

FCC TEST REPORT

Shenzhen Retevis Technology Co., Ltd.

Digital Two Way Radio

Test Model: RT3S

Prepared for : Shenzhen Retevis Technology Co., Ltd.
Address : 7/F, 13-C, Zhonghaixin Science&Technology Park,
No.12 Ganli 6th Road, Jihua Street, Longgang District,
Shenzhen, China

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : April 15, 2026
Number of tested samples : 2
Sample No. : C260416001-1, C260416001-2
Serial number : Prototype
Date of Test : April 15, 2026 ~ April 21, 2026
Date of Report : April 21, 2026



FCC TEST REPORT	
FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4a-2017(Amendment to ANSI C63.4-2014)	
Report Reference No. : LCSC04146018E	
Date Of Issue : April 21, 2026	
Testing Laboratory Name : Guangzhou LCS Compliance Testing Laboratory Ltd.	
Address : No.44-1,Qianfeng North Road, Shiqi , Panyu District, Guangzhou, Guangdong, China	
Testing Location/ Procedure... : Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □	
Applicant's Name..... : Shenzhen Retevis Technology Co., Ltd.	
Address : 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China	
Test Specification	
Standard..... : FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4a-2017(Amendment to ANSI C63.4-2014)	
Test Report Form No..... : TRF-4-E-010 A/0	
TRF Originator..... : Guangzhou LCS Compliance Testing Laboratory Ltd.	
Master TRF..... : Dated 2011-03	
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Test Item Description. : Digital Two Way Radio	
Trade Mark : RETEVIS	
Test Model : RT3S	
Ratings : Please Refer to Page 7	
Result : PASS	

Compiled by:



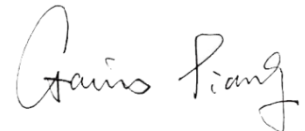
Lifeng Le/ Administrator

Reviewed by:



Justin Zhu/ Technique Director

Approved by:



Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. : LCSC04146018E	<u>April 21, 2026</u> Date of issue
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Test Model : RT3S

EUT..... : Digital Two Way Radio

Applicant..... : Shenzhen Retevis Technology Co., Ltd.

Address..... : 7/F, 13-C, Zhonghaixin Science&Technology Park,
No.12 Ganli 6th Road, Jihua Street, Longgang District,
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No.12 Ganli 6th Road, Jihua Street, Longgang District,
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Fax..... :

Factory..... : Shenzhen Retevis Technology Co., Ltd.

Address..... : 7/F, 13-C, Zhonghaixin Science&Technology Park,
No.12 Ganli 6th Road, Jihua Street, Longgang District,
Shenzhen, China

Telephone..... : /

Fax..... : /

Test Result according to the standards on page 6: **PASS**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	April 21, 2026	Initial Issue	---

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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Limits Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4a-2017(Amendment to ANSI C63.4-2014)	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4a-2017(Amendment to ANSI C63.4-2014)	PASS
Antenna Power Conduction Limits for Receivers	§ 15.111	PASS
Scanning receivers and frequency converters used with scanning receivers	§ 15.121(b)	PASS
N/A is an abbreviation for Not Applicable.		

Test mode:	
Mode 1	Charging mode
Mode 2	Receiving (UHF)
Mode 3	Receiving (VHF)
Mode 4	Scanning
***Note: All test modes were tested, but we only recorded the worst case in this report.	

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Digital Two Way Radio

Test Model : RT3S

Operation Frequency : TX:144-148MHz,420-450MHz
Range RX:136-174MHz,400-480MHz

Ratings : DC 7.4V form battery

2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Huawei	Adapter	HW-200500C 02	--	FCC

Note: The adapter is supplied by lab and only use tested.

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
--	--	--

2.4. Description of Test Facility

CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

2.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. TEST RESULTS

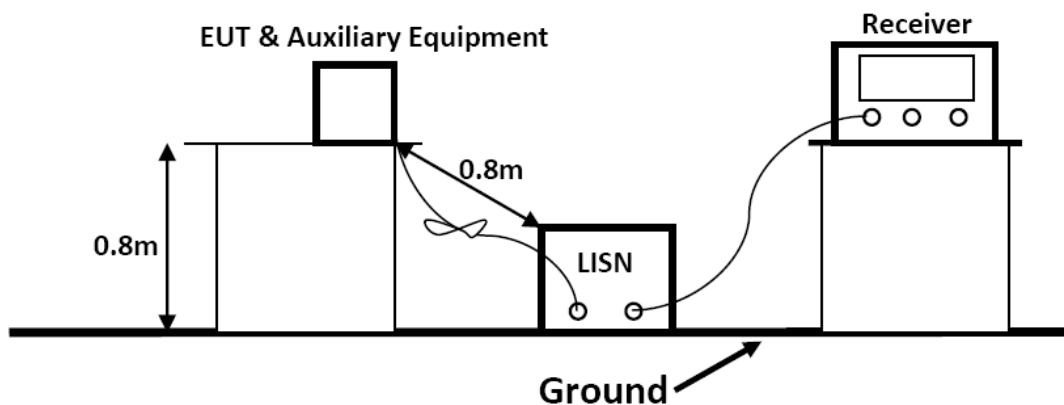
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment No.	Equipment	Model No.	Manufacturer	Due date
1	GLCS-E-002	Shield Room#1	433	Maorui	N/A
2	GLCS-E-158	EMI Test Receiver	ESR7	ROHDE & SCHWARZ	2027-04-06
3	GLCS-E-017	EMI Test Software	EZ-EMC	Farad	N/A
4	GLCS-E-011	Artificial Mains Network	ESH2-Z5	ROHDE & SCHWARZ	2027-04-06
5	GLCS-E-080	10dB Attenuator	VTSD 9561-F	Schwarzbeck	2027-04-06

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB μ V)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Mode 1 and measure it.

3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

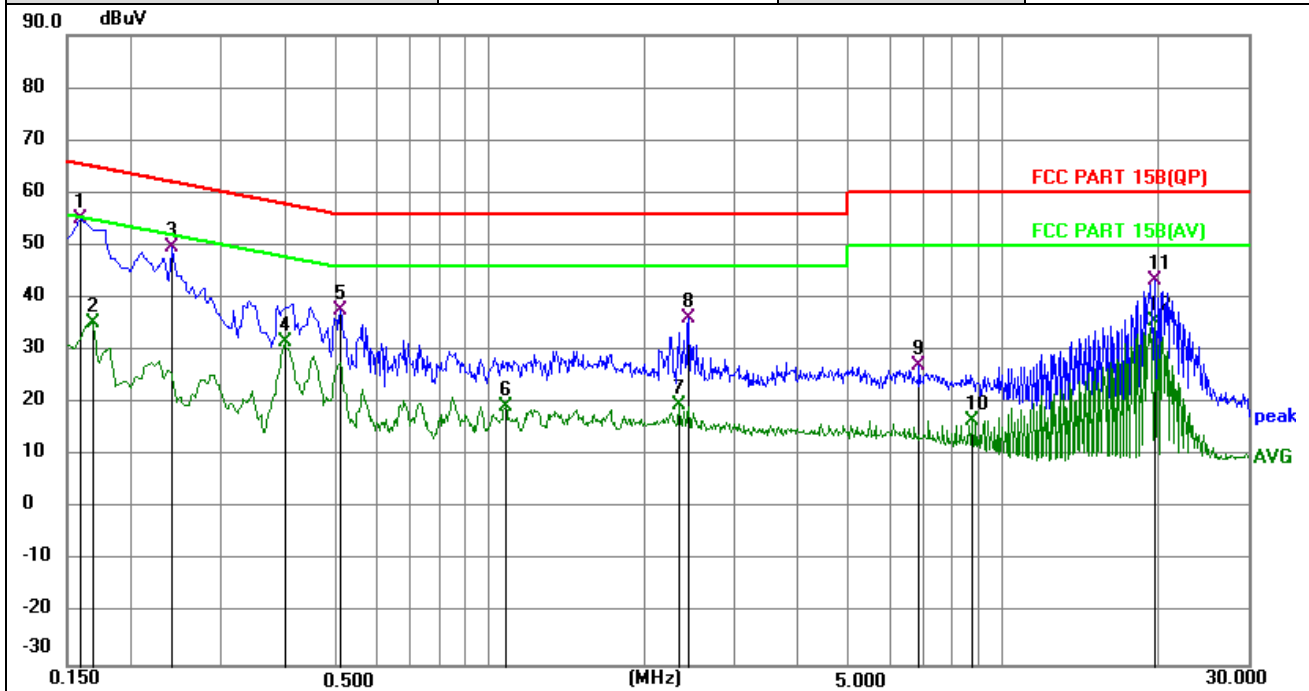
The frequency range from 150kHz to 30MHz is investigated

3.1.7. Test Results

PASS.

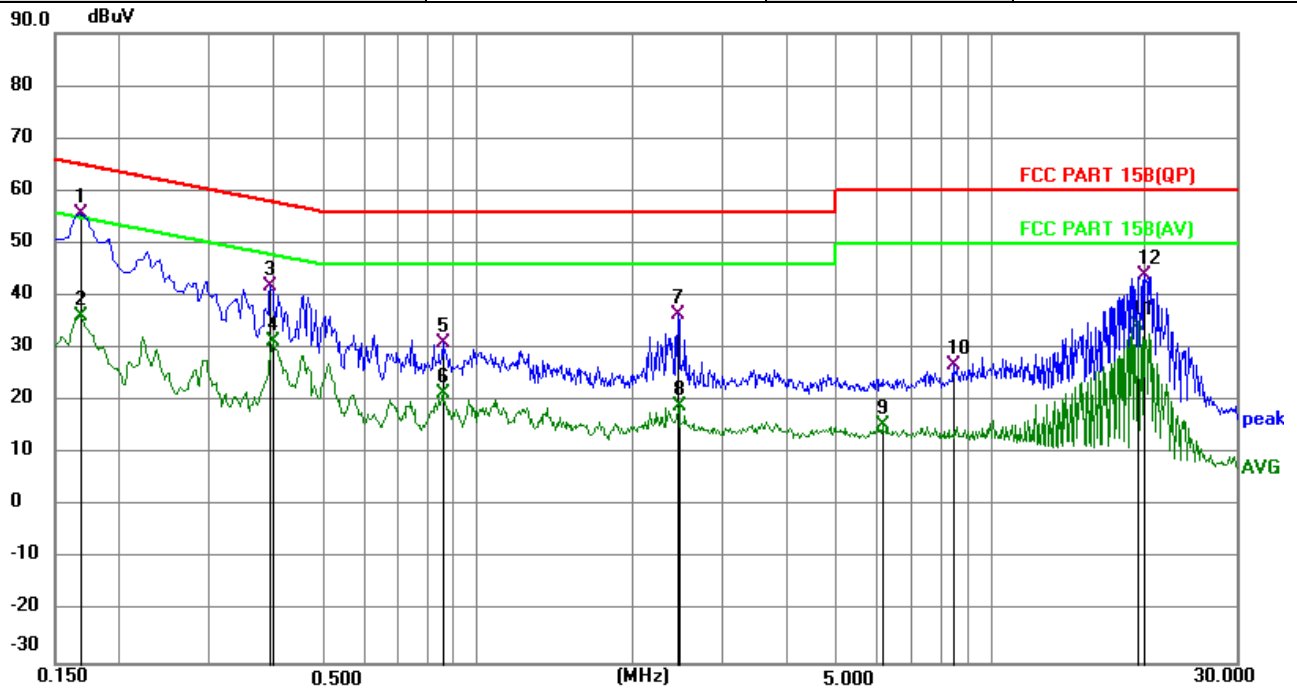
The test result please refer to the next page.

Test Model	RT3S	Test Mode	Mode 1
Environmental Conditions	21.1℃, 52.2% RH	Test Engineer	Zhang hai
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1590	44.96	10.16	55.12	65.52	-10.40	QP	
2		0.1680	25.05	10.14	35.19	55.06	-19.87	AVG	
3		0.2400	39.46	10.11	49.57	62.10	-12.53	QP	
4		0.3975	21.50	10.07	31.57	47.91	-16.34	AVG	
5		0.5100	27.63	10.07	37.70	56.00	-18.30	QP	
6		1.0725	8.99	10.22	19.21	46.00	-26.79	AVG	
7		2.3370	9.50	10.24	19.74	46.00	-26.26	AVG	
8		2.4405	25.94	10.23	36.17	56.00	-19.83	QP	
9		6.8730	16.78	10.28	27.06	60.00	-32.94	QP	
10		8.7000	6.41	10.34	16.75	50.00	-33.25	AVG	
11		19.8330	32.92	10.40	43.32	60.00	-16.68	QP	
12		19.8330	25.24	10.40	35.64	50.00	-14.36	AVG	

Test Model	RT3S	Test Mode	Mode 1
Environmental Conditions	21.1℃, 52.2% RH	Test Engineer	Zhang hai
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
1	*	0.1680	45.69	10.08	55.77	65.06	-9.29	QP	
2		0.1680	26.16	10.08	36.24	55.06	-18.82	AVG	
3		0.3930	31.88	10.05	41.93	58.00	-16.07	QP	
4		0.3975	21.36	10.05	31.41	47.91	-16.50	AVG	
5		0.8565	21.09	10.10	31.19	56.00	-24.81	QP	
6		0.8565	11.27	10.10	21.37	46.00	-24.63	AVG	
7		2.4495	26.25	10.25	36.50	56.00	-19.50	QP	
8		2.4674	8.79	10.25	19.04	46.00	-26.96	AVG	
9		6.1260	5.08	10.23	15.31	50.00	-34.69	AVG	
10		8.4164	16.52	10.25	26.77	60.00	-33.23	QP	
11		19.4010	23.93	10.36	34.29	50.00	-15.71	AVG	
12		19.8600	33.45	10.36	43.81	60.00	-16.19	QP	

Note: Margin= Reading level + Correct factor – Limit
Correct Factor= Liss Factor+Cable Factor

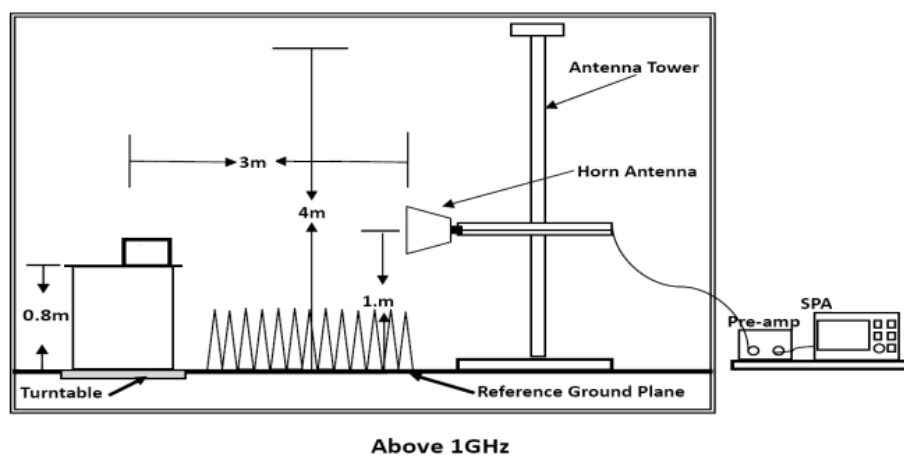
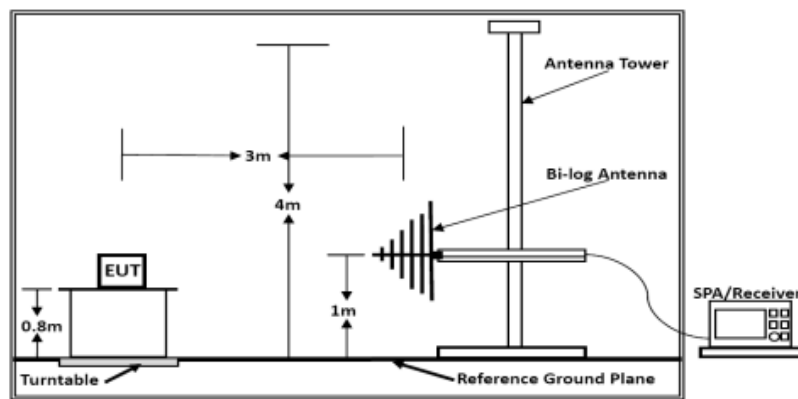
3.2. Radiated emission Measurement

3.2.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment No.	Equipment	Model No.	Manufacturer	Due date
1	GLCS-E-001	Semi Anechoic Chamber#1	966	Maorui	2027-04-20
2	GLCS-E-047	Hygrothermograph #5	3in1	Baro	2027-04-06
3	GLCS-E-017	EMI Test Software	EZ-EMC(Ver.FA-03A 2 RE+)	Farad	N/A
4	GLCS-E-192	EMI Test Receiver	ESR7	ROHDE & SCHWARZ	2027-04-06
5	GLCS-E-019	Biconical Antenna	VHBB 9124	ROHDE & SCHWARZ	2026-07-18
6	GLCS-E-352	By-log Antenna	VULB 9163	ROHDE & SCHWARZ	2028-08-15
7	GLCS-E-286	Broadband Preamplifier	LNPA 30MO6G-40(18G Hz)	Cesheng Technology	2027-04-06

3.2.2. Block Diagram of Test Setup



3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2. Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

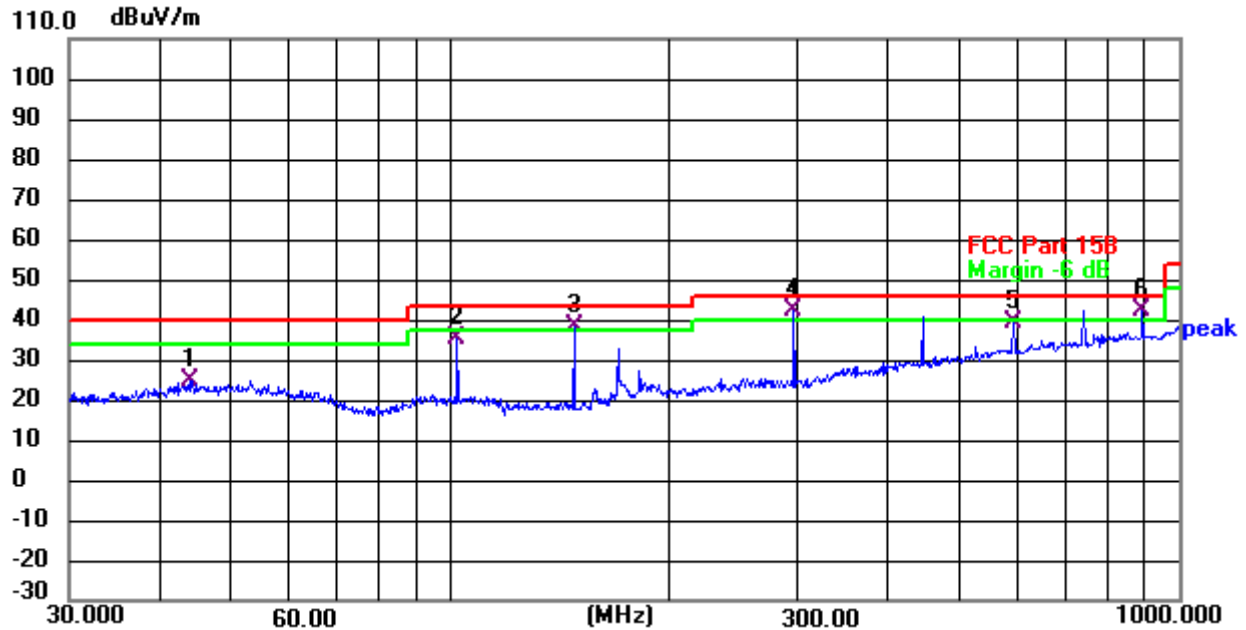
The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.2.8. Radiated Emission Noise Measurement Result

PASS.

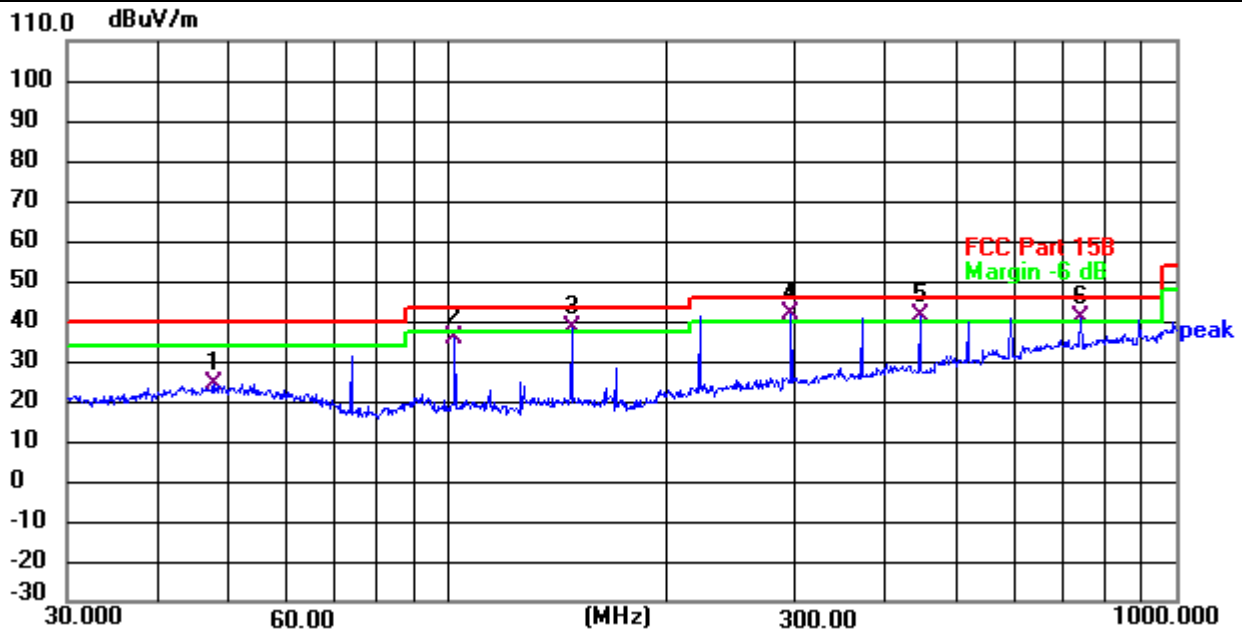
The scanning waveforms please refer to the next page.

Test Model	RT3S	Test Mode	Mode 3
Environmental Conditions	25.1 °C, 50.5% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		44.1200	9.72	14.82	24.54	40.00	-15.46	QP	
2		102.3596	22.27	13.19	35.46	43.50	-8.04	QP	
3	!	147.9214	28.47	9.58	38.05	43.50	-5.45	QP	
4	!	296.1836	26.18	15.86	42.04	46.00	-3.96	QP	
5		593.0496	16.62	22.60	39.22	46.00	-6.78	QP	
6	*	890.7277	15.83	26.57	42.40	46.00	-3.60	QP	

Test Model	RT3S	Test Mode	Mode 1
Environmental Conditions	25.1°C, 50.5% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz

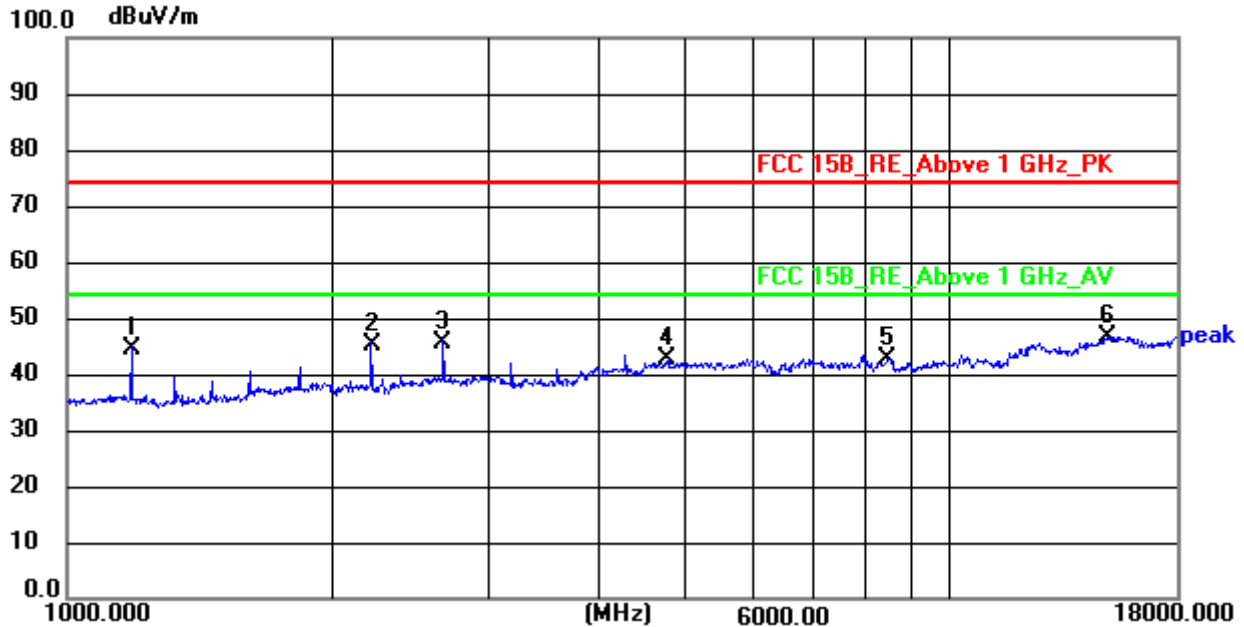


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		47.6584	9.32	14.77	24.09	40.00	-15.91	QP	
2		102.3596	22.81	13.19	36.00	43.50	-7.50	QP	
3	!	147.9214	28.47	9.58	38.05	43.50	-5.45	QP	
4	*	296.1836	26.02	15.86	41.88	46.00	-4.12	QP	
5	!	444.8514	21.80	19.26	41.06	46.00	-4.94	QP	
6	!	739.6603	16.12	24.69	40.81	46.00	-5.19	QP	

Note: Margin= Reading Level+Correct Factor – Limit

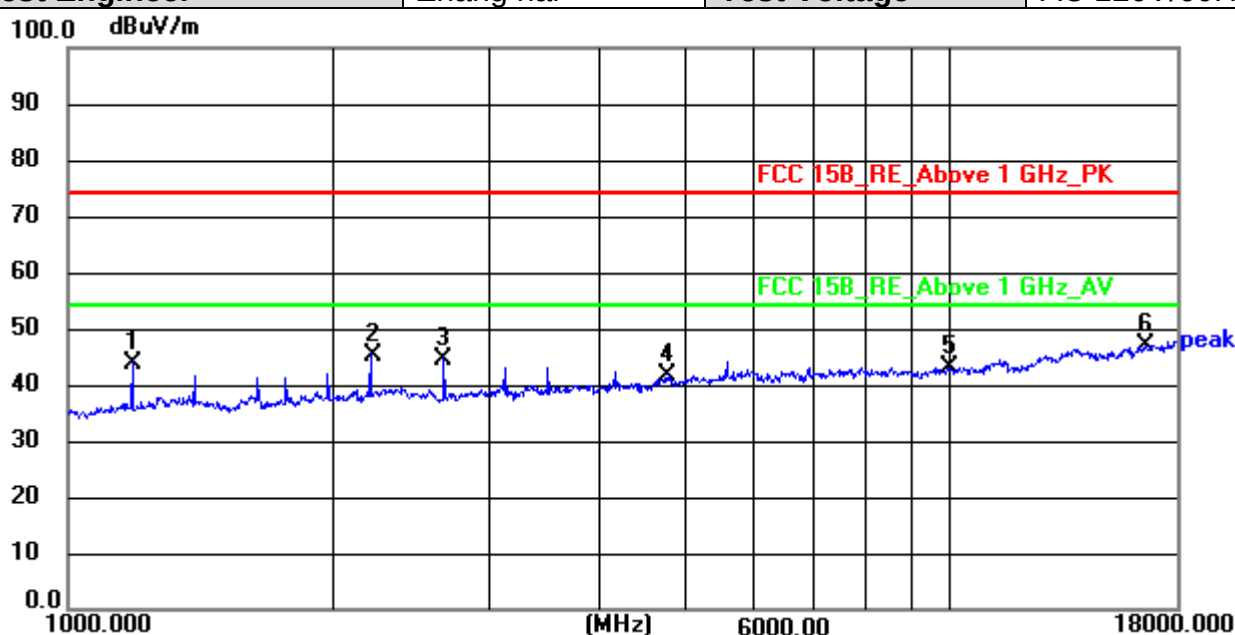
Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor

Test Model	RT3S	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	25.1℃, 50.5% RH	Detector Function	Peak + AV
Pol	Horizontal	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1183.440	61.30	-16.99	44.31	74.00	-29.69	peak	
2		2219.805	60.08	-14.77	45.31	74.00	-28.69	peak	
3		2664.702	58.42	-13.06	45.36	74.00	-28.64	peak	
4		4790.244	49.75	-7.11	42.64	74.00	-31.36	peak	
5		8514.456	41.83	1.02	42.85	74.00	-31.15	peak	
6	*	15046.851	41.05	5.61	46.66	74.00	-27.34	peak	

Test Model	RT3S	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	25.1℃, 50.5% RH	Detector Function	Peak + AV
Pol	Vertical	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz

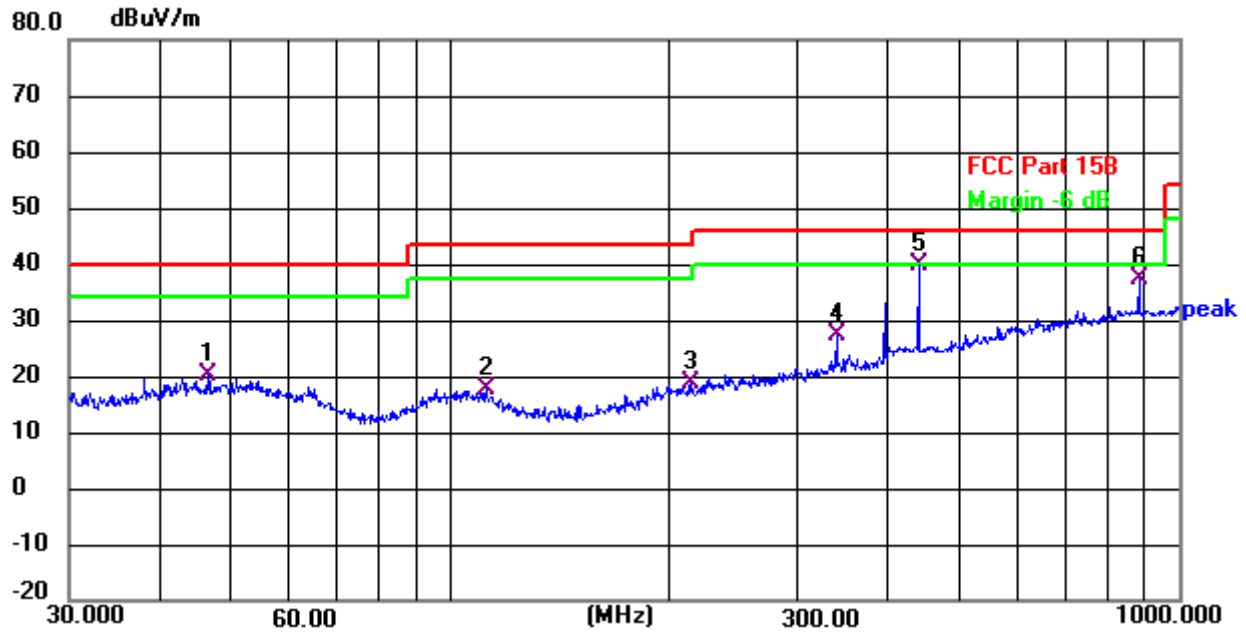


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1183.440	60.77	-16.99	43.78	74.00	-30.22	peak	
2		2219.805	59.80	-14.77	45.03	74.00	-28.97	peak	
3		2664.702	57.43	-13.06	44.37	74.00	-29.63	peak	
4		4790.244	48.75	-7.11	41.64	74.00	-32.36	peak	
5		9952.717	39.20	3.99	43.19	74.00	-30.81	peak	
6	*	16600.642	41.19	5.76	46.95	74.00	-27.05	peak	

Note:

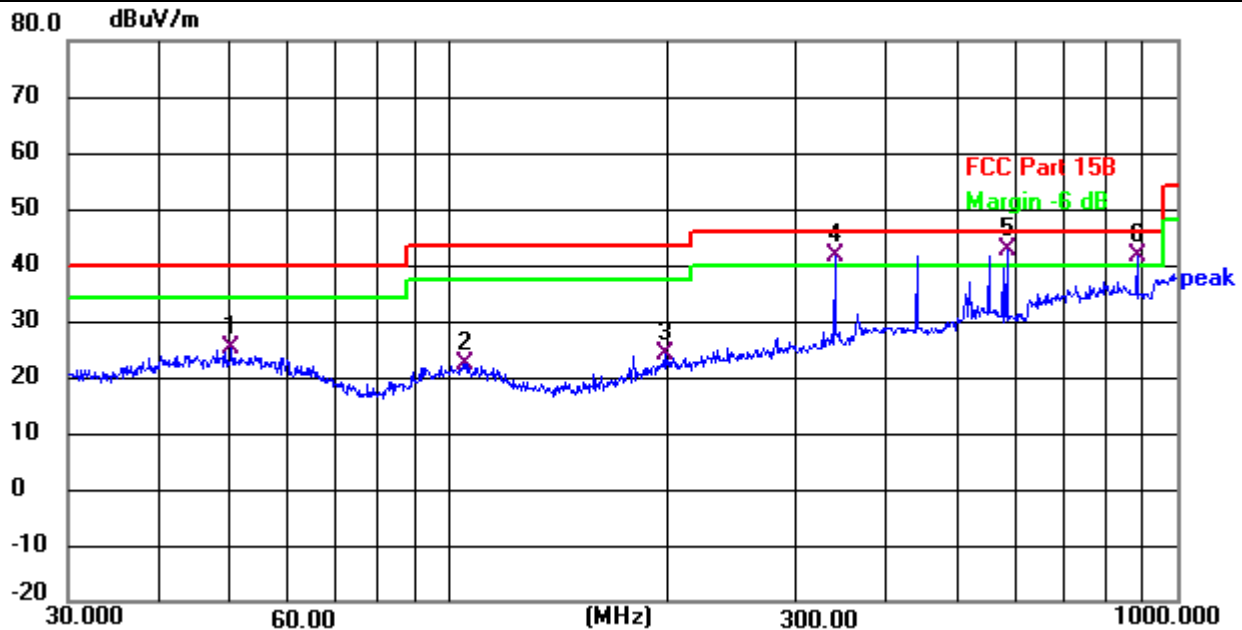
1. Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
2. Measurements above show only up to 6 maximum emissions noted.
3. Data of measurement within this frequency range shown “ -- ” 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.
4. Factor = Antenna Factor + Cable Loss + Amplifier Factor
Emission Level = Reading level + Factor
Margin = Emission Level - Limit

Test Model	RT3S	Test Mode	Mode 4
Environmental Conditions	25.1℃, 50.5% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		46.5030	5.35	14.81	20.16	40.00	-19.84	QP	
2		112.1304	5.19	12.62	17.81	43.50	-25.69	QP	
3		214.5142	5.38	13.25	18.63	43.50	-24.87	QP	
4		339.5887	9.77	17.42	27.19	46.00	-18.81	QP	
5	*	440.1962	20.57	19.24	39.81	46.00	-6.19	QP	
6		881.4067	10.93	26.45	37.38	46.00	-8.62	QP	

Test Model	RT3S	Test Mode	Mode 4
Environmental Conditions	25.1°C, 50.5% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz

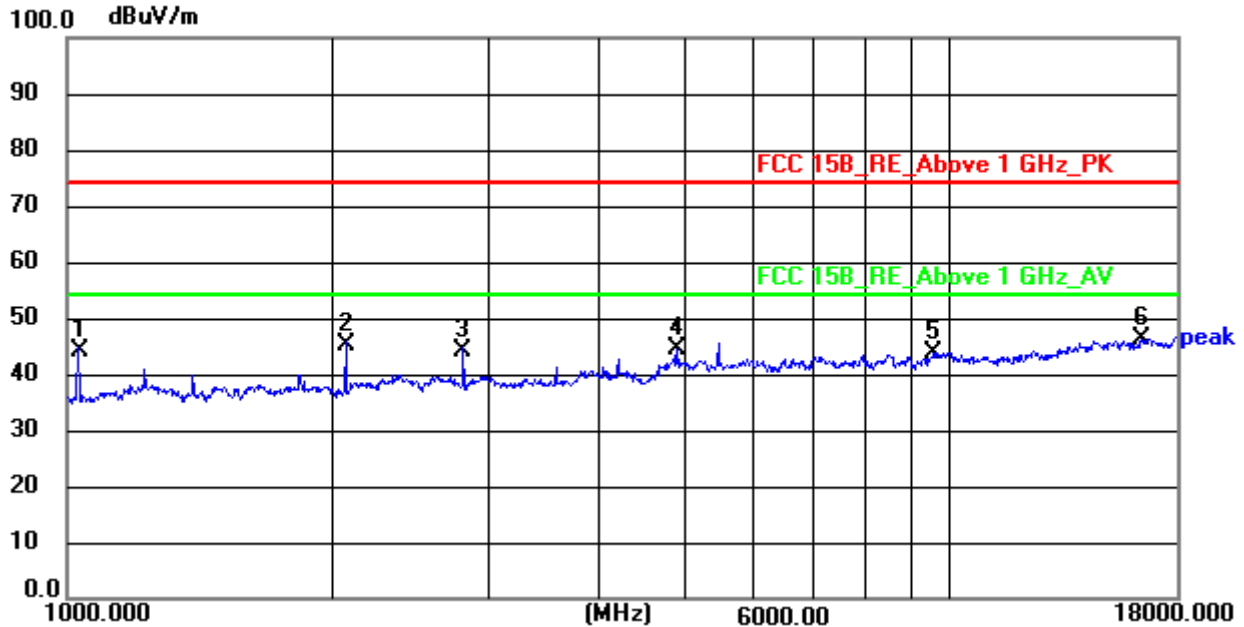


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		50.4090	10.27	14.82	25.09	40.00	-14.91	QP	
2		105.2717	8.84	13.46	22.30	43.50	-21.20	QP	
3		197.8928	10.73	13.23	23.96	43.50	-19.54	QP	
4	!	339.5887	24.18	17.42	41.60	46.00	-4.40	QP	
5	*	584.7894	20.43	22.38	42.81	46.00	-3.19	QP	
6	!	881.4067	15.04	26.45	41.49	46.00	-4.51	QP	

Note: Margin= Reading Level+Correct Factor – Limit

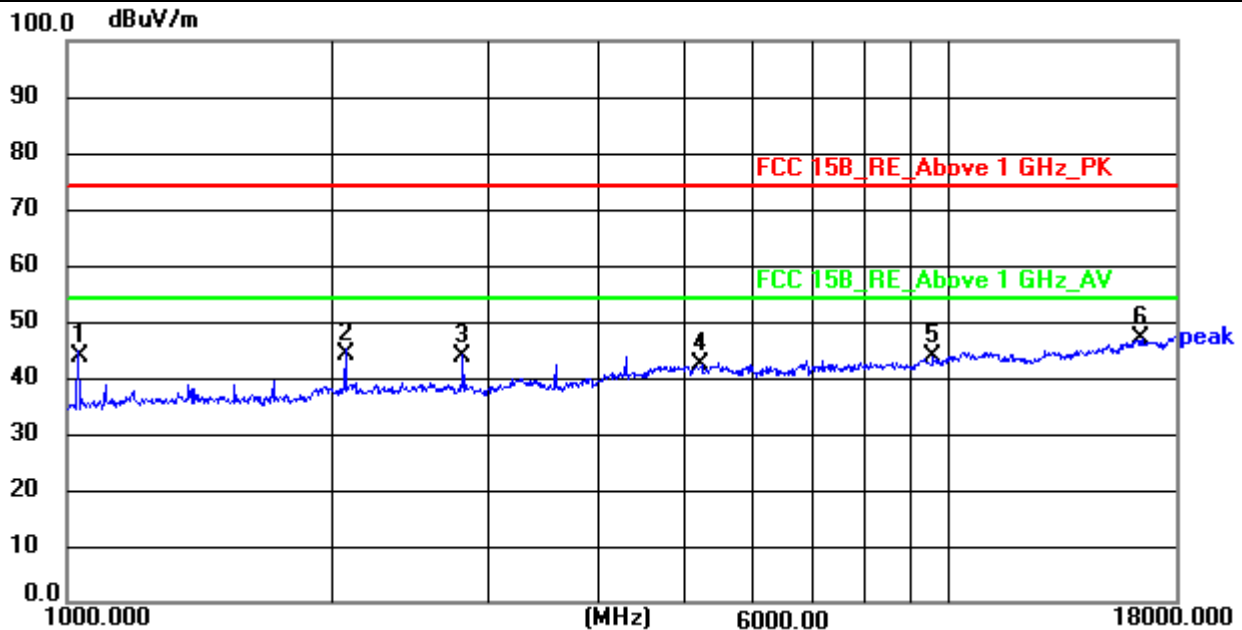
Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor

Test Model	RT3S	Test Mode	Mode 4(Above 1GHz)
Environmental Conditions	25.1℃, 50.5% RH	Detector Function	Peak + AV
Pol	Horizontal	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1034.630	60.81	-16.80	44.01	74.00	-29.99	peak	
2		2069.805	60.66	-15.53	45.13	74.00	-28.87	peak	
3		2811.857	56.72	-12.71	44.01	74.00	-29.99	peak	
4		4902.300	51.40	-6.76	44.64	74.00	-29.36	peak	
5		9558.017	40.83	2.87	43.70	74.00	-30.30	peak	
6	*	16457.318	40.73	5.55	46.28	74.00	-27.72	peak	

Test Model	RT3S	Test Mode	Mode 4 (Above 1GHz)
Environmental Conditions	25.1℃, 50.5% RH	Detector Function	Peak + AV
Pol	Vertical	Distance	3m
Test Engineer	Zhang hai	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		1034.630	60.64	-16.80	43.84	74.00	-30.16	peak	
2		2069.805	59.71	-15.53	44.18	74.00	-29.82	peak	
3		2811.857	56.62	-12.71	43.91	74.00	-30.09	peak	
4		5239.274	48.34	-6.00	42.34	74.00	-31.66	peak	
5		9558.017	40.83	2.87	43.70	74.00	-30.30	peak	
6	*	16504.954	41.36	5.62	46.98	74.00	-27.02	peak	

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- 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.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor
Emission Level = Reading level + Factor
Margin = Emission Level - Limit

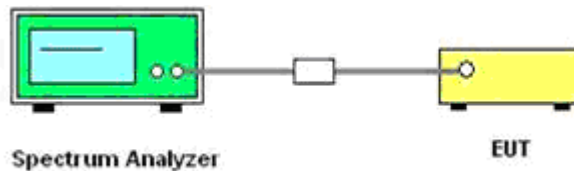
3.3. ANTENNA POWER CONDUCTION LIMITS FOR RECEIVERS

3.3.1 Applicable Standard

FCC§15.111.

In addition to the radiated emission limits, receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of § 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

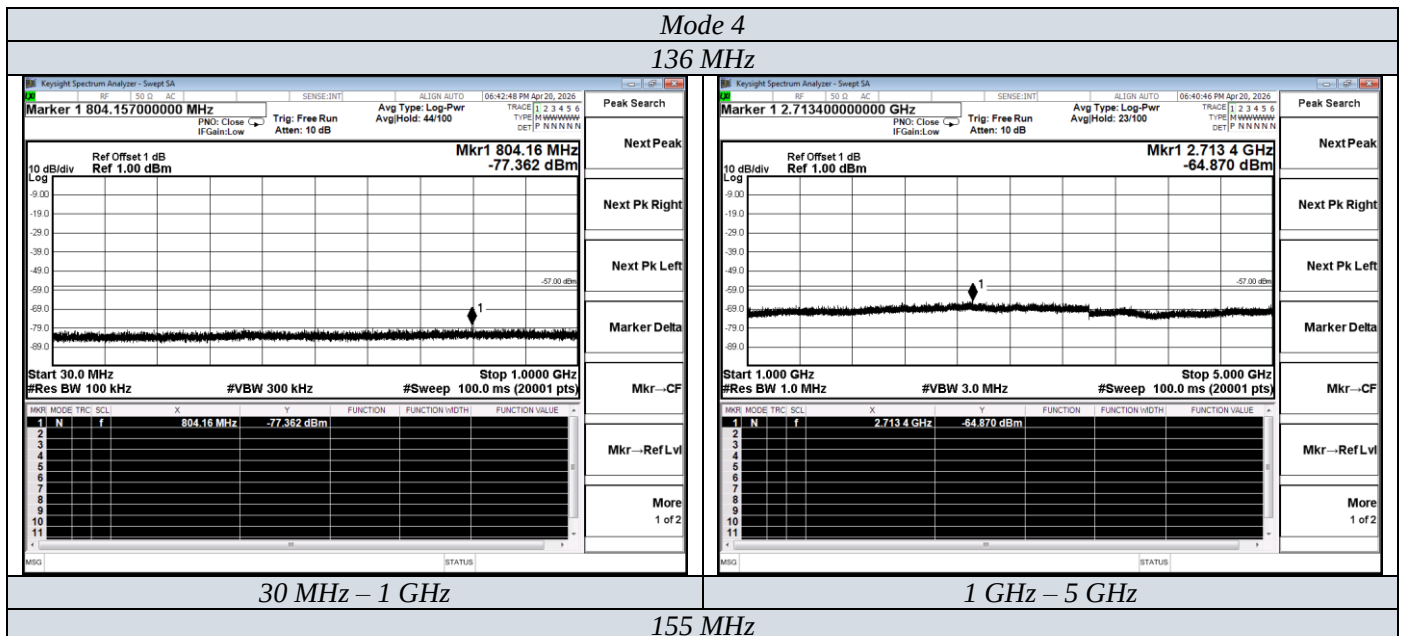
3.3.2 Test Setup Layout

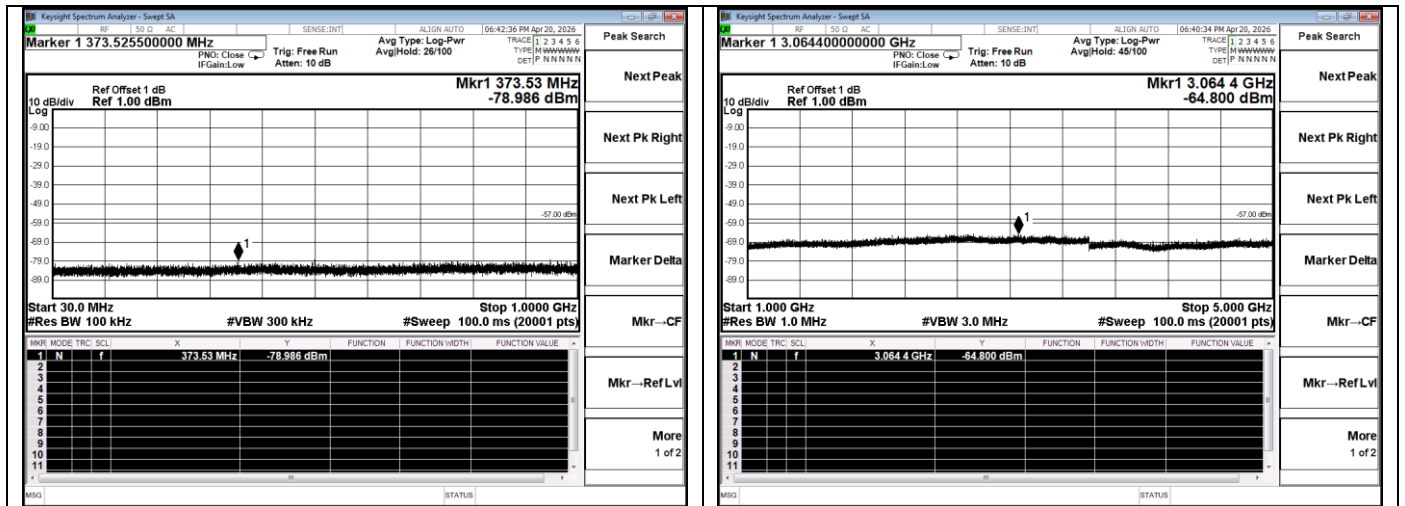


3.3.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.4 Test result

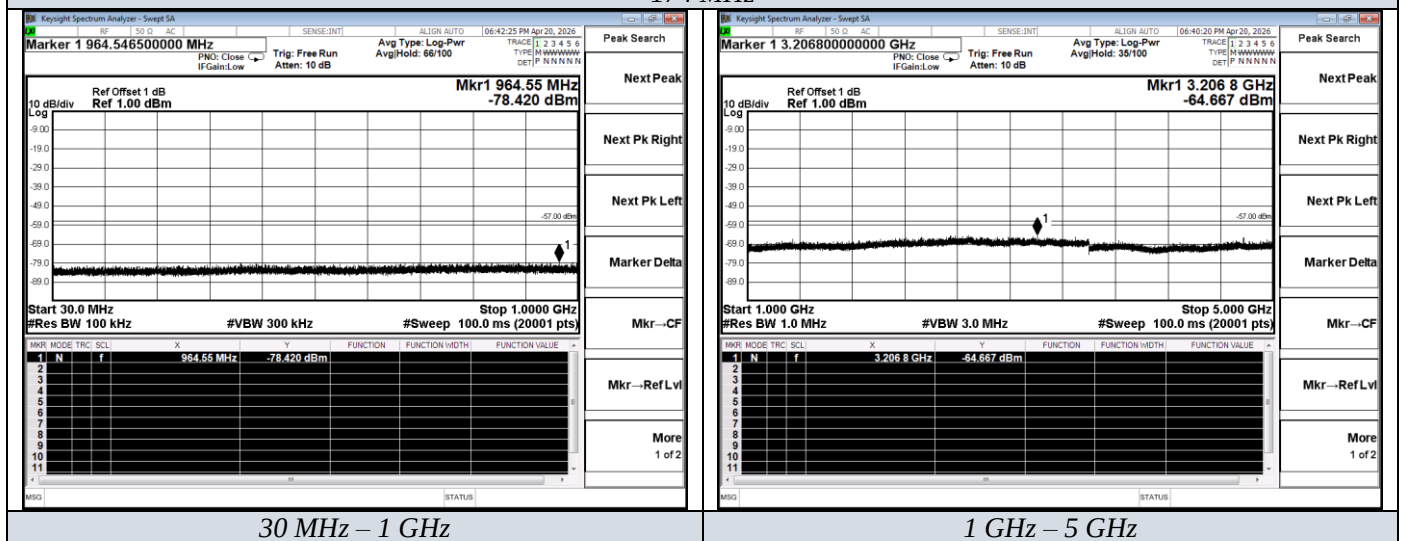




30 MHz – 1 GHz

1 GHz – 5 GHz

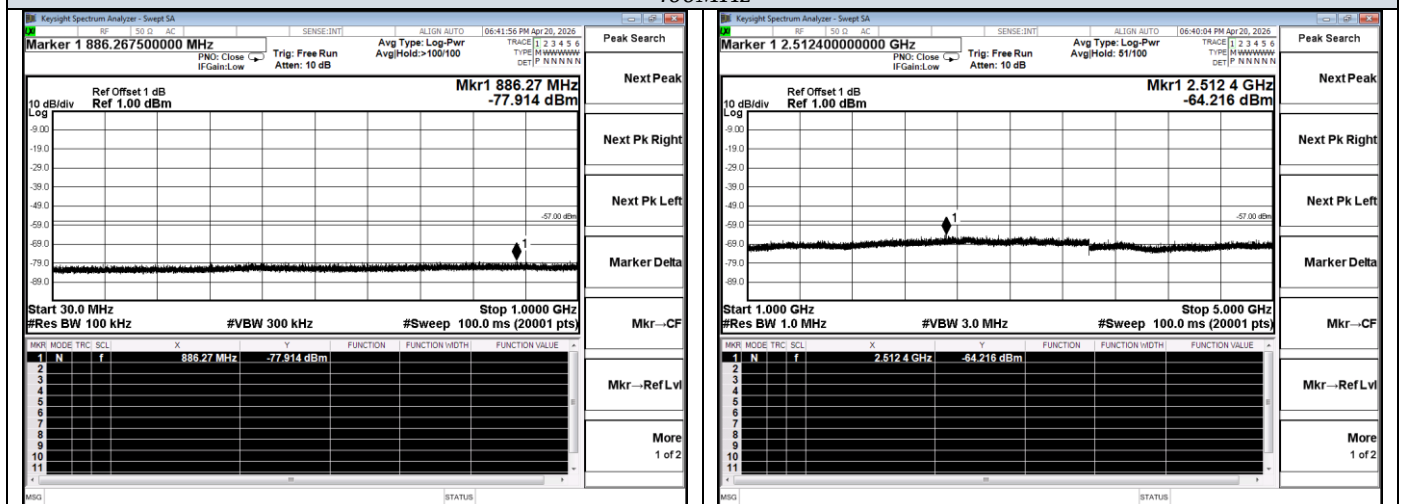
174 MHz



30 MHz – 1 GHz

1 GHz – 5 GHz

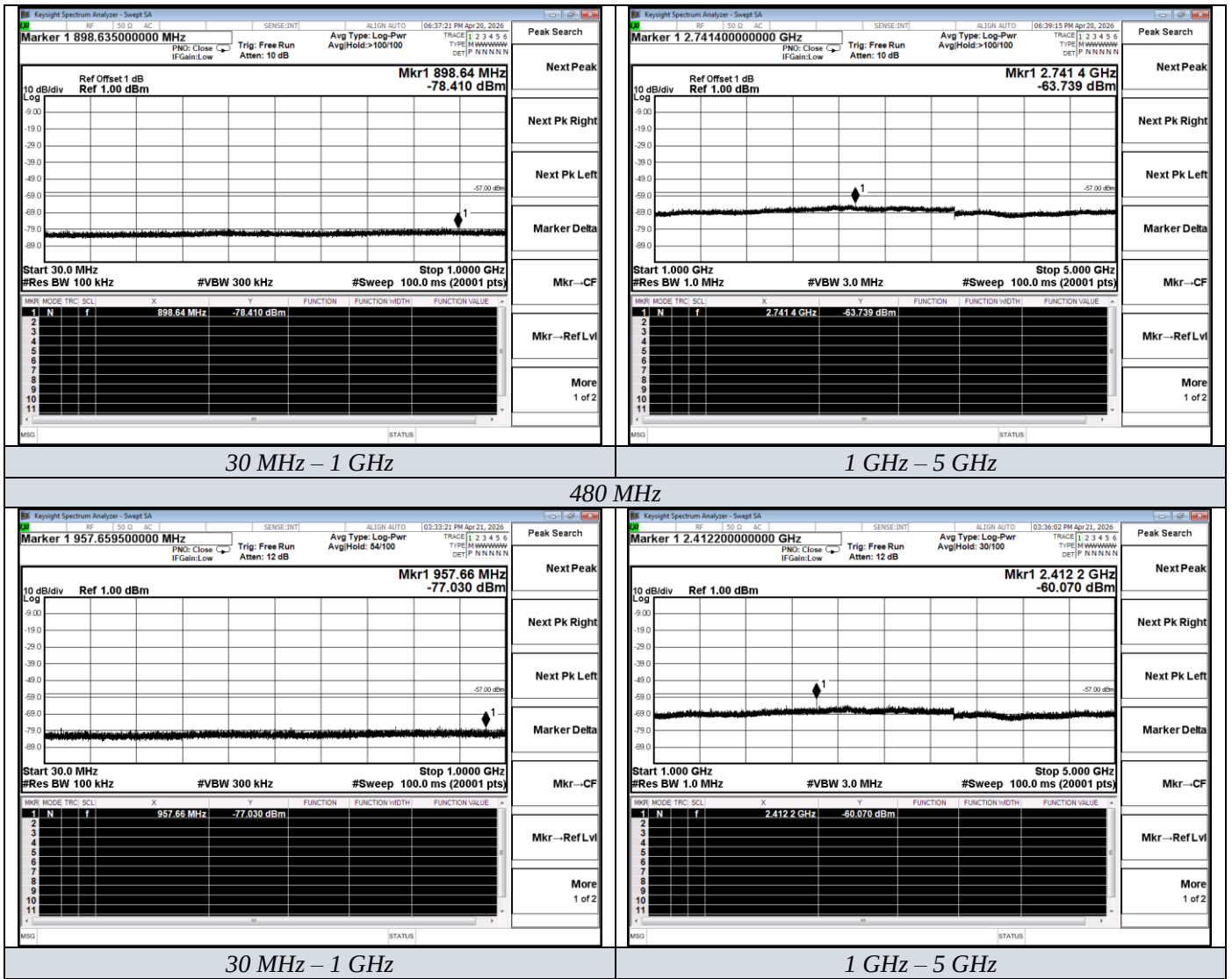
400MHz



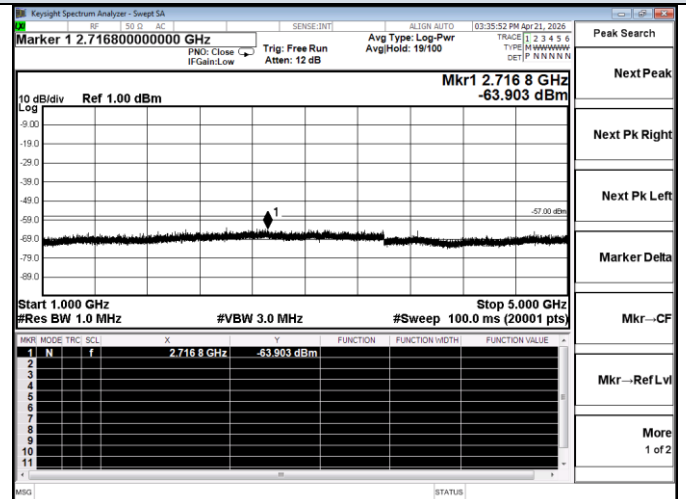
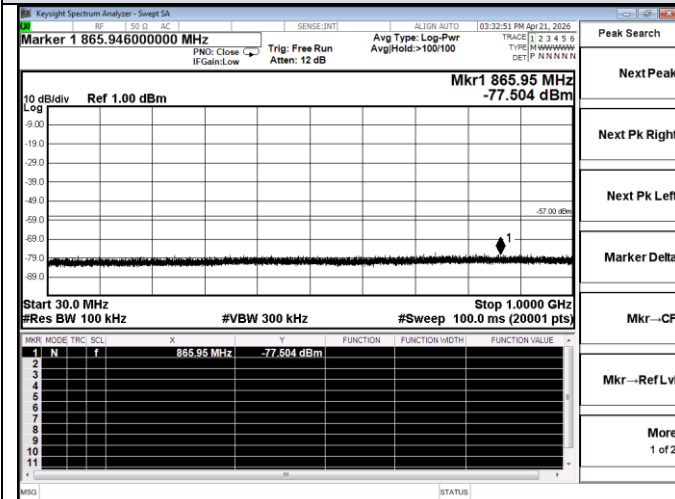
30 MHz – 1 GHz

1 GHz – 5 GHz

440MHz



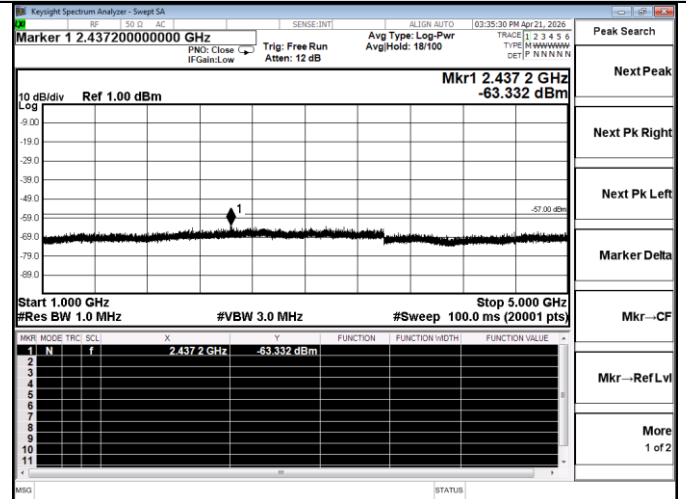
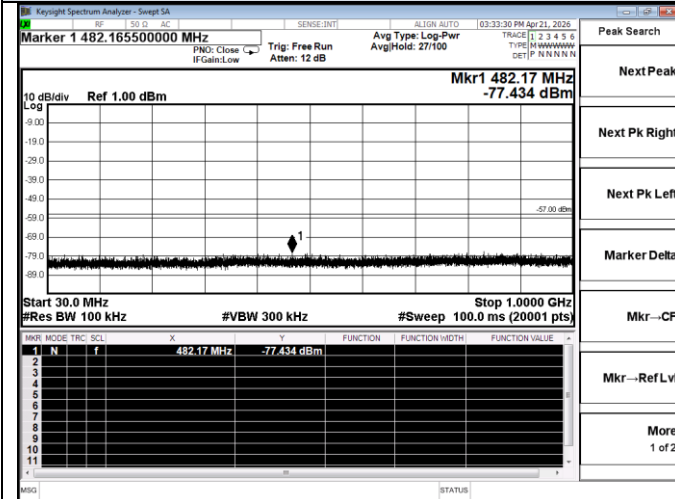
136-174 MHz



30 MHz – 1 GHz

1 GHz – 5 GHz

400-480MHz



30 MHz – 1 GHz

1 GHz – 5 GHz

3.4 SCANNING RECEIVERS AND FREQUENCY CONVERTERS USED WITH SCANNING RECEIVERS

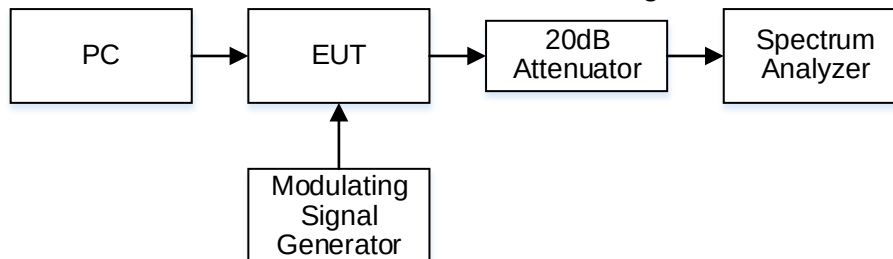
3.4.1 Applicable Standard

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.

3.4.2 Test Setup Layout

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 it's rated value with the distortion less than 10%;
4. Adjust the 8921A output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the 8921A 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 it's 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.

3.4.3 Test result

Scanning Frequency Range (MHz)	Test Frequency (MHz)	Measurement Result (Worst Case)(dB)	Limit (dB)
136-174 400-480	824, 836, 849 ; 869,881.5, 894	41	> 38

4. PHOTOGRAPH



Photo of Power Line Conducted Measurement

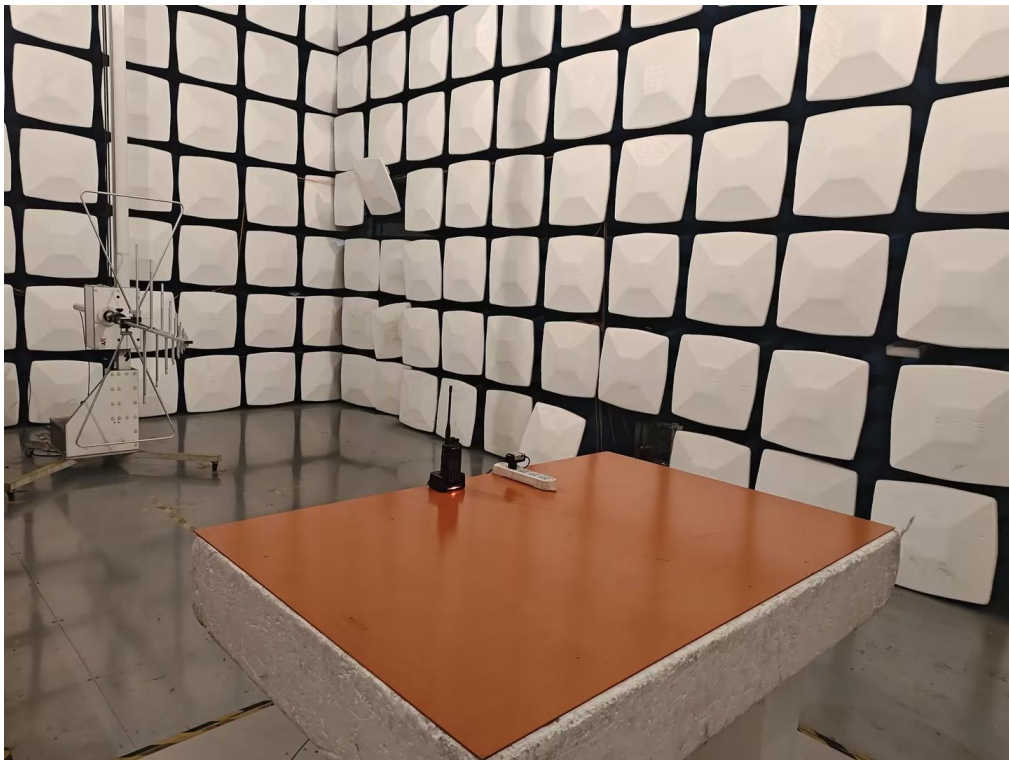


Photo of Radiated Measurement



Photo of Radiated Measurement (Above 1GHz)

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Please refer to separated files for External Photos and Internal Photos of the EUT.

-----THE END OF TEST REPORT-----