



RADIO TEST REPORT

Report No: STS1507007F04

Issued for

AMER MOBILE CO., LIMITED

9/F, Nongke Business Center, No. 8133, Hongli West Road, Futian District, Shenzhen, China

L A B

Product Name:	Smart Phone OWN Style
Brand Name:	OWN
Model No.:	OWN Style
Series Model:	N/A
FCC ID:	2AE7XS508A
Test Standard:	FCC Part 15.247

Any reproduction of this document must be done in full. No single part of this document may be reproduced permission from STS, All Test Data Presented in this report is only applicable to presented the stample of the



TEST RESULT CERTIFICATION

Applicant's name:	AMER MOBILE CO.,LIMITED			
Address:	9/F, Nongke Business Center, No. 8133, Hongli West Road, Futian District, Shenzhen, China			
Manufacture's Name:	AMER MOBILE CO.,LIMITED			
Address:	9/F, Nongke Business Center, No. 8133, Hongli West Road, Futian District, Shenzhen, China			
Product description				
Product name:	Smart Phone OWN Style			
Model and/or type reference :	OWN Style			
Serial Model::	N/A			
Standards::	FCC Part15.247			
Test procedure:	ANSI C63.10-2013			
under test (EUT) is in compliance sample identified in the report. This report shall not be reproduced	been tested by STS, and the test results show that the equipment with the FCC requirements. And it is applicable only to the tested d except in full, without the written approval of STS, this document personal only, and shall be noted in the revision of the document			
Date of Test	:			
Date (s) of performance of tests	: 01 July. 2015 ~07 July. 2015			
Date of Issue	: 08 July. 2015			
Test Result	: Pass			

Technical Manager:

(Jin Ming)

(Vita Li)

Authorized Signatory:

(Bovey Yang)

Page 3 of 61



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 DESCRIPTION OF TEST MODES	10
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST	11
2.4 DESCRIPTION OF SUPPORT UNITS	11
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3. EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	13
3.1.2 TEST RESULT	14
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS	16 16
3.2.2 TEST PROCEDURE	17
3.2.3 TEST SETUP	18
3.2.4 EUT OPERATING CONDITIONS	19
3.2.5 TEST RESULT	20
4. CONDUCTED SPURIOUS EMISSIONS	26
4.1 APPLIED PROCEDURES / LIMIT	26
4.2 TEST PROCEDURE	26
4.3 DEVIATION FROM STANDARD	26
4.4 TEST SETUP	26
4.5 EUT OPERATION CONDITIONS	26
4.6 TEST RESULTS	27
5. POWER SPECTRAL DENSITY TEST	39
5.1 APPLIED PROCEDURES / LIMIT	39
5.2 TEST PROCEDURE	39
5.3 DEVIATION FROM STANDARD	39
5.4 TEST SETUP	39
5.5 EUT OPERATION CONDITIONS	39
5.6 TEST RESULTS	40
6. BANDWIDTH TEST	48





Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT	48
6.2 TEST PROCEDURE	48
6.3 DEVIATION FROM STANDARD	48
6.4 TEST SETUP	48
6.5 EUT OPERATION CONDITIONS	48
6.6 TEST RESULTS	49
7. PEAK OUTPUT POWER TEST	57
7.1 APPLIED PROCEDURES / LIMIT	57
7.2 TEST PROCEDURE	57
7.3 DEVIATION FROM STANDARD	57
7.4 TEST SETUP	57
7.5 EUT OPERATION CONDITIONS	57
7.6 TEST RESULTS	58
8. ANTENNA REQUIREMENT	59
8.1 STANDARD REQUIREMENT	59
8.2 EUT ANTENNA	59
APPENDIX - PHOTOS OF TEST SETUP	60



Page 5 of 61 Report No.: STS1507007F04

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	08 July. 2015	STS1507007F04	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b) (reference KDB 558074 d05 v02. /9.1.2)	Peak Output Power	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.247 (d)	Conducted Spurious Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

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



1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone OWN Style				
Trade Name	OWN				
Model Name	OWN Style				
Serial Model	N/A	N/A			
Model Difference	N/A				
	The EUT is a Smar	t Phone OWN Style			
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz			
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK			
Product Description	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/ 117/115.56/104/86.67/78/52/6.5Mbps			
	Number Of Channel	802.11b/g/n20: 11CH 802.11n 40: 7CH			
	Antenna Designation:	Please see Note 3.			
	Antenna Gain (dBi)	0 dbi			
Channel List	Please refer to the	Note 2.			
Ratings	DC 3.8V from batte	ery			
Adapter	Power supply and ADP (rating): Input:100-240V AC,50/60Hz 200mA Output:5.0V,1000mA				
Battery	Rated Voltage: 3.8V capacity : 2000mA				
Hardware version number	B507_MB_P2				
Software versioning number	Style_SW0_V010				
Connecting I/O Port(s)	Please refer to the User's Manual				

Note:

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

2

	Channel List for 802.11b/g/n(20MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

	Channel List for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	PIFA Antenna	N/A	0	N/A



2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	Low
Mode 2	Middle
Mode 3	High
Mode 4	Charging + Keeping TX mode

For Conducted Emission			
Final Test Mode	Description		
Mode 4	Charging + Keeping TX mode		

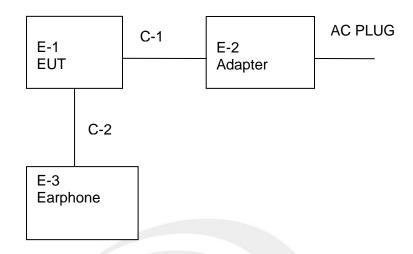
For Radiated Emission				
Final Test Mode Description				
Mode 1	Low			
Mode 2	Middle			
Mode 3	High			
Mode 4	Charging + Keeping TX mode			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Smart Phone OWN Style	OWN	OWN Style	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	unshielded	NO	102cm	N/A
C-2	unshielded	NO	109cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.





2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Radiation rest equipment							
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24		
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24		
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.25	2015.11.24		
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.06	2016.03.05		
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05		
PreAmplifier	Agilent	8449B	60538	2014.10.25	2015.10.24		
Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07		
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2014.10.25	2015.10.24		

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2014.11.20	2015.11.19
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

	Class B	Ctondord	
FREQUENCY (MHz)	Quasi-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

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

Note:

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

The following table is the setting of the receiver





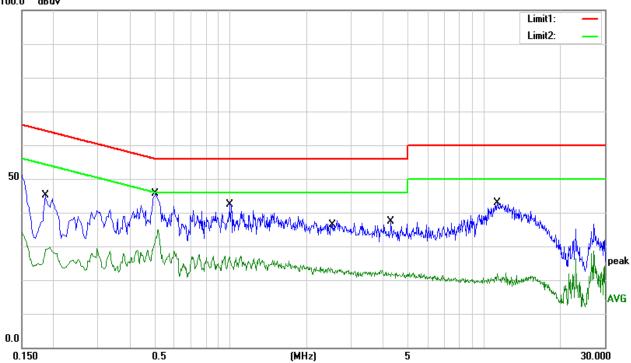
3.1.2 TEST RESULT

EUT:	Smart Phone OWN Style	Model Name.:	OWN Style
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 5V from Adapter AC120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1856	31.23	10.00	41.23	64.23	-23.00	QP
0.1856	19.63	10.00	29.63	54.23	-24.60	AVG
0.5080	32.22	9.90	42.12	56.00	-13.88	QP
0.5080	21.76	9.90	31.66	46.00	-14.34	AVG
1.0002	24.39	9.90	34.29	56.00	-21.71	QP
1.0002	14.13	9.90	24.03	46.00	-21.97	AVG
2.5612	20.66	10.00	30.66	56.00	-25.34	QP
2.5612	11.51	10.00	21.51	46.00	-24.49	AVG
4.3243	18.54	10.20	28.74	56.00	-27.26	QP
4.3243	10.12	10.20	20.32	46.00	-25.68	AVG
11.3584	24.31	10.37	34.68	60.00	-25.32	QP
11.3584	7.92	10.37	18.29	50.00	-31.71	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





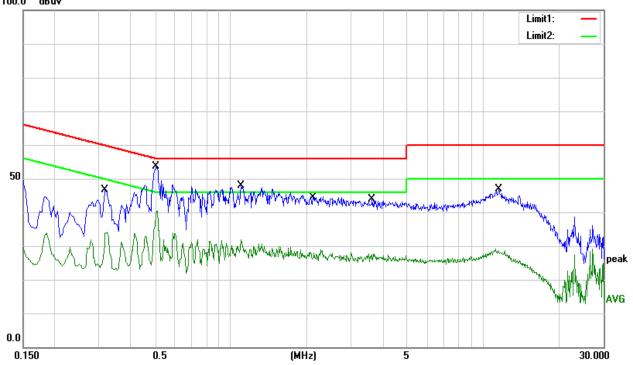


EUT:	Smart Phone OWN Style	Model Name.:	OWN Style
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 5V from Adapter AC120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.3192	33.31	9.92	43.23	59.73	-16.50	QP
0.3192	22.76	9.92	32.68	49.73	-17.05	AVG
0.5056	40.03	9.90	49.93	56.00	-6.07	QP
0.5056	26.04	9.90	35.94	46.00	-10.06	AVG
1.0986	31.83	10.00	41.83	56.00	-14.17	QP
1.0986	18.14	10.00	28.14	46.00	-17.86	AVG
2.1144	27.62	10.00	37.62	56.00	-18.38	QP
2.1144	15.30	10.00	25.30	46.00	-20.70	AVG
3.6477	25.69	10.18	35.87	56.00	-20.13	QP
3.6477	14.25	10.18	24.43	46.00	-21.57	AVG
11.5380	29.20	10.30	39.50	60.00	-20.50	QP
11.5380	15.41	10.30	25.71	50.00	-24.29	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

6 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part 15.247&209(a) limit in the table below has to be followed.

Frequencies	Field Strength Measurement Dista	
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
FREQUENCT (MINZ)	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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



Page 17 of 61 Report No.: STS1507007F04

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10 th carrier hamonic(Peak/AV)
RB / VB (emission in restricted	4 MILIT / 4 MILIT AV/ 2 MILIT
band)	1 MHz / 1 MHz, AV=3 MHz

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

3.2.2 TEST PROCEDURE

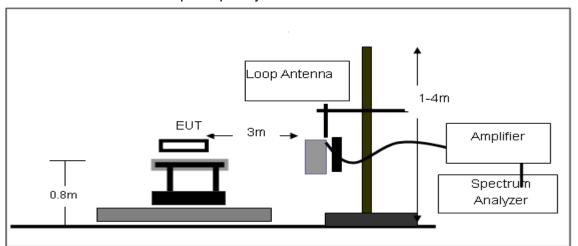
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

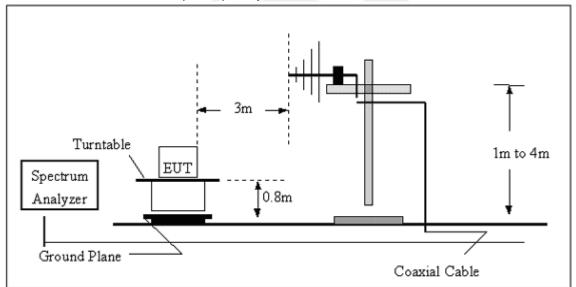


3.2.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

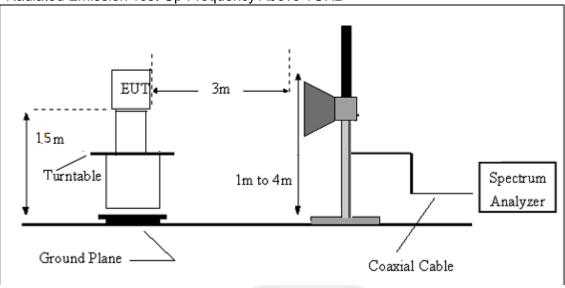


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.5 TEST RESULT

9KHz-30MHz

EUT:	Smart Phone OWN Style	Model Name. :	OWN Style
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa		DC 5V from Adapter with AC 120V/60Hz
Test Mode:	Link mode	Polarization:	

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result
					PASS
					PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.





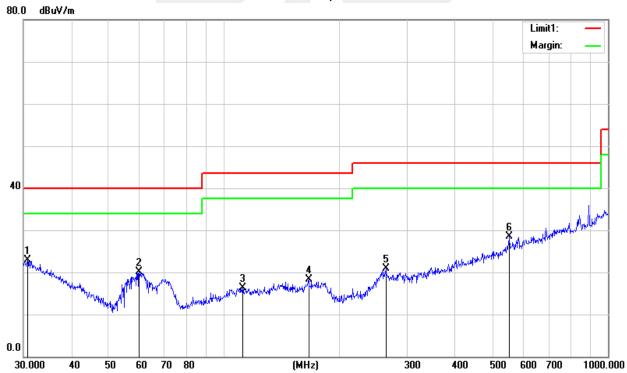
30MHz - 1000MHz

EUT:	Smart Phone OWN Style	Model Name. :	OWN Style
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.7455	4.66	18.32	22.98	40.00	-17.02	QP
60.0691	14.79	5.33	20.12	40.00	-19.88	QP
111.7380	5.00	11.32	16.32	43.50	-27.18	QP
166.0680	7.31	10.93	18.24	43.50	-25.26	QP
263.8190	5.95	14.97	20.92	46.00	-25.08	QP
552.8832	5.96	22.57	28.53	46.00	-17.47	QP

Remark:

^{1.} Factor = Antenna Factor + Cable Loss - Pre-amplifier.







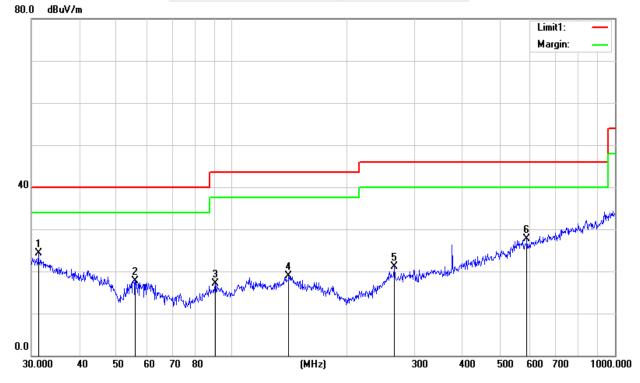
30MHz - 1000MHz

EUT:	Smart Phone OWN Style	Model Name. :	OWN Style
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa		DC 5V from Adapter with AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
31.2893	6.22	18.03	24.25	40.00	-15.75	QP
56.0007	11.82	5.98	17.80	40.00	-22.20	QP
90.5374	7.47	9.59	17.06	43.50	-26.44	QP
140.8351	6.29	12.52	18.81	43.50	-24.69	QP
265.6757	6.23	14.90	21.13	46.00	-24.87	QP
588.9050	5.40	22.23	27.63	46.00	-18.37	QP

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





Above 1000MHz

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HEST VOUZOE .	DC 5V from Adapter with AC 120V/60Hz

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
	Low Channel (802.11b/2412 MHz)						
4824.20	66.42	-3.58	62.84	74	-11.16	PK	Vertical
4824.21	47.06	-3.58	43.48	54	-10.52	AV	Vertical
7236.13	61.99	-0.8	61.19	74	-12.81	PK	Vertical
7236.12	41.19	-0.8	40.39	54	-13.61	AV	Vertical
4824.20	62.08	-3.58	58.5	74	-15.5	PK	Horizontal
4824.22	44.11	-3.58	40.53	54	-13.47	AV	Horizontal
	Mid Channel (802.11b/2437 MHz)						
4874.08	65.19	-3.56	61.63	74	-12.37	PK	Vertical
4874.07	48.91	-3.56	45.35	54	-8.65	AV	Vertical
7311.22	60.89	-0.78	60.11	74	-13.89	PK	Vertical
7311.21	44.11	-0.78	43.33	54	-10.67	AV	Vertical
4874.17	61.28	-3.56	57.72	74	-16.28	PK	Horizontal
4874.15	44.89	-3.56	41.33	54	-12.67	AV	Horizontal
		High	Channel (802.	11b/2462 MHz	<u>z</u>)		
4944.25	61.26	-3.54	57.72	74	-16.28	PK	Vertical
4944.31	45.34	-3.54	41.8	54	-12.2	AV	Vertical
7416.32	61.41	-0.75	60.66	74	-13.34	PK	Vertical
7416.30	45.58	-0.75	44.83	54	-9.17	AV	Vertical
4944.26	61.02	-3.54	57.48	74	-16.52	PK	Horizontal
4944.31	45.37	-3.54	41.83	54	-12.17	AV	Horizontal

Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40), the worst case is 802.11b.



3.2.6 TEST RESULTS (Band edge)

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
			802.11	l b			
2399.9	68.38	-12.99	55.39	74	-18.61	PK	Vertical
2399.9	54.28	-12.99	41.29	54	-12.71	AV	Vertical
2399.9	69.26	-12.99	56.27	74	-17.73	PK	Horizontal
2399.9	53.39	-12.99	40.4	54	-13.6	AV	Horizontal
2483.6	70.14	-12.78	57.36	74	-16.64	PK	Vertical
2483.6	52.89	-12.78	40.11	54	-13.89	AV	Vertical
2483.6	70.15	-12.78	57.37	74	-16.63	PK	Horizontal
2483.6	53.01	-12.78	40.23	54	-13.77	AV	Horizontal
	\		802.11	g	7		
2399.9	68.01	-12.99	55.02	74	-18.98	PK	Vertical
2399.9	54.19	-12.99	41.2	54	-12.8	AV	Vertical
2399.9	68.97	-12.99	55.98	74	-18.02	PK	Horizontal
2399.9	52.88	-12.99	39.89	54	-14.11	AV	Horizontal
2483.6	70.20	-12.78	57.42	74	-16.58	PK	Vertical
2483.6	53.39	-12.78	40.61	54	-13.39	AV	Vertical
2483.6	70.18	-12.78	57.4	74	-16.6	PK	Horizontal
2483.6	53.02	-12.78	40.24	54	-13.76	AV	Horizontal



	802.11 n20						
2399.9	68.01	-12.99	55.02	74	-18.98	PK	Vertical
2399.9	54.09	-12.99	41.1	54	-12.9	AV	Vertical
2399.9	68.87	-12.99	55.88	74	-18.12	PK	Horizontal
2399.9	53.02	-12.99	40.03	54	-13.97	AV	Horizontal
2483.6	70.07	-12.78	57.29	74	-16.71	PK	Vertical
2483.6	53.28	-12.78	40.5	54	-13.5	AV	Vertical
2483.6	70.22	-12.78	57.44	74	-16.56	PK	Horizontal
2483.6	53.05	-12.78	40.27	54	-13.73	AV	Horizontal
			802.11	n40			
2399.9	68.39	-12.99	55.4	74	-18.6	PK	Vertical
2399.9	54.49	-12.99	41.5	54	-12.5	AV	Vertical
2399.9	69.00	-12.99	56.01	74	-17.99	PK	Horizontal
2399.9	53.03	-12.99	40.04	54	-13.96	AV	Horizontal
2483.6	70.10	-12.78	57.32	74	-16.68	PK	Vertical
2483.6	52.86	-12.78	40.08	54	-13.92	AV	Vertical
2483.6	70.39	-12.78	57.61	74	-16.39	PK	Horizontal
2483.6	53.30	-12.78	40.52	54	-13.48	AV	Horizontal

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

4. CONDUCTED SPURIOUS EMISSIONS

4.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2 TEST PROCEDURE

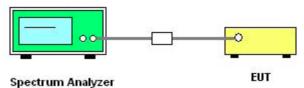
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Ctart/Ctap Fraguency	Lower Band Edge: 2300 to 2430 MHz		
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

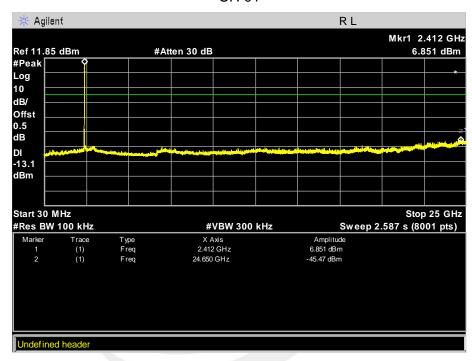
4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

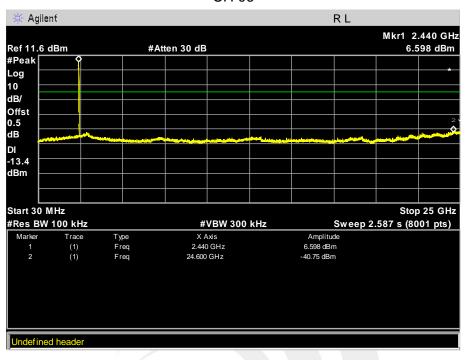


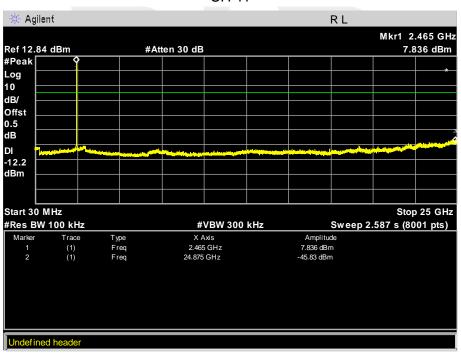
4.6 TEST RESULTS

EUT:	Smart Phone OWN Style	Model Name :	OWN Style		
Temperature :	25 ℃	Relative Humidity:	60%		
Pressure :	1015 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX b Mode /CH01, CH06, CH11				



CH 06



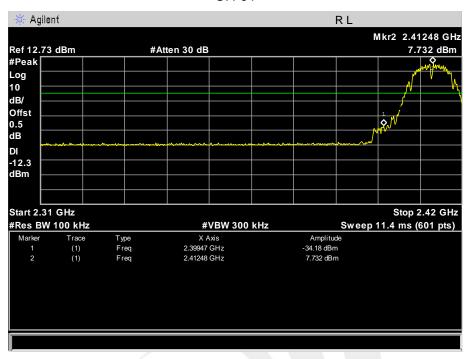


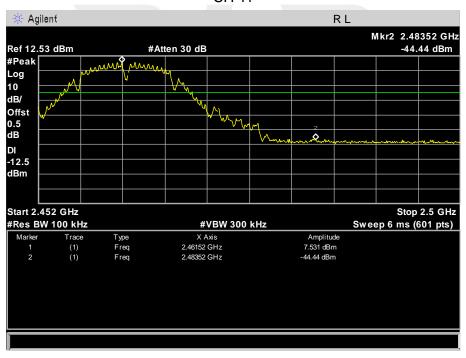




Band edge

CH 01



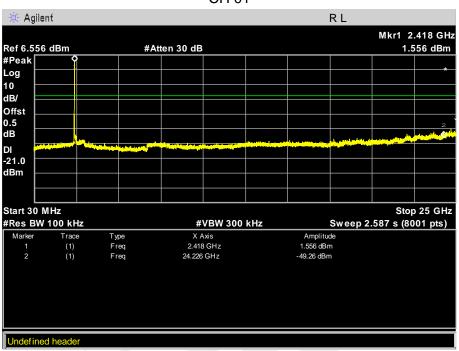


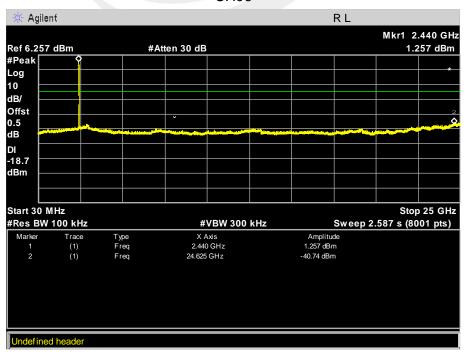


Page 30 of 61 Report No.: STS1507007F04

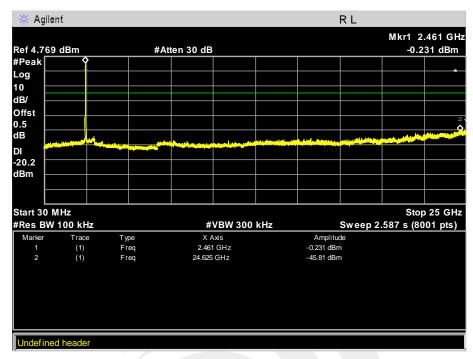
EUT:	Smart Phone OWN Style	Model Name :	OWN Style		
Temperature :	25 ℃	Relative Humidity:	60%		
Pressure :	1015 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX g Mode /CH01, CH06, CH11				









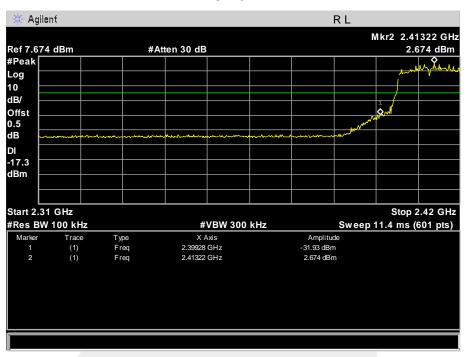


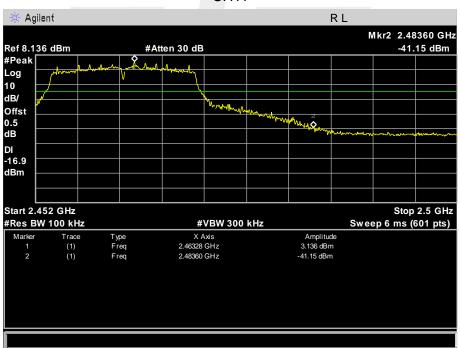




Band edge

CH 01

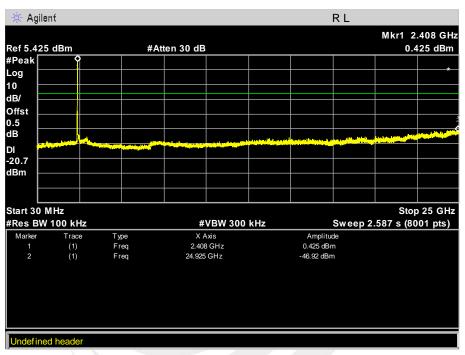




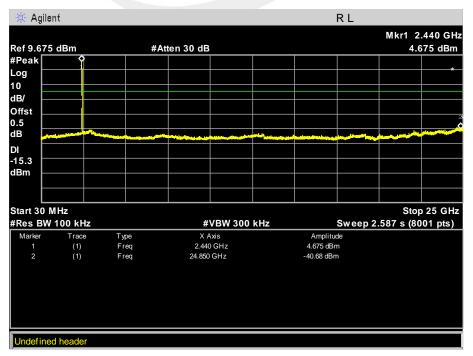


Page 33 of 61 Report No.: STS1507007F04

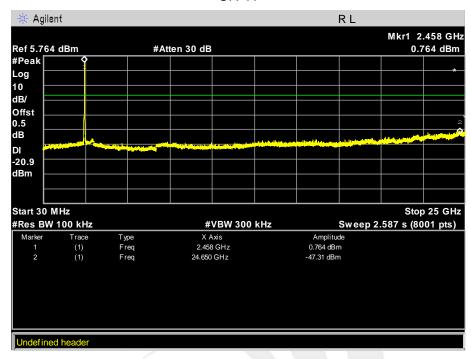
EUT:	Smart Phone OWN Style	Model Name :	OWN Style		
Temperature :	25 ℃	Relative Humidity:	60%		
Pressure :	1015 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11				



CH 06





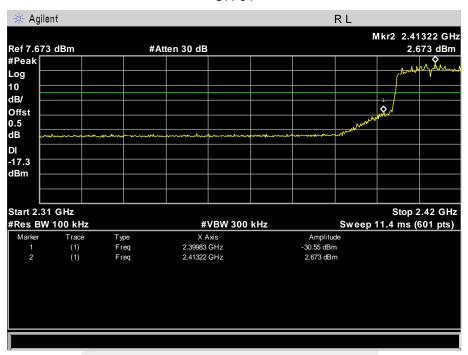


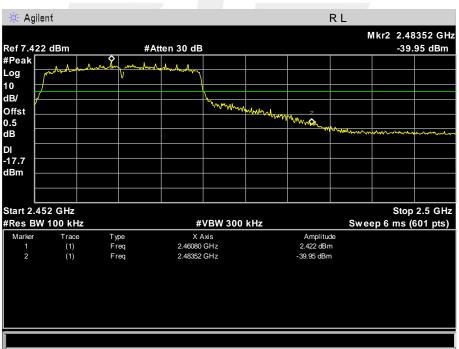




Band edge

CH 01

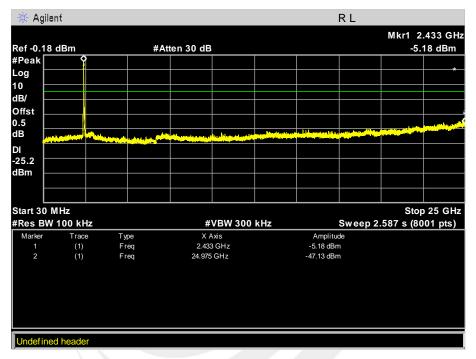






Page 36 of 61 Report No.: STS1507007F04

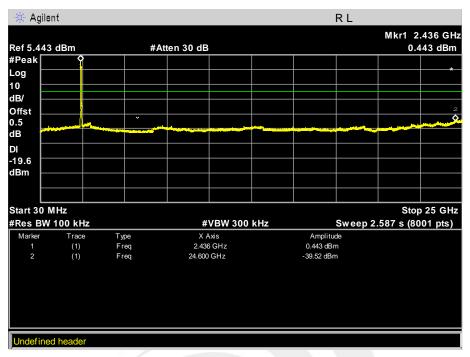
EUT:	Smart Phone OWN Style	Model Name :	OWN Style		
Temperature :	25 ℃	Relative Humidity:	60%		
Pressure :	1015 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09				



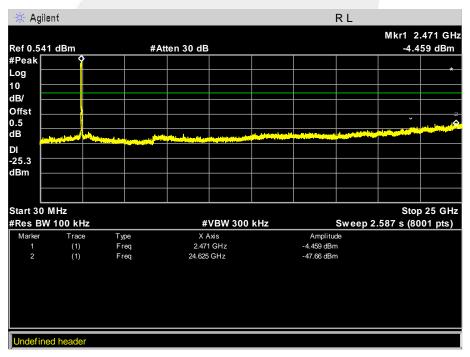




CH06



CH09

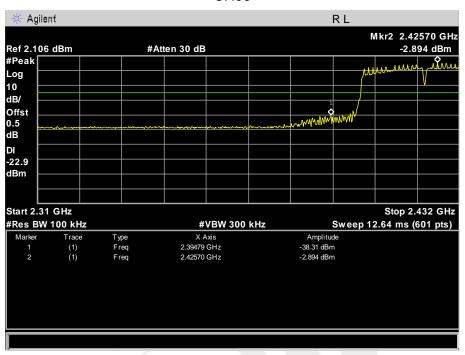




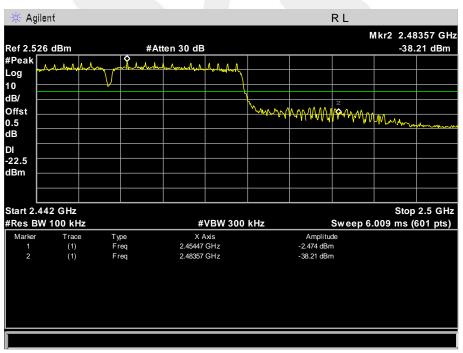


Band edge

CH03



CH 09





5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW ≥ 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULTS

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

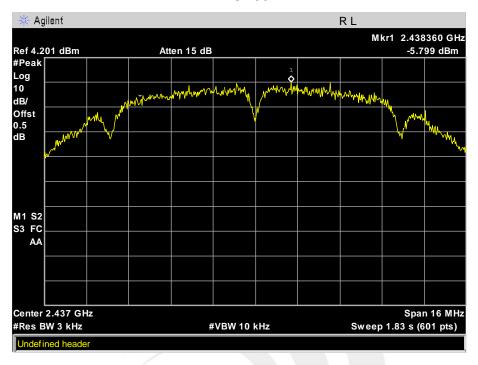
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-6.213	8	PASS
2437 MHz	-5.799	8	PASS
2462 MHz	-5.791	8	PASS

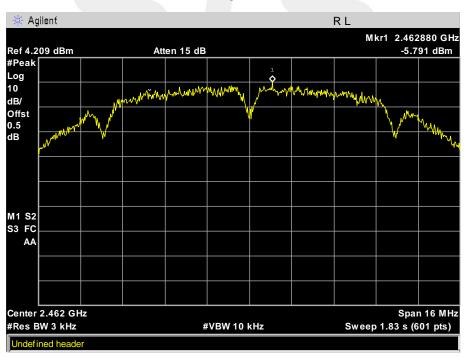






TX CH06



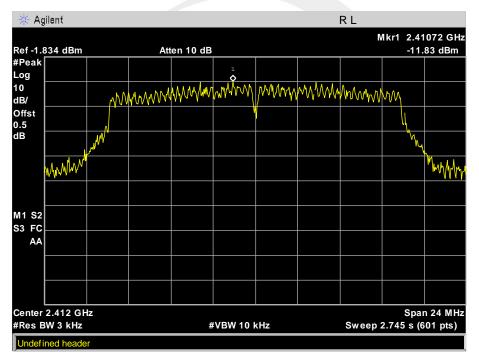




Page 42 of 61 Report No.: STS1507007F04

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

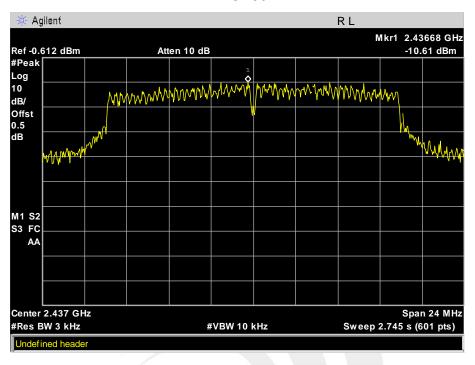
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.83	8	PASS
2437 MHz	-10.61	8	PASS
2462 MHz	-10.85	8	PASS

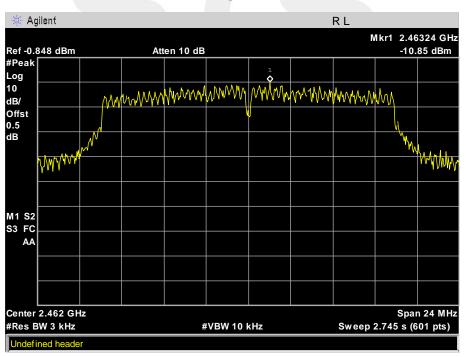










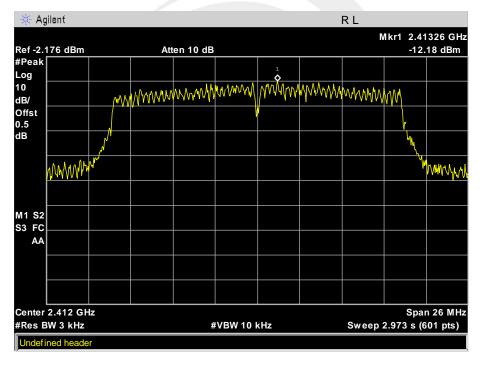




Page 44 of 61 Report No.: STS1507007F04

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

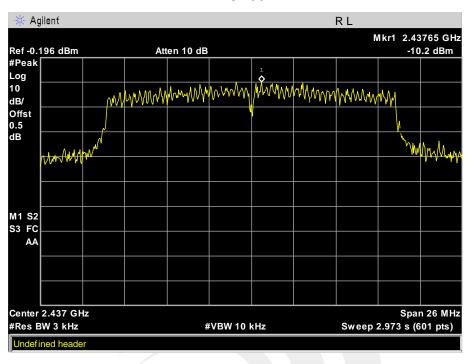
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.18	8	PASS
2437 MHz	-10.20	8	PASS
2462 MHz	-11.74	8	PASS

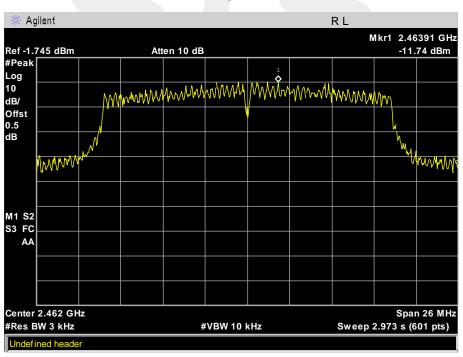






TX CH06



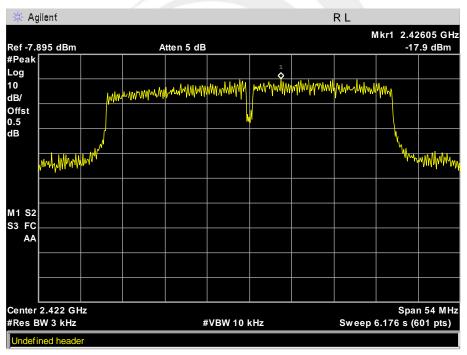




Page 46 of 61 Report No.: STS1507007F04

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

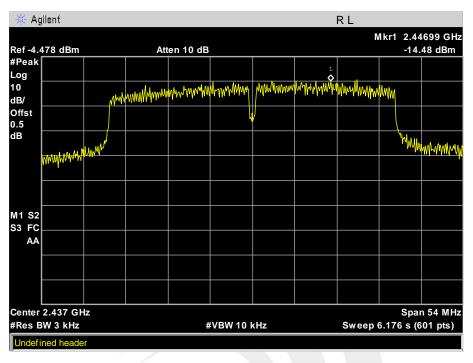
Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-17.90	8	PASS
2437 MHz	-14.48	8	PASS
2452 MHz	-17.86	8	PASS

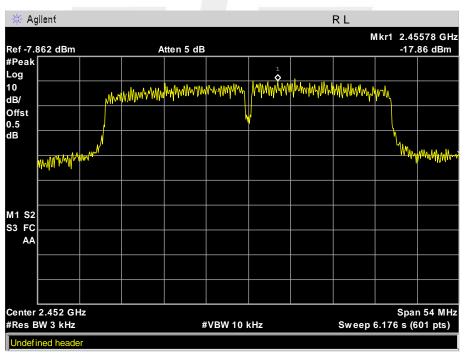






TX CH06







6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 d B relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

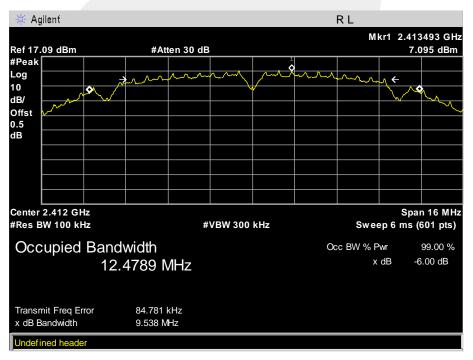
1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong,Chir Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com



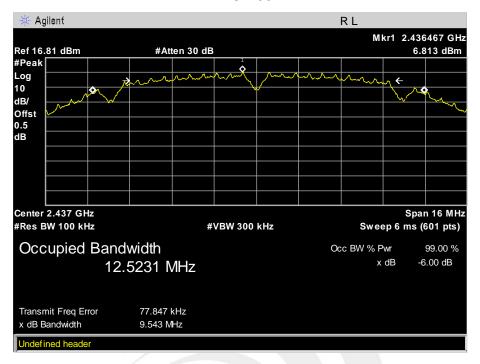
6.6 TEST RESULTS

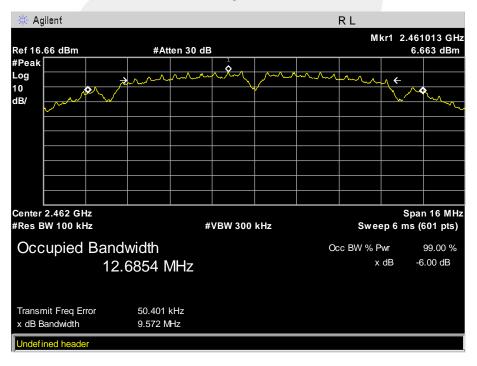
EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	9.538	>=500KHz	PASS
2437 MHz	9.543	>=500KHz	PASS
2462 MHz	9.572	>=500KHz	PASS



TX CH 06



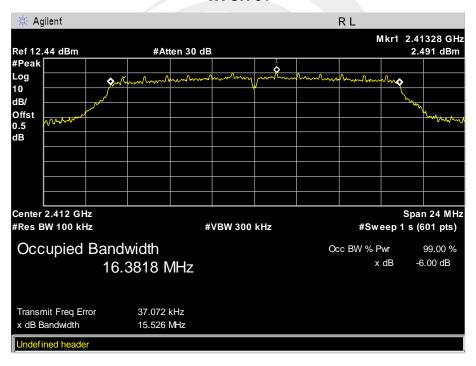




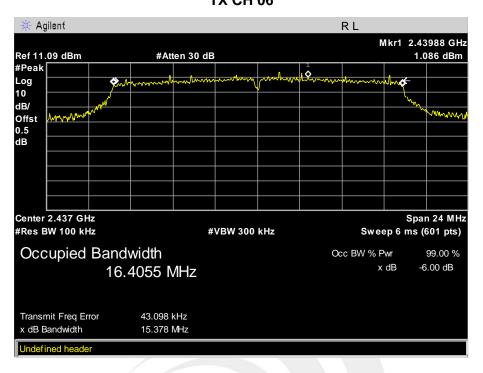
Page 51 of 61 Report No.: STS1507007F04

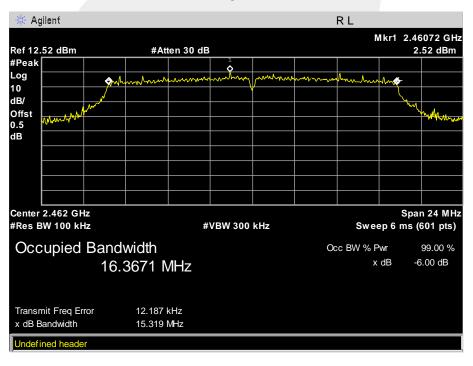
EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.526	>=500KHz	PASS
2437 MHz	15.378	>=500KHz	PASS
2462 MHz	15.319	>=500KHz	PASS



TX CH 06



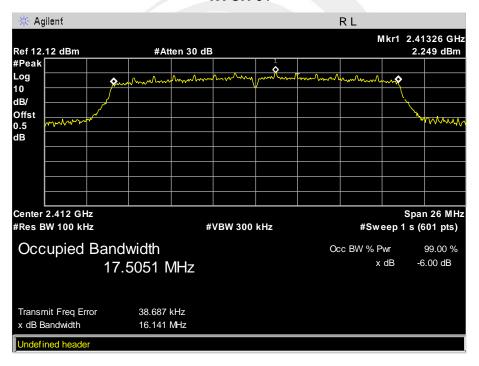




Page 53 of 61 Report No.: STS1507007F04

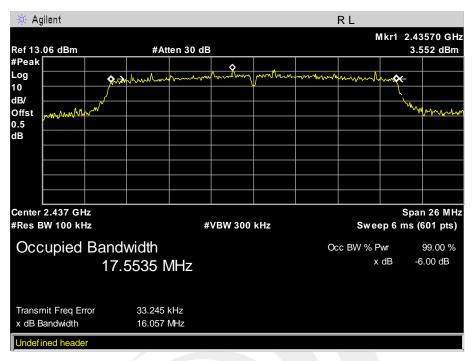
EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

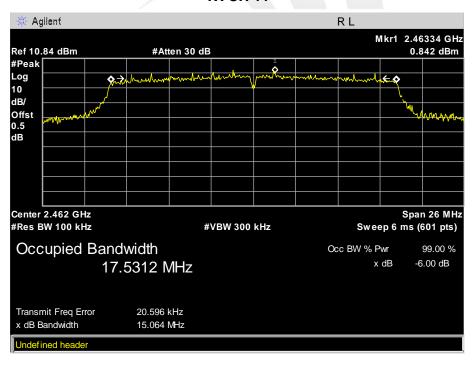
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	16.141	>=500KHz	PASS
2437 MHz	16.057	>=500KHz	PASS
2462 MHz	15.064	>=500KHz	PASS





TX CH 06



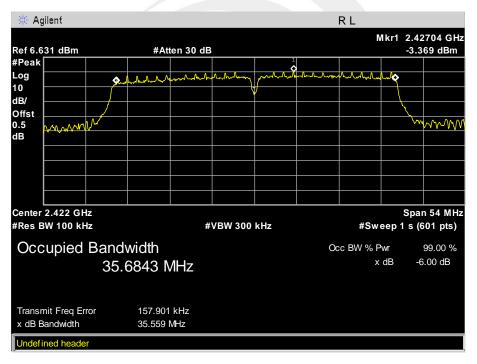




Page 55 of 61 Report No.: STS1507007F04

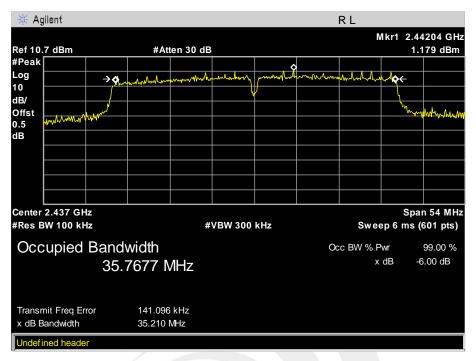
EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

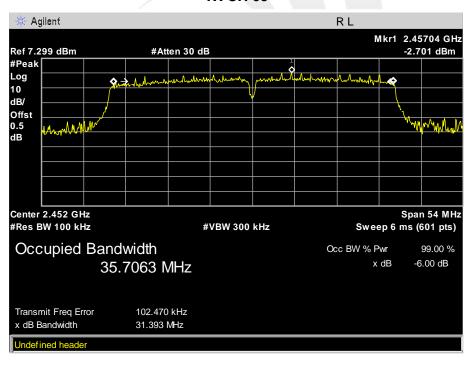
Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2422 MHz	35.559	>=500KHz	PASS
2437 MHz	35.210	>=500KHz	PASS
2452 MHz	31.393	>=500KHz	PASS















7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Section Test Item Limit Frequency Range (MHz)			Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



7.6 TEST RESULTS

EUT:	Smart Phone OWN Style	Model Name :	OWN Style
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

	TX 802.11b Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT	
Channe	(MHz)	(dBm)	dBm	
CH01	2412	19.31	30	
CH06	2437	18.92	30	
CH11	2462	19.12	30	

TX 802.11g Mode						
Test Channe	Frequency	Peak Conducted Output Power	LIMIT			
	(MHz)	(dBm)	dBm			
CH01	2412	17.47	30			
CH06	2437	17.15	30			
CH11	2462	16.89	30			

TX 802.11n20 Mode						
Test Channe	Frequency	Peak Conducted Output Power	LIMIT			
	(MHz)	(dBm)	dBm			
CH01	2412	16.95	30			
CH06	2437	16.15	30			
CH11	2462	16.45	30			

TX 802.11n40 Mode						
Test Channe	Frequency	Peak Conducted Output Power	LIMIT			
	(MHz)	(dBm)	dBm			
CH03	2422	14.68	30			
CH06	2437	14.54	30			
CH09	2452	13.95	30			



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

8.2 EUT ANTENNA

The EUT antenna is permanent attach Antenna. It comply with the standard requirement.

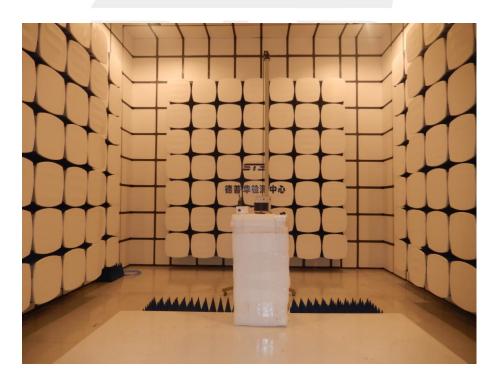




APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos







Conducted Measurement Photos



* * * * END OF THE REPORT * * * *