FCC Radio Test Report FCC ID: DI2CT-8TD726A

This report concerns	(check one):	Original Gran	t Class I Change
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Issued Date : May. 18, 2010 Project No. : 0905C047B

Equipment : Programmable Thermostat with EM260 Zigbee

Model Name: 8TD726A

Applicant : Computime Limited

Address : 17/F, Great Eagle Centre, 23 Harbour Road,

Wanchai, Hong Kong

Manufacturer: Computime Electronics(shenzhen)company

Limited.

Address : computime Technology Park, Dan Zhu Tou

Cun, Buji, Longgang Region, Shenzhen

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

May. 18, 2009 ~ Aug. 04, 2009

Testing Engineer :

(Jeff Yang)

Technical Manager

(Vic Chiu)

Authorized Signatory

(Steven Lu)

NEUTRON ENGINEERING INC.

No. 132-1, Lane 329, Sec. 2, Palain Rd., Shijr City, Taipei, Taiwan TEL: (02) 2646-5426 FAX: (02) 2646-6815

RVLAD







Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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1. CERTIFICATION

Equipment: Programmable Thermostat with EM260 Zigbee

Trade Name: N/A Model Name: 8TD726A

Applicant: Computime Limited

F a c t o r y: Computime Electronics(shenzhen)company Limited.

A d d r e s s: computime Technology Park, Dan Zhu Tou Cun, Buji, Longgang

Region, Shenzhen

Test Item: ENGINEERING SAMPLE Date of Test:: May. 18, 2009 ~ Aug. 04, 2009

Standards: FCC Part15, Subpart C(15.247) / ANSI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-0905C047B) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test result included in this report is only for the Zigbee part of the product.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (c)	Antenna conducted Spurious Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)	Peak Output Power	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.247 (d)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS			

NOTE:

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

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan. Neutron's test firm number is 95335

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Η	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Н	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Programmable Thermostat with EM260 Zigbee				
Trade Name	N/A				
Model Name	8TD726A				
OEM Brand/Model Name	N/A				
Model Difference	Only difference is Equip	report (NEI-FCCP-1-0905C047), ment PCBA parts changes or t RF Modular is the same			
	The EUT is a Programm Zigbee.	able Thermostat with EM260			
	Operation Frequency:	2405~2480 MHz			
	Modulation Type:	DSSS			
	Bit Rate of Transmitter	250Kb/s			
	Number Of Channel	16 CH			
Product Description	Antenna Designation:	Please see Note 3.			
	Antenna Gain(Peak)	Please see Note 3.			
	Output Power:	17.34dBm (Max.)			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification please refer to the User's Manual.				
Channel List	Please refer to the Note	2.			
Dawar Cauraa	AC Mains.				
Power Source	DC Voltage supplied from 2*AA size Battery for clock use.				
Dower Dating	AC 24V				
Power Rating	DC 3.0V				
Connecting I/O Port(s)	Please refer to the User's Manual				
Products Covered	N/A				

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2

Freqeuncy Band	Channel No.	Frequency
	1	2405 MHz
	2	2410 MHz
	3	2415 MHz
	4	2420 MHz
	5	2425 MHz
	6	2430 MHz
	7	2435 MHz
2400~2483.5MHz	8	2440 MHz
2400 -2403.3WII IZ	9	2445 MHz
	10	2450 MHz
	11	2455 MHz
	12	2460 MHz
	13	2465 MHz
	14	2470 MHz
	15	2475 MHz
	16	2480 MHz

3

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB Antenna	N/A	-0.32

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	-	1	-
Maximum Peak Conducted Output Power				
Power Spectral Density	Zigbee	250Kb/s	1/8/16	1
6dB Spectrum Bandwidth				
Radiated Emissions 9kHz~1GHz	Zigbee	250Kb/s	8	1
Radiated Emissions 1GHz~10 th Harmonic	Zigbee	250Kb/s	1/8/16	1
Band Edge Emissions	Zigbee	250Kb/s	1/16	1

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) " N/A" denotes test is not applicable in this Test Report

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

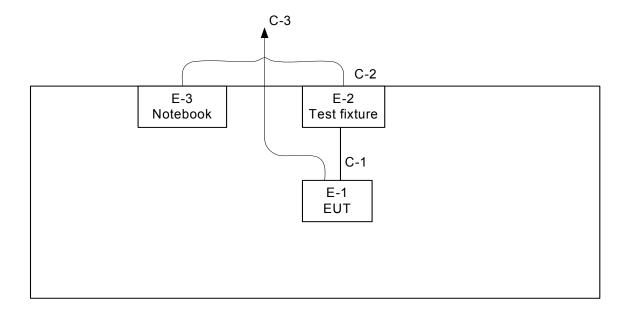
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Zigbee

Test software Version	Test program: Hyper terminal			
Frequency	2405 MHz 2440 MHz 2480 MHz			
Parameters	3	3	-17	

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B.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1: Control Cable C-2: RJ-45 Cable C-3: AC Power Line

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3.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Programmable Thermostat with EM260 Zigbee	N/A	8TD726A	DI2CT-8TD726A	N/A	EUT
E-2	Test fixture	N/A	N/A	N/A	N/A	
E-3	Notebook	DELL	INSPIRON 1420	JX193 A01DC2	CNG7050PF6	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.2M	
C-2	NO	NO	1.0M	
C-3	NO	NO	10M	

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 <code>[Length]</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
TREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00042991	Jan. 23, 2010
2	LISN	EMCO	3816/2	00042990	Jan. 23, 2010
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 26, 2009
4	50Ω Terminator	N/A	N/A	N/A	May.11, 2010
5	Test Cable	N/A	C01	N/A	Nov. 26, 2009
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 06, 2010

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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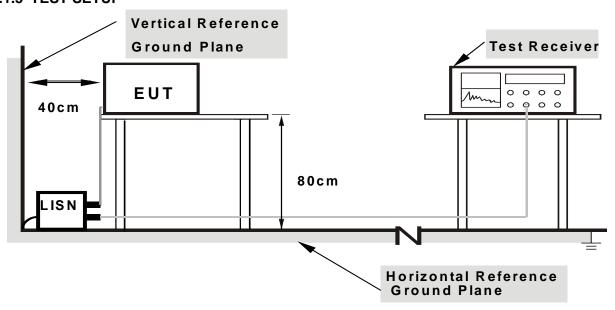
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 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.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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

4.1.6 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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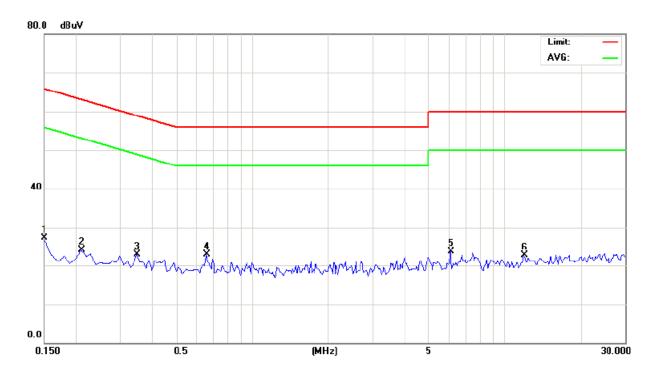
4.1.7 TEST RESULTS

	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	26 ℃	Relative Humidity:	51 %
Pressure:	1010hPa	Test Power :	AC 24V
Test Mode :	Normal Link		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	Note
0.15	Line	27.27	*	66.00	56.00	-38.73	(QP)
0.21	Line	24.06	*	63.21	53.21	-39.15	(QP)
0.35	Line	22.87	*	58.96	48.96	-36.09	(QP)
0.66	Line	22.82	*	56.00	46.00	-33.18	(QP)
6.12	Line	23.70	*	60.00	50.00	-36.30	(QP)
11.95	Line	22.71	*	60.00	50.00	-37.29	(QP)

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz \circ



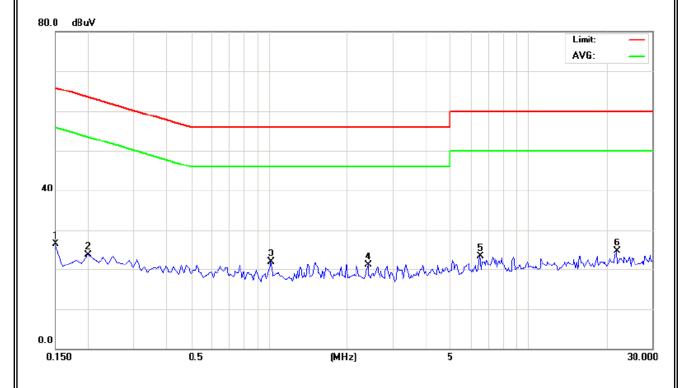
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	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	26 ℃	Relative Humidity:	51 %
Pressure:	1010hPa	Test Power :	AC 24V
Test Mode :	Normal Link		

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	Note
0.15	Neutral	26.49	*	66.00	56.00	-39.51	(QP)
0.20	Neutral	23.71	*	63.61	53.61	-39.90	(QP)
1.02	Neutral	21.93	*	56.00	46.00	-34.07	(QP)
2.41	Neutral	21.13	*	56.00	46.00	-34.87	(QP)
6.49	Neutral	23.32	*	60.00	50.00	-36.68	(QP)
22.02	Neutral	24.66	*	60.00	50.00	-35.34	(QP)

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz o



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
PREQUENCT (MHZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3058	Mar. 18, 2010
2	Test Cable	N/A	10M_OS02	N/A	Nov. 26, 2009
3	Test Cable	N/A	OS02-1/-2/-3	N/A	Nov. 26, 2009
4	Pre-Amplifier	Anritsu	MH648A	M09961	Nov. 26, 2009
5	Pre-Amplifier	Agilent	8449B	3008A0171 4	May,12, 2010
6	Spectrum Analyzer	R&S	FSP_40	100129	Jan, 06, 2010
7	EMI Test Receiver	R&S	ESCI	100082	Mar. 06, 2010
8	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-325	Dec. 11, 2009
9	Horn Antenna	Schwarzbeck	BBHA9170	9170-187	Dec. 09, 2009
10	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
11	Turn Table	Chance Most	CMTB-1.5	N/A	N/A

Remark: "N/A" denotes No Model Name / Serial No. and No Calibration specified.

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. 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 open area test site. 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 0.8 m; 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.

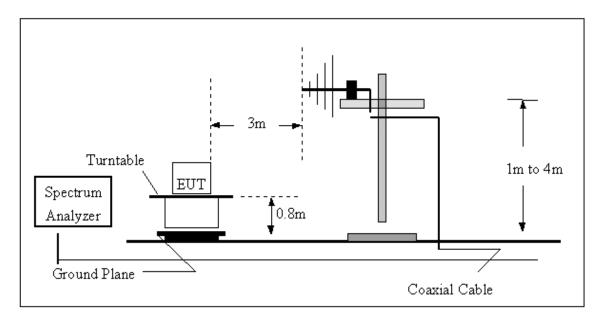
4.2.4 DEVIATION FROM TEST STANDARD No deviation

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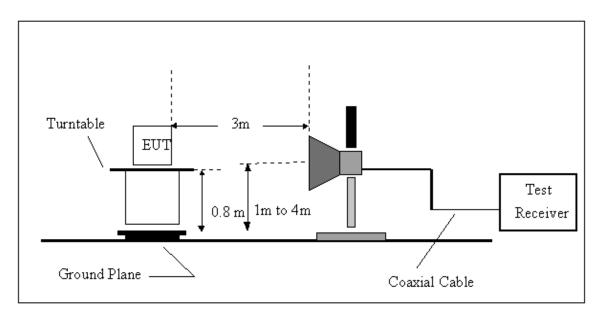


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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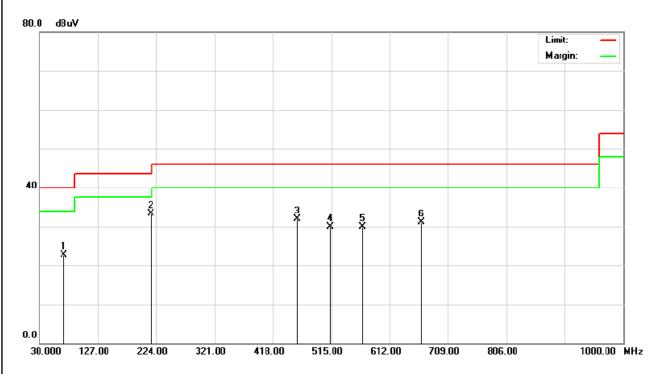
4.2.7 TEST RESULTS (BETWEEN30 - 1000 MHZ)

	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	26 ℃	Relative Humidity:	69 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX Mode-2440MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
70.74	V	44.61	-21.89	22.72	40.00	- 17.28	
215.27	V	50.45	-17.10	33.35	43.50	- 10.15	
458.27	V	41.60	-9.60	32.00	46.00	- 14.00	
513.06	V	38.23	-8.40	29.83	46.00	- 16.17	
567.38	V	36.98	-7.08	29.90	46.00	- 16.10	
664.38	V	35.37	-4.34	31.03	46.00	- 14.97	

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz \circ
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

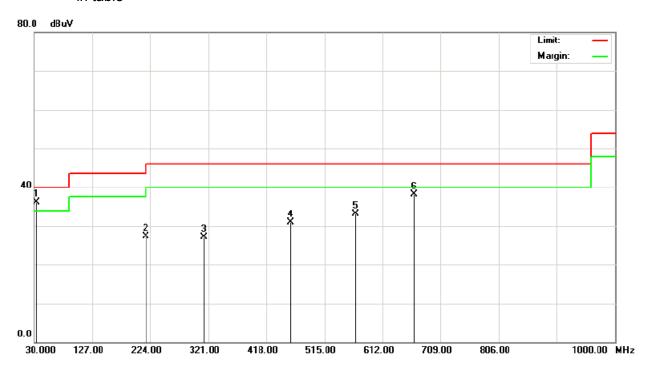


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	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	26 ℃	Relative Humidity:	69 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX Mode-2440MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
34.84	 Н	(dBuV) 49.46	-13.39	36.07	40.00	- 3.93	
217.21	Н	44.34	-16.99	27.35	46.00	- 18.65	
313.24	Н	40.19	-13.16	27.03	46.00	- 18.97	
458.74	Н	40.51	-9.59	30.92	46.00	- 15.08	
567.38	Η	40.27	-7.08	33.19	46.00	- 12.81	
664.38	Н	42.54	-4.34	38.20	46.00	- 7.80	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz \circ
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ



4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	29 ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX 2405MHz - CH 01		

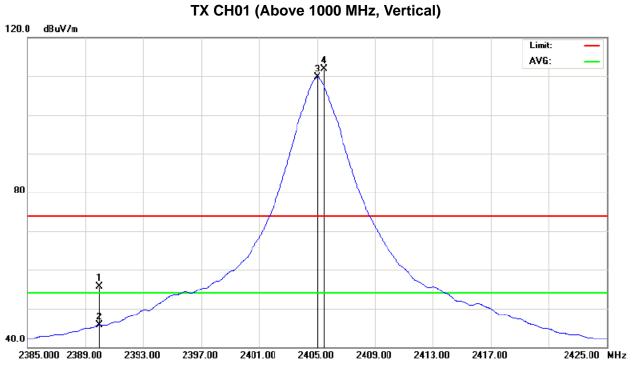
Freq.	Ant.Pol.	Rea	ding	Ant./CF	Α	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.01	13.90	31.73	55.74	45.63	74.00	54.00	Y/E
2405.04	V	80.19	77.86	31.77	111.96	109.63			Y/F
4810.12	V	49.31	47.02	4.46	53.77	51.48	74.00	54.00	Y/H

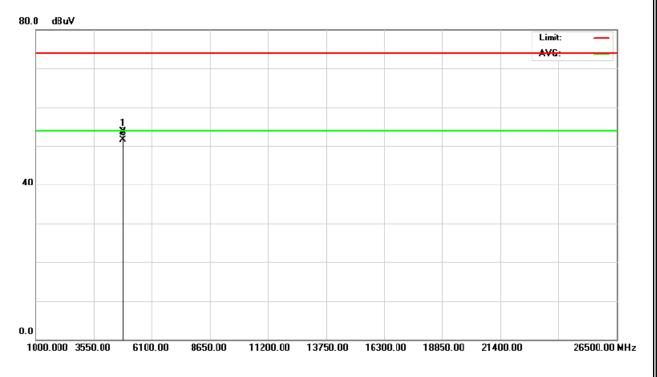
Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) For above 2nd Harmonic, the amplitude of spurious emissions which are attenuated is lower than the limit 20dB, so it was judged no need to be reported

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Neutron Engineering Inc.= TX CH01 (Above 1000)



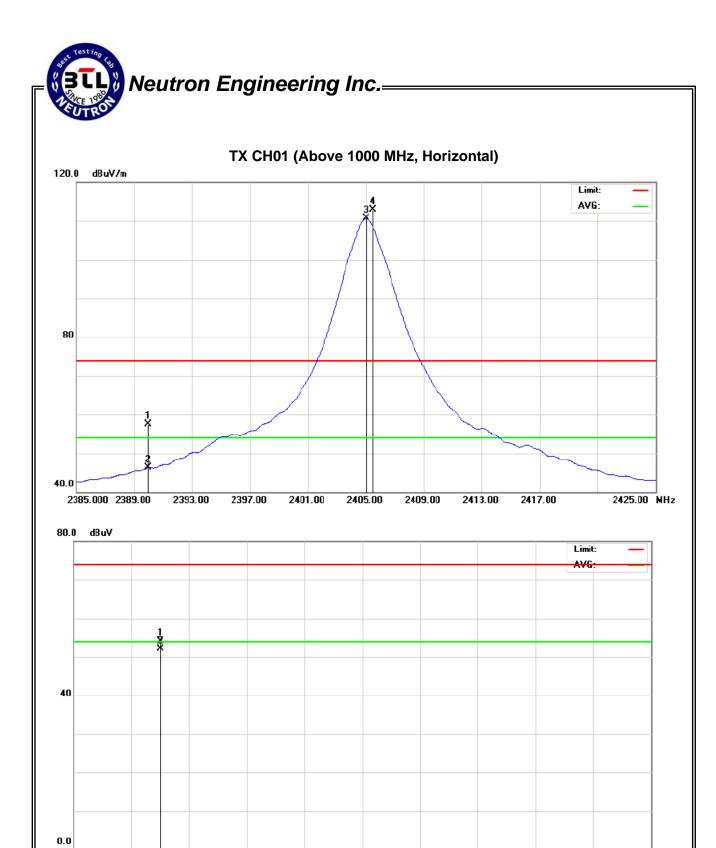


	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	29 ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX 2405MHz - CH 01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	25.75	14.49	31.73	57.48	46.22	74.00	54.00	Y/E
2405.00	Н	81.14	78.87	31.77	112.91	110.64			Y/F
4810.12	Н	49.66	47.60	4.46	54.12	52.06	74.00	54.00	Y/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) For above 2nd Harmonic, the amplitude of spurious emissions which are attenuated is lower than the limit 20dB, so it was judged no need to be reported

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11200.00 13750.00 16300.00 18850.00 21400.00

26500.00 MHz

1000.000 3550.00

6100.00

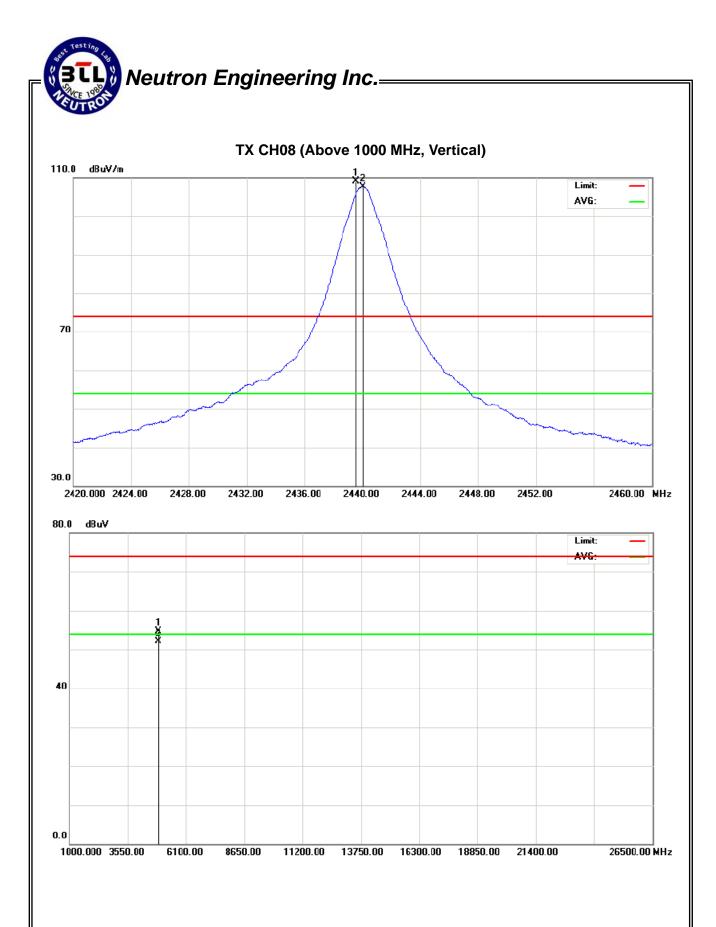
8650.00

	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	29 ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX 2440MHz - CH 08		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.00	V	77.49	76.15	31.63	109.12	107.78			Y/F
4880.12	V	49.99	47.44	4.70	54.69	52.14	74.00	54.00	Y/H

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) For above 2nd Harmonic, the amplitude of spurious emissions which are attenuated is lower than the limit 20dB, so it was judged no need to be reported

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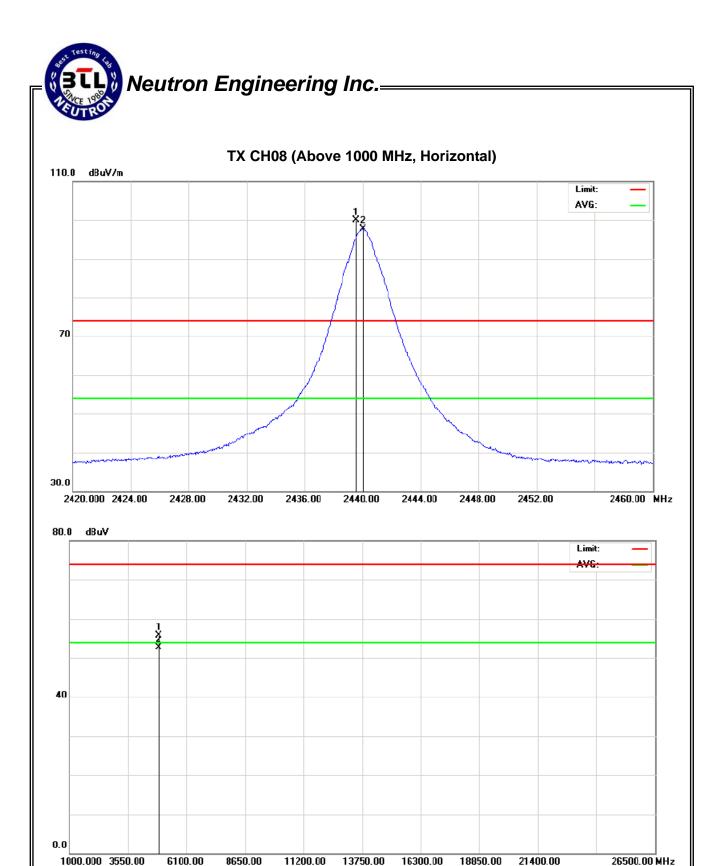


	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	29 ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX 2440MHz -CH 08		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.04	Н	68.31	66.06	31.63	99.94	97.69			Y/F
4880.12	Н	51.08	48.08	4.70	55.78	52.78	74.00	54.00	Y/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) For above 2nd Harmonic, the amplitude of spurious emissions which are attenuated is lower than the limit 20dB, so it was judged no need to be reported

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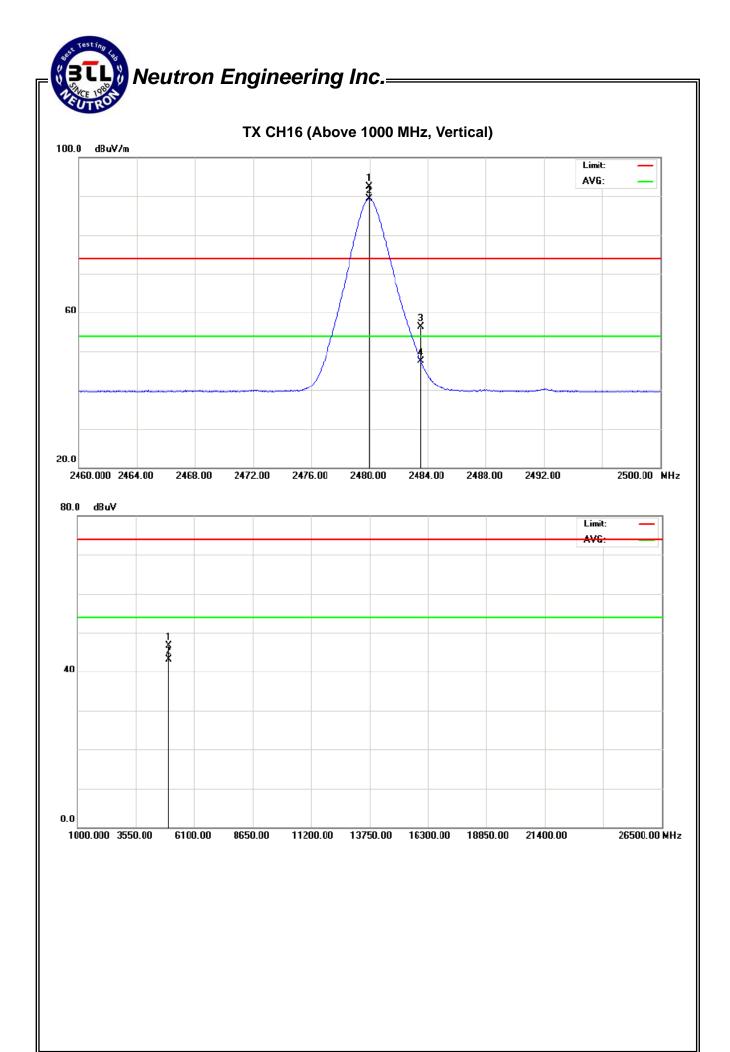


	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	29 ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX 2480MHz -CH 16		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.96	٧	60.17	57.09	32.28	92.45	89.37			Y/F
2483.50	V	23.98	15.29	32.28	56.26	47.57	74.00	54.00	Y/E
4960.12	V	41.83	38.20	4.95	46.78	43.15	74.00	54.00	Y/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) For above 2nd Harmonic, the amplitude of spurious emissions which are attenuated is lower than the limit 20dB, so it was judged no need to be reported

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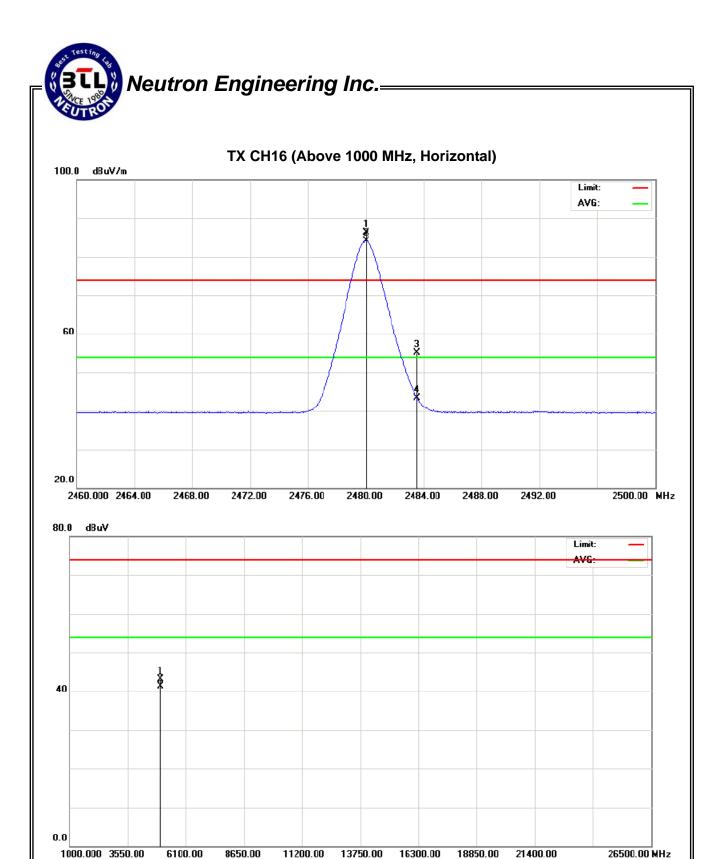


	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	29 ℃	Relative Humidity:	50 %
Pressure:	1010 hPa	Test Voltage :	AC 24V
Test Mode :	TX 2480MHz - CH 16		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	Н	53.99	51.85	32.28	86.27	84.13			Y/F
2483.50	Н	22.78	11.09	32.28	55.06	43.37	74.00	54.00	Y/E
4960.12	Н	38.10	36.34	4.95	43.05	41.29	74.00	54.00	Y/H

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) For above 2nd Harmonic, the amplitude of spurious emissions which are attenuated is lower than the limit 20dB, so it was judged no need to be reported

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4.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

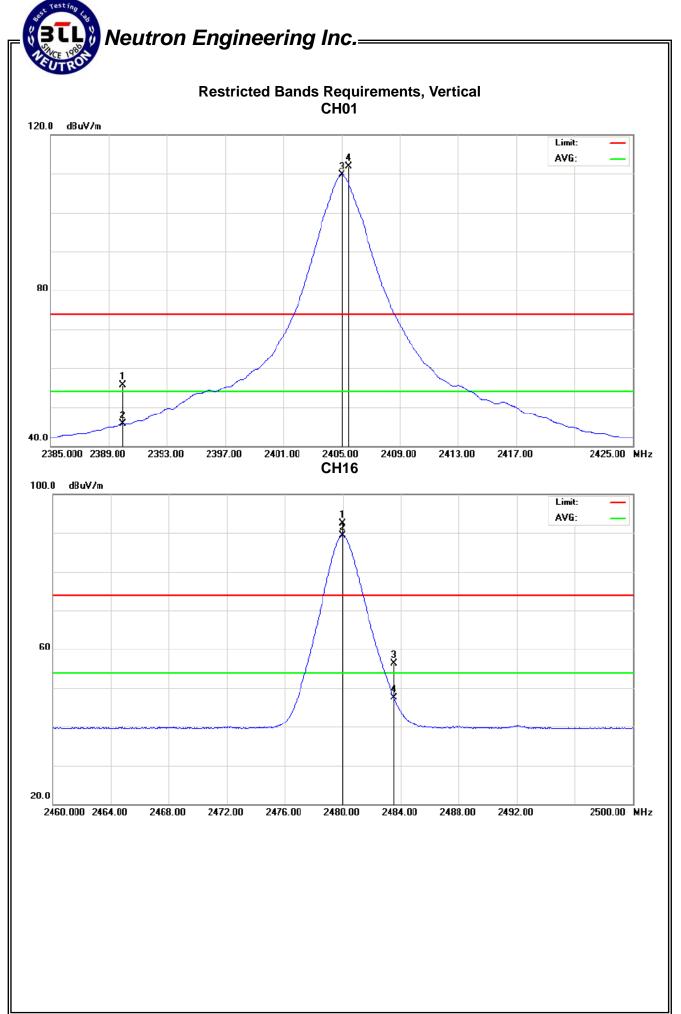
	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A						
Temperature:	29 ℃	Relative Humidity:	50 %						
Pressure:	1010 hPa	Test Voltage :	AC 24V						
Test Mode :	TX 2405MHz/2480MHz (Vertical	TX 2405MHz/2480MHz (Vertical)							
Note:	The transmitter was setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. The transmitter was setup to transmit at the highest channel (CH16). Then the field strength was measured at 2483.5-2500 MHz.								

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.01	13.9	31.73	55.74	45.63	74.00	54.00	CH01
2483.50	V	23.98	15.29	32.28	56.26	47.57	74.00	54.00	CH16

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (2) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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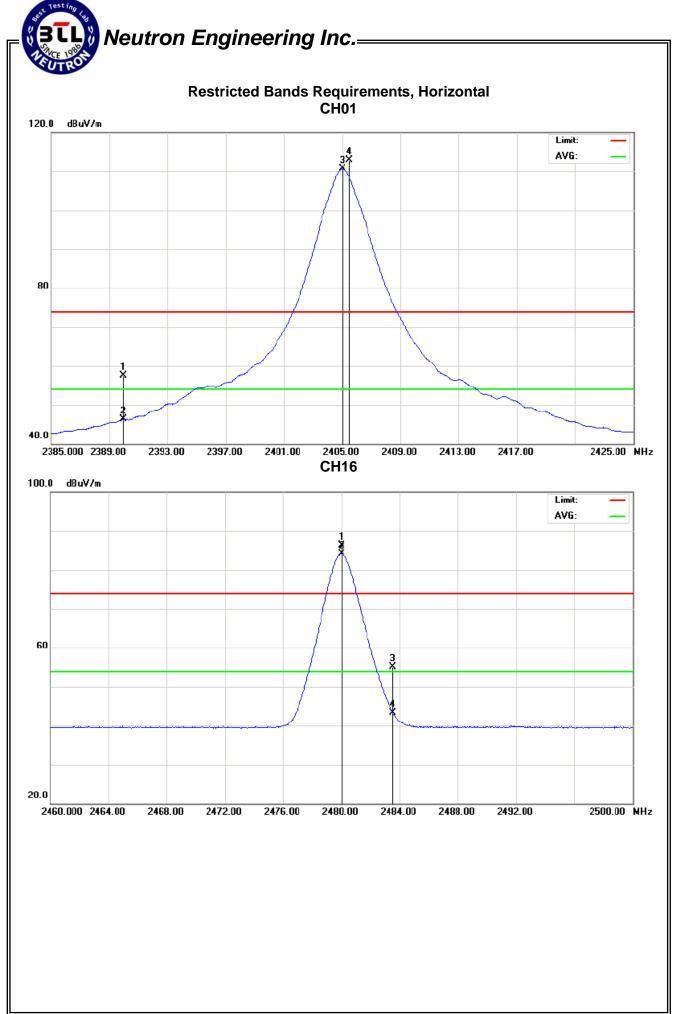
	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A		
Temperature:	29 ℃	Relative Humidity:	50 %		
Pressure:	1010 hPa	Test Voltage :	AC 24V		
Test Mode :	TX 2405MHz/2480MHz (Horizid	ontal)			
Note:	 The transmitter was setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. The transmitter was setup to transmit at the highest channel (CH16). Then the field strength was measured at 2483.5-2500 MHz. 				

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	25.75	14.49	31.73	57.48	46.22	74.00	54.00	CH01
2483.50	Н	22.78	11.09	32.28	55.06	43.37	74.00	54.00	CH16

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission $\,^{\circ}$
- (2) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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5. BANDWIDTH TEST

5.1 Applied procedures / limit

or Applied procedures / mine						
	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Resu				Result		
	15.247 (a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 06, 2010

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 20 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



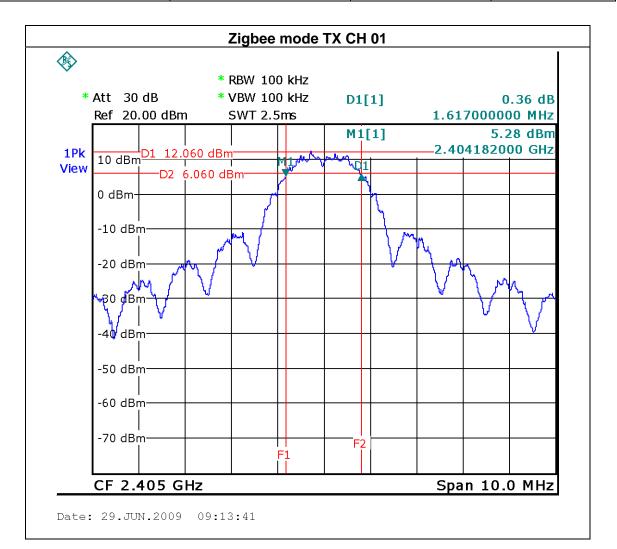
5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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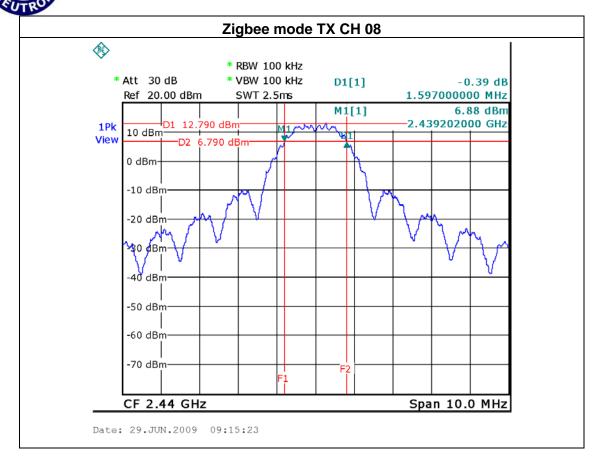
	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A	
Temperature:	23 ℃	Relative Humidity:	58 %	
Pressure:	1004 hPa	Test Power :	AC 24V	
Test Mode :	Zigbee mode /CH01, CH08, CH16			

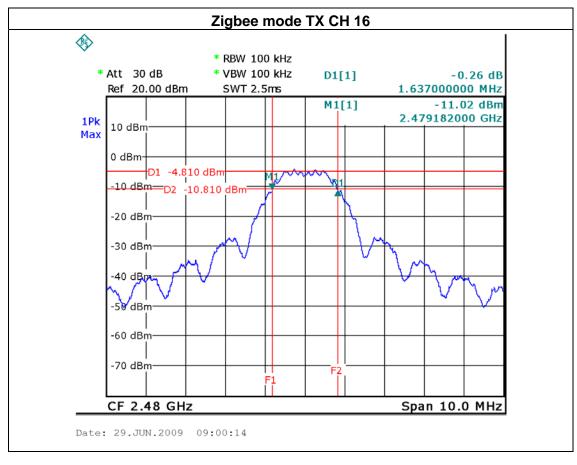
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2405	1.617	>=500KHz
CH08	2440	1.597	>=500KHz
CH16	2480	1.637	>=500KHz



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Neutron Engineering Inc.





6. PEAK OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (b)(1)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00001568	Oct. 26, 2009
2	Power Meter Sensor	Anritsu	MA2491A	030989	Feb. 09, 2010

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

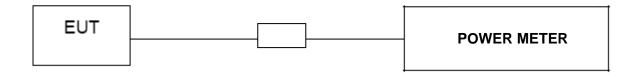
6.1.2 TEST PROCEDURE

a. The EUT was directly connected to the power metter and antenna output port as show in the block diagram below,

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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IP [] [Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A	
Temperature:	23 ℃	Relative Humidity:	58 %	
Pressure:	1004 hPa	Test Power :	AC 24V	
Test Mode :	Zigbee mode /CH01, CH08, CH16			

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2405	16.65	30	1
CH08	2440	17.34	30	1
CH16	2480	-1.68	30	1

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 06, 2010

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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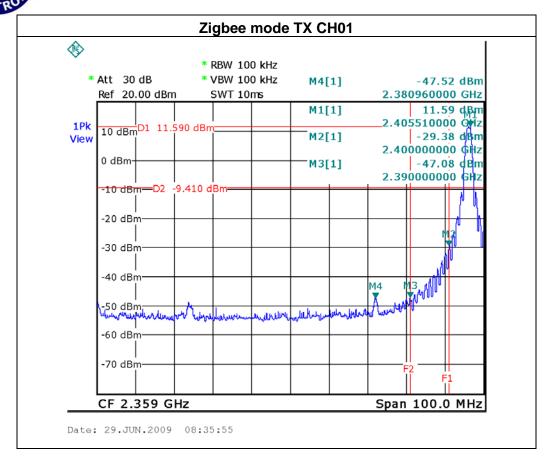
 	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1004 hPa	Test Power :	AC 24V
Test Mode :	Zigbee mode CH01, CH16		

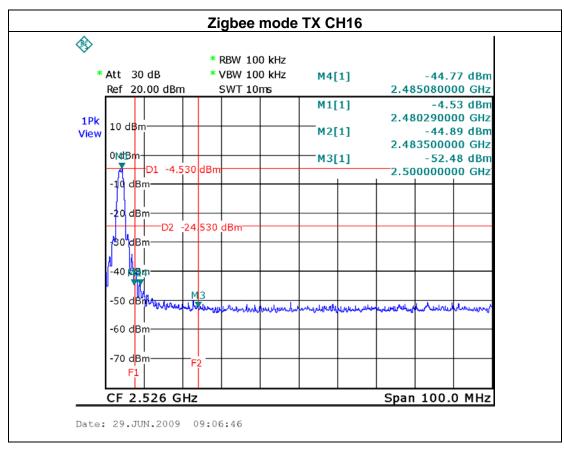
Channel of Worst Data: CH01				
	cy power in any 100kHz the frequency band	The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2390.00	-47.08	2485.08	-44.77	
Result				

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

	Applied procedures / limit					
	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Frequency Range (MHz)	Result			
15.247 (d)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 06, 2010

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=30 KHz, Sweep time = 500s.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



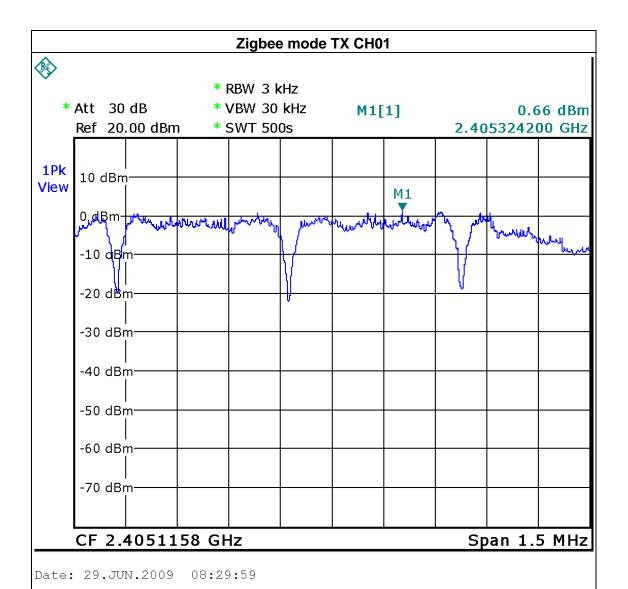
8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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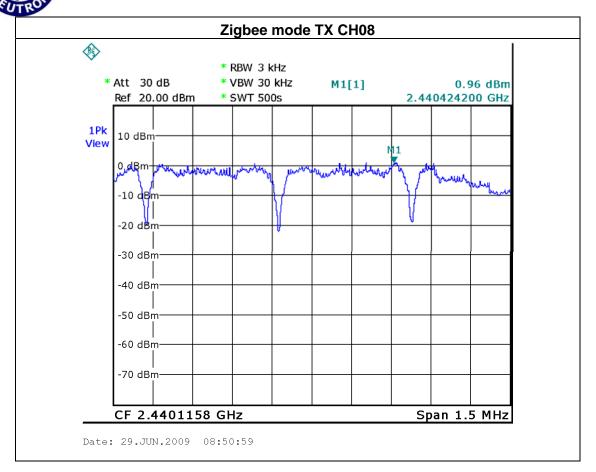
HUI.	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1004 hPa	Test Power :	AC 24V
Test Mode :	Zigbee mode /CH01, CH08, CH16		

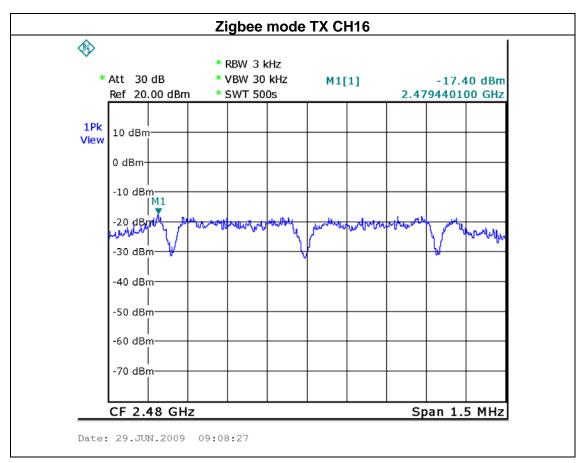
Test Channel	Frequency (MHz)	Peak Power Density (dBm)	LIMIT (dBm)
CH01	2405	0.66	8
CH08	2440	0.96	8
CH16	2480	-17.40	8



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9. RF EXPOSURE TEST

9.1 APPLIED PROCEDURES / LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ²or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

9.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 06, 2010

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

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9.1.2 MPE CALCULATION METHOD

$$E (V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $Pd (W/m^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

EUT SPECTRUM ANALYZER

9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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	Programmable Thermostat with EM260 Zigbee	Model Name :	8TD726A
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 24V
Test Mode :	Zigbee mode CH01, CH08, CH16		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
-0.32	0.9290	16.65	46.2381	0.008550	1	Complies
-0.32	0.9290	17.34	54.2001	0.010022	1	Complies
-0.32	0.9290	-1.68	0.6792	0.000126	1	Complies

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10. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos





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