

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17002 - L2 Version 1
Chandra X-Ray Center

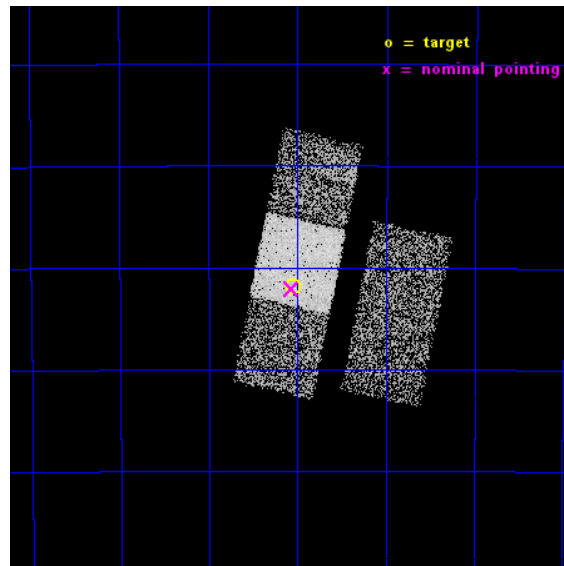
L2 Processing Date : Dec 20 2014

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1 Front

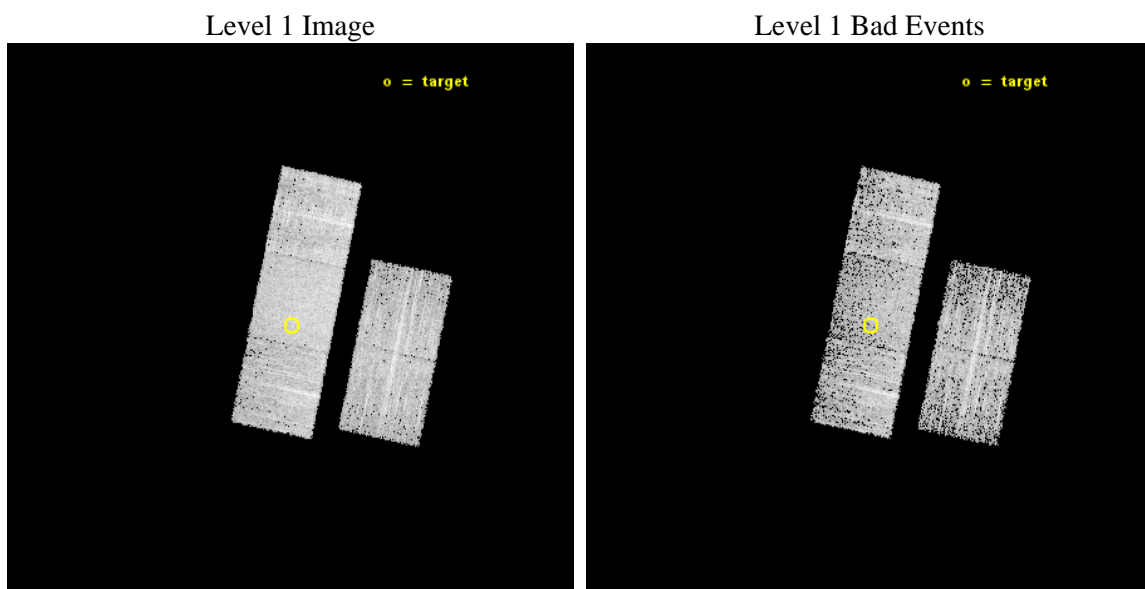
seq_num	601195	Sequence number
obs_id	17002	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC7690	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	353.260417	Observer's specified target RA [deg]
dec_targ	-51.698361	Observer's specified target Dec [deg]
ra_nom	353.26730851307	Nominal RA [deg]
dec_nom	-51.701652696896	Nominal Dec [deg]
roll_nom	281.85997341411	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5260.7000404596	Sum of GTIs [s]
livetime	5191.96512156	Livetime [s]
ontime2	5260.7000404596	Sum of GTIs [s]
ontime3	5260.7000404596	Sum of GTIs [s]
ontime6	5260.7000404596	Sum of GTIs [s]
ontime7	5260.7000404596	Sum of GTIs [s]
ontime8	5260.7000404596	Sum of GTIs [s]
l2events	27452	Number of level 2 events



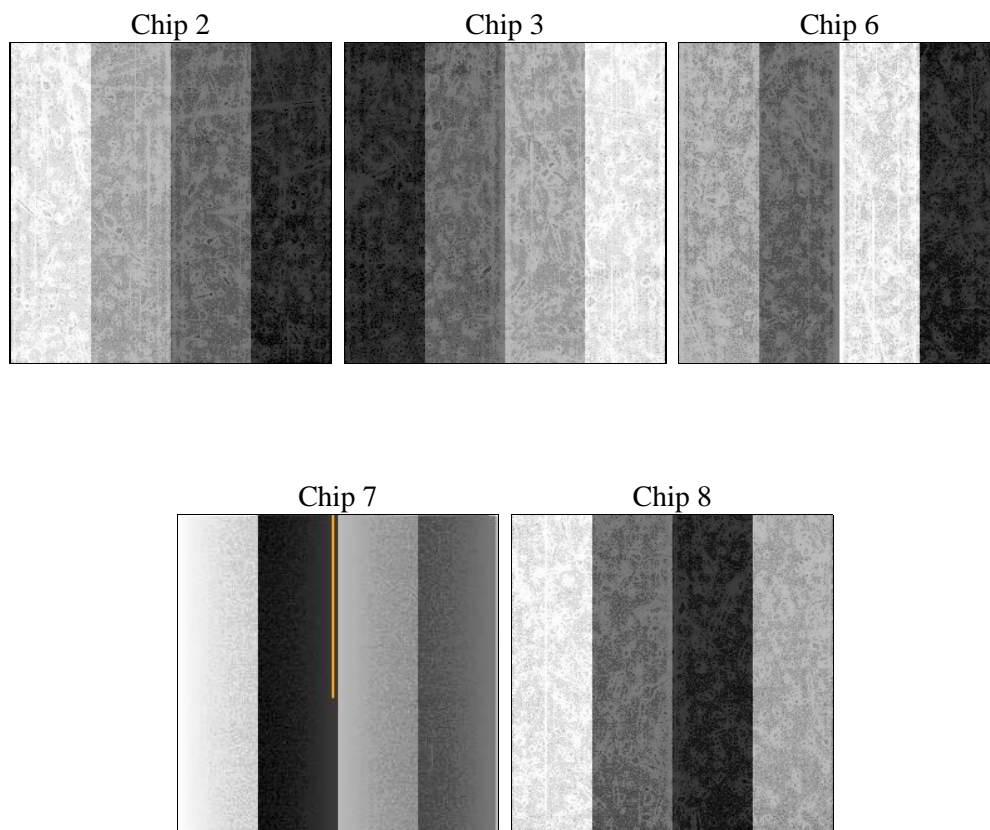
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	5260.7000404596	Sum of GTIs [s]
caldsver	4.6.5	 	ontime2	5260.7000404596	Sum of GTIs [s]
date	2014-12-20T15:29:42	Date and time of file creation	ontime3	5260.7000404596	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5260.7000404596	Sum of GTIs [s]
			ontime7	5260.7000404596	Sum of GTIs [s]
			ontime8	5260.7000404596	Sum of GTIs [s]
			l1events	162043	Number of level 1 events

2.1.4 Events

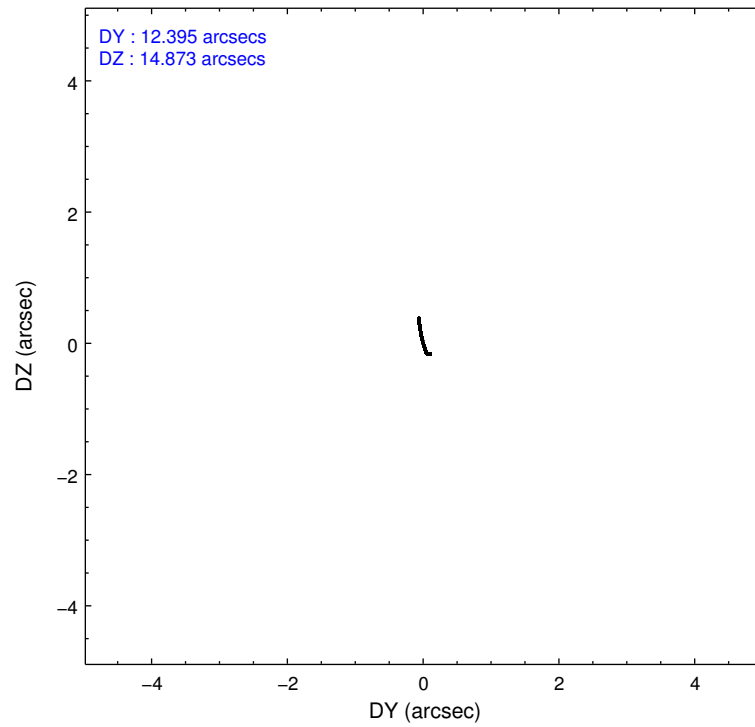
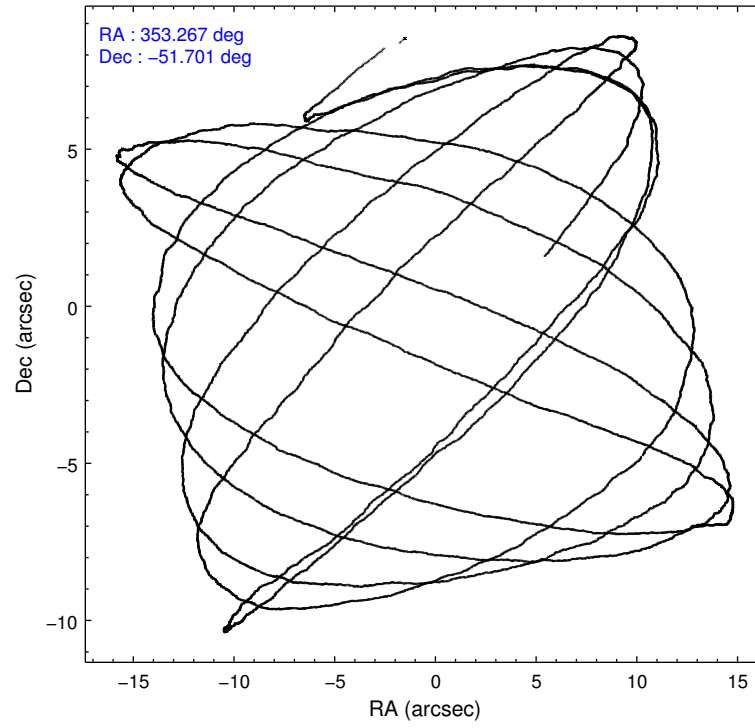
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	27191	27157	29847	38877	38971
rejected events	24107	24148	26436	22534	29811
rejected %	88%	88%	88%	57%	76%

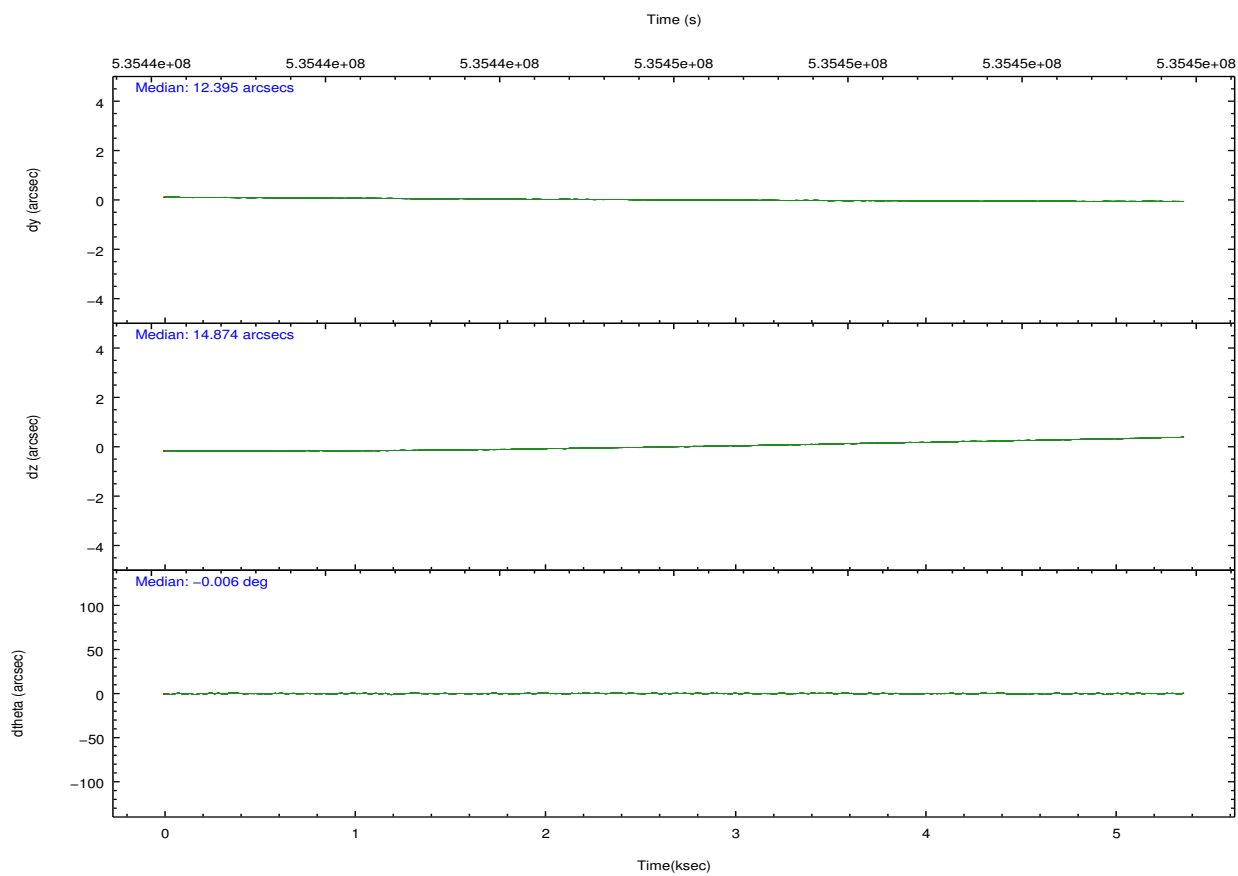
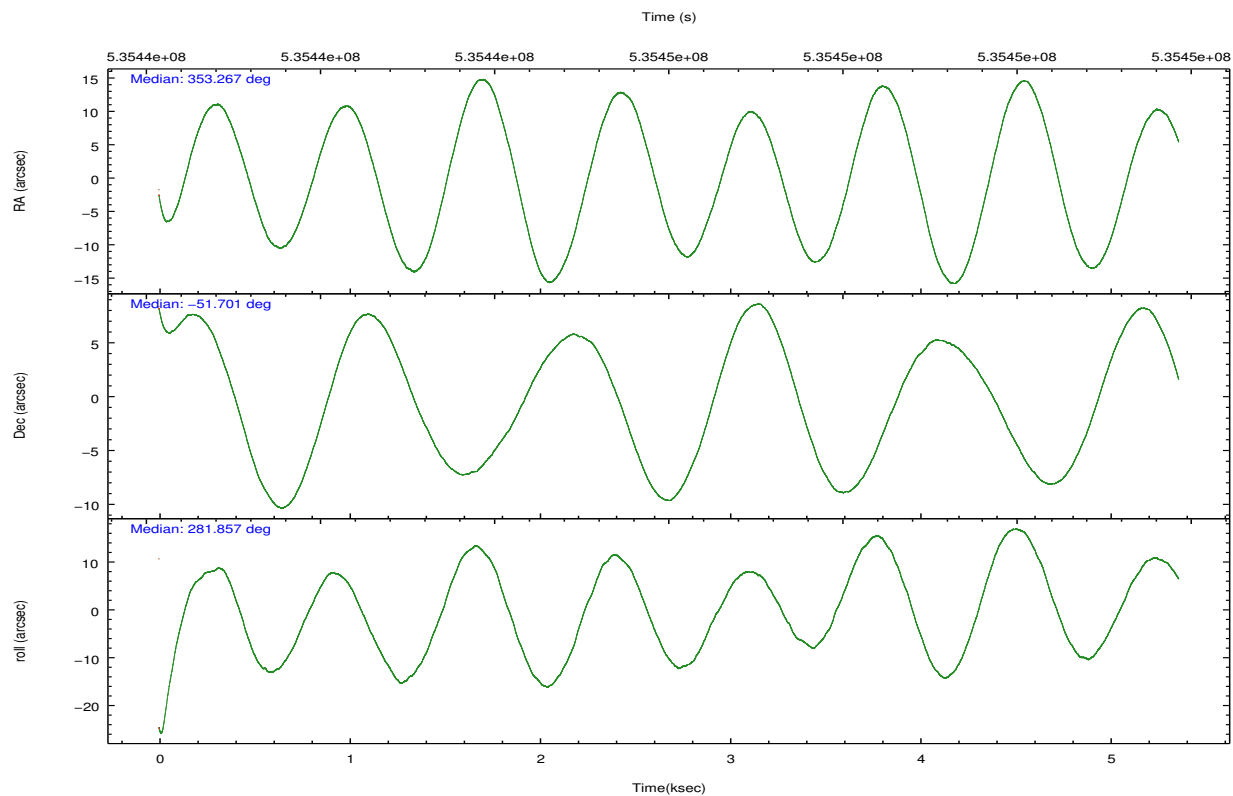
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1102	1000	1064	1330	2625
	4%	3%	3%	3%	6%
grade 1 events	6	13	16	42	29
	0%	0%	0%	0%	0%
grade 2 events	685	662	843	3328	2127
	2%	2%	2%	8%	5%
grade 3 events	337	329	340	1289	990
	1%	1%	1%	3%	2%
grade 4 events	357	331	280	1183	941
	1%	1%	0%	3%	2%
grade 5 events	1214	1455	1403	3633	2092
	4%	5%	4%	9%	5%
grade 6 events	606	691	888	9234	2486
	2%	2%	2%	23%	6%
grade 7 events	22884	22676	25013	18838	27681
	84%	83%	83%	48%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	353.237250	353.2673085130656	CCD I2 on	O2	Y
[deg] Pointing Dec	-51.681585	-51.70165269689618	CCD I3 on	O1	Y
[deg] Pointing Roll	281.679807	281.8599734141131	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	535443483.184000	535442324.95786	CCD S5 on	N	N
Observation start date	2014-12-20T06:16:56	2014-12-20T05:58:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535448683.184000	535449517.89576	On-chip summing requested	N	N
Observation end date	2014-12-20T07:43:36	2014-12-20T07:58:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



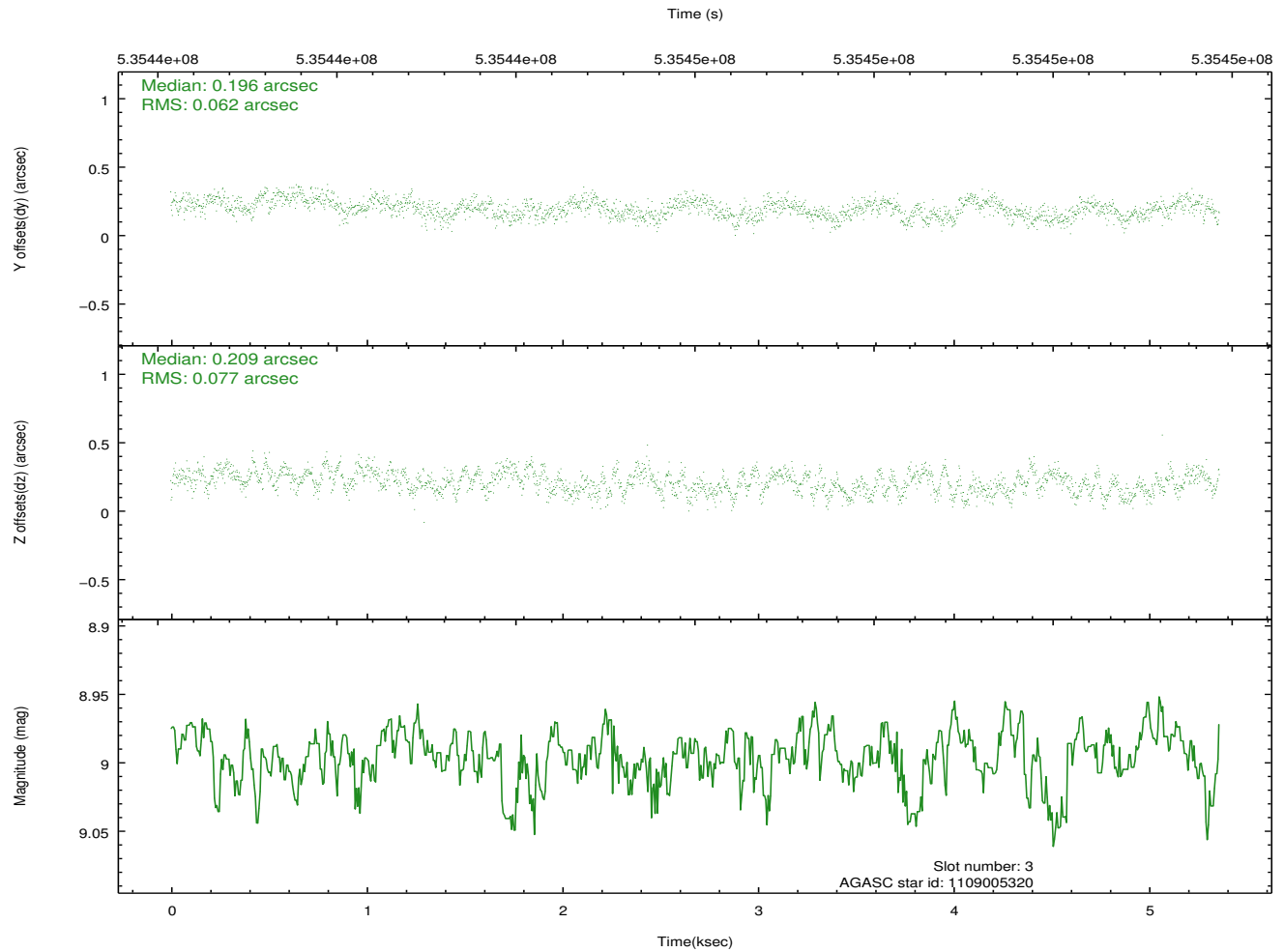
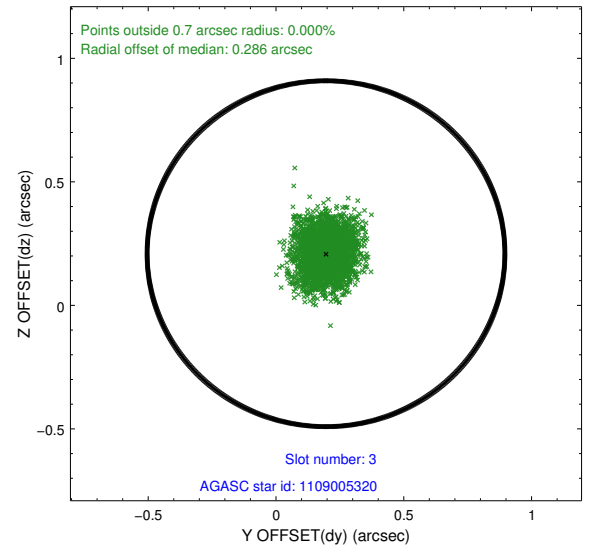
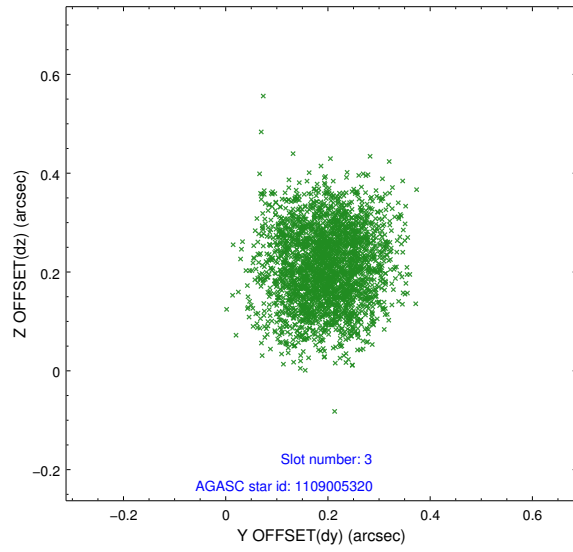


Slot Statistics

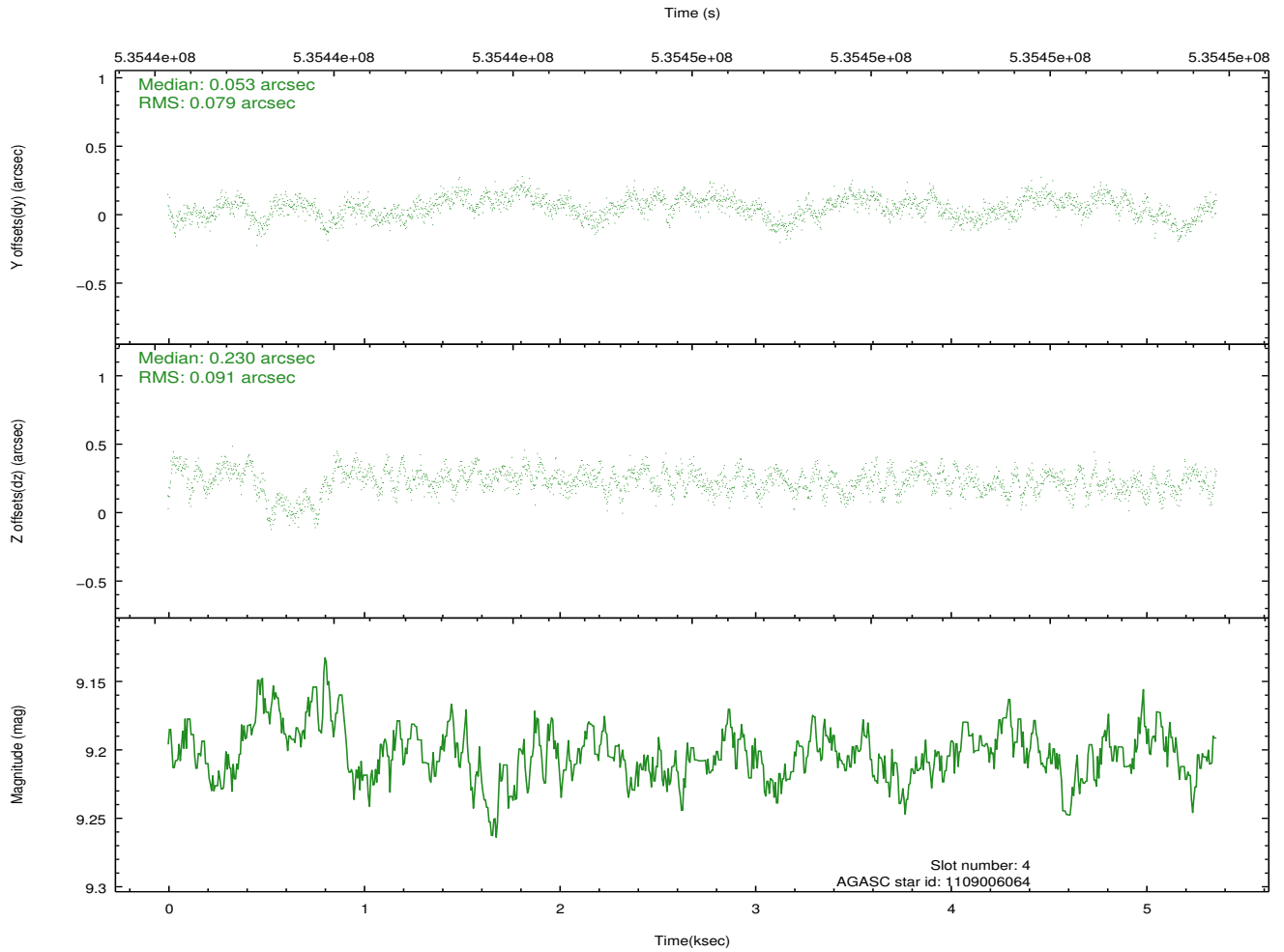
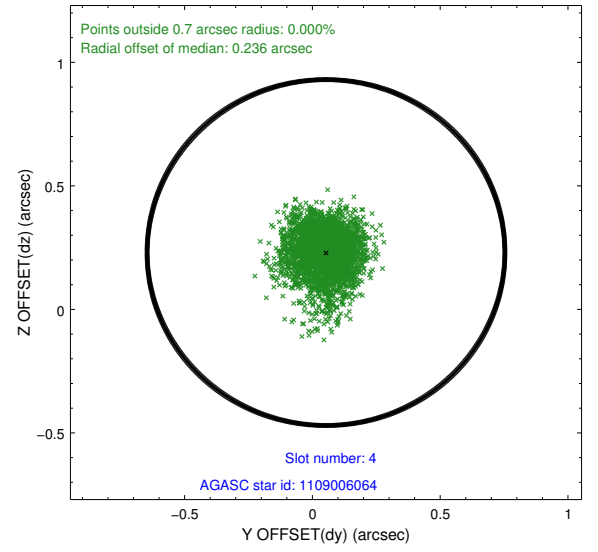
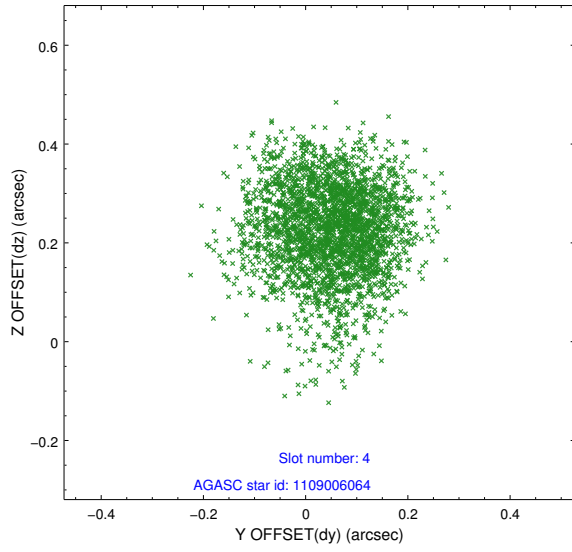
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.24	1308	0.052	-0.052	0.017	0.027	0.000000	0.000000	930.80	-1731.95
1	FID		ACIS-S-4	7.24	1308	0.170	0.014	0.012	0.018	0.000000	0.000000	2148.92	171.12
2	FID		ACIS-S-5	7.28	1308	-0.249	0.049	0.010	0.016	0.000000	0.000000	-1816.95	165.97
3	GUIDE	used	1109005320	9.00	2615	0.196	0.209	0.107	0.168	352.318268	-51.588018	-732.83	-1947.37
4	GUIDE	used	1109006064	9.20	2614	0.053	0.230	0.129	0.209	352.185536	-51.436354	-1325.18	-2136.79
5	GUIDE	used	1109132528	8.30	2616	-0.061	-0.105	0.070	0.114	353.889153	-52.133267	1890.79	1080.05
6	GUIDE	used	1109135016	7.83	2616	-0.163	-0.195	0.084	0.129	354.348957	-51.732781	701.95	2385.77
7	GUIDE	used	1109132976	9.59	2609	-0.020	-0.146	0.187	0.291	354.382526	-51.949865	1480.87	2289.93

2.4 Star Slots

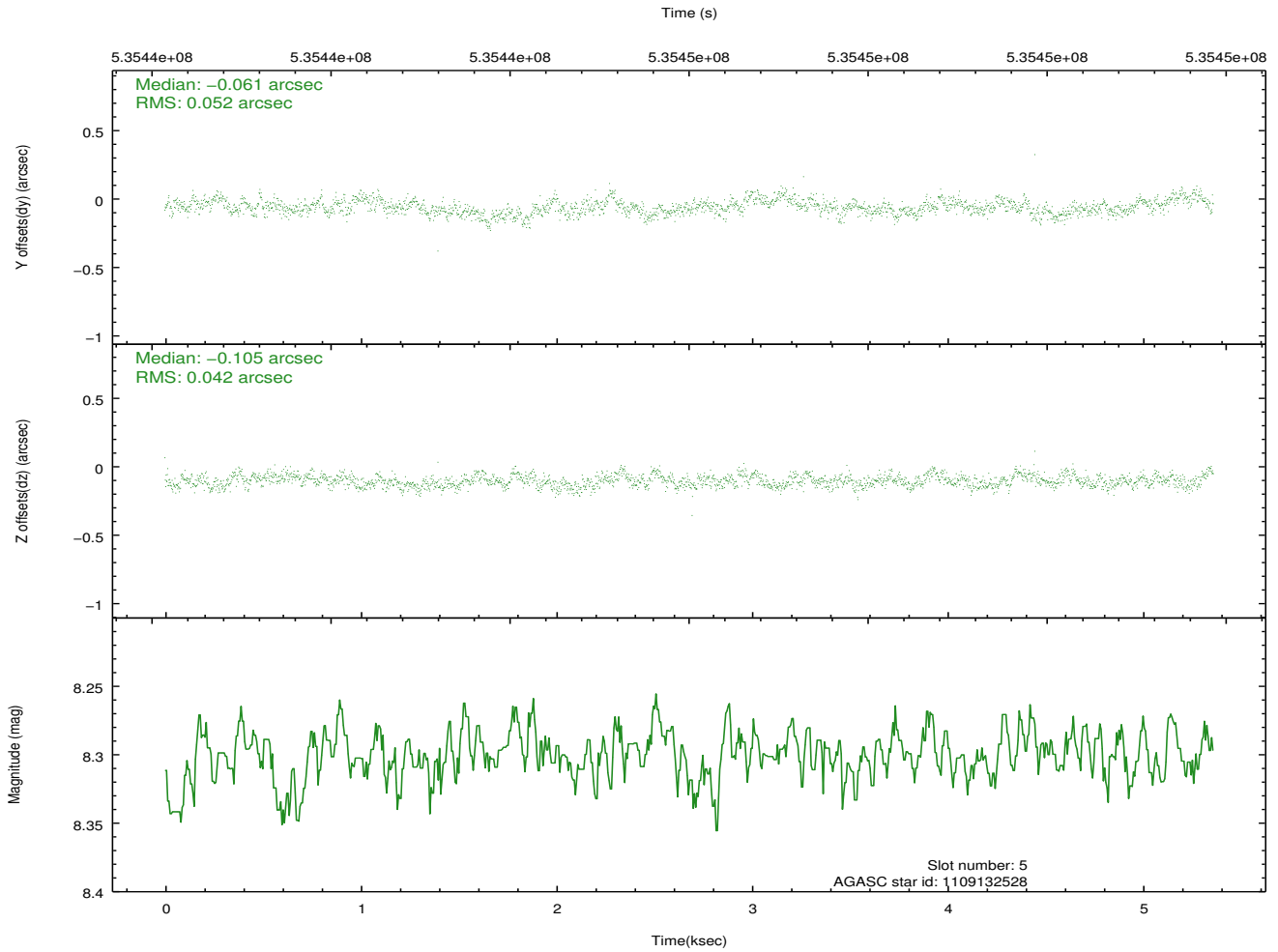
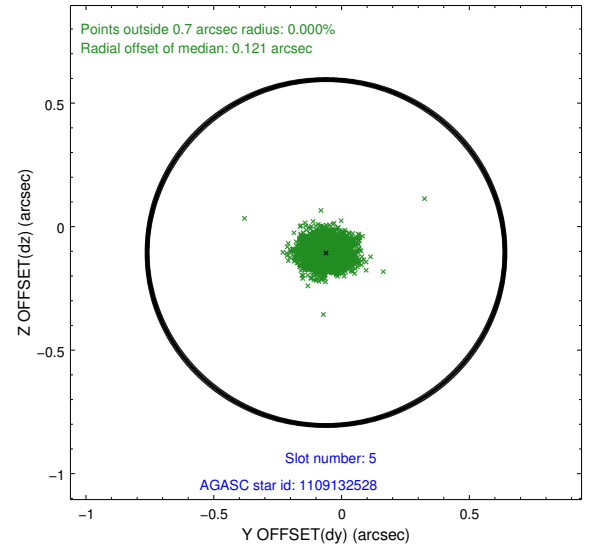
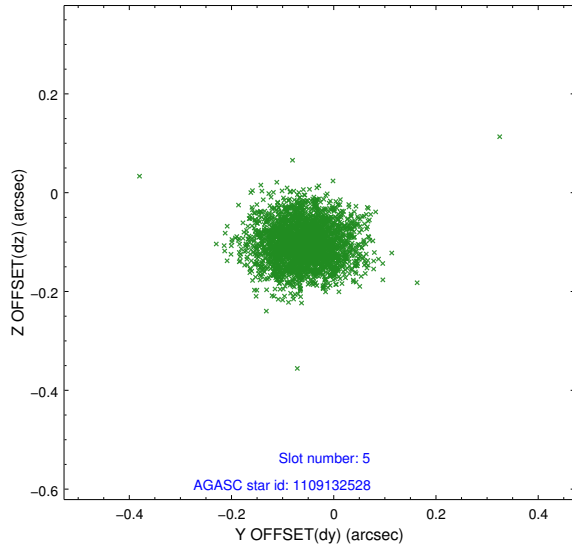
2.4.1 Slot 3



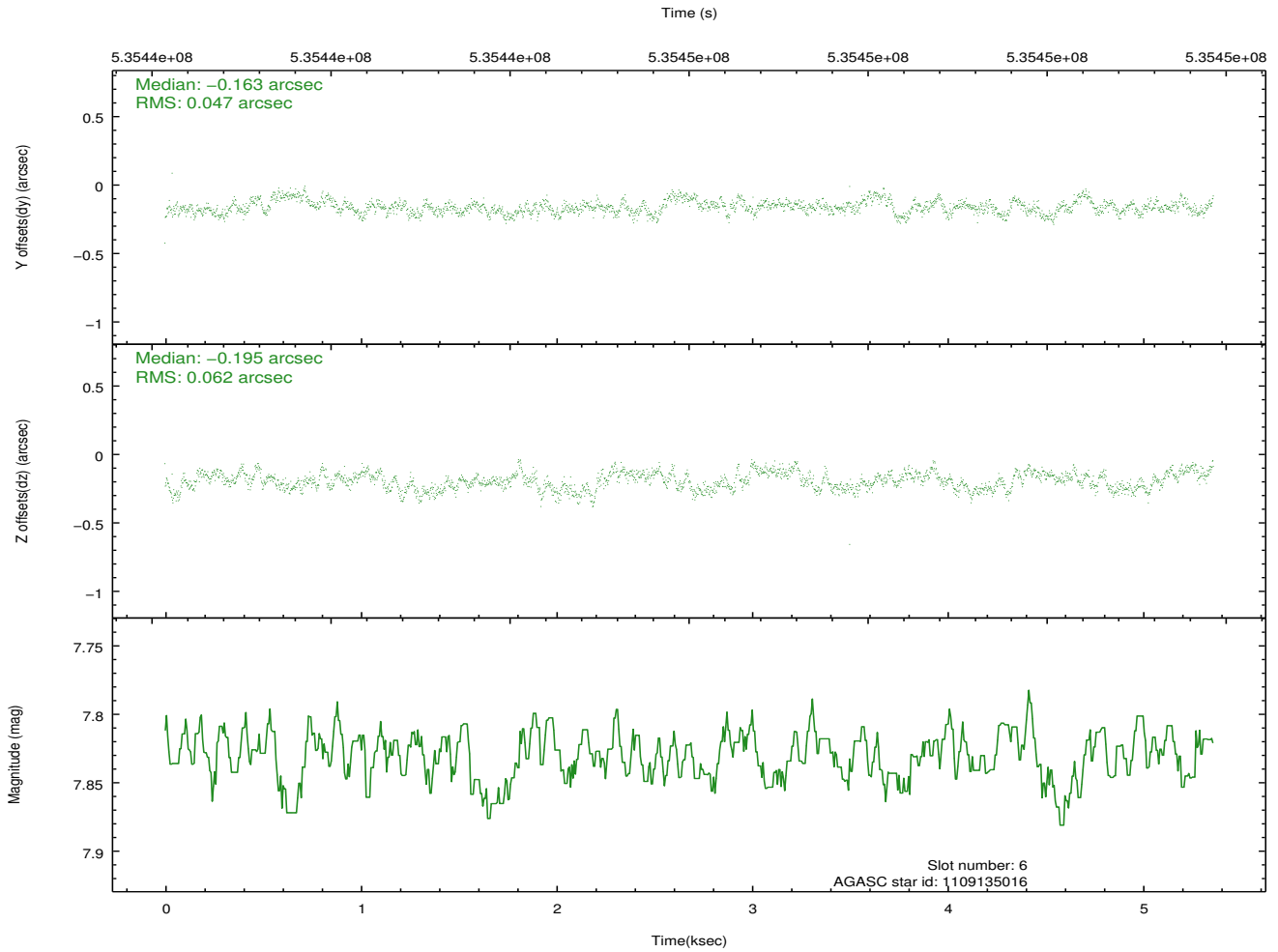
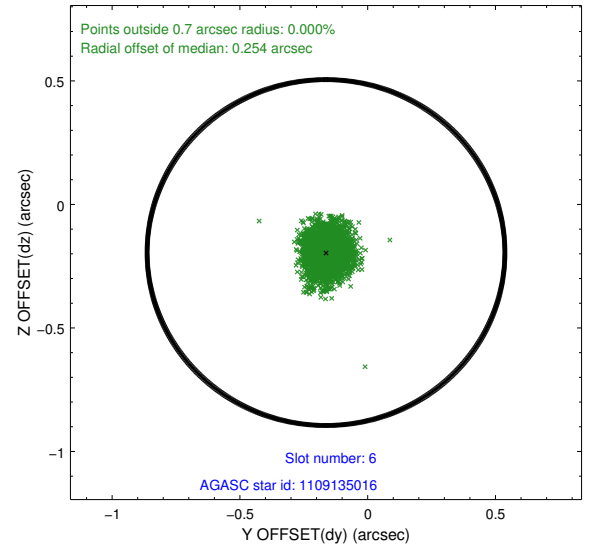
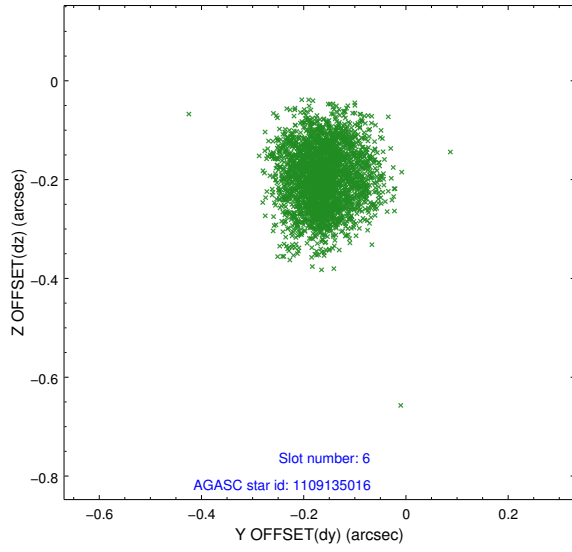
2.4.2 Slot 4



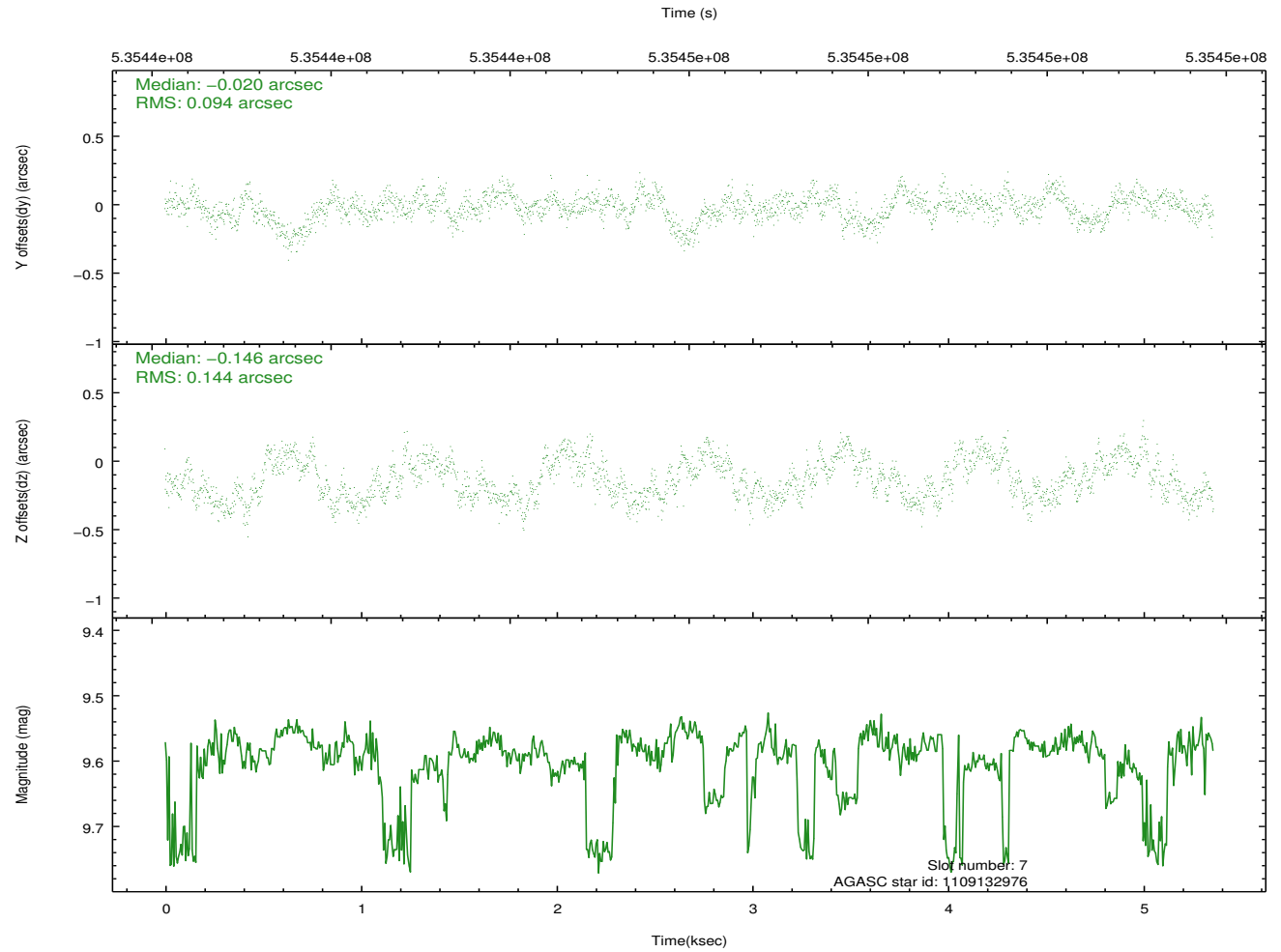
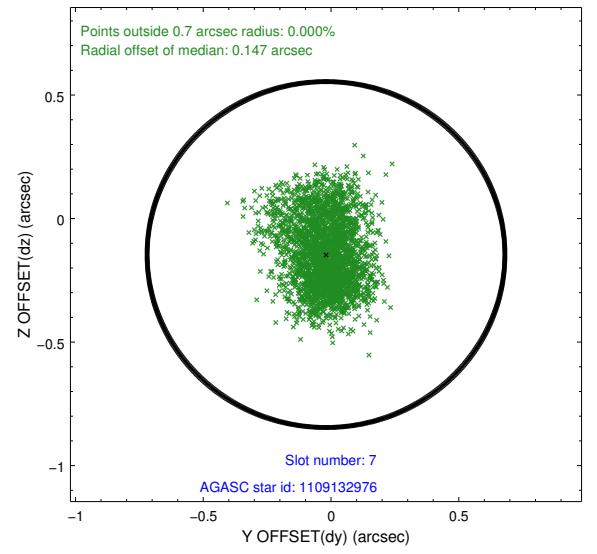
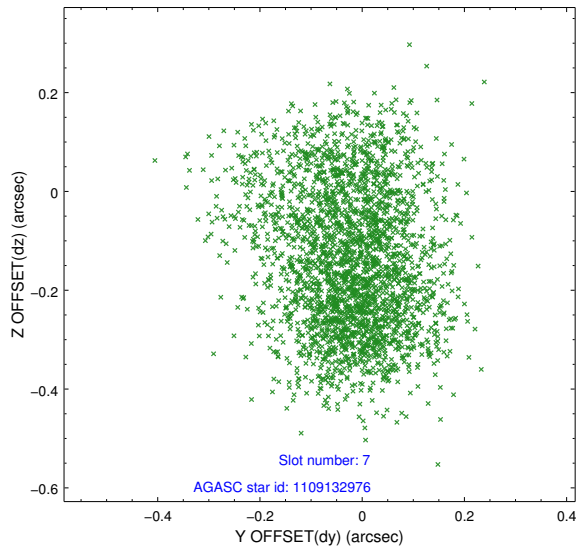
2.4.3 Slot 5



2.4.4 Slot 6

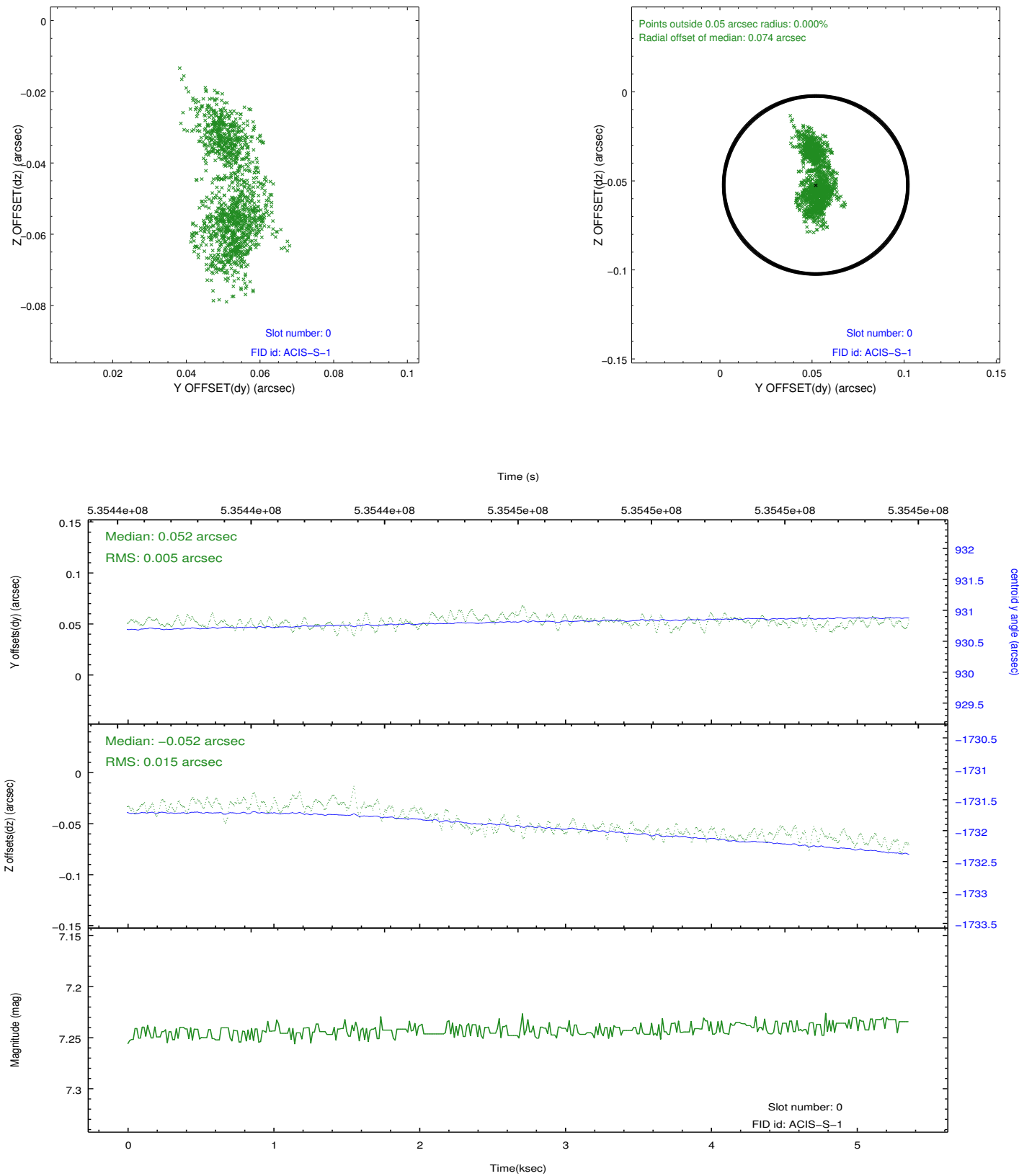


2.4.5 Slot 7

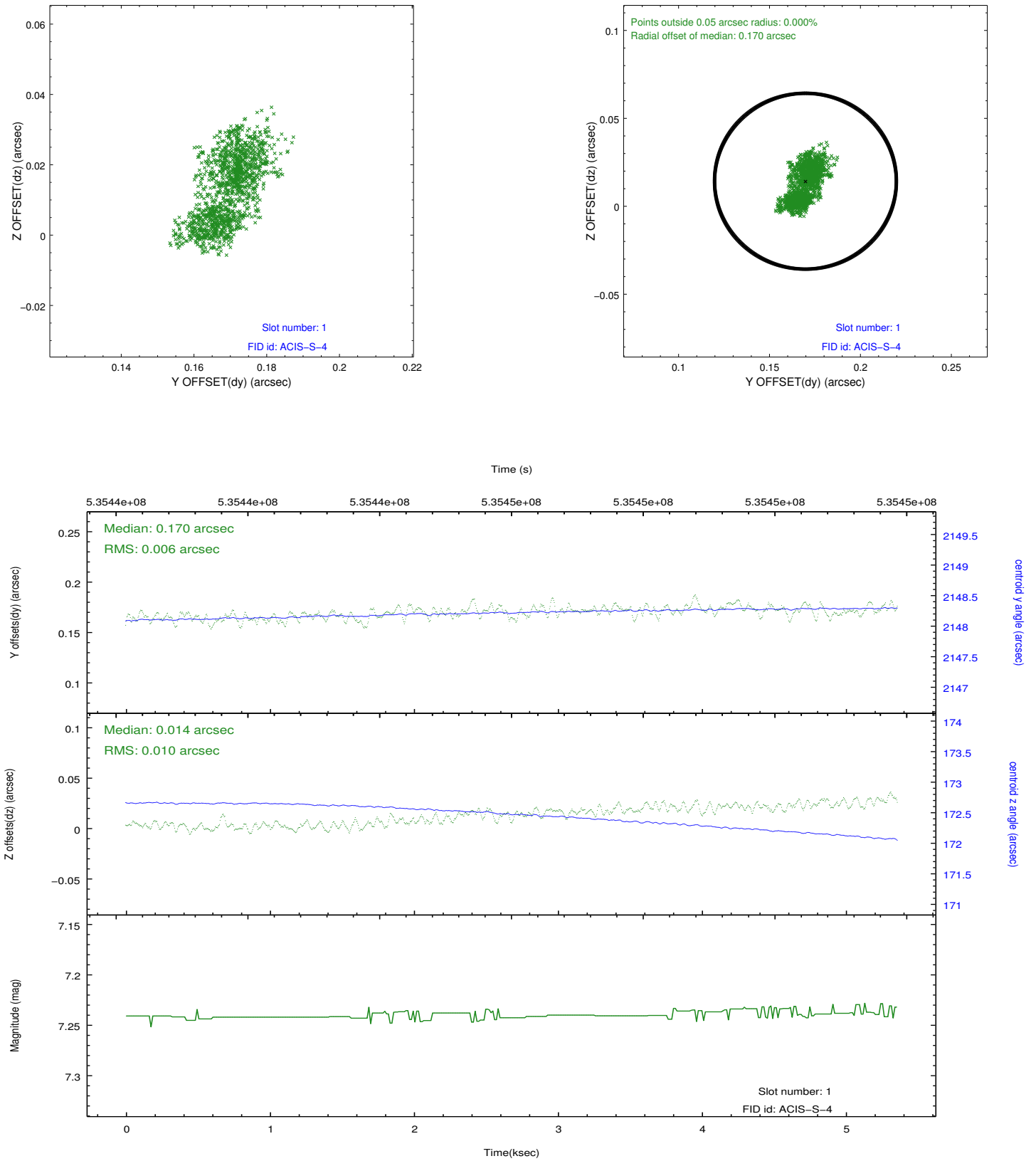


2.5 FID Slots

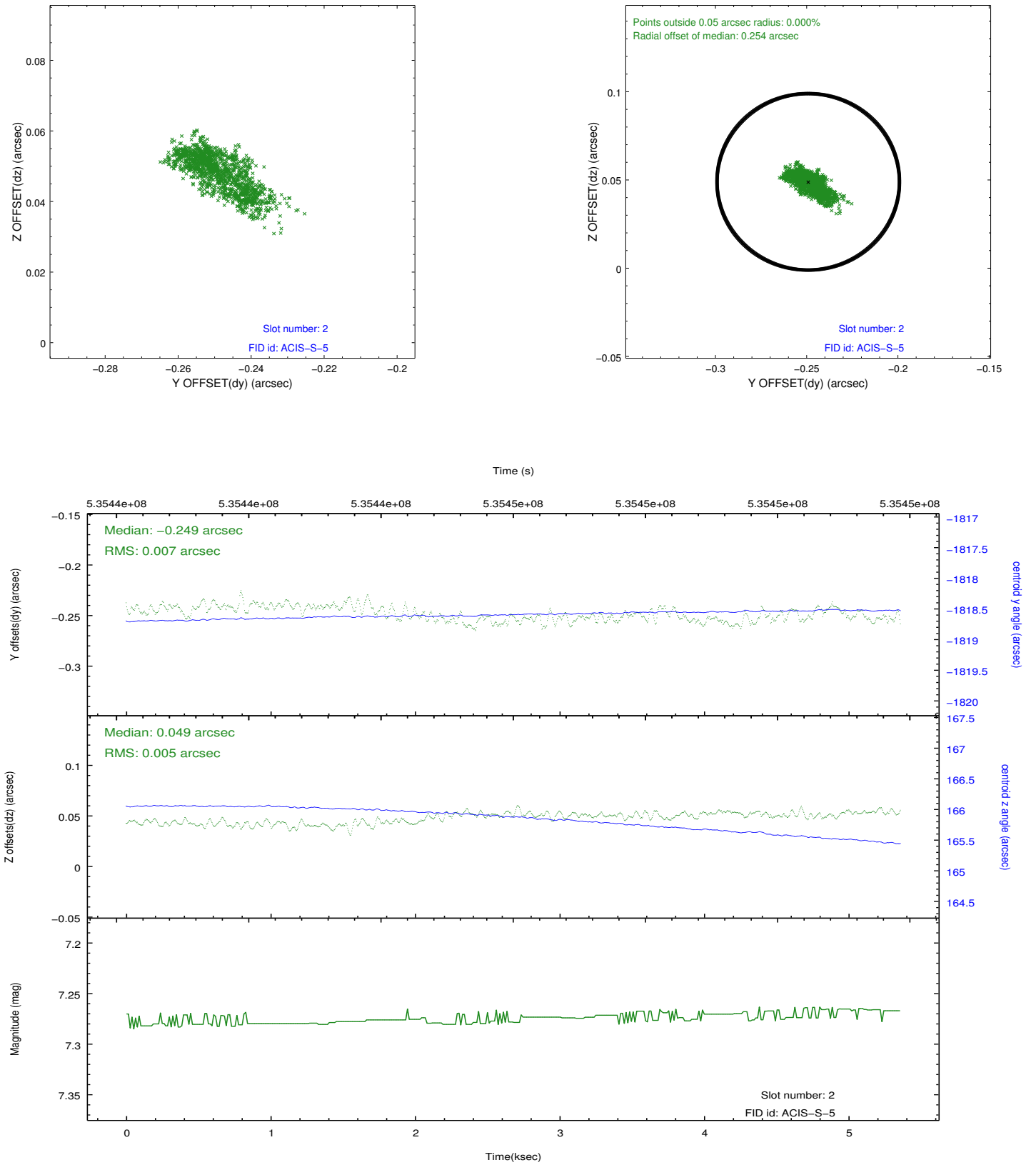
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2014.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.2607000404596

A.2 Comments