

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18040 - L2 Version 1
Chandra X-Ray Center

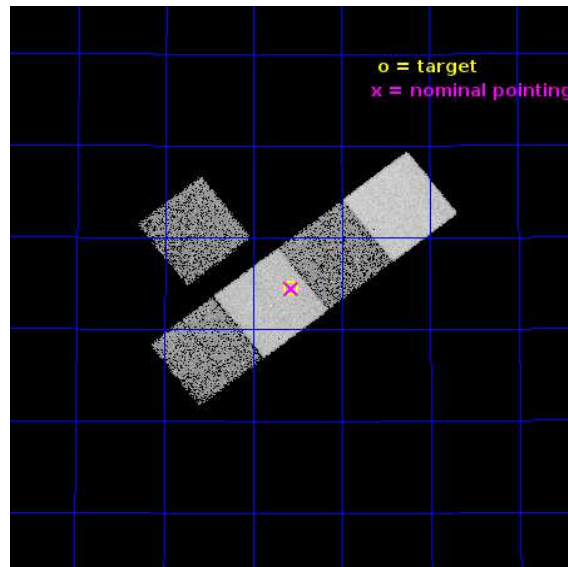
L2 Processing Date : Dec 8 2015

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1 Front

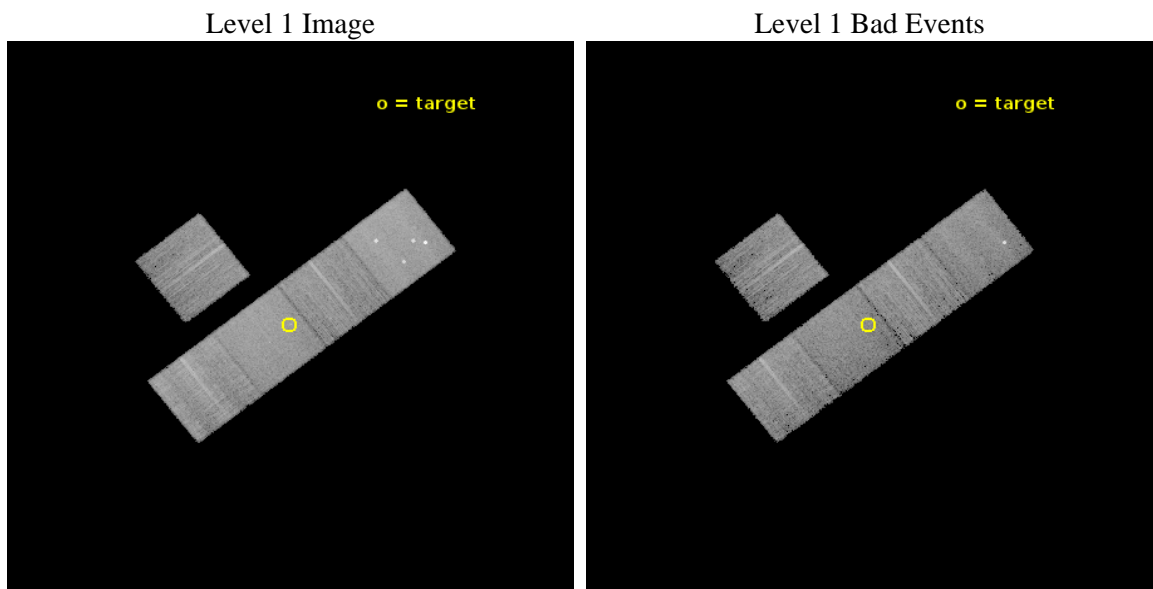
seq_num	601226	Sequence number
obs_id	18040	Observation id
title	The Most Luminous Field Early-type Galaxies	Proposal title
observer	Professor Jimmy Irwin	Principal investigator
object	NGC 2208	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	95.644583	Observer's specified target RA [deg]
dec_targ	51.909444	Observer's specified target Dec [deg]
ra_nom	95.642339285521	Nominal RA [deg]
dec_nom	51.907478741053	Nominal Dec [deg]
roll_nom	142.06846879522	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12055.90009284	Sum of GTIs [s]
livetime	11898.380882703	Livetime [s]
ontime3	12055.90009284	Sum of GTIs [s]
ontime5	12055.90009284	Sum of GTIs [s]
ontime6	12055.90009284	Sum of GTIs [s]
ontime7	12055.90009284	Sum of GTIs [s]
ontime8	12055.90009284	Sum of GTIs [s]
l2events	103201	Number of level 2 events



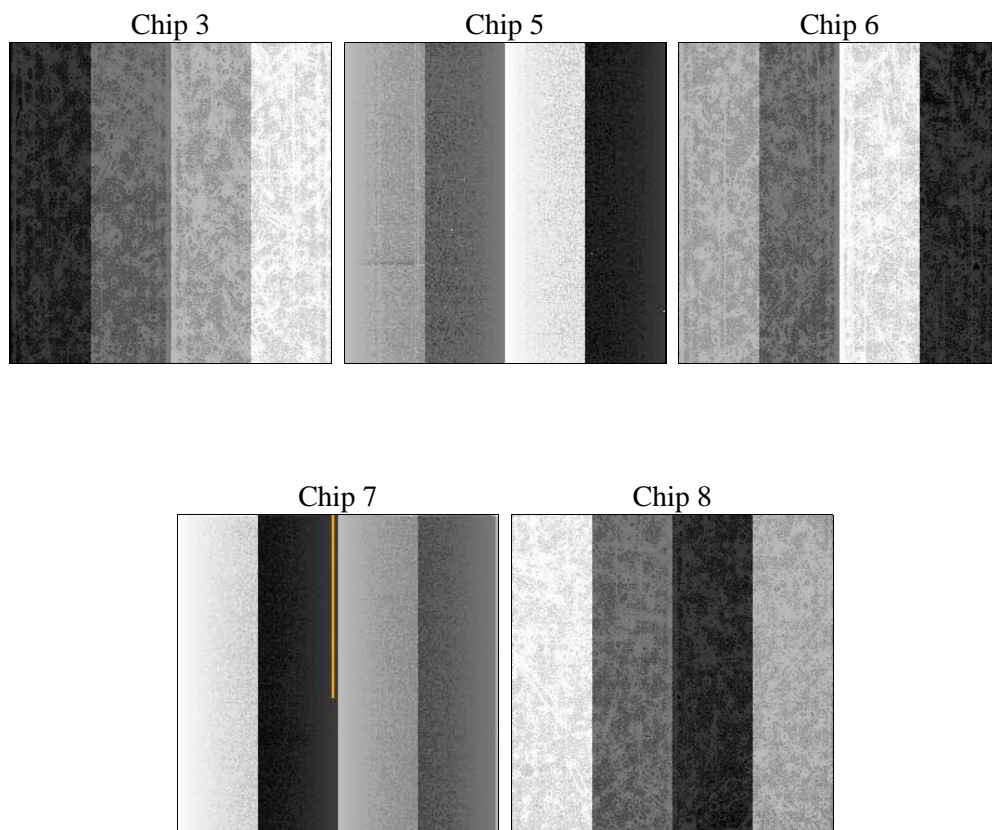
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	12055.90009284	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime3	12055.90009284	Sum of GTIs [s]
date	2015-12-08T14:48:39	Date and time of file creation	ontime5	12055.90009284	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	12055.90009284	Sum of GTIs [s]
			ontime7	12055.90009284	Sum of GTIs [s]
			ontime8	12055.90009284	Sum of GTIs [s]
			l1events	421920	Number of level 1 events

2.1.4 Events

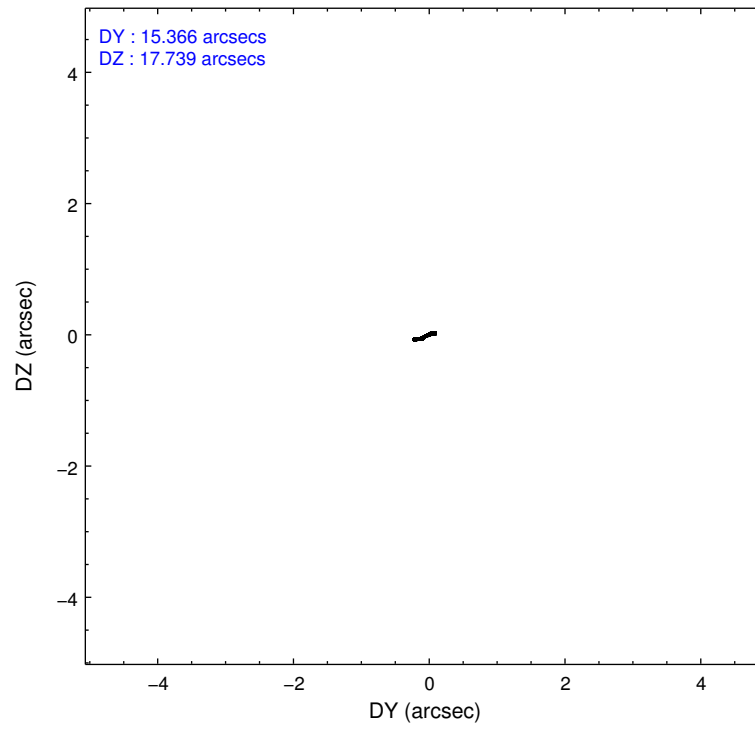
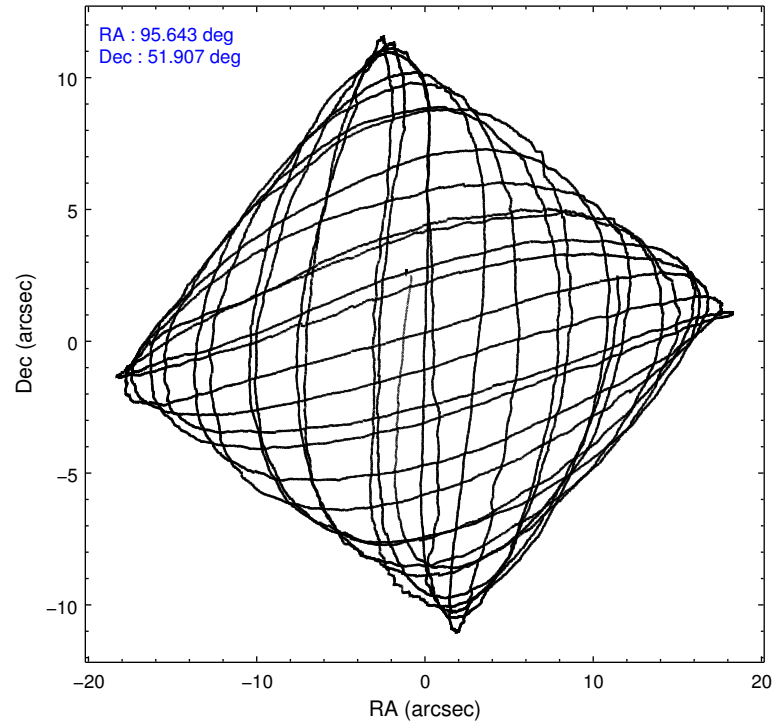
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	63848	113760	71451	87658	85203
rejected events	57011	58510	63727	51212	63977
rejected %	89%	51%	89%	58%	75%

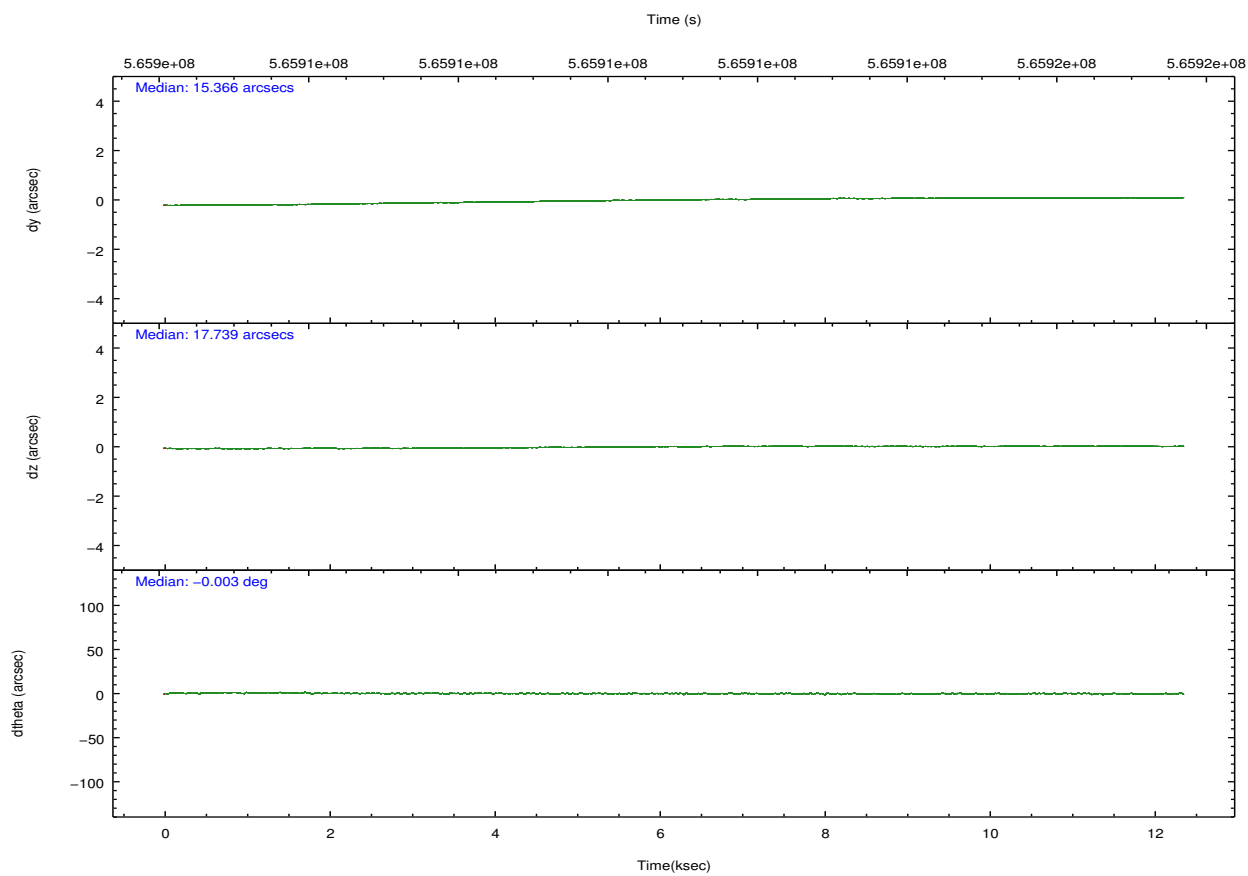
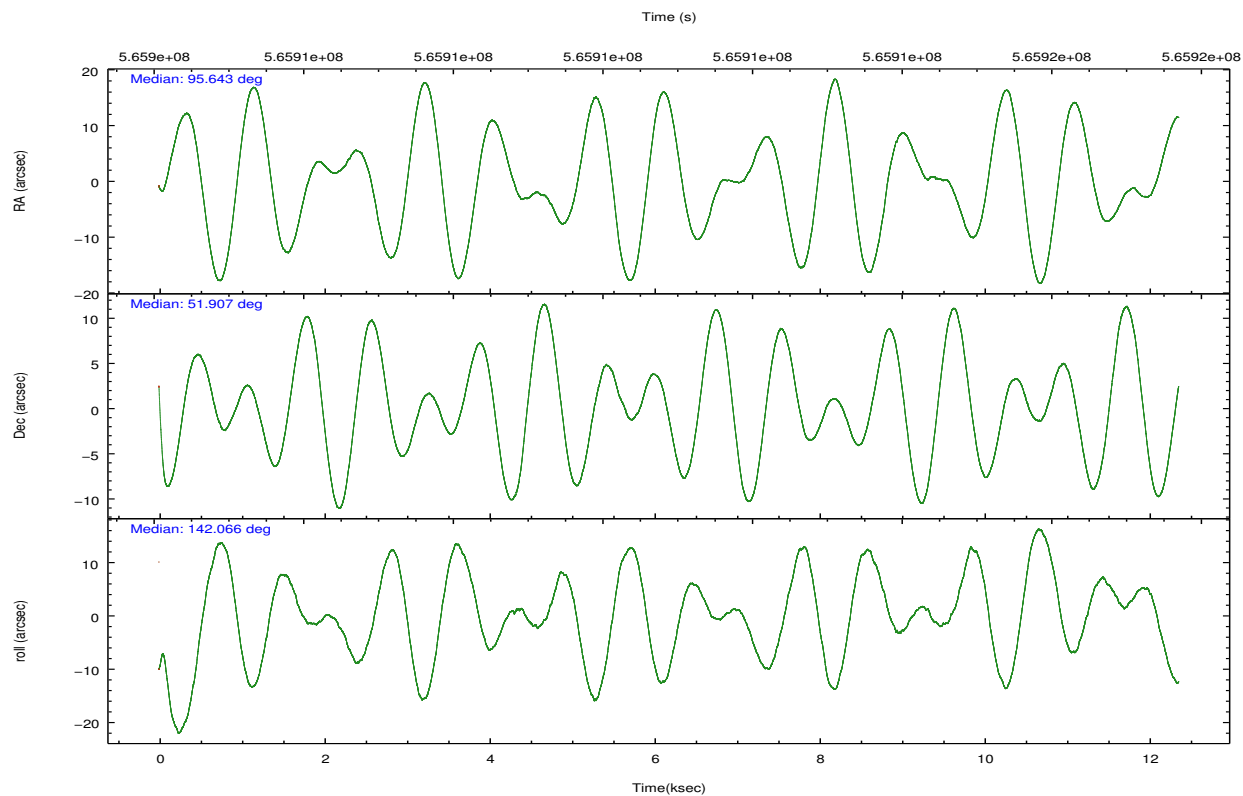
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2391	7639	2384	2830	5899
	3%	6%	3%	3%	6%
grade 1 events	29	322	29	94	65
	0%	0%	0%	0%	0%
grade 2 events	1488	16372	1906	7762	5277
	2%	14%	2%	8%	6%
grade 3 events	715	1521	722	2689	2184
	1%	1%	1%	3%	2%
grade 4 events	714	1343	714	2699	1957
	1%	1%	0%	3%	2%
grade 5 events	3188	7467	3239	8354	4798
	4%	6%	4%	9%	5%
grade 6 events	1532	28410	2002	20490	5911
	2%	24%	2%	23%	6%
grade 7 events	53791	50686	60455	42740	59112
	84%	44%	84%	48%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	95.686431	95.64233928552086	CCD I2 on	N	N
[deg] Pointing Dec	51.904111	51.90747874105309	CCD I3 on	Y	Y
[deg] Pointing Roll	141.877132	142.0684687952187	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	O1	Y
[s] Observation start time (MET)	565905049.184000	565904022.63384	CCD S5 on	N	N
Observation start date	2015-12-07T19:49:41	2015-12-07T19:33:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	565917049.184000	565917756.09712	On-chip summing requested	N	N
Observation end date	2015-12-07T23:09:41	2015-12-07T23:22:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



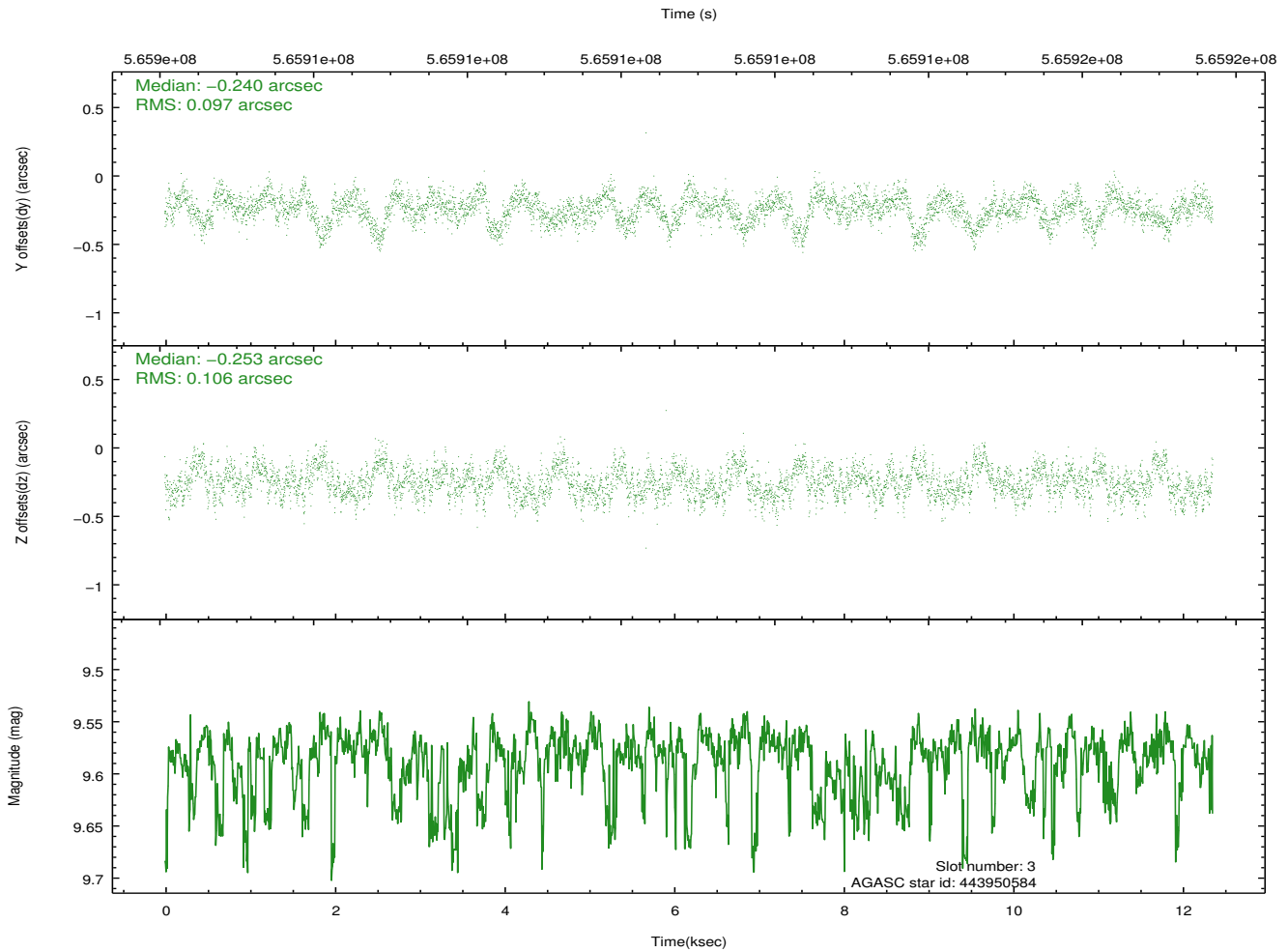
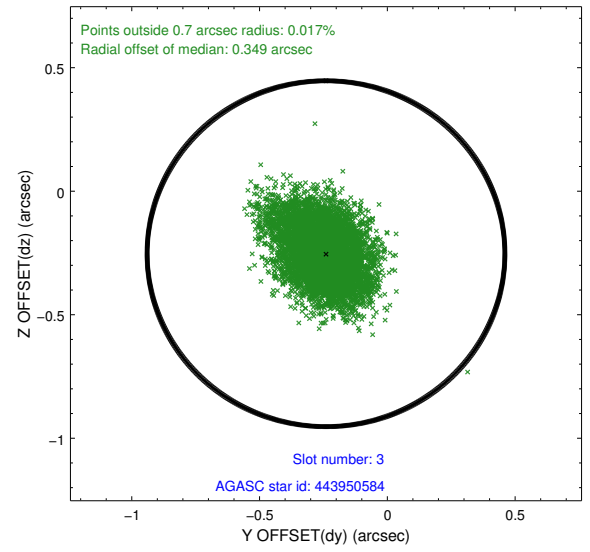
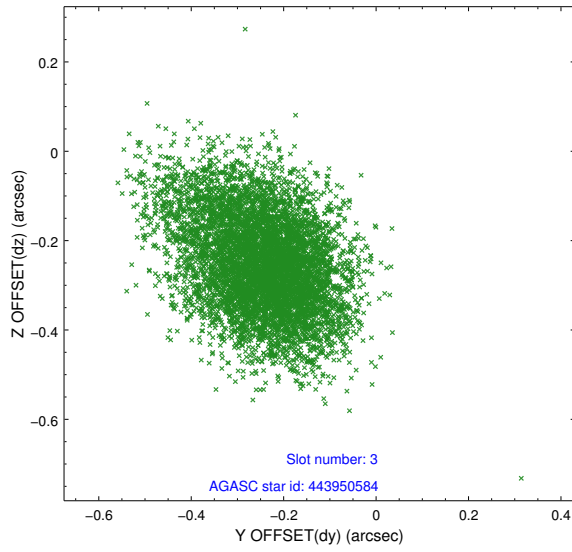


Slot Statistics

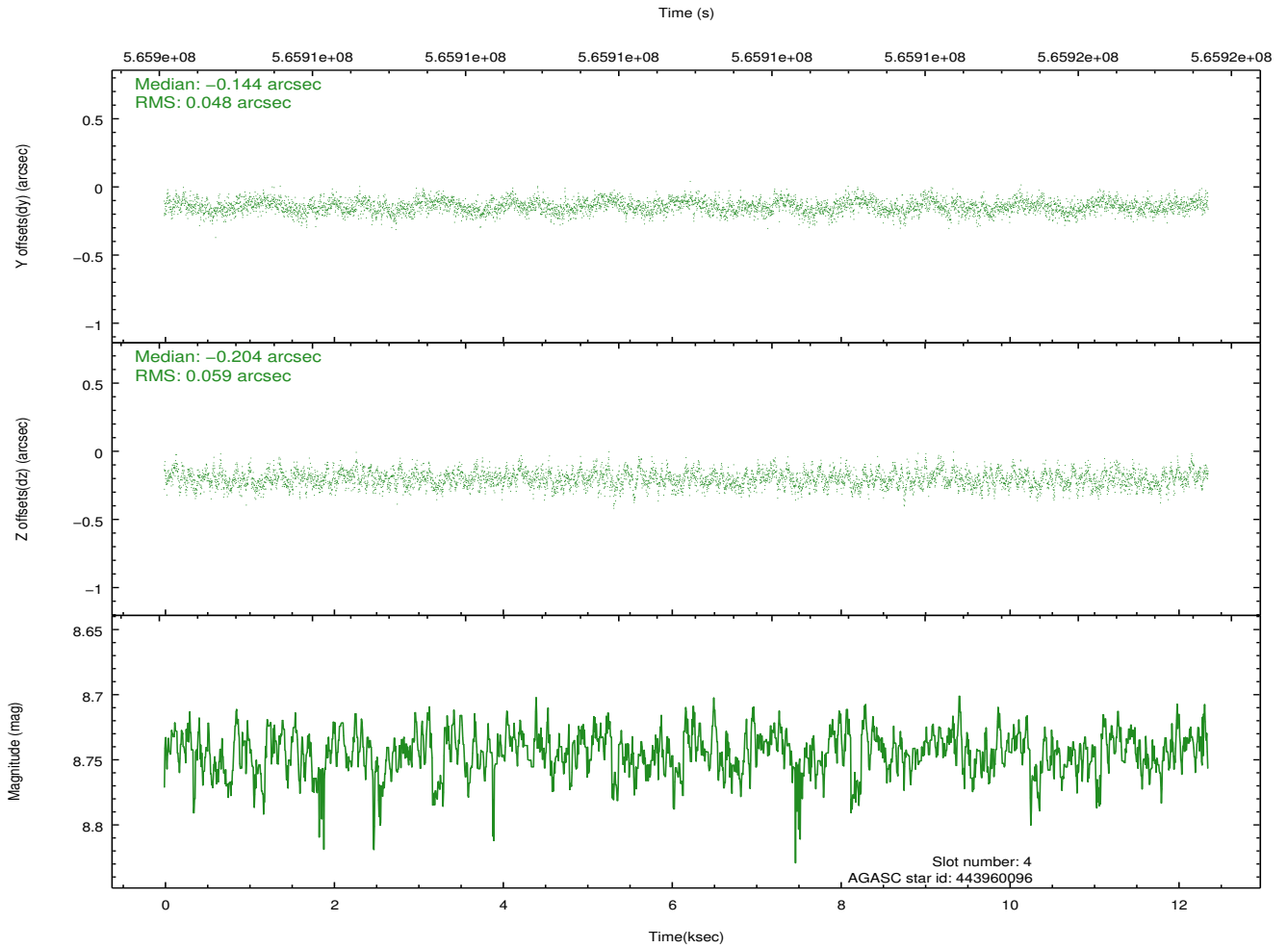
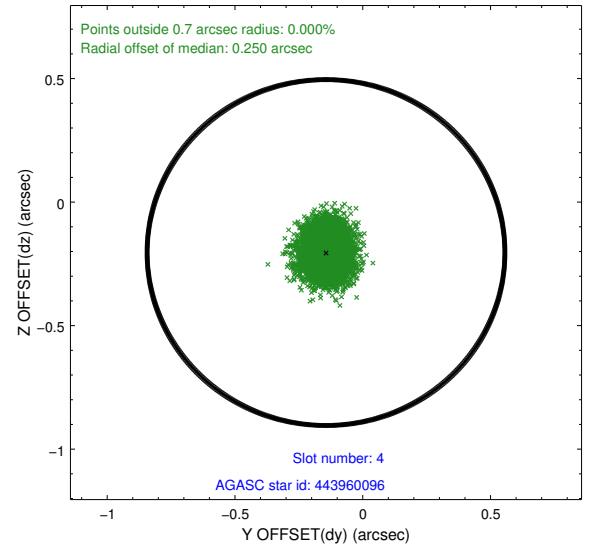
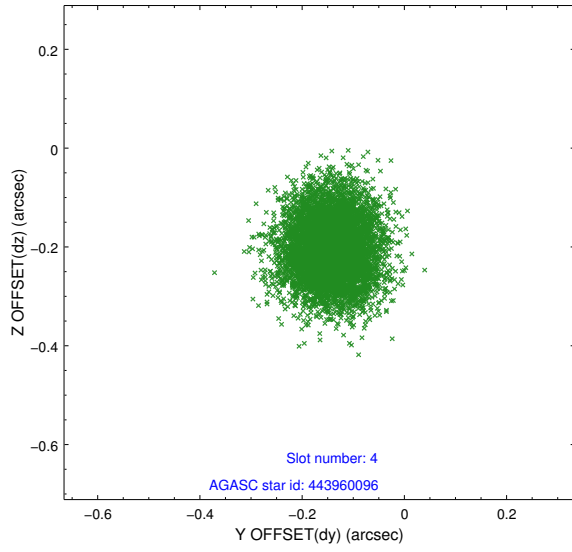
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	3014	-0.178	-0.145	0.007	0.012	0.000000	0.000000	-768.51	-1739.26
1	FID		ACIS-S-4	7.24	3014	0.448	0.124	0.007	0.012	0.000000	0.000000	2145.23	169.05
2	FID		ACIS-S-5	7.26	3015	-0.302	0.029	0.007	0.012	0.000000	0.000000	-1820.94	163.12
3	GUIDE	used	443950584	9.58	6020	-0.240	-0.253	0.152	0.249	94.784198	51.708529	1156.25	1786.70
4	GUIDE	used	443960096	8.74	6025	-0.144	-0.204	0.081	0.132	95.295297	51.725287	290.72	1043.19
5	GUIDE	used	444086048	7.02	6030	0.174	0.337	0.105	0.184	96.299989	51.633133	-1677.19	-82.28
6	GUIDE	used	444087128	8.64	6021	0.278	-0.133	0.094	0.154	95.848747	51.554848	-1061.78	764.80
7	GUIDE	used	493369032	6.26	6029	-0.068	0.249	0.057	0.099	95.388853	52.520514	1883.83	-1343.84

2.4 Star Slots

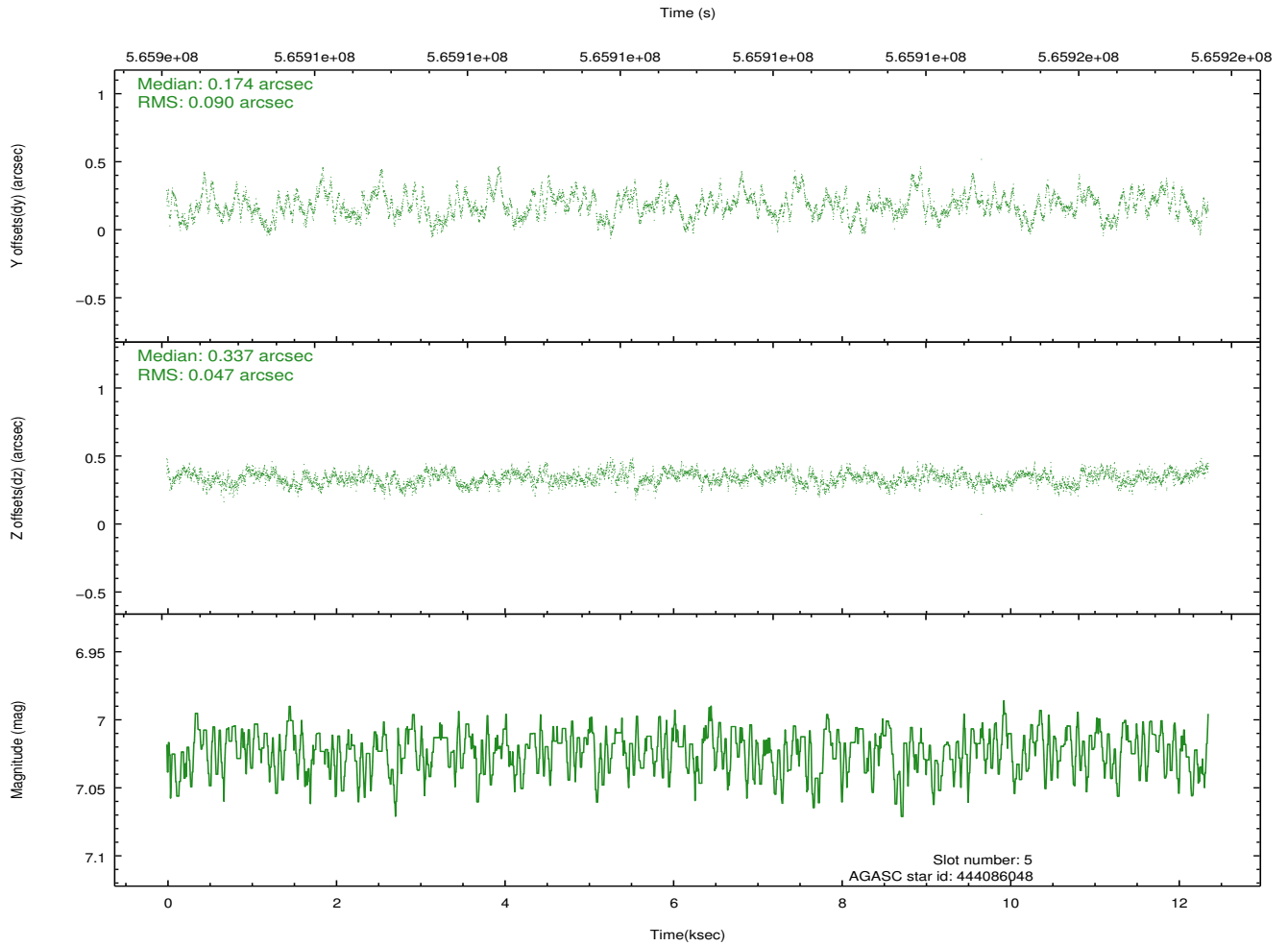
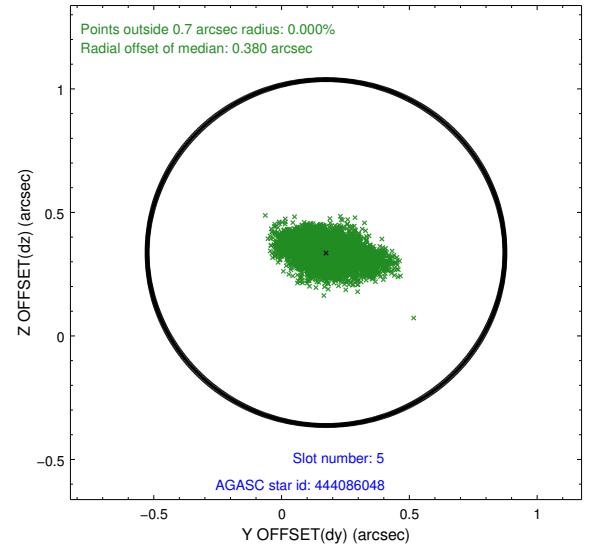
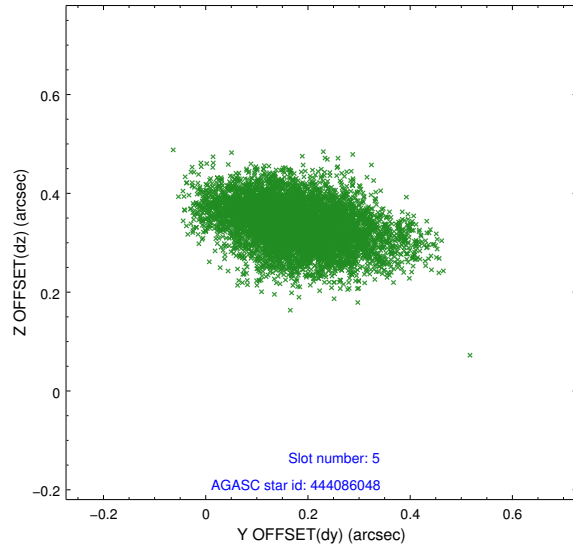
2.4.1 Slot 3



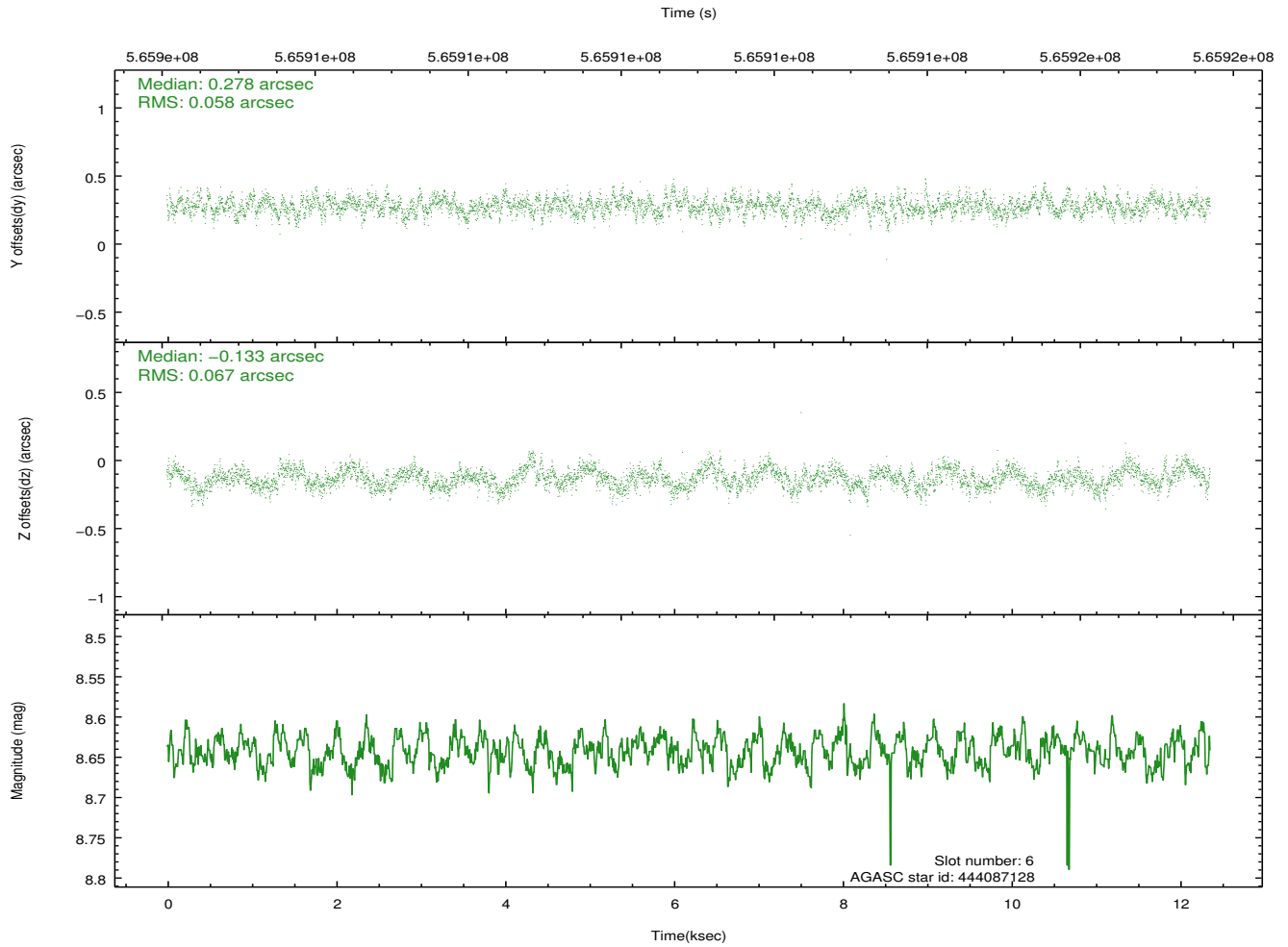
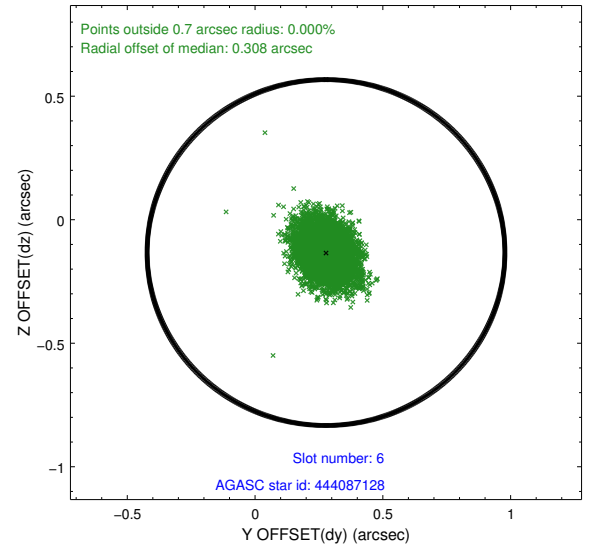
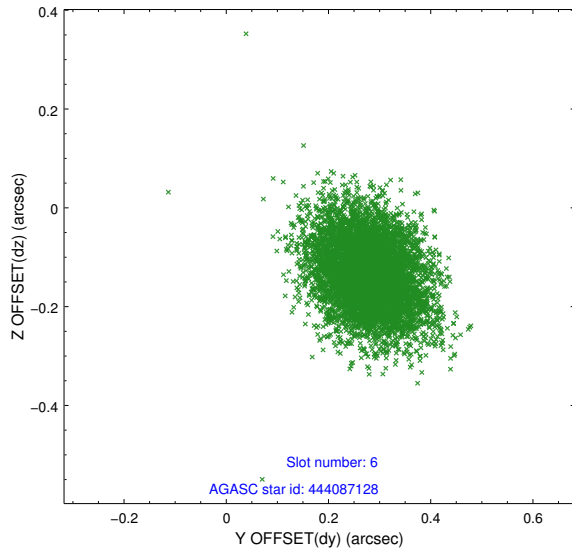
2.4.2 Slot 4



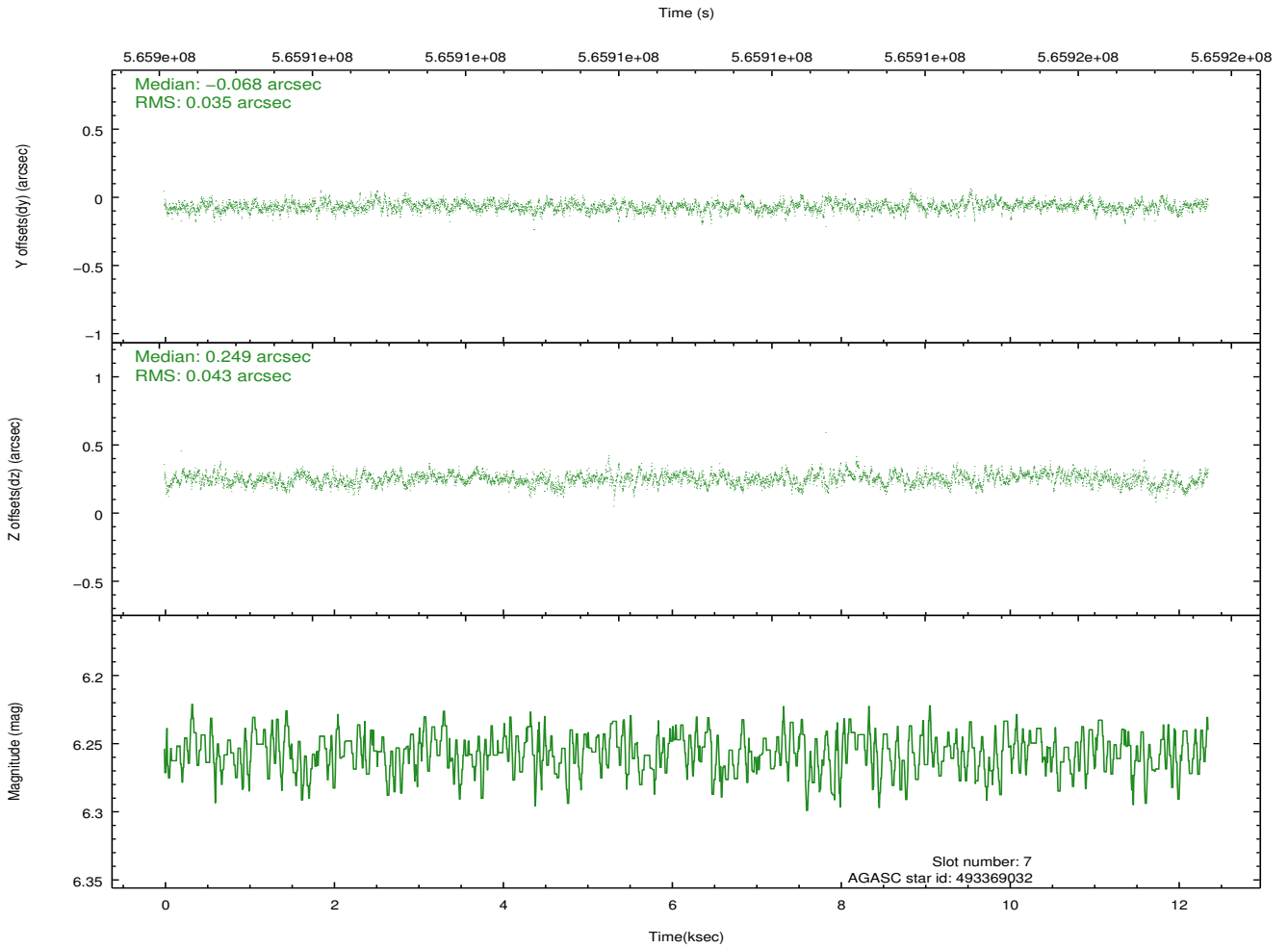
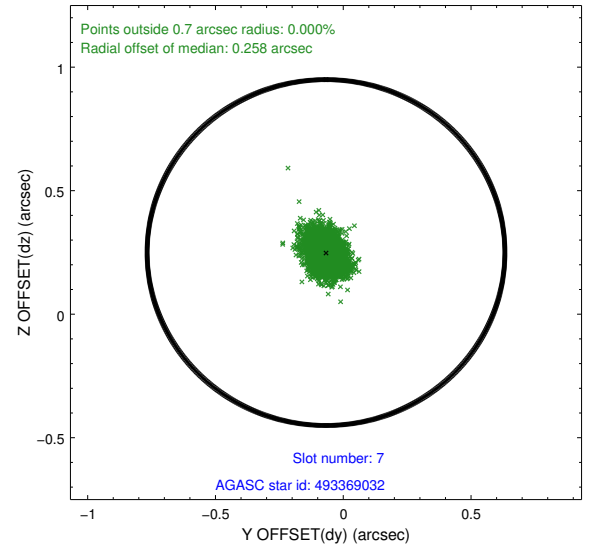
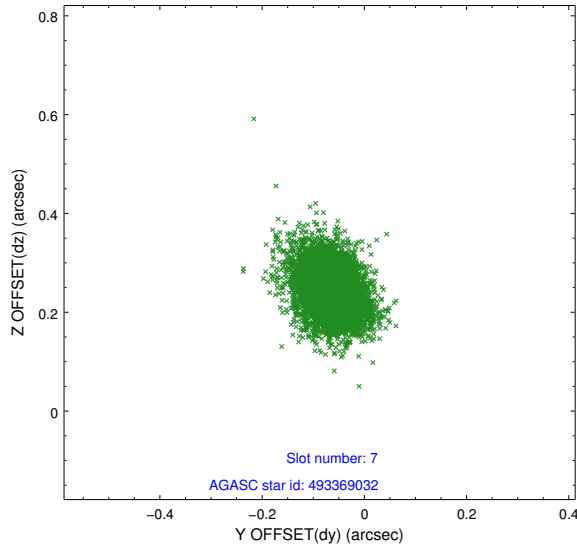
2.4.3 Slot 5



2.4.4 Slot 6

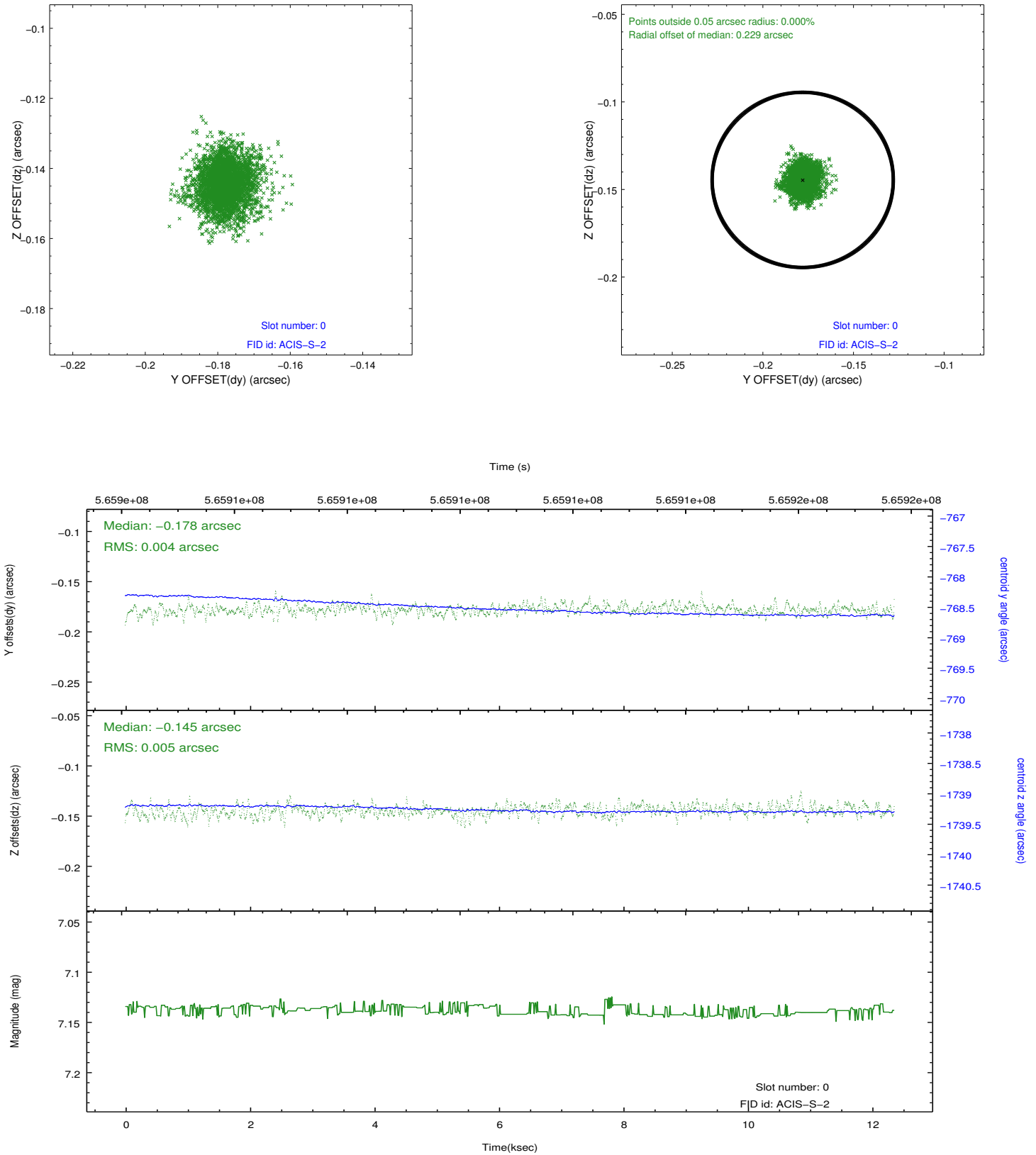


2.4.5 Slot 7

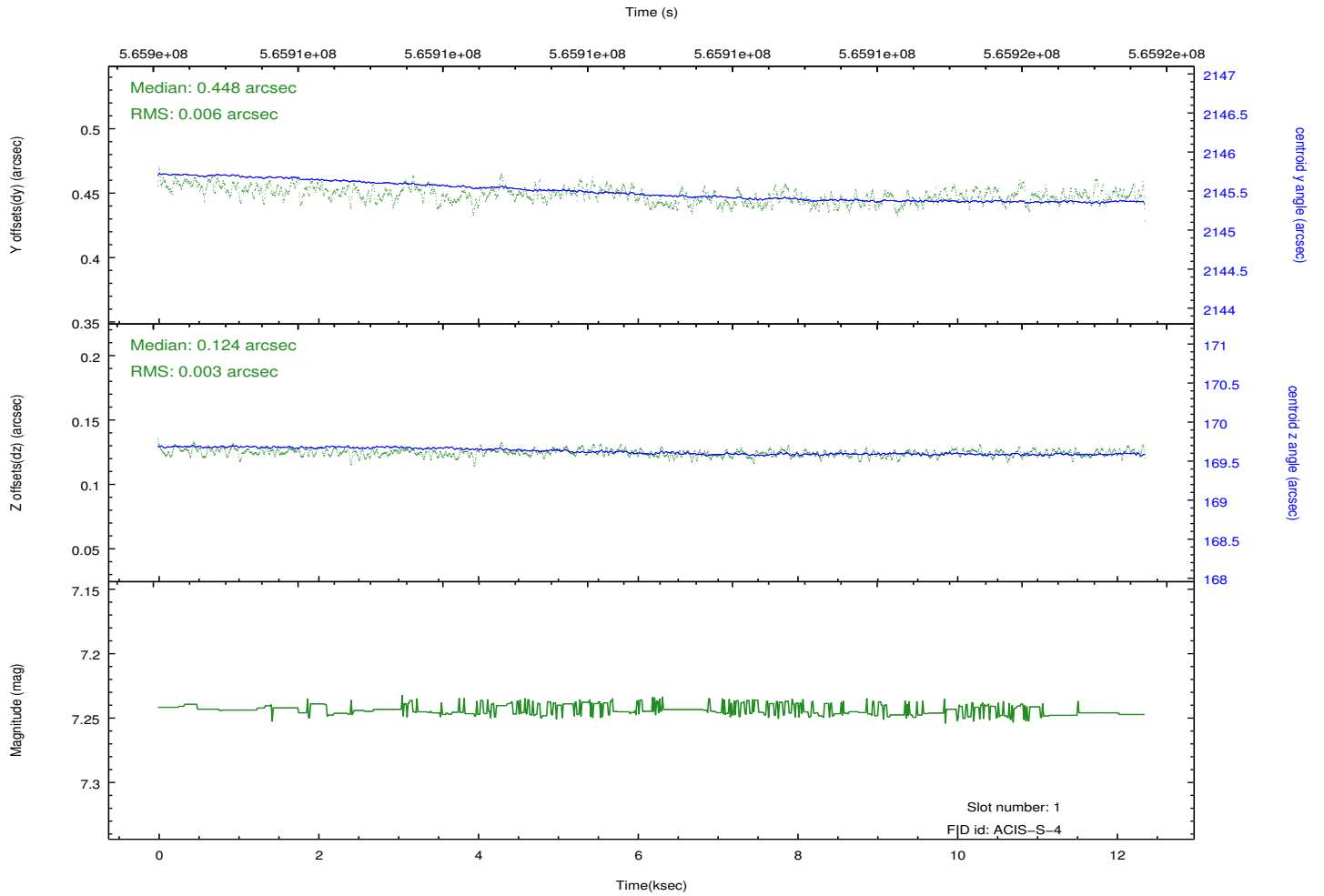
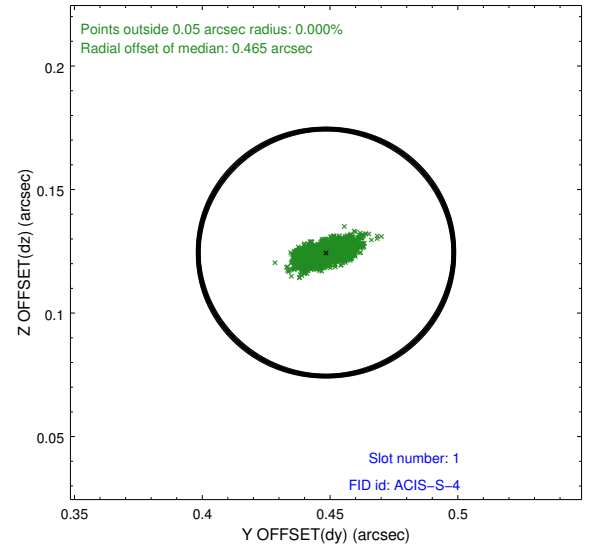
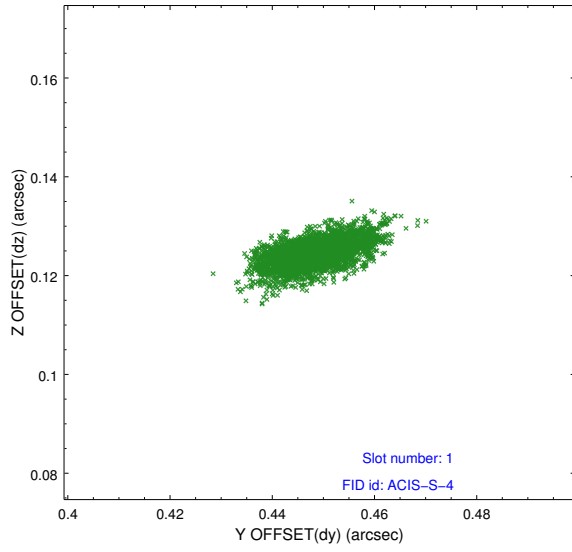


2.5 FID Slots

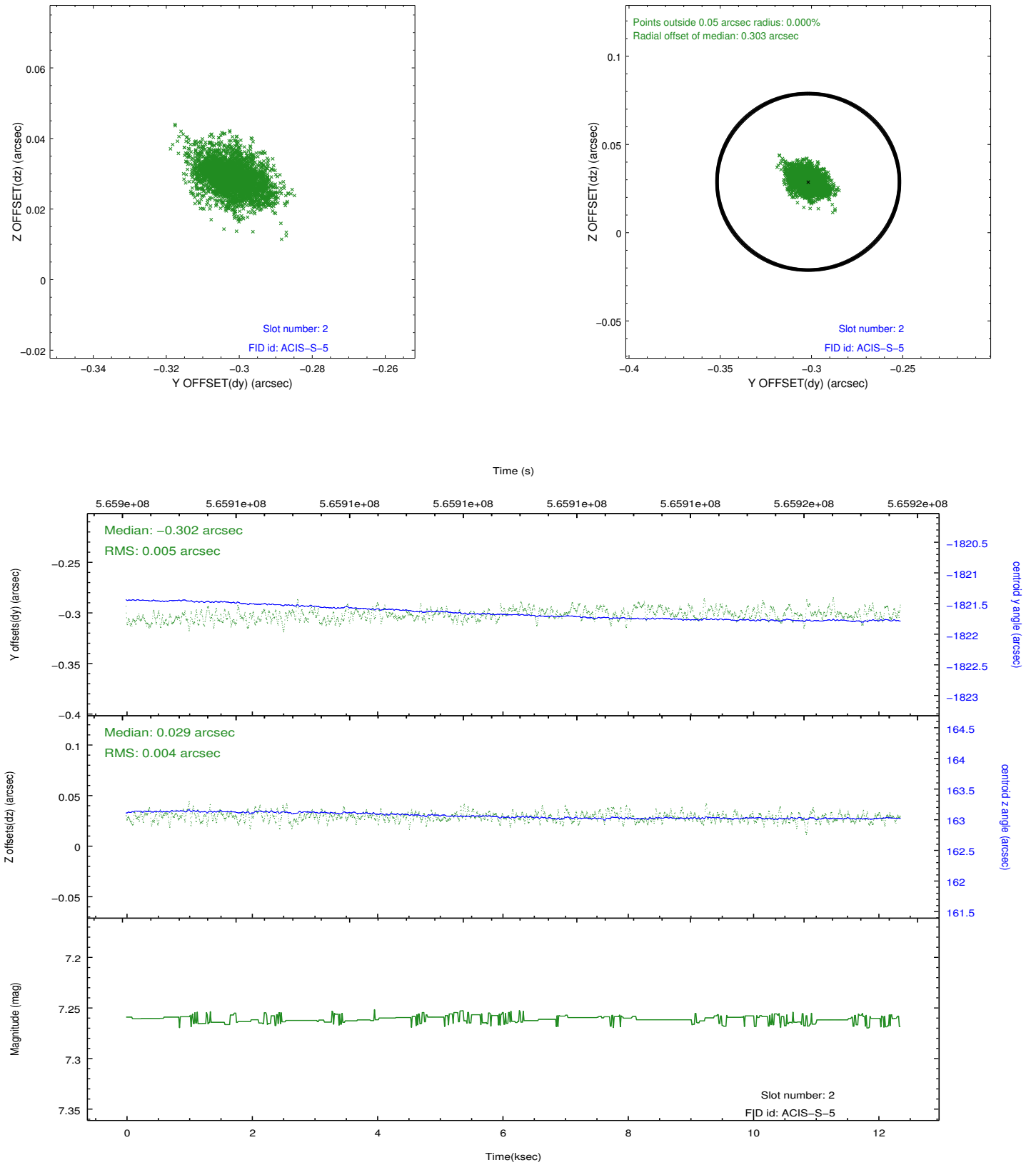
2.5.1 Slot 0



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)	2015.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.05590009284

A.2 Comments