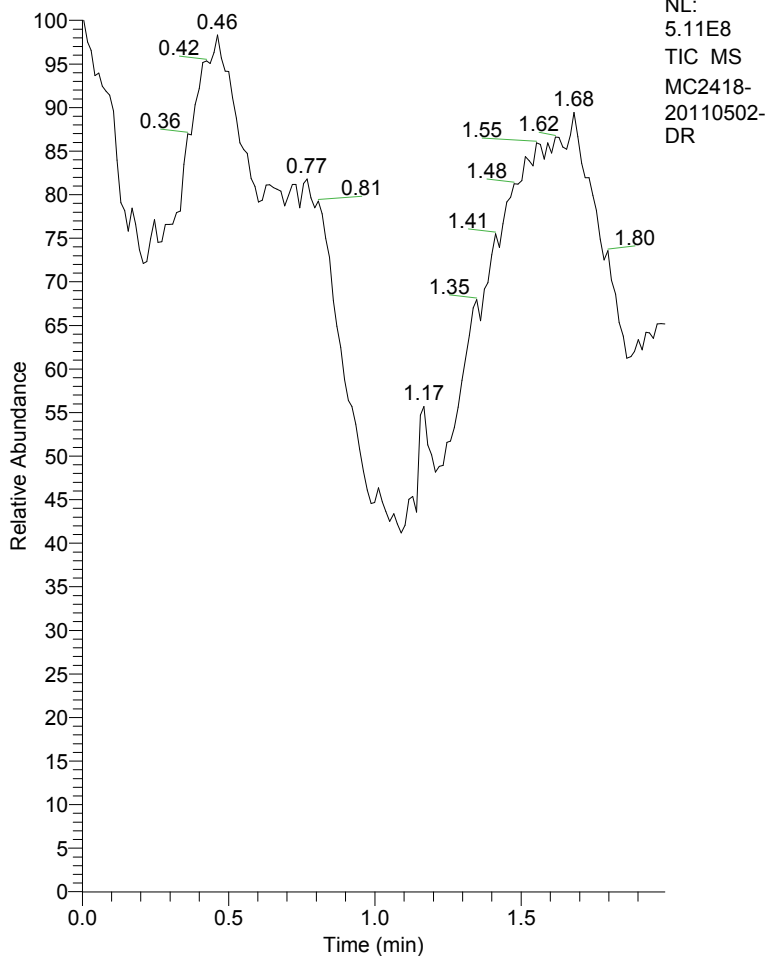
File Name	: L:\intr784	File Created	: 5/28/2014 8:31:24 AM
Origin	: Acquired, Acquisition started 5/9/2011 11:54:31 AM	Acquired Date	: 5/9/2011 12:34:32 PM
Project	: Work1	By	: Lab
Method	: Imazalil	By	: Lab
Description	: UV trace of blank injection		
Created	: 5/6/2011 9:54 AM	Modified	: 5/28/2014 8:46 AM
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intr784 - VWD : Unit R UV)

Compound Name	Reten. Time [min]	Area [mAU.s]	Height [mAU]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

RT: 0.00 - 1.99



MC2418-20110502-DR#1-156 RT: 0.01-1.99

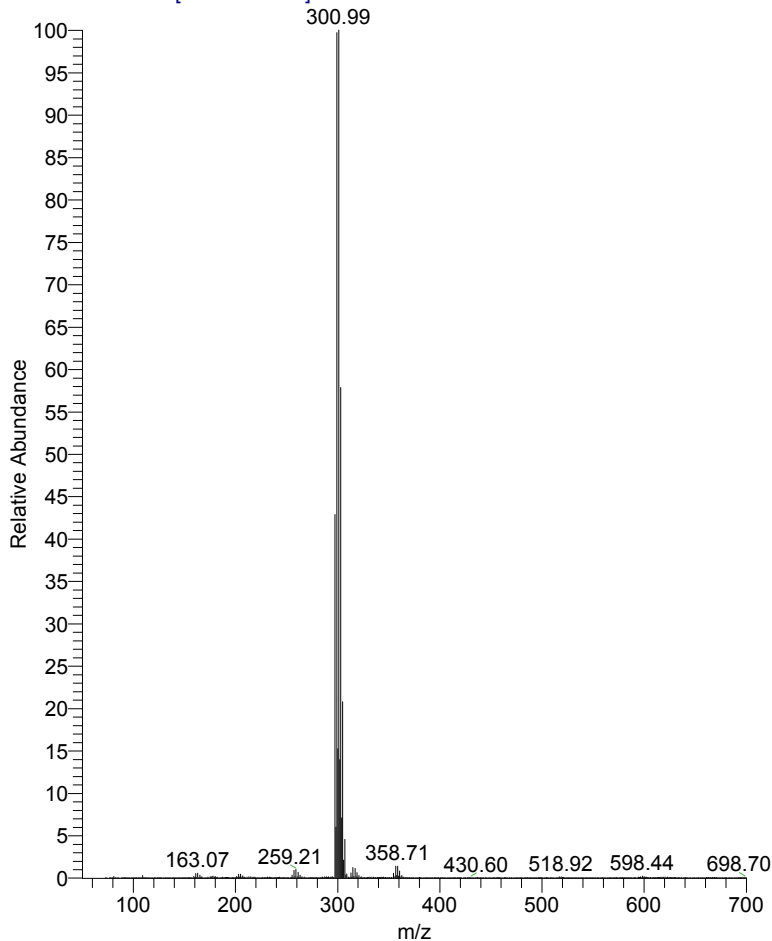
T: + c NSI Full ms [50.00-700.00]

m/z = 287.20-315.57

m/z	Intensity	Relative
295.23	109972.7	0.12
297.19	39607889.7	42.88
298.23	5529113.7	5.99
299.10	92096148.2	99.71
300.13	14061737.9	15.22
300.99	92365041.5	100.00
302.01	12900117.9	13.97
302.93	53435577.9	57.85
303.94	6527453.3	7.07
304.91	19187073.4	20.77
305.92	1936653.9	2.10
306.90	4199713.9	4.55
307.92	284800.5	0.31
308.92	443593.6	0.48
310.91	101109.3	0.11
312.89	526132.6	0.57
313.86	85483.6	0.09
314.88	1141116.5	1.24

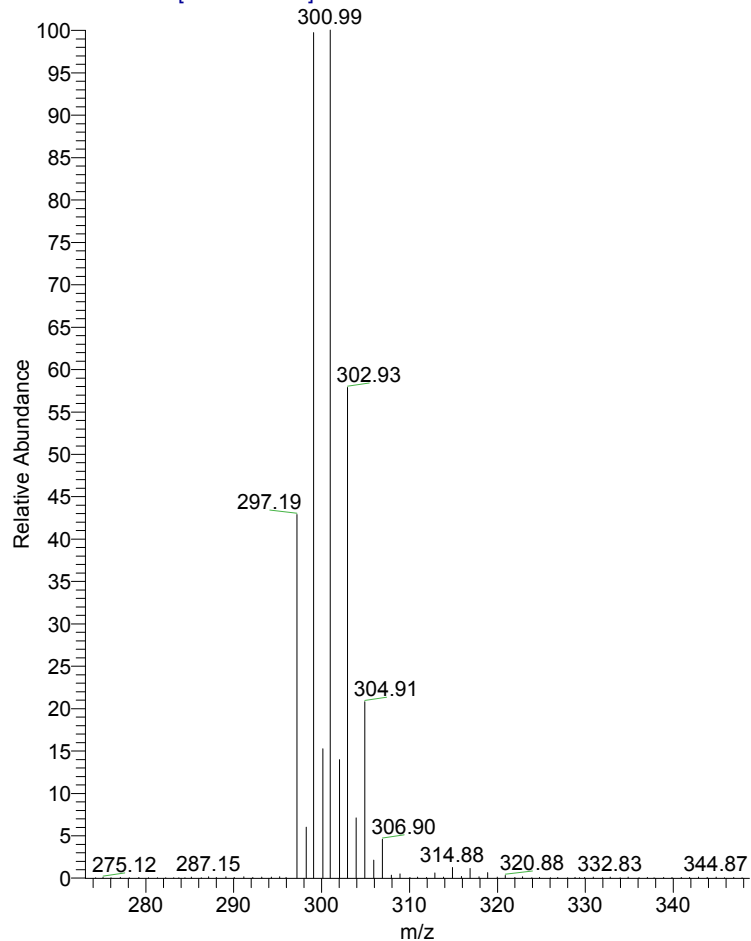
MC2418-20110502-DR #1-156 RT: 0.01-1.99 AV: 156 NL: 9.24E7

T: + c NSI Full ms [50.00-700.00]



MC2418-20110502-DR #1-156 RT: 0.01-1.99 AV: 156 NL: 9.24E7

T: + c NSI Full ms [50.00-700.00]



MC2418 1H NMR in CDCl3
 Batch 20110502-DR



7.465
7.417
7.030
6.932
5.782
5.763
5.749
5.726
5.198
5.174
5.151
4.947
4.929
4.214
4.178
4.056
4.038
4.021
4.002
3.948
3.917
3.761
3.743
3.730

```

NAME MC2418
EXPNO 1
PROCNO 1
Date_ 20110511
Time 11.31
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 512
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894966 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 295.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300084 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
  
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