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FCC TEST REPORT FCC ID:2AMA9-DAM100

Report Number.....: ZKT-240119L0981E-1

Date of Test...... Jan. 16, 2024 to Feb. 20, 2024

Date of issue...... Feb. 21, 2024

Total number of pages...... 25

Test Result: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Applicant's name: Shenzhen Dajin Technology Co.,Ltd

505, No 20, Lane 1 lishipai, dafapu community, Bantian street,

longgang District, Shenzhen, China

Manufacturer/ Factory: Suzhou Zhongjin Technology Co.,Ltd

South Building of E-commerce Service Platform of Gongtou cloud

Address of Manufacturer/ Factory: computing industrial park, Suzhou, Anhui High-tech Zone, Anhui

Province, China

Test specification:

Standard...... FCC CFR Title 47 Part 15 Subpart C ANSI C63.10:2013

Test procedure.....: /

Non-standard test method: N/A

Test Report Form No.....: TRF-EL-112_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: Mobile TPMS Tool

Trademark N/A

Model/Type reference...... DAM100,DAM200,DAM300,DAM500

Ratings..... Battery:DC 3.7V 950mAh

Shenzhen ZKT Technology Co., Ltd.













Testing procedure and testing location:

Shenzhen ZKT Technology Co., Ltd. Testing Laboratory....:

Address....: 1/F, No. 101, Building B, No. 6, Tangwei Community

Industrial Avenue, Fuhai Street, Bao'an District,

Shenzhen, China

Tested by (name + signature)....: Jim Liu

Tom Zou Reviewer (name + signature)...... Tom Zou

Approved (name + signature)..... Lake Xie

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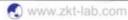
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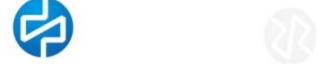
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1.VERSION

Report No.	Version	Description	Approved
ZKT-240119L0981E-1	Rev.01	Initial issue of report	Feb. 21, 2024
3			

Shenzhen ZKT Technology Co., Ltd.
1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B							
Standard Section	Test Item	Judgment	Remark				
FCC part 15.203	Antenna requirement	PASS					
FCC part 15.207	AC Power Line Conducted Emission	PASS					
FCC part 15.209	Fundamental &Radiated Spurious Emission Measurement	PASS					
FCC part 15	Channel Bandwidth	PASS					

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report







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2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an

District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299 IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± 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	Uncertainty	
1	Conducted Emission Test	±1.38dB	
2	RF power conducted	±0.16dB	М
3	Spurious emissions conducted	±0.21dB	
4	All emissions radiated(<1G)	±4.68dB	
5	All emissions radiated(>1G)	±4.89dB	
6	Temperature	±0.5°C	
7	Humidity	±2%	









3. GENERAL INFORMATION

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3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Mobile TPMS Tool
Model No.:	DAM100,DAM200,DAM300,DAM500
Model Different.:	All the model are the same circuit and RF module, only the model name is different.
Hardware Version:	N/A
Software Version:	N/A
Sample(s) Status:	ZKT-240119L0981
Operation Frequency:	125KHz
Channel Numbers:	1
Modulation Type:	ASK
Antenna Type:	PCB antenna
Antenna gain:	0dBi
Power supply:	Battery:DC 3.7V 950mAh







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3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting NFC mode
•	the test voltage was tuned from 85% to 115% of the nominal rated supply ne worst case was under the nominal rated supply condition. So the report just ta.

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Rad	liated	Εm	ission

EUT

Conducted Spurious

EUT

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Mobile TPMS Tool	N/A	DAM100,DAM200,DA M300,DAM500	N/A	EUT
	712				
	79.		6712		D7 D2
			100		E.V.

Item	Shielded Type	Ferrite Core	Length	Note
		20		
		68.74		(6) (6)

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.

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Radiation Test equipment

Firmware Manufacturer Serial No. Last calibration Calibrated until Item Equipment Type No. Version Spectrum Analyzer **KEYSIGHT** MY55370835 Nov. 02, 2023 9020A A.17.05 Nov. 01, 2024 (9kHz-26.5GHz) Spectrum Analyzer 2 R&S FSV40-N 100363 1.71 SP2 Nov. 02, 2023 Nov. 01, 2024 (10kHz-39.9GHz) **EMI Test Receiver** 3 R&S ESC₁₇ 100969 4.32 Nov. 02, 2023 Nov. 01, 2024 (9kHz-7GHz) Bilog Antenna Schwarzbeck **VULB9168** N/A N/A Nov. 13, 2023 Nov. 12, 2024 (30MHz-1500MHz) Horn Antenna 5 Agilent AH-118 071145 N/A Nov. 13, 2023 Nov. 12, 2024 (1GHz-18GHz) Horn Antenna 6 SAS-574 588 N/A A.H.System Nov. 13, 2023 Nov. 12, 2024 (15GHz-40GHz) 7 Loop Antenna **TESEQ** HLA6121 58357 N/A Nov. 16, 2023 Nov. 15, 2024 **Amplifier** ΕM EM330 8 60747 N/A Nov. 02, 2023 Nov. 01, 2024 (30-1000MHz) **Electronics Amplifier Amplifier** 9 HuiPu 8449B 3008A00315 N/A Nov. 02, 2023 Nov. 01, 2024 (1GHz-26.5GHz) Amplifier 10 QuanJuDa **DLE-161** 097 N/A Nov. 02, 2023 Nov. 01, 2024 (500MHz-40GHz) 11 N/A N/A Nov. 02, 2023 Nov. 01, 2024 Test Cable R-01 N/A N/A 12 **Test Cable** N/A R-02 N/A Nov. 02, 2023 Nov. 01, 2024 13 Test Cable N/A R-03 N/A N/A Nov. 02, 2023 Nov. 01, 2024 14 **Test Cable** N/A **RF-01** N/A N/A Nov. 02, 2023 Nov. 01, 2024 15 **Test Cable** N/A **RF-02** N/A N/A Nov. 02, 2023 Nov. 01, 2024 16 **Test Cable** N/A **RF-03** N/A N/A Nov. 02, 2023 Nov. 01, 2024 ESG Signal 17 E4421B N/A B.03.84 Agilent Nov. 02, 2023 Nov. 01, 2024 Generator 18 N/A A.01.87 Signal Generator Agilent N5182A Nov. 02, 2023 Nov. 01, 2024 Magnetic Field 19 Narda **ELT-400** 0-0344 N/A Nov. 16, 2023 Nov. 15, 2024 Probe Tester Wideband Radio 106504 V 3.7.22 20 Communication R&S CMW500 Nov. 02, 2023 Nov. 01, 2024 Test

Shenzhen ZKT Technology Co., Ltd.

MW

Frad

MW

MF

MF

LongWei

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

N/A

N/A

N/A

N/A

Ver.EMC-CO

N 3A1.1 V2.0.0.0







N/A

N/A

N/A

N/A

N/A

N/A



Nov. 01, 2024

Nov. 02, 2023

MWRF Power

EMC Software

Antenna tower

RF Software

Turntable

Meter Test system

D.C. Power Supply

21

22

23

24

25

26

MW100-RF

TPR-6405D

EZ-EMC

MTS8310

MF-7802BS

MF-7802BS

CB





Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Nov. 14, 2023	Nov. 13, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Nov. 02, 2023	Nov. 01, 2024
3	Test Cable	N/A	C-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
4	Test Cable	N/A	C-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Test Cable	N/A	C-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Nov. 02, 2023	Nov. 01, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Nov. 07, 2023	Nov. 06, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	1	\













4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (d	Standard			
PREQUENCY (MINZ)	Quas-peak	Average	Standard		
0.15 -0.5	66 - 56 *	56 - 46 *	FCC		
0.50 -5.0	56.00	46.00	FCC		
5.0 -30.0	60.00	50.00	FCC		

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation







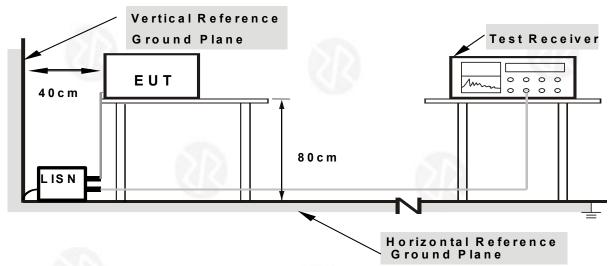








4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

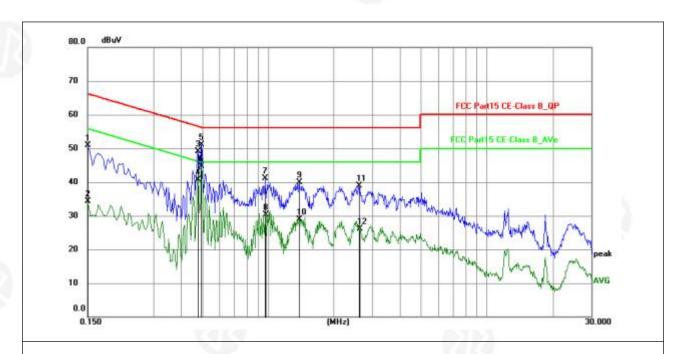
4.1.6 TEST RESULTS

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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L 2/2
Test Voltage :	AC 120V/60Hz		100



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	37.86	13.01	50.87	66.00	-15.13	QP	Р	
2	0.1500	21.31	13.01	34.32	56.00	-21.68	AVG	Р	,
3	0.4785	38.44	10.64	49.08	56.37	-7.29	QP	Р	
4	0.4785	30.03	10.64	40.67	46.37	-5.70	AVG	Р	
5	0.4965	40.64	10.56	51.20	56.06	-4.86	QP	Р	
6	0.4965	34.20	10.56	44.76	46.06	-1.30	AVG	Р	
7	0.9734	30.71	10.45	41.16	56.00	-14.84	QP	Р	
8	0.9779	19.92	10.44	30.36	46.00	-15.64	AVG	Р	
9	1.3919	29.57	10.34	39.91	56.00	-16.09	QP	Р	
10	1.3919	18.62	10.34	28.96	46.00	-17.04	AVG	Р	
11	2.5980	28.84	10.04	38.88	56.00	-17.12	QP	Р	
12	2.6204	16.08	10.03	26.11	46.00	-19.89	AVG	Р	3

Notes

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

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- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

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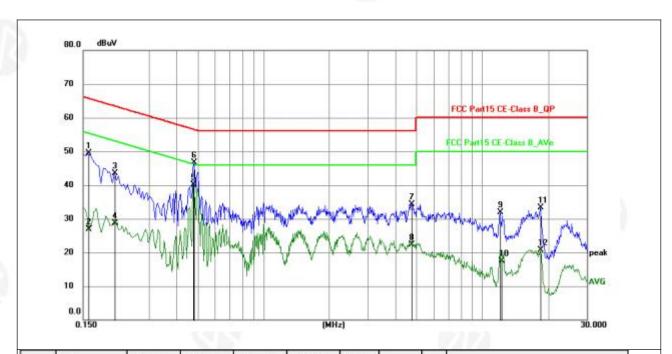








Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		100



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1590	36.63	12.81	49.44	65.52	-16.08	QP	Р	
2	0.1590	14.05	12.81	26.86	55.52	-28.66	AVG	Р	
3	0.2085	31.68	11.88	43.56	63.26	-19.70	QP	Р	
4	0.2085	16.86	11.88	28.74	53.26	-24.52	AVG	Р	
5	0.4785	29.52	10.64	40.16	46.37	-6.21	AVG	Р	*
6	0.4830	36.06	10.62	46.68	56.29	-9.61	QP	Р	
7	4.7399	25.52	8.82	34.34	56.00	-21.66	QP	Р	
8	4.7490	13.47	8.81	22.28	46.00	-23.72	AVG	Р	
9	12.0795	23.21	8.75	31.96	60.00	-28.04	QP	Р	
10	12.2010	8.81	8.77	17.58	50.00	-32.42	AVG	Р	
11	18.3885	23.61	9.63	33.24	60.00	-26.76	QP	Р	
12	18.4650	11.07	9.65	20.72	50.00	-29.28	AVG	Р	

Notes

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

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- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

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4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9kHz to 1GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak		
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak		
	4011-	Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10Hz	Average		

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

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g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for 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.

Note

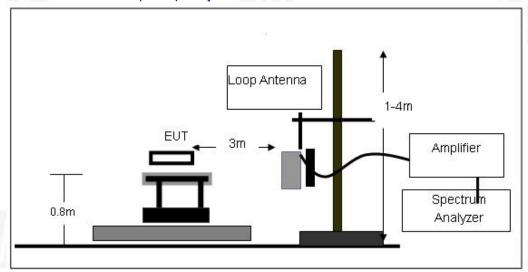
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

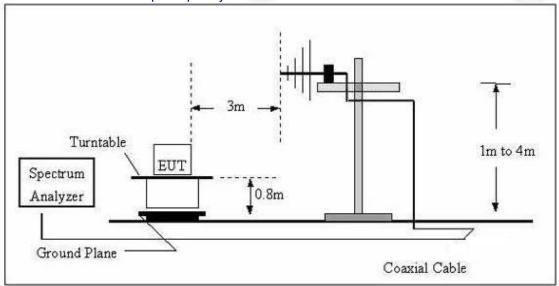
No deviation

4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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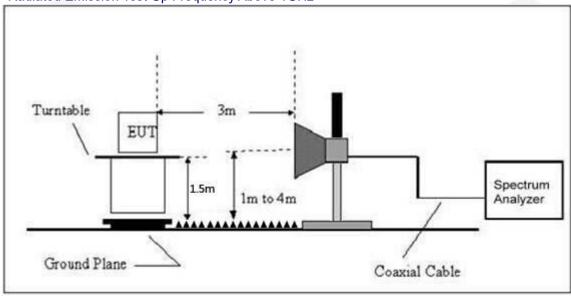












4.2.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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Between 9KHz - 30 MHz

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80 Limit dBuV/m @3m = Limit dBuV/m @30m + 40 9 kHz~30 MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.011	38.29	22.39	60.68	128.02	-67.34	Average
0.042	41.06	20.79	61.85	115.83	-53.98	Average
0.125	50.66	41.12	95.33	105.66	-6.33	Average
1.457	29.24	21.19	50.43	64.34	-13.91	Peak
3.457	30.39	21.76	52.15	69.54	-17.39	Peak
11.624	28.02	23.57	51.59	69.54	-17.95	Peak
25.76	43.19	15.15	58.34	79.31	-20.97	Peak

Note:

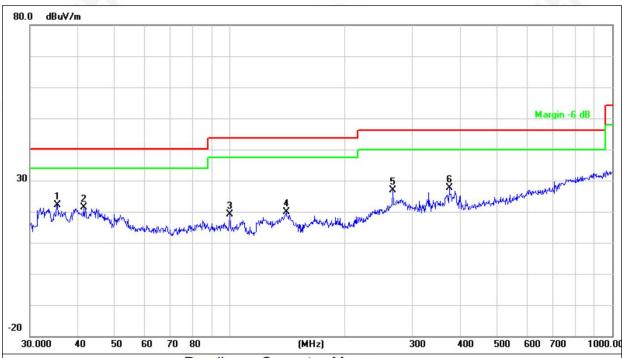
Pre-scan in the all of mode, the worst case in of was recorded. Factor = antenna factor + cable loss – pre-amplifier. Margin = Emission Level- Limit.





Between 30MHz - 1GHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	35.3750	33.74	-11.55	22.19	40.00	-17.81	QP
2		41.4215	31.91	-10.65	21.26	40.00	-18.74	QP
3		99.8777	32.77	-13.52	19.25	43.50	-24.25	QP
4		140.3420	29.58	-9.71	19.87	43.50	-23.63	QP
5		266.6090	35.97	-9.17	26.80	46.00	-19.20	QP
6		374.6225	33.95	-6.36	27.59	46.00	-18.41	QP

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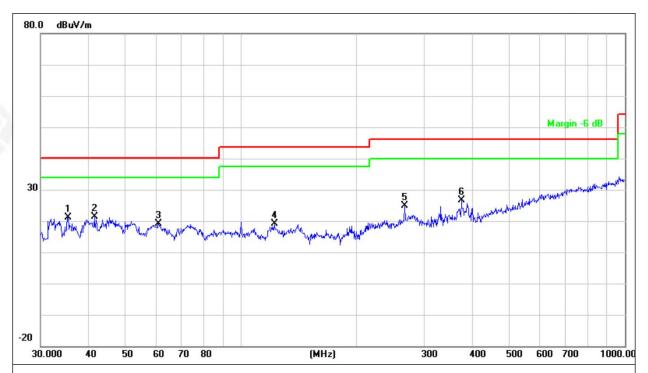








Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		35.3750	32.74	-11.55	21.19	40.00	-18.81	QP
2	*	41.4215	31.91	-10.65	21.26	40.00	-18.74	QP
3		60.9174	31.40	-12.21	19.19	40.00	-20.81	QP
4		121.9753	29.81	-10.78	19.03	43.50	-24.47	QP
5		266.6090	33.97	-9.17	24.80	46.00	-21.20	QP
6		374.6225	32.95	-6.36	26.59	46.00	-19.41	QP

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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5. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.215
Test Method:	ANSI C63.10: 2013

5.1 APPLIED PROCEDURES / LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be deomonstrated by measuring the radiated emissions.

5.2 TEST PROCEDURE

- 1. Set RBW = 1 kHz.
- 2. Set the video bandwidth (VBW) ≥RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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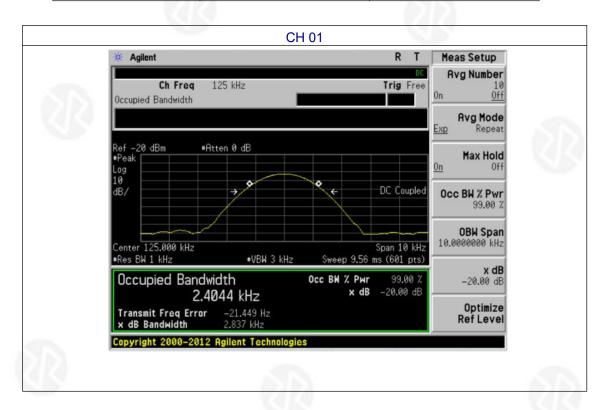




5.6 TEST RESULT

Temperature :	26℃	Relative Humidity:	54%
Test Mode :	ASK	Test Voltage :	DC 3.7V

Test channel	20dB Channel Bandwidth (KHz)	Result
1	2.837	Pass





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7.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 antennas is PCB antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details

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8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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

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