



FCC ID: M82-WP7610
Report No.: T200207D01-RP2

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Rev.: 04

FCC 47 CFR PART 27 SUBPART L

TEST REPORT

For

Module

Model No.: WP7610

Trade Name: Advantech; Advantech Service-IoT

Issued to

Advantech Co., Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc.

Wugu Laboratory

No.11, Wugong 6th Rd., Wugu Dist.,

New Taipei City, Taiwan. (R.O.C.)

Issued Date: January 6, 2021

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 12, 2020	Initial Issue	ALL	Angel Cheng
01	November 12, 2020	1. Revised temperature , humidity and test date. 2. Added Host device information.	P.5, P.15	Angel Cheng
02	December 22, 2020	1. Revised section 8.1.	P.15-16	Angel Cheng
03	December 30, 2020	1. Revised section 8.1.	P.15-16	Angel Cheng
04	January 6, 2021	1. Revised section 8.1.	P.16	Angel Cheng

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1 TEST RESULT CERTIFICATION

Applicant: Advantech Co., Ltd.
No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District,
Taipei 114, Taiwan, R.O.C.

Manufacturer: Advantech Co.Ltd.
No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District,
Taipei 114, Taiwan, R.O.C.

Equipment Under Test: Module

Trade Name: Advantech; Advantech Service-IoT

Model No.: WP7610

Date of Test: February 21 ~ July 16, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR PART 27 SUBPART L	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA-603-E and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rule FCC PART 27 Subpart L.

The test results of this report relate only to the tested sample identified in this report.

Approved by:



Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

2 EUT DESCRIPTION

Product	Module
Model No.	WP7610
Model Discrepancy	N/A
Trade	Advantech; Advantech Service-IoT
Received Date	February 7, 2020
Power Supply	Powered from host device.
Frequency Range	WCDMA / HSDPA / HSUPA / HSPA+ Band IV: 1712.4-1752.6 MHz
Antenna Specification	Part No.: MA231.LBC.002 PIFA Antenna Antenna gain: 1.37 dBi
Host device information	Product : Computer Trade name: ADVANTECH Model: TREK-572

Remark: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
 2. For test mode WCDMA, HSUPA, HSDPA and HSPA+ were pretest. The worst case was WCDMA in this test report
 3. Disclaimer
 Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on TIA-603-E and FCC CFR 47, Part 27 Subpart L.

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.26: 2015.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 DESCRIPTION OF TEST MODES

The EUT (model: WP7610) had been tested under operating condition.

The EUT be set in maximum power transmission via call box during testing.

3.2.1 The worst mode of measurement

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input checked="" type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Adapter
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report

4 TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
-	2	Antenna Requirement	Pass
27.50(d)	8.1	EIRP Measurement	Pass
27.53(h)	8.2	Spurious Radiation Measurement	Pass



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5 INSTRUMENT CALIBRATION

5.1 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
Radiation	Jerry Chang	-
RF Conducted	Jane Wang	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

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5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration

Conducted Emissions Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Woken	WC12	CC003	06/29/2020	06/28/2021
Coaxial Cable	Woken	WC12	CC001	06/29/2020	06/28/2021
Power Divider	Solvang Technology	STI08-0015	008	08/06/2019	08/05/2020
Signal Analyzer	R&S	FSV 40	101073	09/25/2019	09/24/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	07/29/2019	07/28/2020
Software	N/A				

Wugu 966 Chamber A					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Coaxial Cable	EMCI	EMC105	190914+25111	09/20/2019	09/19/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/15/2020	01/14/2021
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	10/04/2019	10/03/2020
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Wideband Radio Communication Tester	R&S	CMW 500	116875	07/29/2019	07/28/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

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5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

6 FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

- No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
- No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
- No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 0824-01 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, ISSED#: 2324G.

7 SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

7.2 SUPPORT EQUIPMENT

No.	Equipment	Brand	Model	Series No.	FCC ID	IC ID
1	NB(J)	TOSHIBA	PT345T-00L002	N/A	PD97260H	1000M-7260H

Remark:

1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

8 FCC PART 27 REQUIREMENTS

8.1 EIRP MEASUREMENT

LIMIT

FCC Part 27.50(d)(4)

Fixed, mobile, and portable (handheld) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

TEST PROCEDURES

CONDUCTED POWER MEASUREMENT:

1. The transmitter output power was connected to the call box.
2. Set EUT at maximum output power via call box.
3. Set Call box at lowest, middle and highest channels for each band and modulation.

TEST RESULTS

No non-compliance noted.

Remark: The value of factor includes both the loss of cable and external attenuator

Report No.: T200207D01-RP2

Temperature: 24°C

Test Date: July 16, 2020

Humidity: 50 % RH

Tested by: Jane Wang

WCDMA 12.2K RMC

Band	Data Rate or Sub-test	UL/DL Channel No.	Frequency (MHz)	Average power (dBm)	EIRP (dBm)
WCDMA Band 4	RMC 12.2Kbps	1312/1537	1712.4	23.0	24.4
		1413/1638	1732.6	21.7	23.1
		1513/1738	1752.6	21.2	22.6

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HSDPA

Band	Data Rate or Sub-test	UL/DL Channel No.	Frequency (MHz)	Average power (dBm)	EIRP (dBm)
HSDPA IV	1	1312/1537	1712.4	23.0	24.4
		1413/1638	1732.6	21.8	23.2
		1513/1738	1752.6	21.3	22.7
	2	1312/1537	1712.4	23.0	24.4
		1413/1638	1732.6	21.7	23.1
		1513/1738	1752.6	21.2	22.6
	3	1312/1537	1712.4	22.9	24.3
		1413/1638	1732.6	21.7	23.1
		1513/1738	1752.6	21.2	22.6
	4	1312/1537	1712.4	23.0	24.4
		1413/1638	1732.6	21.8	23.2
		1513/1738	1752.6	21.2	22.6

HSUPA

Band	Data Rate or Sub-test	UL/DL Channel No.	Frequency (MHz)	Average power (dBm)	EIRP (dBm)
HSUPA IV	1	1312/1537	1712.4	22.6	24.0
		1413/1638	1732.6	21.4	22.8
		1513/1738	1752.6	21.0	22.4
	2	1312/1537	1712.4	22.6	24.0
		1413/1638	1732.6	21.3	22.7
		1513/1738	1752.6	20.9	22.3
	3	1312/1537	1712.4	22.6	24.0
		1413/1638	1732.6	21.3	22.7
		1513/1738	1752.6	21.0	22.4
	4	1312/1537	1712.4	22.6	24.0
		1413/1638	1732.6	21.4	22.8
		1513/1738	1752.6	20.9	22.3

8.2 SPURIOUS RADIATION MEASUREMENT

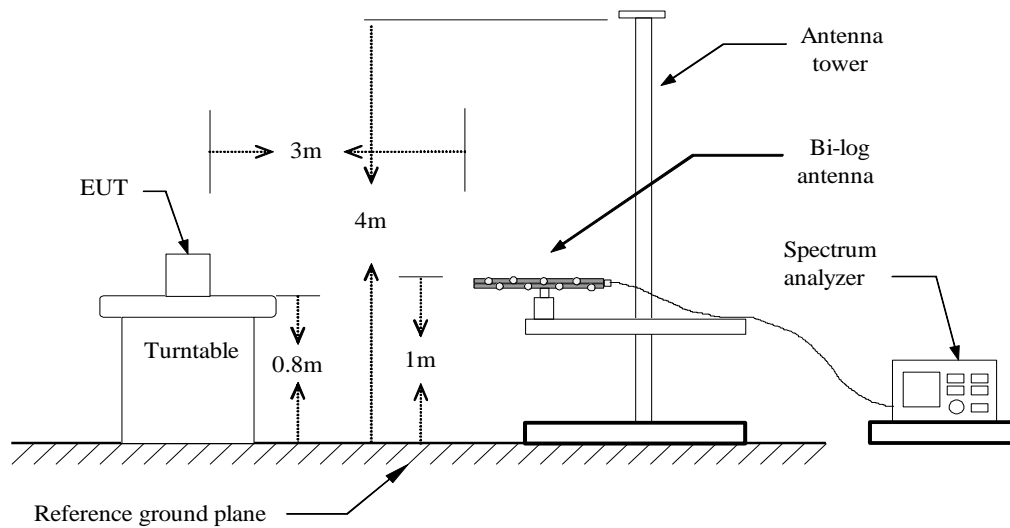
LIMIT

FCC §27.53 (h)

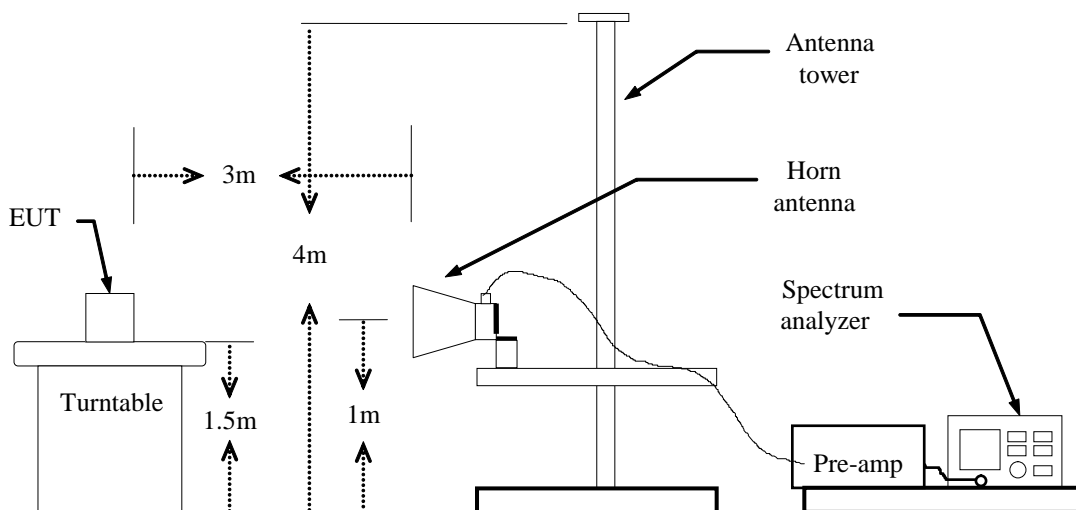
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

Test Configuration

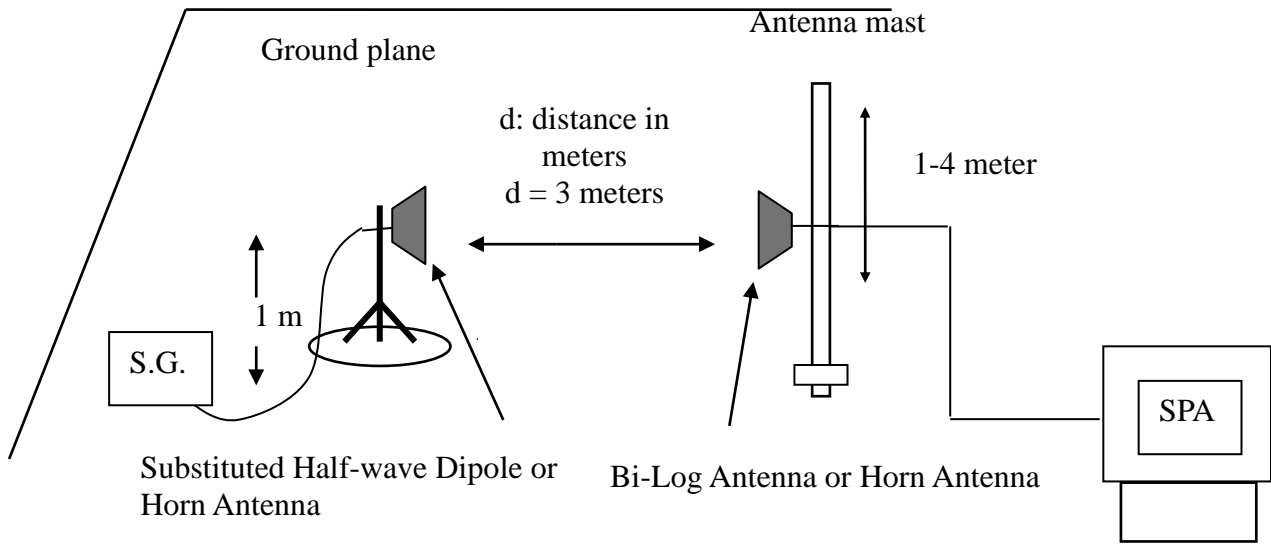
Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



TEST PROCEDURE

1. According to KDB 971168 D01 Power Meas License Digital System and TIA-603-E Section 2.2.12.
2. The EUT was placed on a turntable
 - (1) Below 1G : 0.8m
 - (2) Above 1G : 1.5m
 - (3) EUT set 3m from the receiving antenna
 - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
3. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
4. A horn antenna was driven by a signal generator.
5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission

$$ERP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)} - 2.15$$

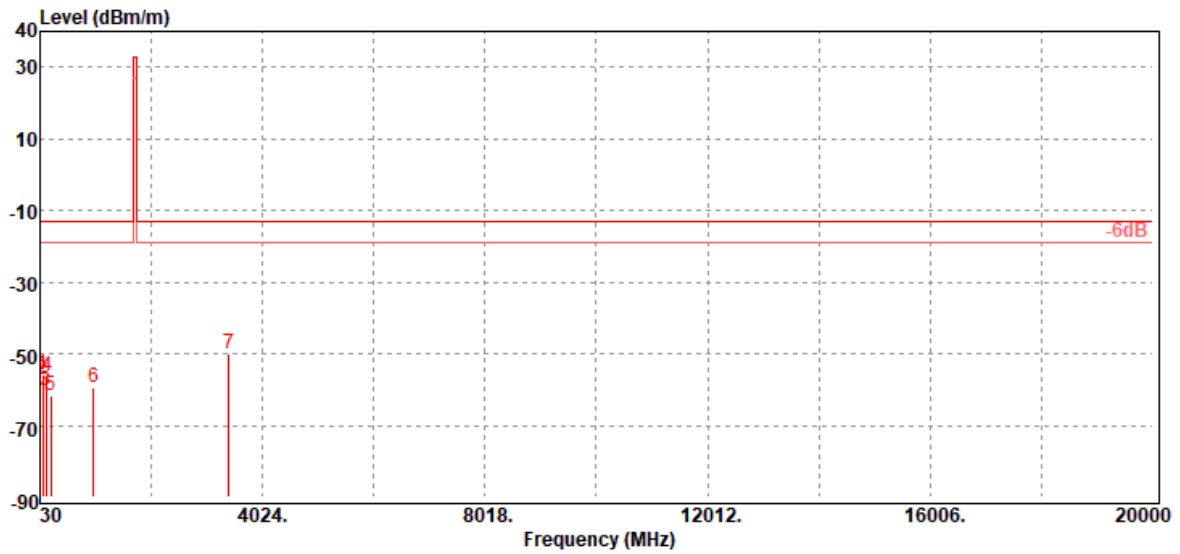
$$EIRP = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

TEST RESULTS

Refer to the attached tabular data sheets.

Radiated Spurious Emission Measurement Result

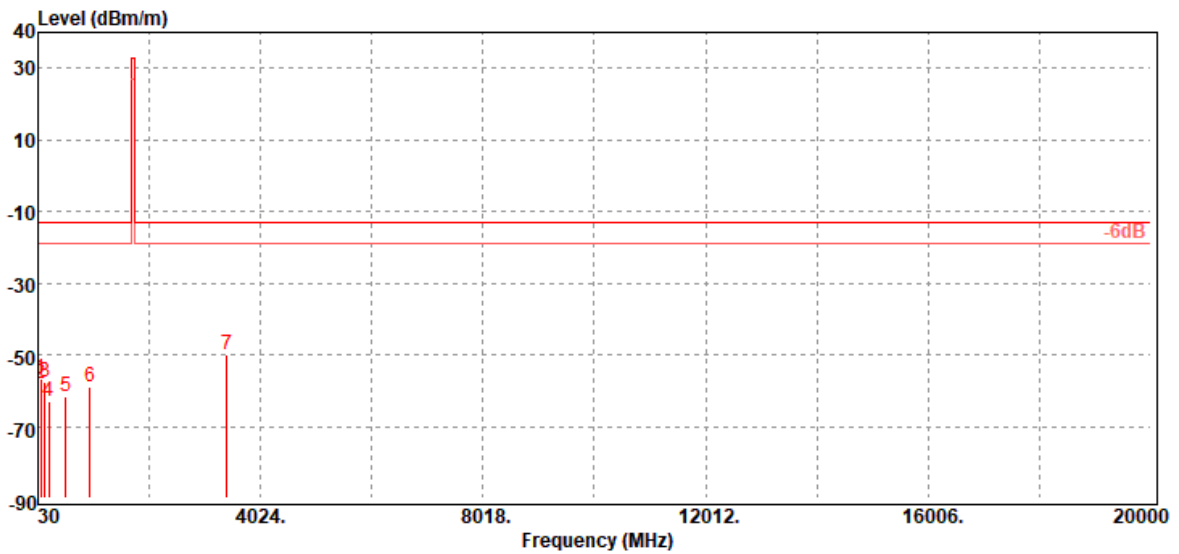
Operation Mode:	WCDMA 12.2k RMC Band IV / TX / Low CH	Test Date:	February 21, 2020
Temperature:	21.4°C	Tested by:	Jerry Chang
Humidity:	51 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
73.65	-55.65	-45.85	-9.10	-0.70	-13.00	-42.65	V
80.44	-56.94	-47.75	-8.46	-0.73	-13.00	-43.94	V
134.76	-60.44	-50.14	-9.35	-0.95	-13.00	-47.44	V
153.19	-56.43	-48.69	-6.72	-1.02	-13.00	-43.43	V
225.94	-61.70	-58.53	-1.94	-1.23	-13.00	-48.70	V
995.15	-59.21	-55.14	-1.40	-2.67	-13.00	-46.21	V
3424.80	-50.08	-57.33	12.75	-5.50	-13.00	-37.08	V

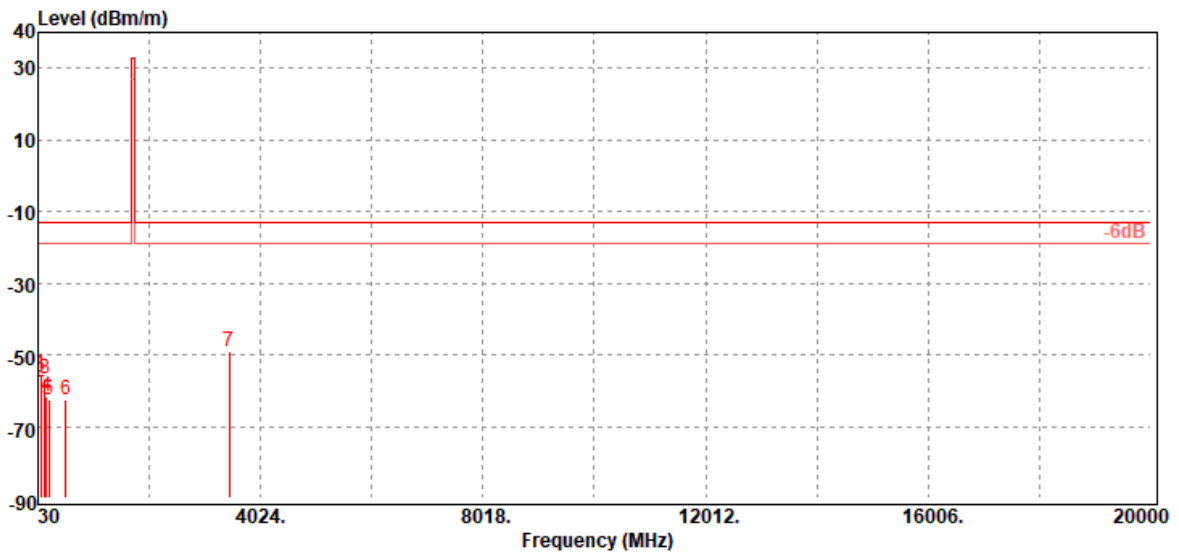
Report No.: T200207D01-RP2

Operation Mode:	WCDMA 12.2k RMC Band IV / TX / Low CH	Test Date:	February 21, 2020
Temperature:	21.4°C	Tested by:	Jerry Chang
Humidity:	51 % RH	Polarity:	Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
73.65	-56.90	-47.1	-9.10	-0.70	-13.00	-43.90	H
80.44	-57.86	-48.67	-8.46	-0.73	-13.00	-44.86	H
151.25	-57.76	-49.7	-7.05	-1.01	-13.00	-44.76	H
225.94	-62.85	-59.68	-1.94	-1.23	-13.00	-49.85	H
527.61	-61.70	-58.48	-1.30	-1.92	-13.00	-48.70	H
956.35	-59.17	-55.32	-1.23	-2.62	-13.00	-46.17	H
3424.80	-50.05	-57.3	12.75	-5.50	-13.00	-37.05	H

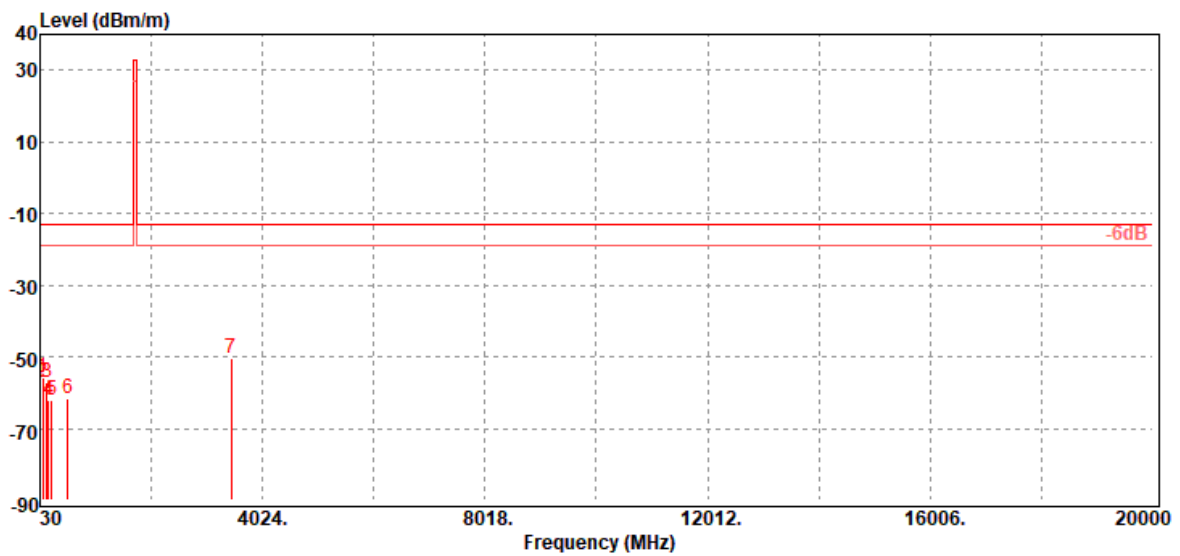
Operation Mode:	WCDMA 12.2k RMC Band IV / TX / Mid CH	Test Date:	February 21, 2020
Temperature:	21.4°C	Tested by:	Jerry Chang
Humidity:	51 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
73.65	-55.51	-45.71	-9.10	-0.70	-13.00	-42.51	V
80.44	-57.69	-48.5	-8.46	-0.73	-13.00	-44.69	V
153.19	-56.84	-49.1	-6.72	-1.02	-13.00	-43.84	V
188.11	-61.86	-56.83	-3.90	-1.13	-13.00	-48.86	V
224.00	-62.36	-59.21	-1.92	-1.23	-13.00	-49.36	V
532.46	-62.46	-59.24	-1.30	-1.92	-13.00	-49.46	V
3465.20	-49.15	-56.26	12.64	-5.53	-13.00	-36.15	V

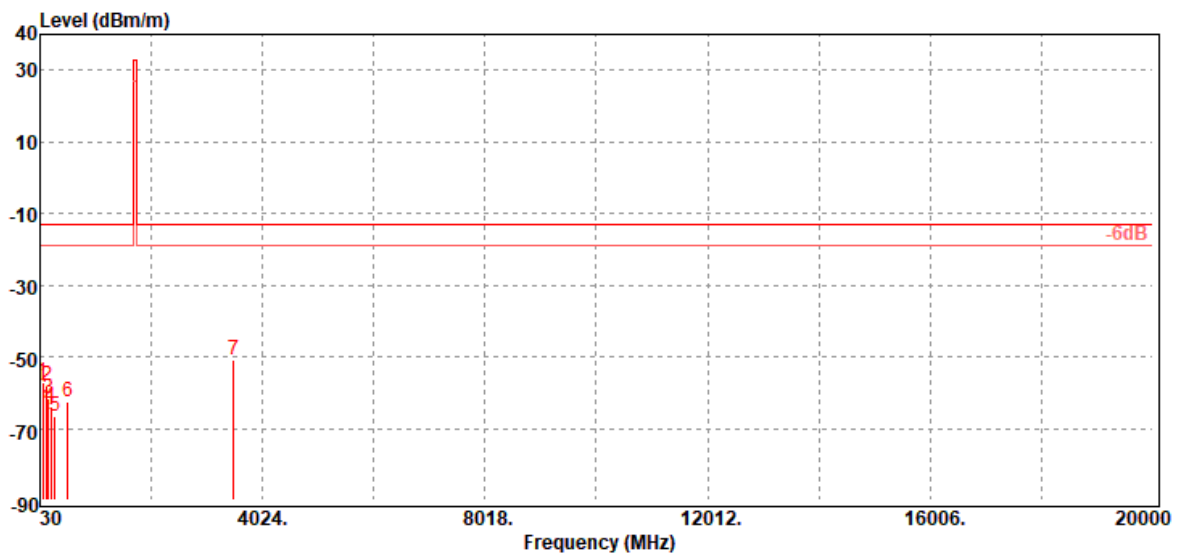
Report No.: T200207D01-RP2

Operation Mode:	WCDMA 12.2k RMC Band IV / TX / Mid CH	Test Date:	February 21, 2020
Temperature:	21.4°C	Tested by:	Jerry Chang
Humidity:	51 % RH	Polarity:	Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
73.65	-55.75	-45.95	-9.10	-0.70	-13.00	-42.75	H
81.41	-57.05	-47.91	-8.40	-0.74	-13.00	-44.05	H
151.25	-57.23	-49.17	-7.05	-1.01	-13.00	-44.23	H
178.41	-61.93	-56.27	-4.56	-1.10	-13.00	-48.93	H
243.40	-62.05	-58.81	-1.96	-1.28	-13.00	-49.05	H
527.61	-61.68	-58.46	-1.30	-1.92	-13.00	-48.68	H
3465.20	-50.31	-57.42	12.64	-5.53	-13.00	-37.31	H

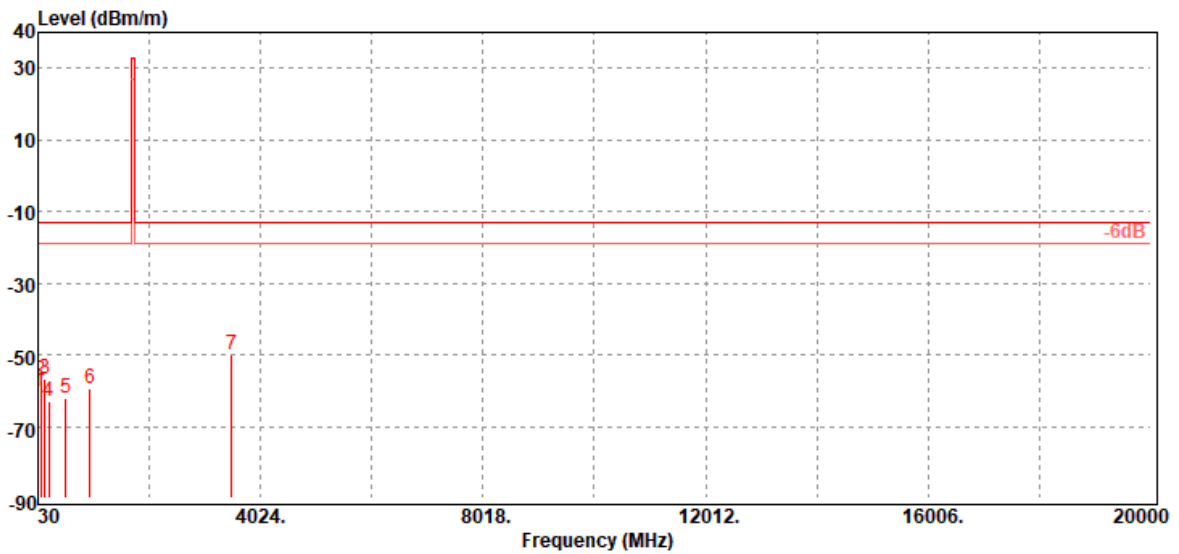
Operation Mode:	WCDMA 12.2k RMC Band IV / TX / High CH	Test Date:	February 21, 2020
Temperature:	21.4°C	Tested by:	Jerry Chang
Humidity:	51 % RH	Polarity:	Ver.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
80.44	-57.22	-48.03	-8.46	-0.73	-13.00	-44.22	V
150.28	-57.85	-49.74	-7.10	-1.01	-13.00	-44.85	V
178.41	-61.81	-56.15	-4.56	-1.10	-13.00	-48.81	V
225.94	-63.79	-60.62	-1.94	-1.23	-13.00	-50.79	V
303.54	-66.74	-63.37	-1.93	-1.44	-13.00	-53.74	V
532.46	-62.70	-59.48	-1.30	-1.92	-13.00	-49.70	V
3505.20	-50.80	-57.73	12.49	-5.56	-13.00	-37.80	V

Report No.: T200207D01-RP2

Operation Mode:	WCDMA 12.2k RMC Band IV / TX / High CH	Test Date:	February 21, 2020
Temperature:	21.4°C	Tested by:	Jerry Chang
Humidity:	51 % RH	Polarity:	Hor.



Freq. (MHz)	ERP/EIRP (dBm)	SG Output Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
73.65	-60.15	-50.35	-9.10	-0.70	-13.00	-47.15	H
80.44	-57.25	-48.06	-8.46	-0.73	-13.00	-44.25	H
154.16	-56.87	-49.07	-6.78	-1.02	-13.00	-43.87	H
224.00	-62.87	-59.72	-1.92	-1.23	-13.00	-49.87	H
534.40	-62.12	-58.89	-1.30	-1.93	-13.00	-49.12	H
961.20	-59.23	-55.3	-1.30	-2.63	-13.00	-46.23	H
3505.20	-49.92	-56.85	12.49	-5.56	-13.00	-36.92	H

- End of Test Report -