

**AFCTN Report
94-087**

**AFCTB-ID
94-095**



Technical Raster Transfer Using:

**Loral Training & Technical Services'
Data Supporting:**



STRICOM MILES Program

(Contract #N61339-91-C-0140)

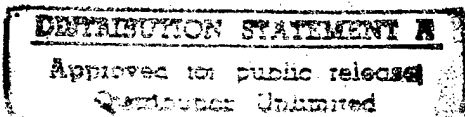
MIL-STD-1840A

MIL-R-28002A (Raster)

Quick Short Test Report

19960822 099

09 July 1994



Prepared for
Electronic Systems Center
Air Force CALS Program Office
HQ ESC/AV-2
4027 Colonel Glenn Hwy Suite 300
Dayton OH 45431-1672

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MIL-STD-1840A

MIL-R-28002A (Raster)

Quick Short Test Report

09 July 1994

Prepared By

Air Force CALS Test Bed
Wright-Patterson AFB, OH 45433

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DTIC QUALITY INSPECTED

Air Force CALS Test Bed

Notification of Test Results

09 July 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

Loral Training & Technical Services

Identified as follows:

Title:	Technical Raster Transfer
Program:	MILES
Program Office:	STRICOM
Contract No.:	N61339-91-C-0140
QSTR No.:	AFCTB-ID 94-095

Received on the following media: 9-Track Tape

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Standard	Fail
MIL-STD-1840A Media Format:	Pass
MIL-D-28000A IGES:	N/A
MIL-M-28001B SGML:	N/A
MIL-R-28002A Raster:	Fail
MIL-D-28003 CGM:	N/A

Formal results with associated disclaimer are documented and available from the AFCTB.

Air Force CALS Test Bed
HQ ESC/AV-2P
4027 Colonel Glenn Highway, Suite 300
Dayton, OH 45431-1672
Phone: 513-257-3085 FAX: 513-257-5881

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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALs) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALs standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALs initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Loral Training & Technical Service's interpretation and use of the CALS standards in transferring technical Raster data. Loral used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan: AFCTB 94-095

Date of Evaluation: 09 July 1994

Evaluator: George Elwood
Air Force CALS Test Bed
DET 2 HQ ESC/AV-2P
4027 Colonel Glenn Hwy
Suite 300
Dayton OH 45431-1672

Data Originator: Cheri Laudenslager
Loral Training & Technical Services
3601 Koppens Way
Chesapeake VA 23323
(804) 487-3809 X359

Data Description: Technical Raster Test
1 Document Declaration file
12 Raster files

Data Source System:

1840

HARDWARE

SUN OS
Kennedy 9610 Tapedrive

SOFTWARE

Tapetool 1.2.10
CAD 5 Rev. 4.0 Converter

Raster

HARDWARE

SUN OS

SOFTWARE

CAD 5 Rev. 4.0

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN *Tapetool v1.2.10 UNIX*
XSoft *CAPS/CALS v40.4*

MIL-R-28002 (Raster)

HP 735

AFCTN *xrastb.hp*
InterCAP *X-Change v7.82*
ArborText *g42tiff*
Island Software *IslandPaint v3.0*

SGI Indigo2

AFCTN *xrastb.sgi*
IGES Data Analysis (IDA) *CALSVIEW.*

SUN SparcStation 2

ArborText *g42tiff*
Auto-trol *CCITT Conversion 1.1*
Carberry *CADLeaf Plus v3.1*
AFCTN *validg4*
AFCTN *xrastb.sun4*
IDA *IGESView v3.0*
Island Software *IslandPaint v3.0*

PC 486

AFCTN *validg4*
IDA *IGESView Windows*
Inset Systems *HiJaak Pro*
Expert Graphics *RxHighlight v1.0*

Standards

Tested:

MIL-STD-1840A
MIL-R-28002A

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was not marked with a magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3. However, a similar commercial marking was attached to the outside of the box.

The tape was not enclosed in a barrier bag or barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1., was missing. Some 9-track tape units require this BPI to be set manually. A packing list showing all files recorded on the tape was not enclosed.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The tape was run through the AFCTN *Tapetool v1.2.10* utility. No errors were encountered while evaluating the contents of the tape labels.

The tape was read using XSoft's *CAPS read1840A* utility without any reported errors.

The physical structure of the tape meets the requirements defined in MIL-STD-1840A and ANSI x3.27.

3.2.2 Declaration and Header Fields

No errors were reported in the Document Declaration file and data file headers. This portion of the tape meets the CALS MIL-STD-1840A requirements.

4. IGES Analysis

No Initial Graphics Exchange Specification (IGES) files were included in this evaluation.

5. SGML Analysis

No Standard Generalized Markup Language (SGML) files were included in this evaluation.

6. Raster Analysis

The tape contained 12 Raster files. All files were evaluated using the AFCTN *validg4* utility. This program reported that all files failed to meet the CALS MIL-R-28002A specification.

The AFCTB has several tools for viewing Raster files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

When the files were checked, they were found to have two CALS Raster headers. This can occur when the tape writing application inserts another header on top of the header applied by the Raster creation utility. Shown below is a screen dump of file D001R001. Note the two headers. The second header starts at location 4000 which should be the start of the Raster data.

wpafctb1% od -a r001 |more
0000000 s r c d o c i d : sp C 9 3 5 9 4
0000020 3 9 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
0000040 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0000200 d s t d o c i d : sp 9 3 E 0 0 2
0000220 l sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
0000240 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0000400 t x t f i l i d : sp N O N E sp sp sp sp sp
0000420 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0000600 f i g i d : sp N O N E sp sp sp sp sp
0000620 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0001000 s r c g p h : sp N O N E sp sp sp sp sp
0001020 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0001200 d o c c l s : sp U N C L A S S I
0001220 F I E D sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
0001240 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0001400 r t y p e : sp l sp sp sp sp sp sp sp sp sp sp
0001400 r t y p e : sp l sp sp sp sp sp sp sp sp sp sp
0001420 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0001600 r o r i e n t : sp 0 0 0 , 2 7 0
0001620 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0002000 r p e l c n t : sp 0 0 3 4 0 0 ,
0002020 0 0 4 4 0 0 sp sp sp sp sp sp sp sp sp sp sp
0002040 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0002200 r d e n s t y : sp 0 2 0 0 sp sp sp sp sp
0002220 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0002400 n o t e s : sp N O N E sp sp sp sp sp
0002420 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0004000 s r c d o c i d : sp N O N E sp sp sp sp sp
0004020 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0004200 d s t d o c i d : sp N O N E sp sp sp sp sp
0004220 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0004400 t x t f i l i d : sp N O N E sp sp sp sp sp
0004400 t x t f i l i d : sp N O N E sp sp sp sp sp
0004420 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0004600 f i g i d : sp N O N E sp sp sp sp sp
0004620 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0005000 s r c g p h : sp N O N E sp sp sp sp sp
0005020 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0005200 d o c c l s : sp U N C L A S S sp
0005220 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0005400 r t y p e : sp l sp sp sp sp sp sp sp sp sp sp
0005420 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0005600 r o r i e n t : sp 0 0 0 , 2 7 0
0005620 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0006000 r p e l c n t : sp 0 1 0 0 2 4 ,
0006020 0 0 7 4 8 0 sp sp sp sp sp sp sp sp sp sp sp
0006040 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*
0006200 r d e n s t y : sp 0 4 0 0 sp sp sp sp sp
0006200 r d e n s t y : sp 0 4 0 0 sp sp sp sp sp
0006220 sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp sp
*

```

0006400      n   o   t   e   s   :   sp   F   O   R   M   T   E   K   ,   sp
0006420      I   n   c   o   r   p   o   r   a   t   e   d   sp   A   sp   L   o   c   k   h   e   a   d   n
0006440      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
0006460      d   e   c   e   m   b   e   r   sp   n   o   v   e   m   b   e   r   sp   6   6   1   1   s   p   g   l   h   n
0006500      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
0006520      sp  9   3   7   -   4   9   0   0   sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
0006540      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0006600      del del del del del del del del del del del del del del del del del del
0006620      del del del del del del del del del del del del del del del del del del del
0006640      vt  U   T   2   nl  k   q   ^   Q   eot  R   #   S   #   etx  A
0006660      fs  5   K   s   soh  sp  c   dle  us  soh  t   Q   L   t   M   -
    
```

Below is a sample header showing the CALS header and the data.
Note that the data starts at location 4000.

```

wpafb1% od -a t001.cal |more
0000000      s   r   c   d   o   c   i   d   :   sp   N   O   N   E   sp   sp
0000020      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0000200      d   s   t   d   o   c   i   d   :   sp   N   O   N   E   sp   sp
0000220      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0000400      t   x   t   f   i   l   i   d   :   sp   N   O   N   E   sp   sp
0000420      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0000600      f   i   g   i   d   :   sp   N   O   N   E   sp   sp
0000620      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0001000      s   r   c   g   p   h   :   sp   N   O   N   E   sp   sp
0001020      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0001200      d   o   c   c   l   s   :   sp   N   O   N   E   sp   sp
0001220      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0001400      r   t   y   p   e   :   sp   l   sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
0001420      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0001600      r   o   r   i   e   n   t   :   sp   0   0   0   ,   2   7   0
0001620      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0002000      r   p   e   l   c   n   t   :   sp   0   1   0   0   2   4   ,
0002020      0   0   7   4   8   0   sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
0002040      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0002200      r   d   e   n   s   t   y   :   sp   0   4   0   0   sp  sp  sp
0002220      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0002400      n   o   t   e   s   :   sp   N   O   N   E   sp   sp
0002420      sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp  sp
*
0004000      del del del del del del del del del del del del del del del del del del del
0004020      del del del del del del del del del del del del del del del del del del del
0004040      vt  U   T   2   nl  k   q   ^   Q   eot  R   #   S   #   etx  A
0004060      fs  5   K   s   soh  sp  c   dle  us  soh  t   Q   L   t   M   -
    
```

Loral used the AFCTN *Tapetool* utility to write the tape. This utility will insert a correct MIL-STD-1840A header on top of the supplied Raster file. Note, most Raster creation utilities insert a partial CALS header because the information on density, scan direction, pel, and line count are

inserted at that time. If the Raster files have a header, **Tapetool** should be run with the `-roff` switch activated. This prevents **Tapetool** from writing another header on top of the file.

When the AFCTN **Tapetool** utility read the tape, it striped the CALS header off, and the resulting file was then tested. This file still did not meet the CALS standards. All viewing utilities available in the AFCTB, with the exception of Inset Systems' **HiJaak Pro** would not read or display the files.

All 12 files were read into Inset Systems' **HiJaak Pro** and written out using a different name. These files could then be viewed by all of the Raster viewers without any reported errors. The AFCTN **validg4** utility reported these files as valid files. It was noted that file D001R004 was nearly 500K in size. When this file was decompressed, some systems could not handle the file without extensive disk caching operations.

The corrected files were read into the AFCTN **xrastb.sun4** viewing utility. No problems were noted except with file D001R004, which was too large for the system.

The files were read into Carberry's **CADLeaf** software and displayed without a reported error.

The files were read into Inset Systems' **HiJaak for Windows** without a reported error.

The Raster files were imported into Expert Graphics' **Rx-Highlight** and displayed without a reported error.

The Raster files do not meet the CALS MIL-R-28002 specification, due to the problem with the double headers.

7. CGM Analysis

No Computer Graphics Metafile (CGM) files were included in this evaluation.

8. Conclusions and Recommendations

The tape from Loral Training and Technical Services was basically correct. The tape could be read properly using the AFCTN *Tapetool* Software without a reported error. However, the construction of the Raster files was incorrect, due to the insertion of double headers. This caused the Raster files to be unusable. The tape does not meet the requirements defined in MIL-STD-1840A.

The errors with the Raster images are serious. The construction of the Raster files with the double headers result in unusable files. The Raster files do not meet the CALS MIL-R-28002A specification.

The tape does not meet the CALS MIL-STD-1840A requirements, due to the errors in the Raster headers.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 8 14:37:34 1994

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set082

Page: 1

File Name	File Type	Record Format/ Length	Block Length/Total	Selected/ Extracted
D001	Document Declaration	D/00260	02048/000001	Extracted
D001R001	Raster	F/00128	02048/000065	Extracted
D001R002	Raster	F/00128	02048/000043	Extracted
D001R003	Raster	F/00128	02048/000065	Extracted
D001R004	Raster	F/00128	02048/000245	Extracted
D001R005	Raster	F/00128	02048/000058	Extracted
D001R006	Raster	F/00128	02048/000075	Extracted
D001R007	Raster	F/00128	02048/000030	Extracted
D001R008	Raster	F/00128	02048/000028	Extracted
D001R009	Raster	F/00128	02048/000021	Extracted
D001R010	Raster	F/00128	02048/000023	Extracted
D001R011	Raster	F/00128	02048/000023	Extracted
D001R012	Raster	F/00128	02048/000017	Extracted

Catalog Process terminated normally.

9.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Fri Jul 8 14:37:02 1994

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1CAL501

4

Label Identifier: VOL1
Volume Identifier: CAL501
Volume Accessibility:
Owner Identifier:
Label Standard Version: 4

HDR1D001 CAL50100010001000000 94181 00000 000000

Label Identifier: HDR1
File Identifier: D001
File Set Identifier: CAL501
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0000
Generation Version Number: 00
Creation Date: 94181
Expiration Date: 00000
File Accessibility:
Block Count: 000000
Implementation Identifier:

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

End Of Tape File Set

Deallocating /dev/rmt0...

Tape Import Process terminated normally.

9.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Fri Jul 8 14:37:34 1994

MIL-STD-1840A File Set Evaluation Log

File Set: Set082

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: Loral Training and Technical Services, 3601 Koppens Way, Chesapeake,
VA 23323

srcdocid: C9359439

srcrelid: NONE

chglvl: ORIGINAL

dteisu: 19940628

dstsys: MILES

dstdocid: 93E0021

dstrelid: NONE

dtetrn: 19940630

dlvacc: NONE

filcnt: R12

ttlcls: UNCLASSIFIED

doccls: UNCLASSIFIED

doctyp: Product Data

docttl: NONE

Found file: D001R001

Extracting Raster Header Records...

Evaluating Raster Header Records...

srcdocid: C9359439

dstdocid: 93E0021

txtfilid: NONE

figid: NONE

srcgph: NONE

doccls: UNCLASSIFIED

rtype: 1

rorient: 000,270

rpelcnt: 003400,004400

rdensty: 0200
notes: NONE

Saving Raster Header File: D001R001_HDR
Saving Raster Data File: D001R001_GR4

Found file: D001R002
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: C9359439
dstdocid: 93E0021
txtfilid: NONE
figid: NONE
srcgph: NONE
doccls: UNCLASSIFIED
rtype: 1
rorient: 000,270
rpelcnt: 003400,004400
rdensty: 0200
notes: NONE

Saving Raster Header File: D001R002_HDR
Saving Raster Data File: D001R002_GR4

<<<< PART OF LOG FILE REMOVED HERE >>>>

Found file: D001R012
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: C9359439
dstdocid: 93E0021
txtfilid: NONE
figid: NONE
srcgph: NONE
doccls: UNCLASSIFIED
rtype: 1
rorient: 000,270
rpelcnt: 001704,002200
rdensty: 0200
notes: NONE

Saving Raster Header File: D001R012_HDR
Saving Raster Data File: D001R012_GR4

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.

Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.

File Count verification complete.

No errors were encountered in Document D001.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

9.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001      ' ---  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00211.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00212.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00213.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00214.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00215.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00216.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00217.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00218.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E00219.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E002110.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E002111.R.cci'.  
/cals/caps/Bin/read1840A: writing data file 'aftb9495/93E0021/93E002112.R.cci'.  
-- declaration file indicates 0 files of type T  
-- declaration file indicates 0 files of type G  
-- declaration file indicates 0 files of type H  
-- declaration file indicates 0 files of type Q  
-- declaration file indicates 12 files of type R  
-- declaration file indicates 0 files of type C  
-- declaration file indicates 0 files of type X  
-- declaration file indicates 0 files of type P  
-- declaration file indicates 0 files of type Z
```


10.1.2 Output RxHighlight

