

Prüfbericht-Nr.: 50058975 001 Auftrags-Nr.: 164071800 Seite 1 von 84 Test Report No.: Order No.: Page 1 of 84 Kunden-Referenz-Nr.: N/A Auftragsdatum: 19.08.2016 Client Reference No .: Order date: Anfair Electronics Plastic Factor Auftraggeber: 182 Qingzhang Road, Chang Shan Tou, QingXi Town, Dongguan, China Client: Prüfgegenstand: Bluetooth Receiver Test item: Bezeichnung / Typ-Nr.: NS-CAHBTAD, NS-CAHBTAD-C Identification / Type No.: (INSIGNIA) Auftrags-Inhalt: FCC/IC Certification Order content: Prüfgrundlage: CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 Test specification: CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.107 FCC KDB Publication 447498 D01 v06 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-247 Issue 1 May 2015 RSS-Gen Issue 4 November 2014 ICES-003 Issue 6 January 2016 RSS-102 Issue 5 March 2015 Wareneingangsdatum: 25.08.2016 Date of receipt: Prüfmuster-Nr.: A000409662-001, A000409662-002 Test sample No.: 02.09.2016 - 25.10.2016 Prüfzeitraum: Testing period: Ort der Prüfung: Shenzhen EMTEK Co., Ltd. Place of testing: Prüflaboratorium: TÜV Rheinland (Shenzhen) Co., Ltd. Testing laboratory: Prüfergebnis*: **Pass** Test result*: kontrolliert von I reviewed by: geprüft von I tested by: a Owen Tian/Technical Certifier 28.10.2016 Andy Yan/Project Manager 28.10.2016 Name / Stellung Datum Unterschrift Datum Name / Stellung Unterschrift Date Name / Position Signature Date Name / Position Signature FCC ID: 2AEI7CAHBTAD Sonstiges I Other: IC: 9697A-CAHBTAD Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Test item complete and undamaged Condition of the test item at delivery:

* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mange!haft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet 3 = satisfactory 4 = sufficient Legend: 1 = very good 2 = good5 = poorP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be

duplicated in extracts. This test report does not entitle to carry any test mark.



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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 20DB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH

RESULT: Pass

5.1.5 Spurious Emission

RESULT: Pass

5.1.6 FREQUENCY SEPARATION

RESULT: Pass

5.1.7 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.8 TIME OF OCCUPANCY

RESULT: Pass

5.1.9 CONDUCTED EMISSIONS

RESULT: Pass

5.1.10 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)

(Test site Industry Canada No.: 4480A-2)

Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.



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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Туре	S/N	Calibrated until
Transmitter spurious emis				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2017-05-16
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2017-05-16
Cable	H+B	3M SF104-26.5	295838/4	2017-05-28
Cable	H+B	6M SF104-26.5	295840/4	2017-05-28
Pre-Amplifier	HP	8447F	2944A07999	2017-05-16
Bilog Antenna	Schwarzbeck	VULB9163	142	2017-05-28
Cable	Schwarzbeck	AK9513	ACRX1	2017-05-16
Cable	Rosenberger	N/A	FP2RX2	2017-05-16
Cable	Schwarzbeck	AK9513	CRPX1	2017-05-28
Cable	Schwarzbeck	AK9513	CRRX2	2017-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2017-05-16
Horn Antenna	Schwarzbeck	BBHA 9120	707	2017-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2017-05-16
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2017-05-16
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2017-05-16
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2017-05-16
Horn Antenna	AHS/USA	SAS-573	184	2017-05-16
Cable	H+B	0.5M SF104- 26.5	289147/4	2017-05-16
Cable	H+B	3M SF104-26.5	295838/4	2017-05-16
Cable	H+B	6M SF104-26.5	295840/4	2017-05-16
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2017-05-16
Vector Signal Generater	Agilent	N5182B	My53050553	2017-05-28
Analog Signal Generator	Agilent	N5171B	My53050878	2017-05-28
Signal Analyzer	Agilent	N9010A	My53470879	2017-05-28
Power Meter	Agilent	PS-X10-100	N/A	2017-05-28
Temp. / Humidity Chamber	Kingson	THS-M1	242	2017-05-28

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

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2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

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3. General Product Information

3.1 Product Function and Intended Use

The EUTs are Bluetooth receiver for headphone. All models are identical except the model name. For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth

Technical Specification	Value
Kind of Equipment	Bluetooth Receiver
Type Designation	NS-CAHBTAD, NS-CAHBTAD-C
FCC ID	2AEI7CAHBTAD
IC	9697A-CAHBTAD
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-10~+70°C
Operation Voltage	DC 3.7V (via Li-ion battery)
Modulation	FHSS, GFSK, 8DPSK, π/4DQPSK
Bluetooth version	4.2, Single Mode
Antenna Gain	1.5dBi

Table 4: RF channel and frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)		Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00



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12	2414.00	33	2435.00	54	2456.00	75	2477.00	
13	2415.00	34	2436.00	55	2457.00	76	2478.00	
14	2416.00	35	2437.00	56	2458.00	77	2479.00	
15	2417.00	36	2438.00	57	2459.00	78	2480.00	
16	2418.00	37	2439.00	58	2460.00		•	
17	2419.00	38	2440.00	59	2461.00			
18	2420.00	39	2441.00	60	2462.00			
19	2421.00	40	2442.00	61	2463.00			
20	2422.00	41	2443.00	62	2464.00			

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3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth mode
 - a. Tansmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
 - 2. Charging only
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document

- Circuit Diagram
- Instruction Manual
- Rating Label



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4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

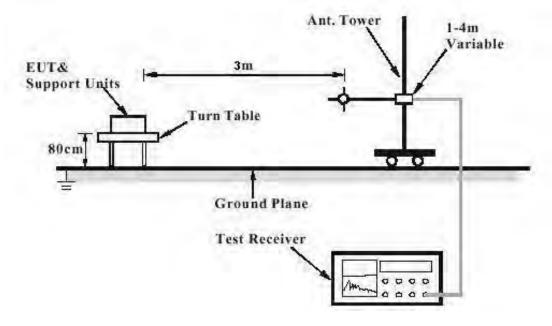


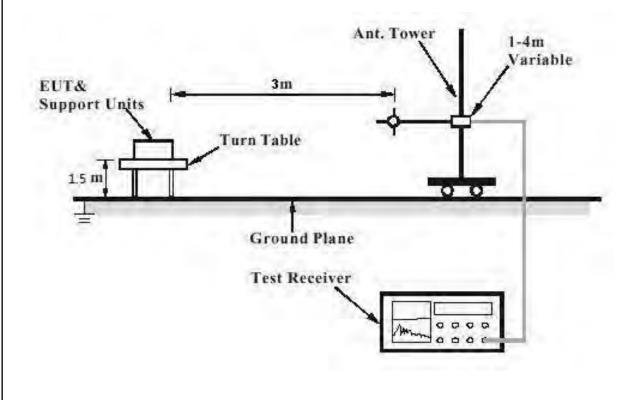
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4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test







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Diagram of Measurement Equipment Configuration for Conduction Measurement

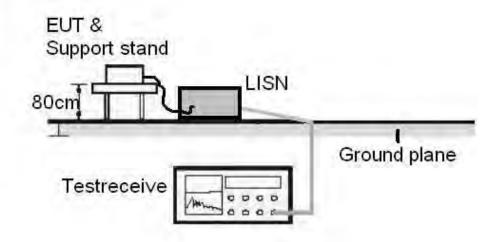
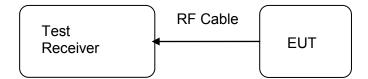


Diagram of Measurement Equipment Configuration for Transmitter Measurement



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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test standard : Part 15.203

RSS-Gen Clause 8.3

Limit The use of antennas with directional gains that do

not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.5dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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5.1.2 Peak Output Power

RESULT: Pass

2016-09-02 Test date

FCC Part 15.247(b)(1) Test standard

RSS-247 clause 5.4(2)

Basic standard : ANSI C63.10: 2013

Clause 9.1 of KDB 558074 v03r01

1W Limit

Kind of test site Shielded room

Test setup

Low/ Middle/ High

Operation Mode :
Ambient temperature :
Relative humidity :
Atmospheric pressure A.1.a **25**℃ 50% 101kPa

Table 5: Test result of Peak Output Power of Buletooth (BDR mode)

Channel	Channel Frequency	Peak Output Power	Limit
Chamilei	(MHz)	(dBm)	(dBm)
Low Channel	2402	-1.05	30
Middle Channel	2441	-1.11	30
High Channel	2480	-1.48	30

Table 6: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency	Peak Output Power	Limit
Channel	(MHz)	(dBm)	(dBm)
Low Channel	2402	0.31	30
Middle Channel	2441	0.26	30
High Channel	2480	-0.05	30



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5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT: Pass

Date of testing 2016-09-05

Test standard FCC Part 15.247(a)(1)

RSS-247 clause 5.1(2) RSS-Gen clause 6.6

ANSI C63.10: 2013

Clause 8 of KDB 558074 v03r01

Kind of test site Shielded room

Test setup

Basic standard

Test Channel Low/ Middle/ High

Test Channel : Operation Mode : Ambient temperature : A.1.a **25**℃ Relative humidity 50% Atmospheric pressure : 101kPa

Table 7: Test result of 20dB and 99% Bandwidth of BDR mode

Channel	Channel Frequency	20dB Bandwidth	99% Bandwidth
Onamici	(MHz)	(MHz)	(MHz)
Low Channel	2402	1.042	0.925
Mid Channel	2441	1.042	0.925
High Channel	2480	1.042	0.929

Table 8: Test result of 20dB and 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.303	1.181
Mid Channel	2441	1.303	1.181
High Channel	2480	1.303	1.181



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5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth

RESULT: Pass

Date of testing : 2016-09-05

Test standard : FCC part 15.247(d)

RSS-247 clause 5.5

Basic standard : ANSI C63.10: 2013

Limit : 20dB (below that in the 100kHz bandwidth within

the band that contains the highest level of the

desired power);

Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High

Operation mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 50%

Atmospheric pressure : 101kPa

For details refer to following test plot.

Products

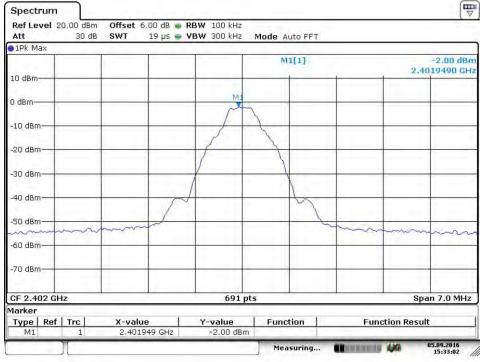
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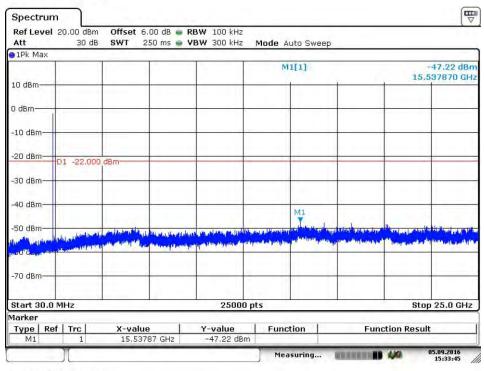
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Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low Channel



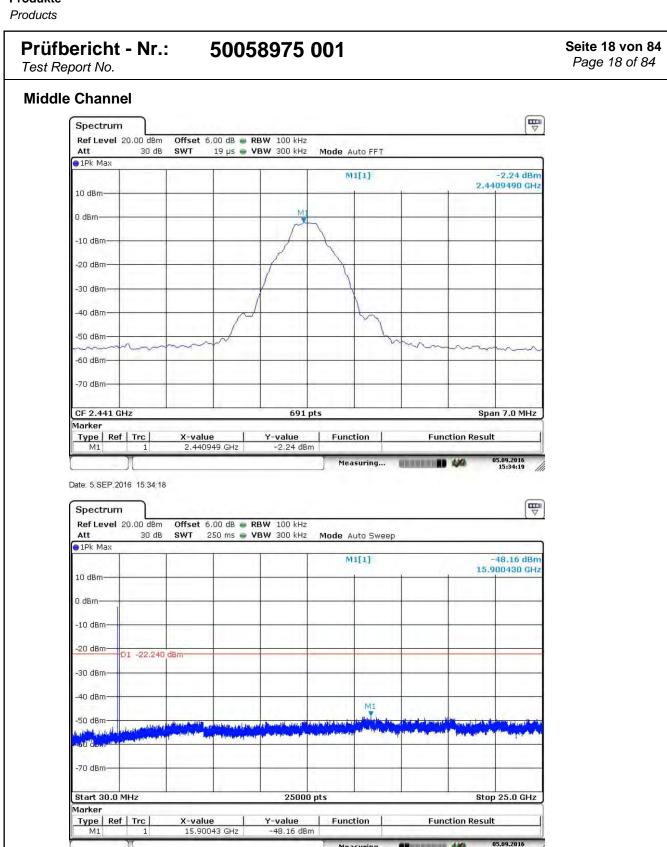
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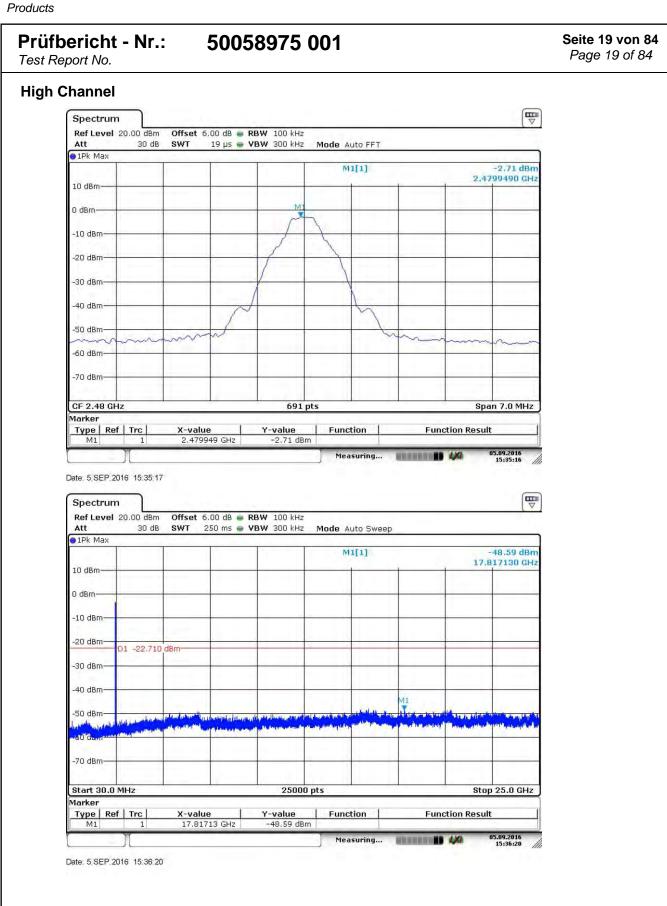
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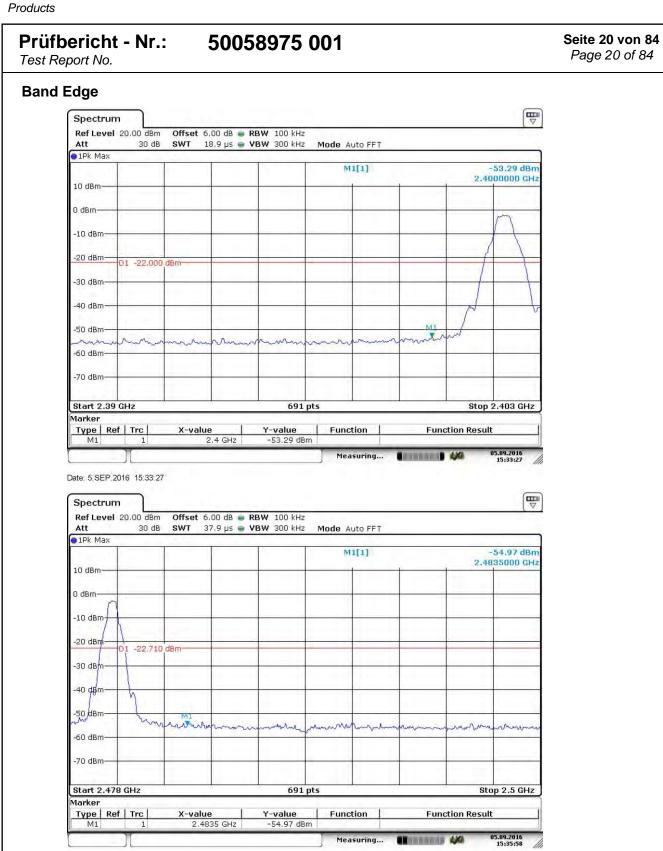








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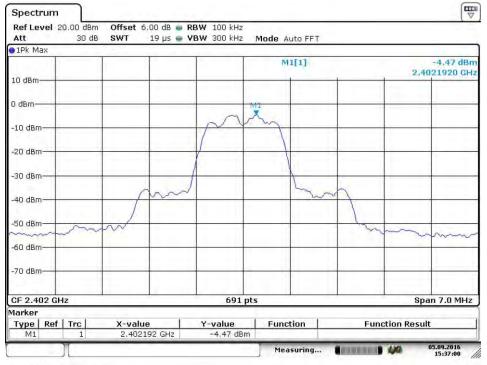
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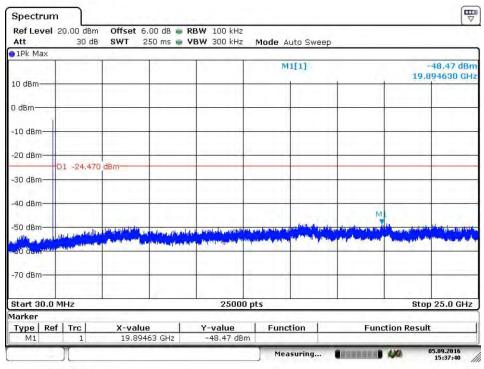
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Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low Channel

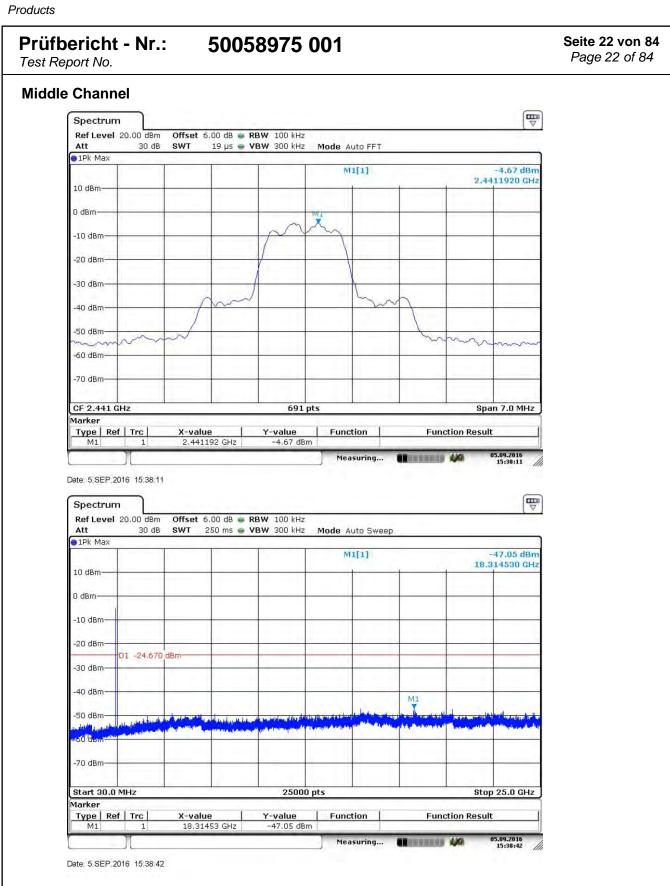


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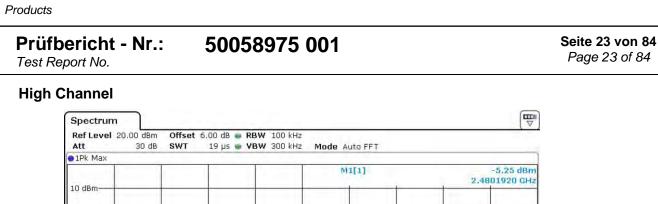


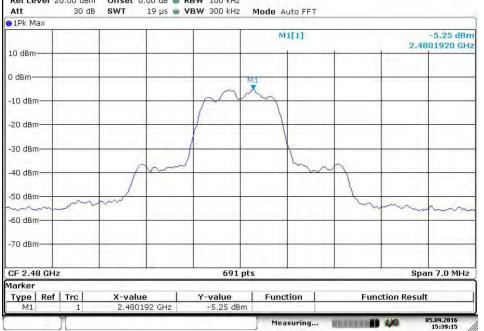
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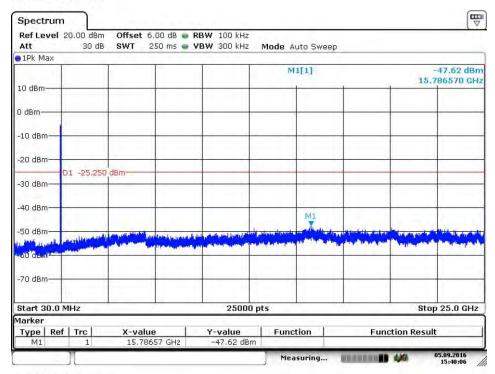








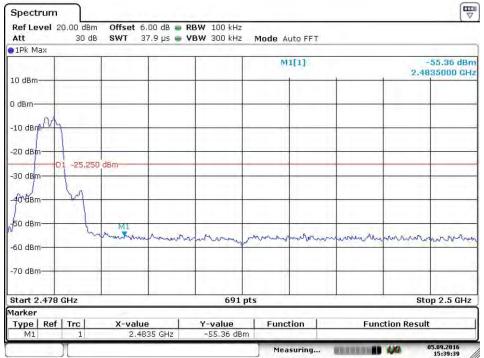
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Date: 5,SEP.2016 15:39:38



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5.1.5 Spurious Emission

RESULT: Pass

Date of testing 2016-09-14 to 2016-09-17

Test standard FCC part 15.247(d)

RSS-Gen

Basic standard ANSI C63.10: 2013

Clause 11 of KDB 558074 v03r01

Limits FCC part 15.209(a)

Kind of test site 3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test Channel Low/ Middle/ High

Operation mode :
Ambient temperature :
Relative humidity :
Atmospheric pressure : A.1.a **24**℃ 53% 101kPa

For details refer to following test plot.



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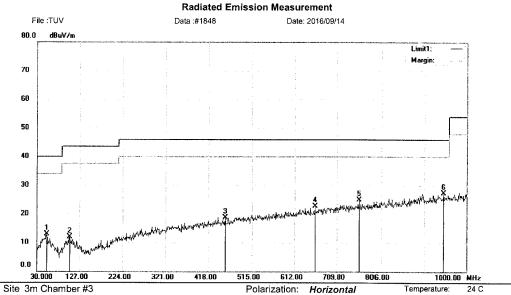
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Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282





Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity:

53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		52.3100	27.62	-14.77	12.85	40.00	-27.15	QP			
2		103.7200	27.19	-15.29	11.90	43.50	-31.60	QP			
3		455.8300	27.61	-8.82	18.79	46.00	-27.21	QP			
4		658.5600	27.59	-4.88	22.71	46.00	-23.29	QP	7.00		
5		759.4400	28.15	-3.31	24.84	46.00	-21.16	QP			775 5085
6	*	947.6200	27.97	-0.75	27.22	46.00	-18.78	QP			

x:Over limit !:over margin *:Maximum data

File: TUV\Data:#1848

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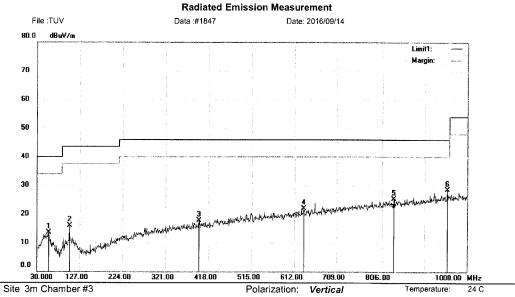
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Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Temperature: 24 C Humidity: 53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.1900	28.66	-15.24	13.42	40.00	-26.58	QP			
2		103.7200	31.24	-15.29	15.95	43.50	-27.55	QP			
3	;	396.6600	27.16	-9.48	17.68	46.00	-28.32	QP			
4	- (633.3400	27.28	-5.29	21.99	46.00	-24.01	QP		_	
5		832.1900	27.65	-2.31	25.34	46.00	-20.66	QP			
6	* 9	955.3800	29.18	-0.63	28.55	46.00	-17.45	QP			-

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#1847

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Products

Prüfbericht - Nr.:

Test Report No.

50058975 001

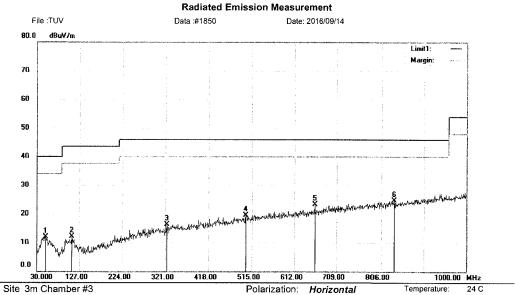
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Shenzhen EMTEK Co., Ltd. Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode: GFSK 2441

Note:

No.	Mk			/lk. Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment			
1		50.3700	26.55	-14.55	12.00	40.00	-28.00	QP						
2	,	109.5400	27.47	-15.38	12.09	43.50	-31.41	QP	V-1-16					
3		323.9100	27.40	-11.03	16.37	46.00	-29.63	QP						
4		501.4200	26.97	-7.41	19.56	46.00	-26.44	QP						
5		658.5600	28.09	-4.88	23.21	46.00	-22.79	QP						
6	*	835.1000	26.96	-2.28	24.68	46.00	-21.32	QP						

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#1850

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Products

Prüfbericht - Nr.:

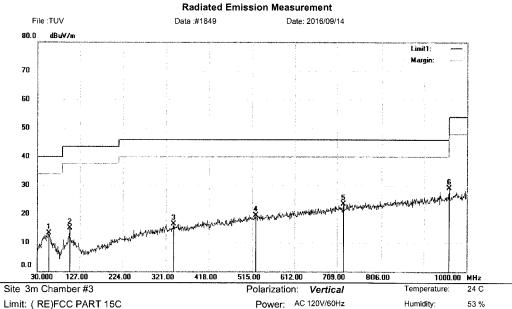
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Limit: (RE)FCC PART 15C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Note:

Mode:GFSK 2441

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.1900	28.47	-15.24	13.23	40.00	-26.77	QP	*/-		
2	1	103.7200	30.40	-15.29	15.11	43.50	-28.39	QP			-
3	3	338.4600	26.79	-10.28	16.51	46.00	-29.49	QP			
4	5	522.7600	26.64	-7.06	19.58	46.00	-26.42	QP			11.000
5	* 7	723.5500	27.26	-3.84	23.42	46.00	-22.58	QP			
6	ç	960.2300	29.59	-0.55	29.04	54.00	-24.96	QP			

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#1849

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Produkte Products

Prüfbericht - Nr.:

Test Report No.

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Shenzhen EMTEK Co., Ltd.

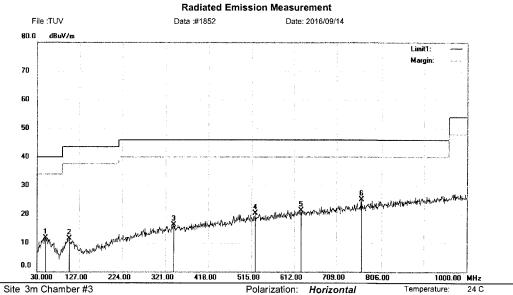
Power: AC 120V/60Hz

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Humidity:

53 %



Limit: (RE)FCC PART 15C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		50.3700	26.28	-14.55	11.73	40.00	-28.27	QP				
2	1	03.7200	26.82	-15.29	11.53	43.50	-31.97	QP				
3	3	39.4300	26.54	-10.23	16.31	46.00	-29.69	QP		•		
4	5	23.7300	27.27	-7.05	20.22	46.00	-25.78	QP				
5	6	27.5200	26.78	-5.40	21.38	46.00	-24.62	QP			~~~	
6	* 7	65.2600	28.30	-3.23	25.07	46.00	-20.93	QP			72.111	

x:Over limit !:over margin *:Maximum data

File:TUV\Data:#1852

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Products

Prüfbericht - Nr.:

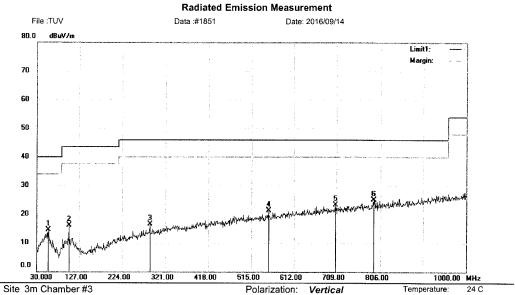
Test Report No.

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Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.1900	29.69	-15.24	14.45	40.00	-25.55	QP	·		
2	•	103.7200	31.35	-15.29	16.06	43.50	-27.44	QP			
3	- 2	286.0800	28.59	-12.10	16.49	46.00	-29.51	QP			
4	ŧ	553.8000	27.87	-6.58	21.29	46.00	-24.71	QP			
5	7	707.0600	27.30	-4.09	23.21	46.00	-22.79	QP			
6	* 7	790.4800	28.04	-2.86	25.18	46.00	-20.82	QP	***************************************		

*:Maximum data x:Over limit !:over margin

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Produkte Products

Prüfbericht - Nr.:

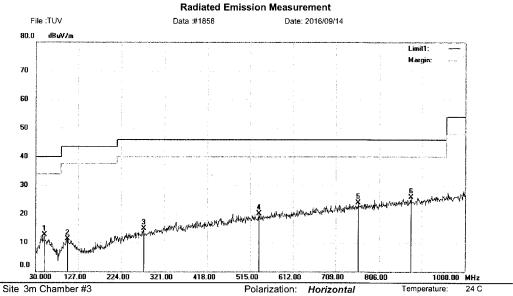
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Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity:

53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Table Height Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		49.4000	27.03	-14.27	12.76	40.00	-27.24	QP	·······		
2		102.7500	26.70	-15.30	11.40	43.50	-32.10	QP	-		
3		274.4400	27.49	-12.51	14.98	46.00	-31.02	QP			
4		534.4000	26.90	-6.88	20.02	46.00	-25.98	QP			
5		760.4100	27.12	-3.31	23.81	46.00	-22.19	QP			
6	* 8	878.7500	27.69	-1.73	25.96	46.00	-20.04	QP			

x:Over limit !:over margin *:Maximum data

File:TUV\Data:#1858

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Products

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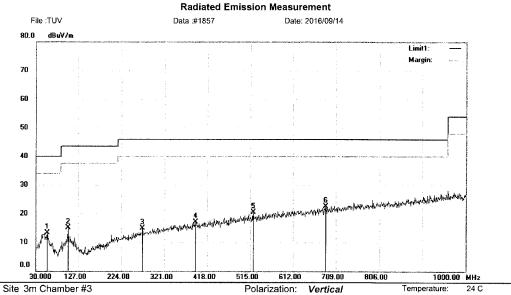
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Humidity:

53 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15C

EUT: Bluetooth Receiver
M/N: NS-CAHBT
Mode:8DPSK 2402

Note:

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.1900	28.62	-15.24	13.38	40.00	-26.62	QP		~	
2		103.7200	30.32	-15.29	15.03	43.50	-28.47	QP	-		
3		271.5300	27.43	-12.59	14.84	46.00	-31.16	QP			
4		391.8100	26.75	-9.66	17.09	46.00	-28.91	QP			
5		521.7900	27.57	-7.08	20.49	46.00	-25.51	QP			
6	*	686.6900	27.00	-4,41	22.59	46.00	-23.41	QP			

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#1857

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Products

Prüfbericht - Nr.:

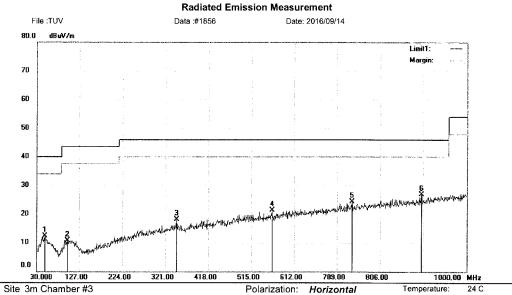
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Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity:

53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		48.4300	26.16	-13.90	12.26	40.00	-27.74	QP			
2		100.8100	26.04	-15.27	10.77	43.50	-32.73	QP			
3	;	346.2200	28.41	-10.30	18.11	46.00	-27.89	QP		***	
4		561.5600	27.84	-6.46	21.38	46.00	-24.62	QP		~	
5		742.9500	27.92	-3.56	24.36	46.00	-21.64	QP			****
6	* {	899.1200	28.47	-1.47	27.00	46.00	-19.00	QP			

*:Maximum data x:Over limit !:over margin

File: TUV\Data:#1856

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Products

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Shenzhen EMTEK Co., Ltd.

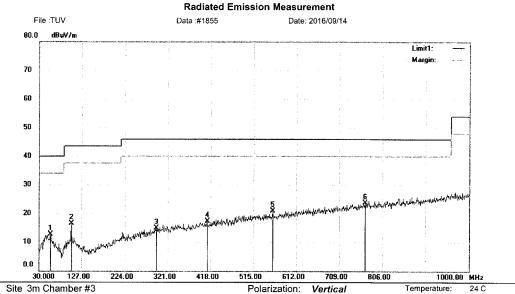
Power: AC 120V/60Hz

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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2441

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.1900	27.92	-15.24	12.68	40.00	-27.32	QP			- 800
2		103.7200	31.73	-15.29	16.44	43.50	-27.06	QP			
3		295.7800	26.57	-11.69	14.88	46.00	-31.12	QP			
4		410.2400	26.56	-9.33	17.23	46.00	-28.77	QP			
5		557.6800	27.50	-6.52	20.98	46.00	-25.02	QP			
6	*	767.2000	26.86	-3.20	23.66	46.00	-22.34	QP			

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#1855

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Produkte Products

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Shenzhen EMTEK Co., Ltd.

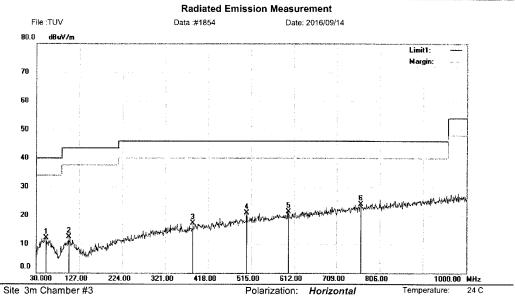
Power: AC 120V/60Hz

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53 %

Humidity:



Limit: (RE)FCC PART 15C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:8DPSK 2480

Note:

No.	Mk.	. Freq.			Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment		
1	*********	52.3100	26.84	-14.77	12.07	40.00	-27.93	QP					
2	1	103.7200	27.82	-15.29	12.53	43.50	-30.97	QP			17 TO Mark		
3	3	384.0500	27.32	-9.94	17.38	46.00	-28.62	QP					
4	5	505.3000	28.16	-7.34	20.82	46.00	-25.18	QP					
5	5	599.3900	27.20	-5.86	21.34	46.00	-24.66	QP					
6	* 7	763.3200	27.22	-3.27	23.95	46.00	-22.05	QP		***************************************			

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File: TUV\Data:#1854

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Products

Prüfbericht - Nr.:

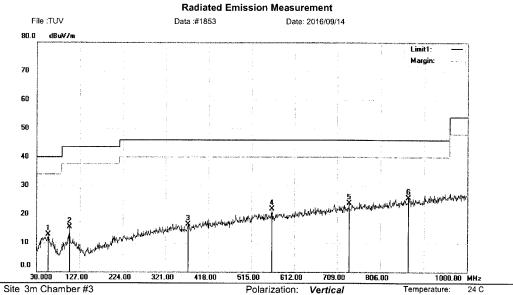
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Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity:

53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		56.1900	28.24	-15.24	13.00	40.00	-27.00	QP			
2		103.7200	30.83	-15.29	15.54	43.50	-27.96	QP			7.5061
3		371.4400	26.87	-10.28	16.59	46.00	-29.41	QP			*******
4	:	560.5900	28.31	-6.47	21.84	46.00	-24.16	QP			
5		736.1600	27.67	-3.67	24.00	46.00	-22.00	QP	new many		
6	* ;	869.0500	27.46	-1.85	25.61	46.00	-20.39	QP			2000

x:Over limit !:over margin *:Maximum data

File:TUV\Data:#1853

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Test Report No.

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Shenzhen EMTEK Co., Ltd.

Polarization: Horizontal

Power: AC 120V/60Hz

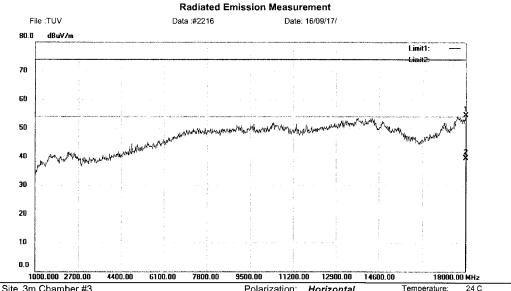
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Temperature:

53 %

Humidity:



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:GFSK 2402

Note:

No. M	Λk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	·	Antenna Height		
	***	MHz	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	18	8000.00	-4.05	58.52	54.47	74.00	-19.53	peak			TO ANALYS
2 *	18	8000.00	-19.02	58.52	39.50	54.00	-14.50	AVG			

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2216

Page: 1



Prüfbericht - Nr.:

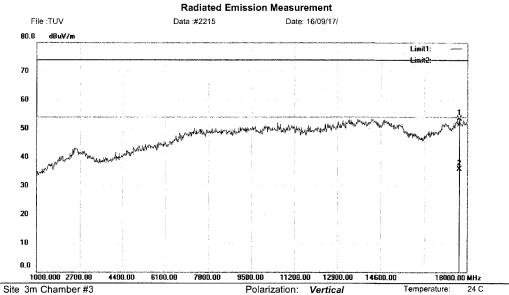
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Limit: (RE)FCC PART 15 C

Polarization: Vertical Power: AC 120V/60Hz

Humidity:

53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2402

Note:

No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	d₿	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17694.00	-3.03	56.47	53.44	74.00	-20.56	peak			
2	*	17694.00	-20.57	56.47	35.90	54.00	-18.10	AVG			



Products

Prüfbericht - Nr.:

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Test Report No.

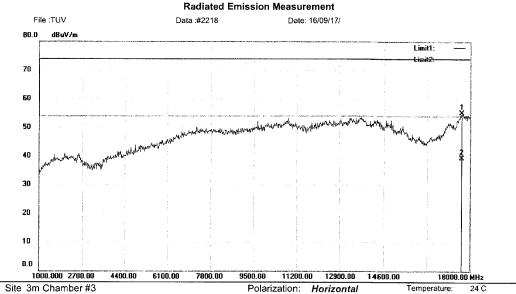
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Humidity:

53 %



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver
M/N: NS-CAHBT
Mode:GFSK 2441

Note:

No.	М	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17	7660.00	-1.06	56.24	55.18	74.00	-18.82	peak			4004
2	×	17	7660.00	-16.84	56.24	39.40	54.00	-14.60	AVG		- CONTRACTOR	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#2218 Page: 1



Products

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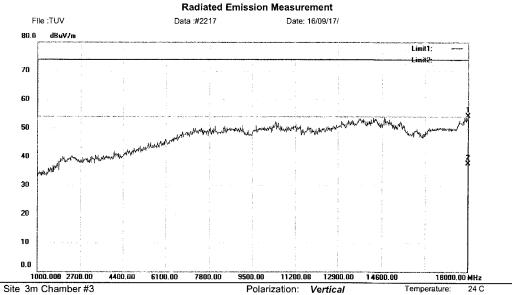
Test Report No.

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Humidity:

53 %



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2441

Note:

No.	M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1	8000.00	-4.17	58.52	54.35	74.00	-19.65	peak	- 111		
2	*	1	8000.00	-20.72	58.52	37.80	54.00	-16.20	AVG			

Power: AC 120V/60Hz

x:Over limit !:over margin *:Maximum data

File: TUV\Data:#2217

Page: 1



Prüfbericht - Nr.:

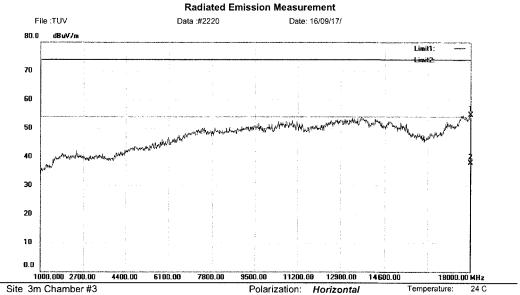
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Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2480

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		18000.00	-3.85	58.52	54.67	74.00	-19.33	peak			
2		18000.00	-20.62	58.52	37.90	54.00	-16.10	AVG			

Power: AC 120V/60Hz

x:Over limit !:over margin *:Maximum data

File:TUV\Data:#2220

Page: 1

Operator: CSL

Humidity:

53 %



Products

Prüfbericht - Nr.:

50058975 001

Test Report No.

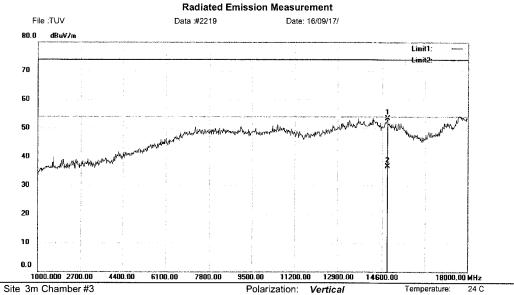
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Humidity:

53 %



Limit: (RE)FCC PART 15 C

Limit: (RE)FCC PART 15 C EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:GFSK 2480

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14804.00	1.07	52.42	53.49	74.00	-20.51	peak			
2	*	14804.00	-15.72	52.42	36.70	54.00	-17.30	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV\Data:#2219

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Products

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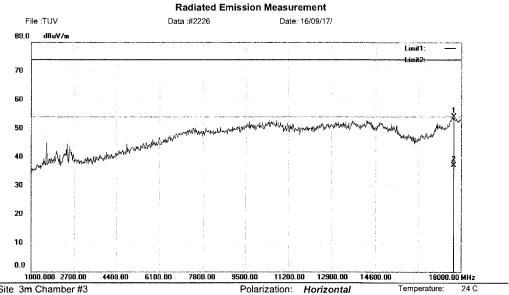
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:8DPSK 2402

Note:

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		177	11.00	-2.53	56.58	54.05	74.00	-19.95	peak			
2	*	177	11.00	-19.38	56.58	37.20	54.00	-16.80	AVG			

Power: AC 120V/60Hz

x:Over limit !:over margin *:Maximum data

File: TUV\Data:#2226

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Products

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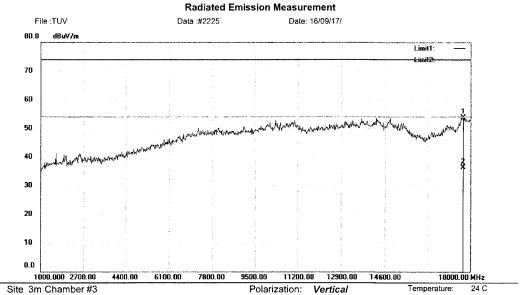
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Humidity:

53 %



Limit: (RE)FCC PART 15 C EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:8DPSK 2402

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dΒ	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		17711.00	-2.95	56.58	53.63	74.00	-20.37	peak	100		
2	*	17711.00	-20.28	56.58	36.30	54.00	-17.70	AVG	*		

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#2225

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Products

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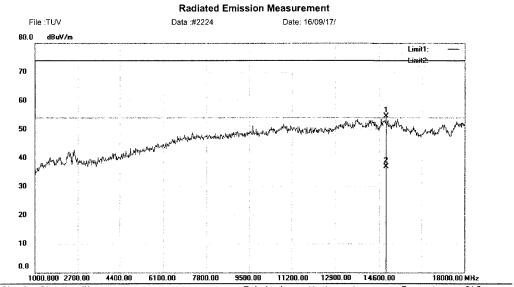
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Site 3m Chamber #3 Limit: (RE)FCC PART 15 C Polarization: Horizontal Power: AC 120V/60Hz

Temperature: 24 C Humidity: 53 %

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2441

Note:

No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		14872.00	2.09	52.37	54.46	74.00	-19.54	peak			
2	*	14872.00	-15.47	52.37	36.90	54.00	-17.10	AVG			

x:Over limit !:over margin *:Maximum data

File: TUV\Data:#2224

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Products

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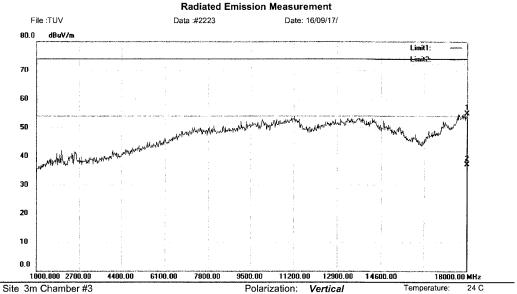
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Humidity:

53 %



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver
M/N: NS-CAHBT
Mode:8DPSK 2441

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		18000.00	-3.67	58.52	54.85	74.00	-19.15	peak		•	PAR 14.00 A.10	
2	*	18000.00	-21.32	58.52	37.20	54.00	-16.80	AVG				

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2223

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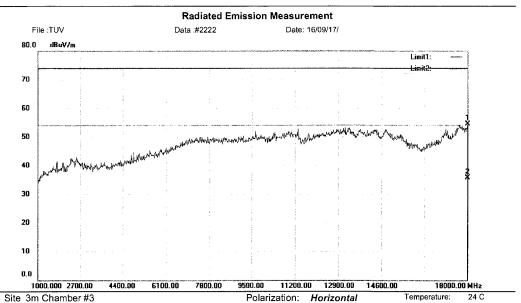
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:8DPSK 2480

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		18000.00	-4.05	58.52	54.47	74.00	-19.53	peak			
2	*	18000.00	-22.82	58.52	35.70	54.00	-18.30	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV\Data: #2222

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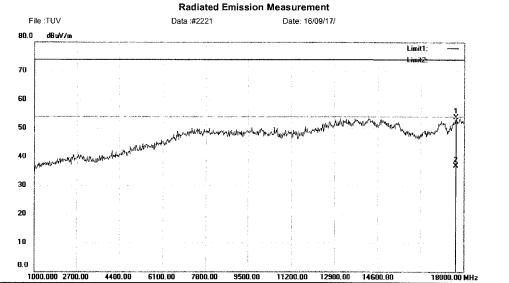


Temperature:

Humidity:

24 C

53 %



Polarization: Vertical

Power: AC 120V/60Hz

Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:8DPSK 2480

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		17694.00	-2.53	56.47	53.94	74.00	-20.06	peak			· · · · · · · · · · · · · · · · · · ·
2		17694.00	-19.57	56.47	36.90	54.00	-17.10	AVG			

*:Maximum data x:Over limit !:over margin



Products

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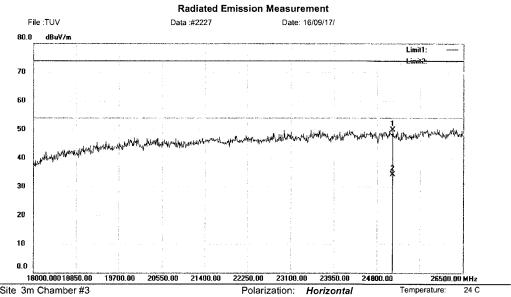
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Humidity:

53 %



Site 3m Chamber #3 Limit: (RE)FCC PART 15 C

Limit: (RE)FCC PART 15 C EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:GFSK 2402

Note:

No.	М	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		25	114.50	86.77	-36.87	49.90	74.00	-24.10	peak		0	
2	*	25	114.50	71.13	-36.87	34.26	54.00	-19.74	AVG		0	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#2227

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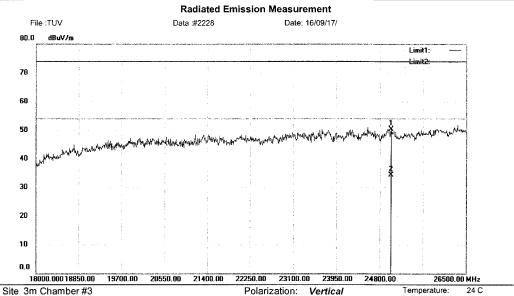
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Humidity:

Operator: KK



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2402

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25021.00	87.36	-36.98	50.38	74.00	-23.62	peak		0	
2	*	25021.00	71.21	-36.98	34.23	54.00	-19.77	AVG		0	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV\Data:#2228



Products

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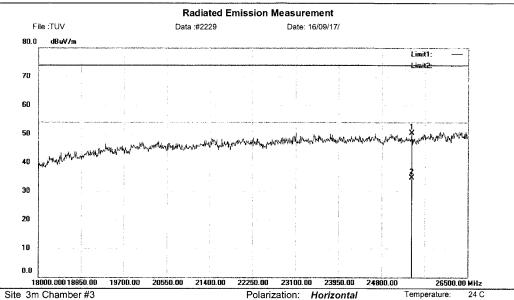
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Humidity:

Operator: KK



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2441

Note:

No.	Mŀ	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25395.00	86.88	-36.53	50.35	74.00	-23.65	peak		0	
2	*	25395.00	71.15	-36.53	34.62	54.00	-19.38	AVG		0	

Power: AC 120V/60Hz



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Power: AC 120V/60Hz

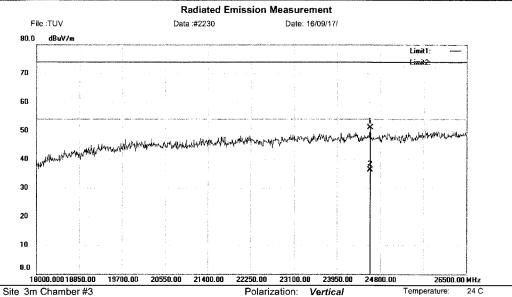
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Humidity:

Operator: KK

53 %



Limít: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:GFSK 2441

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24613.00	88.11	-37.06	51.05	74.00	-22.95	peak		0	
2	*	24613.00	73.29	-37.06	36.23	54.00	-17.77	AVG	10	0	



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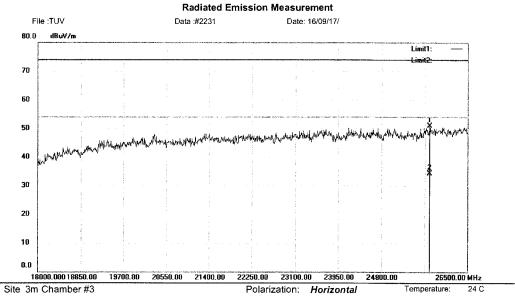
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Humidity:

Operator: KK

53 %



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode: GFSK 2480

Note:

No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBuV	d₿	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment	
1		25743.50	86.93	-36.10	50.83	74.00	-23.17	peak		0		****
2	*	25743.50	70.36	-36.10	34.26	54.00	-19.74	AVG		0		

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File: TUV\Data:#2231



Products

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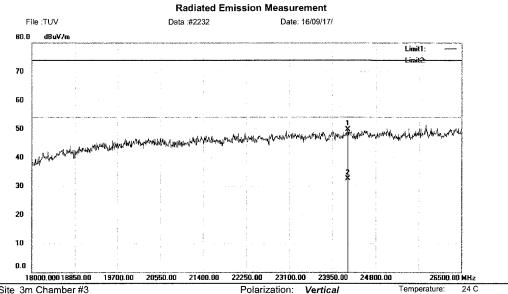
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Test Report No.

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Site 3m Chamber #3 Limit: (RE)FCC PART 15 C Polarization: Vertical
Power: AC 120V/60Hz

Temperature: 24 C Humidity: 53 %

Operator: KK

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2480

Note:

No.	Mi	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24273.00	86.79	-37.10	49.69	74.00	-24.31	peak		0	
2	*	24273.00	69.66	-37.10	32.56	54.00	-21.44	AVG		0	



Products

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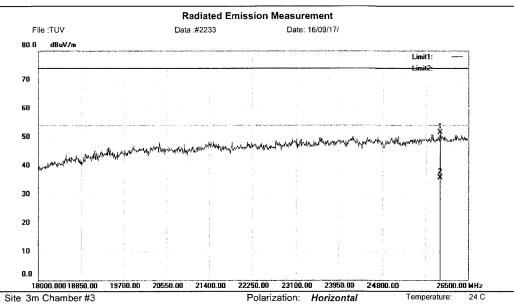
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Humidity:

Operator: KK

53 %



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver
M/N: NS-CAHBT

Mode:8DPSK 2402

Note:

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25	5939.00	87.43	-35.86	51.57	74.00	-22.43	peak		0	
2	*	25	939.00	71.48	-35.86	35.62	54.00	-18.38	AVG		0	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2233



Products

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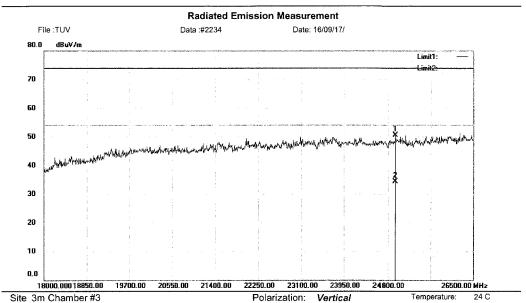
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Humidity:

Operator: KK

53 %



Limit: (RE)FCC PART 15 C

Limit: (RE)FCC PART 15 (
EUT: Bluetooth Receiver
M/N: NS-CAHBT

Mode:8DPSK 2402

Note:

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24	944.50	87.53	-37.02	50.51	74.00	-23.49	peak		0	
2	*		944.50	71.28	-37.02	34.26	54.00	-19.74	AVG		0	

Power: AC 120V/60Hz



Products

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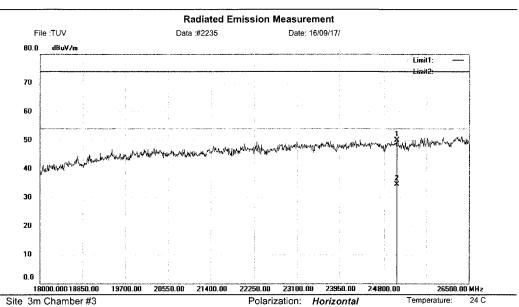
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2441

Note:

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25	5055.00	86.88	-36.94	49.94	74.00	-24.06	peak		0	
2	*	25	5055.00	71.45	-36.94	34.51	54.00	-19.49	AVG		0	

Power: AC 120V/60Hz

x:Over limit !:over margin *:Maximum data

File: TUV\Data:#2235

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Products

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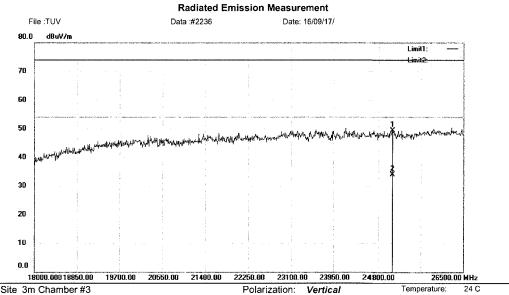
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:8DPSK 2441

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		25072.00	86.32	-36.92	49.40	74.00	-24.60	peak		0	***************************************
2	*	25072.00	70.87	-36.92	33.95	54.00	-20.05	AVG		0	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

Operator: KK

File:TUV\Data:#2236



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Power: AC 120V/60Hz

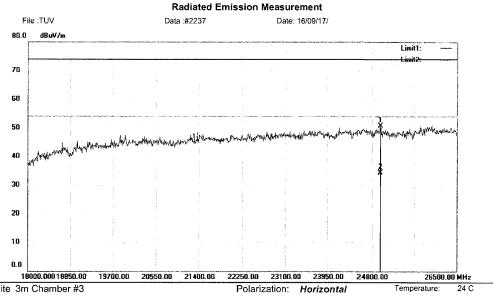
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Humidity:

Operator: KK

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

Note:

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2480

No.	MH	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		24961.50	87.66	-37.01	50.65	74.00	-23.35	peak		0	
2	*	24961.50	71.27	-37.01	34.26	54.00	-19.74	AVG		0	



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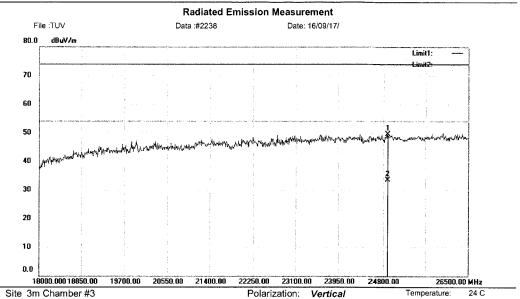
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2480

Note:

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		24	885.00	86.60	-37.02	49.58	74.00	-24.42	peak		0	
2	*	24	885.00	70.61	-37.02	33.59	54.00	-20.41	AVG	~_	0	

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

Page: 1

Operator: KK

File: TUV\Data:#2238



Products

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Test Plot of Band Edge

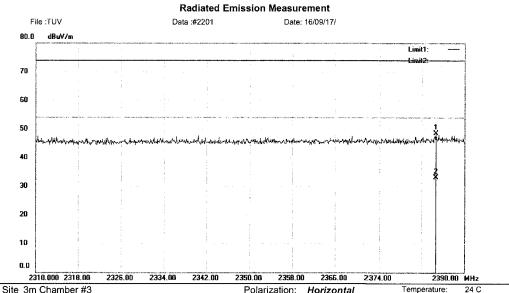
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24 C

53 %

Humidity:



Polarization: Horizontal

Power: AC 120V/60Hz

Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:GFSK 2402

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		2384.720	18.23	30.25	48.48	74.00	-25.52	peak				
2	*	2384.720	2.85	30.25	33.10	54.00	-20.90	AVG				

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2201

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Products

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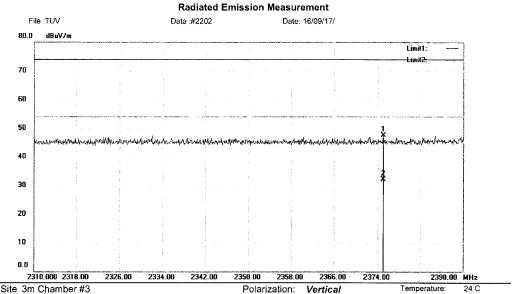
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Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:GFSK 2402

Note:

No.	M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		23	74.960	17.26	30.20	47.46	74.00	-26.54	peak			
2	*	23	74.960	1.90	30.20	32.10	54.00	-21.90	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2202

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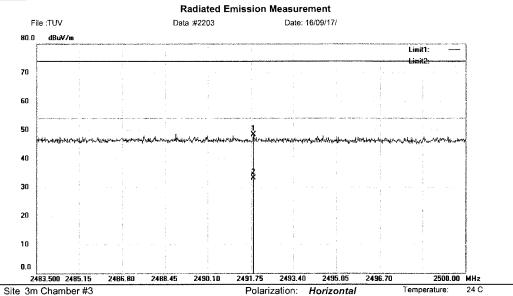
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Humidity:



Site 3m Chamber #3 Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver

M/N: NS-CAHBT Mode:GFSK 2480 Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	d₿	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2491.849	17.60	30.74	48.34	74.00	-25.66	peak			
2	*	2491.849	2.36	30.74	33.10	54.00	-20.90	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2203

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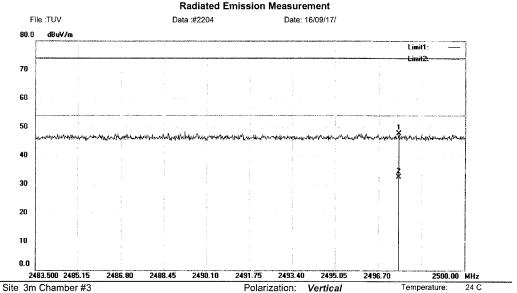
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Humidity:

53 %



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:GFSK 2480

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2497.476	16.99	30.77	47.76	74.00	-26.24	peak			
2	*	2497.476	1.83	30.77	32.60	54.00	-21.40	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#2204

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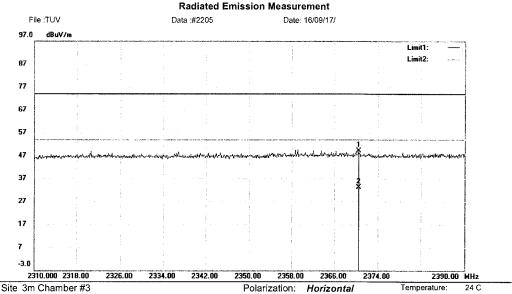
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2402

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2370.480	18.97	30.19	49.16	74.00	-24.84	peak			
2	*	2370.480	2.91	30.19	33.10	54.00	-20.90	AVG	*****		

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2205

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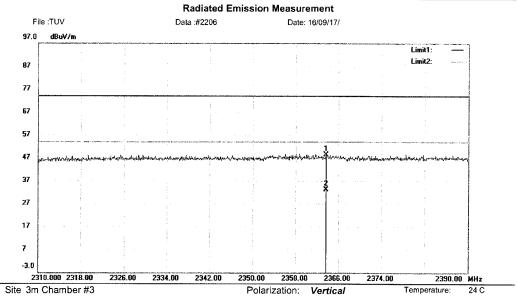
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Humidity:

53 %



Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver
M/N: NS-CAHBT

Mode:8DPSK 2402

Note:

No.	М	k. Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector	cm	degree	Comment
1		2363.680	18.12	30.16	48.28	74.00	-25.72	peak			
2	*	2363.680	3.04	30.16	33.20	54.00	-20.80	AVG			******

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#2206

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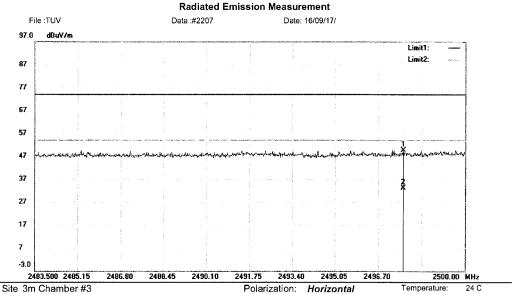
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Humidity:

53 %



Site 3m Chamber #3

Limit: (RE)FCC PART 15 C

EUT: Bluetooth Receiver M/N: NS-CAHBT

Mode:8DPSK 2480

Note:

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		24	97.657	18.78	30.77	49.55	74.00	-24.45	peak				
2	*	24	97.657	2.33	30.77	33.10	54.00	-20.90	AVG				

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File:TUV\Data:#2207

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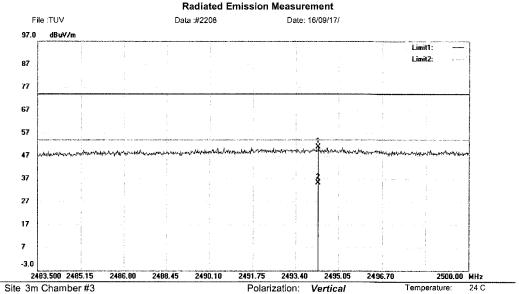
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Humidity:

Operator: KK



Limit: (RE)FCC PART 15 C

Limit: (RE)FCC PART 15 C EUT: Bluetooth Receiver M/N: NS-CAHBT Mode:8DPSK 2480

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2494.274	20.18	30.75	50.93	74.00	-23.07	peak	· · · · · · · · · · · · · · · · · · ·	-	
2	*	2494.274	4.45	30.75	35.20	54.00	-18.80	AVG			

Power: AC 120V/60Hz

*:Maximum data x:Over limit !:over margin

File :TUV\Data :#2208



Products

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5.1.6 Frequency Separation

RESULT: Pass

Date of testing 2016-09-02

Test standard FCC part 15.247(a)(1)

RSS-247 clause 5.1(2)

Basic standard ANSI C63.10: 2013

Limit ≥ 25kHz or two-thirds of 20dB bandwidth,

whichever is greater

Shield room Kind of test site :

Test setup

Low/ Middle/ High

Test Channel : Operation Mode : Ambient temperature : Relative humidity : A.1.a **25**℃ 50% Atmospheric pressure : 101kPa

Table 9: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	0.999	≥ 25kHz or two- thirds of 20dB	Pass
Adjacency Channel	2403	0.999	bandwidth	1 033
Mid Channel	2441	1.003	≥ 25kHz or two- thirds of 20dB	Pass
Adjacency Channel	2442	1.003	bandwidth	Pass
High Channel	2479	1 002	≥ 25kHz or two- thirds of 20dB	Doos
Adjacency Channel	2480	1.003	bandwidth	Pass



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5.1.7 Number of hopping frequency

RESULT: Pass

2016-09-02 Date of testing

Test standard FCC part 15.247(a)(1)(iii)

RSS-247 clause 5.1(4)

: ANSI C63.10: 2013 Basic standard

Limits ≥ 15 non-overlapping channels

Kind of test site Shield room

Test setup

Low/ Middle/ High

A.1.a **25**℃ 50% 101kPa

Table 10: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥15	Pass



Products

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5.1.8 Time of Occupancy

RESULT: Pass

Date of testing : 2016-09-05

Test standard : FCC part 15.247(a)(1)(iii)

RSS-247 clause 5.1(4)

Basic standard : ANSI C63.10: 2013

Limits : 0.4s

Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High

Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 11: Test result of Time of Occupancy

Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
		2402	0.365	320	116.800	400
	DH1	2441	0.371	320	118.720	400
		2480	0.365	320	116.800	400
		2402	1.623	165	267.795	400
BDR	DH3	2441	1.623	165	267.795	400
		2480	1.623	165	267.795	400
		2402	2.870	112	321.440	400
	DH5	2441	2.870	112	321.440	400
		2480	2.870	112	321.440	400
		2402	0.388	320	124.160	400
	DH1	2441	0.388	320	124.160	400
		2480	0.388	320	124.160	400
		2402	1.646	165	271.590	400
EDR	DH3	2441	1.636	165	269.940	400
		2480	1.636	165	269.940	400
		2402	2.883	112	322.896	400
	DH5	2441	2.883	112	322.896	400
		2480	2.883	112	322.896	400



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5.1.9 Conducted emissions

RESULT: Pass

2016-10-24 Date of testing

Test standard FCC Part 15.107 (a)

FCC Part 15.207 RSS-Gen Clause 8.8

ICES-003 Issue 6 January 2016

Basic standard ANSI C63.10: 2013

ANSI C63.4: 2014

Frequency range 0.15 - 30MHzLimits FCC Part 15.207

Table 3 of RSS-Gen

Kind of test site Shield room

Test setup

AC 120V, 60Hz

Input Voltage : Operation Mode : A+B, B

Earthing Not Connected

Ambient temperature : Relative humidity : **22**℃ 55% Atmospheric pressure : 101kPa

For details refer to following test plot.



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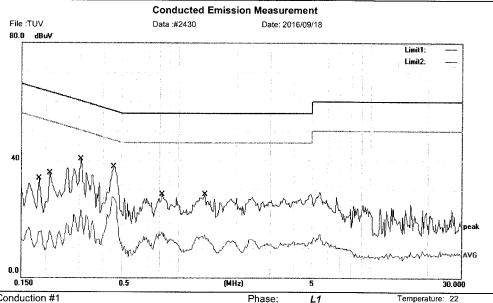
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Humidity:

55 %



Power: NS-CAHBT

Site Conduction #1

Limit: (CE)FCC PART 15 class B_QP

EUT: TUV

M/N: BLUETOOTH RECEIVER

Mode: ON Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∨	dΒ	Detector	Comment
1		0.1850	33.78	0.00	33.78	64.26	-30.48	QP	
2		0.1850	15.56	0.00	15.56	54.26	-38.70	AVG	
3	•	0.2100	35.41	0.00	35.41	63.21	-27.80	QP	
4		0.2100	15.74	0.00	15.74	53.21	-37.47	AVG	
5		0.3050	40.29	0.00	40.29	60.11	-19.82	QP	
6		0.3050	22.87	0.00	22.87	50.11	-27.24	AVG	
7	*	0.4550	37.72	0.00	37.72	56.78	-19.06	QP	
8		0.4550	27.39	0.00	27.39	46.78	-19.39	AVG	
9		0.8200	28.30	0.00	28.30	56.00	-27.70	QP	
10		0.8200	15.55	0.00	15.55	46.00	-30.45	AVG	
11		1.3650	28.33	0.00	28.33	56.00	-27.67	QP	
12		1.3650	14.45	0.00	14.45	46.00	-31.55	AVG	

*:Maximum data

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

File:TUV\Data:#2430



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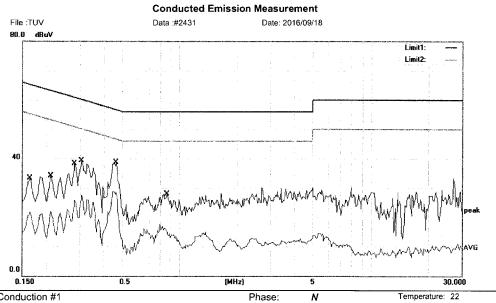
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Humidity:

55 %



Power: NS-CAHBT

Site Conduction #1

Limit: (CE)FCC PART 15 class B_QP

EUT: TUV

M/N: BLUETOOTH RECEIVER

Mode: ON Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1		0.1650	33.26	0.00	33.26	65.21	-31.95	QP	
2		0.1650	21.70	0.00	21.70	55.21	-33.51	AVG	
3		0.2100	34.01	0.00	34.01	63.21	-29.20	QP	
4		0.2100	21.90	0.00	21.90	53.21	-31.31	AVG	
5		0.2800	38.29	0.00	38.29	60.82	-22.53	QP	
6		0.2800	25.73	0.00	25.73	50.82	-25.09	AVG	
7		0.3050	39.36	0.00	39.36	60.11	-20.75	QP	
8		0.3050	27.46	0.00	27.46	50.11	-22.65	AVG	
9	*	0.4650	38.78	0.00	38.78	56.60	-17.82	QP	
10		0.4650	28.78	0.00	28.78	46.60	-17.82	AVG	
11		0.8650	27.83	0.00	27.83	56.00	-28.17	QP	
12		0.8650	16.87	0.00	16.87	46.00	-29.13	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver.

Operator: CSL

File: TUV\Data:#2431



Products

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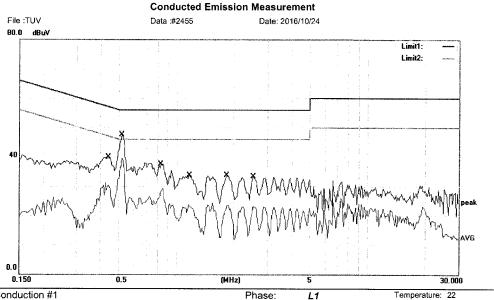
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Humidity:

55 %



Power: AC 120V/60Hz

Site Conduction #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Bluetooth Recevier M/N: NS-CAHBT Mode: charging

Note:

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBu∨	dB	dBu√	₫BuV	dB	Detector	Comment	
	0.4400	39.83	0.00	39.83	57.06	-17.23	QP	,	
	0.4400	31.09	0.00	31.09	47.06	-15.97	AVG	*****	
	0.5200	47.41	0.00	47.41	56.00	-8.59	QP		
*	0.5200	39.48	0.00	39.48	46.00	-6.52	AVG		
	0.8300	37.54	0.00	37.54	56.00	-18.46	QP		·
	0.8300	29.31	0.00	29.31	46.00	-16.69	AVG	*****	
	1.1700	33.66	0.00	33.66	56.00	-22.34	QP		
	1.1700	23.65	0.00	23.65	46.00	-22.35	AVG		
_	1.8300	33.74	0.00	33.74	56.00	-22.26	QP		
	1.8300	23.59	0.00	23.59	46.00	-22.41	AVG		*
	2.5200	33.21	0.00	33.21	56.00	-22.79	QP		
	2.5200	23.07	0.00	23.07	46.00	-22.93	AVG		
		MHz 0.4400 0.4400 0.5200 0.5200 0.8300 0.8300 1.1700 1.1700 1.8300 1.8300 2.5200	Mk. Freq. Level MHz dBuV 0.4400 39.83 0.4400 31.09 0.5200 47.41 * 0.5200 39.48 0.8300 37.54 0.8300 29.31 1.1700 33.66 1.1700 23.65 1.8300 33.74 1.8300 23.59 2.5200 33.21	Mk. Freq. Level Factor MHz dBuV dB 0.4400 39.83 0.00 0.5200 47.41 0.00 * 0.5200 39.48 0.00 0.8300 37.54 0.00 0.8300 29.31 0.00 1.1700 33.66 0.00 1.8300 33.74 0.00 1.8300 23.59 0.00 2.5200 33.21 0.00	Mk. Freq. Level Factor ment MHz dBuV dB dBuV 0.4400 39.83 0.00 39.83 0.4400 31.09 0.00 31.09 0.5200 47.41 0.00 47.41 * 0.5200 39.48 0.00 39.48 0.8300 37.54 0.00 37.54 0.8300 29.31 0.00 29.31 1.1700 33.66 0.00 33.66 1.1700 23.65 0.00 23.65 1.8300 33.74 0.00 33.74 1.8300 23.59 0.00 23.59 2.5200 33.21 0.00 33.21	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV d40.00 31.09 47.06 0.00 39.48 40.00 0.00 33.66 56.00 0.00 1.8300 33.74 0.00 33.74 56.00 23.59 46.00 2.5200 33.21 56.00 0.00 33.2	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB dBuV dBuV dB dBuV dBuV dB 0B 0.00 39.83 57.06 -17.23 0.7.23 0.00 -15.97 0.5200 47.41 0.00 47.41 56.00 -8.59 0.5200 47.41 0.00 47.41 56.00 -8.59 0.8300 39.48 0.00 39.48 46.00 -6.52 0.8300 37.54 0.00 37.54 56.00 -18.46 0.8300 29.31 0.00 29.31 46.00 -16.69 11.700 33.66 0.00 23.65 46.00 -22.34 46.00 -22.35 1.8300 33.74 0.00 33.74 56.00 -22.41 2.5200 33.21 0.00 33.59 46.00 -22.41 2	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB Detector 0.4400 39.83 0.00 39.83 57.06 -17.23 QP 0.4400 31.09 0.00 31.09 47.06 -15.97 AVG 0.5200 47.41 0.00 47.41 56.00 -8.59 QP * 0.5200 39.48 0.00 39.48 46.00 -6.52 AVG 0.8300 37.54 0.00 37.54 56.00 -18.46 QP 0.8300 29.31 0.00 29.31 46.00 -16.69 AVG 1.1700 33.66 0.00 33.66 56.00 -22.34 QP 1.8300 33.74 0.00 33.74 56.00 -22.26 QP 1.8300 23.59 0.00 23.59 46.00 -22.41 AVG 2.5200 33.21 0.00 33.21 56.00 -22.79 QP	Mk. Freq. Level Factor MHz ment Limit Over MHz dBuV dB dBuV dB Detector Comment 0.4400 39.83 0.00 39.83 57.06 -17.23 QP 0.4400 31.09 0.00 31.09 47.06 -15.97 AVG 0.5200 47.41 0.00 47.41 56.00 -8.59 QP * 0.5200 39.48 0.00 39.48 46.00 -6.52 AVG 0.8300 37.54 0.00 37.54 56.00 -18.46 QP 0.8300 29.31 0.00 29.31 46.00 -16.69 AVG 1.1700 33.66 0.00 33.66 56.00 -22.34 QP 1.8300 33.74 0.00 33.74 56.00 -22.26 QP 1.8300 23.59 0.00 23.59 46.00 -22.41 AVG 2.5200 33.21 0.00 33.21 56.00 -22.79 QP

*:Maximum data

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: WQG

File:TUV\Data:#2455



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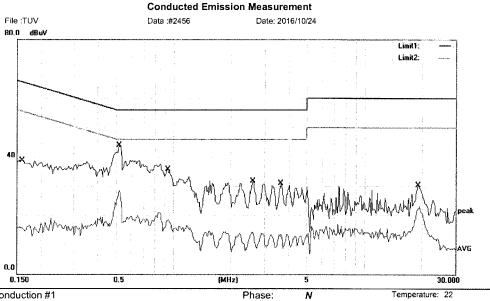
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Humidity:

55 %



Power: AC 120V/60Hz

Site Conduction #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Bluetooth Recevier M/N: NS-CAHBT Mode: charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBu∨	đΒ	dBuV	dBuV	dB	Detector	Comment	
1		0.1607	38.61	0.00	38.61	65.43	-26.82	QP		
2		0.1607	16.76	0.00	16.76	55.43	-38.67	AVG	WORK A PLA	
3	*	0.5200	43.97	0.00	43.97	56.00	-12.03	QP		
4		0.5200	28.51	0.00	28.51	46.00	-17.49	AVG	Wil	
5		0.9300	35.69	0.00	35.69	56.00	-20.31	QP	\$77 \$10 _{0.00}	-
6		0.9300	20.85	0.00	20.85	46.00	-25.15	AVG	***************************************	
7		2.6000	31.72	0.00	31.72	56.00	-24.28	QP		
8		2.6000	14.21	0.00	14.21	46.00	-31.79	AVG		
9		3.6400	30.97	0.00	30.97	56.00	-25.03	QP		
10		3.6400	13.56	0.00	13.56	46.00	-32.44	AVG		
11		19.0500	30.30	0.00	30.30	60.00	-29.70	QP		
12		19.0500	23.07	0.00	23.07	50.00	-26.93	AVG		
									7000000	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: WQG

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5.1.10 Radiated Emission

RESULT: Pass

Date of testing : 2016-10-25

Test standard : FCC Part 15.109 (a)

ICES-003 Issue 6 January 2016

Test procedure : ANSI C63.4: 2014 Frequency range : 30 - 6000MHz

Equipment Classification : Class B

Limits : FCC Part 15.109(a)

ICES-003 Issue 6 January 2016

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Input Voltage : AC 120V, 60Hz

Operation mode : E

Earthing : Not connected

Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101kPa

For details refer to following test plot.



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Shenzhen EMTEK Co., Ltd.

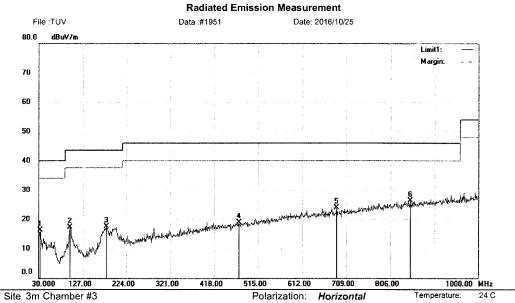
Power: AC 120V/60Hz

Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China www.emtek.com.cn Tei:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

53 %



Limit: (RE)FCC PART 15 CLASS B

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode: Charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		32.9100	32.28	-16.04	16.24	40.00	-23.76	QP	***		
2		97.9000	32.60	-15.28	17.32	43.50	-26.18	QP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3		179.3800	34.51	-16.92	17.59	43.50	-25.91	QP	- 101		
4		472.3200	26.93	-8.07	18.86	46.00	-27.14	QP			
5		687.6600	28.08	-4.12	23.96	46.00	-22.04	QP			·
6	*	848.6800	27.79	-1.51	26.28	46.00	-19.72	QP			·

*:Maximum data x:Over limit !:over margin Operator: LQZ

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Products

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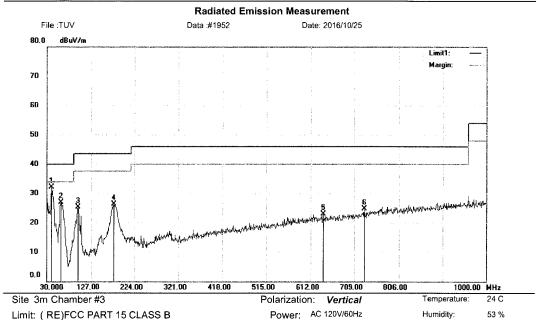
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Operator: LQZ



Limit: (RE)FCC PART 15 CLASS B

EUT: Bluetooth Receiver M/N: NS-CAHBT Mode: Charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	39.7000	47.39	-15.38	32.01	40.00	-7.99	QP			
2		60.0700	42.64	-15.73	26.91	40.00	-13.09	QP			
3		97.9000	40.66	-15.28	25.38	43.50	-18.12	QP			
4		177.4400	43.42	-17.20	26.22	43.50	-17.28	QP			
5		639.1600	27.56	-4.63	22.93	46.00	-23.07	QP			
6		731.3100	28.08	-3.37	24.71	46.00	-21.29	QP			

*:Maximum data x:Over limit !:over margin

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6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: Pass

Test standard : RSS-102 Issue 5 March 2015

FCC KDB Publication 447498 D01 v06

The maximum radiated power of the transmitter is 1.074mW (0.31dBm) only, which less than 4mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

Since maximum radiated power of the transmitter is 1.074mW<10mW, and the distance from EUT to human is ≥5mm, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.



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