

Video quality requirements and subjective assessment methods for network audiovisual programmes



	.....	III
1	.....	1
2	.....	1
3	.....	1
4	.....	1
5	.....	1
5.1	.....	1
5.2 480P	.....	2
5.3 576P	.....	2
5.4 720P	.....	2
5.5 1080P SDR	.....	3
5.6 1080P HDR	.....	3

□ □

GB/T 1.1—2020

1

SAC/TC 239

1

2

GY/T 353—2021

3

4

HDR	High Dynamic Range
MGC	Machine Generated Content
OGC	Occupationally Generated Content
PGC	Professional Generated Content
SDR	Standard Dynamic Range
UGC	User Generated Content

5

5.1

PGC UGC OGC MGC

GY/T 353—2021

1

1	480P	480P	2
2	576P	576P	3
3	720P	720P	4
4	1080P SDR	1080P SDR	5
5	1080P HDR	1080P HDR	6
6	4K SDR	4K SDR	7
7	4K HDR	4K HDR	8
8	8K HDR	8K HDR	9

5.2 480P

480P2

2 480P

		S	
1		$S \geq 68$	$53 \leq S \leq 68$
2		$S \geq 64$	$50 \leq S \leq 64$
3		$S \geq 51$	$40 \leq S \leq 51$
S	6	100	

5.3 576P

576P3

3 576P

		S	
1		$S \geq 72$	$56 \leq S \leq 72$
2		$S \geq 70$	$56 \leq S \leq 70$
3		$S \geq 60$	$48 \leq S \leq 60$
S	6	100	

5.4 720P

720P4

4 720P

		S	
1		$S \geq 80$	$62 \leq S < 80$
2		$S \geq 78$	$62 \leq S < 78$
3		$S \geq 70$	$55 \leq S < 70$
S	6	100	

5.5 1080P SDR

1080P SDR 5

7			
3		S	
		$S \geq 82$	

10

1			
2			1080P 3 4K 1.6 8K 0.8
3			1080P 3 4K 1.6 8K 0.8

6.2.2

11

11

1		SDR	≤ 0.15
		HDR	≤ 0.005
2			$\leq 5\text{cd/m}^2$
3			D ₆₅

6.3

1min

1min
5min

25% 50% 75% 1min

5min

6. 4

15

6.5

2

2

1

6.7

6.7.1

6.7.2

1

.....(1)

K _____

5

2

.....(2)

6.7.3

3

.....(3)

K —
 —
 —

6. 7. 4

95%

6 $\overline{\overline{K}}$

6. 7. 5

4

—(4)

$\overline{\overline{}}$				
9	i	P_i	Q_i	$j, k, = 1, 1 \quad J, K$
	1			
	9	$P_i = P_i + 1$		
	9	$Q_i = Q_i + 1$		
	$\overline{9}$	$P_i = P_i + 1$		
	$\overline{9}$	$Q_i = Q_i + 1$		
—	—	0.2	i	$K \quad J$

2 2 A

A.1 A.3

A 1

1		15.2cm 6in
2		≥ 1920 × 1080
3		BT.2020 71% BT.2020
4	a	1000cd/m ²
5	b	≥ 1000:1
6		≥ 200:1
7		
a	10%	100%
b		

A 2

1		68.58cm 27in
2		≥ 1920 × 1080
3		BT.2020 71% BT.2020
4	a	1000cd/m ²
5	b	≥ 2000:1
6		≥ 200:1
7		
a	10%	100%
b		

A 3

1		137.5cm 55in
2		≥ 1920 × 1080
3		BT.2020 71% BT.2020
4	a	1000cd/m ²
5	b	≥ 200000:1

A 3

6		$\geq 200:1$
7		
a	10%	100%
b		

□ □ □

- [1] GY/T 287—2014
 - [2] GY/T 340—2020
 - [3] T/CSMPTE 11—2021
 - [4] ITU-R BT.500-14 Methodology for the subjective assessment of the quality of television pictures
 - [5] ITU-T P.910 Subjective video quality assessment methods for multimedia applications
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