	と 灰リ chnology						
	TEST REPOR	Т					
FCC ID :	2BFEP-DBCAM6						
Test Report No:	TCT241230E031						
Date of issue:	Jan. 03, 2025						
Testing laboratory:	SHENZHEN TONGCE TESTING LAB						
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China						
Applicant's name: :	CONVERGE BEAUTY LIMITED						
Address:	FLAT/RM C 22/F FORD GLORY STREET LAI CHI KOK KOWLOO	LAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG, China					
Manufacturer's name :	CONVERGE BEAUTY LIMITED						
Address:	FLAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG, China						
Standard(s):	FCC CFR Title 47 Part 15 Subpa	art C Section 15.231					
Product Name:	Doorbell Camera	KC)	S)				
Trade Mark:	N/A						
Model/Type reference :	P80, M60, M70, M80, M90, T60, U90, N60, N70, N80, N90, P60,	T70, T80, T90, U60, P70, P90	U70, U80,				
Rating(s):	Rechargeable Li-ion Battery DC	3.7V					
Date of receipt of test item	Dec. 30, 2024	(C)					
Date (s) of performance of test:	Dec. 30, 2024 ~ Jan. 03, 2025						
Tested by (+signature) :	Onnado YE	Onnado De GCE					
Check by (+signature) :	Beryl ZHAO	Boy TCT					
Approved by (+signature):	Tomsin						
General disclaimer:							
TONGCE TESTING LAB. THE TESTING LAB personnel on test results in the report only	oduced except in full, without the his document may be altered or re ly, and shall be noted in the revis apply to the tested sample.	e written approval of S evised by SHENZHEI ion section of the doc	N TONGCE ument. The				

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TCT通测检测 TESTING CENTRE TECHNOLOGY

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TCT通测检测 TESTING CENTRE TECHNOLOGY

1. General Product Information

1.1. EUT description

Product Name:	Doorbell Camera		
Model/Type reference:	P80		
Sample Number:	TCT241230E023-0101		
Operation Frequency:	433.92MHz		
Modulation Technology:	FSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	-1.30dBi		
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	

Report No.: TCT241230E031

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

, M70, M80, N el, other mode del names. So	M90, T60, I60, N70, N Is are deriva	P80 , T70, T80, N80, N90, F tive models.	T90, U60, 260, P70, F	U70, U80, '90	U90,	
, M70, M80, N el, other mode del names. So	M90, T60 160, N70, N Is are deriva	, T70, T80, N80, N90, F tive models.	T90, U60, 260, P70, F	U70, U80, '90	U90,	
el, other mode del names. So	els are deriva	tive models.				
	ino icoi uala	of P80 can r	The models a epresent the	are identical in remaining m	n circuit and l odels.	PCB layout



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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3. General Information

3.1. Test Environment and Mode

Operating Er	nvironment:					
Condition		Conducted E	mission	Radiated	Emission	
Temperat	ture:	22.8 °C		22.6 °C		
Humidity)	49 % RH	No.	53 % RH	No.	
Test Mode:		·				
Operation	us transmitt	ing				
performed. E continuously Z) and consi interconnect both horizon shown in Tes	During the test, working, invest dered typical c ing cables, rota tal and vertical at Results of the ne construction an	each emission stigated all oper onfiguration to sting the turntal polarizations. e following pag	was maximiz ating modes, obtain worst p ole, varying ar The emissions es.	e EUT was place	the EUT all 3 axis (X pulating from 1m to (Y axis) are ad on three diff	K, Y & 4m in erent pola
Ax	kis, r axis, ∠ axis. kis	which was shown	in this test repo	rt and defined as	s follows: Z	
Field Streng	th(dBuV/m)	52.47	55	5.31	52.59	6
nal Test Mode: ccording to ANSI axis (see the tes	C63.10 standards t setup photo)	s, the test results a	are both the "wor	rst case" and "w	orst setup":	(E)
					Page	5 of 27

TCT通测检测

3.2. 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.

Equipment	Model No.	Model No. Serial No.		Trade Name	
Adapter	EP-TA200	R37M4PR7QD4SE3	/	SAMSUNG	

Note:

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

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4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB.

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A
 - SHENZHEN TONGCE TESTING LAB
 - CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 1.08dB
3	Spurious emissions, conducted	± 2.94 dB
4	Occupied Bandwidth	± 0.25 KHz
5	All emissions, radiated(<1 GHz)	± 4.56 dB
6	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
7	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
8	Temperature	± 0.1°C
9	Humidity	± 1.0%
G1)		Q_)



5. Test Results and Measurement Data

5.1. Antenna Requirement



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	No.				
Test Method:	ANSI C63.4:2014						
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto				
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50				
	Reference	Plane	(201				
Test Setup:	E.U.T AC power Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ner Test table height=0.8m	r <u>80cm</u> LISN Filter EMI Receiver	r AC power				
Test Mode:	Charging + Transmittin	g Mode					
Test Procedure:	 The E.U.T and simulation power through a line (L.I.S.N.). This provimpedance for the million of the power through a Line coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative through a line of the block photographs. 	lators are conne impedance state ovides a 500hm leasuring equipm es are also conne SN that provides with 500hm tern diagram of the line are checked ince. In order to fine e positions of equip	cted to the main pilization network of coupling ent. ected to the main s a 500hm/50uH nination. (Please test setup and ed for maximum nd the maximum ipment and all o				
	ANSI C63.4: 2014 or	n conducted mea	surement.				

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5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025				
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025				
Attenuator	N/A	10dB	164080	Jun. 26, 2025				
Line-5	тст	CE-05	1	Jun. 26, 2025				
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1				



Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.2.1. Test data



Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading 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 $(dB\mu V)$ – Limits $(dB\mu V)$ 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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Report No.: TCT241230E031



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Site 844 Shielding RoomPhase: NTemperature: 22.8 (°C)Humidity: 49 %Limit: FCC Part 15C Conduction(QP)Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.26	9.65	46.91	66.00	-19.09	QP	
2		0.1500	26.75	9.65	36.40	56.00	-19.60	AVG	
3		0.1739	34.75	9.64	44.39	64.77	-20.38	QP	
4	*	0.1739	26.21	9.64	35.85	54.77	-18.92	AVG	
5		0.2260	30.32	9.63	39.95	62.60	-22.65	QP	
6		0.2260	22.87	9.63	32.50	52.60	-20.10	AVG	
7		0.4020	22.24	10.03	32.27	57.81	-25.54	QP	
8		0.4020	17.31	10.03	27.34	47.81	-20.47	AVG	
9		7.7580	21.25	10.25	31.50	60.00	-28.50	QP	
10		7.7580	12.33	10.25	22.58	50.00	-27.42	AVG	
11		11.3179	22.67	10.29	32.96	60.00	-27.04	QP	
12		11.3179	13.63	10.29	23.92	50.00	-26.08	AVG	

Note:

VU	ie.		
	Freq. = Emission frequency in MHz		
	Reading level ($dB\mu V$) = Receiver reading		
	Corr. Factor (dB) = LISN factor + Cable loss		
	Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)		
	Limit (dB μ 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 ran	ge 150 kHz to 30MHz.	



5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209				
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2020				
Frequency Range:	9 kHz to 5 G	Hz			
Measurement Distance:	3 m	N.)		
Antenna Polarization:	Horizontal &	Vertical			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	Detector Quasi-peak Quasi-peak Quasi-peak Peak Peak	RBW 200Hz 9kHz 120KHz 1MHz 1MHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value
Test Procedure:	 The EUT v meters a below 10 1GHz. T determine The EU interferen on the top The anter meters at value of vertical p the meas For each s to its wor heights fit table was find the m The test- Function Hold Mod If the emi 10dB lowe be stopped reported. 0 10dB mar peak, quas then report 	was placed bove the g GHz, 1.5m he table the position to of a varia of a vari	on the to ground a a above was rot on of the et 3 m is varied ound to o strength s of the a emission d then th er to 4 m om 0 deg eading. ystem w ified Bal of the E limit spect be re-te average r	pp of a ro t a 3 m the gro tated 30 highest eters a na, whic nt antenr from or determin antenna , the EU e antenr neters ar grees to as set t ndwidth EUT in p cified, the es of the sions th sted one method a	 bitating table 0.8 bitation bitat



5.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750*	125 to 375*
174-260	3750	375
260-470	3750 to 12500*	375 to 1250*
Above 470	12500	1250
Horn Antenna	Schwarzbeck	BBHA 9120D
*Linear interpolations		

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, $\mu V/m$ at 3 meters = 56.81818(F) - 6136.3636;

for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fund	amental Frequency (MHz)	Filed Strength o Fundamental (dBµ	of File V/m) Emis	d Strength of Spurious ssion(dBµV/m)
9	433.92	80.83		60.83
1. Intent limits measu 2.Accord on me	ional radiators operating on the field strength of en ured emissions. ding to 15.35, on any frequessuring equipment emplo vidths, unless otherwise s	under the provisions of this Section nissions, as shown in the above ta uency or frequencies below or equ oying a CISPR quasi-peak detecto specified the limit on peak radio fre	n shall demonstrate c able, based on the aver al to 1000 MHz, the lin function and related equency emissions is 2	ompliance with the erage value of the mits Shown are based I measurement 20dB above the
3. Accorr on the averag Sectio	num permitted average en ding to 15.231(b), The lin e fundamental frequency o ge (or, alternatively, CISP on 15.209, whichever limit	mission limit applicable to the equi nits on the field strength of the spu of the intentional radiator. Spurious PR quasi-peak) limits shown in this t permits one higher field strength.	rious emissions in the s emissions shall be a table or to the genera	e above table is based attenuated to the al limits shown in
3. Accorr on the averag Sectio	num permitted average en ding to 15.231(b), The lin e fundamental frequency o ge (or, alternatively, CISP on 15.209, whichever limit	mission limit applicable to the equi nits on the field strength of the spu of the intentional radiator. Spurious PR quasi-peak) limits shown in this t permits one higher field strength.	rious emissions in the s emissions shall be a table or to the genera	e above table is based attenuated to the al limits shown in

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dBµV/m)		
0.009-0.490	3	20log 2400/F (kHz) + 80		
0.490-1.705	3	20log 24000/F (kHz) + 40		
1.705-30	3	20log 30 + 40		
30-88	3 (6)	40.0		
88-216	3	43.5		
216-960	3	46.0		
Above 960	3	54.0		

Note:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

5.3.3. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

	Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025	
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025	
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025	
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025	
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025	
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025	
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025	
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025	
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-03-M		Jun. 26, 2025	
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-04-D		Jun. 26, 2025	
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025	
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025	
Antenna Mast	Keleto	RE-AM			
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/	

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Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
433.92	69.86	М	100.83	-32.35
433.92	69.04	V	100.83	-33.49
		(ć		

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
433.92	69.86	-5.68	ЮН	64.18	80.83	-16.65
433.92	69.04	-5.68	V	63.36	80.83	-17.47

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(C) (C)		
<u> </u>		-7
Nota: 1 Emission Lawal Baading (Cable loss Antonna fastar Amn fastar	

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Below 1GHz

Limit: FCC Part 15C RE_3m Power: DC 3.7 V Limit Margin Frequency Reading Factor Level Detector P/F Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 46.5030 33.76 -18.66 15.10 40.00 1 -24.90 QP Ρ 2 199.9855 47.41 -21.32 26.09 43.50 -17.41 QP Ρ 297.2240 3 36.17 -17.65 18.52 46.00 -27.48 QP Ρ 4 599.3212 35.94 -9.91 26.03 46.00 -19.97 QP Ρ 5 731.9202 43.54 -8.07 35.47 46.00 -10.53 QP Ρ 6 * 869.1302 49.05 -6.57 42.48 46.00 -3.52 QP Ρ

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Above 1GHz (PK value)

Frequency PK Value (MHz)	Read Level PK (dBuV)	Correction Factor (dB/m)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1301.76	62.22	-18.59	43.63	80.83	-37.20	Vertical
1735.68	54.44	-18.14	36.30	80.83	-44.53	Vertical
2169.60	52.96	-17.61	35.35	80.83	-45.48	Vertical
2603.52	49.53	-16.45	33.08	80.83	-47.75	Vertical
3037.44	48.41	-14.84	33.57	80.83	-47.26	Vertical
3471.36	46.03	-14.17	31.86	80.83	-48.97	Vertical
1301.76	60.96	-18.59	42.37	80.83	-38.46	Horizontal
1735.68	56.74	-18.14	38.60	80.83	-42.23	Horizontal
2169.60	54.42	-17.61	36.81	80.83	-44.02	Horizontal
2603.52	54.33	-16.45	37.88	80.83	-42.95	Horizontal
3037.44	53.01	-14.84	38.17	80.83	-42.66	Horizontal
3471.36	51.48	-14.17	37.31	80.83	-43.52	Horizontal

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (dB μ V/m)- limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown " * " in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

5.4. Manually Activated Transmitter

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 1	FCC Part15 C Section 15.231(a)(1)		
Test Method:	ANSI C63.10: 2020			
Limit:	According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.			
Test Procedure:	 According to the follor position between the Set to the maximum EUT transmit continut Use the following spect RBW = 100KHz, VBV Span = 0; Sweep Tim Detector function = p Measure and record the 	w Test-setup, keep the relative artificial antenna and the EUT. power setting and enable the ously. ctrum analyzer settings. V≥RBW; ne > T(on)+5S; eak; ne results in the test report.		
Test setup:	Spectrum Analyzer	EUT		
Test Mode:	Refer to Item 3.1			
Test results:	PASS			

5.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025

5.5. Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231C
Test Method:	ANSI C63.10: 2020
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = 50KHz, centered on a hopping channel; RBW = 3KHz; VBW = 10KHz; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Refer to Item 3.1
Test results:	PASS

5.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025

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