

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2448 - L2 Version 5
Chandra X-Ray Center

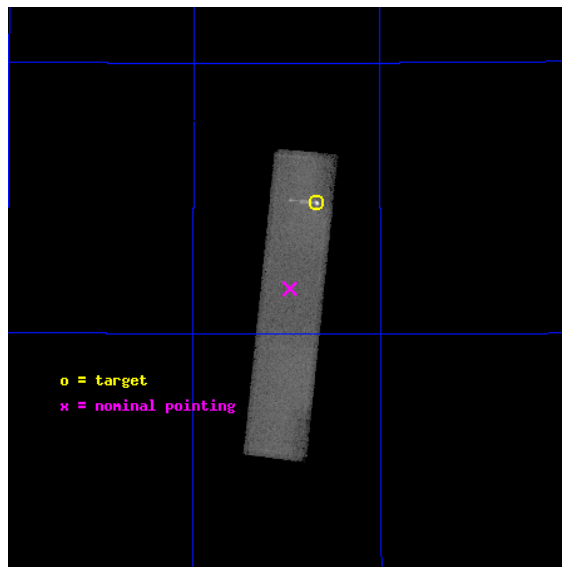
L2 Processing Date : Sep 18 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

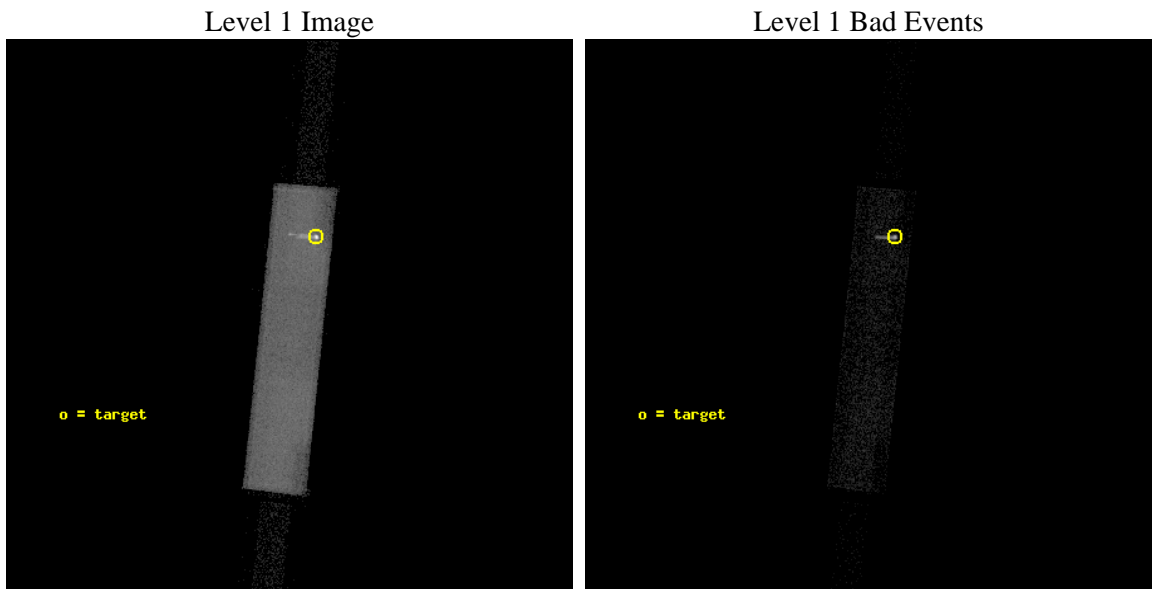
seq_num	290078	Sequence number
obs_id	2448	Observation id
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.24203357125	Nominal RA [deg]
dec_nom	45.583747991668	Nominal Dec [deg]
roll_nom	95.898607412701	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1376.8313035071	[s]
livetime	1357.7884886472	Ontime multiplied by DTCOR
l2events	146028	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1234.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1376.8313035071	[s]
caldbver	4.5.1.1	 	l1events	204790	Number of level 1 events
date	2012-09-18T22:55:38	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

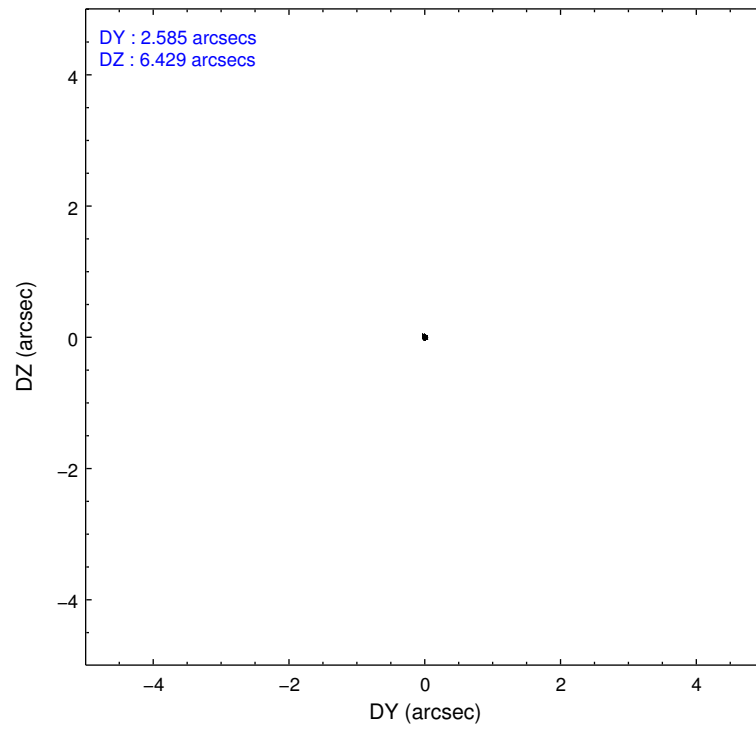
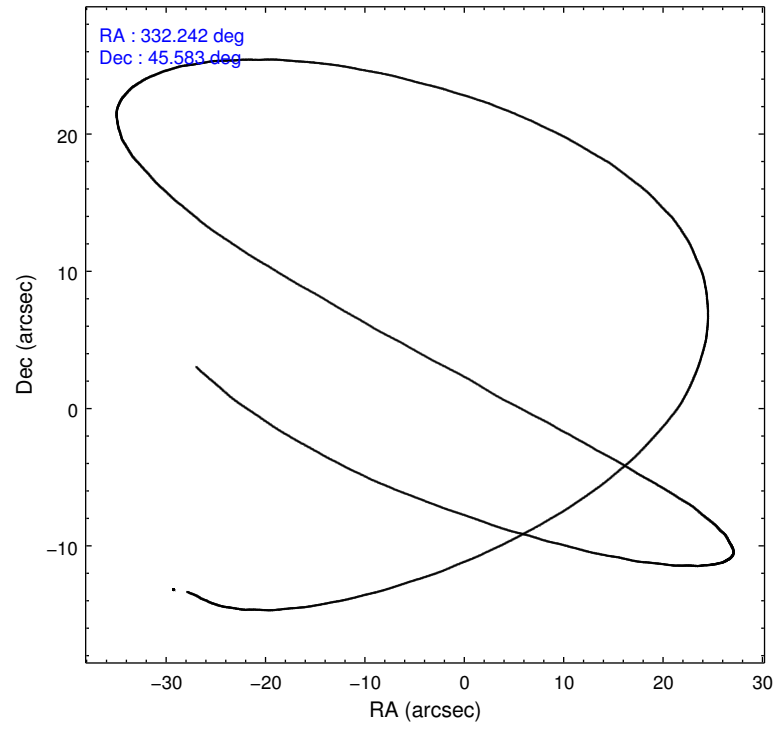
Level 1 Events

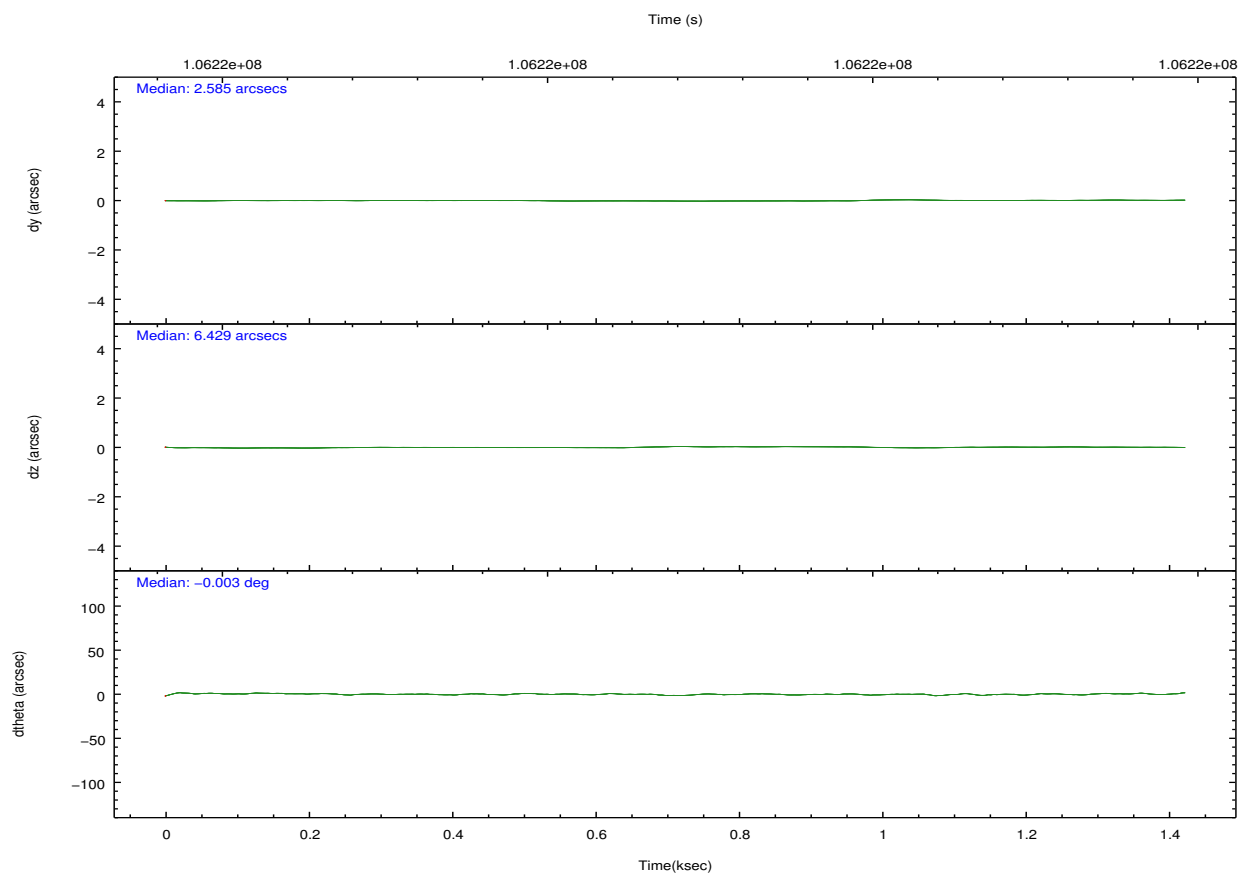
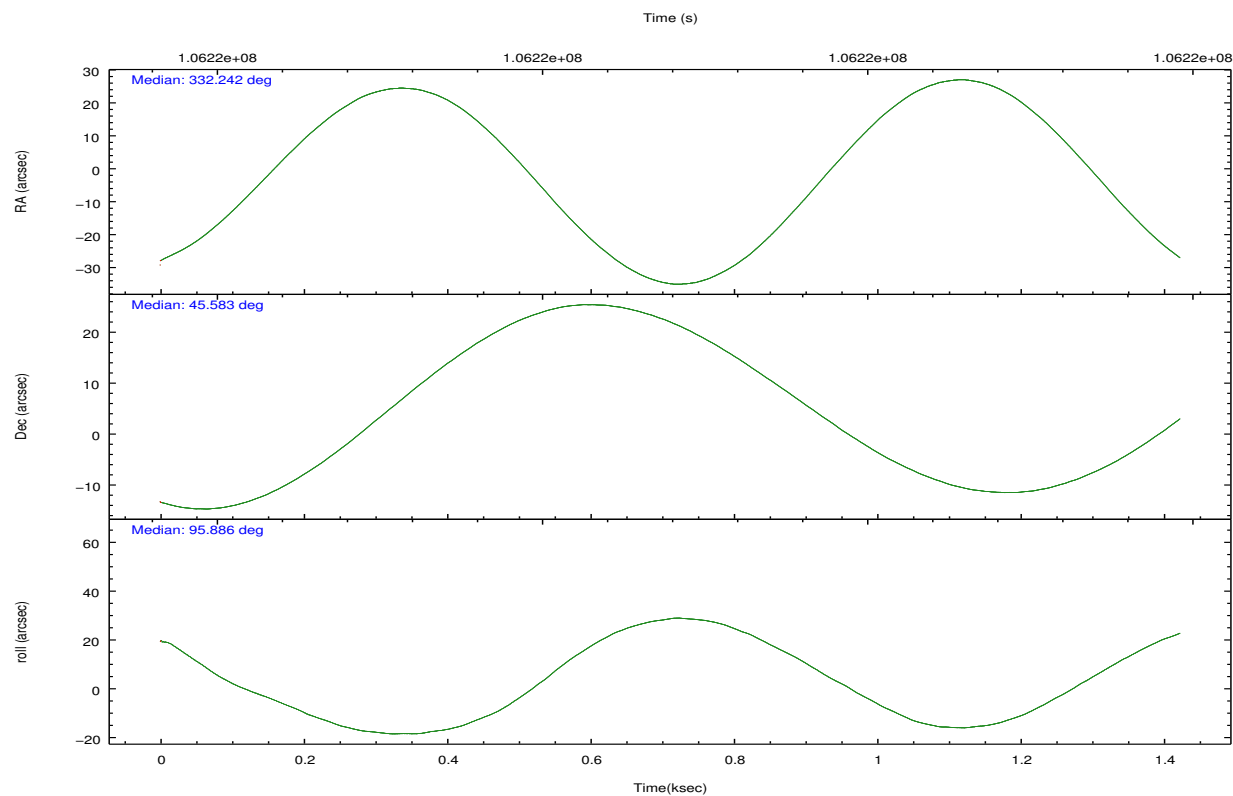
	segment 1	segment 2	segment 3
level 1 events	2507	200165	2118
rejected events	2507	39174	2118
rejected %	100%	19%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.266842	332.2420335712517			
[deg] Pointing Dec	45.562264	45.58374799166807			
[deg] Pointing Roll	95.813602	95.89860741270124			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	106216171.184000	106215794.77127			
Observation start date	2001-05-14T08:28:27	2001-05-14T08:23:14			
[s] Observation end time (MET)	106217405.184000	106217539.32134			
Observation end date	2001-05-14T08:49:01	2001-05-14T08:52:19			

2.3 Aspect



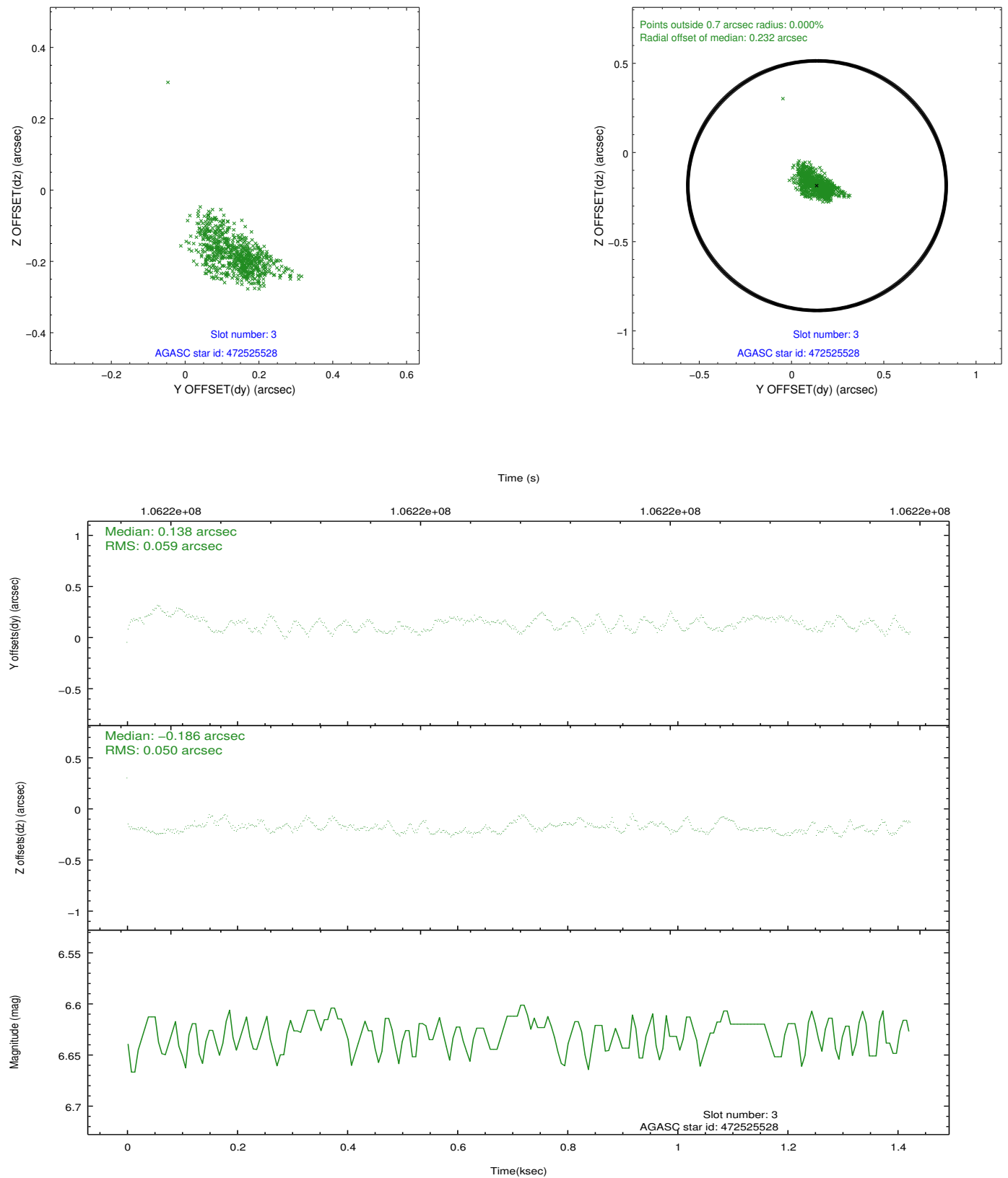


Slot Statistics

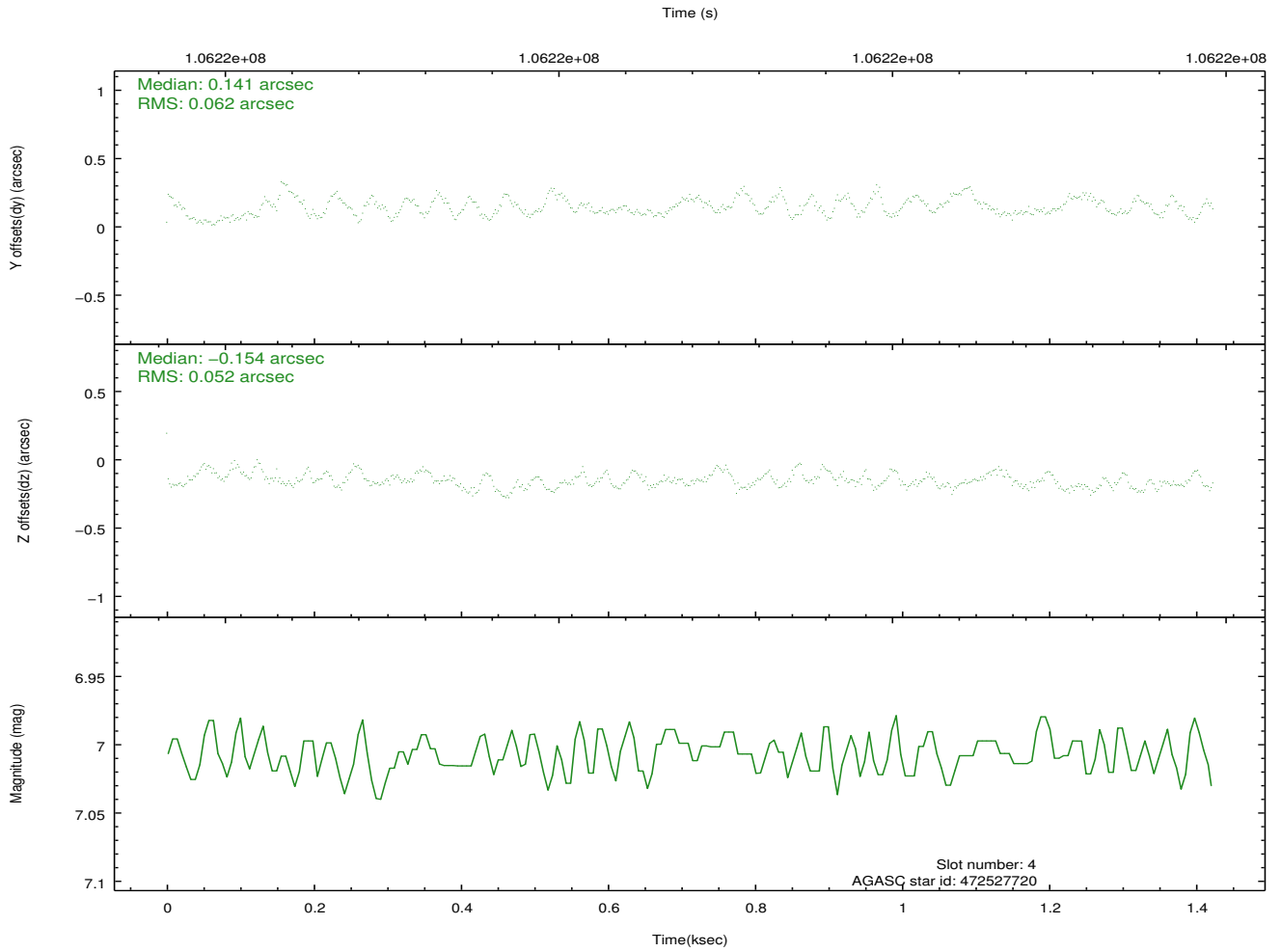
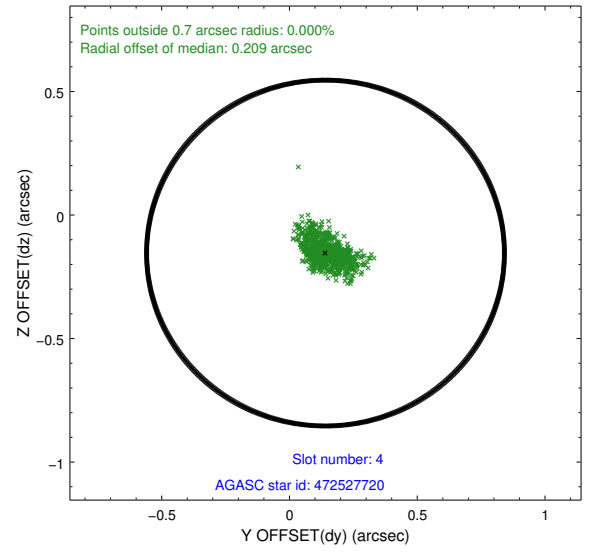
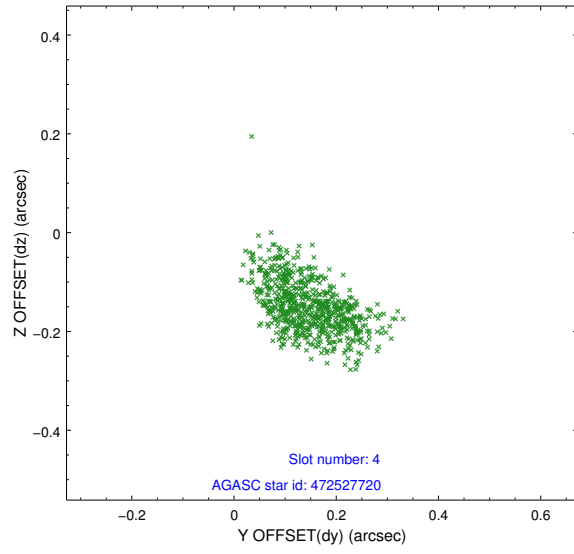
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	348	0.135	-0.106	0.008	0.015	0.000000	0.000000	-1156.62	-454.94
1	FID	HRC-S-2	6.98	348	0.121	-0.099	0.005	0.007	0.000000	0.000000	1239.73	-448.89
2	FID	HRC-S-3	7.00	348	0.134	-0.097	0.008	0.014	0.000000	0.000000	-1155.77	573.31
3	GUIDE	472525528	6.63	695	0.138	-0.186	0.081	0.136	331.551102	45.248694	-928.16	1918.52
4	GUIDE	472527720	7.01	695	0.141	-0.154	0.083	0.142	331.460205	45.112509	-1391.30	2204.74
5	GUIDE	472523760	8.24	695	0.002	0.006	0.057	0.101	331.645363	45.403260	-403.27	1623.89
6	GUIDE	472665256	9.01	695	-0.162	0.198	0.088	0.139	332.808125	46.195041	2137.23	-1569.54
7	GUIDE	472659832	9.47	694	-0.123	0.128	0.094	0.150	332.780399	46.098139	1800.17	-1472.35

2.4 Star Slots

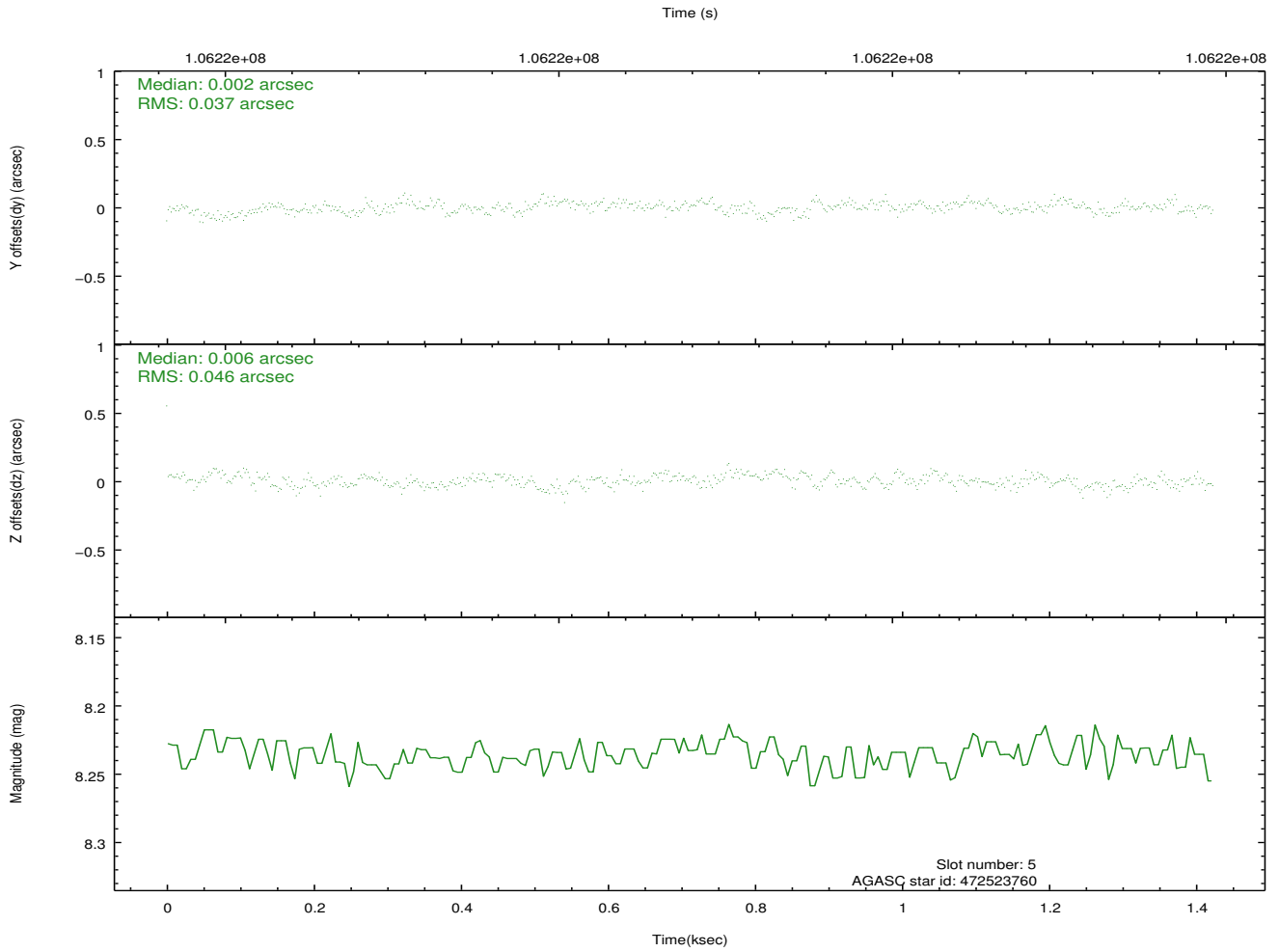
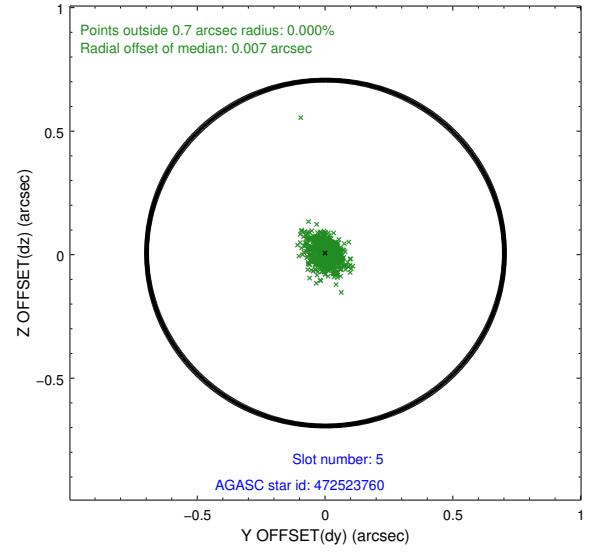
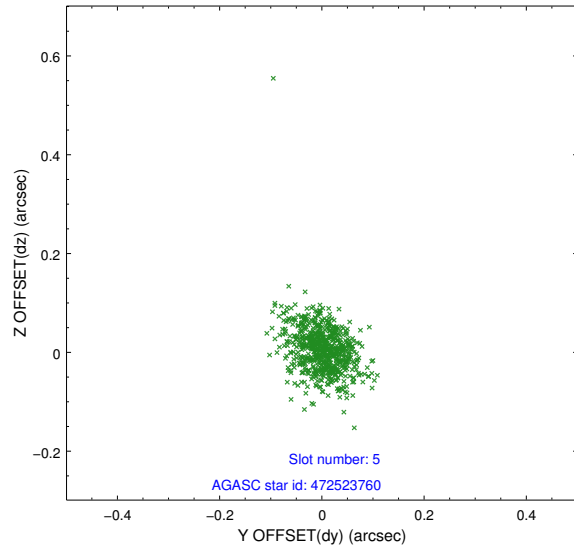
2.4.1 Slot 3



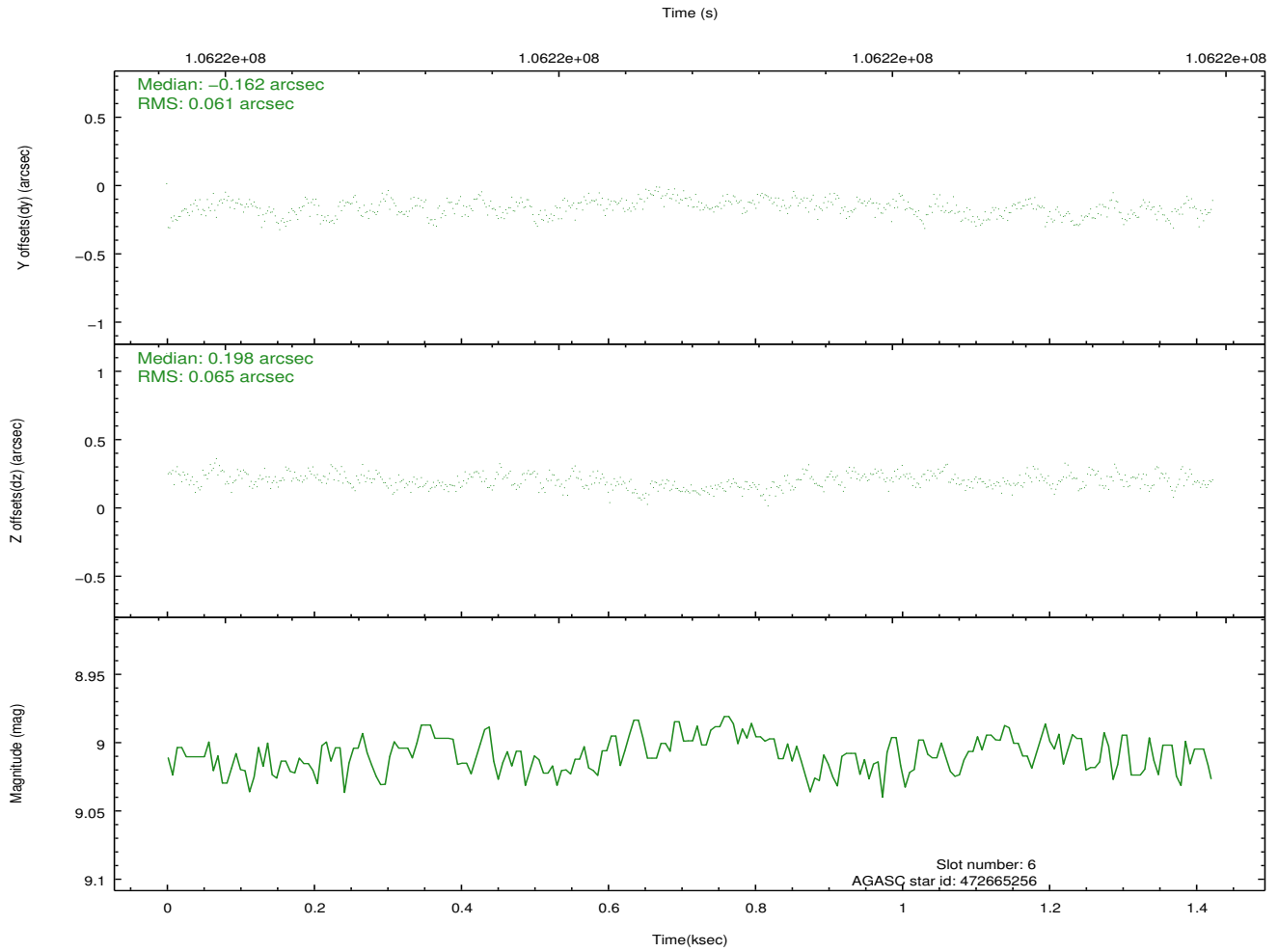
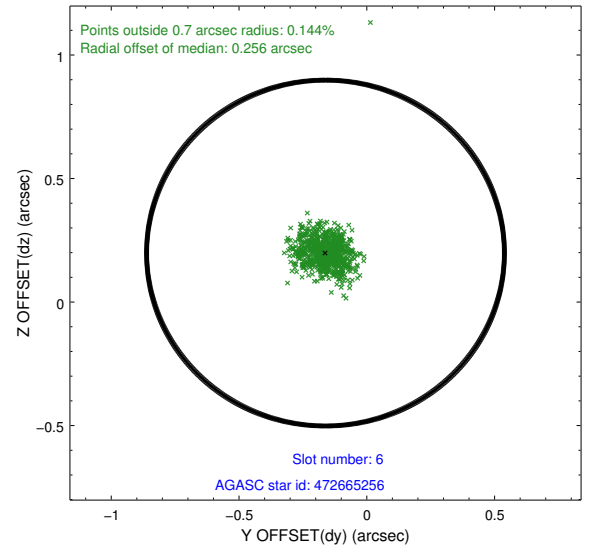
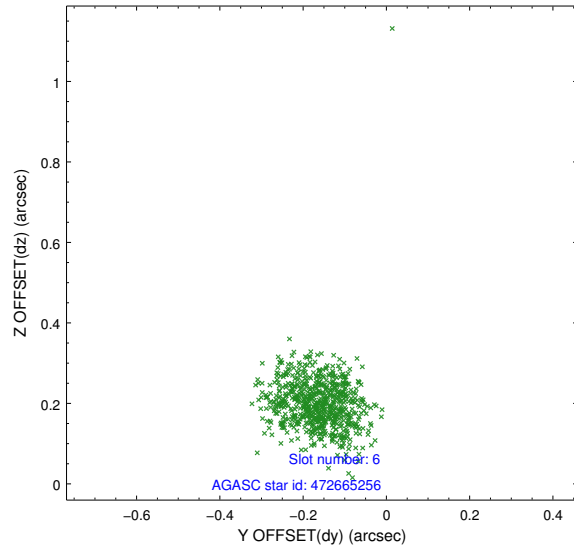
2.4.2 Slot 4



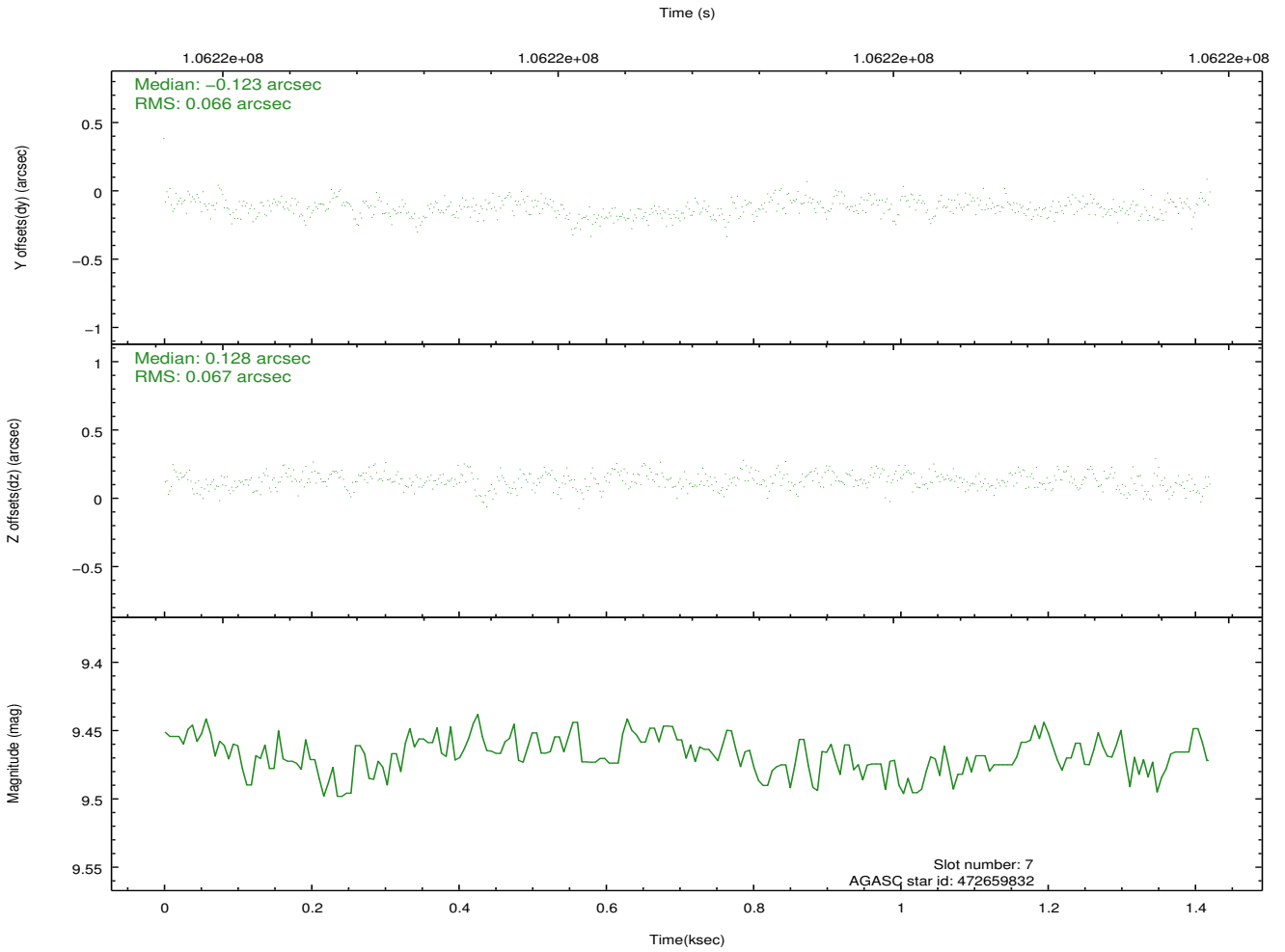
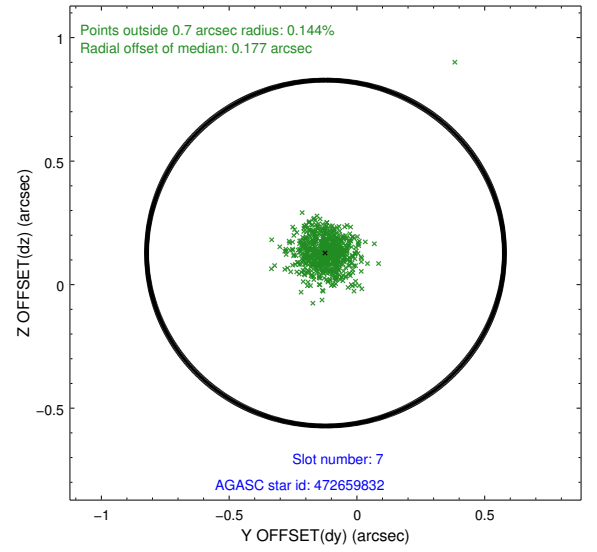
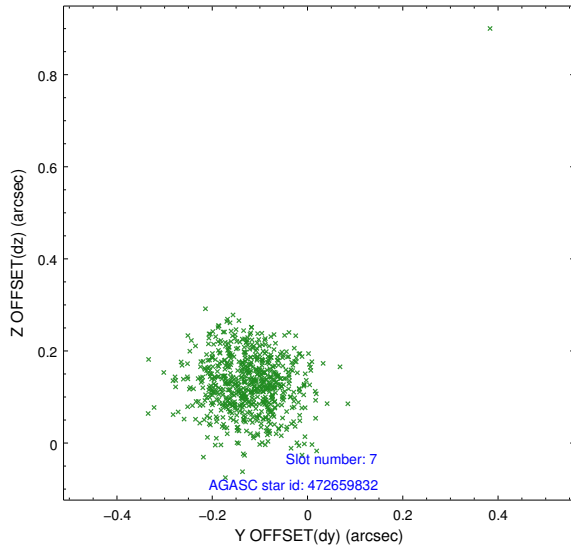
2.4.3 Slot 5



2.4.4 Slot 6

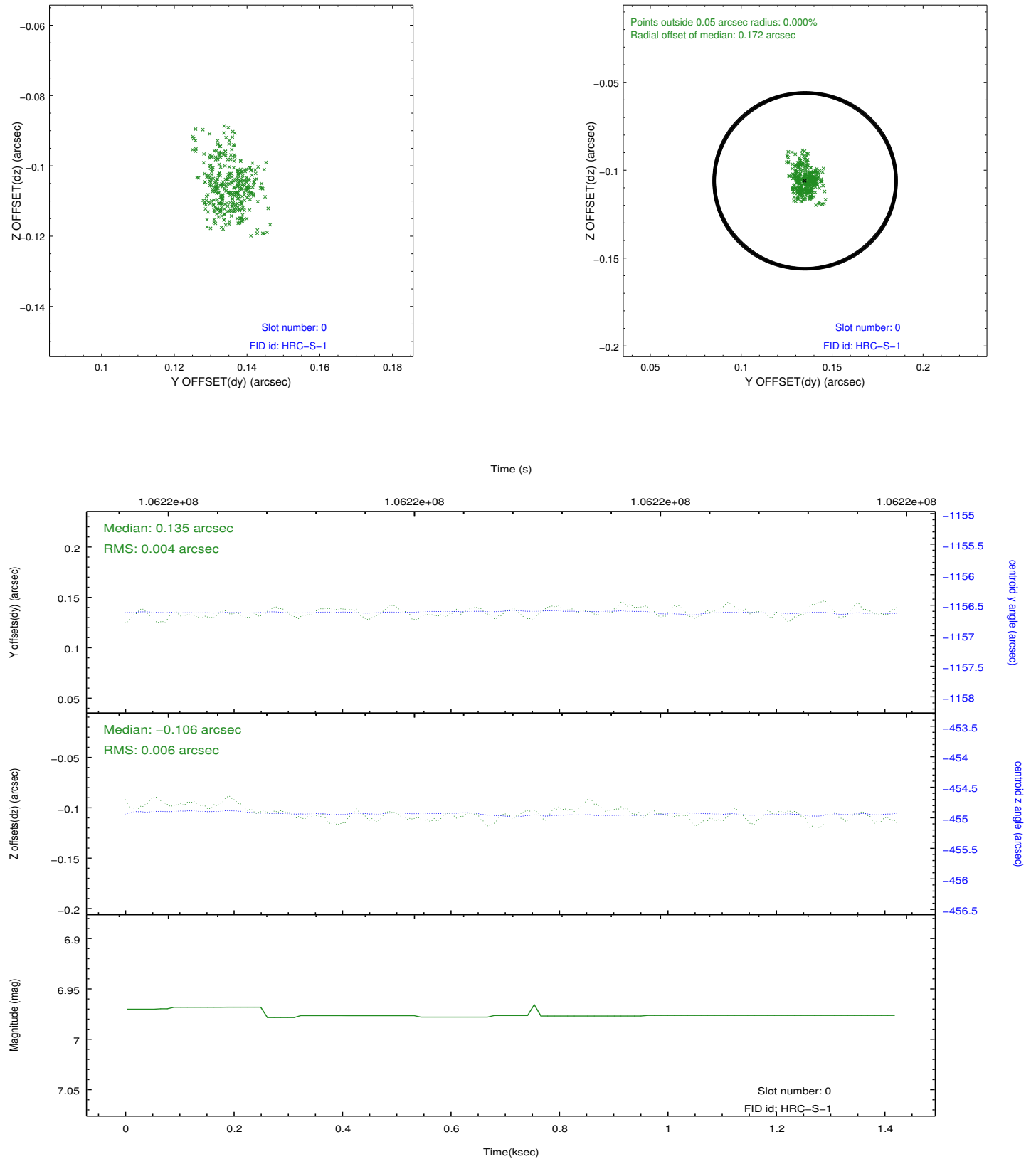


2.4.5 Slot 7

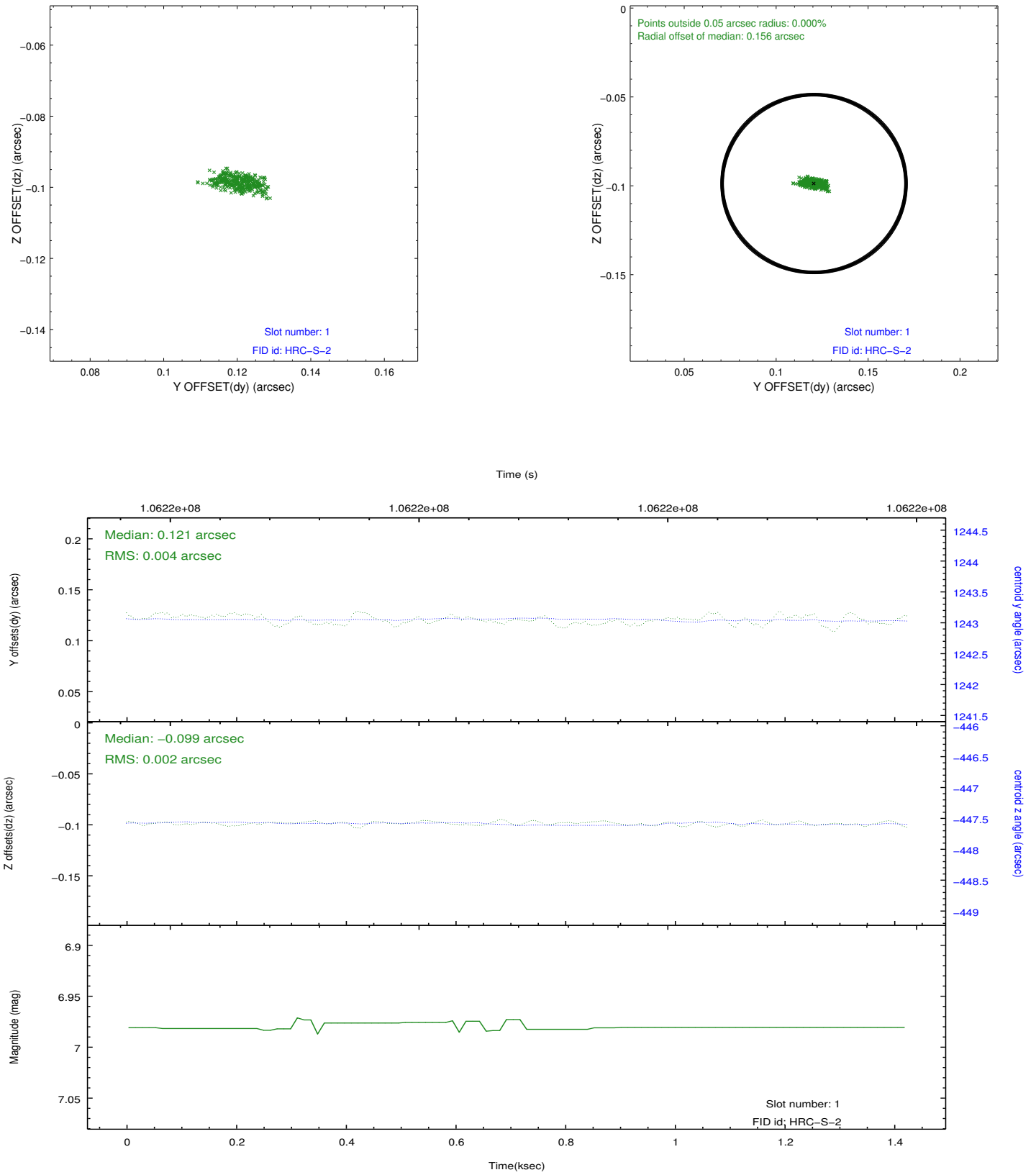


2.5 FID Slots

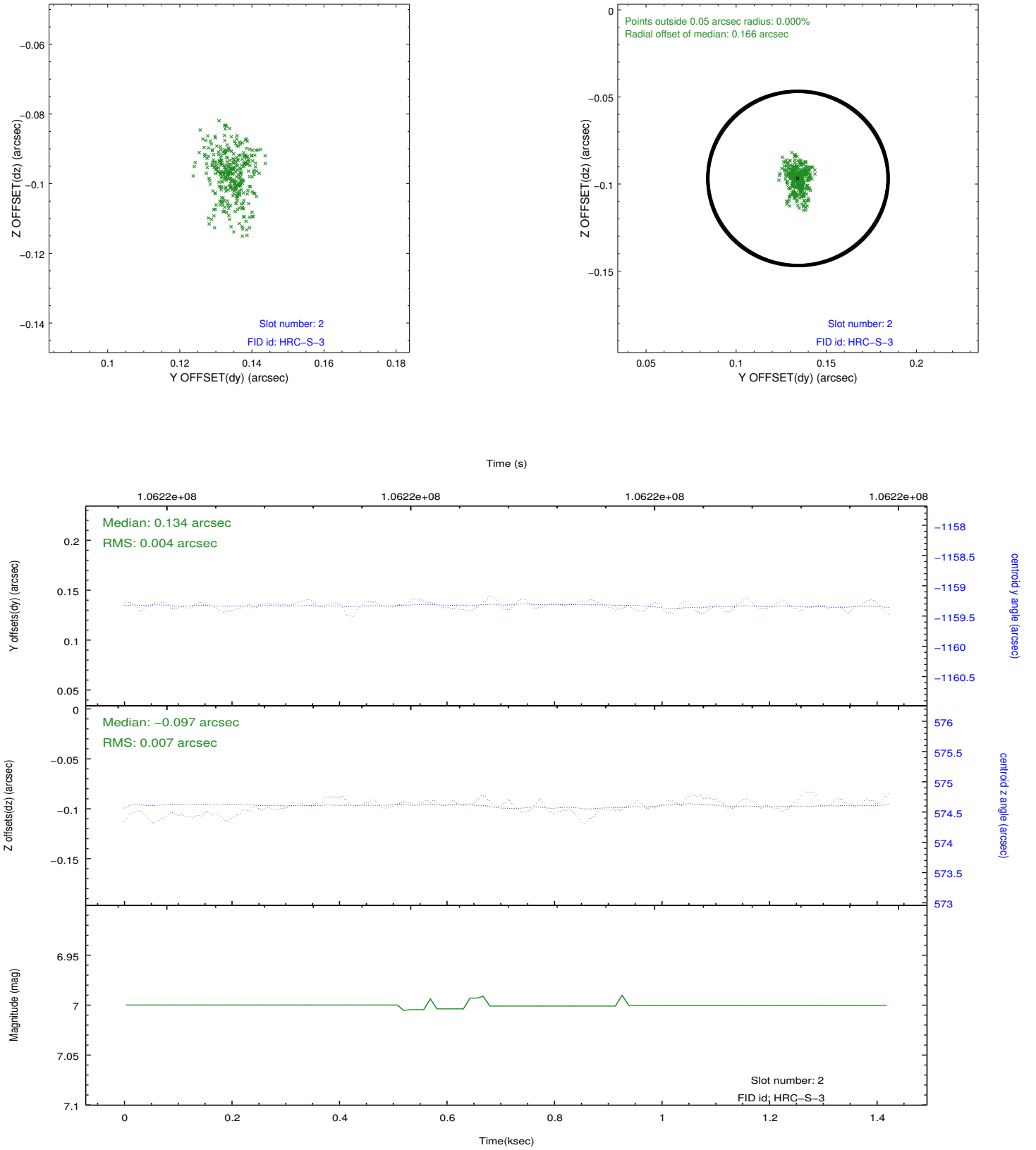
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.421

A.2 Comments

Charge time for this ObsId remains at previous value of 1.421 ks although with the current processing the charge time would have been 1.38 ksec.

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A reflection from the HRC high energy suppression filter was not properly removed and resulted in a tail visible in the image. It would require a new specification to remove events at specific positions of the dither pattern where the events may reflect off the high energy suppression filter and strike the detector.