



FCC PART 15B

TEST REPORT

For

PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED

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FCC ID: 2AJGM-RD-55PRO

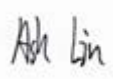
Report Type: Original Report	Product Name: Amateur Radio
Report Number:	<u>2507U05487E-EM-01</u>
Report Date:	<u>2025-07-04</u>
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507U05487E-EM-01	R1V1	2025-07-04	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:		PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED
Product Name:		Amateur Radio
Tested Model:		RD-55 PRO
Multiple Model(s):		UV-5R Hup,RD-55M, RD-55 MAX, 16 Pro Max,VBT-UV68, UV-5R Plus, UV-9R Plus
Trade mark:		BAOFENG, VBTER FREEDOMGO
Power Supply:		DC 7.4V from battery or DC 5V from adapter
Adapter information:	Model:	A318-050100W-US2
	Input:	AC 100-240V, 50-60Hz, 0.2A
	Output:	DC 5V, 1A
★Highest Operating Frequency:		2480 MHz
EUT Receive Status:		Good
<i>Note:</i>		
1. The highest operating frequency is provided by the applicant.		
2. The test model is identify with the series model except for the model name, trade name and color; please refer to declaration letter for more detail.		
3. All measurement and test data in this report was gathered from production sample serial number: 3571-1 (Assigned by the BACL (Xiamen). The EUT was received on 2025-06-23).		

Objective

This report is prepared for *PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED* in accordance with Part 2-Subpart J, and Part 15-Subparts A and B of the Federal Communication Commission's rules.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the product as specified in CISPR 16-4-2. This uncertainty represents expanded uncertainty expressed at 95% confidence level using a coverage factor of k=2.

$$u_c(y) = \sqrt{\sum_i c_i^2 u^2(x_i)}$$

Item	Frequency Range	$U_{lab} = 2 u_c(y)$ (Confidence of 95%)
Conducted Emission	150kHz-30MHz	2.45dB
Radiated Emission	30MHz~200MHz (Horizontal)	3.33 dB
	30MHz~200MHz (Vertical)	3.51 dB
	200MHz~1GHz (Horizontal)	4.87 dB
	200MHz~1GHz (Vertical)	4.99 dB
	1GHz~6GHz	4.88 dB
Unwanted Emissions, conducted		2.92 dB
Humidity		5%
Temperature		1°C

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test Mode 1: Charging & Scanning & BT Operating Test Mode 2: Charging & Receiving & BT Operating
Test voltage:	Test Mode 1: DC 5V from adapter (AC 120V/60Hz) Test Mode 2: DC 5V from adapter (AC 120V/60Hz)
Remark:	EUT does not support charging from charging base, please refer to User Manual.

Description of Test Configuration

Operation Modes	Operation Frequency Range (MHz)	Test Frequency (MHz)
Scanning	136-174 400-520	136-174 400-520
VHF Receiving	136-174	136.0125, 155, 173.9875
UHF Receiving	400-520	400.0125, 460, 519.9875

EUT Exercise Software

No exercise software was used to test.

Special Accessories

No special accessory was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HP	RF Communications test set	8920A	3524A07202
Unknown	Antenna	Unknown	Unknown
PO FUNG ELECTRONIC (HK) INTERNATIONAL GROUP COMPANY LIMITED	Earphone	Unknown	Unknown
MIUI	BT Earphone	Redmi Buds 5 Pro	Unknown

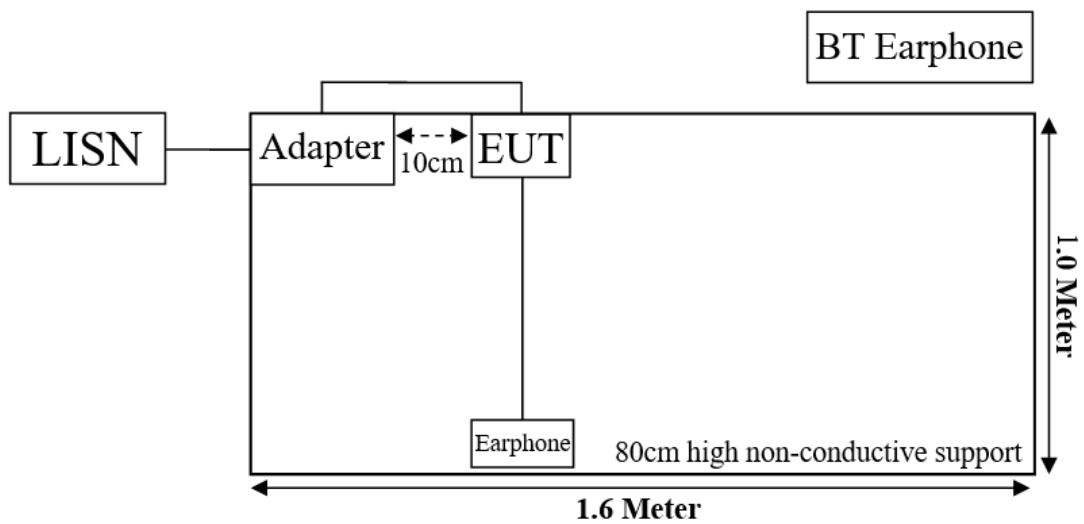
External I/O Cable

Cable Description	Length (m)	From Port	To Port
Antenna Cable	3.0	8920A	Antenna
Earphone Cable	1.2	EUT	Earphone
Power Cable	0.8	Adapter	EUT

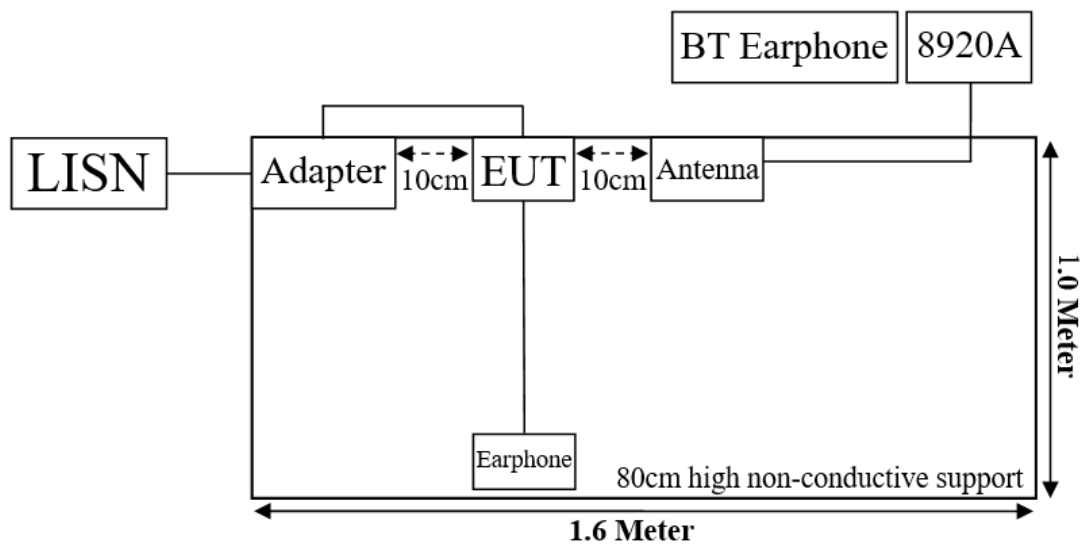
Block Diagram of Test Setup

Conducted Emission:

Test Mode 1:



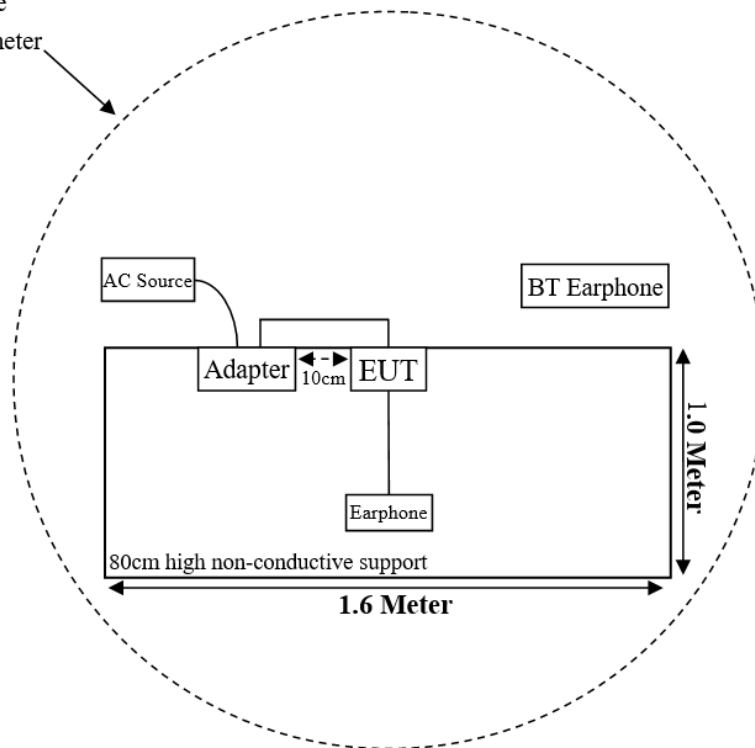
Test Mode 2:



Radiated Emission:

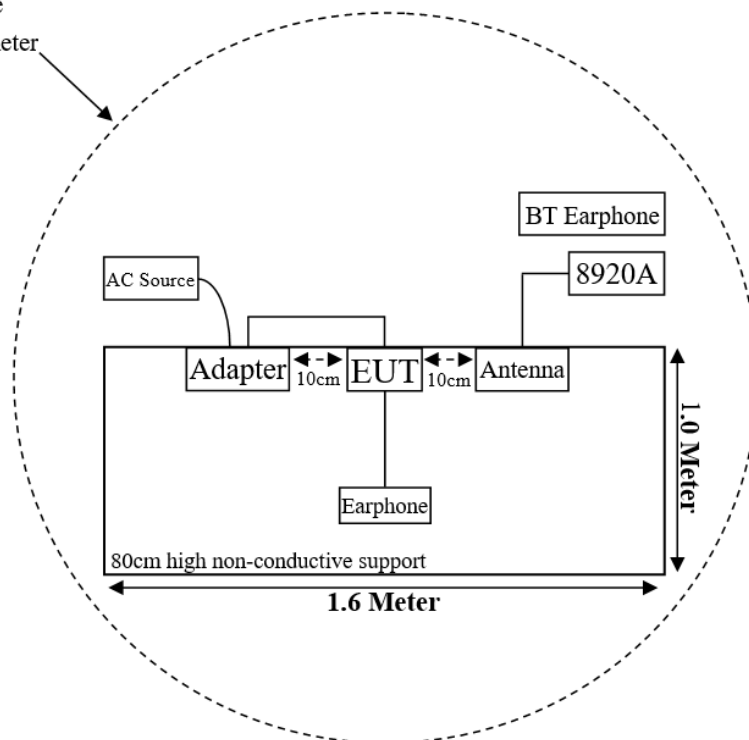
Test Mode 1:

Turntable
2m Diameter



Test Mode 2:

Turntable
2m Diameter



SUMMARY OF TEST RESULTS

Rule Part	Description of Test	Results
FCC§15.107	Conducted Emission	Compliant
FCC§15.109	Radiated Emission	Compliant
FCC §15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2025/02/20	2026/02/19
LISN	Rohde & Schwarz	ENV216	100129	2025/02/20	2026/02/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emission 30 MHz to 1 GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emission Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2025/02/20	2026/02/19
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/01/16	2026/01/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Scanning Receiver					
Coaxial Cable	WEIHE	WH316	RFCC002	Each time	Each time
RF Communications test set	HP	8920A	3524A07202	2025/04/13	2026/04/12
Power Splitter	narda	4426LB-2	1661	N/A	N/A
Microwave Analog Signal Generator	Agilent	N5183A	MY47420335	2025/2/20	2026/2/19
Attenuator	Electronic Corporation	30-WA-FFN-30	1172435	2025/2/20	2026/2/19

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 - CONDUCTED EMISSION

Applicable Standard

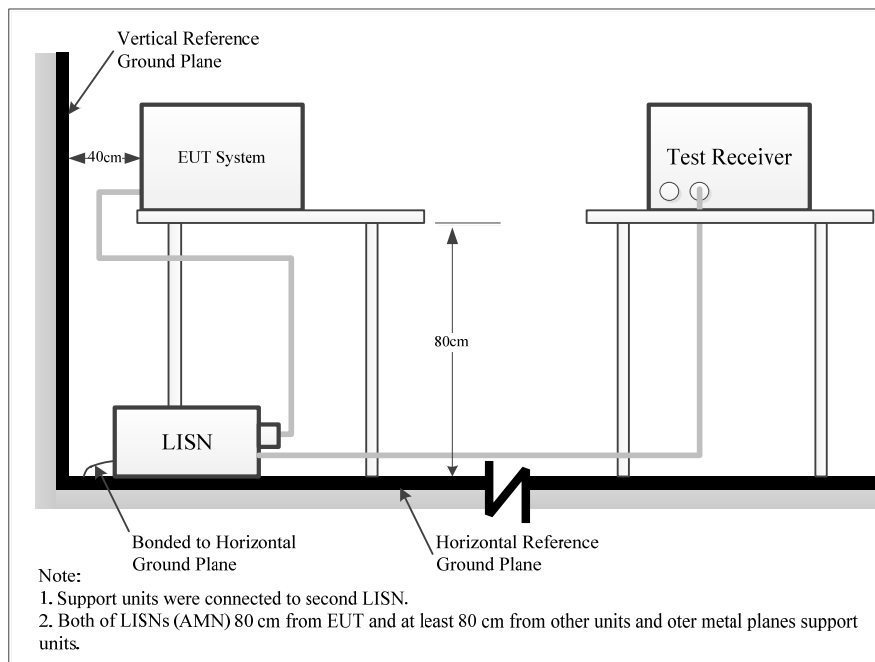
FCC §15.107

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

Test System Setup



The measurement procedure of test setup is according with ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Result (dB}\mu\text{V)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

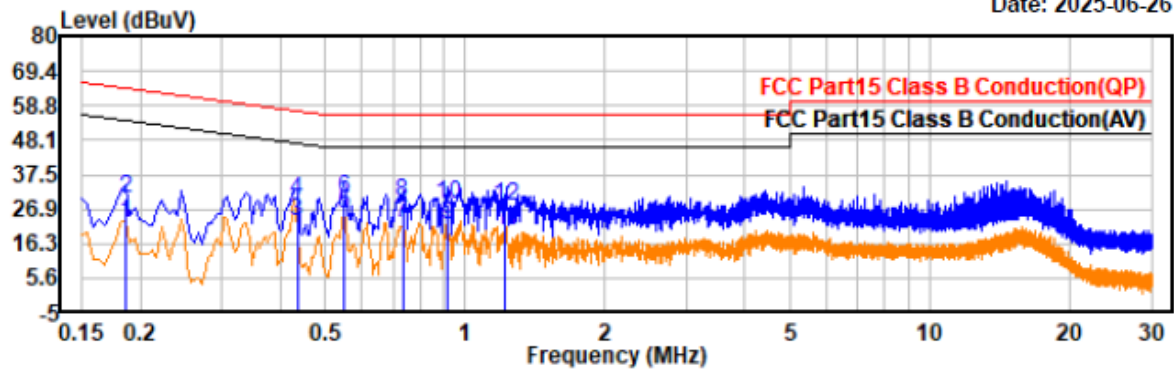
$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

Test Data (Worst case)

Project No.: 2507U05487E-EM
 Test Mode: Mode 1(136-174MHz)
 EUT Model: RD-55 PRO

Temp/Humi/ATM: 25.2°C/59%/99.9kPa
 Tested by: Apollo Luo
 Power Source: DC 5V from adapter
 (AC 120V/60Hz)

Date: 2025-06-26



Trace: 1

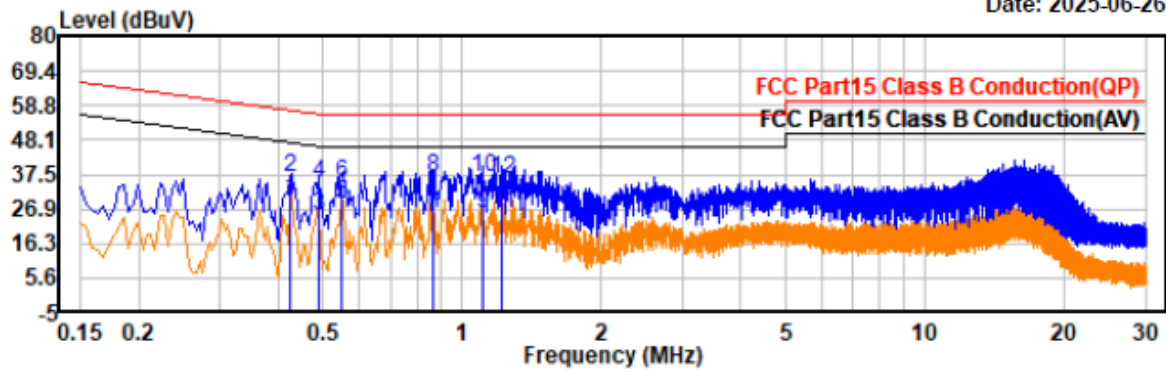
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.19	1.73	20.66	22.39	54.24	31.85	Line	Average
0.19	9.62	20.66	30.28	64.24	33.96	Line	QP
0.44	2.81	20.34	23.15	47.15	24.00	Line	Average
0.44	9.01	20.34	29.35	57.15	27.80	Line	QP
0.55	5.42	20.35	25.77	46.00	20.23	Line	Average
0.55	9.99	20.35	30.34	56.00	25.66	Line	QP
0.73	2.13	20.55	22.68	46.00	23.32	Line	Average
0.73	8.73	20.55	29.28	56.00	26.72	Line	QP
0.92	0.95	20.82	21.77	46.00	24.23	Line	Average
0.92	7.88	20.82	28.70	56.00	27.30	Line	QP
1.22	-0.68	20.98	20.30	46.00	25.70	Line	Average
1.22	6.73	20.98	27.71	56.00	28.29	Line	QP

Project No.: 2507U05487E-EM
 Test Mode: Mode 1(136-174MHz)
 EUT Model: RD-55 PRO

Temp/Humi/ATM: 25.2°C/59%/99.9kPa
 Tested by: Apollo Luo
 Power Source: DC 5V from adapter
 (AC 120V/60Hz)

Date: 2025-06-26



Trace: 1

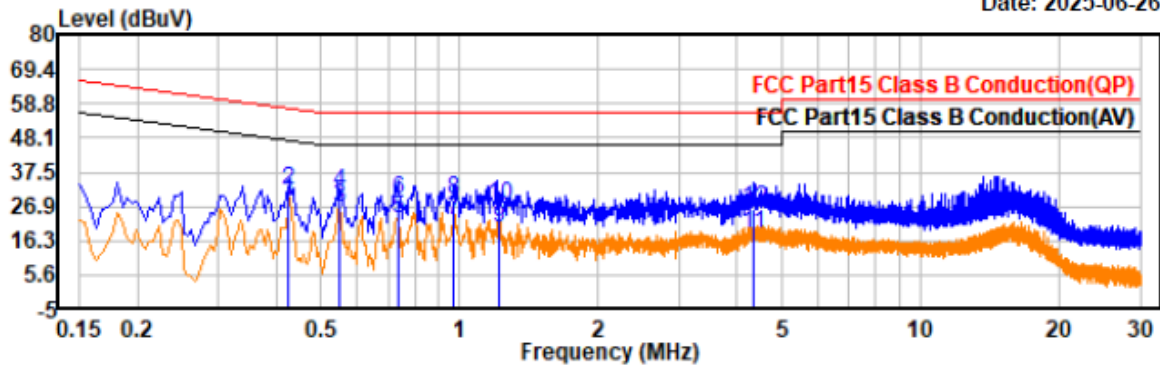
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.43	8.94	20.44	29.38	47.33	17.95	Neutral	Average
0.43	15.99	20.44	36.43	57.33	20.90	Neutral	QP
0.49	4.33	20.40	24.73	46.13	21.40	Neutral	Average
0.49	14.55	20.40	34.95	56.13	21.18	Neutral	QP
0.55	7.78	20.36	28.14	46.00	17.86	Neutral	Average
0.55	14.77	20.36	35.13	56.00	20.87	Neutral	QP
0.86	4.24	20.67	24.91	46.00	21.09	Neutral	Average
0.86	16.12	20.67	36.79	56.00	19.21	Neutral	QP
1.11	4.46	20.94	25.40	46.00	20.60	Neutral	Average
1.11	15.83	20.94	36.77	56.00	19.23	Neutral	QP
1.22	4.46	20.95	25.41	46.00	20.59	Neutral	Average
1.22	14.86	20.95	35.81	56.00	20.19	Neutral	QP

Project No.: 2507U05487E-EM
Test Mode: Mode 2(136.0125MHz)
EUT Model: RD-55 PRO

Temp/Humi/ATM: 25.2°C/59%/99.9kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-26



Trace: 1

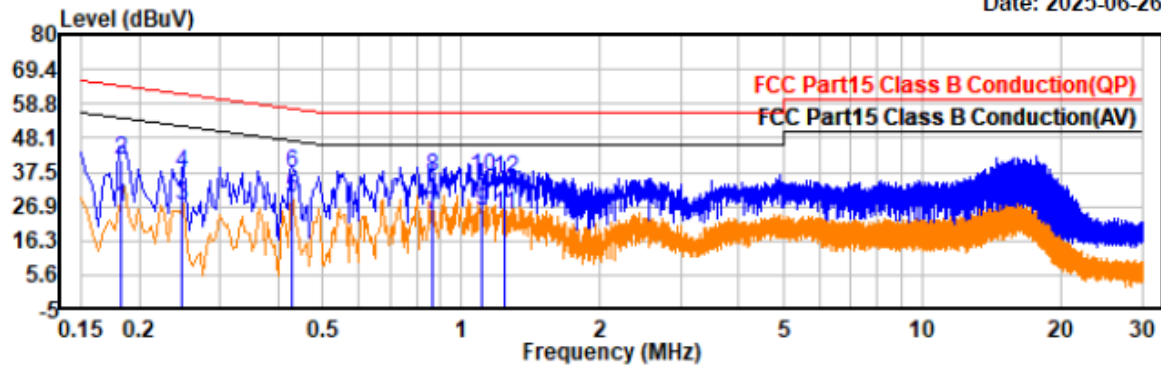
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.43	8.24	20.34	28.58	47.33	18.75	Line	Average
0.43	11.31	20.34	31.65	57.33	25.68	Line	QP
0.55	6.55	20.34	26.89	46.00	19.11	Line	Average
0.55	10.71	20.34	31.05	56.00	24.95	Line	QP
0.73	2.40	20.55	22.95	46.00	23.05	Line	Average
0.73	8.42	20.55	28.97	56.00	27.03	Line	QP
0.97	1.70	20.88	22.58	46.00	23.42	Line	Average
0.97	8.10	20.88	28.98	56.00	27.02	Line	QP
1.21	-1.03	20.98	19.95	46.00	26.05	Line	Average
1.21	6.05	20.98	27.03	56.00	28.97	Line	QP
4.33	-2.24	20.73	18.49	46.00	27.51	Line	Average
4.33	5.58	20.73	26.31	56.00	29.69	Line	QP

Project No.: 2507U05487E-EM
Test Mode: Mode 2(136.0125MHz)
EUT Model: RD-55 PRO

Temp/Humi/ATM: 25.2°C/59%/99.9kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-26



Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.18	6.01	20.69	26.70	54.36	27.66	Neutral	Average
0.18	20.45	20.69	41.14	64.36	23.22	Neutral	QP
0.25	6.41	20.60	27.01	51.86	24.85	Neutral	Average
0.25	16.43	20.60	37.03	61.86	24.83	Neutral	QP
0.43	9.32	20.44	29.76	47.30	17.54	Neutral	Average
0.43	16.86	20.44	37.30	57.30	20.00	Neutral	QP
0.86	3.67	20.67	24.34	46.00	21.66	Neutral	Average
0.86	15.43	20.67	36.10	56.00	19.90	Neutral	QP
1.11	4.26	20.94	25.20	46.00	20.80	Neutral	Average
1.11	15.29	20.94	36.23	56.00	19.77	Neutral	QP
1.24	3.11	20.95	24.06	46.00	21.94	Neutral	Average
1.24	14.63	20.95	35.58	56.00	20.42	Neutral	QP

FCC §15.109 - RADIATED EMISSION IN FREQUENCY**Applicable Standard**

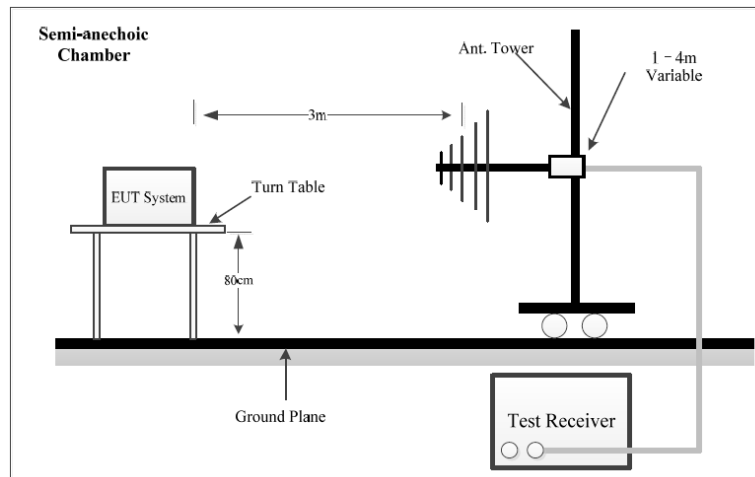
FCC§15.109

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

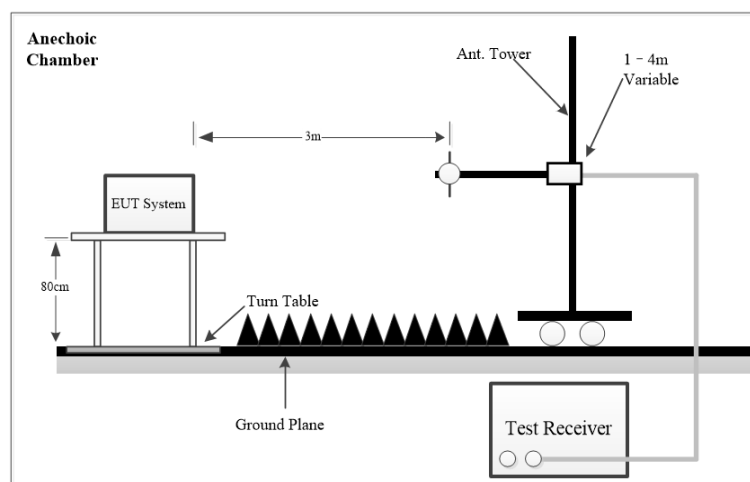
Frequency of emission (MHz)	Field strength (microvolts/meter)
30–88	100
88–216	150
216–960	200
Above 960	500

Test System Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK	PK
	/	/	120 kHz	QP	QP
Above 1 GHz	1 MHz	3 MHz	/	PK	PK
	1 MHz	10 Hz	/	AV	PK

Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Result (dBμV/m)

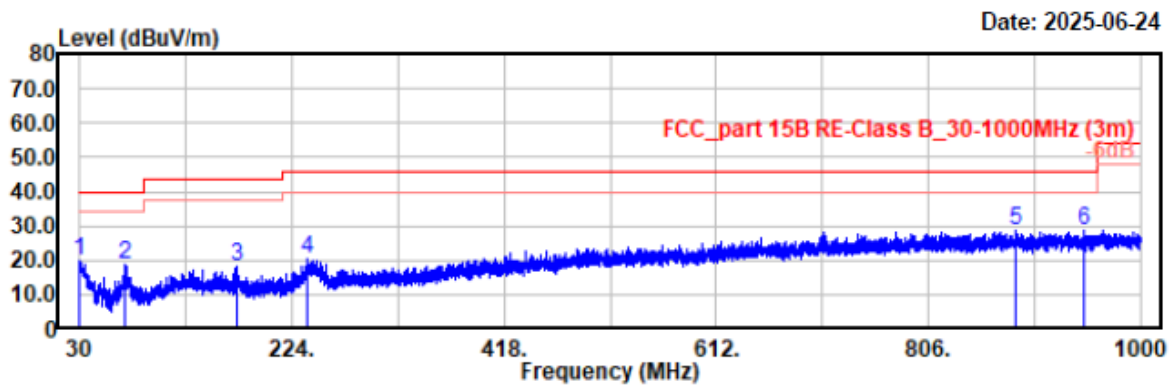
Test Data

Please refer to below plots:

1) 30MHz-1GHz:

Project No.: 2507U05487E-EM
Test Mode: Mode 1(136-174MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)



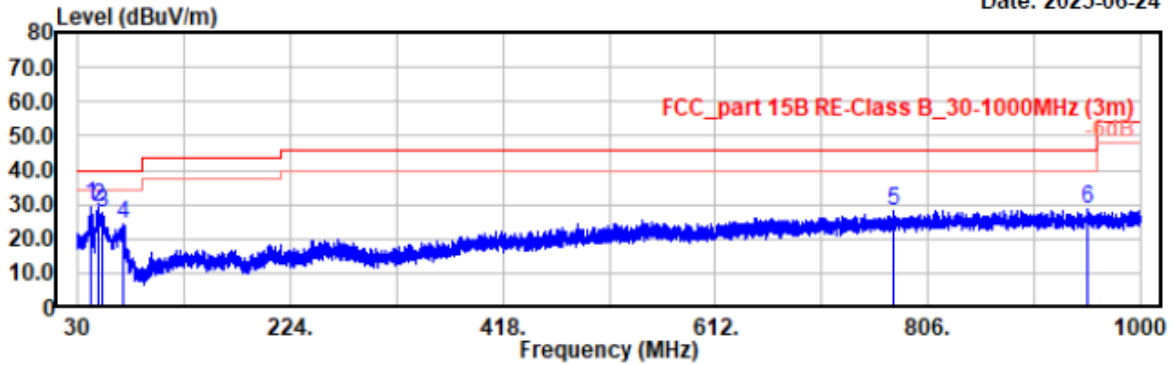
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.10	25.48	-5.63	19.85	40.00	20.15	Horizontal	Peak
71.13	36.08	-17.05	19.03	40.00	20.97	Horizontal	Peak
174.24	30.15	-12.13	18.02	43.50	25.48	Horizontal	Peak
238.84	32.04	-11.77	20.27	46.00	25.73	Horizontal	Peak
885.83	26.31	2.40	28.71	46.00	17.29	Horizontal	Peak
948.40	25.79	3.13	28.92	46.00	17.08	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 1(136-174MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



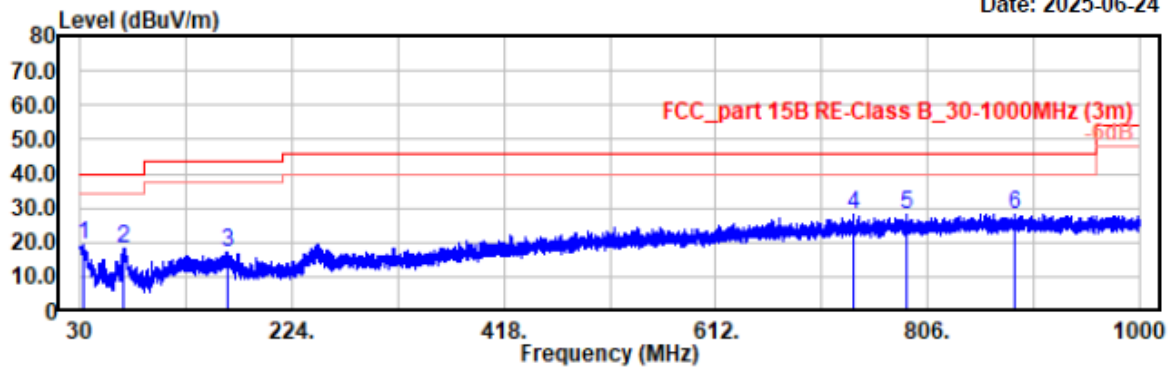
Condition: PK RBW:100kHz VBW:300kHz SwT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.54	42.26	-12.74	29.52	40.00	10.48	Vertical	Peak
48.62	46.58	-17.09	29.49	40.00	10.51	Vertical	Peak
52.02	45.27	-17.72	27.55	40.00	12.45	Vertical	Peak
71.52	41.46	-17.05	24.41	40.00	15.59	Vertical	Peak
775.15	27.39	0.96	28.35	46.00	17.65	Vertical	Peak
951.60	25.72	3.18	28.90	46.00	17.10	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 1(400-520MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



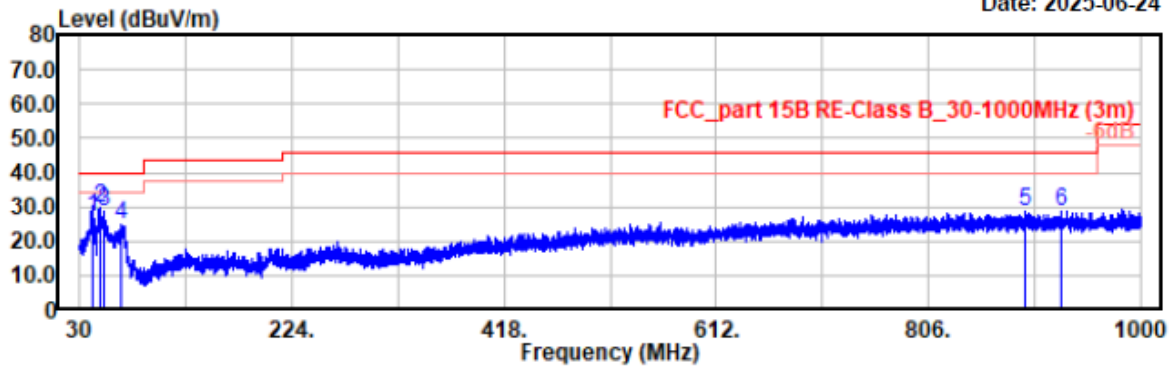
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.20	26.59	-7.06	19.53	40.00	20.47	Horizontal	Peak
70.45	35.45	-17.06	18.39	40.00	21.61	Horizontal	Peak
164.35	28.89	-11.61	17.28	43.50	26.22	Horizontal	Peak
737.62	27.78	0.31	28.09	46.00	17.91	Horizontal	Peak
786.70	26.77	1.10	27.87	46.00	18.13	Horizontal	Peak
885.54	25.78	2.39	28.17	46.00	17.83	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 1(400-520MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



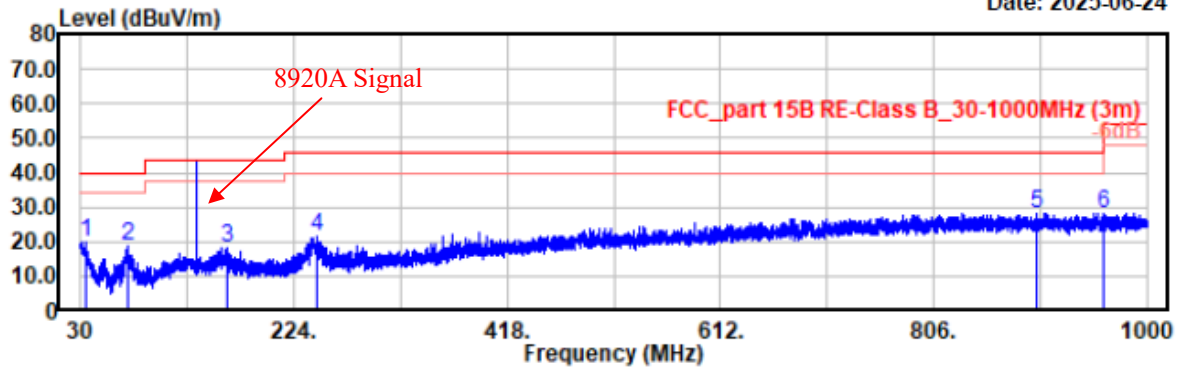
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.97	39.96	-13.08	26.88	40.00	13.12	Vertical	QP
48.82	46.84	-17.17	29.67	40.00	10.33	Vertical	Peak
52.60	46.29	-17.72	28.57	40.00	11.43	Vertical	Peak
68.61	41.82	-17.15	24.67	40.00	15.33	Vertical	Peak
894.85	26.39	2.42	28.81	46.00	17.19	Vertical	Peak
927.35	26.09	2.85	28.94	46.00	17.06	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(136.0125MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



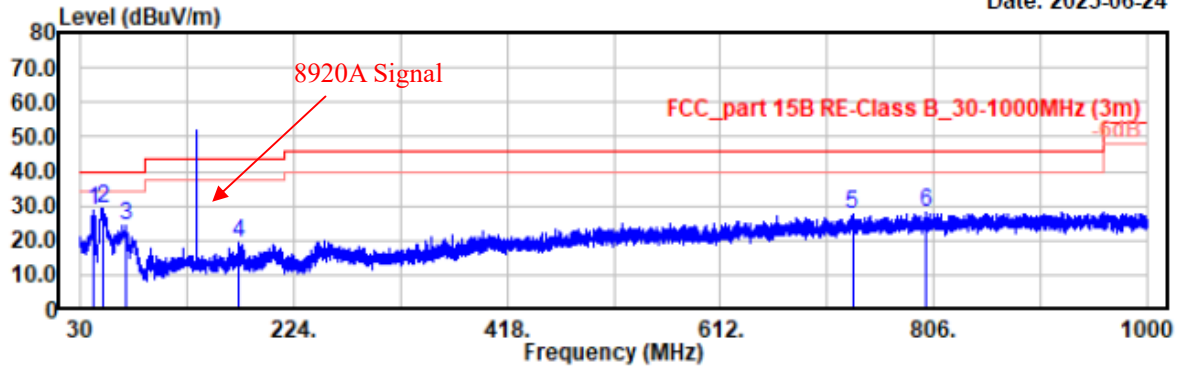
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
34.56	27.45	-7.81	19.64	40.00	20.36	Horizontal	Peak
73.26	35.67	-17.07	18.60	40.00	21.40	Horizontal	Peak
163.47	29.68	-11.57	18.11	43.50	25.39	Horizontal	Peak
244.95	32.95	-11.45	21.50	46.00	24.50	Horizontal	Peak
900.28	25.73	2.54	28.27	46.00	17.73	Horizontal	Peak
960.72	24.95	3.39	28.34	54.00	25.66	Horizontal	Peak

Project No.: 2507U05487E-EM
 Test Mode: Mode 2(136.0125MHz)
 EUT Model: RD-55 PRO
 Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
 Tested by: Apollo Luo
 Power Source: DC 5V from adapter
 (AC 120V/60Hz)

Date: 2025-06-24



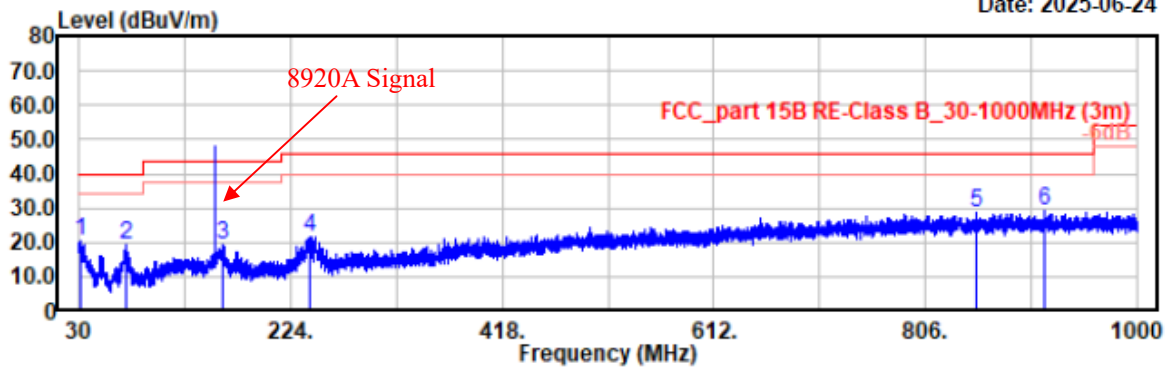
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.25	41.01	-12.52	28.49	40.00	11.51	Vertical	Peak
49.98	46.68	-17.33	29.35	40.00	10.65	Vertical	Peak
71.61	41.50	-17.04	24.46	40.00	15.54	Vertical	Peak
174.63	31.33	-12.13	19.20	43.50	24.30	Vertical	Peak
732.09	27.17	0.18	27.35	46.00	18.65	Vertical	Peak
798.73	26.83	1.25	28.08	46.00	17.92	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(155MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



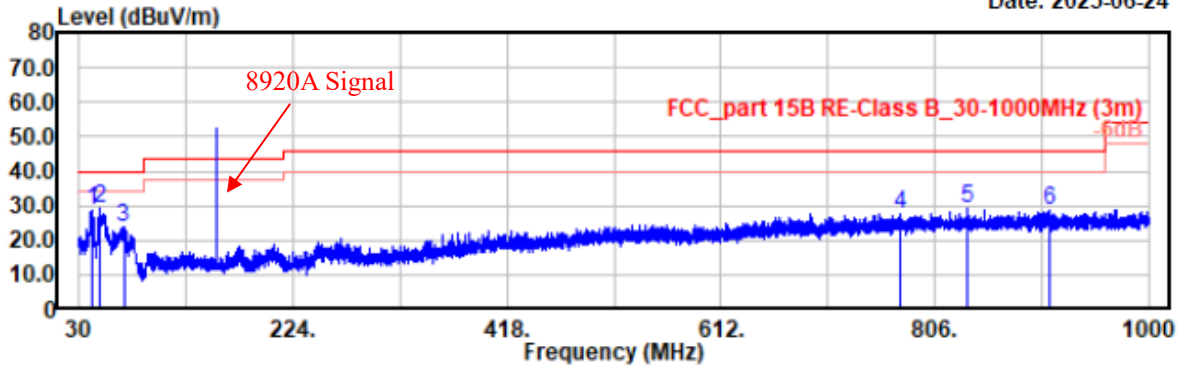
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.23	26.84	-6.53	20.31	40.00	19.69	Horizontal	Peak
72.39	36.43	-17.03	19.40	40.00	20.60	Horizontal	Peak
162.02	30.66	-11.43	19.23	43.50	24.27	Horizontal	Peak
241.56	33.37	-11.62	21.75	46.00	24.25	Horizontal	Peak
853.34	26.62	1.95	28.57	46.00	17.43	Horizontal	Peak
915.51	26.35	2.71	29.06	46.00	16.94	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(155MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



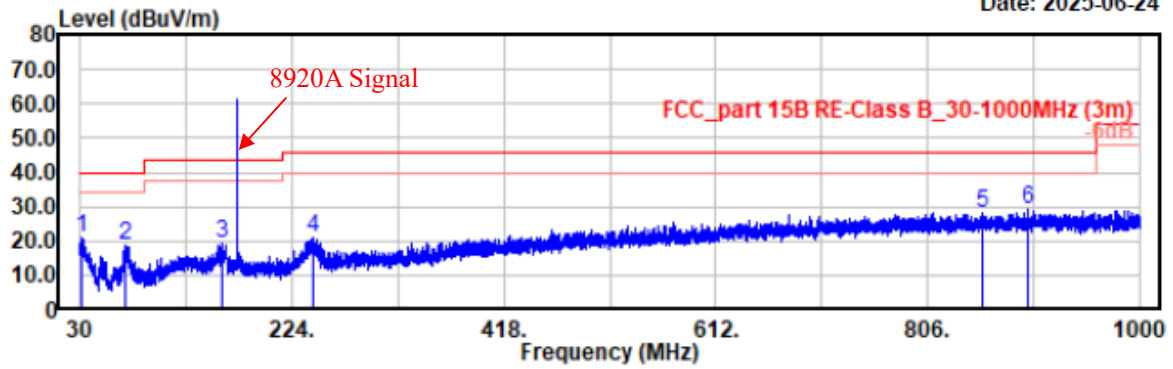
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.64	41.25	-12.82	28.43	40.00	11.57	Vertical	Peak
49.40	46.78	-17.28	29.50	40.00	10.50	Vertical	Peak
70.55	40.65	-17.06	23.59	40.00	16.41	Vertical	Peak
775.25	26.72	0.97	27.69	46.00	18.31	Vertical	Peak
835.29	27.20	1.79	28.99	46.00	17.01	Vertical	Peak
910.66	26.01	2.68	28.69	46.00	17.31	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(173.9875MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



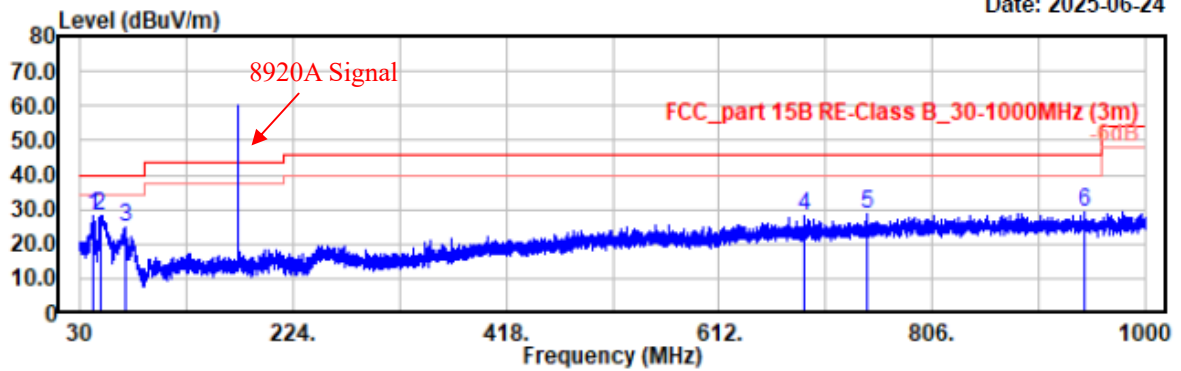
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
31.65	26.94	-6.21	20.73	40.00	19.27	Horizontal	Peak
71.42	36.00	-17.05	18.95	40.00	21.05	Horizontal	Peak
160.17	30.76	-11.47	19.29	43.50	24.21	Horizontal	Peak
242.62	32.52	-11.57	20.95	46.00	25.05	Horizontal	Peak
856.05	25.91	1.98	27.89	46.00	18.11	Horizontal	Peak
897.96	26.94	2.49	29.43	46.00	16.57	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(173.9875MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



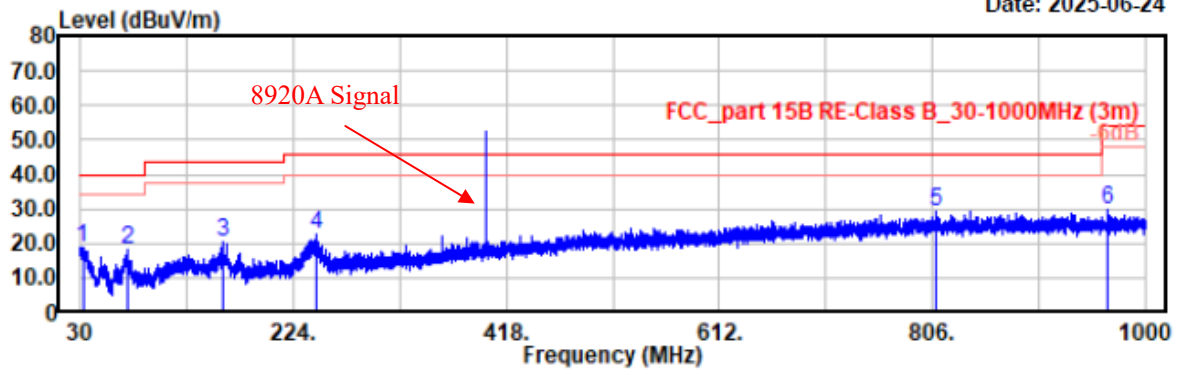
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.64	40.99	-12.82	28.17	40.00	11.83	Vertical	Peak
47.95	45.06	-16.82	28.24	40.00	11.76	Vertical	Peak
71.42	41.91	-17.05	24.86	40.00	15.14	Vertical	Peak
690.18	28.63	-0.45	28.18	46.00	17.82	Vertical	Peak
746.64	28.10	0.47	28.57	46.00	17.43	Vertical	Peak
945.49	26.10	3.12	29.22	46.00	16.78	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(400.0125MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



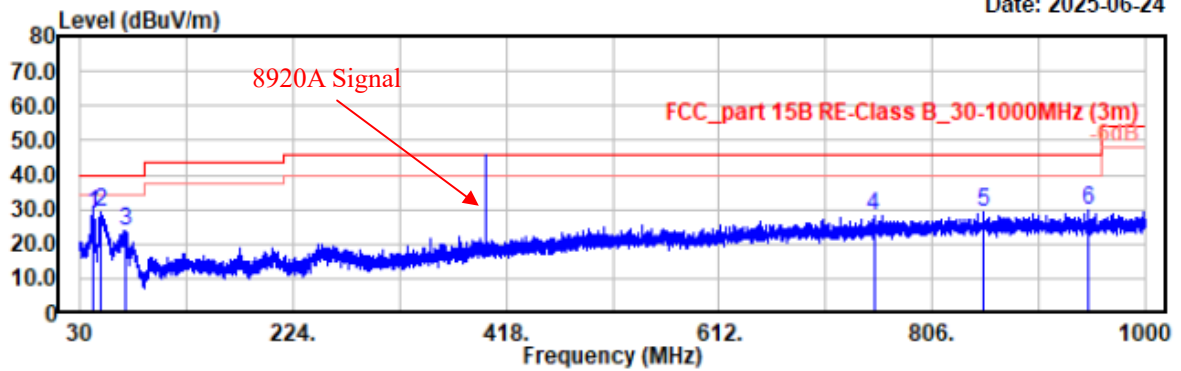
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.33	25.42	-6.59	18.83	40.00	21.17	Horizontal	Peak
73.46	35.04	-17.10	17.94	40.00	22.06	Horizontal	Peak
159.59	31.70	-11.45	20.25	43.50	23.25	Horizontal	Peak
245.73	33.85	-11.44	22.41	46.00	23.59	Horizontal	Peak
809.69	27.80	1.37	29.17	46.00	16.83	Horizontal	Peak
965.76	26.19	3.48	29.67	54.00	24.33	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(400.0125MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



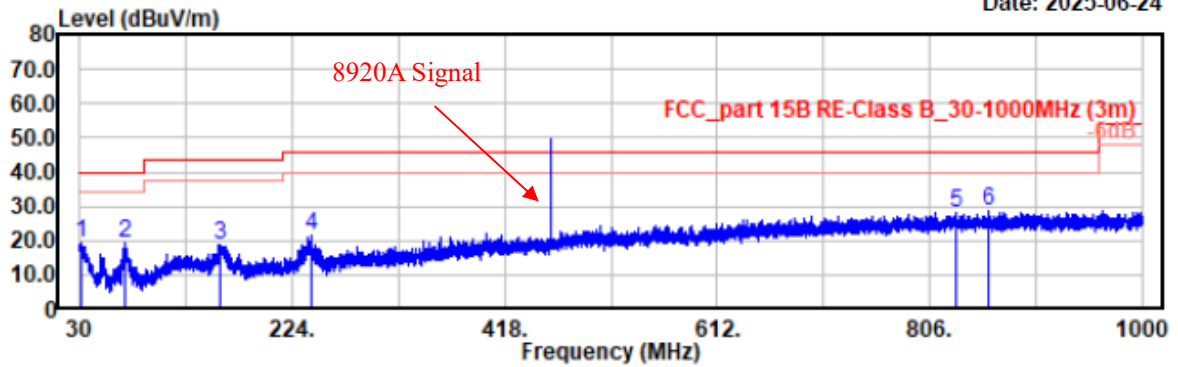
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.74	41.43	-12.90	28.53	40.00	11.47	Vertical	QP
49.40	46.67	-17.28	29.39	40.00	10.61	Vertical	Peak
71.81	40.68	-17.04	23.64	40.00	16.36	Vertical	Peak
752.94	27.86	0.50	28.36	46.00	17.64	Vertical	Peak
853.43	27.18	1.95	29.13	46.00	16.87	Vertical	Peak
948.78	26.43	3.14	29.57	46.00	16.43	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(460MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



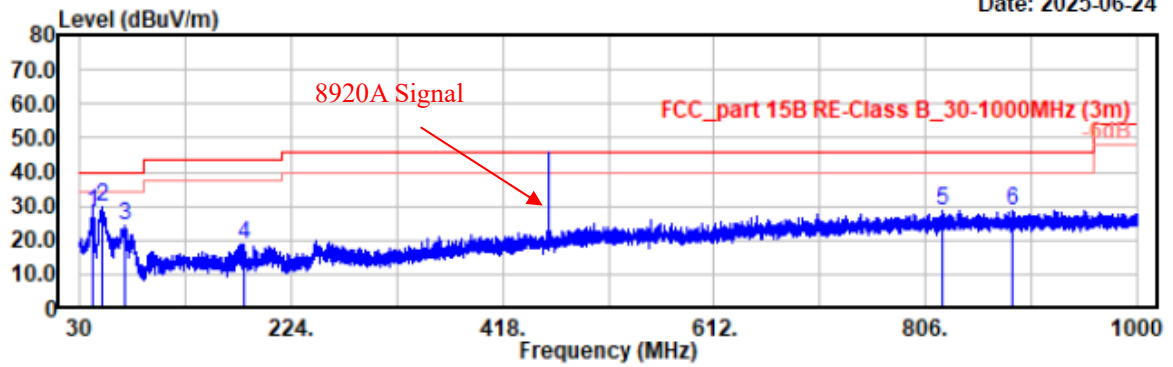
Condition: PK RBW:100kHz VBW:300kHz SwT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
31.55	25.57	-6.16	19.41	40.00	20.59	Horizontal	Peak
71.32	36.48	-17.05	19.43	40.00	20.57	Horizontal	Peak
158.91	30.05	-11.46	18.59	43.50	24.91	Horizontal	Peak
241.65	33.37	-11.61	21.76	46.00	24.24	Horizontal	Peak
829.96	26.33	1.77	28.10	46.00	17.90	Horizontal	Peak
860.03	26.68	2.08	28.76	46.00	17.24	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(460MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



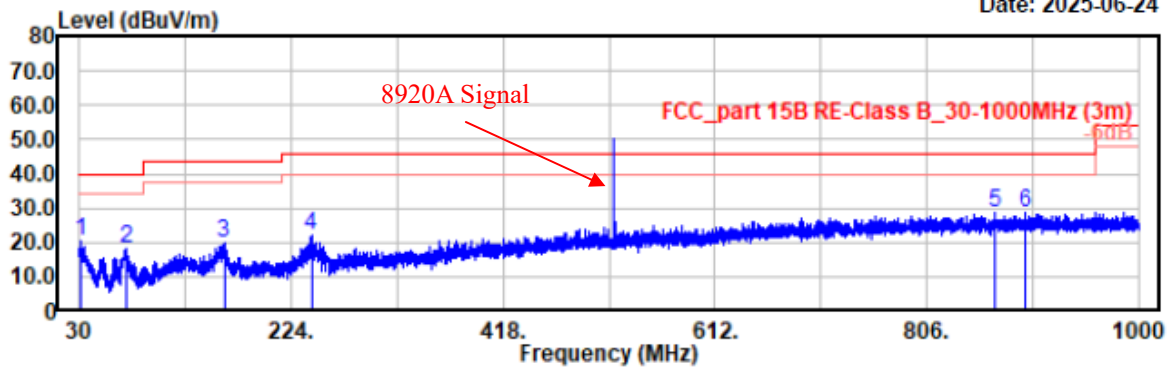
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBUV	Factor dB/m	Result dBUV/m	Limit dBUV/m	Margin dB	Polarity	Remark
41.54	40.64	-12.74	27.90	40.00	12.10	Vertical	QP
49.89	46.85	-17.32	29.53	40.00	10.47	Vertical	Peak
71.42	41.52	-17.05	24.47	40.00	15.53	Vertical	Peak
180.64	31.26	-12.36	18.90	43.50	24.60	Vertical	Peak
821.81	26.91	1.63	28.54	46.00	17.46	Vertical	Peak
886.32	26.25	2.41	28.66	46.00	17.34	Vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(519.9875MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



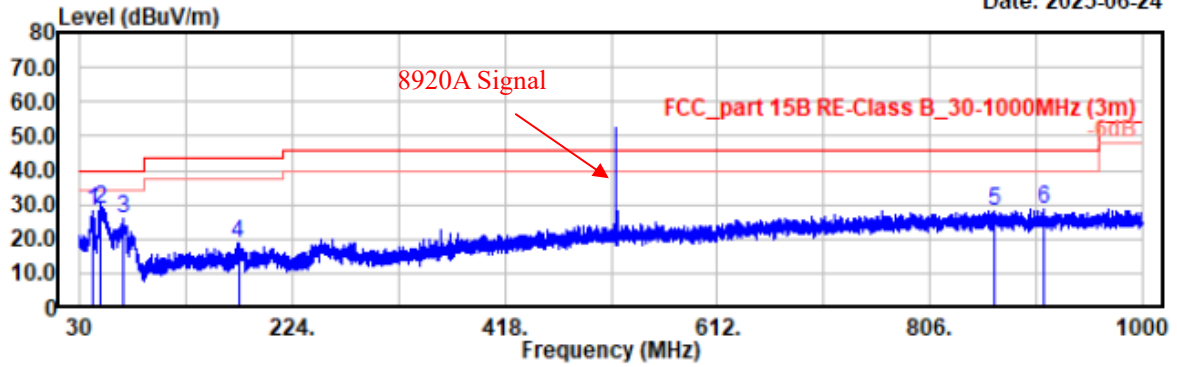
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.84	26.48	-6.32	20.16	40.00	19.84	Horizontal	Peak
72.78	35.24	-17.03	18.21	40.00	21.79	Horizontal	Peak
162.60	31.46	-11.48	19.98	43.50	23.52	Horizontal	Peak
242.43	33.47	-11.57	21.90	46.00	24.10	Horizontal	Peak
868.76	26.55	2.14	28.69	46.00	17.31	Horizontal	Peak
896.79	26.27	2.47	28.74	46.00	17.26	Horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(519.9875MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



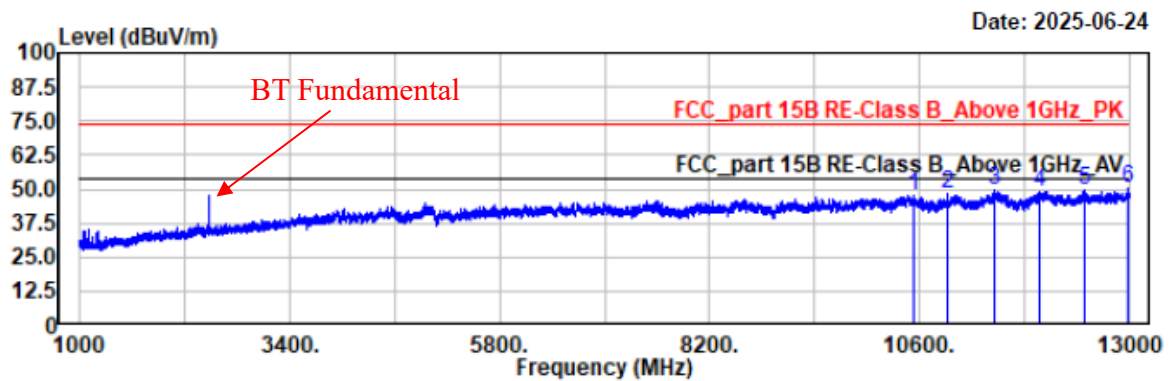
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
41.83	41.23	-12.98	28.25	40.00	11.75	Vertical	Peak
49.11	45.79	-17.25	28.54	40.00	11.46	Vertical	QP
70.06	43.09	-17.07	26.02	40.00	13.98	Vertical	Peak
174.72	30.96	-12.13	18.83	43.50	24.67	Vertical	Peak
864.88	26.14	2.20	28.34	46.00	17.66	Vertical	Peak
909.98	26.08	2.68	28.76	46.00	17.24	Vertical	Peak

2) 1GHz - 13GHz (Worst case)

Project No.: 2507U05487E-EM
Test Mode: Mode 1(400-520MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)



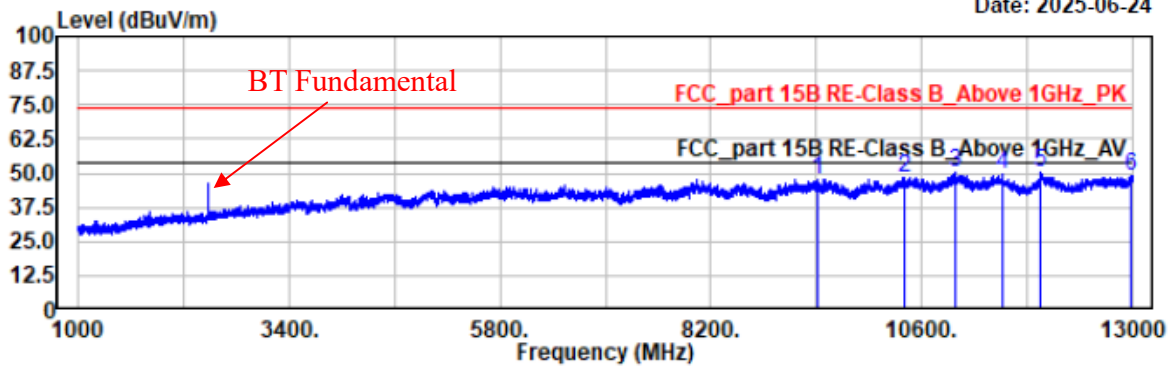
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
10534.00	46.22	1.70	47.92	74.00	26.08	horizontal	Peak
10925.20	46.00	2.03	48.03	74.00	25.97	horizontal	Peak
11448.40	46.35	3.04	49.39	74.00	24.61	horizontal	Peak
11980.00	46.01	3.21	49.22	74.00	24.78	horizontal	Peak
12480.40	46.16	3.31	49.47	74.00	24.53	horizontal	Peak
12986.80	45.75	4.42	50.17	74.00	23.83	horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 1(400-520MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



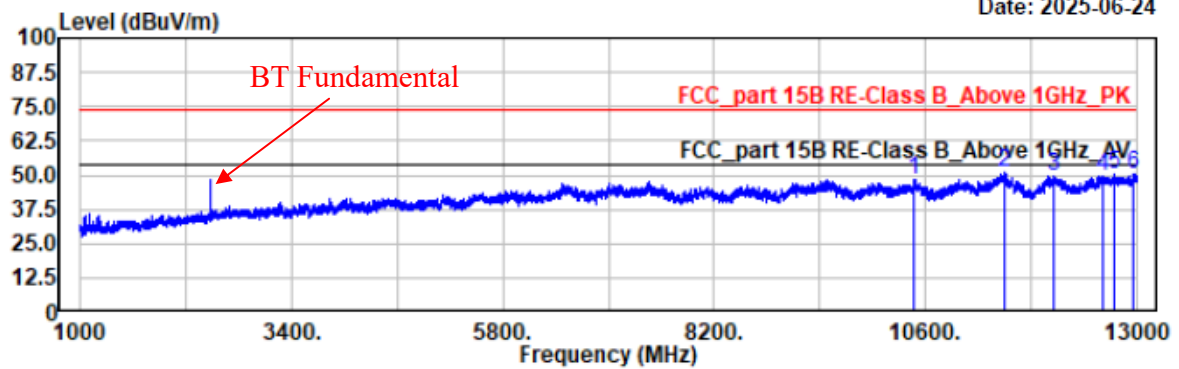
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
9412.00	47.30	0.53	47.83	74.00	26.17	vertical	Peak
10400.80	46.93	1.67	48.60	74.00	25.40	vertical	Peak
10984.00	48.02	2.13	50.15	74.00	23.85	vertical	Peak
11513.20	46.26	3.15	49.41	74.00	24.59	vertical	Peak
11959.60	46.84	3.21	50.05	74.00	23.95	vertical	Peak
12979.60	44.68	4.41	49.09	74.00	24.91	vertical	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(460MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



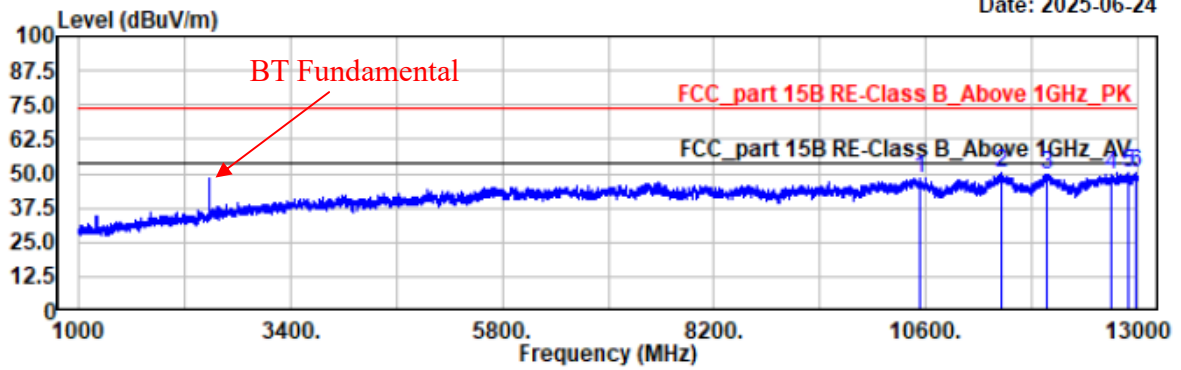
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
10460.80	46.78	1.67	48.45	74.00	25.55	horizontal	Peak
11508.40	47.61	3.15	50.76	74.00	23.24	horizontal	Peak
12054.40	46.49	3.20	49.69	74.00	24.31	horizontal	Peak
12618.40	46.32	3.64	49.96	74.00	24.04	horizontal	Peak
12737.20	46.35	3.86	50.21	74.00	23.79	horizontal	Peak
12959.20	45.68	4.36	50.04	74.00	23.96	horizontal	Peak

Project No.: 2507U05487E-EM
Test Mode: Mode 2(460MHz)
EUT Model: RD-55 PRO
Test distance: 3m

Temp/Humi/ATM: 23.8°C/59%/99.7kPa
Tested by: Apollo Luo
Power Source: DC 5V from adapter
(AC 120V/60Hz)

Date: 2025-06-24



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
10537.60	46.54	1.70	48.24	74.00	25.76	vertical	Peak
11454.40	46.99	3.05	50.04	74.00	23.96	vertical	Peak
11966.80	46.59	3.21	49.80	74.00	24.20	vertical	Peak
12707.20	46.15	3.81	49.96	74.00	24.04	vertical	Peak
12893.20	45.76	4.25	50.01	74.00	23.99	vertical	Peak
12990.40	45.92	4.42	50.34	74.00	23.66	vertical	Peak

FCC §15.121(b) – SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS

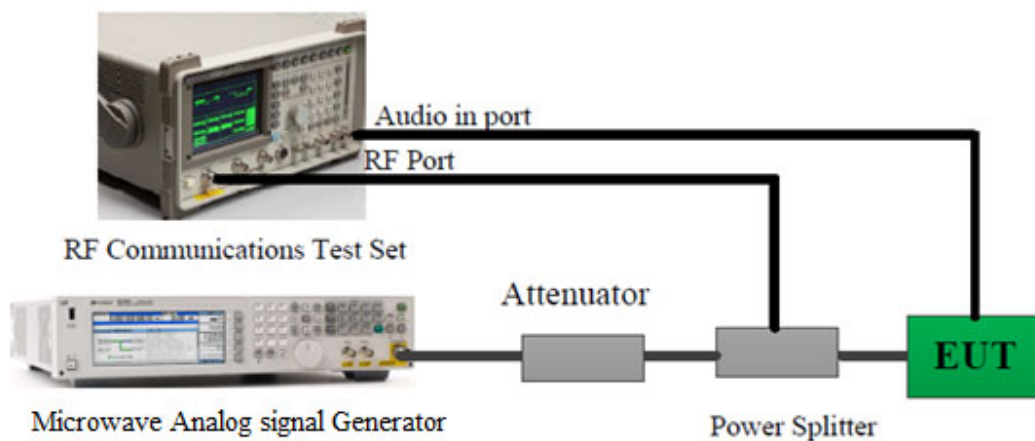
Applicable Standard

FCC §15.121(b).

(b) Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

Test Procedure

1. Connected the EUT as the below block diagram;



2. Apply a signal to the EUT antenna port at lowest, middle, highest channel frequencies of the operating band;
3. Adjust the audio output level of the EUT to its rated value with the distortion less than 10%;
4. Adjust the 8920 output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the 8920 at each channel frequency is the sensitivity of the EUT;
5. Select the lowest or worst case sensitivity level for all of the bands as the reference sensitivity;
6. Adjust the Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5 and its frequency to the frequency point in the Cellular Band;
7. Set the EUT squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level;
8. Set the EUT in a scanning mode and allow it to scan through its complete receiving range;
9. If the EUT un-squelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB;
10. Repeat above procedure at the frequencies 824, 836, 849 MHz for the mobile band, and 869, 881.5 and 894 MHz for the Cellular Base Band.

Test Data

Test Mode:	Scanning	Test Engineer:	Lucas Lin
Test Date:	2025-06-25	Test Result:	Pass

Environment Conditions:					
Temperature: (°C)	23.5	Relative Humidity: (%)	57	ATM Pressure: (kPa)	99.5

Scanning Frequency Range (MHz)	Test Frequency (MHz)	Measurement Result (Worst Case) (dB)	Limit (dB)
136-174	824, 836, 849, 869, 881.5, 894	49	>38
400-520		47	>38

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2507U05487E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2507U05487E-RF-INP EUT INTERNAL PHOTOGRAPHS

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507U05487E-RF-TSP-01 TEST SETUP PHOTOGRAPHS_PART 15B

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95 % confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

*******END OF REPORT*******