RF TEST REPORT



Report No.: Q190401S002-FCC-R

Supersede Report No.: N/A

Applicant	REMOTE SOLUTION.CO,.LTD			
Product Name	REMOTE CONTROL UNIT			
Model No.	P3700			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247, ANSI C63.10: 2013		
Test Date	April 12&M	April 12&May 08, 2019		
Issue Date	May 08, 2019			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Aaron Lia	nd (David Huang		
Aaron Liang		David Huang		
Test Engineer		Checked By		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Test Report No.	Q190401S002-FCC-R
Page	2 of 33

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



Test Report No.	Q190401S002-FCC-R
Page	3 of 33

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Test Report No.	Q190401S002-FCC-R
Page	4 of 33

CONTENTS

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	7
6.	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	8
6.1	ANTENNA REQUIREMENT	8
6.2	DTS (6 DB) CHANNEL BANDWIDTH	9
6.3	MAXIMUM OUTPUT POWER	12
6.4	POWER SPECTRAL DENSITY	14
6.5	BAND-EDGE & UNWANTED EMISSIONS INTO RESTRICTED FREQUENCY BANDS	16
6.6	AC POWER LINE CONDUCTED EMISSIONS	19
6.7	RADIATED EMISSIONS & RESTRICTED BAND	21
ANI	NEX A. TEST INSTRUMENT	28
ANI	NEX B. TEST SETUP AND SUPPORTING EQUIPMENT	29
ANI	NEX C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	32
ANI	NEX D. DECLARATION OF SIMILARITY	33



Test Report No.	Q190401S002-FCC-R
Page	5 of 33

1. Report Revision History

Report No.	Report Version	Description	Issue Date
Q190401S002-FCC-R	NONE	Original	May 08, 2019

2. Customer information

Applicant Name	REMOTE SOLUTION.CO,.LTD	
Applicant Add	92, Chogokri , Nammyun , Kimchon City, Kyungbuk , South Korea , 740-871	
Manufacturer	REMOTE SOLUTION.CO,.LTD	
Manufacturer Add	92, Chogokri , Nammyun , Kimchon City, Kyungbuk , South Korea , 740-871	

3. Test site information

Test Lab A:

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	535293	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	

Test Lab B:

Lab performing tests	Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Laboratories	
Lab Address	No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City,	
	Guangdong 523942, China	
FCC Test Site No.	749762	
IC Test Site No.	5936A-1	
Test Software	ADT_Radiated_V7.6.15.9.2	

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



Test Report No.	Q190401S002-FCC-R
Page	6 of 33

4. Equipment under Test (EUT) Information

Description of EUT:	REMOTE CONTROL UNIT
Main Model:	P3700
Serial Model:	N/A
Date EUT received:	April 04, 2019
Test Date(s):	April 12&May 08, 2019
Equipment Category :	DTS
Antenna Gain:	2.03dBi
Antenna Type:	PCB Antenna
Type of Modulation:	BLE: GFSK
RF Operating Frequency (ies):	BLE: 2402-2480 MHz
Max. Output Power:	8.81dBm
Number of Channels:	BLE: 40CH
Port:	Please refer to user's manual
Trade Name :	N/A

Input Power: Battery:

Spec: DC 3V

FCC ID: TX4-P3700



Test Report No.	Q190401S002-FCC-R
Page	7 of 33

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Compliance
3 - 5 - 5 - 7 (5)	Frequency Bands	Compilation
§15.207 (a),	AC Power Line Conducted Emissions	
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions Com	
§15.247(d)	into Restricted Frequency Bands	

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band-Edge & Unwanted		
Emissions into Restricted		
Frequency Bands and	Confidence level of approximately 95% (in the case	
Radiated Emissions &	where distributions are normal), with a coverage	+5.6dB/-4.5dB
Unwanted Emissions	factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	
into Restricted Frequency		
Bands		
-	- -	-



Test Report No.	Q190401S002-FCC-R
Page	8 of 33

6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antenna:

A permanently attached PCB antenna for BLE, the gain is 2.03dBi for BLE.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



Test Report No.	Q190401S002-FCC-R
Page	9 of 33

6.2 DTS (6 dB) Channel Bandwidth

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1021mbar
Test date :	April 12, 2019
Tested By :	Aaron Liang

Spec	Item	tem Requirement	
§ 15.247(a)(2)	a) 6dB BW≥ 500kHz;		V
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V
Test Setup		Spectrum Analyzer EUT	
Test Procedure	Spectrum Analyzer EUT 558074 D01 DTS MEAS Guidance v05r02, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure - Set RBW = 100 kHz. - Set the video bandwidth (VBW) ≥ 3 RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. 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.		
Remark			
Result	Pas	ss Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



Test Report No.	Q190401S002-FCC-R
Page	10 of 33

Center Free

CF Step 400.000 kH:

6dB Bandwidth measurement result

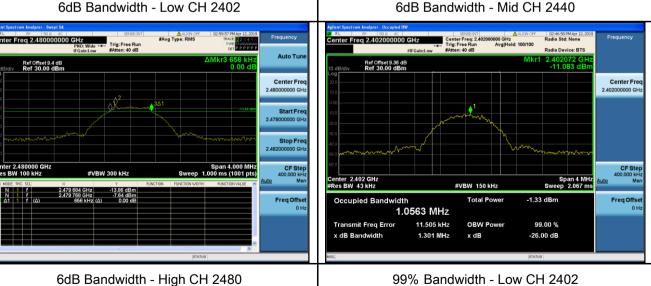
Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	668	1.0563
Mid	2440	676	1.0316
High	2480	656	1.0547

Test Plots



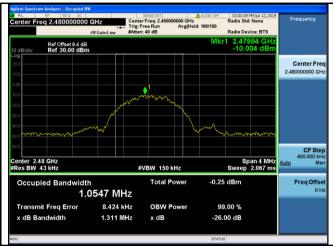
6dB Bandwidth - Low CH 2402





Test Report No.	Q190401S002-FCC-R
Page	11 of 33





99% Bandwidth - Mid CH 2440

99% Bandwidth - High CH 2480



Test Report No.	Q190401S002-FCC-R
Page	12 of 33

6.3 Maximum Output Power

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	May 08, 2019
Tested By:	Aaron Liang

Requirement(s):

Spec	Item	Item Requirement /						
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt						
	b)	b) FHSS in 5725-5850MHz: ≤ 1 Watt						
§15.247(b)	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125						
(3),RSS210		Watt.						
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt						
(* /	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25						
		Watt						
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	>					
Test Setup								
		Spectrum Analyzer EUT						
	558074	D01 DTS MEAS Guidance v05r02, 9.1.2 Integrated band power meth	od					
	Maximui	m output power measurement procedure						
	a) Set th	ne RBW ≥ DTS bandwidth.						
	b) Set V	BW ≥ 3 × RBW.						
Test	c) Set sp	pan ≥ 3 x RBW						
Procedure	d) Swee	p time = auto couple.						
	e) Detec	ctor = peak.						
	f) Trace	mode = max hold.						
	g) Allow trace to fully stabilize.							
	h) Use p	peak marker function to determine the peak amplitude level.						
Remark								



Test Report No.	Q190401S002-FCC-R
Page	13 of 33

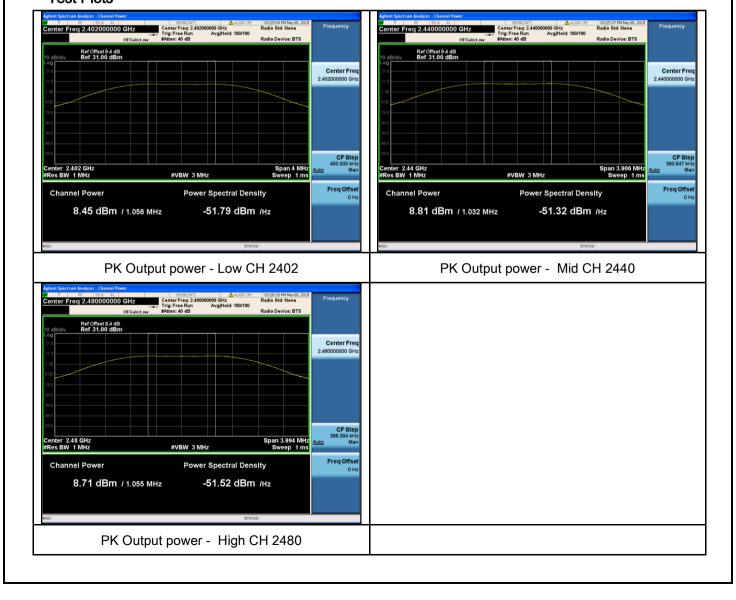
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	CH Frequency Conducted (MHz) Power (dBm)		Limit (dBm)	Result
Output	Low	2402	8.45	30	Pass
Output	Mid	2440	8.81	30	Pass
power	High	2480	8.71	30	Pass

Test Plots





Test Report No.	Q190401S002-FCC-R
Page	14 of 33

6.4 Power Spectral Density

Temperature	25°C		
Relative Humidity	50%		
Atmospheric Pressure	1008mbar		
Test date :	May 08, 2019		
Tested By :	Aaron Liang		

Spec	Item	Requirement	Applicable			
§15.247(e)	a)	a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.				
Test Setup		Spectrum Analyzer EUT				
Test Procedure		D01 DTS MEAS Guidance v05r02, 10.2 power spectral density measurement procedure a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. d) Set the VBW ≥ 3 × RBW. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz	de level within			
Remark						
Result	Pas	ss Fail				

Test Data	Yes	$\square_{N/A}$
Test Plot	Yes (See below)	□ _{N/A}



Test Report No.	Q190401S002-FCC-R
Page	15 of 33

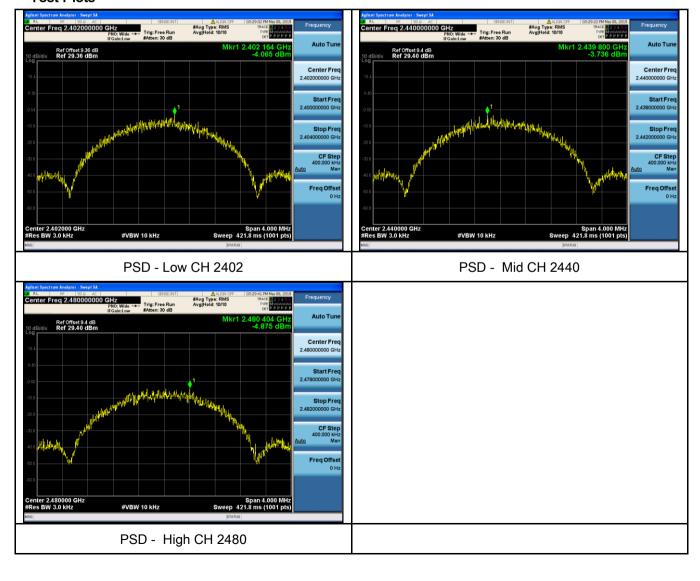
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
PSD	Low	2402	-4.065	-5.23	-9.295	8	Pass
	Mid	2440	-3.736	-5.23	-8.966	8	Pass
	High	2480	-4.875	-5.23	-10.105	8	Pass

Note: factor=10log(3/10)=-5.23

Test Plots





Test Report No.	Q190401S002-FCC-R
Page	16 of 33

6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2019
Tested By:	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable	
§15.247(d)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB		
Test Setup	Ant. Tower Support Units Ground Plane Test Receiver			
Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.			



Yes (See below)

Test Plot

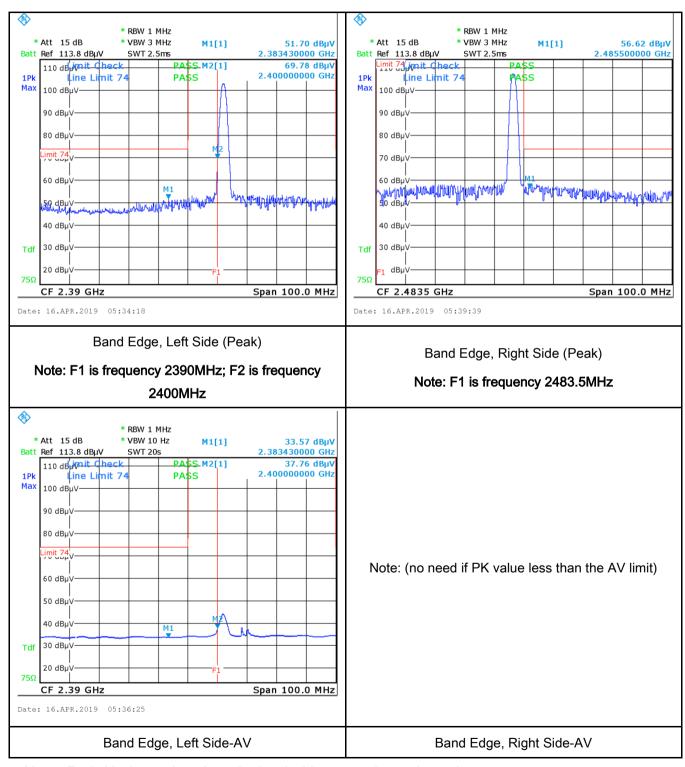
Test Report No.	Q190401S002-FCC-R
Page	17 of 33

	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
	video bandwidth is 10Hz with Peak detection for Average Measurement as below
	at frequency above 1GHz.
	- 4. Measure the highest amplitude appearing on spectral display and set it as a
	reference level. Plot the graph with marking the highest point and edge frequency.
	- 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail
	•
Test Data	∕es N/A



Test Report No.	Q190401S002-FCC-R
Page	18 of 33

Test Plots Band Edge measurement result



Note: Both Horizontal and vertical polarities were investigated.



Test Report No.	Q190401S002-FCC-R
Page	19 of 33

6.6 AC Power Line Conducted Emissions

Temperature	
Relative Humidity	
Atmospheric Pressure	
Test date :	
Tested By:	

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210	a)	Requirement For Low-power radio-frequency devices 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 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.			Аррисавіе
(A8.1)		Frequency ranges	Limit (dBμV)	
(710.1)		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
Test Setup	Vertical Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm			,	
	from other units and other metal planes support units. 1. The EUT and supporting equipment were set up in accordance with the requirements of				
	the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.			94.10111011001	
Procedure		e power supply for the El	_		onnected to
filtered mains.			- , -		
	3. The	e RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss			



Test Report No.	Q190401S002-FCC-R
Page	20 of 33

	coaxial cable.		
	4. All other supporting equipment were powered separately from another main supply.		
	5. The EUT was switched on and allowed to warm up to its normal operating condition.		
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)		
	over the required frequency range using an EMI test receiver.		
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the		
	selected frequencies and the necessary measurements made with a receiver bandwidth		
	setting of 10 kHz.		
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).		
Remark	The EUT was powered by battery.		
Result	Pass Fail N/A		
Test Data	Yes N/A		

Test Data	Yes	▼ N/A
Test Plot	Yes (See below)	✓ _{N/A}



Test Report No.	Q190401S002-FCC-R
Page	21 of 33

6.7 Radiated Emissions & Restricted Band

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	April 16, 2019
Tested By:	Aaron Liang

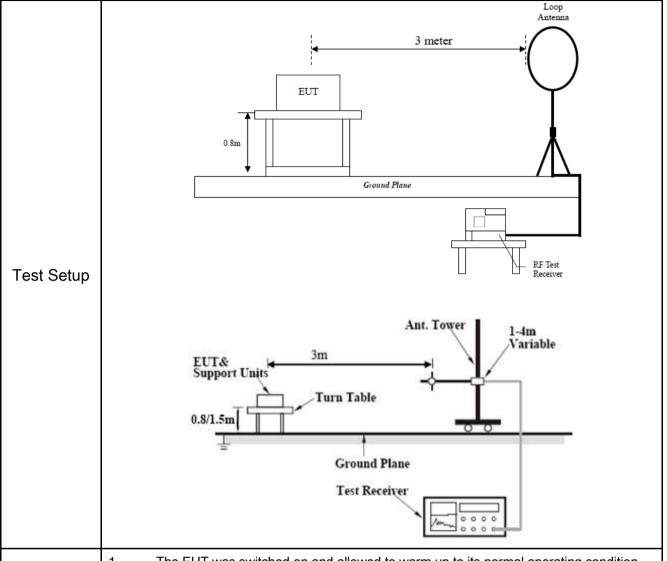
Requirement(s):

Spec	Item	Requirement	Applicable	
		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges		
	,	Frequency range (MHz)	Field Strength (µV/m)	
	a)	0.009~0.490	2400/F(KHz)	~
		0.490~1.705	24000/F(KHz)	
		1.705~30.0	30	
		30 – 88	100	
47CFR§15.		88 – 216		
247(d),		216 960	200	
RSS210		Above 960		
(A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intention band that contains the highest level determined by the measurement mused. Attenuation below the general is not required 20 dB down 30	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the 1 of the desired power, bethod on output power to be	V
	c)	or restricted band, emission must a emission limits specified in 15.209		V



Procedure

Test Report No.	Q190401S002-FCC-R
Page	22 of 33



- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - The EUT was then rotated to the direction that gave the maximum b. emission.
 - Finally, the antenna height was adjusted to the height that gave the maximum C. emission.
- 3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.



Test Report No.	Q190401S002-FCC-R
Page	23 of 33

	The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video							
	bandwidth is 10Hz with Peak detection for Average Measurement as below at							
	frequency above 1GHz.							
	5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency							
	points were measured.							
Remark								
Result	Pass Fail							
Test Data	Yes N/A							
Test Plot	Yes (See below) N/A							

Test Result:

Test Mode:	Transmitting Mode
------------	-------------------

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

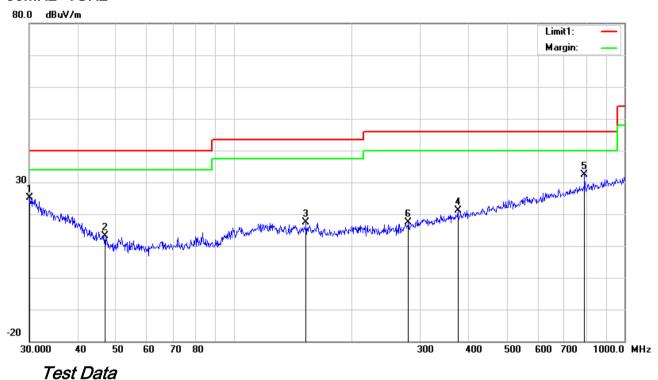
Limit line = specific limits(dBuv) + distance extrapolation factor.



Test Report No.	Q190401S002-FCC-R
Page	24 of 33

Test Mode: Transmitting Mode

30MHz -1GHz



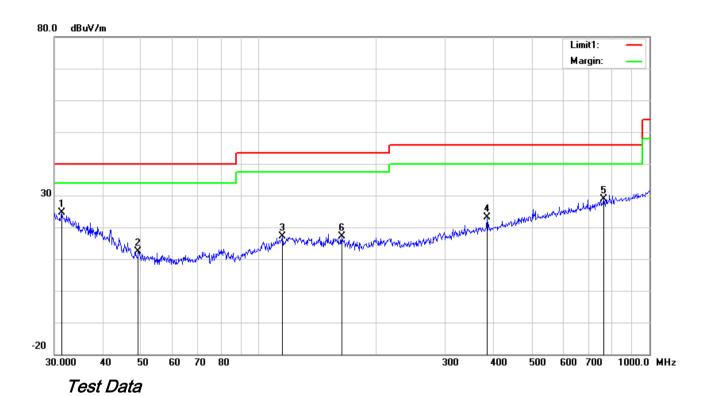
Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	I	30.1054	25.46	21.32	22.28	0.62	25.12	40.00	-14.88	100	30
2	H	46.8303	24.87	9.79	22.32	0.77	13.11	40.00	-26.89	100	177
3	Н	153.2004	25.67	12.60	22.32	1.36	17.31	43.50	-26.19	100	30
4	Н	374.6226	26.00	15.17	22.08	2.03	21.12	46.00	-24.88	100	107
5	Н	790.6188	29.34	21.29	21.17	2.94	32.40	46.00	-13.60	100	347
6	Н	280.0238	25.10	12.72	22.29	1.75	17.28	46.00	-28.72	100	342



Test Report No.	Q190401S002-FCC-R
Page	25 of 33

30MHz -1GHz



Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	31.3992	25.92	20.32	22.27	0.66	24.63	40.00	-15.37	100	65
2	V	49.1866	25.11	8.76	22.37	0.79	12.29	40.00	-27.71	100	271
3	V	114.9169	25.24	13.01	22.35	1.17	17.07	43.50	-26.43	200	97
4	V	383.9318	27.74	15.36	22.05	2.02	23.07	46.00	-22.93	100	119
5	V	763.3757	26.18	20.96	21.23	2.89	28.80	46.00	-17.20	100	20
6	V	163.1818	25.60	12.35	22.27	1.38	17.06	43.50	-26.44	200	4



Test Report No.	Q190401S002-FCC-R
Page	26 of 33

Above 1GHz

Test Mode: Transmitting Mode

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	46.24	AV	V	33.39	7.22	48.46	38.39	54	-15.61
4804	45.29	AV	Н	33.39	7.22	48.46	37.44	54	-16.56
4804	65.93	PK	V	33.39	7.22	48.46	58.08	74	-15.92
4804	67.34	PK	Н	33.39	7.22	48.46	59.49	74	-14.51
10605	37.39	AV	V	40.1	10.08	46.82	40.75	54	-13.25
10605	34.45	AV	Н	40.1	10.08	46.82	37.81	54	-16.19
10605	57.01	PK	V	40.1	10.08	46.82	60.37	74	-13.63
10605	59.5	PK	Н	40.1	10.08	46.82	62.86	74	-11.14

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	42.12	AV	V	33.62	7.53	48.36	34.91	54	-19.09
4880	45.69	AV	Н	33.62	7.53	48.36	38.48	54	-15.52
4880	65.85	PK	V	33.62	7.53	48.36	58.64	74	-15.36
4880	67.87	PK	Н	33.62	7.53	48.36	60.66	74	-13.34
7156	45.34	AV	V	37	8.08	48.56	41.86	54	-12.14
7156	44.01	AV	Н	37	8.08	48.56	40.53	54	-13.47
7156	61.06	PK	V	37	8.08	48.56	57.58	74	-16.42
7156	65.77	PK	Н	37	8.08	48.56	62.29	74	-11.71



Test Report No.	Q190401S002-FCC-R
Page	27 of 33

High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	43.27	AV	V	33.89	7.86	48.31	36.71	54	-17.29
4960	47.72	AV	Н	33.89	7.86	48.31	41.16	54	-12.84
4960	66.32	PK	V	33.89	7.86	48.31	59.76	74	-14.24
4960	63.06	PK	Н	33.89	7.86	48.31	56.5	74	-17.5
17924	18.93	AV	V	43.42	19.46	44.3	37.51	54	-16.49
17924	19.86	AV	Н	43.42	19.46	44.3	38.44	54	-15.56
17924	42.71	PK	V	43.42	19.46	44.3	61.29	74	-12.71
17924	40.69	PK	Н	43.42	19.46	44.3	59.27	74	-14.73

Note:

- 1, The testing has been conformed to 10*2480MHz=24,800MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.
- 4, The radiated spurious test above 18GHz is subcontracted to Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Laboratories and found 30dB below the limit at least.



Test Report No.	Q190401S002-FCC-R
Page	28 of 33

Annex A. TEST INSTRUMENT

Instrument	Model	Serial#	Cal Date	Cal Due
AC Line Conducted Emission	s			
EMI test receiver	ESCS30	8471241027	01/04/2019	01/03/2020
Artificial Mains Network	8127	8127713	01/04/2019	01/03/2020
ISN	ISN T800	34373	01/04/2019	01/03/2020
Radiated Emissions				
EMI test receiver	ESL6	1300.5001K06- 100262-eQ	01/04/2019	01/03/2020
Active Antenna	AL-130	121031	02/07/2019	02/06/2020
3m Semi-anechoic Chamber	9m*6m*6m	N/A	10/18/2018	10/17/2019
Signal Amplifier	8447E	443008	01/24/2019	01/23/2020
MXA signal analyzer	N9020A	MY49100060	01/04/2019	01/03/2020
Horn Antenna	HAH-118	71259	01/25/2019	01/24/2020
Horn Antenna	HAH-118	71283	02/01/2019	01/31/2020
AMPLIFIER	EM01G26G	60613	01/24/2019	01/23/2020
AMPLIFIER	Emc012645	980077	01/04/2019	01/03/2020
Bilog Antenna (30MHz~6GHz)	JB6	A110712	02/07/2019	02/06/2020
RF Conducted				
DC Power Supply	E3640A	MY40004013	01/04/2019	01/03/2020
MXA Signal Analyzer	N9020A	MY49100060	01/04/2019	01/03/2020
MXG Vector Signal Generator	N5182A	MY50140530	01/04/2019	01/03/2020
Series Signal Generator	E4421B	US40051152	05/12/2018	05/11/2019
RF control unit	JS0806-0806-2	188060112	04/25/2018	04/24/2019
RF control unit	JS0806-0806-2	188060112	04/24/2019	04/23/2020
Wireless Connectivity Tester	CMW270	1201.0002K75- 101601-PE	04/25/2018	04/24/2019
Wireless Connectivity Tester	CMW270	1201.0002K75- 101601-PE	04/24/2019	04/23/2020
Weinschel	1580-1	TL177	01/04/2019	01/03/2020
Universal Radio Communica	CMU200	121393	02/10/2019	02/09/2020

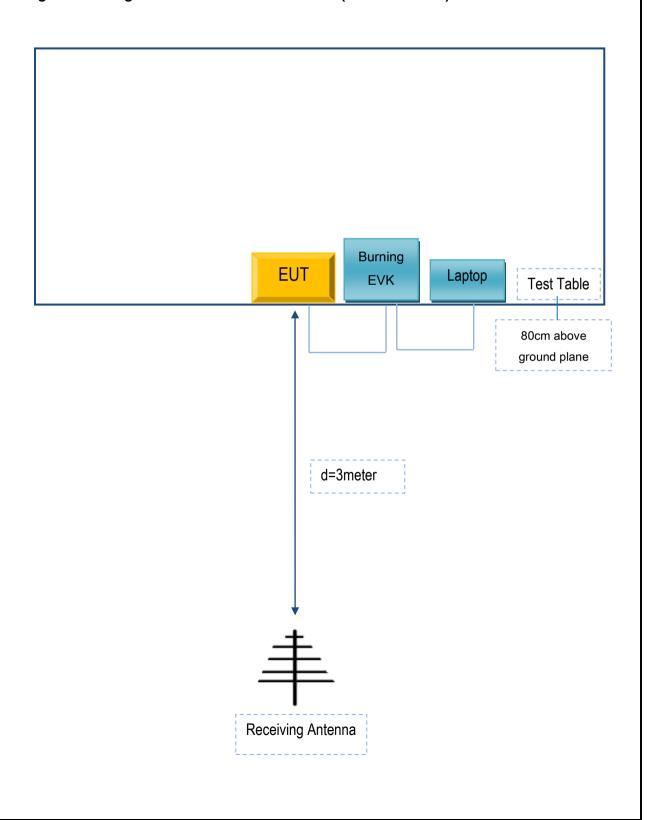


Test Report No.	Q190401S002-FCC-R
Page	29 of 33

Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.i. TEST SET UP BLOCK

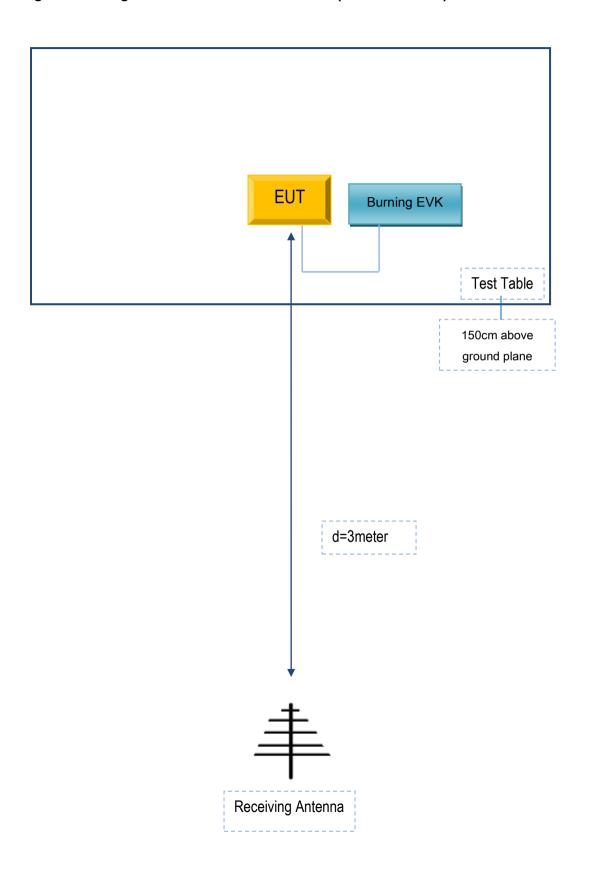
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





Test Report No.	Q190401S002-FCC-R
Page	30 of 33

Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





Test Report No.	Q190401S002-FCC-R
Page	31 of 33

Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	N/A
TELINK	Burning EVK	TLSR8266BR56	TELINK

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.5m	N/A



Test Report No.	Q190401S002-FCC-R
Page	32 of 33

Annex C. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



Test Report No.	Q190401S002-FCC-R
Page	33 of 33

Annex D. DECLARATION OF SIMILARITY

N/A