

V&V Reference Report

L2 ASCDS Version : 10

Observation 15099 - L2 Version 2
Chandra X-Ray Center

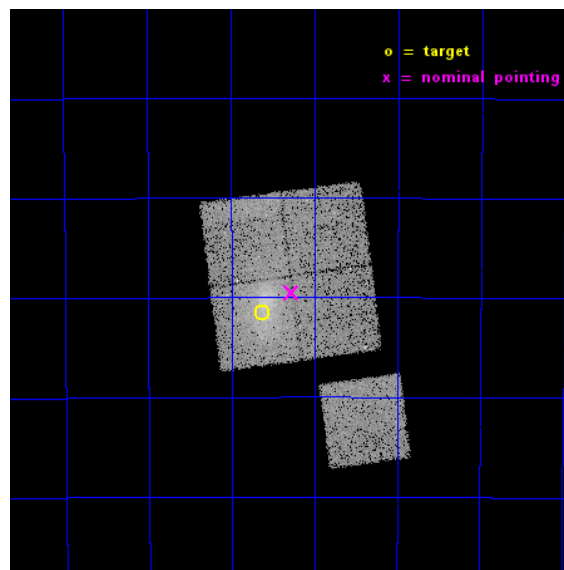
L2 Processing Date : Dec 4 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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

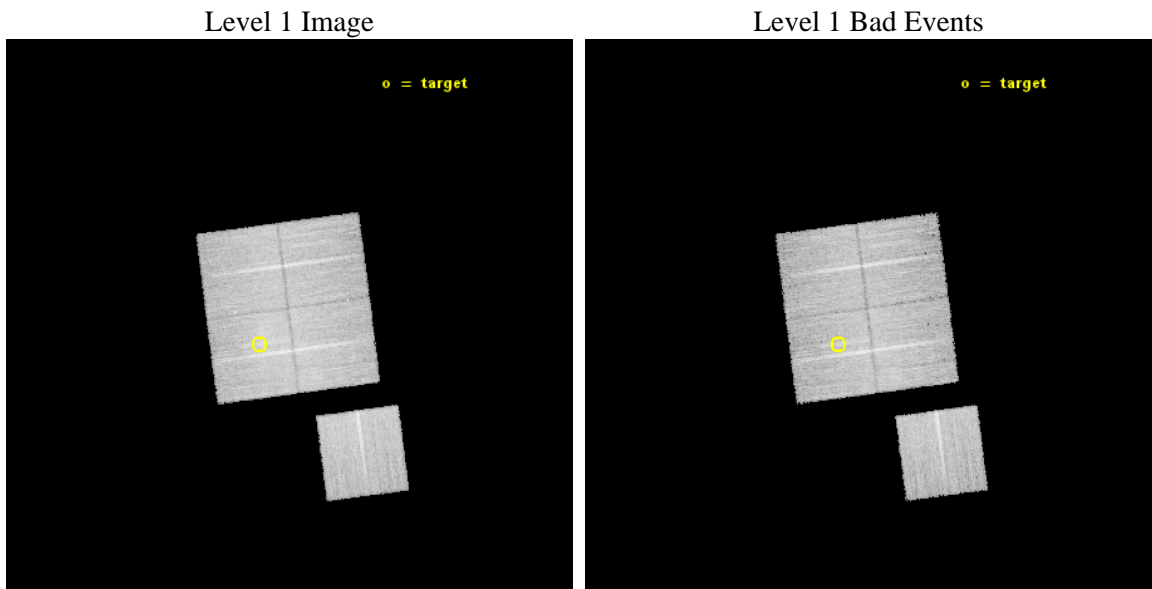
seq_num	801228	Sequence number
obs_id	15099	Observation id
title	A Chandra-Planck Legacy Program for Massive Clusters of Galaxies	P
observer	Dr. Christine Jones	Principal investigator
object	G262.25-35.36	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.15625	Observer's specified target RA [deg]
dec_targ	-54.5255	Observer's specified target Dec [deg]
ra_nom	79.069545143942	Nominal RA [deg]
dec_nom	-54.491769672102	Nominal Dec [deg]
roll_nom	172.51219257148	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21767.709569216	Sum of GTIs [s]
livetime	21483.298418539	Livetime [s]
ontime0	21770.727439463	Sum of GTIs [s]
ontime1	21764.486588538	Sum of GTIs [s]
ontime2	21761.3865785	Sum of GTIs [s]
ontime3	21767.709569216	Sum of GTIs [s]
ontime6	21764.404428899	Sum of GTIs [s]
l2events	63878	Number of level 2 events



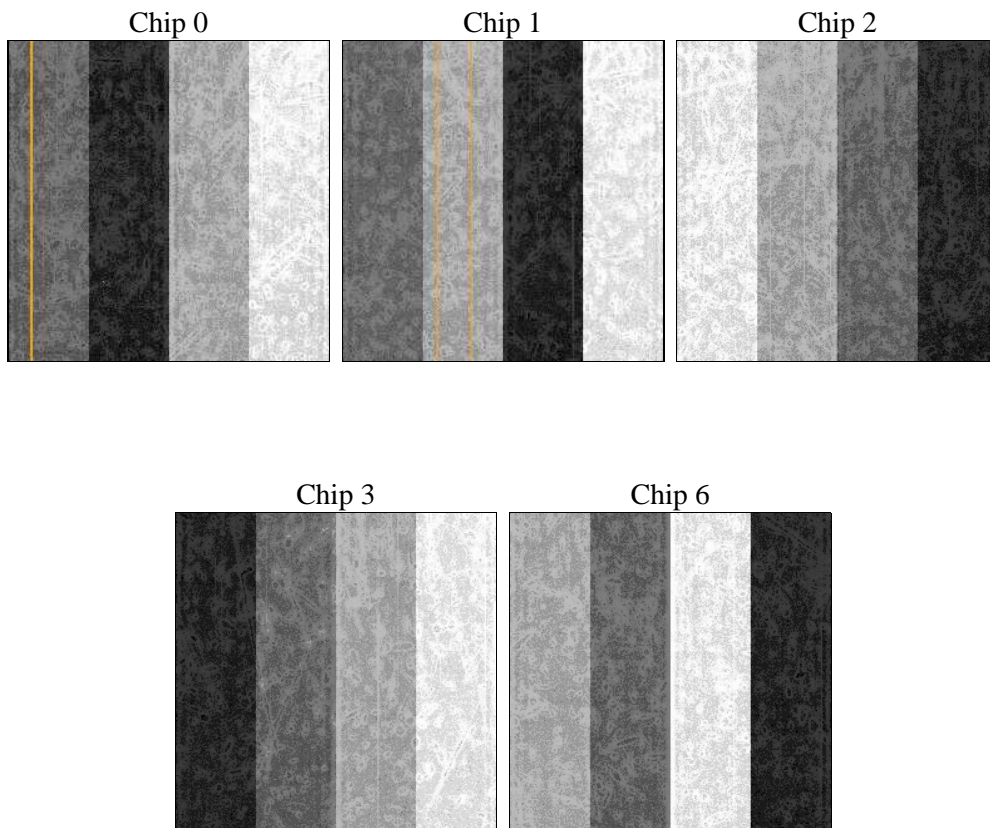
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	21767.709569216	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	21770.727439463	Sum of GTIs [s]
date	2014-12-04T06:42:35	Date and time of file creation	ontime1	21764.486588538	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	21761.3865785	Sum of GTIs [s]
			ontime3	21767.709569216	Sum of GTIs [s]
			ontime6	21764.404428899	Sum of GTIs [s]
			l1events	516736	Number of level 1 events

2.1.4 Events

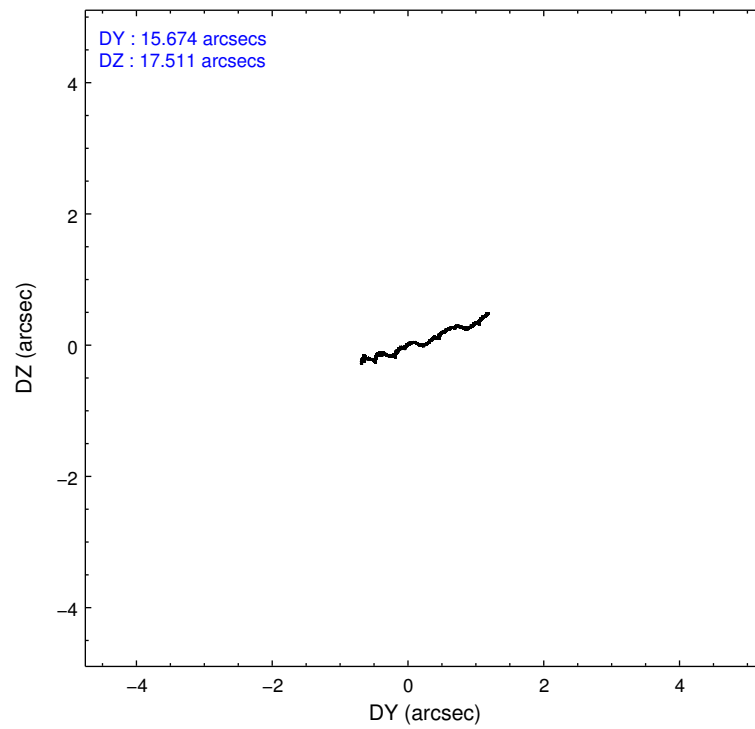
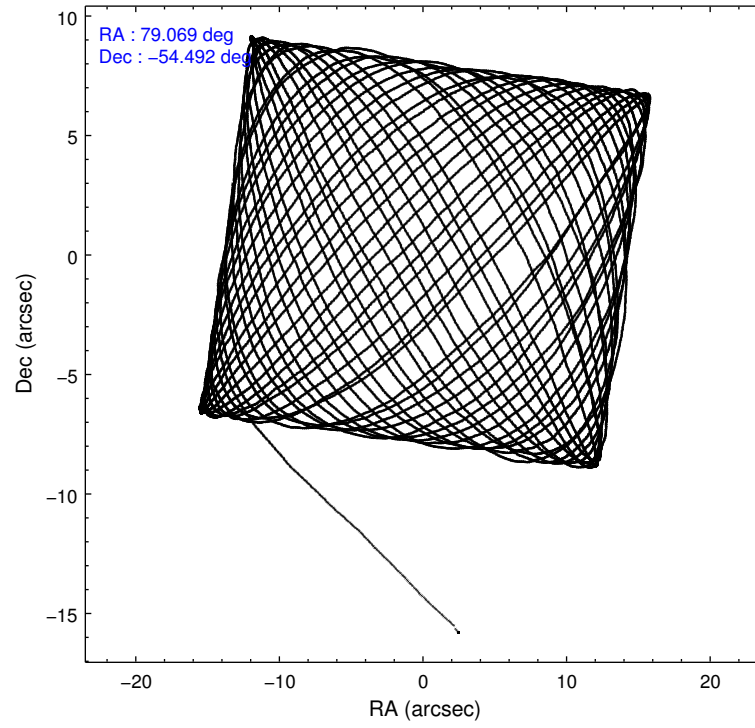
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	93762	99166	107378	111966	104464
rejected events	81311	84057	94480	91151	91930
rejected %	86%	84%	87%	81%	88%

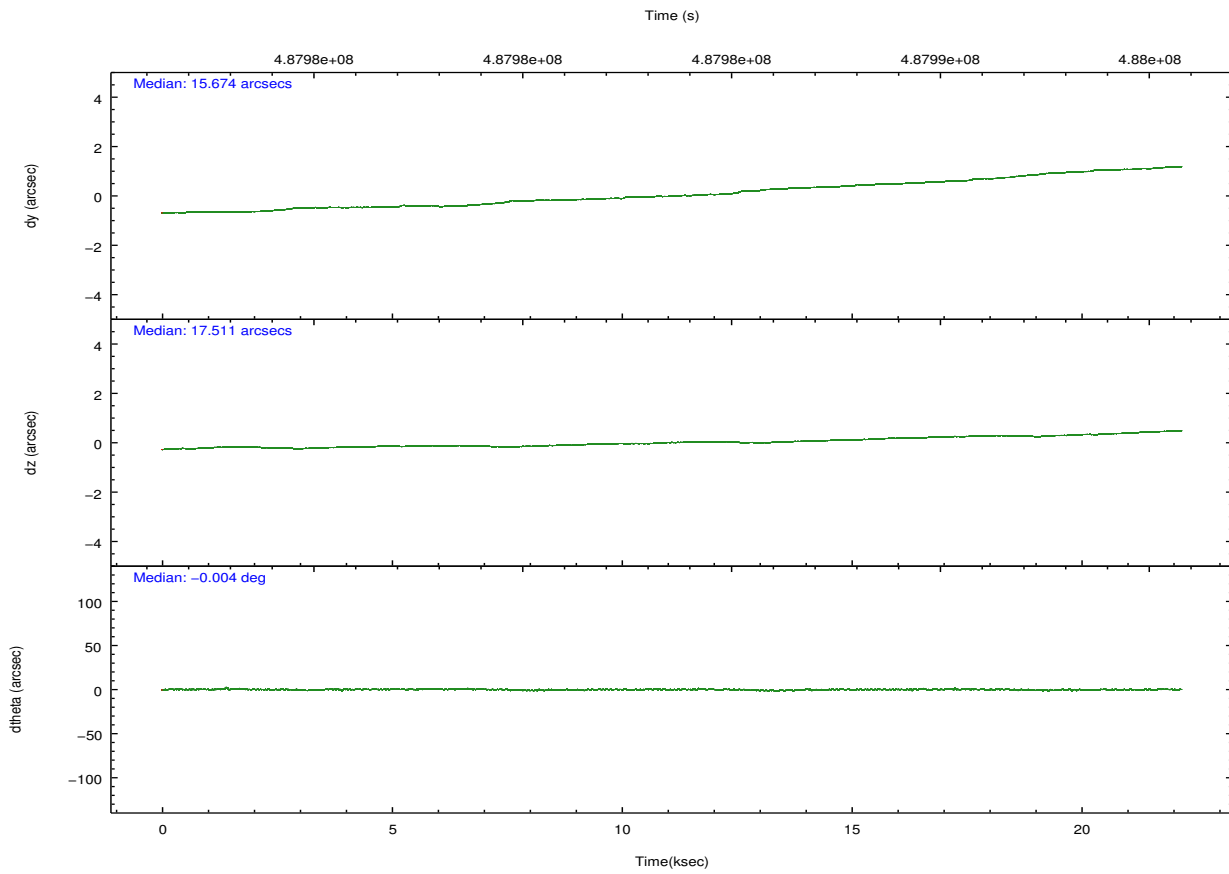
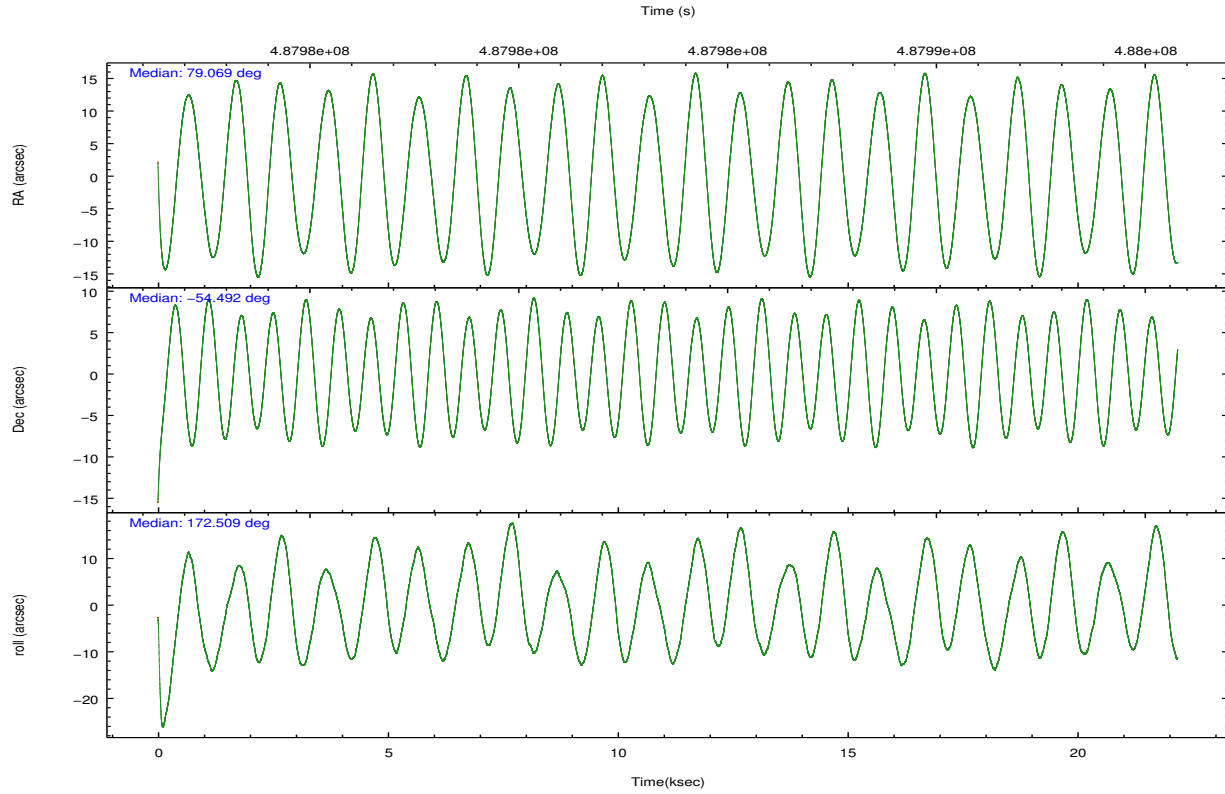
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4314	5790	4805	11374	4058
	4%	5%	4%	10%	3%
grade 1 events	47	63	72	102	50
	0%	0%	0%	0%	0%
grade 2 events	3075	3482	3090	3547	2885
	3%	3%	2%	3%	2%
grade 3 events	1320	1348	1291	1512	1328
	1%	1%	1%	1%	1%
grade 4 events	1182	1427	1226	1615	1237
	1%	1%	1%	1%	1%
grade 5 events	5125	5358	4701	5767	5550
	5%	5%	4%	5%	5%
grade 6 events	2566	3067	2488	2774	3031
	2%	3%	2%	2%	2%
grade 7 events	76133	78631	89705	85275	86325
	81%	79%	83%	76%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	79.113227	79.06954514394198	CCD I2 on	Y	Y
[deg] Pointing Dec	-54.481119	-54.49176967210151	CCD I3 on	Y	Y
[deg] Pointing Roll	172.339060	172.5121925714795	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-230.842463	-230.8317448903189	CCD S3 on	N	N
[mm] SIM translation stage offset	-2.75	-2.760708112610757	CCD S4 on	N	N
[s] Observation start time (MET)	487972648.184000	487971569.09294	CCD S5 on	N	N
Observation start date	2013-06-18T19:56:21	2013-06-18T19:39:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	487994648.184000	487994965.74421	On-chip summing requested	N	N
Observation end date	2013-06-19T02:03:01	2013-06-19T02:09:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





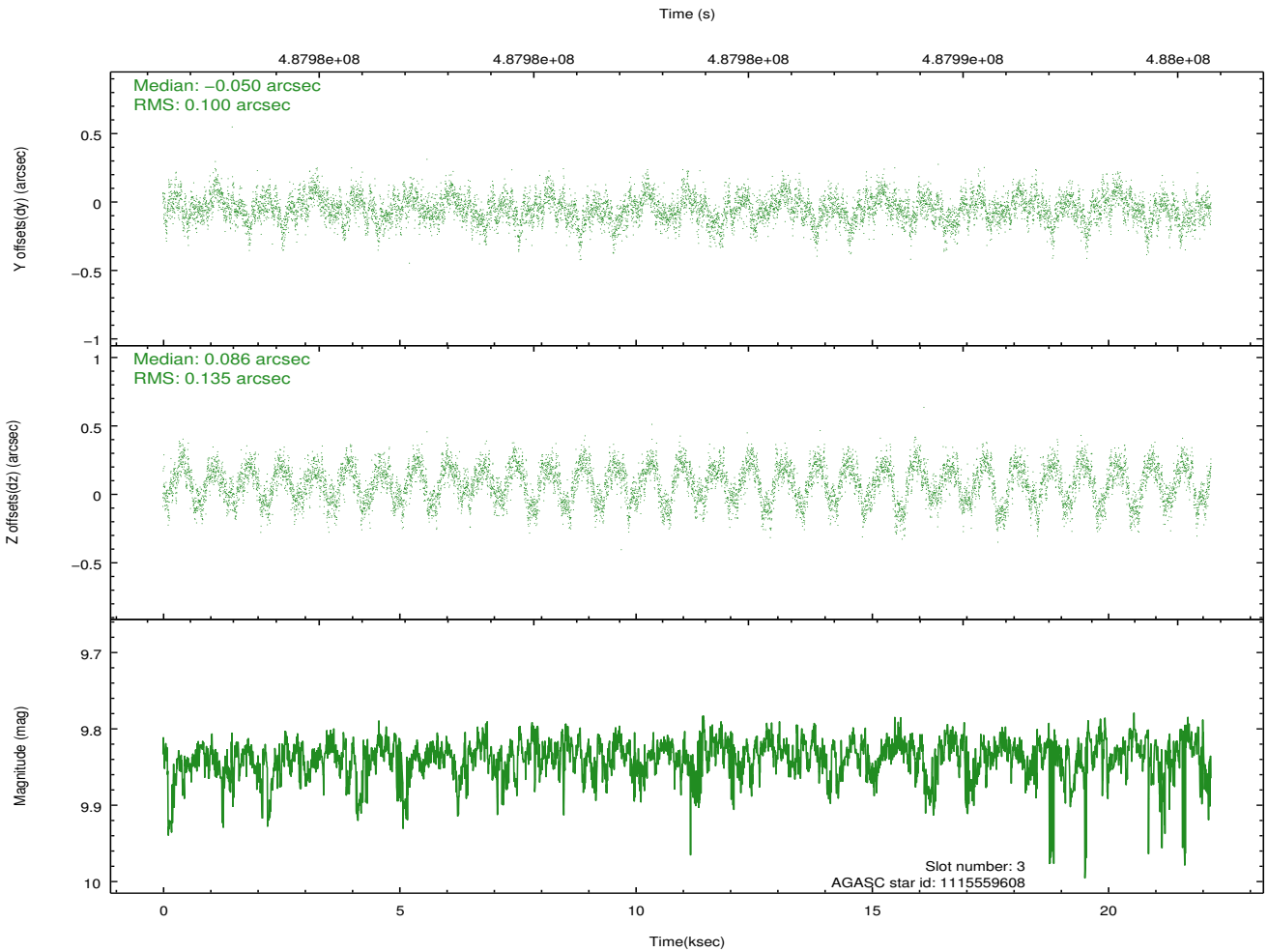
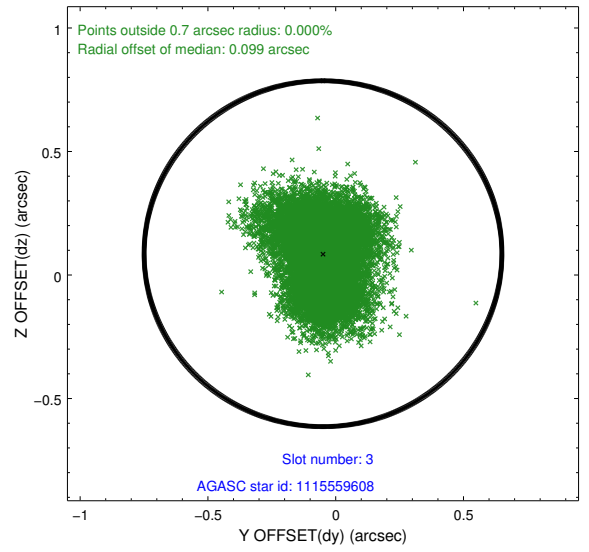
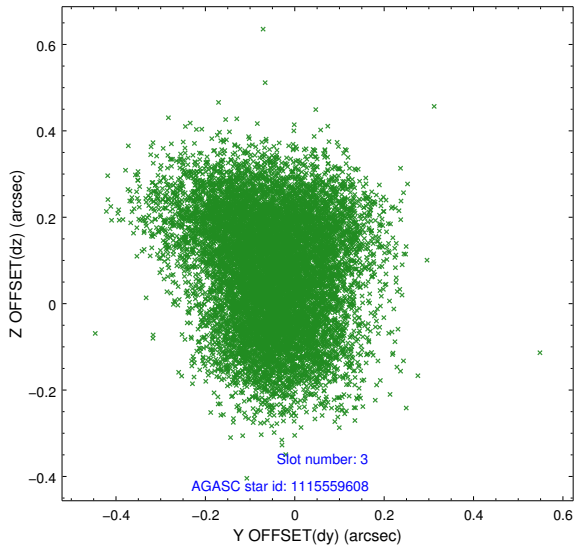
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	5410	0.041	0.033	0.013	0.023	0.000000	0.000000	923.67	-897.76
1	FID		ACIS-I-5	7.06	5411	-0.215	0.054	0.010	0.016	0.000000	0.000000	-1824.66	999.59
2	FID		ACIS-I-6	7.07	5411	0.084	-0.016	0.012	0.019	0.000000	0.000000	389.02	1644.26
3	GUIDE	used	1115559608	9.84	10782	-0.050	0.086	0.183	0.282	78.472164	-54.228768	1457.40	-714.01
4	GUIDE	used	1115561048	9.15	10814	0.112	0.273	0.120	0.191	79.669489	-54.329081	-1084.54	-693.14
5	GUIDE	used	1115955472	9.37	10794	-0.037	-0.208	0.141	0.211	77.942428	-55.017142	2134.91	2254.75
6	GUIDE	used	1116998624	9.37	10816	0.049	0.114	0.128	0.201	80.238496	-54.391114	-2296.41	-618.14
7	GUIDE	used	1116997312	9.40	10801	-0.067	-0.266	0.139	0.224	80.105745	-55.074450	-2314.32	1858.47

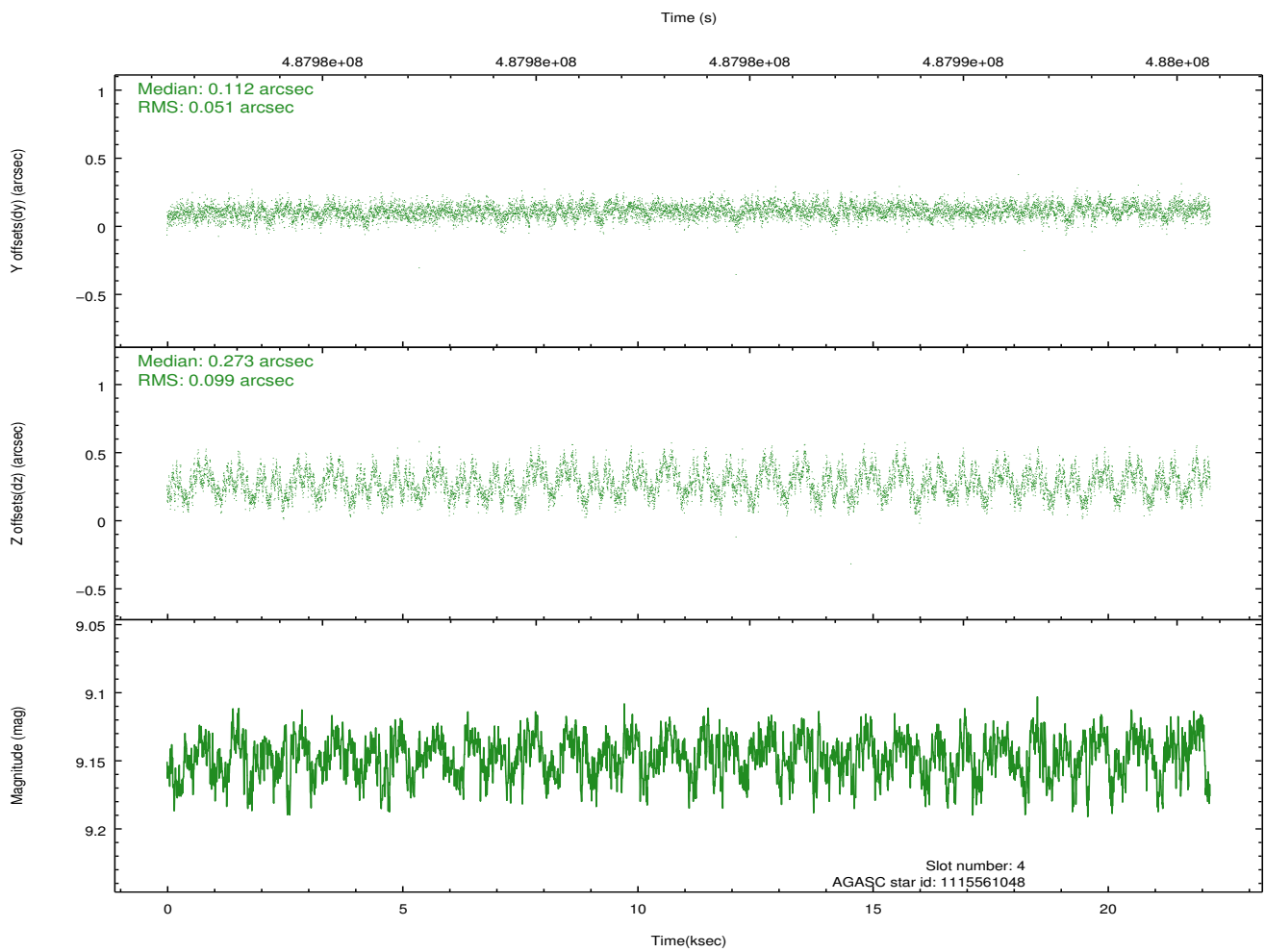
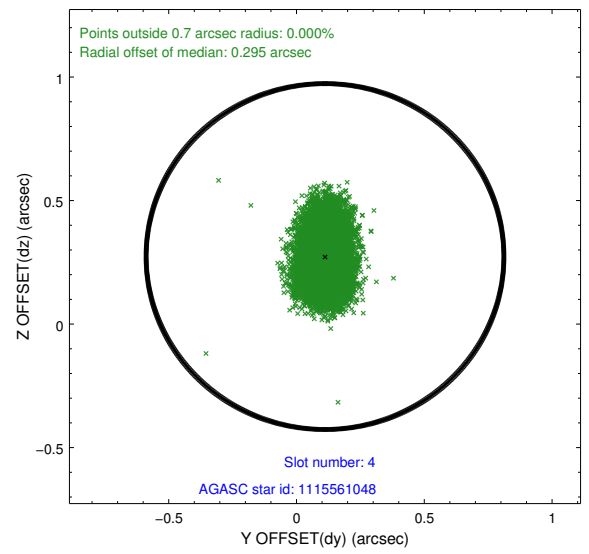
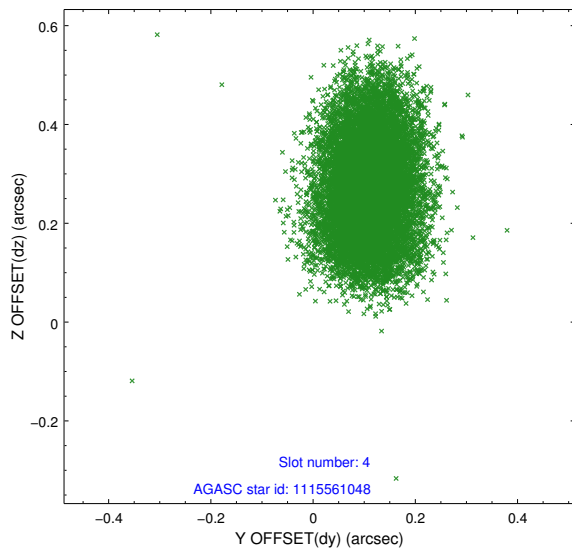
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2.4 Star Slots

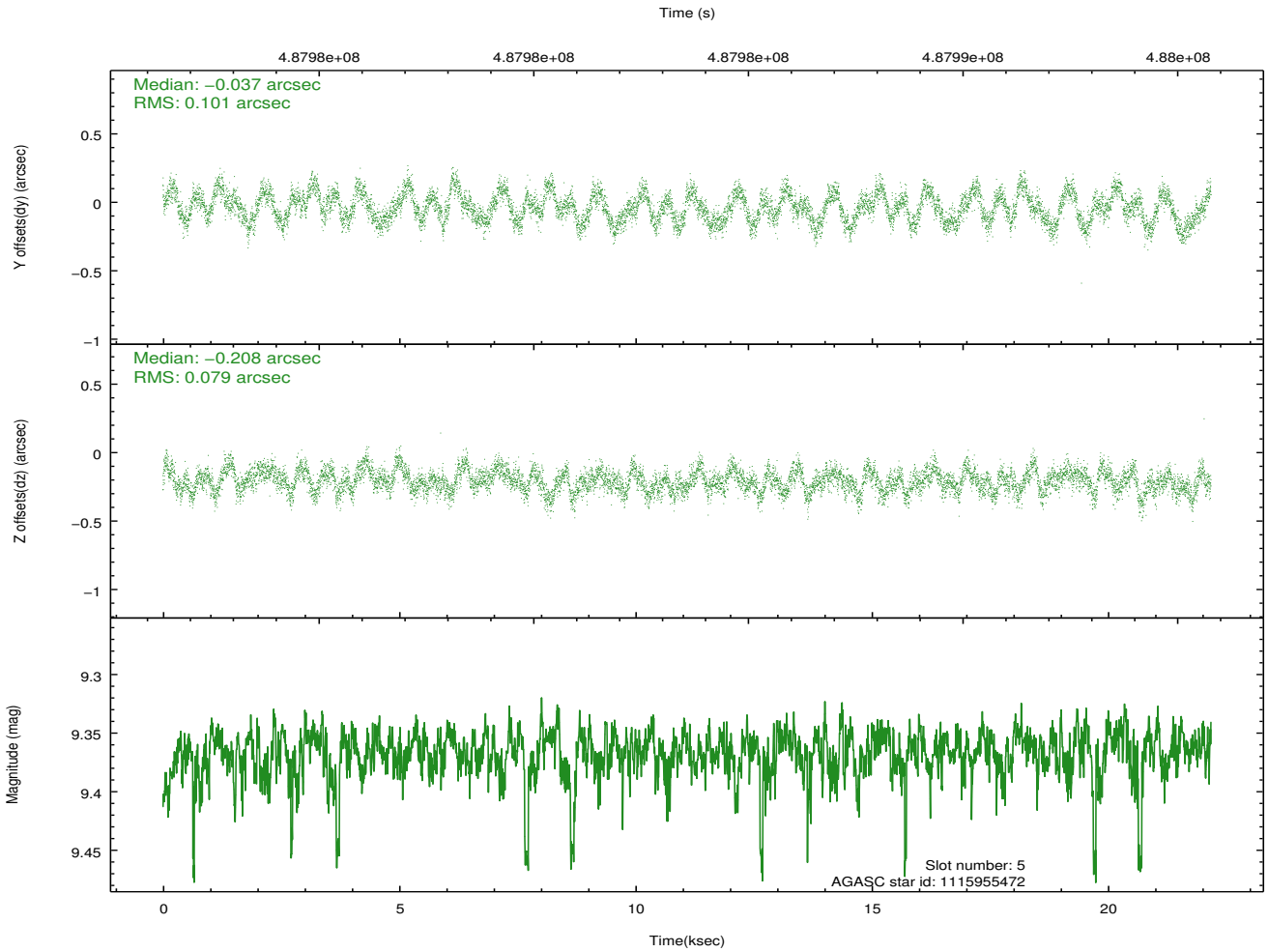
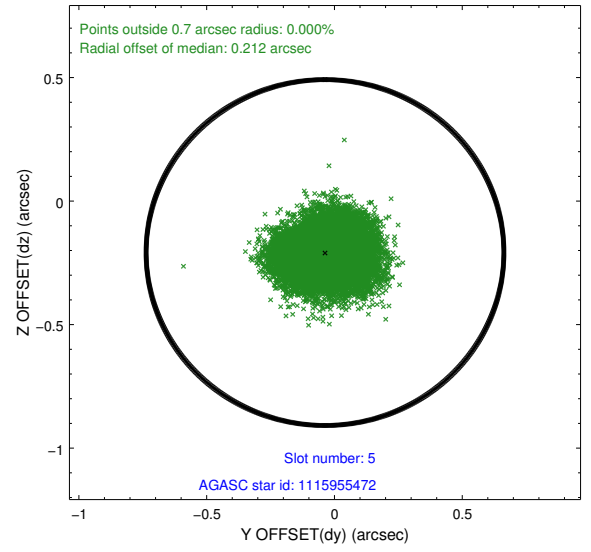
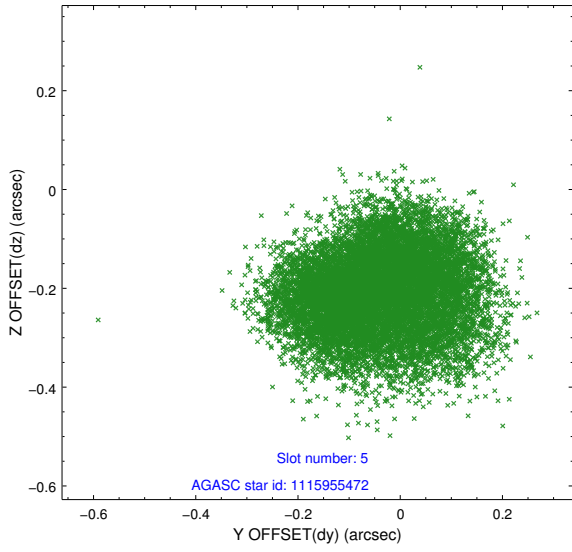
2.4.1 Slot 3



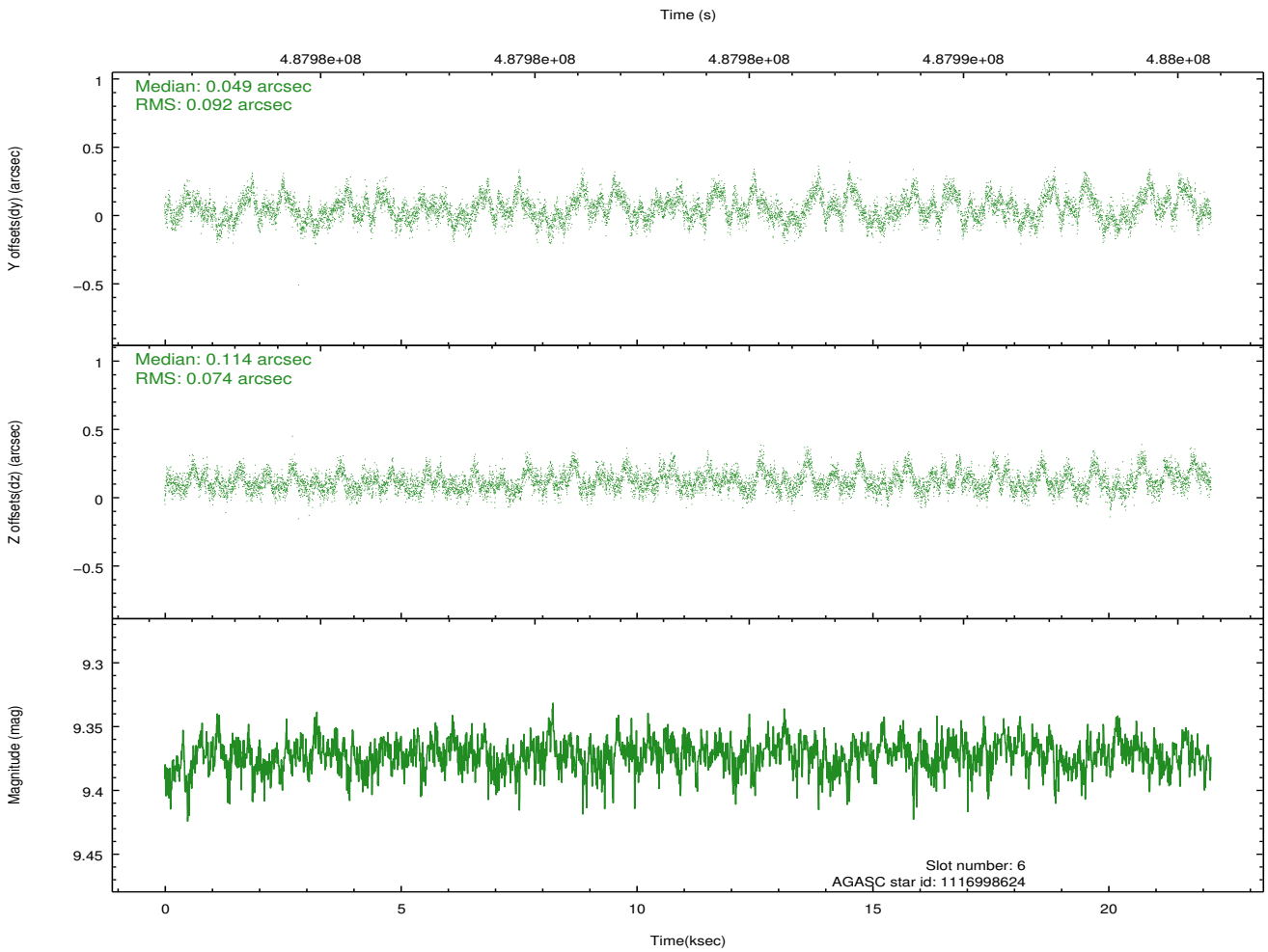
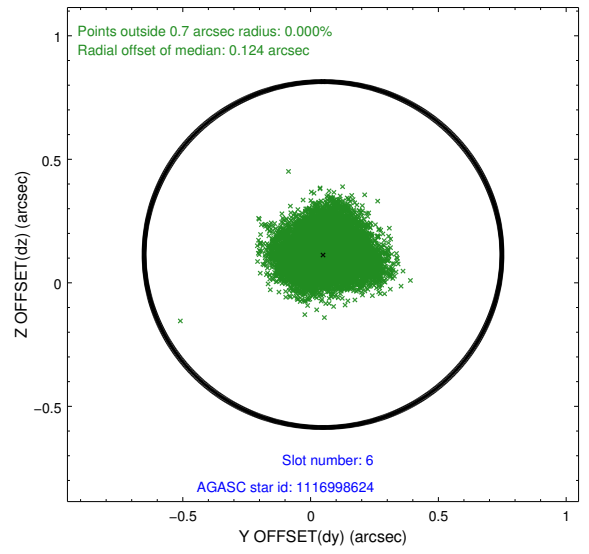
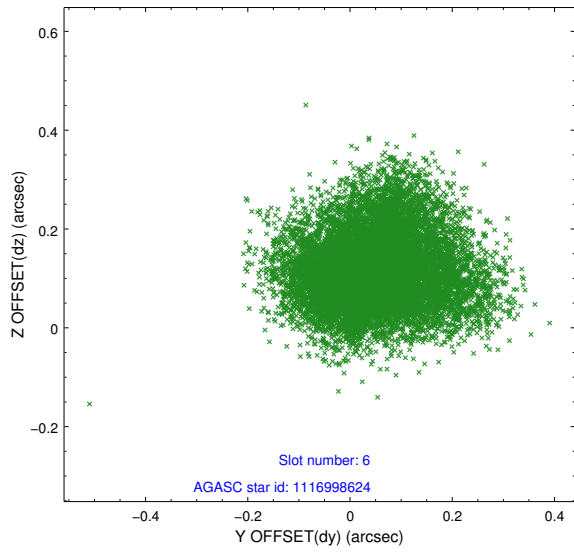
2.4.2 Slot 4



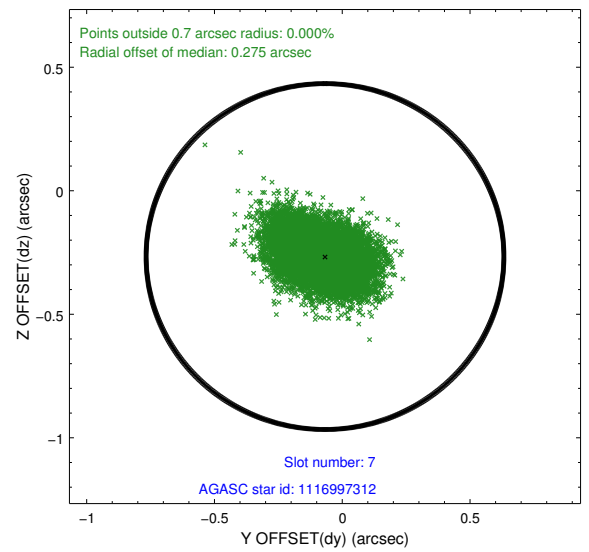
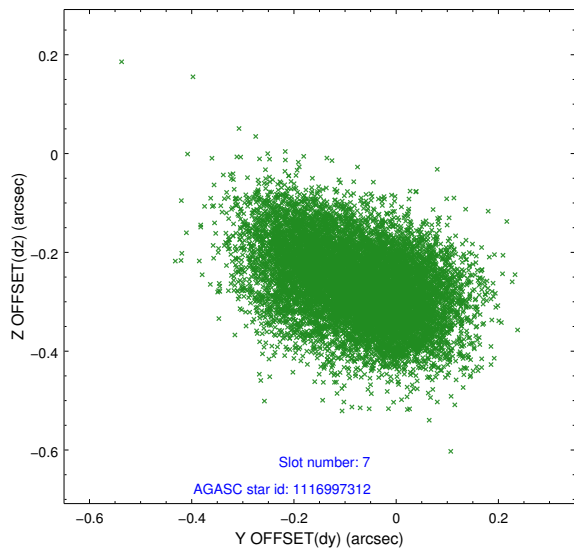
2.4.3 Slot 5



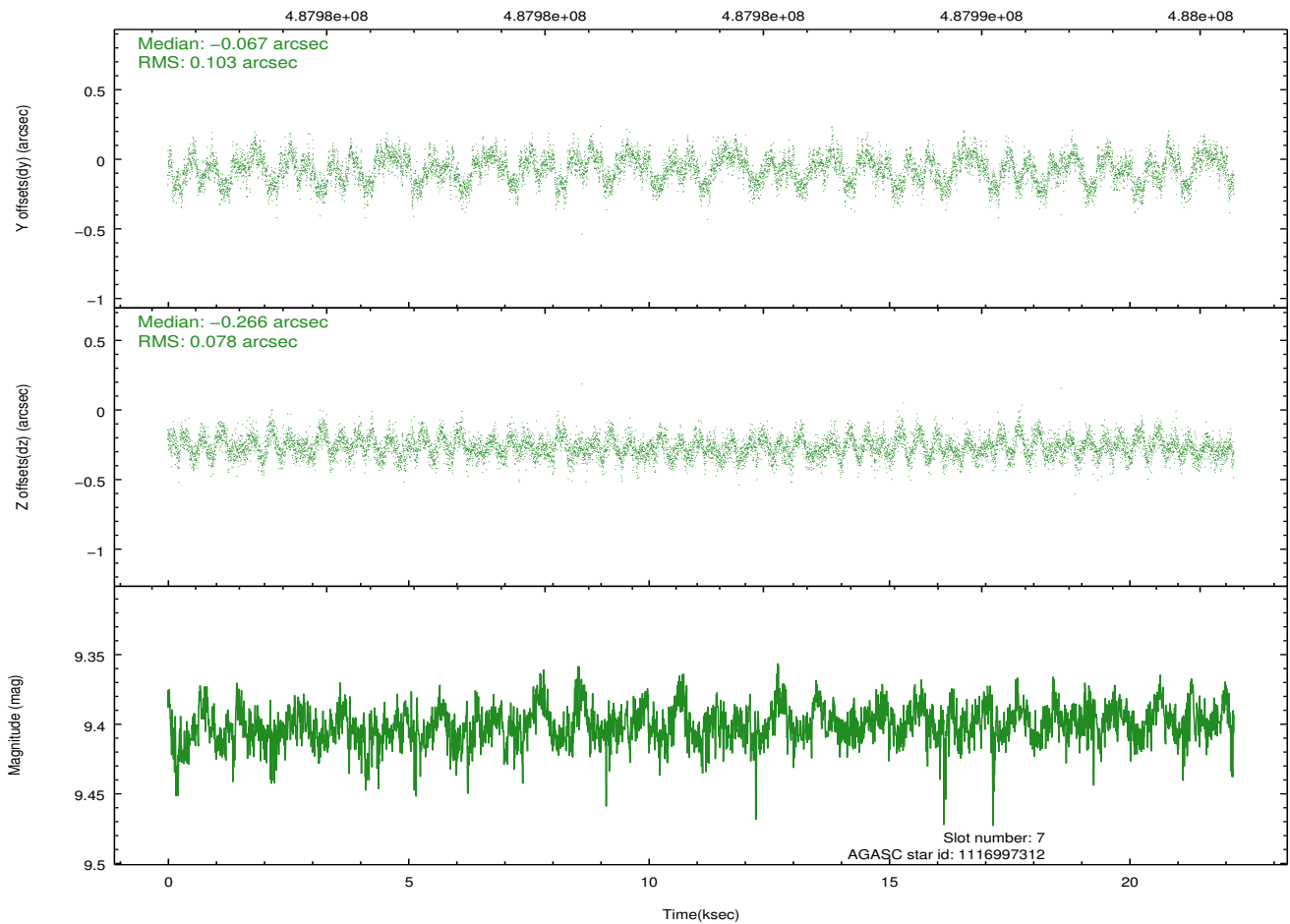
2.4.4 Slot 6



2.4.5 Slot 7

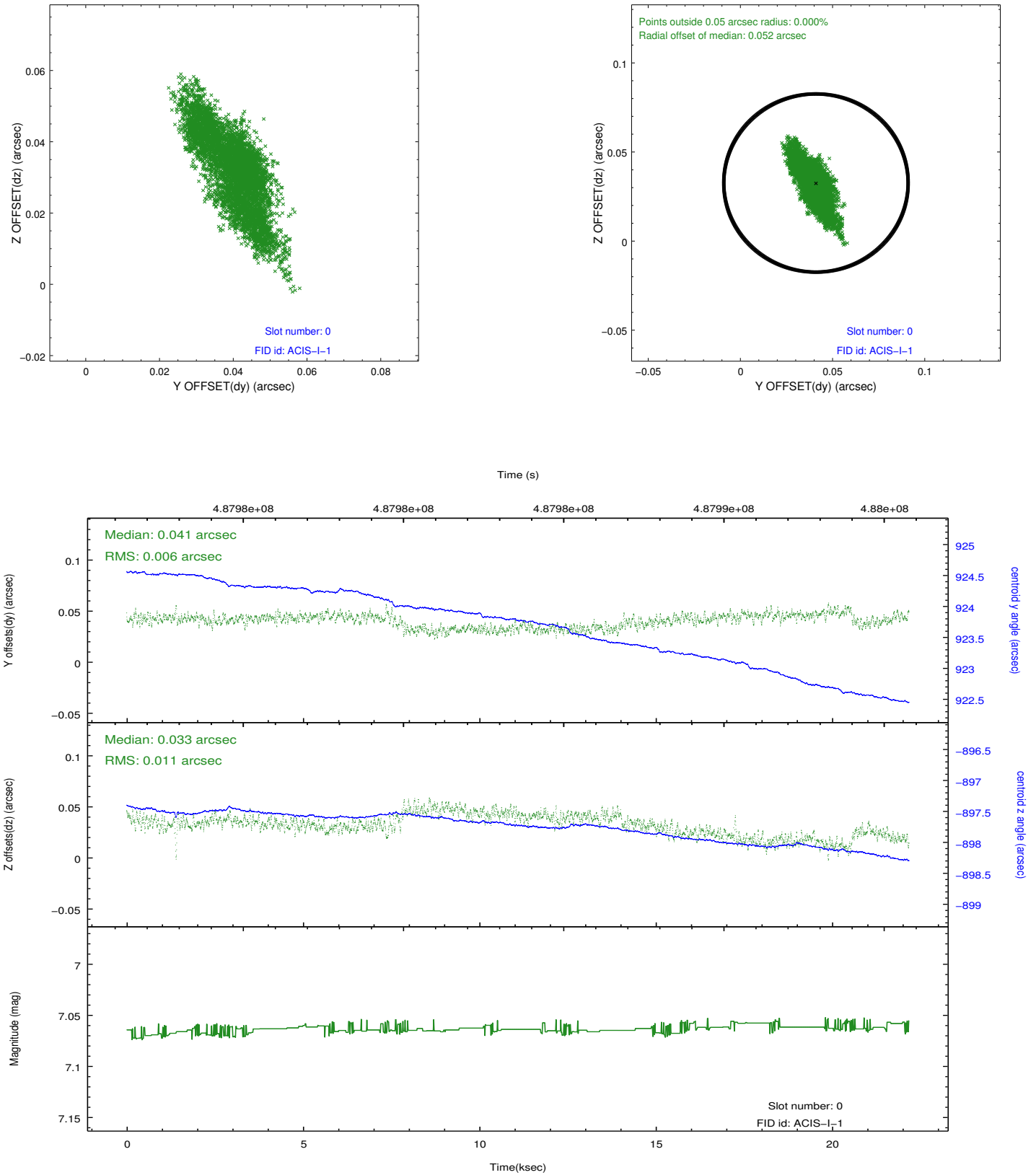


Time (s)

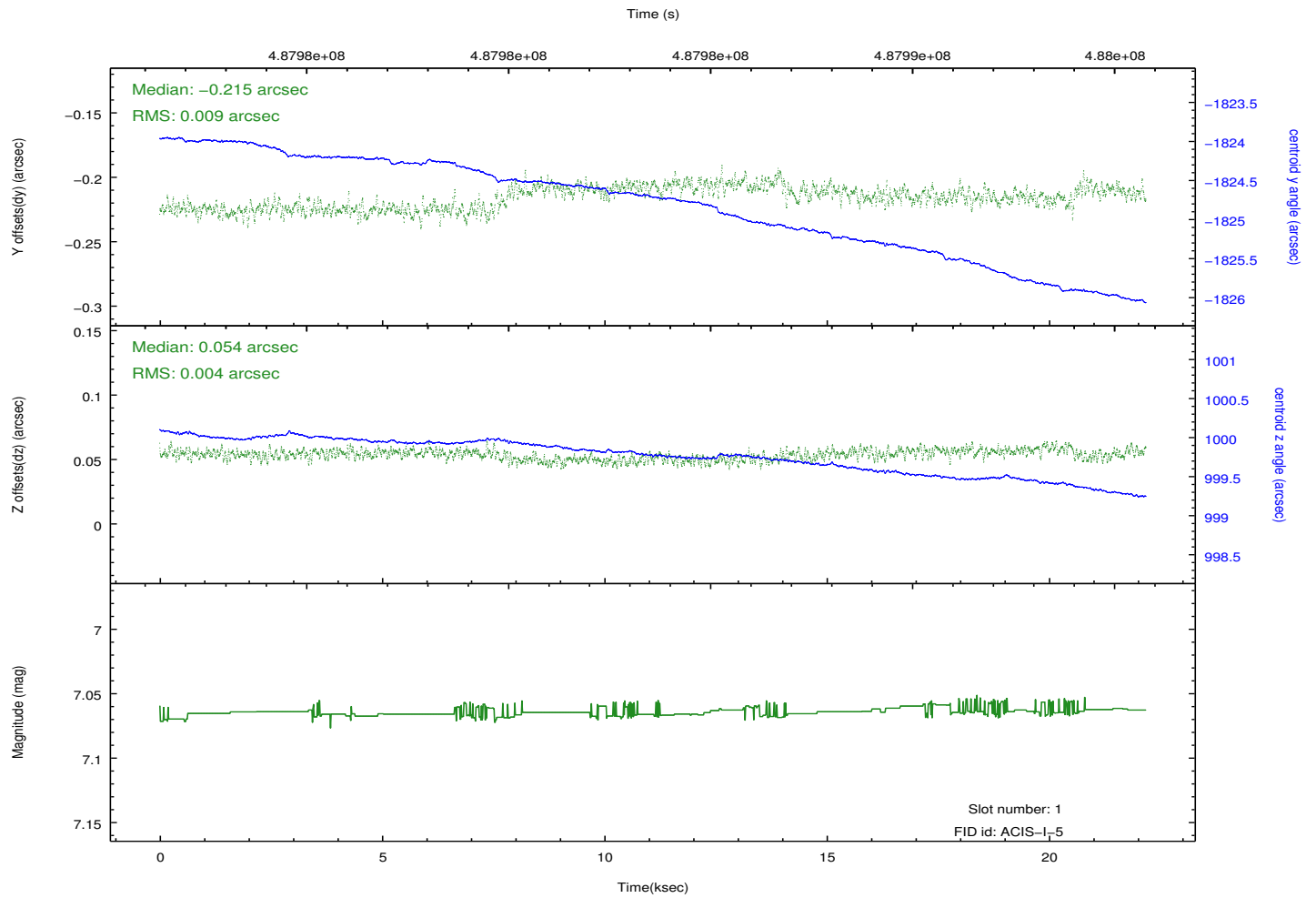
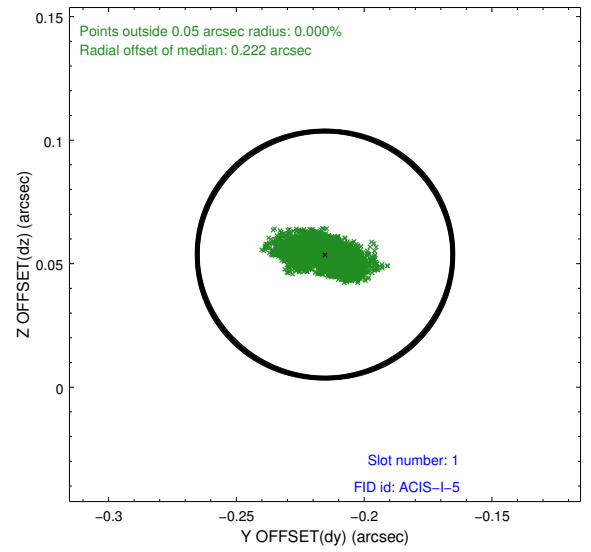
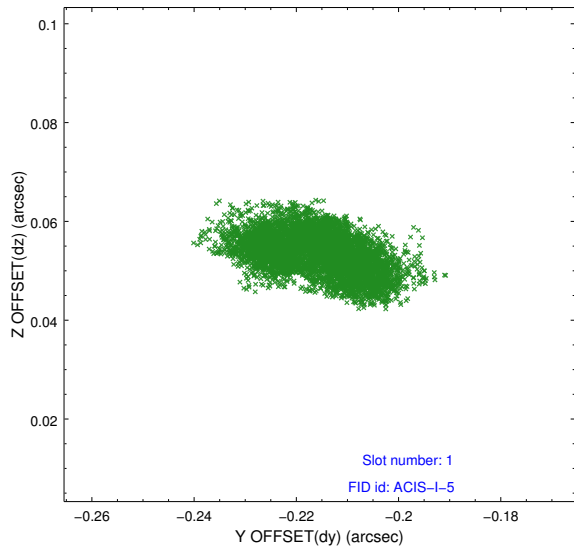


2.5 FID Slots

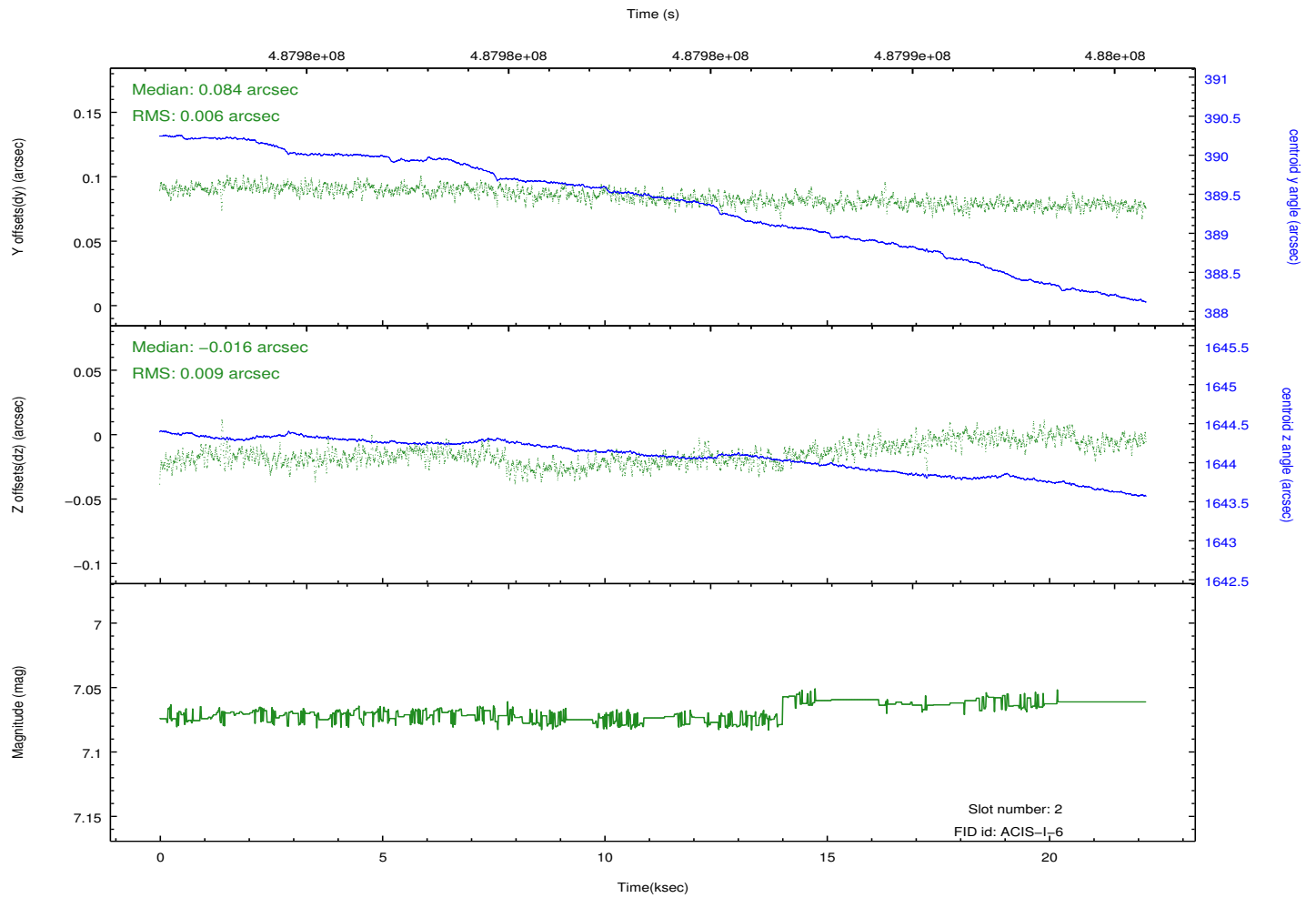
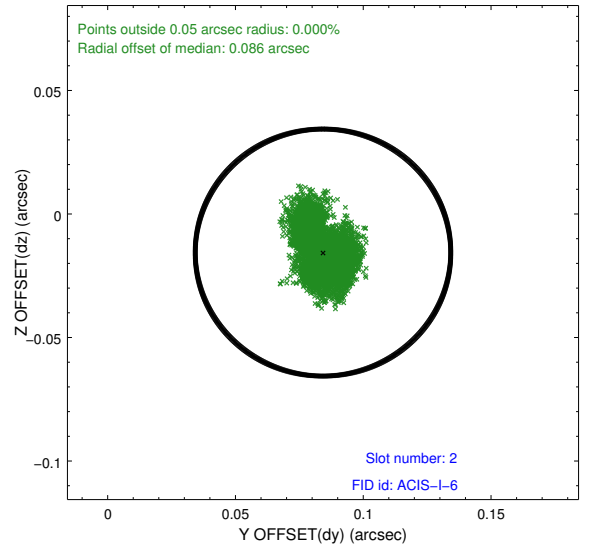
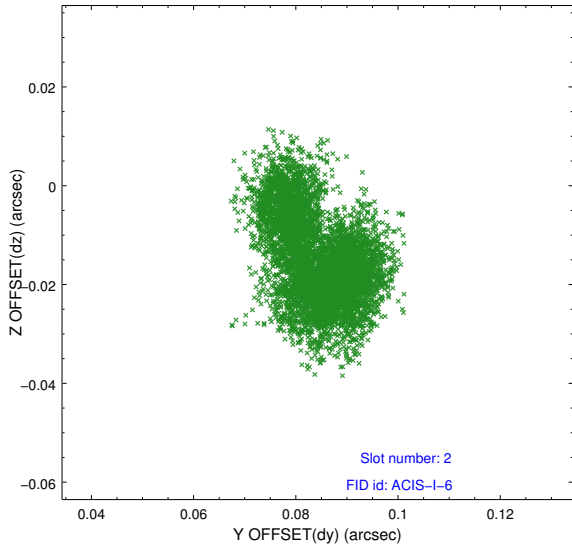
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.767709569216

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.