

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17074 - L2 Version 1
Chandra X-Ray Center

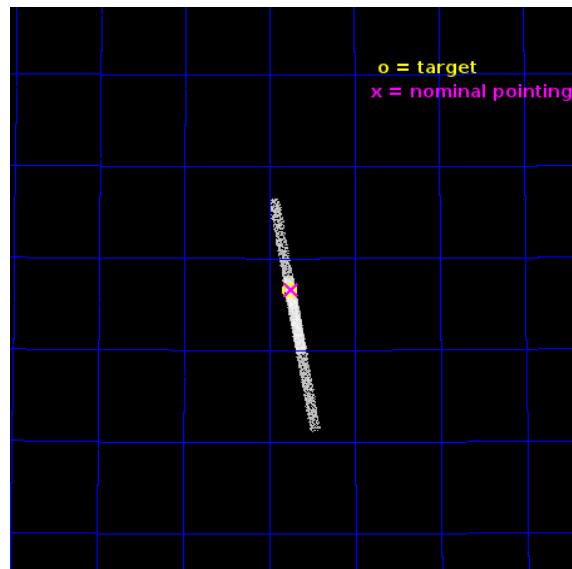
L2 Processing Date : Dec 7 2015

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1 Front

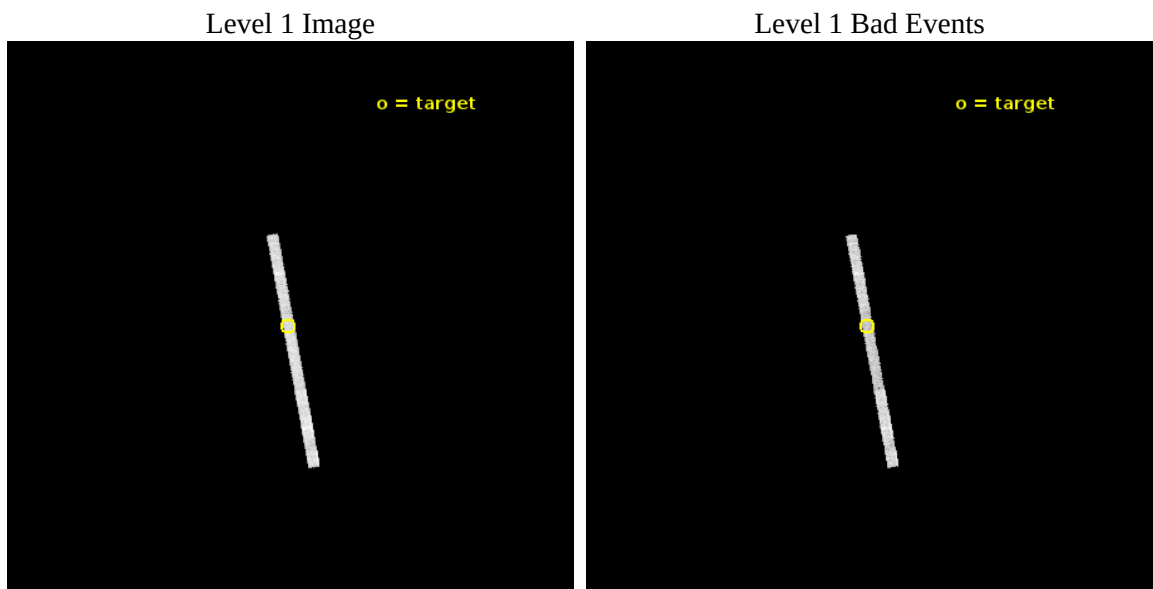
seq_num	703078	Sequence number
obs_id	17074	Observation id
title	MERGER-TRIGGERED NUCLEAR ACTIVITY AT SUB-KILOPARSEC SCALES	Proposa
observer	Dr. Giuseppina Fabbiano	Principal investigator
object	Mrk 104	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.189583	Observer's specified target RA [deg]
dec_targ	53.442806	Observer's specified target Dec [deg]
ra_nom	139.1855988452	Nominal RA [deg]
dec_nom	53.443151277105	Nominal Dec [deg]
roll_nom	80.159854752021	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10103.400401592	Sum of GTIs [s]
livetime	9456.5709487011	Livetime [s]
ontime6	10103.387447596	Sum of GTIs [s]
ontime7	10103.400401592	Sum of GTIs [s]
ontime8	10103.346407533	Sum of GTIs [s]
l2events	6225	Number of level 2 events



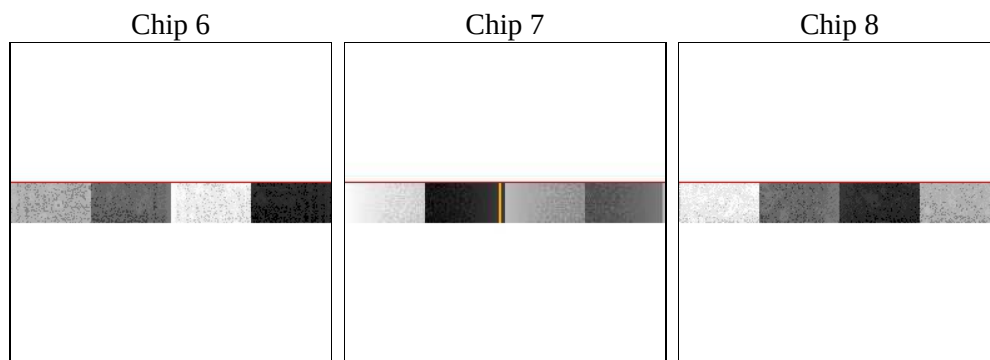
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	10103.400401592	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime6	10103.387447596	Sum of GTIs [s]
date	2015-12-07T12:00:44	Date and time of file creation	ontime7	10103.400401592	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	10103.346407533	Sum of GTIs [s]
			l1events	32864	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	9844	10024	12996
rejected events	8771	5337	10276
rejected %	89%	53%	79%

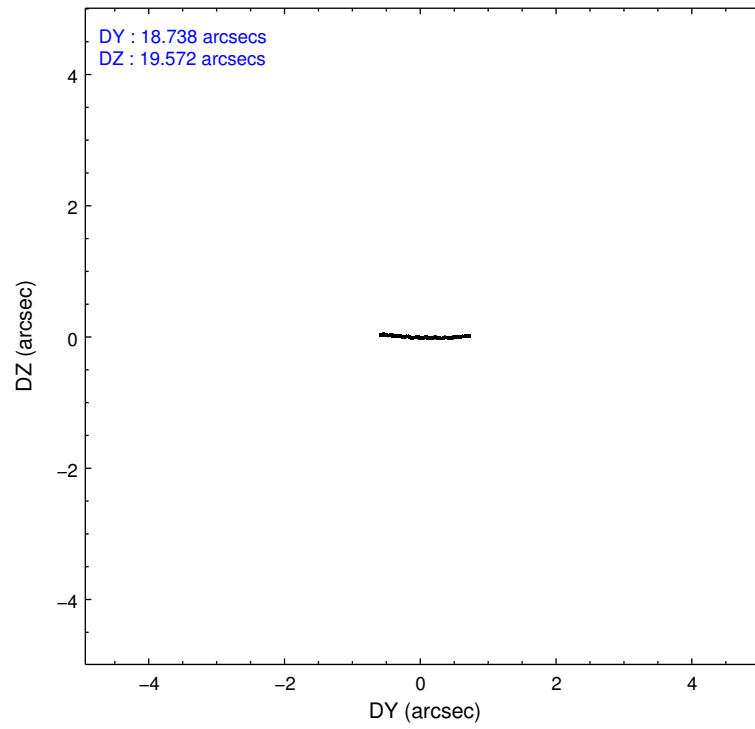
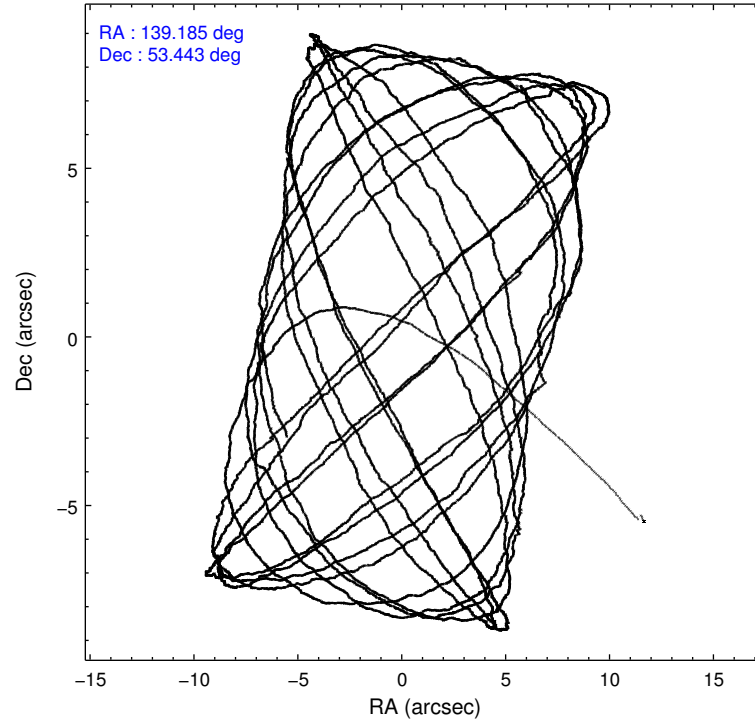
	ccd 6	ccd 7	ccd 8
grade 0 events	276	477	614
	2%	4%	4%
grade 1 events	4	8	3
	0%	0%	0%
grade 2 events	189	900	641
	1%	8%	4%
grade 3 events	190	553	280
	1%	5%	2%
grade 4 events	195	506	293
	1%	5%	2%
grade 5 events	365	1036	569
	3%	10%	4%
grade 6 events	223	2251	892
	2%	22%	6%
grade 7 events	8402	4293	9704
	85%	42%	74%

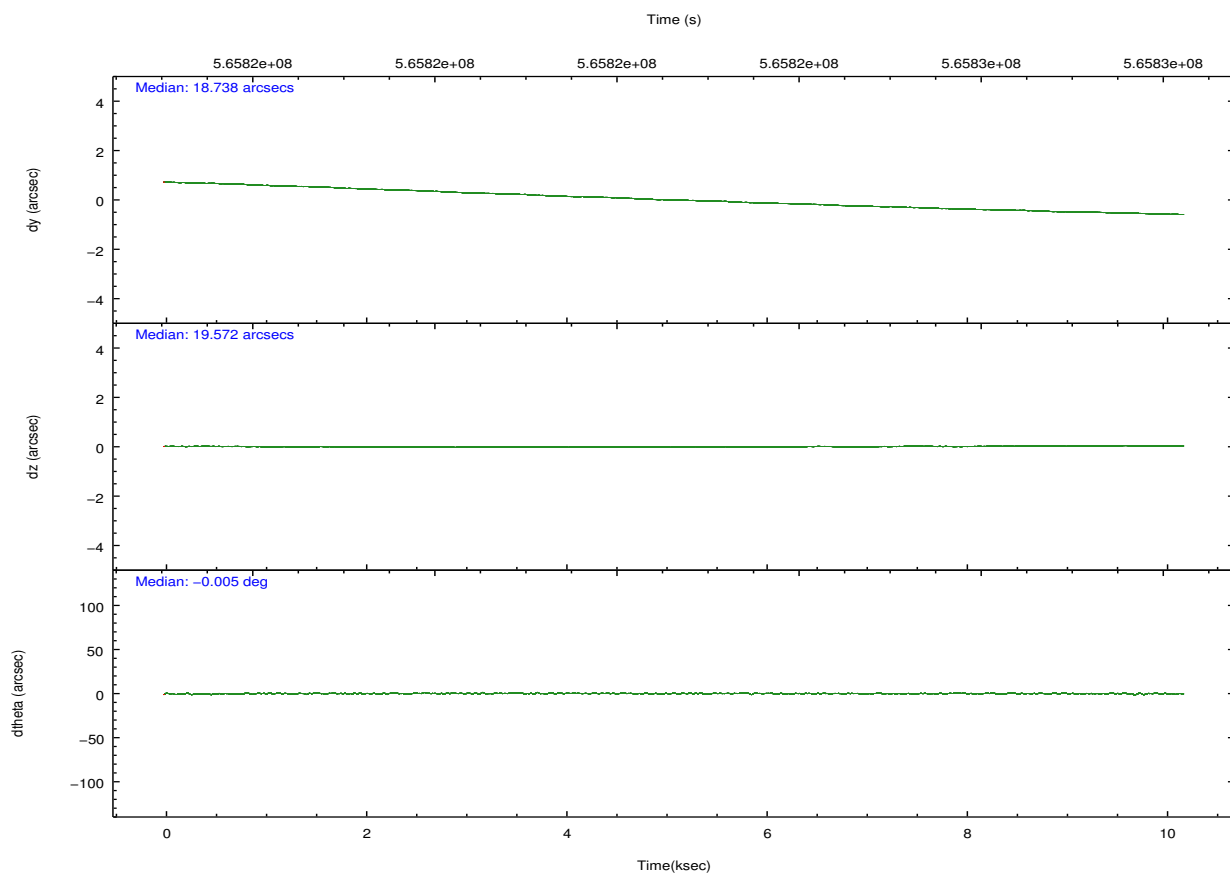
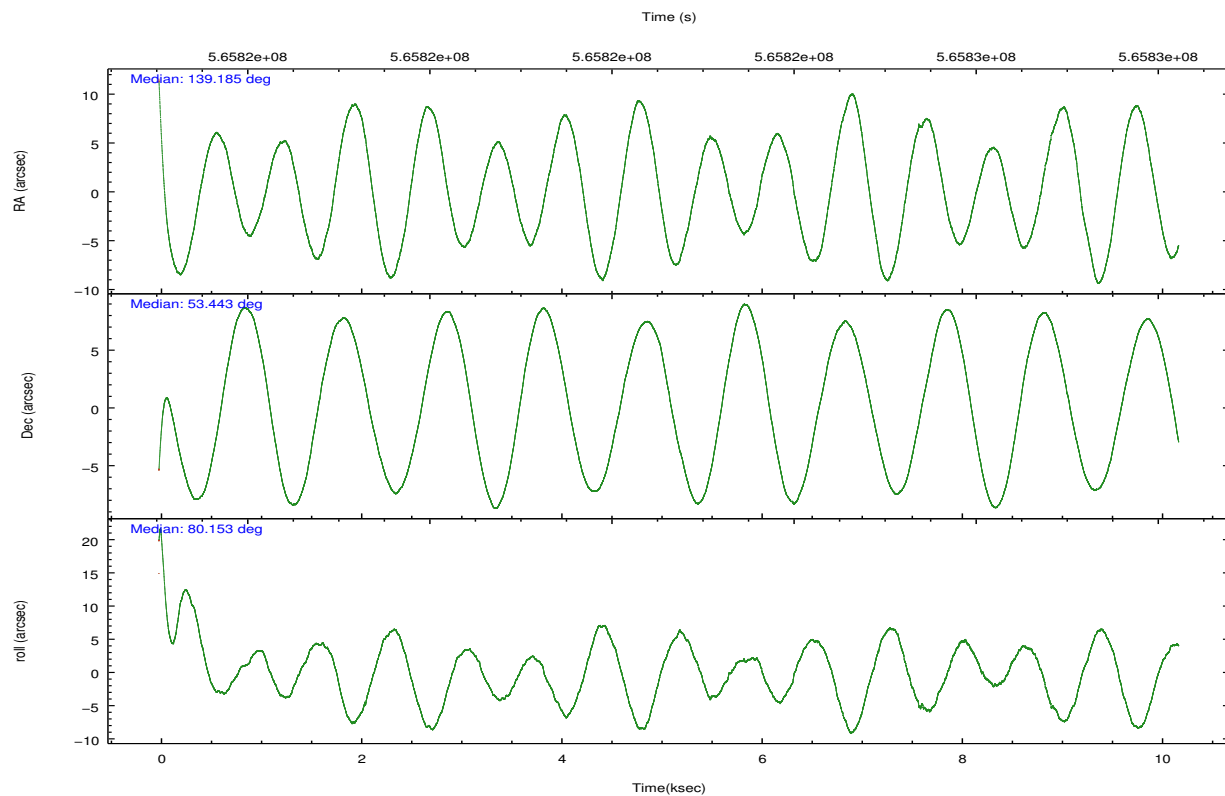
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	139.202077	139.1855988452029
[deg] Pointing Dec	53.417515	53.44315127710538
[deg] Pointing Roll	79.989964	80.15985475202127
[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)	565817697.184000	565816083.26636
Observation start date	2015-12-06T19:33:49	2015-12-06T19:08:03
[s] Observation end time (MET)	565827697.184000	565828425.8045599
Observation end date	2015-12-06T22:20:29	2015-12-06T22:33:45
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.6

2.3 Aspect



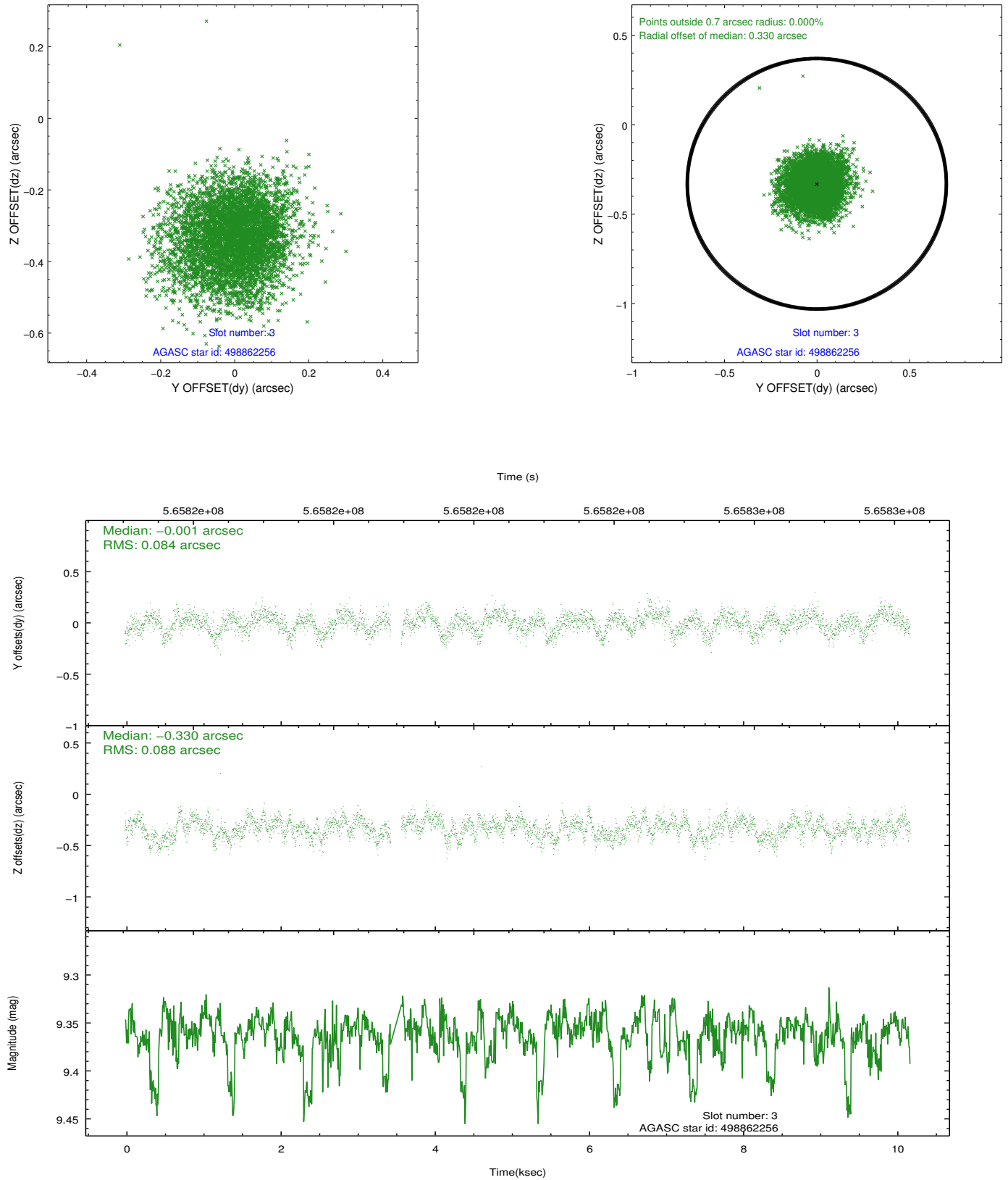


Slot Statistics

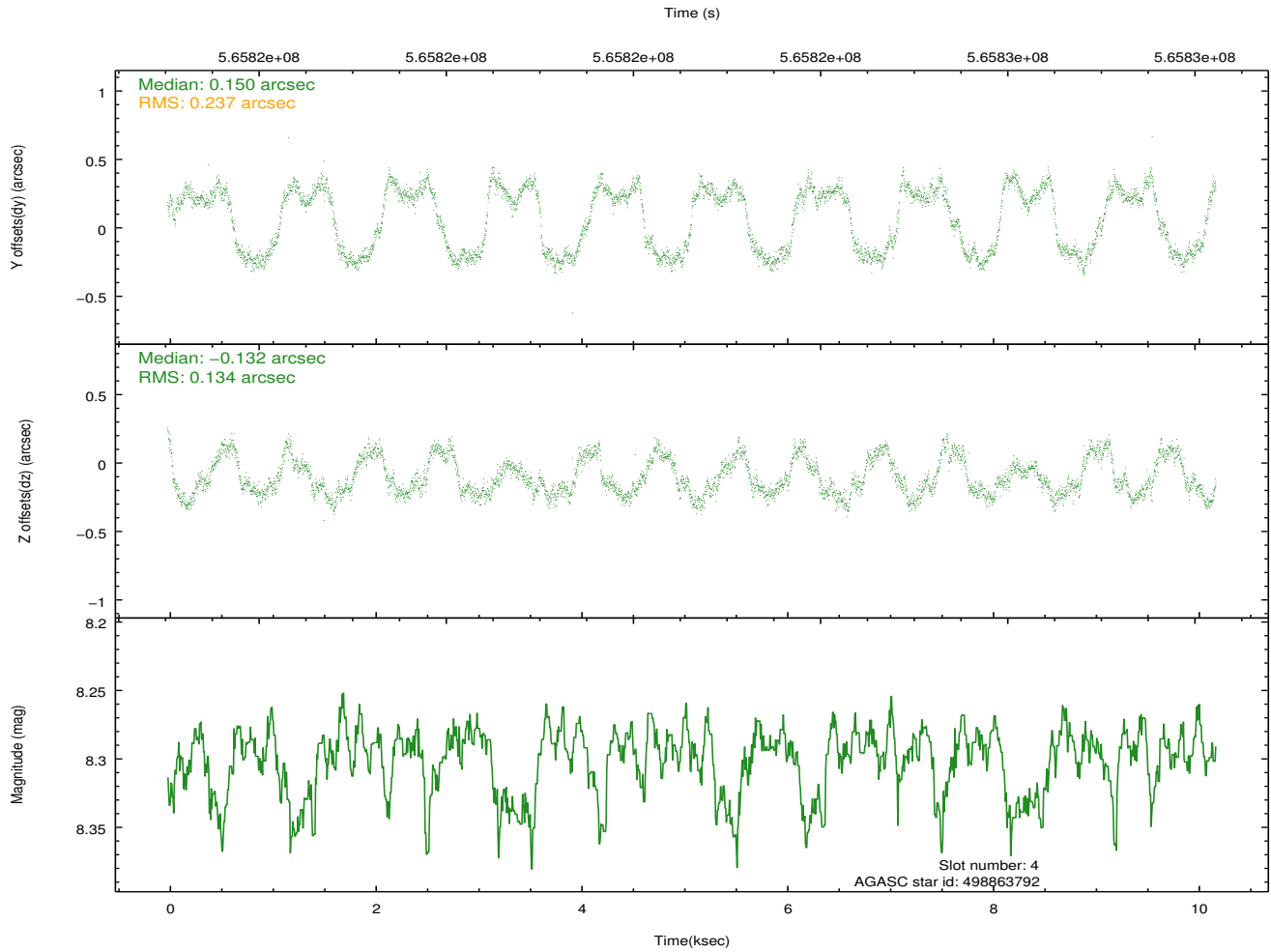
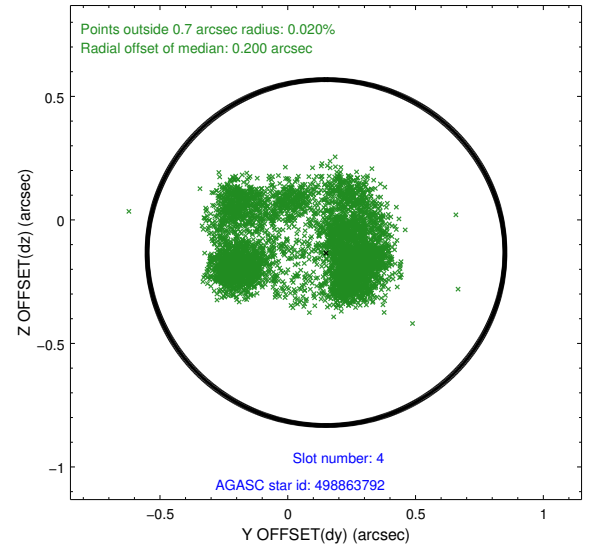
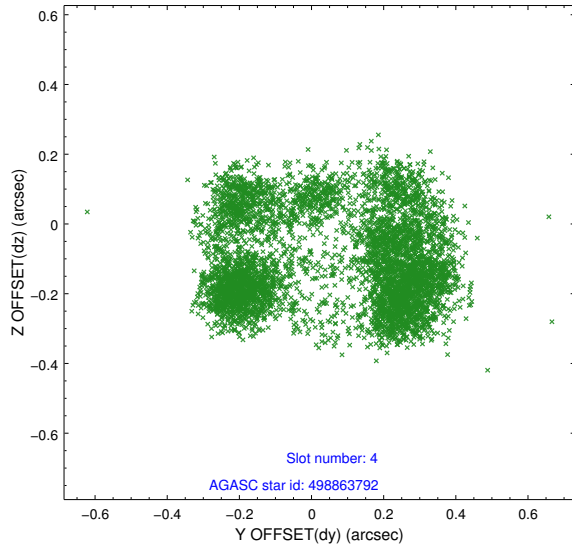
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	2485	-0.214	-0.149	0.012	0.018	0.000000	0.000000	-772.03	-1741.23
1	FID		ACIS-S-4	7.24	2485	0.498	0.143	0.010	0.017	0.000000	0.000000	2141.70	167.03
2	FID		ACIS-S-5	7.26	2485	-0.315	0.015	0.007	0.012	0.000000	0.000000	-1824.33	161.13
3	GUIDE	used	498862256	9.36	4900	-0.001	-0.330	0.130	0.208	138.592031	54.068839	2089.41	1677.98
4	GUIDE	used	498863792	8.30	4968	0.150	-0.132	0.314	0.428	138.773096	53.489467	96.66	950.85
5	GUIDE	used	498866152	8.66	4967	0.602	0.451	0.095	0.156	139.331339	52.912153	-1742.63	-592.05
6	GUIDE	used	498868256	9.19	4962	-0.912	-0.392	0.311	0.438	139.144952	53.400962	-80.95	109.64
7	GUIDE	used	498864792	8.35	4968	0.190	0.363	0.114	0.181	140.451292	53.751645	1669.39	-2404.98

2.4 Star Slots

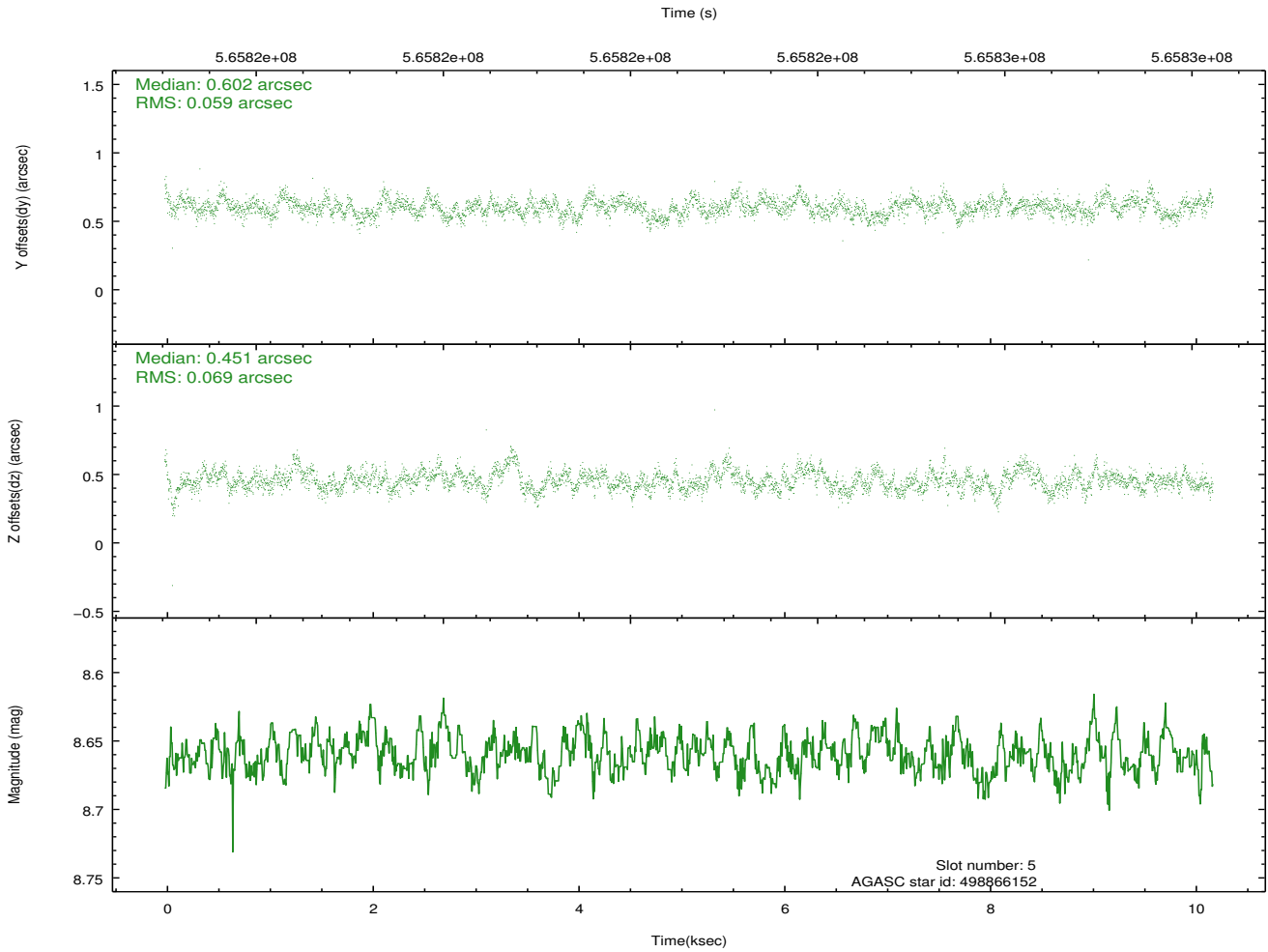
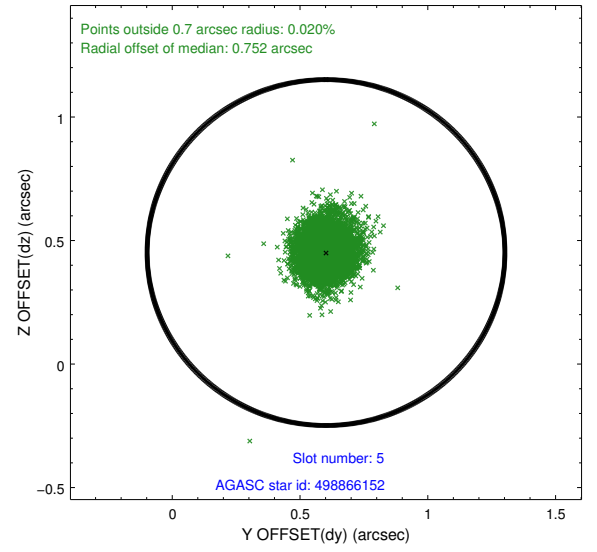
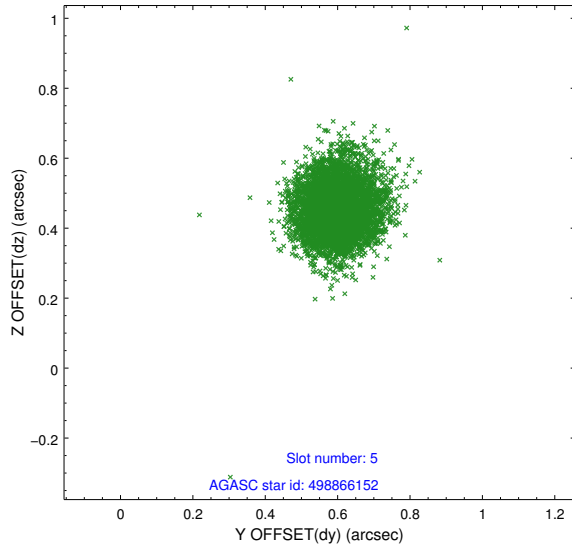
2.4.1 Slot 3



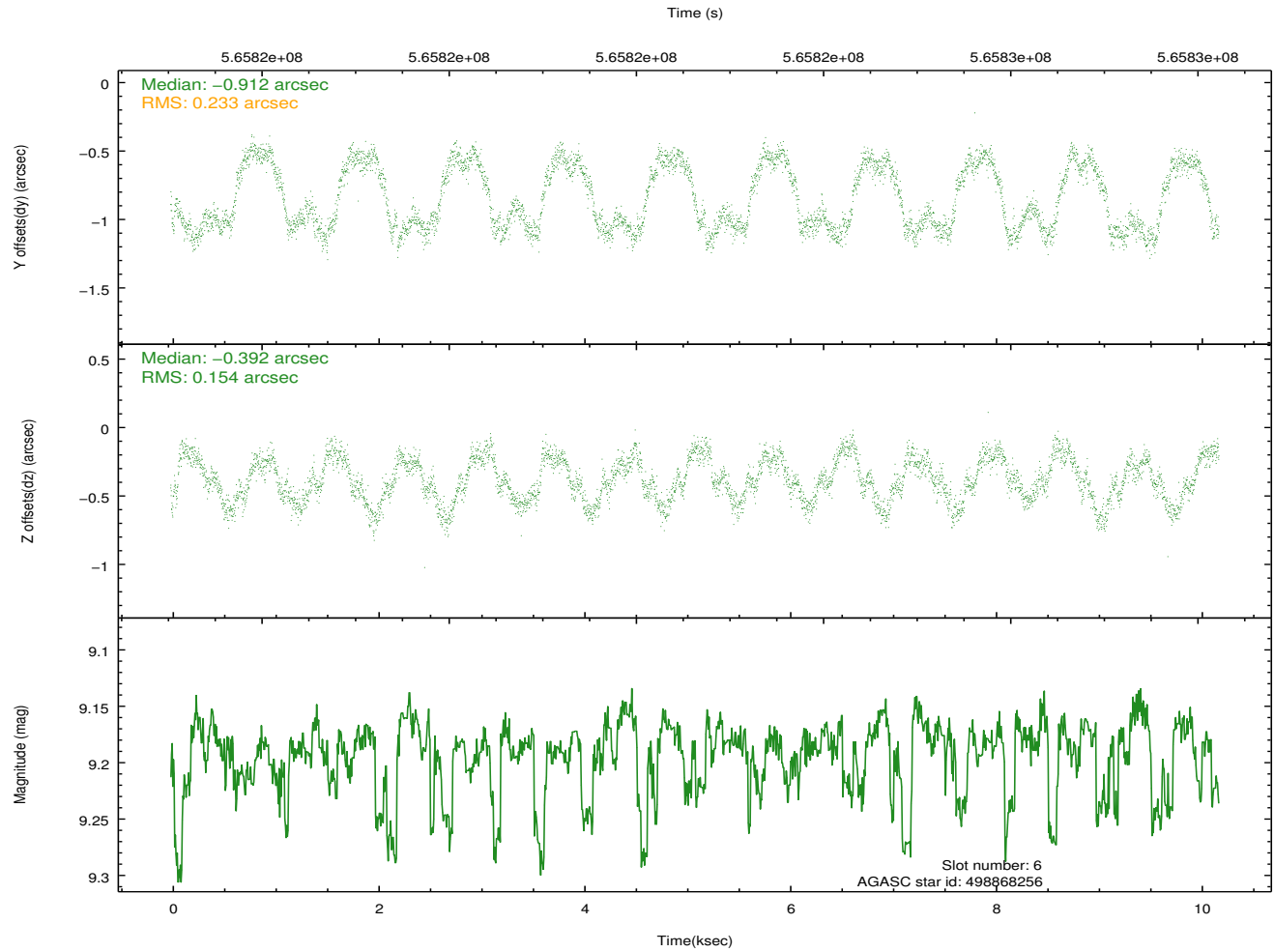
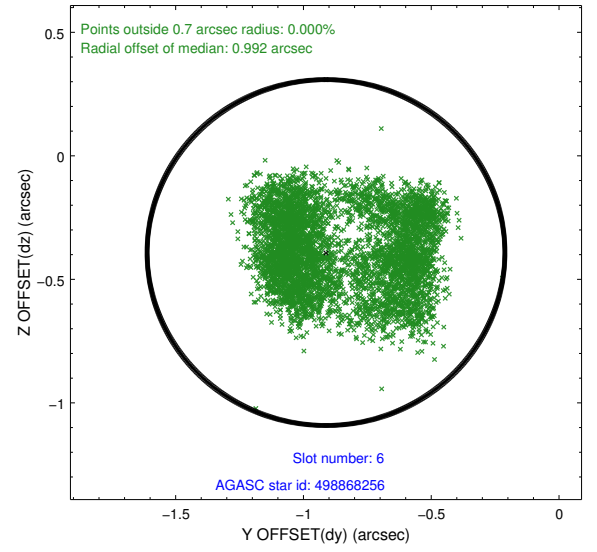
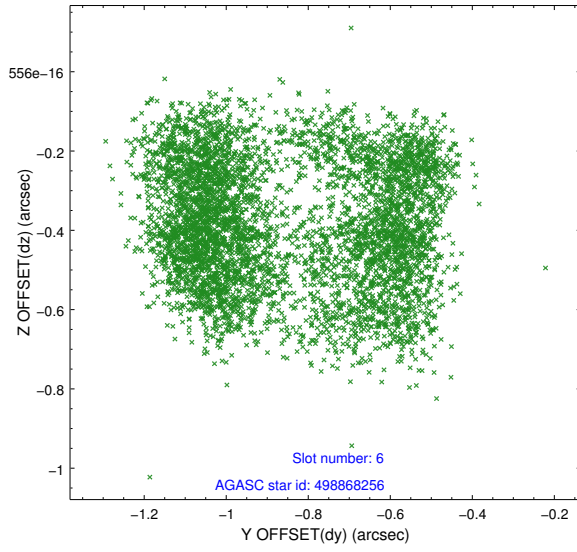
2.4.2 Slot 4



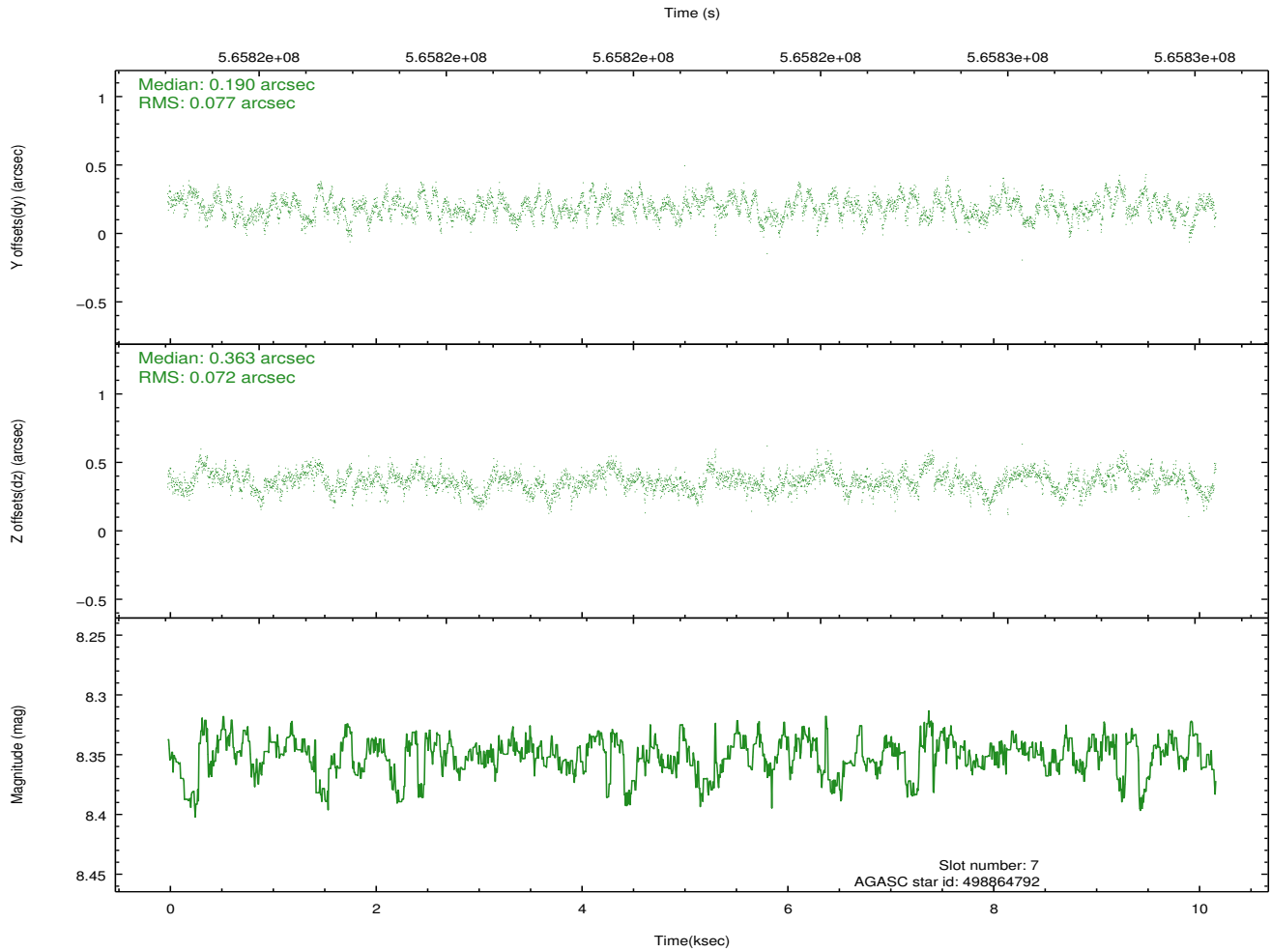
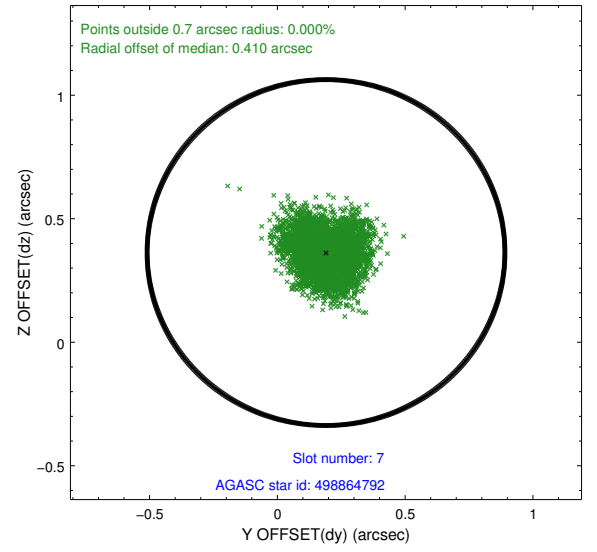
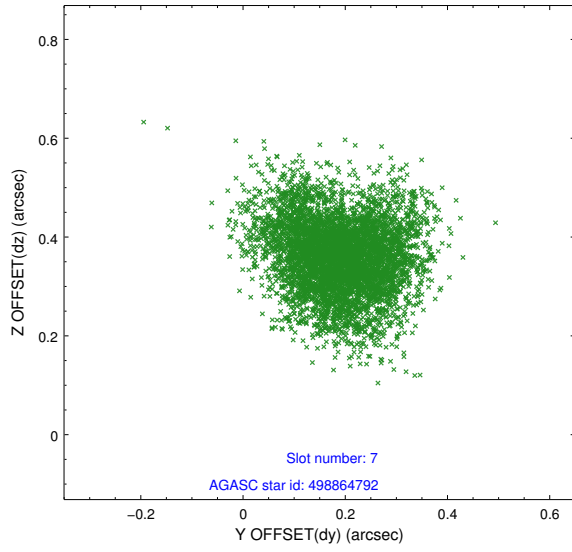
2.4.3 Slot 5



2.4.4 Slot 6

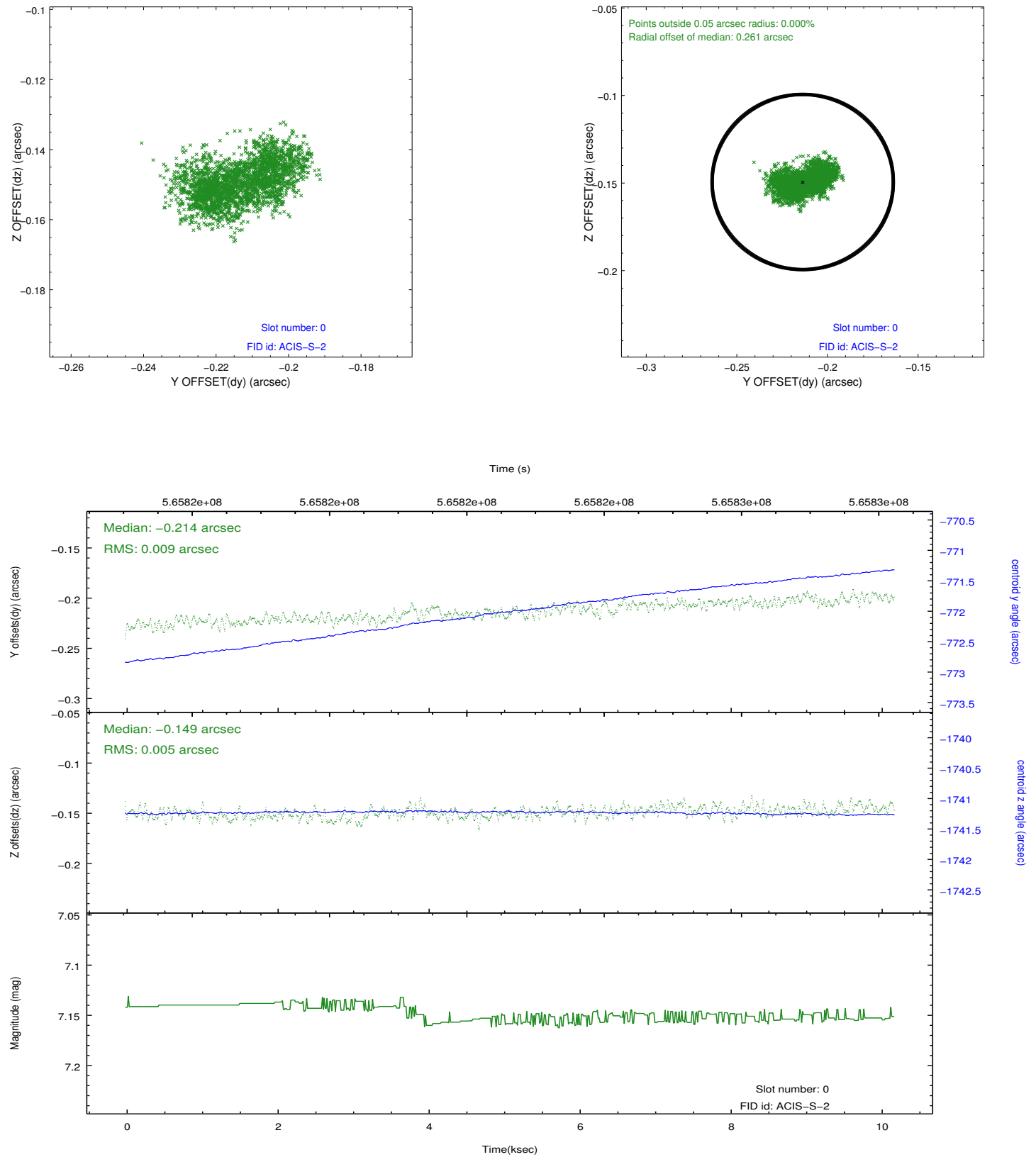


2.4.5 Slot 7

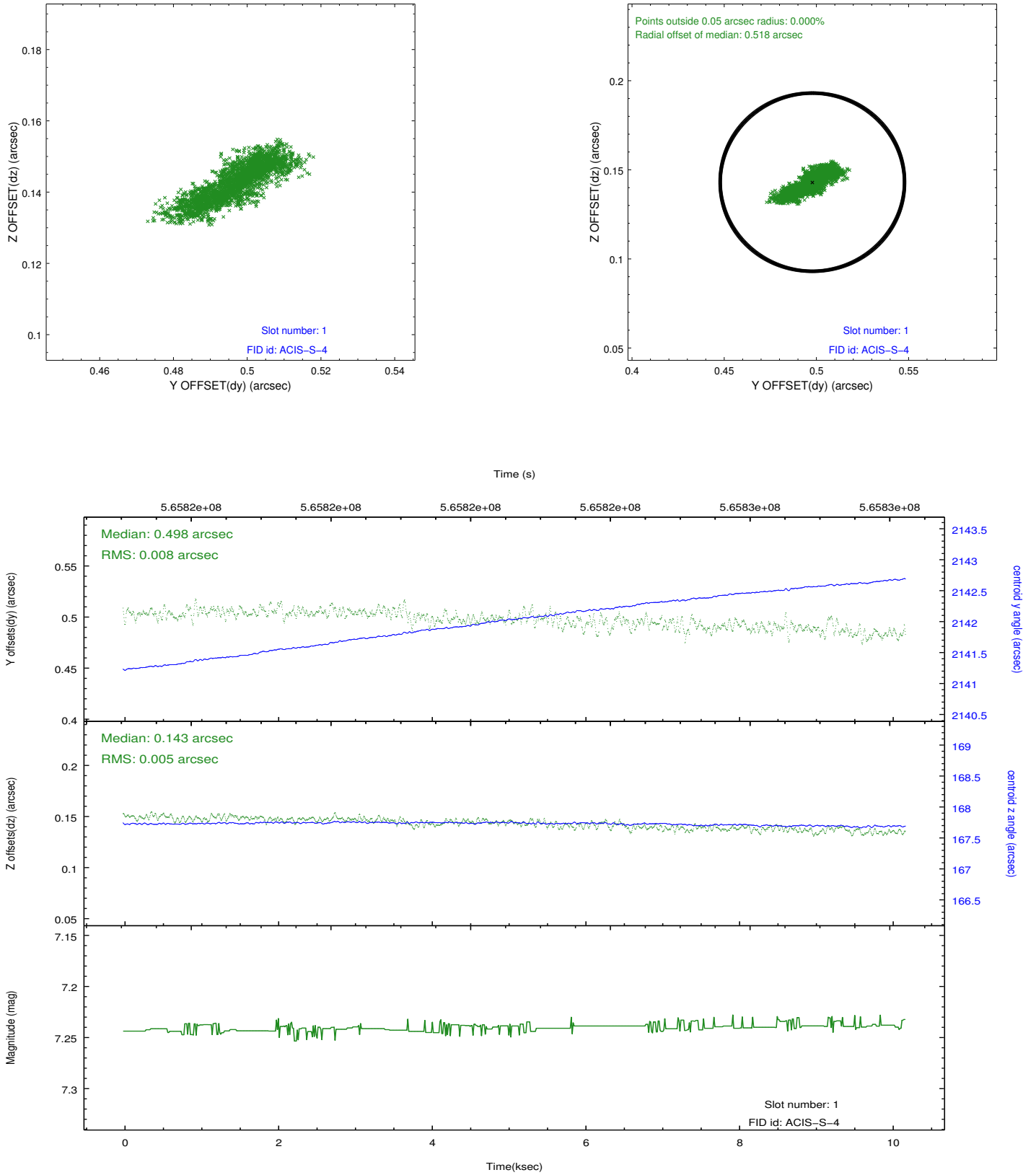


2.5 FID Slots

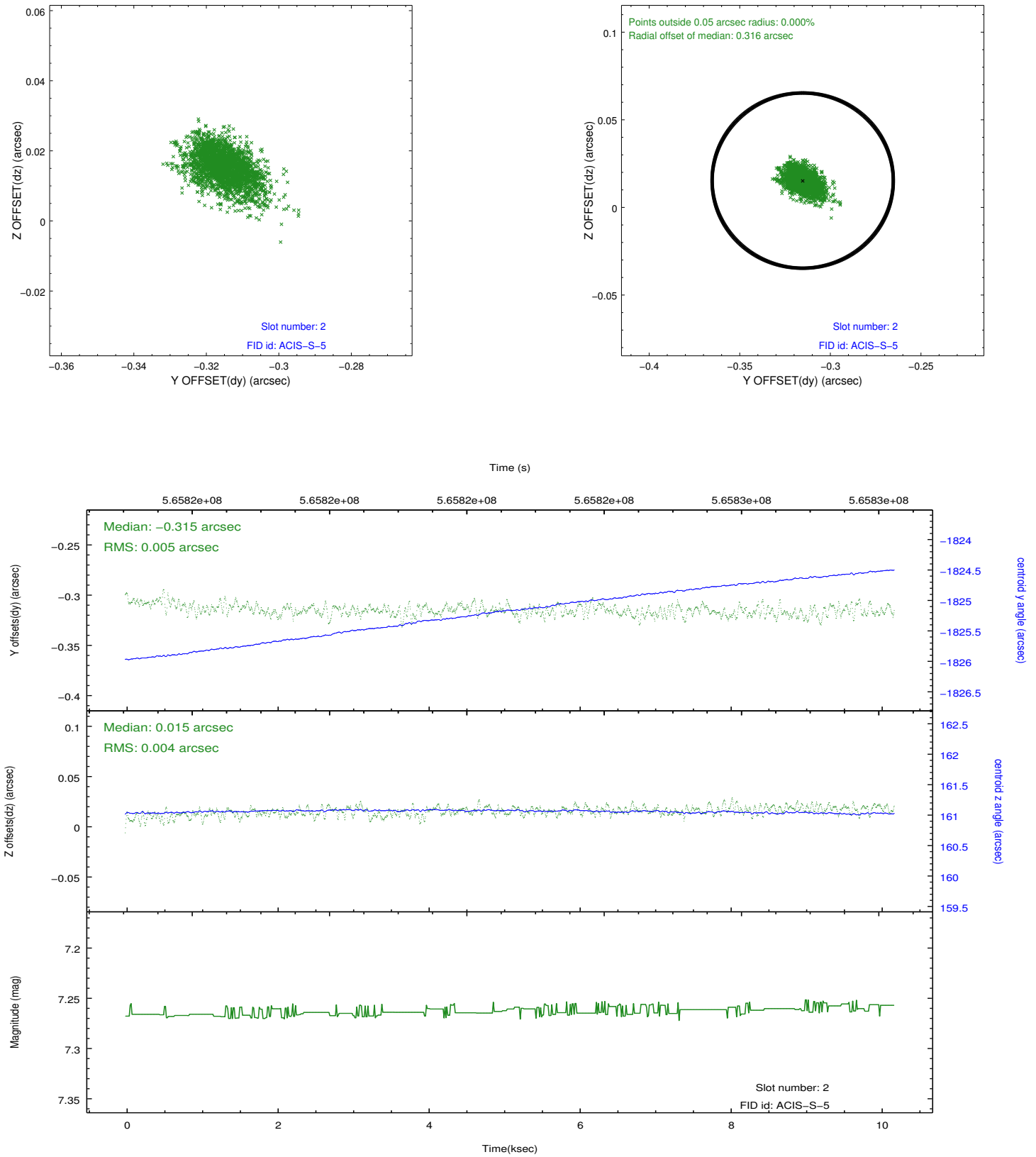
2.5.1 Slot 0



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)	2015.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.103400401592

A.2 Comments