

Global United Technology Services Co., Ltd.

Report No.: GTS201902000076F01

FCC REPORT

Dinsafer Innovation Co., Ltd. **Applicant:**

Room 402/403, Floor 4, Area B, Unit B, West Silicon Valley. **Address of Applicant:**

No. 5010, Baoan Avenue, Hangcheng Street, Baoan District,

Shenzhen, 518128, China

Dinsafer Innovation Co., Ltd. Manufacturer:

Address of Room 402/403, Floor 4, Area B, Unit B, West Silicon Valley,

No. 5010, Baoan Avenue, Hangcheng Street, Baoan District, Manufacturer:

Shenzhen, 518128, China

Equipment Under Test (EUT)

Product Name: Wireless Smart Plug

Model No.: DSPA4(DSP *4,*=A-Z)(DSP A*,*=1-9)

FCC ID: 2ASON-DSPA4

FCC CFR Title 47 Part 15 Subpart C Section 15.231 **Applicable standards:**

Date of sample receipt: March 01, 2019

Date of Test: March 04-27, 2019

Date of report issued: March 28, 2019

PASS * Test Result:

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
01	March 28, 2019	Original

Prepared By:	Bill. your	Date: 	March 28, 2019
	Project Engineer		
Check By:	an inson s	Date:	March 28, 2019

Reviewer



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Test Summary 4

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203	Pass
Conduction Emission	15.207	Pass
Field strength of the Fundamental Signal	15.231 (b)	Pass
Spurious Emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Dwell Time	15.231 (a)(1)	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 **Measurement Uncertainty**

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.54dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 5.34dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 5.34dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.44dB	(1)
Note (1): The measurement u	ncertainty is for coverage factor of	of k=2 and a level of confidence of	f 95%.



5 General Information

5.1 General Description of EUT

Product Name:	Wireless Smart Plug
Model No.:	DSPA4(DSP *4,*=A-Z)(DSP A*,*=1-9)
Test Model No:	DSPA4
Remark: All above models are	identical in the same PCB layout, interior structure and electrical circuits.
The only difference is model n	ame for commercial purpose.
Serial No.:	2019-DSPA4
Test sample(s) ID:	GTS201902000076-1
Sample(s) Status:	Engineer sample
Hardware Version:	K001-F4-V1.1
Software Version:	K001-F4_V1.0.0_2019.01.11_RS
Operation Frequency:	433.92MHz
Modulation technology:	FSK
Antenna Type:	Integral antenna
Antenna gain:	3.0dBi(declare by applicant)
Power supply:	AC 120V, 60Hz



5.2 Test mode

	Transmitting mode	Keep the EUT in transmitting mode.
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Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which only the worst case was shown in this test report and defined as follows:

	Axis	Χ	Υ	Z
433.92MHz	Field Strength(dBuV/m)	93.85	95.94	94.37

5.3 Description of Support Units

None.

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

<u> </u>	b rest instruments list					
Radia	ated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019
21	Breitband horn antenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019



Cond	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019	
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019	
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019	
5	Coaxial Cable	GTS	N/A	GTS227	June. 27 2018	June. 26 2019	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019	
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019	

RF C	RF Conducted:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019	
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019	
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40- 880	GTS572	June. 27 2018	June. 26 2019	

Gene	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019	
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019	



7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 3.0dBi.





7.2 Conducted Emissions

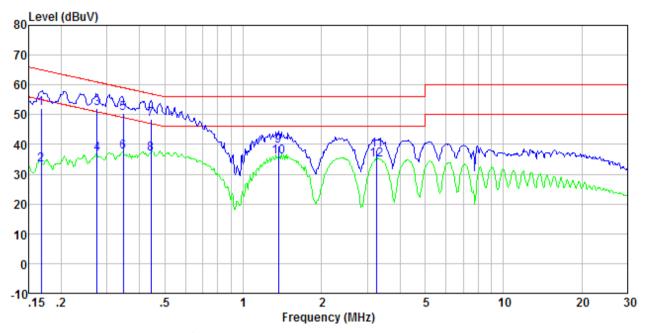
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Limit:	Frequency range (MHz)	Limit (c	BuV)			
	Troquonoy rango (Wiriz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane					
	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remark E U T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

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Measurement data

Mode:Transmitting modeTest by:BillTemp./Hum.(%H):26℃/56%RHProbe:Line

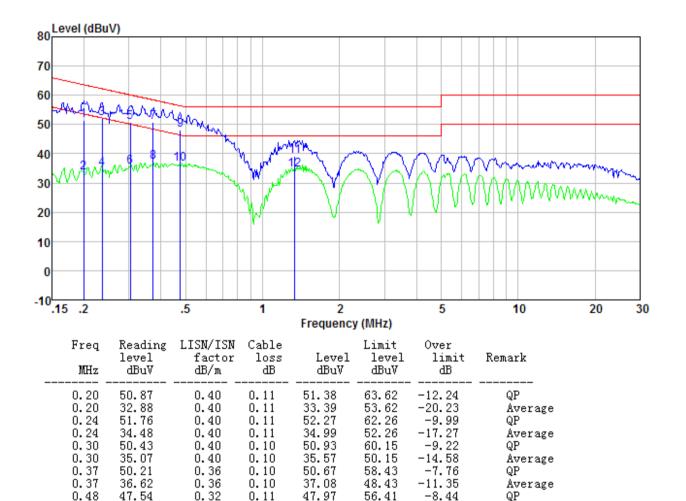


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.17	51.70	0.40	0.09	52.19	65.08	-12.89	QP
0.17	32.66	0.40	0.09	33.15	55.08	-21.93	Average
0.27	51.57	0.40	0.10	52.07	60.98	-8.91	QP
0.27	36.31	0.40	0.10	36.81	50.98	-14.17	Average
0.35	49.94	0.38	0.10	50.42	59.05	-8.63	QP
0.35	37.09	0.38	0.10	37.57	49.05	-11.48	Average
0.44	47.94	0.34	0.11	48.39	57.02	-8.63	QP
0.44	36.44	0.34	0.11	36.89	47.02	-10.13	Average
1.37	39.11	0.20	0.16	39.47	56.00	-16.53	QP
1.37	35.54	0.20	0.16	35.90	46.00	-10.10	Average
3.26	37.83	0.20	0.19	38.22	56.00	-17.78	QP
3.26	34.56	0.20	0.19	34.95	46.00	-11.05	Äverage

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Mode:Transmitting modeTest by:BillTemp./Hum.(%H):26 ℃/56%RHProbe:Neutral



Notes:

0.48

1.34

1.34

36.16

38.75

34.03

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

0.11

0.16

0.16

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

46.41

56.00

46.00

-9.82

-16.89

-11.61

Average

Average

QΡ

3. Final Level =Receiver Read level + LISN Factor + Cable Loss

0.32

0.20

0.20

4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

36.59

39.11

34.39

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7.3 Radiated Emission Method

7.3	Radiated Emission Wethod								
	Test Requirement:	FCC Part15 C Section 15.231 (b)& Section 15.209							
	Test Method:	ANSI C63.10:2013							
	Test Frequency Range:	9kHz to 5000MHz							
	Test site:	Measurement Distar	nce: 3m						
	Receiver setup:	Frequency	Dete	ector	RBW	VB	W	Value	
		9KHz-150KHz	PK,A\	/,QP	200Hz	600	Hz	PK,AV,QP	
		150KHz-30MHz	PK,A\	/,QP	9KHz	30K	Hz	PK,AV,QP	
		30MHz-1GHz	Quasi	-peak	120KHz	300k	Ήz	Quasi-peak	
		Above 1GHz	Peak		1MHz	3MI	Ηz	Peak	
		Above 1GHz	Pe	ak	1MHz	10H	Ηz	Average	
	Limit:	Frequency		Limit	(dBuV/m @	3m)		Remark	
	(Field strength of the	433.92MHz			100.83 80.83			Peak Value verage Value	
	fundamental signal)				00.03				
	Limit:	Fundamental Frequency Field Strength of					F16	eld Strength of Unwanted	
	(Spurious Emissions)	(MHz)			undamental rovolts/met			Emissions	
		40.66.40.70		(IIIIC			(microvolts/meter)		
		40.66-40.70 70-130			1,000 500			100 50	
		130-174		50	00 to 1,500**		50 to 1,50**		
		174-260			1,500		1,50		
		260-470		1,5	500 to 5,000**		1	,50 to 5,00**	
		Above 470			5,000			5,00	
		Frequency			Class B	(dBuV	/m @	23m)	
		(MHz)			Peak			Average	
		Above 1000 Or The maximum pe		unwonto	74	lovoli	20	dP below the	
		maximum permitted to strength.							
	Test setup:	Below 30MHz							
							_		
		= *************************************	11111111111	1111111111	***************************************	······	4		
			< 31	n >√	·»;		3		
		Turn Tables EUTs							
		· ·	T	-1>	Υ	_	7		
		< 80cm >- < 1m > -							
		Test /	Antenna	Receiver	Preamplifier		_		
		Below 1GHz							
		I							



Report No.: GTS201902000076F01 Test Antenna Turn Table < 80cm Preamplifier+ Above 1GHz Test Antenna < 1m ... 4m > Turn Table <150cm; Receiver+ Preamplifier-Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test results: **Pass**



Measurement data:

7.3.1 Field Strength of The Fundamental Signal

Peak value:

Fraguenay	Read	Antenna	Cable	Preamp	Lovel	Limit Line	Over	
Frequency	Level	Factor	Loss	Factor	Level		Limit	polarization
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
433.92	114.38	16.06	3.02	37.52	95.94	100.83	-4.89	Horizontal
433.92	111.19	16.06	3.02	37.52	92.75	100.83	-8.08	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.92	95.94	-20.92	75.02	80.83	-5.81	Horizontal
433.92	92.75	-20.92	71.83	80.83	-9.00	Vertical

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. Average value=Peak value + Duty cycle factor



7.3.2 Spurious Emissions

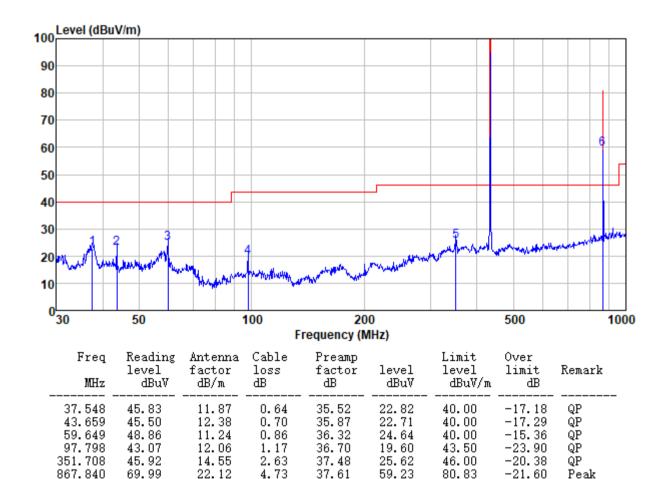
Measurement data:

9 kHz ~ 30 MHz

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

Below 1GHz:

Mode:	Transmitting mode	Test by:	Bill
Temp./Hum.(%H):	26℃/56%RH	Polarization:	Horizontal

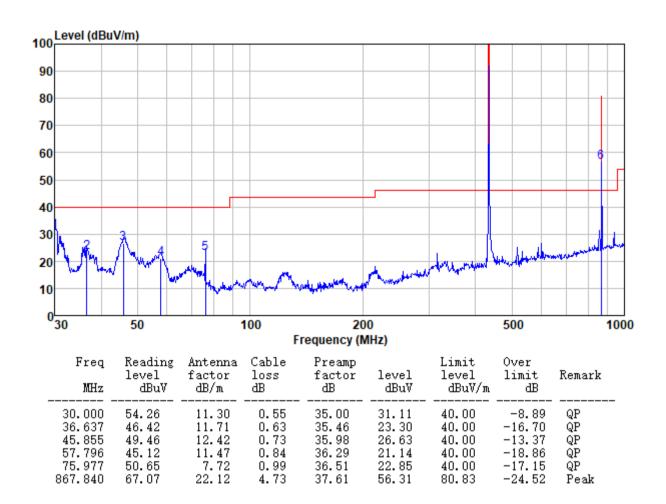


Average value:

Frequency (MHz)	Peak Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
867.840	59.23	-20.92	38.31	60.83	-22.52	Horizontal



Mode:Transmitting modeTest by:BillTemp./Hum.(%H):26 ℃/56%RHPolarization:Vertical



Average value:

Frequency (MHz)	Peak Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
867.840	56.31	-20.92	35.39	60.83	-25.44	Vertical

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Above 1G:

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1735.68	67.71	25.05	4.82	34.00	63.58	80.83	-17.25	Vertical
2169.60	65.42	27.74	5.15	34.27	64.04	80.83	-16.79	Vertical
2603.52	62.15	27.82	5.58	33.78	61.77	80.83	-19.06	Vertical
1735.68	69.34	25.05	4.82	34.00	65.21	80.83	-15.62	Horizontal
2169.60	67.78	27.74	5.15	34.27	66.40	80.83	-14.43	Horizontal
2603.52	63.21	27.82	5.58	33.78	62.83	80.83	-18.00	Horizontal

Average value:

71101ago Talac	<u> </u>					
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1736.00	63.58	-20.92	42.66	60.83	-18.17	Vertical
2170.00	64.04	-20.92	43.12	60.83	-17.71	Vertical
2604.00	61.77	-20.92	40.85	60.83	-19.98	Vertical
1736.00	65.21	-20.92	44.29	60.83	-16.54	Horizontal
2170.00	66.40	-20.92	45.48	60.83	-15.35	Horizontal
2604.00	62.83	-20.92	41.91	60.83	-18.92	Horizontal

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. Average value=Peak value + Duty cycle factor

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7.4 20dB Occupy Bandwidth

	and occupy name and				
Test Requirement:	FCC Part15 C Section 15.231 (c)				
Test Method:	ANSI C63.10:2013				
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

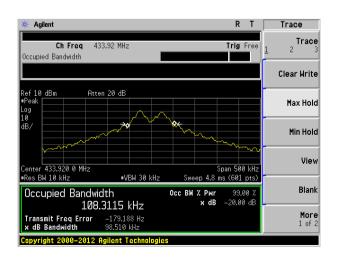
Measurement Data

Test Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Result
433.92	0.099	1.085	Pass

Note: Limit= Fundamental frequency×0.25%

433.92×0.25%=1.085MHz

Test plot as follows:





7.5 Dwell Time

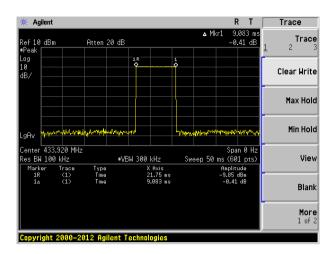
Test Requirement:	FCC Part15 C Section 15.231 (a)(1)	
Test Method:	ANSI C63.10:2013	
Receiver setup:	RBW=100KHz, VBW=100KHz, span=0Hz, detector: Peak	
Limit:	Not more than 5 seconds	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

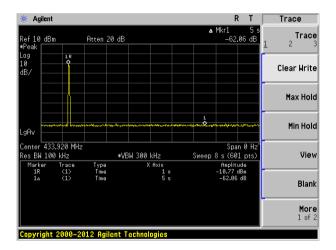
Measurement data:

Frequency (MHz)	Duration of each TX (second)	Limit (second)	Result
433.92	0.009	<5.0	Pass



Test plot as follows:







7.6 Duty Cycle

• •		
Test Requirement:	FCC Part15 C Section 15.231	
Test Method:	ANSI C63.10:2013	
Receiver setup:	RBW=100KHz, VBW=100KHz, span=0Hz, detector: Peak	
Limit:	No dedicated limit specified in the Rules.	
Test Procedure:	Place the EUT on the table and set it in transmitting mode.	
	2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.	
	3. Set centre frequency of spectrum analyzer=operating frequency.	
	4. Set the spectrum analyzer as RBW=100kHz, VBW=100KHz, Span=0Hz, Adjust Sweep=100ms to obtain the "worst-case" pulse on time	
	5. Repeat above procedures until all frequency measured was complete.	
Test setup:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	



Measurement data:

Calculate Formula: Duty cycle factor =20 log(Duty cycle)

Duty cycle=on time/0.1 seconds or period, whichever is less

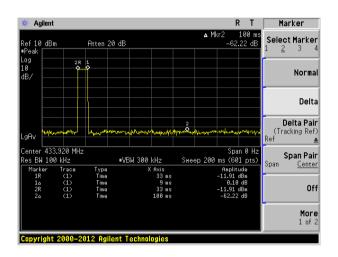
Test data: T on time =9(ms)

T period >100(ms)

Duty cycle=9/100=9%

Duty cycle factor =20 log(0.09)=-20.92

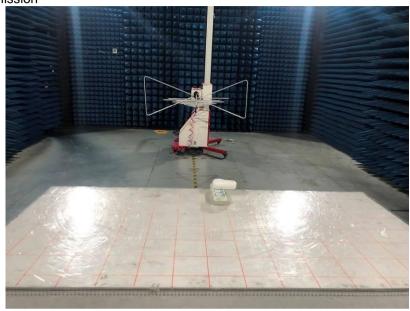
Test plot as follows:

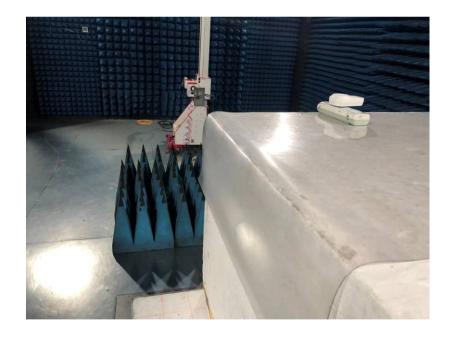




8 Test Setup Photo

Radiated Emission







Conduction Emission





9 EUT Constructional Details

















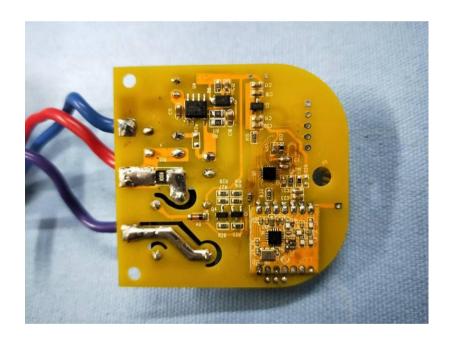
















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