





13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

- 1.Set span = Zero
- 2. RBW = 10MHz
- 3. VBW = 10MHz,
- 4. Detector = Peak

13.4 Test Result

	1. In the second sec	
Test mode	Duty Cycle	Duty Fator (dB)
	100	0
802.11b	100	0
	100	0
	100	0
802.11g	100	0
	100	0
	100	0
802.11n(HT20)	100	0
	100	0
	100	0
802.11n(HT40)	100	0
	100	0



	Duty Cycle	st Graph NVNT b	s <u>2412MH</u> z			
ent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE	INT	ALIGNAUTO	AL DMC	04:12:23 PMN	ov 22, 2022
nter Freq 2.412000000 GHz	PNO: East +++ Tr	rig: Free Run Atten: 30 dB	#Avg Typ	e. RIVIS	DET	12345(WWWWW PNNNNI
Ref Offset 2.38 dB dB/div Ref 20.00 dBm					Mkr1 50. 11.91	00 ms IdBm
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enter 2.412000000 GHz es BW 8 MHz	#VBW 8.	0 MHz		Sweep	Spa 100.0 ms (100	an 0 Hz)01 ptsj
R MODE TRC SCL X	y) ms 11.91 dBm	FUNCTION	FUNCTION WIDTH	FL	JNCTION VALUE	
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						>
	Duty Cycle	NVNT b	status 2437MHz			
ent Spectrum Analyzer - Swept SA	Duty Cycle		2437MHz		04:12:45 000	
ent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	PNO: Fast	INT		e: RMS	04:12:45 PM N TRACE TYPE DET	
ent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Inter Freq 2.437000000 GHz	SENSE PNO:East ↔ Tr	INT	2437MHz	e: RMS	TRACE TYPE DET Mikr1 50.1	ov 22, 2022 1) 2 3 4 5 1 9 N N N N 00 ms
ent Spectrum Analyzer - Swept SA RL RF 50.Ω AC Inter Freq 2.437000000 GHz Ref Offset 2.39 dB Ref Offset 2.39 dB	PNO: Fast	:INT ig: Free Run atten: 30 dB	2437MHz	e: RMS	TRACE TYPE DET Mikr1 50.1	ov 22, 2022 1) 2 3 4 5 1 9 N N N N 00 ms
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ent Spectrum Analyzer - Swept SA RL RF 50 Q AC inter Freq 2.437000000 GHz Ref Offset 2.39 dB dB/div Ref 20.00 dBm	PNO: Fast	:INT ig: Free Run atten: 30 dB	2437MHz	e: RMS	TRACE TYPE DET Mikr1 50.1	ov 22, 2022 1) 2 3 4 5 6 ¹⁰ N N N N 10 N N N 00 ms
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ent Spectrum Analyzer - Swept SA RL RF 50.Ω AC inter Freq 2.437000000 GHz Ref Offset 2.39 dB B B B B C <thc< th=""> <thc< th=""> C <thc< th=""></thc<></thc<></thc<>	PNO: Fast IFGain:Low #VBW 8.	INT ig: Free Run ttten: 30 dB	2437MHz	Sweep	TRACE TYPE Der Mkr1 50. 11.72	an 0 Hz
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ent Spectrum Analyzer - Swept SA RL RF 50.2 AC mter Freq 2.437000000 GHz Ref Offset 2.39 dB B/div Ref 20.00 dBm Comparison Compariso	PNO: Fast IFGain:Low #VBW 8.	INT ig: Free Run ttten: 30 dB	2437MHz	Sweep	TRACE TYPE Der Mkr1 50.1 11.72	an 0 Hz



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enter Freq 2.462	Р		Trig: Free Run #Atten: 30 dB	#Avg Typ	e: KMS	1	RACE 12345 TYPE WWWWWW DET PNNNN
Ref Offset dB/div Ref 20.0						Mkr1 1:	50.00 ms 2.59 dBm
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R MODE TRC SCL	× 50.00 ms	ү 12.59 dB	FUNCTION	FUNCTION WIDTH	FL	JNCTION VALUE	_
	00.00 ms	12.00 ab					
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				to status			
	C	Duty Cycle	NVNT a	2442144			
		, ,					
			E:INT			04:13:2	9 PMNov 22, 2022
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RL RF 5 Inter Freq 2.412 Ref Offset	0 Ω AC 2000000 GHz P IFI :2.38 dB	SEN: NO: Fast ↔	SE:INT	ALIGNAUTO	e: RMS	Mkr1	
RL RF 50 enter Freq 2.412 Ref Offset dB/div Ref 20.0	0 Ω AC 2000000 GHz P IFI :2.38 dB	SEN: NO: Fast ↔	SE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	Mkr1	
RL RF SI Inter Freq 2.412 Ref Offset dB/div Ref 20.0	0 Ω AC 20000000 GHz P IFI 2.38 dB 0 dBm	SEN: NO: Fast ↔	SE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO	ve: RMS	Mkr1	
RL RF SI Inter Freq 2.412 Ref Offset dB/div Ref 20.0 9 0	0 Ω AC 20000000 GHz P IFI 2.38 dB 0 dBm	SEN: NO: Fast ↔	SE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	Mkr1	
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RL RF S	0 Ω AC 20000000 GHz P IFI 2.38 dB 0 dBm	SEN: NO: Fast ↔	SE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO #Avg Typ	e: RMS	Mkr1	
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RL RF S inter Freq 2.412 Ref Offset Ref Offset dB/div Ref 20.0 Ref 20.0 0	0 02 AC 000000 GHz P 12.38 dB 0 dBm 0 dBm 0 dBm 0 dBm	NO: Fast Gain:Low	SE:INT Trig: Free Run #Atten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1		Sweep	Mkr1	Span 0 Hz
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RL RF 50 S		SENSE:INT	ALIGN AUTO	04:13:47 PM Nov 22, 2022
enter Freq 2.4370		Fast ↔ Trig: Free Run :Low #Atten: 30 dB	#Avg Type: RM	S TRACE 12345 TYPE WAAAAAAA DET P N N N N
Ref Offset 2 dB/div Ref 20.00				Mkr1 50.00 ms 7.44 dBm
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es BW 8 MHz		#VBW 8.0 MHz		Sweep 100.0 ms (10001 pts
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lent Spectrum Analyzer - Sv		ty Cycle NVNT g	2462MHz	
RL RF 50 \$	wept SA Ω AC		ALIGNAUTO	04:14:07 PMNoy 22, 2022 S TRACE 112.34 5
RL RF 50 \$	wept SA Ω AC 1000000 GHz	SENSE:INT		
RL RF 505 enter Freq 2.4620 Ref Offset 2	wept SA Ω AC PNO: IOOOOOO GHZ IFGain: 2.42 dB	SENSE:INT	ALIGNAUTO	S TRACE 12345 TYPE WWWWWW DET PINNNN Mkr1 50.00 ms
RL RF 505 enter Freq 2.4620 Ref Offset 2 dB/div Ref 20.00	wept SA Ω AC PNO: IOOOOOO GHZ IFGain: 2.42 dB	SENSE:INT	ALIGNAUTO	S TRACE 12345 TYPE WWWWWW DET P N N N N
RL RF 505 enter Freq 2.4620 Ref Offset 2 dB/div Ref 20.00	wept.SA 2 AC 100000 GHz PNO: IFGain: 1.42 dB dBm	SENSE:INT	ALIGNAUTO	S TRACE 12345 TYPE WWWWWW DET PINNNN Mkr1 50.00 ms
RL RF 50 5 enter Freq 2.4620 Ref Offset 2 dB/div Ref 20.00 9 0	wept.SA 2 AC 100000 GHz PNO: IFGain: 142 dB dBm	SENSE:INT Fast Trig: Free Run :Low #Atten: 30 dB	ALIGNAUTO	S TRACE 12345 TYPE WWWWWW DET PINNNN Mkr1 50.00 ms
RL RF [50 3] enter Freq 2.4620 Ref Offset 2 dB/div Ref 20.00 9	wept.SA 2 AC 100000 GHz PNO: IFGain: 142 dB dBm	SENSE:INT Fast Trig: Free Run :Low #Atten: 30 dB	ALIGNAUTO	S TRACE 12345 TYPE WWWWWW DET PINNNN Mkr1 50.00 ms
RL RF [50 3] enter Freq 2.4620 Ref Offset 2 dB/div Ref 20.00 9	wept.SA 2 AC 100000 GHz PNO: IFGain: 142 dB dBm	SENSE:INT Fast Trig: Free Run :Low #Atten: 30 dB	ALIGNAUTO	S TRACE 12345 TYPE WWWWWW DET PINNNN Mkr1 50.00 ms
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RL RF 150 d enter Freq 2.4620 Ref Offset 2 B/div Ref 20.00 g Ref 20.00 Ref 20.00 Ref 20.00 g Ref	wept SA 200000 GHz PNO: IFGain 2.42 dB dBm 1.44	SENSE:INT Fast →→ Trig: Free Run #Atten: 30 dB	ALIGNAUTO #AUGNAUTO #AUGNAUTO#AUGNAUTO#AUGNAUTO#AU	S TRACE D 34 45 TYPE OF MINNIN Mkr1 50.00 ms 7.68 dBm
RL RF 150 d enter Freq 2.4620 Ref Offset 2 B/div Ref 20.00 g	wept SA 200000 GHz PNO: IFGain 2.42 dB dBm 1.44	SENSE:INT Fast Trig: Free Run :Low #Atten: 30 dB	ALIGNAUTO #AUGNAUTO #AUGNAUTO#AUGNAUTO#AUGNAUTO#AU	S TRACE D3 4 S TYPE MANAGEMENT OF PAIN NAME Mkr1 50.00 ms 7.68 dBm
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ilent Spectrum Analyzer - Sw RL RF 50 Ω	2 AC	SENSE:INT		ALIGNAUTO	THE		MNov 22, 2022
enter Freq 2.4120	PNO		Free Run n: 30 dB	#Avg Type	e: RMS	TRA TY D	CE 123456 PE WAAAAAAA ET P N N N N N
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dB/div Ref 20.00	авт		1				
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enter 2.412000000 es BW 8 MHz	GHz	#VBW 8.01			Sween	s 100.0 ms (1	pan 0 Hz
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5 6 7							=
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1				T STATUS			
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lent Spectrum Analyzer - Sw		y Cycle NV	'NT n2(
RL RF 50 S	Vept SA 2 AC) 2437MHz alignauto		04:15:28 P TRA	MNov 22, 2022
RL RF 50 S	rept SA 2 AC 00000 GHz PN0	SENSE:INT) 2437MHz		TRA TY	CE 12345 (PE WWWWWW
RL RF 50 S enter Freq 2.4370 Ref Offset 2.	AC A	SENSE:INT	Free Run) 2437MHz alignauto		TRA TY D Mkr1 5	0.00 ms
RL RF 50 £ enter Freq 2.4370 Ref Offset 2.	AC A	SENSE:INT	Free Run n: 30 dB) 2437MHz alignauto		TRA TY D Mkr1 5	CE 12345 (PE WWWWWW ET PNNNN
RL RF 50 S enter Freq 2.4370 Ref Offset 2. dB/div Ref 20.00	AC A	SENSE:INT Fast Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type	e: RMS	TRA TY D Mkr1 5	CE 12345 (PE WWWWW ET P NNNN 0.00 ms 98 dBm
RL RF 50 S enter Freq 2.4370 Ref Offset 2. dB/div Ref 20.00 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC A	SENSE:INT Fast Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type	e: RMS	TRA TY D Mkr1 5 4.	CE 123456 PE WWWWW ET PNNNN 0.00 ms 98 dBm
RL RF 50 S enter Freq 2.4370 Ref Offset 2 dB/div Ref 20.00	AC A	SENSE:INT Fast Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type	e: RMS	TRA TY D Mkr1 5 4.	CE 123456 PE WWWWW ET PNNNN 0.00 ms 98 dBm
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RL RF 50 G enter Freq 2.4370 Ref Offset 2. dB/div Ref 20.00 g g g	AC A	SENSE:INT Fast Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type	e: RMS	TRA TY D Mkr1 5 4.	CE 123456 PE WWWWW ET PNNNN 0.00 ms 98 dBm
RL RF 50 G enter Freq 2.4370 Sector Sector Ref Offset 2. Sector Sector dB/div Ref 20.00 Sector 9 Sector Sector 10 Sector Sector	AC A	SENSE:INT Fast Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type	e: RMS	TRA TY D Mkr1 5 4.	CE 123456 PE WWWWW ET PNNNN 0.00 ms 98 dBm
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RL RF S0 G enter Freq 2.4370 Ref Offset 2. Ref 20.00 gg references Ref 20.00 Ref 20.00 gg	rept SA 2 AC DOUBLE 2 AC PRO PRO FGa 39 dB dBm 4 Control of the second s	SENSE:INT Fast Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type		TRA TY D Mkr15 4.	er 12 3 4 5 6 eventue er P NNNN 98 dBm 98 dBm
RL RE S0 G enter Freq 2.4370 Ref Offset 2. dB/div Ref 20.00 G g g G G g g G G g g G G G g g G G G g g G G G g g G G G g g G G G g g G G G g g G G G g g G G G g g G G G g g G G G G g g G G G G G g G G G G G G G G G G G G G G	xept SA AC AC AC AC PNO IFGa 339 dB dBm A A A A A A A A A A A A A	SENSE:INT : Fast + Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz Alignauto #Avg Type	E RMS	TRA TY D Mkr15 4.	er 12 3 4 5 6 eventue er P NNNN 98 dBm 98 dBm
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RL RF S0 4 enter Freq 2.4370 Ref Offset 2 Ref 20.00 g ref to broke a tobal	xept SA AC AC AC AC PNO IFGa 339 dB dBm A A A A A A A A A A A A A	SENSE:INT : Fast + Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz ALIGNAUTO #Avg Type	E RMS	TRA TY D Mkr1 5 4. 100.0 ms (1	er 12 3 4 5 6 eventue er P NNNN 98 dBm 98 dBm
RL RF 50 G enter Freq 2.4370 Ref Offset 2. dB/div Ref 20.00 9 enter Set 2. 00 enter Set 2. 010 enter Set 2. 020 enter Set 2. 030 enter Set 2. 04 enter Set 2. 05 enter Set 2. 06 enter Set 2. 07 enter Set 2. 08 BWB 8 MHz 08 enter Set 2.	xept SA AC AC AC AC PNO IFGa 339 dB dBm A A A A A A A A A A A A A	SENSE:INT : Fast + Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz ALIGNAUTO #Avg Type	E RMS	TRA TY D Mkr1 5 4. 100.0 ms (1	er 12 3 4 5 6 eventue er P NNNN 98 dBm 98 dBm
Ref Offset 2, dB/div Ref 20.00 dB/div Ref 20.00 df 20	xept SA AC AC AC AC PNO IFGa 339 dB dBm A A A A A A A A A A A A A	SENSE:INT : Fast + Trig: in:Low #Atte	Free Run n: 30 dB) 2437MHz ALIGNAUTO #Avg Type	E RMS	TRA TY D Mkr1 5 4. 100.0 ms (1	er 12 3 4 5 6 eventue er P NNNN 98 dBm 98 dBm

2. CO.,LTA



Ient Spectrum Analyzer - Sv RL RF 50 S		SENSE:II	T	ALIGN AUTO		04:15:4	7 PM Nov 22, 2022
enter Freq 2.4620	PNC		g: Free Run ten: 30 dB	#Avg Type	: RMS	Т	RACE 12345 6 TYPE WWWWWWW DET PNNNN
Ref Offset 2		III.LOW III.				Mkr1	50.00 ms
dB/div Ref 20.00	dBm		.1			4	4.60 dBm
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		ty Cycle N	VNT n4) 2422MHz			
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RL RF 505 enter Freq 2.4220	VEPT SA 2 AC 00000 GHz PNC IFGa	SENSE:II	NT) 2422MHz Alignauto		Mkr1	
RL RF 503 enter Freq 2.4220 Ref Offset 2 dB/div Ref 20.00	xept 5A 2 AC 000000 GHz PNC IFGa .38 dB	SENSE:II	ut g: Free Run) 2422MHz Alignauto		Mkr1	
RL RF 50 5 enter Freq 2.4220 Ref Offset 2 dB/div Ref 20.00	xept 5A 2 AC 000000 GHz PNC IFGa .38 dB	SENSE:II	ut g: Free Run) 2422MHz Alignauto		Mkr1	RACE 1 2 3 4 5 6
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l <mark>ent Spectrum Analyzer - Sw</mark> RL RF 50 ଜ	AC 00000 GHz	SENSE:IN	Т	-	: RMS		6 PMNov 22, 2022
l <mark>ent Spectrum Analyzer - Sw</mark> RL RF 50 ଜ	AC AC PNO	SENSE:IN) 2452MHz alignauto	: RMS	Т	6 PMNov 22, 2022 RACE 1 2 3 4 5 6 TYPE WAAAAAAA DET P. N. N. N. N
Ient Spectrum Analyzer - Sw RL RF 500 enter Freq 2.45201 Ref Offset 2. dB/div Ref 20.00	ept SA AC 000000 GHz PNO IFGai 41 dB	SENSE:IN	T : Free Run) 2452MHz alignauto	: RMS	Mkr1	6 PMNov 22, 2022 RACE 1 2 3 4 5 6 TYPE WARAAAAA
lent Spectrum Analyzer - Sw RL RF 50 G enter Freq 2.45201 Ref Offset 2. dB/dlv Ref 20.00	rept SA 2 AC DOUBLE PNO IFGai 41 dB dBm	SENSE:IN P: Fast ++ Trig in:Low #Atto	T : Free Run) 2452MHz alignauto	RMS	Mkr1	5 PMNov 22, 2022 RACE 1 2 3 4 5 6 TYPE WWWWWW DET P. N N N N 50.00 ms
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Normal S.



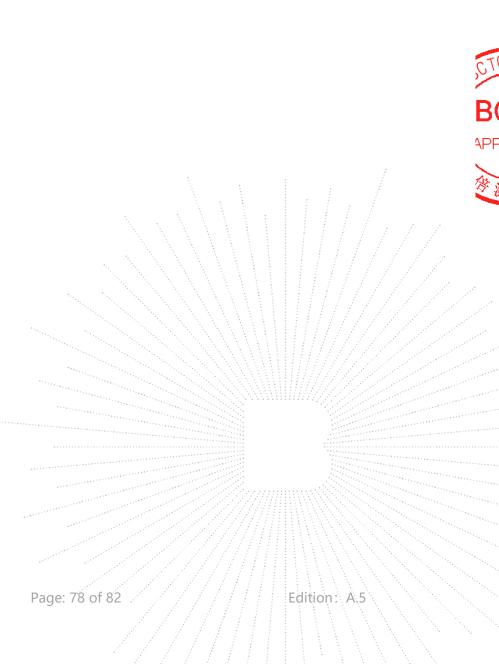
14. Antenna Requirement

14.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.1 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.





15. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details



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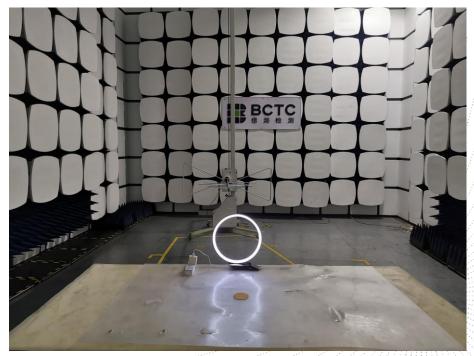


16. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos





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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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P.C.: 518103

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******** END ******

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