RF TEST REPORT

GLOBAL TESTING & CERTIFICATIONS
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Report No.: 16050009-FCC-R1

Supersede Report No.: N/A

Applicant	Micron Electronics LLC.
Product Name	Tracker
Model No.	Prime One X
Serial No.	N/A
Test Standard	FCC Part 22(H):2015; FCC Part 24(E): 2015; ANSI/TIA C603D: 2010
Test Date	February 26 to March 10 , 2016
Issue Date	March 11, 2016
Test Result	☑ Pass ☐ Fail
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Winnie Zhang	David Huang	
Winnie Zhang Test Engineer	David Huang Checked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.

In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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CONTENTS

1. Report Revision History

Report No.	Report Version	Description	Issue Date
16050009-FCC-R1	NONE	Original	March 11, 2016

2. Customer information

Applicant Name	Micron Electronics LLC.
Applicant Add	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
Manufacturer	Micron Electronics LLC.
Manufacturer Add	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Tracker
Main Model:	Prime One X
Serial Model:	N/A
Date EUT received:	February 25，2016
Test Date(s):	February 26 to March 10，2016
Equipment Category：	PCB
Antenna Gain:	Cellular CDMA:0dBi PCS CDMA:1.8dBi WIFI: 1.8dBi GPS: -3.4dBi
Type of Modulation:	CDMA: QPSK WIFI: 802.11b/g/n: DSSS, OFDM GPS: BPSK
RF Operating Frequency (ies):	Cellular CDMA TX: 824.7 ~ 848.37 MHz; RX: 869.7 ~ 893.37 MHz PCS CDMA TX: 1851.25 ~ 1908.75 MHz; RX: 1931.25 ~ 1988.75 MHz WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz GPS RX:1575.42 MHz
Maximum Conducted AV Power to Antenna:	Cellular CDMA: 20.61 dBm PCS CDMA: 21.11 dBm
ERP/EIRP:	Cellular CDMA: 19.15 dBm / ERP PCS CDMA: 22.73 dBm / EIRP
Port:	USB Port

Input Power:	Adapter: Model:K05100-3 Input: AC 100-240V; 50/60Hz;0.3A Output: DC 5.0V,1000mA Battery: Model:Prime one Capacity: 3.8V,850mAh,3.23Wh Charge Voltage:4.35V
Trade Name :	Prime
FCC ID:	ZKQ-1X

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance
§2.1046; § 22.913(a); § 24.232(c);	RF Output Power	Compliance
§ 24.232 (d) ;	Peak-Average Ratio	Compliance
§ 2.1049; § 22.905; § 22.917; § 24.238;	99% & -26 dB Occupied Bandwidth	Compliance
§ 2.1051; § 22.917(a); § 24.238(a);	Spurious Emissions at Antenna Terminal	Compliance
§ 2.1053; § 22.917(a); § 24.238(a);	Field Strength of Spurious Radiation	Compliance
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. temperature Frequency stability vs. voltage	Compliance
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

Measurement Uncertainty

Emissions		
Test Item	**Description**	**Uncertainty**
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 Maximum Permissible Exposure (MPE)

Test Result: Pass

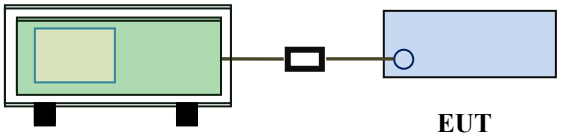
The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 16050009-FCC-H.

6.2 RF Output Power

Temperature	24℃
Relative Humidity	59%
Atmospheric Pressure	1007mbar
Test date :	March 07, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§22.913 (a)	a)	ERP:38.45dBm	☑
§24.232 (c)	b)	EIRP:33dBm	☑
Test Setup			
Test Procedure	For Conducted Power: - The transmitter output port was connected to base station. - Set EUT at maximum power through base station. - Select lowest, middle, and highest channels for each band and different test mode. For ERP/EIRP: - The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. - The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. - The frequency range up to tenth harmonic of the fundamental frequency was investigated. - Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-		

	radiating cable. The absolute levels of the spurious emissions were measured by the substitution. - Spurious emissions in dB = 10 log (TX power in Watts/0.001) – the absolute level - Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts.
Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☑ N/A

Conducted Power

1x RTT Mode:

Burst Average Power (dBm);								
Band	Cellular				PCS			
Channel	1013	384	779	Tune up Power tolerant	25	600	1175	Tune up Power tolerant
Frequency (MHz)	824.7	836.5	848.37	/	1851.25	1880	1908.75	/
1x RTT	20.32	20.36	**20.61**	20.3±1	**21.11**	20.50	20.95	21.3±1

ERP & EIRP

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.7	12.57	V	6.8	0.53	18.84	38.45
824.7	11.13	H	6.8	0.53	17.40	38.45
836.5	12.66	V	6.8	0.53	18.93	38.45
836.5	11.21	H	6.8	0.53	17.48	38.45
848.37	12.78	V	6.9	0.53	**19.15**	38.45
848.37	11.35	H	6.9	0.53	17.72	38.45

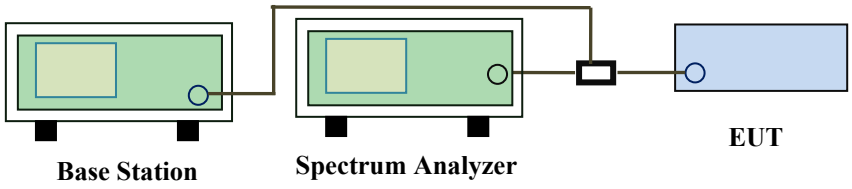
EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1851.25	15.69	V	7.88	0.85	22.72	33
1851.25	14.02	H	7.88	0.85	21.05	33
1880	15.46	V	7.88	0.85	22.49	33
1880	13.91	H	7.88	0.85	20.94	33
1908.75	15.72	V	7.86	0.85	**22.73**	33
1908.75	14.28	H	7.86	0.85	21.29	33

6.3 Peak-Average Ratio

Temperature	24℃
Relative Humidity	59%
Atmospheric Pressure	1007mbar
Test date :	March 07, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§24.232(d)	a)	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.	☑
Test Setup			
Test Procedure	**According with KDB 971168 v02r02** 1. The signal analyzer' s CCDF measurement profile is enabled 2. Frequency = carrier center frequency 3. Measurement BW > Emission bandwidth of signal 4. The signal analyzer was set to collect one million samples to generate the CCDF curve 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal " RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the " on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power		
Remark			
Result	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

1x RTT Mode:

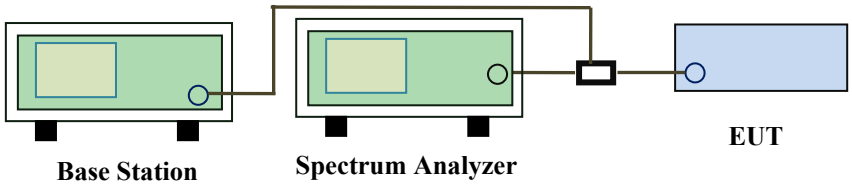
PCS Band

Frequency (MHz)	Conducted power(dBm)		Peak-Average Ratio(PAR)
	Peak	Average	
1851.25	22.56	21.11	1.45
1880	22.13	20.50	1.63
1908.75	22.49	20.95	1.54

6.4 Occupied Bandwidth

Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	March 04, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049, §22.917, §22.905 §24.238	a)	99% Occupied Bandwidth(kHz)	☑
	b)	26 dB Bandwidth(kHz)	☑
Test Setup			
Test Procedure	- The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.		
Remark			
Result	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

1x RTT Mode:

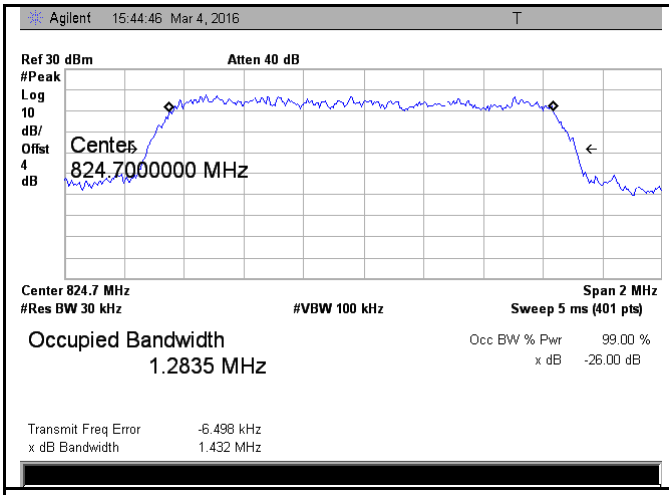
Cellular Band (Part 22H) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1013	824.7	1.2835	1.432
384	836.5	1.2844	1.447
779	848.37	1.2849	1.446

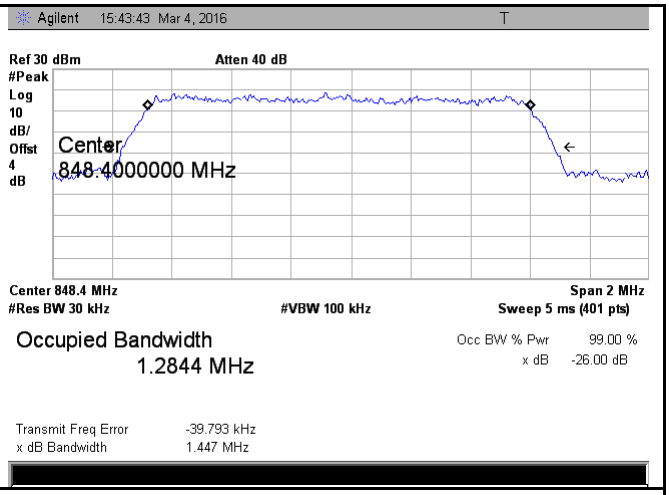
PCS Band (Part 24E) result

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
25	1851.25	1.2911	1.464
600	1880.0	1.2987	1.455
1175	1908.75	1.2920	1.461

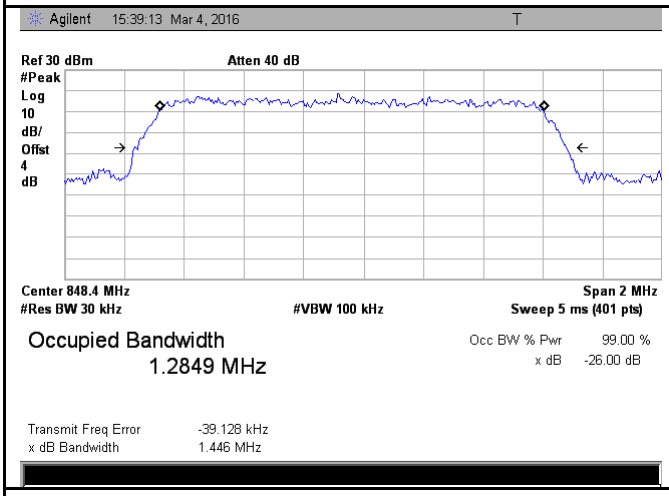
Test Plots



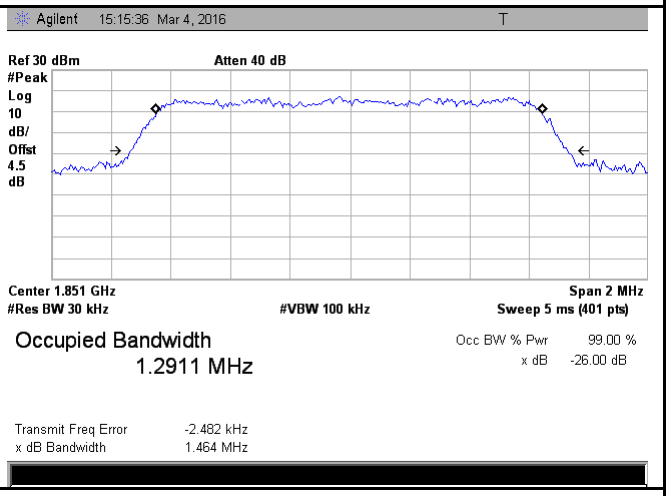
Cellular Band - Low CH



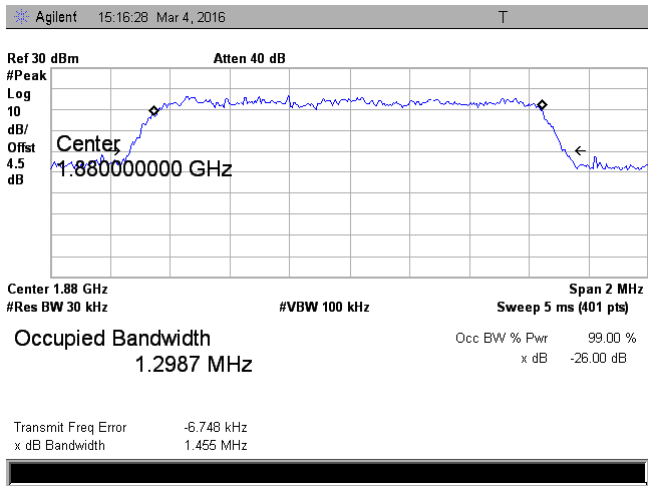
Cellular Band - Mid CH



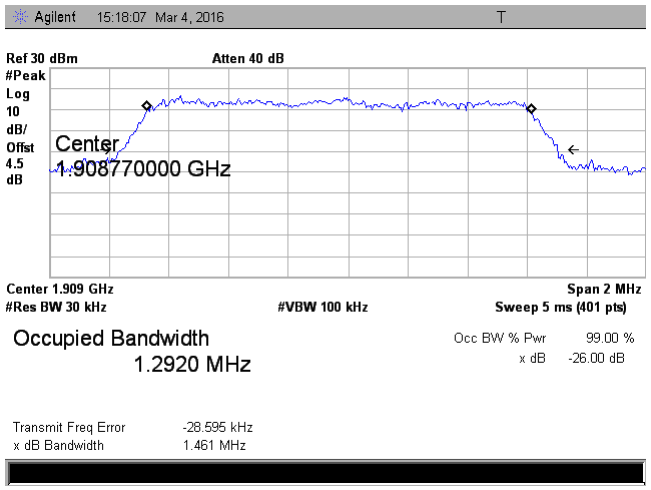
Cellular Band - High CH



PCS Band - Low CH



PCS Band - Mid CH

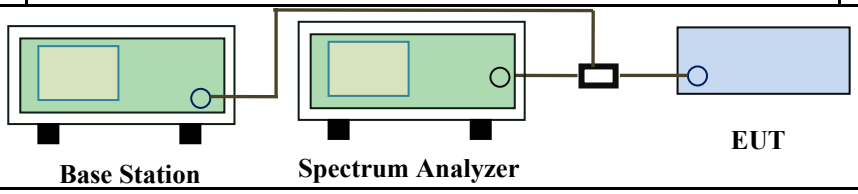


PCS Band - High CH

6.6 Spurious Emissions at Antenna Terminals

Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	March 04, 2016
Tested By :	Winnie Zhang

Requirement(s):

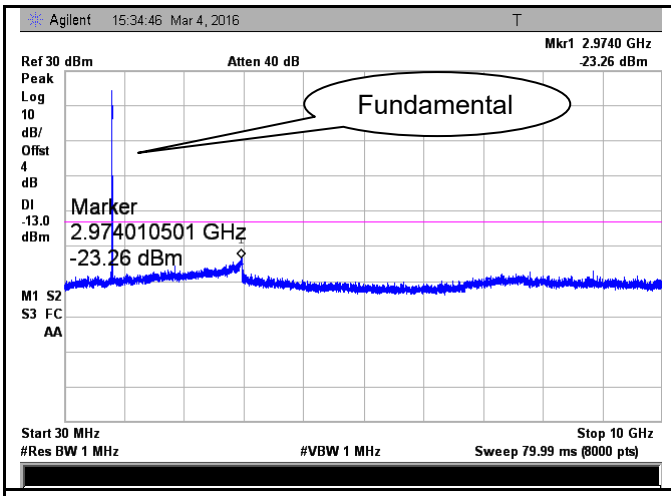
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB	☑
Test Setup			
Test Procedure	- The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. - Setting RBW as roughly BW/100.		
Remark			
Result	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

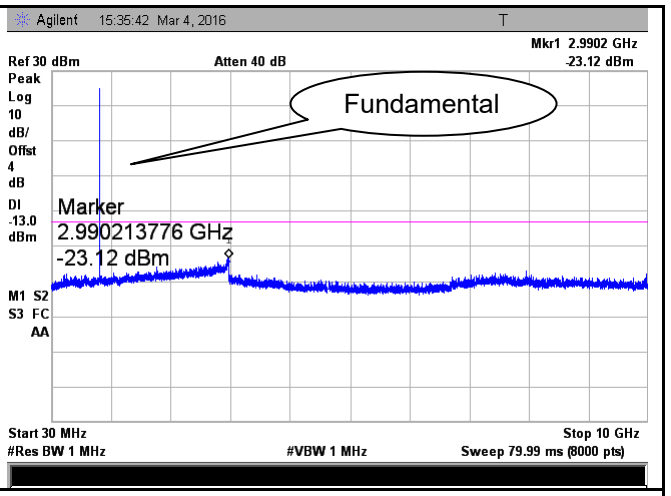
Test Plot ☑ Yes (See below) ☐ N/A

Test Plots

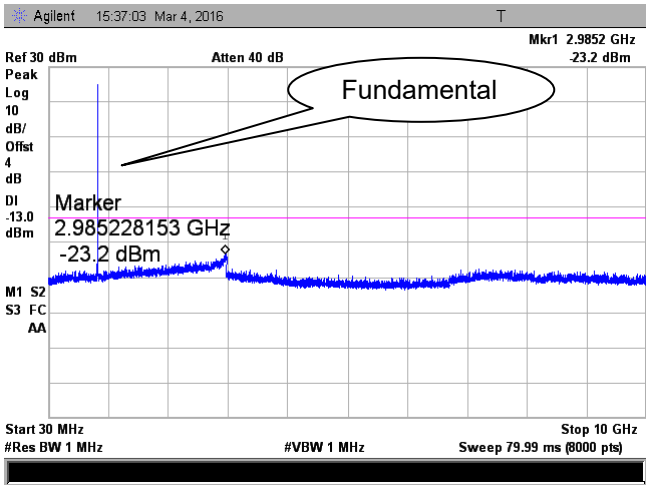
Cellular Band (Part 22H) result



Cellular Band - Low Channel

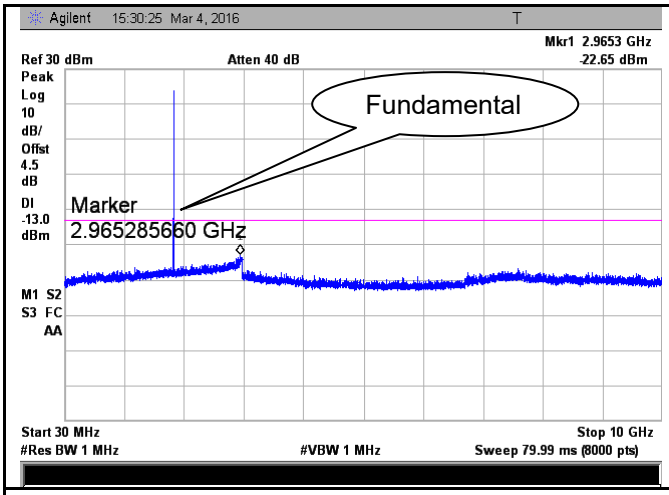


Cellular Band Middle Channel

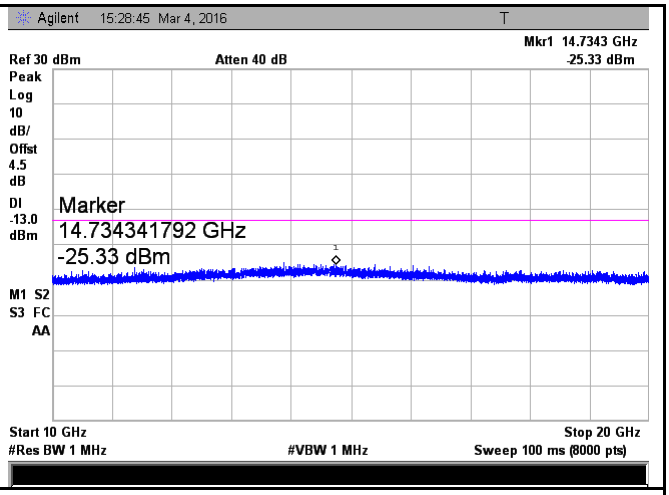


Cellular Band - High Channel

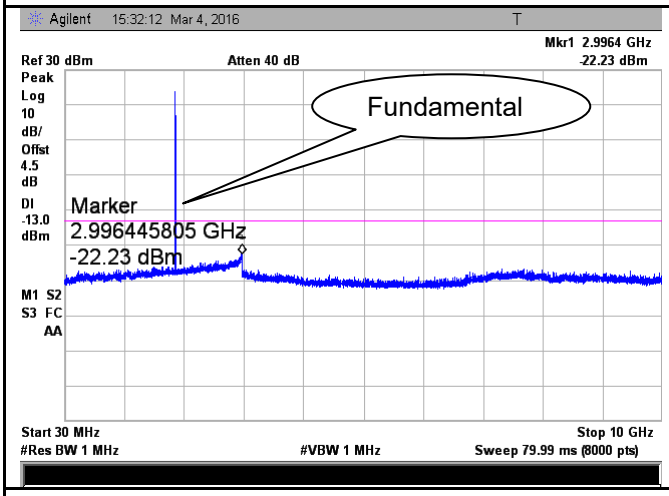
PCS Band (Part24E) result



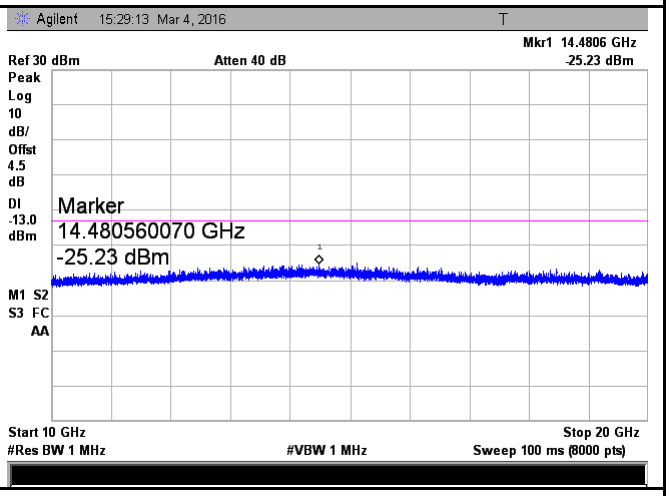
PCS Band - Low Channel-1



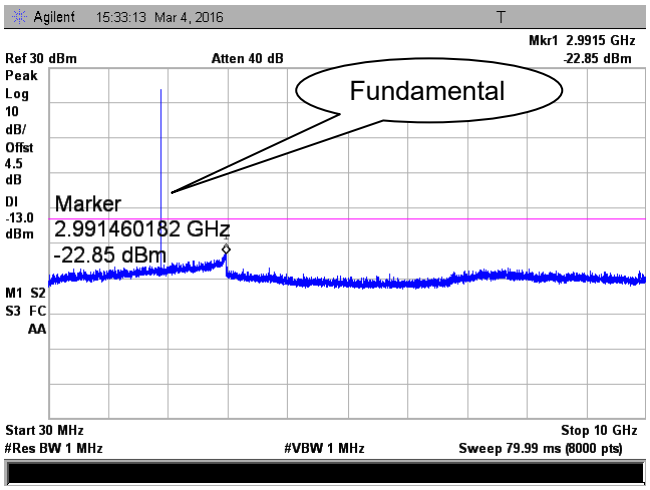
PCS Band - Low Channel-2



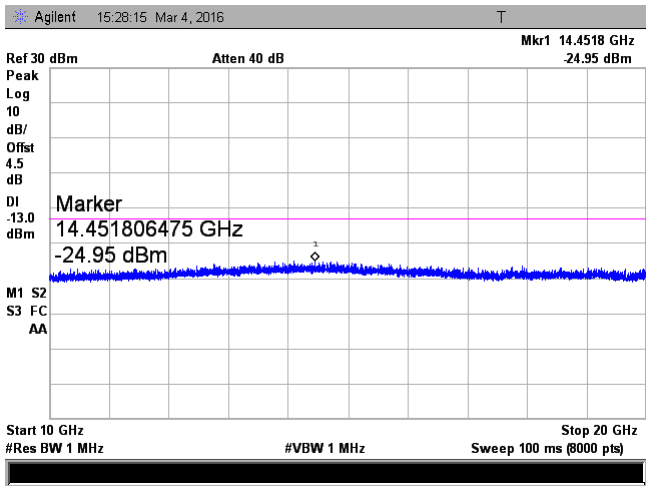
PCS Band - Middle Channel-1



PCS Band - Middle Channel-2



PCS Band - High Channel-1

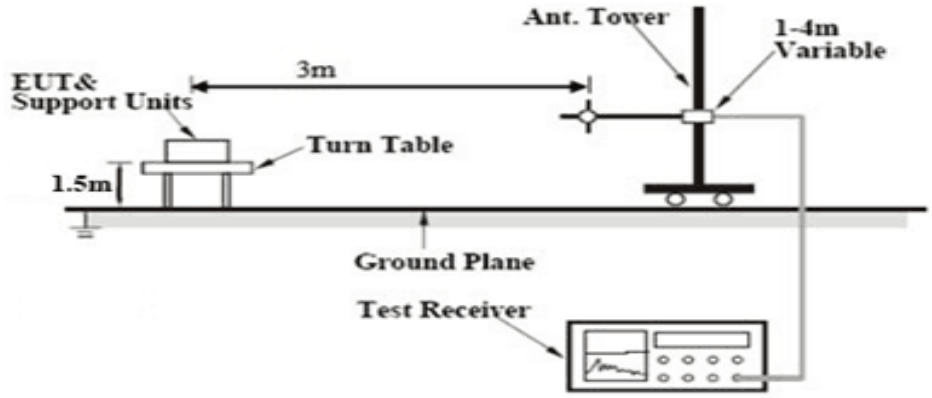


PCS Band - High Channel-2

6.7 Spurious Radiated Emissions

Temperature	24℃
Relative Humidity	59%
Atmospheric Pressure	1007mbar
Test date :	March 07, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	☑
Test setup			
Test Procedure	1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. 3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. Sample Calculation: EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)		

Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☑ N/A

Cellular Band (Part 22H) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1649.4	-42.68	V	7.95	0.78	-35.51	-13	-22.51
1649.4	-41.38	H	7.95	0.78	-34.21	-13	-21.21
235.3	-49.64	V	6.3	0.21	-43.55	-13	-30.55
518.7	-49.17	H	6.5	0.34	-43.01	-13	-30.01

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673	-42.55	V	7.95	0.78	-35.38	-13	-22.38
1673	-41.69	H	7.95	0.78	-34.52	-13	-21.52
235.8	-49.89	V	6.3	0.21	-43.8	-13	-30.80
518.1	-49.43	H	6.5	0.34	-43.27	-13	-30.27

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1696.7	-42.89	V	7.95	0.78	-35.72	-13	-22.72
1696.7	-41.61	H	7.95	0.78	-34.44	-13	-21.44
236.5	-49.56	V	6.3	0.21	-43.47	-13	-30.47
518.4	-49.29	H	6.5	0.34	-43.13	-13	-30.13

Note:

*1, The testing has been conformed to 10*848.37MHz=8483.7MHz*
2, All other emissions more than 30 dB below the limit

PCS Band (Part24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3702.5	-49.32	V	10.25	2.73	-41.8	-13	-28.8
3702.5	-47.92	H	10.25	2.73	-40.4	-13	-27.4
234.9	-51.94	V	6.3	0.21	-45.85	-13	-32.85
517.5	-51.53	H	6.5	0.34	-45.37	-13	-32.37

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.46	V	10.25	2.73	-41.94	-13	-28.94
3760	-47.84	H	10.25	2.73	-40.32	-13	-27.32
235.6	-51.65	V	6.3	0.21	-45.56	-13	-32.56
517.8	-51.47	H	6.5	0.34	-45.31	-13	-32.31

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3817.5	-49.12	V	10.36	2.73	-41.49	-13	-28.49
3817.5	-47.82	H	10.36	2.73	-40.19	-13	-27.19
234.8	-51.83	V	6.3	0.21	-45.74	-13	-32.74
517.6	-51.31	H	6.5	0.34	-45.15	-13	-32.15

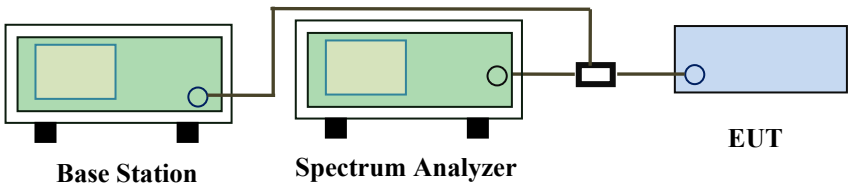
Note:

*1, The testing has been conformed to 10*1908.75MHz=19087.5MHz*
2, All other emissions more than 30 dB below the limit

6.8 Band Edge

Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	March 04, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.	☑
Test setup			
Procedure	- The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.		
Remark			
Result	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

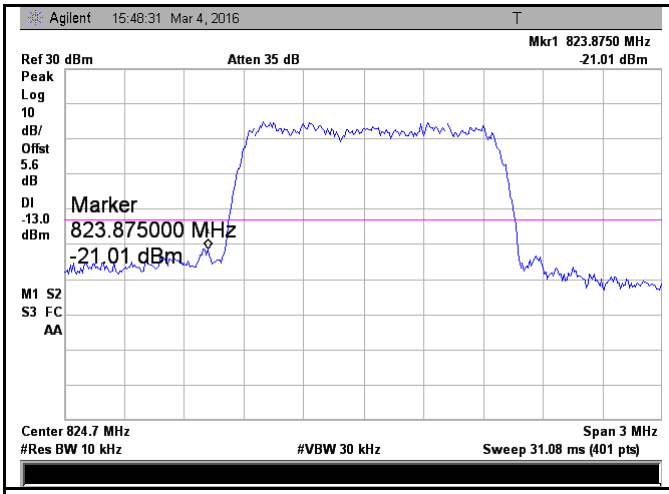
Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.8750	-21.01	-13
849.2100	-18.93	-13

PCS Band (Part24E) result

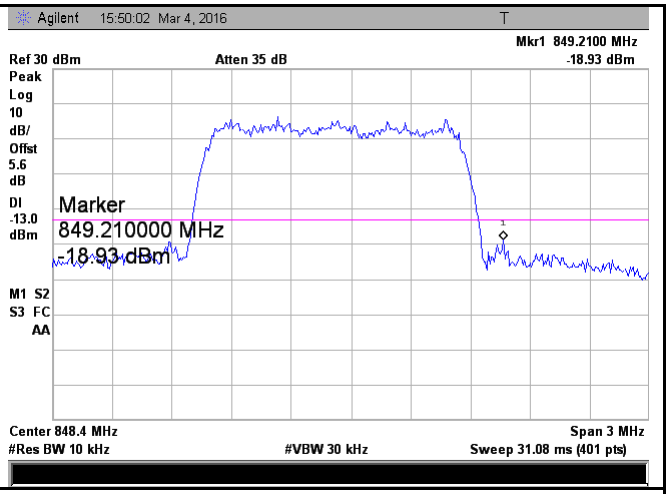
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.4200	-16.30	-13
1909.5575	-19.10	-13

Test Plots



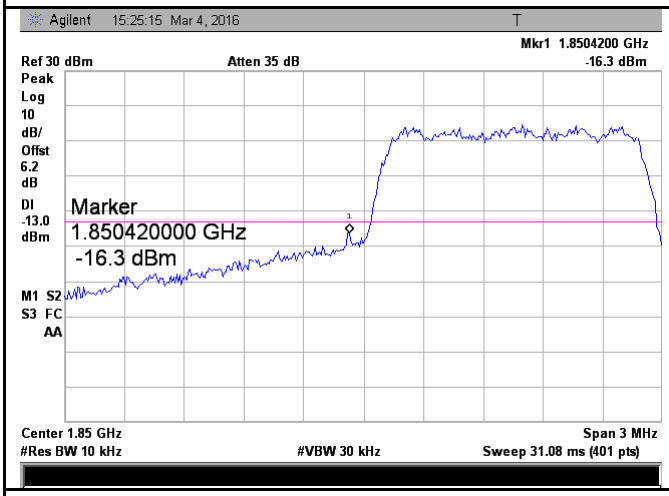
Cellular Band - Low Channel

Note: Offset=Cable loss (4.0) + 10log (1.432)=4.0+1.6=5.6 dB



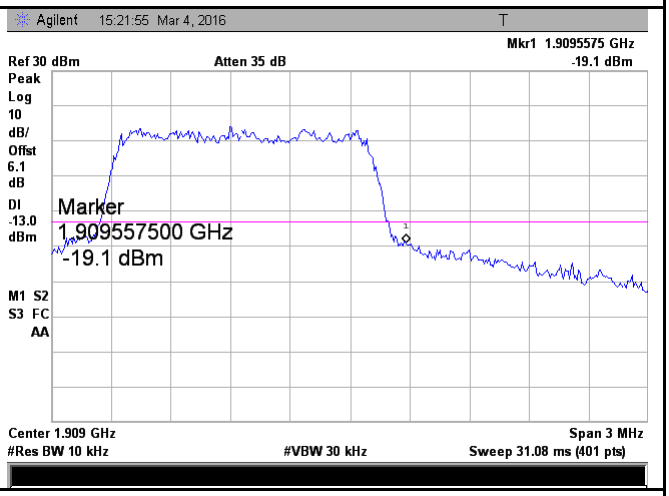
Cellular Band - High Channel

Note: Offset=Cable loss (4.0) + 10log (1.446)=4.0+1.6=5.6 dB



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log (1.464)=4.5+1.7=6.2 dB



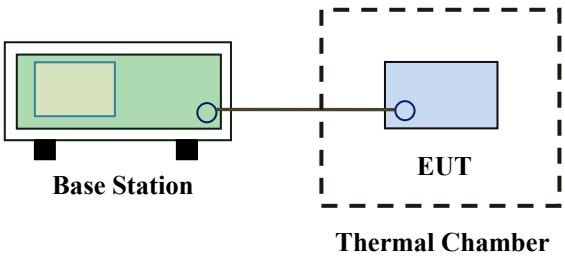
PCS Band - High Channel

Note: Offset=Cable loss (4.5) + 10log (1.461)=4.5+1.6=6.1 dB

6.9 Frequency Stability

Temperature	23℃
Relative Humidity	55%
Atmospheric Pressure	1003mbar
Test date :	March 03, 2016
Tested By :	Winnie Zhang

Requirement(s):

<table>
<tr><th>Spec</th><th>Item</th><th>Requirement</th><th>Applicable</th></tr>
<tr><td>§2.1055, §22.355 & §24.235</td><td>a)</td><td>According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:
Frequency Tolerance for Transmitters in the Public Mobile Services
<table>
<tr><th>Frequency Range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th><th>Mobile ≤ 3 watts (ppm)</th></tr>
<tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr>
<tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr>
<tr><td>450 to 51</td><td>2.5</td><td>5.</td><td>5.0</td></tr>
<tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr>
<tr><td>928 to 929.</td><td>5 0</td><td>N/A</td><td>N/A</td></tr>
<tr><td>929 to 960.</td><td>1.5</td><td>N/A</td><td>N/A</td></tr>
<tr><td>2110 to 2220</td><td>10.0</td><td>N/A</td><td>N/A</td></tr>
</table>
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.</td><td>☑</td></tr>
<tr><td>Test setup</td><td colspan="3"> 
</td></tr>
</table>

Procedure	A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage. Limit: The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.
Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☑ N/A

Cellular Band (Part 22H) result

Middle Channel, f_o = 836.52 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	18	0.0215	2.5
0		17	0.0203	2.5
10		14	0.0167	2.5
20		14	0.0167	2.5
30		13	0.0155	2.5
40		18	0.0215	2.5
50		12	0.0143	2.5
55		18	0.0215	2.5
25	4.2	16	0.0191	2.5
	3.5	20	0.0239	2.5

PCS Band (Part 24E) result

Middle Channel, f_o = 1880 MHz				
Temperature (℃)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	23	0.0122	2.5
0		19	0.0101	2.5
10		16	0.0085	2.5
20		14	0.0074	2.5
30		13	0.0069	2.5
40		20	0.0106	2.5
50		23	0.0122	2.5
55		24	0.0128	2.5
25	4.2	20	0.0106	2.5
	3.5	21	0.0112	2.5

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	09/16/2015	09/16/2015	09/15/2016	☑
Power Splitter	1#	09/01/2015	09/01/2015	08/31/2016	☑
Universal Radio Communication Tester	CMU200	09/25/2015	09/25/2015	09/24/2016	☑
Power Amplifier	SMC150D	R1553-0313	03/10/2015	03/10/2016	☑
Power Amplifier	S41-25D	R1553-0314	05/28/2015	05/28/2016	☑
Temperature/Humidity Chamber	UHL-270	10/09/2015	10/09/2015	10/08/2016	☑
DC Power Supply	E3640A	09/17/2015	09/17/2015	09/16/2016	☑
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	☑
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	☑
Microwave Preamplifier (0.5 ~ 18GHz)	PAM-118	443008	03/25/2015	03/24/2016	☑
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	☑
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/21/2015	09/20/2016	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/24/2015	09/23/2016	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	☑
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2015	09/16/2016	☑
Tunable Notch Filter	3NF-800/1000-S	AA4	09/01/2015	08/31/2016	☑
Tunable Notch Filter	3NF-1000/2000-S	AM 4	09/01/2015	08/31/2016	☑

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package - Top View

Adapter - Front View

EUT - Front View

EUT - Rear View

EUT - Top View

EUT - Bottom View

EUT - Left View

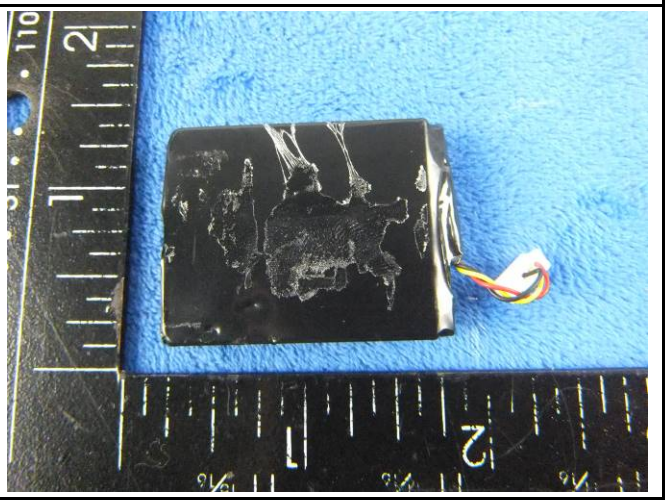
EUT - Right View

Annex B.ii. Photograph: EUT Internal Photo

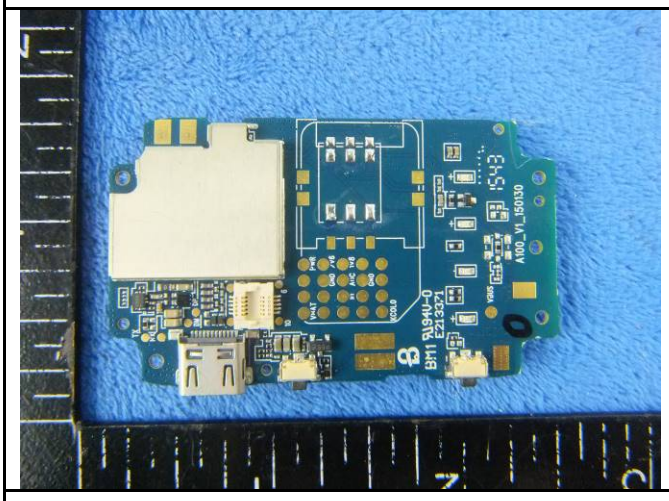
Cover Off - Top View 1

Cover Off - Top View 2

Battery - Front View

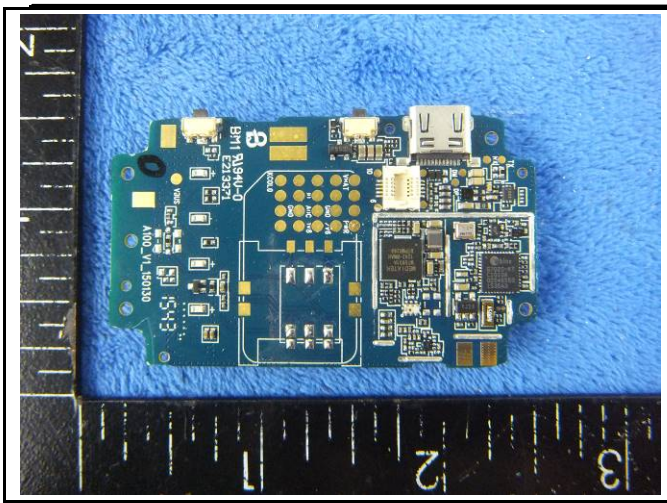


Battery - Rear View

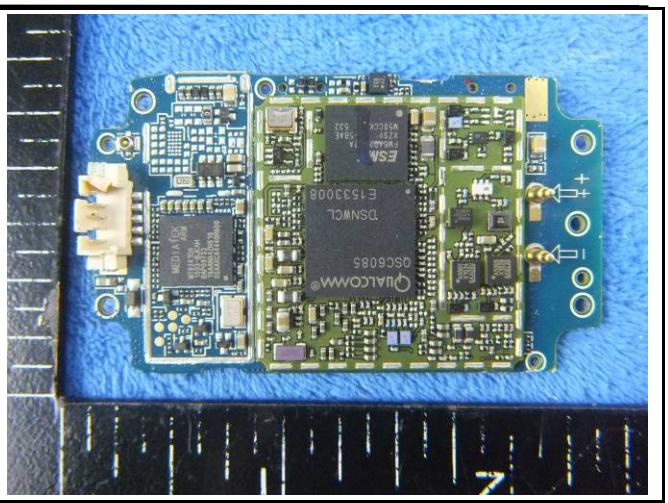


Mainbard with Shielding - Front View

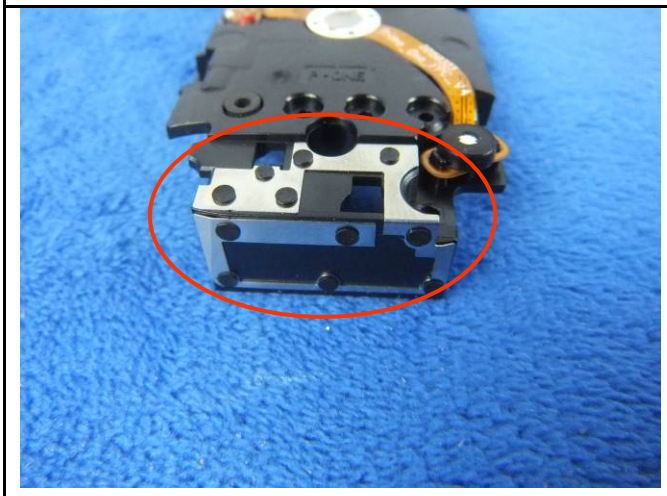
Mainbard with Shielding - Rear View



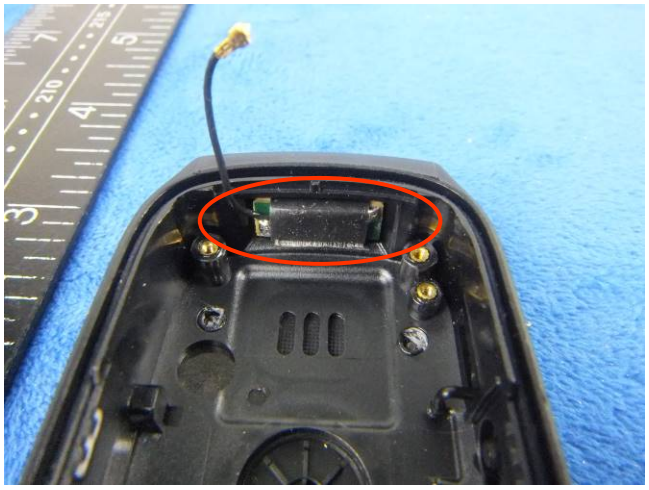
Mainboard without shielding - Front View



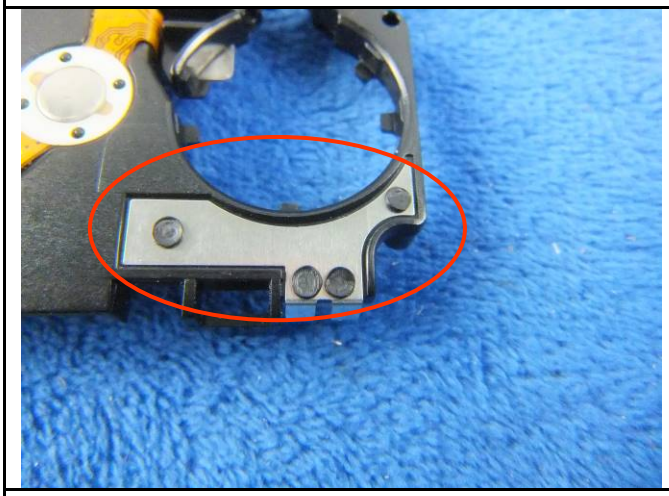
Mainbard without Shielding - Rear View



CDMA - Antenna View

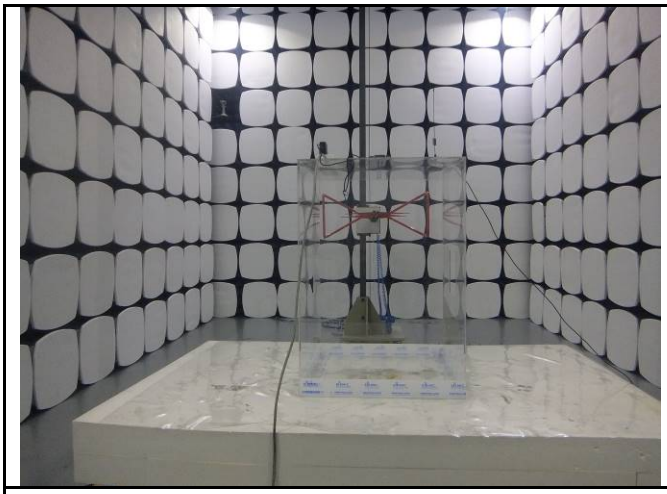
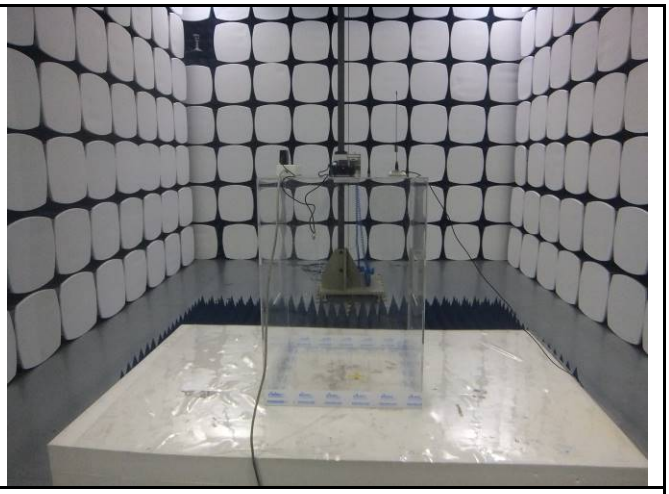


GPS - Antenna View



WIFI - Antenna View

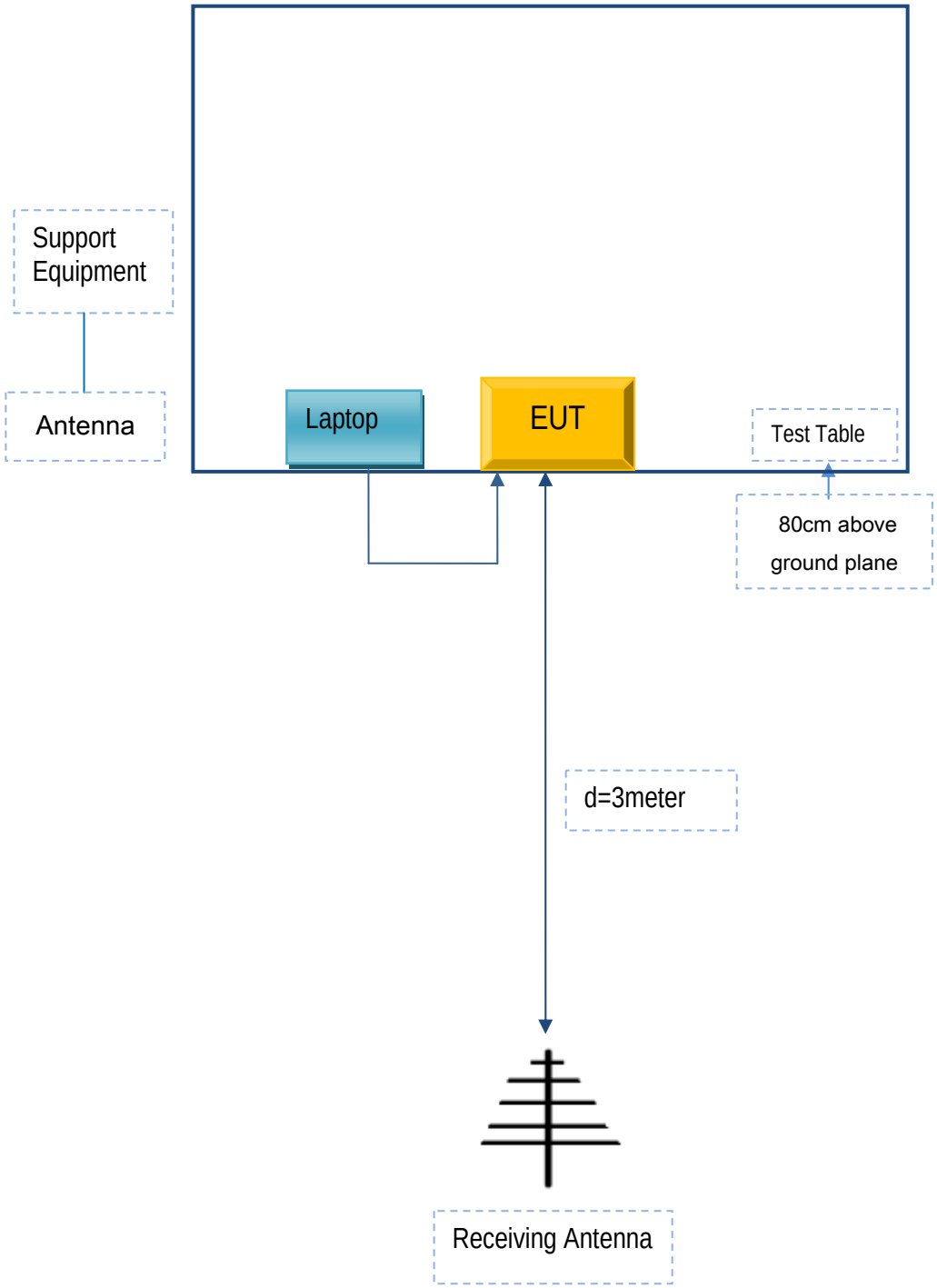
Annex B.iii. Photograph: Test Setup Photo

	
Radiated Spurious Emissions Test Setup Below 1GHz	Radiated Spurious Emissions Test Setup Above 1GHz

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions



Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Serial No
Micron Electronics LLC.	Adapter	K05100-3	JX05100

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	JX04022

Annex C.ii. EUT OPERATING CONKITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.
Others Testing	The EUT was communicating with base station and set to work at maximum output power.

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

Annex E. DECLARATION OF SIMILARITY

N/A