

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17021 - L2 Version 1
Chandra X-Ray Center

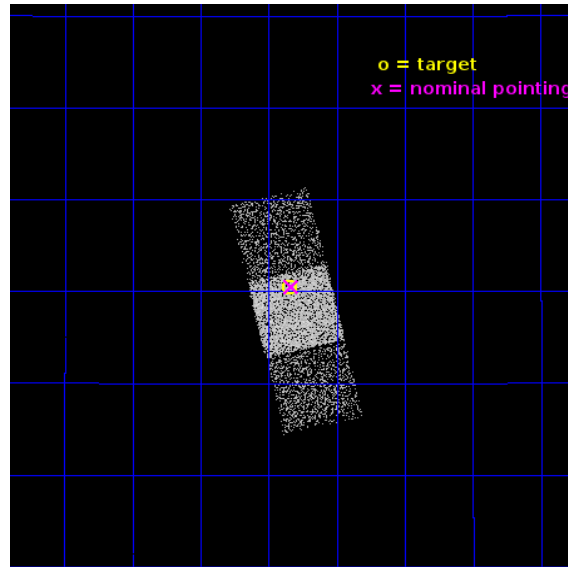
L2 Processing Date : Dec 3 2015

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1 Front

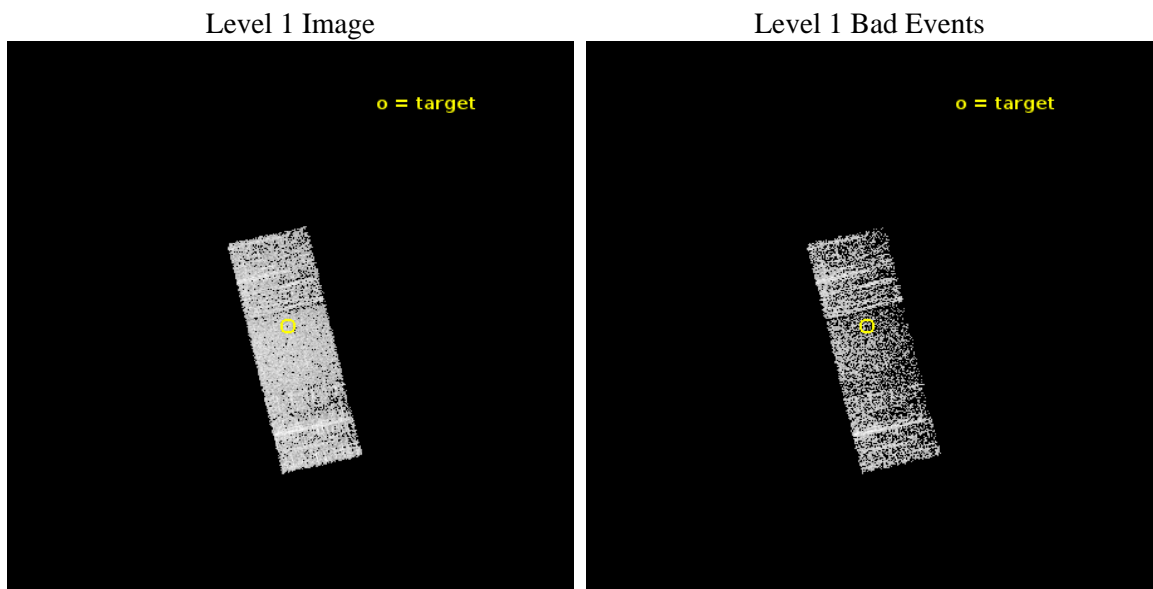
seq_num	703025	Sequence number
obs_id	17021	Observation id
title	Shielding Gas Variations in Transforming Broad Absorption Line Quasars	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J0746+1820	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	116.710833	Observer's specified target RA [deg]
dec_targ	18.341306	Observer's specified target Dec [deg]
ra_nom	116.70830346853	Nominal RA [deg]
dec_nom	18.341893275197	Nominal Dec [deg]
roll_nom	76.967993182691	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2576.1000199318	Sum of GTIs [s]
liveltime	2542.4413766741	Livetime [s]
ontime6	2576.1000199318	Sum of GTIs [s]
ontime7	2576.1000199318	Sum of GTIs [s]
ontime8	2576.1000199318	Sum of GTIs [s]
l2events	10337	Number of level 2 events



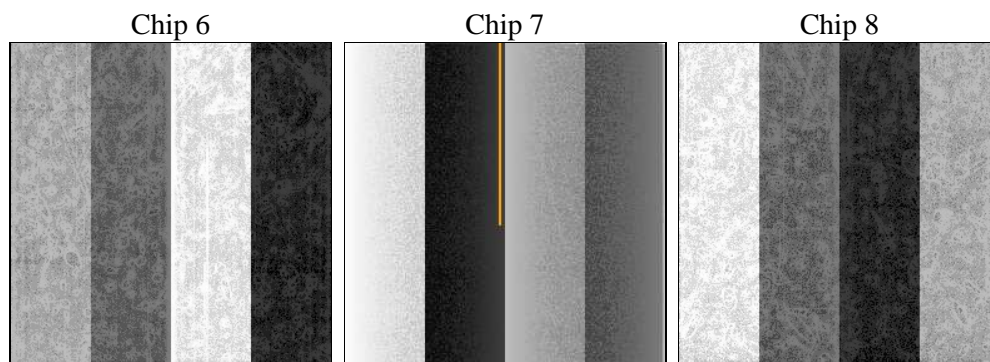
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	2576.1000199318	Sum of GTIs [s]
caldbver	4.6.10a	 	ontime6	2576.1000199318	Sum of GTIs [s]
date	2015-12-03T16:49:29	Date and time of file creation	ontime7	2576.1000199318	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	2576.1000199318	Sum of GTIs [s]
			l1events	46408	Number of level 1 events

2.1.4 Events

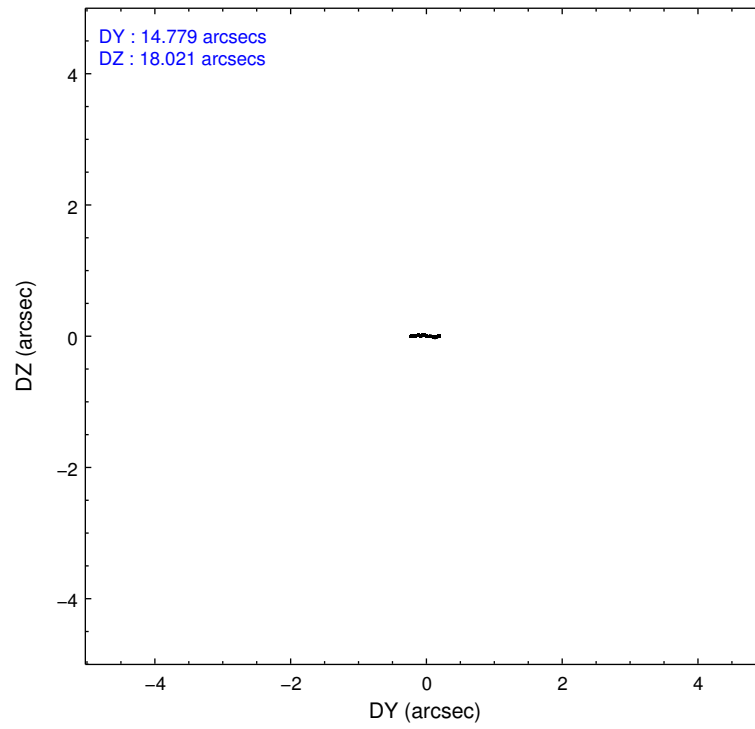
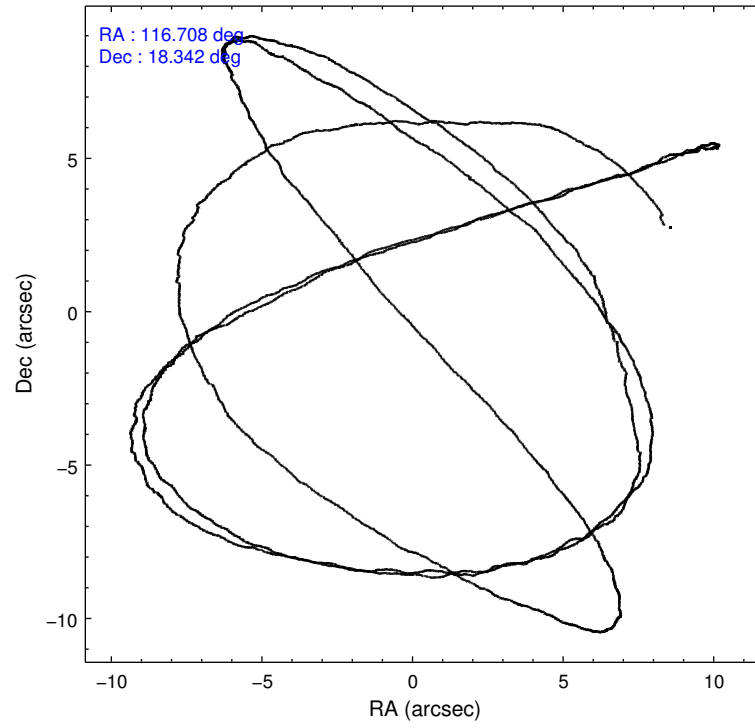
	ccd 6	ccd 7	ccd 8
level 1 events	13816	15888	16704
rejected events	12237	8312	12143
rejected %	88%	52%	72%

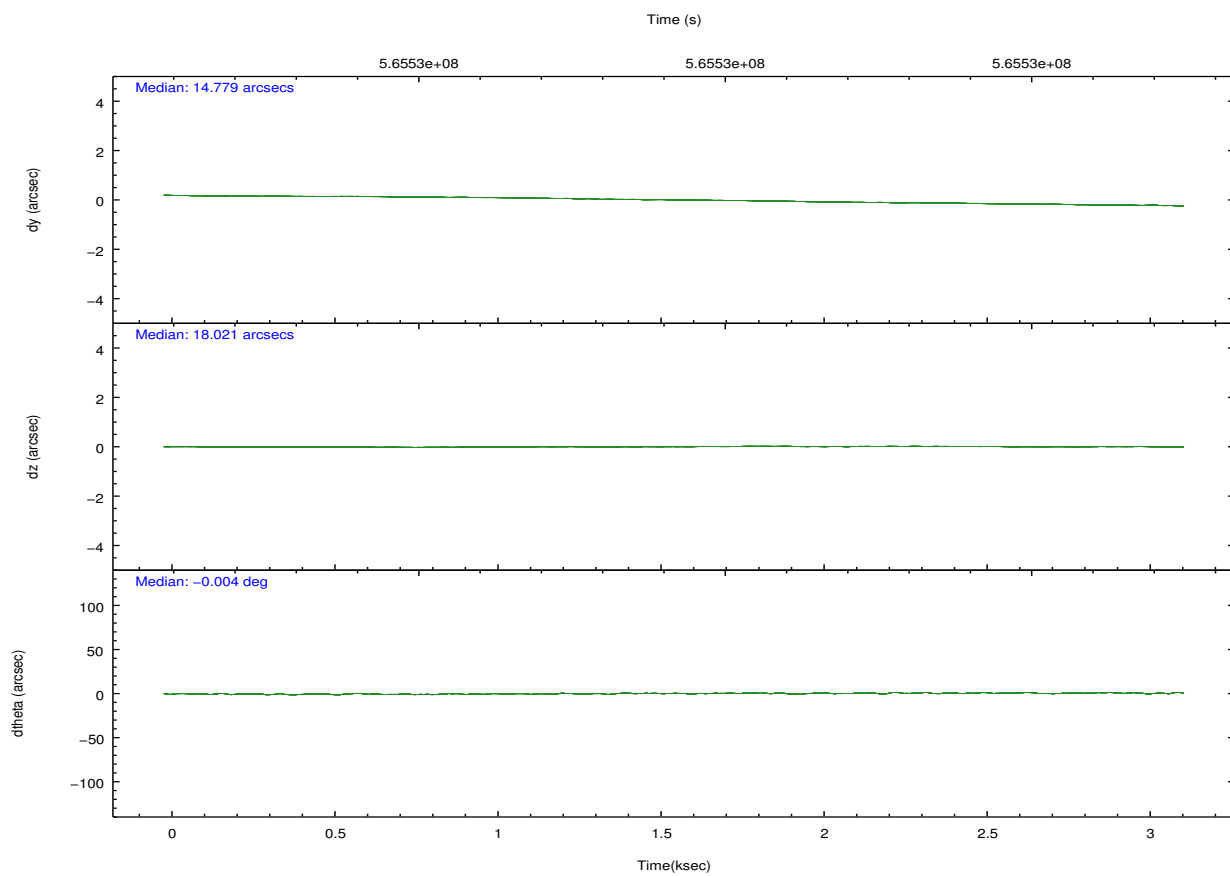
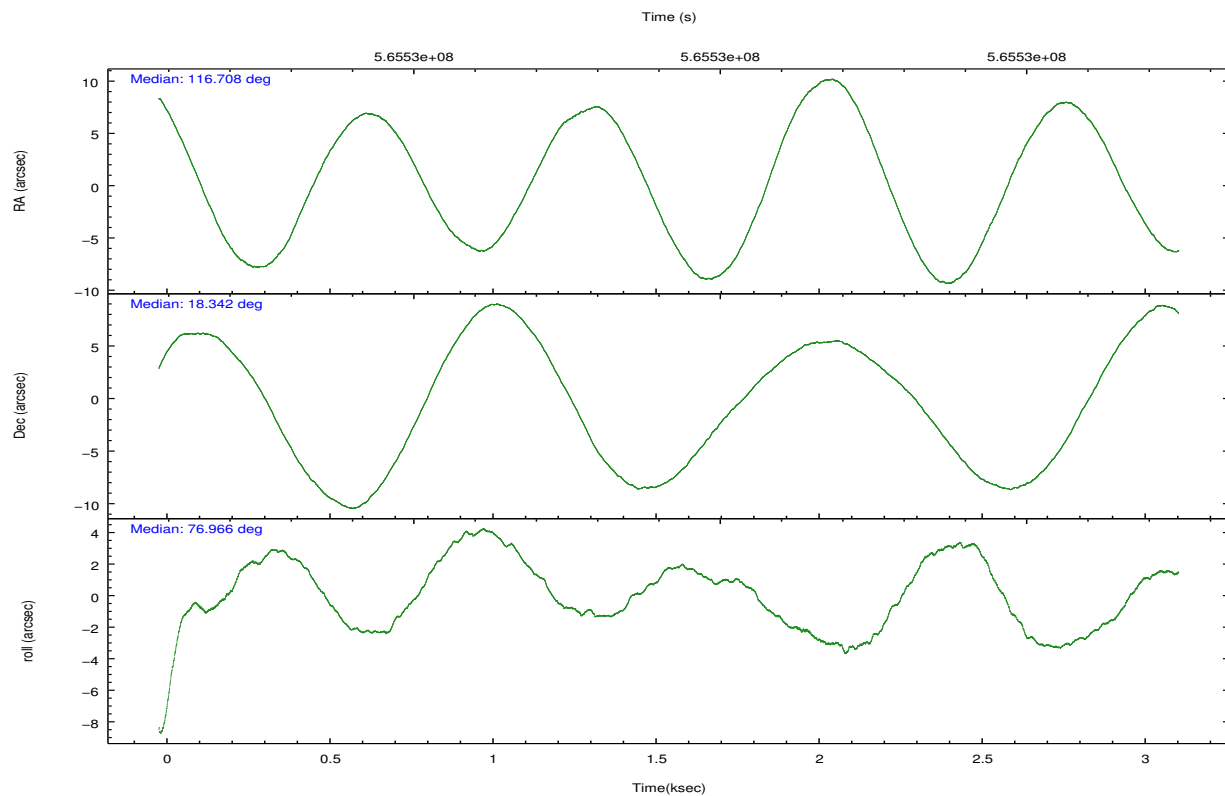
	ccd 6	ccd 7	ccd 8
grade 0 events	589	663	1310
	4%	4%	7%
grade 1 events	6	19	12
	0%	0%	0%
grade 2 events	352	1700	1169
	2%	10%	6%
grade 3 events	167	564	453
	1%	3%	2%
grade 4 events	134	586	425
	0%	3%	2%
grade 5 events	594	1503	843
	4%	9%	5%
grade 6 events	341	4078	1214
	2%	25%	7%
grade 7 events	11633	6775	11278
	84%	42%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	116.717192	116.7083034685336	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.315637	18.34189327519662	Alternating exposures requested	N	N
[deg] Pointing Roll	76.808573	76.96799318269136	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	565527900.184000	565526771.87497			
Observation start date	2015-12-03T11:03:52	2015-12-03T10:46:11			
[s] Observation end time (MET)	565530400.184000	565531295.7127301			
Observation end date	2015-12-03T11:45:32	2015-12-03T12:01:35			
Read mode	TIMED	TIMED			

2.3 Aspect



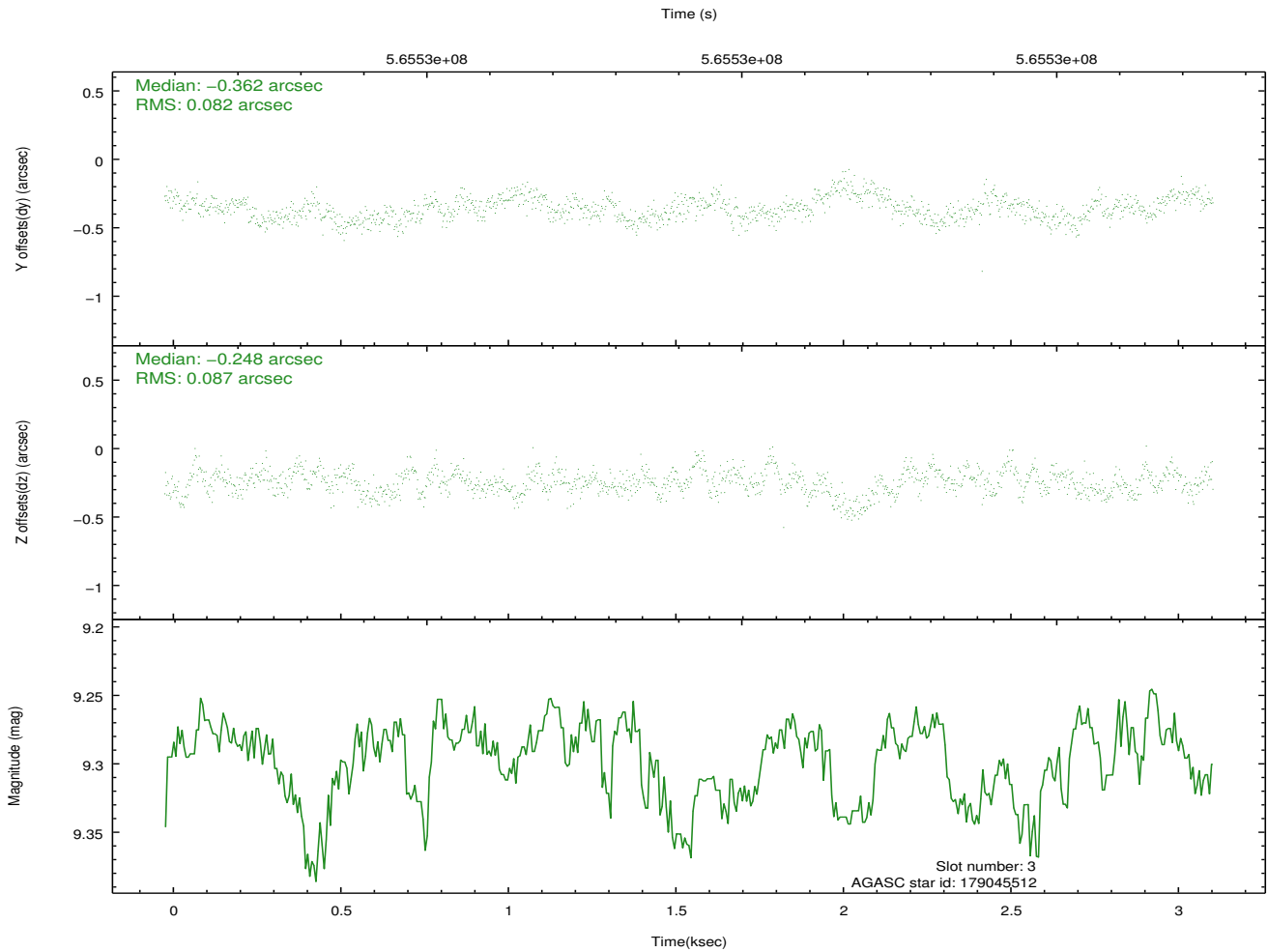
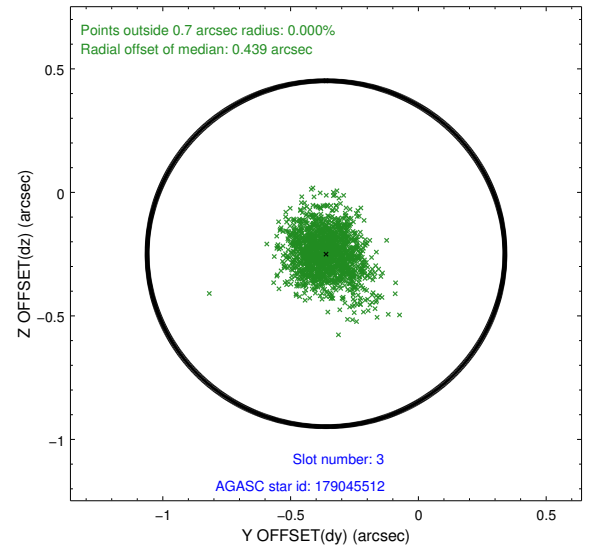
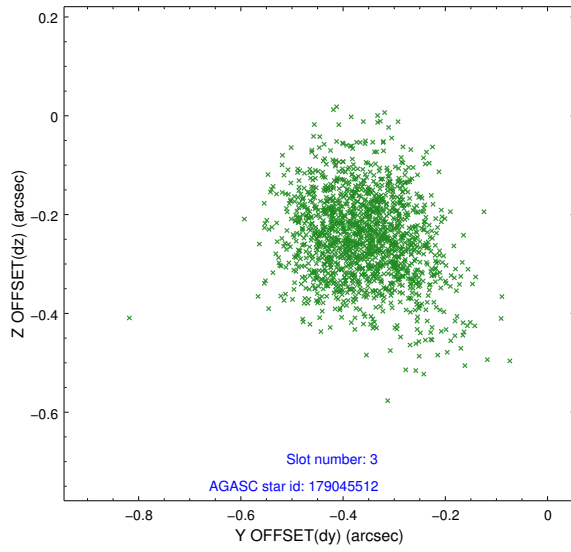


Slot Statistics

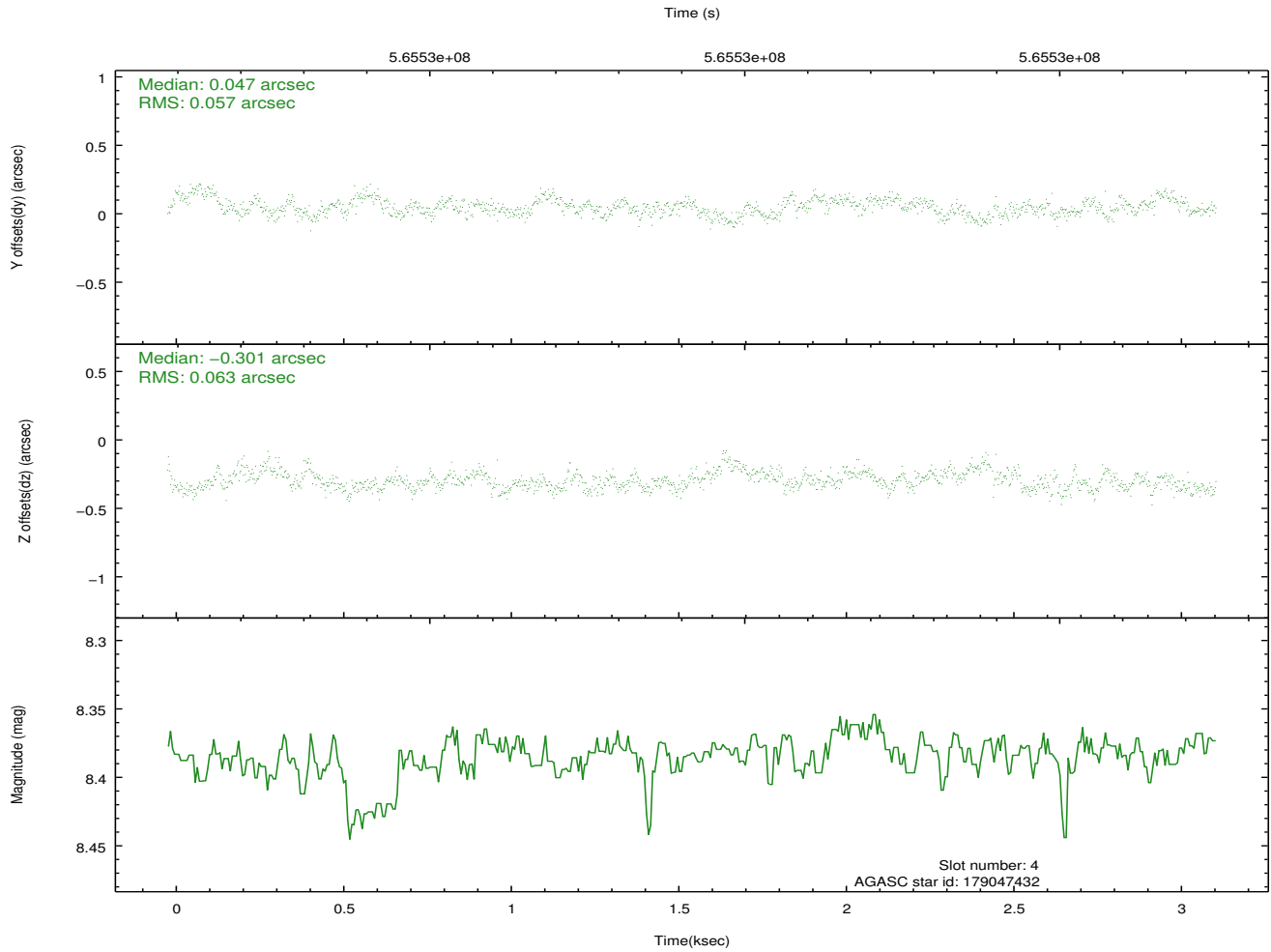
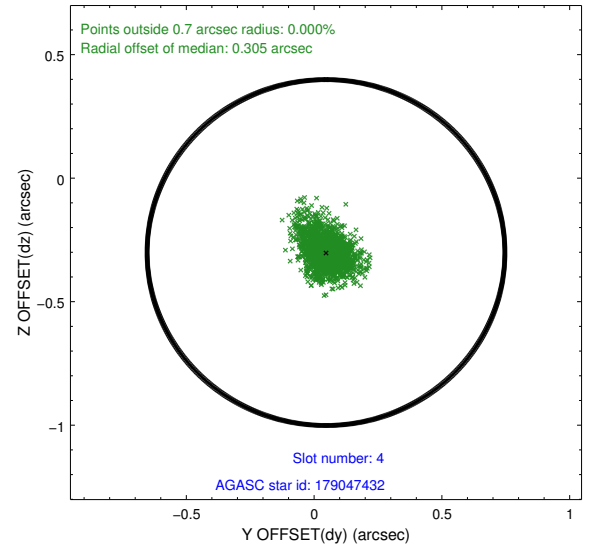
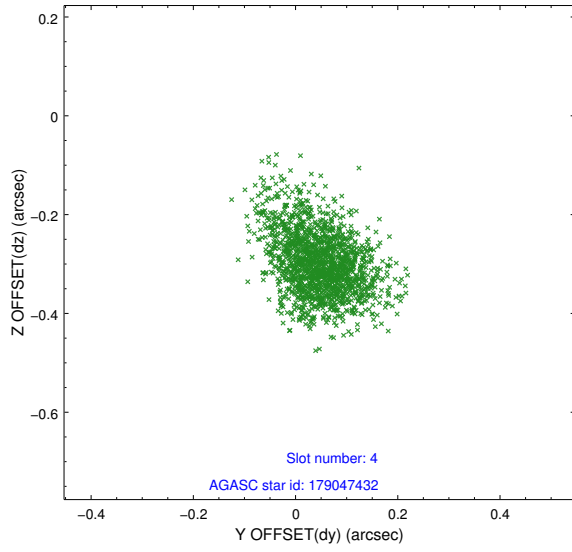
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	763	-0.153	-0.131	0.008	0.013	0.000000	0.000000	-767.90	-1739.61
1	FID		ACIS-S-4	7.22	763	0.407	0.109	0.006	0.011	0.000000	0.000000	2145.01	166.98
2	FID		ACIS-S-5	7.24	763	-0.285	0.031	0.008	0.012	0.000000	0.000000	-1818.25	162.92
3	GUIDE	used	179045512	9.29	1525	-0.362	-0.248	0.124	0.206	116.312168	18.681900	969.28	1645.56
4	GUIDE	used	179047432	8.38	1522	0.047	-0.301	0.089	0.153	116.105515	18.183204	-938.40	1928.91
5	GUIDE	used	179048720	7.97	1527	0.380	-0.109	0.078	0.131	116.199671	17.812520	-2166.46	1315.04
6	GUIDE	used	179051824	9.08	1523	-0.318	0.180	0.136	0.222	116.881806	17.870067	-1434.85	-914.47
7	GUIDE	used	179058328	8.38	1525	0.252	0.478	0.075	0.121	117.286492	18.022342	-581.30	-2138.22

2.4 Star Slots

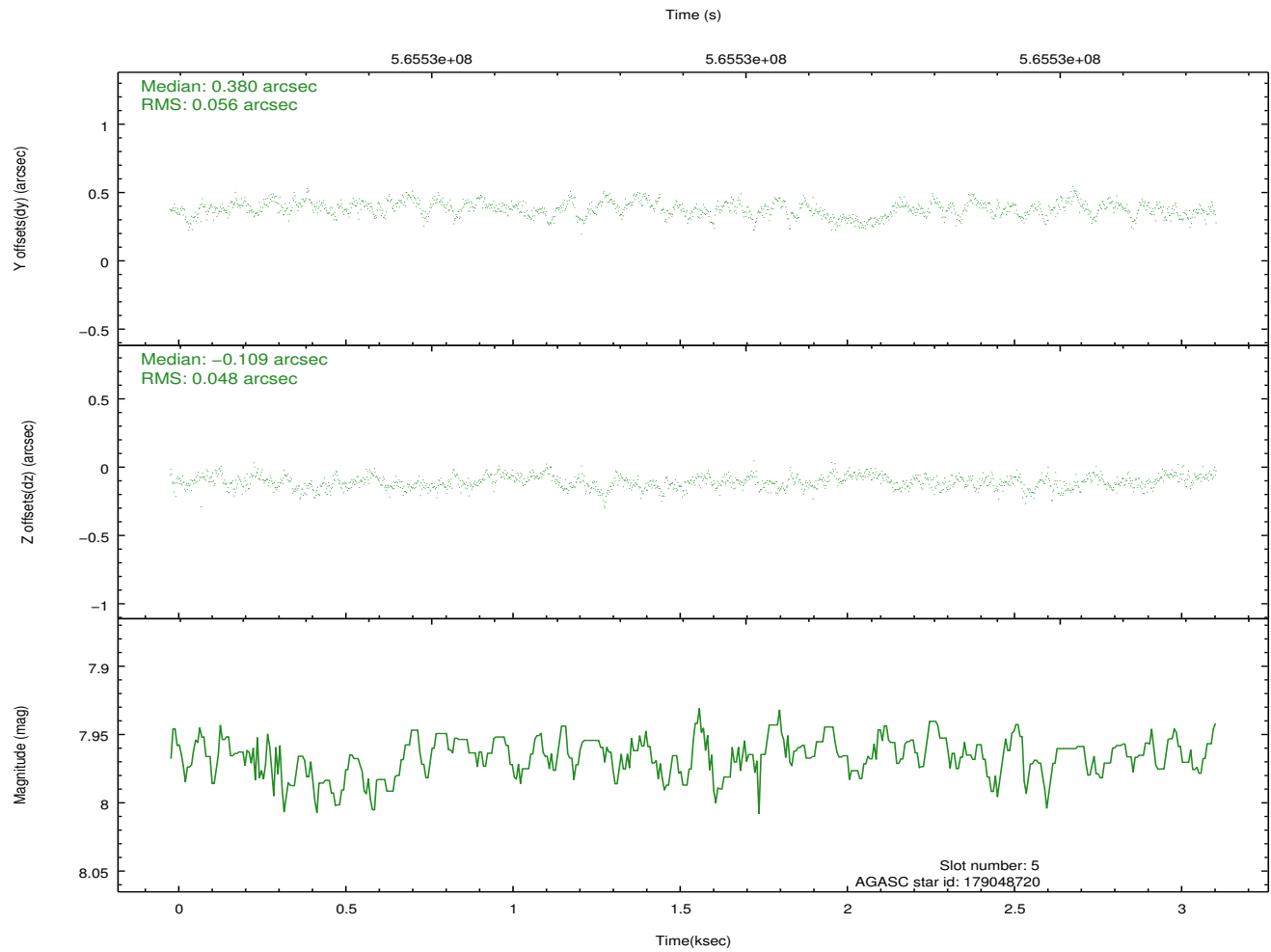
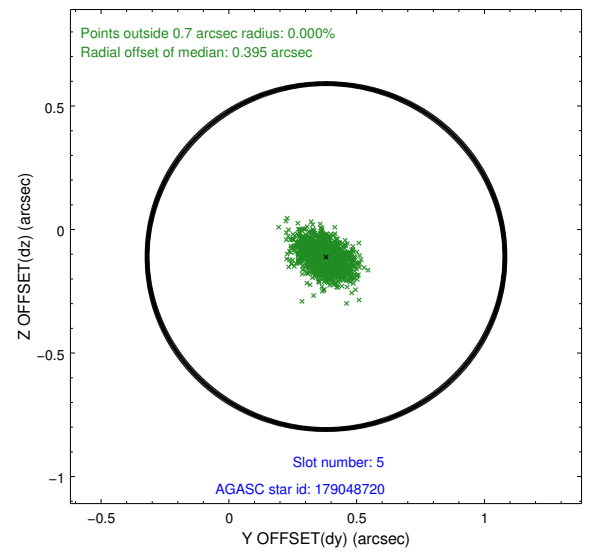
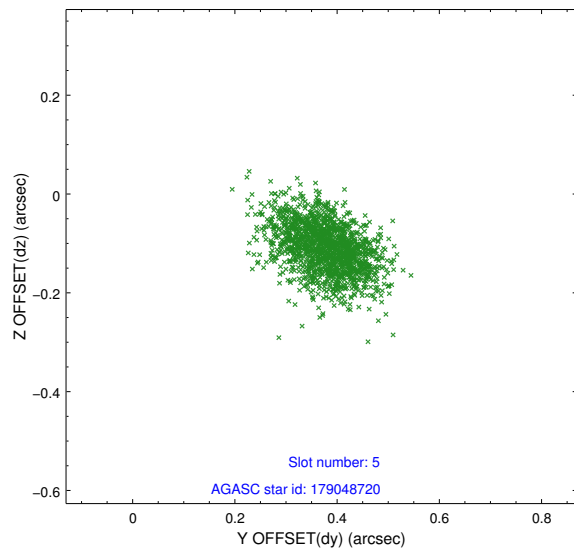
2.4.1 Slot 3



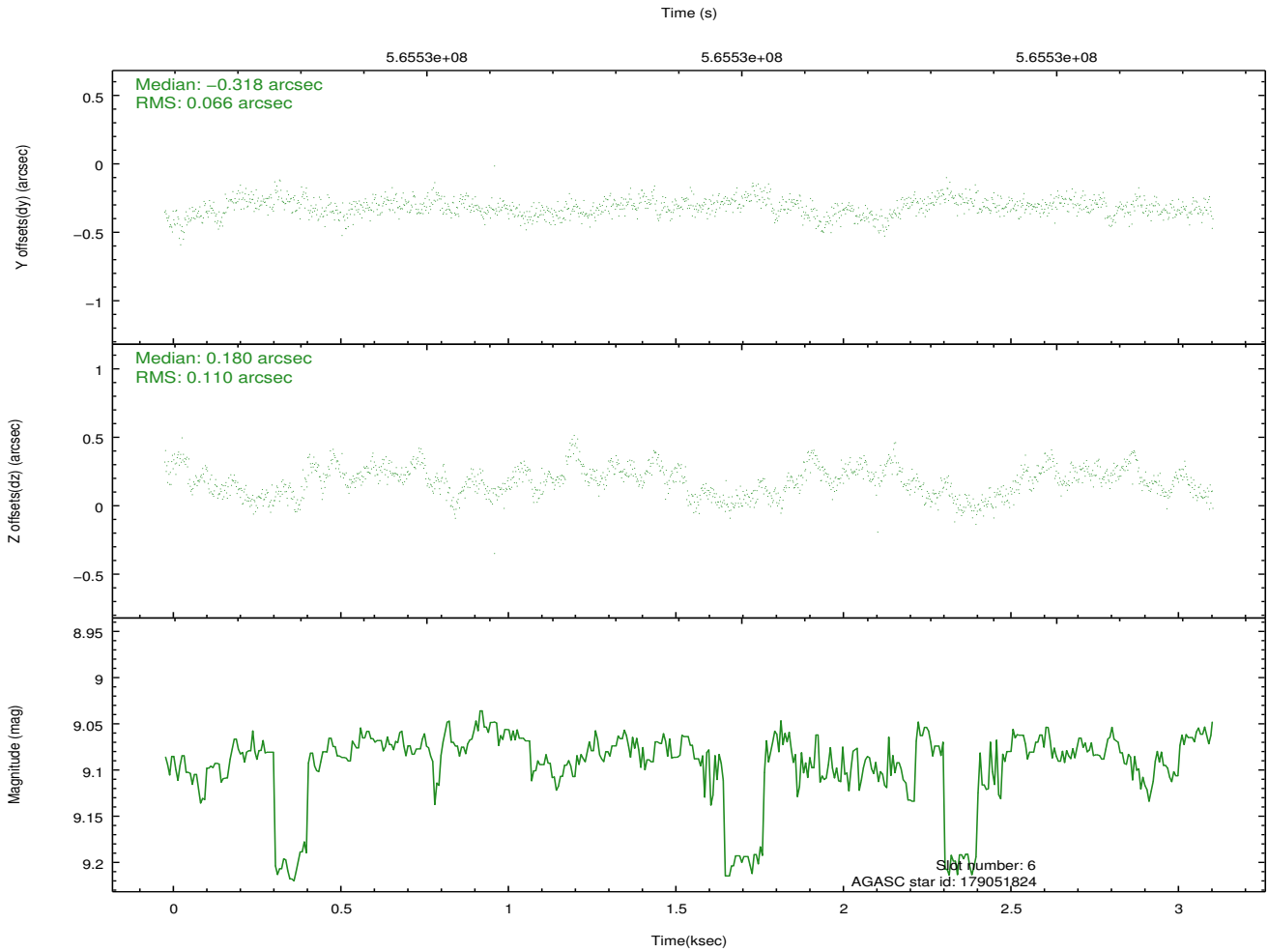
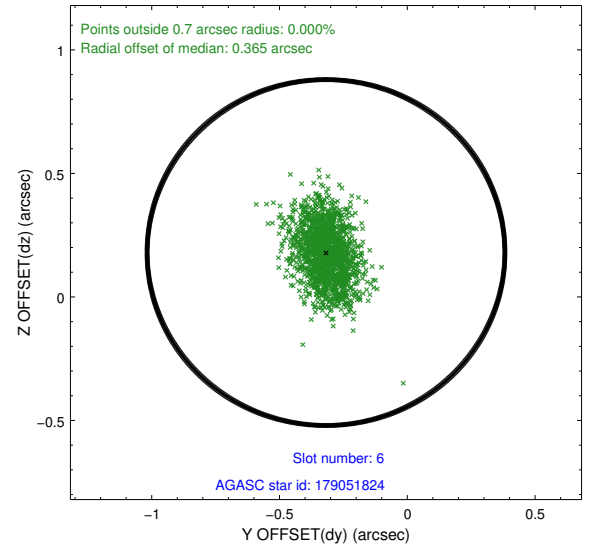
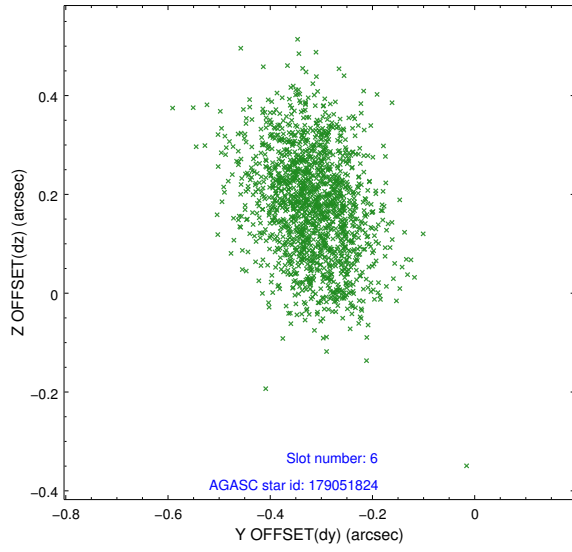
2.4.2 Slot 4



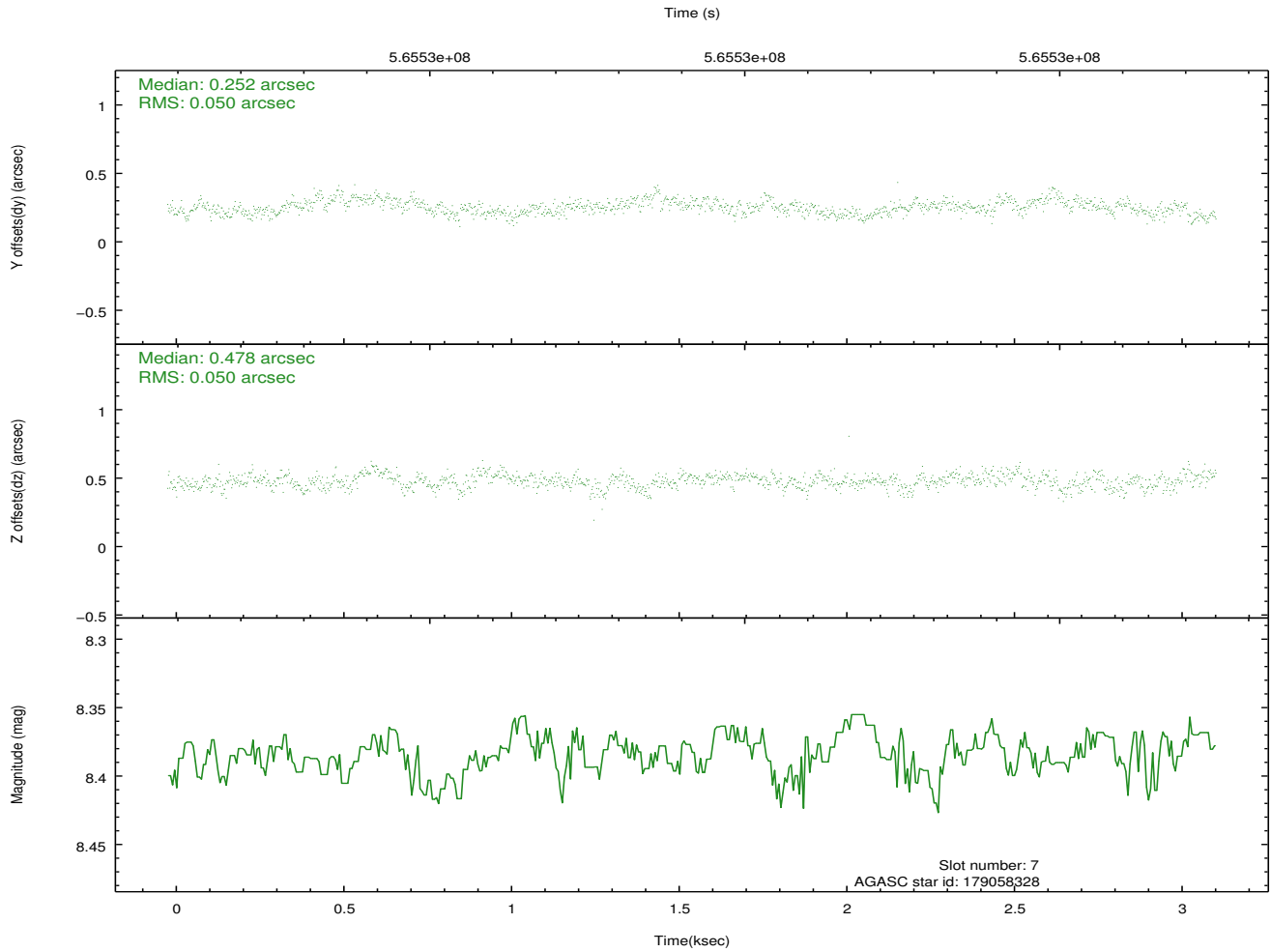
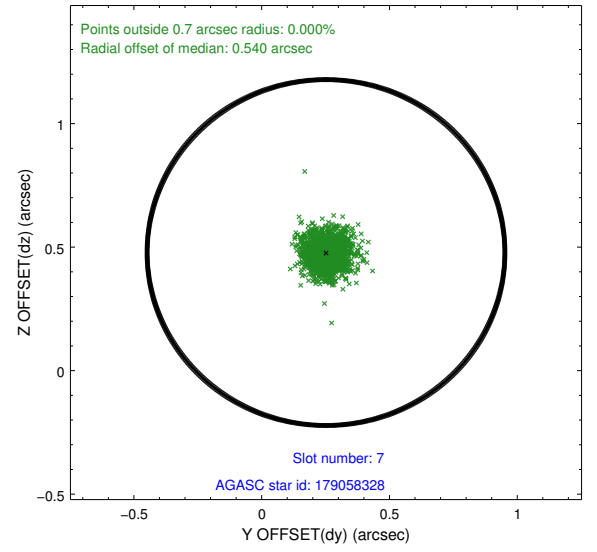
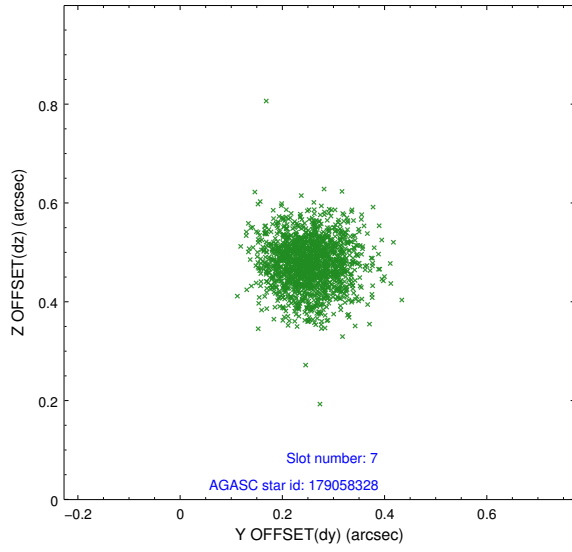
2.4.3 Slot 5



2.4.4 Slot 6

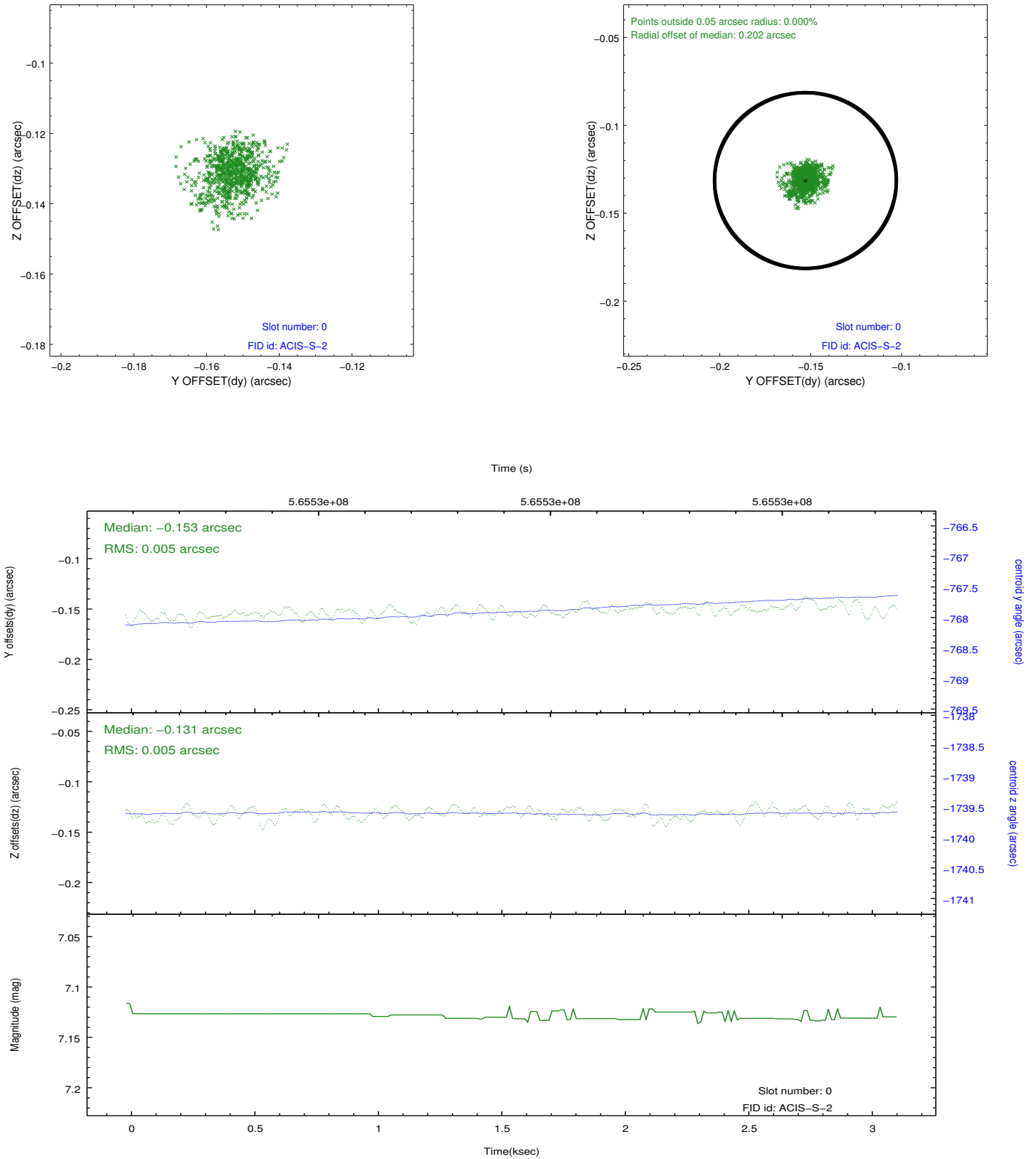


2.4.5 Slot 7

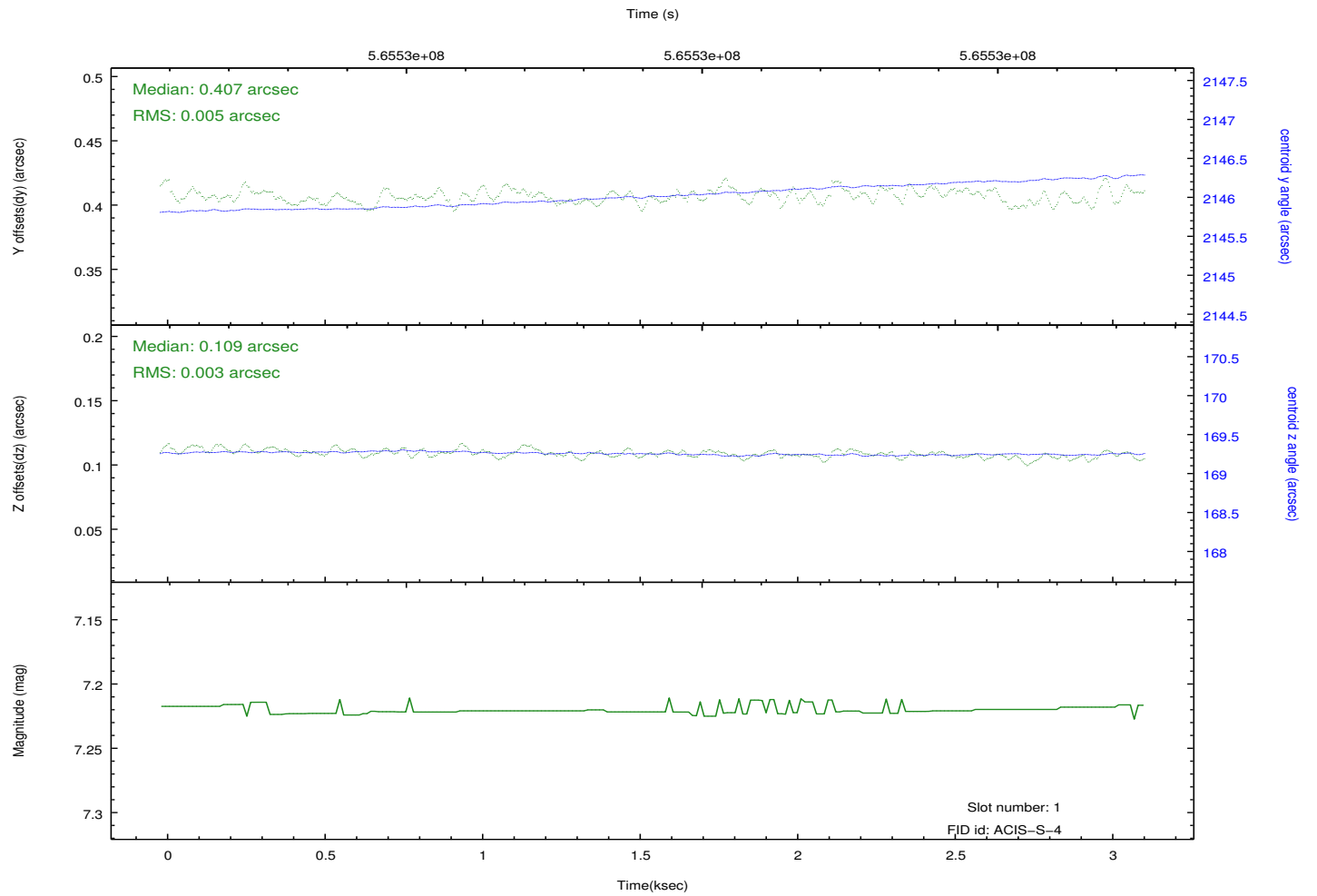
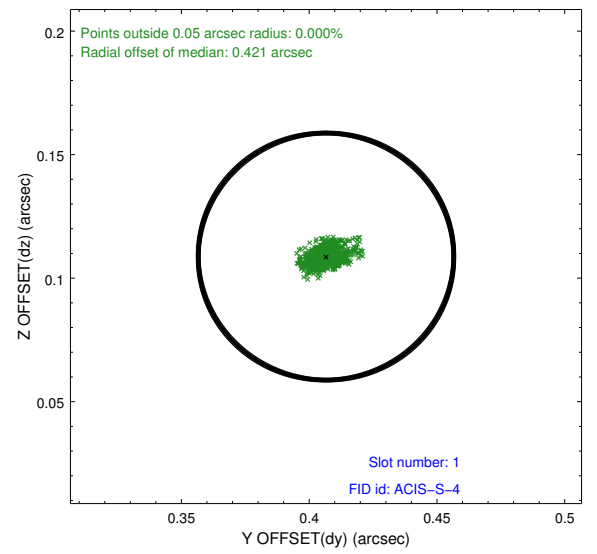
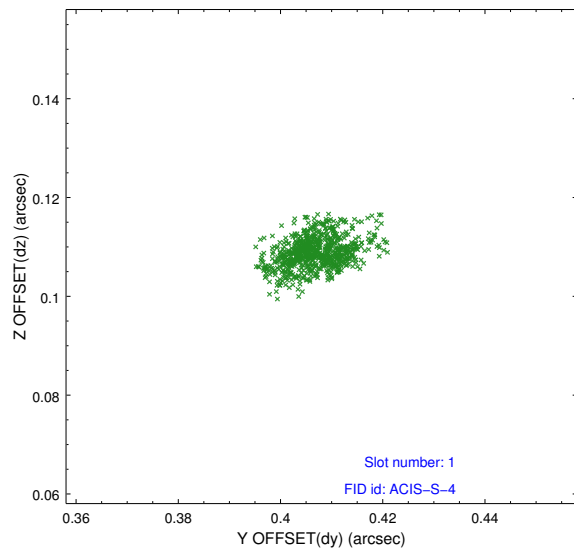


2.5 FID Slots

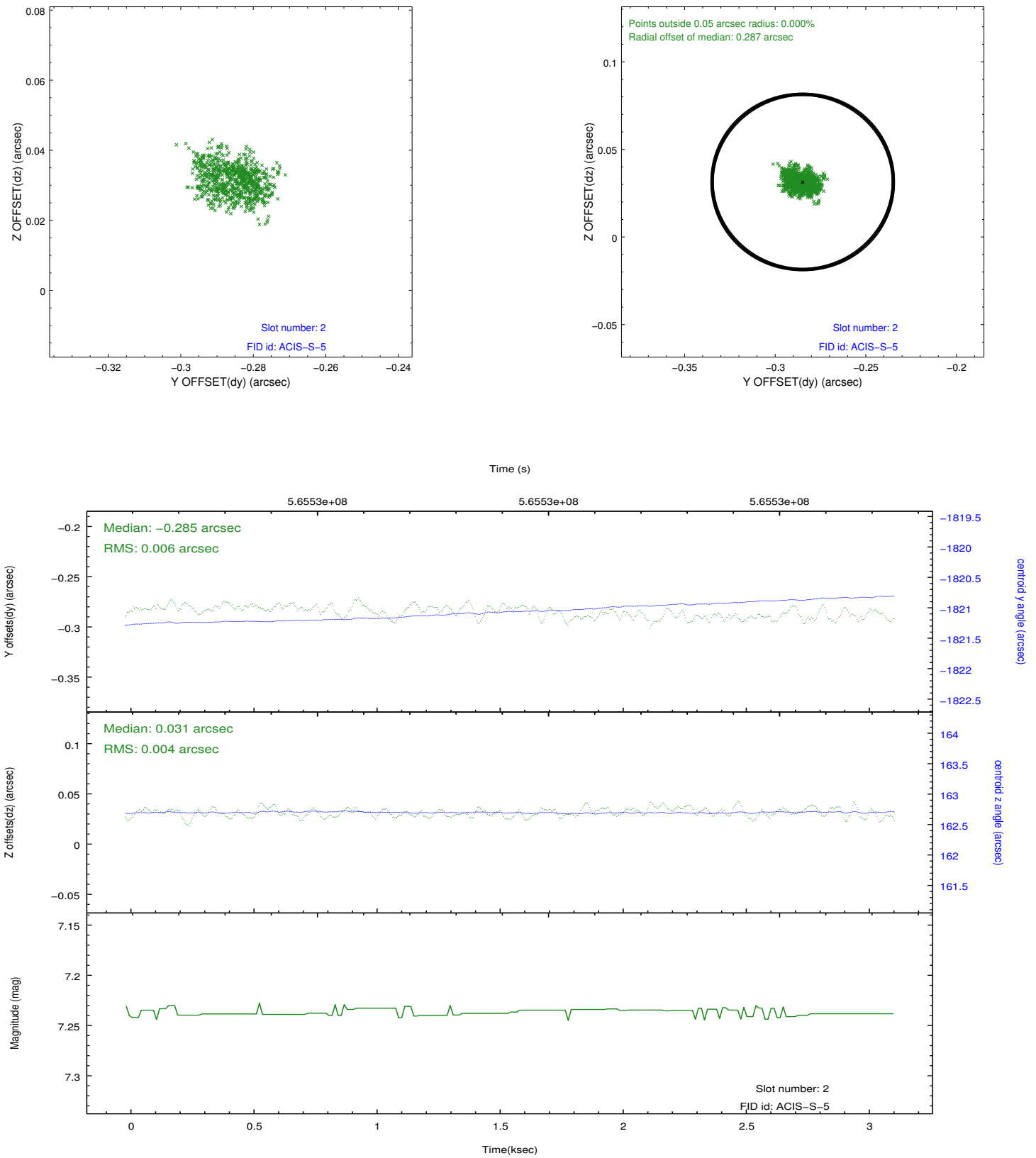
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5761000199318

A.2 Comments