

Report No.: SHCR230700146601

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TEST REPORT

SHCR2307001466AT **Application No.:** FCC ID: 2BA76CH13MNT007

Applicant: MotoMotion China Corporation

Address of Applicant: No. 61 Xinggang Road, Zhonglou Economic Development Zone,

Changzhou, Jiangsu, P.R. China

Manufacturer: MotoMotion China Corporation

Address of Manufacturer: No. 61 Xinggang Road, Zhonglou Economic Development Zone,

Changzhou, Jiangsu, P.R. China

Equipment Under Test (EUT):

EUT Name: Remote Control

Model No.: CH13-R

47 CFR Part 15, Subpart C 15.249 Standard(s):

Date of Receipt: 2023-06-16

Date of Test: 2023-06-18 to 2023-06-30

2023-07-03 Date of Issue:

Test Result: Pass*

Parlam Zhan



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



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	Revision Record			
Version	Description	Date	Remark	
00	Original	2023-07-03	/	

Authorized for issue by:		
	hichal Mil	
	Micheal Niu /Project Engineer	
	Parlam Zhan	
	Parlam Zhan /Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement				
Item Standard Method Requirement Result				
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass



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General Information

4.1 Details of E.U.T.

Power supply:	DC 4.5V
Operation Frequency:	2402-2460MHz
Modulation Type:	GFSK
Number of Channels:	59
Channel Spacing:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi(Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
The EUT has been tested as an independent unit.				

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Occupied Bandwidth	3%
4	DE Dadistad Dawer	5.2dB (Below 1GHz)
4	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
_	Dadieted Courieus Fusionies Test	4.5dB (30MHz-1GHz)
5	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
6	Temperature Test	1°C
7	Humidity Test	3%
8	Supply Voltages	1.5%
9	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty approximately the 95% confidence level using a coverage factor of k=2.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable). 2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.5 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

Abnormalities from Standard Conditions

None



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Equipment List 5

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	FARAD	EZ_EMC	1.1.4.2	1	/



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

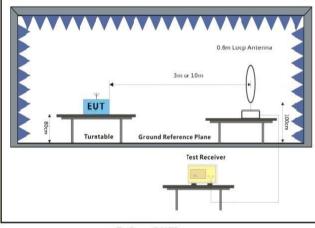
Operating Environment:

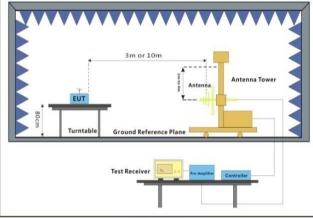
Temperature: 21.3 °C Humidity: 50.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

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

7.1.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.1.4 Measurement Procedure and Data

- 1. Place the EUT on the table and set it in Engineering mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = approximately 1 % to 5 % of the OBW (set 10 kHz), VBW =3* RBW, Span=2MHz, Sweep=auto
- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency measured was complete.



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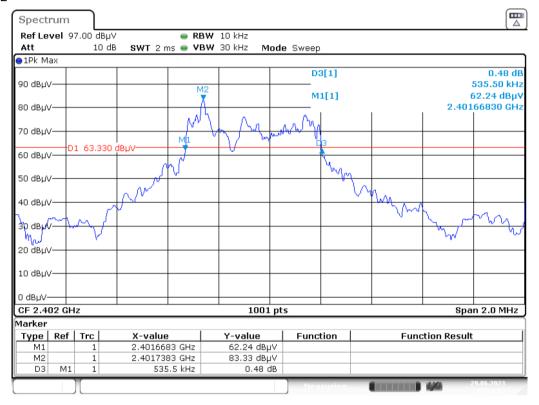


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Frequency (MHz)	Bandwidth (kHz)	Result
2402	535.5	PASS
2431	681.3	PASS
2460	633.4	PASS

2402MHz



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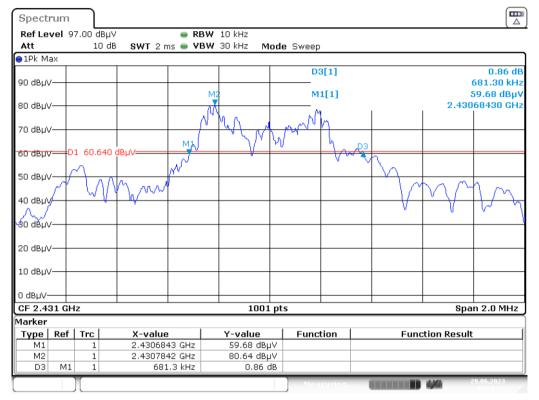
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2431MHz



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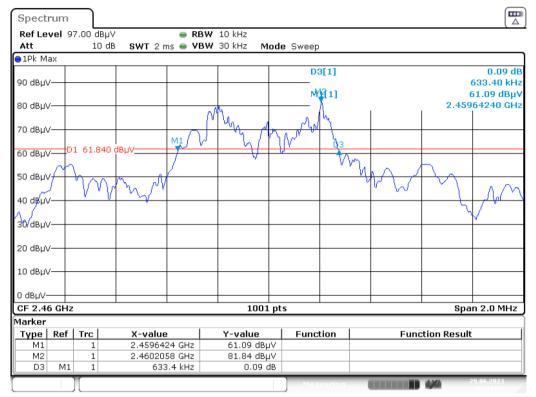
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2460MHz



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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.2.1 E.U.T. Operation

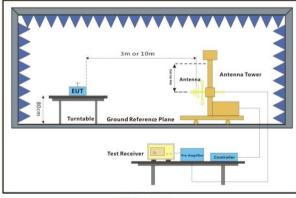
Operating Environment:

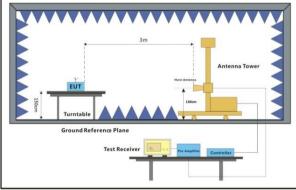
Temperature: 21.3 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Tiziz Tool Mode Becomption									
Pre-scan / Final test	Mode Code	Description							
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.							

7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c.The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g.If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h.Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i.The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j.Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2402MLI=	107.08	-19.70	87.38	94.00	-6.62	Peak	Horizontal
2402MHz	97.57	-19.70	77.87	94.00	-16.13	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
0.404MH=	107.69	-19.41	88.28	94.00	-5.72	Peak	Horizontal
2431MHz	97.38	-19.41	77.96	94.00	-16.04	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
2400MH-	108.23	-19.12	89.11	94.00	-4.89	Peak	Horizontal
2460MHz	98.13	-19.12	79.01	94.00	-14.99	Peak	Vertical

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



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.3.1 E.U.T. Operation

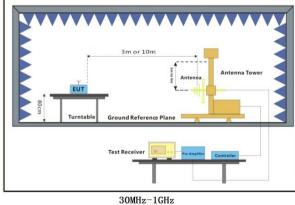
Operating Environment:

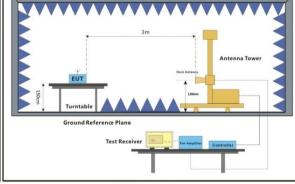
Temperature: 21.3 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

7.0.2 1000 10	ouo bu	5011ption
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.3.3 Test Setup Diagram





Above 1GHz



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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



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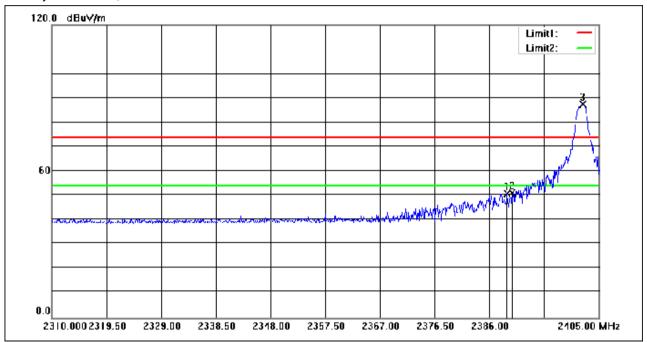
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Polarity: Horizontal; Channel:2402MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.040	70.56	-19.79	50.77	74.00	-23.23	peak
2	2390.000	71.07	-19.79	51.28	74.00	-22.72	peak
3	2402.245	107.08	-19.70	87.38	74.00	13.38	peak



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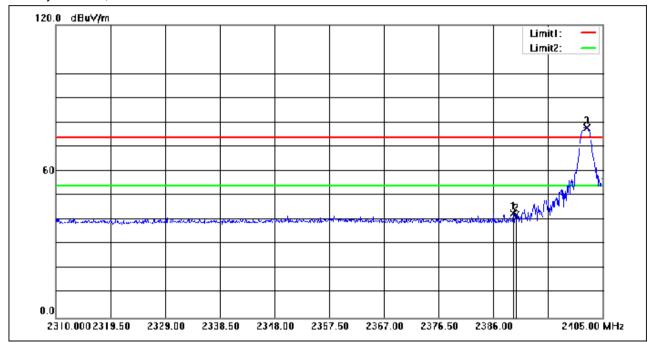
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Polarity: Vertical; Channel:2402MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.515	62.53	-19.79	42.74	74.00	-31.26	peak
2	2390.000	61.99	-19.79	42.20	74.00	-31.80	peak
3	2402.245	97.57	-19.70	77.87	74.00	3.87	peak



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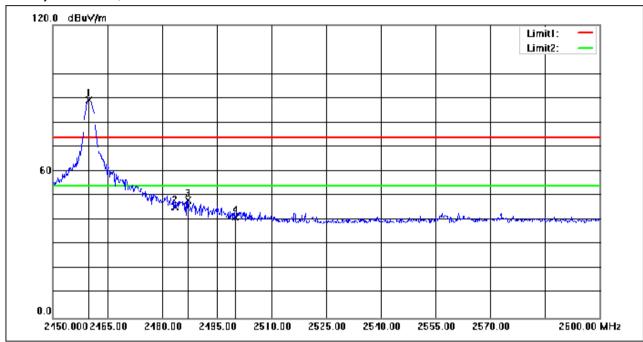
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Polarity: Horizontal; Channel:2460MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.900	108.23	-19.12	89.11	74.00	15.11	peak
2	2483.500	64.87	-19.33	45.54	74.00	-28.46	peak
3	2487.050	67.44	-19.37	48.07	74.00	-25.93	peak
4	2500.000	60.66	-19.49	41.17	74.00	-32.83	peak



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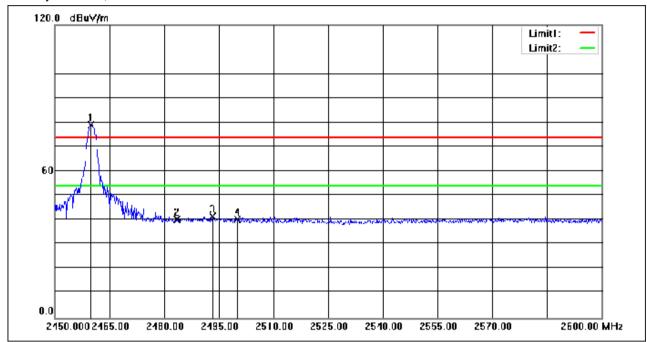
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Polarity: Vertical; Channel:2460MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.900	98.13	-19.12	79.01	74.00	5.01	peak
2	2483.500	59.72	-19.33	40.39	74.00	-33.61	peak
3	2493.350	60.85	-19.43	41.42	74.00	-32.58	peak
4	2500.000	59.74	-19.49	40.25	74.00	-33.75	peak



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7.4 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.4.1 E.U.T. Operation

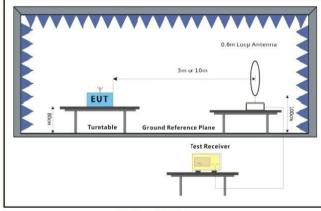
Operating Environment:

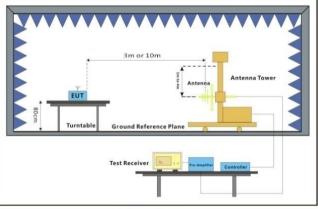
Temperature: 21.3 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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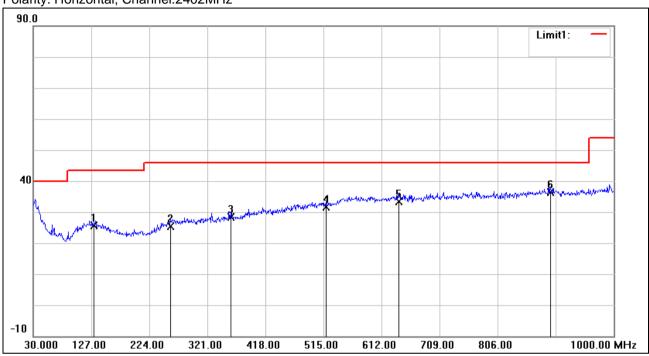
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Polarity: Horizontal; Channel:2402MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	131.8500	6.17	19.34	25.51	43.50	-17.99	100	119	QP
2	259.8900	4.53	20.86	25.39	46.00	-20.61	100	83	QP
3	360.7700	6.31	22.19	28.50	46.00	-17.50	100	59	QP
4	518.8800	5.79	25.93	31.72	46.00	-14.28	100	254	QP
5	641.1000	5.45	27.84	33.29	46.00	-12.71	200	360	QP
6	894.2700	2.46	33.85	36.31	46.00	-9.69	100	121	QP



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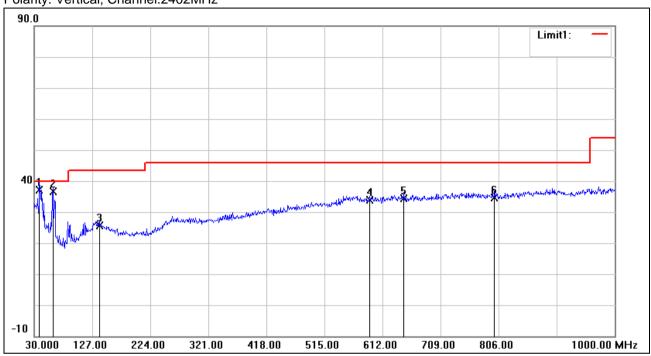
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Polarity: Vertical; Channel:2402MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	38.7300	14.35	22.79	37.14	40.00	-2.86	200	106	QP
2	61.0400	21.91	14.80	36.71	40.00	-3.29	100	119	QP
3	138.6400	6.86	18.76	25.62	43.50	-17.88	100	136	QP
4	590.6600	6.85	27.06	33.91	46.00	-12.09	100	128	QP
5	647.8900	6.63	27.79	34.42	46.00	-11.58	200	174	QP
6	799.2100	2.19	32.39	34.58	46.00	-11.42	200	269	QP



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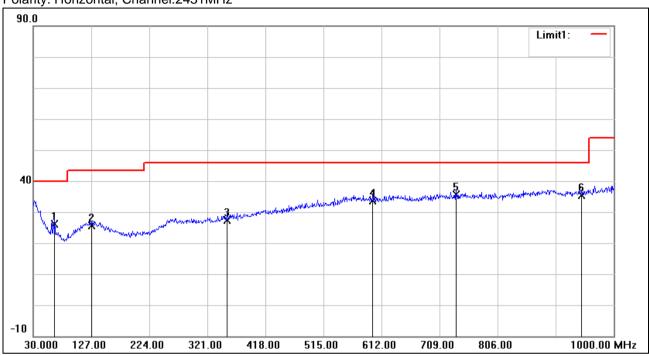
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Polarity: Horizontal; Channel:2431MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	65.8900	11.07	15.17	26.24	40.00	-13.76	100	212	QP
2	127.9700	6.23	19.47	25.70	43.50	-17.80	100	158	QP
3	353.9800	5.51	21.94	27.45	46.00	-18.55	100	163	QP
4	597.4500	6.56	27.09	33.65	46.00	-12.35	200	358	QP
5	736.1600	2.42	33.18	35.60	46.00	-10.40	100	71	QP
6	946.6500	2.56	32.76	35.32	46.00	-10.68	100	52	QP



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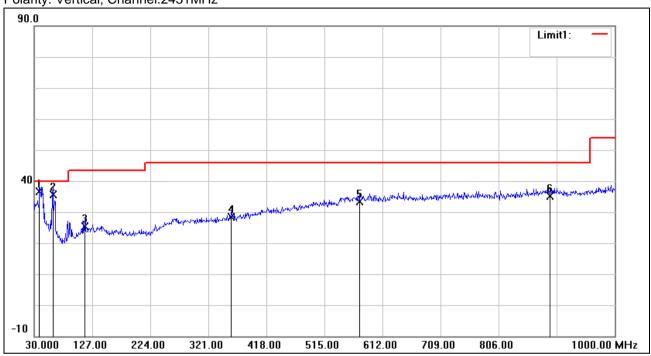
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Polarity: Vertical; Channel:2431MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	38.7300	13.79	22.79	36.58	40.00	-3.42	100	79	QP
2	61.0400	20.77	14.80	35.57	40.00	-4.43	100	152	QP
3	114.3900	6.43	19.02	25.45	43.50	-18.05	200	322	QP
4	358.8300	6.18	22.13	28.31	46.00	-17.69	200	86	QP
5	573.2000	6.39	27.10	33.49	46.00	-12.51	100	51	QP
6	891.3600	2.44	32.62	35.06	46.00	-10.94	100	306	QP



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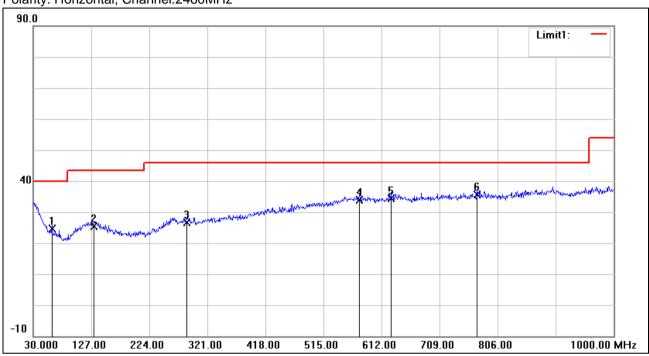
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Polarity: Horizontal; Channel:2460MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	61.0400	9.85	14.80	24.65	40.00	-15.35	100	99	QP
2	131.8500	6.06	19.34	25.40	43.50	-18.10	100	61	QP
3	287.0500	6.23	20.40	26.63	46.00	-19.37	100	147	QP
4	575.1400	6.74	27.04	33.78	46.00	-12.22	100	158	QP
5	627.5200	6.96	27.48	34.44	46.00	-11.56	200	20	QP
6	772.0500	2.31	33.39	35.70	46.00	-10.30	200	304	QP



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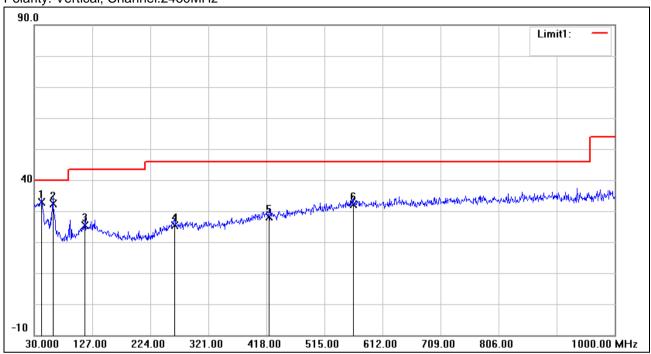
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Polarity: Vertical; Channel:2460MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	42.6100	12.02	20.92	32.94	40.00	-7.06	100	247	QP
2	61.0400	17.56	14.80	32.36	40.00	-7.64	200	320	QP
3	114.3900	6.24	19.02	25.26	43.50	-18.24	100	310	QP
4	264.7400	4.51	20.94	25.45	46.00	-20.55	100	85	QP
5	422.8500	4.29	23.96	28.25	46.00	-17.75	100	251	QP
6	563.5000	4.77	27.45	32.22	46.00	-13.78	100	49	QP



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7.5 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.5.1 E.U.T. Operation

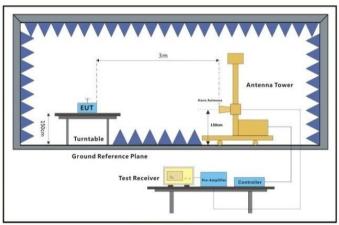
Operating Environment:

Temperature: 21.3 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



Above 1GHz



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7.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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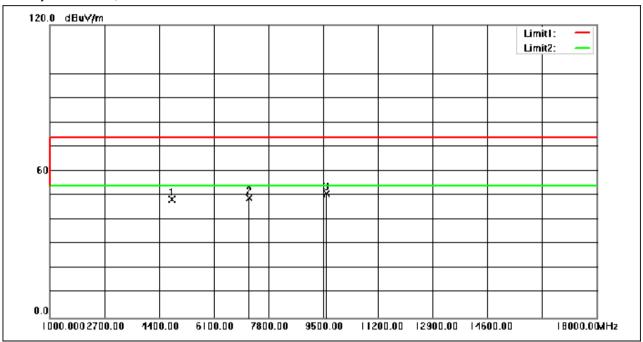
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Polarity: Horizontal; Channel:2402MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	60.47	-12.13	48.34	74.00	-25.66	peak
2	7206.000	54.84	-5.72	49.12	74.00	-24.88	peak
3	9608.000	52.74	-1.90	50.84	74.00	-23.16	peak



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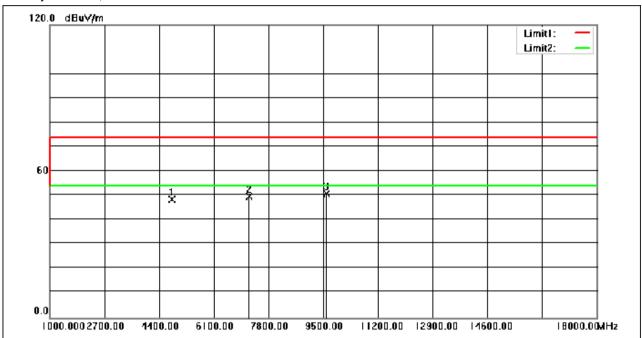
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Polarity: Vertical; Channel:2402MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	60.44	-12.13	48.31	74.00	-25.69	peak
2	7206.000	55.37	-5.72	49.65	74.00	-24.35	peak
3	9608.000	52.69	-1.90	50.79	74.00	-23.21	peak



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Polarity: Horizontal; Channel:2431MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4862.000	60.37	-11.90	48.47	74.00	-25.53	peak
2	7293.000	55.32	-5.63	49.69	74.00	-24.31	peak
3	9724.000	51.71	-1.69	50.02	74.00	-23.98	peak



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Polarity: Vertical; Channel:2431MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4862.000	60.72	-11.90	48.82	74.00	-25.18	peak
2	7293.000	55.05	-5.63	49.42	74.00	-24.58	peak
3	9724.000	52.33	-1.69	50.64	74.00	-23.36	peak



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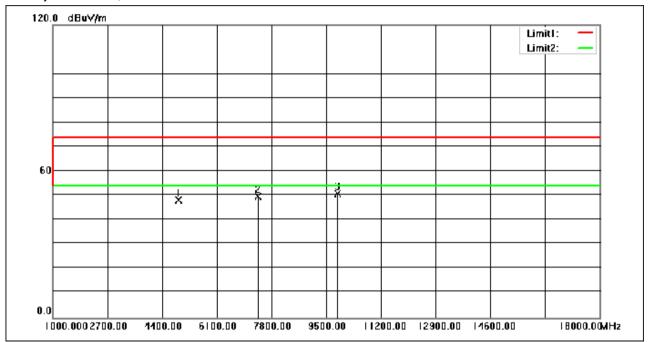
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Polarity: Horizontal; Channel:2460MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	59.82	-11.67	48.15	74.00	-25.85	peak
2	7380.000	55.23	-5.56	49.67	74.00	-24.33	peak
3	9840.000	52.25	-1.46	50.79	74.00	-23.21	peak



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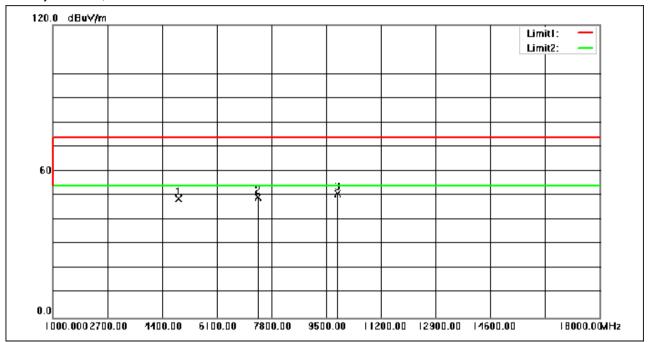
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Polarity: Vertical; Channel:2460MHz



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	60.36	-11.67	48.69	74.00	-25.31	peak
2	7380.000	54.99	-5.56	49.43	74.00	-24.57	peak
3	9840.000	52.32	-1.46	50.86	74.00	-23.14	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2307001466AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2307001466AT

- End of the Report -



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