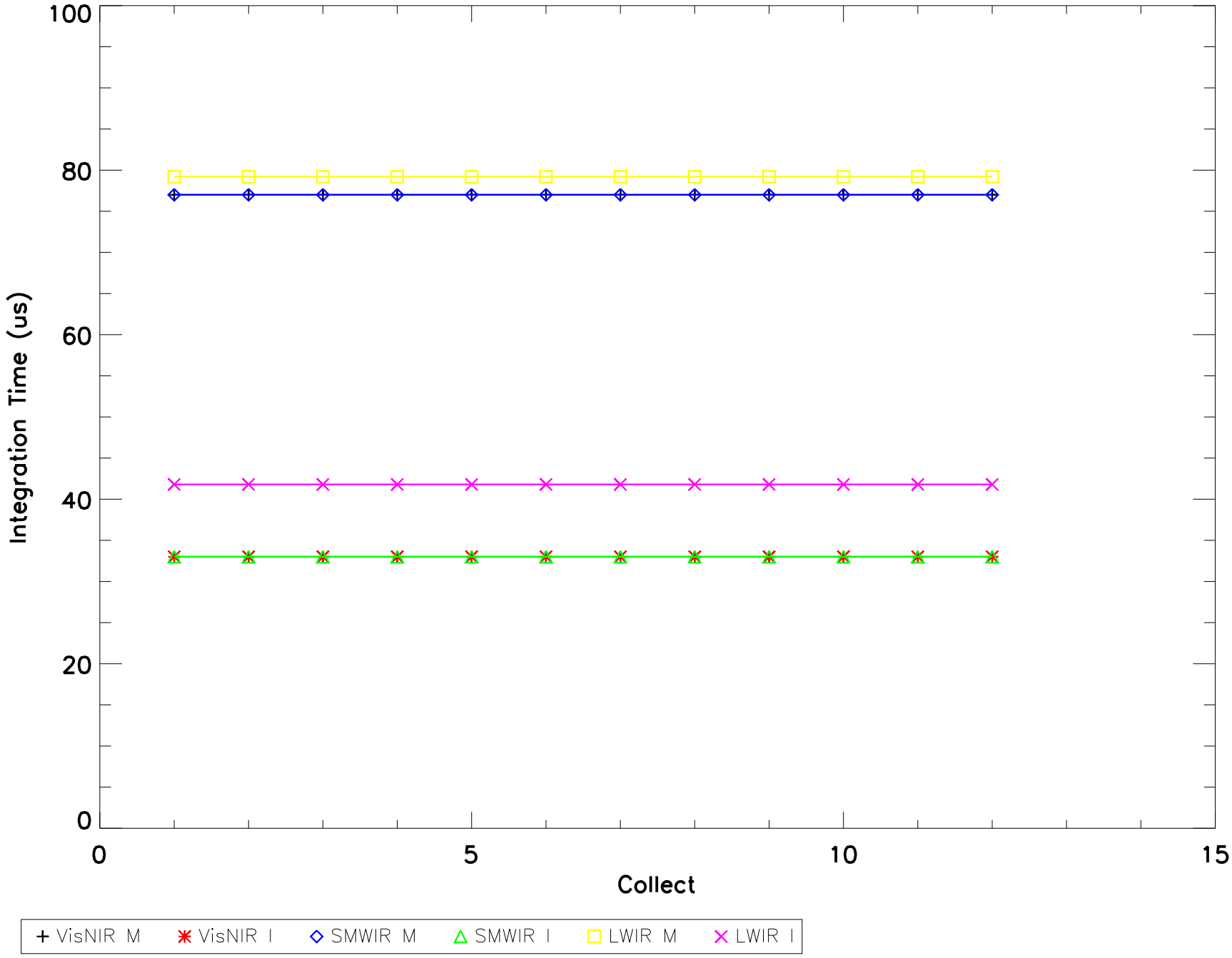
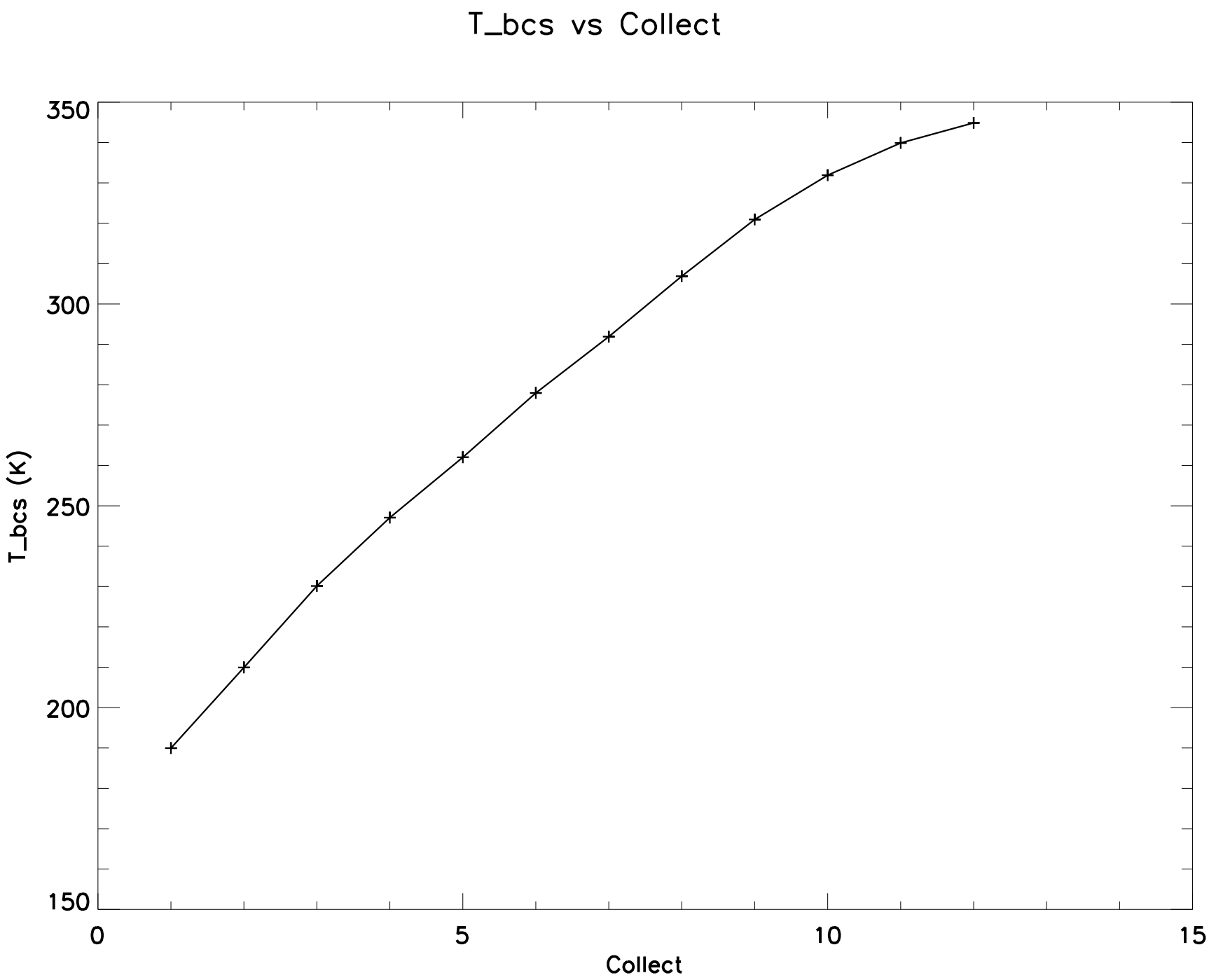
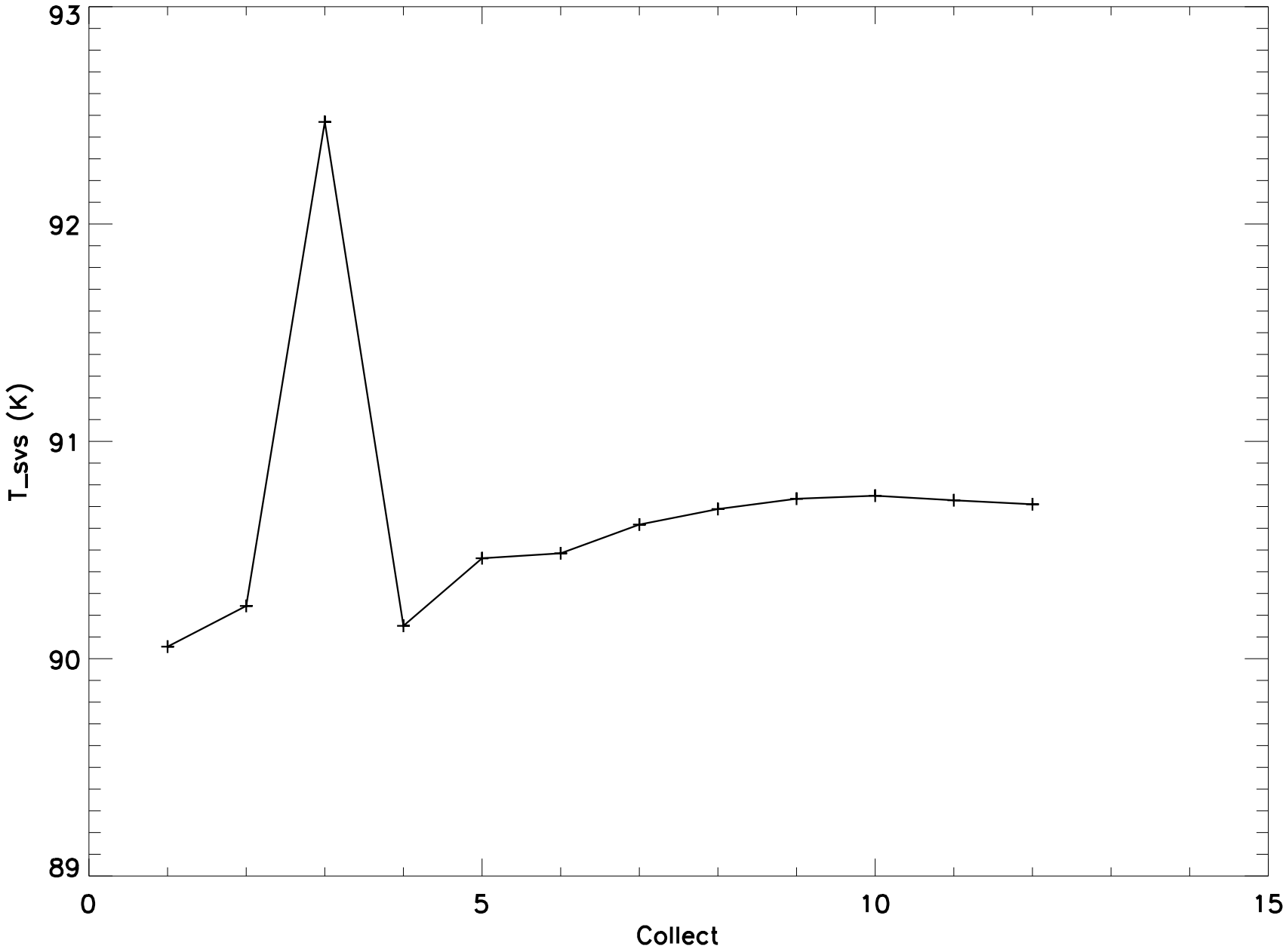
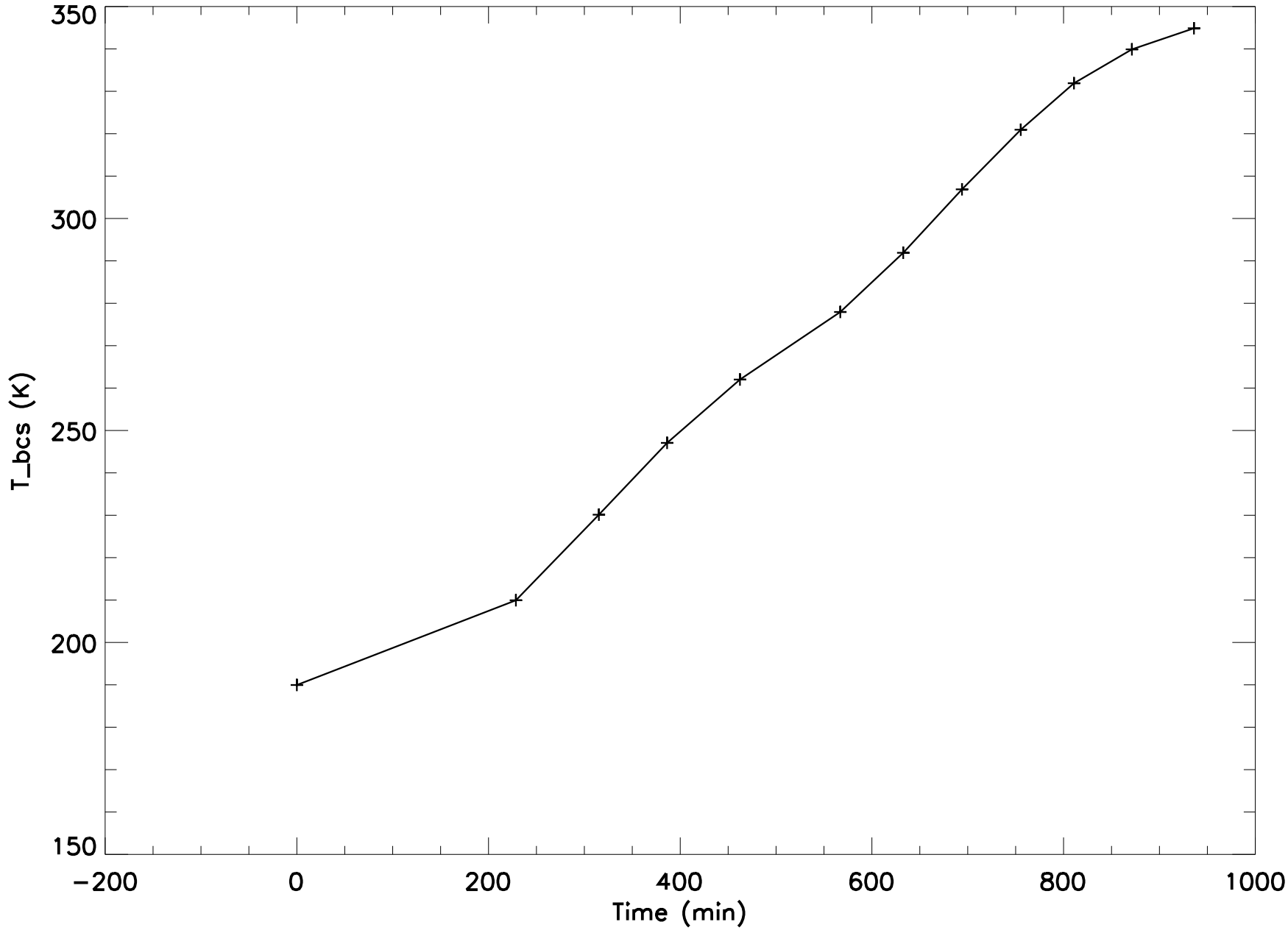
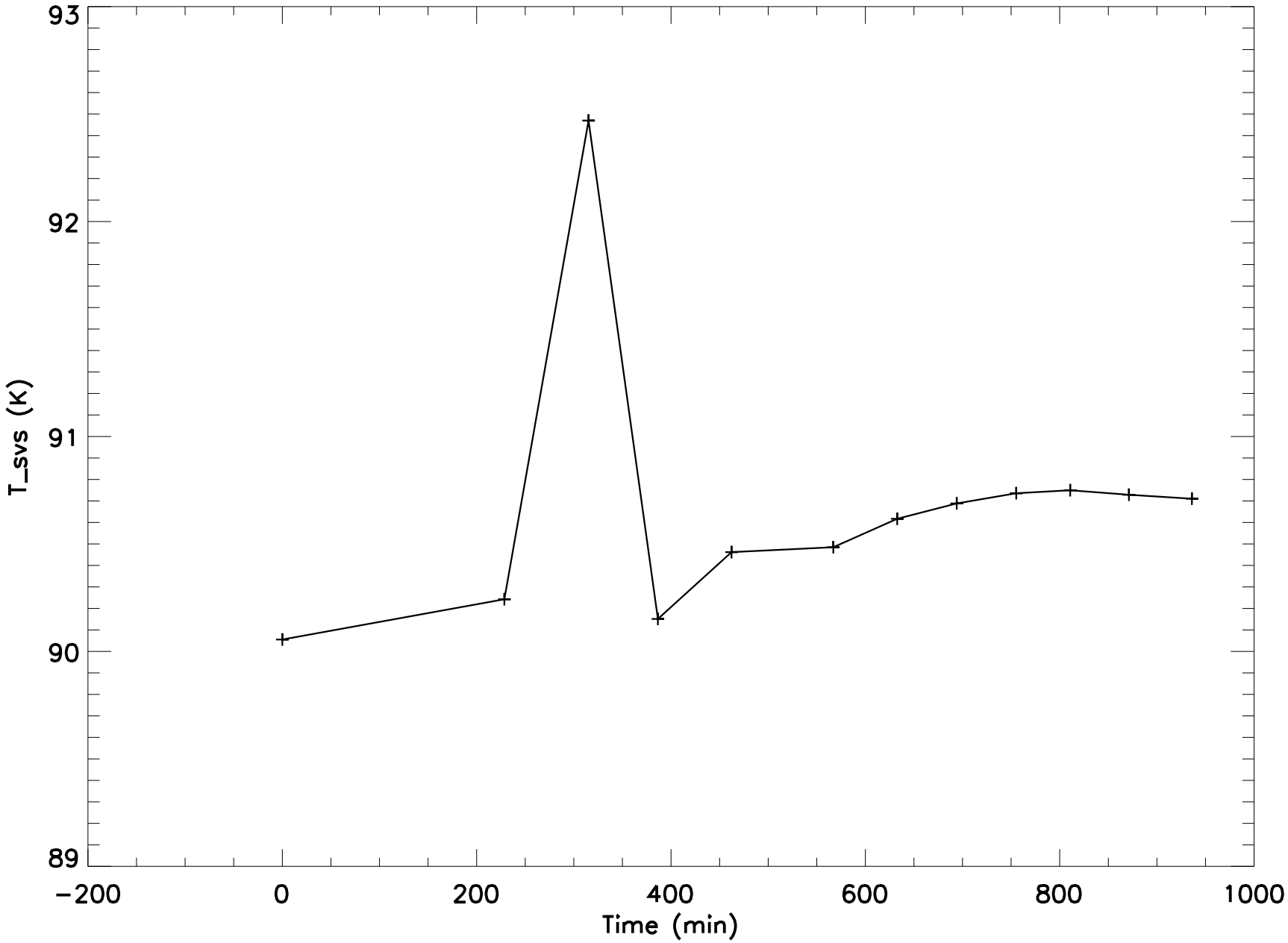
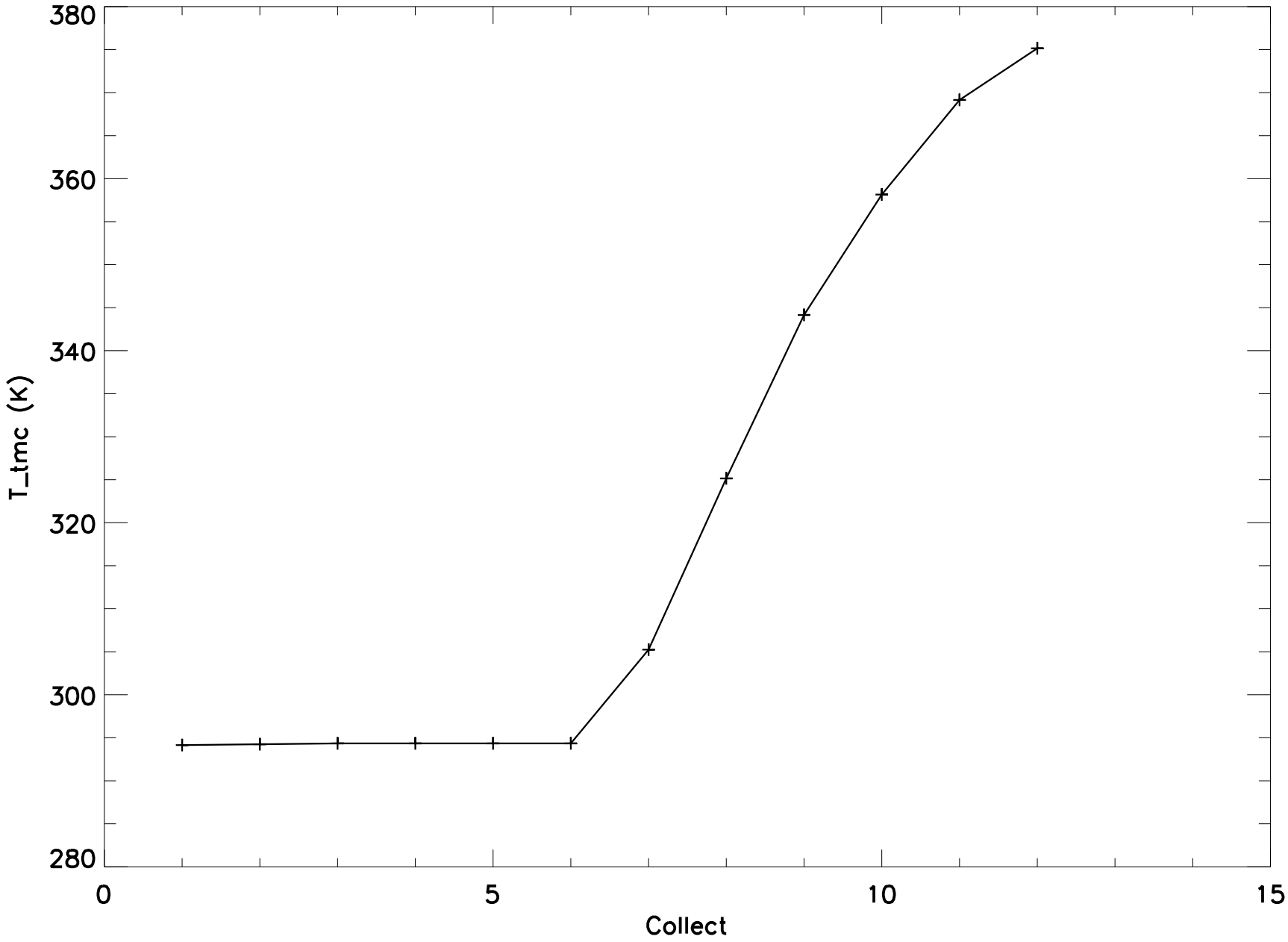

Integration Time vs Collect
Integration Time (us)
100
80
60
40
20
0
0
5
10
15
Collect
VisNIR M
VisNIR I
SMWIR M
SMWIR I
LWIR M
LWIR I

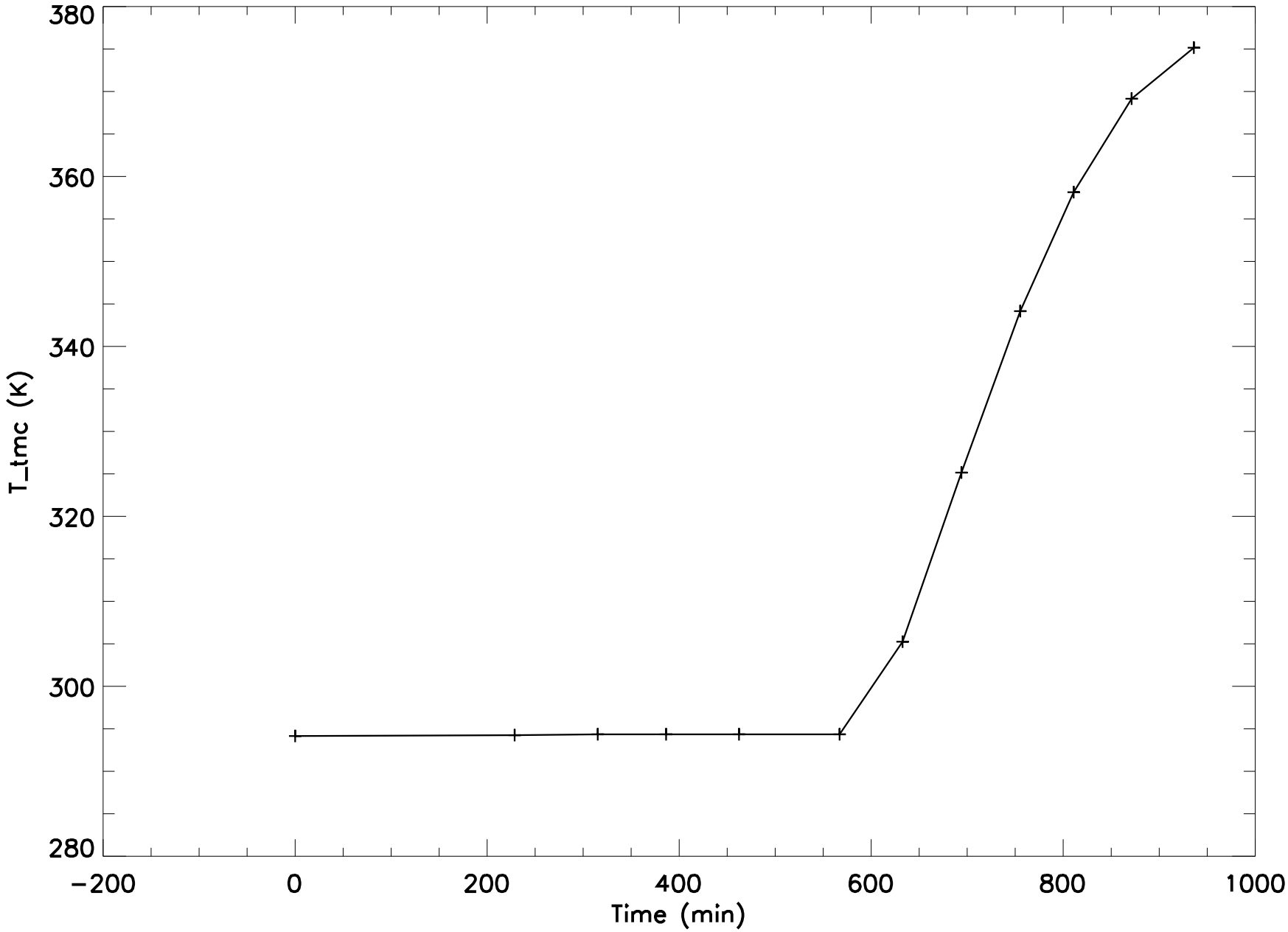

T_bcs vs Collect
350
300
250
200
150
T_bcs (K)
0
5
10
15
Collect

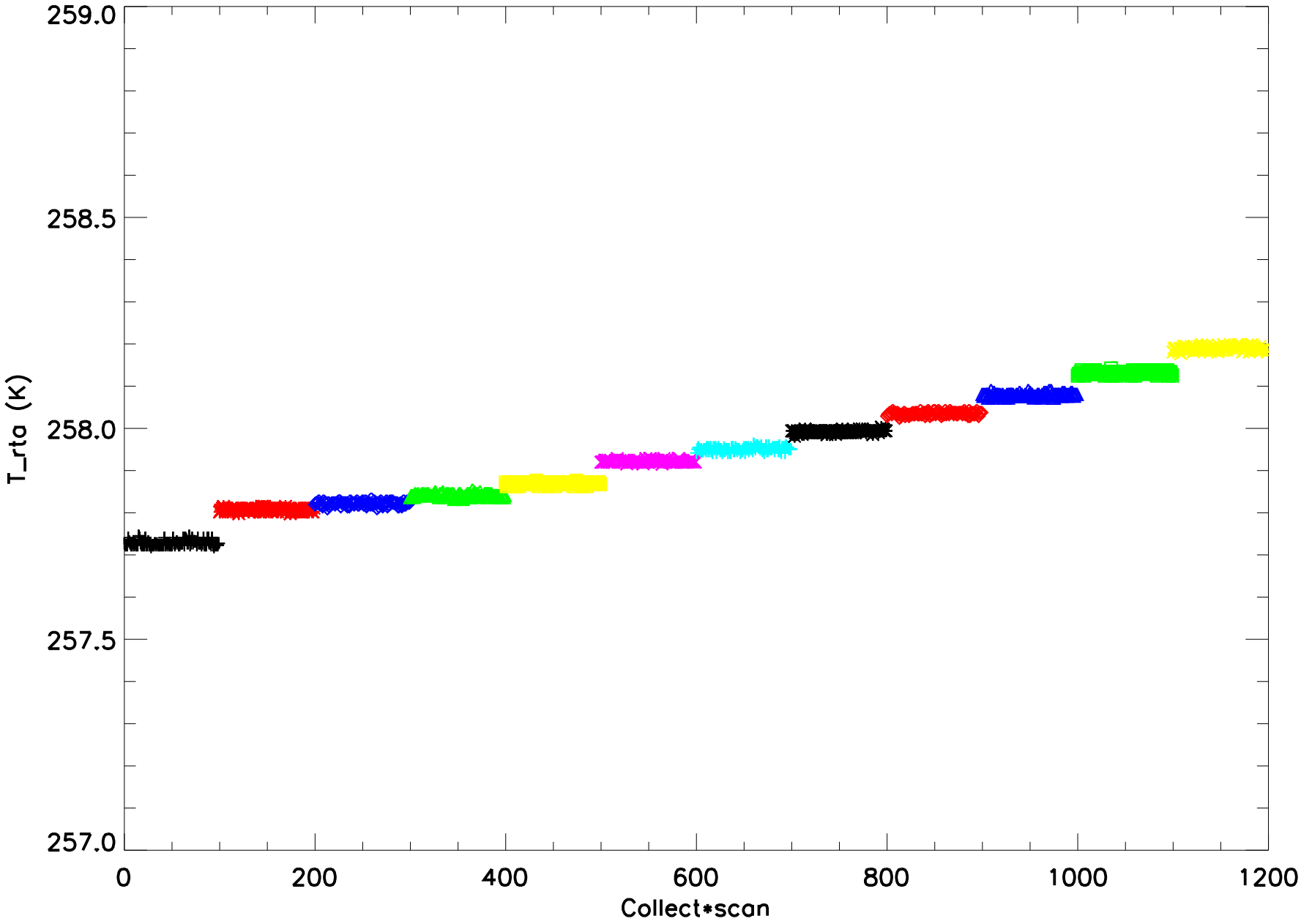

T_svs vs Collect
93
92
91
90
89
T_svs (K)
0
5
10
15
Collect

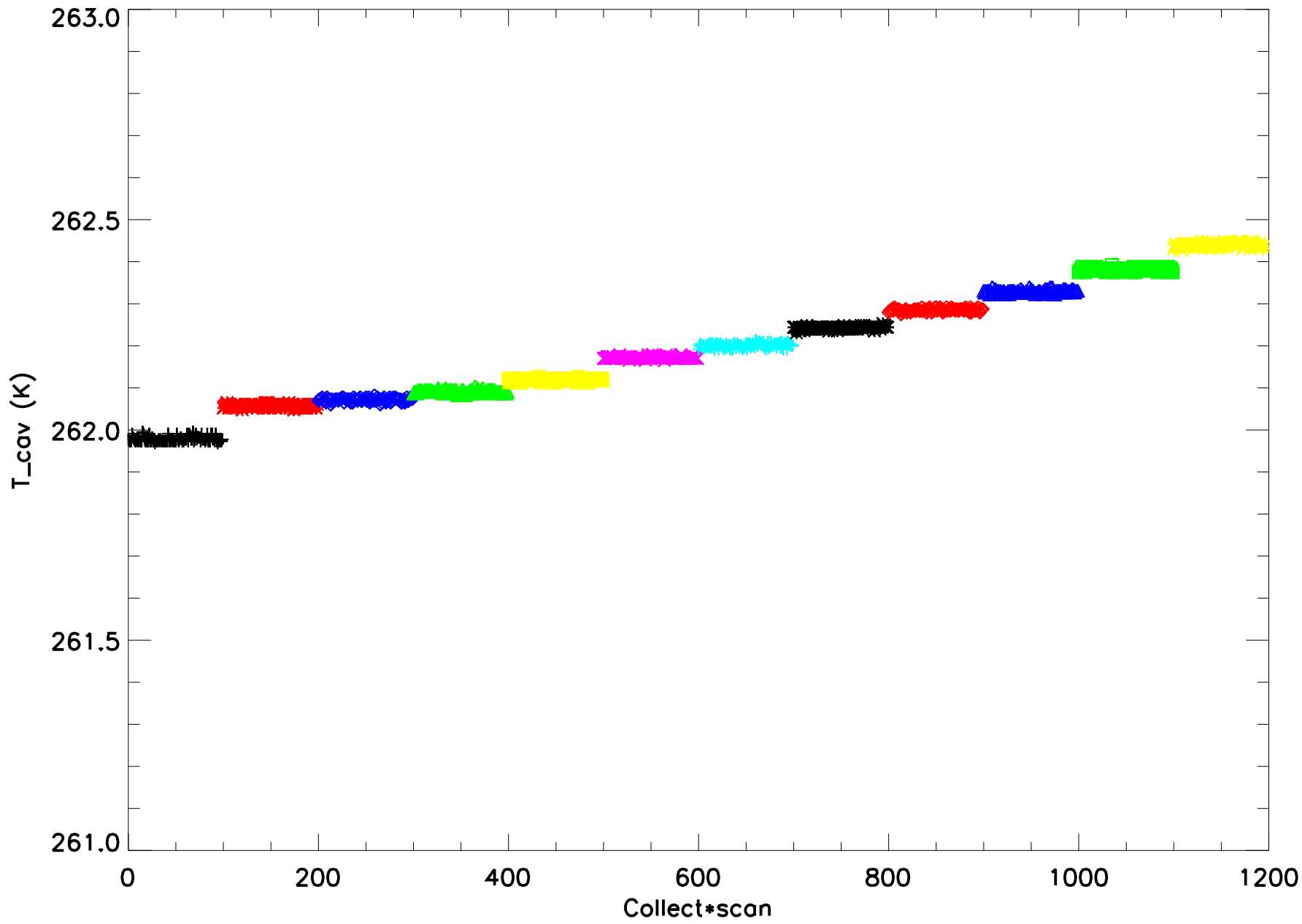

T_bcs vs Time
350
300
250
200
150
T_bcs (K)
−200
0
200
400
600
800
1000
Time (min)

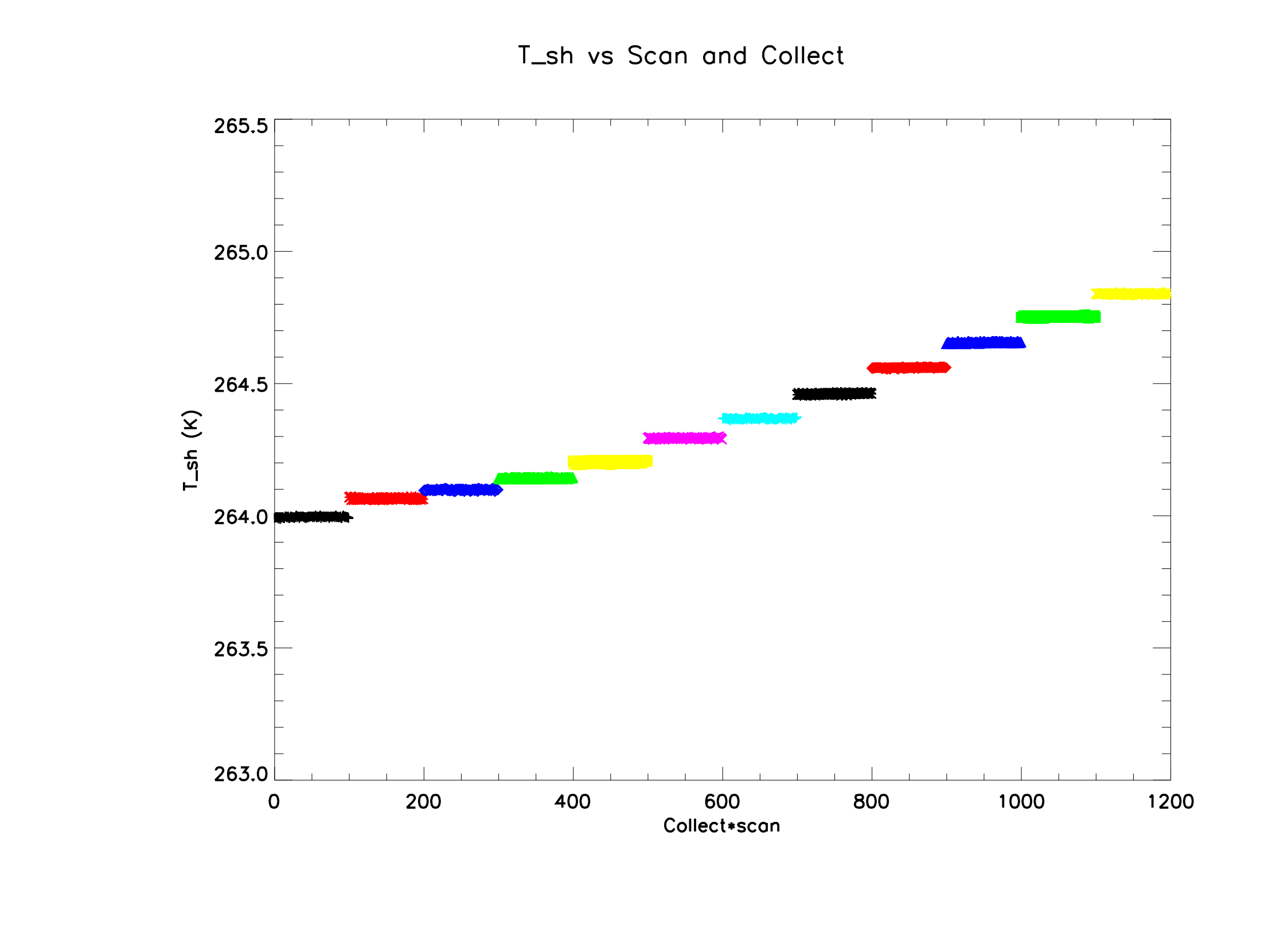

T_svs vs Time
93
92
91
90
89
T_svs (K)
−200
0
200
400
600
800
1000
Time (min)

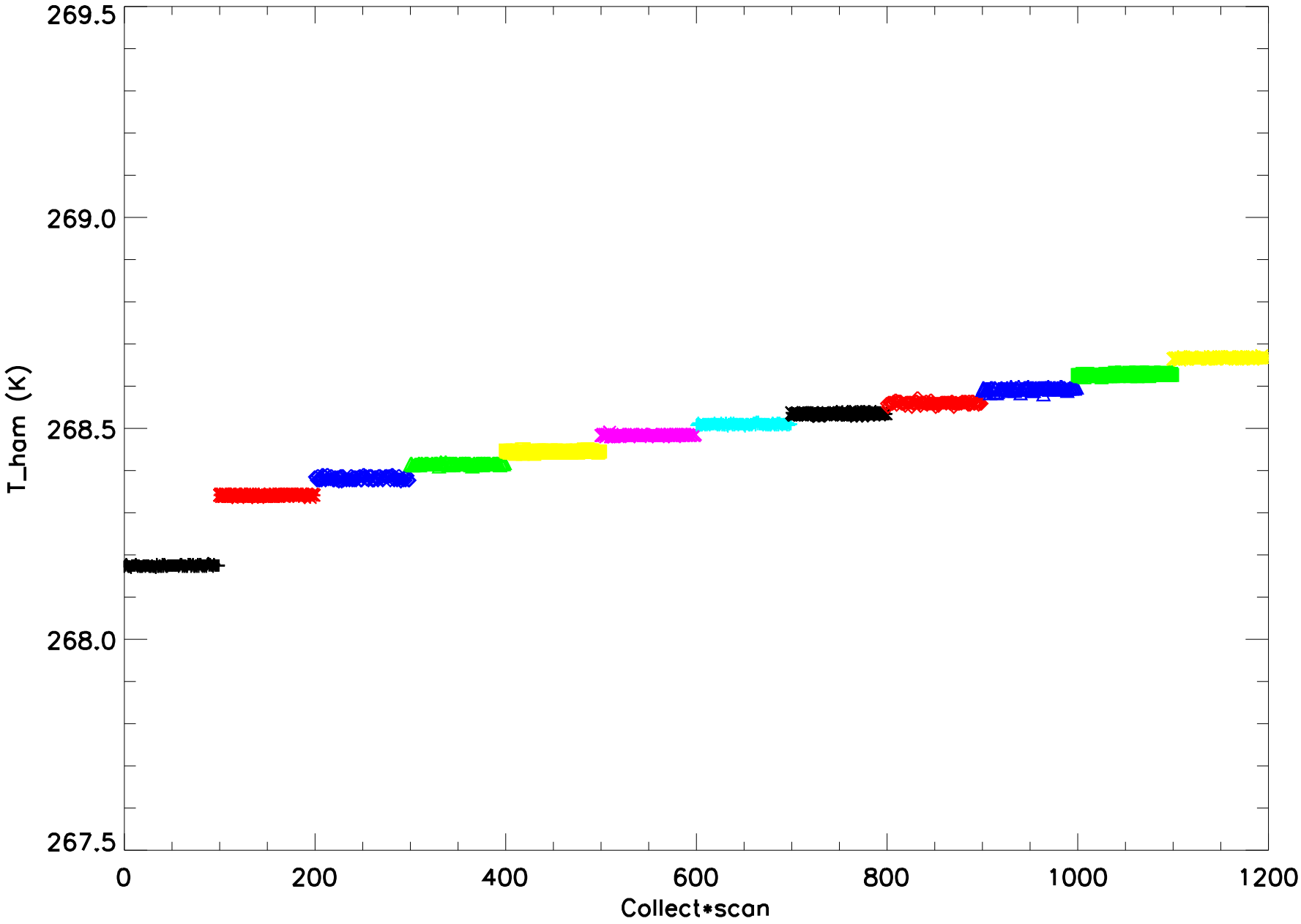

T_tmc vs Collect
380
360
340
320
300
280
T_tmc (K)
0
5
10
15
Collect

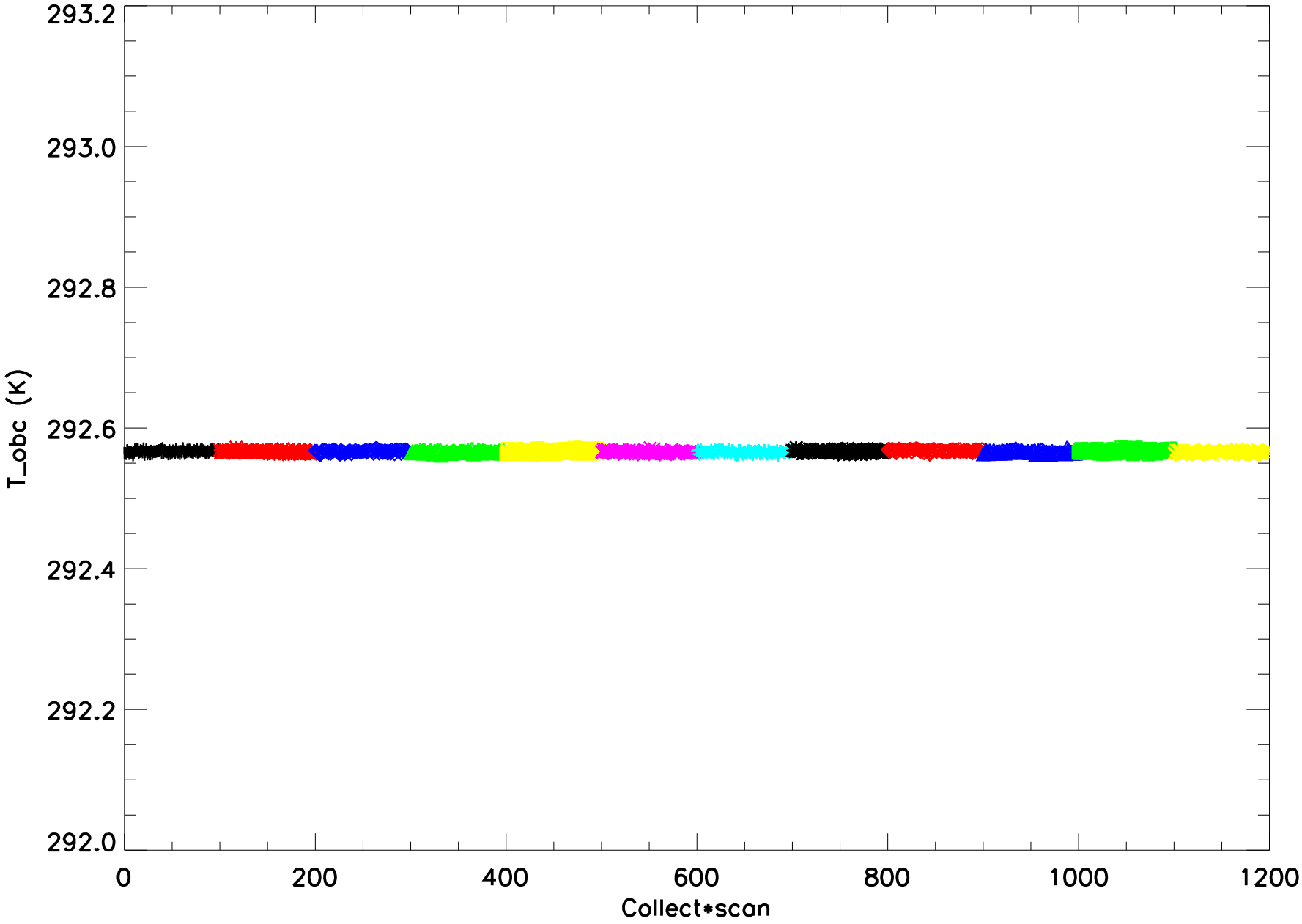

T_tmc vs Time
380
360
340
320
300
280
T_tmc (K)
−200
0
200
400
600
800
1000
Time (min)

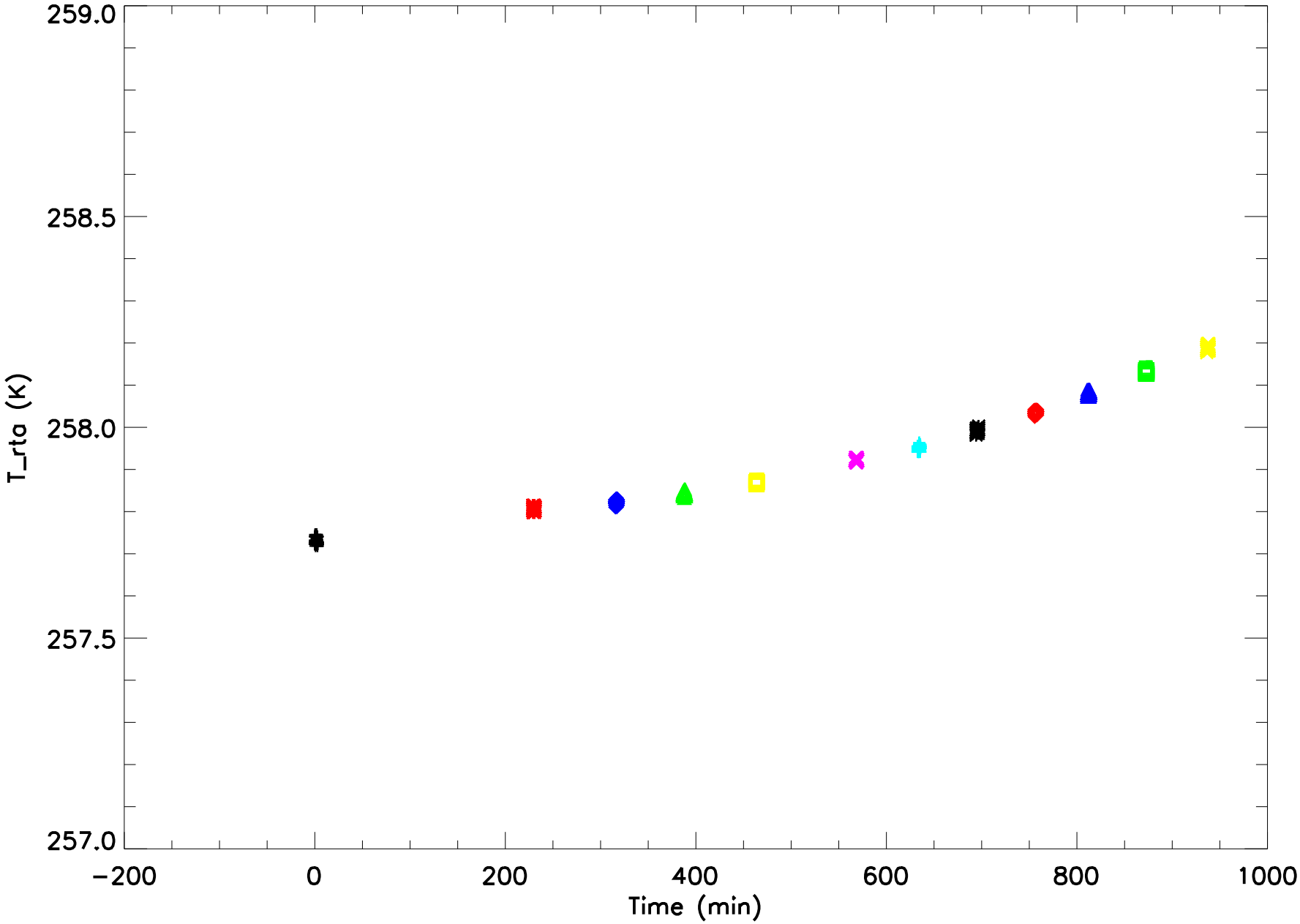

T_rta vs Scan and Collect
259.0
258.5
258.0
257.5
257.0
T_rta (K)
0
200
400
600
800
1000
1200
Collect*scan

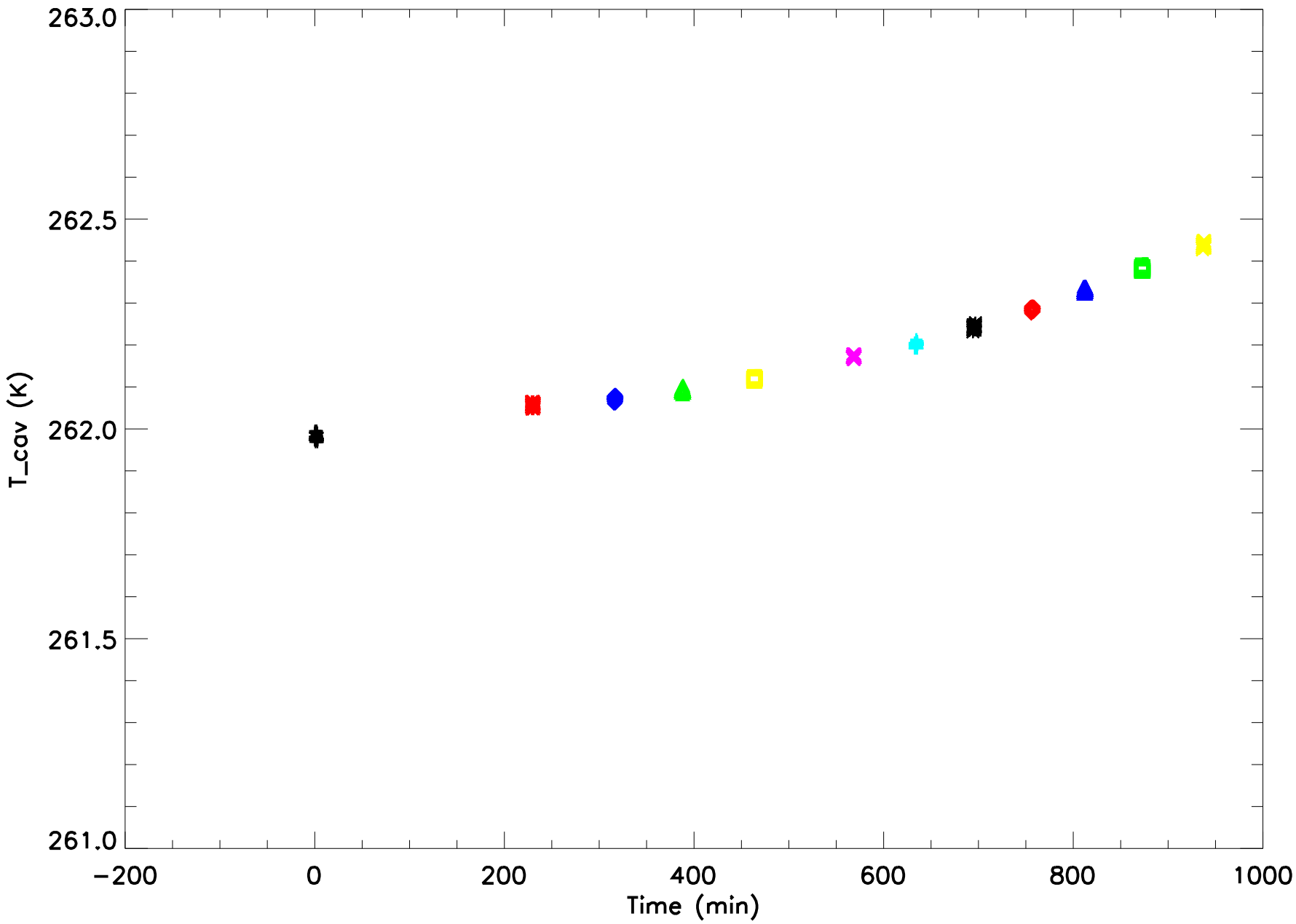

T_cav vs Scan and Collect
263.0
262.5
262.0
261.5
261.0
T_cav (K)
0
200
400
600
800
1000
1200
Collect*scan

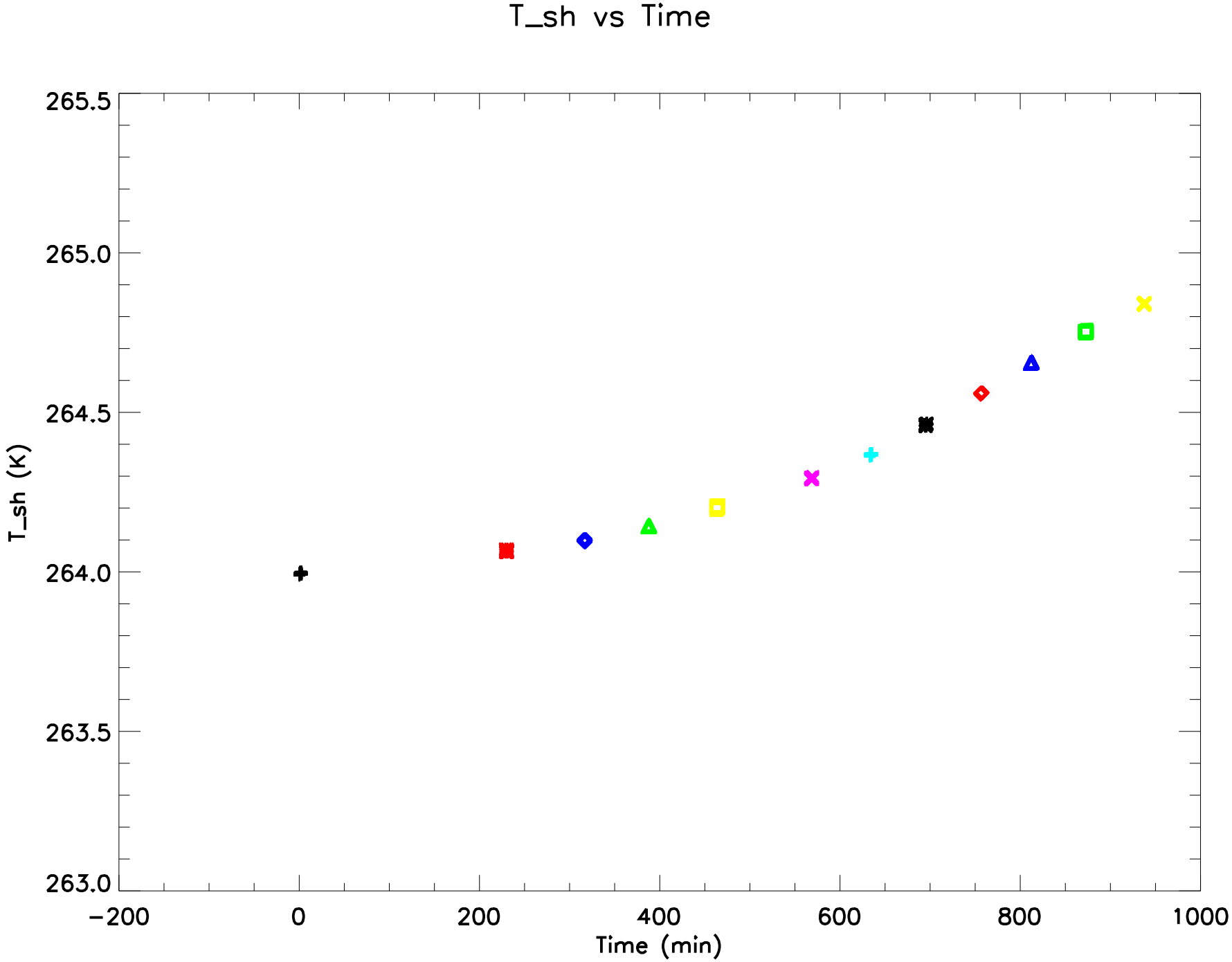

T_sh vs Scan and Collect
265.5
265.0
264.5
264.0
263.5
263.0
T_sh (K)
0
200
400
600
800
1000
1200
Collect*scan

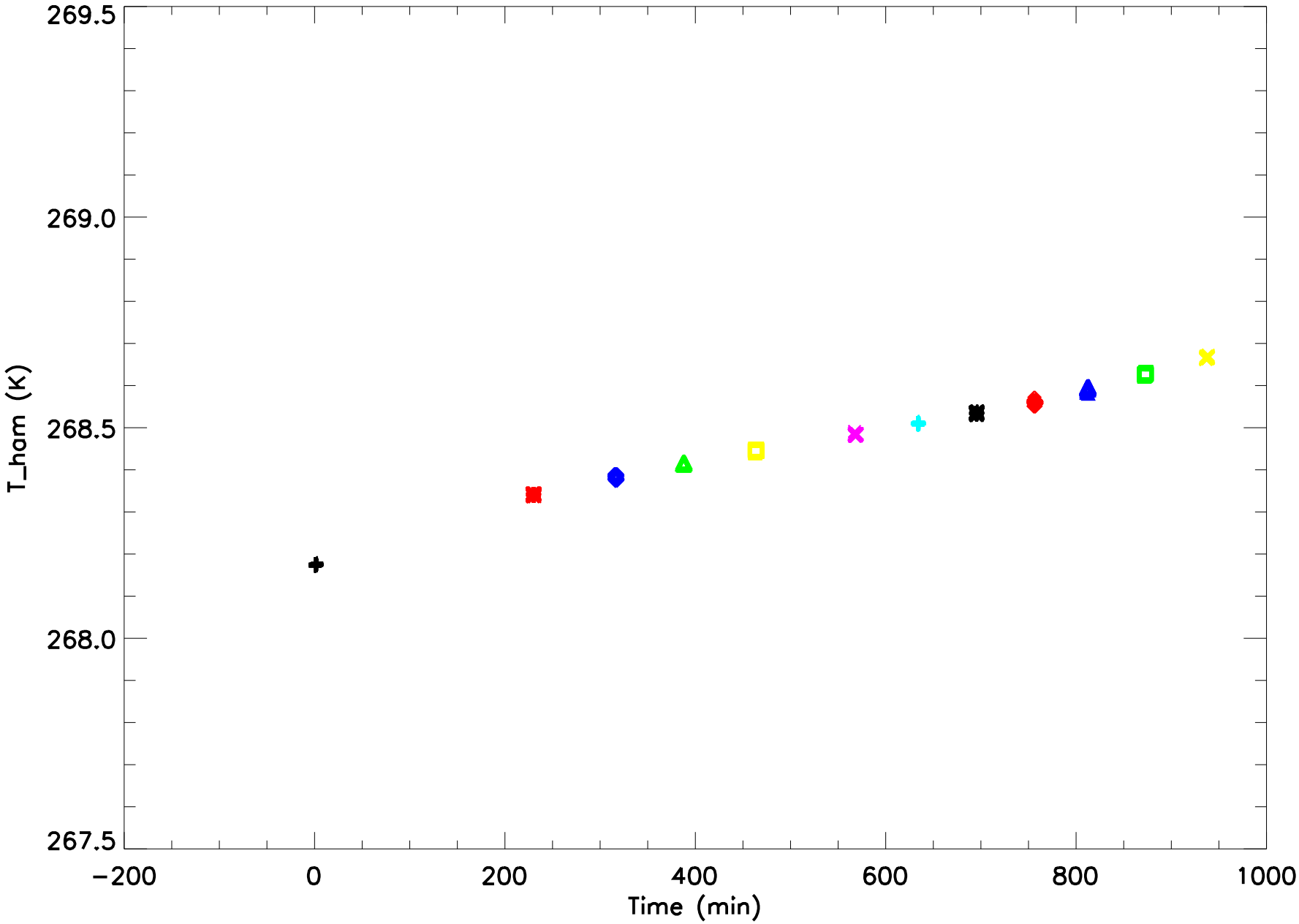

T_ham vs Scan and Collect
269.5
269.0
268.5
268.0
267.5
T_ham (K)
0
200
400
600
800
1000
1200
Collect*scan

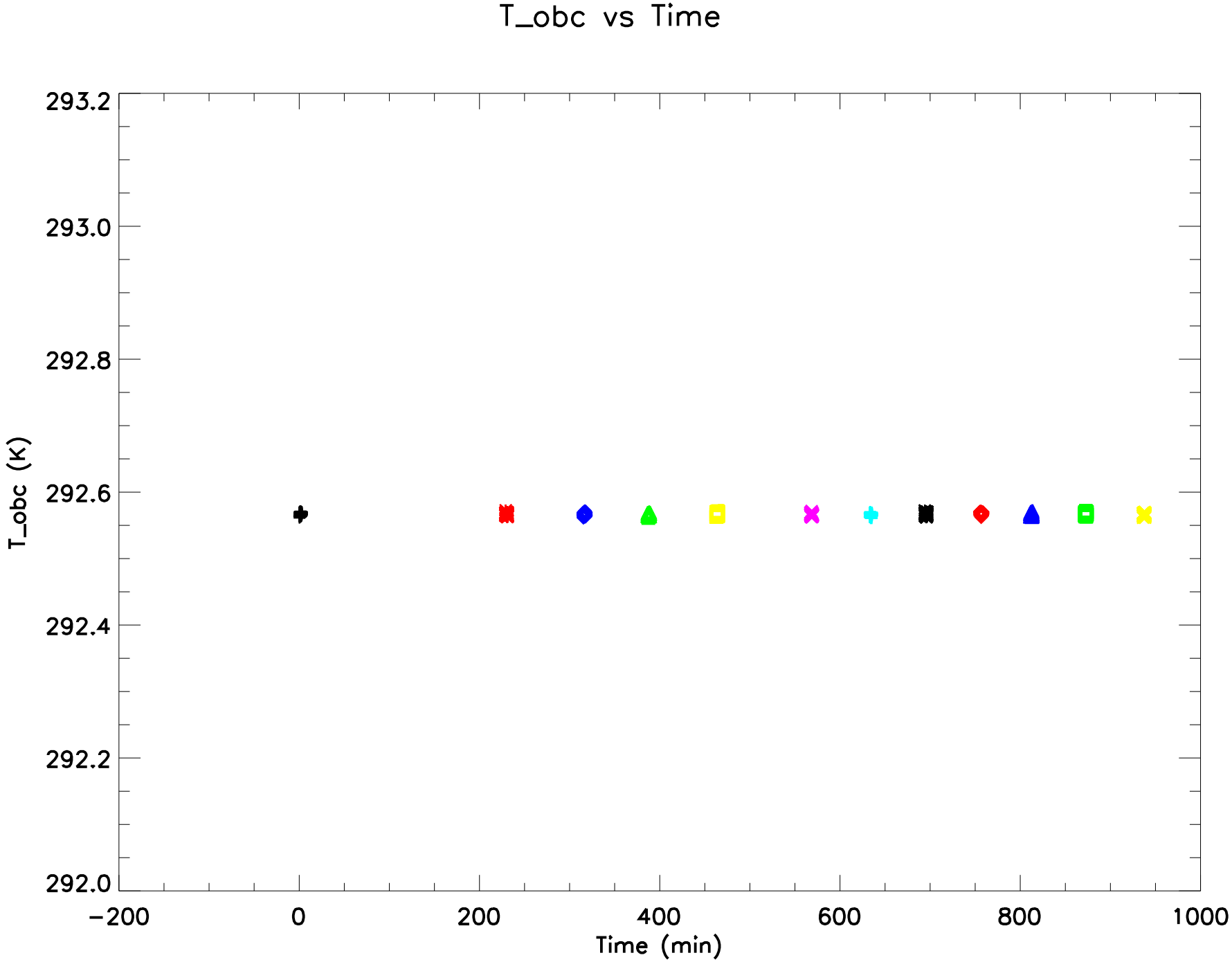

T_obc vs Scan and Collect
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
0
200
400
600
800
1000
1200
Collect*scan

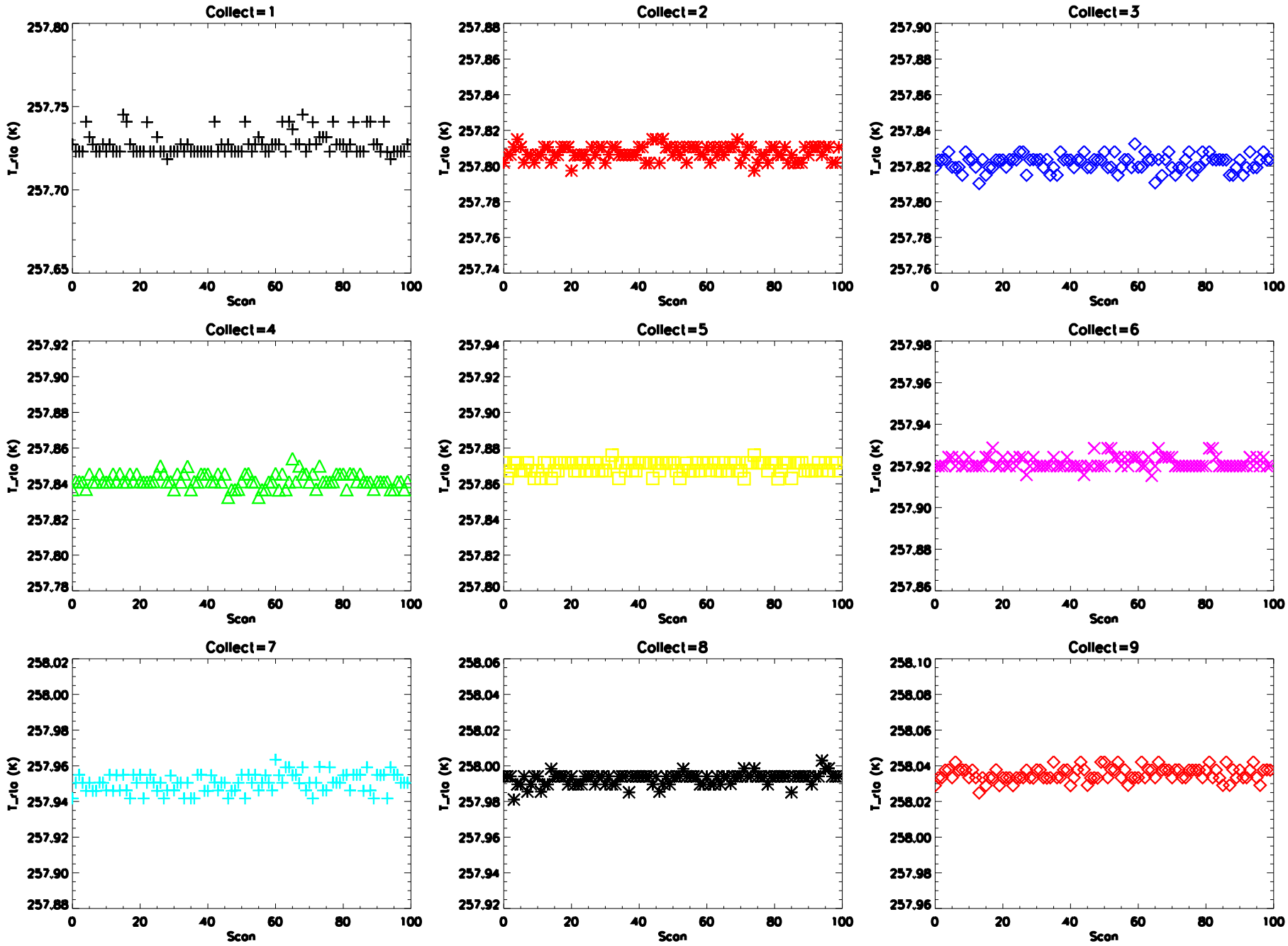

T_rta vs Time
259.0
258.5
258.0
257.5
257.0
T_rta (K)
−200
0
200
400
600
800
1000
Time (min)


T_cav vs Time
263.0
262.5
262.0
261.5
261.0
T_cav (K)
−200
0
200
400
600
800
1000
Time (min)

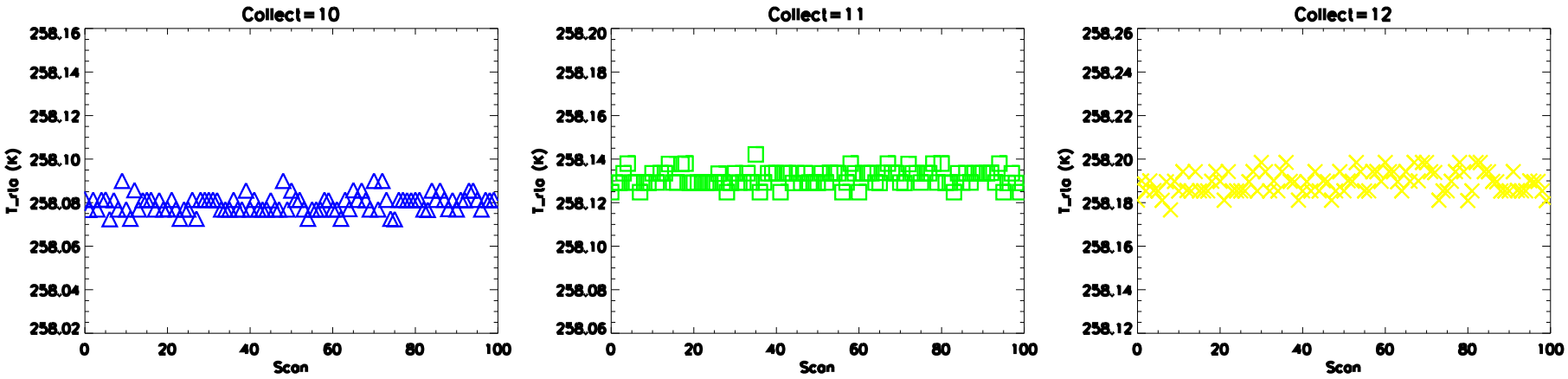

T_sh vs Time
265.5
265.0
264.5
264.0
263.5
263.0
T_sh (K)
−200
0
200
400
600
800
1000
Time (min)


T_ham vs Time
269.5
269.0
268.5
268.0
267.5
T_ham (K)
−200
0
200
400
600
800
1000
Time (min)

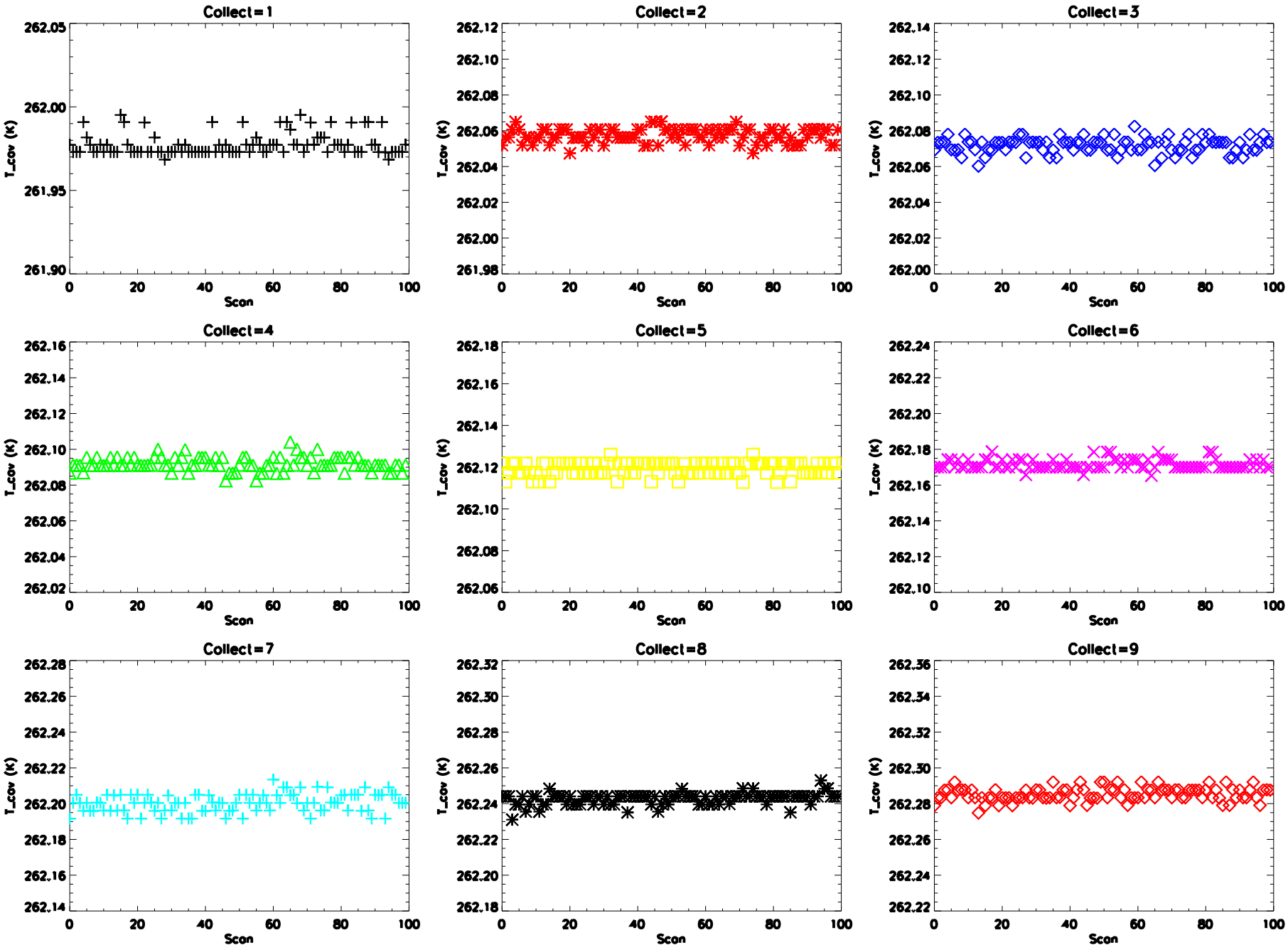

T_obc vs Time
293.2
293.0
292.8
292.6
292.4
292.2
292.0
T_obc (K)
−200
0
200
400
600
800
1000
Time (min)


T_rta vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_rta (K)
Scan

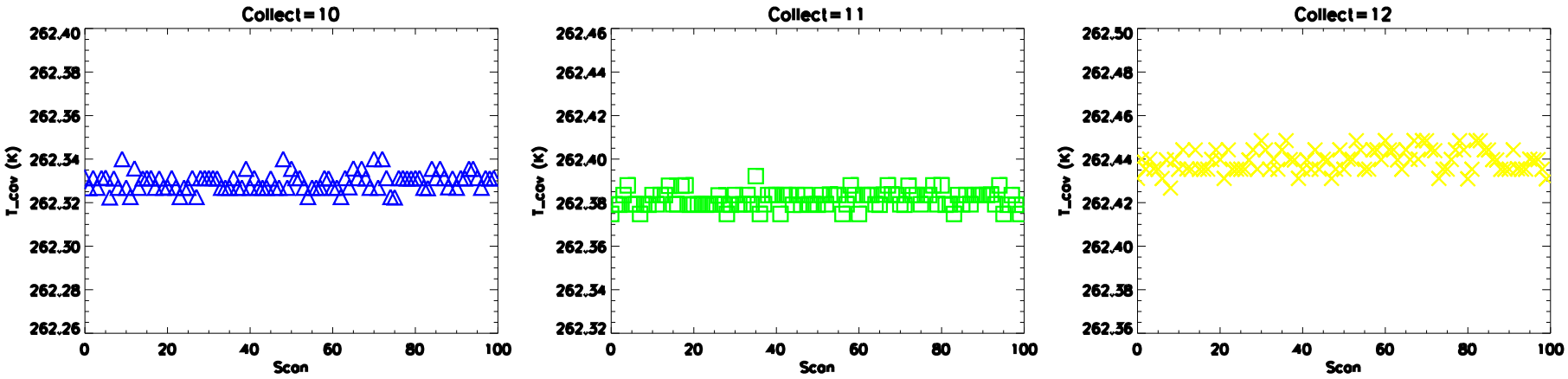
T_rta vs Scan


Collect = 10
T_rta (K)
258.16
258.14
258.12
258.10
258.08
258.06
258.04
258.02
0
20
40
60
80
100
Scan
Collect = 11
T_rta (K)
258.20
258.18
258.16
258.14
258.12
258.10
258.08
258.06
0
20
40
60
80
100
Scan
Collect = 12
T_rta (K)
258.26
258.24
258.22
258.20
258.18
258.16
258.14
258.12
0
20
40
60
80
100
Scan

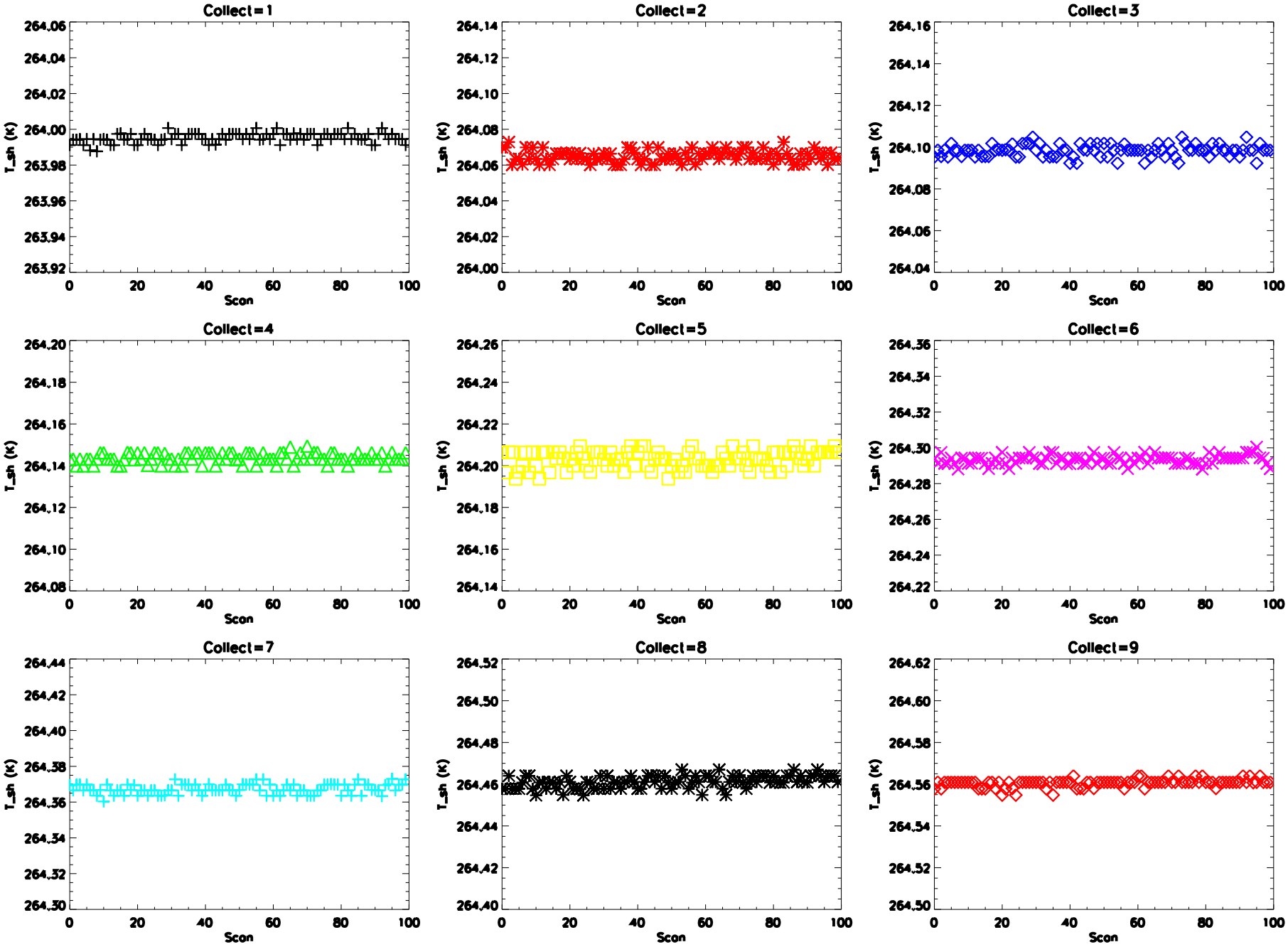
T_cav vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_cav (K)
Scan

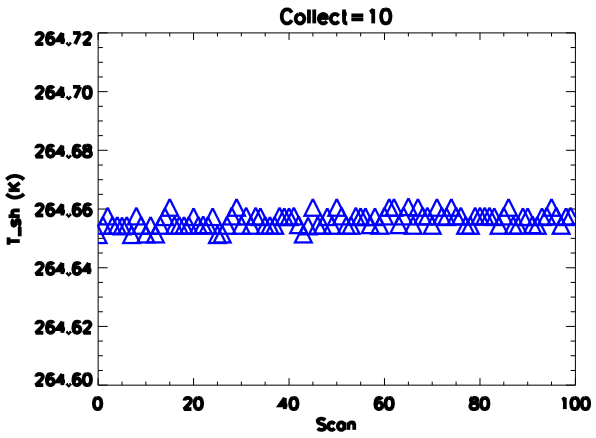
T_cav vs Scan

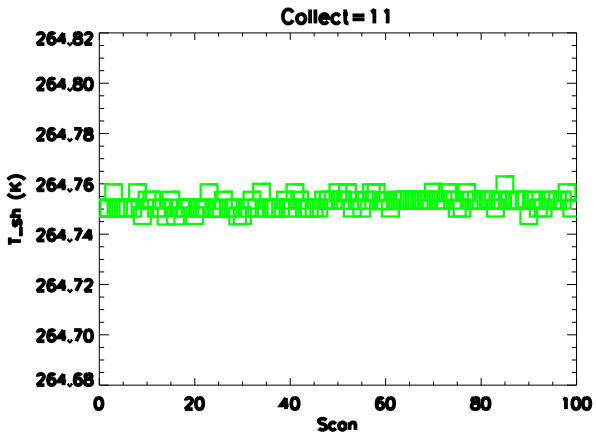

Collect = 10
T_cav (K)
262.40
262.38
262.36
262.34
262.32
262.30
262.28
262.26
0
20
40
60
80
100
Scan
Collect = 11
T_cav (K)
262.46
262.44
262.42
262.40
262.38
262.36
262.34
262.32
0
20
40
60
80
100
Scan
Collect = 12
T_cav (K)
262.50
262.48
262.46
262.44
262.42
262.40
262.38
262.36
0
20
40
60
80
100
Scan

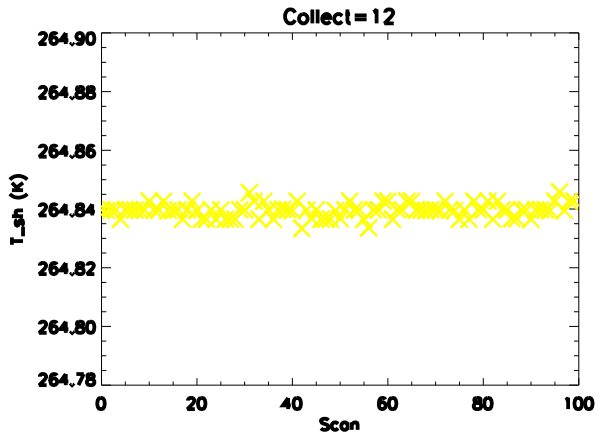
T_sh vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_sh (K)
Scan

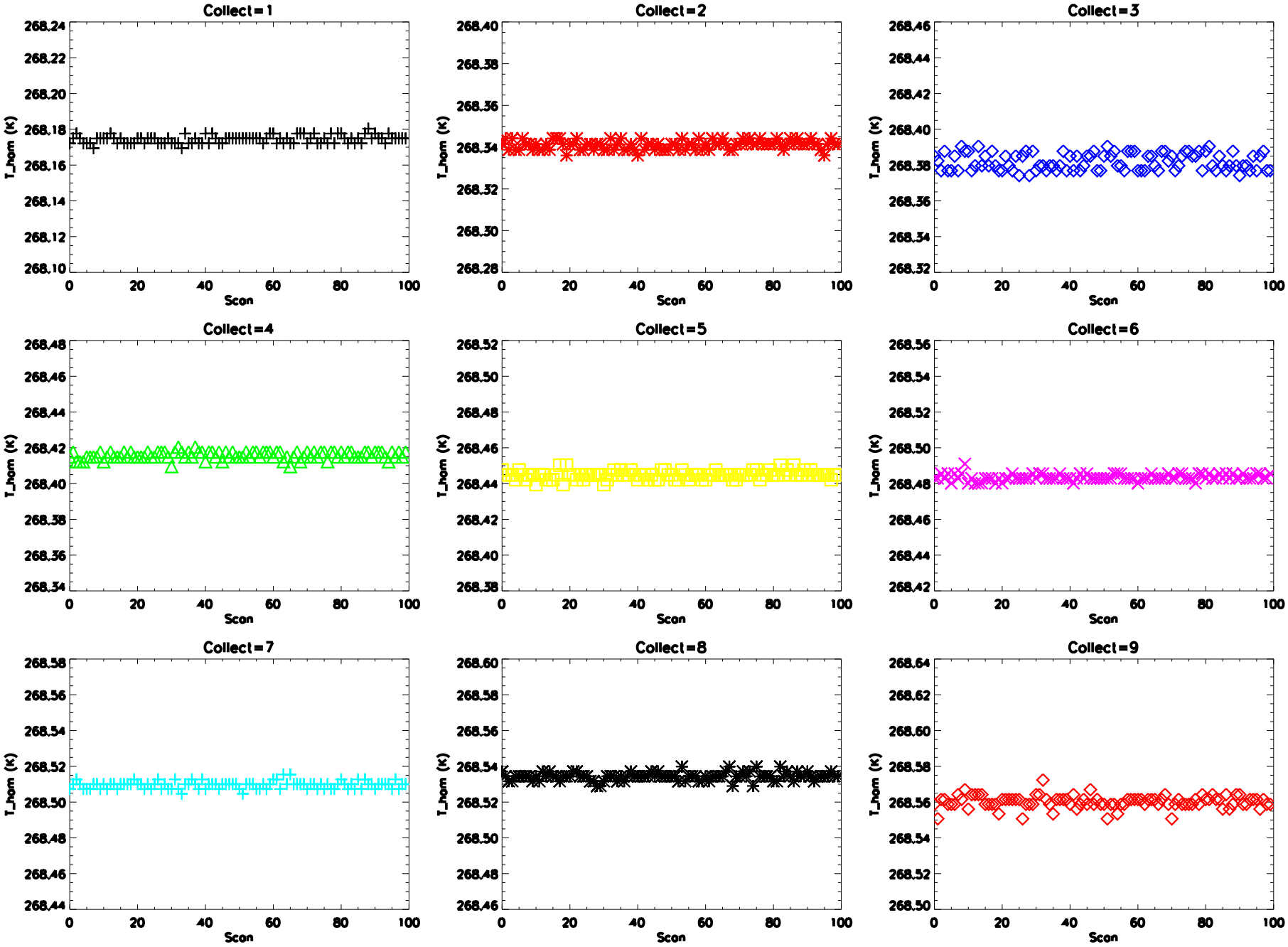
T_sh vs Scan


Collect = 10
T_sh (K)
264.72
264.70
264.68
264.66
264.64
264.62
264.60
0
20
40
60
80
100
Scan

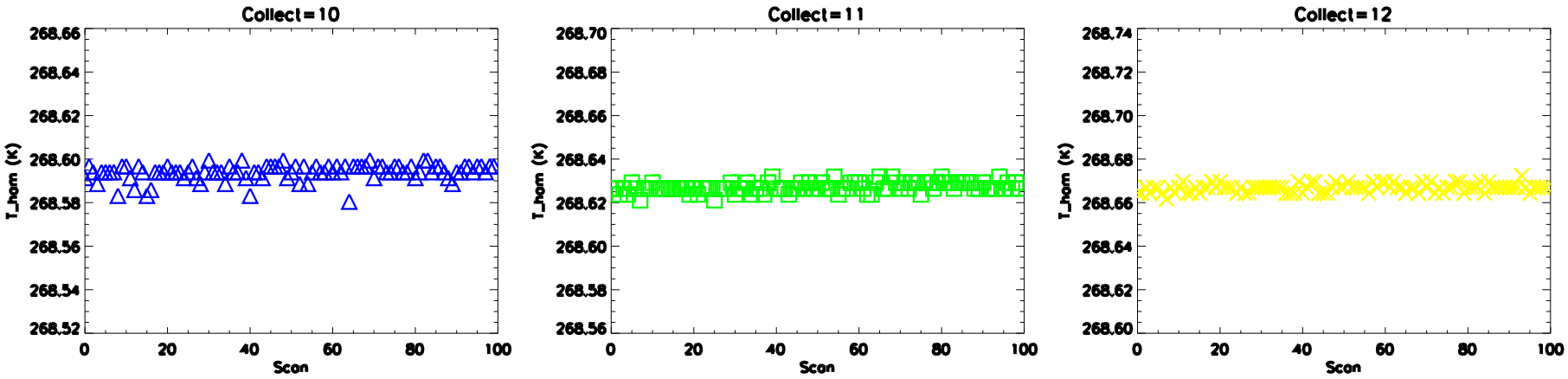

Collect = 11
T_sh (K)
264.82
264.80
264.78
264.76
264.74
264.72
264.70
264.68
0
20
40
60
80
100
Scan

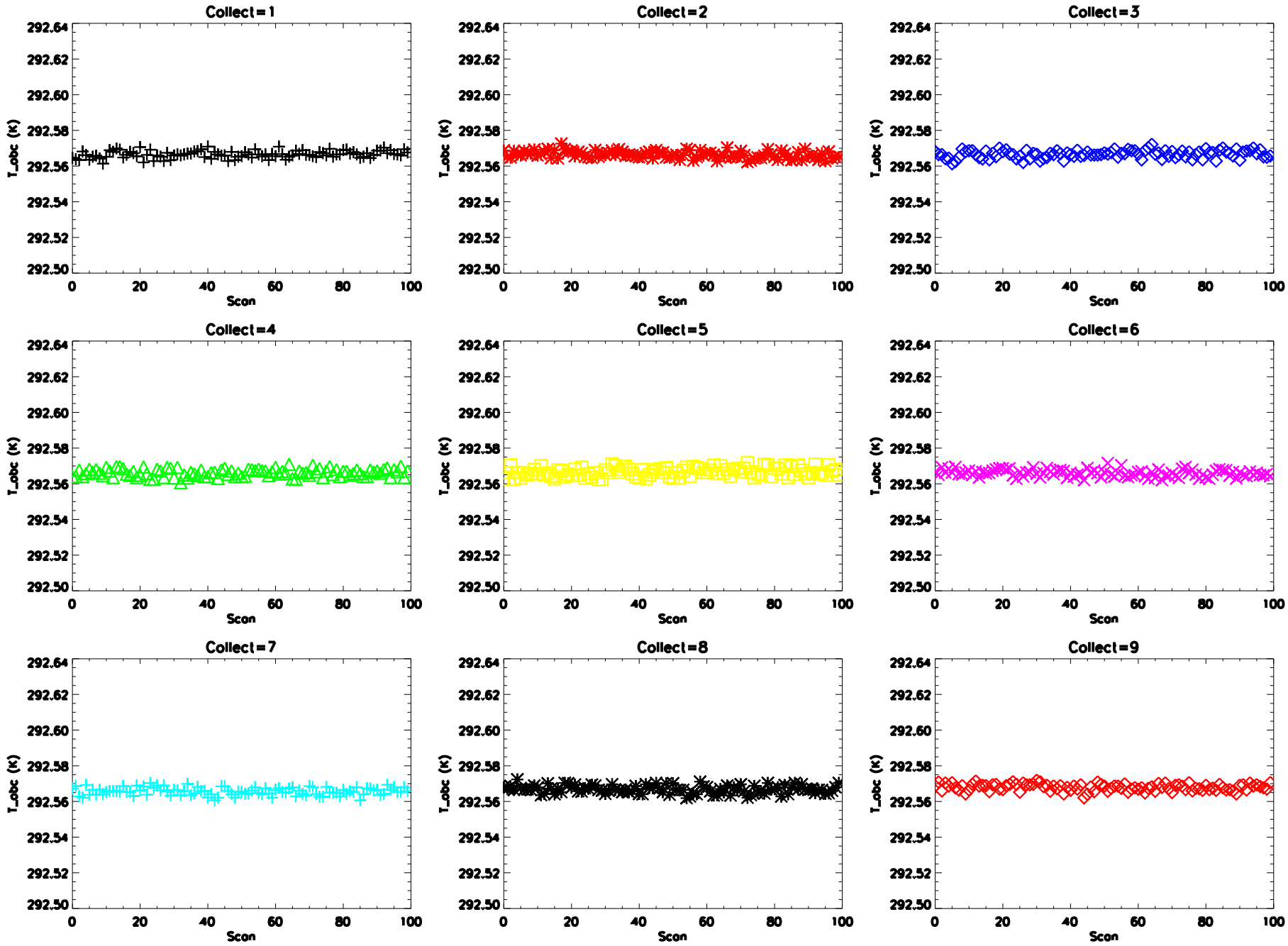

Collect = 12
T_sh (K)
264.90
264.88
264.86
264.84
264.82
264.80
264.78
0
20
40
60
80
100
Scan

T_ham vs Scan

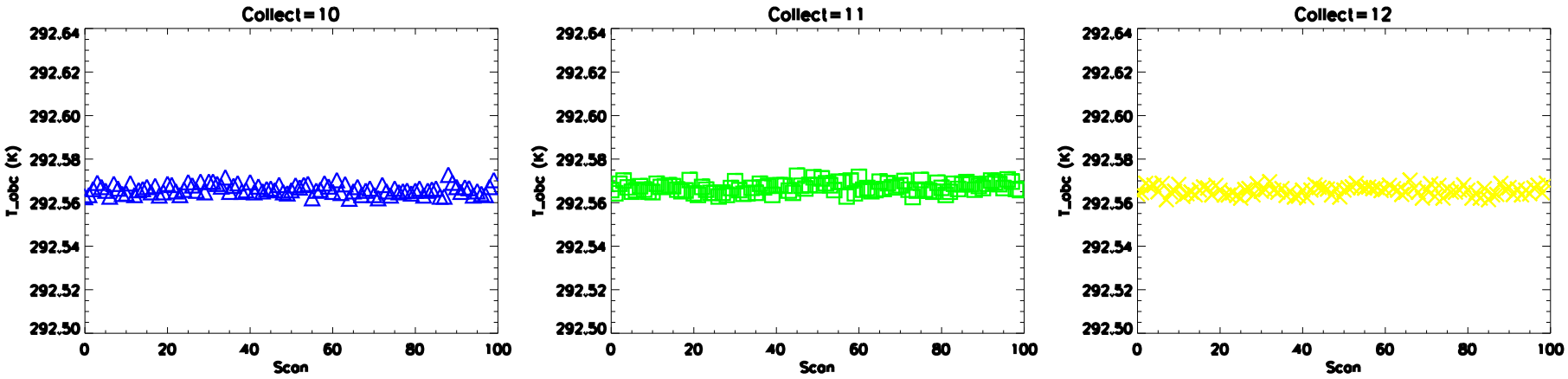

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_ham (K)
Scan

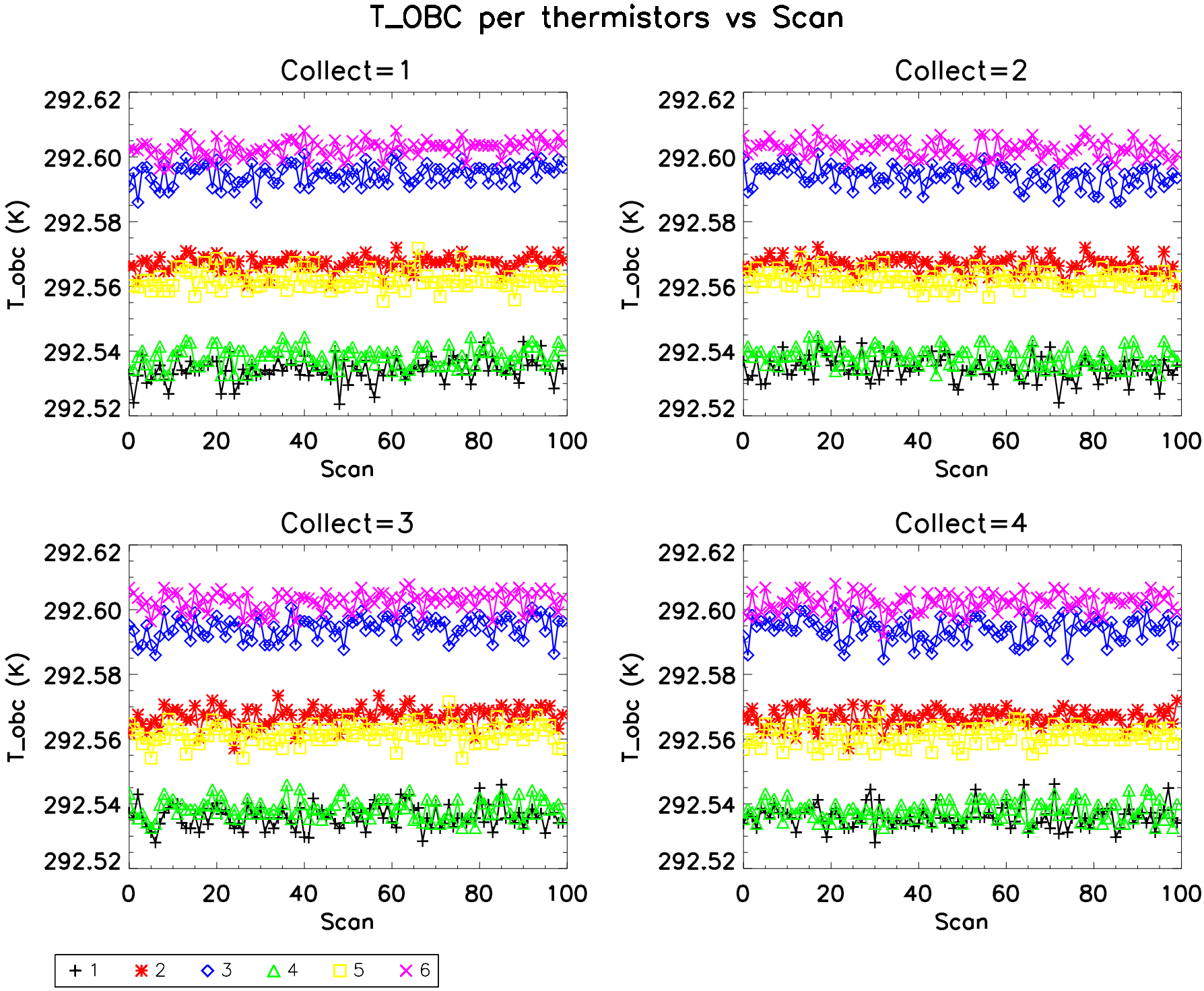
T_ham vs Scan

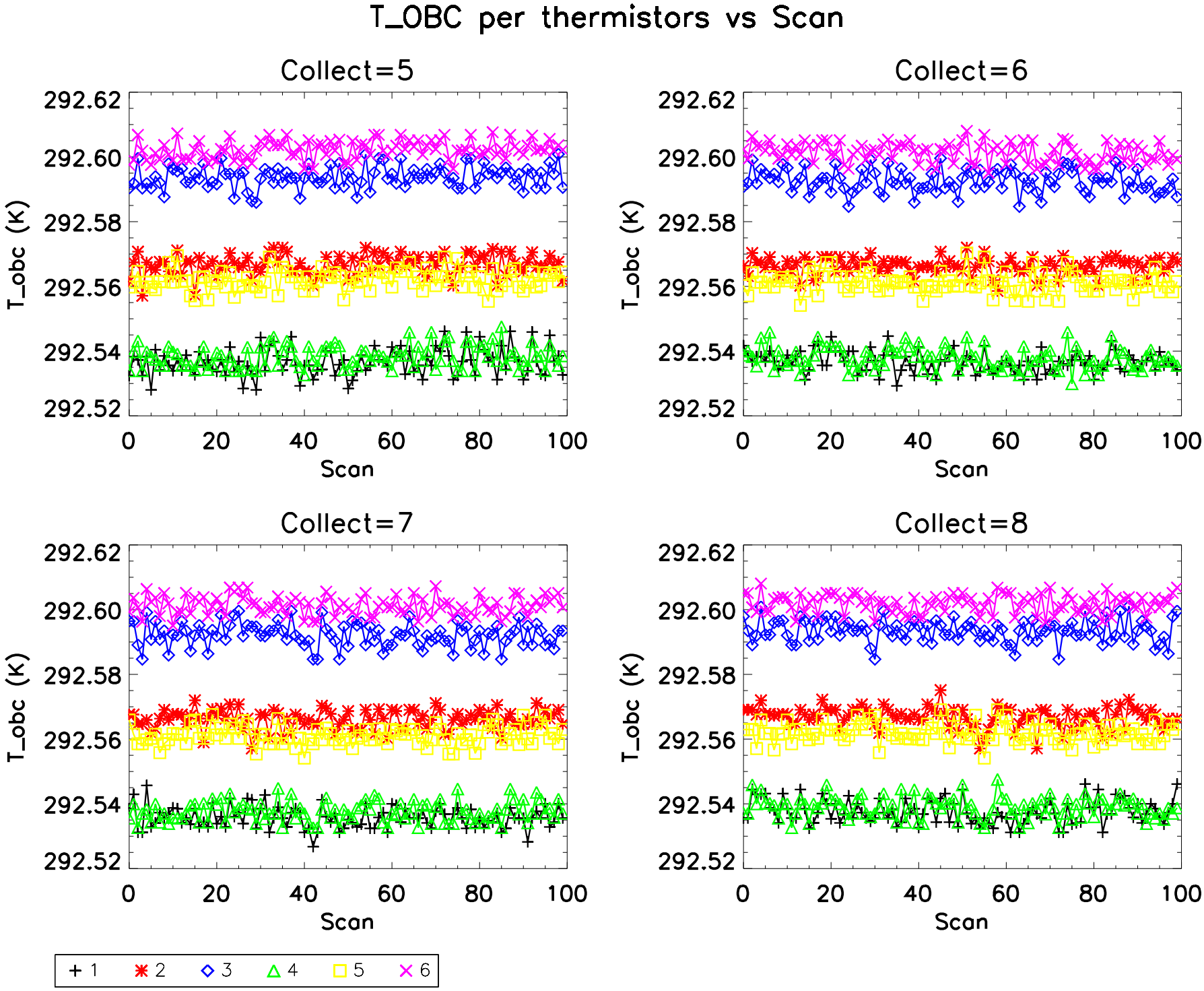

Collect = 10
T_ham (K)
268.66
268.64
268.62
268.60
268.58
268.56
268.54
268.52
0
20
40
60
80
100
Scan
Collect = 11
T_ham (K)
268.70
268.68
268.66
268.64
268.62
268.60
268.58
268.56
0
20
40
60
80
100
Scan
Collect = 12
T_ham (K)
268.74
268.72
268.70
268.68
268.66
268.64
268.62
268.60
0
20
40
60
80
100
Scan

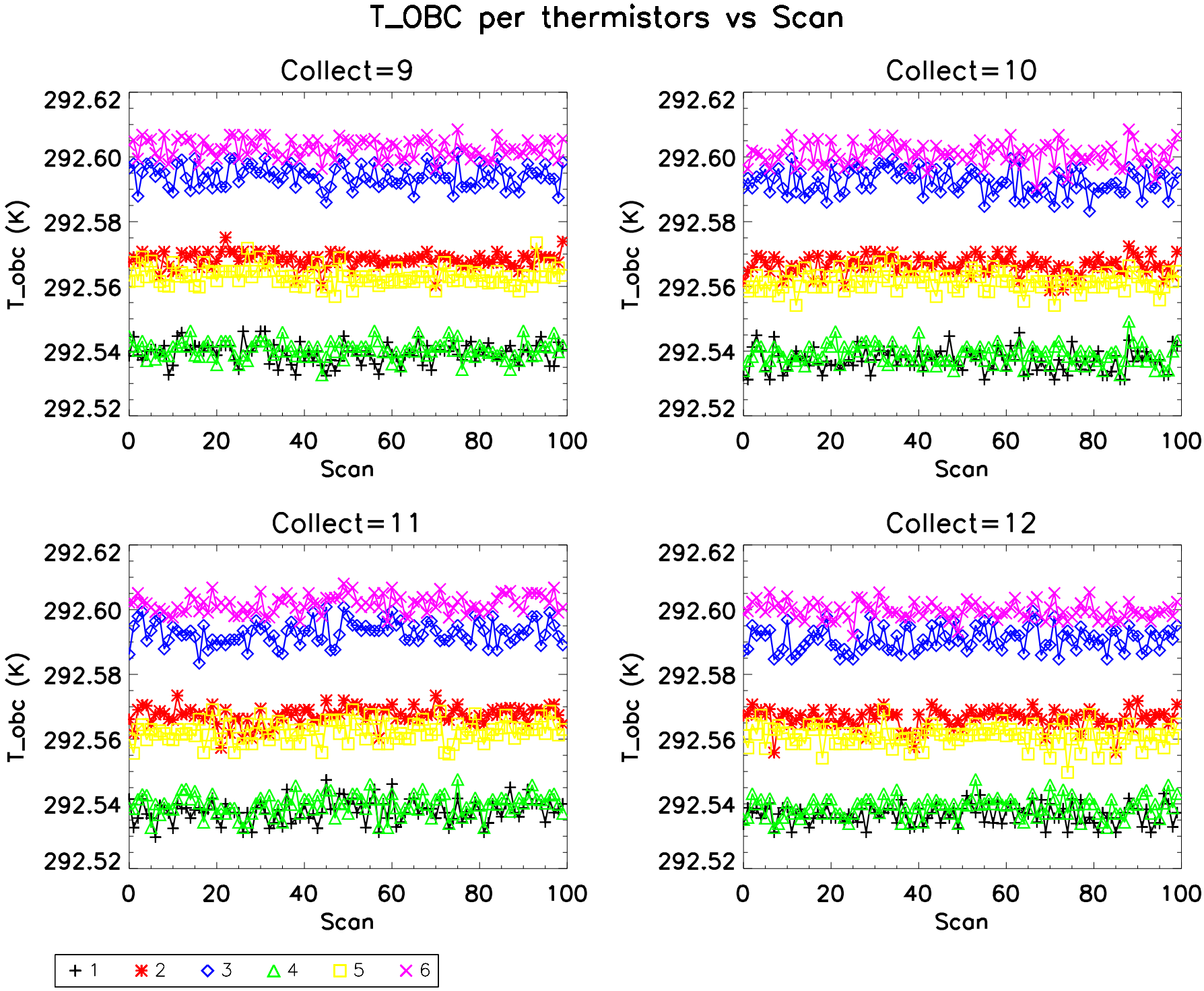

T_obc vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
292.50
0
20
40
60
80
100

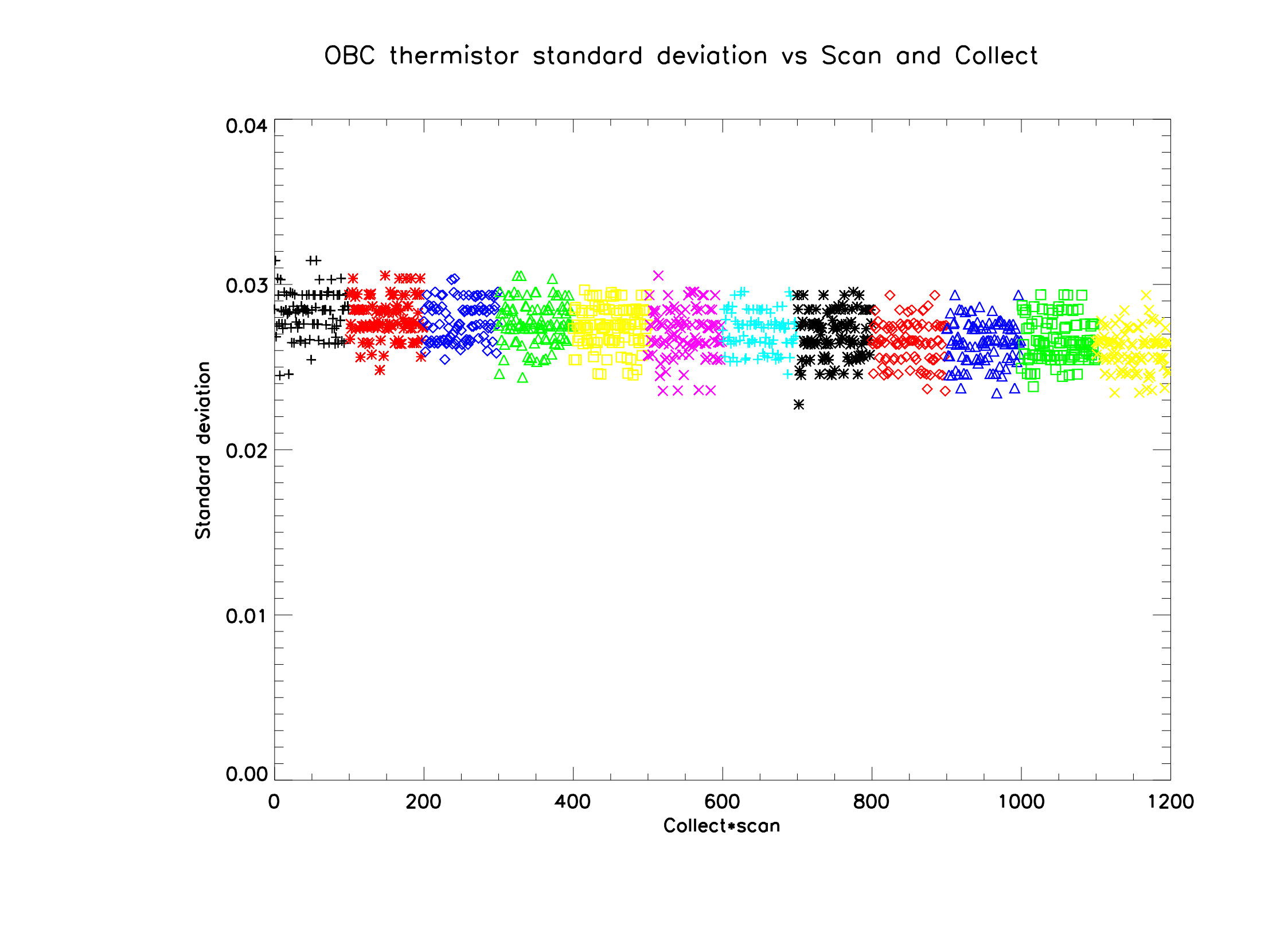
T_obc vs Scan

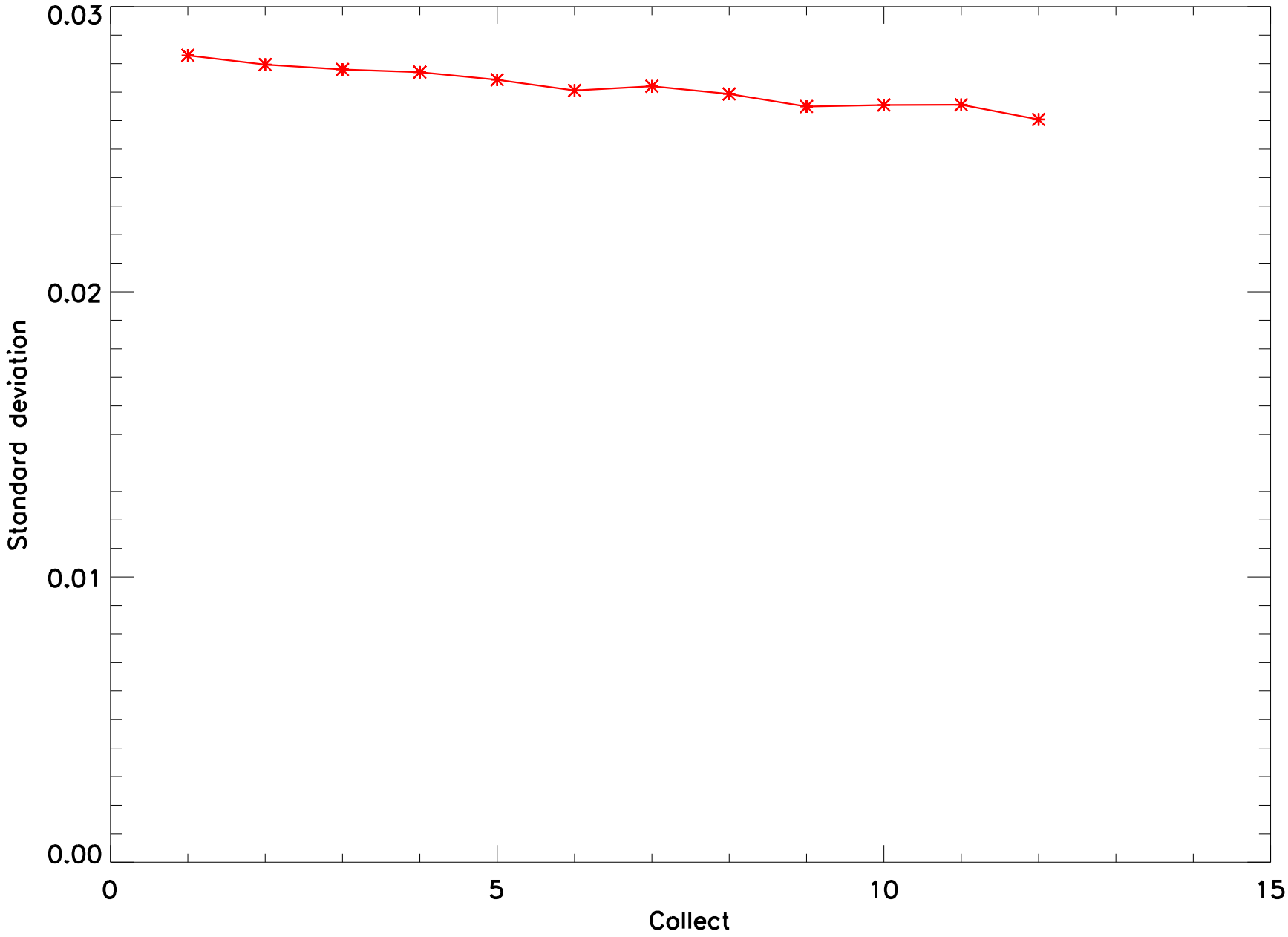

Collect = 10
Collect = 11
Collect = 12
T_obc (K)
Scan
292.64
292.62
292.60
292.58
292.56
292.54
292.52
292.50
0
20
40
60
80
100

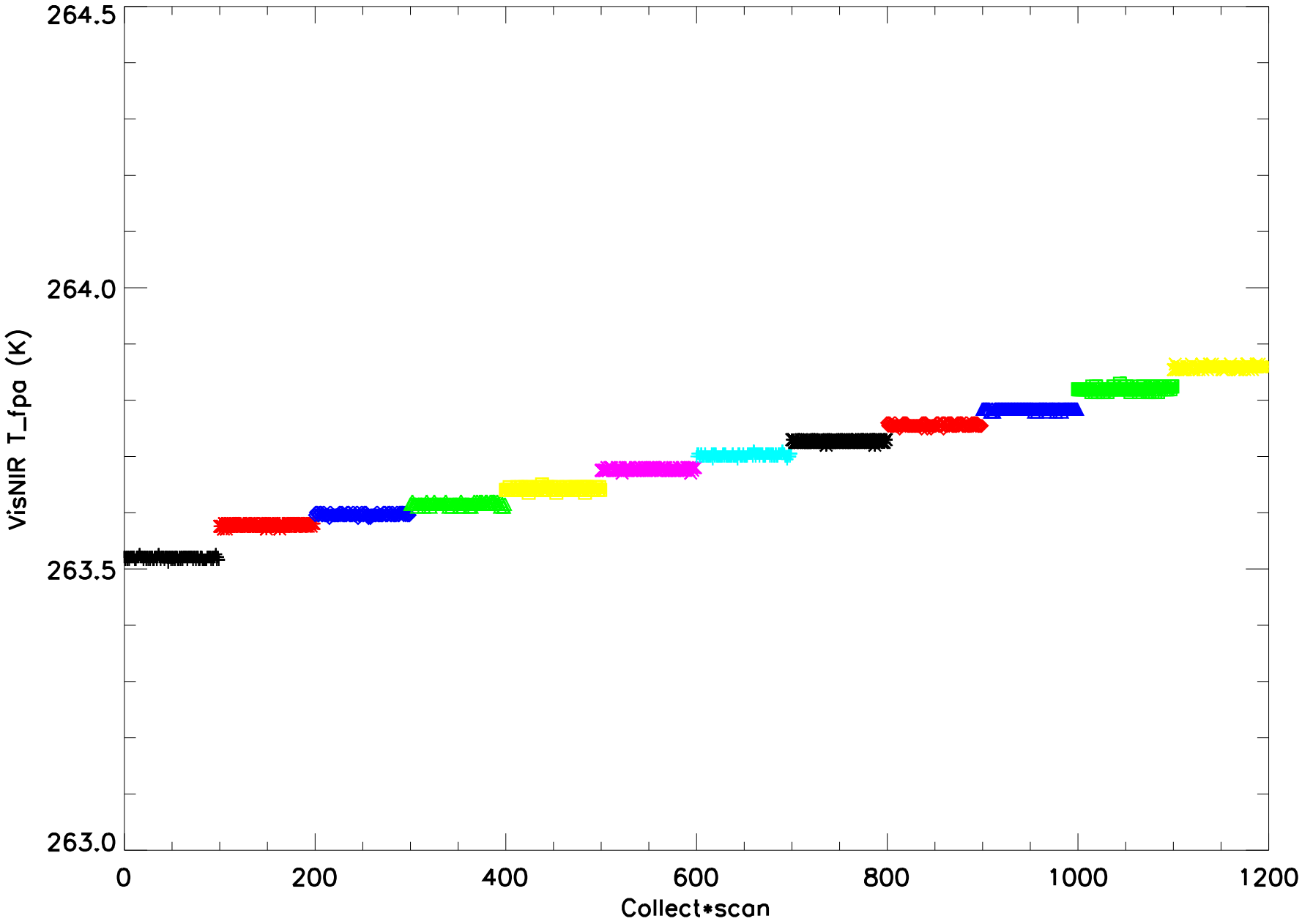

T_OBC per thermistors vs Scan
Collect=1
Collect=2
Collect=3
Collect=4
T_obc (K)
Scan
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100
1
2
3
4
5
6

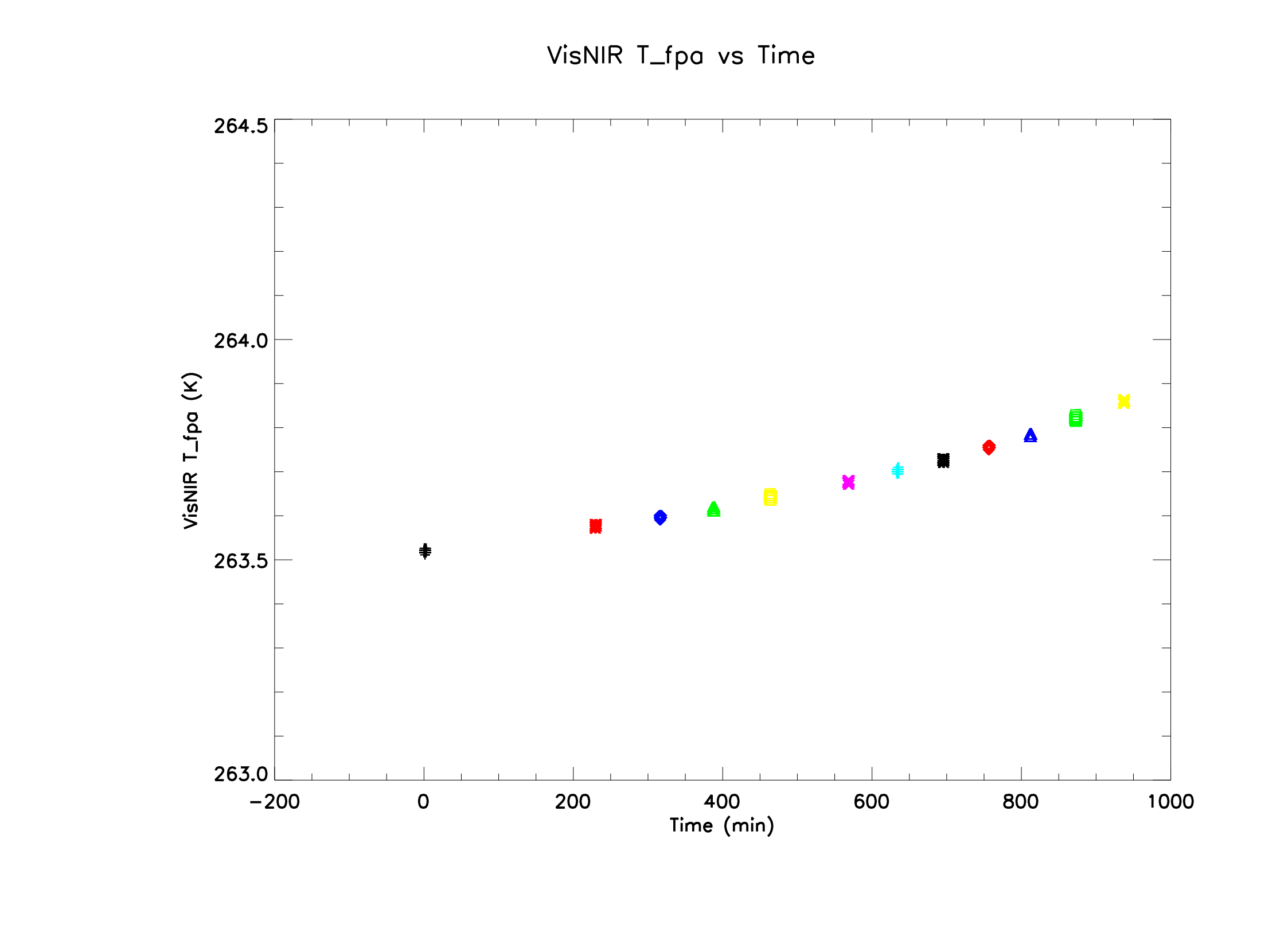

T_OBC per thermistors vs Scan
Collect=5
Collect=6
Collect=7
Collect=8
T_obc (K)
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100
Scan
1
2
3
4
5
6

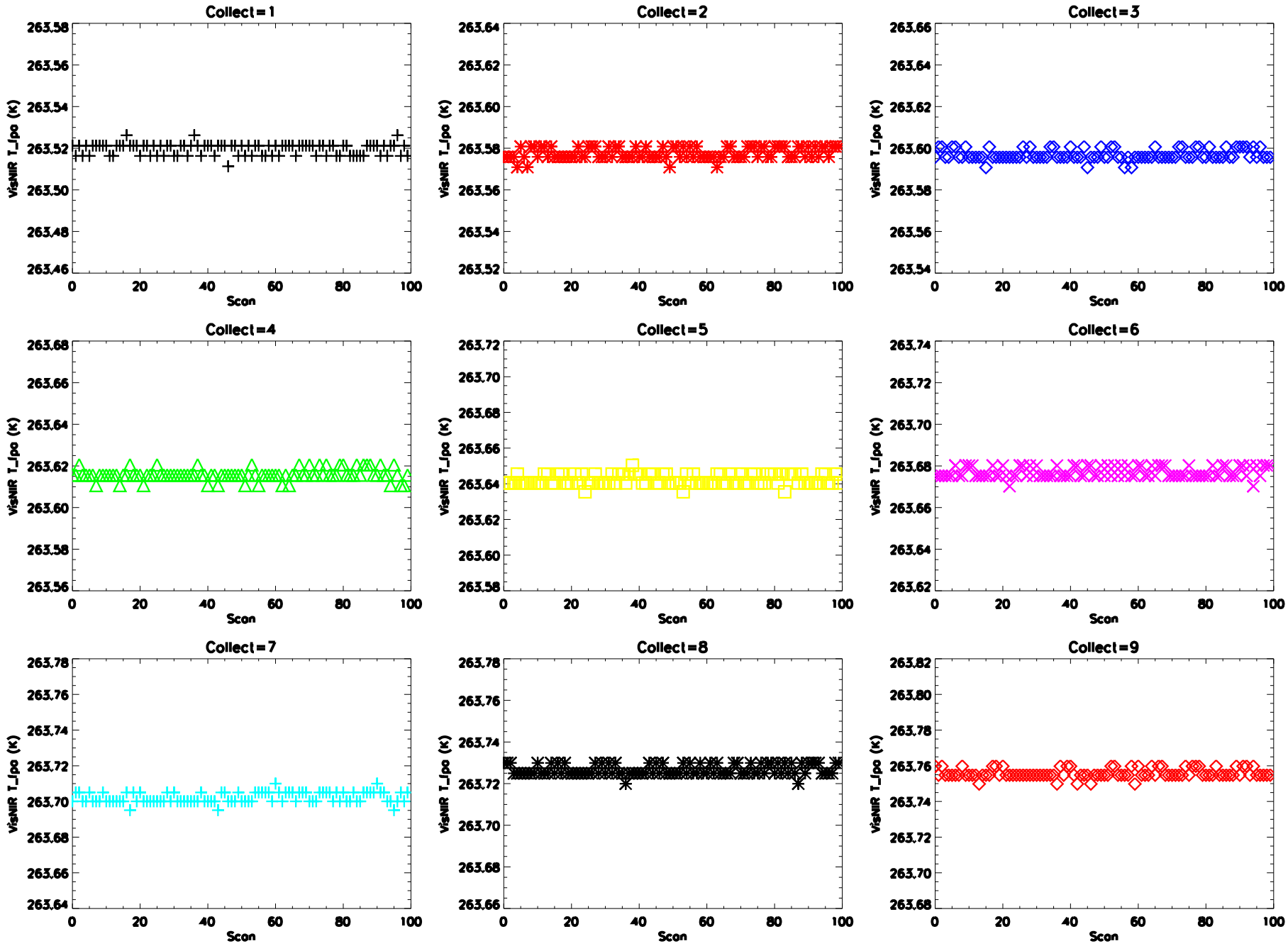

T_OBC per thermistors vs Scan
Collect=9
Collect=10
Collect=11
Collect=12
T_obc (K)
Scan
292.62
292.60
292.58
292.56
292.54
292.52
0
20
40
60
80
100
1
2
3
4
5
6


OBC thermistor standard deviation vs Scan and Collect
Standard deviation
0.04
0.03
0.02
0.01
0.00
0
200
400
600
800
1000
1200
Collect*scan

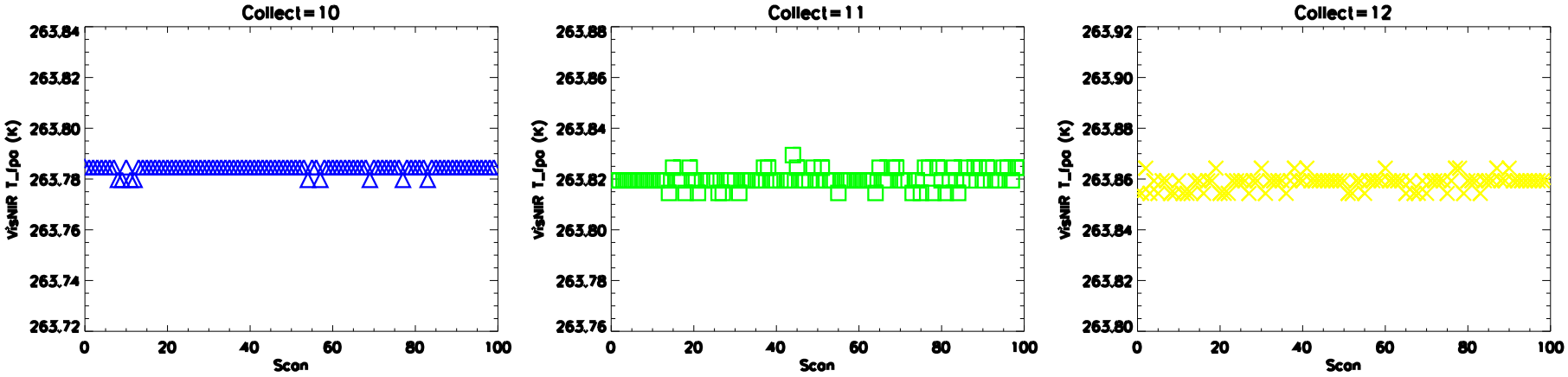

OBC thermistor standard deviation vs Collect
0.03
0.02
0.01
0.00
Standard deviation
0
5
10
15
Collect

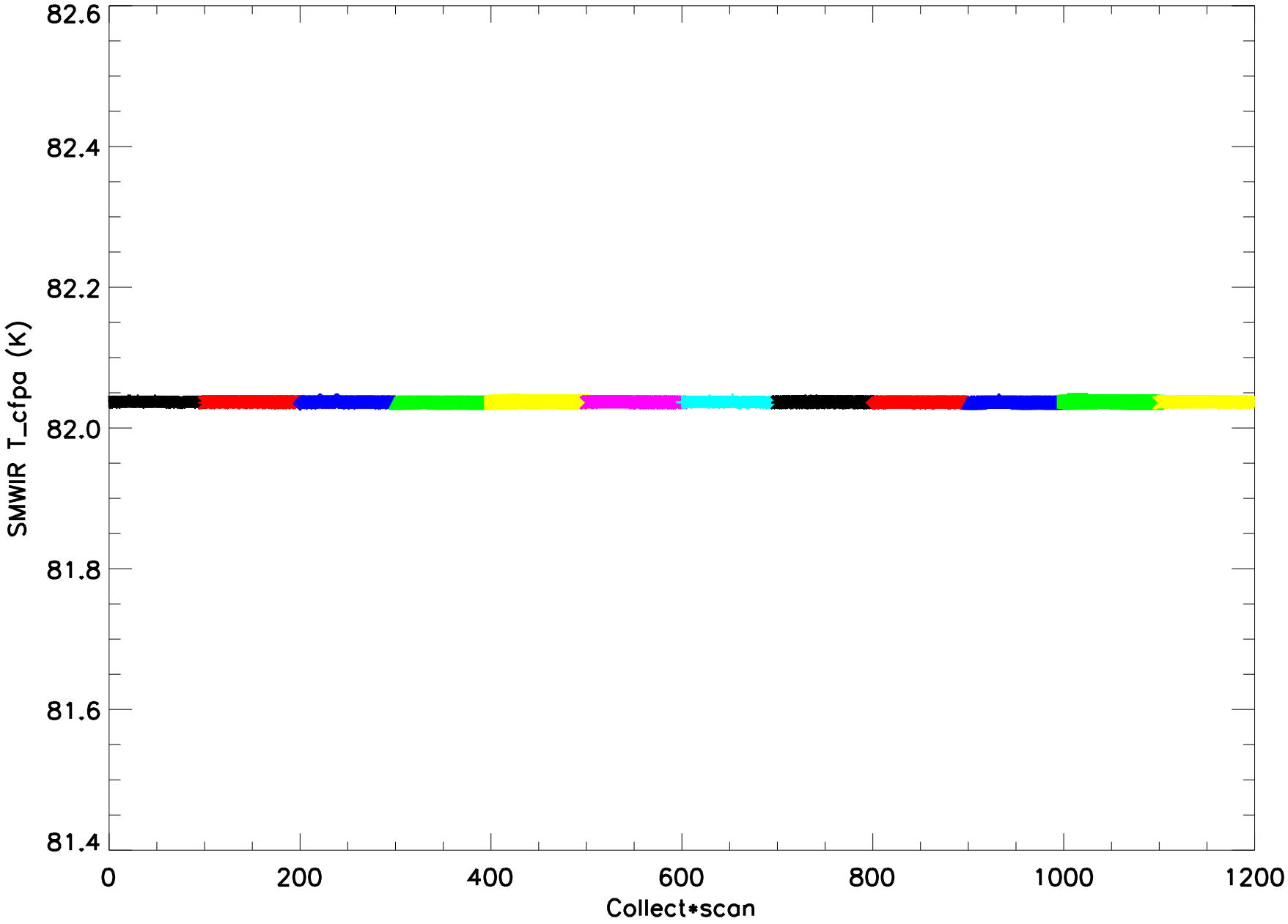

VisNIR T_fpa vs Scan and Collect
264.5
264.0
263.5
263.0
VisNIR T_fpa (K)
0
200
400
600
800
1000
1200
Collect*scan

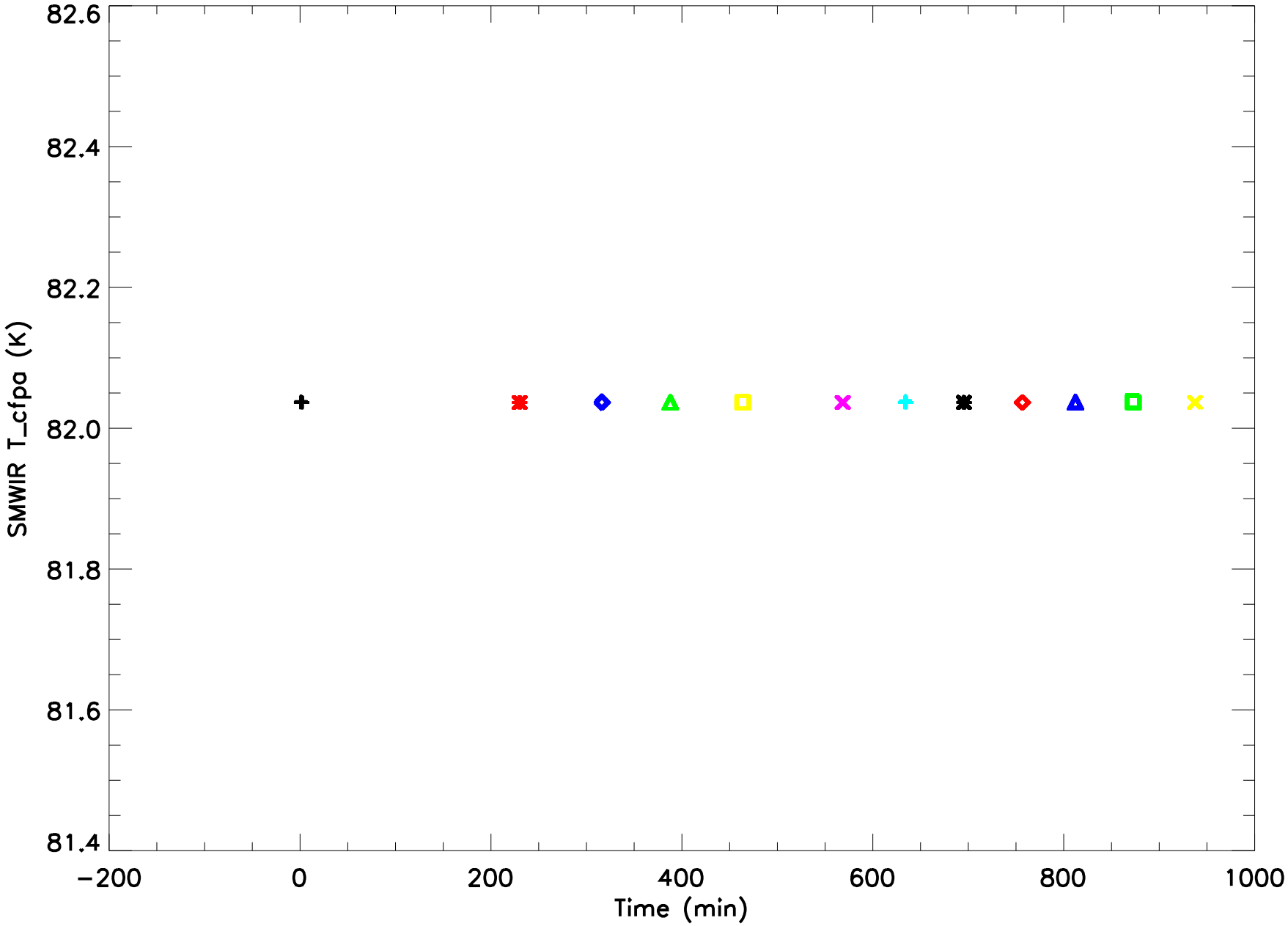

VisNIR T_fpa vs Time
VisNIR T_fpa (K)
264.5
264.0
263.5
263.0
−200
0
200
400
600
800
1000
Time (min)

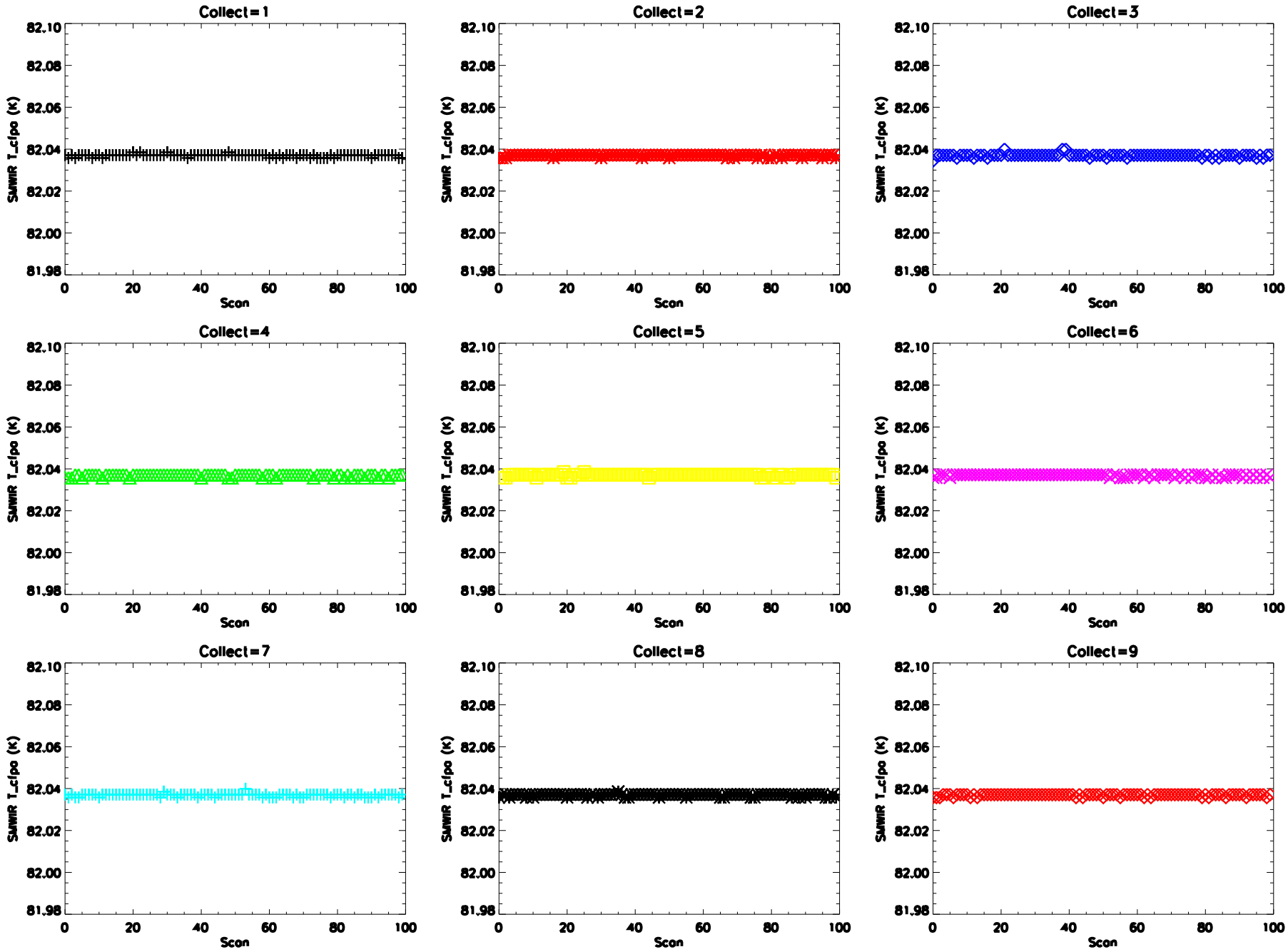

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
ViSNIR T_fpo (K)
Scan

VisNIR T_fpa vs Scan

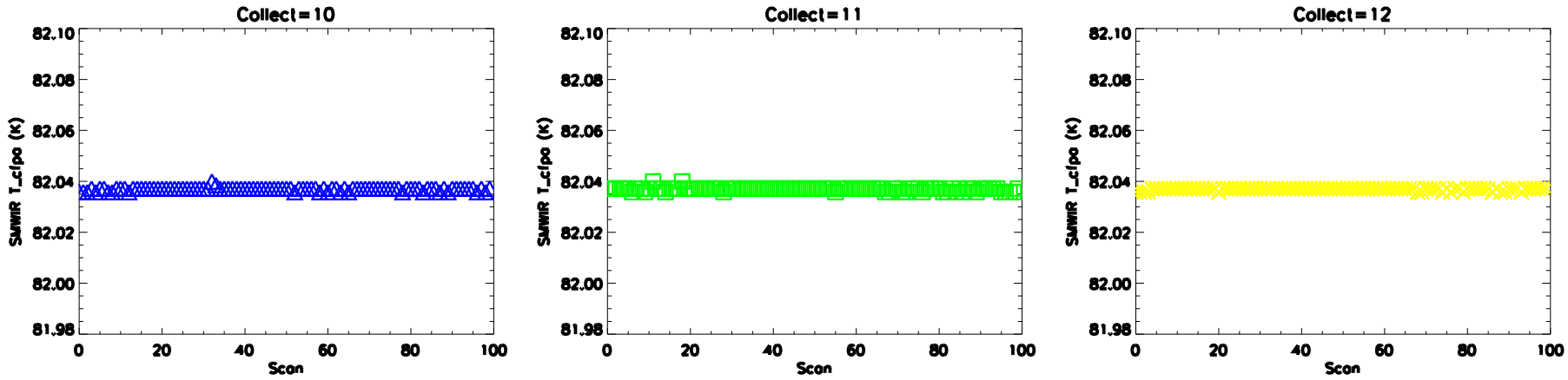


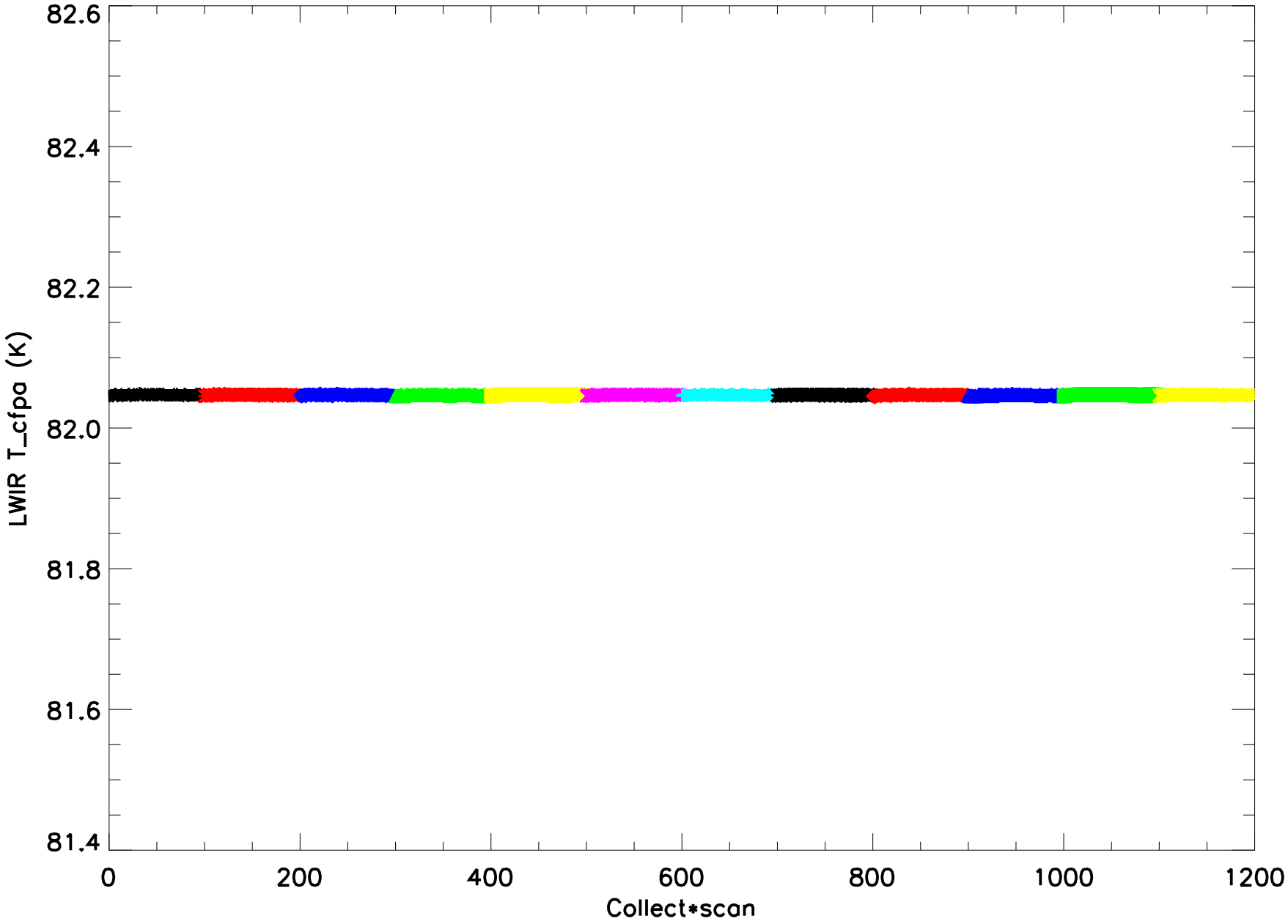

SMWIR T_cfpa vs Scan and Collect
82.6
82.4
82.2
82.0
81.8
81.6
81.4
SMWIR T_cfpa (K)
0
200
400
600
800
1000
1200
Collect*scan

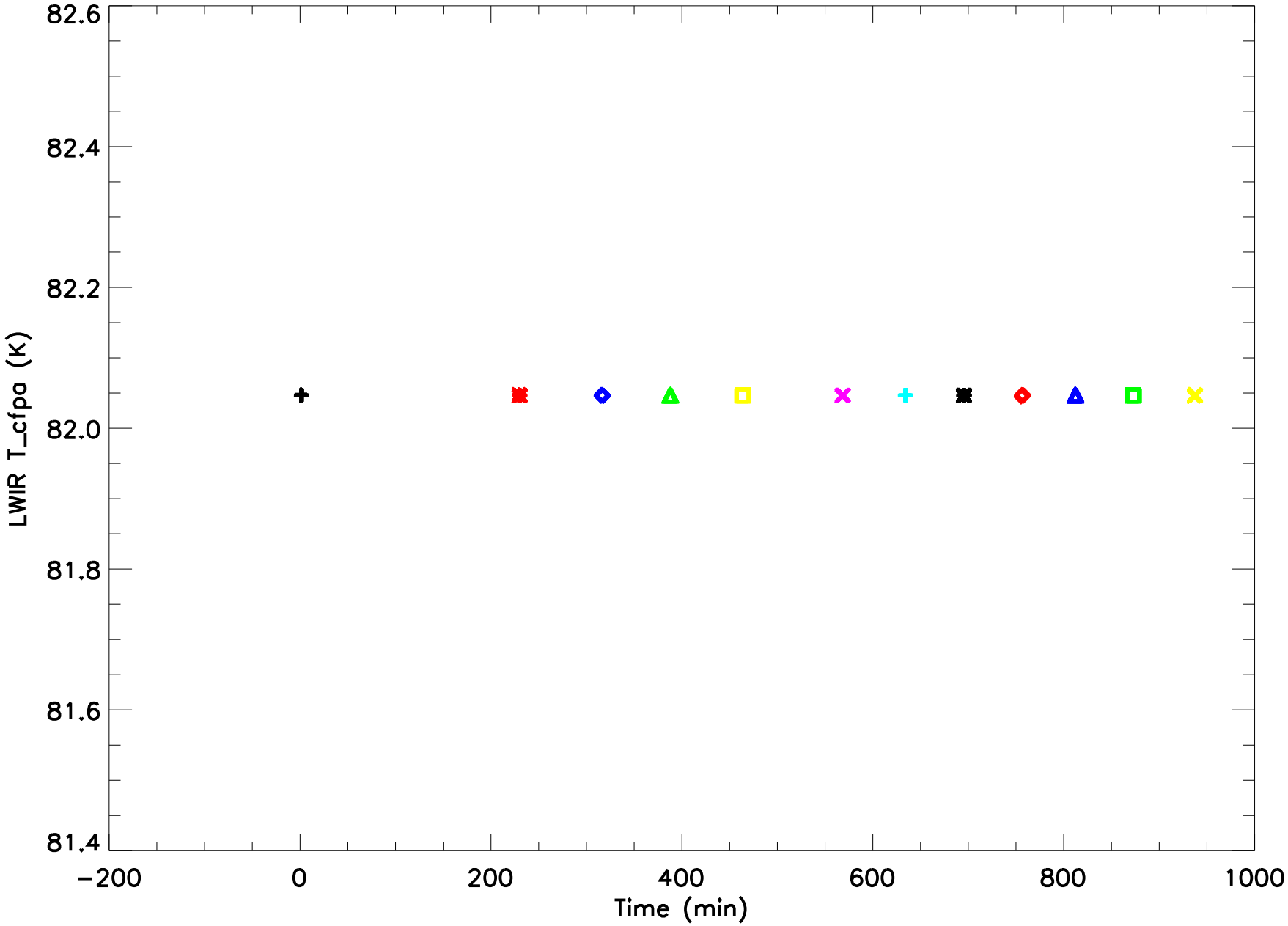

SMWIR T_cfpa vs Time
SMWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
−200
0
200
400
600
800
1000
Time (min)

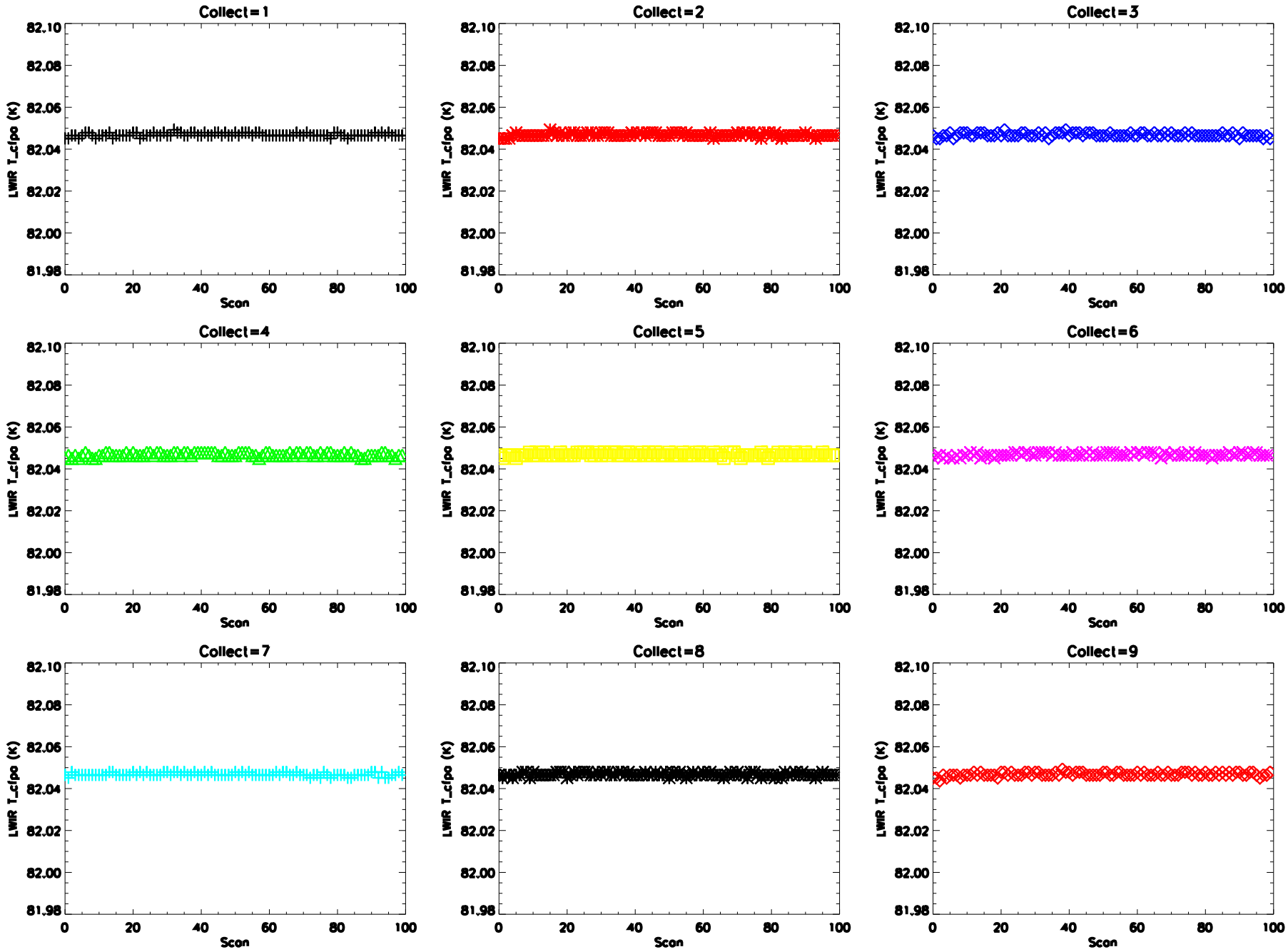

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SMWIR T_clpa (K)
Scan
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100

SMWIR T_cfpa vs Scan

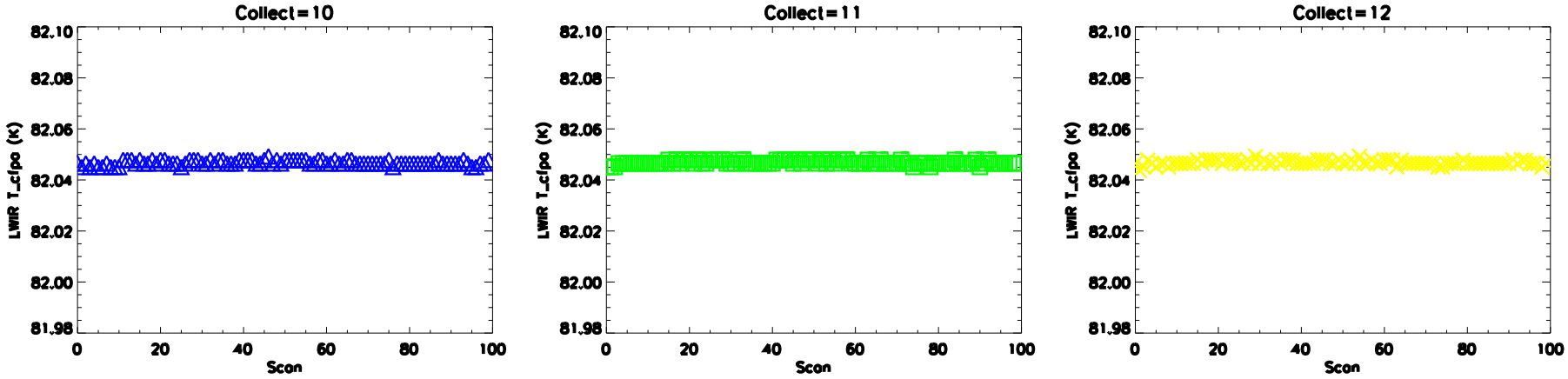


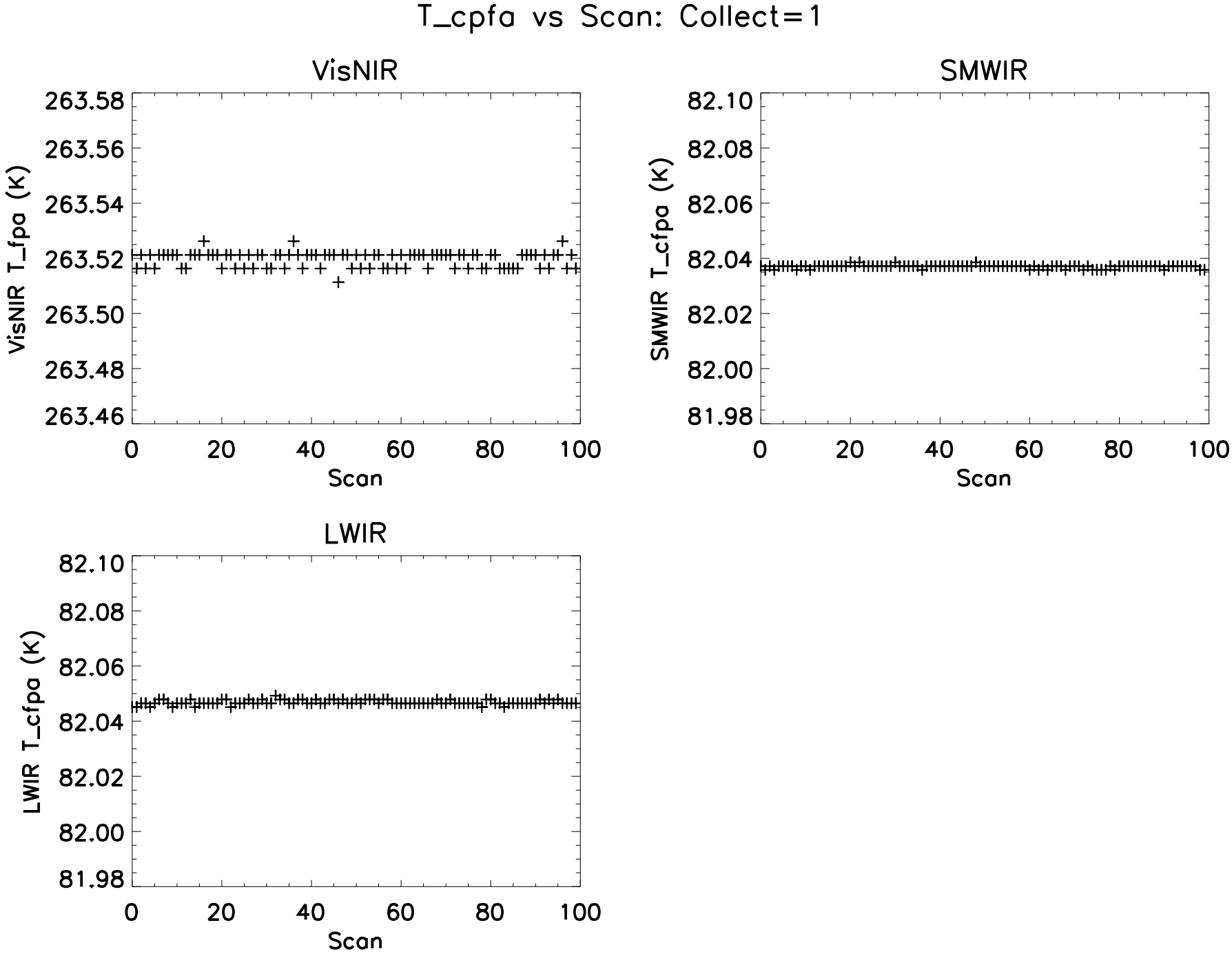

LWIR T_cfpa vs Scan and Collect
LWIR T_cfpa (K)
82.6
82.4
82.2
82.0
81.8
81.6
81.4
0
200
400
600
800
1000
1200
Collect*scan

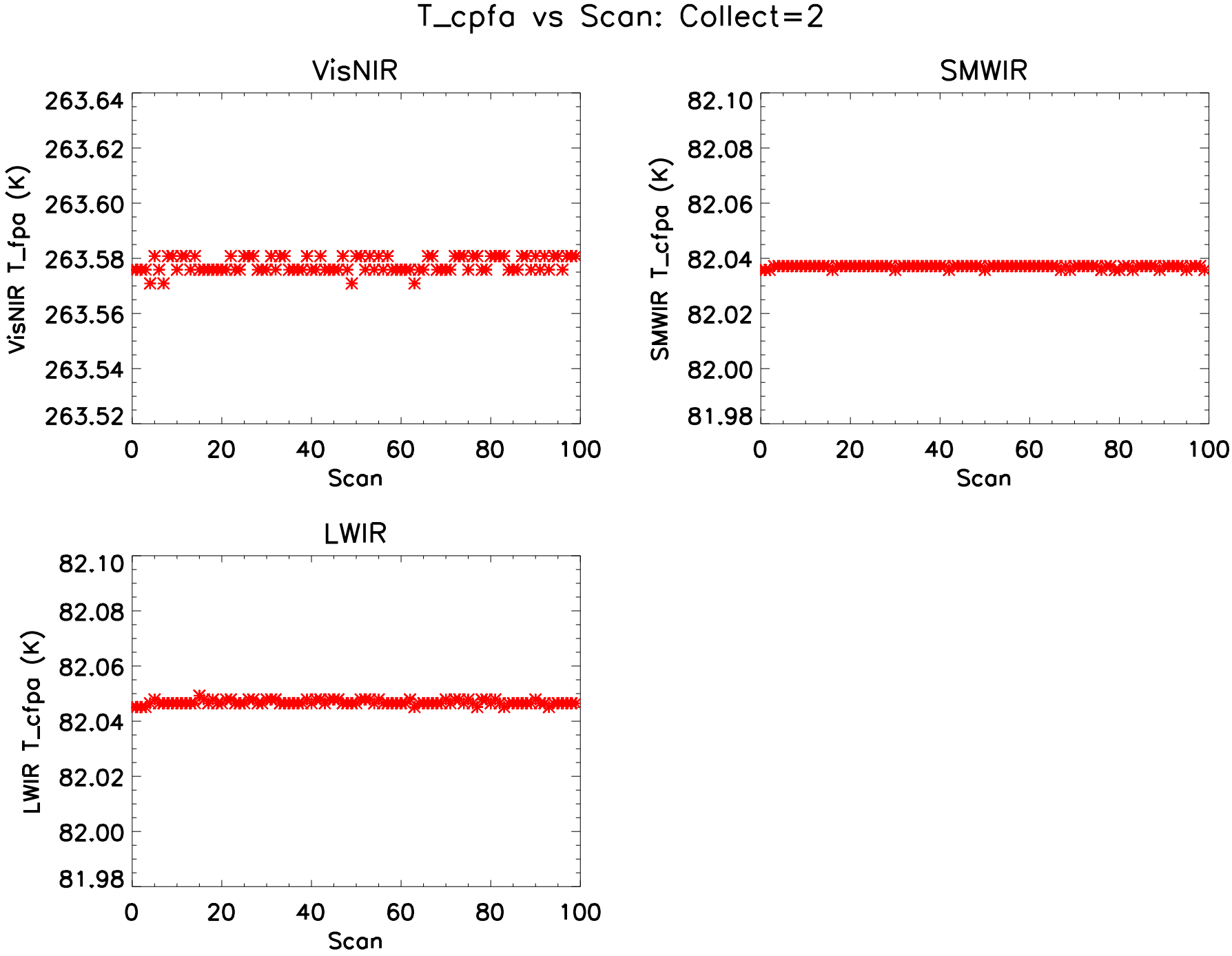

LWIR T_cfpa vs Time
82.6
82.4
82.2
82.0
81.8
81.6
81.4
LWIR T_cfpa (K)
−200
0
200
400
600
800
1000
Time (min)

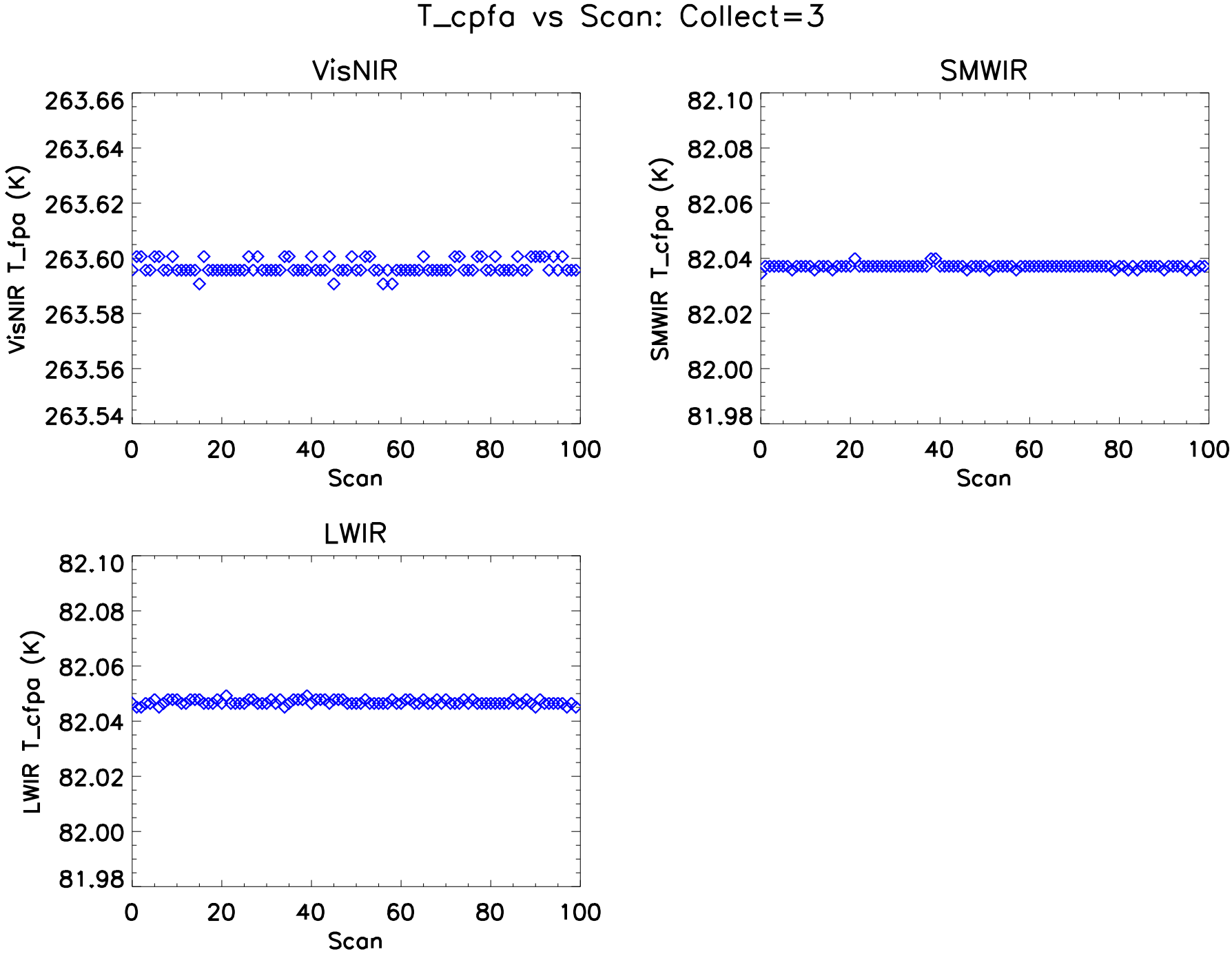

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
LWIR T_cfpa (K)
Scan
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100

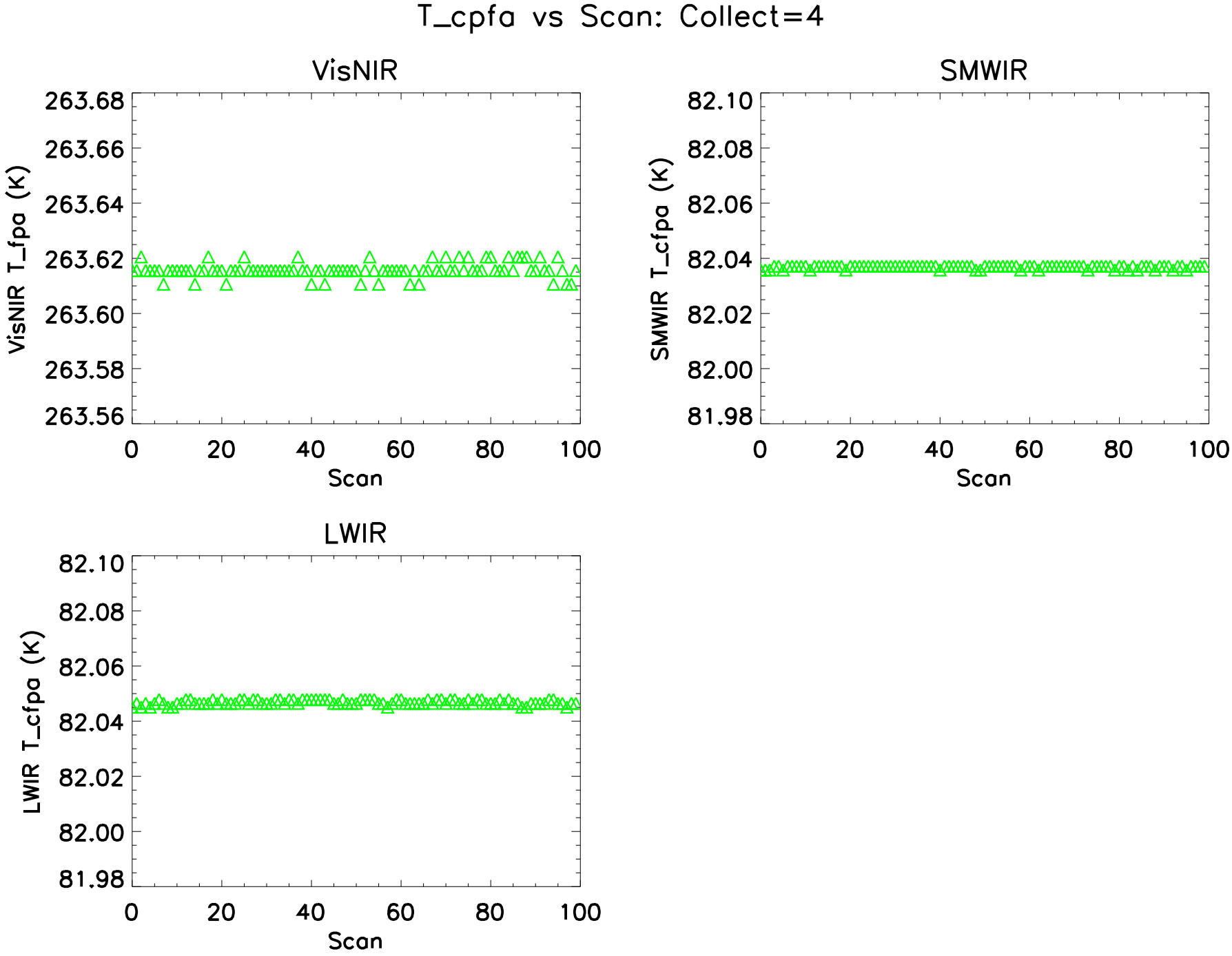
LWIR T_cfpa vs Scan

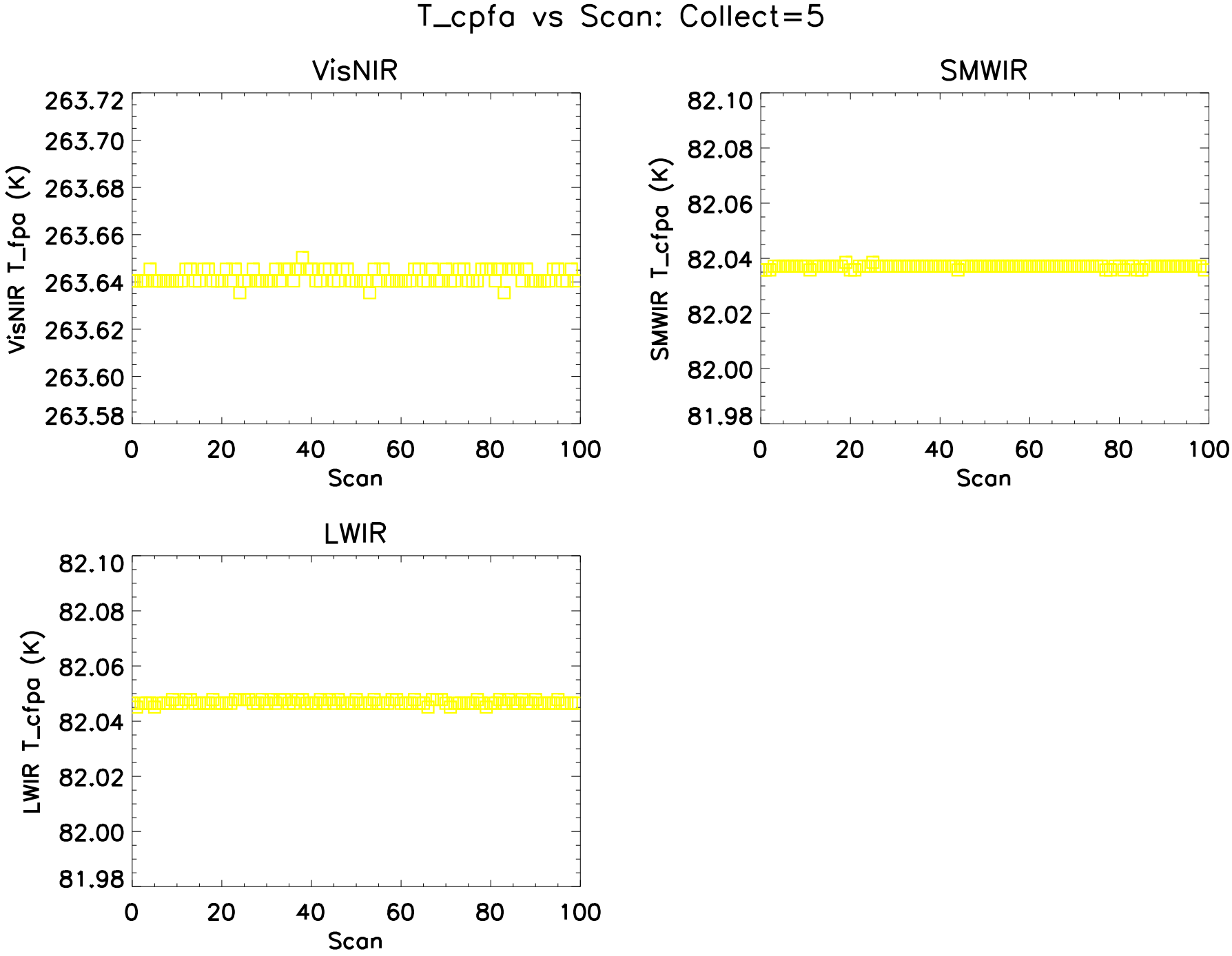


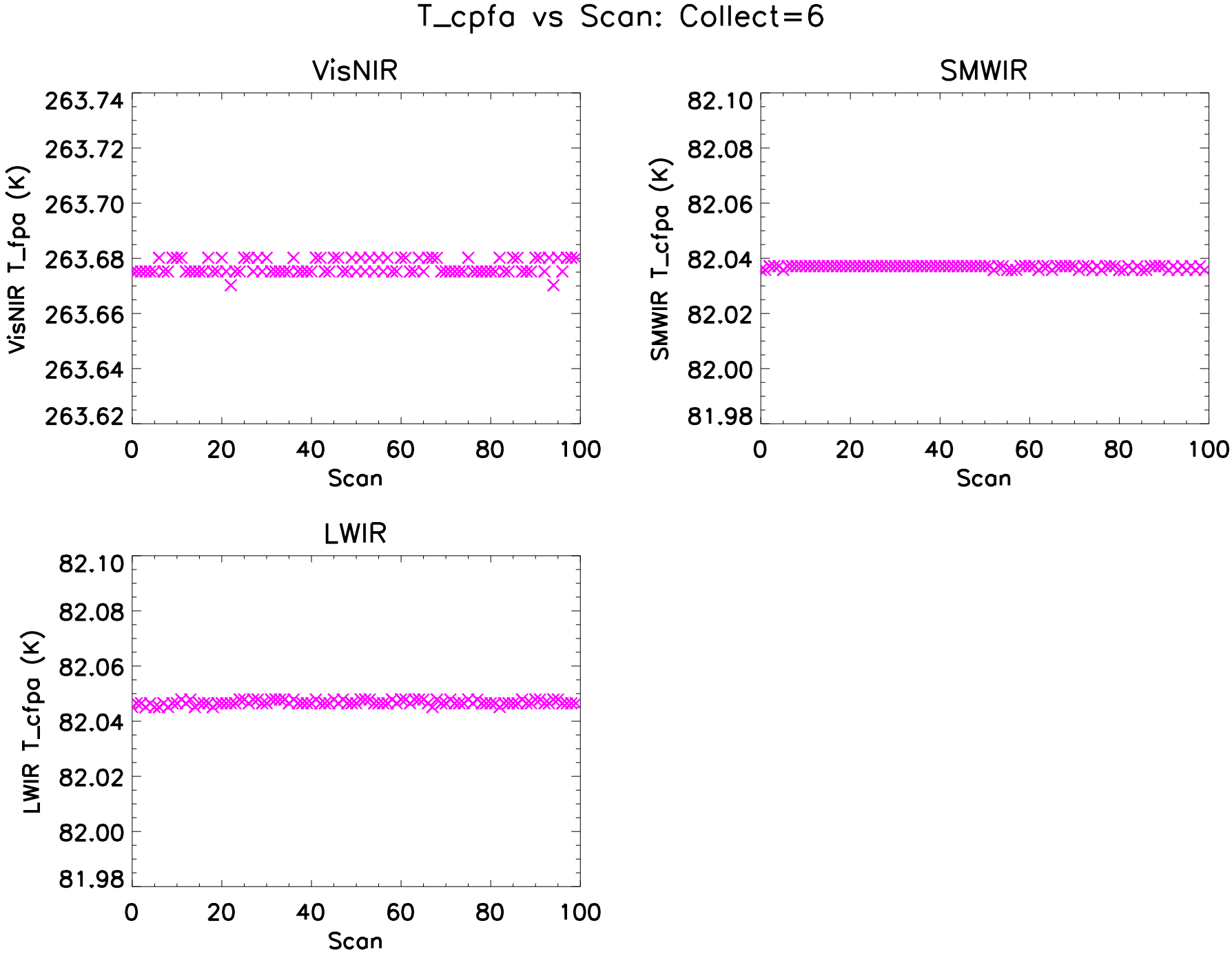

T_cpfa vs Scan: Collect=1
VisNIR
VisNIR T_fpa (K)
263.58
263.56
263.54
263.52
263.50
263.48
263.46
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

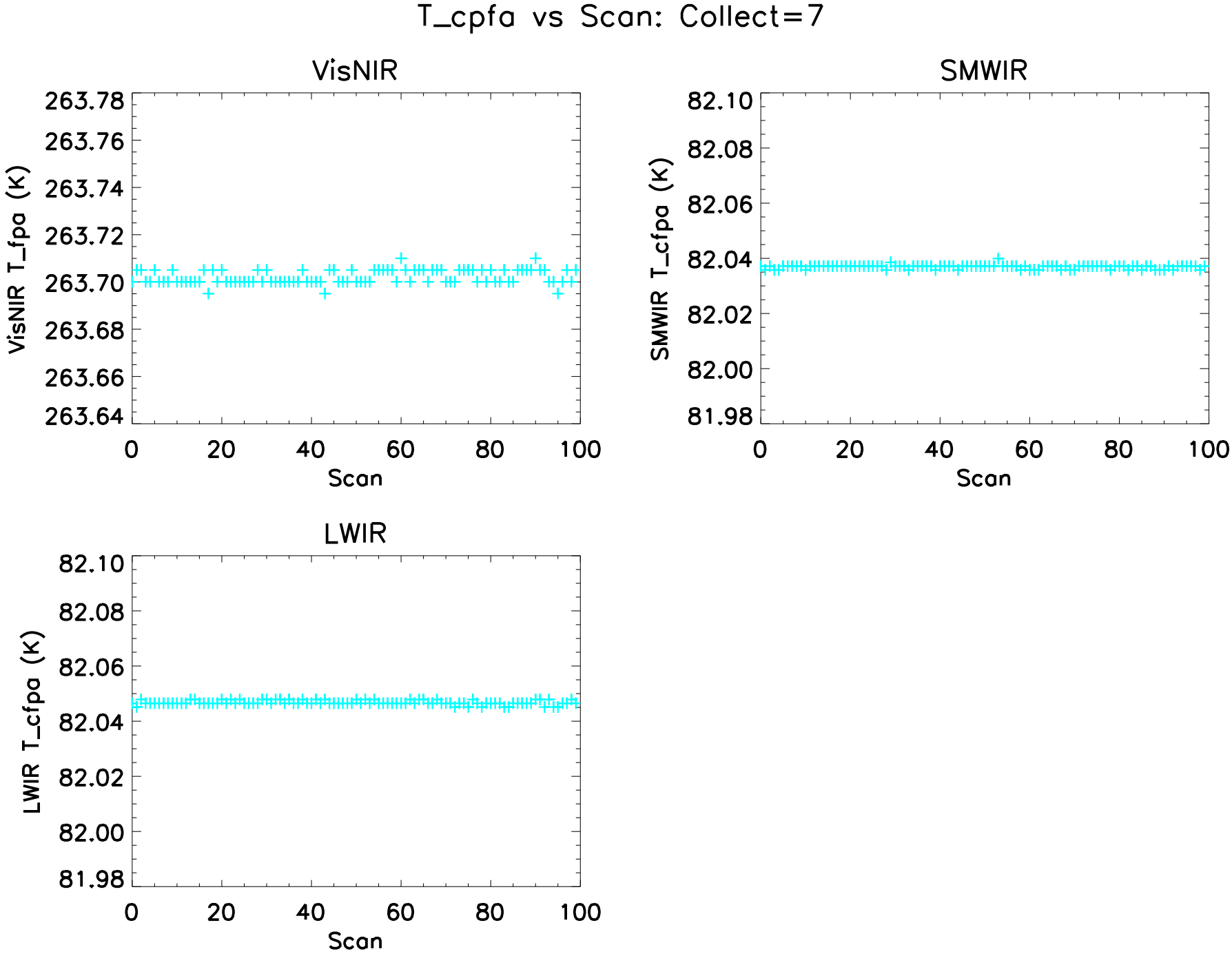

T_cpfa vs Scan: Collect=2
VisNIR
VisNIR T_fpa (K)
263.64
263.62
263.60
263.58
263.56
263.54
263.52
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

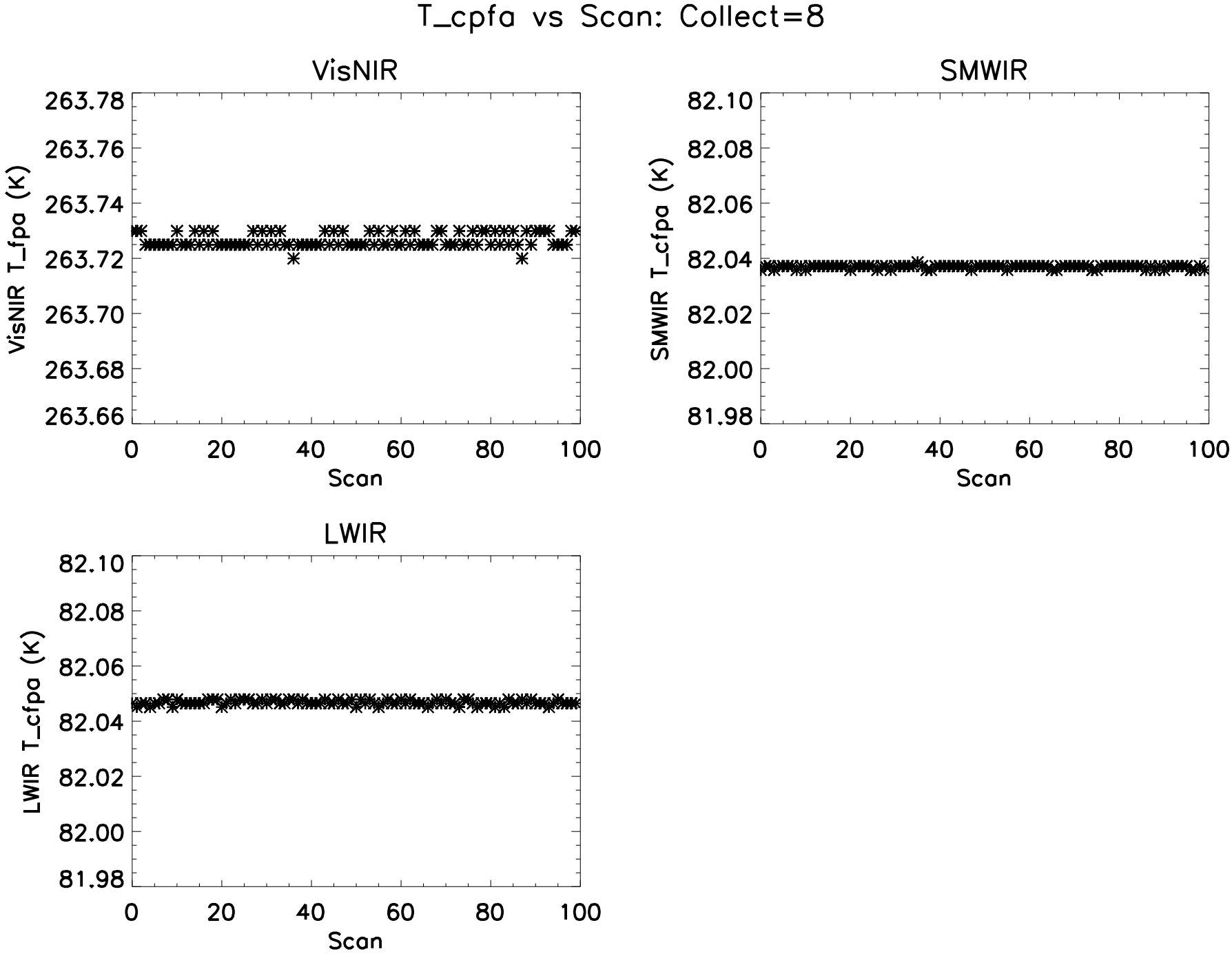

T_cpfa vs Scan: Collect=3
VisNIR
VisNIR T_fpa (K)
263.66
263.64
263.62
263.60
263.58
263.56
263.54
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

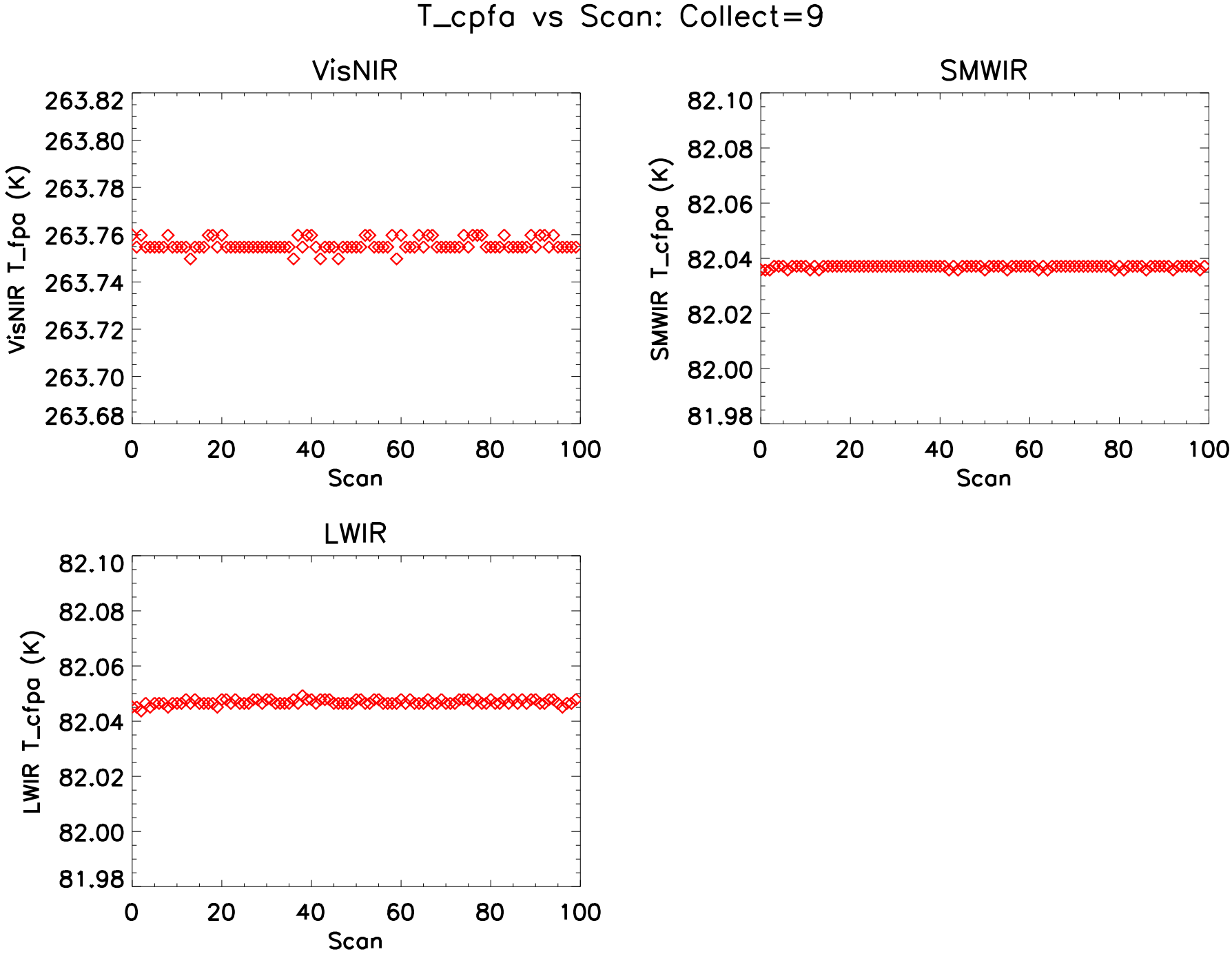

T_cpfa vs Scan: Collect=4
VisNIR
263.68
263.66
263.64
263.62
263.60
263.58
263.56
VisNIR T_fpa (K)
0
20
40
60
80
100
Scan
SMWIR
82.10
82.08
82.06
82.04
82.02
82.00
81.98
SMWIR T_cfpa (K)
0
20
40
60
80
100
Scan
LWIR
82.10
82.08
82.06
82.04
82.02
82.00
81.98
LWIR T_cfpa (K)
0
20
40
60
80
100
Scan

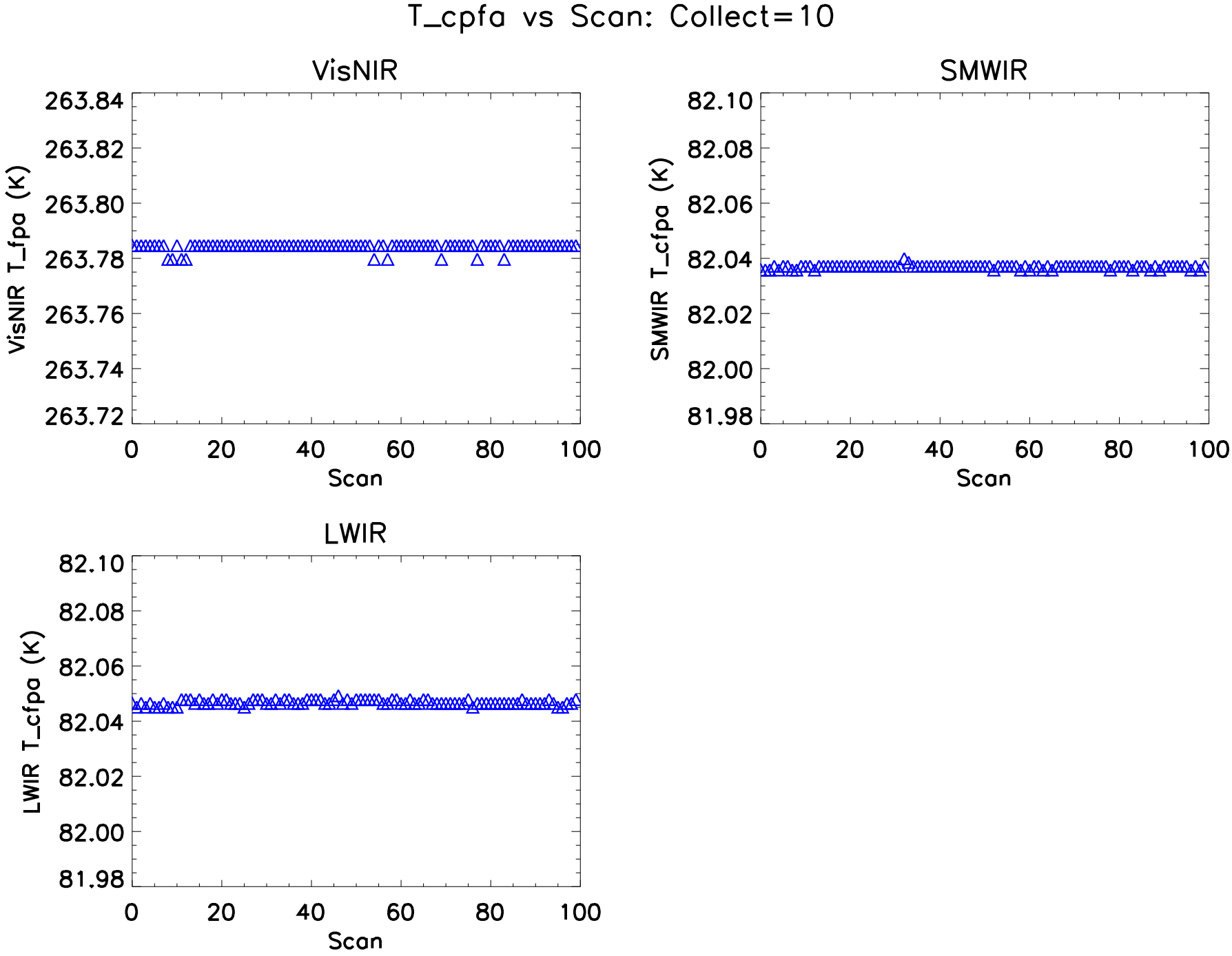

T_cpfa vs Scan: Collect=5
VisNIR
VisNIR T_fpa (K)
263.72
263.70
263.68
263.66
263.64
263.62
263.60
263.58
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

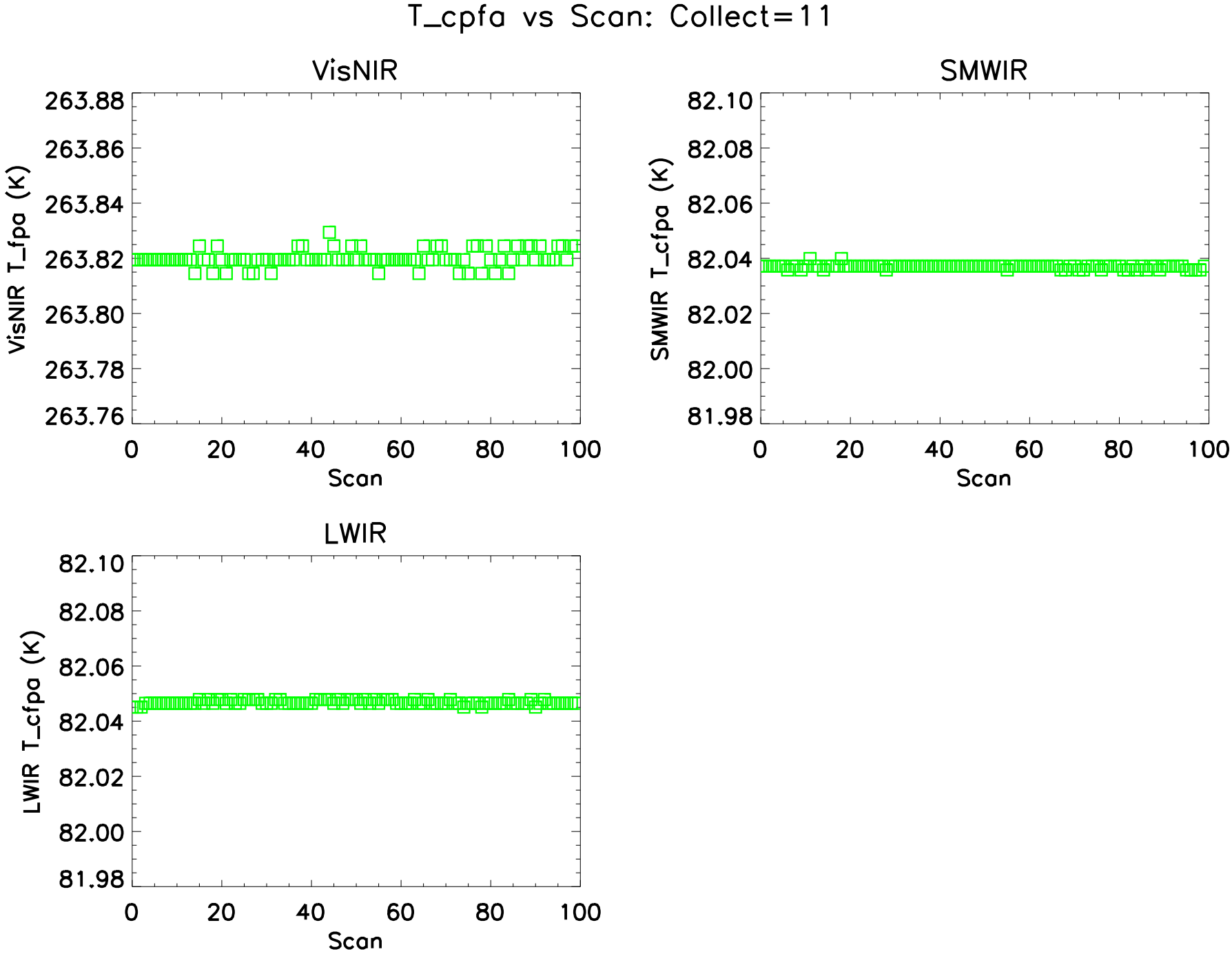

T_cpfa vs Scan: Collect=6
VisNIR
263.74
263.72
263.70
263.68
263.66
263.64
263.62
VisNIR T_fpa (K)
0
20
40
60
80
100
Scan
SMWIR
82.10
82.08
82.06
82.04
82.02
82.00
81.98
SMWIR T_cfpa (K)
0
20
40
60
80
100
Scan
LWIR
82.10
82.08
82.06
82.04
82.02
82.00
81.98
LWIR T_cfpa (K)
0
20
40
60
80
100
Scan

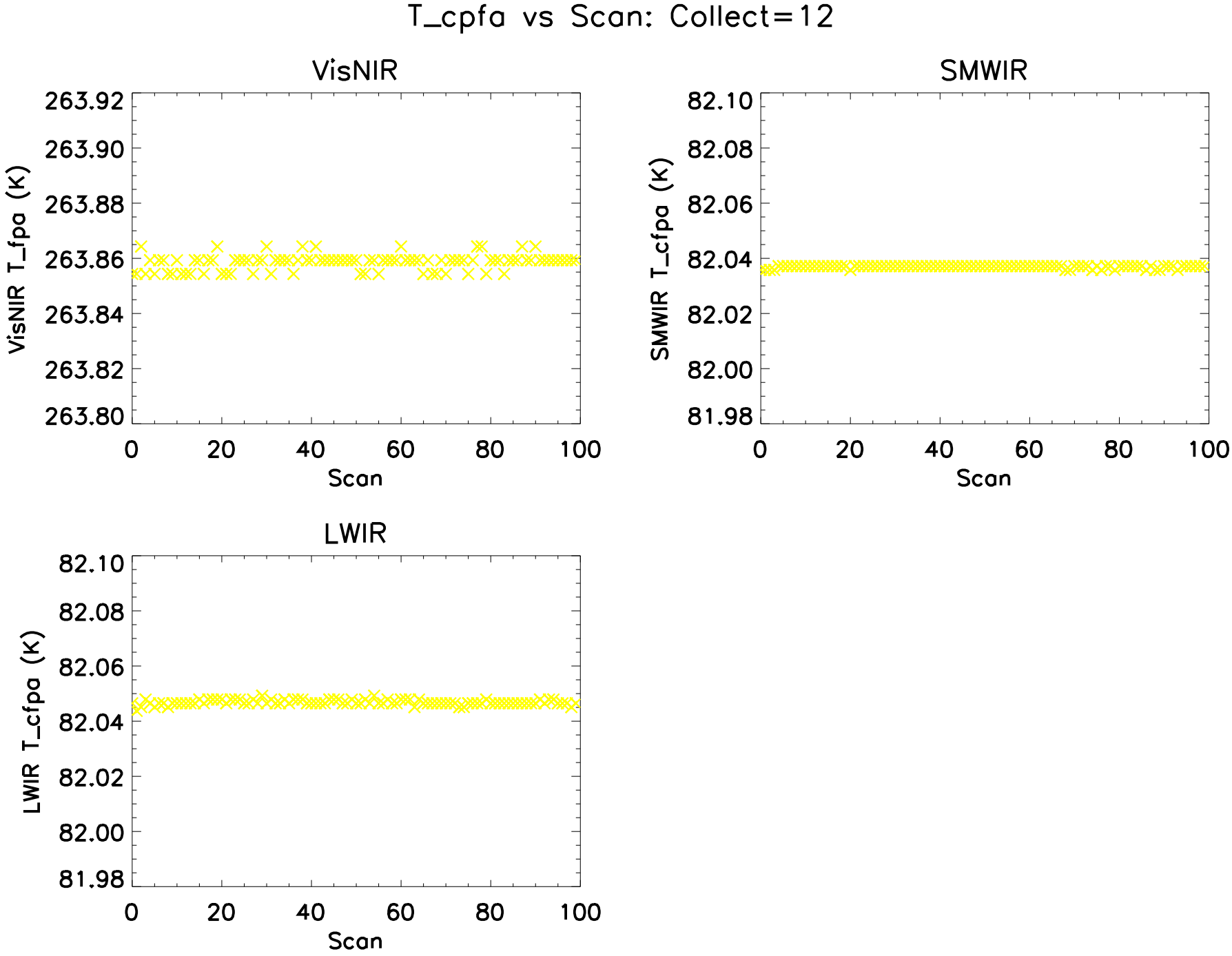

T_cpfa vs Scan: Collect=7
VisNIR
VisNIR T_fpa (K)
263.78
263.76
263.74
263.72
263.70
263.68
263.66
263.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

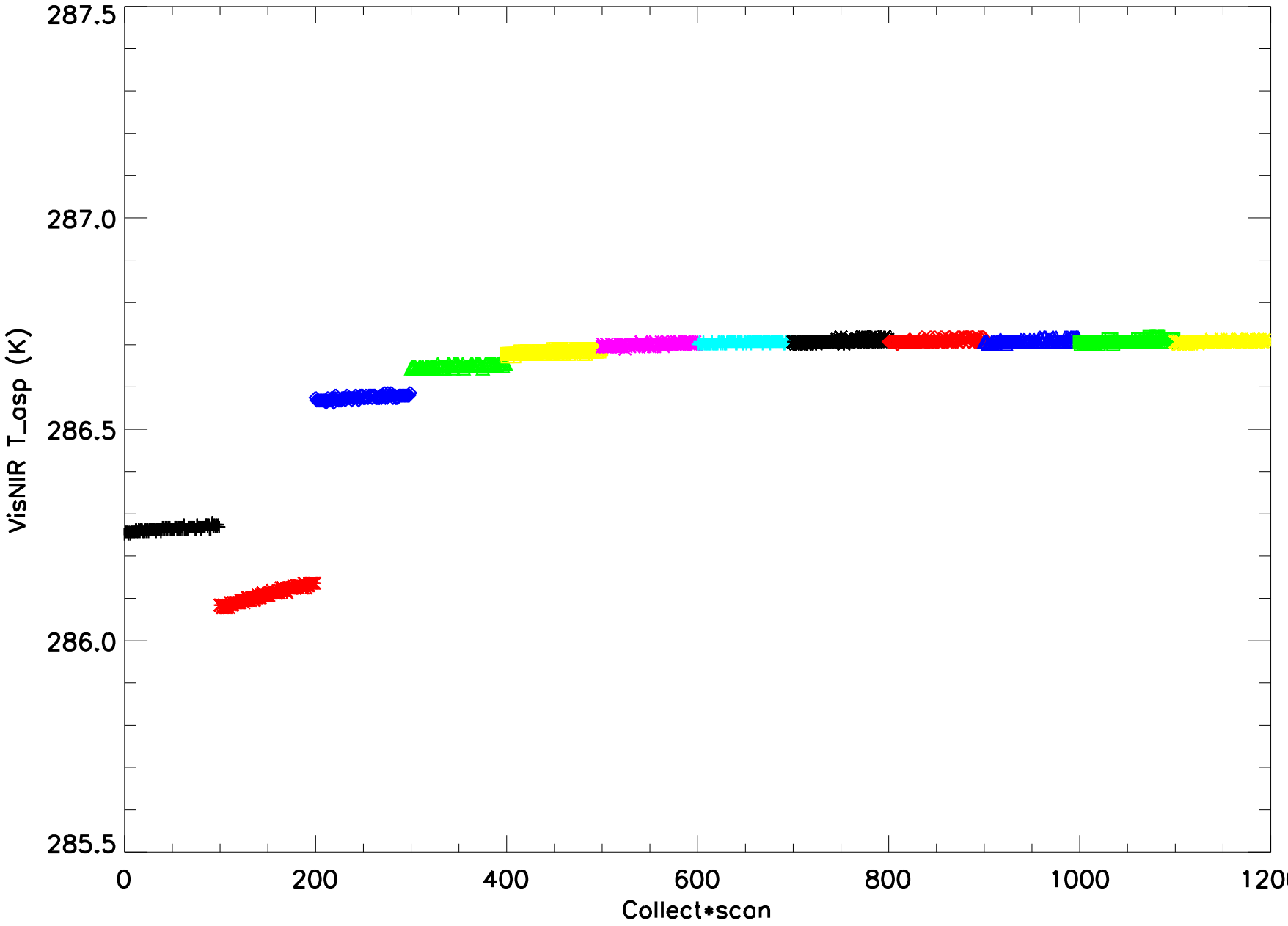

T_cpfa vs Scan: Collect=8
VisNIR
VisNIR T_fpa (K)
263.78
263.76
263.74
263.72
263.70
263.68
263.66
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

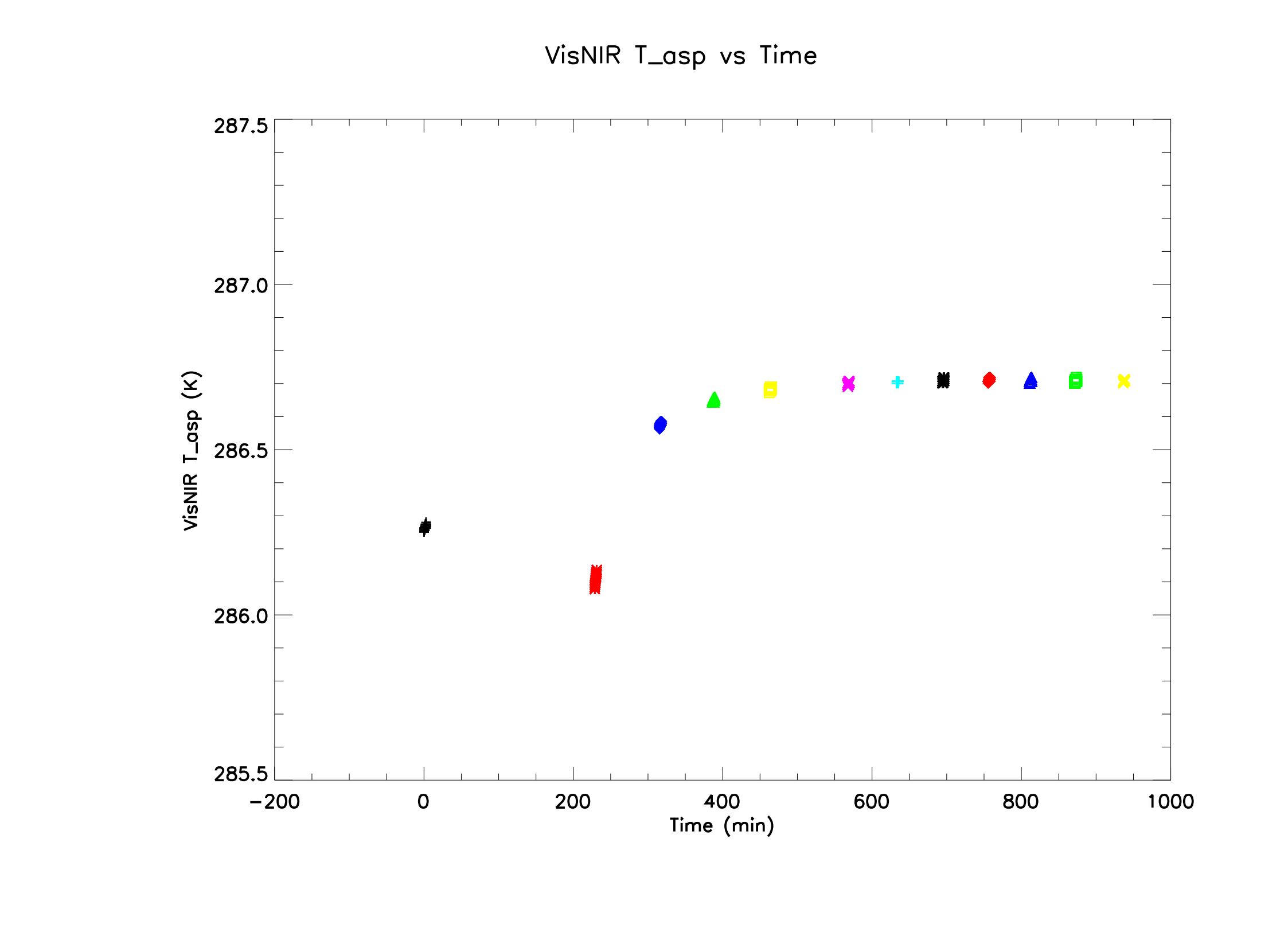

T_cpfa vs Scan: Collect=9
VisNIR
VisNIR T_fpa (K)
263.82
263.80
263.78
263.76
263.74
263.72
263.70
263.68
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

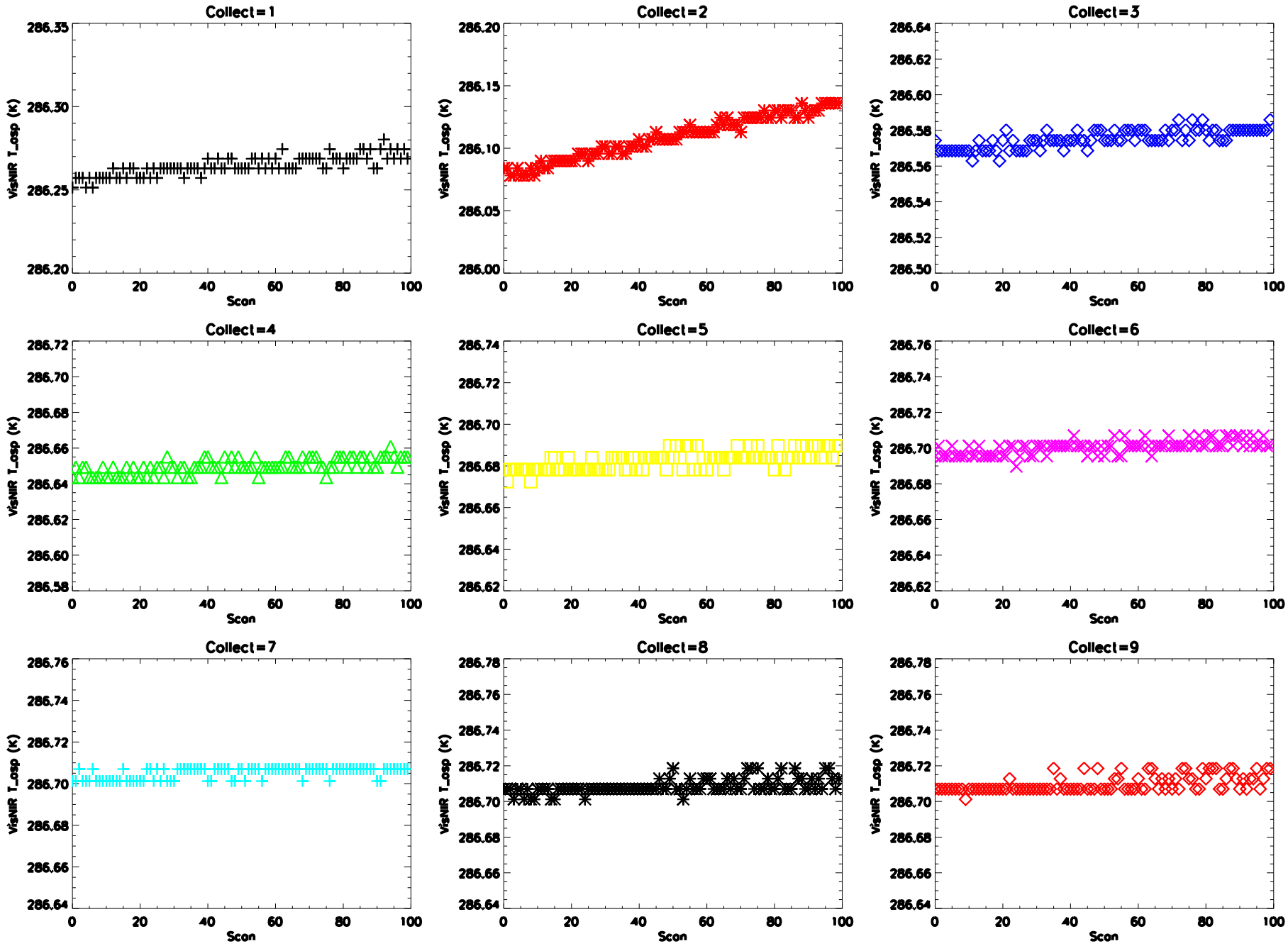

T_cpfa vs Scan: Collect=10
VisNIR
VisNIR T_fpa (K)
263.84
263.82
263.80
263.78
263.76
263.74
263.72
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan


T_cpfa vs Scan: Collect=11
VisNIR
VisNIR T_fpa (K)
263.88
263.86
263.84
263.82
263.80
263.78
263.76
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan
LWIR
LWIR T_cfpa (K)
82.10
82.08
82.06
82.04
82.02
82.00
81.98
0
20
40
60
80
100
Scan

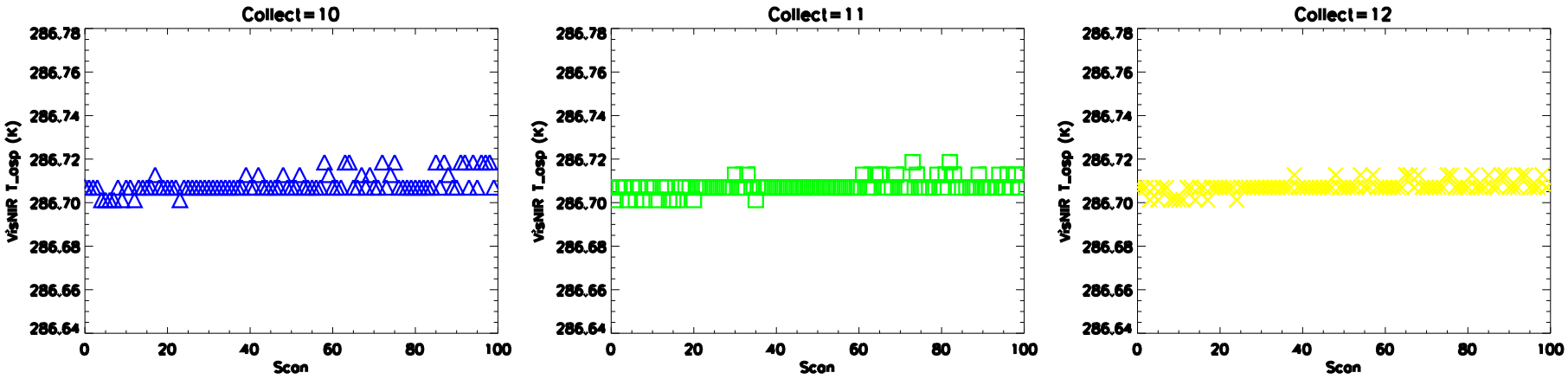

T_cpfa vs Scan: Collect=12
VisNIR
263.92
263.90
263.88
263.86
263.84
263.82
263.80
VisNIR T_fpa (K)
0
20
40
60
80
100
Scan
SMWIR
82.10
82.08
82.06
82.04
82.02
82.00
81.98
SMWIR T_cfpa (K)
0
20
40
60
80
100
Scan
LWIR
82.10
82.08
82.06
82.04
82.02
82.00
81.98
LWIR T_cfpa (K)
0
20
40
60
80
100
Scan

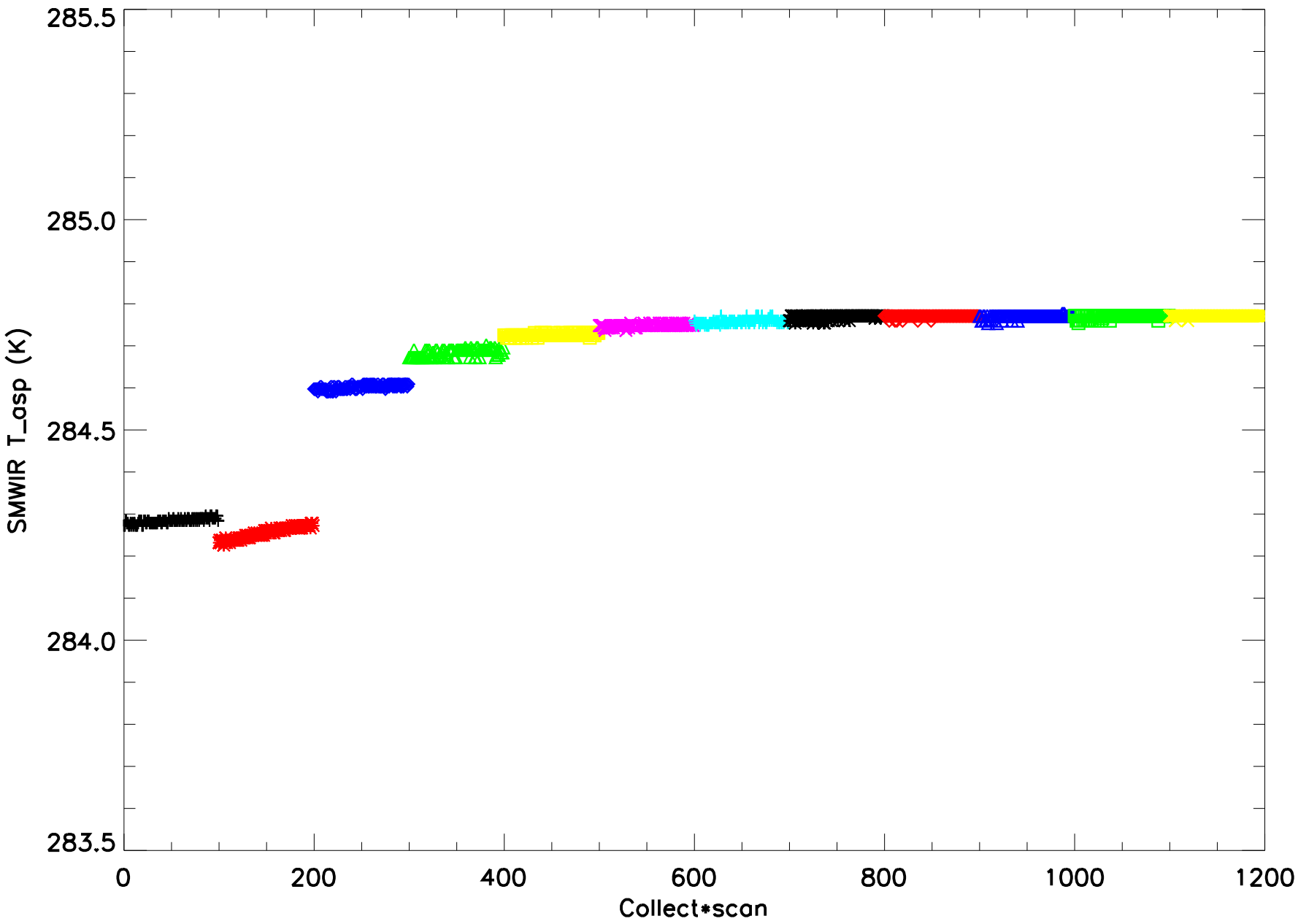

VisNIR T_asp vs Scan and Collect
287.5
287.0
286.5
286.0
285.5
VisNIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

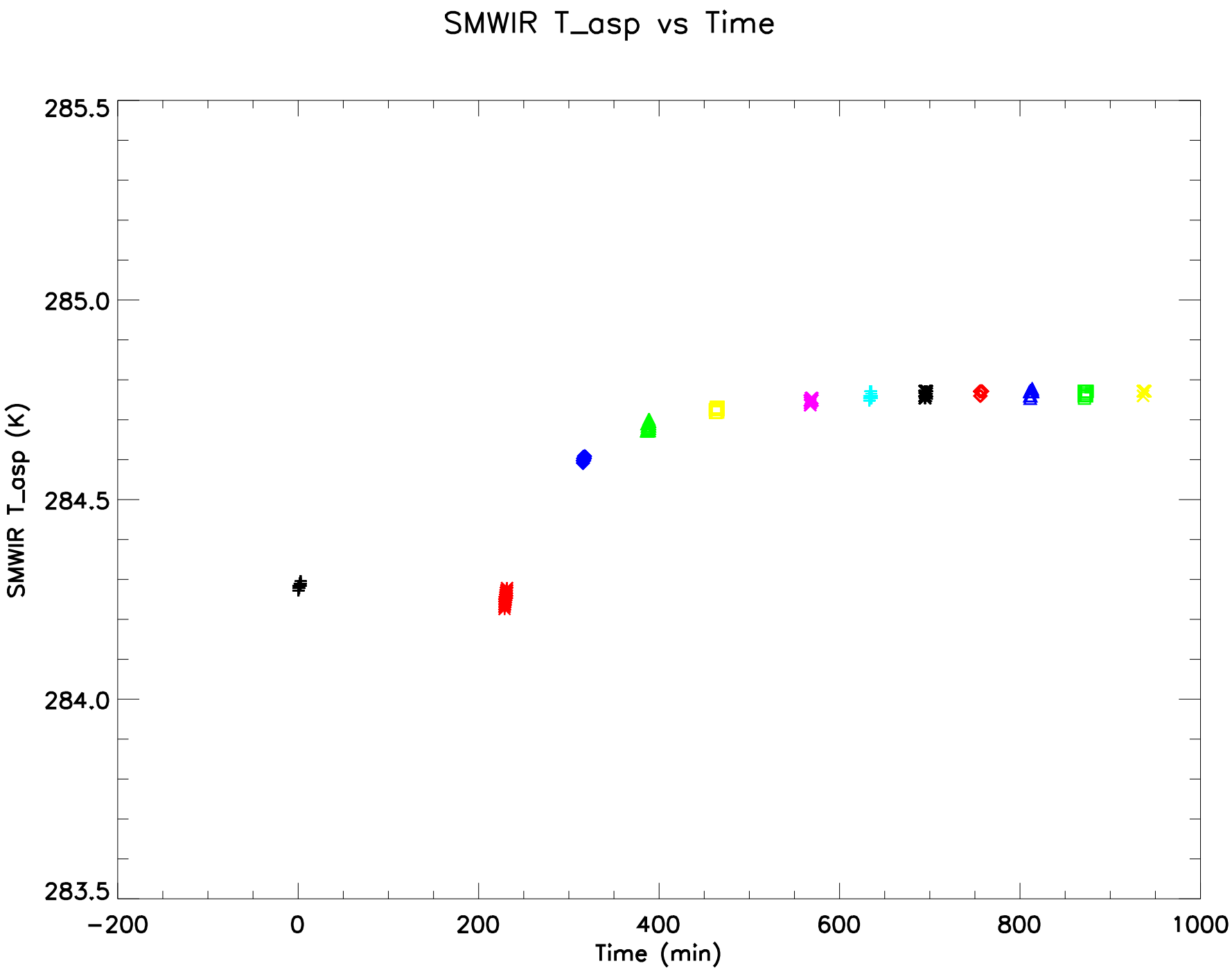

VisNIR T_asp vs Time
VisNIR T_asp (K)
287.5
287.0
286.5
286.0
285.5
−200
0
200
400
600
800
1000
Time (min)

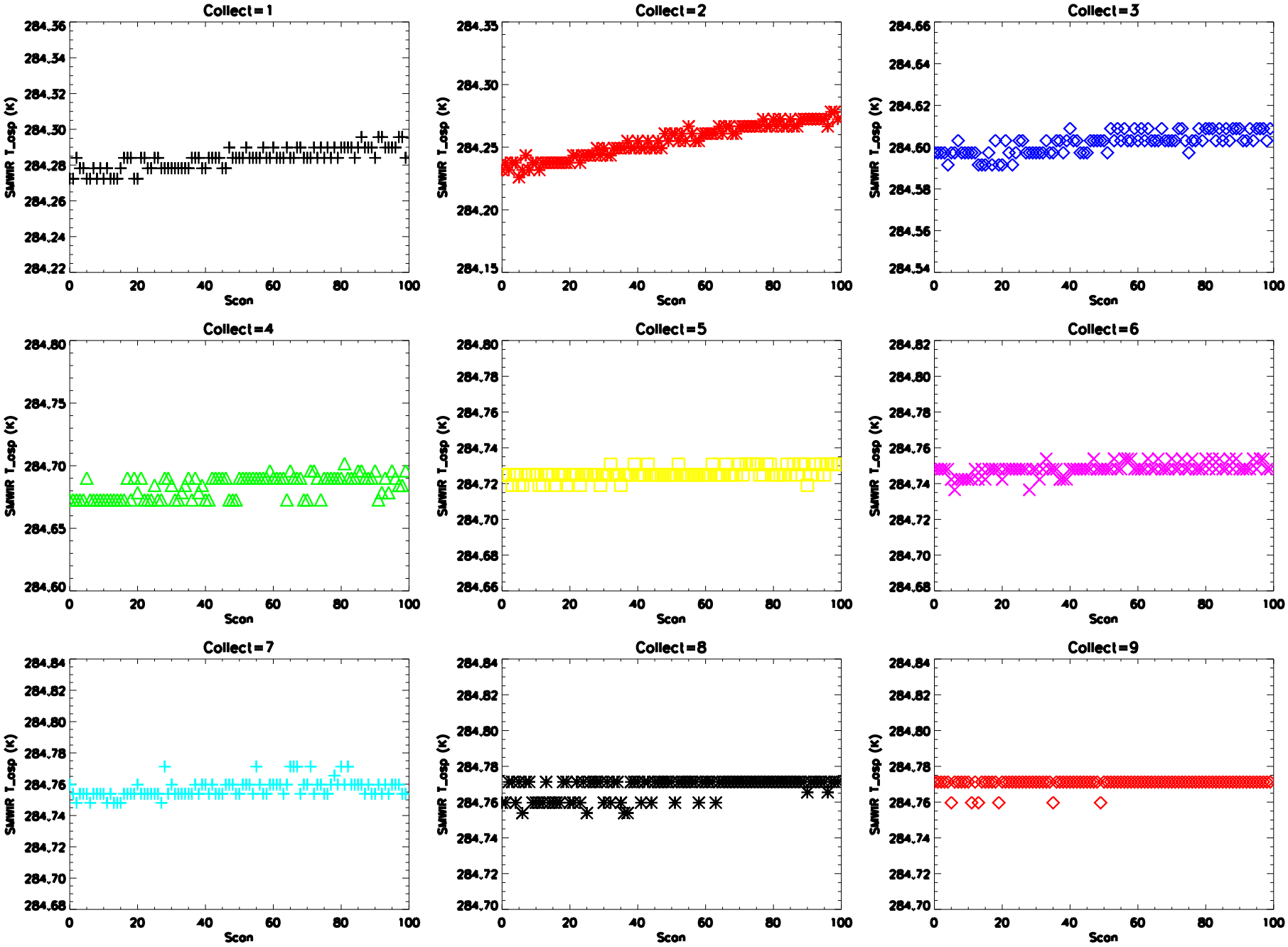

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
VisNIR T_osp (K)
Scan

VisNIR T_asp vs Scan

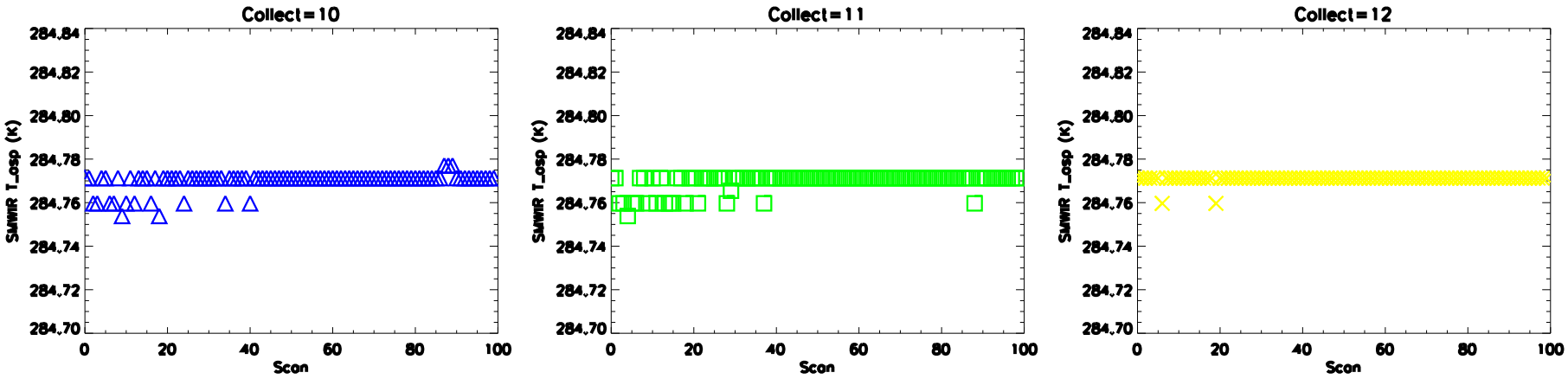


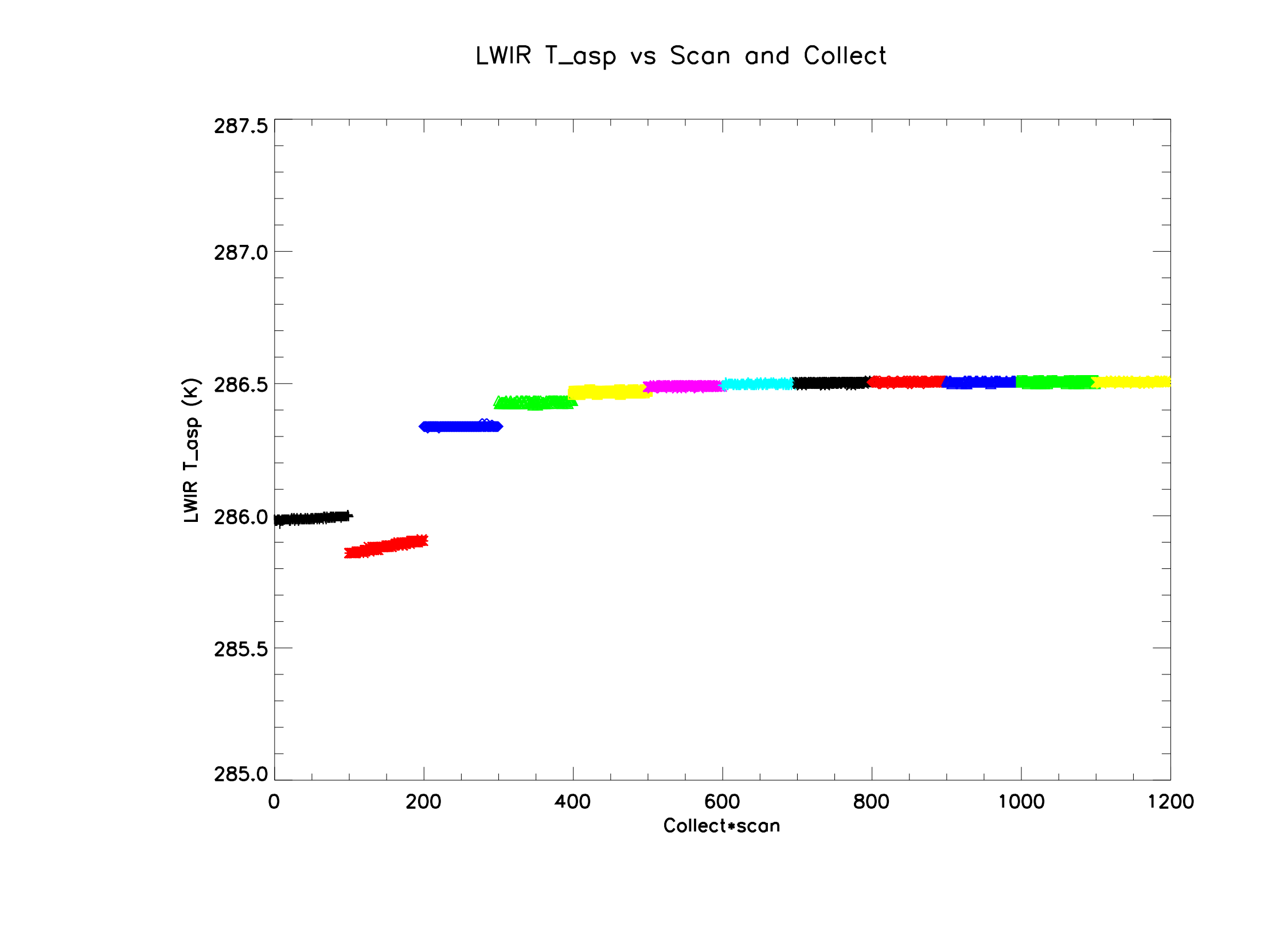

SMWIR T_asp vs Scan and Collect
285.5
285.0
284.5
284.0
283.5
SMWIR T_asp (K)
0
200
400
600
800
1000
1200
Collect*scan

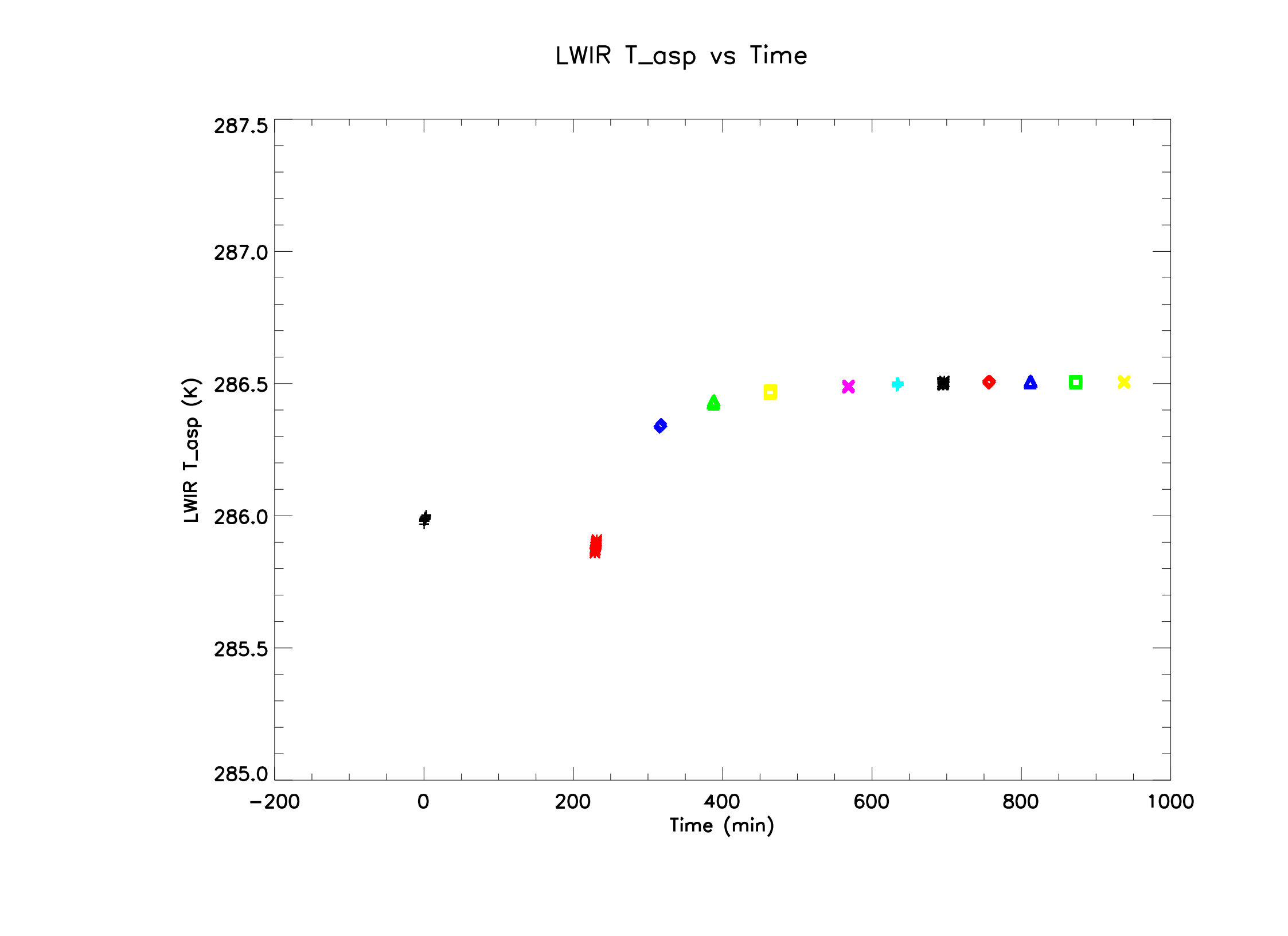

SMWIR T_asp vs Time
SMWIR T_asp (K)
285.5
285.0
284.5
284.0
283.5
−200
0
200
400
600
800
1000
Time (min)

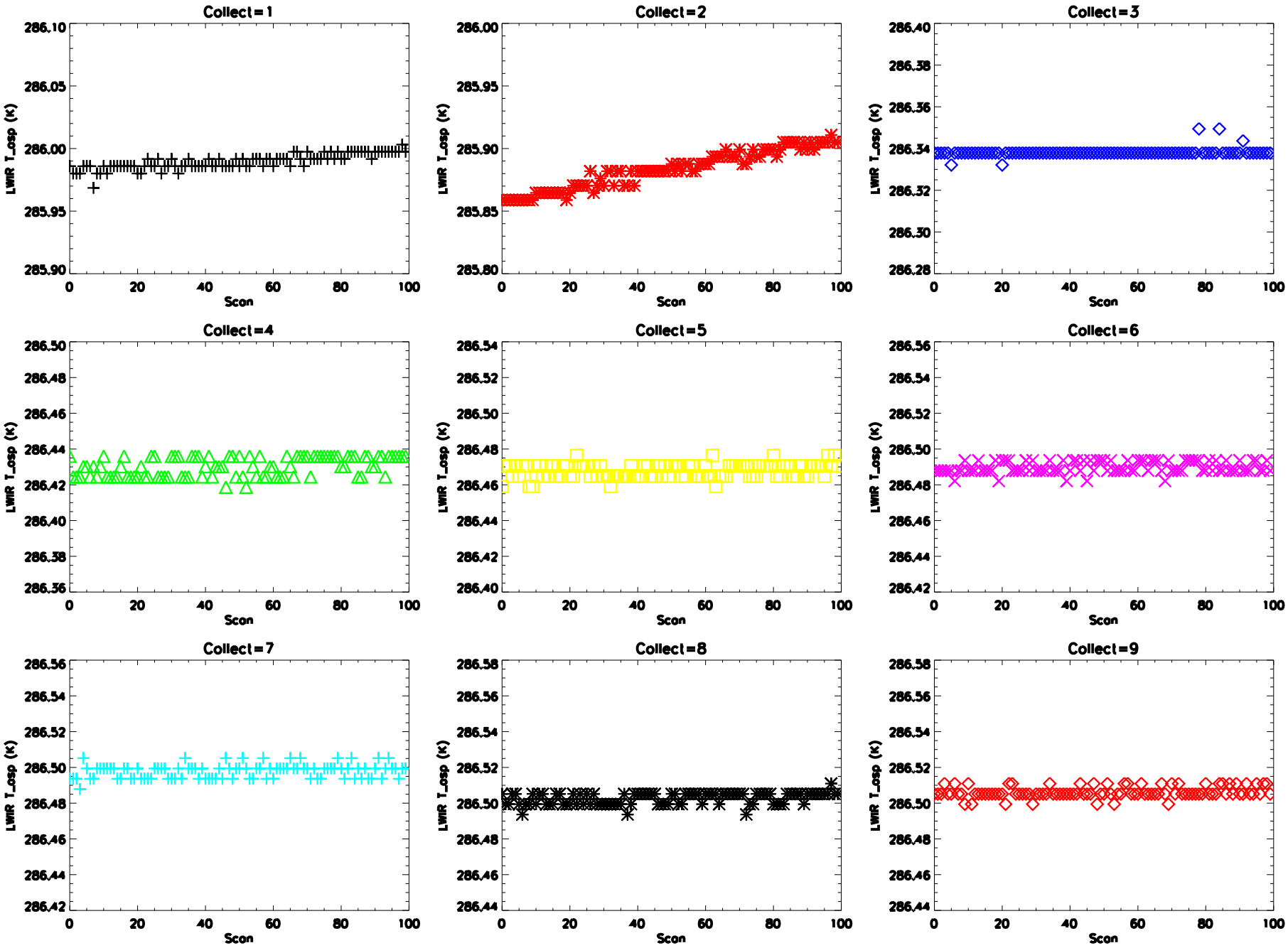

Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
SNWNR T_osp (K)
Scan

SMWIR T_asp vs Scan

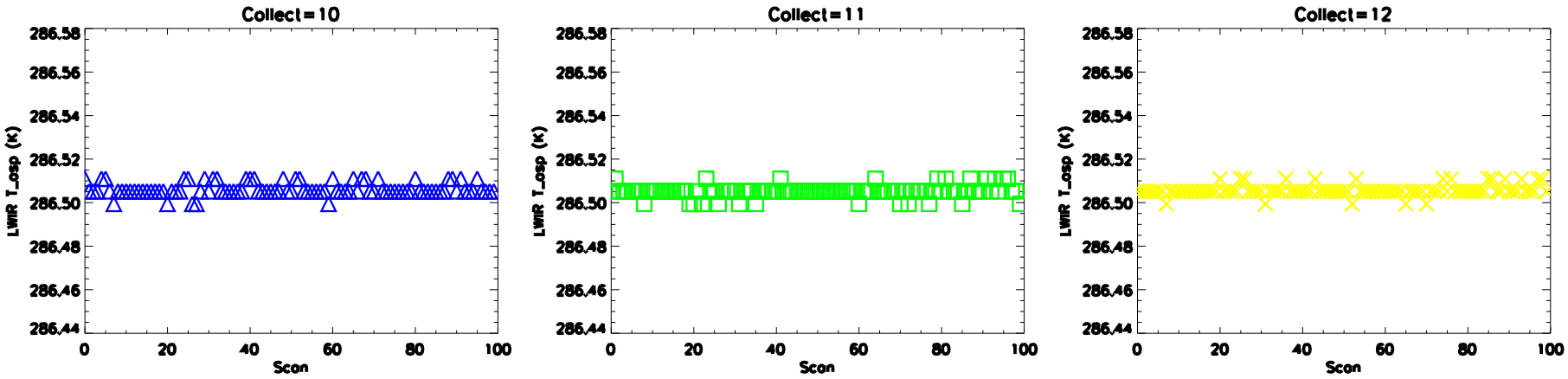


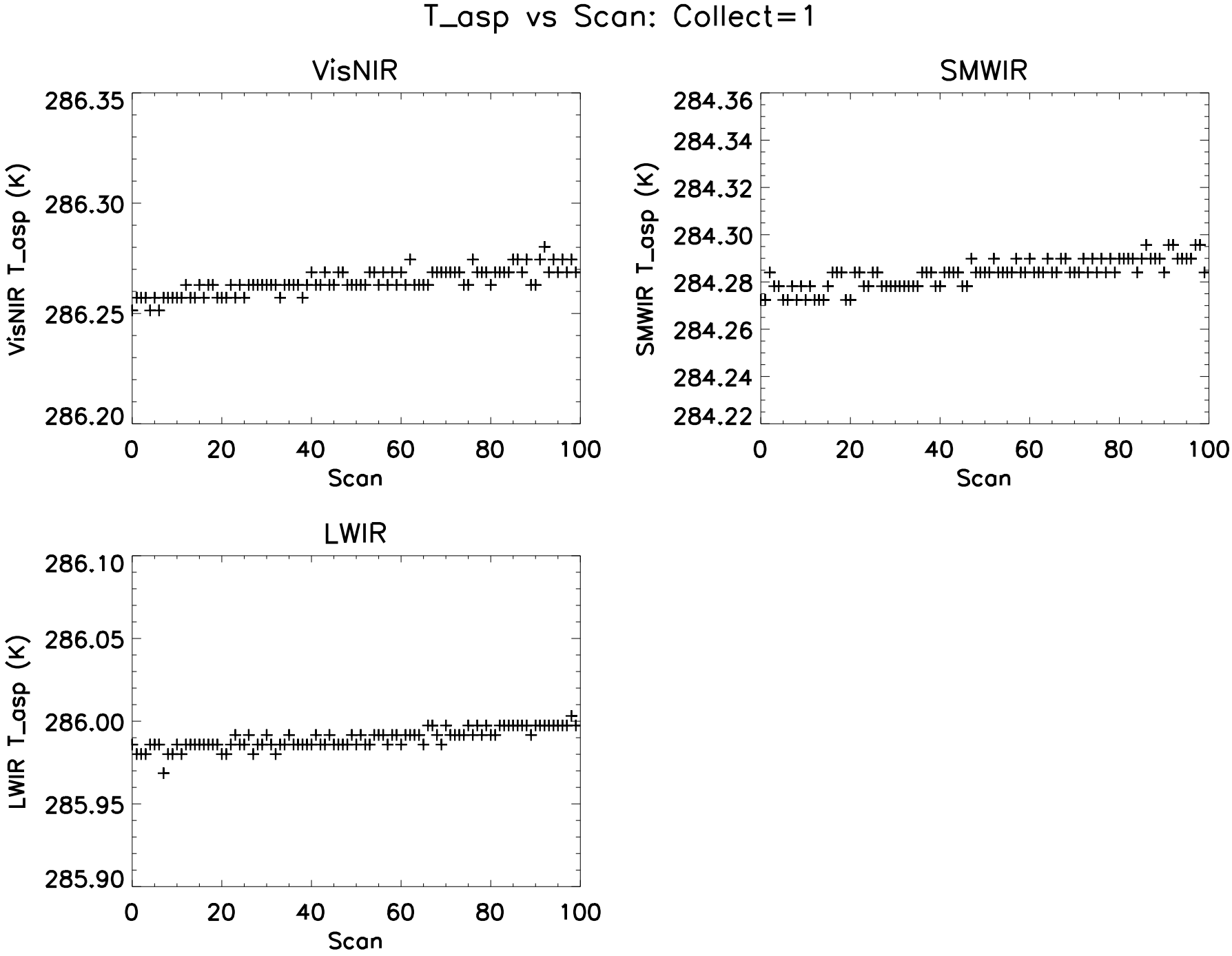

LWIR T_asp vs Scan and Collect
LWIR T_asp (K)
287.5
287.0
286.5
286.0
285.5
285.0
0
200
400
600
800
1000
1200
Collect*scan

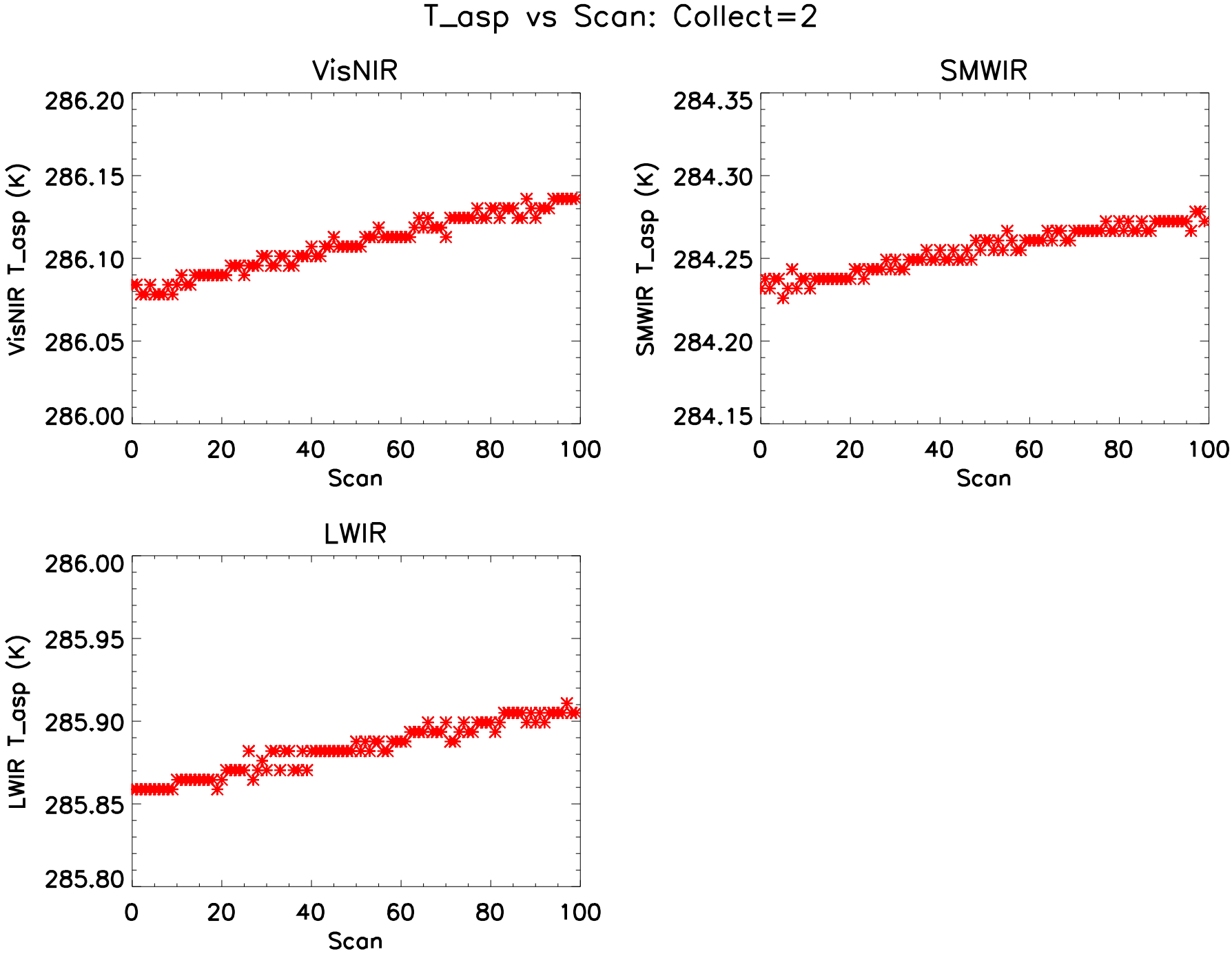

LWIR T_asp vs Time
LWIR T_asp (K)
287.5
287.0
286.5
286.0
285.5
285.0
−200
0
200
400
600
800
1000
Time (min)

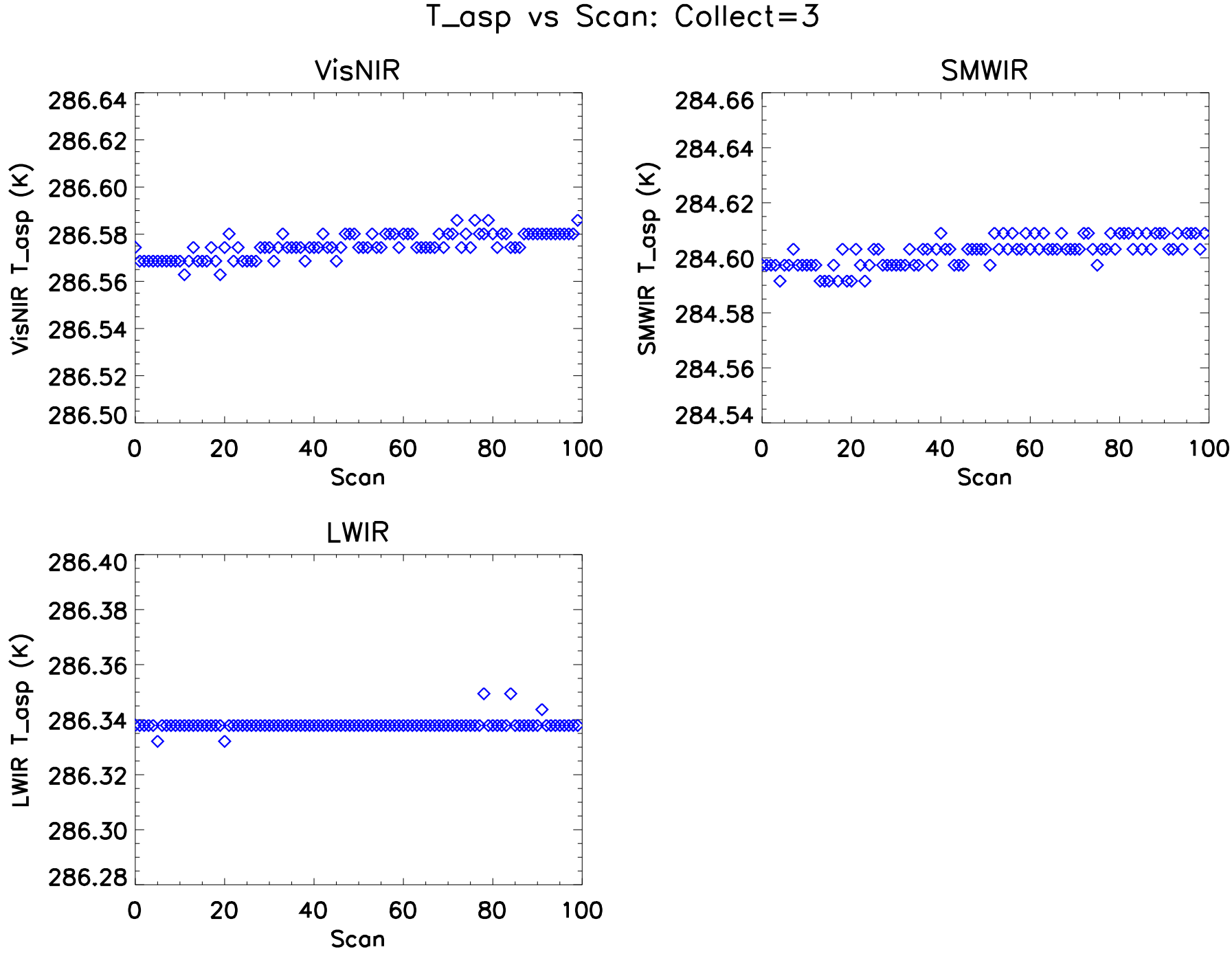

Collect=1
LWIR T_osp (K)
286.10
286.05
286.00
285.95
285.90
0
20
40
60
80
100
Scan
Collect=2
LWIR T_osp (K)
286.00
285.95
285.90
285.85
285.80
0
20
40
60
80
100
Scan
Collect=3
LWIR T_osp (K)
286.40
286.38
286.36
286.34
286.32
286.30
286.28
0
20
40
60
80
100
Scan
Collect=4
LWIR T_osp (K)
286.50
286.48
286.46
286.44
286.42
286.40
286.38
286.36
0
20
40
60
80
100
Scan
Collect=5
LWIR T_osp (K)
286.54
286.52
286.50
286.48
286.46
286.44
286.42
286.40
0
20
40
60
80
100
Scan
Collect=6
LWIR T_osp (K)
286.56
286.54
286.52
286.50
286.48
286.46
286.44
286.42
0
20
40
60
80
100
Scan
Collect=7
LWIR T_osp (K)
286.56
286.54
286.52
286.50
286.48
286.46
286.44
286.42
0
20
40
60
80
100
Scan
Collect=8
LWIR T_osp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan
Collect=9
LWIR T_osp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan

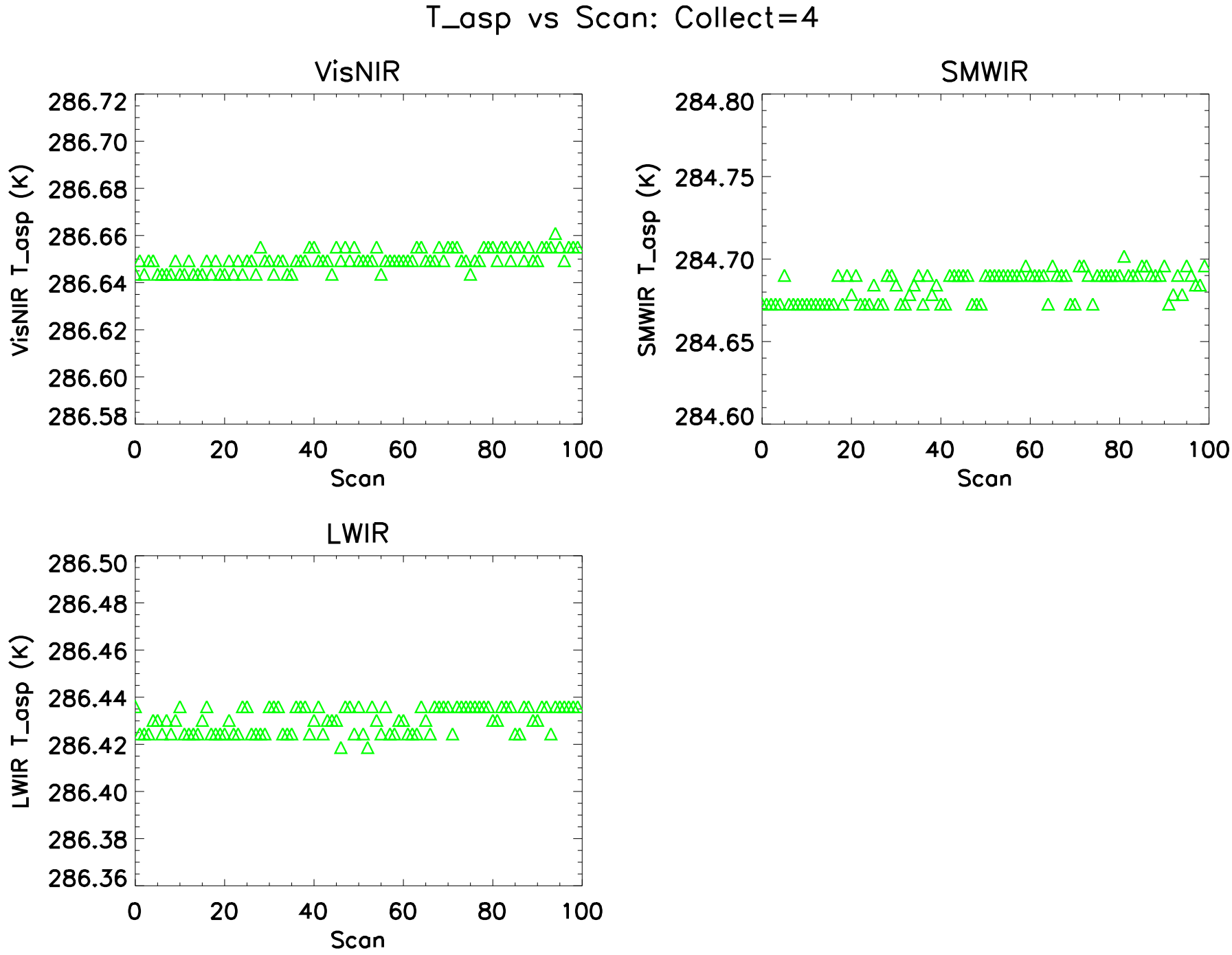
LWIR T_asp vs Scan

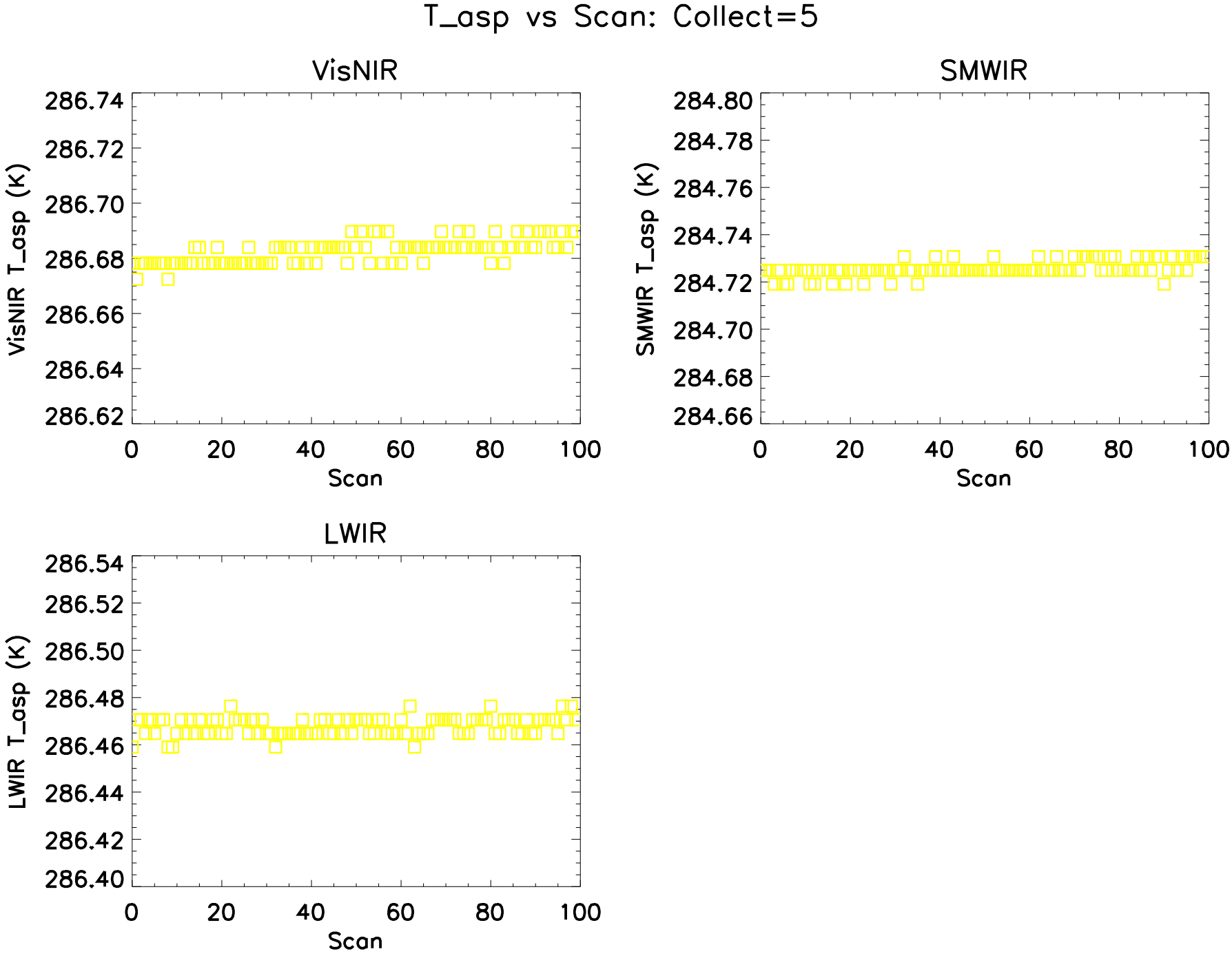


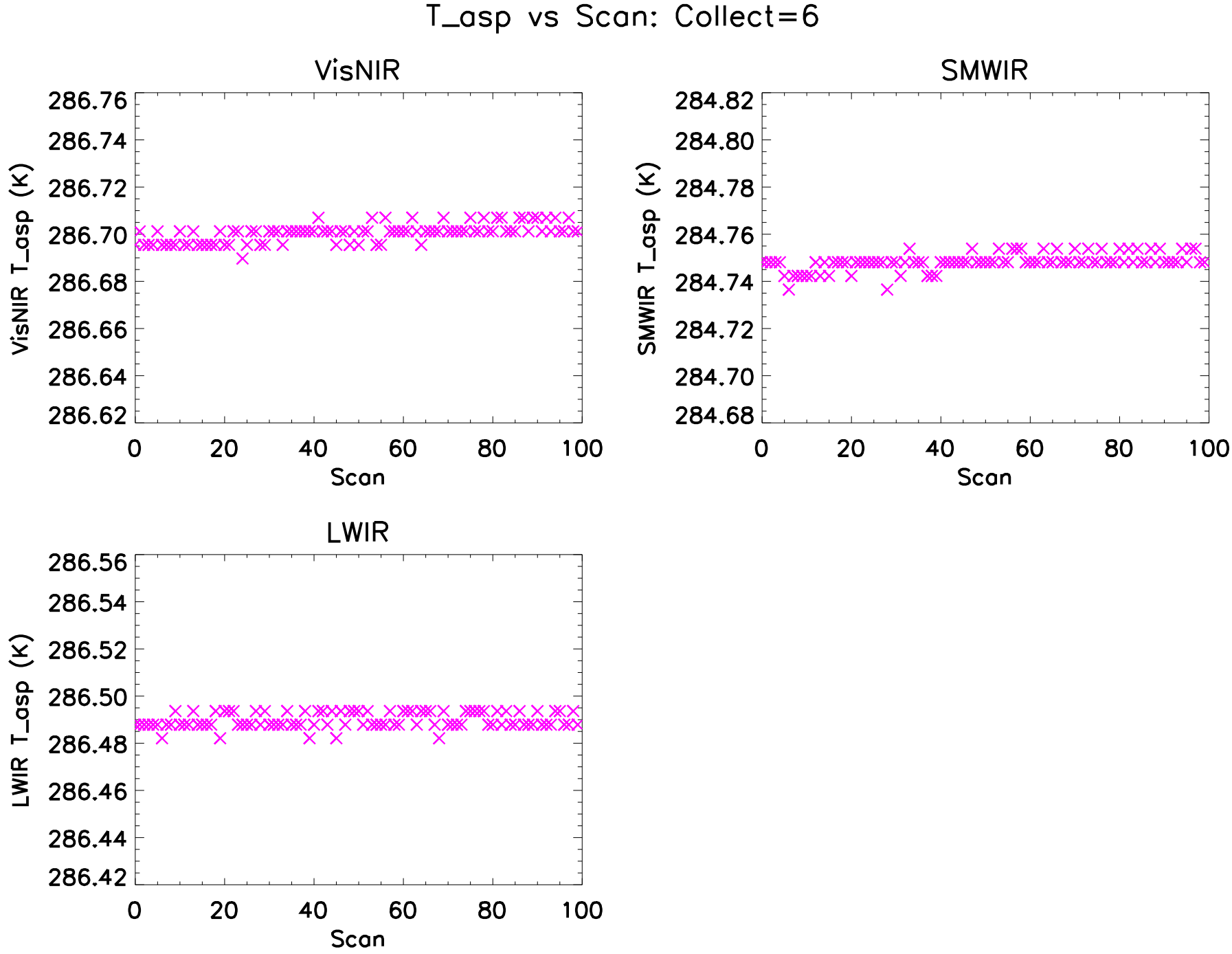

T_asp vs Scan: Collect=1
VisNIR
VisNIR T_asp (K)
286.35
286.30
286.25
286.20
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.36
284.34
284.32
284.30
284.28
284.26
284.24
284.22
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.10
286.05
286.00
285.95
285.90
0
20
40
60
80
100
Scan

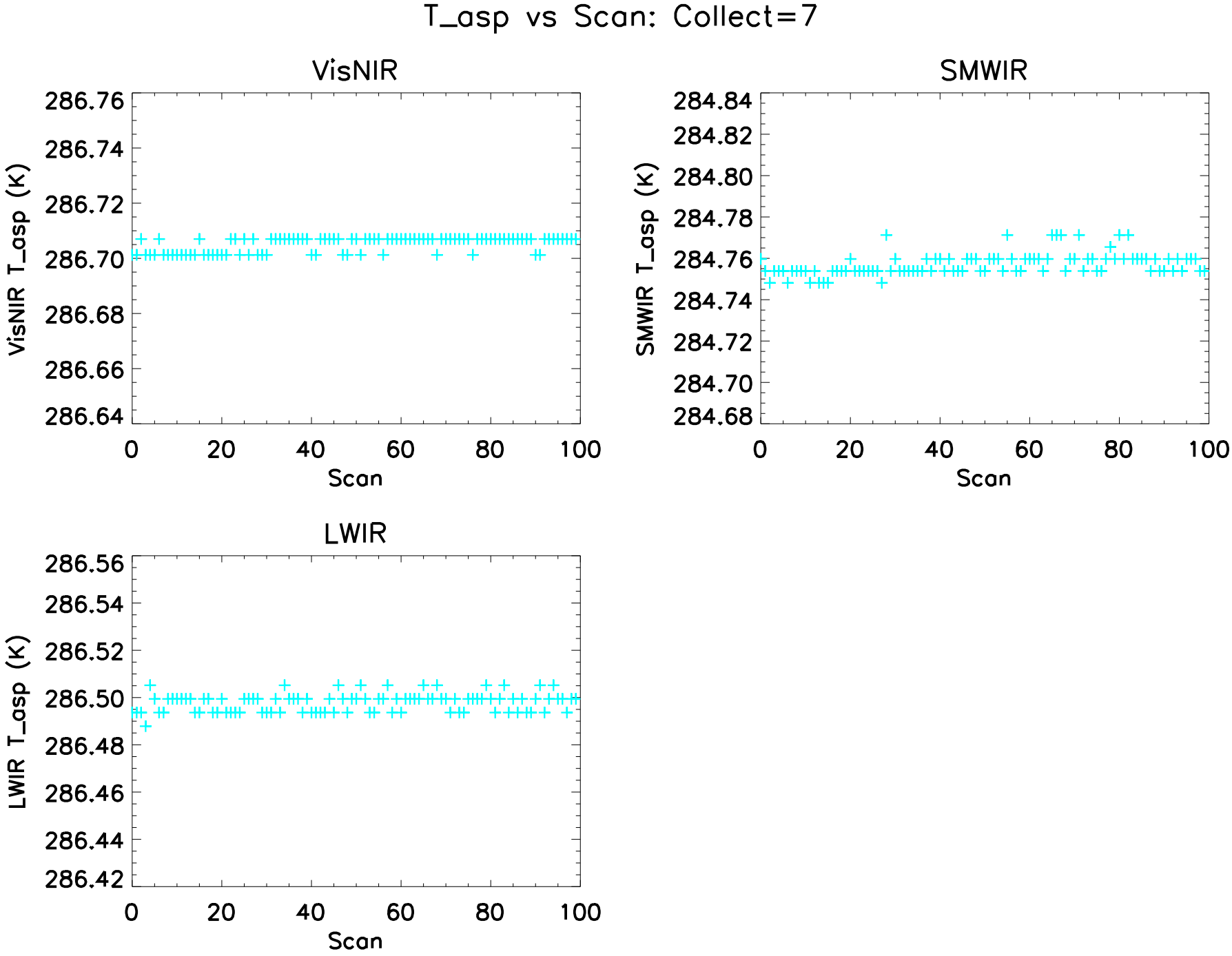

T_asp vs Scan: Collect=2
VisNIR
VisNIR T_asp (K)
286.20
286.15
286.10
286.05
286.00
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.35
284.30
284.25
284.20
284.15
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.00
285.95
285.90
285.85
285.80
0
20
40
60
80
100
Scan

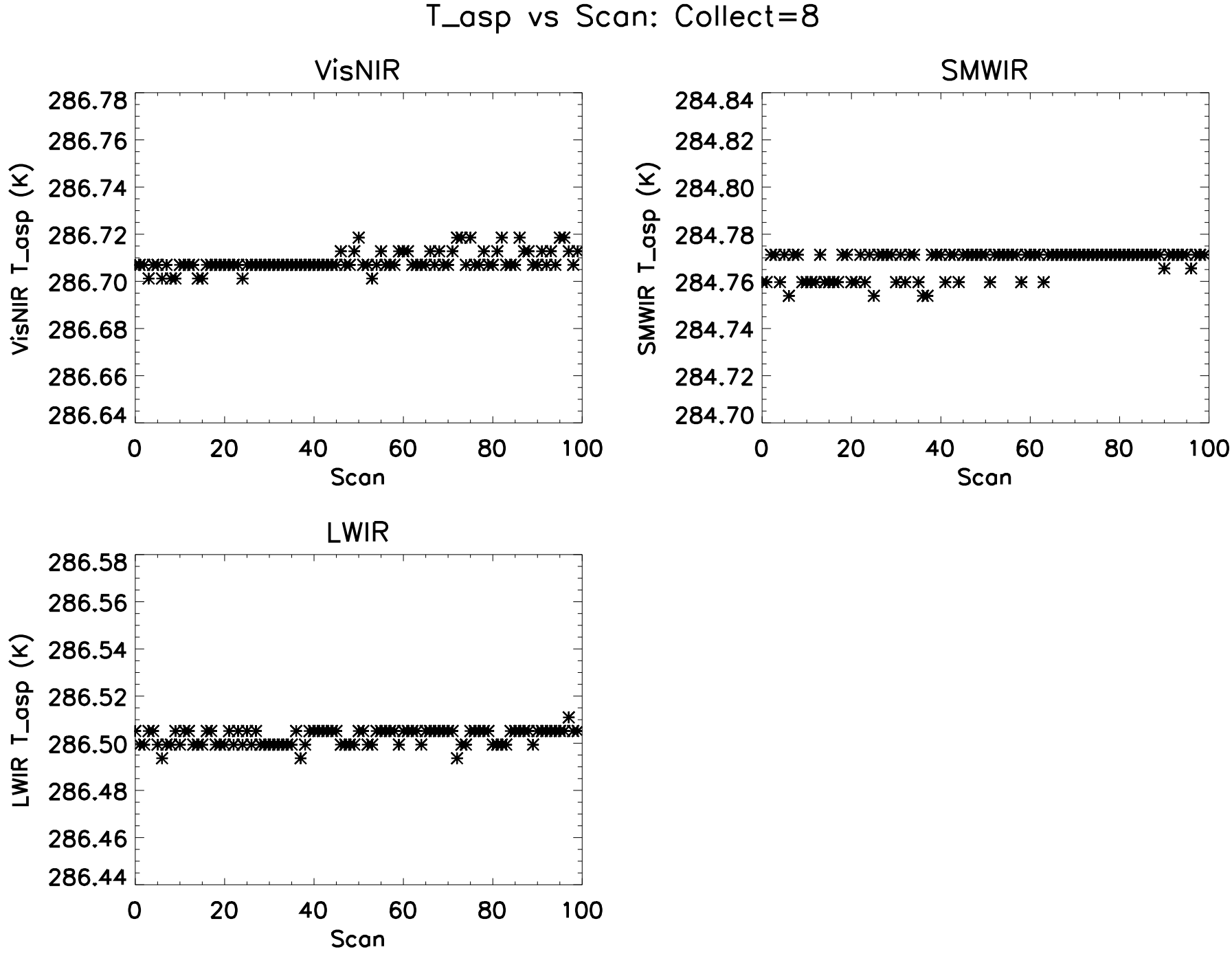

T_asp vs Scan: Collect=3
VisNIR
VisNIR T_asp (K)
286.64
286.62
286.60
286.58
286.56
286.54
286.52
286.50
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.66
284.64
284.62
284.60
284.58
284.56
284.54
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.40
286.38
286.36
286.34
286.32
286.30
286.28
0
20
40
60
80
100
Scan

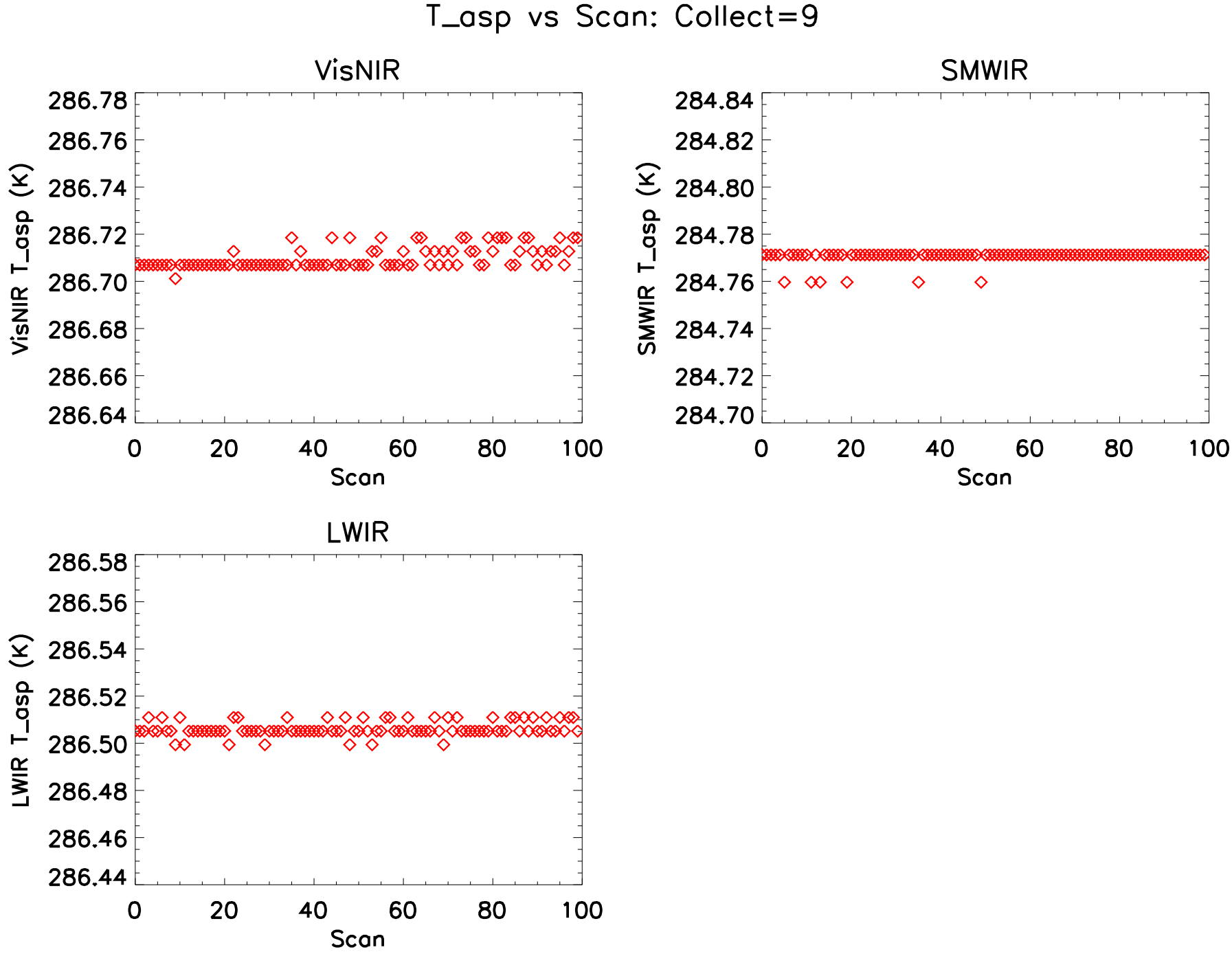

T_asp vs Scan: Collect=4
VisNIR
VisNIR T_asp (K)
286.72
286.70
286.68
286.66
286.64
286.62
286.60
286.58
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.80
284.75
284.70
284.65
284.60
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.50
286.48
286.46
286.44
286.42
286.40
286.38
286.36
0
20
40
60
80
100
Scan

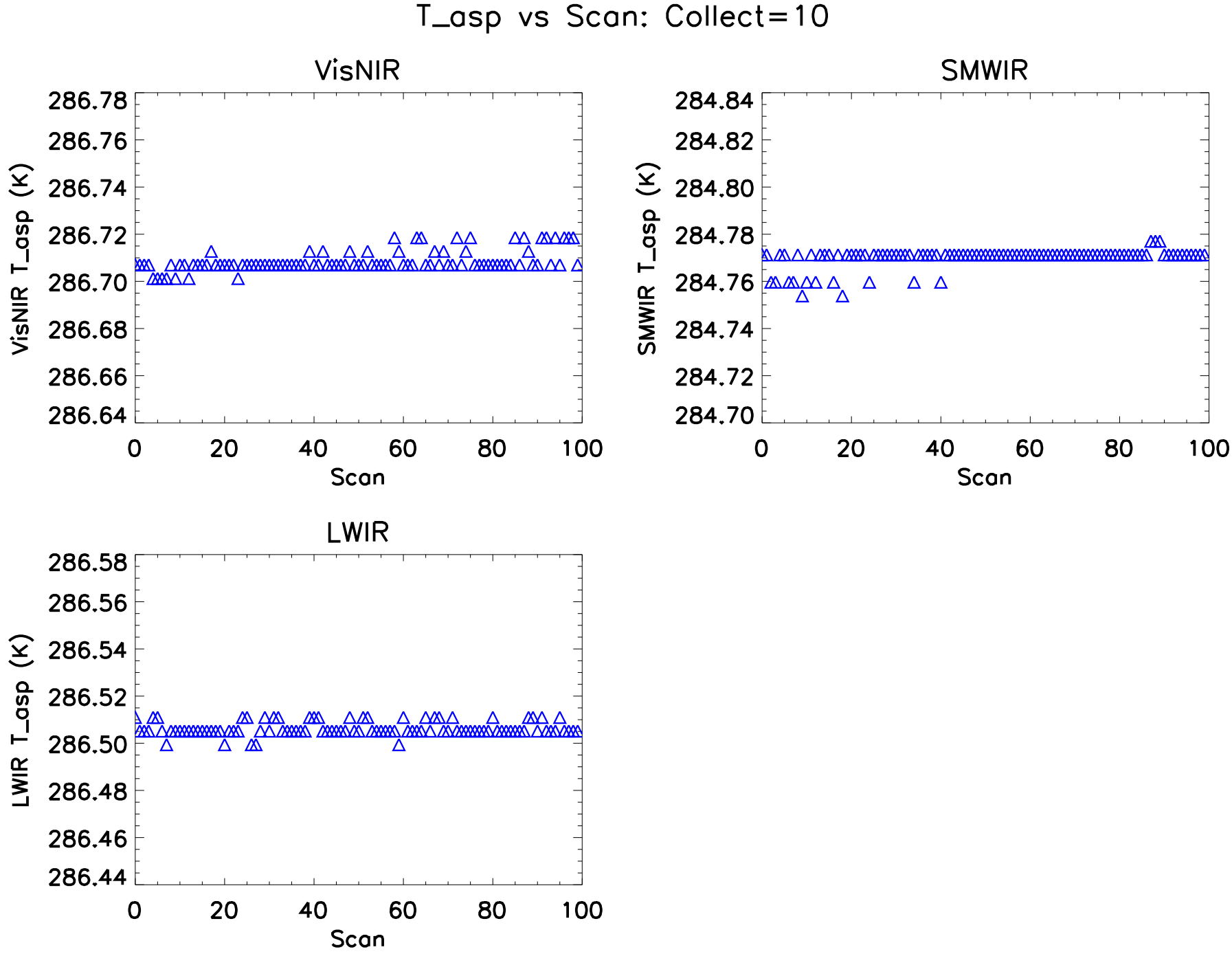

T_asp vs Scan: Collect=5
VisNIR
VisNIR T_asp (K)
286.74
286.72
286.70
286.68
286.66
286.64
286.62
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.80
284.78
284.76
284.74
284.72
284.70
284.68
284.66
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.54
286.52
286.50
286.48
286.46
286.44
286.42
286.40
0
20
40
60
80
100
Scan

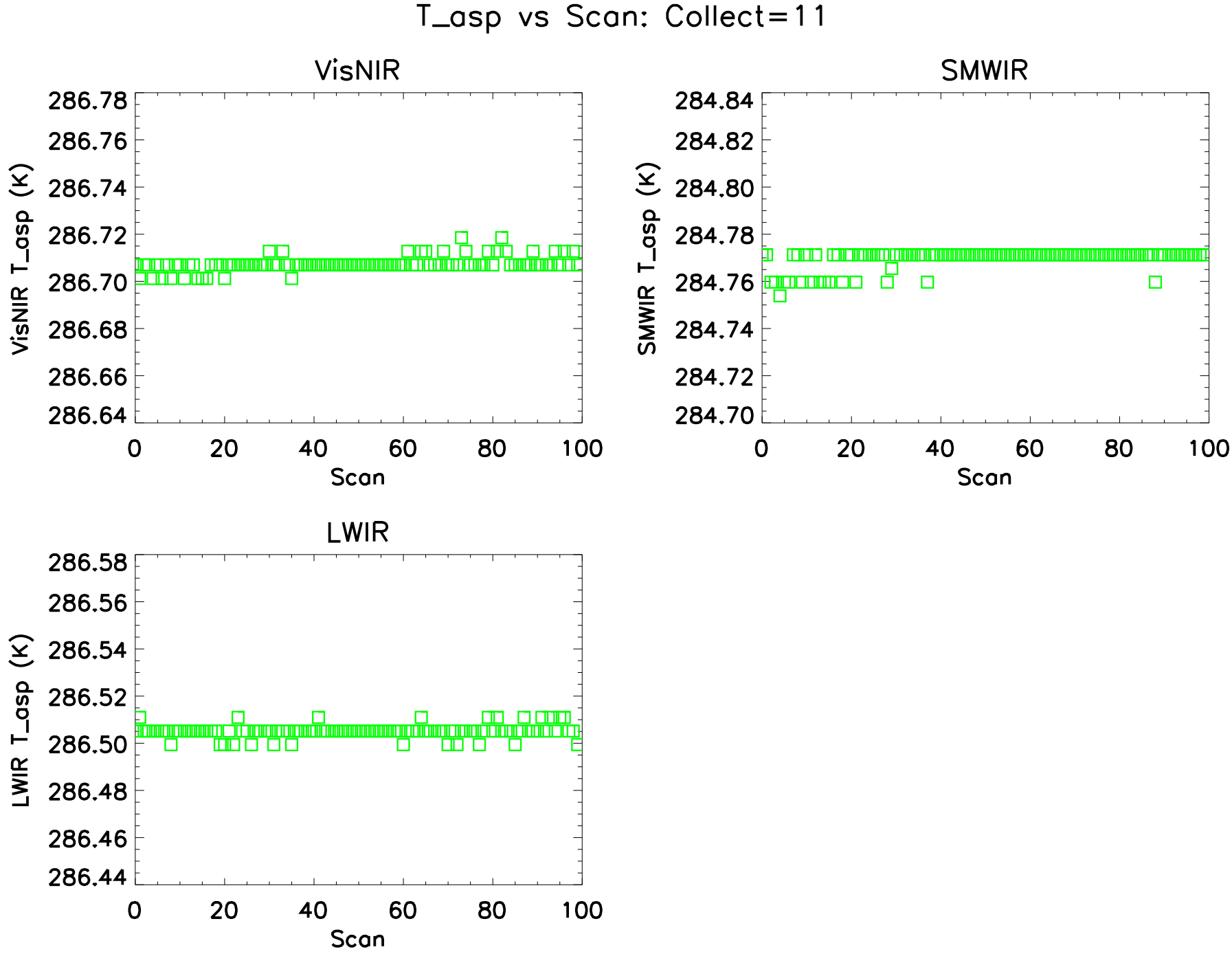

T_asp vs Scan: Collect=6
VisNIR
VisNIR T_asp (K)
286.76
286.74
286.72
286.70
286.68
286.66
286.64
286.62
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.82
284.80
284.78
284.76
284.74
284.72
284.70
284.68
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.56
286.54
286.52
286.50
286.48
286.46
286.44
286.42
0
20
40
60
80
100
Scan

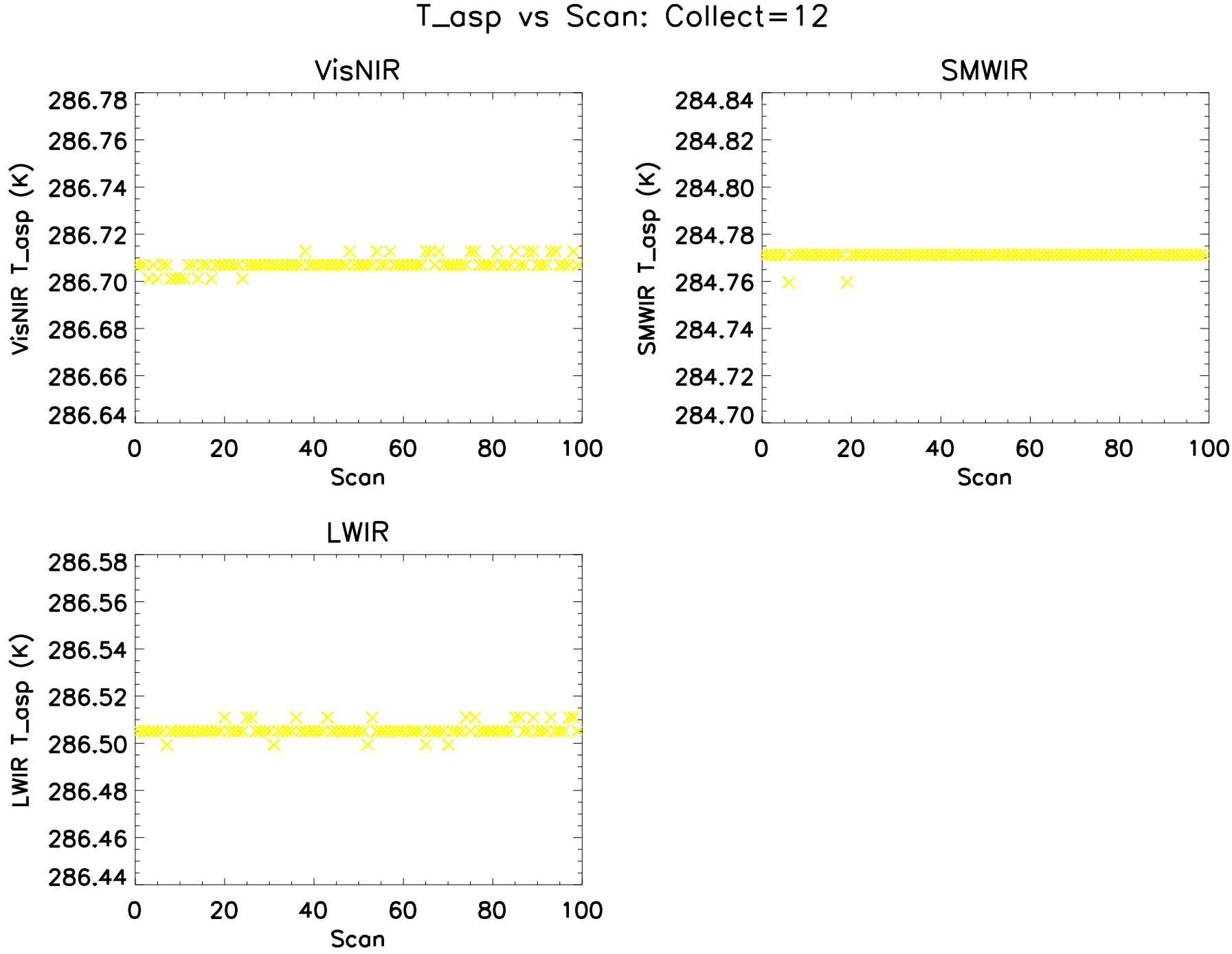

T_asp vs Scan: Collect=7
VisNIR
VisNIR T_asp (K)
286.76
286.74
286.72
286.70
286.68
286.66
286.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.84
284.82
284.80
284.78
284.76
284.74
284.72
284.70
284.68
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.56
286.54
286.52
286.50
286.48
286.46
286.44
286.42
0
20
40
60
80
100
Scan

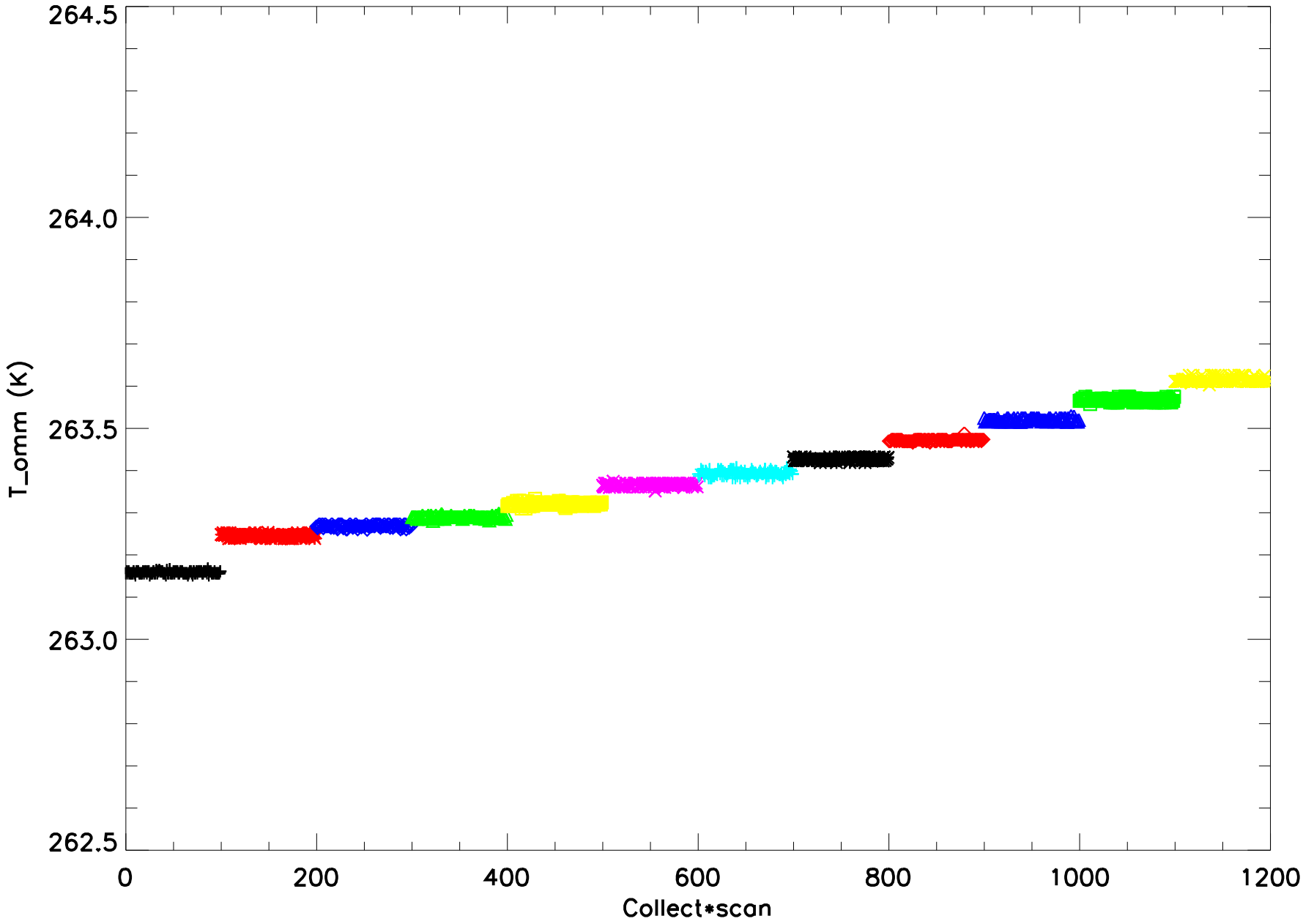

T_asp vs Scan: Collect=8
VisNIR
VisNIR T_asp (K)
286.78
286.76
286.74
286.72
286.70
286.68
286.66
286.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.84
284.82
284.80
284.78
284.76
284.74
284.72
284.70
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan

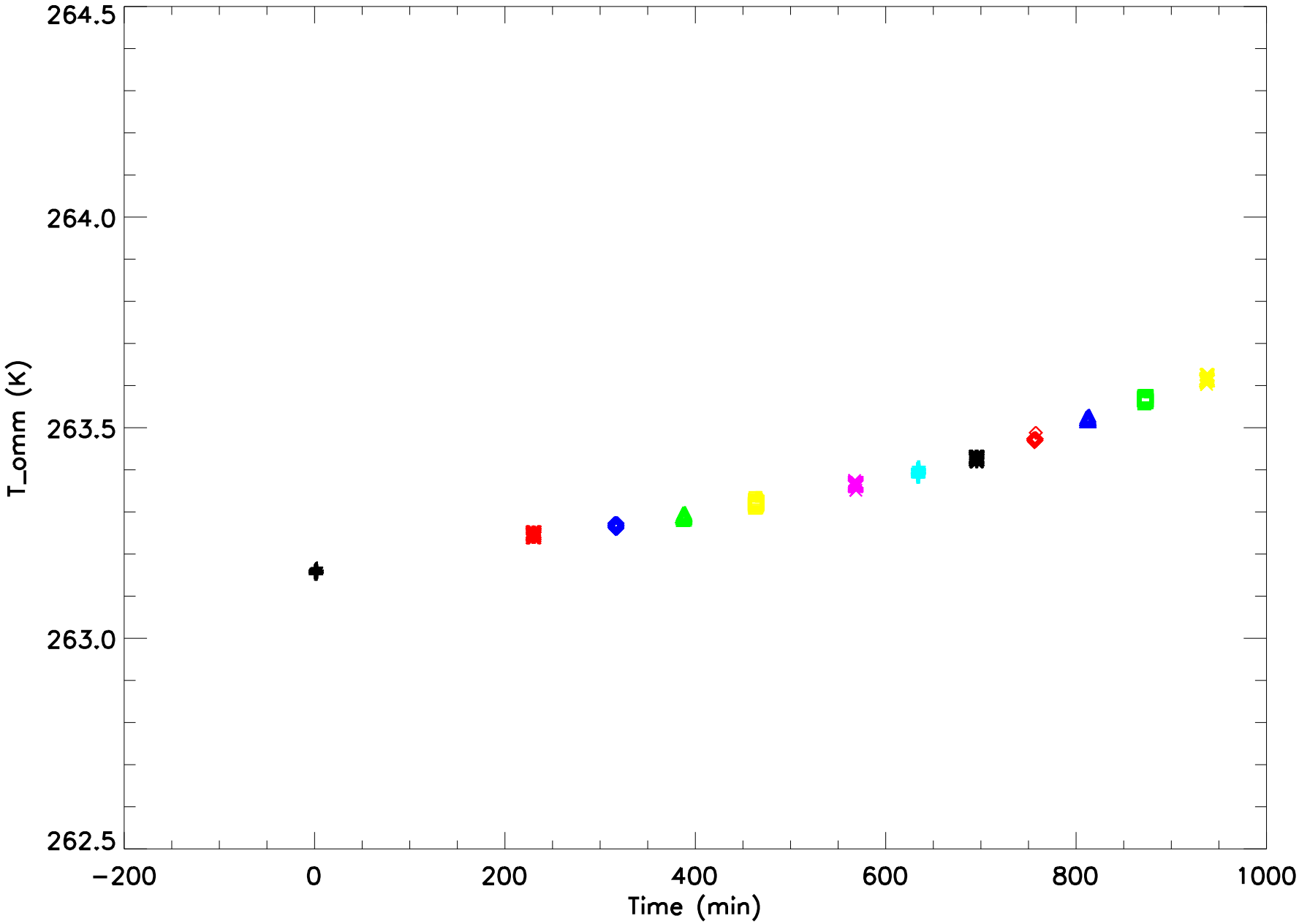

T_asp vs Scan: Collect=9
VisNIR
VisNIR T_asp (K)
286.78
286.76
286.74
286.72
286.70
286.68
286.66
286.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.84
284.82
284.80
284.78
284.76
284.74
284.72
284.70
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=10
VisNIR
VisNIR T_asp (K)
286.78
286.76
286.74
286.72
286.70
286.68
286.66
286.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.84
284.82
284.80
284.78
284.76
284.74
284.72
284.70
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan

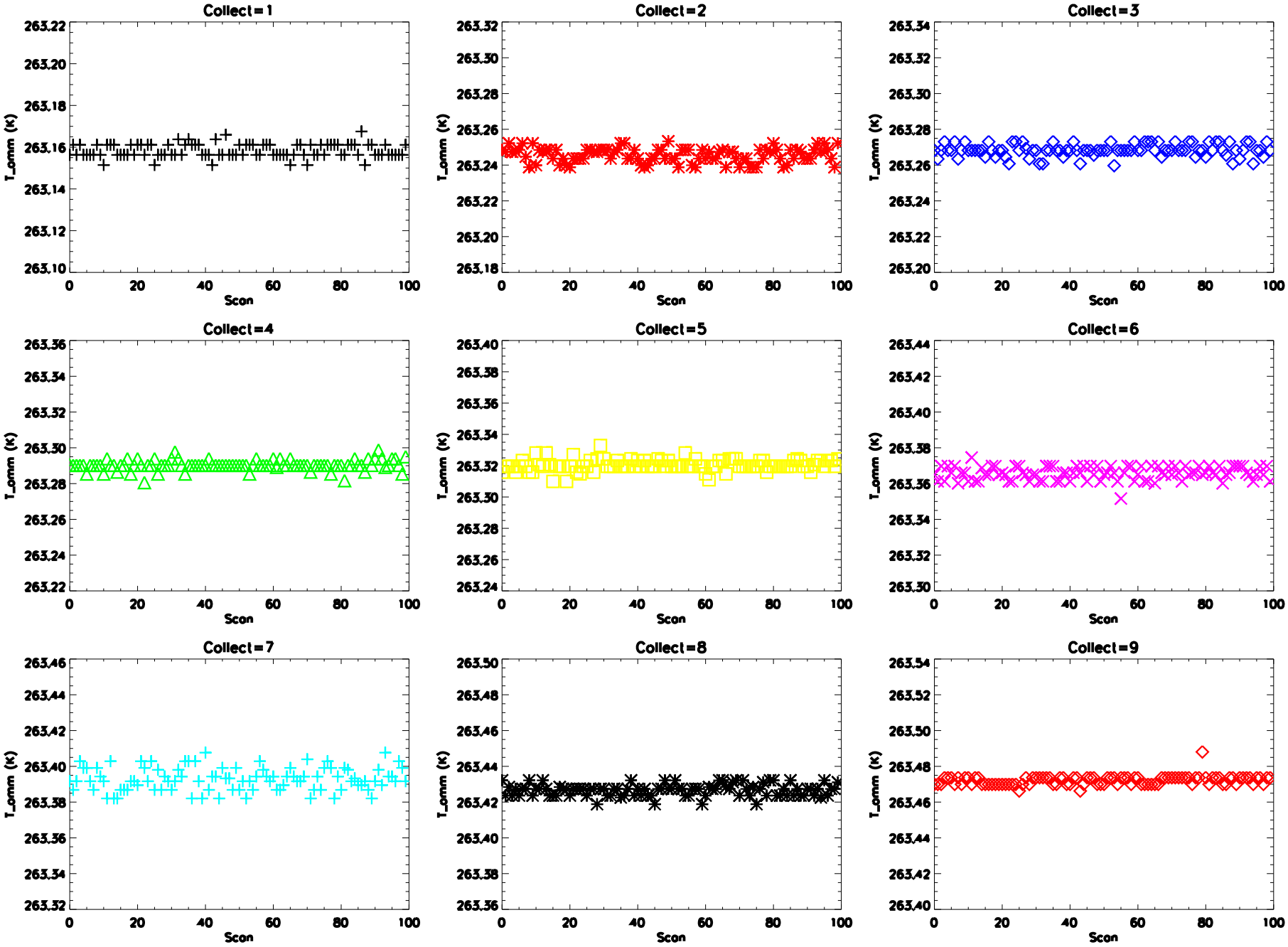

T_asp vs Scan: Collect=11
VisNIR
VisNIR T_asp (K)
286.78
286.76
286.74
286.72
286.70
286.68
286.66
286.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.84
284.82
284.80
284.78
284.76
284.74
284.72
284.70
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan


T_asp vs Scan: Collect=12
VisNIR
VisNIR T_asp (K)
286.78
286.76
286.74
286.72
286.70
286.68
286.66
286.64
0
20
40
60
80
100
Scan
SMWIR
SMWIR T_asp (K)
284.84
284.82
284.80
284.78
284.76
284.74
284.72
284.70
0
20
40
60
80
100
Scan
LWIR
LWIR T_asp (K)
286.58
286.56
286.54
286.52
286.50
286.48
286.46
286.44
0
20
40
60
80
100
Scan

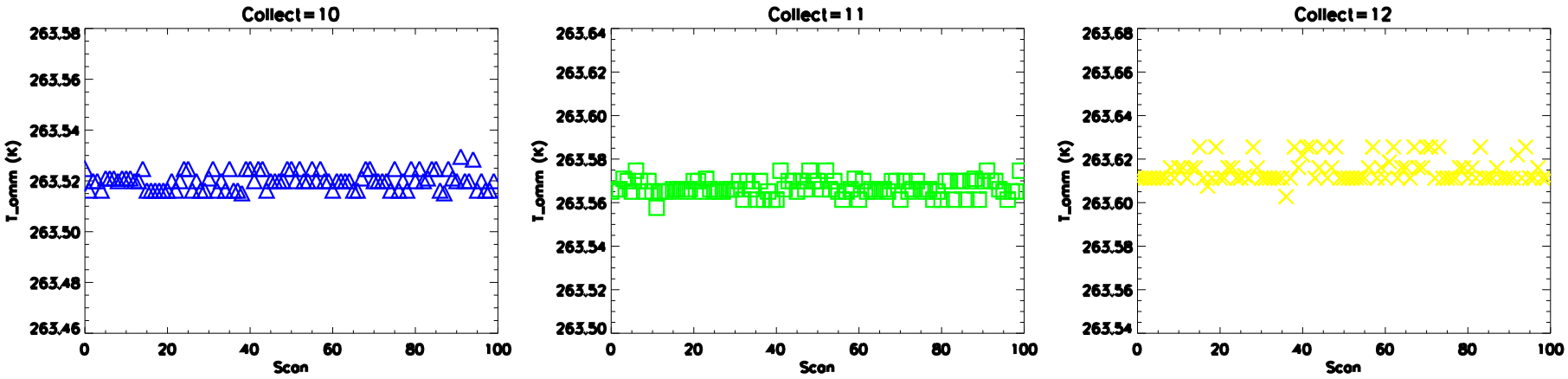

T_omm vs Scan and Collect
264.5
264.0
263.5
263.0
262.5
T_omm (K)
0
200
400
600
800
1000
1200
Collect*scan


T_omm vs Time
264.5
264.0
263.5
263.0
262.5
T_omm (K)
−200
0
200
400
600
800
1000
Time (min)

T_omm vs Scan


Collect=1
Collect=2
Collect=3
Collect=4
Collect=5
Collect=6
Collect=7
Collect=8
Collect=9
T_omm (K)
Scan

T_omm vs Scan


Collect = 10
T_omm (K)
263.58
263.56
263.54
263.52
263.50
263.48
263.46
0
20
40
60
80
100
Scan
Collect = 11
T_omm (K)
263.64
263.62
263.60
263.58
263.56
263.54
263.52
263.50
0
20
40
60
80
100
Scan
Collect = 12
T_omm (K)
263.68
263.66
263.64
263.62
263.60
263.58
263.56
263.54
0
20
40
60
80
100
Scan