

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22048 - L2 Version 1
Chandra X-Ray Center

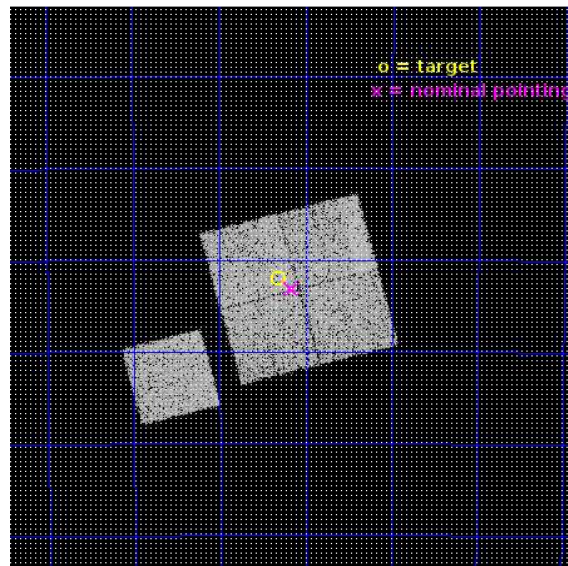
L2 Processing Date : Jan 11 2019

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

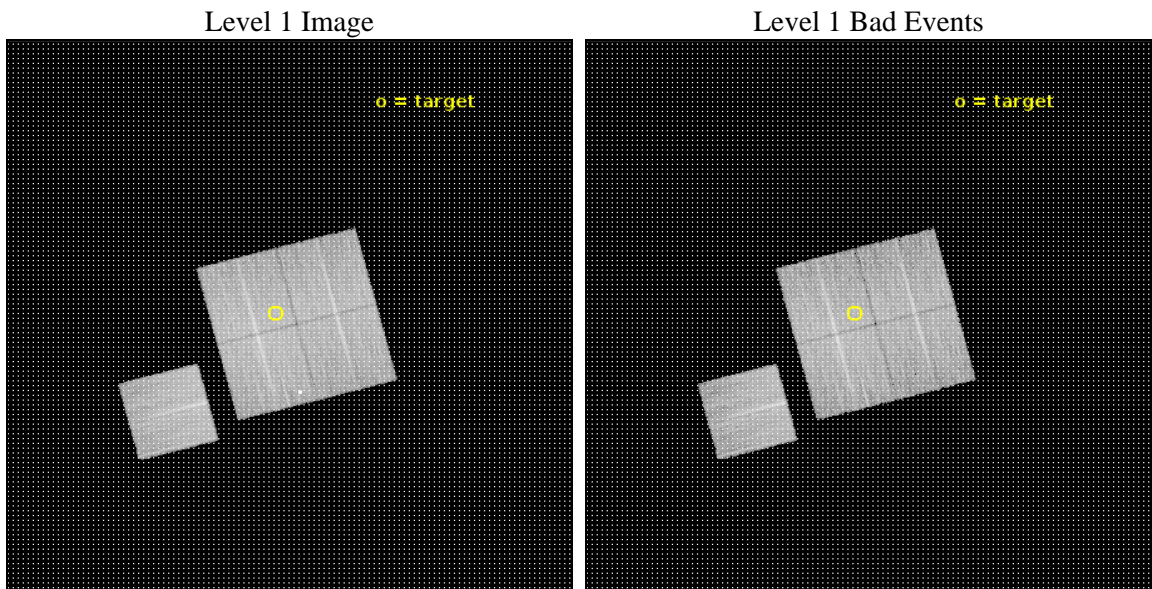
seq_num	801837	Sequence number
obs_id	22048	Observation id
title	Studying the Progenitors of Our Favorite Clusters at $z > 1$	Proposa
observer	Michael McDonald	Principal investigator
object	SPT-CLJ2259-5301	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.83	Observer's specified target RA [deg]
dec_targ	-53.033	Observer's specified target Dec [deg]
ra_nom	344.79149271813	Nominal RA [deg]
dec_nom	-53.052390642237	Nominal Dec [deg]
roll_nom	255.17790453522	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14141.691007733	Sum of GTIs [s]
livetime	13956.919403756	Livetime [s]
ontime0	14147.84984827	Sum of GTIs [s]
ontime1	14147.890888214	Sum of GTIs [s]
ontime2	14144.79093802	Sum of GTIs [s]
ontime3	14141.691007733	Sum of GTIs [s]
ontime6	14144.667837977	Sum of GTIs [s]
l2events	50507	Number of level 2 events



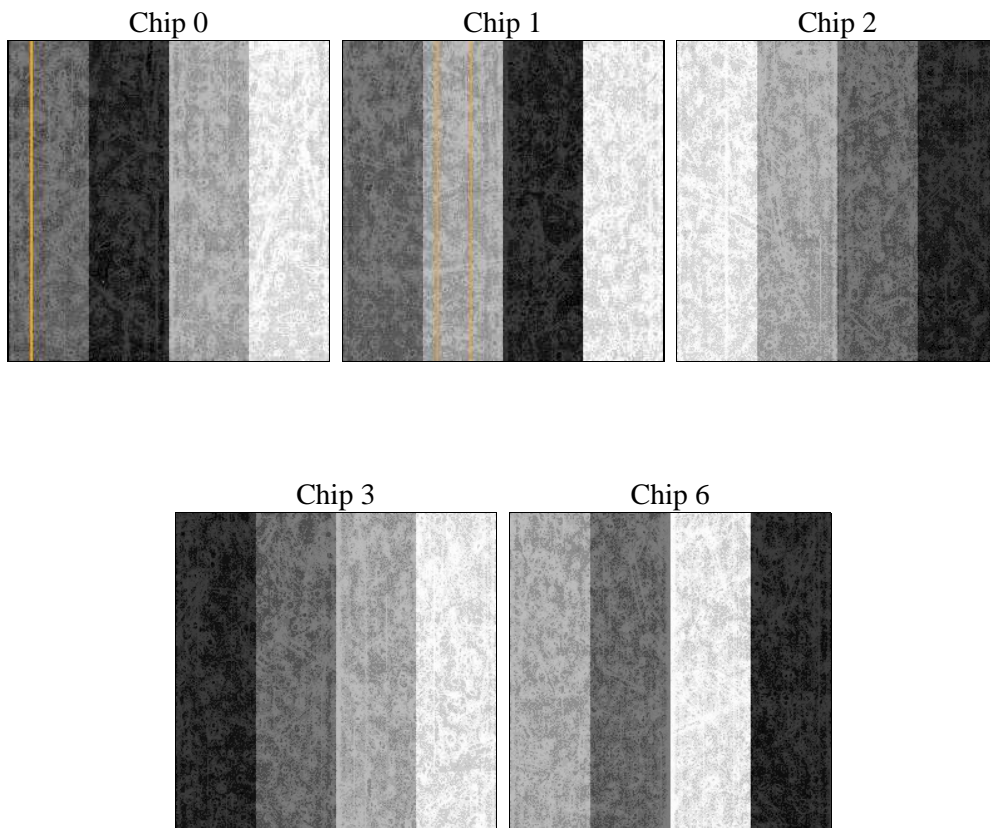
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14078.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	14141.691007733	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	14147.84984827	Sum of GTIs [s]
date	2019-01-11T16:59:15	Date and time of file creation	ontime1	14147.890888214	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	14144.79093802	Sum of GTIs [s]
			ontime3	14141.691007733	Sum of GTIs [s]
			ontime6	14144.667837977	Sum of GTIs [s]
			l1events	516657	Number of level 1 events

2.1.4 Events

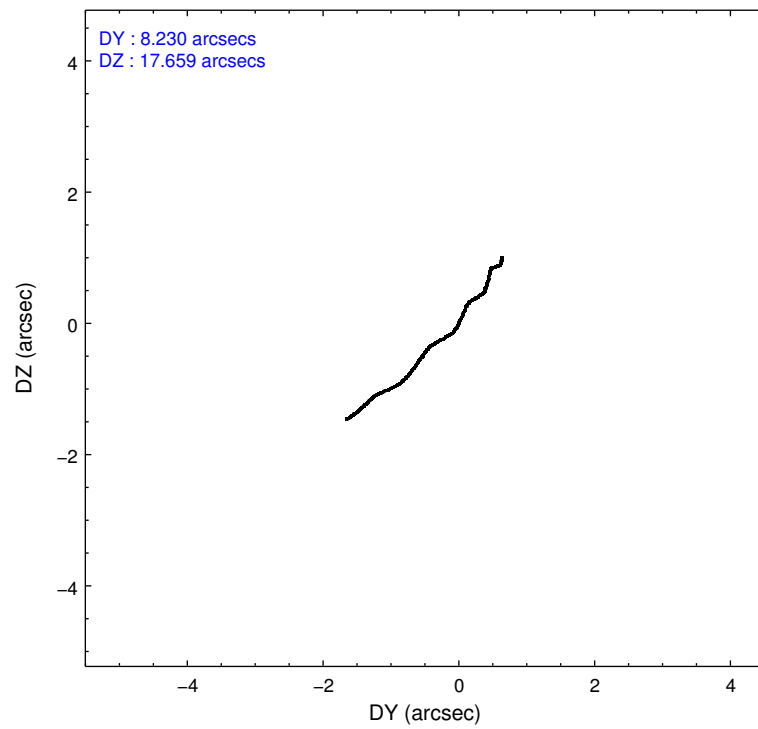
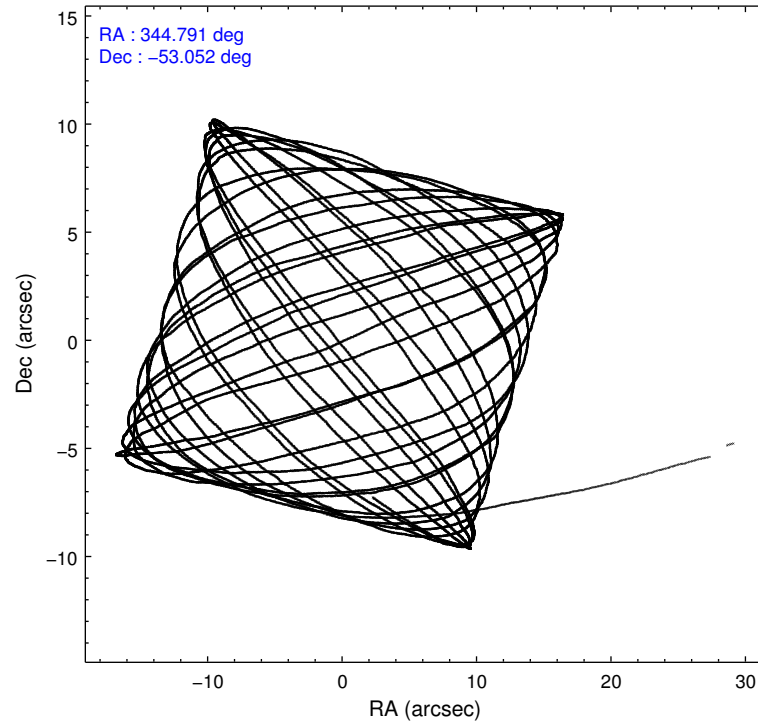
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	95574	97933	109625	105676	107849
rejected events	83756	85004	95652	94075	95872
rejected %	87%	86%	87%	89%	88%

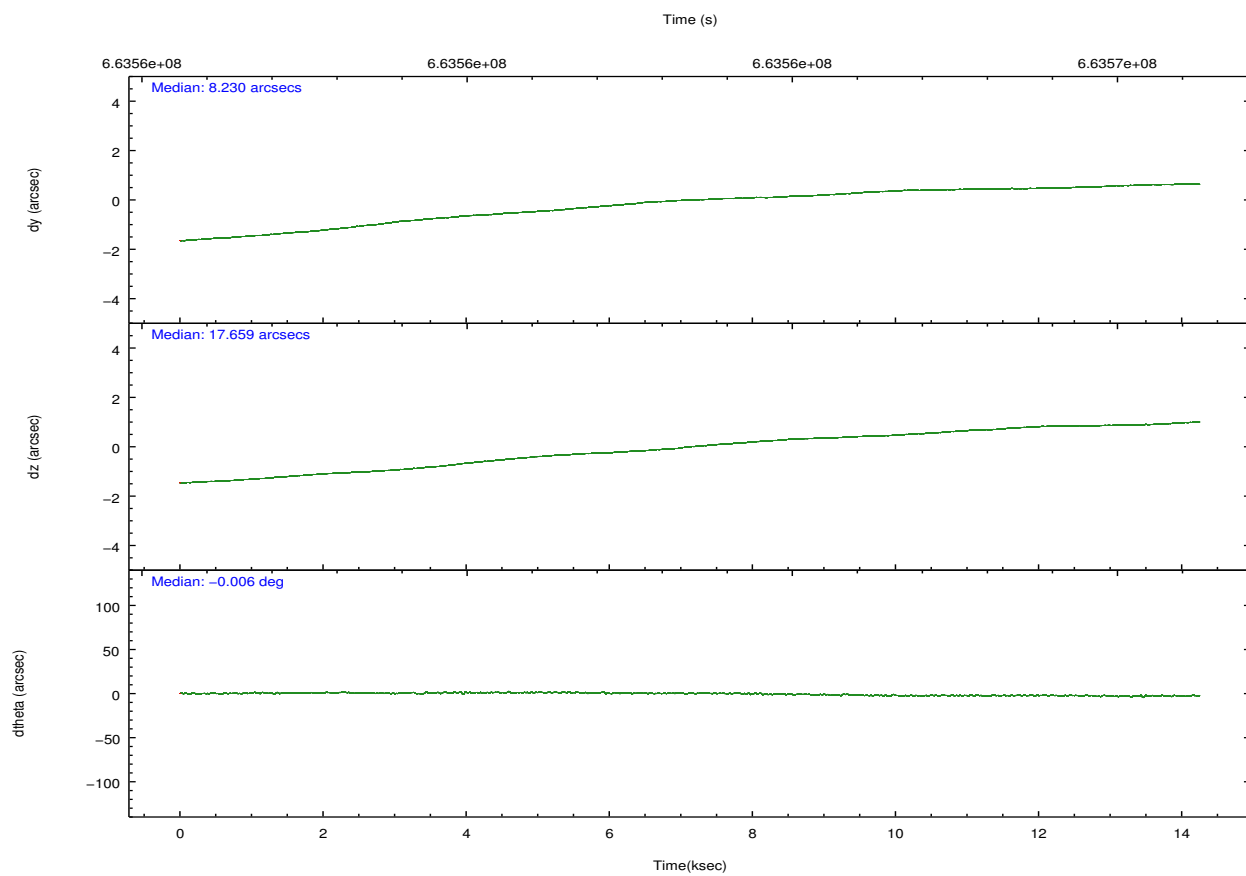
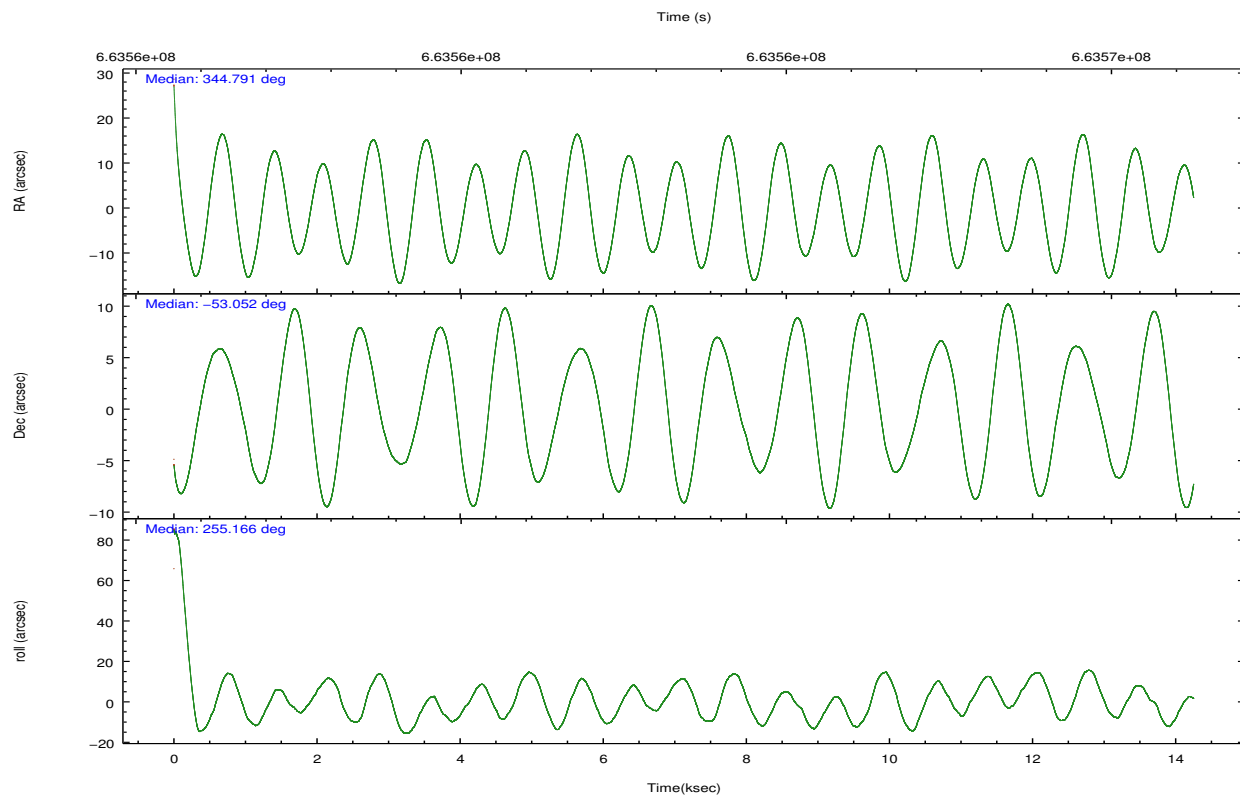
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3995	4019	6425	4294	3998
	4%	4%	5%	4%	3%
grade 1 events	51	46	84	71	50
	0%	0%	0%	0%	0%
grade 2 events	3045	3526	2892	2514	2867
	3%	3%	2%	2%	2%
grade 3 events	1226	1259	1119	1160	1233
	1%	1%	1%	1%	1%
grade 4 events	1123	1225	1235	1216	1129
	1%	1%	1%	1%	1%
grade 5 events	4497	4599	4249	5076	4825
	4%	4%	3%	4%	4%
grade 6 events	2435	2909	2307	2423	2761
	2%	2%	2%	2%	2%
grade 7 events	79202	80350	91314	88922	90986
	82%	82%	83%	84%	84%

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	344.779302	344.7914927181303	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.025736	-53.05239064223736	CCD I3 on	Y	Y
[deg] Pointing Roll	254.959491	255.177904535216	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	663556498.184000	663555476.98893	CCD S5 on	N	N
Observation start date	2019-01-11T01:13:49	2019-01-11T00:57:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	663570576.184000	663571365.5148799	On-chip summing requested	N	N
Observation end date	2019-01-11T05:08:27	2019-01-11T05:22:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



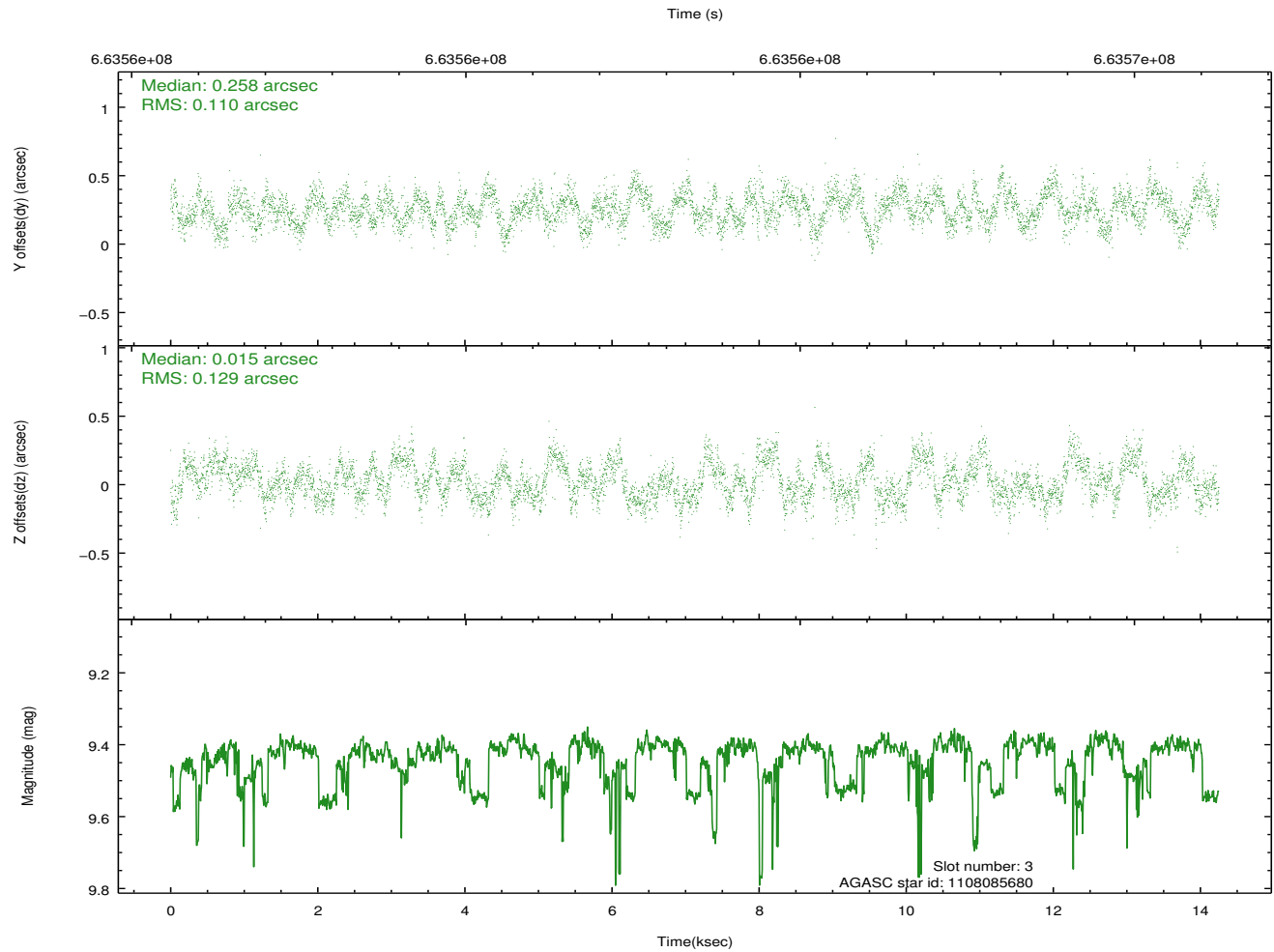
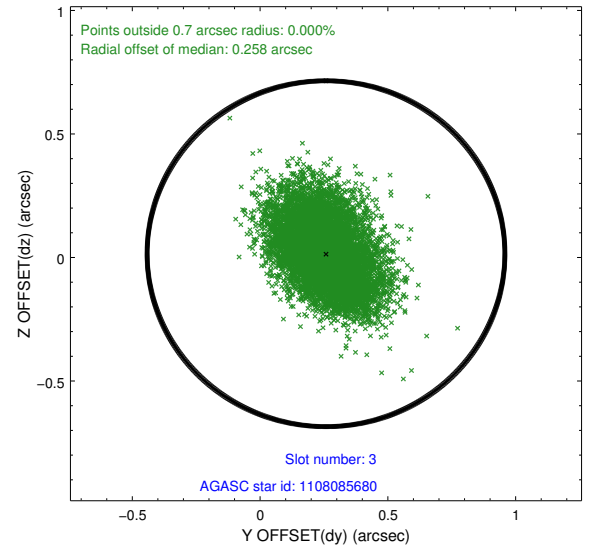
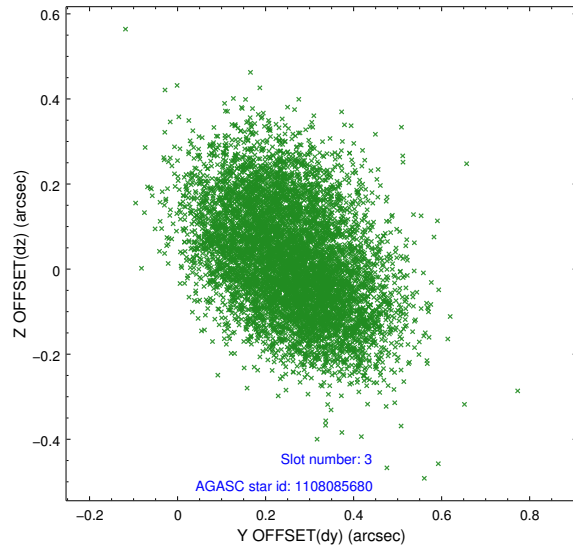


Slot Statistics

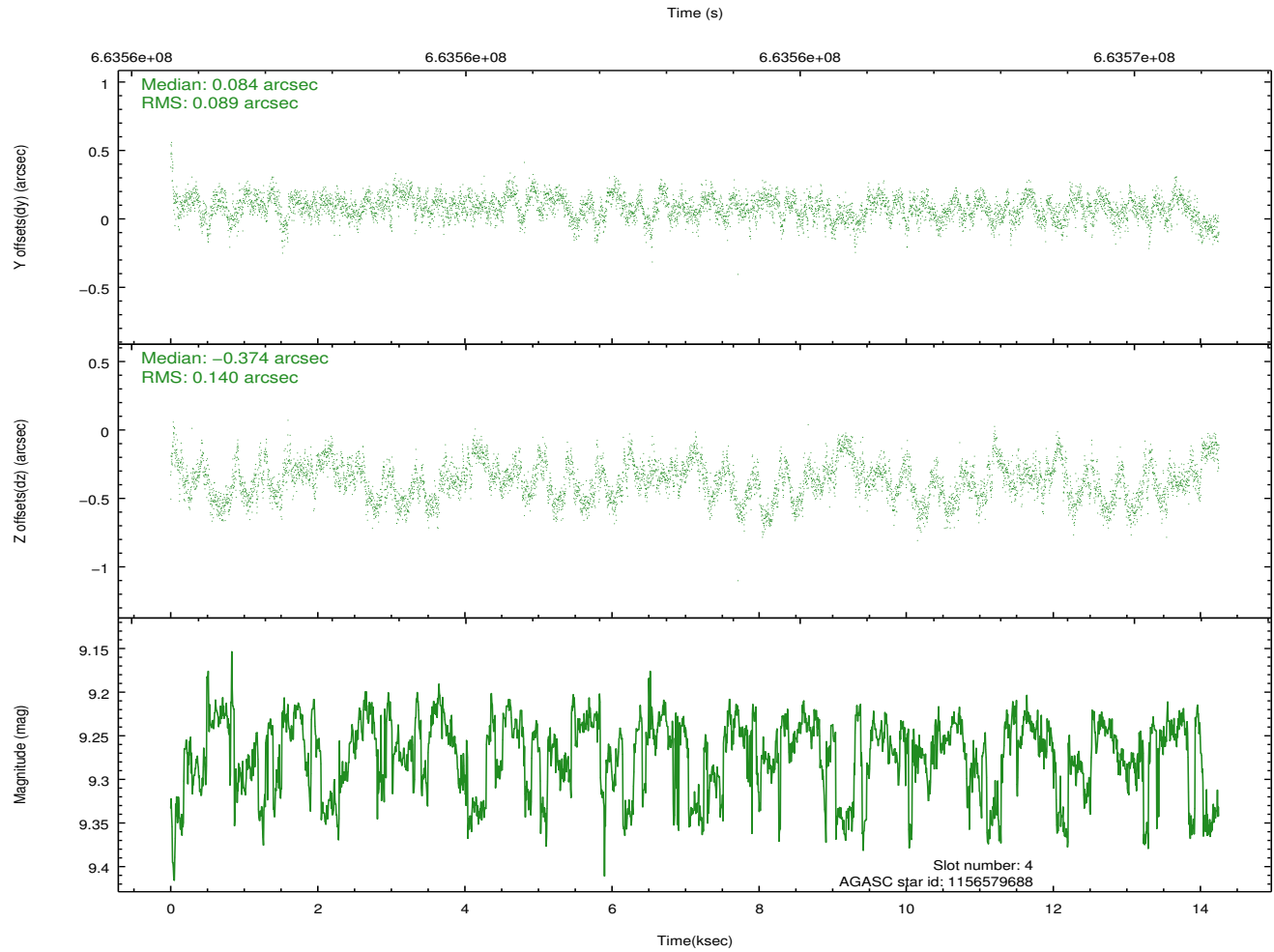
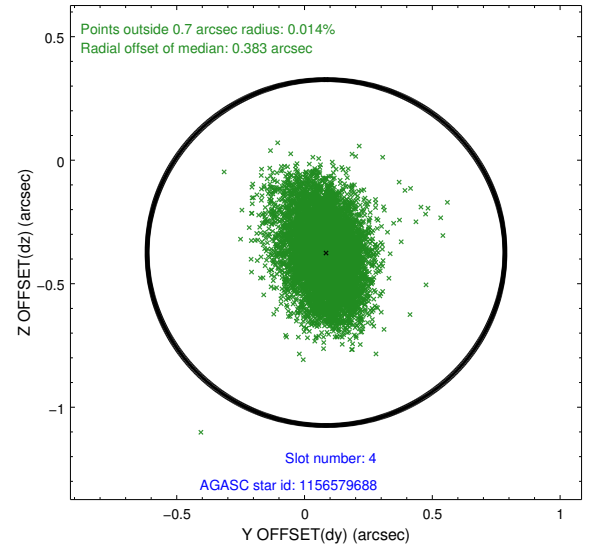
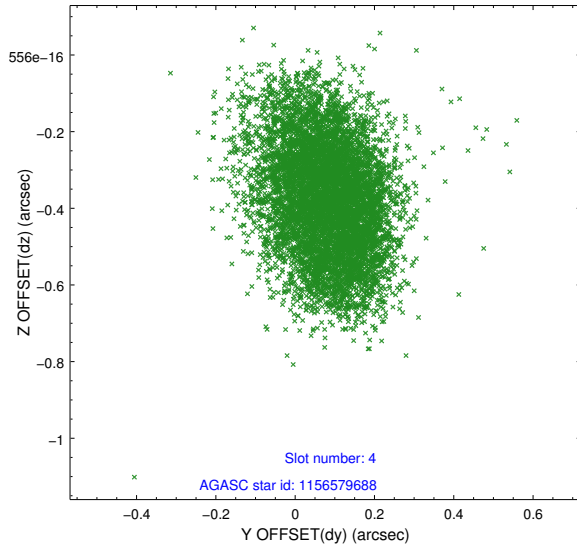
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.16	3475	1.000	0.113	-0.098	0.056	0.072	0.000000	0.000000	931.82	-841
1	FID		ACIS-I-5	7.15	3477	1.000	-0.438	0.037	0.010	0.016	0.000000	0.000000	-1816.81	1055
2	FID		ACIS-I-6	7.13	3477	1.000	0.235	0.126	0.049	0.064	0.000000	0.000000	396.94	1701
3	GUIDE	used	1108085680	9.43	6865	1.000	0.258	0.015	0.182	0.288	345.144566	-52.439600	-2243.17	226
4	GUIDE	used	1156579688	9.27	6944	1.000	0.084	-0.374	0.175	0.289	344.832962	-53.359427	1130.06	423
5	GUIDE	used	1156580632	9.77	6933	1.000	-0.015	0.276	0.217	0.349	344.592634	-53.121058	436.98	-298
6	GUIDE	used	1156580872	7.17	6953	1.000	-0.248	0.008	0.101	0.168	345.684447	-52.965335	-708.03	1843
7	GUIDE	used	1156581376	8.95	6948	1.000	-0.060	0.062	0.133	0.242	345.778087	-52.647374	-1867.71	1758

2.4 Star Slots

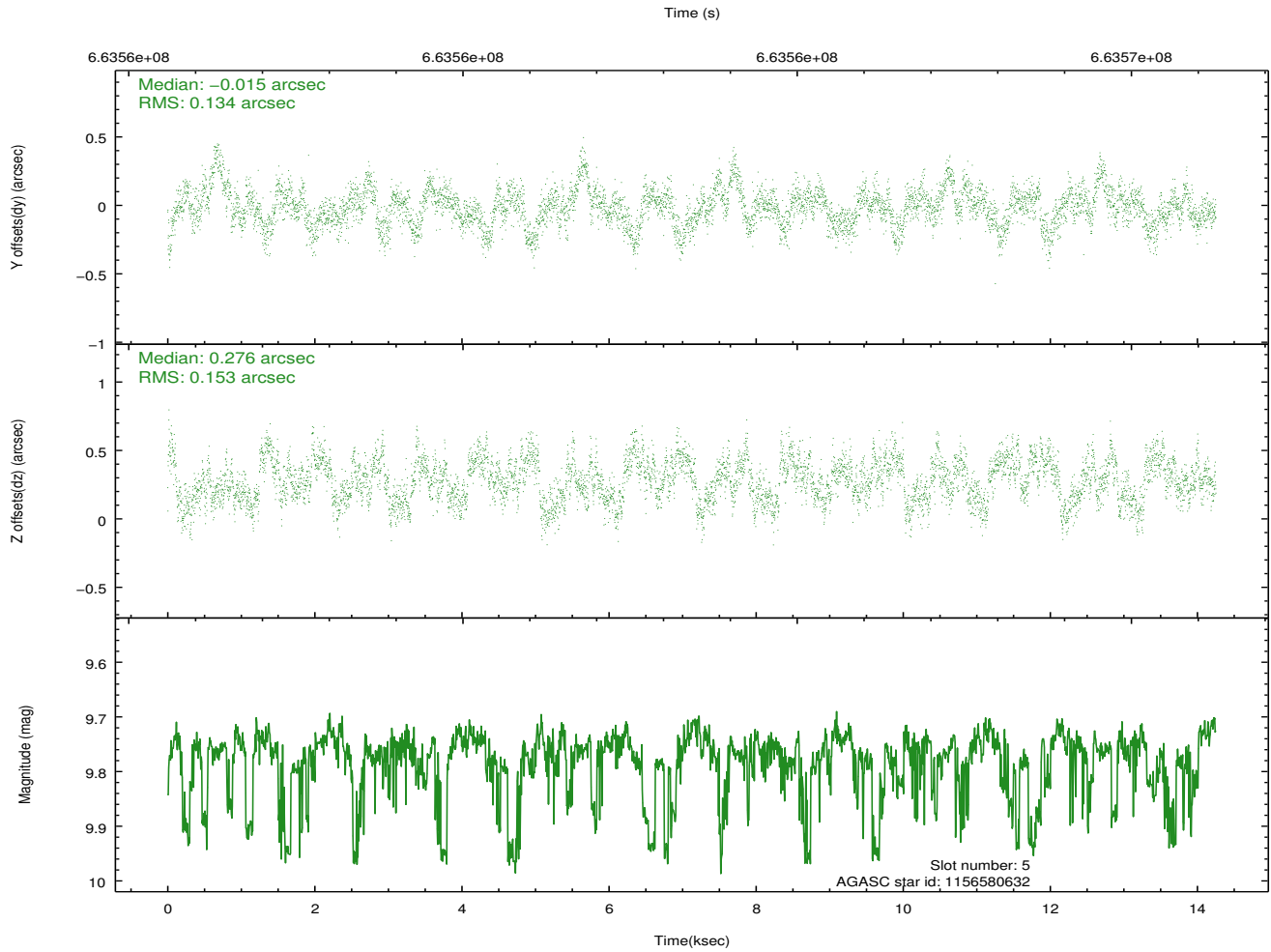
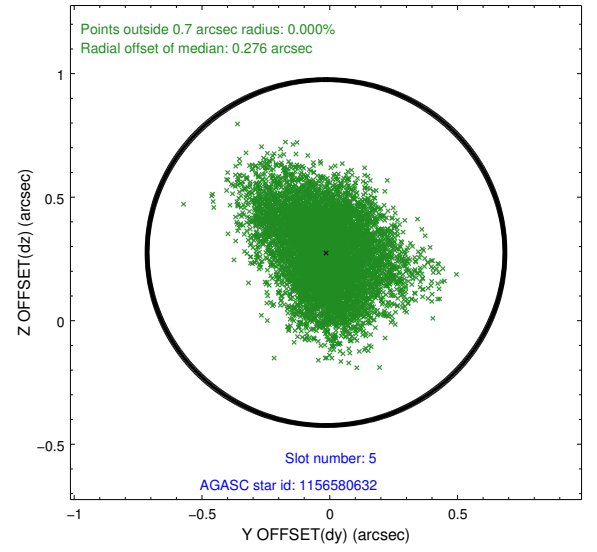
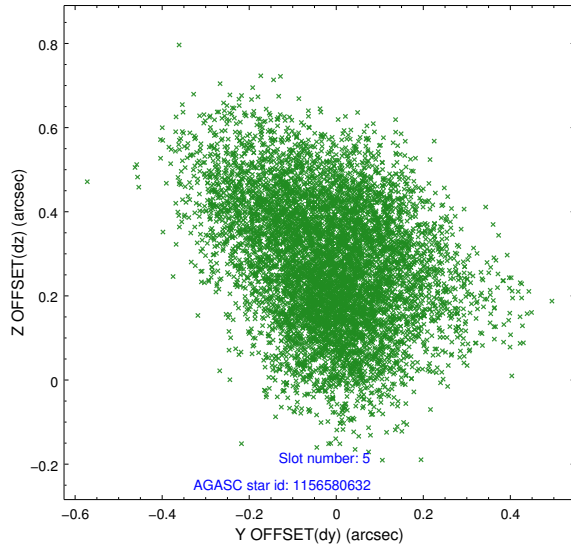
2.4.1 Slot 3



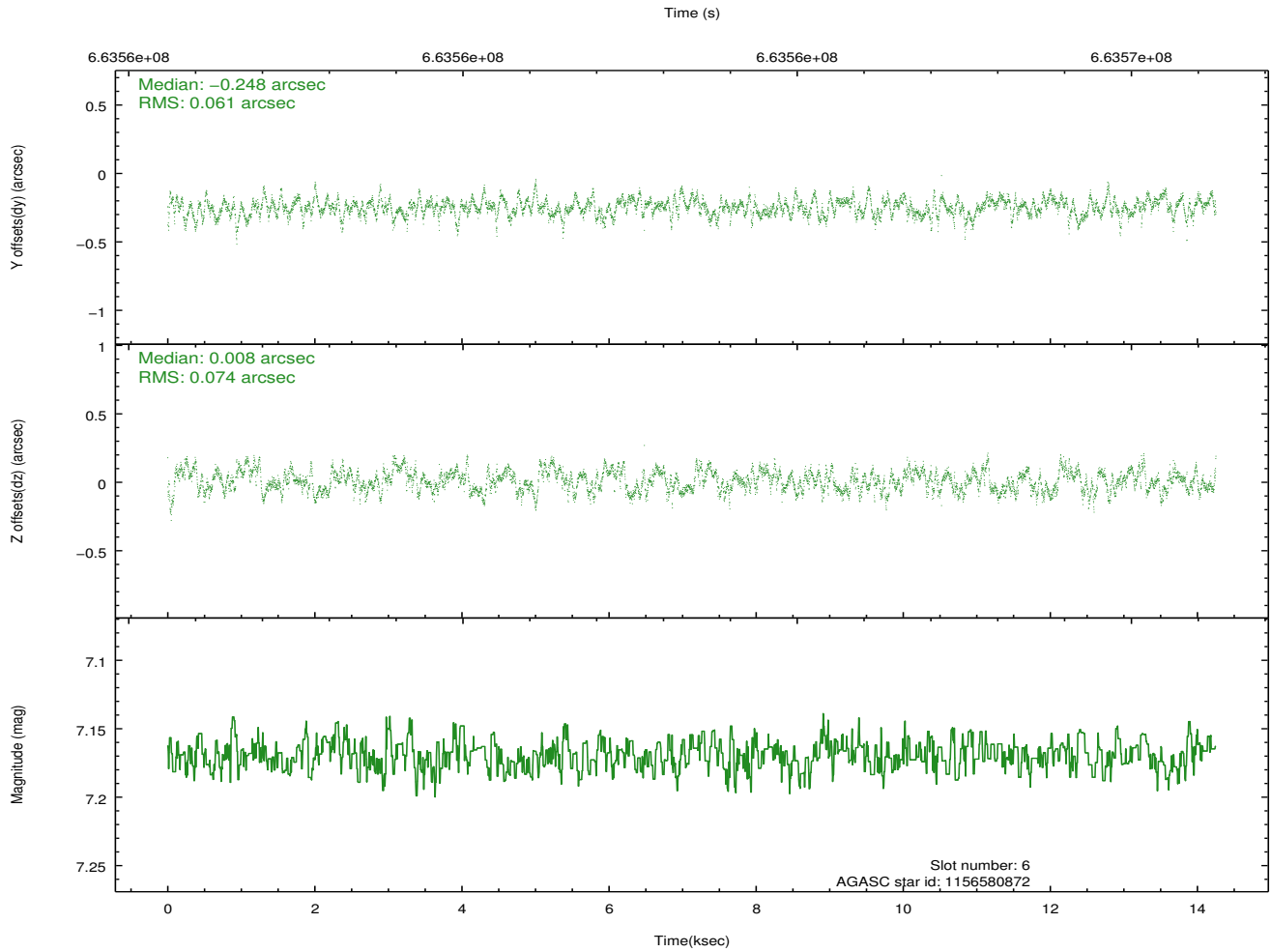
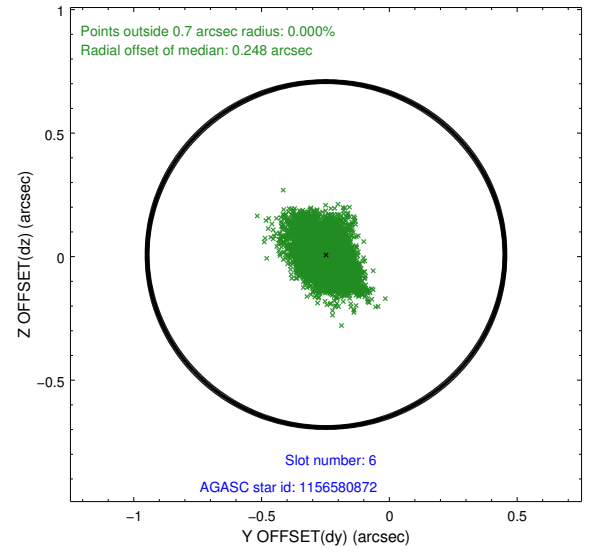
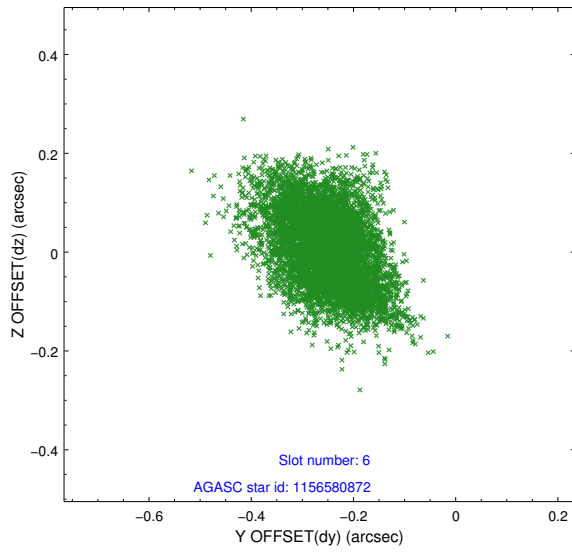
2.4.2 Slot 4



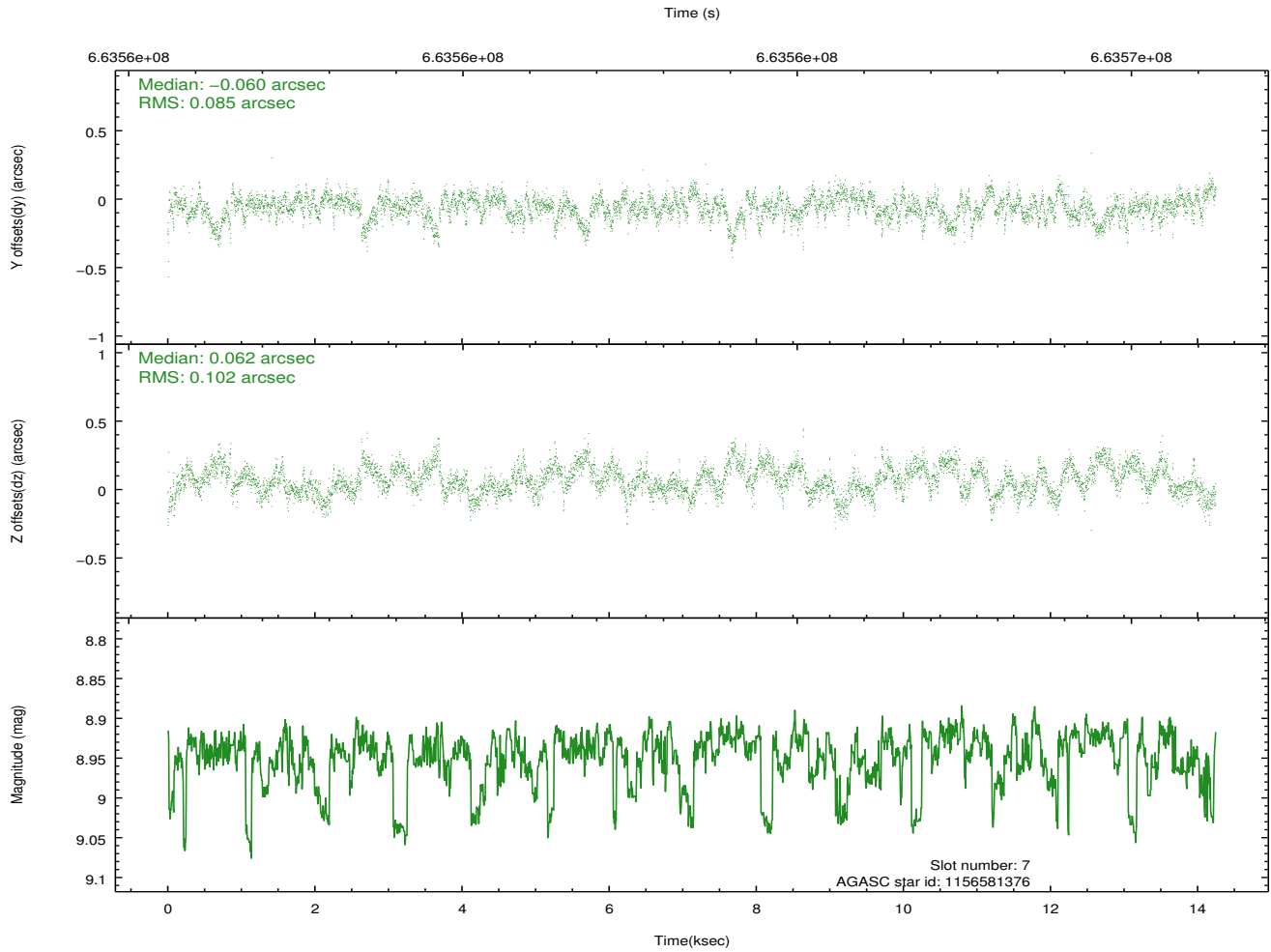
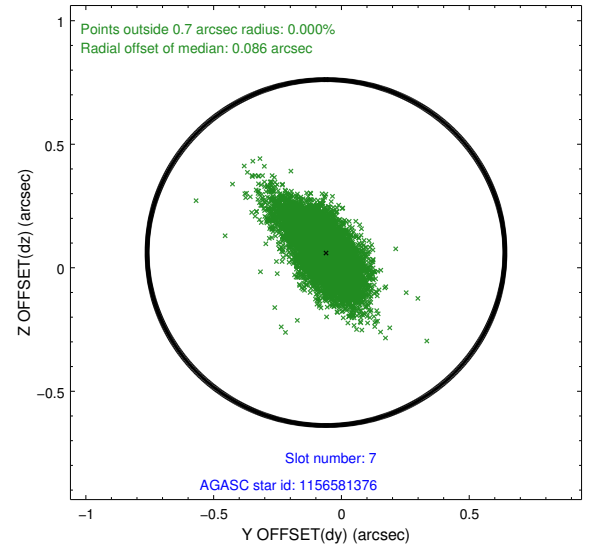
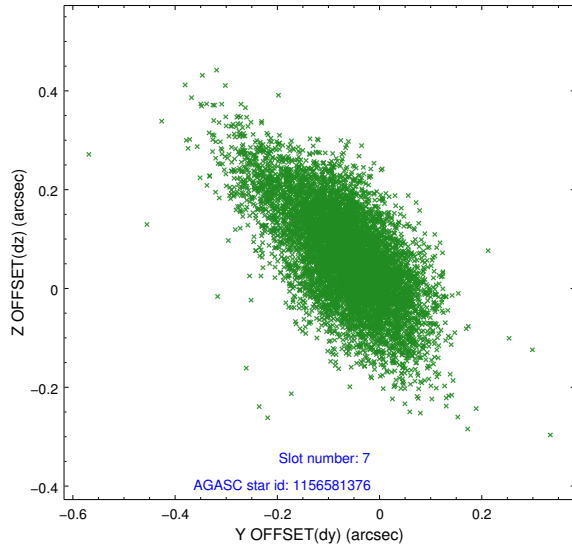
2.4.3 Slot 5



2.4.4 Slot 6

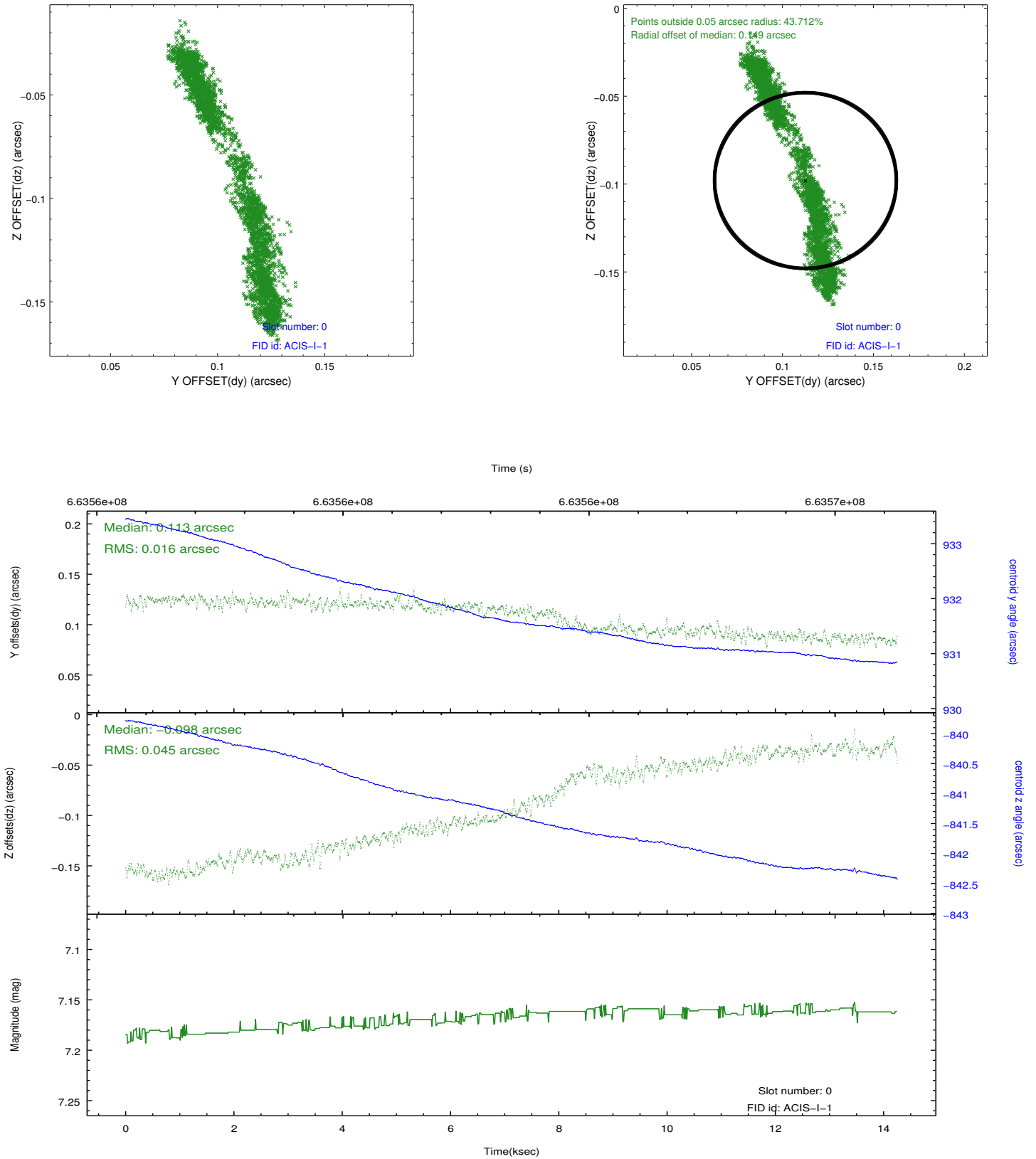


2.4.5 Slot 7

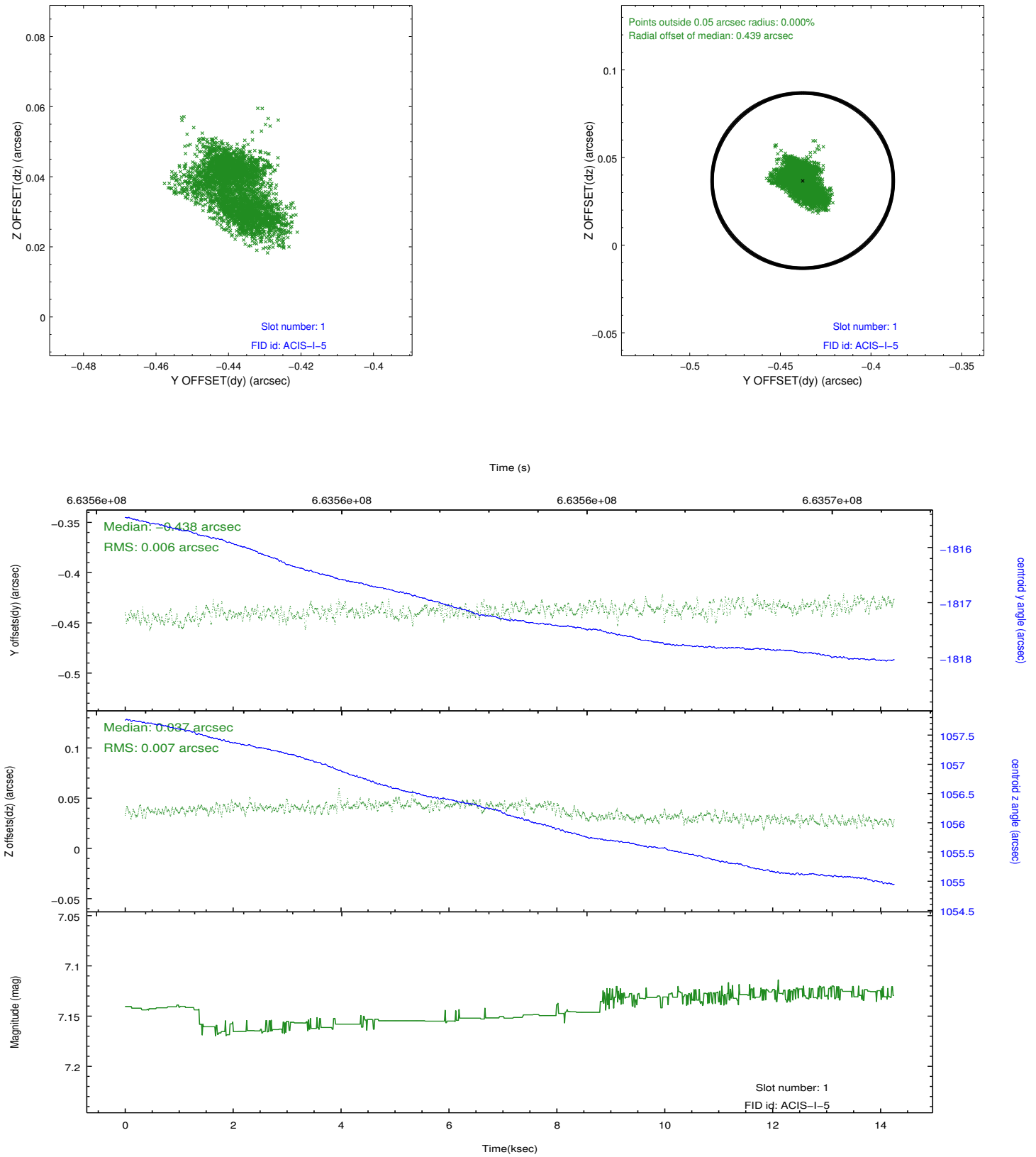


2.5 FID Slots

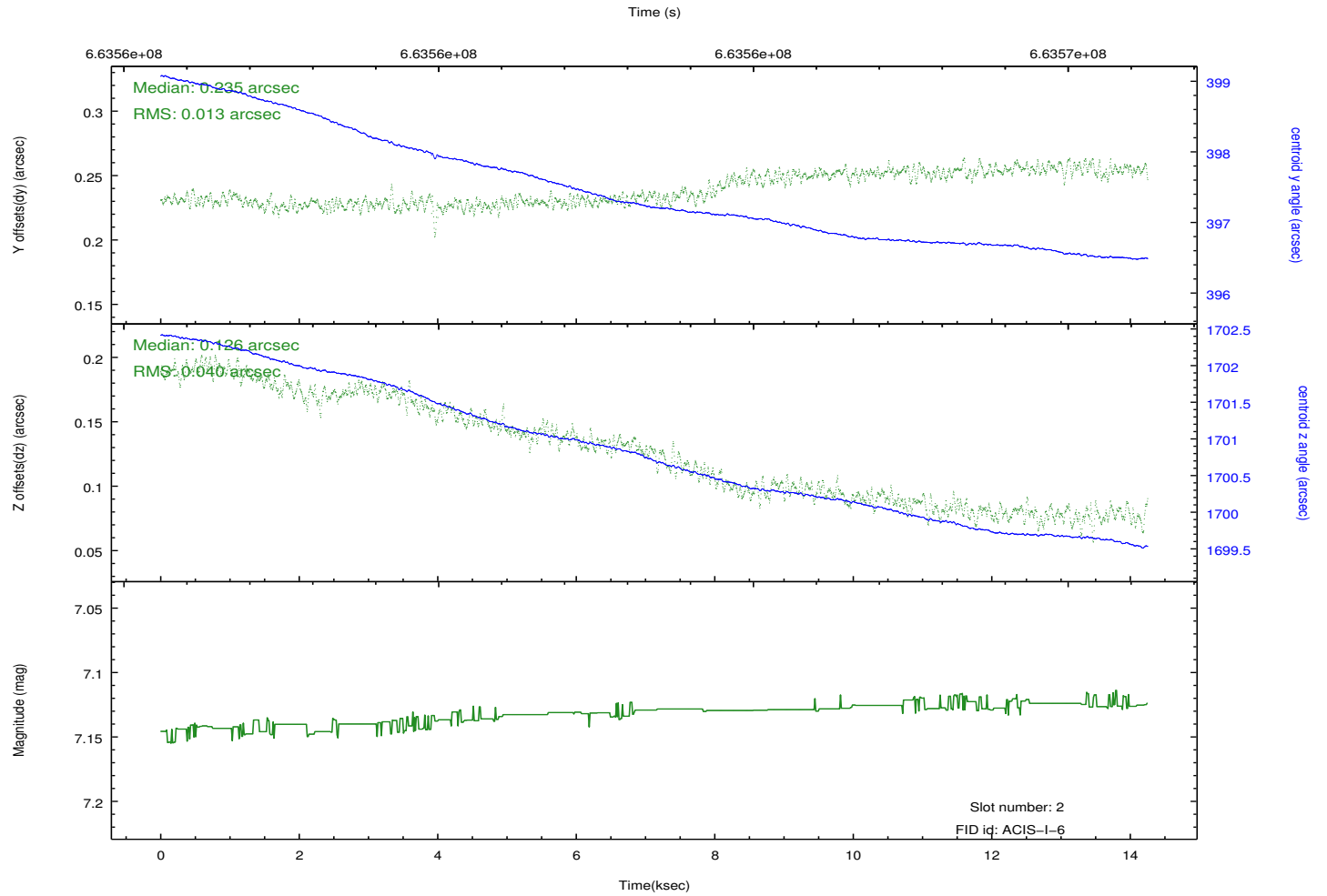
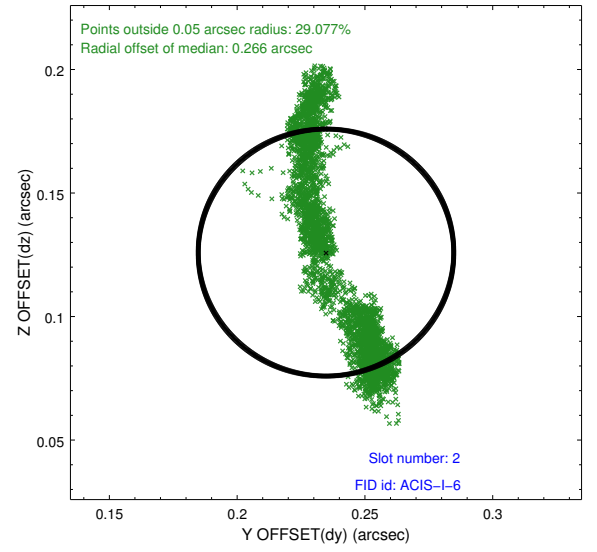
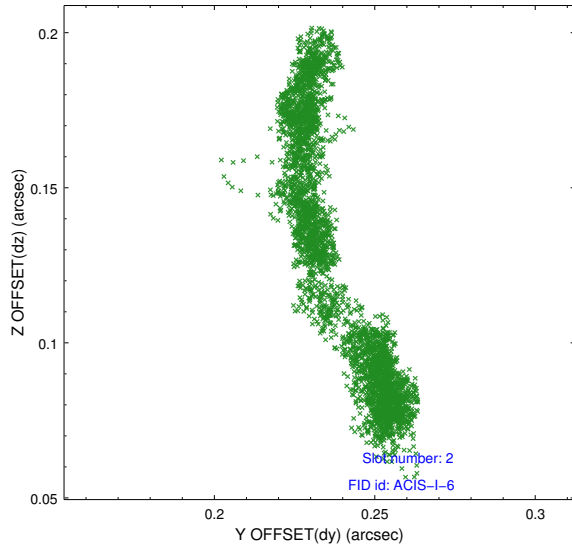
2.5.1 Slot 0



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)	2019.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.141691007733

A.2 Comments