TEST REPORT

FCC ID: 2AOH4TG20A101 Product: Camera Gimbal Model No.: Accsoon A1 Additional Model No.: A1, A1 Pro, A1 Plus, A1 Lite Trade Mark: Accsoon Report No.: TCT171211E034 Issued Date: Dec. 26, 2017

Chengdu Accsoon Technology Co., LTD. No.505, Building 6, D Zone, Tianfu Software Park, No.599, Shijicheng South Road, Chengdu, SiChuan, 610000 China

Issued for:

Issued By:

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TCT通测检测 1. Test Certification

Report	No.:	TCT171211E034

Product:	Camera Gimbal
Model No.:	Accsoon A1
Additional Model No.:	A1, A1 Pro, A1 Plus, A1 Lite
Trade Mark:	Accsoon
Applicant:	Chengdu Accsoon Technology Co., LTD.
Address:	No.505, Building 6, D Zone, Tianfu Software Park, No.599, Shijicheng South Road, Chengdu, SiChuan, 610000 China
Manufacturer:	Chengdu Accsoon Technology Co., LTD.
Address:	No.505, Building 6, D Zone, Tianfu Software Park, No.599, Shijicheng South Road, Chengdu, SiChuan, 610000 China
Date of Test:	Dec. 12, 2017 - Dec. 25, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

	Tested By:	Brens Xu	Date:	Dec. 25, 2017	
	Reviewed By:	Brews Xu Zoo thm	Date:	Dec. 26, 2017	
	Approved By:	Joe Zhou Tomsin	TCT S S Date:	Dec. 26, 2017	
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<u>Hotline</u>	e: 400-6611-140	Tel: 86-755-27673339	Fax: 86-755-27673332	http://www.tct-lab.c	<u>om</u>



2. Test Result Summary

	ement		CFR 47 Se	ction		Result	
Antenna re	quirement	§	15.203/§15.	.247 (c)	K)	PASS	K
AC Power Lin Emis			§15.20	7		PASS	
Conducted P Pow			§15.247 (I §2.104			PASS	
6dB Emissior	n Bandwidth		§15.247 (a §2.104		Ð	PASS	
Power Spect	tral Density		§15.247	(e)		PASS	
Band I	Edge		1§5.247 §2.1051, §2			PASS	
	(\mathcal{O})		§15.205/§1			PASS	
lote: 1. PASS: Test ite 2. Fail: Test item	Emission m meets the requir does not meet the	rement. requirement		2.1057			
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case	m meets the requi	rement. requirement the test object	ct.				
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case	m meets the requi does not meet the does not apply to	rement. requirement the test object	ct.				
lote: 1. PASS: Test ite 2. Fail: Test item 3. N/A: Test case	m meets the requi does not meet the does not apply to	rement. requirement the test object	ct.				



3. EUT Description

Product:	Camera Gimbal
Model No.:	Accsoon A1
Additional Model No.:	A1, A1 Pro, A1 Plus, A1 Lite
Trade Mark:	Accsoon
BT Version:	V4.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	4dBi
Power Supply:	Rechargeable Li-ion battery DC 7.4V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
(<u>(</u>)	((LO)
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.	((c
			2		No.		I I I I I I I I I I I I I I I I I I I

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4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting

Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

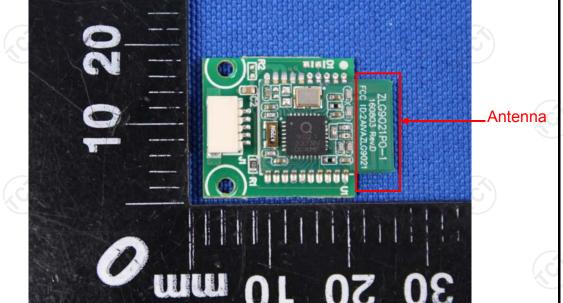
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 4dBi.



6.2. Conducted Emission

6.2.1. Test Specification

			(
Test Requirement:	FCC Part15 C Section	15.207				
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range	Frequency range Limit (dBuV)				
	(MHz)	Quasi-peak	Áverage			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
		nce Plane	(201)			
Test Setup:	E.U.T Adap Test table/Insulation pla Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio Test table height=0.8m	ne EMI Receiver	ter AC power			
Test Mode:	Charging + Transmittir	ng Mode				
	 The E.U.T is connering edance stabilizing provides a 500hm/s measuring equipme The peripheral device power through a L coupling impedance 	zation network 50uH coupling im nt. ces are also conne ISN that provides	(L.I.S.N.). This pedance for the ected to the mair a 50ohm/50uH			
Test Procedure:	refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative the interface cables	diagram of the line are checkence. In order to fir positions of equ s must be chang	d for maximun nd the maximun ipment and all o ed according to			
Test Procedure: Test Result:	refer to the block photographs). 3. Both sides of A.C. conducted interfere emission, the relativ	diagram of the line are checkence. In order to fir positions of equ s must be chang	ed for maximun nd the maximun ipment and all o ed according to			

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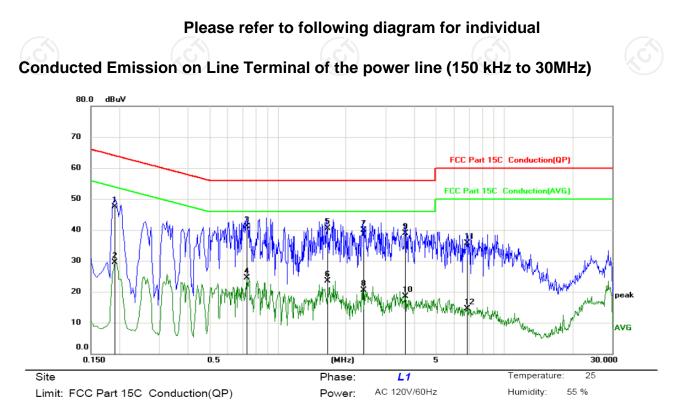
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.2.3. Test data



Report No.: TCT171211E034

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1905	36.02	11.45	47.47	64.01	-16.54	QP	
2		0.1905	18.13	11.45	29.58	54.01	-24.43	AVG	
3	*	0.7304	29.89	11.22	41.11	56.00	-14.89	QP	
4		0.7304	13.38	11.22	24.60	46.00	-21.40	AVG	
5		1.6619	28.96	11.52	40.48	56.00	-15.52	QP	
6		1.6619	11.96	11.52	23.48	46.00	-22.52	AVG	
7		2.3864	28.32	11.55	39.87	56.00	-16.13	QP	
8		2.3864	8.99	11.55	20.54	46.00	-25.46	AVG	
9		3.6600	27.90	11.09	38.99	56.00	-17.01	QP	
10		3.6600	7.49	11.09	18.58	46.00	-27.42	AVG	
11		6.8460	24.86	10.90	35.76	60.00	-24.24	QP	
12		6.8460	3.68	10.90	14.58	50.00	-35.42	AVG	

Note:

 Freq. = Emission frequency in MHz

 Reading level (dBμV) = Receiver reading

 Corr. Factor (dB) = Antenna factor + Cable loss

 Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

 Limit (dBμV) = Limit stated in standard

 Margin (dB) = Measurement (dBμV) - Limits (dBμV)

 Q.P. =Quasi-Peak

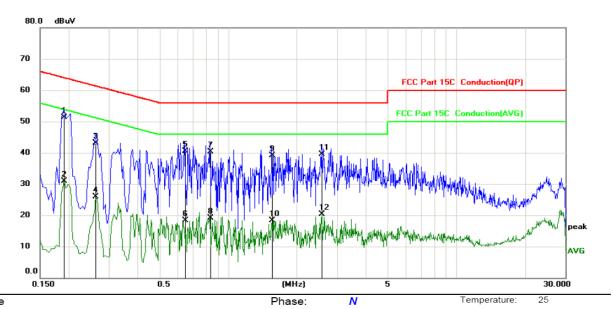
 AVG =average

 * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

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Humidity:

55 %



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

Site AC 120V/60Hz Limit: FCC Part 15C Conduction(QP) Power:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1905	39.80	11.45	51.25	64.01	-12.76	QP	
2		0.1905	19.48	11.45	30.93	54.01	-23.08	AVG	
3		0.2625	31.65	11.42	43.07	61.35	-18.28	QP	
4		0.2625	14.47	11.42	25.89	51.35	-25.46	AVG	
5		0.6449	29.28	11.25	40.53	56.00	-15.47	QP	
6		0.6449	7.13	11.25	18.38	46.00	-27.62	AVG	
7		0.8338	29.01	11.21	40.22	56.00	-15.78	QP	
8		0.8338	7.80	11.21	19.01	46.00	-26.99	AVG	
9		1.5584	27.60	11.47	39.07	56.00	-16.93	QP	
10		1.5584	6.85	11.47	18.32	46.00	-27.68	AVG	
11		2.5800	27.93	11.48	39.41	56.00	-16.59	QP	
12		2.5800	8.83	11.48	20.31	46.00	-25.69	AVG	

Note1:

Freq. = Emission frequency in MHz Reading level $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = Antenna factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V) = Limit$ stated in standard Margin (dB) = Measurement (dB μ V) – Limits (dB μ V) Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x 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.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

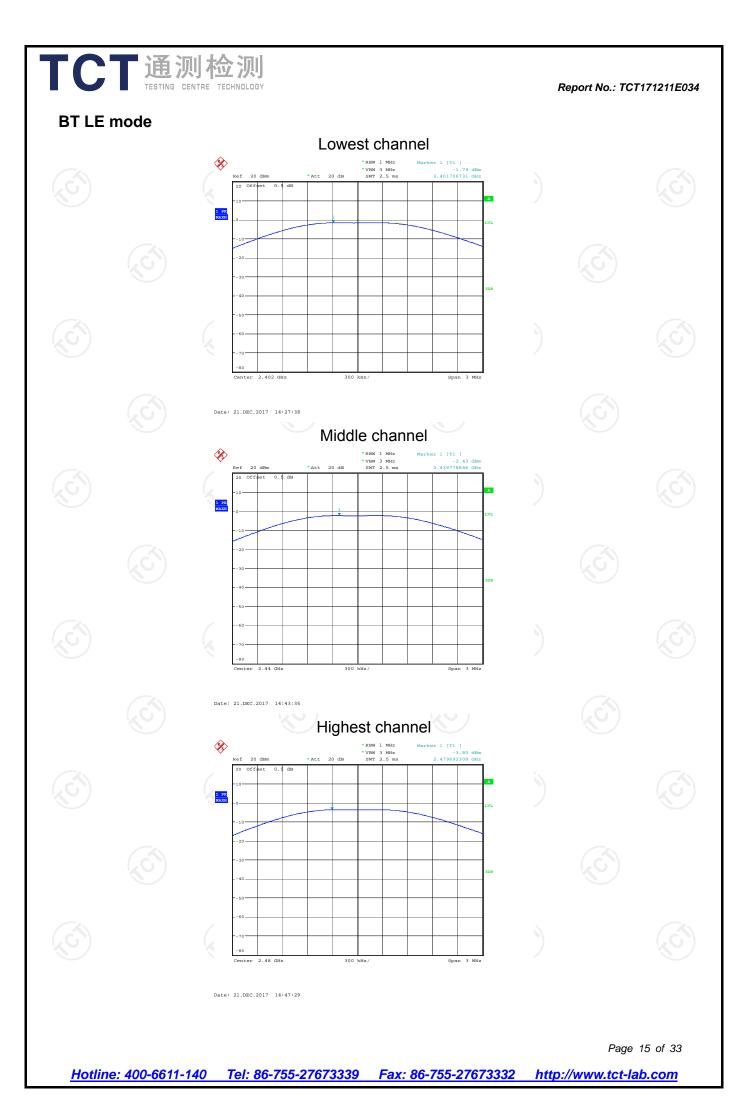
6.3.3. Test Data

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BT LE mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	-1.74	30.00	PASS			
Middle	-2.43	30.00	PASS			
Highest	-3.80	30.00	PASS			

Test plots as follows:

	ots as follov	ws.						
							Para	14 of 33
<u>Hotlin</u>	e: 400-6611	-140 Tel: 8	36-755-2767	3339 Fax:	<u>86-755-2767</u>	<mark>3332 http</mark>	://www.tct-la	





6.4. Emission Bandwidth

6.4.1. Test Specification

FCC Part15 C Section 15.247 (a)(2)
KDB558074
>500kHz
Spectrum Analyzer EUT
Refer to item 4.1
 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
PASS

6.4.2. Test Instruments

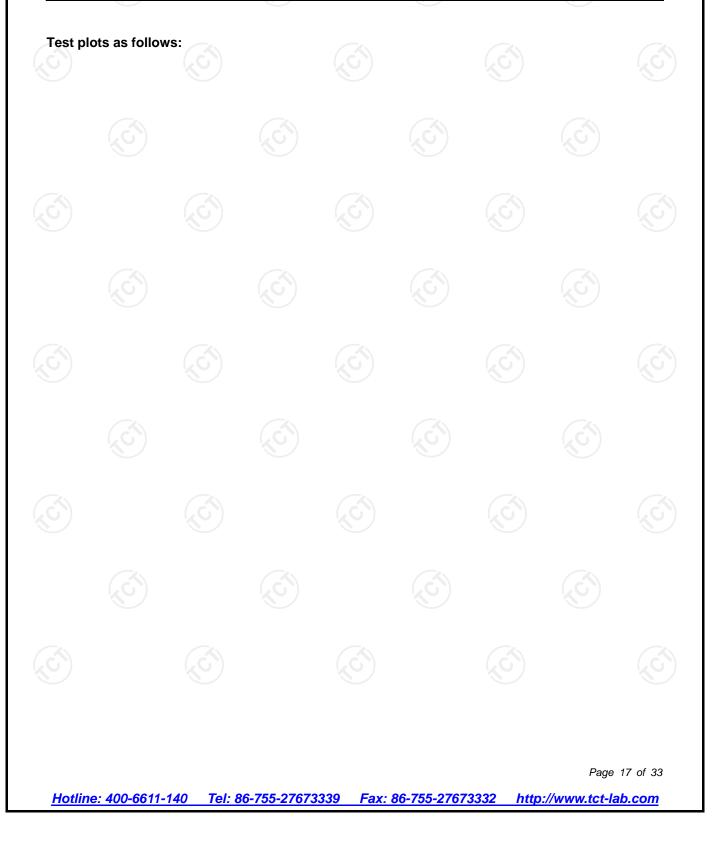
RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018				
RF cable (9kHz-26.5GHz)	б тст	RE-06	N/A	Sep. 27, 2018				
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 27, 2018				

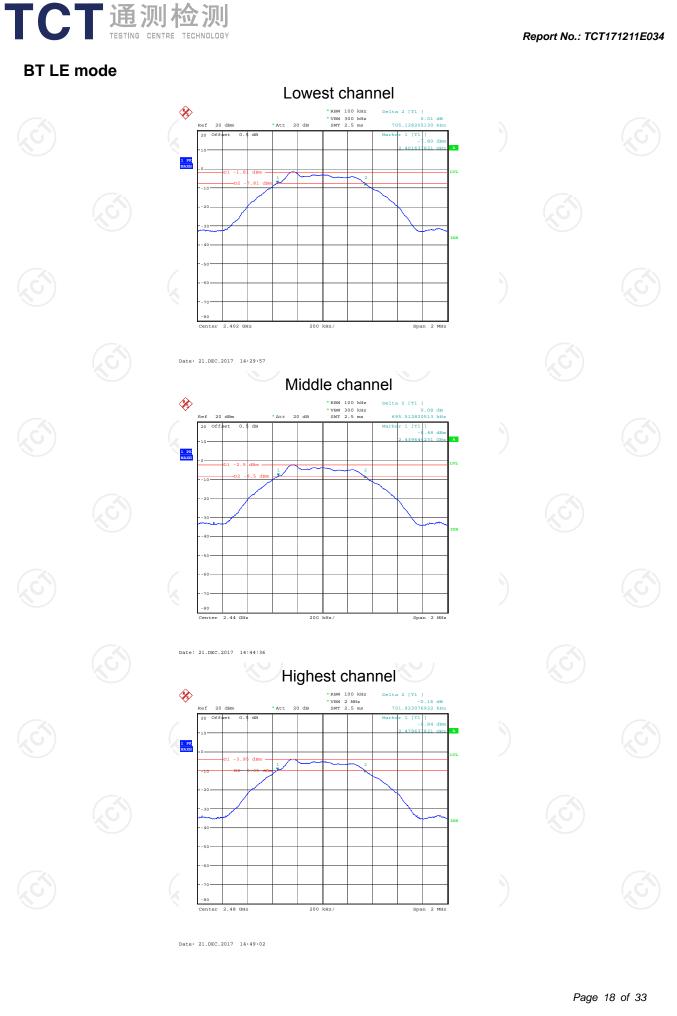
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4.3. Test data

	Toot shapped	6dB Emission Bandwidth (kHz)				
(Test channel	BT LE mode	Limit	Result		
0	Lowest	705.13	>500k	J.		
	Middle	695.51	>500k	PASS		
	Highest	701.92	>500k			







6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room								
Equipment	Equipment Manufacturer Model Serial Number Calibration							
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018				
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018				
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

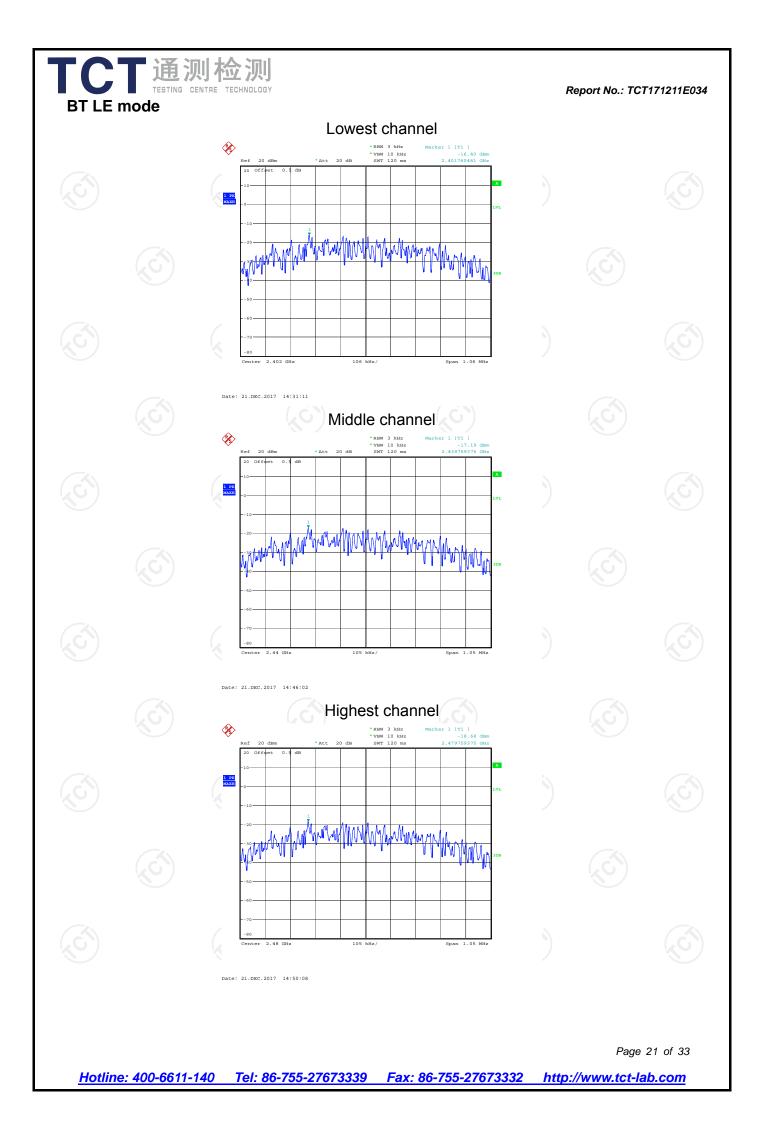
6.6.2. Test data

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test channel	Power Spectral	Density (dBm/3kł	Hz)
rest channel	BT LE mode	Limit	Result
Lowest	-16.40	8 dBm/3kHz	
Middle	-17.19	8 dBm/3kHz	PASS
Highest	-18.68	8 dBm/3kHz	
		\mathcal{O}	S I

Test plots as follows:

<u>Hotline: 4</u>		:6-755-2767 3	86-755-2767	Page ://www.tct-la	20 of 33



6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

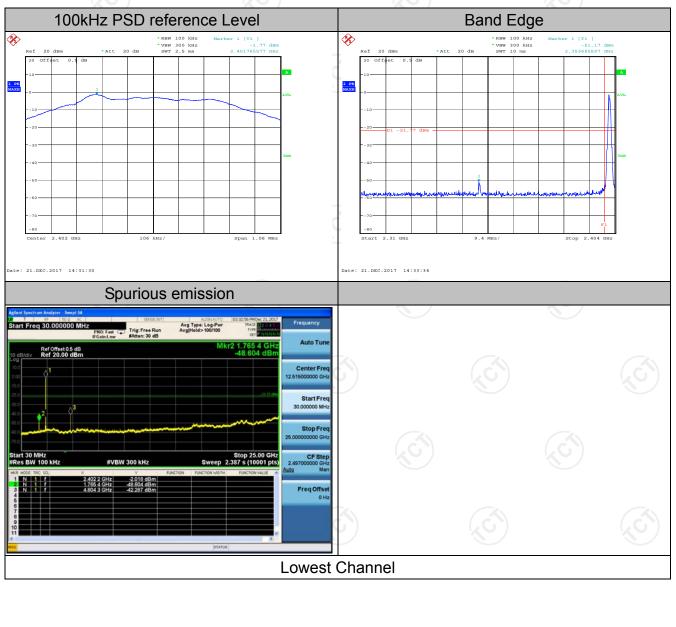
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
	against the limit line in the operating nequency band.

6.7.2. Test Instruments

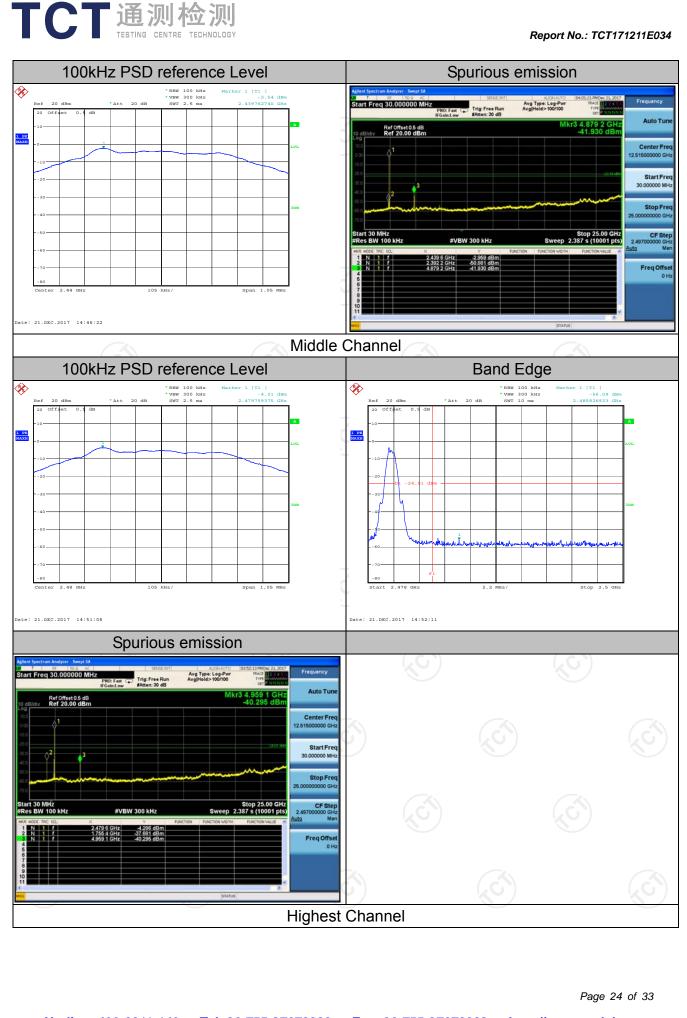
	RI	F Test Room	1	
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data



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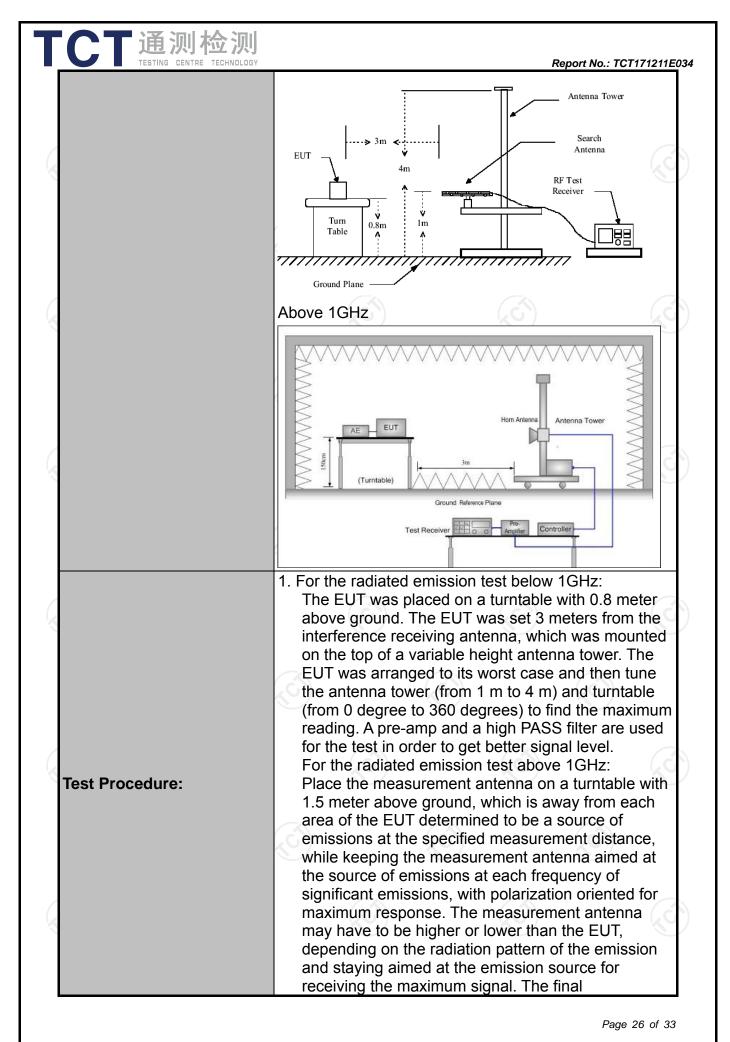


6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

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Test Requirement:	FCC Part15	C Sectior	n 15.209 👌			8	
Test Method:	ANSI C63.10): 2013					
Frequency Range:	9 kHz to 25 (GHz			C		
Measurement Distance:	3 m	X			K.	<u>)</u>	
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	14.1	(3			
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea		VBW 1kHz 30kHz		Remark si-peak Value	
Receiver Setup:	30MHz	Quasi-peal	\mathbf{G}	JUKHZ	Quasi-peak Va		
	30MHz-1GHz Above 1GHz	Quasi-peal Peak Peak	k 100KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Quasi-peak V Peak Value Average Val		
	Frequen	Field Stre	-	Ме	easurement ance (meters)		
	0.009-0.4		2400/F(I	(Hz)	300		
	0.490-1.7	/	24000/F(KHz)		30	
	1.705-3		30 100		30		
_imit:	88-216		150			3	
	216-96	200			3		
	Above 9	60	500			3	
	Frequency		d Strength ovolts/meter)	Measure Distan (meter	се	Detector	
	Above 1GHz	,	500	3		Average	
			5000	3		Peak	
Test setup:	For radiated emissions below 30MHz Distance = 3m Pre - Amplifier FUT Turn table						
	30MHz to 10		round Plane		Ľ	Receiver	



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	 Report No.: TCT171211E measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS

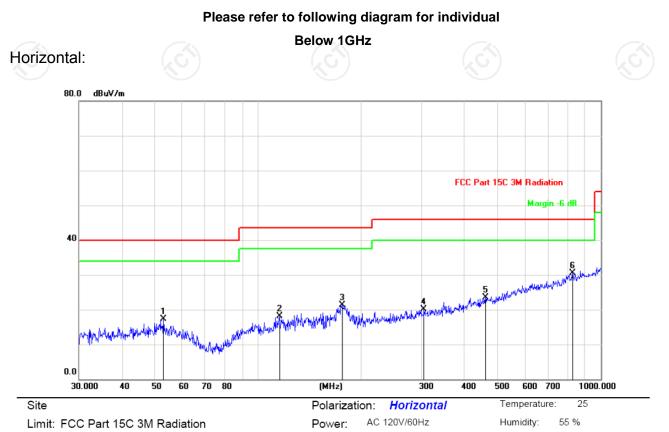


6.8.2. Test Instruments

	Radiated Em	ission Test Sit	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	ТСТ	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

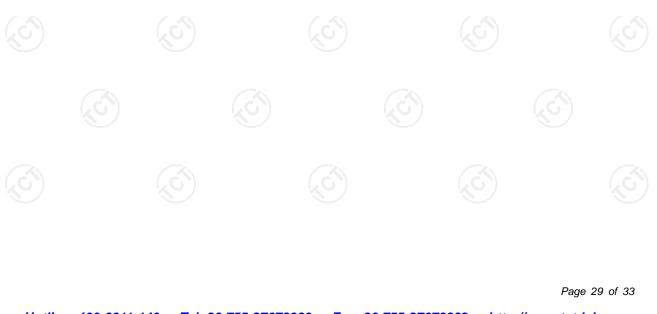
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.8.3. Test Data

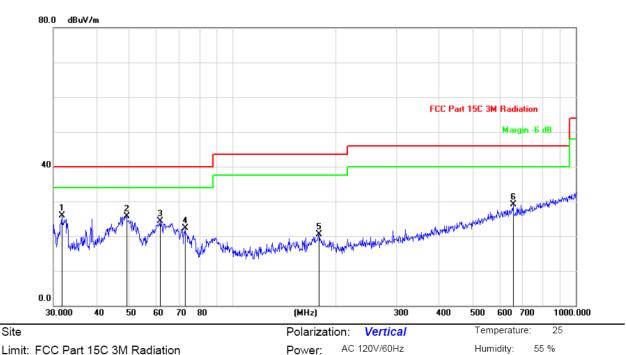


Report No.: TCT171211E034

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		52.9453	30.27	-12.88	17.39	40.00	-22.61	peak			
2		115.3204	31.46	-13.40	18.06	43.50	-25.44	peak			
3		175.6516	35.62	-14.23	21.39	43.50	-22.11	peak			
4		304.6099	28.71	-8.56	20.15	46.00	-25.85	peak			
5		460.7271	27.62	-4.16	23.46	46.00	-22.54	peak			
6	*	827.4933	28.22	2.28	30.50	46.00	-15.50	peak			



Vertical:



Limit: FCC Part 15C 3M Radiation

۱o.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	31.7313	39.55	-13.62	25.93	40.00	-14.07	peak			
2		49.0144	38.37	-12.65	25.72	40.00	-14.28	peak			
3		61.3462	38.20	-13.96	24.24	40.00	-15.76	peak			
4		72.5916	39.61	-17.25	22.36	40.00	-17.64	peak			
5		178.7582	34.52	-14.04	20.48	43.50	-23.02	peak			
6	6	356.5300	29.44	-0.34	29.10	46.00	-16.90	peak			

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Low channel) was submitted only.

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Above 1GHz

Low chann	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2390	Н	44.71		-7.52	34.19		74	54	-19.81
4804	Н	42.59		7.44	49.73		74	54	-4.27
7206	Н	35.82		13.54	50.06		74	54	-3.94
	Н								
			(.6)		(G		(\mathbf{G})	
2390	V	42.67		-7.52	34.15		74	54	-19.85
4804	V	41.89		7.44	49.89		74	54	-4.11
7206	V	35.8		13.54	50.34		74	54	-3.66
	V			(×				
$\langle \mathbf{O} \rangle$		(20)			(` ر		(20)		ر کړ

Middle channel: 2440 MHz

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Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	KCH)	40.13	-420	7.01	45.13	<u>(G</u>)-	74	54	-8.87
7320	F	34.88		13.21	49.19		74	54	-4.81
	Н								
			n						
4880	V	41.36		0.99	42.35		74	54	-11.65
7320	V	39.42		9.87	49.29		74	54	-4.71
	V				-				

High channel: 2480 MHz

i ngiri onaini									
Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	$\Delta V limit$	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV		(dBµV/m)	(dB)
(11112)	1	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)			(48)
2483.5	Н	43.15		-7.52	34.63		74	54	-19.37
4960	Н	42.6		7.44	49.22		74	54	-4.78
7440	Н	35.64		13.54	49.77		74	54	-4.23
	Н			<u> </u>)				
2483.5	V	42.56		-7.52	34.58		74	54	-19.42
4960	V	40.49		7.44	49.44		74	54	-4.56
7440	J G V	35.82	-+20	13.54	49.84	~G `}	74	54	-4.16
	V								

Note:

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

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

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

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

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

