

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17099 - L2 Version 1
Chandra X-Ray Center

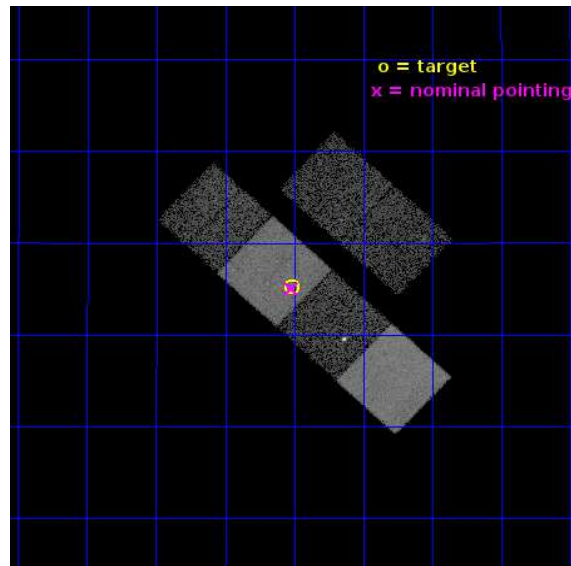
L2 Processing Date : Apr 23 2016

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1 Front

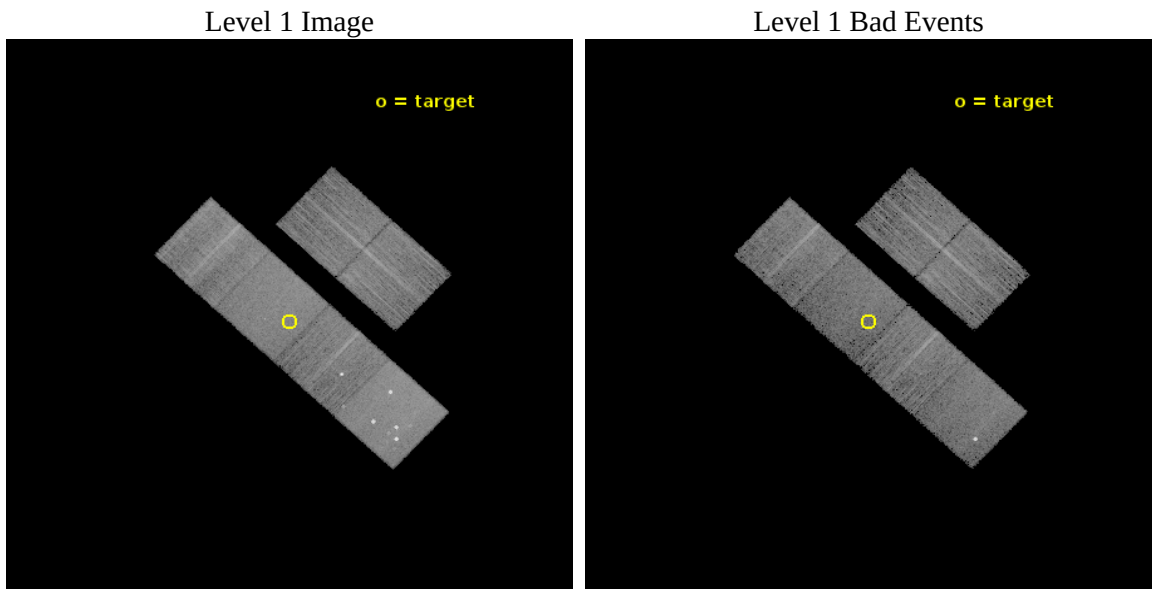
seq_num	703103	Sequence number
obs_id	17099	Observation id
title	Probing the Physics of Quasar Outflows using Mini-LoBALs	Proposal
observer	Professor Karen Leighly	Principal investigator
object	LBQS 1240+1551	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.75375	Observer's specified target RA [deg]
dec_targ	15.586389	Observer's specified target Dec [deg]
ra_nom	190.75500609547	Nominal RA [deg]
dec_nom	15.583950695868	Nominal Dec [deg]
roll_nom	223.15632110804	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10537.029378176	Sum of GTIs [s]
livetime	10403.603167552	Livetime [s]
ontime2	10533.82934773	Sum of GTIs [s]
ontime3	10536.906258106	Sum of GTIs [s]
ontime5	10536.988338113	Sum of GTIs [s]
ontime6	10536.947298169	Sum of GTIs [s]
ontime7	10537.029378176	Sum of GTIs [s]
ontime8	10536.865218163	Sum of GTIs [s]
l2events	108224	Number of level 2 events



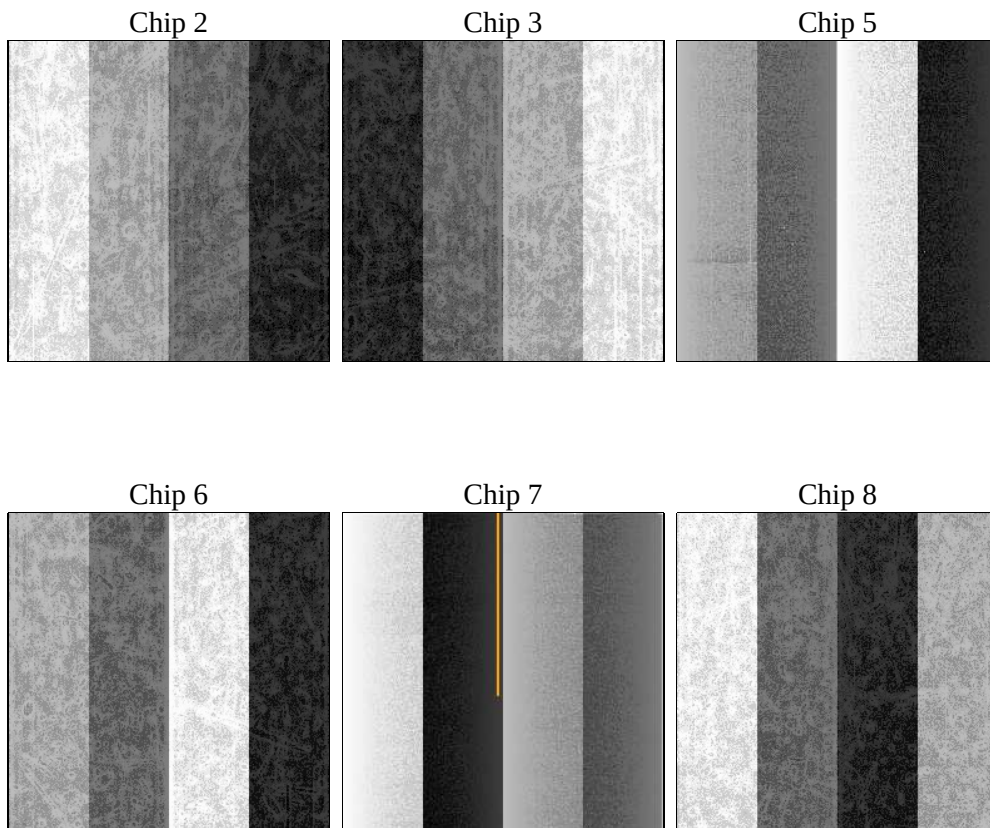
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10600.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	10537.029378176	Sum of GTIs [s]
caldsver	4.7.1	 	ontime2	10533.82934773	Sum of GTIs [s]
date	2016-04-23T17:01:59	Date and time of file creation	ontime3	10536.906258106	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	10536.988338113	Sum of GTIs [s]
			ontime6	10536.947298169	Sum of GTIs [s]
			ontime7	10537.029378176	Sum of GTIs [s]
			ontime8	10536.865218163	Sum of GTIs [s]
			l1events	478041	Number of level 1 events

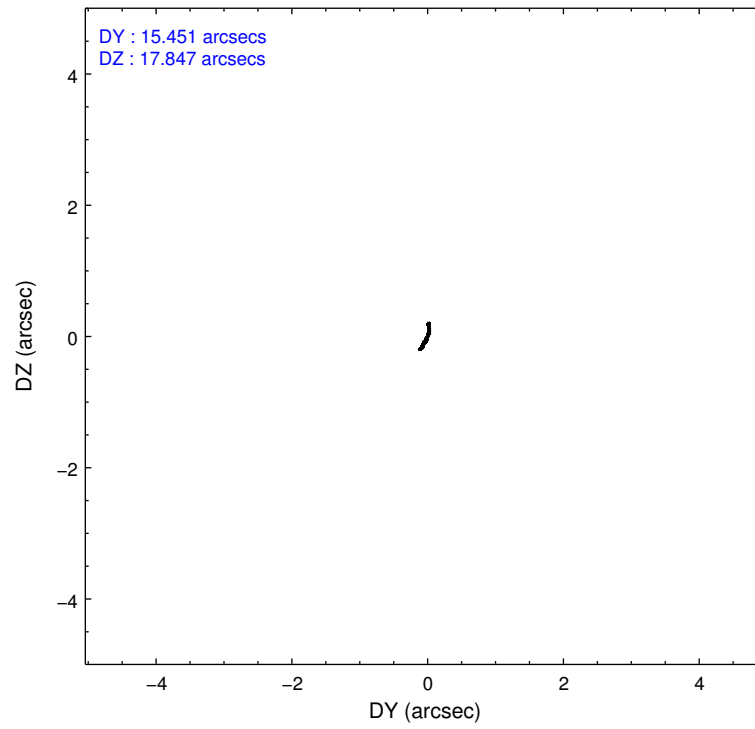
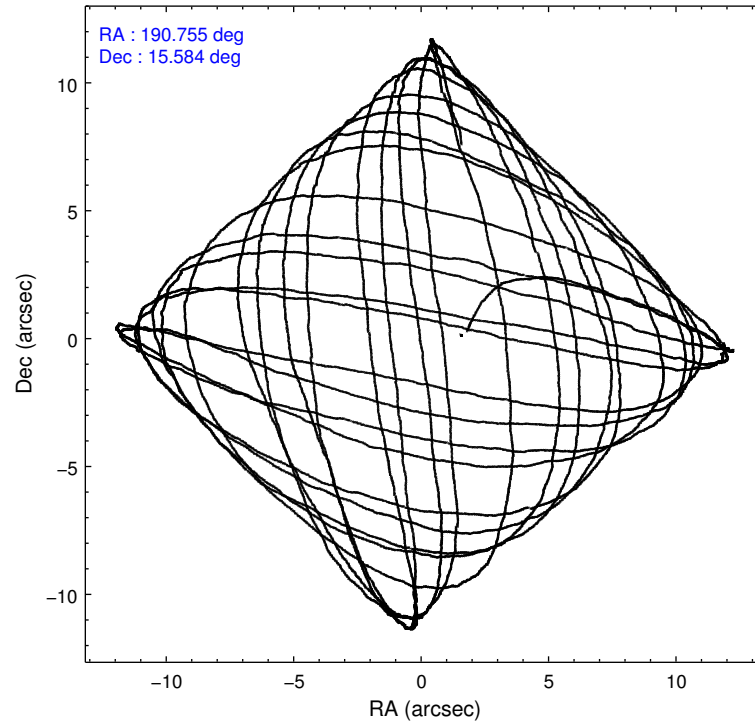
2.1.4 Events

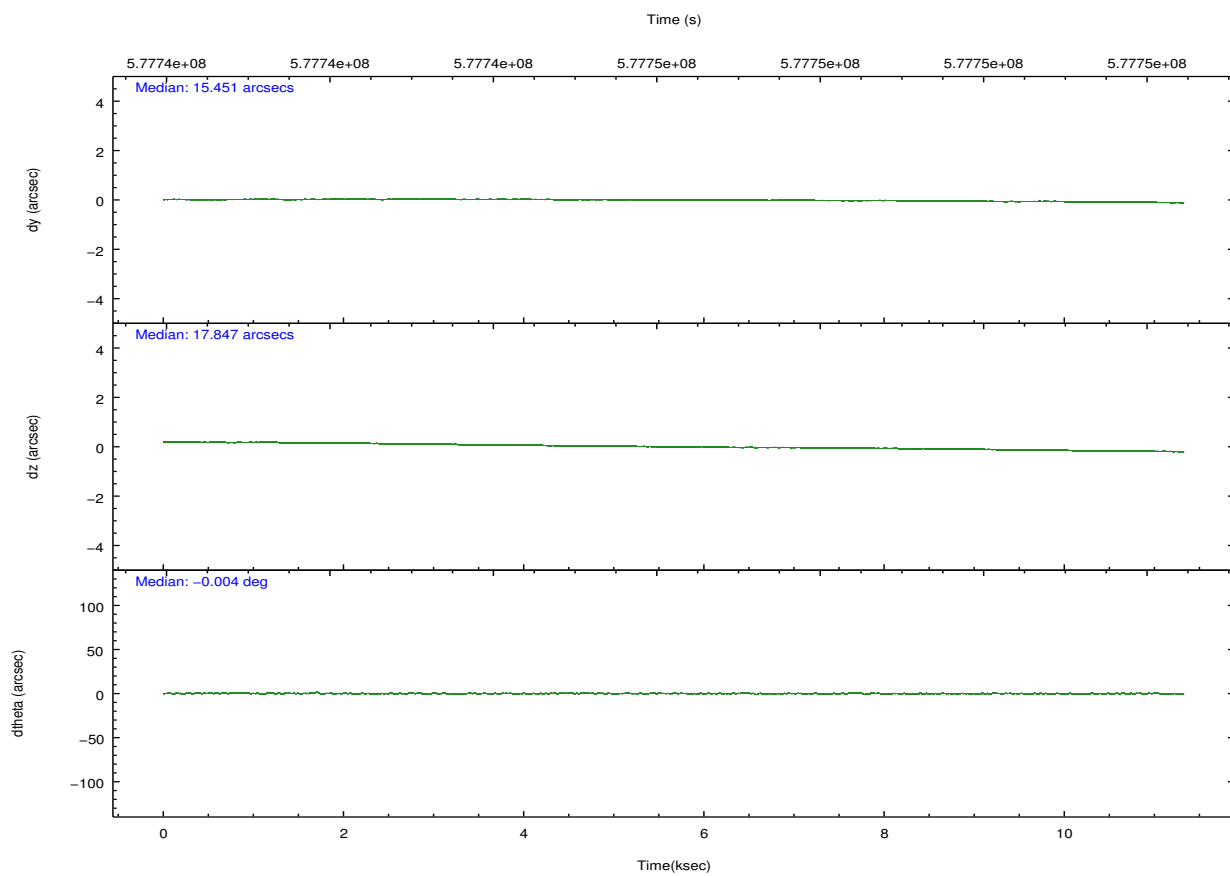
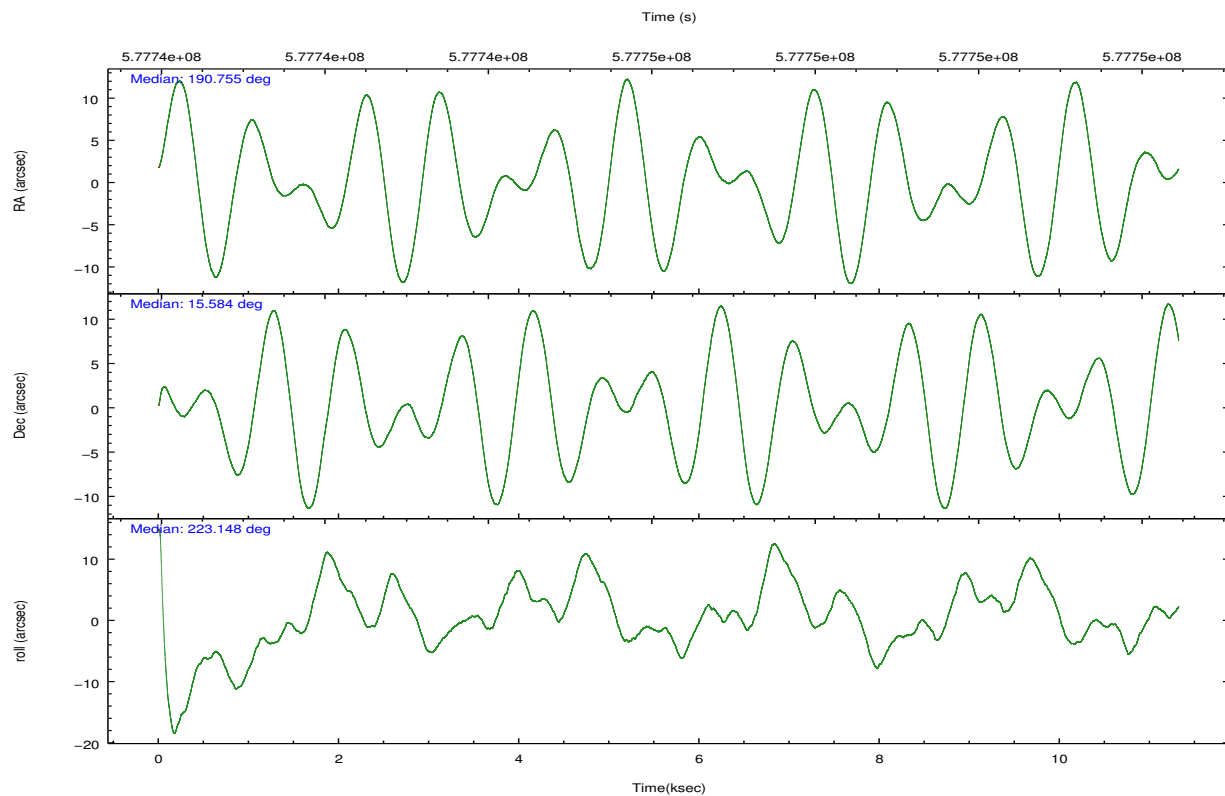
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	69614	62219	113111	67821	82905	82371	grade 0 events	2444	2302	12401	4856	2965	6065
rejected events	62720	55795	55755	57459	47339	60882		3%	3%	10%	7%	3%	7%
rejected %	90%	89%	49%	84%	57%	73%	grade 1 events	33	37	251	36	109	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1622	1378	15436	2028	7503	5423
								2%	2%	13%	2%	9%	6%
							grade 3 events	675	683	1471	781	2810	2194
								0%	1%	1%	1%	3%	2%
							grade 4 events	740	699	1336	826	2708	2031
								1%	1%	1%	1%	3%	2%
							grade 5 events	2597	3043	6930	2977	8157	4478
								3%	4%	6%	4%	9%	5%
							grade 6 events	1419	1365	26736	1877	19603	5778
								2%	2%	23%	2%	23%	7%
							grade 7 events	60084	52712	48550	54440	39050	56345
								86%	84%	42%	80%	47%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	190.762856	190.7550060954694	CCD I2 on	O1	Y
[deg] Pointing Dec	15.610302	15.58395069586773	CCD I3 on	O2	Y
[deg] Pointing Roll	222.997552	223.1563211080443	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	577741270.184000	577740043.66803	CCD S5 on	N	N
Observation start date	2016-04-22T19:40:02	2016-04-22T19:20:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	577751870.184000	577752428.23124	On-chip summing requested	N	N
Observation end date	2016-04-22T22:36:42	2016-04-22T22:47:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



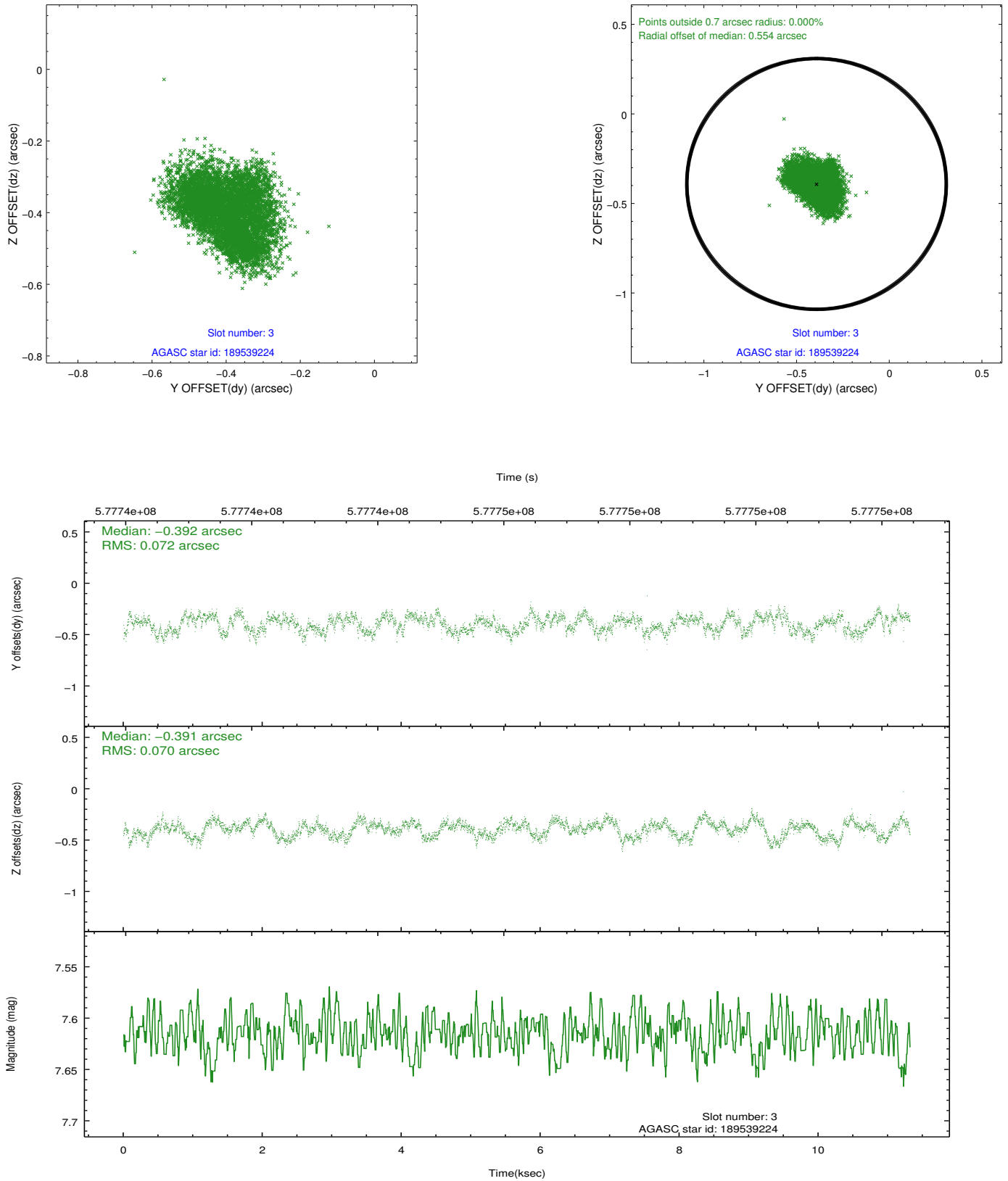


Slot Statistics

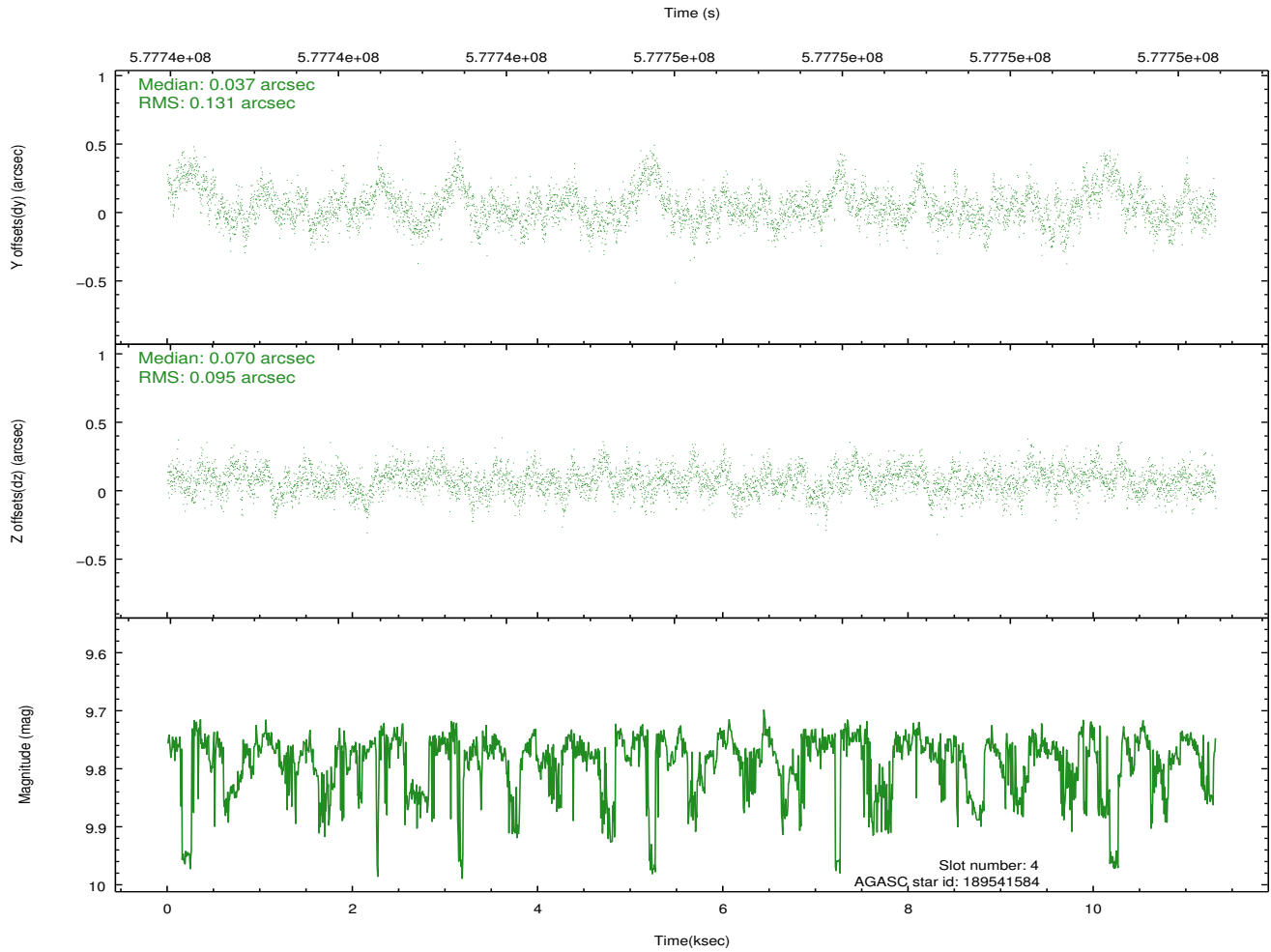
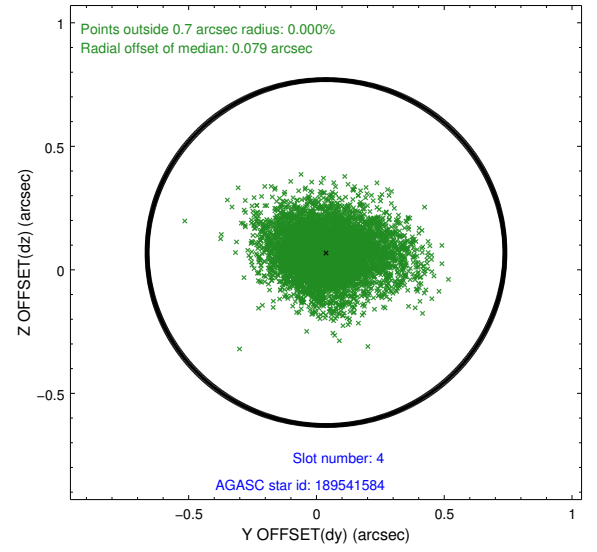
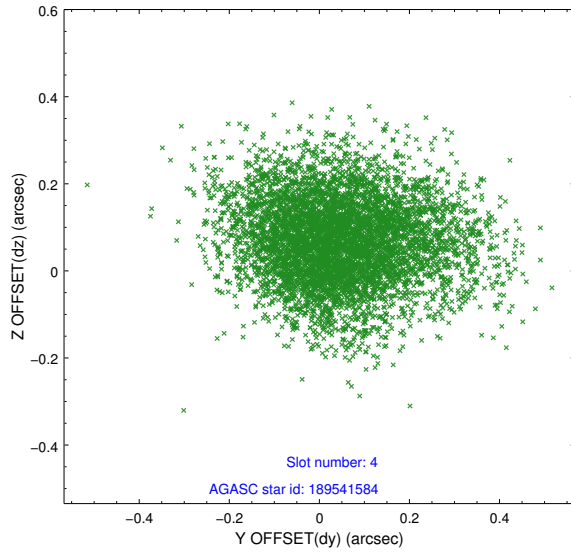
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	2760	-0.179	-0.134	0.007	0.011	0.000000	0.000000	-768.61	-1739.38
1	FID		ACIS-S-4	7.22	2761	0.435	0.122	0.007	0.012	0.000000	0.000000	2145.09	168.86
2	FID		ACIS-S-5	7.23	2761	-0.287	0.021	0.007	0.012	0.000000	0.000000	-1820.97	162.98
3	GUIDE	used	189539224	7.62	5520	-0.392	-0.391	0.109	0.164	190.277008	15.376622	1809.01	-530.10
4	GUIDE	used	189541584	9.78	5513	0.037	0.070	0.168	0.289	190.083512	15.474400	2057.55	-1252.22
5	GUIDE	used	189542152	9.06	5521	-0.086	0.066	0.167	0.262	190.948751	15.714368	-722.49	165.43
6	GUIDE	used	189543464	9.96	5515	0.636	0.067	0.178	0.288	190.766002	16.234150	-1538.27	-1635.02
7	GUIDE	used	189545472	9.47	5516	-0.215	0.205	0.160	0.258	191.491172	15.770525	-2241.64	1295.80

2.4 Star Slots

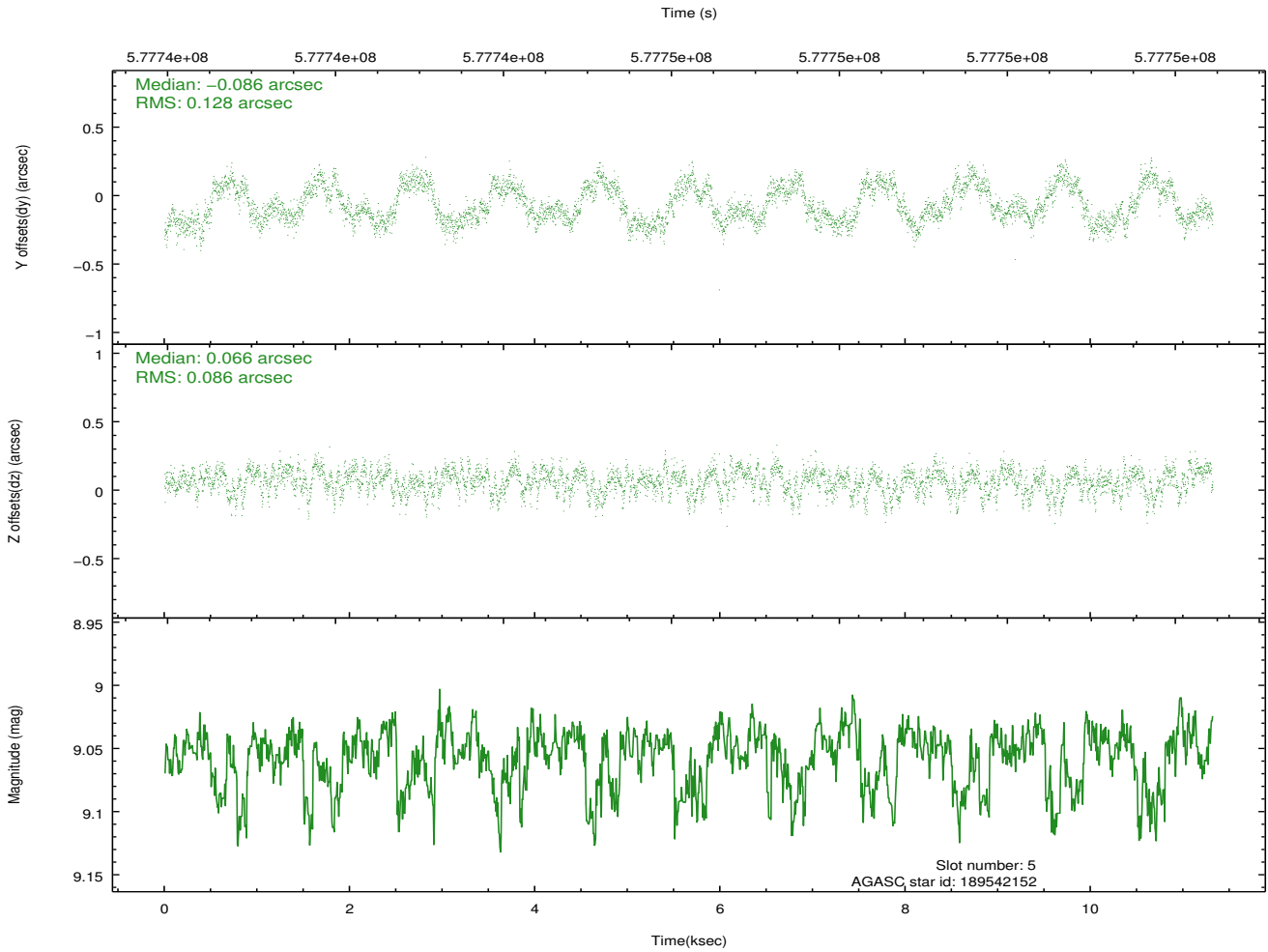
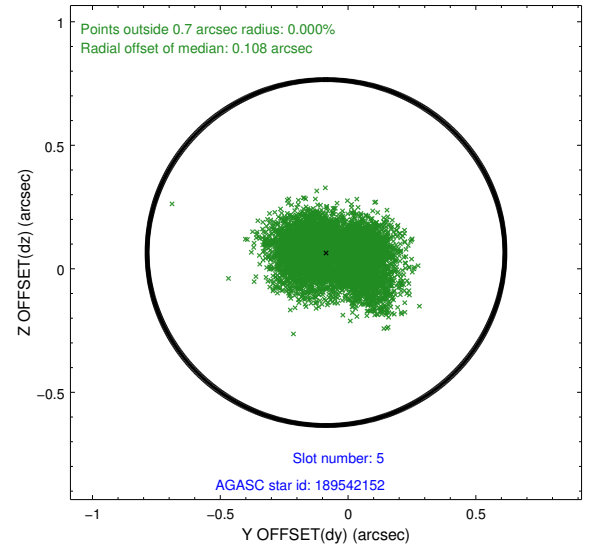
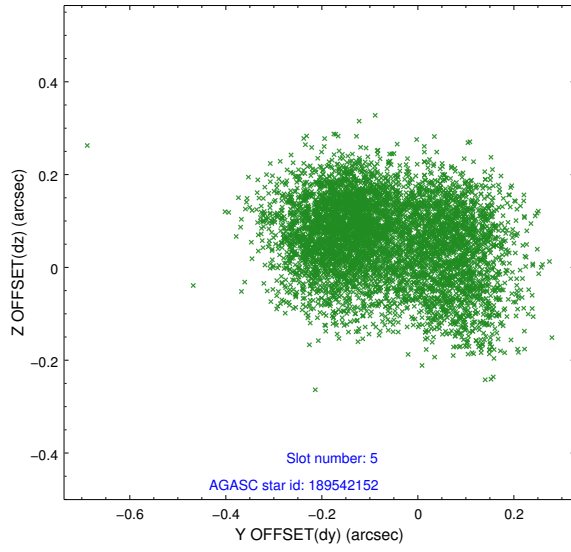
2.4.1 Slot 3



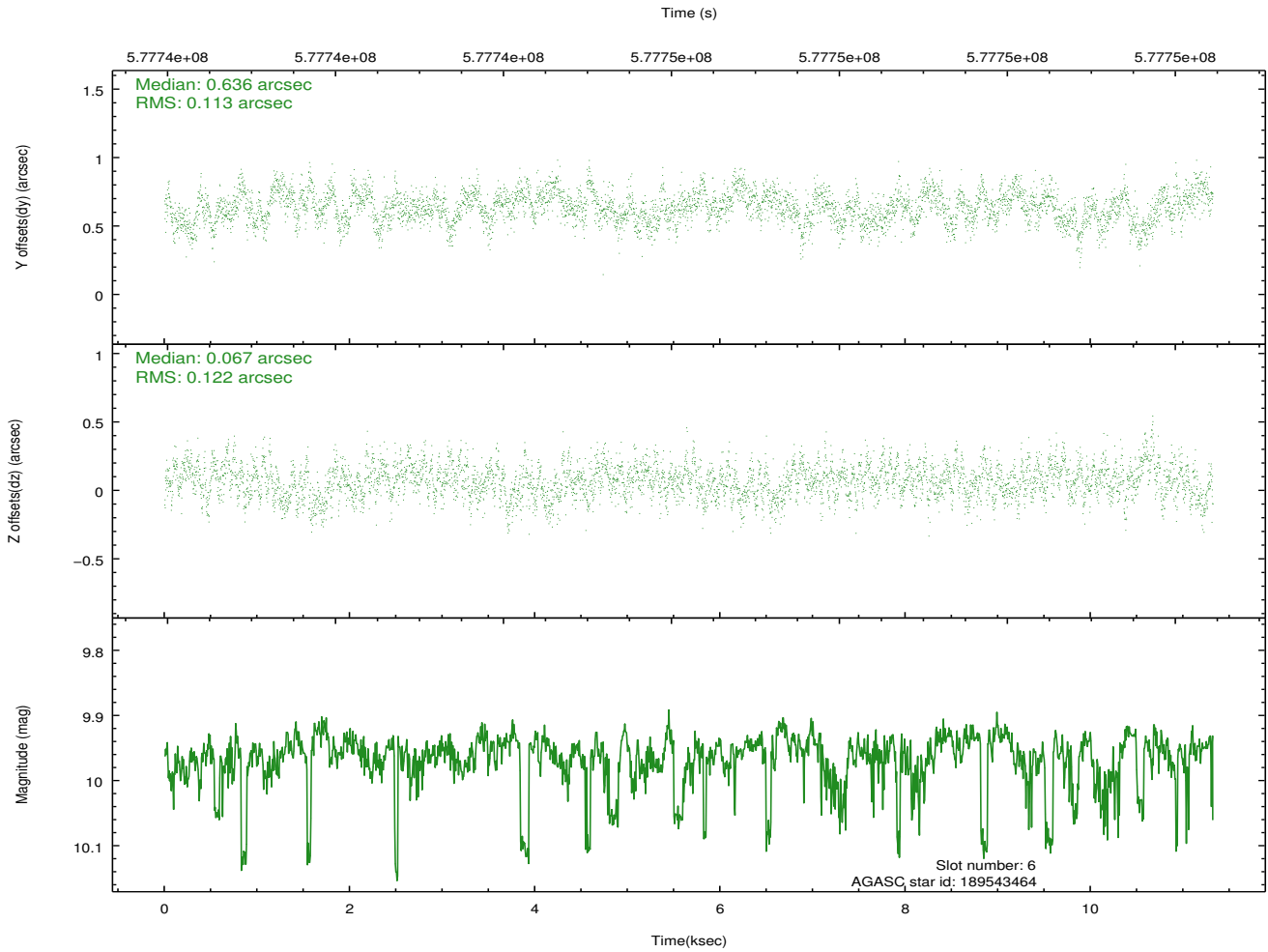
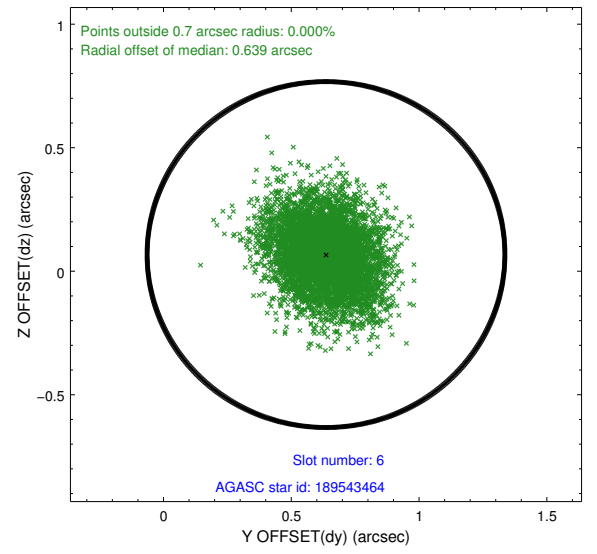
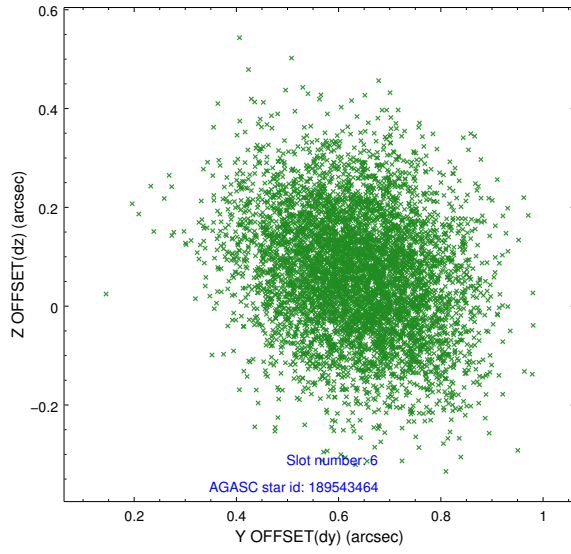
2.4.2 Slot 4



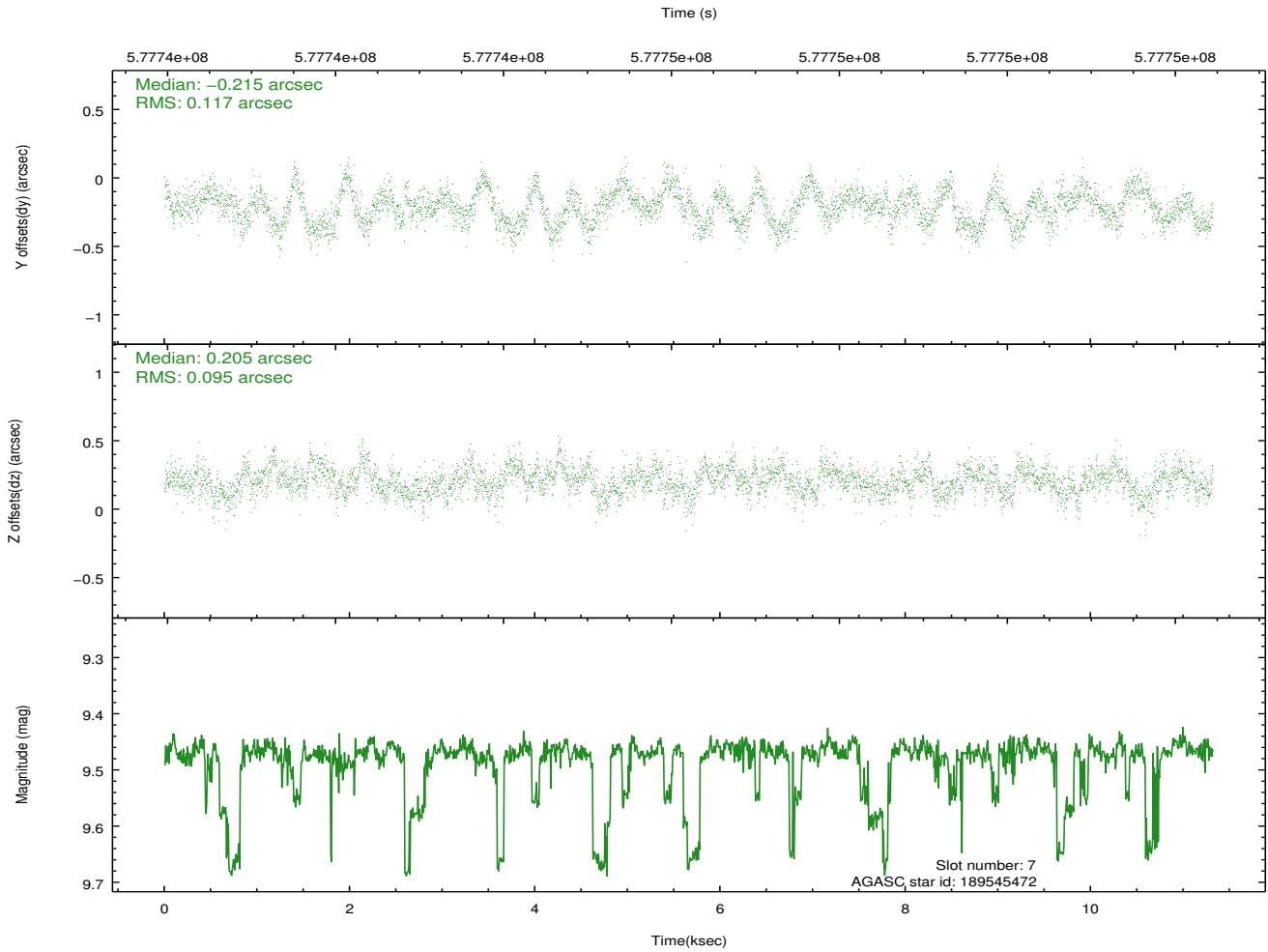
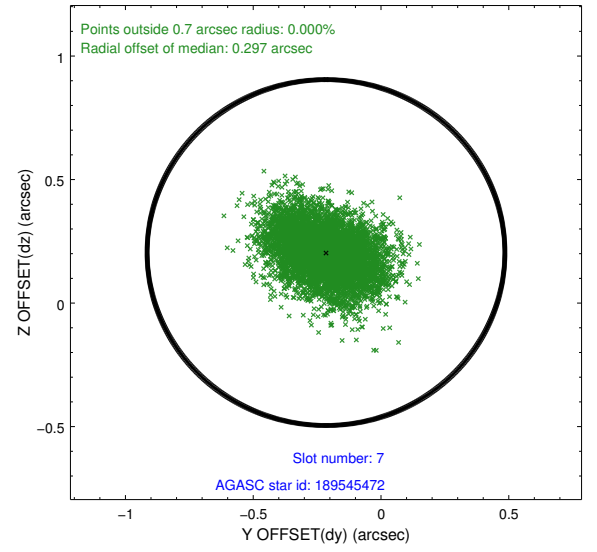
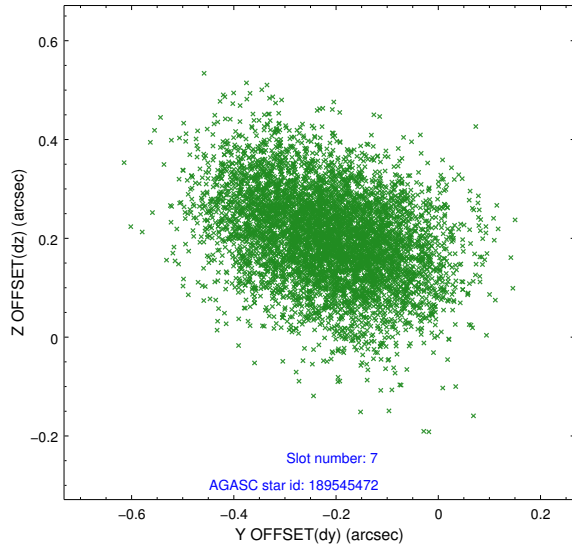
2.4.3 Slot 5



2.4.4 Slot 6

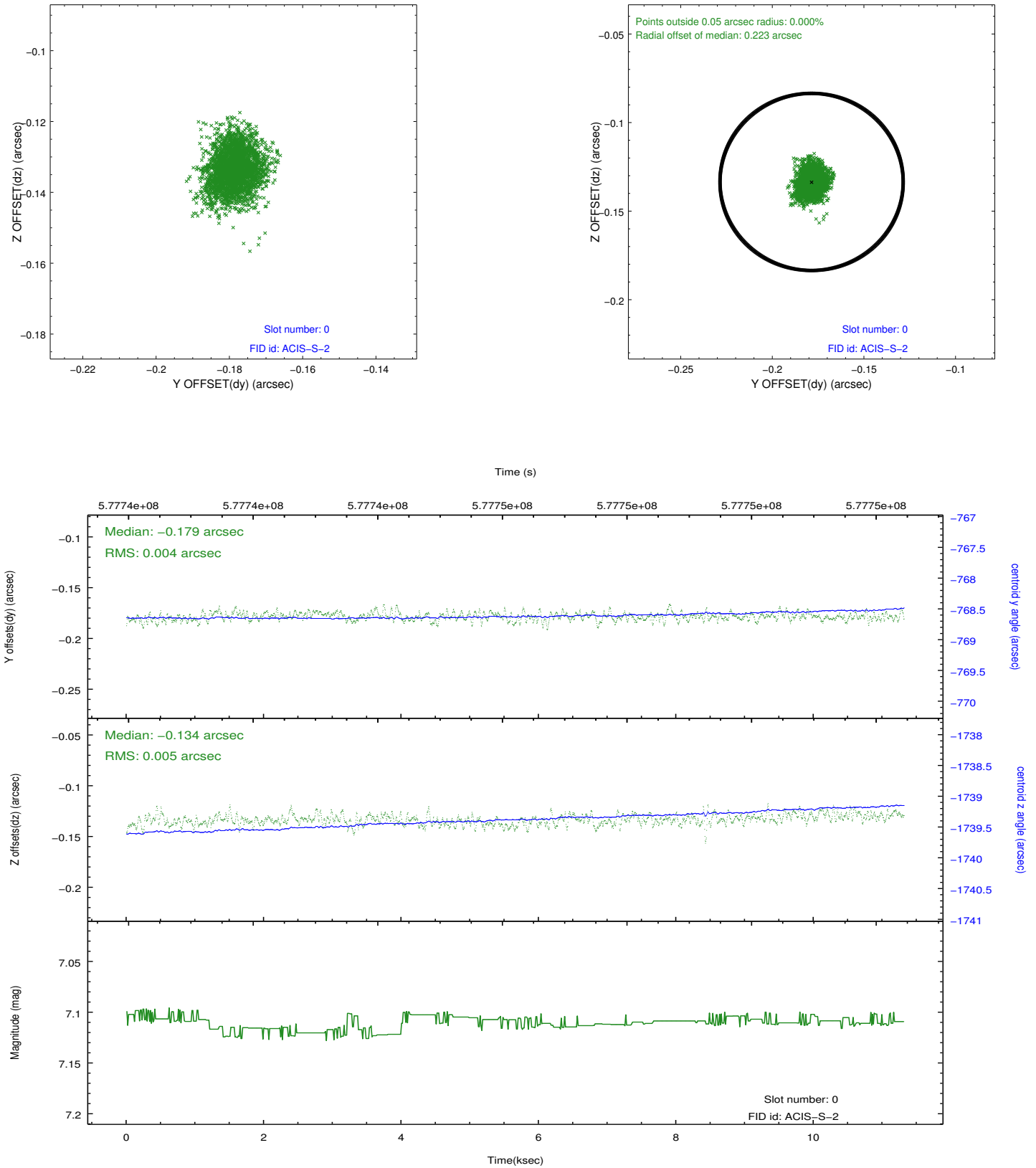


2.4.5 Slot 7

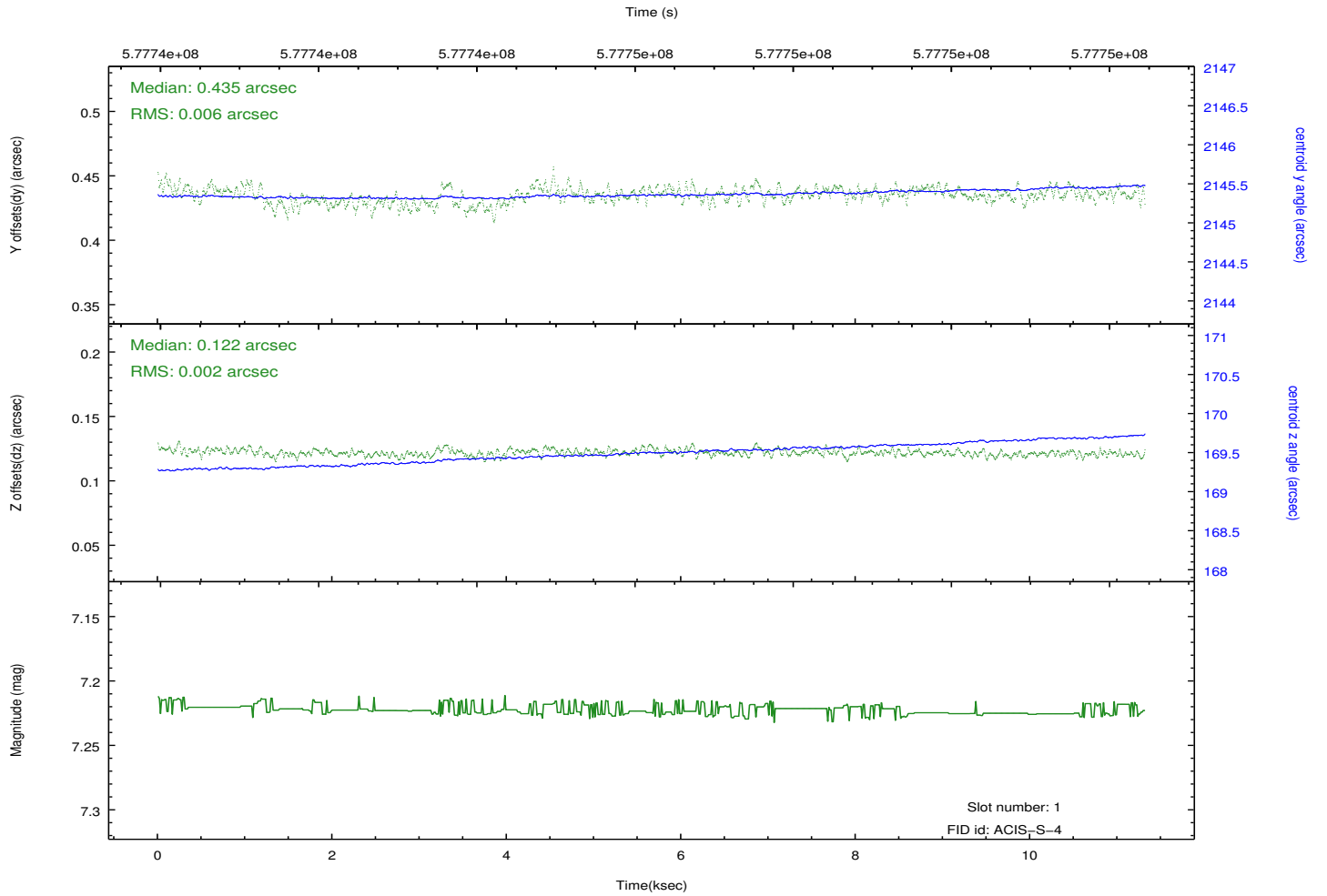
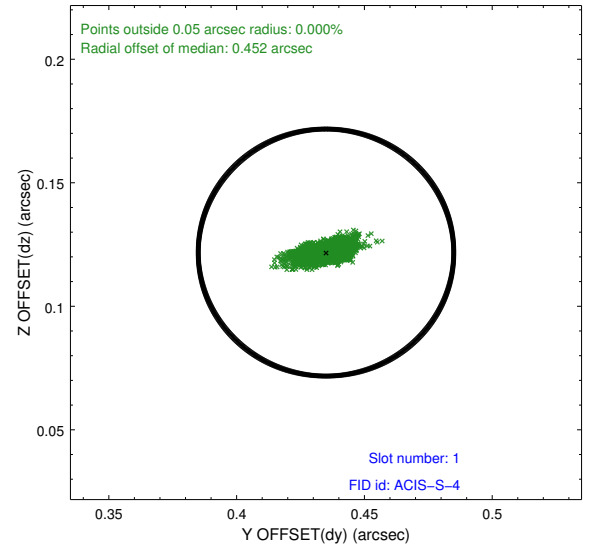
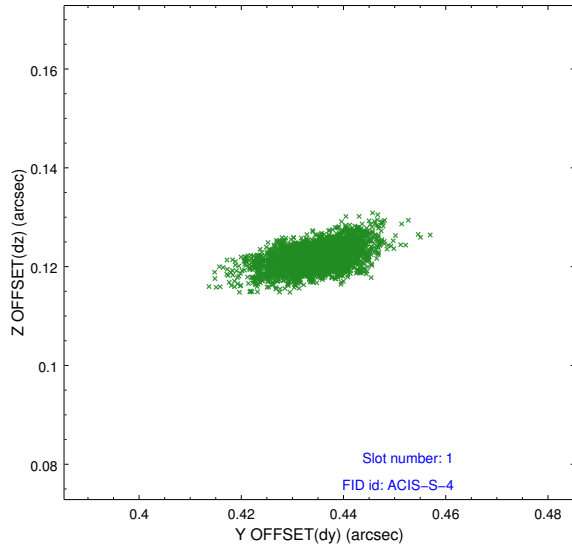


2.5 FID Slots

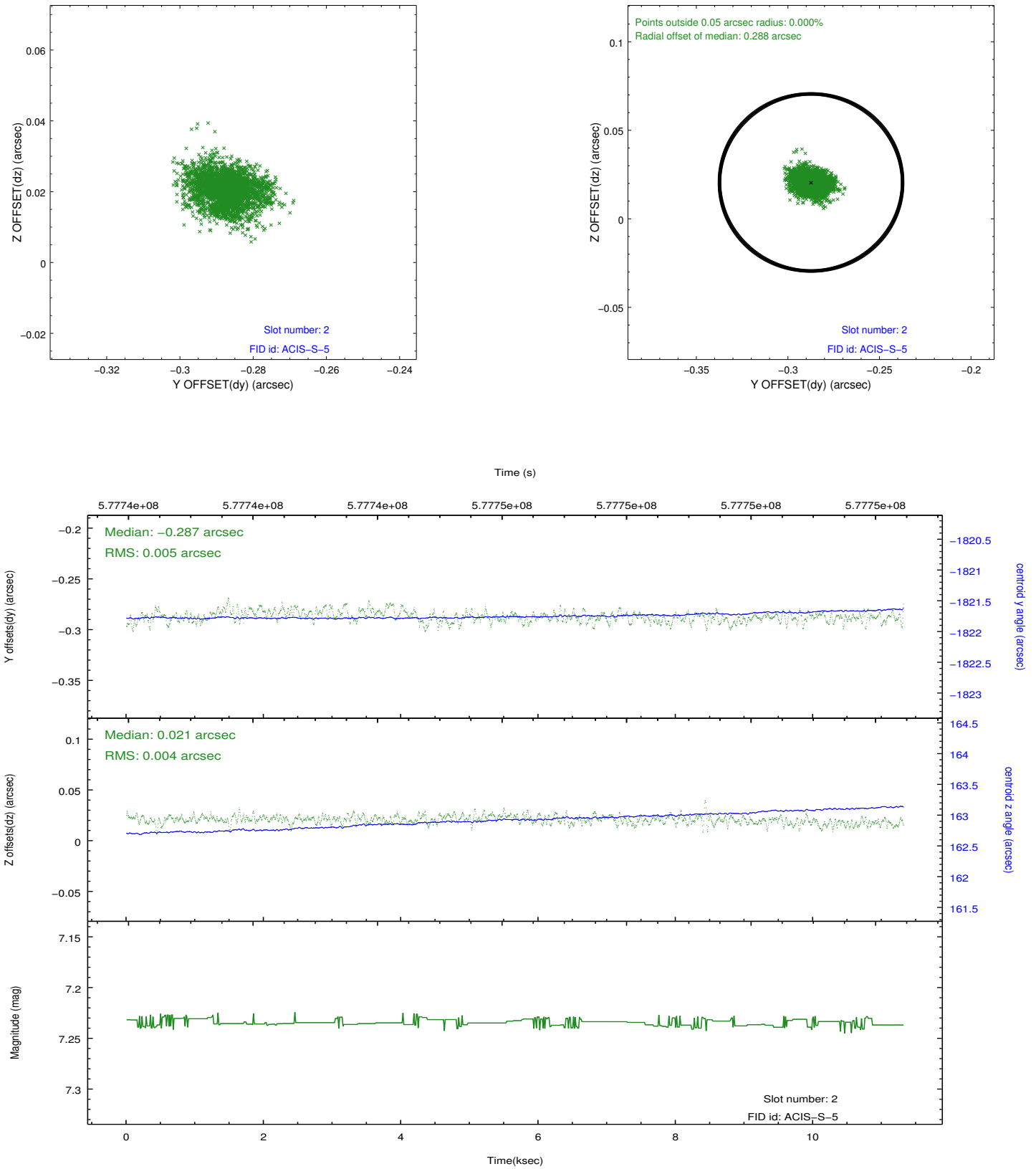
2.5.1 Slot 0



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)	2016.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.537029378176

A.2 Comments