

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8514 - L2 Version 3
Chandra X-Ray Center

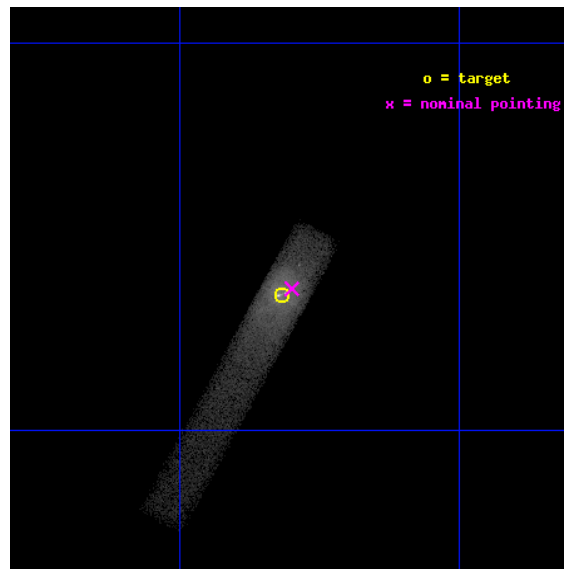
L2 Processing Date : Apr 21 2012

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1 Front

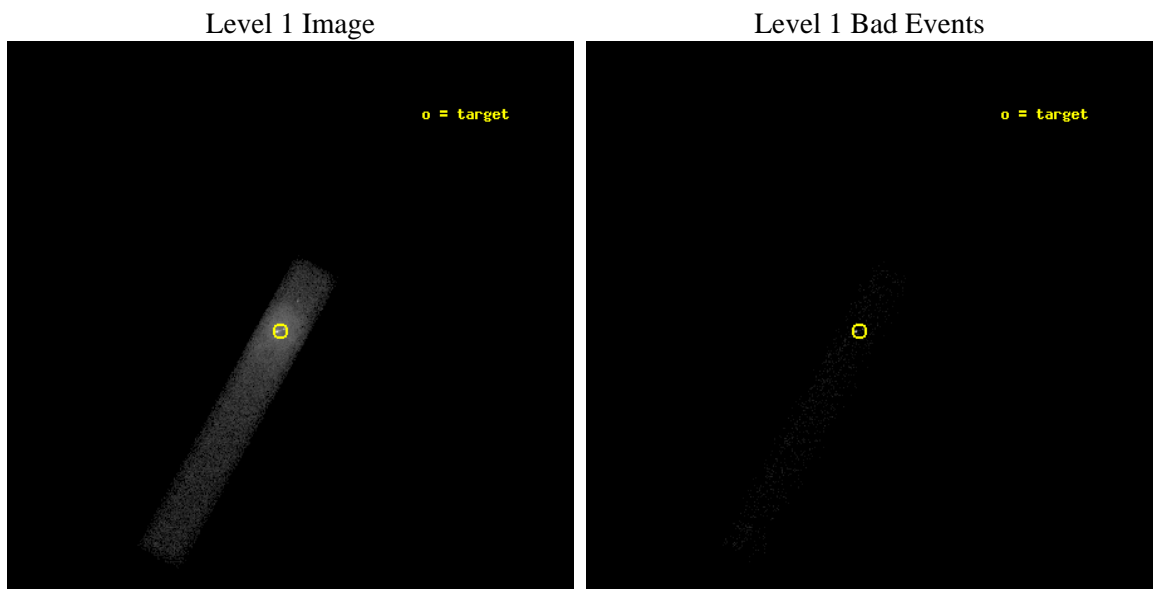
seq_num	701580	Sequence number
obs_id	8514	Observation id
title	Short Timescale X-ray Variability in the M87 Jet: the TeV connection	
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69979305268	Nominal RA [deg]
dec_nom	12.394056188197	Nominal Dec [deg]
roll_nom	118.94046002384	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4929.1997061968	Sum of GTIs [s]
livetime	4470.5239490267	Livetime [s]
ontime7	4929.1997061968	Sum of GTIs [s]
l2events	55570	Number of level 2 events



2 OBI

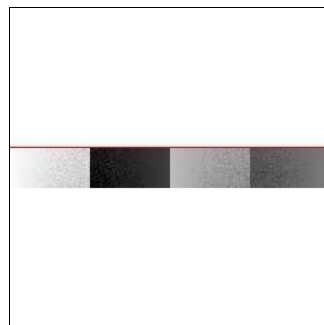
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4929.1997061968	Sum of GTIs [s]
caldsver	4.4.9	 	ontime7	4929.1997061968	Sum of GTIs [s]
date	2012-04-21T13:19:57	Date and time of file creation	l1events	67550	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

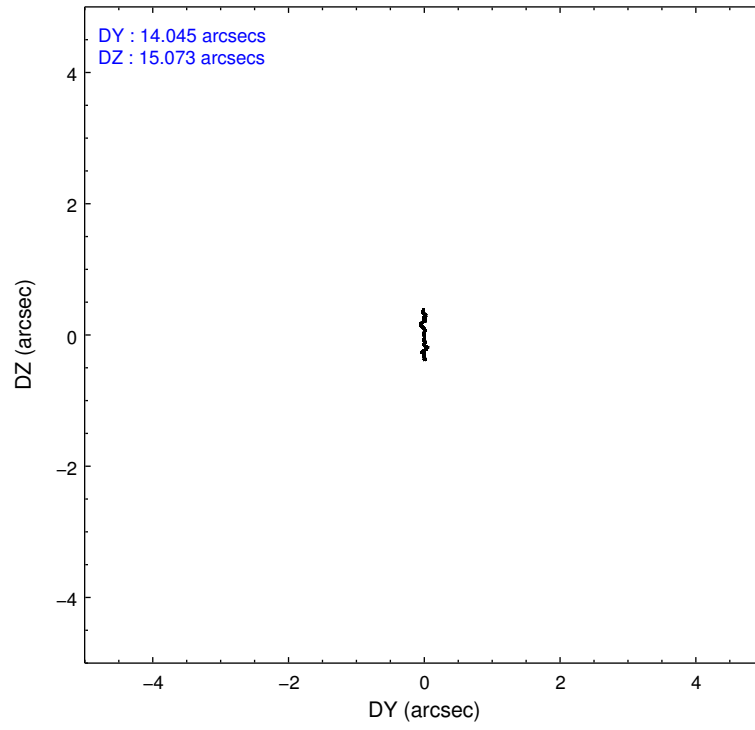
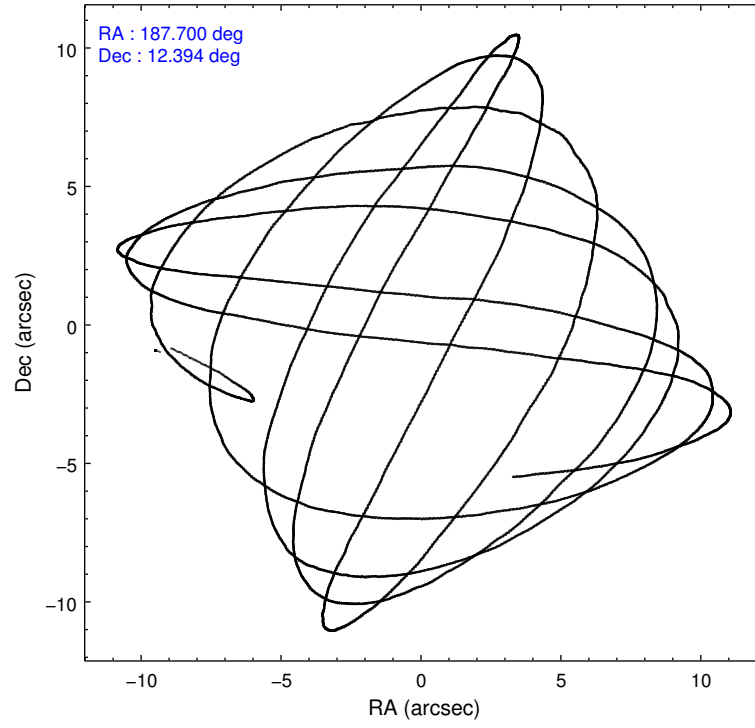
	ccd 7
level 1 events	67550
rejected events	11363
rejected %	16%

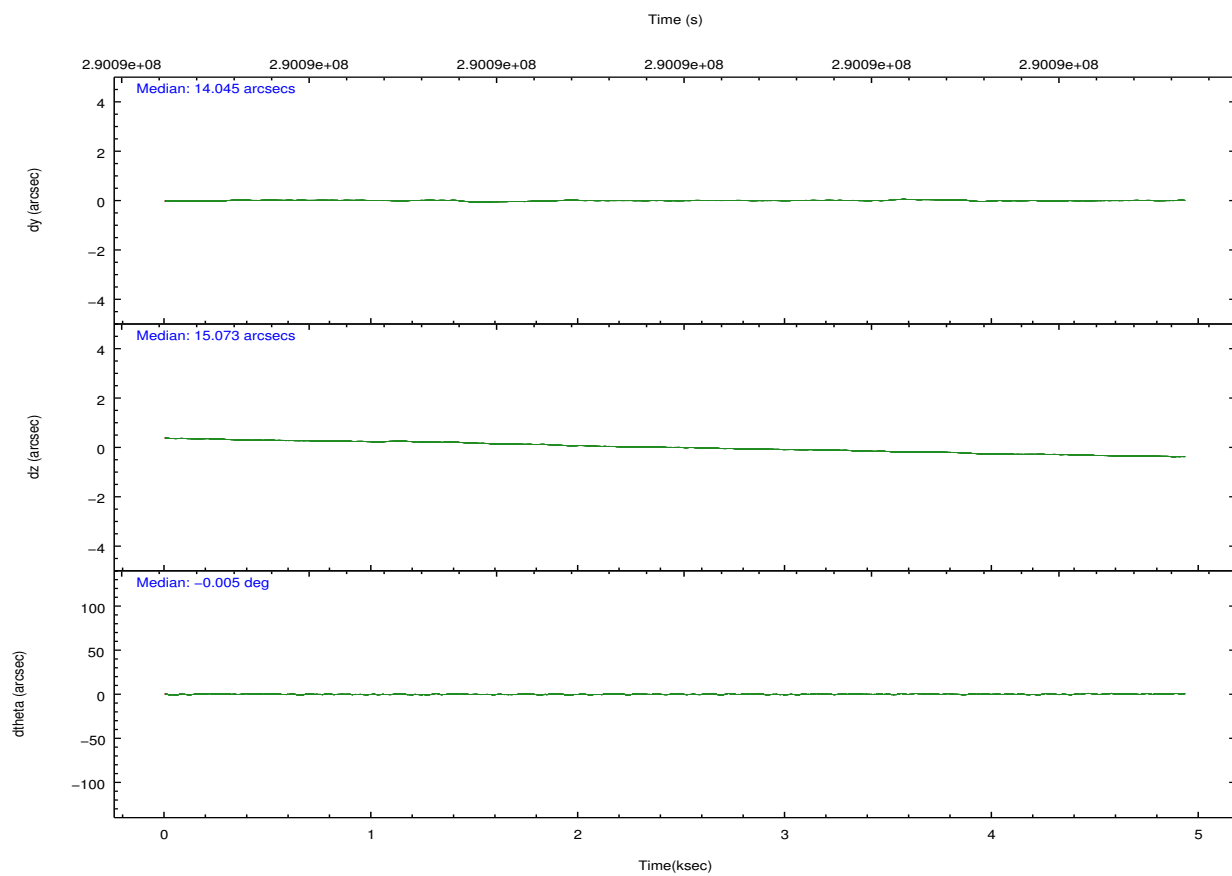
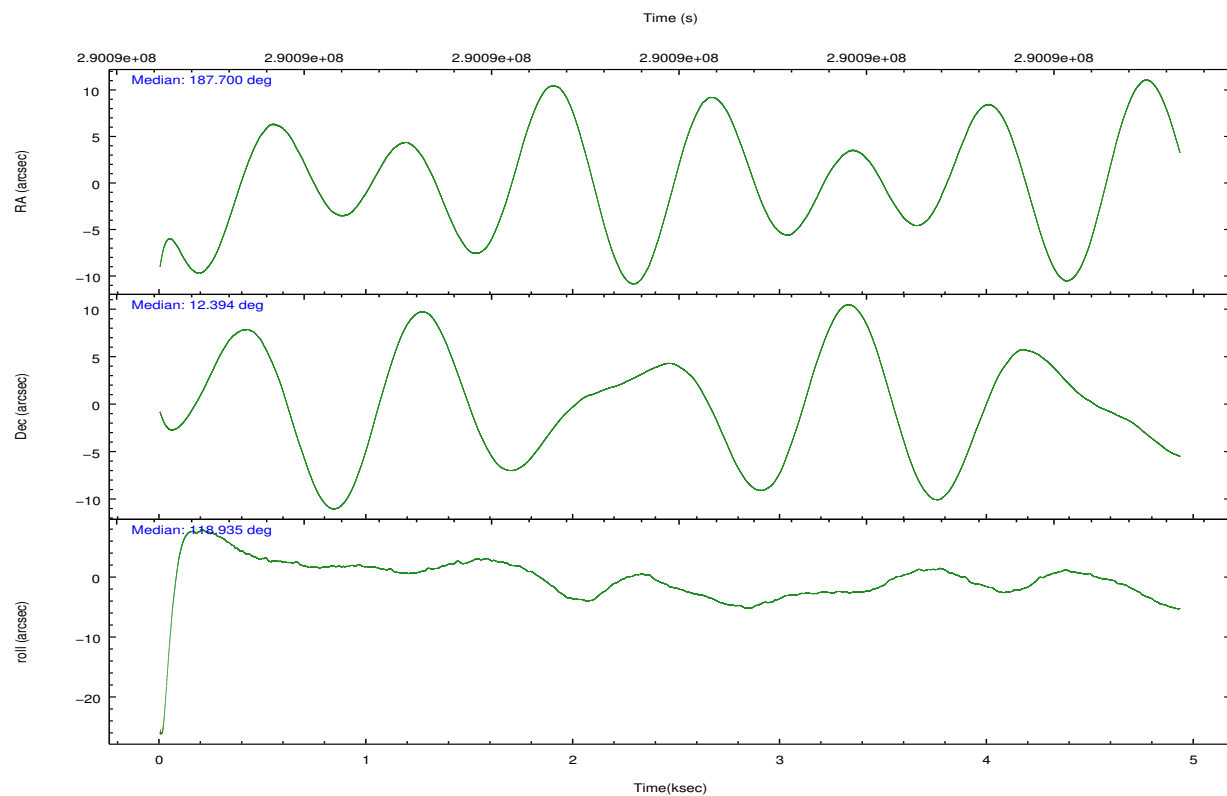
	ccd 7
grade 0 events	17243
	25%
grade 1 events	320
	0%
grade 2 events	14995
	22%
grade 3 events	7035
	10%
grade 4 events	6713
	9%
grade 5 events	2248
	3%
grade 6 events	12914
	19%
grade 7 events	6082
	9%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.724017	187.6997930526756	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.380262	12.39405618819675	Subarray start row	449	449
[deg] Pointing Roll	118.778711	118.9404600238413	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	290087625.184000	290086362.60661			
Observation start date	2007-03-12T11:52:40	2007-03-12T11:32:42			
[s] Observation end time (MET)	290092425.184000	290093038.94443			
Observation end date	2007-03-12T13:12:40	2007-03-12T13:23:58			
Read mode	TIMED	TIMED			

2.3 Aspect



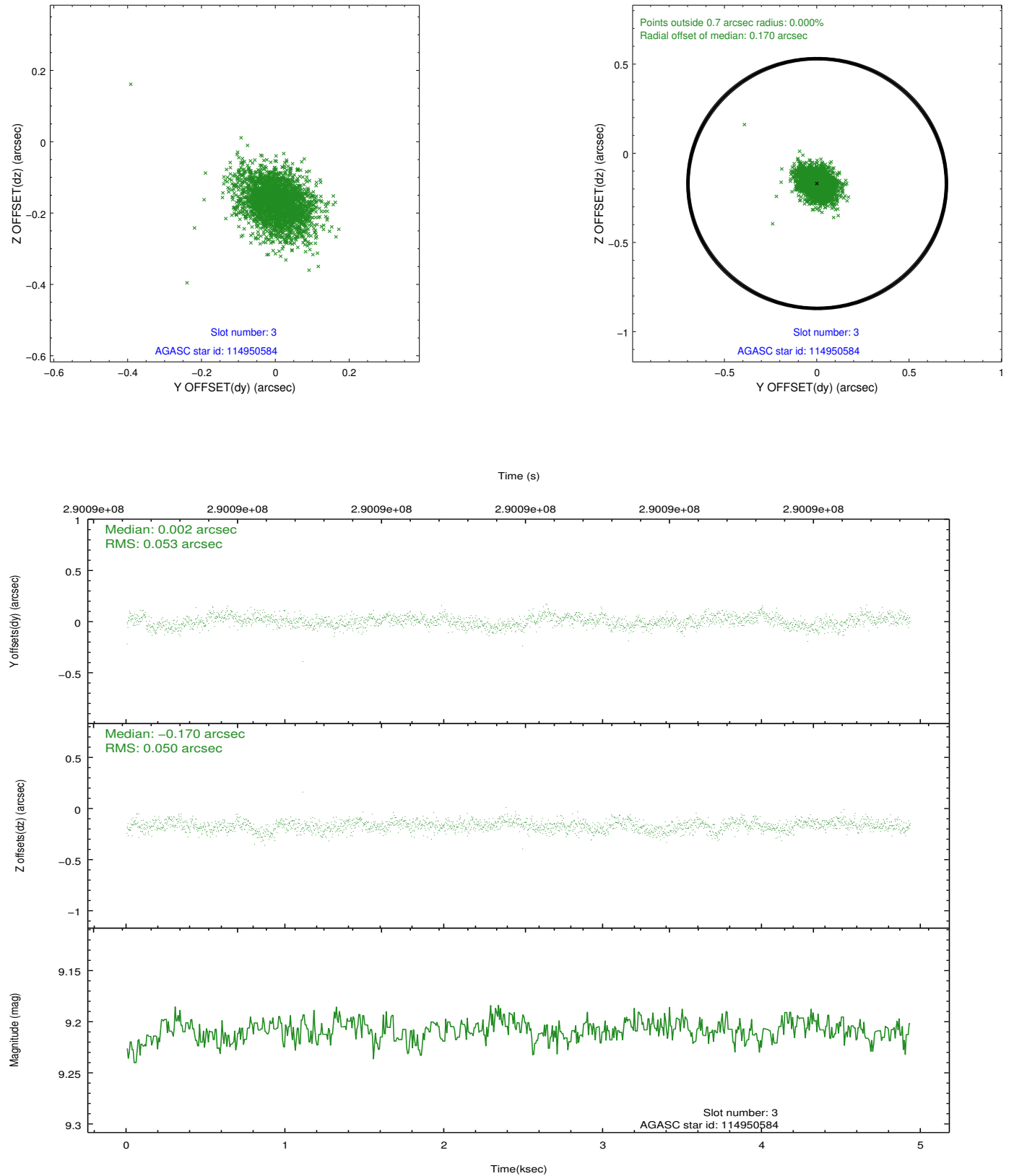


Slot Statistics

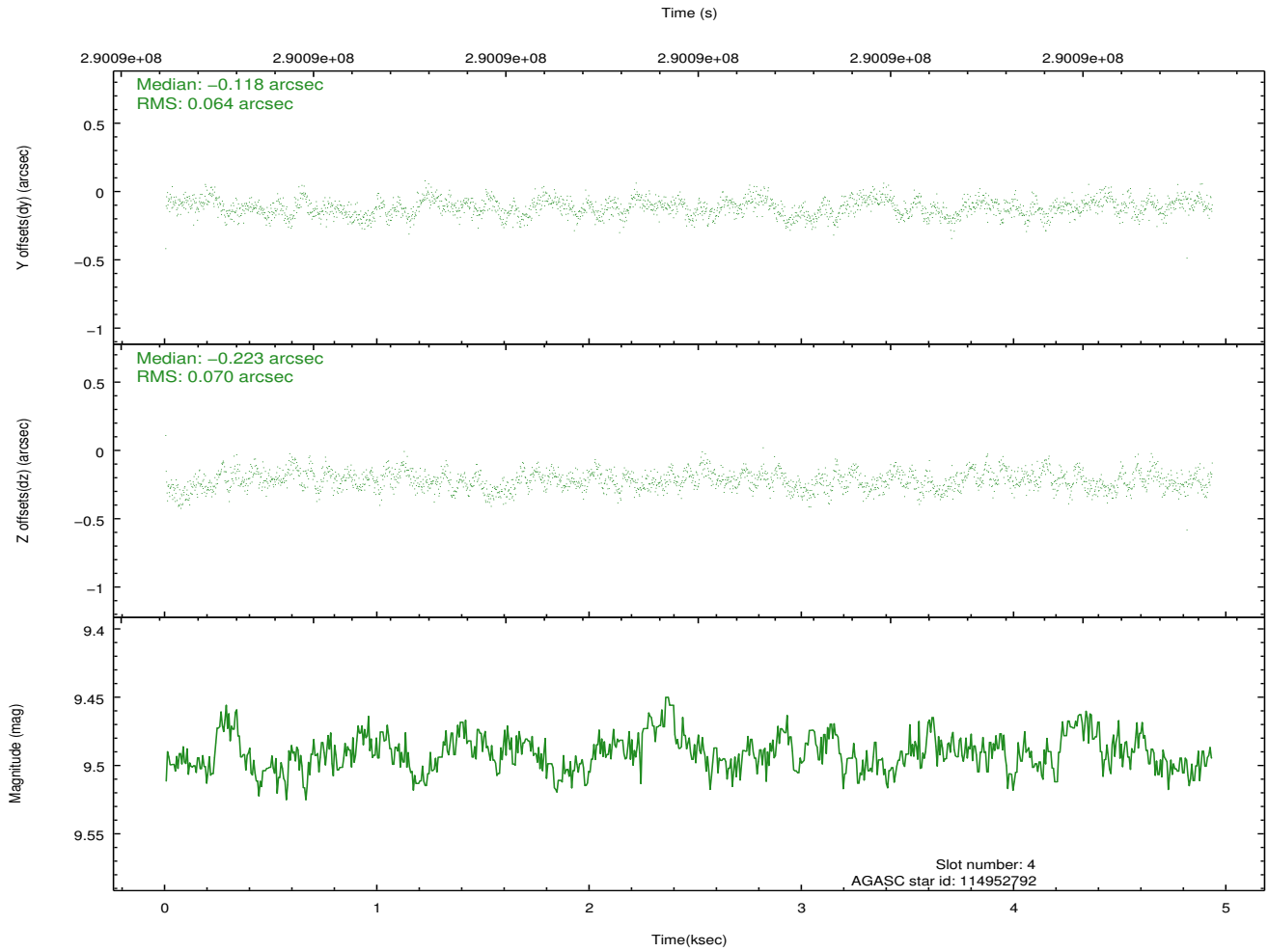
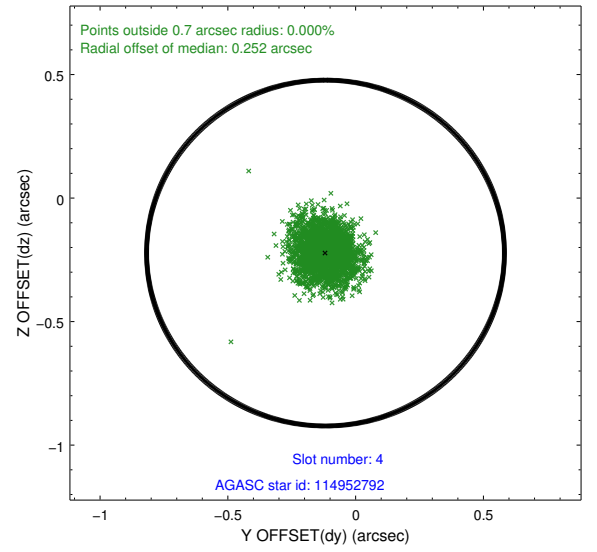
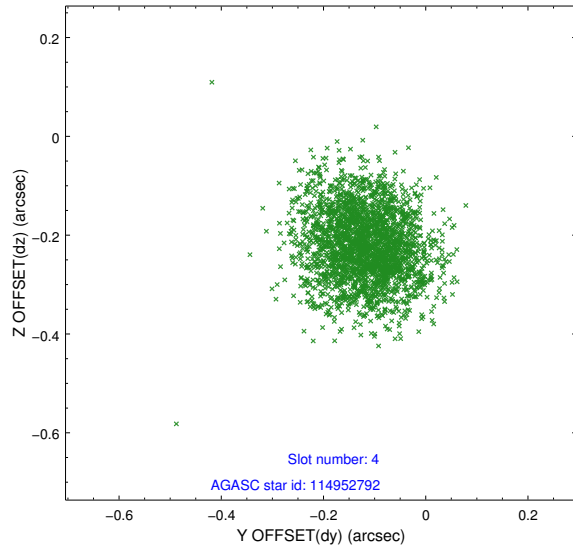
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1203	-0.071	-0.042	0.008	0.015	0.000000	0.000000	-767.04	-1736.45
1	FID	ACIS-S-4	7.20	1203	0.210	0.046	0.006	0.011	0.000000	0.000000	2145.93	170.86
2	FID	ACIS-S-5	7.22	1203	-0.170	0.005	0.008	0.014	0.000000	0.000000	-1818.42	165.87
3	GUIDE	114950584	9.21	2405	0.002	-0.170	0.075	0.125	187.487323	11.827248	-1343.30	1689.33
4	GUIDE	114952792	9.49	2404	-0.118	-0.223	0.102	0.163	187.070263	12.344747	996.38	2076.74
5	GUIDE	114952824	8.56	2404	-0.064	0.111	0.069	0.112	187.703904	12.486727	370.38	-121.18
6	GUIDE	114955056	8.33	2406	0.143	0.446	0.074	0.116	187.914001	12.127854	-1117.83	-148.30
7	GUIDE	114956608	9.67	2400	0.037	-0.158	0.103	0.176	187.452443	11.725979	-1603.89	1973.15

2.4 Star Slots

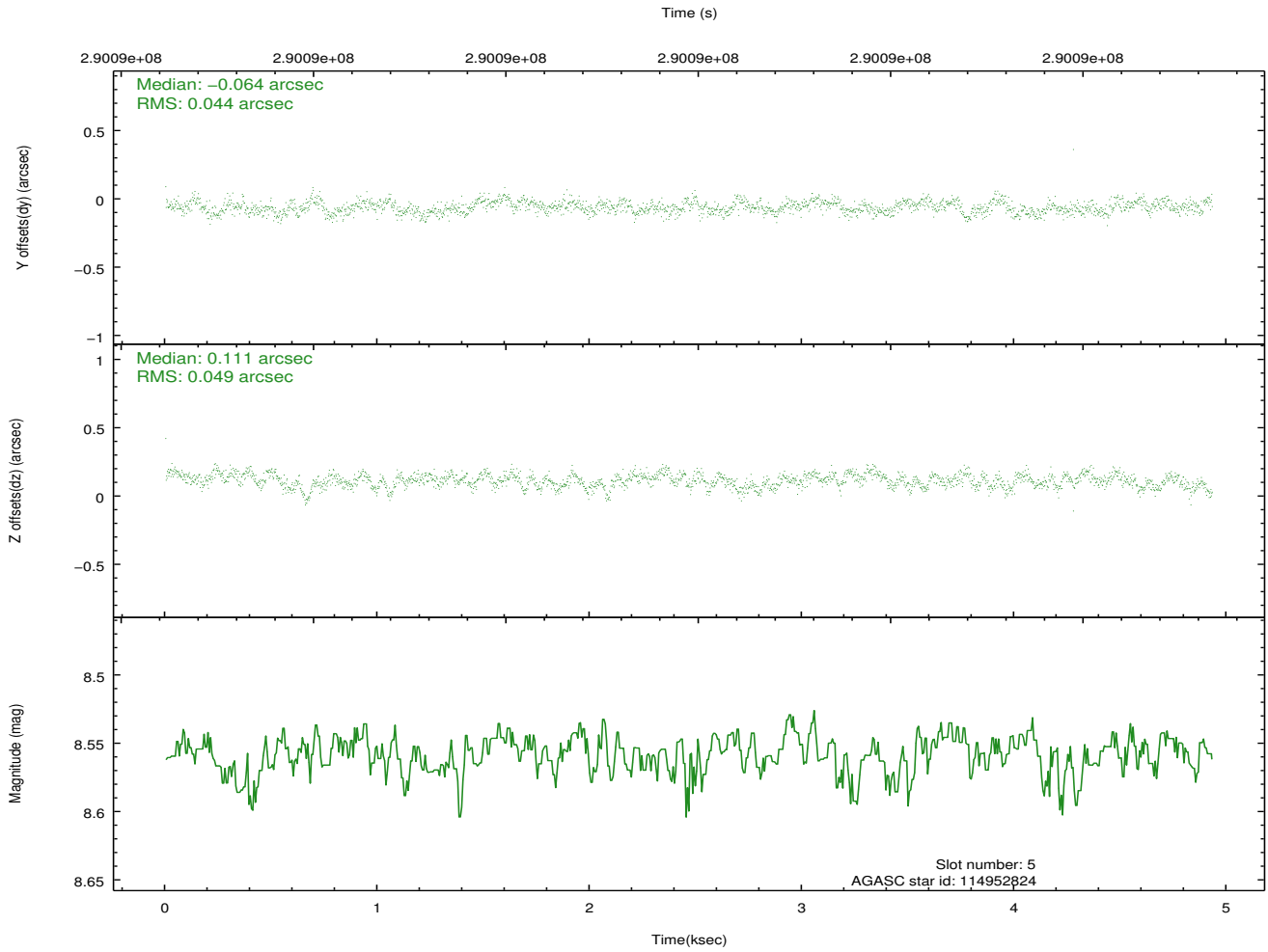
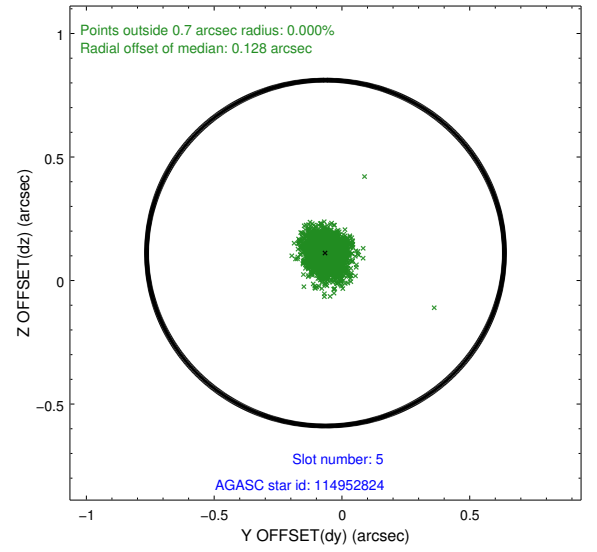
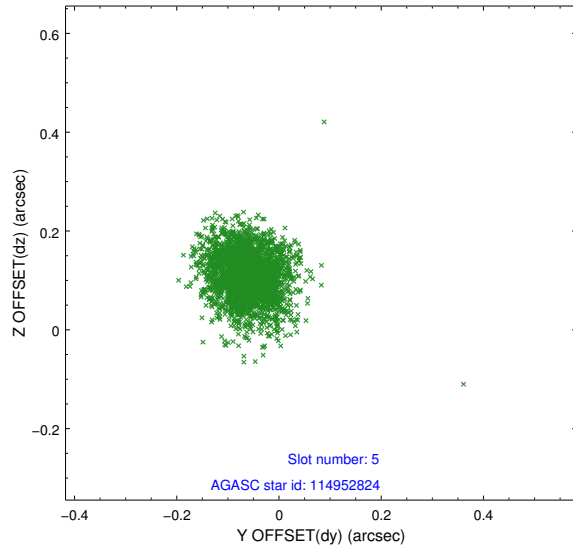
2.4.1 Slot 3



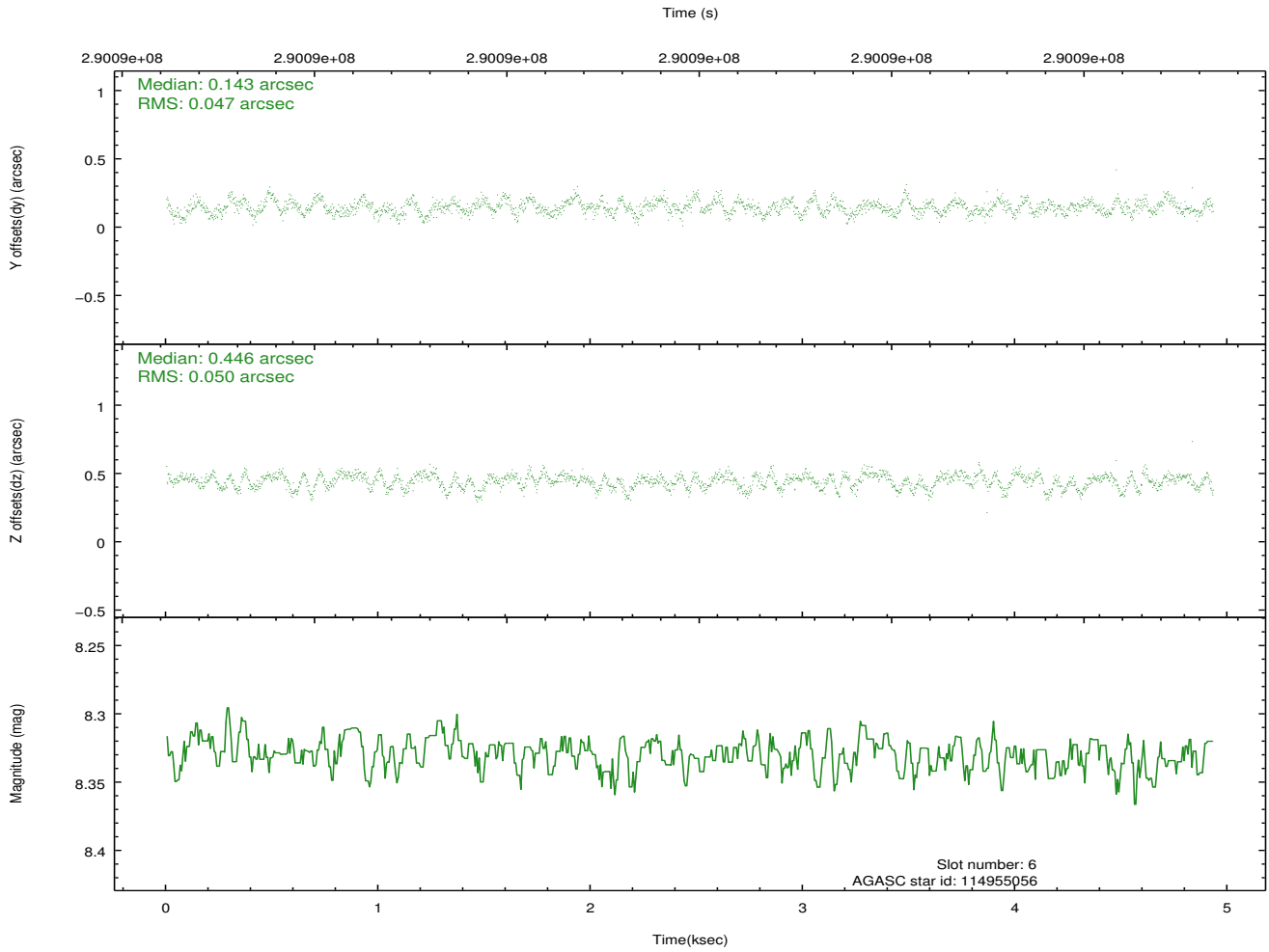
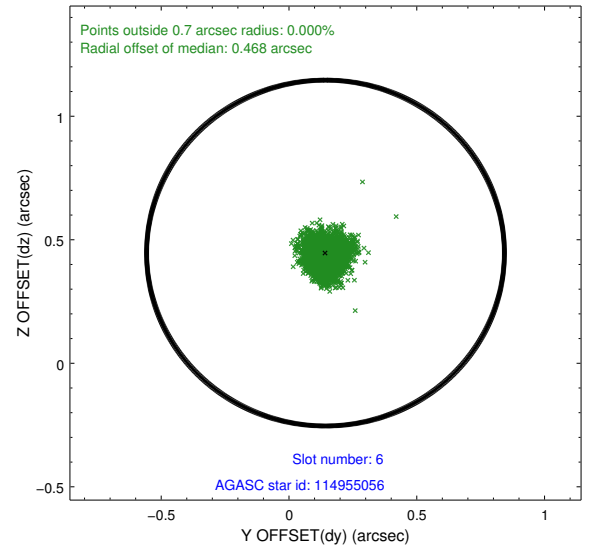
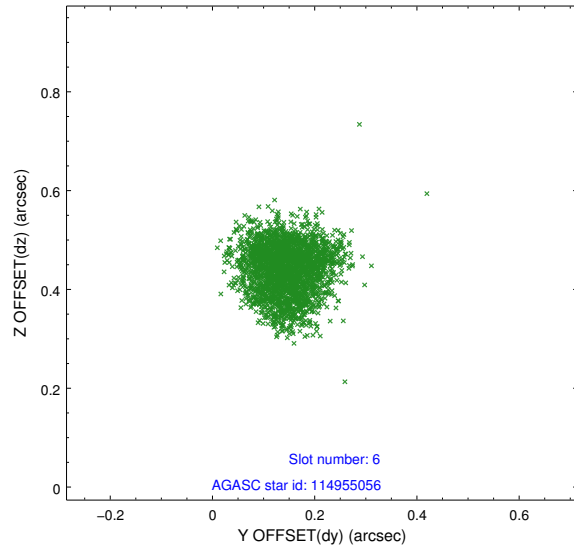
2.4.2 Slot 4



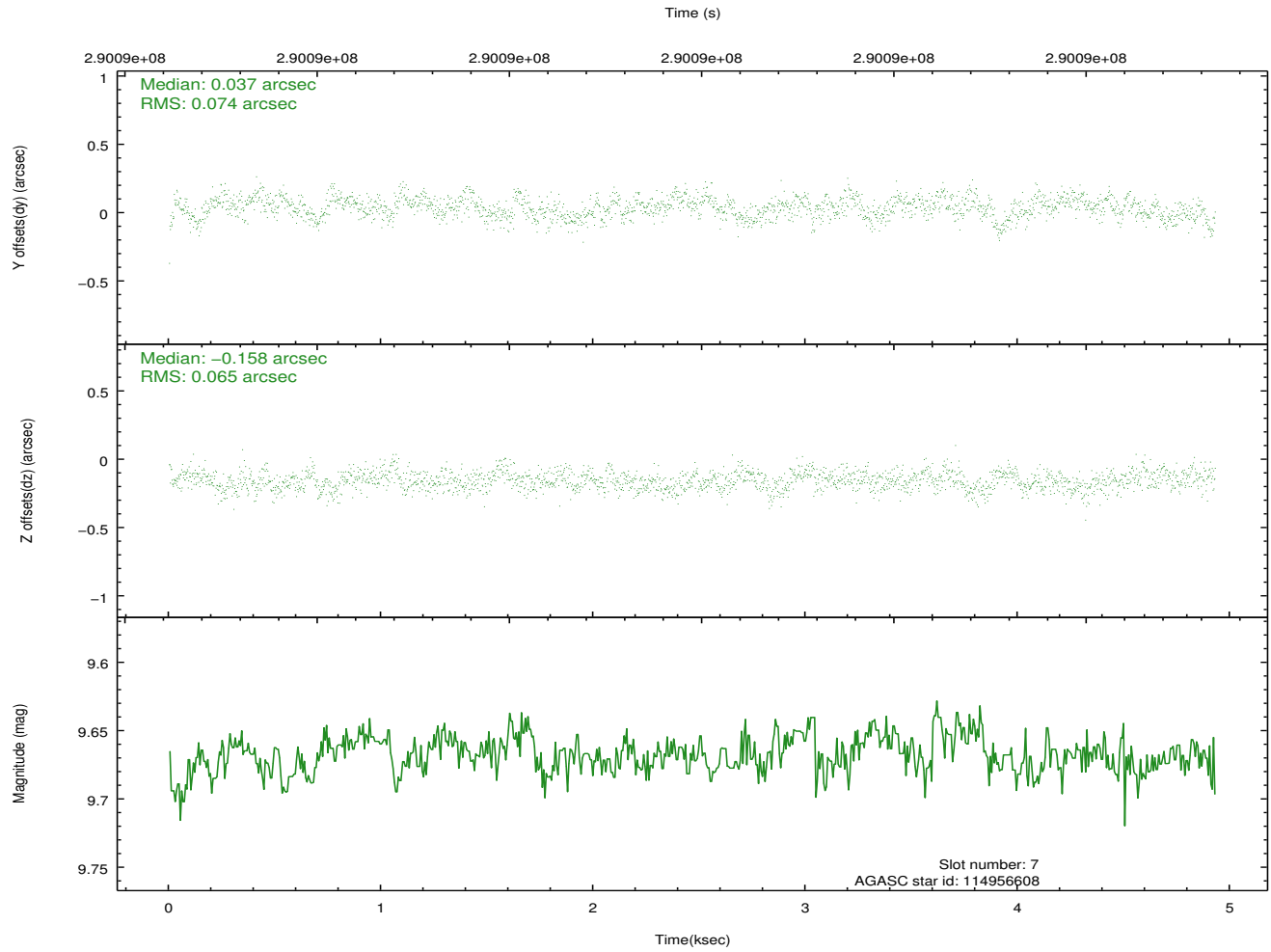
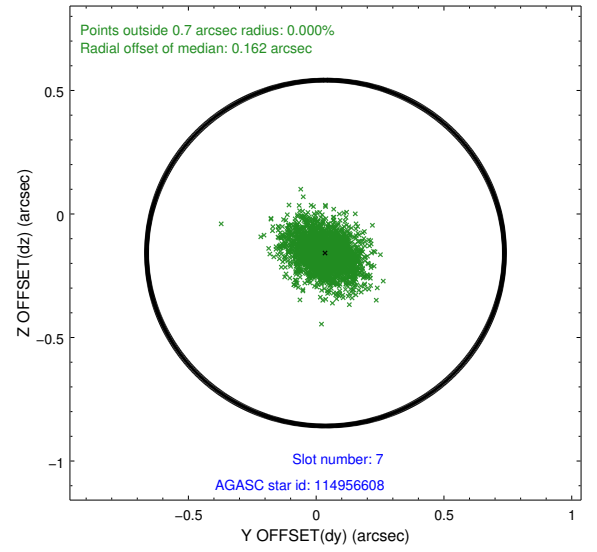
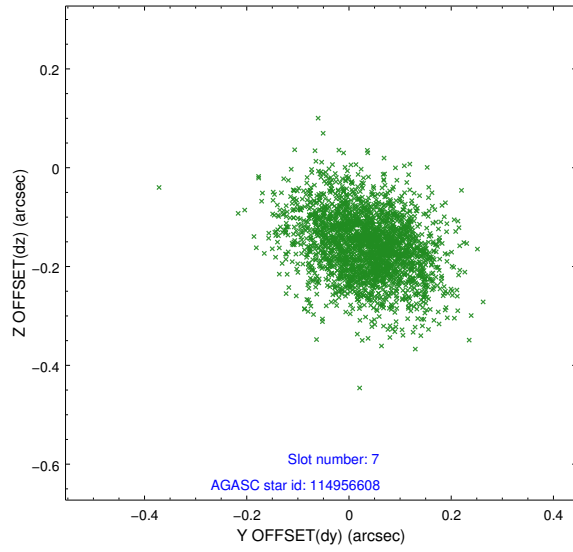
2.4.3 Slot 5



2.4.4 Slot 6

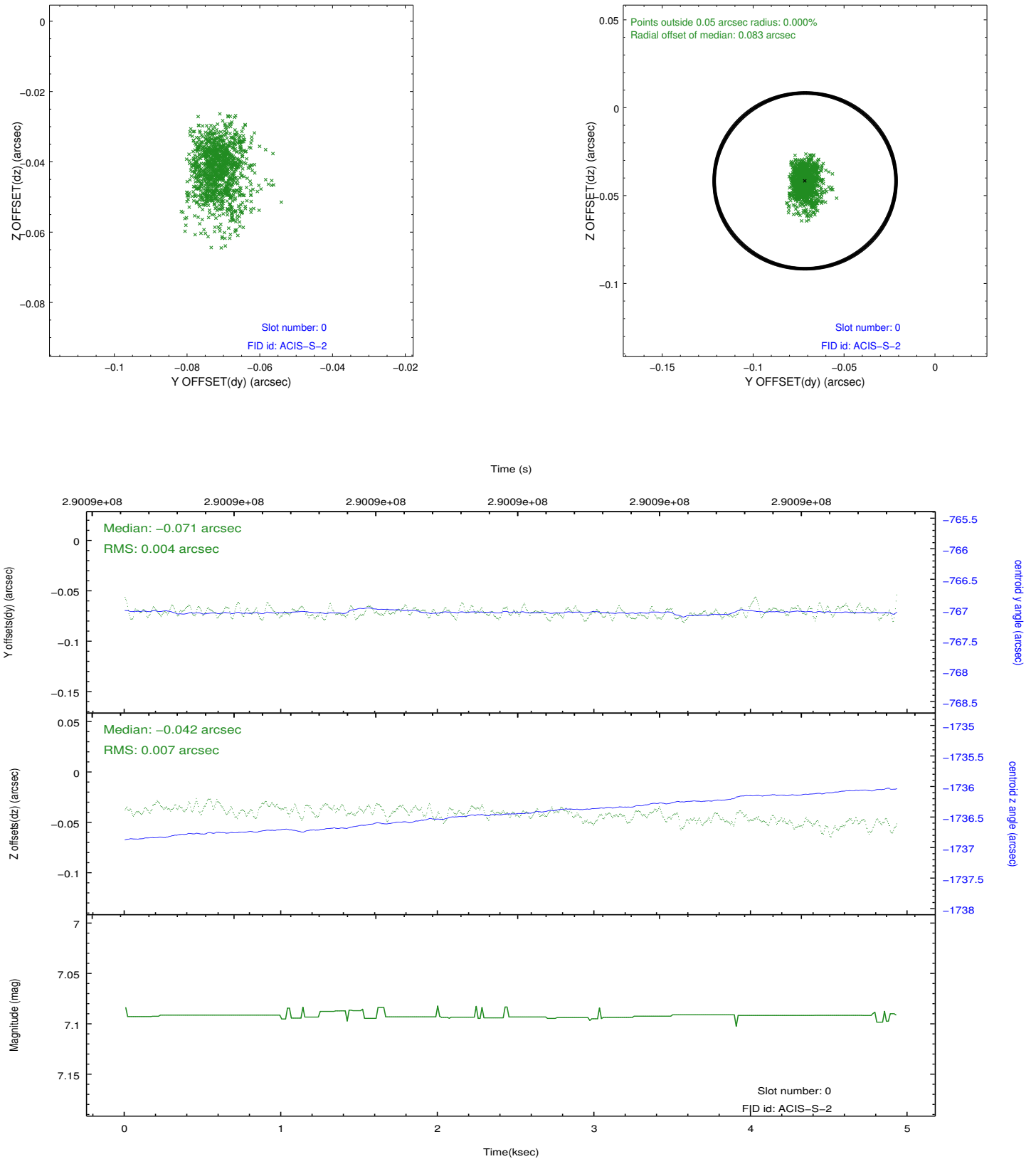


2.4.5 Slot 7

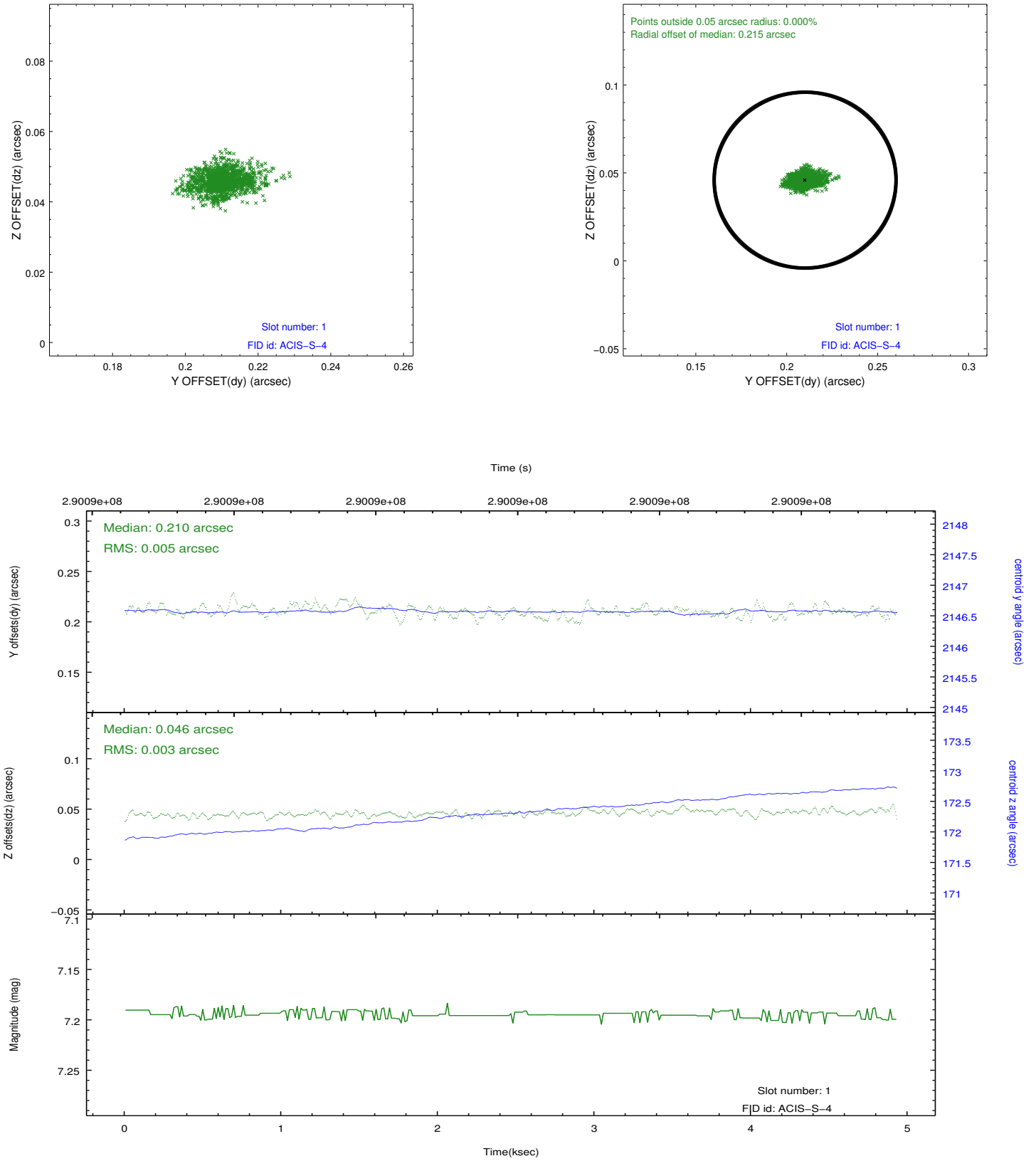


2.5 FID Slots

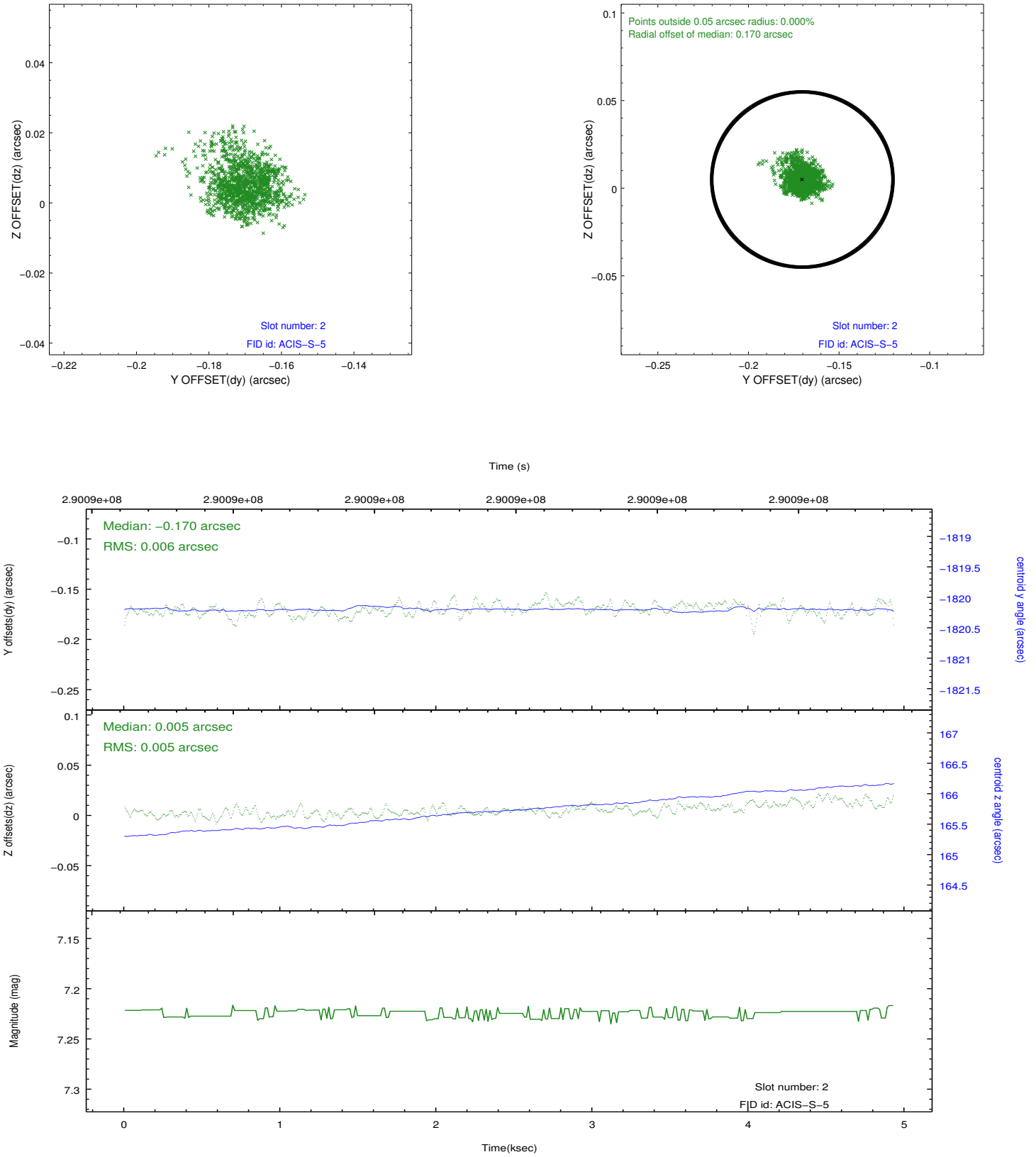
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9291997

A.2 Comments