TEST REPORT

FCC ID: XVE-TRX1021 Product: Intelligent battery charger Model No.: 2971 Additional Model No.: N/A Trade Mark: TRAXXAS Report No.: TCT160905E021 Issued Date: Oct. 12, 2016

Issued for:

Traxxas, L.P. 6250 Traxxas Way, McKinney, Texas 75070, USA

Issued By:

Shenzhen Tongce Testing Lab. 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China TEL: +86-755-27673339 FAX: +86-755-27673332

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TCT通测检测 1. Test Certification

Product:	Intelligent battery charger
Model No.:	2971
Additional Model No.:	N/A
Applicant:	Traxxas, L.P.
Address:	6250 Traxxas Way, McKinney, Texas 75070, USA
Manufacturer:	Kunshan Hi-Fortune Plastic & Metal Co., Ltd
Address:	No.301, Qinhe Road, Zhangpu Town Kunshan City, Jiangsu, China
Date of Test:	Sep. 05 – Oct. 11, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05
G)	

Report No.: TCT160905E021

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:	Beryl Zhao	Date:	Oct. 11, 2016	
Reviewed By:	Zonthan	Date:	Oct. 12, 2016	_
Approved By:	Joe Zhou TomSm Tomsin	Date:	Oct. 12, 2016	
	Tomsin			
			Page	e 3 of 40



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Product Name:	Intelligent battery charger
Model :	2971
Additional Model:	N/A
Trade Mark:	TRAXXAS
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	-0.83dBi
Power Supply:	AC 120V/60HZ

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
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
9 4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
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.	((Å
	X		X				No.

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4. Genera Information

CT 通测检测 TESTING CENTRE TECHNOLOGY

4.1. Test environment and mode

Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	KO)

Keep the EUT in continuous transmitting by select channel and modulations(The
value of duty cycle is 98.46%)

The sample was placed (0.8m 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
1	1		6 1	

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.: 572331
 - 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

CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

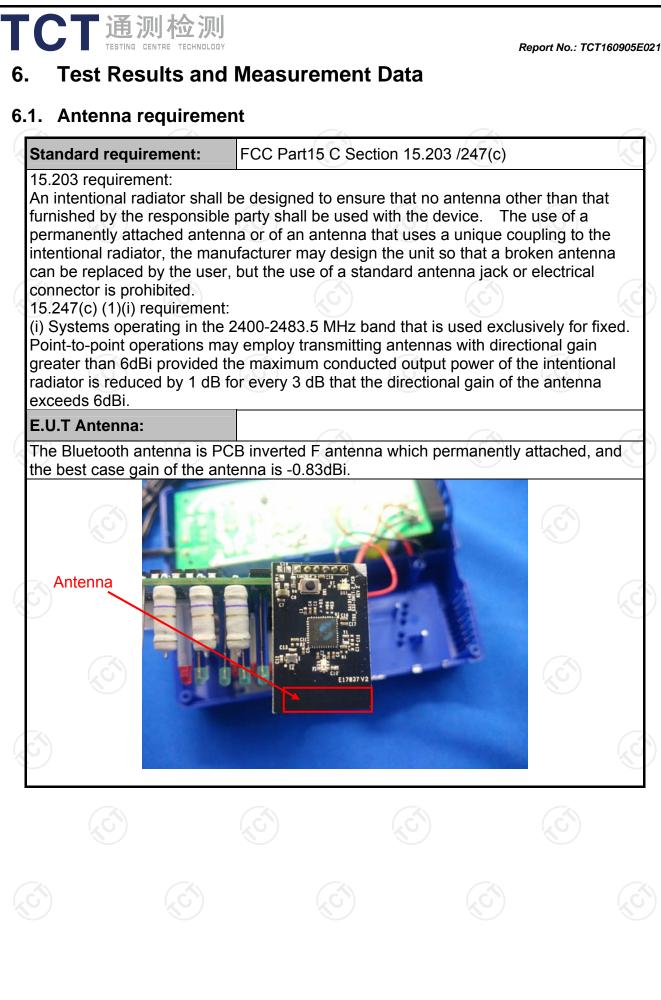
Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China Tel: 86-755-36638142

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%



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207				
Test Method:	ANSI C63.4:2014					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	e=auto				
	Frequency range	Limit (· · · · · · · · · · · · · · · · · · ·			
Limits:	(MHz) 0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*			
Limits:	0.15-0.5	56	46			
	5-30	60	50			
	Reference	e Plane	120			
Test Setup:	E.U.T AC powe Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization IN Test table height=0.8m	EMI Receiver	┝── AC power			
Test Mode:	Transmitting Mode	(\mathcal{S})				
Test Procedure:	 The E.U.T and simpower through a lin (L.I.S.N.). This primpedance for the n The peripheral device power through a L coupling impedance refer to the block photographs). Both sides of A.C conducted interfere emission, the relative the interface cables ANSI C63.4: 2014 c 	e impedance stat ovides a 50ohm neasuring equipm ces are also conne ISN that provides e with 50ohm terr diagram of the . line are checked nce. In order to five positions of equips must be chang	pilization network /50uH coupling ent. ected to the main s a 50ohm/50uH nination. (Please test setup and ed for maximum nd the maximum ipment and all o jed according to			

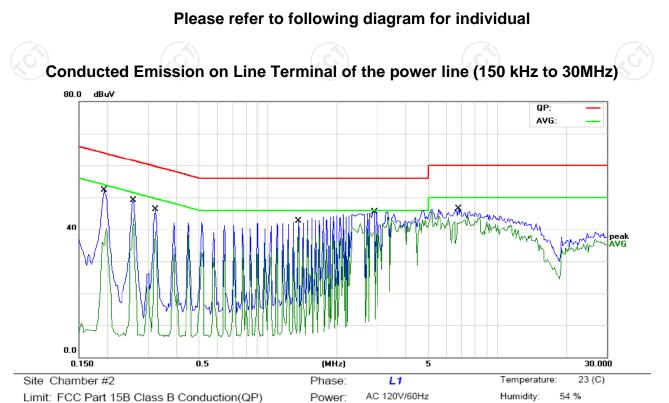
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6.2.1. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCS30	100139	Aug. 11, 2017				
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017				
Coax cable	тст	CE-05	📎 N/A	Aug. 11, 2017				
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).

6.2.2. Test data



Report No.: TCT160905E021

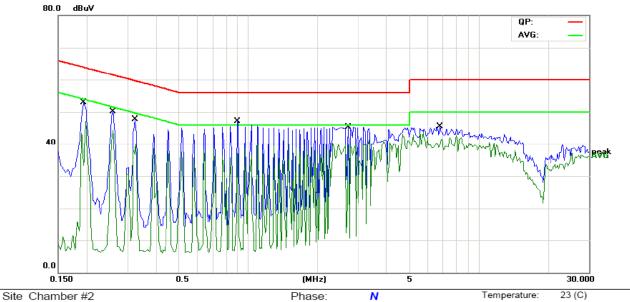
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1930	39.27	11.47	50.74	63.90	-13.16	QP	
2		0.1930	29.99	11.47	41.46	53.90	-12.44	AVG	
3		0.2594	36.47	11.44	47.91	61.45	-13.54	QP	
4		0.2594	29.34	11.44	40.78	51.45	-10.67	AVG	
5		0.3219	33.66	11.41	45.07	59.66	-14.59	QP	
6		0.3219	26.04	11.41	37.45	49.66	-12.21	AVG	
7		1.3569	29.68	11.38	41.06	56.00	-14.94	QP	
8		1.3569	23.95	11.38	35.33	46.00	-10.67	AVG	
9		2.9038	32.27	11.38	43.65	56.00	-12.35	QP	
10	*	2.9038	28.22	11.38	39.60	46.00	-6.40	AVG	
11		6.7813	32.76	10.91	43.67	60.00	-16.33	QP	
12		6.7813	27.71	10.91	38.62	50.00	-11.38	AVG	

Note:

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 Page 11 of 40

Humidity:

54 %



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

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

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No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1930	39.63	11.47	51.10	63.90	-12.80	QP	
2		0.1930	30.62	11.47	42.09	53.90	-11.81	AVG	
3		0.2594	39.20	11.44	50.64	61.45	-10.81	QP	
4		0.2594	30.73	11.44	42.17	51.45	-9.28	AVG	
5		0.3219	35.09	11.41	46.50	59.66	-13.16	QP	
6		0.3219	28.74	11.41	40.15	49.66	-9.51	AVG	
7		0.9039	34.57	11.22	45.79	56.00	-10.21	QP	
8		0.9039	26.37	11.22	37.59	46.00	-8.41	AVG	
9		2.7125	32.52	11.44	43.96	56.00	-12.04	QP	
10	*	2.7125	27.08	11.44	38.52	46.00	-7.48	AVG	
11		6.7852	30.65	10.91	41.56	60.00	-18.44	QP	
12		6.7852	23.91	10.91	34.82	50.00	-15.18	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 $(dB\mu V)$ - Limits $(dB\mu V)$ 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:	ANSI C63.10:2013 and 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 v03r05. 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	Agilent	N9020A	MY49100060	Aug. 12, 2017
	RF cable	тст	RE-06	N/A	Aug. 12, 2017
	Antenna Connector	ТСТ	RFC-01	N/A	Aug. 12, 2017

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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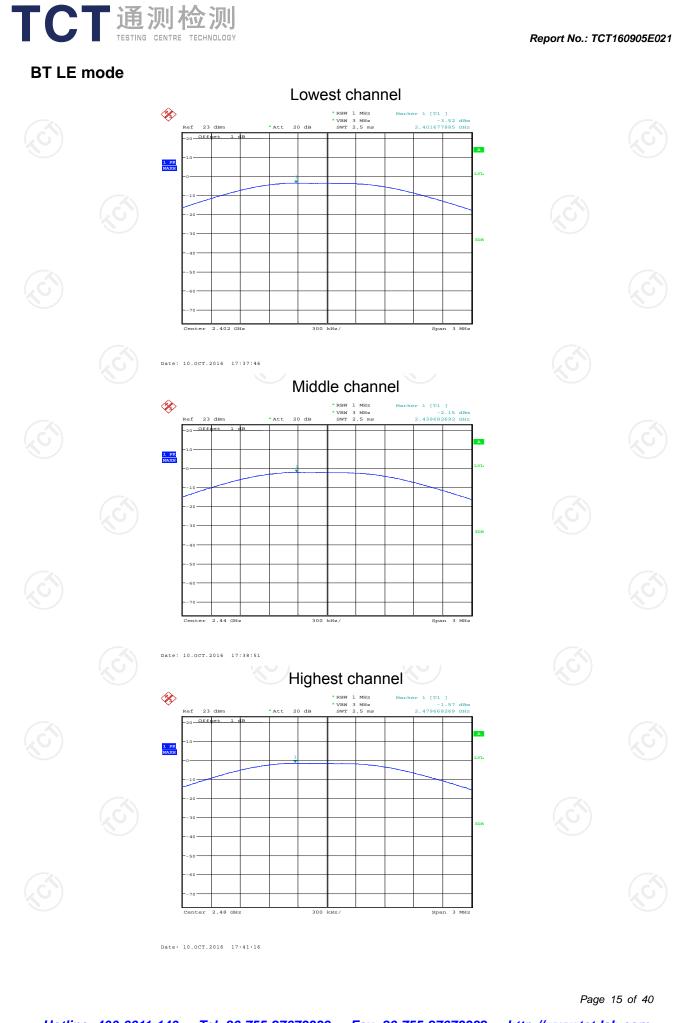
6.3.3. Test Data

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BT LE mode							
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result				
Lowest	-3.52	30.00	PASS				
Middle	-2.15	30.00	PASS				
Highest	-1.57	30.00	PASS				

Test plots as follows:

	ots as follow							
<u>Hotlin</u>	e: 400-6611	-140 Tel: 8	86-755-27673	3339 Fax:	<u>86-755-2767</u>	'3332 http	Page <mark>://www.tct-la</mark>	14 of 40 ab.com



6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement: Test Method:	FCC Part15 C ANSI C63.10:2				N.
	ANSI C63.10:2	012 and KDD			
1			558074		
Limit:	>500kHz				
Test Setup:			EUT		
	Spectrum Analyze		201		2
Test Mode:	Refer to item 4.1				
Test Procedure:	 2. The testing to DTS D01 M 3. Set to the m EUT transm 4. Make the management of the test of te	leas. Guidanc follows FCC K leas. Guidanc aximum powe nit continuousl easurement w bandwidth (RB width (VBW) = e measuremen than 500 kHz.	e v03r05. DB Publicate e v03r05. r setting and y. ith the spec W) = 100 kl = 300 kHz. I nt. The 6dB	tion No. 558 d enable the trum analyze Hz. Set the n order to m bandwidth n	074 er's ake
Test Result:	PASS	()			6

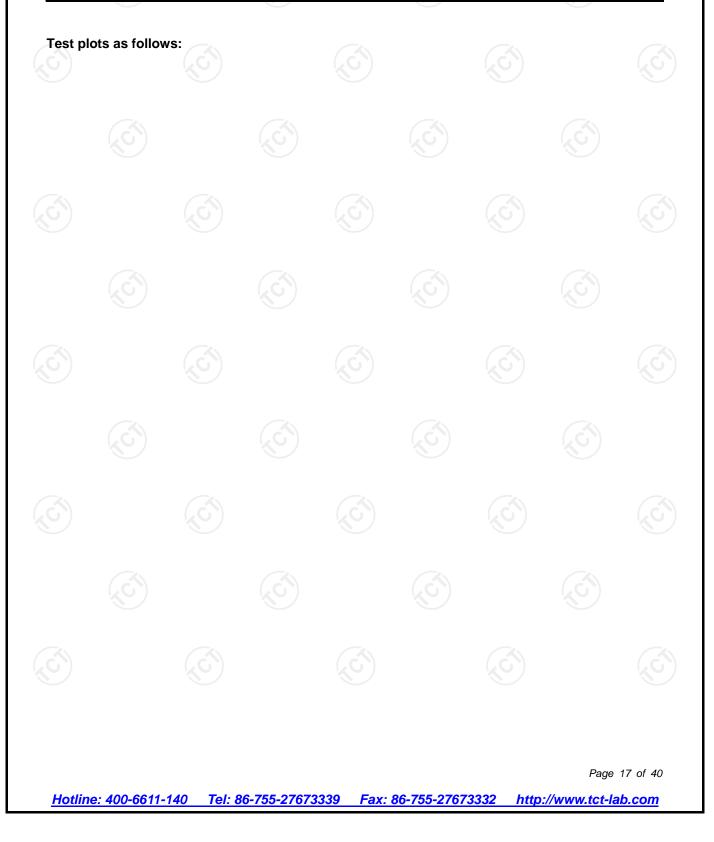
6.4.2. Test Instruments

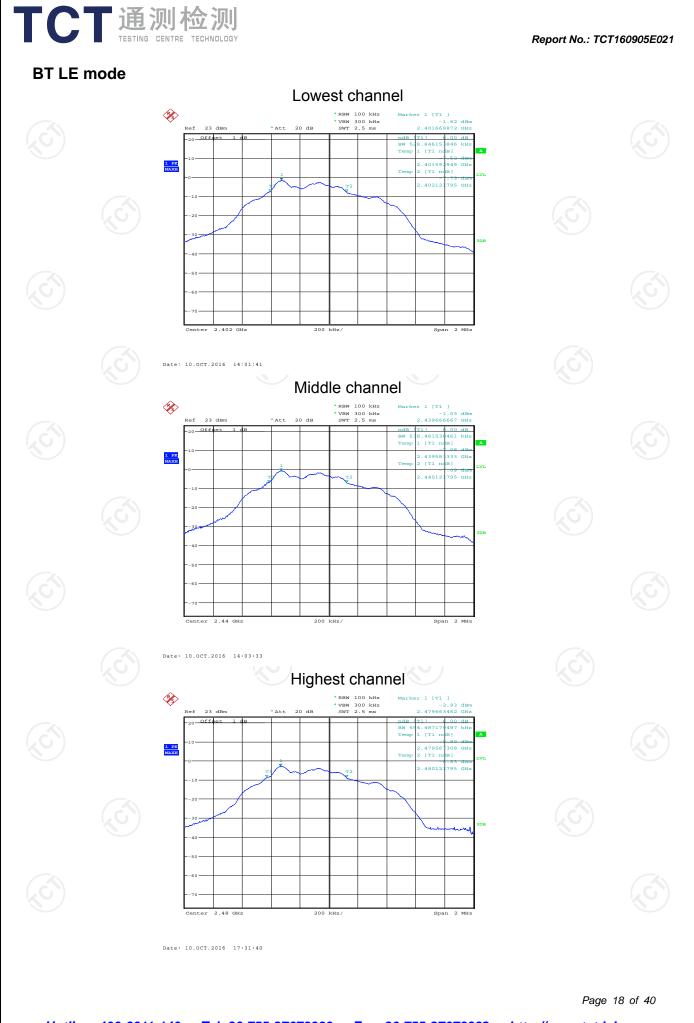
	RF Test Room								
	Equipment	Manufacturer	Model	Serial Number	Calibration Due				
6	Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017				
	RF cable	ТСТ	RE-06	N/A	Aug. 12, 2017				
	Antenna Connector	тст	RFC-01	N/A	Aug. 12, 2017				

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

6.4.3. Test data

	Test channel	6dB Emission Bandwidth (kHz)					
(iest channel	BT LE mode	Limit	Result			
0	Lowest	528.85	>500k	J.			
	Middle	538.46	>500k	PASS			
	Highest	554.49	>500k				





Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and 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:	 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05 2. 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. 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) 5. 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. 6. Measure and record the results in the test report.
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017			
RF cable	О тст	RE-06	N/A	Aug. 12, 2017			
Antenna Connector	ТСТ	RFC-01	N/A	Aug. 12, 2017			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

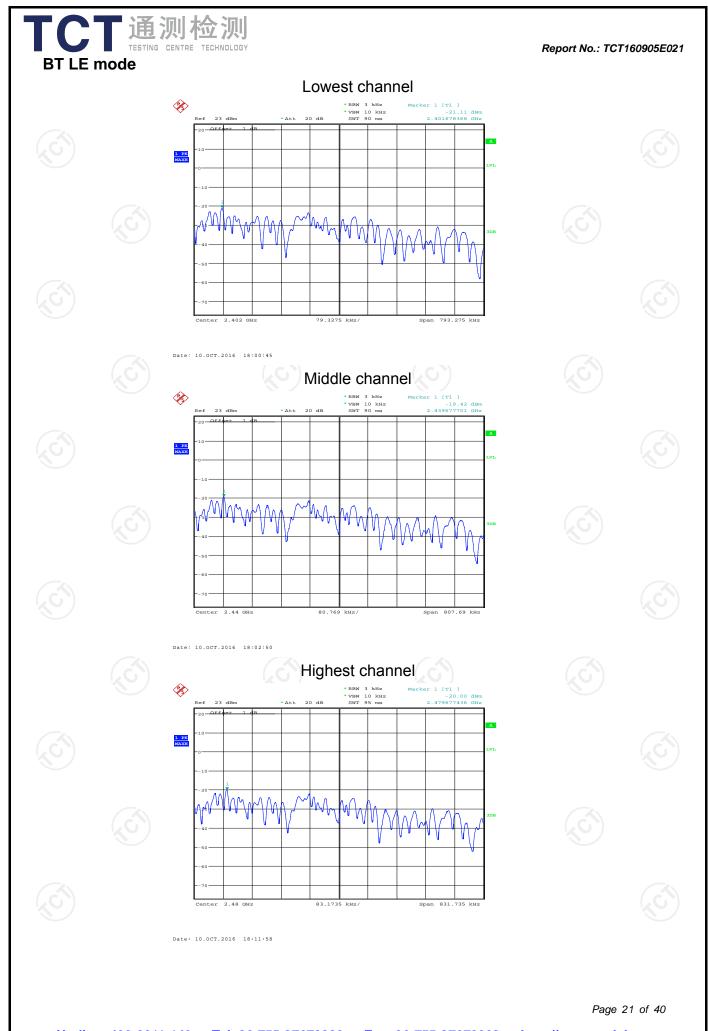


6.6.2. Test data

	Test channel	Power Spectral Density (dBm/3kHz)					
3	Test channel	BT LE mode	Limit	Result			
	Lowest	-21.11	8 dBm/3kHz				
	Middle	-19.42	8 dBm/3kHz	PASS			
	Highest	-20.00	8 dBm/3kHz				

Test plots as follows:

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							Paga	20 of 40
<u>Hotlin</u>	ne: 400-6611	-140 Tel: 8	<u>86-755-2767:</u>	<u>3339 Fax:</u>	<u>86-755-2767</u>	<mark>73332 http</mark>	Page ://www.tct-la	



6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

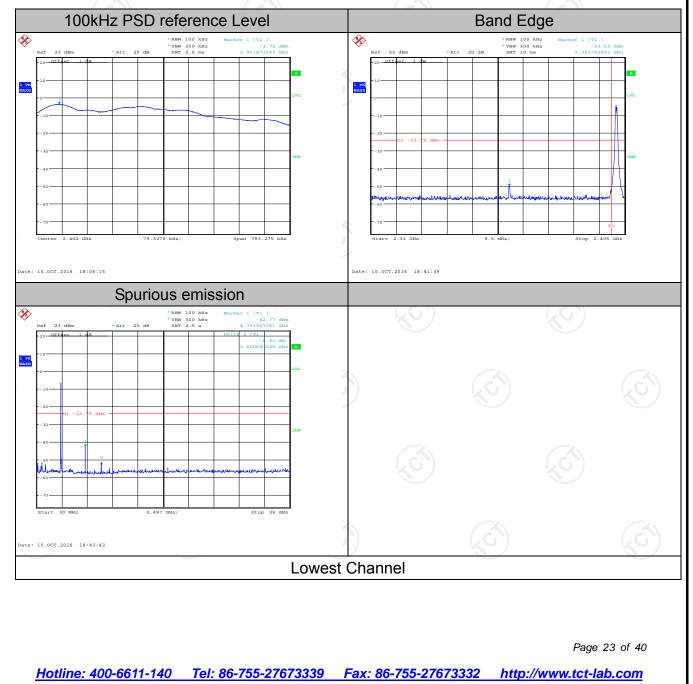
Test Requirement:	FCC Part15 C Section 15.2	247 (d)	
Test Method:	ANSI C63.10:2013 and KD	B558074	Ć
Limit:	In any 100 kHz bandwid frequency band, the er non-restricted bands shall 30dB relative to the maxim RF conducted measurem which fall in the restricted 15.205(a), must also comp limits specified in Section 1	missions which fall be attenuated at leas num PSD level in 10 nent and radiated e bands, as defined ir oly with the radiated	in the at 20 dB / 0 kHz by missions n Sectior
Test Setup:		- <u>-</u> ()
	Spectrum Analyzer	EUT	
Test Mode:	Refer to item 4.1		
Test Procedure:	 The testing follows FCC D01 DTS Meas. Guidar The RF output of EUT w analyzer by RF cable at was compensated to the measurement. Set to the maximum pow EUT transmit continuou Set RBW = 100 kHz, VB Unwanted Emissions m bandwidth outside of the shall be attenuated by a maximum in-band peak maximum peak conduct used. If the transmitter of power limits based on th a time interval, the atter paragraph shall be 30 d 15.247(d). Measure and record the The RF fundamental free against the limit line in the 	nce v03r05. ras connected to the s nd attenuator. The pa e results for each ver setting and enable isly. W=300 kHz, Peak D heasured in any 100 k e authorized frequent at least 20 dB relative to PSD level in 100 kH ted output power pro- complies with the cor ne use of RMS average nuation required under IB instead of 20 dB p results in the test rep quency should be exc	spectrum ath loss e the etector. KHz cy band e to the z when cedure is nducted ging over er this er port. cluded

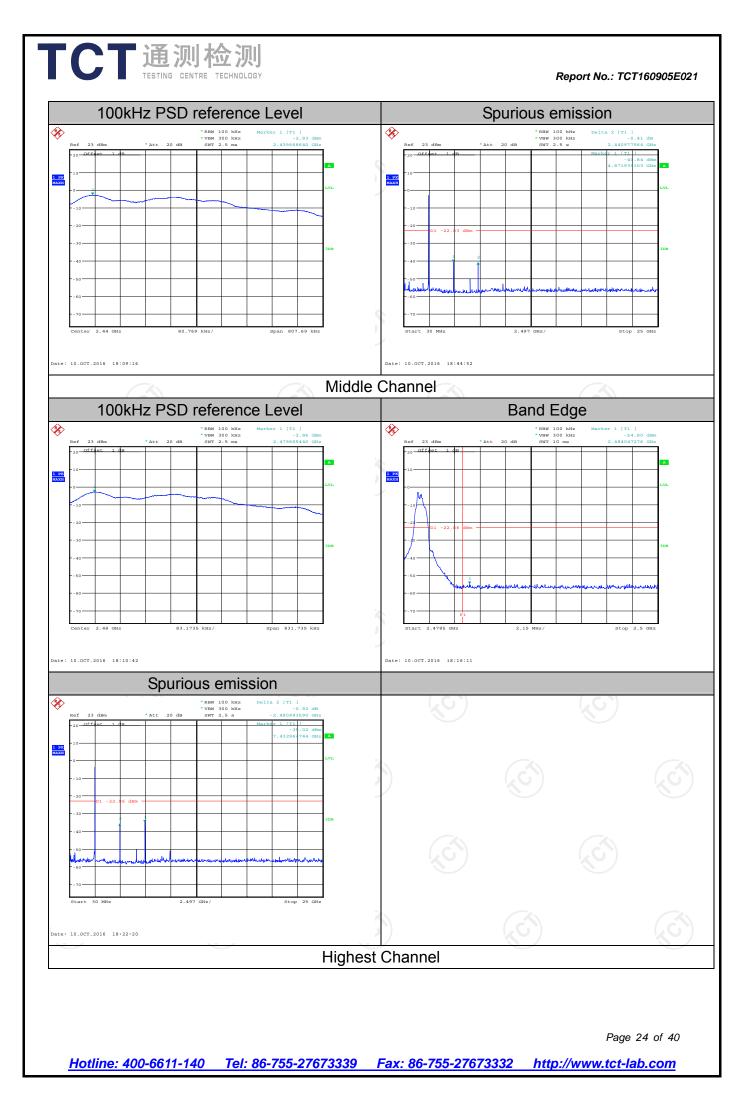
6.7.2. Test Instruments

	RF Test Room													
Equipment	Manufacturer	Model	Serial Number	Calibration Due										
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017										
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017										
RF cable	тст	RE-06	N/A	Aug. 12, 2017										
Antenna Connector	ТСТ	RFC-01	N/A	Aug. 12, 2017										

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



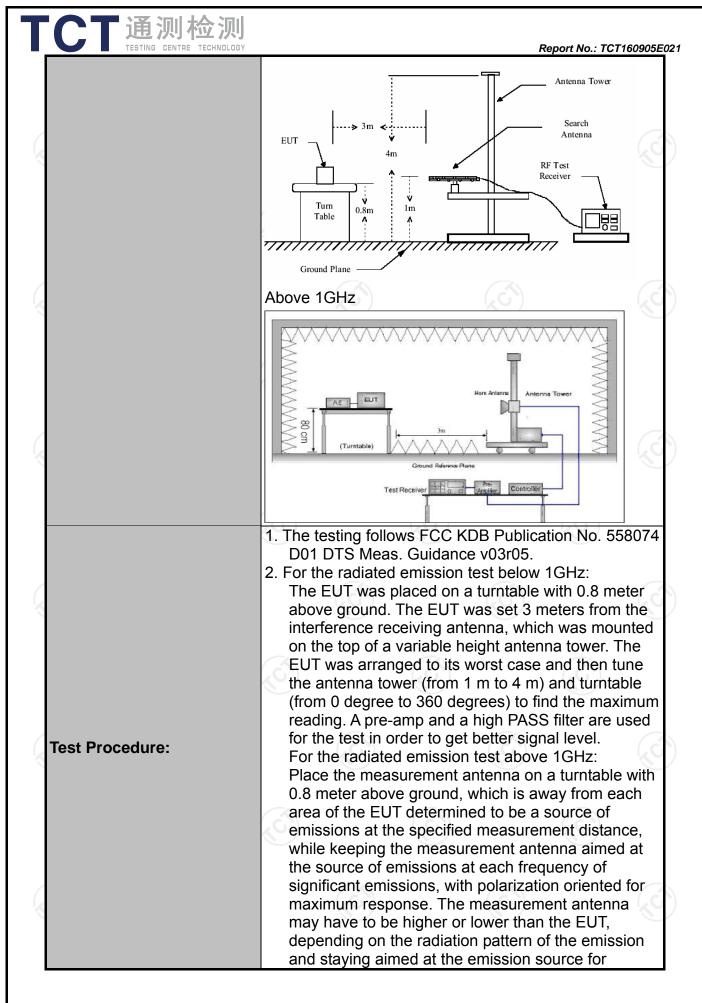


6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

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Test Requirement:	FCC Part15	C Section	15.209			<u> </u>			
Test Method:	ANSI C63.4:	2014 and	ANSI C6	3.10: 20	13				
Frequency Range:	9 kHz to 25 (GHz			C	<i>(</i>)			
Measurement Distance:	3 m	X	9		R				
Antenna Polarization:	Horizontal &	Vertical							
Operation mode:	Refer to item	ı 4.1	(.C1)	(
	Frequency	Detector	RBW	VBW		Remark			
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-peal Quasi-peal		1kHz 30kHz		<u>si-peak Value</u> si-peak Value			
	30MHz-1GHz	Quasi-peal	100KHz	300KHz	Quas	i-peak Value			
	Above 1GHz	Peak	1MHz	3MHz		eak Value			
		Peak	1MHz	10Hz	Ave	erage Value			
	Frequen	су	Field Stre (microvolts	-		asurement nce (meters)			
Limit:	0.009-0.4		2400/F(I	KHz)	300				
	0.490-1.7	1	24000/F((KHz)	30				
	1.705-3		30		30				
	<u>30-88</u> 88-216		100 150		3				
	216-96		200		3				
	Above 9		500			3			
		5)		$\langle O \rangle$					
	Frequency		d Strength ovolts/meter)	Measurer Distand (meter	се	Detector			
	Above 1011	_ (500	3	6	Average			
	Above 1GHz	2	5000		3 Peak				
Test setup:	For radiated	emissions	s below 30)MHz		Computer			
		G	round Plane		R	eceiver			



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	 receiving the maximum signal. The final 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: Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; 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. WBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the
	transmitter is on and is transmitting at its maximum
Test mode:	power control level for the tested mode of operation. Refer to section 4.1 for details
	PASS



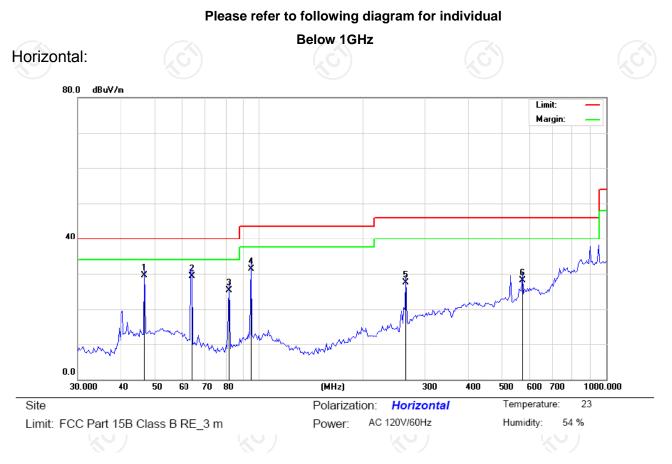
6.8.2. Test Instruments

	Radiated Em	ission Test Site	e (966)			
Name of Equipment	Manufacturer	nufacturer Model		Calibration Due		
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017		
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017		
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017		
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017		
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017		
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017		
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017		
Antenna Mast	CCS	CC-A-4M	N/A	N/A		
Coax cable	ТСТ	RE-low-01	N/A	Aug. 11, 2017		
Coax cable	тст	RE-high-02	N/A	Aug. 11, 2017		
Coax cable	тст	RE-low-03	N/A	Aug. 11, 2017		
Coax cable	тст	RE-high-04	N/A	Aug. 11, 2017		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

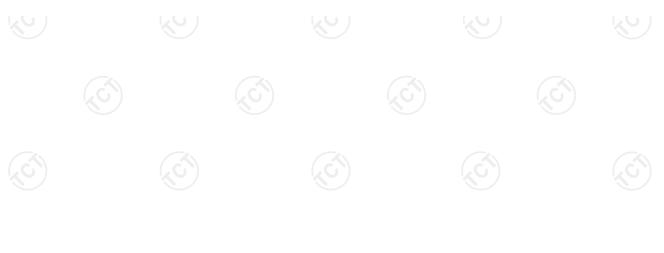
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.8.3. Test Data



No. N	/lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	r	46.7077	39.60	-10.02	29.58	40.00	-10.42	QP		0	
2		64.0800	41.40	-12.01	29.39	40.00	-10.61	QP		0	
3		81.9477	39.70	-14.46	25.24	40.00	-14.76	QP		0	
4		94.9788	42.20	-10.97	31.23	43.50	-12.27	QP		0	
5	2	264.9710	36.00	-8.56	27.44	46.00	-18.56	QP		0	
6	5	73.9882	28.90	-0.71	28.19	46.00	-17.81	QP		0	



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Vertical:

5

6

264.9710

531.2910

35.10

40.00

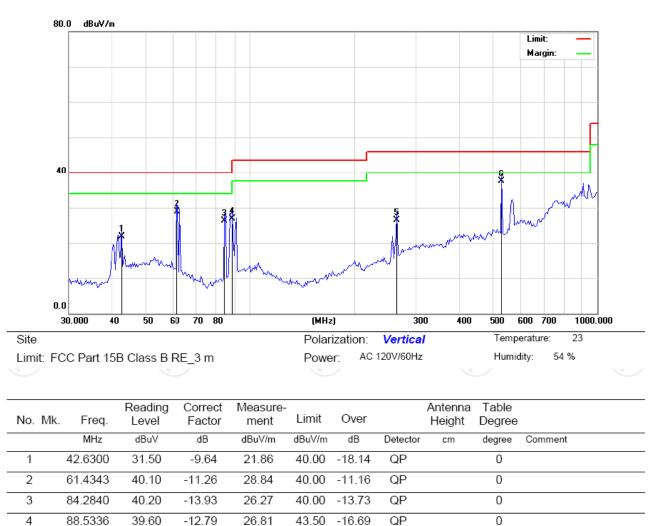
-8.56

-2.48

26.54

37.52

通测检测 TESTING CENTRE TECHNOLOGY



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

46.00

46.00

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

-19.46

-8.48

QP

QP

0

0

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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	46.21		-8.27	37.94		74	54	-16.06
4804	Н	45.32		0.66	45.98		74	54	-8.02
7206	Н	36.51		9.5	46.01		74	54	-7.99
	Н								
	(G)				(G		(\mathbf{c})	
2390	V	45.77		-8.27	37.5		74	54	-16.5
4804	V	44.3		0.66	44.96		74	54	-9.04
7206	V	37.04		9.5	46.54		74	54	-7.46
	V			(×		-+		
GT)		(\mathcal{O})	•		5)	•	(\mathcal{O})		22)
Middle cha	nnel [.] 244()MHz		9					J.

Middle channel: 2440MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	ZGH)	45.85	-420	0.99	46.84	<u>, C -</u>	74	54	-7.16
7320	Y	36.94		9.87	46.81		74	54	-7.19
	Н								
4880	V	46.1		0.99	47.09	[74	54	-6.91
7320	V	37.33		9.87	47.03		74	54	-6.8
	V								

High channel: 2480 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	Н	45.78		-7.83	37.95		74	54	-16.05
4960	Н	44.65		1.33	45.98		74	54	-8.02
7440	Н	36.5		10.22	46.72		74	54	-7.28
)	Н			X)		· · · · ·		
0.400 5		10.01	1			Γ		1	45.00
2483.5	V	46.21		-7.83	38.38		74	54	-15.62
4960	V	44.79		1.33	46.12		74	54	-7.88
7440	V	37.35	-+20	10.22	47.57	$\langle G^{2} \rangle$	74	54	-6.43
	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.

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

