



TEST REPORT

No. I19D00117-SRD02

For

Client: Micronet

Production: A9 PCBA module

Model Name: A9

Brand Name: TREQ

FCC ID: U80-A9

IC ID: 12186A-A9

Hardware Version: C801_V1.00_PCB

Software Version: SC_10.2.0.0

Issued date: 2019-09-12

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NOTE

- 1. The test results in this test report relate only to the devices specified in this report.
- 2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
- For the test results, the uncertainty of measurement is not taken into account when
 judging the compliance with specification, and the results of measurement or the average
 value of measurement results are taken as the criterion of the compliance with
 specification directly.

Test Laboratory:

East China Institute of Telecommunications

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Revision Version

Report Number	Revision	Date	Memo
I19D00117-SRD02	00	2019-09-12	Initial creation of test report



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1. Test Laboratory

1.1. Testing Location

Company Name	East China Institute of Telecommunications
Address	7-8/F., Area G, No.668, Beijing East Road, Shanghai, China
Postal Code	200001
Telephone	+86 21 63843300
Fax	+86 21 63843301
FCC registration No	CN1177

1.2. Testing Environment

Normal Temperature	15℃-35℃
Relative Humidity	20%-75%

1.3. Project Data

Project Leader	Zhou Yan
Testing Start Date	2019-07-23
Testing End Date	2019-07-29

1.4. Signature

Wang Liang

(Prepared this test report)

Fan Songyan

(Reviewed this test report)

Zheng Zhongbin

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name	Micronet
Address	1865 West 2100 South, Suite 2Salt Lake City, Utah 84119 United States
Telephone	+1-801-990-8700
Postcode	84119

2.2. Manufacturer Information

Company Name	Micronet
Address	1865 West 2100 South, Suite 2Salt Lake City, Utah 84119 United States
Telephone	+1-801-990-8700
Postcode	84119



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Production	A9 PCBA module
Model name	A9
BLE Frequency	2402MHz-2480MHz
BLE Channel	Channel0-Channel39
BLE Modulation	GFSK;
Additional Communication	BT/BLE/2.4G WLAN 802.11 b/g/n20/n40/5G WLAN 802.11
Function	a/n20/n40/ac20/ac40
Extreme Temperature	-20/+70°C
Nominal Voltage	3.8V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.7V
Maximum of Antenna Gain	Bluetooth: 6dBi

Note:

- a. Photographs of EUT are shown in ANNEX A of this test report.
- b. The value of the antenna gain is provided by the customer. For specific antenna information, please check the antenna specifications of the customer.

3.2.Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N19	/	C801_V1.00_PCB	SC_10.2.0.0	2019-07-22
N20	/	C801_V1.00_PCB	SC_10.2.0.0	2019-07-22

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3.Internal Identification of AE used during the test

AE ID*	Description	Туре	Manufacturer
AE1	RF cable		AE1

^{*}AE ID: is used to identify the test sample in the lab internally.

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4. Reference Documents

4.1. Documents supplied by applicant

All technical documents are supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version	
	FCC CFR 47, Part 15, Subpart C:		
	15.205 Restricted bands of operation;		
FCC Part15	15.209 Radiated emission limits, general requirements;	2018-10-01	
	15.247 Operation within the bands 902-928MHz,		
	2400-2483.5MHz, and 5725-5850MHz.		
ANSI C63.10	American National Standard of Procedures for Compliance	2013	
ANSI C63.10	Testing of Unlicensed Wireless Devices		
Guidance for Performing Compliance Measurements on		V0E*02	
KDB558074 Digital Transmission Systems (DTS) Operating Under §15.247		v05r02	
	Digital Transmission Systems (DTSs), Frequency Hopping		
RSS-247	Systems (FHSs) and Licence-Exempt Local Area Network	2017	
	(LE-LAN) Devices		
RSS-Gen	General Requirements for Compliance of Radio Apparatus	2018	

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5. Test Results

5.1. Summary of Test Results

Maria	Sub-clause of	Sub-claus	Mar Bar
Measurement Items	Part15C	e of IC	Verdict
Maximum Book Output Power	15.247(b)	RSS-247	Р
Maximum Peak Output Power	15.247(0)	5.4	P
Peak Power Spectral Density	15.247(e)	RSS-247	Р
reak rower spectral bensity	13.247 (e)	5.2	Г
6dB Occupied Bandwidth	15.247(a)	RSS-247	Р
odb Occupied Baridwidth	15.247 (a)	5.2	Г
Band Edges Compliance	15.247(d)	RSS-247	Р
Band Luges Compliance	13.247 (u)	5.5	Г
Transmitter Spurious	15.247	RSS-247	Р
Emission-Conducted	15.247	5.5	Г
Transmitter Spurious	15.247	RSS-247	Р
Emission-Radiated	15.247	5.5	F
AC Powerline Conducted Emission	15 107 15 207	RSS-247	Р
AC FOWEITHE CONDUCTED ETHISSION	15.107,15.207	Gen 3.2	Г

Note: please refer to Annex A in this test report for the detailed test results.

The following terms are used in the above table.

Р	Pass, the EUT complies with the essential requirements in the standard.
NP	Not Perform, the test was not performed by ECIT.
NA	Not Applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage,



and also under norm humidity, the specific conditions as following:

Temperature	Tnom	25℃
Voltage	Vnom	3.8V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

5.2. Statements

The A9 is an initial product for testing.

ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

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6. Test Equipments Utilized

6.1. Conducted Test System

Item	Instrument Name	Туре	SN Manufacturer		Cal. Date	Cal. interval
1	Vector Signal Analyzer	FSQ26	101091	R&S	2019-05-10	1 year
2	DC Power Supply	ZUP60-14	LOC-220Z0 06-0007	TDL-Lambda	2019-05-10	1 year

6.2. Radiated Emission Test System

Item	Instrument Name	Туре	SN	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2019-05-10	1 year
2	EMI Test Receiver	ESU40	100307	R&S	2019-05-10	1 year
3	TRILOG Broadband Antenna	VULB9163	VULB9163- 515	Schwarzbeck	2017-02-25	3 years
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2017-01-11	3 years
5	2-Line V-Network	ENV216	101380	R&S	2019-05-10	1 year

Anechoic chamber

Fully anechoic chamber by ETS.

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7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents . The detailed measurement uncertainty is defined in ECIT documents.

Measurement Items	Range	Confide nce Level	Calculated Uncertainty
Peak Output Power-Conducted	2402MHz-2480MHz	95%	\pm 0.544dB
Peak Power Spectral Density	2402MHz-2480MHz	95%	±0.544dB
6dB Bandwidth	2402MHz-2480MHz	95%	\pm 62.04Hz
Frequency Band Edges-Conducted	2390MHz-2488.5MHz	95%	±0.544dB
Conducted Emission	30MHz-2GHz	95%	\pm 0.90dB
Conducted Emission	2GHz-3.6GHz	95%	\pm 0.88dB
Conducted Emission	3.6GHz-8GHz	95%	±0.96dB
Conducted Emission	8GHz-20GHz	95%	±0.94dB
Conducted Emission	20GHz-22GHz	95%	±0.88dB
Conducted Emission	22GHz-26GHz	95%	±0.86dB
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	±5.66dB
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	\pm 4.98dB
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	±5.06dB
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	±5.20dB
AC Power line Conducted Emission	0.15MHz-30MHz	95%	± 3.66 db

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8. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. = 20 %, Max. = 75 %		
Shielding effectiveness	> 100 dB		
Ground system resistance	< 0.5 Ω		

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. =30 %, Max. = 60 %	
Shielding effectiveness	> 100 dB	
Electrical insulation	> 10 kΩ	
Ground system resistance	< 0.5 Ω	

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz



ANNEX A. Detailed Test Results

ANNEX A.1. Peak Output Power-Conducted

A.1.1 Measurement Limit

Standard	Limit (dBm)
FCC Part 15.247(b)(1)	< 30

A.1.2 Test Condition:

DTS procedure	RBW	VBW	Span	Sweeptime
BT-LE	3MHz	10MHz	9MHz	Auto

A.1.3 Test procedure

The measurement is according to ANSI C63.10 clause 11.9.1

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq [3 \times RBW].
- c) Set span \geq [3 \times RBW].
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Measurement Results:

For GFSK

Channel	Ch0 2402 MHz	Ch19 2440 MHz	CH39 2480 MHz	Conclusion
Peak Conducted	2.24	2.60	1.93	
Output Power (dBm)	Fig.1	Fig.2	Fig.3	Р
EIRP(dBm)	8.24	8.60	7.93	

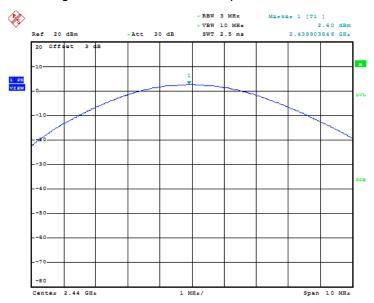
Conclusion: PASS
Test graphs an below





Date: 29.JUL.2019 12:20:58

Fig.1 Peak Conducted Output Power CH0, DH1



Date: 29.JUL.2019 12:21:48

Fig.2 Peak Conducted Output Power CH19, DH1





Date: 29.JUL.2019 12:22:37

Fig.3 Peak Conducted Output Power CH39, DH1



ANNEX A.2. Peak Power Spectral Density

A.2.1 Measurement Limit:

Standard	Limit	
FCC CFR Part 15.247(e)	< 8dBm/3 kHz	

A.2.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.10.

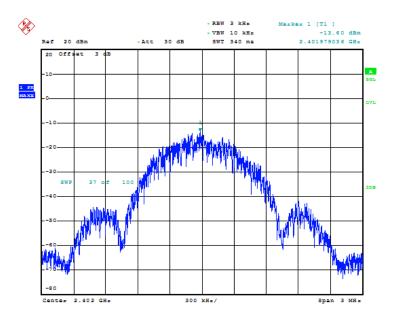
- 1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Enable EUT transmitter maximum power continuously.
- 3. Set analyzer center frequency to DTS channel center frequency.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Set the RBW to 3 kHz \leq RBW \leq 100 kHz.
- 6. Set the VBW \geq [3 \times RBW].
- 7. Detector = peak.
- 8. Sweep time = auto couple.
- 9. Trace mode = max hold.
- 10. Allow trace to fully stabilize.
- 11. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Measurement Results:

Mode	Channel	Power Spectral Density(dBm/3kHz)		Conclusion
	00	Fig.4	-13.60	Р
BT-LE	19	Fig.5	-13.17	Р
	39	Fig.6	-14.00	Р

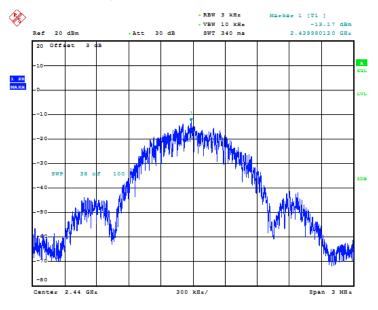
Test figure as below:





Date: 29.JUL.2019 12:24:17

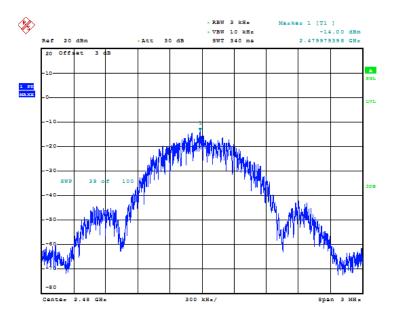
Fig.4 Power spectral density: CH0



Date: 29.JUL.2019 12:25:16

Fig.5 Power spectral density: CH19





Date: 29.JUL.2019 12:26:22

Fig.6 Power spectral density: CH39

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ANNEX A.3. 6dB Bandwidth

A.3.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a) (1)	≥500k

A.3.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.8.

- 1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Enable EUT transmitter maximum power continuously.
- 3. Set RBW = 100 kHz.
- 4. Set the VBW \geq [3 \times RBW].
- 5. Detector = peak.
- 6. Trace mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize.
- 9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

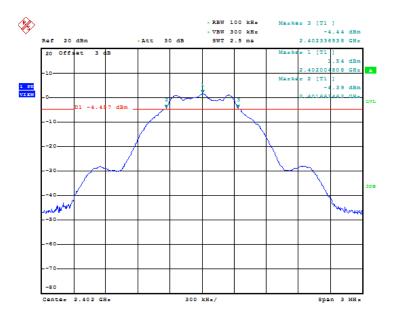
Measurement Result:

For GFSK

Channel	6dB Bandwidth (kHz)		Conclusion
0	Fig.7	673	Р
19	Fig.8	678	Р
39	Fig.9	678	Р

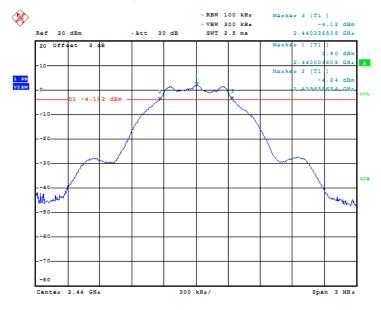
Conclusion: PASS
Test graphs as below:





Date: 29.JUL.2019 12:12:21

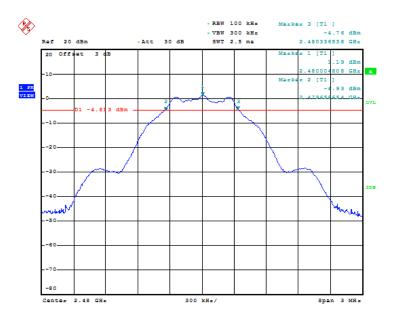
Fig.7 6dB Bandwidth: Ch0



Date: 29.JUL.2019 12:13:44

Fig.8 6dB Bandwidth: Ch19





Date: 29.JUL.2019 12:14:50

Fig.9 6dB Bandwidth: Ch39



ANNEX A.4. Frequency Band Edges-Conducted

A.4.1 Measurement Limit:

Standard	Limited(dBc)	
FCC 47 CFR Part 15.247(d)	>20	

A.4.2 Test procedure

The measurement is according to ANSI C63.10 clause 11.13.2

- 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: Coupled.
- 5) Resolution bandwidth: 100 kHz.6) Video bandwidth: 300 kHz.7) Detector: Peak.8) Trace: Max hold.

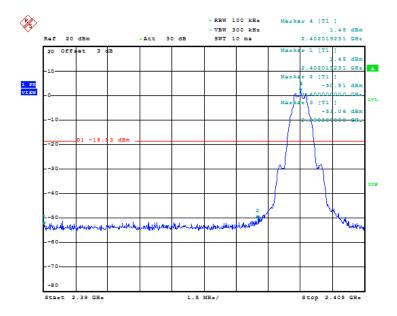
Measurement results

For GFSK

Channel	Band Edge Power (dBc)	Conclusion
0	Fig.10	Р
39	Fig.11	Р

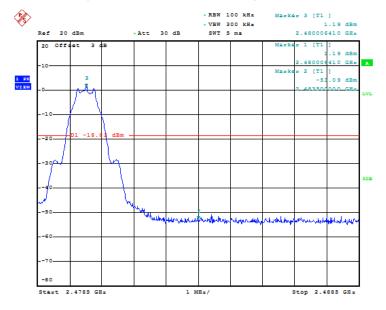
Conclusion: PASS
Test graphs an below





Date: 29.JUL.2019 12:30:12

Fig.10 Frequency Band Edge: GFSK, Ch0



Date: 29.JUL.2019 12:34:20

Fig.11 Frequency Band Edge: GFSK, Ch39



ANNEX A.5. Conducted Emission

A.5.1 Measurement Limit:

Standard	Limit	
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth	

A.5.2 Test procedures

This measurement is according to ANSI C63.10 clause 11.11.

- 1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Enable EUT transmitter maximum power continuously.

Reference level measurement

- 3. Set instrument center frequency to DTS channel center frequency.
- 4. Set the span to \geq 1.5 times the DTS bandwidth.
- 5. Set the RBW = 100 kHz.
- 6. Set the VBW \geq [3 \times RBW].
- 7. Detector = peak.
- 8. Sweep time = auto couple.
- 9. Trace mode = max hold.
- 10. Allow trace to fully stabilize.
- 11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

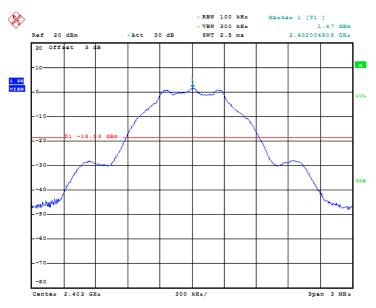
- 12. Set the center frequency and span to encompass frequency range to be measured.
- 13. Set the RBW = 100 kHz.
- 14. Set the VBW \geq [3 \times RBW].
- 15. Detector = peak.
- 16. Sweep time = auto couple.
- 17. Trace mode = max hold.
- 18. Allow trace to fully stabilize.
- 19. Use the peak marker function to determine the maximum amplitude level.

Measurement Results:

Channel	Frequency Range	Test Results	Conclusion
0	Center Freq.	Fig.12	Р
0	30MHz~26GHz	Fig.13	Р
10	Center Freq.	Fig.14	Р
19	30MHz~26GHz	Fig.15	Р
20	Center Freq.	Fig.16	Р
39	30MHz~26GHz	Fig.17	Р

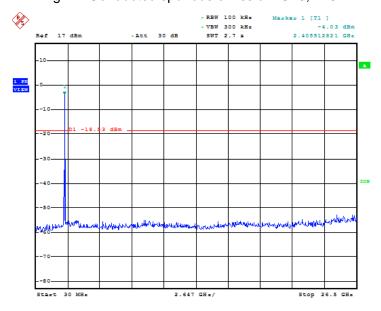


Conclusion: PASS Test graphs as below



Date: 29. JUL. 2019 12:29:36

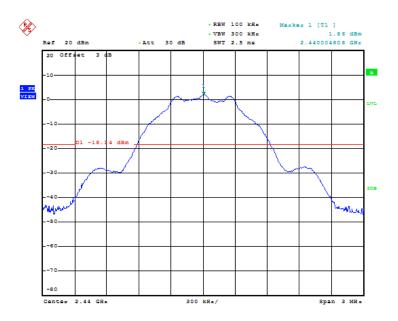
Fig.12 Conducted spurious emission: Ch0, 2402MHz



Date: 29.JUL.2019 12:30:44

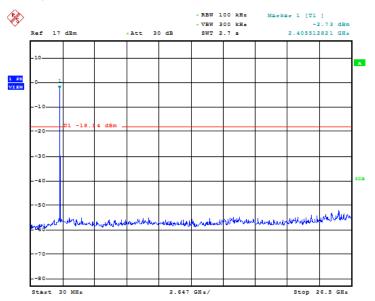
Fig.13 Conducted spurious emission: Ch0, 30MHz~26GHz





Date: 29.JUL.2019 12:31:44

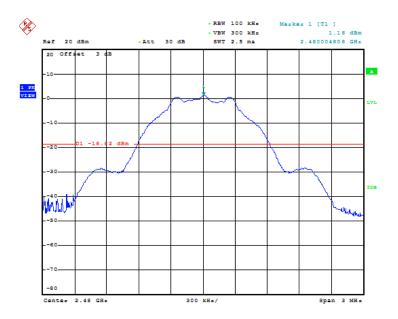
Fig.14 Conducted spurious emission: Ch19, 2440MHz



Date: 29.JUL.2019 12:32:56

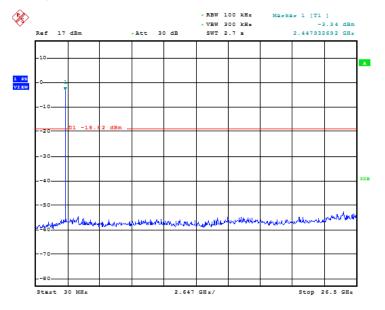
Fig.15 Conducted spurious emission: Ch19, 30MHz~26GHz





Date: 29.JUL.2019 12:33:45

Fig.16 Conducted spurious emission: Ch39, 2480MHz



Date: 29.JUL.2019 12:34:52

Fig.17 Conducted spurious emission: Ch39, 30MHz~26GHz

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ANNEX A.6. Radiated Emission

A.6.1 Measurement Limit:

Standard	Limit	
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power	

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

A.6.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level. The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20



A.6.3 Measurement Results:

A "reference path loss" is established and A_{Rpi} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

A_{Rpi} = Cable loss + Antenna Gain-Preamplifier gain

Result= $P_{Mea} + A_{Rpi}$

Channel	Frequency Range	Test Results	Conclusion
	30MH~1GHz	Fig.18	Р
Ch0 2402MHz	1GHz~3GHz	Fig.19	Р
	3GHz~18GHz	Fig.20	Р
Bandedge (low)	2.31GHz~2.5GHz	Fig.21	Р

Channel	Frequency Range	Test Results	Conclusion
	30MH~1GHz	Fig.22	Р
Ch39 2480MHz	1GHz~3GHz	Fig.23	Р
	3GHz~18GHz	Fig.24	Р
Bandedge (high)	2.31GHz~2.5GHz	Fig.25	Р

Ch0 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.8	17.65	-27.5	45.15	V
75.2	19.59	-30.9	50.49	Н
142.4	15.21	-31.2	46.41	Н
246.5	28.08	-26.8	54.88	V
530.9	26.3	-21.3	47.6	Н
656.9	26.03	-18.6	44.63	Н



Ch0 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2671.4	55.04	4.5	50.54	Н
2717.3	55.12	4.5	50.62	V
2801.4	53.56	4.4	49.16	V
2878.8	55.31	5.5	49.81	V
2927.7	55.22	5.6	49.62	V
2972.4	54.99	5.5	49.49	Н

Ch0 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
2671.4	42.41	4.5	37.91	Н
2717.3	42.25	4.5	37.75	V
2878.8	43.11	5.5	37.61	V
2927.7	43.51	5.6	37.91	V
2972.4	42.98	5.5	37.48	Н

Ch0 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
14872.7	54.53	20.5	34.03	Н
15265.5	55.3	21.4	33.9	Н
15740.0	56.76	23.2	33.56	V
16246.9	58.34	25.3	33.04	Н
17174.5	60.34	27.2	33.14	V
17637.4	59.61	27.5	32.11	Н

Ch0 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
14872.7	42.34	20.5	21.84	Н
15265.5	43.14	21.4	21.74	Н



15740.0	44.32	23.2	21.12	V
16246.9	46.03	25.3	20.73	Н
17174.5	47.83	27.2	20.63	V
17637.4	47.74	27.5	20.24	Н

Ch39 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
35.4	19.86	-27.3	47.16	V
74.5	16.1	-30.7	46.8	V
111.3	17.8	-27.3	45.1	Н
243.8	27.74	-26.9	54.64	V
531.2	25.69	-21.3	46.99	V
656.5	26.65	-18.6	45.25	Н

Ch39 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
2624.9	54.07	4.1	49.97	V
2696.1	55.1	4.6	50.5	V
2768.8	54.76	4.3	50.46	V
2844.8	55.07	5	50.07	Н
2895.5	55.23	5.8	49.43	Н
2958.9	55.73	5.4	50.33	V

Ch39 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
2624.9	41.77	4.1	37.67	V
2696.1	42.31	4.6	37.71	V
2768.8	42.25	4.3	37.95	V
2844.8	42.57	5	37.57	Н



2895.5 43.38 5.8 37.58 H

Ch39 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
14297.9	56.01	20.8	35.21	Н
15645.2	56.04	23	33.04	V
15953.3	58.58	24.8	33.78	V
16766.9	59.69	26.7	32.99	V
17213.6	59.99	27.3	32.69	V
17818.3	60.33	28.2	32.13	Н

Ch39 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl(dB)	PMea(dBuV/m)	Polarity
14297.9	43.11	20.8	22.31	Н
15645.2	44.41	23	21.41	V
15953.3	46.16	24.8	21.36	V
16766.9	47.17	26.7	20.47	V
17213.6	47.93	27.3	20.63	V

Note: Only the worst case is written in the report.

Conclusion: PASS
Test graphs as below:



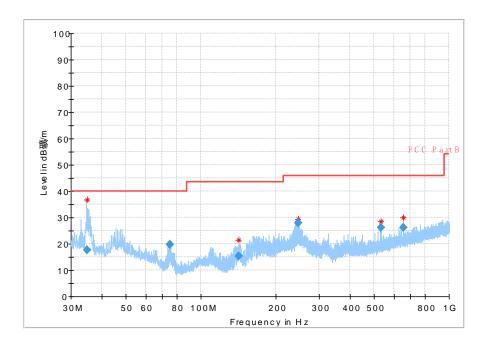


Fig.18 Radiated emission: Ch0, 30MHz~1GHz

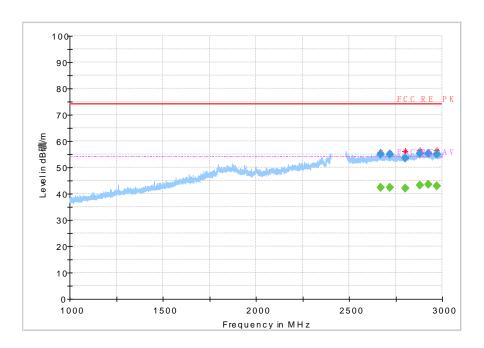


Fig.19 Radiated emission: Ch0, 1GHz~3GHz



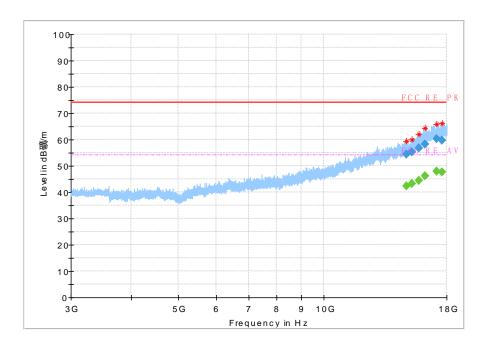


Fig.20 Radiated emission: Ch0, 3GHz~18GHz

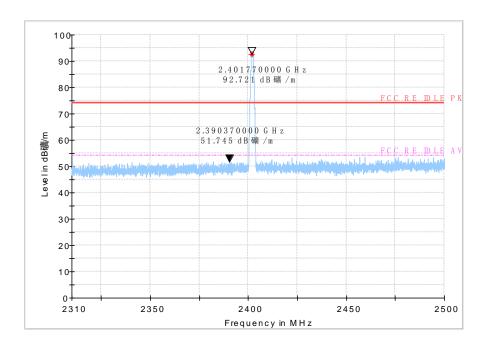


Fig.21 Bandedge:ch0



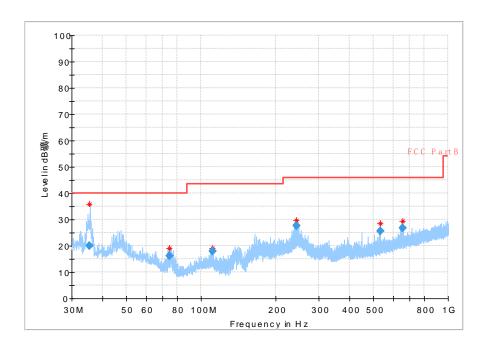


Fig.22 Radiated emission: Ch39, 30MHz~1GHz

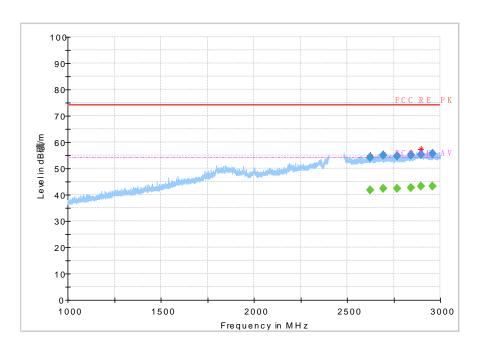


Fig.23 Radiated emission: Ch39, 1GHz~3GHz



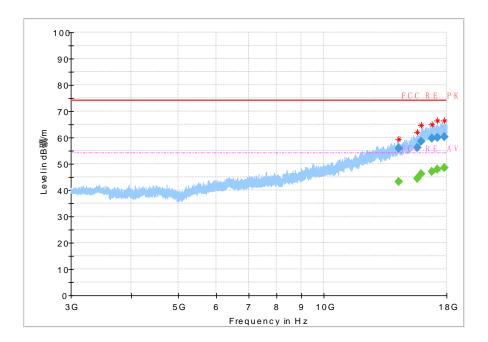


Fig.24 Radiated emission: Ch39, 3GHz~18GHz

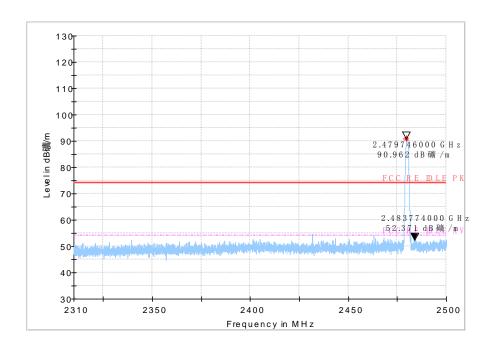
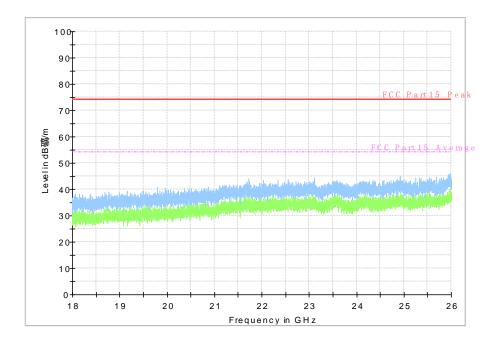


Fig.25 Bandedge:ch39

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ALL Channel 18GHz~26GHz

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ANNEX B. Accreditation Certificate





Accredited Laboratory

A2LA has accredited

EAST CHINA INSTITUTE OF TELECOMMUNICATIONS

Shanghai, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 6th day of May 2019.

Vice President, Accreditation Service: For the Accreditation Council Certificate Number 3682.01 Valid to February 28, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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