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TEST REPORT

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FCC ID: 2AIZN-X6857 Product: Mobile Phone W5CT Model No.: X6857 Trade Mark: Infinix Report No.: WSCT-ANAB-R&E250100002A-LE Issued Date: 14 February 2025

INFINIX MOBILITY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

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Issued for: 5 CT

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: +86-755-26996192

Issued By:5 CT

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 only, and shall be noted in the revision section of the document. The test results in the report only

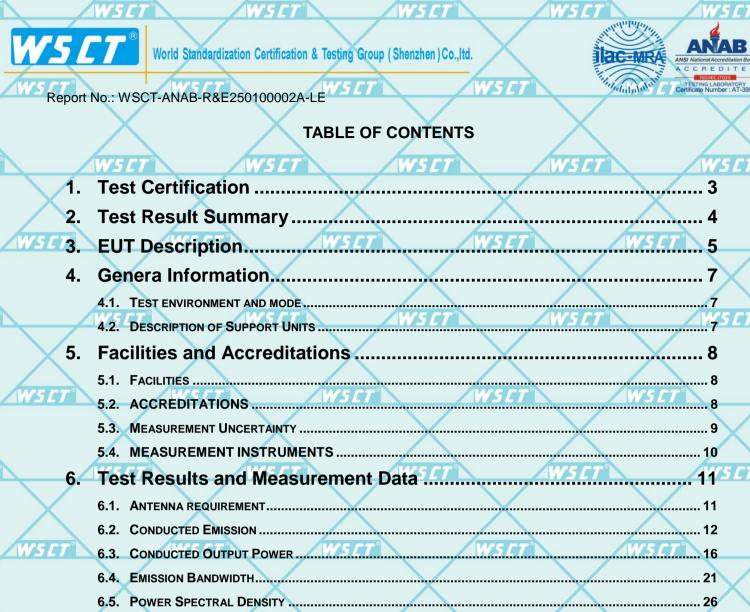
 apply to the tested sample.

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 6.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT
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 6.7. RADIATED SPURIOUS EMISSION MEASUREMENT
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 7. Test Setup Photographs
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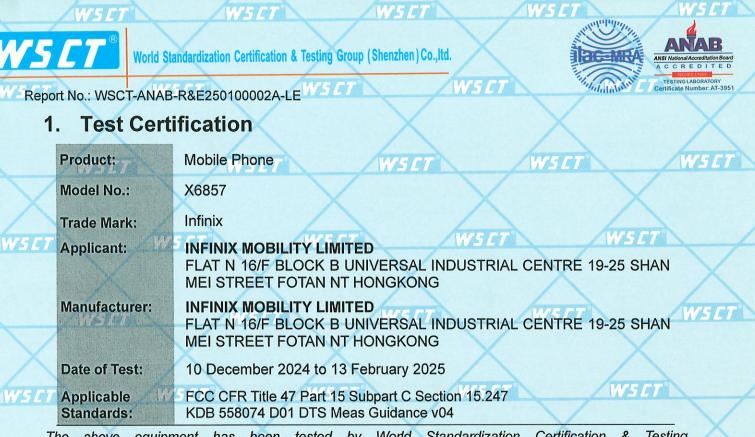
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The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Tested By:	Wart Kiart	Checked By:	lanst Stan 9m water & Testing ST
X	(Wang Xiang)	\mathbf{X}	(Qin Shuiquan)
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Approved By:	Li Hnaib;	Date: <u>//</u>	February 2025
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	o.58 and 60, Tanglou Avenue, Shiyan Street, Bao'a	n District, Shenzhen City, Guangdong Province, Ch ngbing.wang@wscl-cert.com Http: www.wscl-cert.c	
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2. Test Result Summary

	hundred hundred			WSCT				
	Requirement	CFR 47 Section	Result					
	Antenna requirement	§15.203/§15.247 (c)	PASS					
WS CT	AC Power Line Conducted Emission	WSET §15.207	PASS	\checkmark				
	Maximum conducted output		WSCPASS	WSET				
WSET	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS					
/ 11/2/6/	Power Spectral Density	§15.247 (e)	PASS	\checkmark				
	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS	WSET				
\mathbf{X}	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS					
 PASS: Test item meets the requirement. Fail: Test item does not meet the requirement. N/A: Test case does not apply to the test object. WSCT WSCT WSCT WSCT WSCT WSCT WSCT WSCT 								
<u>wscr</u>	WSET WSE		WSET	WSET				
WSET	WSET	WSET WSET	WSET					
	WSET WSE		\mathbf{X}					
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Antenna Gain: -0.92dBi Adapter: U450XSB Input: 100-240V~50/60Hz 1.8A Output: 5.0V-3.0A 15W or 5.0-10.0V-4.5A or 11.0V...4.1A 45.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-54BX **Operating Voltage:** Rated Voltage: 3.91V Rated Capacity: 5100mAh Nominal Energy: 19.95Wh Typical Capacity: 5200mAh Limited Charge Voltage: 4.50V Remark: N/A.

Integral Antenna

Note: 1. N/A stands for no applicable.

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2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification&Testing Group (Shenzhen) Co., Ltd assumes no responsibility.

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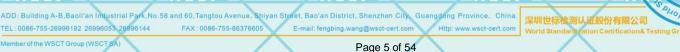
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Antenna Type:





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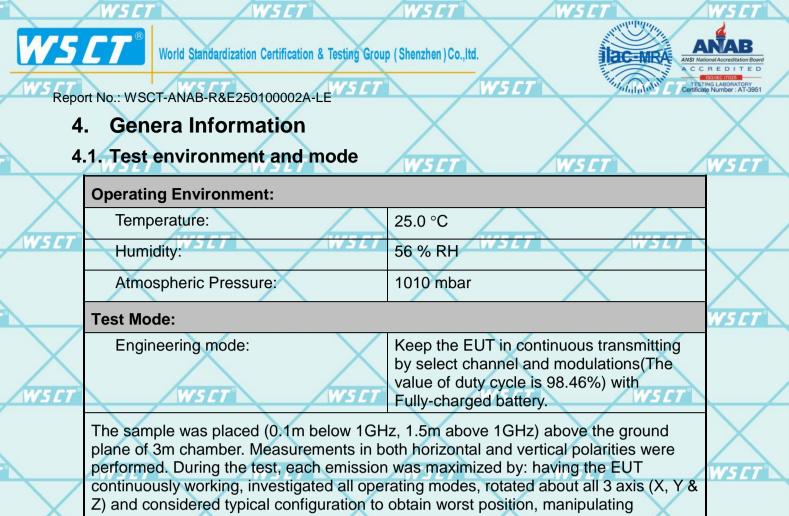
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					R		Alter and a second seco		-
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	W5 [] T
	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
1	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz	
7		WSCT [®]		WSET		WS CT		WSCT	
	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz	
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz	X
	Remark: Channel 0,1, 19,38,& 39 have been tested.								

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interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

SET	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	\times	\times	\times	1	/

Note:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
 Grounding was established in accordance with the manufacturer's requirements and conditions for the intended

use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1.Facilities

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All measurement facilities used to collect the measurement data are located at Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS ANAB - Certificate Number: AT-3951

MS The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951





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5.3.Measurement Uncertainty

-				
	No.	Item	MU	WSET
\checkmark	1	Power Spectral Density	±3.2dB	
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	
5 <i>CT</i> °	3	Medium Utilisation Factor	±1.3%	\leftarrow
	4	Occupied Channel Bandwidth	±2.4%	\mathbf{X}
	5 <u>ws</u> [Transmitter Unwanted Emission in the out-of Band	±1.3%	WSET
\checkmark	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
SET [®]	7	Receiver Spurious Emissions	±2.5%	
3 L 1	8	Conducted Emission Test	±3.2dB	\checkmark
	9	RF power, conducted	±0.16dB	\mathbf{X}
	10/5 <u>C</u>	Spurious emissions, conducted WSCT WS	±0.21dB	WSLT
\times	11	All emissions, radiated(<1GHz)	±4.7dB	
5 <i>CT</i> °	12	All emissions, radiated(>1GHz)	±4.7dB	
	13	Temperature	±0.5°C	\checkmark
	14	Humidity	±2.0%	$\boldsymbol{\wedge}$

NOTE:1.The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is *ws c* based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

2. The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an

adjustment is made follows : any additionan uncertaimty in the test system over and

above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

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5.4.MEASUREMENT INSTRUMENTS

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NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	SET
Test software	×	EZ-EMC	CON-03A	-	Χ-	
Test software		MTS8310	WSET	- /	1517	
EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	$\overline{}$
LISN	AFJ	LS16	16010222119	11/05/2024	11/04/2025	\mathbf{X}
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	TS ET
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
Coaxial cable	Megalon	LMR400	N/A CT	11/05/2024	11/04/2025	
GPIB cable	Megalon	GPIB	N/A	11/05/2024	11/04/2025	\checkmark
Spectrum Analyzer	R&S	FSU	100114	11/05/2024	11/04/2025	\wedge
Pre Amplifier	H.P.CT	HP8447E 5 (2945A02715	11/05/2024	11/04/2025	15 CT
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2024	11/04/2025	
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
9*6*6 Anechoic	CT° V	VS CT°	WSCT°	11/05/2024	11/04/2025	
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	-	11/05/2024	11/04/2025	\times
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025	rs rT
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2024	11/04/2025	
System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
Turn Table	ccs	75 C1 N/A	N/A	N.C.R	N.C.R	
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	
RF cable	Murata	MXHQ87WA300 0	-	11/05/2024	11/04/2025	\wedge
Loop Antenna	EMCOT	6502W5L	00042960	11/05/2024	11/04/2025	'5 CT°
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025	
Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025	
Power sensor	Anritsu	MX248XD	WSLT	11/05/2024	11/04/2025	
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025	\times

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Test Results and Measurement Data 6.

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6.1. Antenna requirement

$\langle \rangle$	Standard requirement:	FCC Part15 C Section 15.203 /247(c)	
[7°	15.203 requirement: An intentional radiator shall b	e designed to ensure that no antenna other than that	
	furnished by the responsible permanently attached antenn intentional radiator, the manu	party shall be used with the device. The use of a a or of an antenna that uses a unique coupling to the facturer may design the unit so that a broken antenna but the use of a standard antenna jack or electrical	WSET
\langle	connector is prohibited. 15.247(c) (1)(i) requirement:	2400-2483.5 MHz band that is used exclusively for fixed.	
[7]		employ transmitting antennas with directional gain CT	
		e maximum conducted output power of the intentional or every 3 dB that the directional gain of the antenna	Х
_	E.U.T Antenna:	T W5CT W5CT	WSCT [®]
	gain of the antenna is -0.92dl	tegral Antenna. it meets the standards, and the best case 3i. X6857 Internal Photo" for the antenna location	

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	WSET	WSET	WSET	WSET	WSET
WIST	$\langle \rangle$	$\langle \rangle$	\times	\times	VSCT
	WSET	WSET	WSET		
WIST		$\langle \rangle$	$\langle \rangle$	V5CT	And
/					35 g

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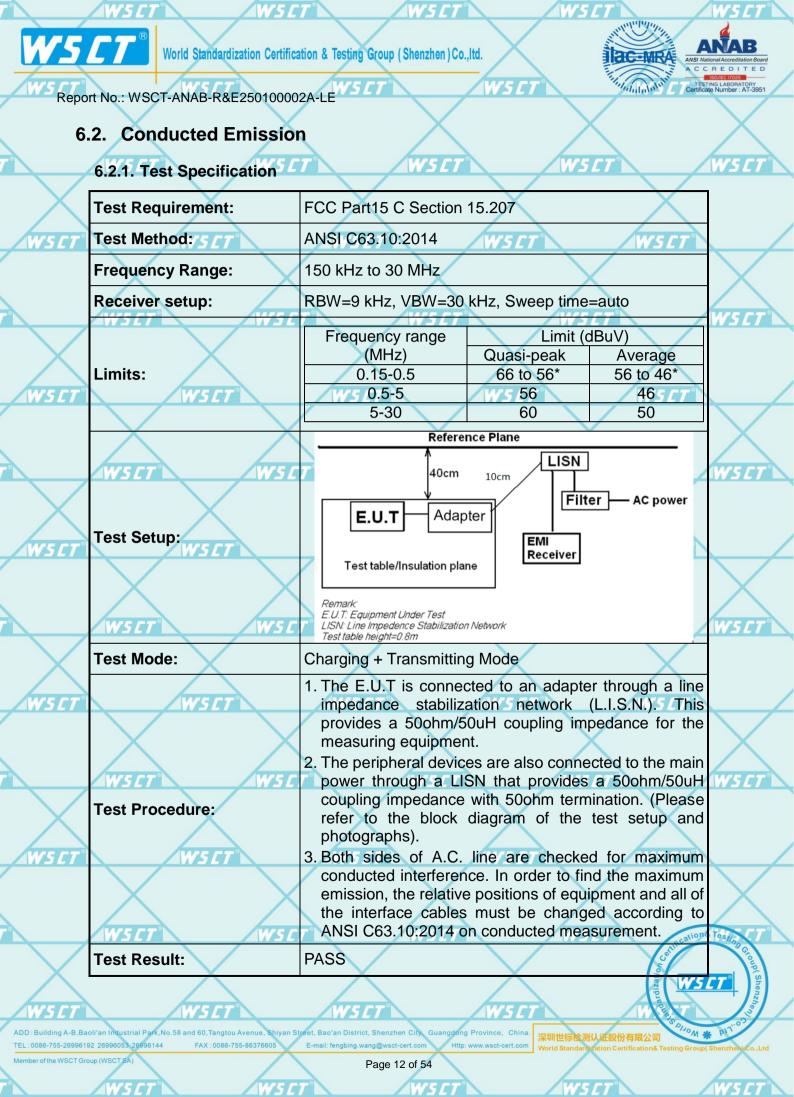
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6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is WS C7 worst.

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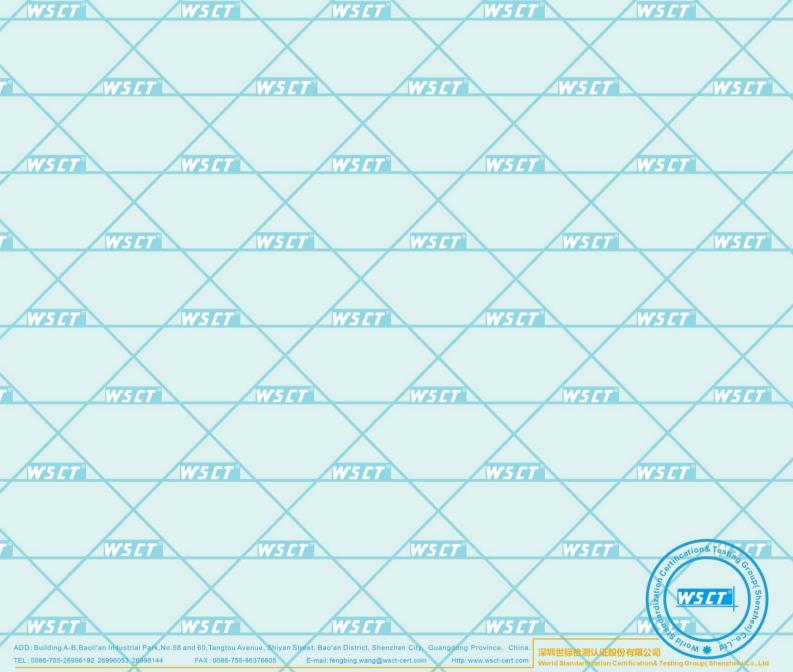
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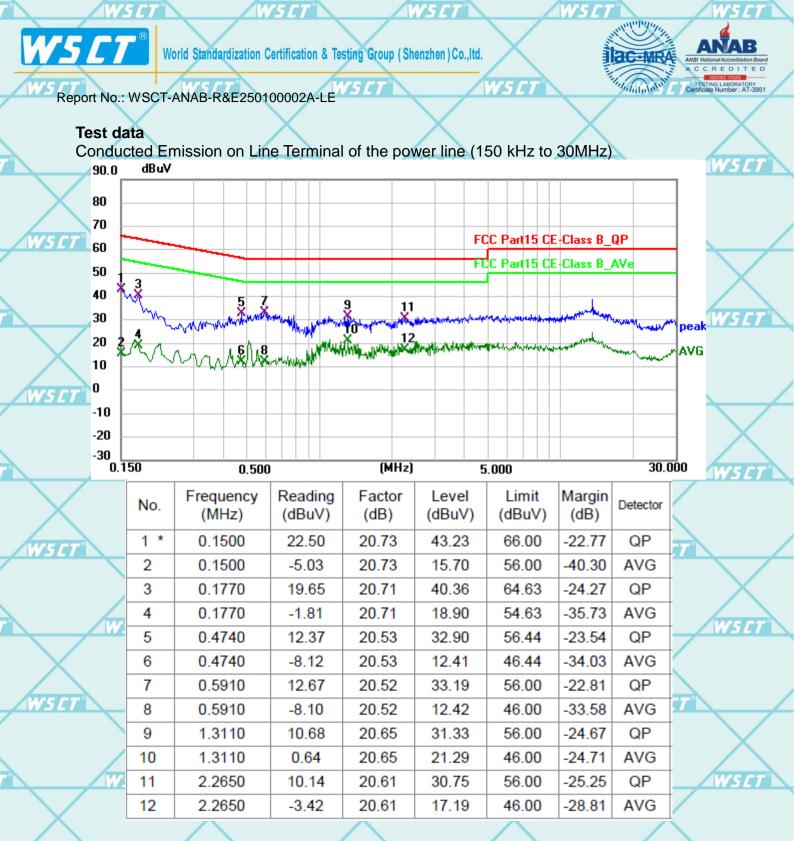
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Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.



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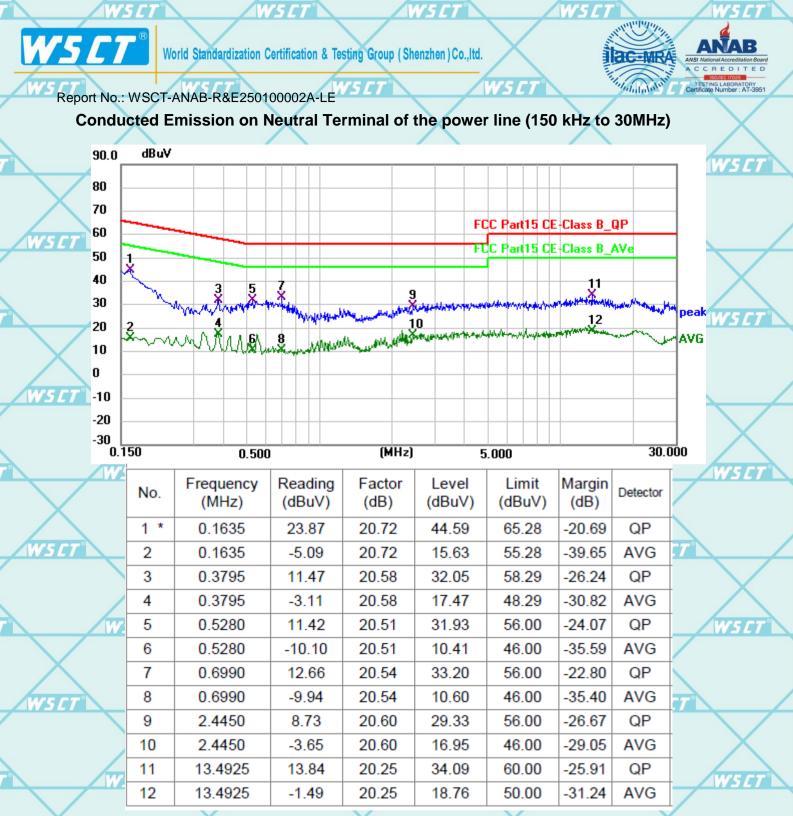
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Note1:

Freq. = Emission frequency in MHz

Reading level ($dB\mu V$) = Receiver reading $\int D$

Corr. Factor (dB) = LISN Factor + Cable loss

- Measurement $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$
- Limit $(dB\mu V) = Limit$ stated in standard
- Margin (dB) = Measurement (dB μ V) Limits (dB μ V)
- Q.P. =Quasi-Peak AVG =average
- * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

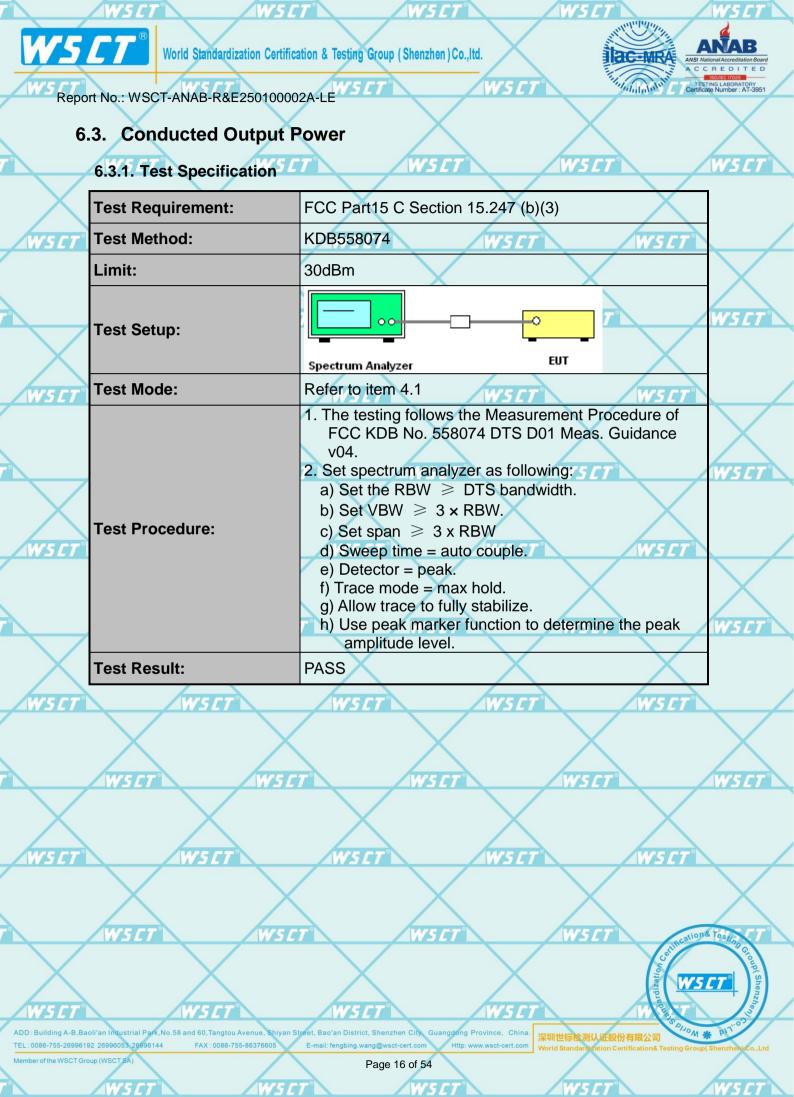
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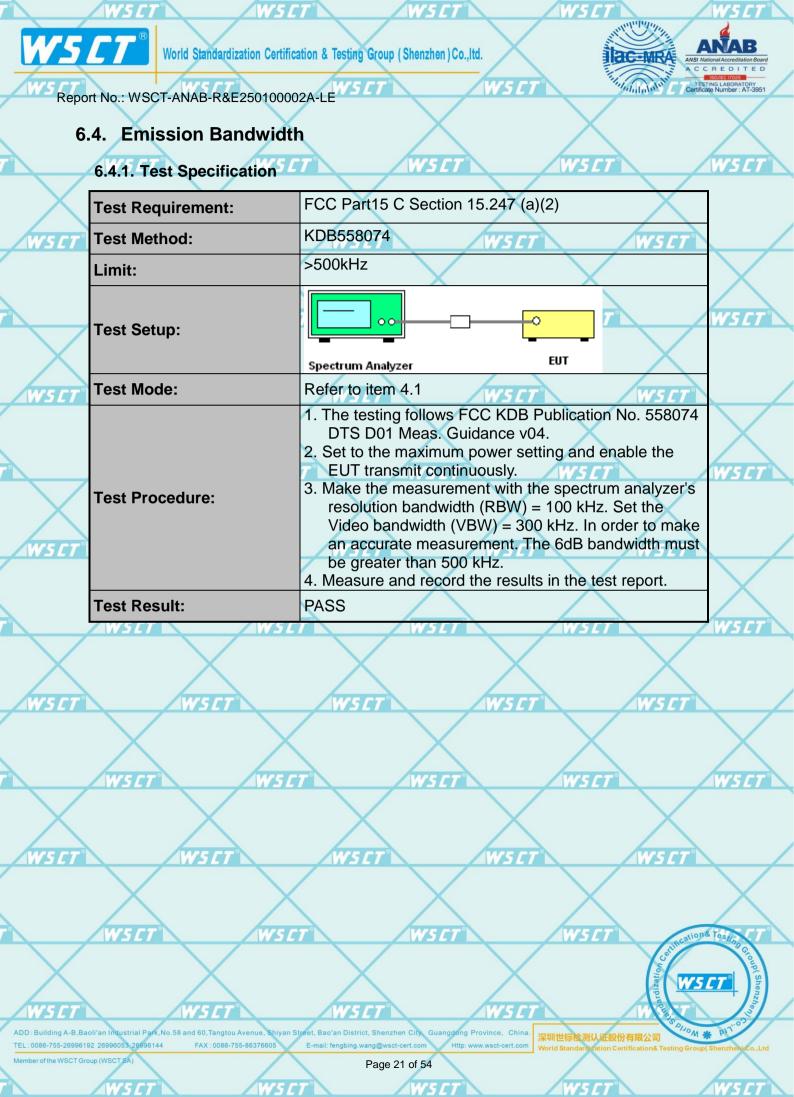


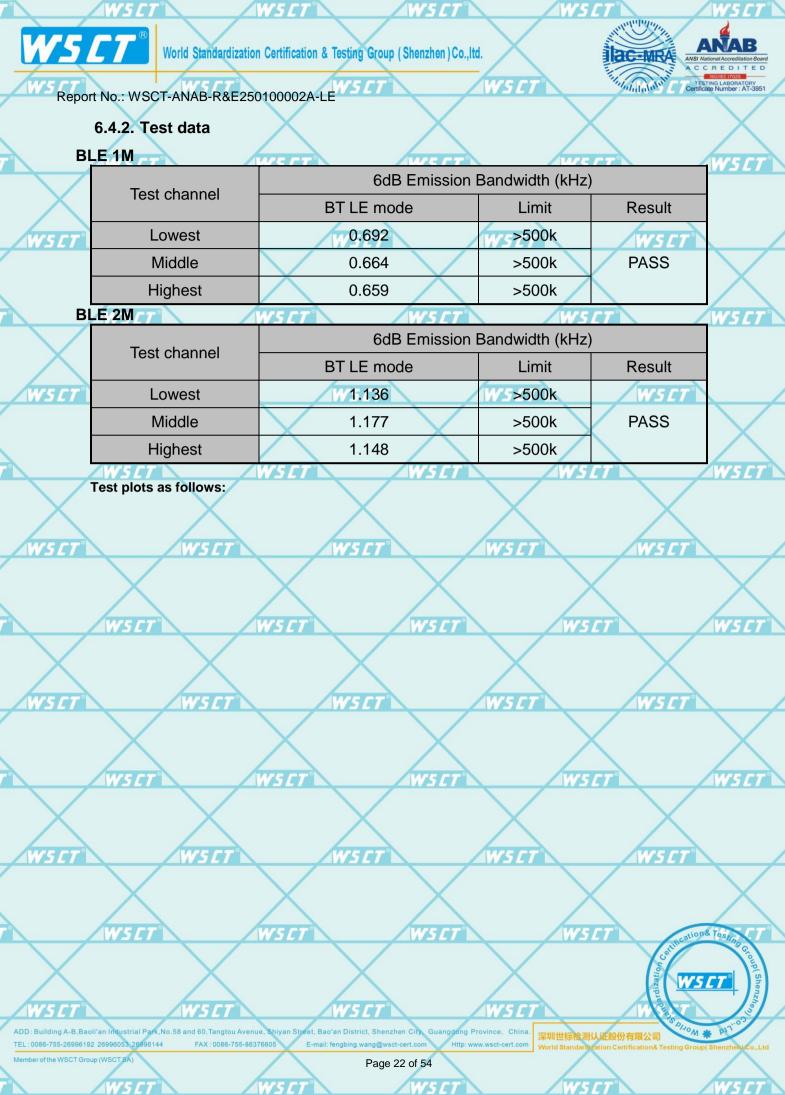




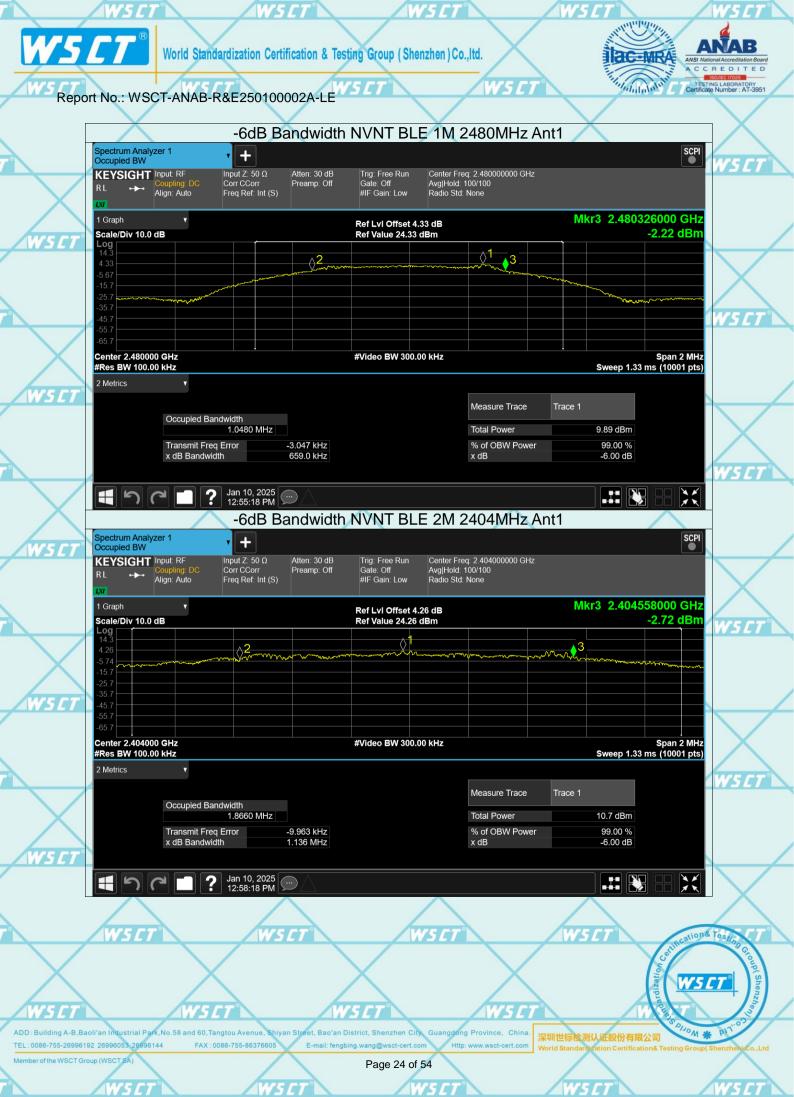


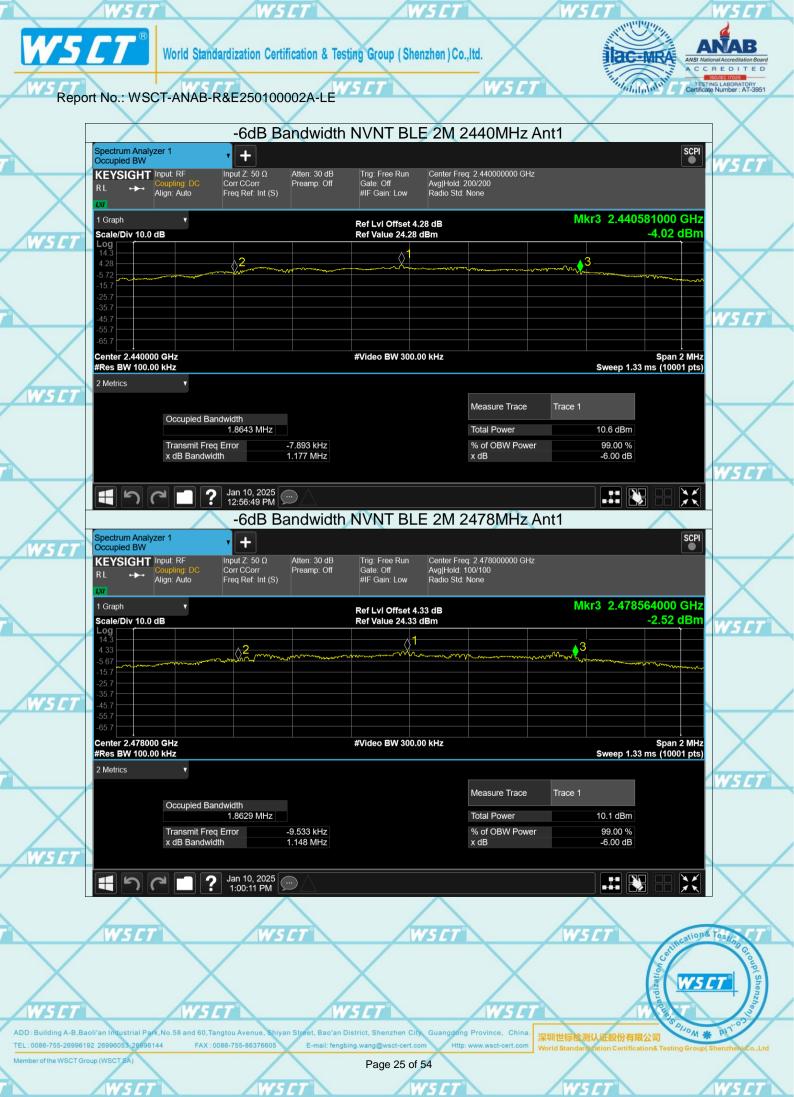


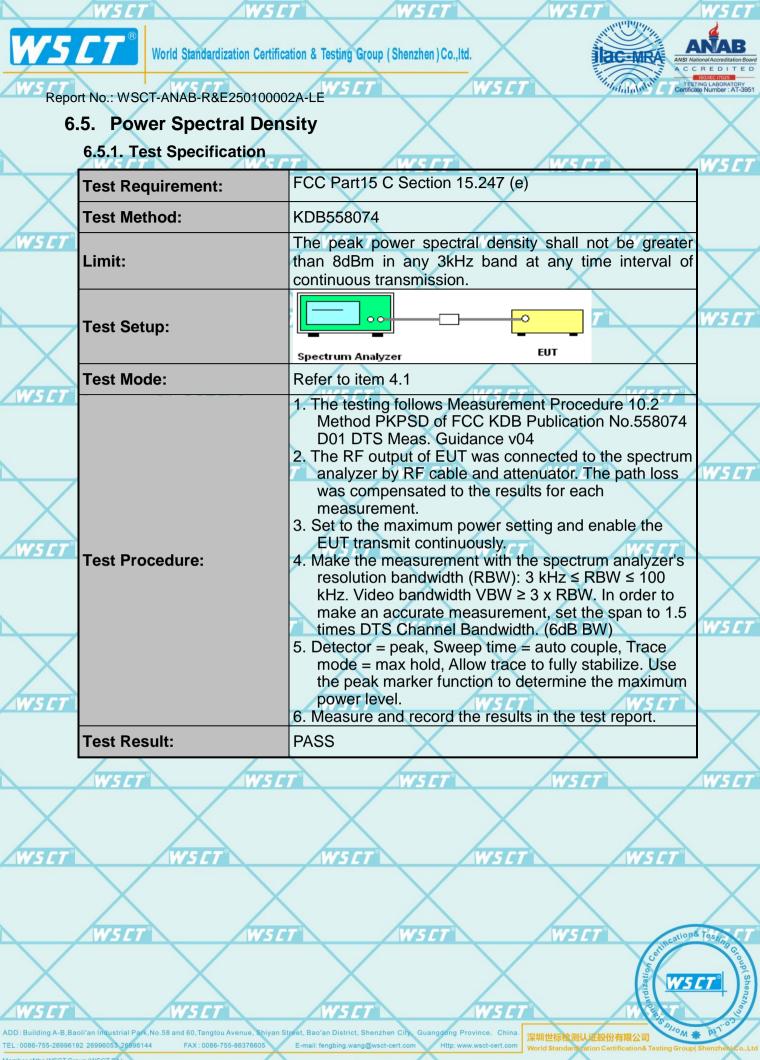






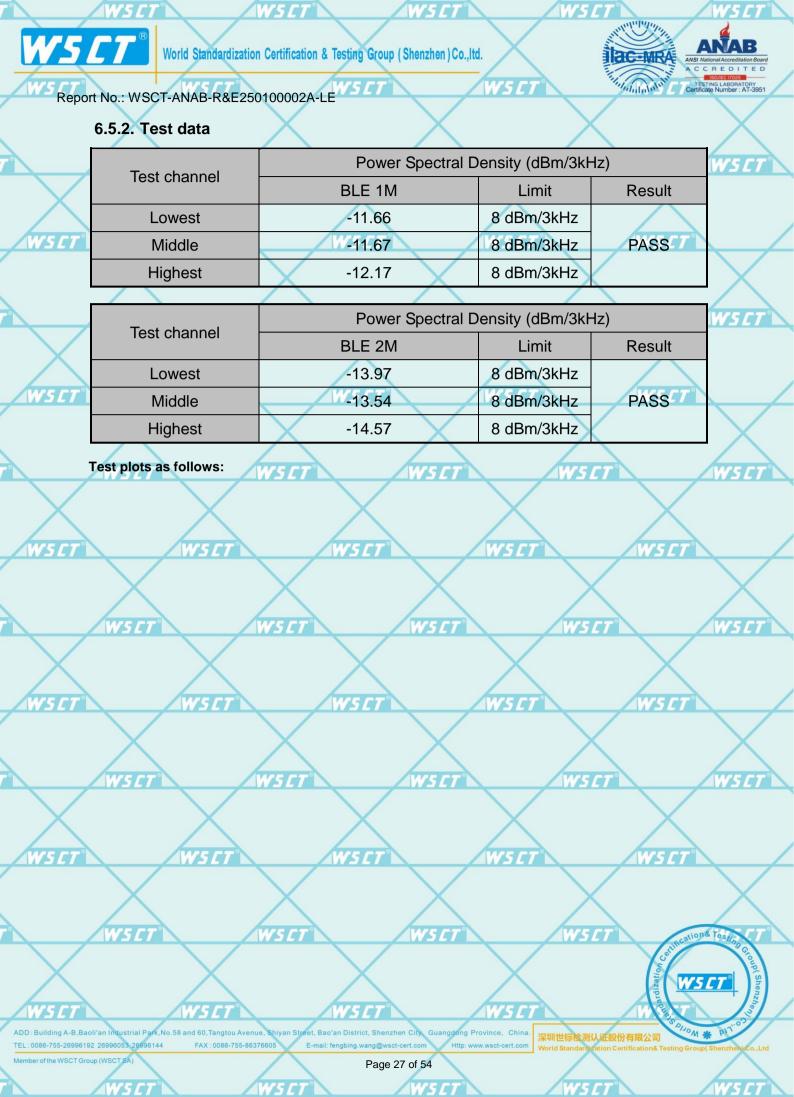


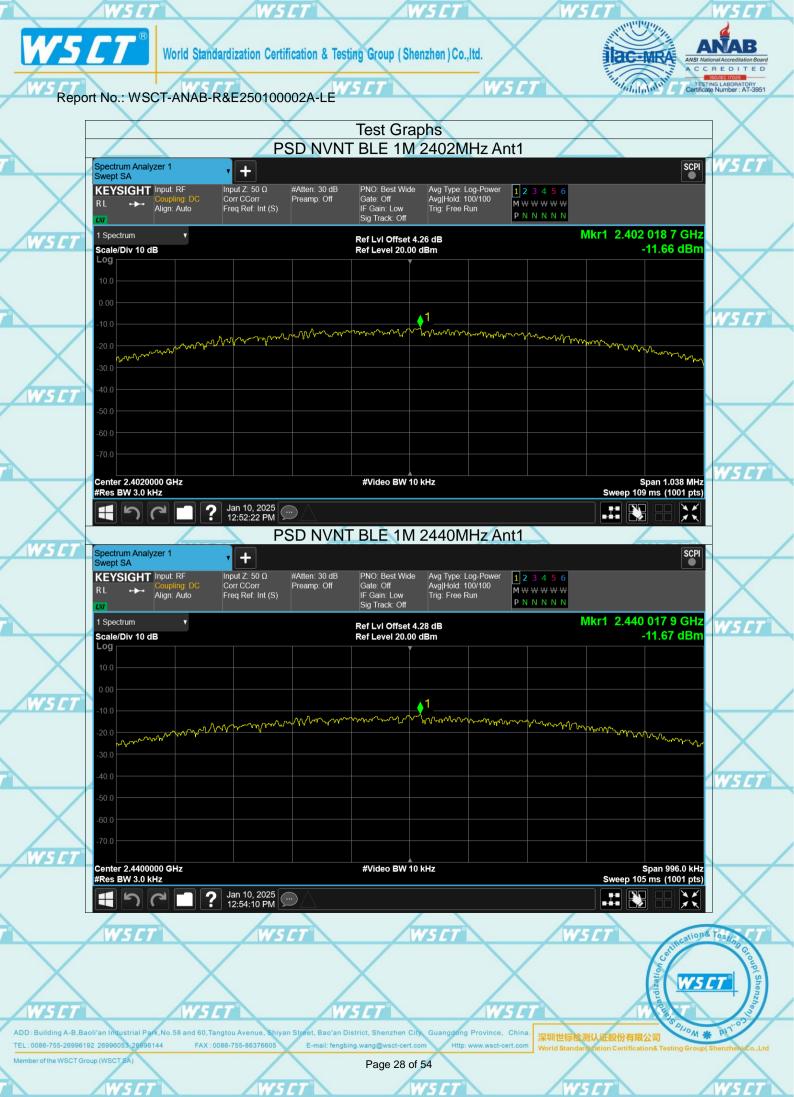




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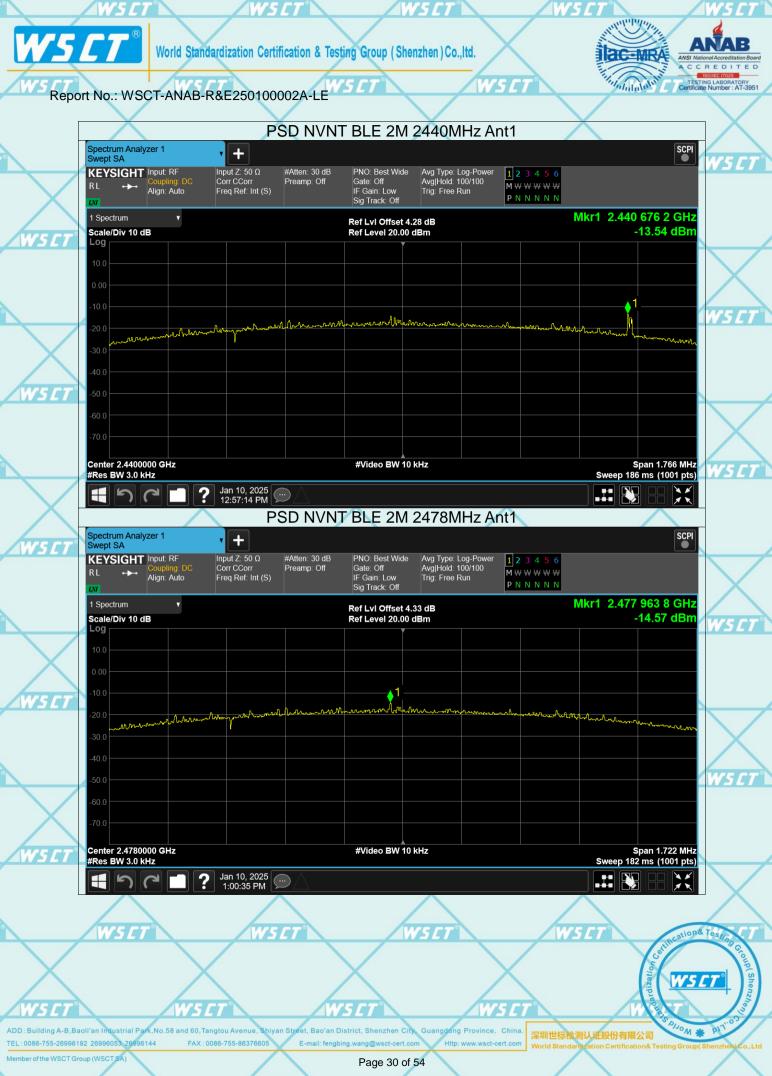
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6.6. Conducted Band Edge and Spurious Emission Measurement

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	6.6.1. Test Specification	T WSET	WSET	ws
$\mathbf{\mathbf{\nabla}}$	Test Requirement:	FCC Part15 C Section 15.2	47 (d)	7
WSET	Test Method:	KDB558074		
WSET	Limit:	frequency band, the em non-restricted bands shall b 30dB relative to the maxim RF conducted measurement which fall in the restricted b	h outside of the authorized hissions which fall in the be attenuated at least 20 dB hum PSD level in 100 kHz by ent and radiated emissions bands, as defined in Section ly with the radiated emission 5.209(a).	e / y s n
	Test Setup:	Spectrum Analyzer	EUT	WS
\bigvee	Test Mode:	Refer to item 4.1	\checkmark	
WSET WSET	Test Procedure:	 analyzer by RF cable an was compensated to the measurement. 2. Set to the maximum pow EUT transmit continuous 3. Set RBW = 100 kHz, VBV Unwanted Emissions me bandwidth outside of the shall be attenuated by a maximum in-band peak maximum peak conduct used. If the transmitter of power limits based on the a time interval, the atten paragraph shall be 30 dl 15.247(d). 4. Measure and record the formation of the shall be attenuated by a maximum and the shall be attenuated by a maximum peak conducted used. If the transmitter of power limits based on the attenuated by a time interval, the attenuated by a maximum peak conducted used. If the transmitter of power limits based on the attenuated by a time interval. The attenuated by a maximum peak conducted used. If the transmitter of power limits based on the attenuated by a time interval. The attenuated by a maximum peak conducted used. If the transmitter of power limits based on the attenuated by a time interval. The attenuated by a time interval. The attenuated by a time interval. 	er setting and enable the sly. W=300 kHz, Peak Detector, easured in any 100 kHz e authorized frequency band t least 20 dB relative to the PSD level in 100 kHz when ed output power procedure is complies with the conducted be use of RMS averaging ove puation required under this B instead of 20 dB per results in the test report.	W5 s
	Test Result:	PASS	X	
	WSCT WSC	T WSET	WSET Incalio	on& Testino
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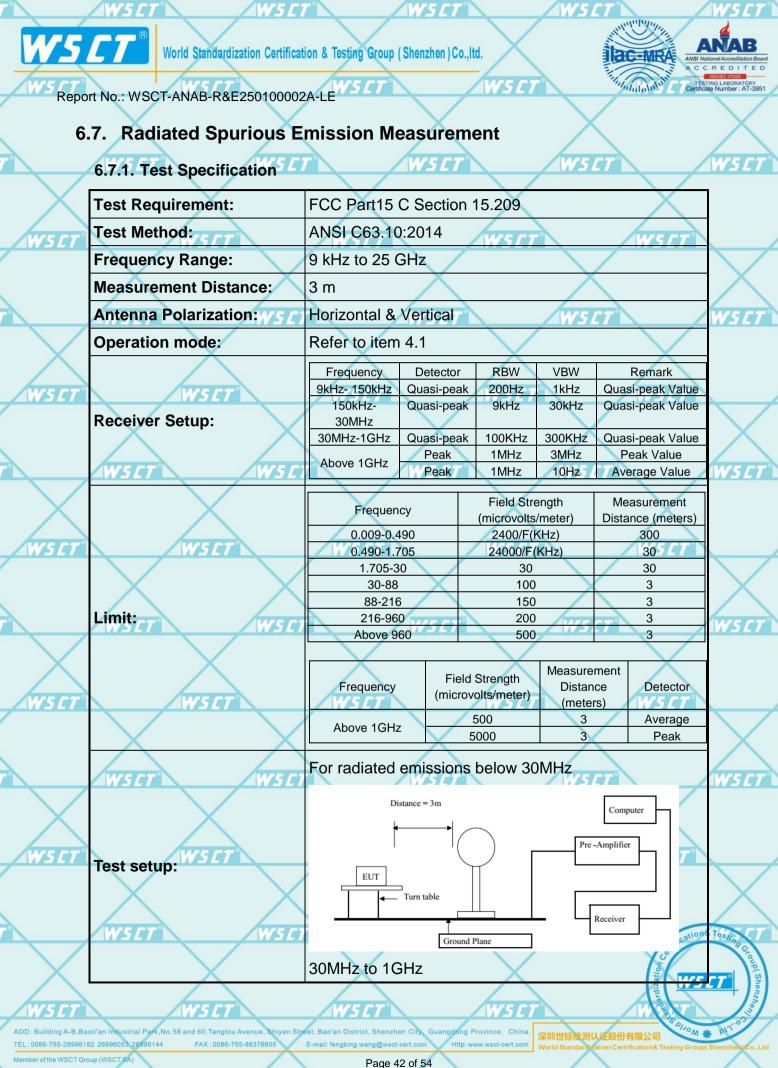


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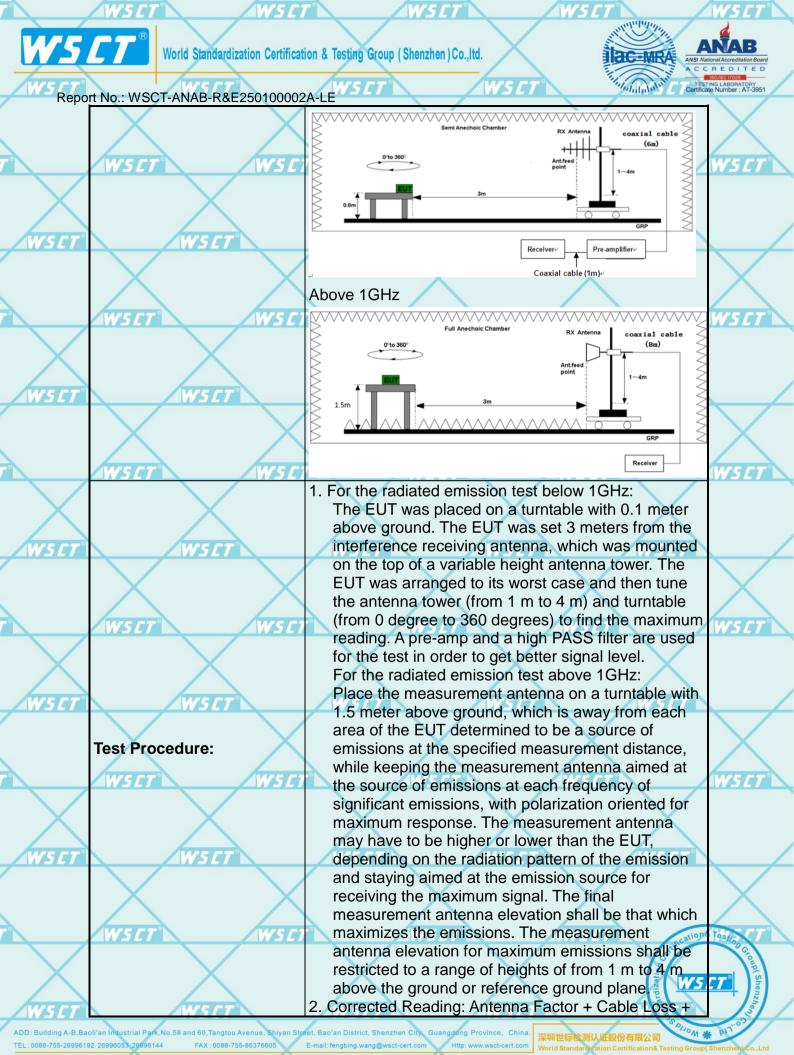
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W 5	C7 [®] World Standardization Certif	ication & Testing Group (Shenzhen)Co.,ltd.	Iac-MBA	
Repo	rt No.: WSCT-ANAB-R&E2501000	WSCT WS	ET The Add CT	TESTING LABORATORY Certificate Number : AT-3951
WSET	WSCT WS WSCT	 Read Level - Preamp Fac 3. For measurement below 1 of the EUT measured by lower than the applicable level will be reported. Oth measurement will be reperdetector and reported. 4. Use the following spectrum (1) Span shall wide enough 	GHz, If the emission leve the peak detector is 3 dE limit, the peak emission nerwise, the emission eated using the quasi-pean of analyzer settings: 5 C of to fully capture the	³ WSET
WSET	WSET WS WSET	emission being measu (2) Set RBW=100 kHz for Sweep = auto; Detecto max hold; (3) Set RBW = 1 MHz, VE for peak measuremen For average measuremen	f < 1 GHz; VBW ≥RBW or function = peak; Trace 3W= 3MHz for f 1 GHz t.	
	WSET WS	duty cycle is no less than when duty cycle is less th	98 percent. VBW $\geq 1/T$ nan 98 percent where T is n duration over which the ansmitting at its maximur	s e m
$ \land $	Test mode:	Refer to section 4.1 for detai		
WSET	Test results: / 5.C7	PASS577 WS	IET WSEI	

Note 1: The symbol of "--" in the table which means not application.

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Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

In the low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode

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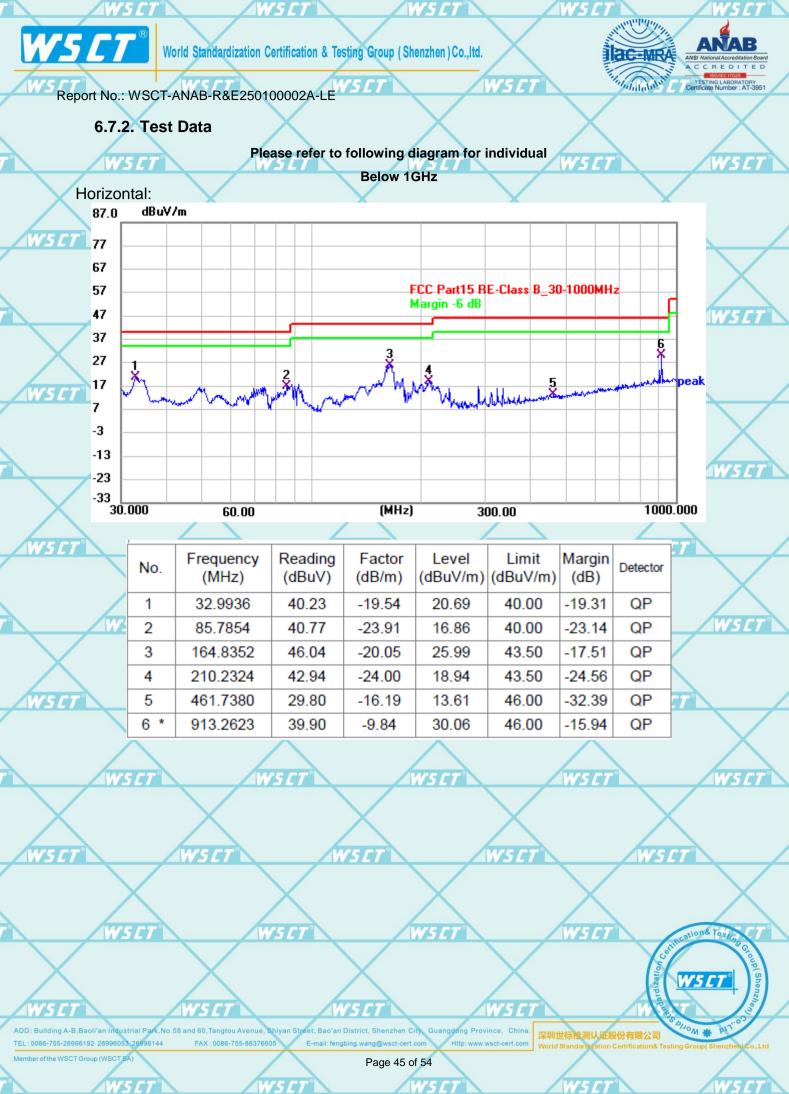
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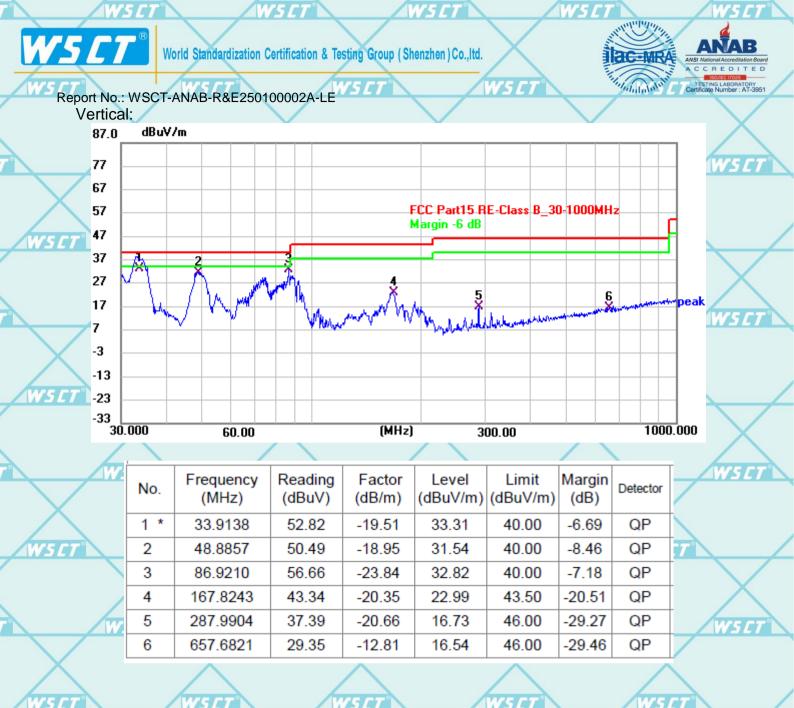
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15 C'i



Note1:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

VSCI

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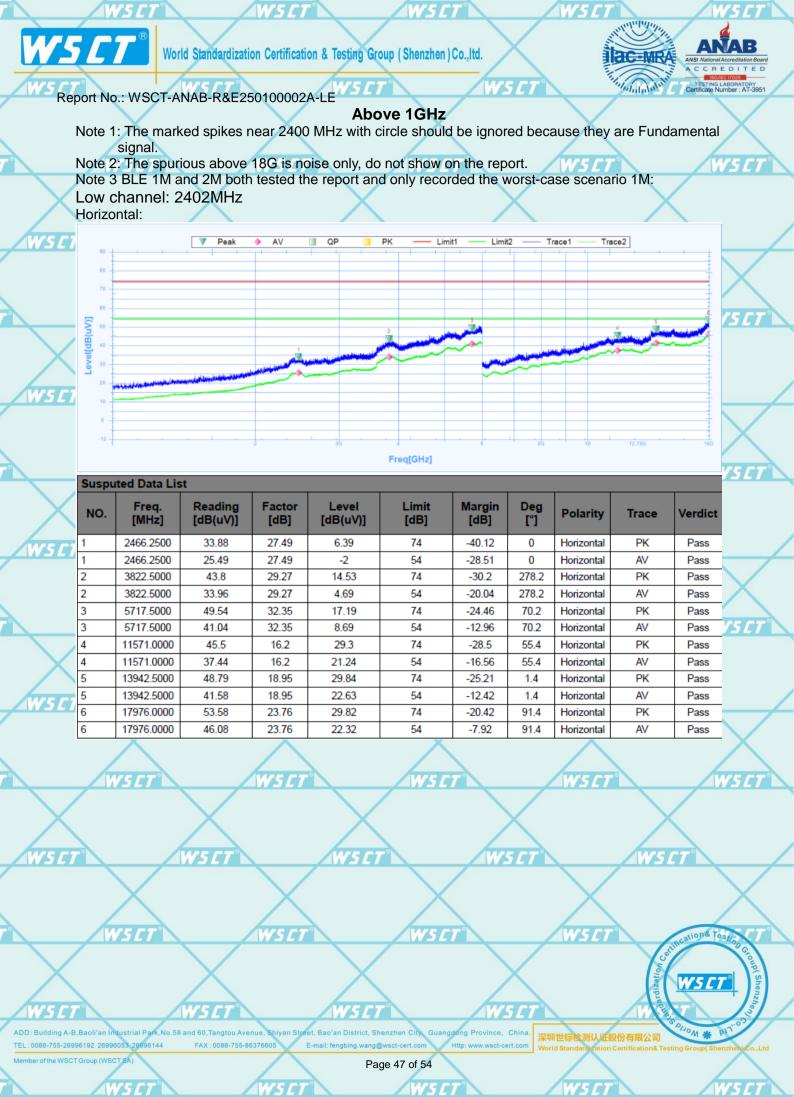
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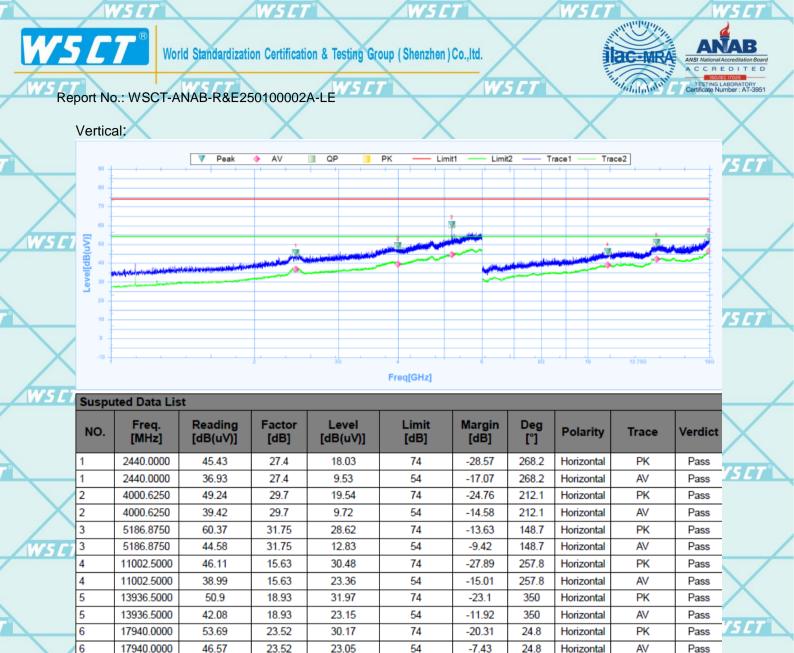
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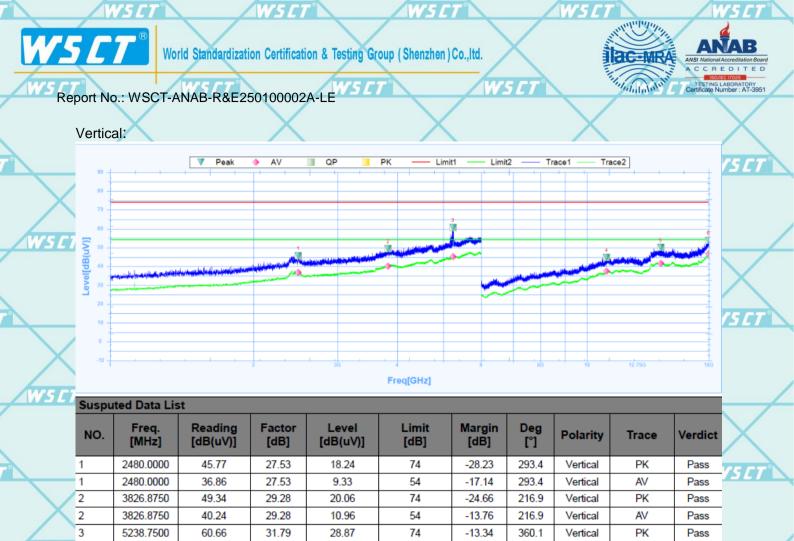


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15 C 1

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45.26

44.76

37.42

50.03

41.6

53.75

46.74

31.79

15.57

15.57

18.84

18.84

23.75

23.75

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13.47

29.19

21.85

31.19

22.76

30

22.99

7.5

25

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74

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74

54

74

54

-8.74

-29.24

-16.58

-23.97

-12.4

-20.25

-7.26

360.1

1.1

1.1

0.7

0.7

0.5

0.5

Vertical

Vertical

Vertical

Vertical

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15 C

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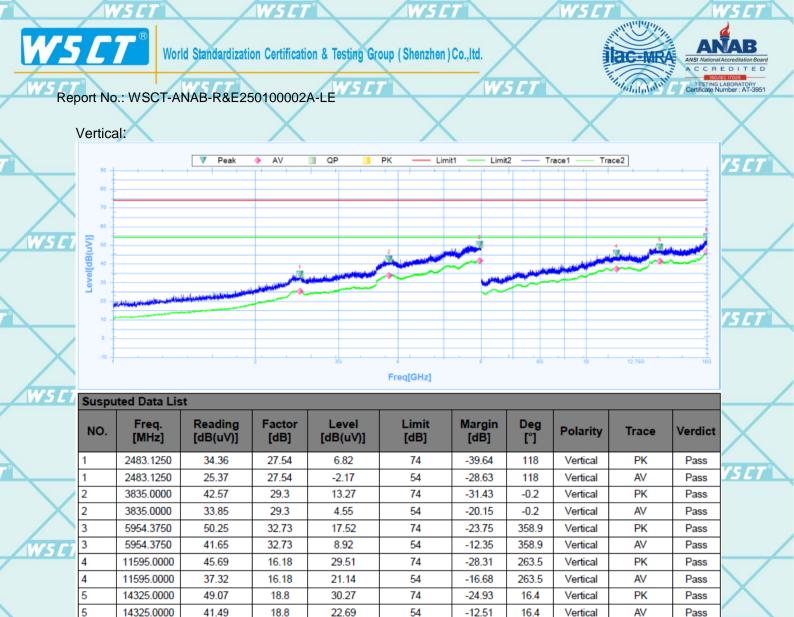
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Note:

6

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17989.5000

17989.5000

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.

30.39

22.75

2. Emission Level= Reading Level + Probe Factor +Cable Loss.

23.86

23.86

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54.25

46.61

3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74

54

-19.75

-7.39

152.3

152.3

75

75 F

Vertical

Vertical

15 E

15 E

PK

AV

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V5

4. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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W5CT°



Report No.: WSCT-ANAB-R&E250100002A-LE

6.7.3. Restricted Bands Requirements									
Test result for GFSK Mode (the worst					WSC1		W5	C7°	WSET
$\overline{}$	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
W5 [1		WSLT		Low Cha	nnel	/WSL		_ W 5	[7]
	2387	61.45	-8.76	52.69	74	21.31	н	PK	
	2387	55.03	-8.76	46.27	54	7.73	H	AV	
	2387	59.24	-8.73	50.51	745 []	23.49	VALS	PK	WSET
	2387	56.90	-8.73	48.17	54	5.83	V	AV	/
	2390	61.06	-8.76	52.30	74	21.70	Н	PK	$\langle \rangle$
	2390	56.26	-8.76	47.50	54	6.50	Н	AV	
<u> W5C1</u>	2390	61.62	-8.73	52.89	74	21.11	V	PK 5	[7]
	2390	54.11	-8.73	45.38	54	8.62	V	AV	
	\wedge		\land	High Cha	nnel				\sim
	2483.5	64.74	-8.76	56.57	745 - 1	17.43	Hvs	PK	WSET
	2483.5	53.98	-8.76	45.81	54	8.19	Н	AV	/
- X	2483.5	64,75	-8.73	56.58	74	17.42	V	PK 🔵	$\langle \rangle$
	2483.5	53.23	-8.73	45.06	54	8.94	V	AV	
ZW5 C1		mission frequen dBµV) = Receiv		ZWSLT		WSL		WS	
	Corr. Factor (dl	B) = Attenuation	factor + Cab						
		Reading level (Limit stated in st		. Factor (dB)					
		evel (dBµV) – L			WSET		WS	67°	WSCT
	/						/		/
									< _
					2		\geq		
<u>/wsci</u>		WSCT		WSET		W5 [W5	
	WSET		WSET		WSCT		WS	57 °	WSET
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hurse		WSET		Autor		WEE	\rightarrow	hurs	
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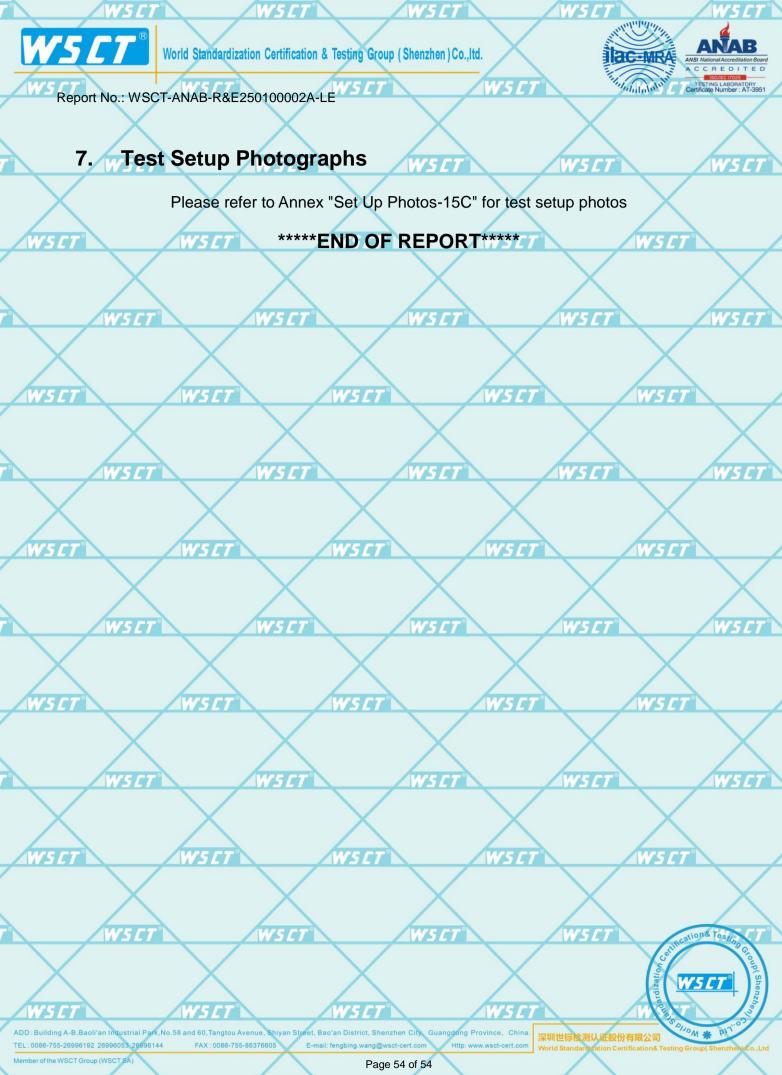
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WSET

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WSC1