EMISSION LIMITATIONS MEASUREMENT 8

	The following test equipment was used during the emission limitations test:					
Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

8.1 Test Equipment

C 11 .

8.2 **Block Diagram of Test Setup**

The Same as Section, 5.2.

8.3 Specification Limits (§15.247(d))

> In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

> In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). (*X* This test result attaching to Section. 4.7)

8.4 **Operating Condition of EUT**

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

8.5 **Test Procedure**

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum PSD level. Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest

Scan up through 10th harmonic.

emissions relative to the limit.

The test procedure is defined in ANSI C63.10-2013 (11.11.2 Reference level measurement and 11.11.3 Emission level measurement was used).

For Emissions Testing of Transmitters with Multiple Outputs in the Same Band: Per KDB 662911 D01 Multiple Transmitter Output v02r01, section E).3).b), The out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 $log(N_{ANT})$ if the measurements are made relative to the in-band emissions on the individual outputs.

8.6 Test Results

PASSED.

The test data was attached in the next pages.

(Test Date: 2024.04.03-14	Temperature: 23°C	Humidity: 51 %)

Mode	Transmit Port	Channel	Frequency (MHz)	Data Page
		1	2412	P81
802.11b	CNF2	6	2437	P82
		11	2462	P83
		1	2412	P84
802.11g	CNF2	6	2437	P85
		11	2462	P86
		1	2412	P87
802.11n20	CNF2	6	2437	P88
		11	2462	P89
		3	2422	P90
802.11n40	CNF2	6	2437	P91
		9	2452	P92
		1	2412	P93
802.11b	CNF3	6	2437	P94
		11	2462	P95
		1	2412	P96
802.11g	CNF3	6	2437	P97
		11	2462	P98
		1	2412	P99
802.11n20	CNF3	6	2437	P100
		11	2462	P101
		3	2422	P102
802.11n40	CNF3	6	2437	P103
		9	2452	P104

802.11b							
CNF2							
CH2412							
Reference Leve	1			Lower Edg	e		
Ref Offset 21 dB	SENSE.INT 2. 5. Fast aincl.ow Trig: Free Run Atten: 10 dB	Align Auto (0155:01 PM Arros, 202 Avg Type: Log-Pwr Avg Hold:>100/100 Two (22 arr Corr 100 Corr 100 Co	Auto Tune	Keydakt Spectrum Analyzer - Snel Keydakt Spectrum Analyzer - Snel Keydakt Spectrum Analyzer - Snel Snel Keydakt Spectrum Analyzer - Snel Sn	37434 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 10 dB	AUSH AUTO (013646 PH Apr02) Avg Type: Log-Pwr Avg(Hoid>100100 Mkr2 2.398 950 G -35.373 dE	Select Marker
10 diskdiv Ref 20.00 dBm	and the second s		Center Freq 2.41200000 GHz Start Freq 2.39200000 GHz	10 dB/div Ref 20.00 d Log 0.00 -10 0 -10 0 -10 -10 0 -10 0 -10 -10 -10 -10 -10 -10 -10 -10 -10 -1	18m		Norma
		Laurenting	Stop Freq 2.43200000 GHz 4.00000 MHz Auto Man Freq Offset 0 Hz	Center 2.40000 GHz #Res BW 100 KHz 1 N 1 f 3 4	#VBW 300 kHz 2.400 000 GHz 37.139 dBm 2.399 950 GHz 35.373 dBm	Span 100.0 N Sweep 9.598 ms (4000 p Junction II Function Work) Function Value	ots) O
700 Center 2.41200 GHz FRes BW 100 kHz	#VBW 300 kHz	Span 40.00 MH Sweep 3.999 ms (4000 pts	Scale Type	5 7 8 9 9 10 11 11	9	STATUS	Mor 1 of
Emission Level	SENSE:INT	ALION AUTO 0159-23 PM April3, 202 Avg Type: Log-Pvr TRACe 10 pcr Avg[Hold:>100/100 trve to the transition pcr Public to the transition	Select Marker	Krysight Spectrum Analyzer - Swe U L RF S50 2 Marker 3 23.7509377	ver SA DC SINSE_INT[734434 GHz IFGainsLow Atten: 10 dB	ALISH AUTO 02:93:44 PH Apr03; Avg Type: Log-Pwr Trace pt 2 Avg[Hold>100/100 Tree pt 2 CET Pt 2	Select Marker
Ref Offset 21 dB 0 dB/div Ref 20.00 dBm		Mkr3 8.357 0 GH: -54.601 dBn		Ref Offset 21 10 dB/div Ref 20.00 d 10 0	dB IBM	Mkr3 23.751 G -49.917 dE	
10 0 20 0 30 0 40 0	^2	ELL ASSESS	Delta	-10.0 -20.0 -30.0 -40.0			Deit
80.0 100 0 70 0			Fixed⊳	-60.0 -70.0		an a	Fixed
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RK MODE THC SCL X 1 N 1 f 1.665 1 2 N 1 f 4.824 1 3 N 1 f 8.357 (4 5	GHz -57.297 dBm GHz -49.729 dBm		Properties►	1 N 1 f 2 N 1 f 3 N 1 f 4 5	13.931 GHz -54.678 dBm 19.812 GHz -52.554 dBm 23.751 GHz -49.917 dBm		Properties
6 7 8 9 9			More 1 of 2	6 7 8 9 9 10 11			Mor 1 of
50	29	STATUS		NSG	8	STATUS	

802.11b							
CNF2							
CH2437							
Reference Level							
PNO: Fast Trig: Free Run A IFGainLow Atten: 10 dB Ref Officet 21 dB	Vg[Hold:>100/100 TYPE NUMBER OF PROVIDENT	equency Auto Tune					
100	NM CL-13 64.000 2.437 NM CL-13 64.000 2.457 LAMARE Auto 4 LAMARE Auto 4	stor Freq Stor Freq Stor Freq Stop Freq CF Step 000000 GHz CF Step 000000 HHz Man Freq Offset 0 Hz Scale Type Lin					
Emission Level							
Reyreight Spectrum Analyzer - Snegt SA W L PF 196 0 C Marker 3 7.122935733933 GHz PND: Fast C IFGein5.ow Trig: Free Run Atten: 10 dB	vg Hold:>100/100 Trife Manual Sele	00	Keylight Spectrum Analyzer - Swept L SF 50 0 0 arker 3 23.54088522	DC SENSE:1N	Avg Type: Log-Pwr Avg Hold:>100/100		Marker Select Marker
Ref Offset 21 dB 10 gBldty 100 100 100 100 100 100 100 10	Mkr3 7.122 9 GHz -54.675 dBm	Normal Detta FixedD	Ref Offset 21 df Ref 20.00 dB 20 20 20 20 20 20 20 20 20 20 20 20 20	3 m	²	kr3 23.541 GHz -49.520 dBm Rt 394 db 3 -44-54 db -44-54 db -44-54-54 db -44-54 db -44-54-54 db -44-54-54 db -44-54-5	3 Normal Delta Fixedi-
#Res BW 100 kHz #VBW 300 kHz	Sweep 953.1 ms (4000 pts)	on	Res BW 100 kHz	#VBW 300 kHz X Y 13.860 GHz -53.808 dBm	FUNCTION FUNCTION WIDTH	1.434 s (4000 pts)	no
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802.11b		
CNF2		
CH2462		
Reference Level		Higher Edge
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PNO: Fast Trig: Free Run Avg IFGain:Low Atten: 10 dB	ALIGN ANTO (01-938 PM Apr03, 2024 D Type: Logo-Pwr (Hold > 100100 Type: Logo-Pwr Cell * Market Mkr3 8, 112 7 GHz Mkr3 8, 112 7 GHz	Marker 3 Ref Offset 21 dB Ref Offset 21
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	······	Fixed> 50.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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		More 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
2 contraction (1997)	STATUS	* * VSC STATUS

302.11g	
CNF2	
CH2412	
Reference Level	Lower Edge
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Scale Type Senter 2.41200 GHz FRes BW 100 kHz Sweep 3.999 ms (4000 pts) STATUS Emission Level Key By Soo CC Arker 3 8.0528/33210803 GHz PRO: Fare Run ArgType: Log-Pwr Thick Type Thick Type Sweep 3.999 ms (4000 pts) Status Marker Status Sta	Nortight Spectrum Analyzer- Swegt SA Strister Strister Strister Marker 323.5523203102 CHiz PNO: Fast Trig: Free Run ArgiNold:>100100 Aug Type: Log-Pwr Trixcc Trig: Select Marker Marker 323.5523203102 CHiz Select Marker Marker 323.5523203102 CHiz Select Marker Marker 323.5523203102 CHiz Select Marker Marker 323.5523203102 CHiz Select Marker
Ref Offset 21 dB Mkr3 8.062 8 GHz 3 10 dBidity -55.314 dBm -55.314 dBm Delta <	100 100 300 400 300 400 300 400 300 400 300 400 500 400 500 400 500 400 500 400 500 5
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	802.11g	
	CNF2	
<figure></figure>	CH2437	
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Emission Level Marker 3 8.005/2538141342 CH2 4 44.55 chm Arrow Boot 100 Charles Arrow Boot	Center Freq 2.437000000 GHz Stream Augure 10 (22133) 44 (22.204) Product Factor Trig: Free Run Augure 10 (22133) 44 (22.204) Indication Trig: Free Run Augure 10 (22133) 44 (22.204) Indication Trig: Free Run Augure 10 (22.13) 44 (22.204) Indication Trig: Free Run Augure 10 (22.13) 44 (22.204) Indication Ref Offset 21 dB (2.437000000 GHz) Center Freq 2.437000000 GHz Indication Indication Statt Freq 2.43700000 GHz Indication Indication Indication Indication Indication Indication I	
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3 3	Start 30 MHz Stop 10.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 953.1 ms (4000 pts) Off	Start 10.000 GHz Fixed #Res BW 100 kHz \$Stop 25.000 GHz Grad \$Stop 25.000 GHz
BG STATUS	More 10	More 10

802.11g					
CNF2					
CH2462					
Reference Level			Higher Edge		
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Emission Level	S055E1NTI ALION AUTO [02:25:09 PM Agros, Avg Type: Log-Pwr Trig: Pree Run Atten: 10 dB Avg Type: Log-Pwr AvgHold>100100 Third: BTa Trig: Pre- Atten: 10 dB Mkr38, S910 5 G -55:015 dB	Select Marker	Kestight Spectrum Andycer - Swept SA SENSE.NT Aarker 3 23.642160540135 GHz Trig: Free Run IFGainclow Bildiy Ref Offset 21 dB 00 Bildiy 00 00 00 00	ALION AUTO [0228:52 PH Apr:03, 2024 Avg Type: Log-Per Avg]Hold:>100100 Mkr3 23, 242 GHz -50, 195 dBm	Marker Select Marker 3 Norm
300 400 400 400 400 400 400 400		pts) Off	100 000 0Hz RRES BW 100 kHz #VBW 300 kHz	2 Stop 25.000 GHz Sweep 1.434 s (4000 pts)	Del Fixed
MRI MODE THC' SCL X 1 N 1 1 1 1660 4 GHz 4 2 N 1 7 4.986 3 GHz 4 3 N 1 7 8.910 5 GHz 4 5 5 6 7	Y FUNCTION FUNCTION WOTH FUNCTION WILLIE FUNCT	Properties>	MOR MOR F 13.687 CHc 564 456 BBm 2 N 1 f 13.687 CHc -564 456 BBm 3 N 1 f 19.782 CHz -51.798 dBm 4 N 1 f 23.642 CHz -50.195 dBm 5 7 7 7 7 50.195 dBm 50.195 dBm	RUNCTION PUNCTION HIDTH PUNCTION VILUE	Properties
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802.11n20						
CNF2						
CH2412						
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Genter Fred 2.412000000 Ghz	equency Marker	Pectrum Analyzer - Swept SA RF 50 9 DC 2 2,399799949988 GHz	SENSE: INT	ALIGN A/TO 05 Avg Type: Log-Pwr Avg Hold:>100/100	TYPE NWWWWW	Marker
PNC: Fast Trig: Free Run AvgiHeid>100/100 Trig Must we IFGainLow Atten: 10 dB Mkr1 2.413 245 GHz 0 dBldlv Ref 20.00 dBm 5.173 dBm	Auto Tune	Ref Offset 21 dB Ref 20.00 dBm	: Fast 😱 Trig: Free Run n:Low Atten: 10 dB	Mkr2 2.3	99 800 GHz 27.918 dBm	ect Marker
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Reption and a constraint of	Start Freq 2000 2000000 GHz 300		2/	Internet	DCT-54 (0) office	Delta
	Stop Freq (0.0	لېرې د اطور مېرون کې بطوم د ده مېرو کو کې و. او واله ا	All and a second designed and a second des		Hale Carlo Barrison	Fixed
	.000000 MHz #Res BV	.40000 GHz / 100 kHz	#VBW 300 kHz	S Sweep 9.598	pan 100.0 MHz ms (4000 pts)	no
500 Aut	Man MKR MODE 1 N Freq Offset 3	RC SCL X 1 1 2.400 000 C 1 1 2.399 800 C	7 F 3Hz -30.988 dBm 3Hz -27.918 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Properties
70.0	0 Hz 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					Mor
Center 2.41200 GHz Res BW 100 kHz #VBW 300 kHz Sweep 3.999 ms (4000 pts)	Lin 9 10 11			STATUS		1 of:
Emission Level				314103		
Keynight Spectrum Analyzer - Swept SA T	UN T	pectrum Analyzer - Swept SA RF 50 Ω DC	SENSE:INT	ALIGN AUTO 05	26:26 PM Apr 12, 2024	Marker
	ect Marker		Fast Trig: Free Run n:Low Atten: 10 dB		23.665 GHz	ect Marker
Ref Offset 21 dB MKR3 7, 186 9 GHZ 0 dBidity -55,637 dBm	Normal	Ref Offset 21 dB Ref 20.00 dBm			50.098 dBm	Norma
	-10.0 -20.0 Delta				545-34-63-684	Deit
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000 000 000 000 000 000 000 000 000 00	Fixed ▷ -70.0 -70.0 Start 10.	000 GHz		St	op 25.000 GHz	Fixed
Res BW 100 kHz #VBW 300 kHz Sweep 953.1 ms (4000 pts) w/r Mode TRC ScL x Y Function Function winthing	Off #Res BV MRR MODE 1 N 2 N 3 N	/ 100 KHz RC SCL X 13 691 (3Hz -54 736 dBm	Sweep 1.4	S4 s (4000 pts)	01
1 N 1 f 1.819 t GHz .57.394 dBm 2 N 1 f .38.98 GHz .57.394 dBm 3 N 1 f .7.186 5 GHz .55.937 dBm 6	Properties ► 4 5 6 7	1 f 18.822 (1 f 23.665 (3Hz -50.098 dBm			Properties
	More 8 9 1 of 2 10 11					Mor 1 of
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302.11n20					
CNF2					
CH2437					
Reference Level					
Center Freq 2.437000000 GHz PRO: Fast IFGainLow Ref Offset 21 dB Ref 20.00 dBm PRO: Fast Ref Offset 21 dB Ref 20.00 dBm	Run dB Avg/Hold:>100/100 Total B Mkr1 2.438 245 GHz 5.286 dBm 2.43 1 1 1 1 1 2.43 2.43 1 1 1 1 1 2.43 2.43 2.43 1 1 1 1 1 1 2.43 2.43 1 1 1 1 1 1 2.43 2.43 1 1 1 1 1 1 2.43 2.43 1 1 1 1 1 1 2.43 2.41 1 1 1 1 1 1 2.41 2.41 1 1 1 1 1 1 1 1 2.41	Auto Tune Center Freq 3700000 GHz Start Freq 1700000 GHz Stop Freq 5700000 GHz CF Step 4.00000 MHz Man Freq Offset 0 Hz Scale Type			
Kostight Spectrum Andjær - Swigt SA SR SR	Run Avg Hold:>100/100 Tret	Marker Marker 10 dB/div Ref 2000 Ref Offset 21 10 dB/div Ref 20.00 10 dD/div Ref 20.00	723181 GHz PNO: Fast C IFGain:Low Atten: 10 dB	ALIGN AUTO [05:42:06 PM Agr 12, 2024 Avg Type: Log-Pwr Avg Hold>100100 Mkr3 23:571 GHz -51.533 dBm	Marker Select Marke
		Normal 0.00 Deita 3.00 Bita 50.0 Fixedi> 60.0	¹	сст за 77 аве	De Fixe
70.0 start 30 MHz Res BW 100 kHz #VBW 300 kHz	Stop 10.000 GHz Sweep 953.1 ms (4000 pts)	-70.0 Start 10.000 GHz Off #Res BW 100 kHz	#VBW 300 kHz	Stop 25.000 GHz Sweep 1.434 s (4000 pts)	
Res Carl 100 RHz we New 300 RHz 1 N 1 f 1 547 1GHz 55905 dl 2 N 1 f 5425 GHz -55905 dl 3 N 1 f 5425 GHz -55180 dB 5 G 6 G 7 J	FUNCTION FUNCTION WIDTH FUNCTION VALUE	Properties - More 9		SWEED 1.4.3.4.5 (4000 pts) DON PUNCTION WOTH PUNCTION V4UE TON PUNCTION V4UE F	Propertie
	STATUS	1 of 2		status , •	10

802.11n20	
CNF2	
CH2462	
Reference Level	Higher Edge
Registed Section Analyse - Swept SA Sector 1 AUSP A/TO OSS Center Freq 2.462000000 GHz PNO: East PNO: East Frain: Co Trig: Free Run Atter: 10 dB Avg Type: Log-Pwr Atter: 10 dB	45.00 PM Apr 12, 2024 Frequency Marker 2 2,4183500000000 GHz PVC Fast Trig: Free Run Avg Type: Log-Pwr Trive: P2 44.00 Trig: Free Run A
Ref Offset 21 dB Mkr1 2.4	63 255 GHz 5.258 dBm
100 1100 1100 1100 1100 1100 1100 1100	Center Freq 100 000 Normal 100 Normal
-800	Start Freq 300 013004000 Delta 2.442000000 GHz 400
	Stop Freq 2.48200000 GHz Stop Freq 2.48200000 GHz Genter 2.48350 GHz Span 100.0 MHz CF Step 4.000000 MHz Center 2.48350 GHz Span 100.0 MHz
	Auto Man INR MODE TRC SCI X Y FUNCTION FUNCTION WOTH FUNCTION VALUE
48.0	1 N 1 7 243 560 GHz 42 392 dBm Freq Offset 3 1 7 2483 600 GHz 42 392 dBm 0 Hz 5 4 42 392 dBm 9 9
	Scale Type 2 More 10 10 10 10 10 10 10 10 10 10 10 10 10
Center 2.46200 GHz Sp #Res BW 100 kHz #VBW 300 kHz Sweep 3.999 	an 40.00 MHz Log Lin 101 1012
Emission Level	
Marker 3 8.091514128532 GHz Avg Type: Log-Pwr PNO: Fast C Trig: Free Run Avg Hold:>100/100	49:09 PM Ar 12, 2224 Trice ID 2 4 5 Marker Trice ID 2 4 5 Marker Select Marker Select Marker Select Marker
Ref Offret 21 dB Mkr3 8	Det PARMAN Select Marker Difference Atten: 10 dB Det PARMAN Select Marker
000	Normal
	COSCUERE Delta
	Fixed 2 Fixed 2
Start 30 MHz Stor #Res BW 100 kHz #VBW 300 kHz Sweep 953.1	
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10 m	

NF2	
12422	
eference Level	Lower Edge
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Ref Offset 21 dB Mkr1 2.416 989 GHz Auto Ref 20.00 dBm -0.257 dBm	Tune Ref Offset 21 dB Select Market 2,396 174 GHz 2
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WANTAN WANTAN AND A CONTRACT OF A CONTRACT O	Step Center 2.40000 GHz Span 100.0 MHz 0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.598 ms (4000 pts) O
Freq	Man More Mode TRC: ScL X Y Function Function Function width
Scale	0 Hz 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
ter 2.42200 GHz Span 80.00 MHz Log BW 100 kHz #VBW 300 kHz Sweep 7.731 ms (4000 pts)	Lin 10
STATUS	Mig (status)
nission Level	🖉 🔤 Koylajdi Spectrum Analyzer - Swept SA
T RF S0 g. Dc SENSEINT ALGR AUTO [041490 PH 671, 2024] Market Kor: 3 7.246345336334 GHz PNO: Fast IFGaind.ow Trig: Free Run Atten: 10 dB Avg Type: Log-Pwr Avg[Moid>100/100 Trice I a 44 trice I a 44 or I Avg[Moid>100/100 Trice I a 44 trice I a 44 or I Avg[Moid>100/100 Select Mu	riter BGalactow Atten: 10 dB
Ref Offset 21 dB Mkr3 7,246 3 GHz Bidity Ref 20.00 dBm -54.333 dBm	3 Mkr3 23.668 GHz 10 dB/div Ref 20.00 dBm -50.306 dBm
	Next Pk Rig
	Delta 000 01-02 030 01-02 030
un and the second se	ixed⊳
t 30 MHz Stop 10.000 GHz s BW 100 kHz #VBW 300 kHz Sweep 953.1 ms (4000 pts)	Start 10.000 GHz Stop 25.000 GHz WBW 300 kHz Sweep 1.434 s (4000 pts)
MODE TRC: SCU X Y Function Function Function Function Function Watter Function	INFR MODE TRC: SCL: X Y Function Function width Function width 1 N 1 f 13.998 GHz -54.712 dBm Function width Function
	4 More 4 More 1
	More 1 of 2 1 of

802.11n40			
CNF2			
CH2437			
Reference Level			
IFGain:Low Atten: 10 dB	alion Auto (91-53-57 PM April 2, 2024) g Type: Log-Pwr THACE (10-54 T) gilfold>100/100 THE Frequency Mkr1 2.431 989 GHz Auto Tune		
o dBddiv Ref 20.00 dBm 100 100 100 100 100 100 100 10	-0.075 dBm Center Freq 2.43700000 GHz J.I.I.T. Start Freq		
100	2.39700000 GHz		
-300 200 200 	CF Step B 000000 MHz Auto Freq Offset O Hz		
Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz ucc	Span 80.00 MHz Sweep 7.731 ms (4000 pts)		
Emission Level		F	
IFGain:Low Atten: 10 dB	ALISH AUTO 043696 PM Apr12, 2024 rg Type: Log-Pwr g)Hold:>100/100 truck pterform cct presenter Select Marker	■ Keynight Spectrum Analyser - Surgt SA. Keynight Spectrum Analyser - Surgt SA. Marken 3 23.604551162791 CHz PKO: Fast IFGalinLow IFGalinLow Atten: 10 dB	AUGH AUTO 0449999 PM Ar 12, 2024 Avg Type: Log-Pwr Avg[Hold>100100 cr: Distance Select Marker
Ref Offset 21 dB 10 dB/div Ref 20.00 dBm 100 100	Mkr3 7.231 4 GHz 3 -55.253 dBm	10 dB/div Ref 20.00 dBm	Mkr3 23,605 GHz 3 -49,991 dBm
0.00		0.00 -10.0 -20.0	CC 502 #2
	3 Fixed>		2 Fixed
300 Start 30 MHz #Res BW 100 kHz #VBW 300 kHz	Stop 10.000 GHz Sweep 953.1 ms (4000 pts)	70.0 Start 10.000 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 25.000 GHz Sweep 1.434 s (4000 pts)
MOR MOCE TRC SCLI X Y Function 2 N 1 f 1.635.6 GHz -65.899.6 Bm 2 N 1 f 5.137.2 GHz -65.891.6 Bm 3 N 1 f 7.231.4 GHz -55.253.6 Bm	Punction value Properties>	Iwr. Mode Tre: SCI. X Y P 1 N 1 f 14227 GHz -55 655 dBm 2 N 1 f 19812 GHz -55 655 dBm 3 N 1 f 23 605 GHz -49 991 dBm 4 - - - - - 6 - - - - -	INCTION FUNCTION WIDTH PUNCTION VALUE Properties
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10 dBldiv Ref 20.00 dBm -0.128 dBm 2.45200000 GHz 2.452000000 GHz 2.452000000 GHz 2.452000000 GHz 2.45200000000000000000000000000000000000	Ref Office 21 dB MKT 2 2.485 900 GHz 2 10 dB/div Ref 20.00 dBm -37.653 dBm Normal 100
330 100 <td>N 1 Y Plactow with the second sec</td>	N 1 Y Plactow with the second sec
Emission Level	Input/of Section Andport - Sect SA SENSE INT ALSON AUTO Def 91/24 FM Acr12, 204 Marker Marker 3 23,65834177104276 GHz. FRG Ind.cow SENSE INT ALSON AUTO Def 91/24 FM Acr12, 204 Marker Select Marker Avg Type: Log-Pwr Type True True Marker Select Marker Avg Type: Log-Pwr Type True Select Marker
Ref Offset 21 dB Mkr3 8.092 8 GHz 3 0 dBdlv -55.256 dBm -55.256 dBm 0 d0 -50.256 dBm -50.256 dBm	Ref Offset 21 dB Mkr3 23.668 GHz 3 10 dB/div Ref 20.00 dBm -50.592 dBm 0 10 dB/div Ref 20.00 dBm -50.592 dBm 0 10 dB/div Ref 20.00 dBm -50.592 dBm 0 10 dB/div -50.592 dBm 0 0 10 dB/div -50.592 dBm 0 0 0 10 dB/div -50.592 dBm 0 0 0 0 10 dB/div -50.592 dBm -50.592 dBm 0 0 0 0 0 0 0 0 0 0 0
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Res BW 100 kHz 1 Koj 1 Emission Level 1 Kojaki Spectrum Andyar-Surget SA 1	SINGE INT	Sweep 3.999 ms (4000 pts) [973/18] AJ9N A/TO [224694 PM Apr 07, 2021 Type: Log-Pwr Two: 22 a m	Marker	Koysight Spectrum Analyzer - Swep	* * * * * * * * * * * * * *	81ATUS 4.169 M/TO 1025521 PM Ava Type: Loo-Per Tracci	pr07,2024 Marker
Ref Offset 21 dB Bldly Ref 20.00 dBm	ast 🖵 Trig: Free Run Avg .ow Atten: 10 dB	Type: Log-Per loid > 100r100 Type: Mkr3 8.932 9 GHz -54.061 dBm	Select Marker 3 Normal	Ref Offset 21 d 10 dB/div Ref 20.00 dt	PNO: Fast Thig: Free Run IFGain:Low Atten: 10 dB	Avg Type: Log-Pwr Avg Hoid>100/100 Tree ort Mkr3 23.62 -49.072	7 GHz Select Market
	¢²	551-2022 den	Deita	-10.0 -20.0 -30.0 -40.0 -60.0			3
	#VBW 300 kHz	Stop 10.000 GHz Sweep 953.1 ms (4000 pts)	Fixed⊳ Off	500 500 500 Start 10.000 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 25.0 Sweep 1.434 s (40	00 pts) 0
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narker 5 0.5000 191547 09 GHZ	August Spectrum Analyzer - Swegt SA Strict SMI August August Spectrum Analyzer - Swegt SA Marker V VP 9.0 DC Strict SMI August Au
	ct Marker 3 Ref Offset 21 dB 10 dBldiv Ref 20.00 dBm Pho: Fast Trig: Free Run AvglHold>100/100 Tric With New York Pre- Next Pe Next Pe Next Pe Next Pe
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XRI MODE TRC SCL X Y Function Function width Function value 1 1 f 1.605.7 GHz -59.727 dBm - <t< td=""><td>INFINODE TRC: Scl. X Y FUNCTION FUNCTION WOTH F</td></t<>	INFINODE TRC: Scl. X Y FUNCTION FUNCTION WOTH F
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o status	INC. STATUS

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tart 30 MHz Stôp 10.000 GHz Res BW 100 kHz #VBW 300 kHz Sweep 953.1 ms (4000 pts) RR MODE TRC SCL X Y FUNCTION WOTH FUNCTION VALUE •	Start 10.000 GHz Stop 25.000 GHz #Kes BW 100 kHz #VBW 300 kHz Stop 25.000 GHz MMKmod End Study #VBW 300 kHz Stop 25.000 GHz MMKmod End Study #VBW 300 kHz Stop 25.000 GHz
No. I A5757 GHz -48857 dBm Function Func	1 N 1 f 14.411 GHz -55.328 dBm 2 N 1 f 14.411 GHz -55.938 dBm 3 N 1 f 23.623 GHz -56.950 dBm 3 N 1 f 23.623 GHz -50.502 dBm 5 6 6 6 6 6
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Keylight Spectrum Analyzer - Swegt SA. 4.69 AU(70) 62.4755 PM Ker/97, 2024 Frequency enter Freq 2.437000000 GHz PRO: Fest BrGainLow Trig: Free Run Atten: 10 dB Avg Type: Log-Pwr Avg/Hold>100100 102.4755 PM Ker/97, 2024 Frequency Ref Offset 21 dB C dB/div Ref Offset 21 dB S.876 dBm Mkr1 2.438 2/55 GHz S.876 dBm Auto Tune	
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Keyingkt Spectrum Analyzer - Swegt SA Rev State - Swegt SA Rev S	Konjight Spectrum Andyser - Swept SA SENSE_IVII Allon A//TO 00.553.30 PM Apr/07, 2024 Marker 3 23.529G532408102 GHz. IFGain-Gainer Trig: Free Run Atten: 10 dB Avg Type: Log-Per Avg/Hold>100/100 Trig: Free Run Atten: 10 dB Select Marker
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Stop 10.000 GHz Fixed Tart 30 MHz Stop 10.000 GHz Res BW 100 kHz \$WBW 300 kHz	Start 10.000 GHz Stop 25.000 GHz #Res BW 100 kHz #VBW 300 kHz
R MOE FIC: SCI X Y FUNCTION FUNCTION MOTH FUNCTION VALUE ★ N 1 f 1909 B GHz 5-58 377 dBm N 1 f 4.880 4 GHz 5-3.357 dBm N 1 f 8.491 7 GHz 5-4.524 dBm Properties ■	MMR MODE THC SQL X Y FUNCTION FUNCTION MDTH FUNCTION MDTH FUNCTION MQTH FUN
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30 310	Image: Constraint of the second sec
Emission Level Keynight Spectrum Andjorn - Sweet SA Keynight Spectrum Andjorn - Sweet SA Keynight Spectrum Andjorn	Keylight Spectrum Analyzer - Swept SA ALIGN AUTO 04-07-11 PM Agr 07, 2224 Pack Search 0 4 52 50 G 520 SE Pack Search Mark for 3, 232.6155002877.5994 GHz Avg Type: Log-Pwr TRUCE DEFENSION
PAO: Fast IFGaint.ow Trig: Free Run Atten: 10 dB Avg/Hold > 100/100 Trig Microsoft Select Marker 3 Ref Offset 21 dB 10 dB/div Ref 20:00 dBm -54.281 dBm 3	PAG: Fast Trig: Free Run IFGain.Low Avg Hold>100/100 Proc. Fast Avg/Hold>100/100 Proc. Fast Next Peal 0 dBidiv Ref Offset 21 dB Mkr3 23.616 GHz Next Peal Next Peal Next Peal
Cog Solution Control C	top
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Keysight Spectrum Analyzer - Swept SA L RF 50 g DC Center Freq 2.41200000	SENSE:INT	ALION AUTO 11:04:35 AM Apr 14, 2024 Avg Type: Log-Pwr TRACE 2 A Avg[Hold:>100/100 TYPE K	Frequency	Registive Spectrum Analyzer - Swept SA SERGEDNT AURA AUTO 13.5619 AM Apro Marker 2 2.39998499162491 GHz Trig: Free Run Avg Type: Log-Pwr Trig: Gree Run Marker 1 0.6 B IFGelicking Trig: Free Run Avg Type: Log-Pwr Trig: Trig: Free Run	4, 2024 A The Marker Select Marker
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10.0	meterologian frankriker her producedown	wheelulary	Center Freq 2.41200000 GHz Start Freq 2.39200000 GHz	100 000 100 200 400 400	Detta
2000 3000 4000 4000		Mindul Market Mining	Stop Freq 2.432000000 GHz CF Step 4.000000 MHz Auto Man	300 300 300 300 780 200 Center 2.40000 GHz Span 100.0 #Res BW 100 kHz #VBW 300 kHz Sweep 9.598 ms (4000)	0 pts) Of
00			Freq Offset 0 Hz Scale Type	MOR MODE TRC: X Y Function Function way 1 N 1 7 2.309 850 GHz -29 856 MBm -27.107 dBm 3 1 7 2.399 850 GHz -27.107 dBm - - 4 - - - - - - - 3 1 7 2.399 850 GHz -	Properties
enter 2.41200 GHz Res BW 100 kHz	#VBW 300 kHz	Span 40.00 MHz Sweep 3.999 ms (4000 pts) status	Log <u>Lin</u>	10	1 of
Emission Le	vel			Knright Spectrum Anshizer - Swegt SA	
Neyhigt pectum Anayter - Wegt SA k RF 50 g Dc Narker 3 8.49415353838	PNO: Fast Trig: Free Run IFGain:Low Atten: 10 dB	ALIGN AUTO 11:09:21 AM Agr 14, 2024 Avg Type: Log-Pwr Avg Hold:>100/100 MKr3 8.494 2 GHz	Marker Select Marker	Set Set 0 = 0 c SetSeEINT 4,004 M/D c 11:12:31 M Mort Marker 3 23,522130532633 GHz Trig: Free Run IFGalin.tow Trig: Free Run Atten: 10 dB Avg/Hoid:>10:0100 Trig: Comparison	4,2024 Marker Select Marker
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itart 30 MHz Res BW 100 kHz MR MODE TRC SCL		Stop 10.000 GHz Sweep 953.1 ms (4000 pts)	no	Start 10.000 GHz Stop 25.000 #Res BW 100 kHz #VBW 300 kHz Sweep 1.434 s (4000 MR MODE TRC SCL X Y Function width Function width	0 pts) O
2 N 1 f	1.717 8 GHz -54.110 dBm 4.824 3 GHz -54.189 dBm 8.494 2 GHz -56.939 dBm		Properties►	1 N 1 f 13.620 GHz -567.732 dBm 2 N 1 f 19.812 GHz -562.86 dBm N 1 f 23.522 GHz -560.030 dBm 6 6 6 6 6	Properties
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Start 30 MHz Stop 10.000 GHz Res BW 100 kHz #VBW 300 kHz Sweep 953.1 ms (4000 pts) Off	Start 10.000 GHz Stôp 25.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.434 s (4000 pts)
ARR MODE TRC SQL X Y FUNCTION FUNCTION FUNCTION WALK P 1 1 f 1.600 7.0Hz -56.252 dBm -55.207 dBm - - - Properties > Properties > -	MOR MODE TRC: X Y FUNCTION FUNC

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Reference Level	Higher Edge
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9 POWER SPECTRAL DENSITY MEASUREMENT

9.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	20 dB Attenuator	Mini-Circuits	BW-S20W2+	001	2023.09.21	1 Year

9.2 Block Diagram of Test Setup

The Same as section 5.2.

9.3 Specification Limits (§15.247(e))

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band. The same method of determining the conducted output power shall be used to determine the power spectral density.

9.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

9.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

Method AVGPSD-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.

a) Measure the duty cycle (D) of the transmitter output signal.

b) Set analyzer center frequency to DTS channel center frequency.

c) Set the span to at least 1.5 times the OBW.

d) Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.

e) Set the VBW \geq [3 × RBW].

f) Detector = power averaging (rms) or sample detector (when rms not available). g) Ensure that the number of measurement points in the sweep $\ge [2 \times \text{span} / \text{RBW}].$

h) Sweep time = auto couple.

i) Do not use sweep triggering; allow sweep to "free run."

j) Employ trace averaging (rms) mode over a minimum of 100 traces.

k) Use the peak marker function to determine the maximum amplitude level.

1) Add [10 log (1 / D)], where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.

m) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

The test procedure is defined in ANSI C63.10-2013 (11.10.5 Measurement Procedure "Method AVGPSD-2" was used).

For Emissions Testing of Transmitters with Multiple Outputs in the Same Band: Per KDB 662911 D01 Multiple Transmitter Output v02r01, section E).2), When performing measurements for compliance with PSD limits within the band of operation of a transmitter, any of the three techniques below may be used to combine the emission measurements from multiple outputs prior to comparing to the emission limit:

a) Measure and sum the spectra across the outputs.

b) Measure and sum spectral maxima across the outputs.

c) Measure and add $10 \log(N_{ANT}) dB$, where N_{ANT} is the number of outputs.

We selected the method b). *Measure and sum spectral maxima across the outputs*. for measure Power Spectral Density.

9.6 Test Results

PASSED.

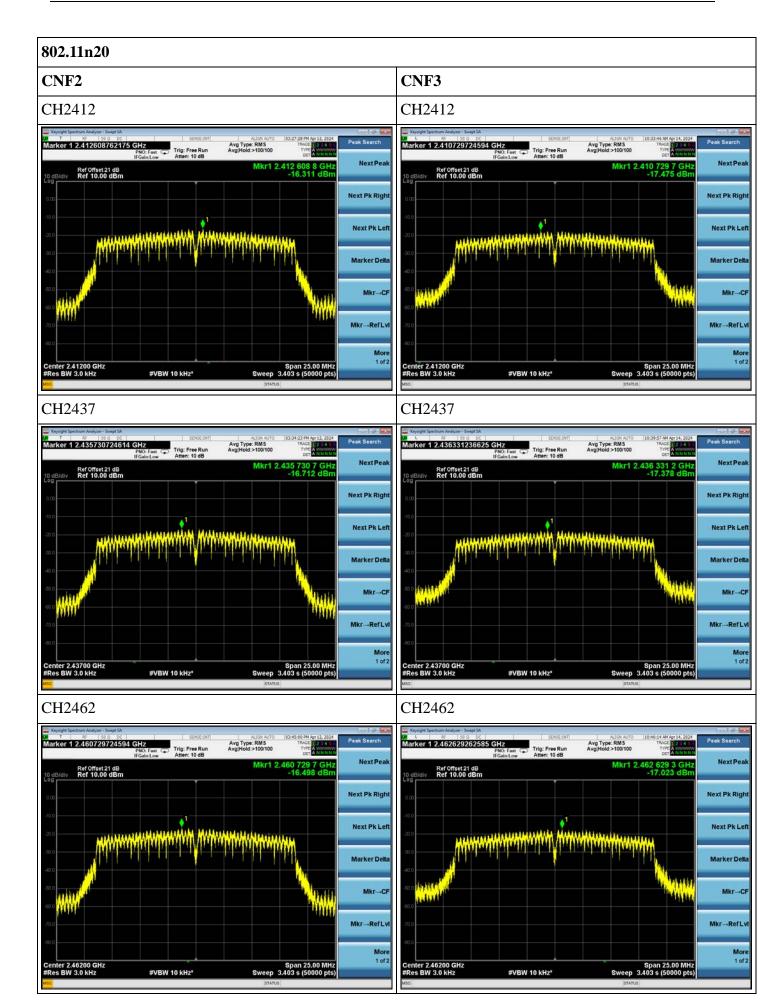
Note1: [Power Spectral Density] = Maximum of [Average Power Spectral Density] + [DCCF] Note2: The [DCCF(Duty Cycle Correct Factor)] shows on section 2.4.

All the test results are listed below.

Mode	Channel	Frequency (MHz)	Average Pov	ver Spectral D	Power	Limit	
			SISO CNF2	SISO CNF3	MIMO (CNF2 + CNF3)	Spectral Density (dBm)	(dBm)
	1	2412	-7.656	-7.441	-	-7.181	8
802.11b	6	2437	-7.639	-8.545	-	-7.379	8
	11	2462	-7.703	-7.761	-	-7.443	8
	1	2412	-15.42	-15.547	-	-15.230	8
802.11g	6	2437	-15.462	-16.129	-	-15.272	8
	11	2462	-15.252	-15.518	-	-15.062	8
	1	2412	-16.311	-17.475	-13.844	-10.944	8
802.11n20	6	2437	-16.712	-17.378	-14.022	-11.122	8
	11	2462	-16.498	-17.023	-13.742	-10.842	8
802.11n40	3	2422	-22.039	-22.141	-19.079	-15.069	8
	6	2437	-21.106	-22.075	-18.553	-14.543	8
	9	2452	-21.382	-22.226	-18.773	-14.763	8

802.11b	
CNF2	CNF3
CH2412	CH2412
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10 ANTENNA REQUIREMENT

10.1 Specification Limits (§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.

10.2 Result

According to KDB 353028 D1, the following describes the three ways that can be used to demonstrate compliance to Section 15.203:a) Antenna permanently attached.b) Unique (non-standard) antenna connector.c) Professional installation.

For this product, the antenna is:

□ Antenna permanently attached

☑ Unique (non-standard) antenna connector

□ Professional installation

 \Box not meet any of ways list above

that

☑ compliant

 \Box not compliant

with the requirement of Section 15.203.

11 DEVIATION TO TEST SPECIFICATIONS

None.

12 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2. The uncertainties value is not used in determining the PASS/FAIL results.

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Conducted Emission	9kHz~150kHz	±3.1 dB
No.1 Shielded Room	150kHz~30MHz	±2.6 dB
Conducted Emission	9kHz~150kHz	±3.1 dB
No.3 Shielded Room	150kHz~30MHz	±2.6 dB
	30MHz~200MHz, Horizontal	±3.8 dB
	30MHz~200MHz, Vertical	±4.1 dB
	200MHz~1000MHz, Horizontal	±3.6 dB
Radiated Emission	200MHz~1000MHz, Vertical	±5.1 dB
	1GHz~6GHz	±5.3 dB
	6GHz~18GHz	±5.3 dB
	18GHz~40GHz	±3.5 dB
Output Power Test	50MHz~18GHz	0.77 dB
Power Density Test	9kHz~6GHz	1.08 dB
RF Frequency Test	9kHz~40GHz	6*10-4
Bandwidth Test	9kHz~6GHz	$1.5*10^{-3}$
RF Radiated Power Test	30MHz~1000MHz	3.06 dB
Conducted Output Power Test	50MHz~18GHz	0.83 dB
AC Voltage(<10kHz) Test	120V~230V	0.04 %
DC Power Test	0V~30V	0.4 %
Temperature	-40°C~+100°C	0.52 °C
Humidity	30%~95%	2.6 %