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TEST REPORT

Application No.:	KSCR2409001930AT	
FCC ID:	2ATCK-TMSS9B4	
IC:	25126-TMSS9B4	
Name of Testing Laboratory preparing the Report:	Compliance Certification Services (Kunshan) Inc.	
Address of Testing Laboratory preparing the Report:	No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.	
Applicant:	Baolong Huf Shanghai Electronics Co., Ltd.	
Address of Applicant:	1st Floor, Building 5, 5500 Shenzhuan Rd, Songjiang, Shanghai	
Manufacturer:	Baolong Huf Shanghai Electronics Co., Ltd.	
Address of Manufacturer:	1st Floor, Building 5, 5500 Shenzhuan Rd, Songjiang, Shanghai	
Factory:	Baolong Huf Shanghai Electronics Co., Ltd.	
Address of Factory:	1st Floor, Building 5, 5500 Shenzhuan Rd, Songjiang, Shanghai	
Equipment Under Test (EUT):		
EUT Name:	TPMS SENSOR	
Model No.:	TMSS9B4	
Trade Mark:	BH SENS	
Standard(s) :	47 CFR Part 15, Subpart C 15.231	
	RSS-210 issue 11 June 25,2024	
	RSS-Gen Issue 5, April 2018, Amendment 2	
Date of Receipt:	2024-09-27	
Date of Test:	2024-10-12 to 2024-10-22	
Date of Issue:	2024-10-23	
Test Result:	Pass*	

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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Revision Record				
Version	Description	Date	Remark	
00	Original	2024-10-23	/	

Authorized for issue by:	
Tested By	Maker Qi
	Maker_Qi/Project Engineer
Approved By	Terry Hon
	Terry Hou /Reviewer



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2 Test Summary

Radio Spectrum Technical Requirement					
ltem	FCC Requirement	IC Requirement	Method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Section 8.1.3	N/A	Customer Declaration	

N/A: Not applicable

Radio Spectrum Matter Part					
Item	FCC Requirement	IC Requirement	Method	Result	
20dB Bandwidth	47 CFR Part 15, Subpart C 15.231(c)	-	ANSI C63.10 (2020) Section 6.9	Pass	
Dwell Time (15.231(e))	47 CFR Part 15, Subpart C 15.231(e)	RSS-210 A1.2	ANSI C63.10 (2020) Section 7.8.4	Pass	
Field Strength of the Fundamental Signal (15.231(e))	47 CFR Part 15, Subpart C 15.231(e)	RSS-210 A.1.3 (b)	ANSI C63.10 (2020) Section 6.5	Pass	
Radiated Emissions below 1GHz	47 CFR Part 15, Subpart C 15.231(e) and 15.209	RSS-Gen Section 8.9	ANSI C63.10 (2020) Section 6.4&6.5&6.6	Pass	
Radiated Emissions above 1GHz	47 CFR Part 15, Subpart C 15.231(e) and 15.209	RSS-Gen Section 8.9	ANSI C63.10 (2020) Section 6.6	Pass	
99% Bandwidth	-	RSS-210 A1.4	RSS-Gen Section 6.7	Pass	



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4 General Information

4.1 Details of E.U.T.

	DC 3V by Battery
Power supply:	Battery model:CR2050HT
	Output: DC 3V
Operation Frequency	433.92MHz
Channel Numbers:	1
Modulation Type:	FSK
Antenna Type:	monopole antenna
Transmitter type:	Periodicity

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
SmarTool	/	/	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty	
1	Radio Frequency	8.4 x 10 ⁻⁸	
2	Timeout	2s	
3	Duty Cycle	0.37%	
4	Occupied Bandwidth	3%	
F	DE Dedicted Dever	5.2dB (Below 1GHz)	
5	RF Radiated Power	5.9dB (Above 1GHz)	
		4.2dB (Below 30MHz)	
6	Dedicted Sourious Emission Test	4.5dB (30MHz-1GHz)	
Ö	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)	
		5.4dB (Above 18GHz)	
7	Temperature Test	1°C	
8	Humidity Test	3%	
9	Supply Voltages 1.5%		
10	Time	3%	
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

4.5 Test Facility

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

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Radiate	d Test		•		•	
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/06/2024	08/05/2025
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/19/2024	03/18/2025
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2023	06/28/2025
6	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E006	03/19/2024	03/18/2025
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	08/22/2026
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	04/07/2023	04/06/2025
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/15/2024	01/14/2025
11	Amplifier(18~40GHz)	PANSHAN TECHNOLOGY	LNA180400G40	KSEM038	08/12/2024	08/11/2025
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/12/2024	08/11/2025
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	03/21/2024	03/20/2025
14	Software	Faratronic	EZ_EMC-v 3A1	/	NCR	NCR
15	Software	ESE	E3_V 6.111221a	/	NCR	NCR



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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 Internal Antenna and no consideration of replacement. Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.231(c)
Test Method:	ANSI C63.10 (2013) Section 6.9

Limit:

Frequency range(MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

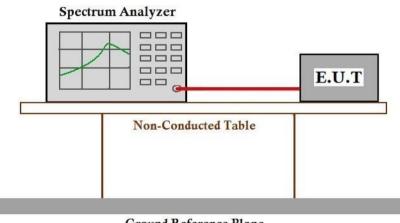
7.1.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	23.3 °C	Humidity:	45.2 % RH	Atmospheric Pressure:	1010	mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data



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7.2 Dwell Time (15.231(e))

Test Requirement	47 CFR Part 15, Subpart C 15.231(e)
Test Method:	ANSI C63.10 (2013) Section 7.8.4
Measurement Distance:	3m

Limit:

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

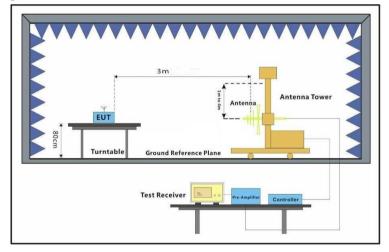
7.2.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.3 °C	Humidity:	45.2 % RH	Atmospheric Pressure:	1010	mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data



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7.3 Field Strength of the Fundamental Signal (15.231(e))

Test Requirement	Field Strength of the Fundamental Signal (15.231(e))
Test Method:	ANSI C63.10 (2013) Section 6.5
Measurement Distance:	3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)
40.66-40.70	1000	100
70-130	500	50
130-174	500 to 1500	50 to 150
174-260	1500	150
260-470	1500 to 5000	150 to 500
Above 470	5000	500

Remark: the emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.3.1 E.U.T. Operation

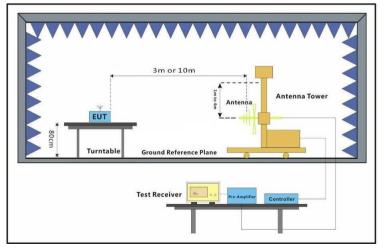
Operating Environment:

Temperature: 23.3 °C Humidity: 45.2 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode

7.3.3 Test Setup Diagram





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7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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.

h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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7.4 Radiated Emissions below 1GHz

Test Requirement	47 CFR Part 15C Section 15.231(e) and 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

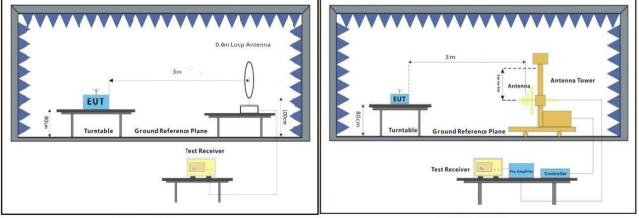
7.4.1 E.U.T. Operation

Operating Environment: Temperature: 23.3 °C Humidity: 45.2 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode

7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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7.5 Radiated Emissions above 1GHz

Test Requirement	47 CFR Part 15C Section 15.231(e) and 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6

Limit:

0.1

For Restricted bands

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For Other bands				
Fundamental Frequency MHz	Field Strength of Fundamental (dBµV/m @ 3 m)	Field Strength of Hasrmonics and Spurious Emissions (dBµV/m @ 3 m)		
40.66 to 40.70	60.00	40.00		
70 to 130	53.98	33.98		
130 to 174	**53.98 to 63.52	33.98 to 43.52		
174 to 260	63.52	43.52		
260 to 470	**63.52 to 73.98	43.52 to 53.98		
Above 470	73.98	53.98		
Detector:	Peak for pre-scan			
	QP for 30MHz to1000 MHz:120 kHz resolution bandwidth			
	Peak for Above 1 GHz: 1 MHz resolu	tion bandwidth		

** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

for the band 130-174 MHz, uV/m at 3 meters = (22.73 x f)-2454.55;

for the band 260-470 MHz, uV/m at 3 meters = (16.67 x f)-2833.33.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The fundamental frequency of the EUT is 433.92 MHz

The limit for average or QP field strength dBuv/m for the fundamental emission= $72.87 \text{ dB}\mu\text{V/m}$ No fundamental is allowed in the restricted bands.



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The limit for average field strength dBuv/m for the spurious emission=52.87 dBuV/m. Spurious in the restricted bands must be less than 60.83 dBuV/m or 15.209, whichever limit permits a higher field strength.

7.5.1 E.U.T. Operation

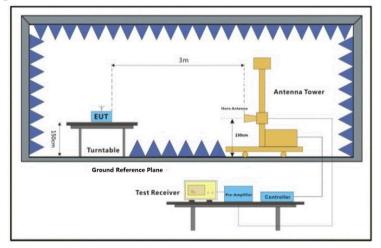
Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode

7.5.3 Test Setup Diagram





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7.5.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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7.6 99% Bandwidth

Test Requirement	RSS-210 A1.4
Test Method:	RSS-Gen February 2021 Amendment 2 Section 6.7

Limit:

Operate frequency	Limit
70MHz to 900MHz	less than or equal to 0.25% of the centre frequency
Above 900MHz	less than or equal to 0.5% of the centre frequency.

7.6.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	23.5 °C	Humidity:	50.2 % RH	Atmospheric Pressure: 10	10 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode

7.6.3 Measurement Procedure and Data



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2409001930AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2409001930AT



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10 Appendix

10.1 Field Strength of the Fundamental Signal

Test channel	Freq. (MHz)	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization	
Channel 1	l 1 433.92	80.18	92.87	-12.69	Peak	Vertical	
		400.00	72.50	92.87	-20.37	Peak	Horizontal
		56.62	72.87	-16.25	AVG	Vertical	
		48.94	72.87	-23.93	AVG	Horizontal	

Ref Level 0.00 dBm RBW 1 MHz Att 10 dB SWT 100 ms VBW 1 MHz SGL 9 1Pk Max 02[1] -0.02 c -10 dBm M1[1] -33.39 dB 57.1333 n -20 dBm -0.02 dBm -0.02 c -0.02 c
SGL
● 1Pk Max -10 dBm M1[1] -33.39 dB 57.1333 n
-10 dBm
6.6333 n -10 dBm M1[1] -33.39 dB 57.1333 n
-10 dBmM1[1] -33.39 dB 57.1333 n
57.1333 n
-20 dBm
-30 dBm M1
-40 dBm
-50 dBm
-60 dBm
Աներ անուններ, անվանությունը հարավել, են է հետում անուններին, են հարավելու է հարավել է հարավել հարավել հարավել հ
-/U dBm
-80 dBm
-90 dBm
CF 433.92 MHz 3001 pts 10.0 ms,
Ready MA

Remark:

- 1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
- 2. Average level = Peak level Duty Cycle Factor
- 3. Duty Cycle Factor = 20*log (Duty Cycle) = -23.56dB



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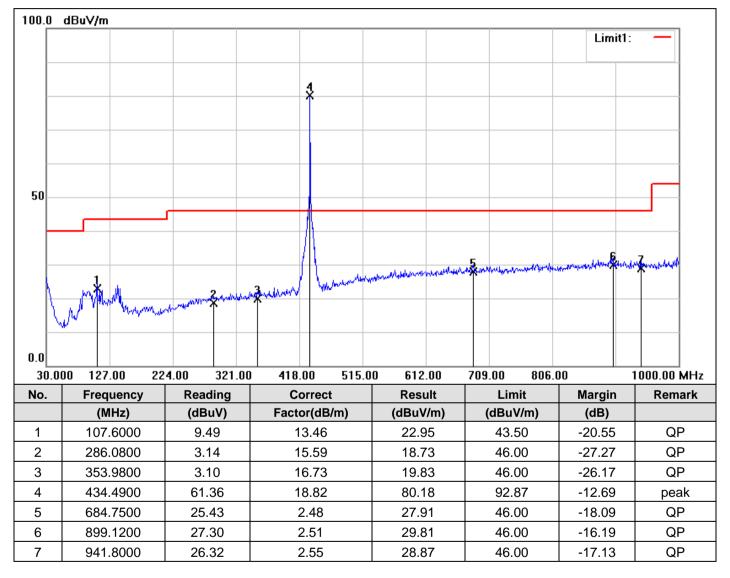
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10.2 Spurious Emissions

Below 1GHz:

433.92MHz:

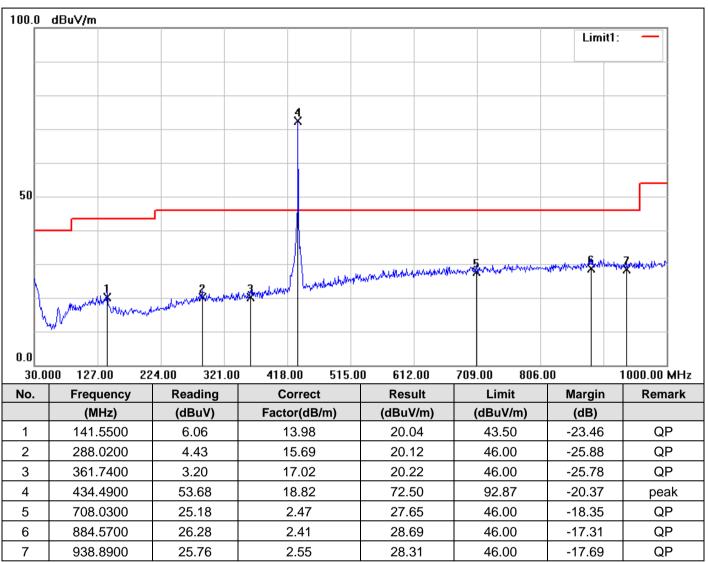
Vertical:





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Horizontal:



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Above 1GHz

433.92MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	2170.000	70.66	-25.61	45.05	54.00	-8.95	peak	Vertical
2	2605.000	75.60	-23.73	48.87	54.00	-5.13	peak	Vertical
3	3040.000	60.74	-23.20	37.54	54.00	-16.46	peak	Vertical
4	1460.000	70.31	-28.42	41.89	54.00	-12.11	peak	Horizontal
5	2170.000	69.77	-25.61	44.16	54.00	-9.84	peak	Horizontal
6	2605.000	72.82	-23.73	49.09	54.00	-4.91	peak	Horizontal

Remark: If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



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10.3 20dB Bandwidth

Measurement Data:

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.92	194.77	1084.8	Pass

Test plot as follows:

Spectrum									
Ref Level			_	RBW 3 kHz	_				
Att 1Pk Max		10 dB SWT :	5.6 ms 😑 '	VBW 10 kHz	Mode Sw	/eep			
					D	3[1]			-0.17 dB
100 dBµV				_		-[-]		1	94.770 kHz
					M	1[1]			57.43 dBµ\
90 dBµV						1	1	433.8	20530 MHz I
80 dBµV				M2					
ου ασμν				X	٨				
70 dвµV——			۴. – h	VW A	-A A	A			
		N	. /	1 M L A	241				
60 dBµV	01 57.4	50 dBµV	κ A Γ	+ \/ - \/		1 1 2			
50 dBµV		A/		VV	V V	ШЛ	L. A.		
40 dBhA	A	MAA	VV.	V	V		MAL	η Α.	A
6 A 7 M 1	∇	<u> </u>					AN V	MA	MAN
j3ø]døµv—₩	*	ų ,					*	- v v v	~ ~ ~
20 dBµV									
10 dBµV									
CF 433.92 N	1Hz			3001	pts			Span	500.0 kHz
Marker									
Type Ref	Trc	<u>X-value</u> 433.8205		<u>Y-value</u> 57.43 dBµ	Funct	tion	Fund	tion Result	
M1 M2	1	433.8203		57.43 UBL 77.45 dBL					
D3 M1	++		77 kHz	-0.17 c					
)[Measur	ing		1



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10.4 99% Bandwidth

Measurement Data:

99% bandwidth (kHz)	FL (MHz)	FH (MHz)	Limit(MHz)	Result	
187.44	433.8230	434.0104	260-470	Pass	

Test plot as follows:

Spectrum	Ì							
Ref Level 107.0		● R 5.6 ms ● V		Mode Sv	/een			
●1Pk Max	10 00 011	0.0 110 • .		induc or	, oop			
100 dBµV						433.9	71.87 dBµV 433.956650 MHz 7.437520826 kHz	
90 dBµV				0			107.4370	
80 dBµV				M1				
70 dBµV		٨			٨			
60 dBµV		- / m	μĄ	A.				
50 dBµV		<u>K</u> A/-		/ V	<u>∖</u> ∧ ∓≇			
40 dBµY	-AA	I V V		*	V Vr	AA	A	٨
laq/dep/~~//	$\gamma \gamma \gamma$					VV	V' hA	AA/
							Y Y F	V 4
10 dBµV								
CF 433.92 MHz			3001	. pts			Span	500.0 kHz
Marker								
Type Ref Tro			Y-value	Func	tion	Function Result		
		65 MHz	71.87 dBµ		cc Bw	187.437520826 k		20026 MU-
	1 433.8230 1 434.010	132 MHZ 147 MHZ	51.62 dBµ 47.39 dBµ				187.4375	20820 KHZ
					Measu	ding 🔳		1



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10.5 Dwell Time

Measurement Data:

Test item	Limit (s)	Results		
Transmission Duration	≥10s	Pass		
Ontime	≤1 \$	Pass		

Test plot as follows:

Spectrum					
Ref Level 107.00 dB Att 10 SGL	µ∨ ● dB ● SWT 18 s ●	RBW 1 MHz VBW 1 MHz			
●1Pk Max	1				
100 10.4			D2[1]		-0.14 di
100 dBµV			544543		14.73600
90 dBµV			M1[1]		76.90 dBµ 2.41200
80 dBµV					D2
					A A
70 dBµV					
60 dBµV					
50 dBµV			Manager and the second second second		
40 dBµV					
30 dBµV					
20 dBµV					
10 dBµV					
CF 433.92 MHz	I I	3001 pt	s	I	1.8 s/
Marker					
Type Ref Trc	X-value	Y-value	Function	Fun	ction Result
M1 1	2.412 s	76.90 dBµV			
D2 M1 1	14.736 s	-0.14 dB			
				Ready	4/4



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Spectrum										
Ref Level	107.00	∣ dBµV		RBW 1 MHz						
🕳 Att		10 dB 🔵 SWT	100 ms 👄	VBW 1 MHz						
SGL										
⊖1Pk Max										
					D	2[1]				-0.21 dB
∎ 100 dBµV——										6.6667 ms
					M	1[1]				32.47 dBµV
90 dBµV	M1								1	3.1667 ms
	TAL	<u> </u>								
80 dBµV		1								
70 dBµV										
60 dBµV										
50 dBµV			1					1		
401dBUV	.				The Printer of Allenda					
40 UBHV								1		
30 dBµV										
20 dBµV										
10 dBµV										
CF 433.92 M	/IHz	1	1	3001	. pts	1			I	10.0 ms/
Marker					· F ·					
Type Ref	Trc	X-value	<u> </u>	Y-value	Func	tion		Fund	tion Result	
M1	1		, 567 ms	82.47 dB				, and	Xion Robuit	
D2 M1			567 ms	-0.21 (
(1)	Bood			2

- End of the Report -