S T S L A B

FCC TEST REPORT

Report No: STS1412058F03

Issued for

MOVILTELCO TRADE, S.L.

Street: ABTAO, 25-1 Floor A-office MADRID, Spain

Product Name:	Smart Phone
Brand Name:	MTT
Model No.:	A071
Series Model:	A71,A051,A061,A081
FCC ID:	2ACQKTELCO005
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name.....:	MOVILTELCO TRADE, S.L.
Address .....:	Street: ABTAO, 25-1 Floor A-office MADRID, Spain
Manufacture's Name .....:	OTOT Group
Address .....:	The third Industrial Zone, Jiuwei, Yusheng Industrial Park, Xixiang, Baoan District, Shenzhen City, China

Product description

Product name ..... :	Smart Phone
Model and/or type reference .:	MTT
Serial Model ..... :	A71,A051,A061,A081
Standards .....:	FCC Part15.247
Test procedure ..... :	ANSI C63.10-2009

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date (s) of performance of tests .....:	22 Dec. 2014 ~29 Dec. 2014
Date of Issue.....:	30 Dec. 2014
Test Result .....:	**Pass**

Testing Engineer : (Tony Liu)

Technical Manager : (Vita Li)

Authorized Signatory : (Bovey Yang)

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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 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.

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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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 Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone	
Trade Name	MTT	
Model Name	A071	
Serial Model	A71,A051,A061,A081	
Model Difference	Only different in model name	
Product Description	The EUT is a Smart Phone	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	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 3.7V from battery	
Adapter	Power supply and ADP（rating）： Input:100-240V AC,50/60Hz 0.15A Output:5.0V,500mA	
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V capacity :1500mAh	
Hardware version number	M715_MB_V3.0	
Software versioning number	M715KK_mtt_T071E_V1.0_20141211	
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
A	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	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

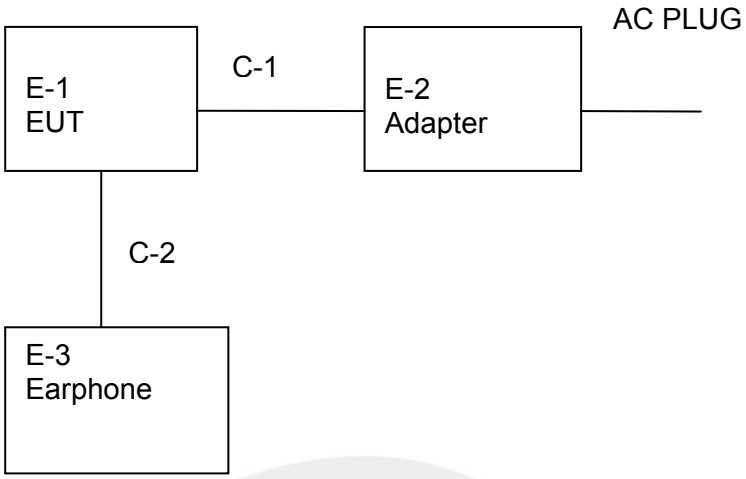
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

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

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	MTT	A071	N/A	EUT
E-2	Adapter	mtt	A071	N/A	
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	YES	1.5m	
C-2	NO	NO	1.2m	

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 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test 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	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	N/A	R01	N/A	2014.10.25	2015.10.24
High frequency cable	N/A	R02	N/A	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Conduction Cable	HUBER+SUHNER	C01	N/A	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.

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
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.

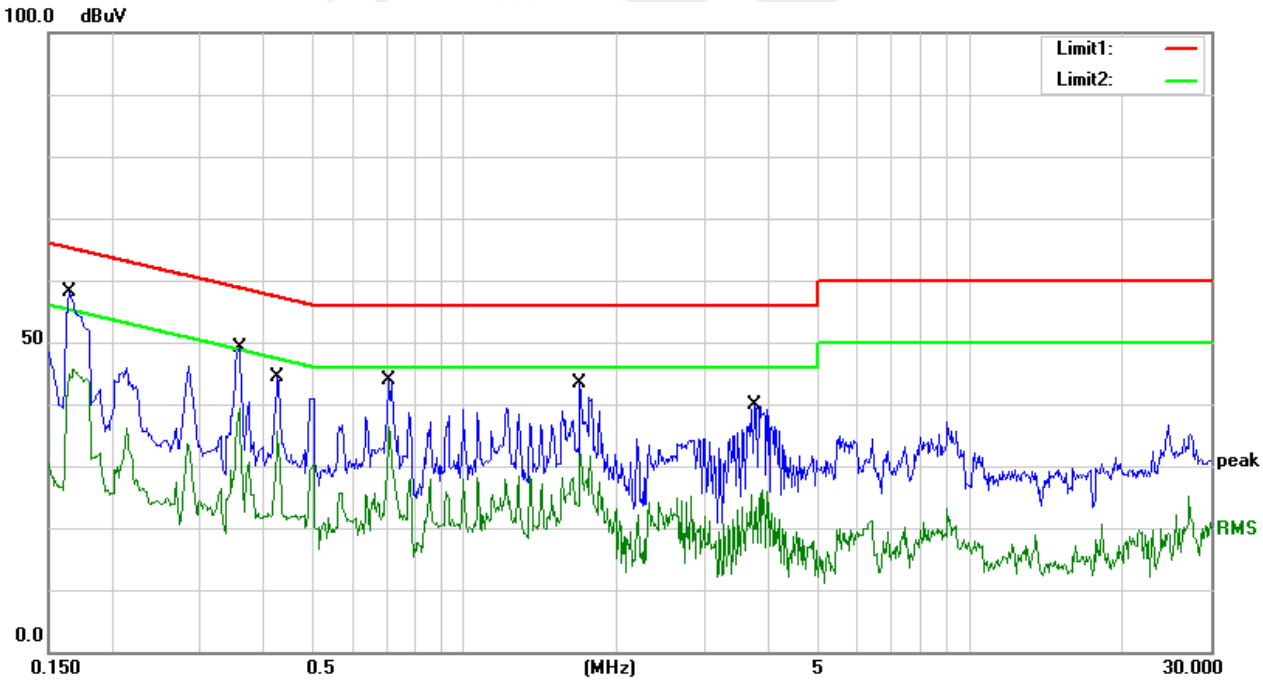
The following table is the setting of the receiver

3.1.2 TEST RESULTS

EUT：	mobile phone	Model Name. ：	A701
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Link Mode

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1650	47.62	10.45	58.07	65.21	-7.14	QP
0.1650	35.13	10.45	45.58	55.21	-9.63	AVG
0.3580	38.64	10.42	49.06	58.77	-9.71	QP
0.3580	28.86	10.42	39.28	48.77	-9.49	AVG
0.4260	33.99	10.41	44.40	57.33	-12.93	QP
0.4260	25.12	10.41	35.53	47.33	-11.80	AVG
0.7060	33.52	10.41	43.93	56.00	-12.07	QP
0.7060	25.99	10.41	36.40	46.00	-9.60	AVG
1.6980	32.99	10.42	43.41	56.00	-12.59	QP
1.6980	21.57	10.42	31.99	46.00	-14.01	AVG
3.7540	29.18	10.63	39.81	56.00	-16.19	QP
3.7540	15.53	10.63	26.16	46.00	-19.84	AVG

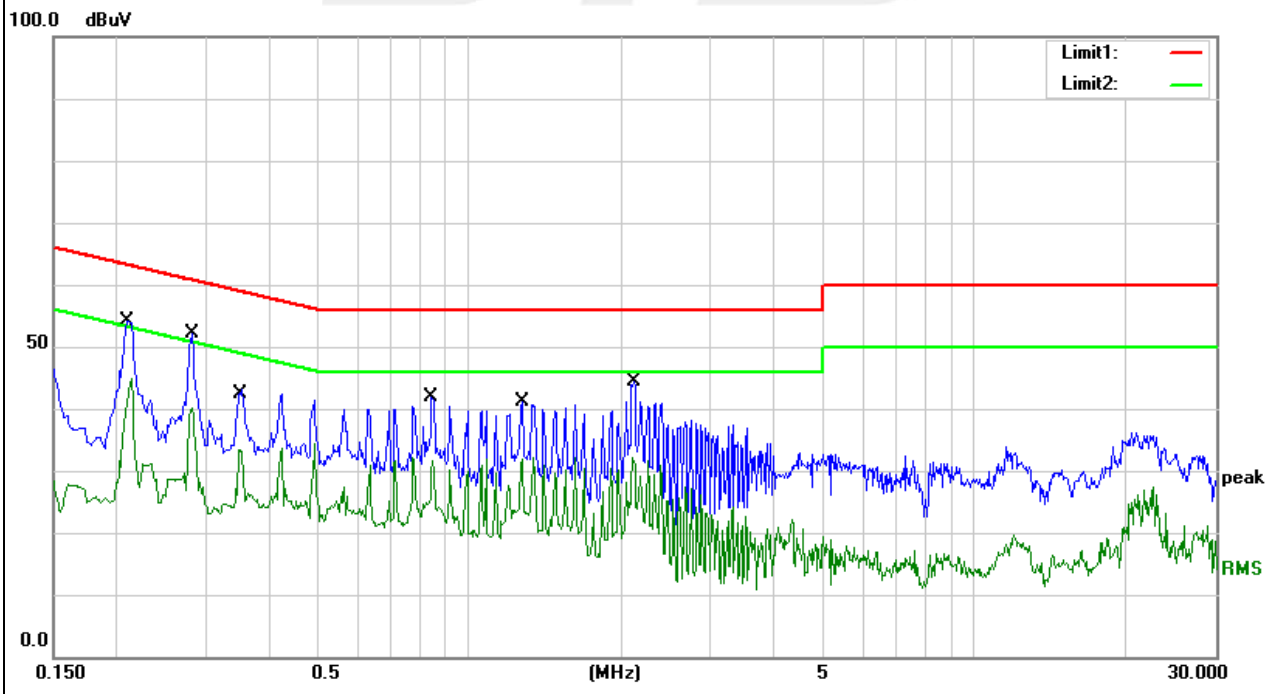
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	mobile phone	Model Name. ：	G5006
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Link Mode

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.2100	43.75	10.43	54.18	63.21	-9.03	QP
0.2100	34.39	10.43	44.82	53.21	-8.39	AVG
0.2820	41.62	10.42	52.04	60.76	-8.72	QP
0.2820	29.76	10.42	40.18	50.76	-10.58	AVG
0.3500	32.62	10.42	43.04	58.96	-15.92	QP
0.3500	23.08	10.42	33.50	48.96	-15.46	AVG
0.8420	31.50	10.42	41.92	56.00	-14.08	QP
0.8420	21.21	10.42	31.63	46.00	-14.37	AVG
1.2700	30.61	10.45	41.06	56.00	-14.94	QP
1.2700	21.44	10.45	31.89	46.00	-14.11	AVG
2.1060	33.82	10.44	44.26	56.00	-11.74	QP
2.1060	21.69	10.44	32.13	46.00	-13.87	AVG

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	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	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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

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

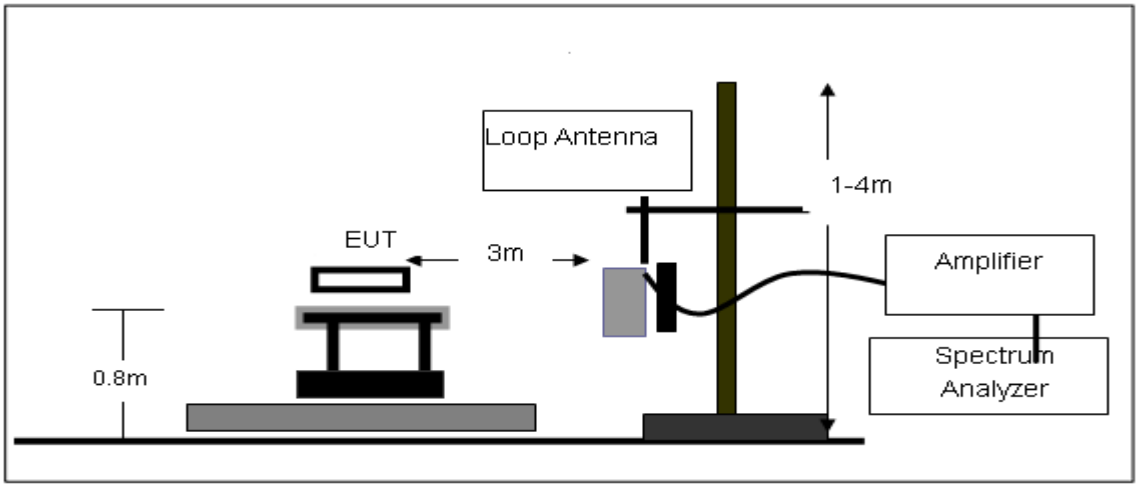
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 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; 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:

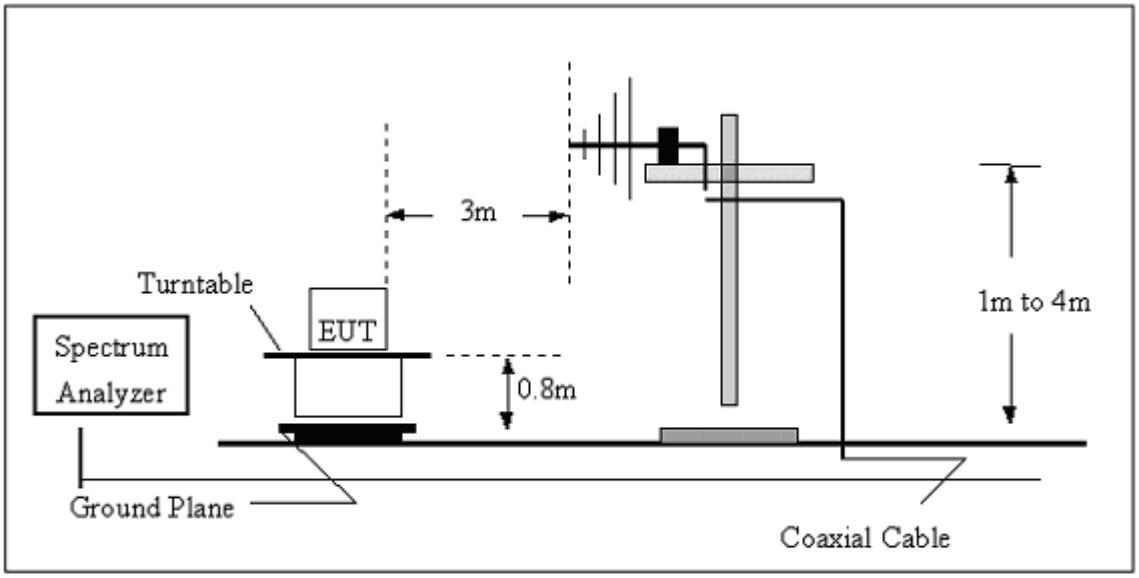
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

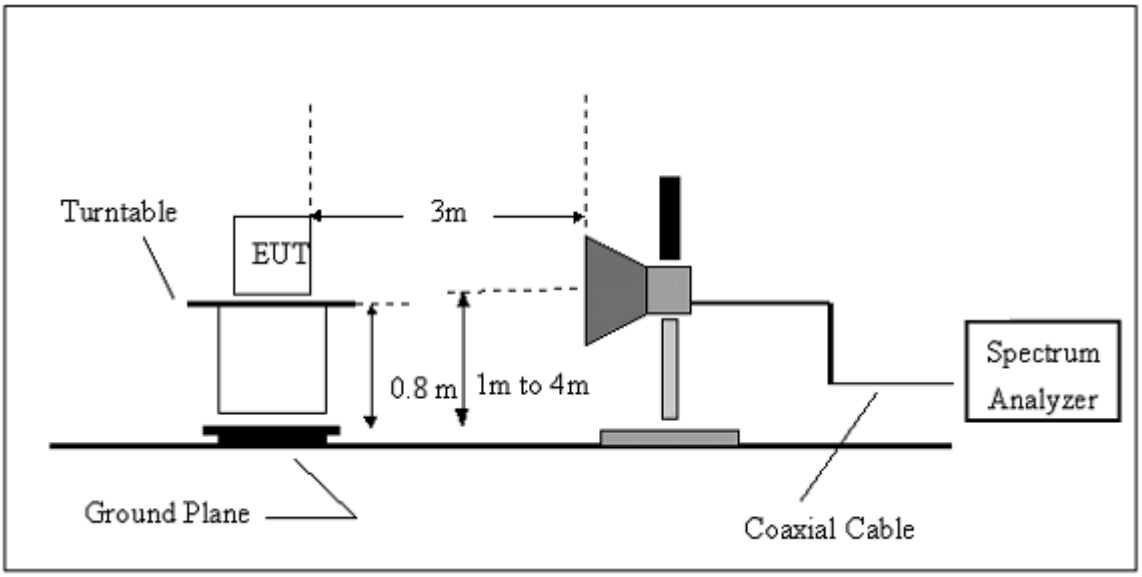
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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	Model Name. ：	A071
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	Polarization :	--

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

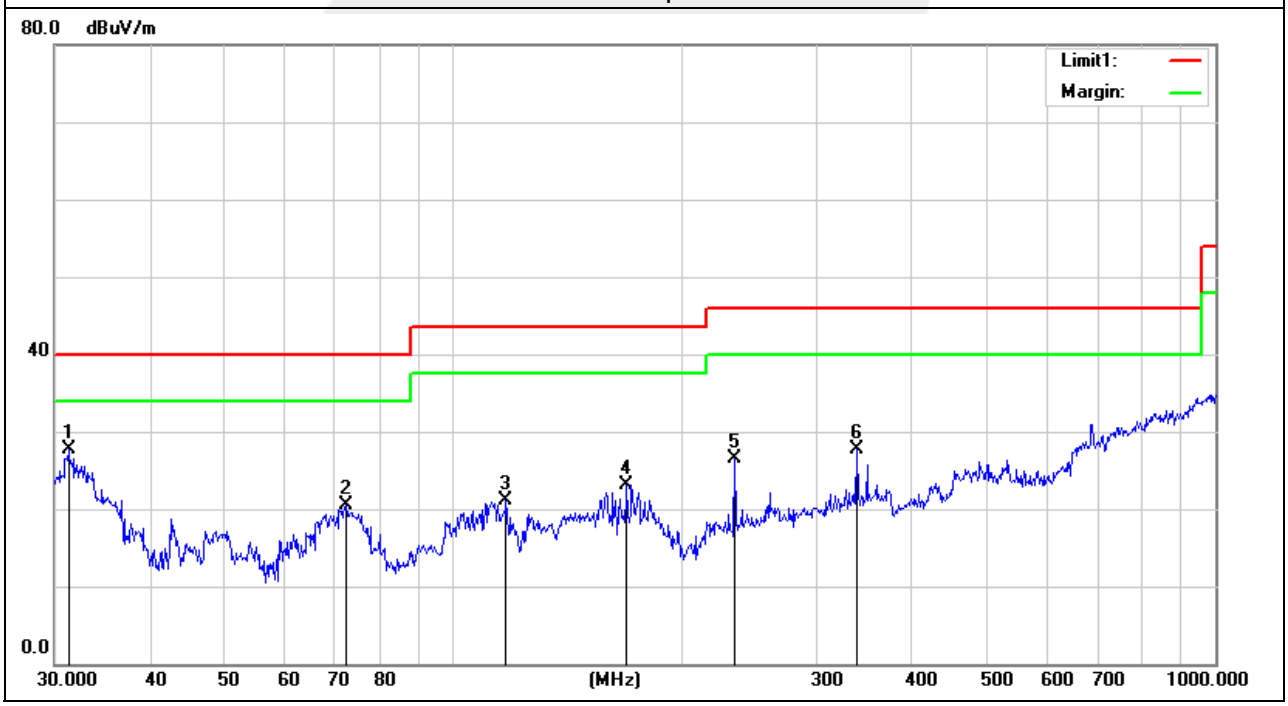
NOTE:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

30MHz - 1000MHz

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	Polarization :	Horizontal

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
31.2893	9.50	18.29	27.79	40.00	-12.21	QP
72.3375	13.66	6.87	20.53	40.00	-19.47	QP
117.3602	8.45	12.56	21.01	43.50	-22.49	QP
169.0054	12.11	10.95	23.06	43.50	-20.44	QP
234.1682	15.10	11.48	26.58	46.00	-19.42	QP
338.4001	10.94	16.82	27.76	46.00	-18.24	QP

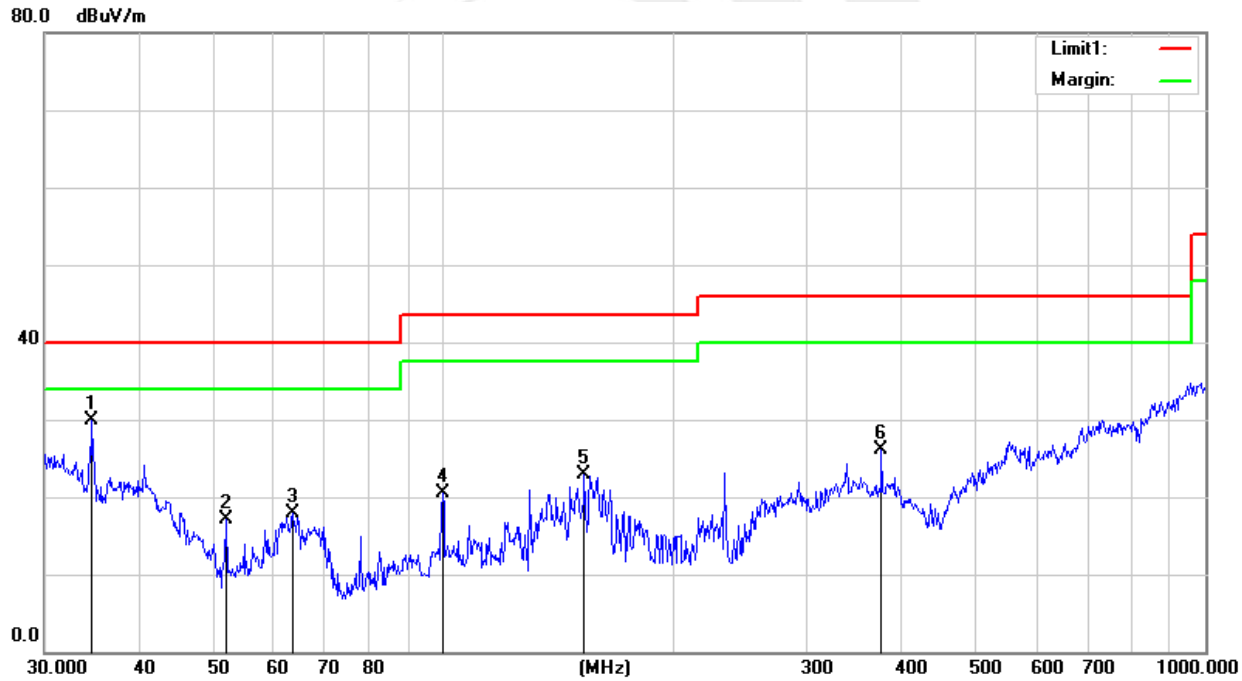
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	Polarization :	Vertical

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
34.6385	13.34	16.59	29.93	40.00	-10.07	QP
51.8430	9.52	7.57	17.09	40.00	-22.91	QP
63.5356	12.05	5.80	17.85	40.00	-22.15	QP
99.8777	9.51	10.90	20.41	43.50	-23.09	QP
153.2004	10.60	12.23	22.83	43.50	-20.67	QP
375.9384	8.39	17.63	26.02	46.00	-19.98	QP

Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Above 1000MHz

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.088	46.93	10.44	57.37	74	-16.63	peak
4824.088	31.36	10.44	41.8	54	-12.2	AVG
7236.133	43.28	12.39	55.67	74	-18.33	peak
7236.133	33.73	12.39	46.12	54	-7.88	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11b Mode)/241	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.091	49.13	10.39	59.52	74	-14.48	peak
4824.096	33.32	10.39	43.71	54	-10.29	AVG
7236.052	48.25	12.68	60.93	74	-13.07	peak
7236.142	30.14	12.68	42.82	54	-11.18	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.137	49.43	10.39	59.82	74	-14.18	peak
4874.059	33.43	10.39	43.82	54	-10.18	AVG
7311.118	48.21	12.68	60.89	74	-13.11	peak
7311.059	30.82	12.68	43.5	54	-10.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.089	49.43	10.39	59.82	74	-14.18	peak
4874.104	33.43	10.39	43.82	54	-10.18	AVG
7311.095	48.21	12.68	60.89	74	-13.11	peak
7311.097	30.82	12.68	43.5	54	-10.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.063	49.43	10.39	59.82	74	-14.18	peak
4924.097	33.43	10.39	43.82	54	-10.18	AVG
7386.098	48.21	12.68	60.89	74	-13.11	peak
7386.095	30.82	12.68	43.5	54	-10.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.090	49.43	10.39	59.82	74	-14.18	peak
4924.047	33.43	10.39	43.82	54	-10.18	AVG
7386.120	48.21	12.68	60.89	74	-13.11	peak
7386.094	30.82	12.68	43.5	54	-10.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.111	46.21	10.44	56.65	74	-17.35	peak
4824.107	36.51	10.44	46.95	54	-7.05	AVG
7236.032	42.35	12.39	54.74	74	-19.26	peak
7236.089	28.21	12.39	40.6	54	-13.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.053	46.21	10.44	56.65	74	-17.35	peak
4824.135	36.51	10.44	46.95	54	-7.05	AVG
7236.096	42.35	12.39	54.74	74	-19.26	peak
7236.081	28.21	12.39	40.6	54	-13.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.058	45.21	10.4	55.61	74	-18.39	peak
4874.129	26.56	10.4	36.96	54	-17.04	AVG
7311.163	44.75	12.75	57.5	74	-16.5	peak
7311.134	25.78	12.75	38.53	54	-15.47	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.115	48.19	10.4	58.59	74	-15.41	peak
4874.077	35.21	10.4	45.61	54	-8.39	AVG
7311.073	48.26	12.75	61.01	74	-12.99	peak
7311.075	33.43	12.75	46.18	54	-7.82	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.128	49.74	10.39	60.13	74	-13.87	peak
4924.086	33.43	10.39	43.82	54	-10.18	AVG
7386.140	48.22	12.68	60.9	74	-13.1	peak
7386.066	30.82	12.68	43.5	54	-10.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.142	46.57	10.39	56.96	74	-17.04	peak
4924.048	34.51	10.39	44.9	54	-9.1	AVG
7386.112	46.44	12.68	59.12	74	-14.88	peak
7386.129	33.91	12.68	46.59	54	-7.41	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.138	46.94	10.44	57.38	74	-16.62	peak
4824.048	36.51	10.44	46.95	54	-7.05	AVG
7236.074	42.35	12.39	54.74	74	-19.26	peak
7236.109	28.28	12.39	40.67	54	-13.33	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.077	46.84	10.44	57.28	74	-16.72	peak
4824.059	37.21	10.44	47.65	54	-6.35	AVG
7236.093	51.55	12.39	63.94	74	-10.06	peak
7236.052	31.12	12.39	43.51	54	-10.49	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.080	51.32	10.4	61.72	74	-12.28	peak
4874.116	32.35	10.4	42.75	54	-11.25	AVG
7311.086	48.54	12.75	61.29	74	-12.71	peak
7311.046	27.43	12.75	40.18	54	-13.82	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.116	48.23	10.4	58.63	74	-15.37	peak
4874.148	32.59	10.4	42.99	54	-11.01	AVG
7311.073	47.45	12.75	60.2	74	-13.8	peak
7311.144	26.62	12.75	39.37	54	-14.63	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.099	50.04	10.39	60.43	74	-13.57	peak
4924.046	35.15	10.39	45.54	54	-8.46	AVG
7386.103	43.82	12.68	56.5	74	-17.5	peak
7386.146	31.15	12.68	43.83	54	-10.17	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.081	51.28	10.39	61.67	74	-12.33	peak
4924.147	35.69	10.39	46.08	54	-7.92	AVG
7386.095	42.33	12.68	55.01	74	-18.99	peak
7386.088	28.54	12.68	41.22	54	-12.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844.069	47.87	10.5	58.37	74	-15.63	peak
4844.090	31.63	10.5	42.13	54	-11.87	AVG
7266.257	48.43	12.5	60.93	74	-13.07	peak
7266.276	31.23	12.5	43.73	54	-10.27	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844.276	47.23	10.5	57.73	74	-16.27	peak
4844.296	30.64	10.5	41.14	54	-12.86	AVG
7266.239	48.83	12.5	61.33	74	-12.67	peak
7266.180	29.54	12.5	42.04	54	-11.96	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.147	48.78	10.4	59.18	74	-14.82	peak
4874.203	33.63	10.4	44.03	54	-9.97	AVG
7311.120	47.25	12.75	60	74	-14	peak
7311.090	32.54	12.75	45.29	54	-8.71	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.503	47.59	10.4	57.99	74	-16.01	peak
4874.469	34.56	10.4	44.96	54	-9.04	AVG
7311.564	46.73	12.75	59.48	74	-14.52	peak
7311.618	35.32	12.75	48.07	54	-5.93	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904.324	49.87	10.29	60.16	74	-13.84	peak
4904.284	35.89	10.29	46.18	54	-7.82	AVG
7356.157	48.49	12.79	61.28	74	-12.72	peak
7356.183	31.56	12.79	44.35	54	-9.65	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904.094	50.34	10.29	60.63	74	-13.37	peak
4904.103	34.56	10.29	44.85	54	-9.15	AVG
7356.400	48.62	12.79	61.41	74	-12.59	peak
7356.411	32.21	12.79	45	54	-9	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

3.2.6 TEST RESULTS (BAND EDGE)

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2399.900	79.25	-13	66.25	74	-7.75	peak
2399.900	61.45	-13	48.45	54	-5.54	AVG
2400.000	82.32	-12.99	69.33	74	-4.41	peak
2400.000	61.29	-12.99	48.3	54	-5.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2399.900	81.43	-13	68.43	74	-5.57	peak
2399.900	61.52	-13	48.52	54	-5.48	AVG
2400.000	78.45	-12.99	65.46	74	-8.54	peak
2400.000	59.43	-12.99	46.44	54	-7.56	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	78.65	-12.78	65.87	74	-8.13	peak
2483.500	60.32	-12.78	47.54	54	-6.46	AVG
2483.600	79.59	-12.77	66.82	74	-7.18	peak
2483.600	60.28	-12.78	47.5	54	-6.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.45	-12.78	64.67	74	-9.33	peak
2483.500	60.36	-12.78	47.58	54	-6.42	AVG
2483.600	78.54	-12.77	65.77	74	-8.23	peak
2483.600	59.48	-12.77	46.71	54	-7.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.25	-13	63.25	74	-10.75	peak
2399.900	59.43	-13	46.43	54	-7.57	AVG
2400.000	78.37	-12.99	65.38	74	-8.62	peak
2400.000	58.47	-12.99	45.48	54	-8.52	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11gMode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.49	-13	64.49	74	-9.51	peak
2399.900	60.21	-13	47.21	54	-6.79	AVG
2400.000	78.94	-12.99	65.95	74	-8.05	peak
2400.000	62.28	-12.99	49.29	54	-4.71	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	77.49	-12.78	64.71	74	-9.29	peak
2483.500	63.25	-12.78	50.47	54	-3.53	AVG
2483.600	76.46	-12.77	63.69	74	-10.31	peak
2483.600	61.66	-12.77	48.89	54	-5.11	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	76.54	-12.78	63.76	74	-10.24	peak
2483.500	60.43	-12.78	47.65	54	-6.35	AVG
2483.600	75.78	-12.77	63.01	74	-10.99	peak
2483.600	61.34	-12.77	48.57	54	-5.43	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.13	-13	63.13	74	-10.87	peak
2399.900	58.26	-13	45.26	54	-8.74	AVG
2400.000	78.27	-12.99	65.28	74	-8.72	peak
2400.000	58.63	-12.99	45.64	54	-8.36	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20M	Polarization :	Vertical

Frequency (MHz)	Meter (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.12	-13	64.12	74	-9.88	peak
2399.900	58.34	-13	45.34	54	-8.66	AVG
2400.000	76.46	-12.99	63.47	74	-10.53	peak
2400.000	59.45	-12.99	46.46	54	-7.54	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	77.54	-12.78	64.76	74	-9.24	peak
2483.500	56.75	-12.78	43.97	54	-10.03	AVG
2483.600	75.28	-12.77	62.51	74	-11.49	peak
2483.600	57.35	-12.77	44.58	54	-9.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	73.46	-12.78	60.45	74	-13.55	peak
2483.500	59.54	-12.78	46.84	54	-7.16	AVG
2483.600	73.67	-12.78	60.45	74	-13.55	peak
2483.600	59.54	-12.78	46.84	54	-7.16	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2399.900	77.23	-13	64.23	74	-9.77	peak
2399.900	58.21	-13	45.21	54	-8.79	AVG
2400.000	77.85	-12.99	64.86	74	-9.14	peak
2400.000	59.59	-12.99	46.6	54	-7.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2399.900	80.65	-13	67.65	74	-6.35	peak
2399.900	55.57	-13	42.57	54	-11.43	AVG
2400.000	78.32	-12.99	65.33	74	-8.67	peak
2400.000	55.46	-12.99	42.47	54	-11.53	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	76.63	-12.78	63.85	74	-10.15	peak
2483.500	59.14	-12.78	46.36	54	-7.64	AVG
2483.600	77.23	-12.77	64.46	74	-9.54	peak
2483.600	61.18	-12.77	48.41	54	-5.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Smart Phone	Model Name ：	A071
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	77.34	-12.78	64.56	74	-9.44	peak
2483.500	60.48	-12.78	47.7	54	-6.3	AVG
2483.600	78.26	-12.78	65.48	74	-8.52	peak
2483.600	59.33	-12.78	46.55	54	-7.45	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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

.

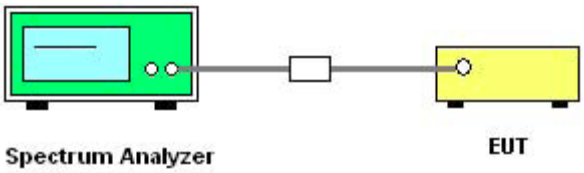
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz 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 50Ohm; 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.

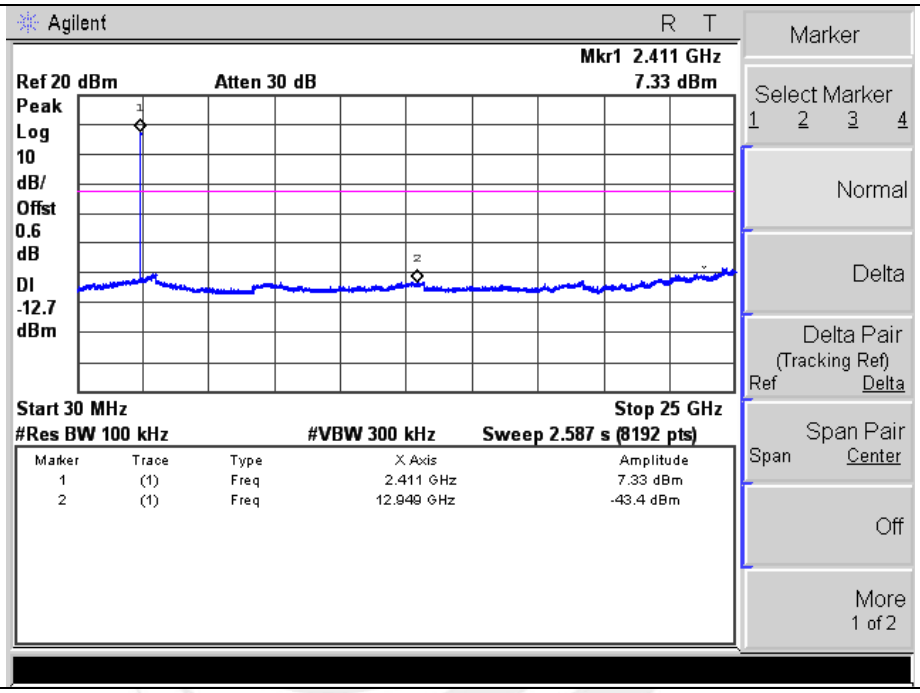
4.5 EUT OPERATION CONDITIONS

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.

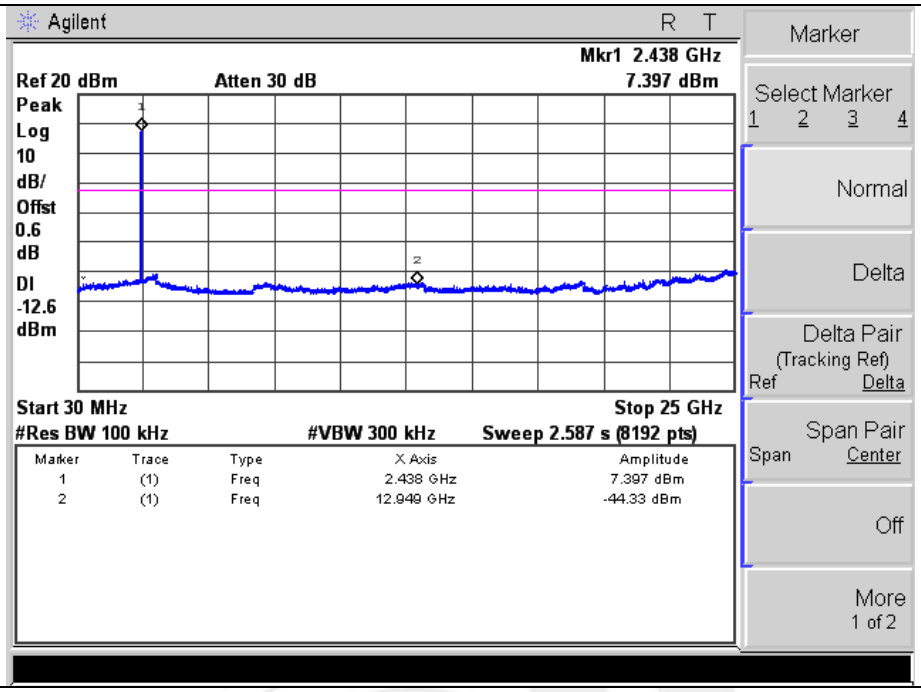
4.6 TEST RESULTS

EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

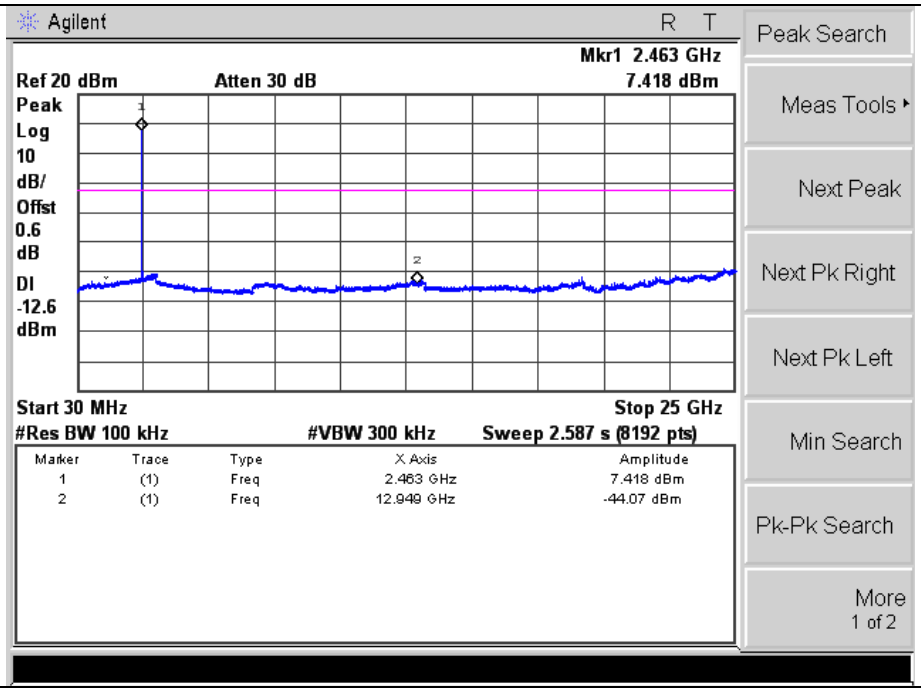
CH 01



CH 06

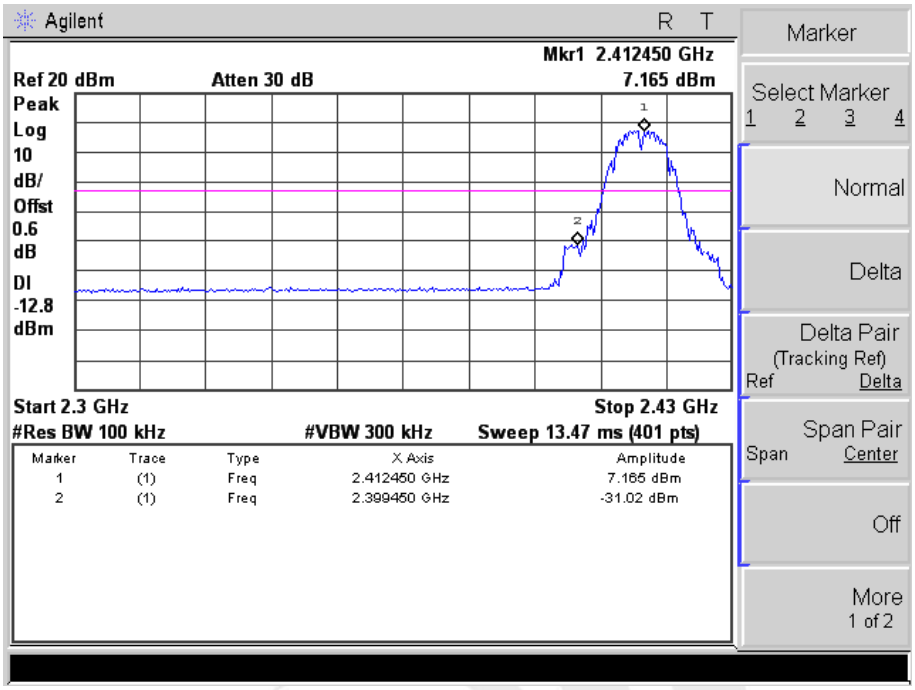

Agilent
R T
Mkr1 2.438 GHz
Ref 20 dBm
Atten 30 dB
7.397 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-12.6
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.438 GHz 7.397 dBm
2 (1) Freq 12.949 GHz -44.33 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

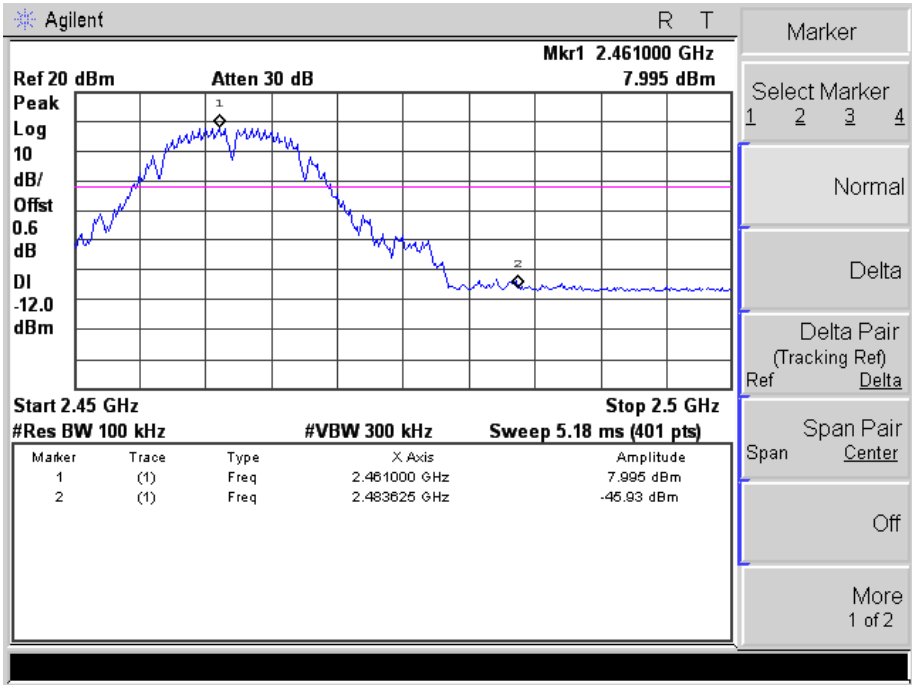

Agilent
R T
Mkr1 2.463 GHz
Ref 20 dBm
Atten 30 dB
7.418 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-12.6
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.463 GHz 7.418 dBm
2 (1) Freq 12.949 GHz -44.07 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

Band edge

CH 01

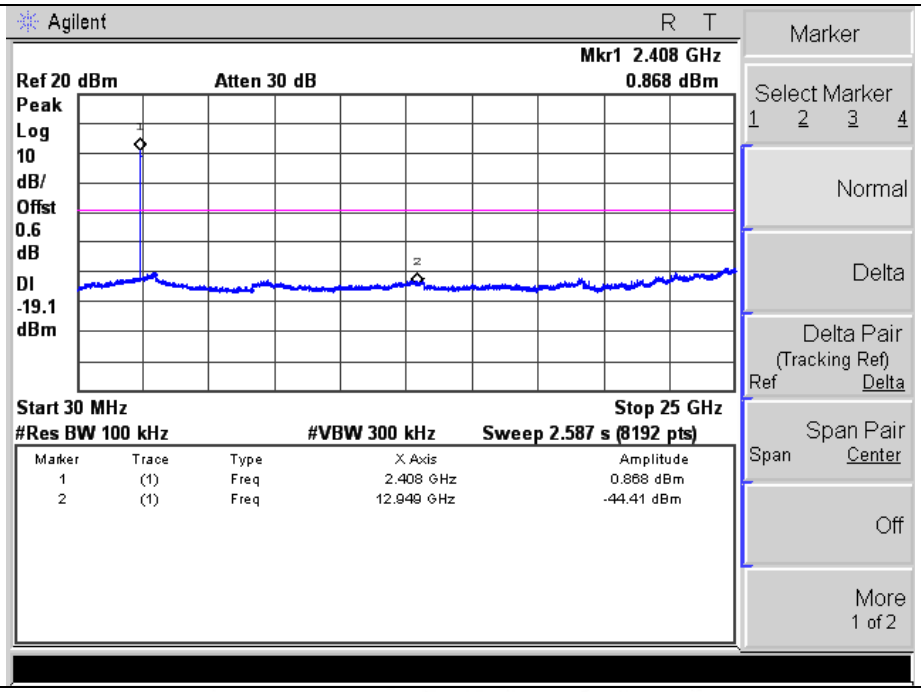


CH 11

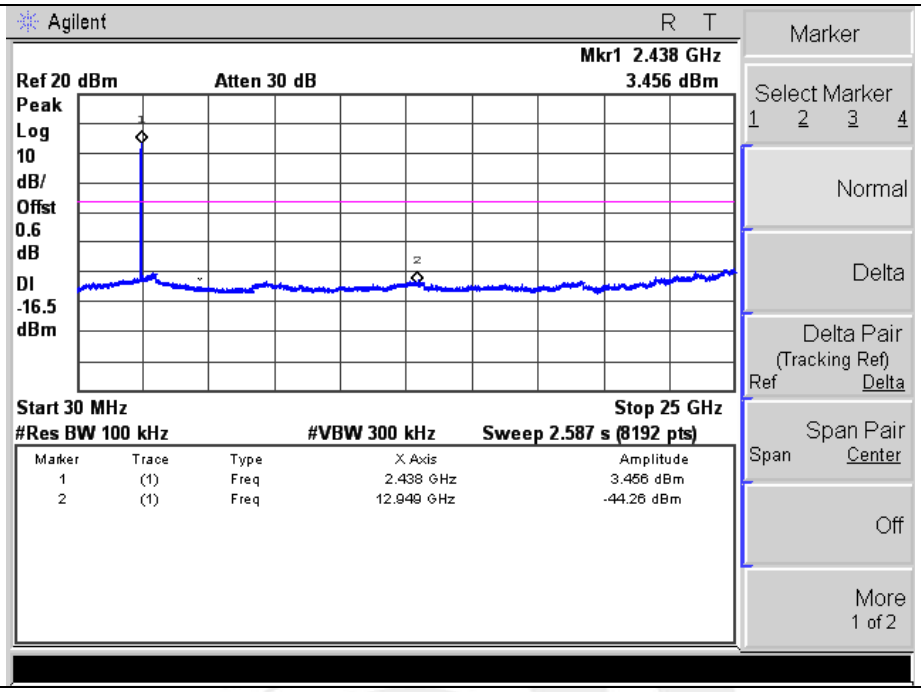


EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

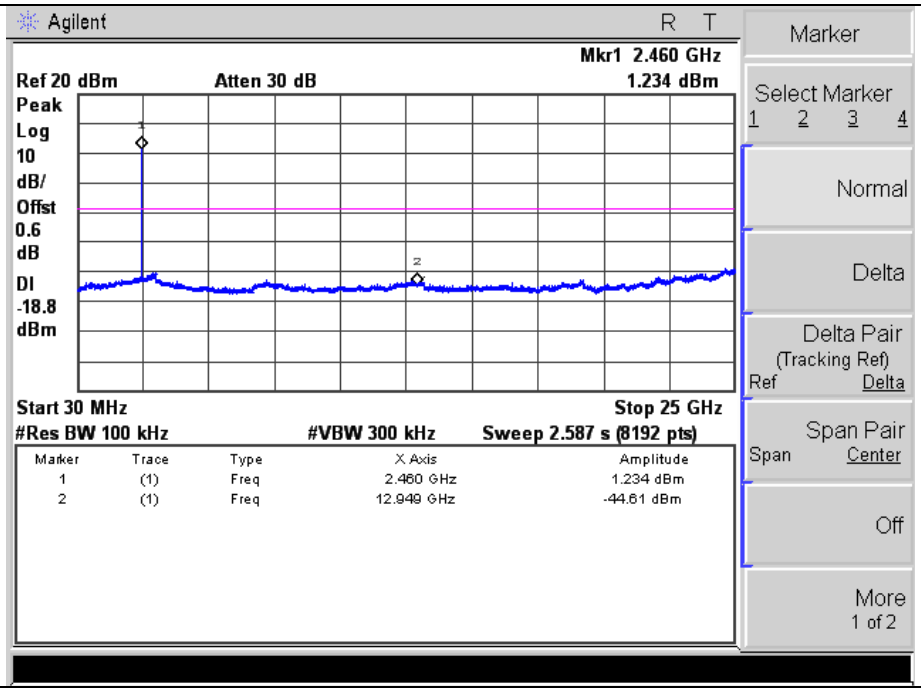
CH 01



CH 06

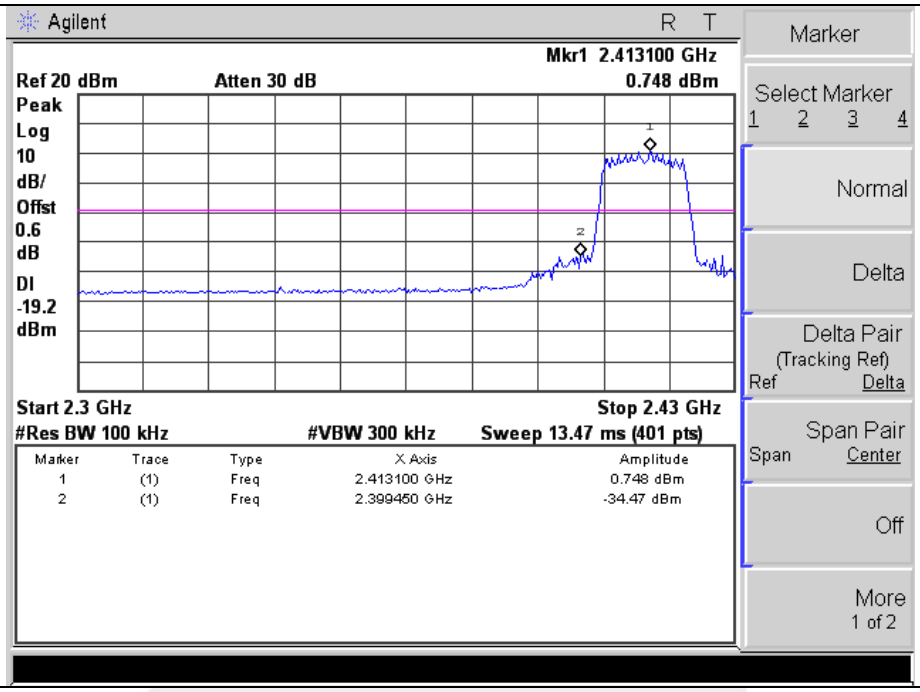

Agilent
R T
Mkr1 2.438 GHz
Ref 20 dBm
Atten 30 dB
3.456 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-16.5
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.438 GHz 3.456 dBm
2 (1) Freq 12.949 GHz -44.26 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

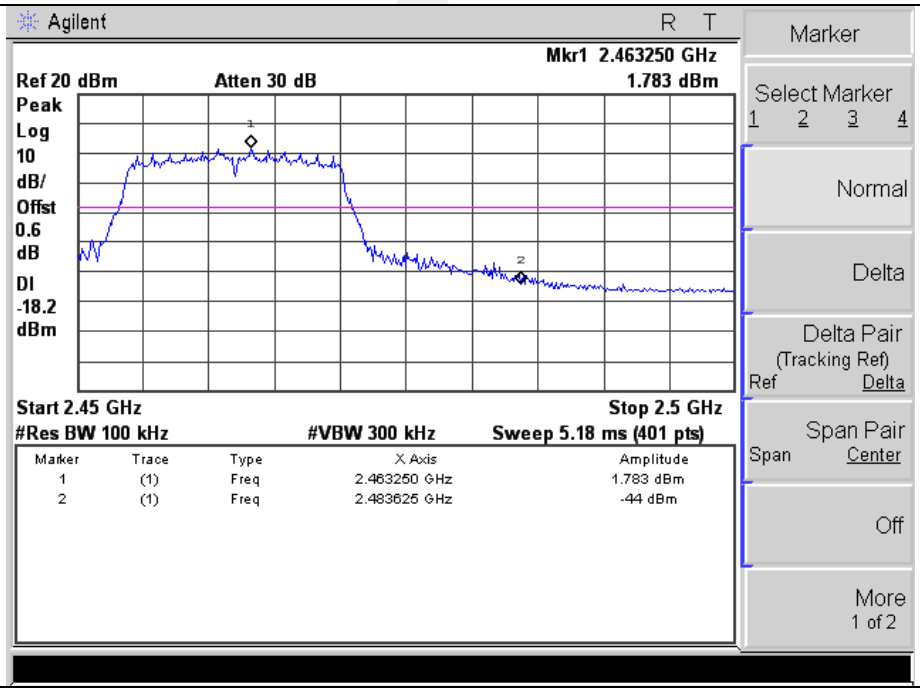

Agilent
R T
Mkr1 2.460 GHz
Ref 20 dBm
Atten 30 dB
1.234 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-18.8
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.460 GHz 1.234 dBm
2 (1) Freq 12.949 GHz -44.61 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01

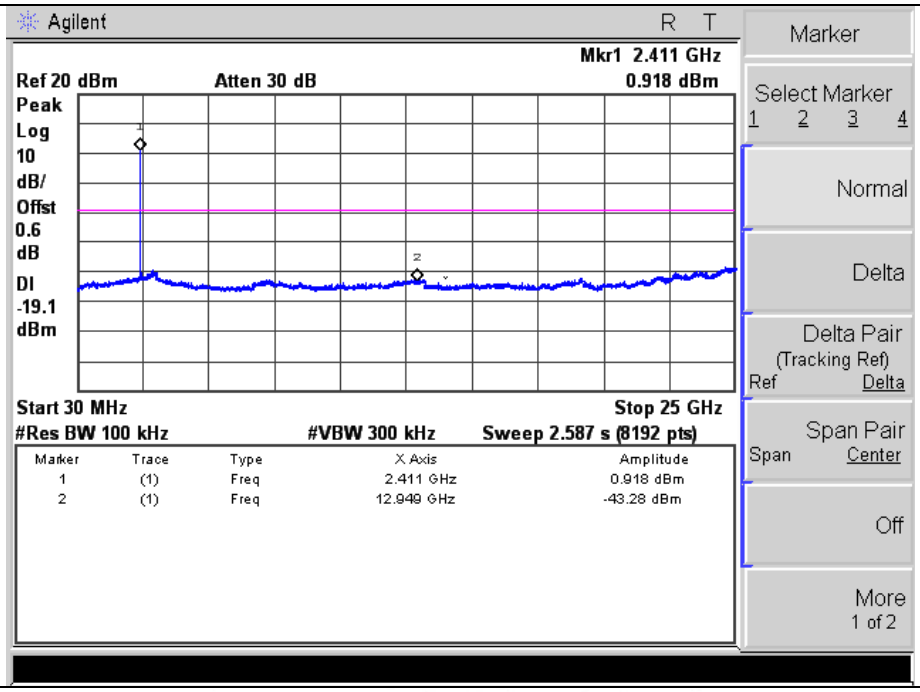


CH11

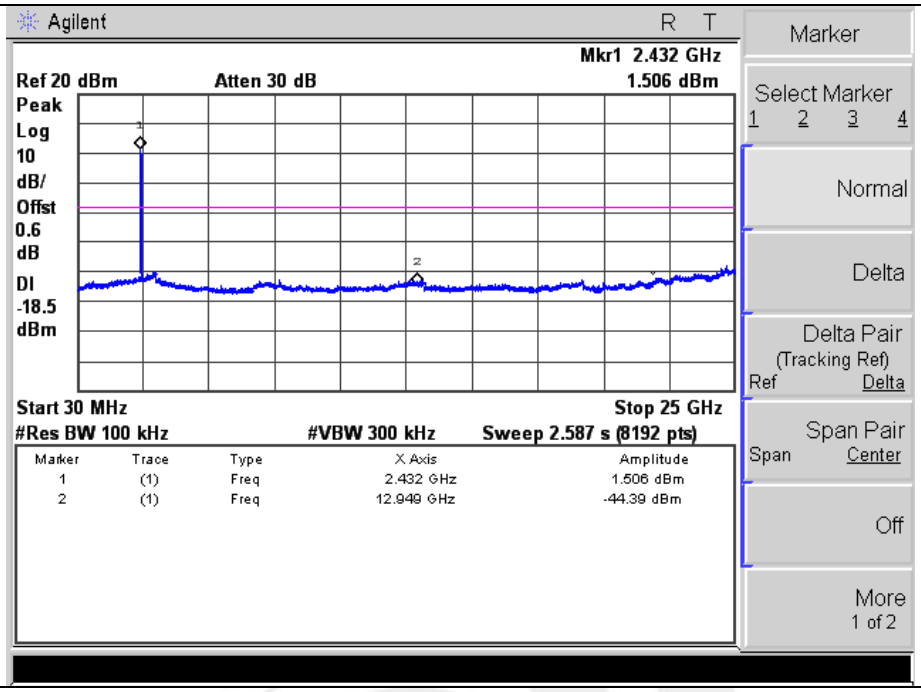


EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

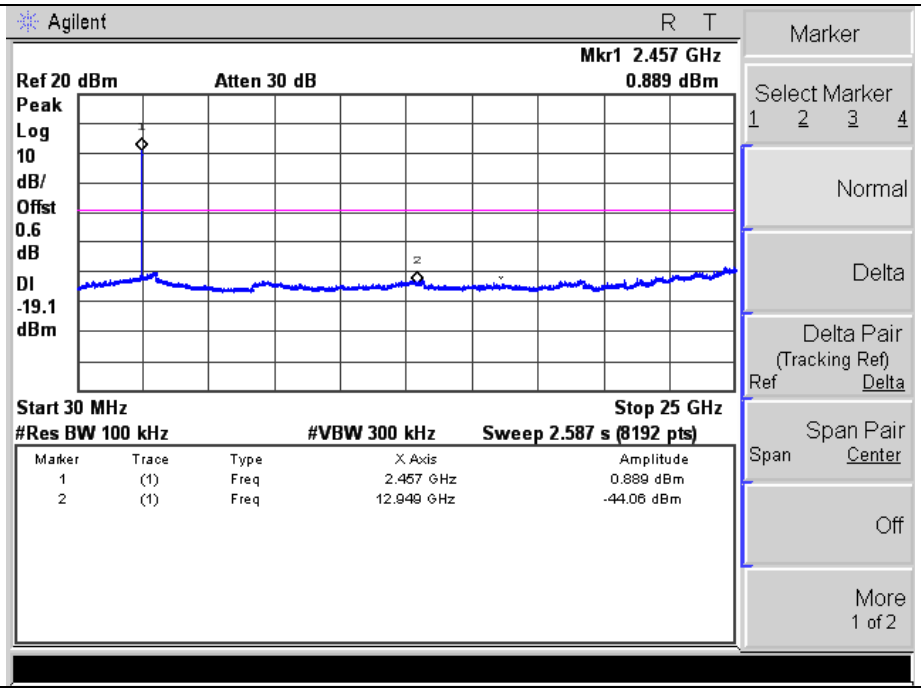
CH 01



CH 06

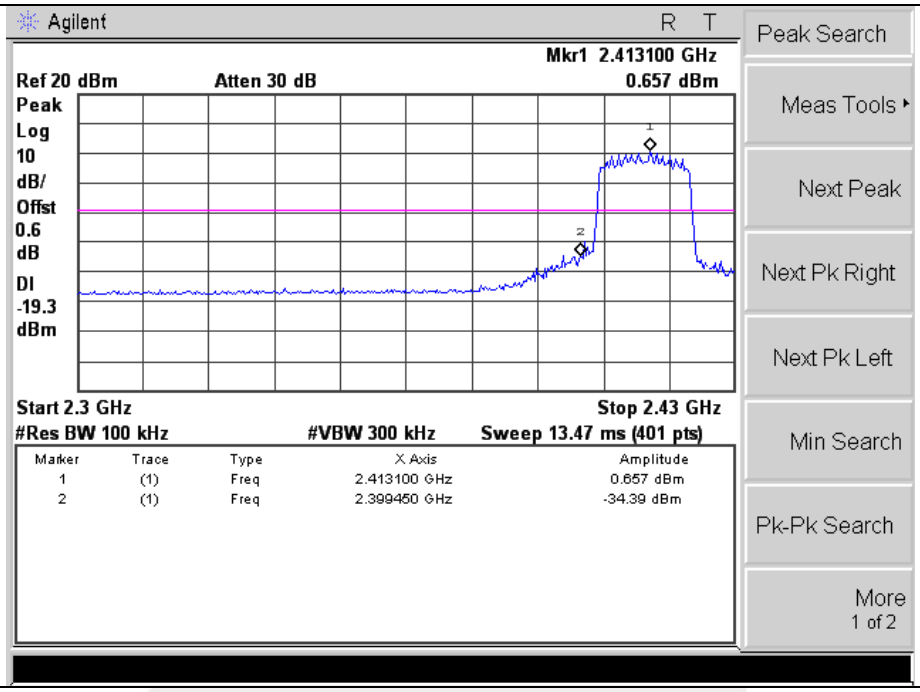

Agilent
R T
Mkr1 2.432 GHz
Ref 20 dBm
Atten 30 dB
1.506 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-18.5
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.432 GHz 1.506 dBm
2 (1) Freq 12.949 GHz -44.39 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

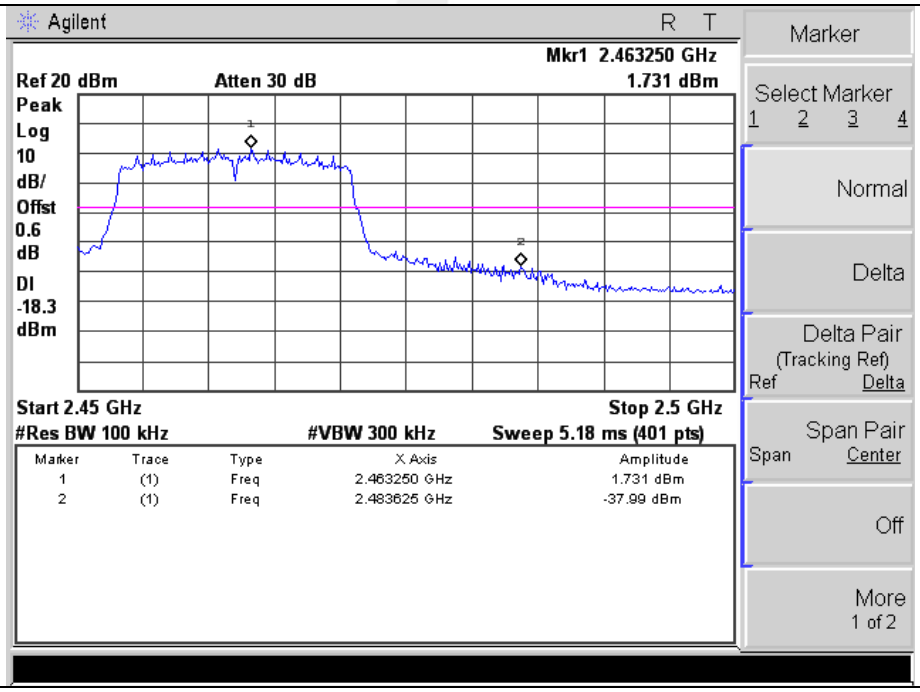

Agilent
R T
Mkr1 2.457 GHz
Ref 20 dBm
Atten 30 dB
0.889 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-19.1
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.457 GHz 0.889 dBm
2 (1) Freq 12.949 GHz -44.06 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01

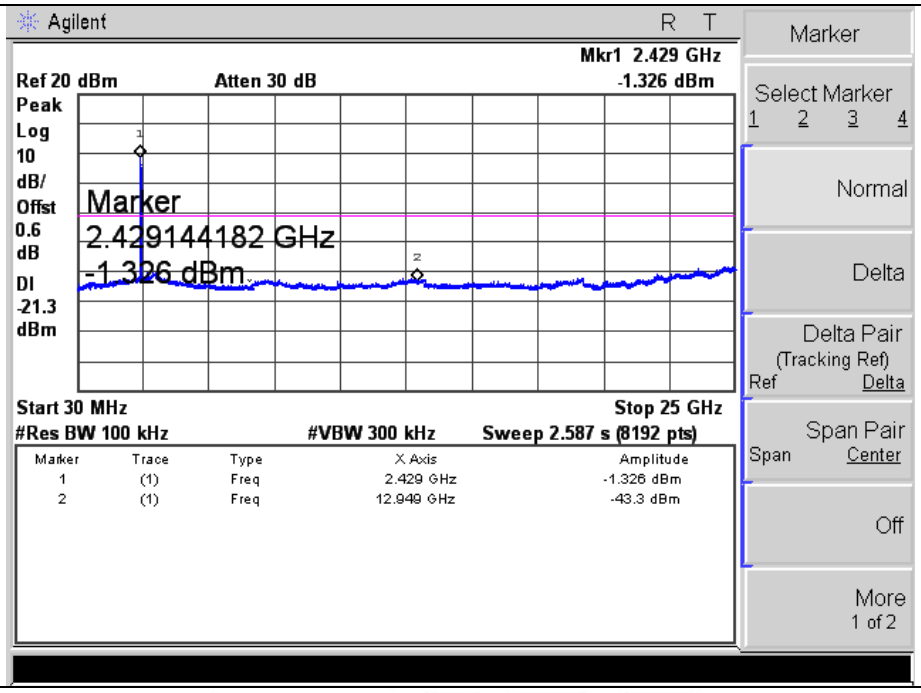


CH 11

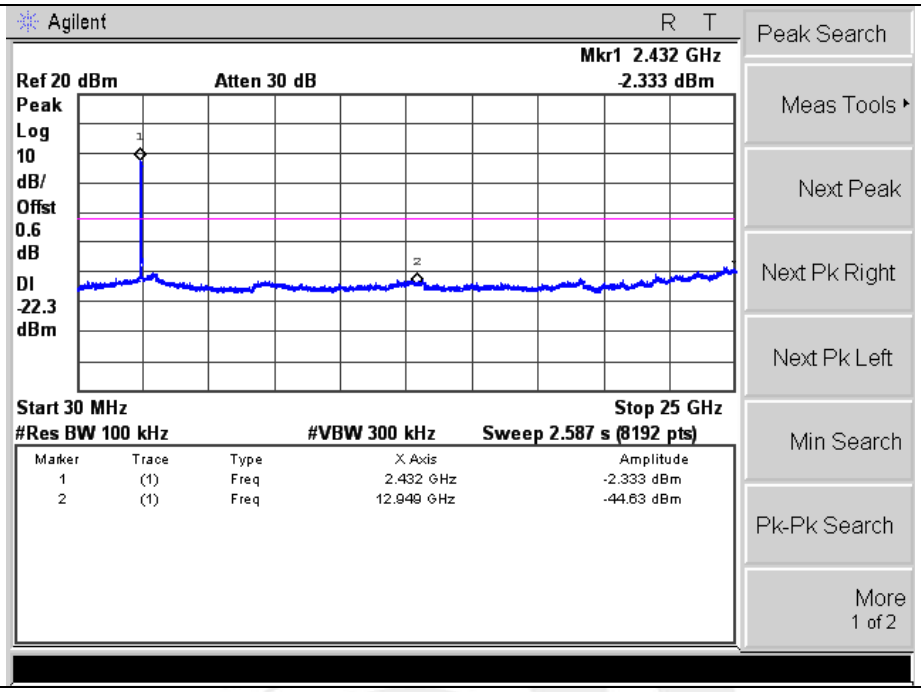


EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

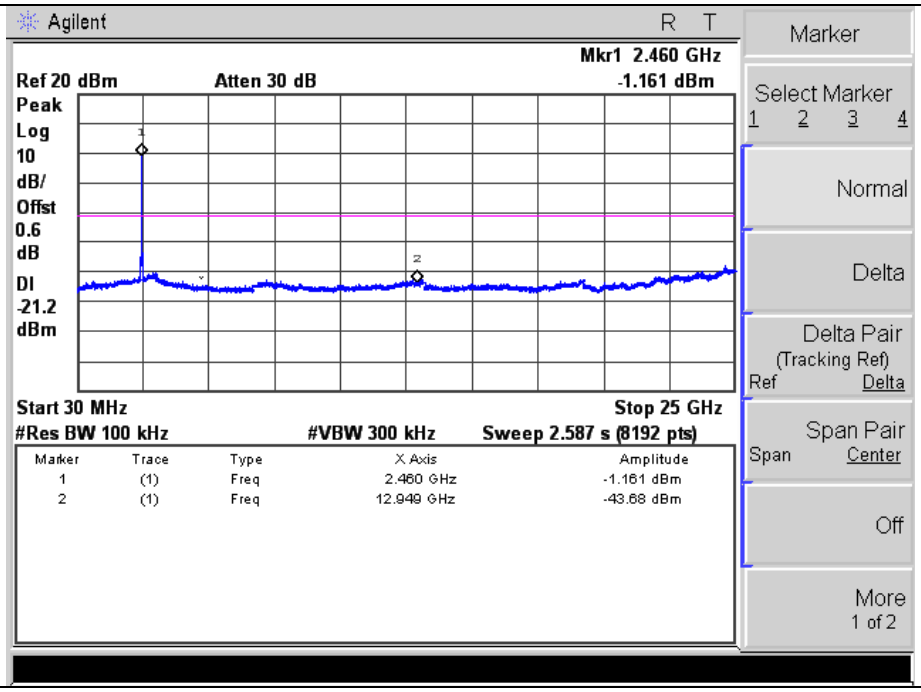
CH 03



CH06

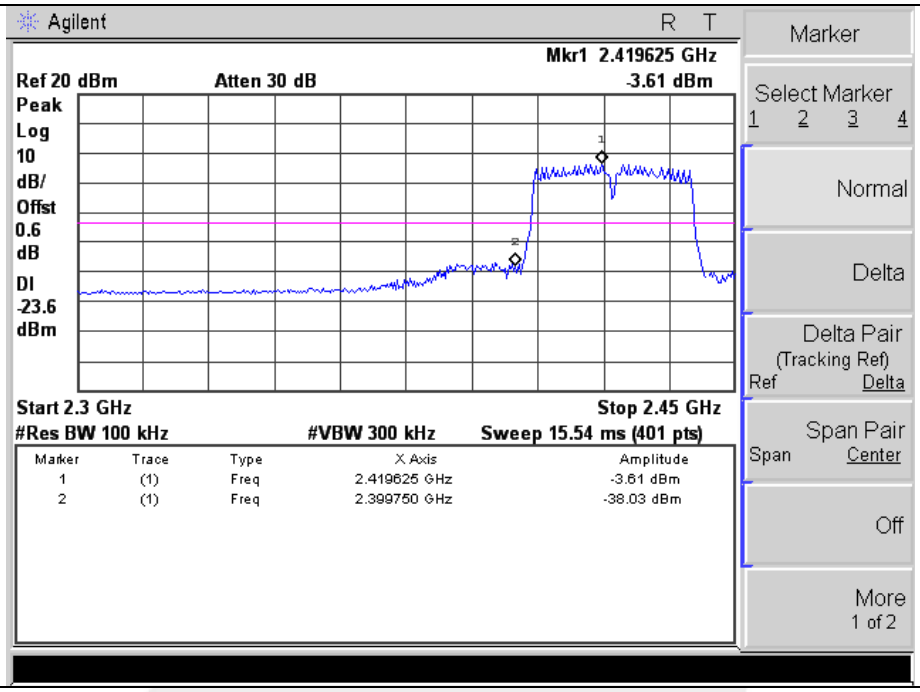

Agilent
R T
Mkr1 2.432 GHz
Ref 20 dBm
Atten 30 dB
-2.333 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-22.3
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.432 GHz -2.333 dBm
2 (1) Freq 12.949 GHz -44.63 dBm
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

CH09

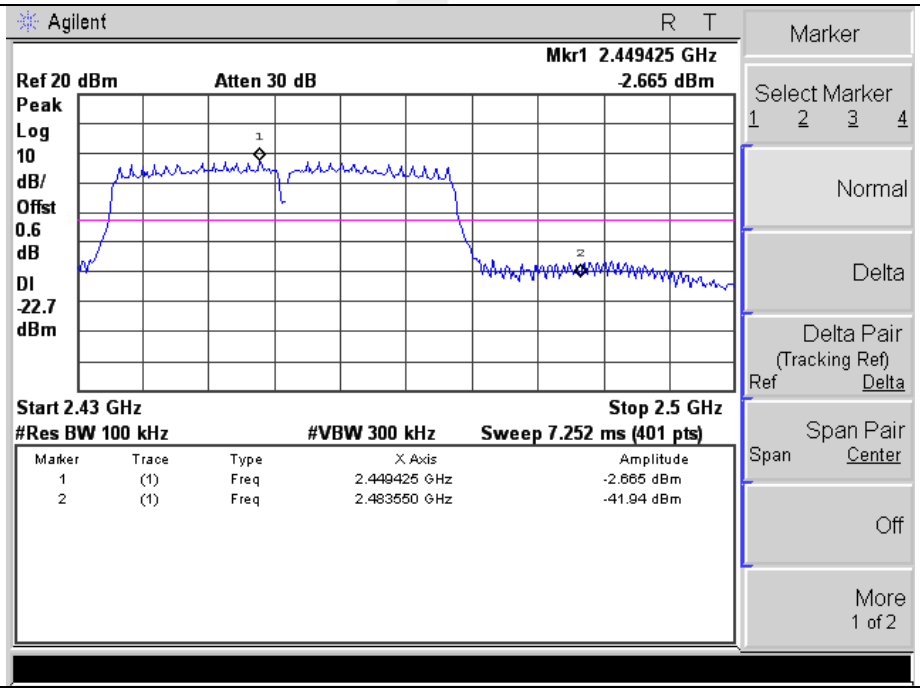

Agilent
R T
Mkr1 2.460 GHz
Ref 20 dBm
Atten 30 dB
-1.161 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-21.2
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.460 GHz -1.161 dBm
2 (1) Freq 12.949 GHz -43.68 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

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

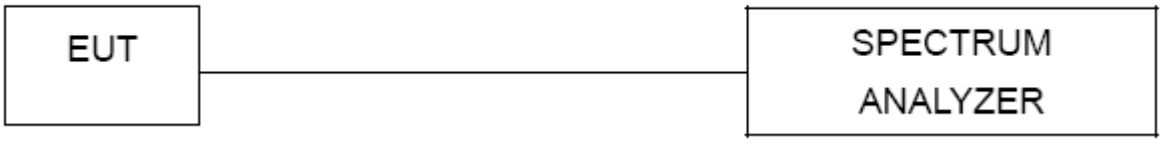
5.2 TEST PROCEDURE

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 ≥ 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



5.5 EUT OPERATION CONDITIONS

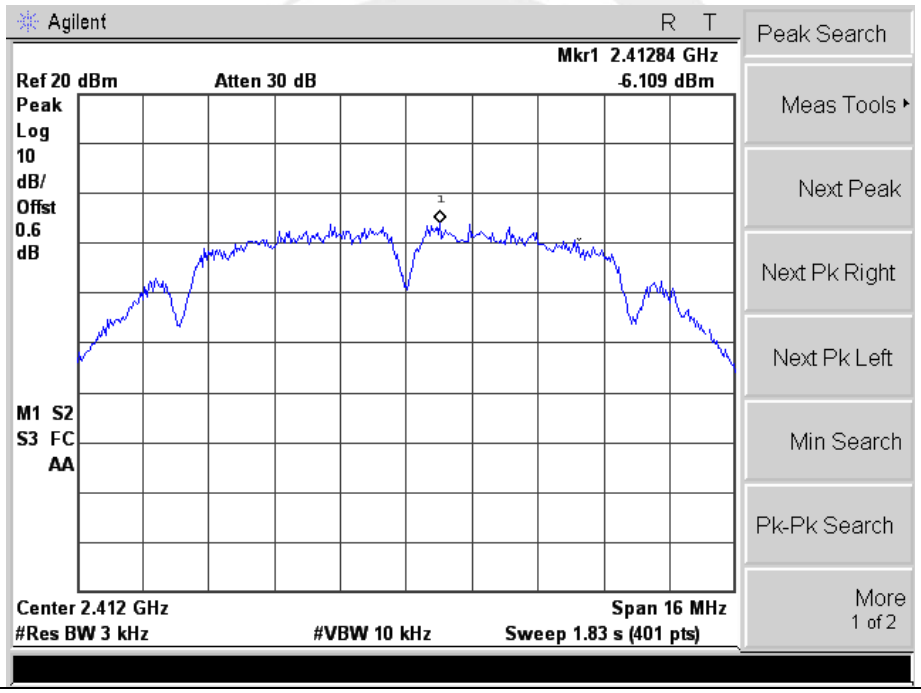
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

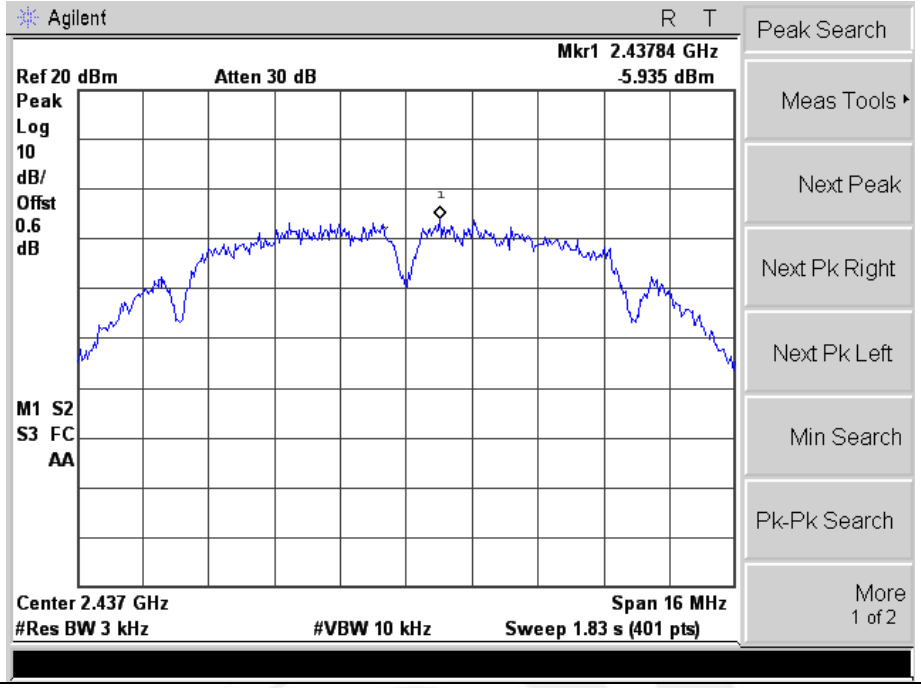
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-6.019	8	**PASS**
2437 MHz	-5.935	8	**PASS**
2462 MHz	-6.397	8	**PASS**

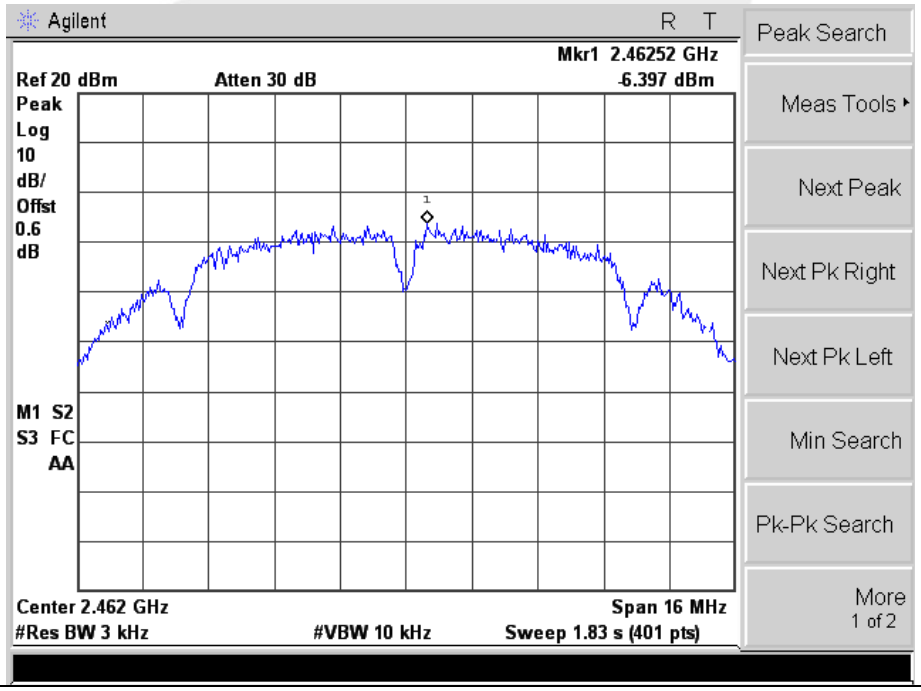
TX CH01



TX CH06



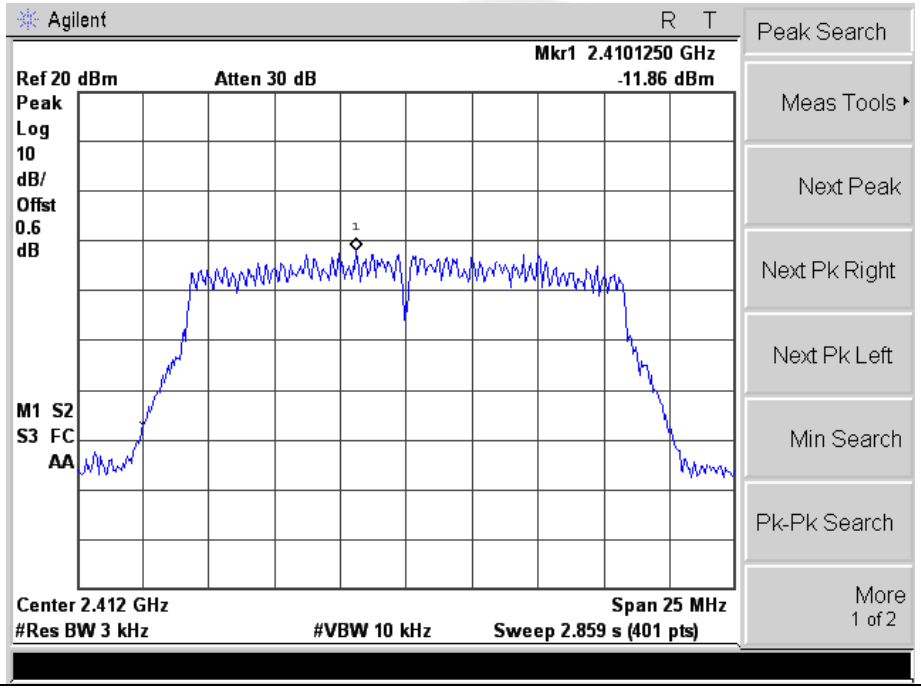
TX CH11



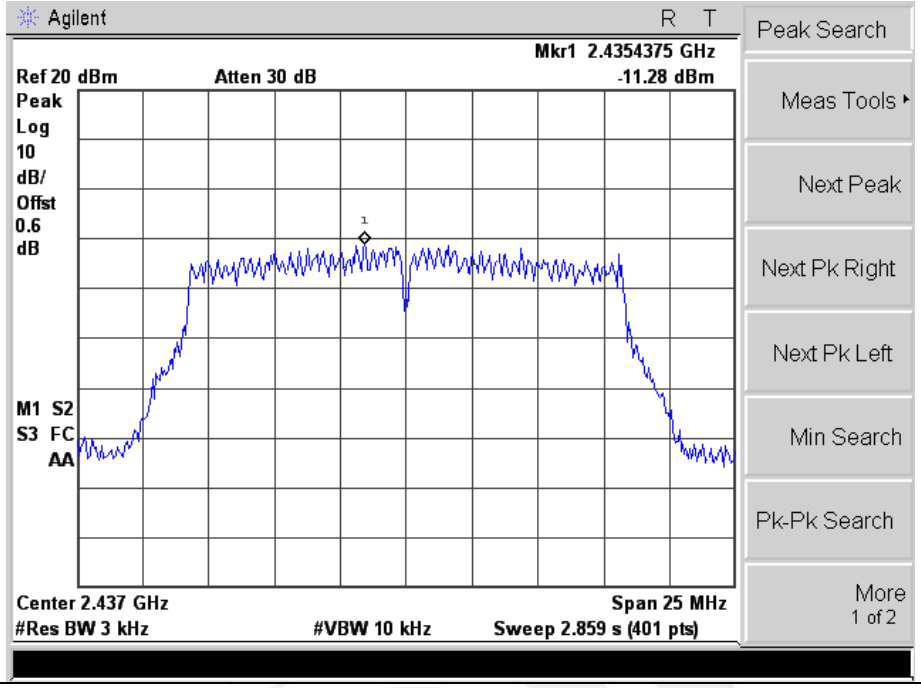
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.86	8	**PASS**
2437 MHz	-11.28	8	**PASS**
2462 MHz	-11.31	8	**PASS**

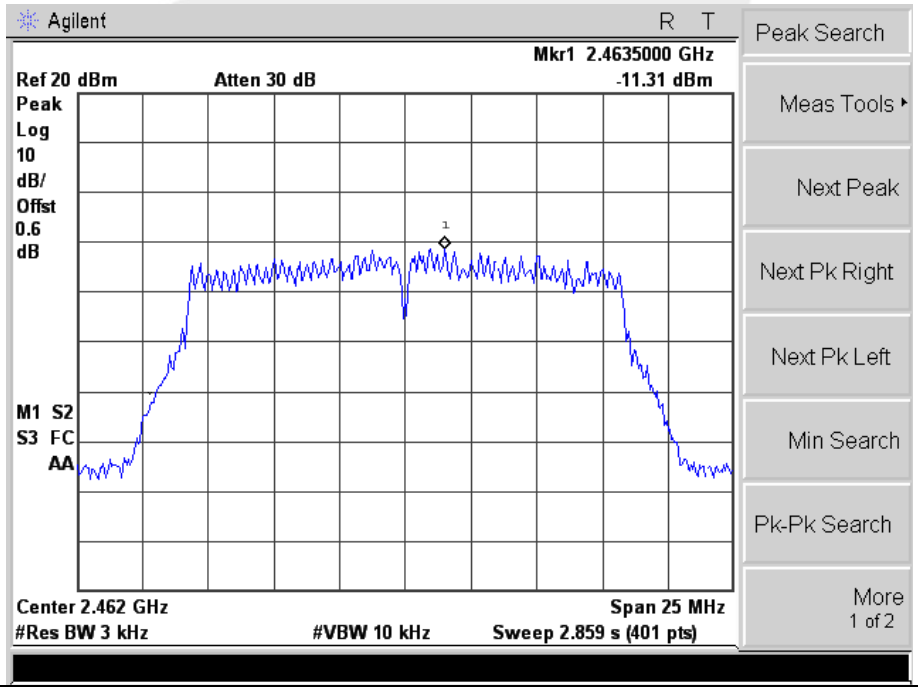
TX CH01



TX CH06



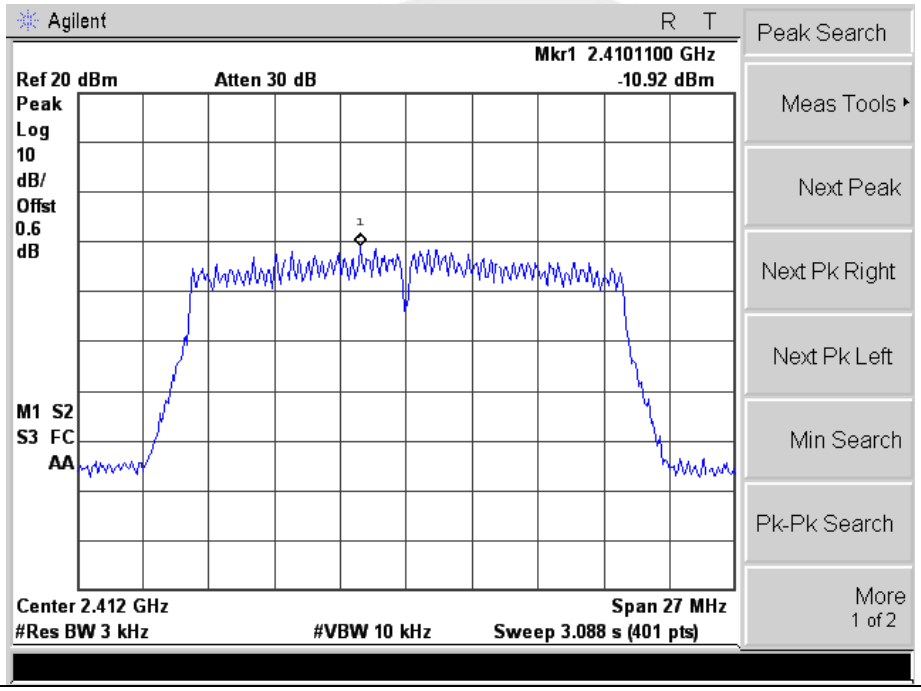
TX CH11



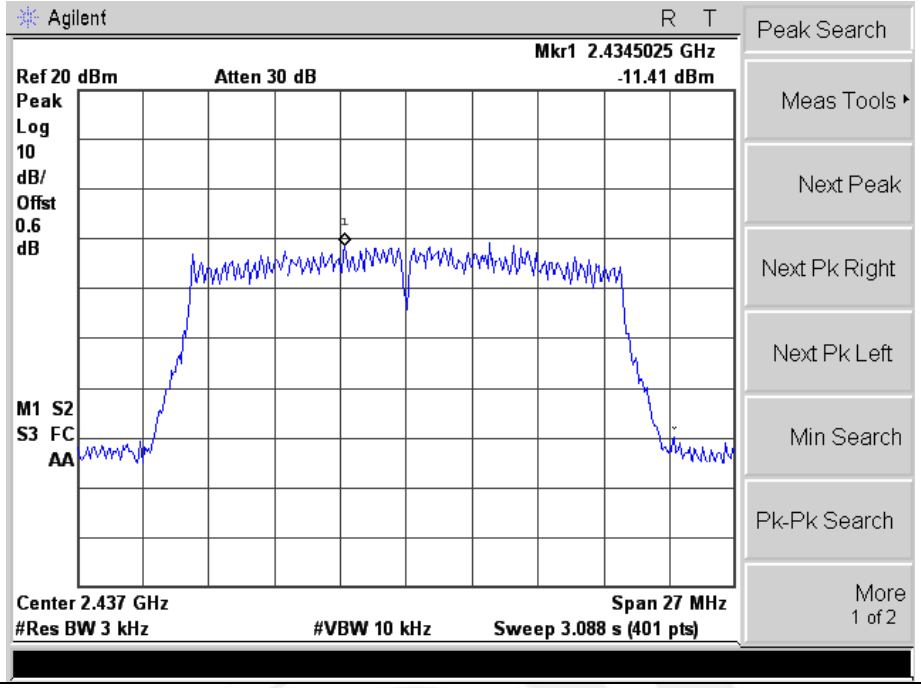
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-10.92	8	**PASS**
2437 MHz	-11.41	8	**PASS**
2462 MHz	-11.44	8	**PASS**

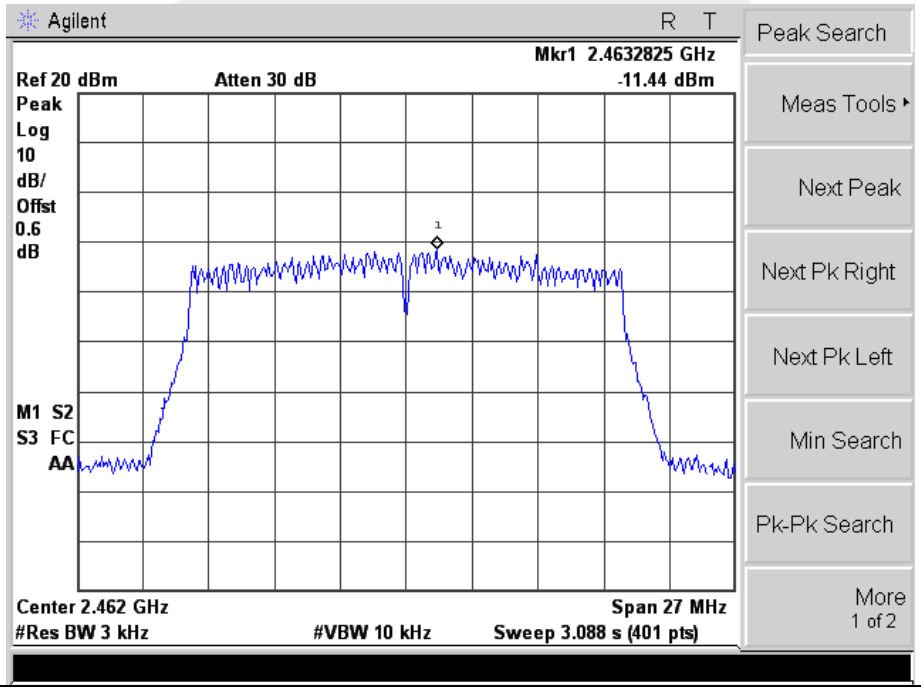
TX CH01



TX CH06



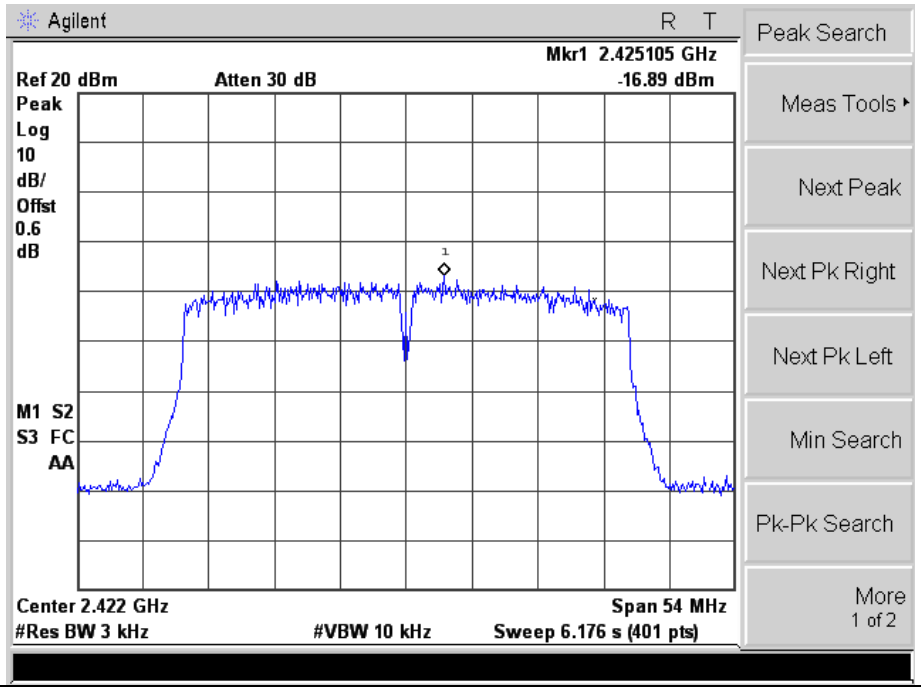
TX CH11



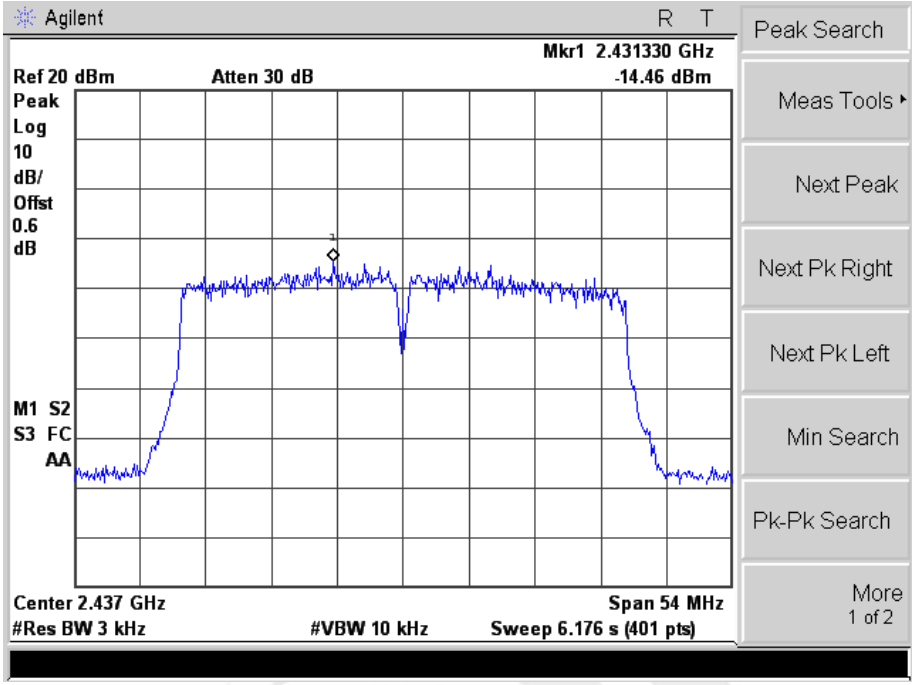
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-16.89	8	PASS
2437 MHz	-14.46	8	PASS
2452 MHz	-17.24	8	PASS

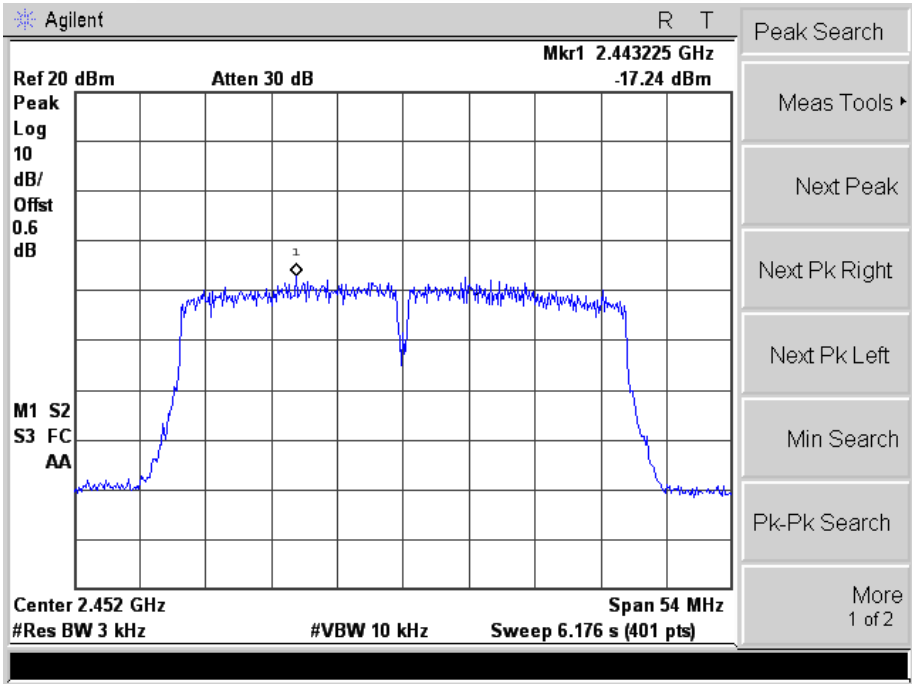
TX CH03



TX CH06



TX CH09



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

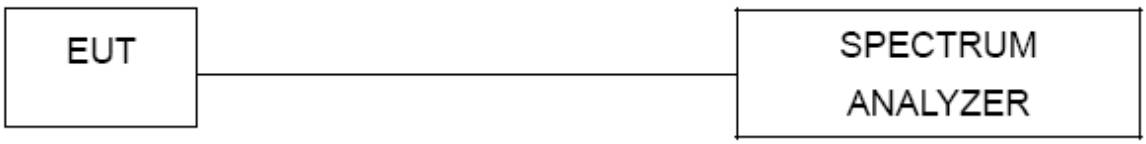
6.2 TEST PROCEDURE

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



6.5 EUT OPERATION CONDITIONS

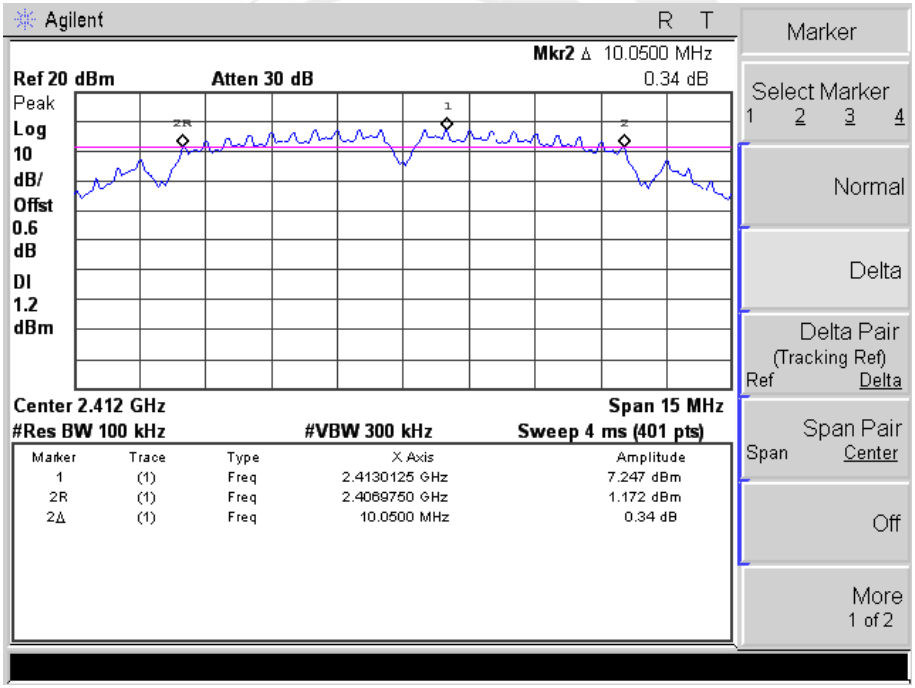
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

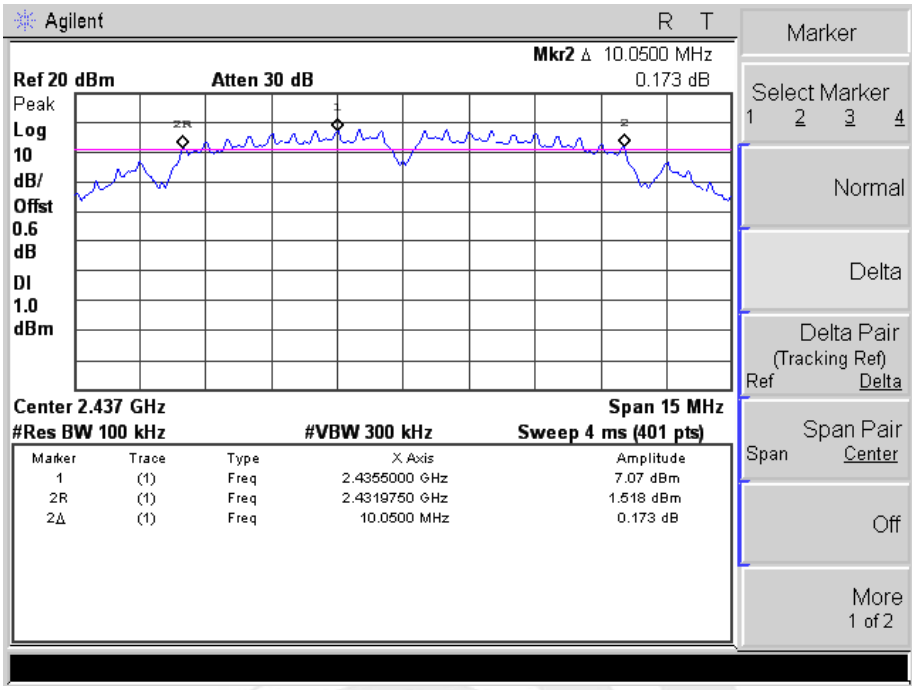
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.0500	>=500KHz	**PASS**
2437 MHz	10.0500	>=500KHz	**PASS**
2462 MHz	10.0500	>=500KHz	**PASS**

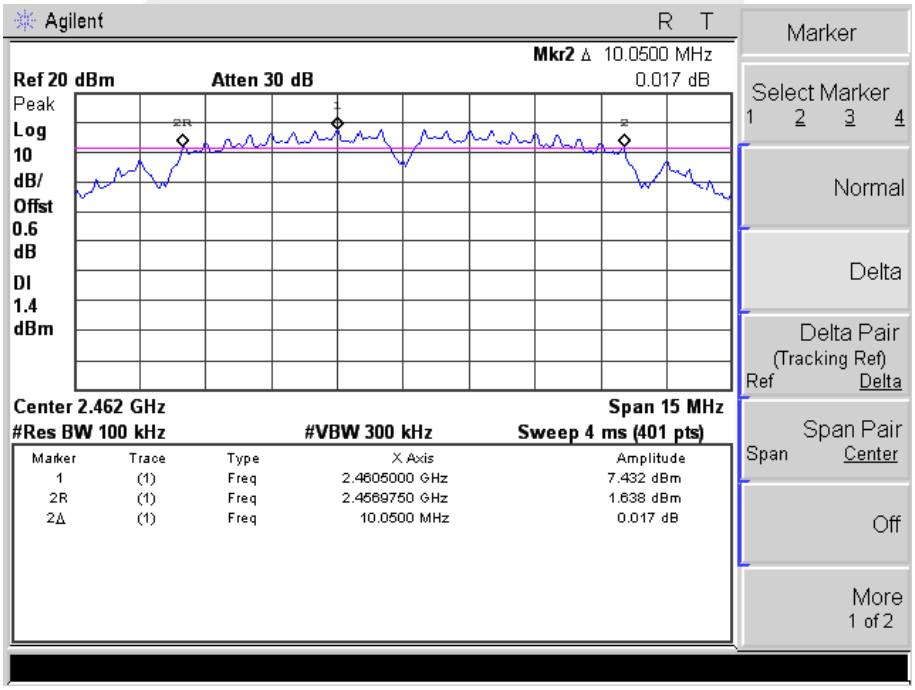
TX CH 01



TX CH 06



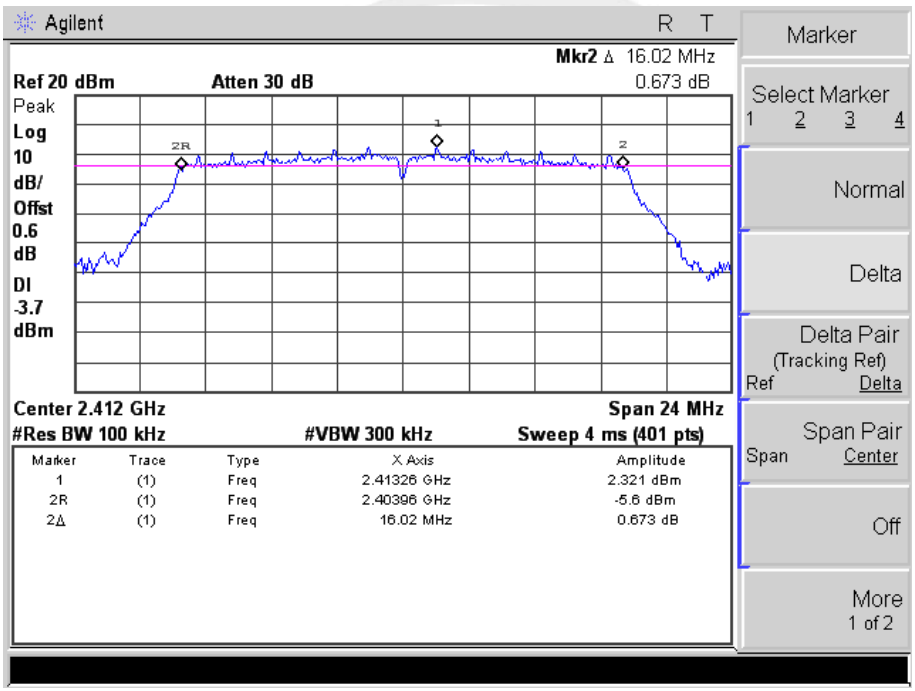
TX CH 11



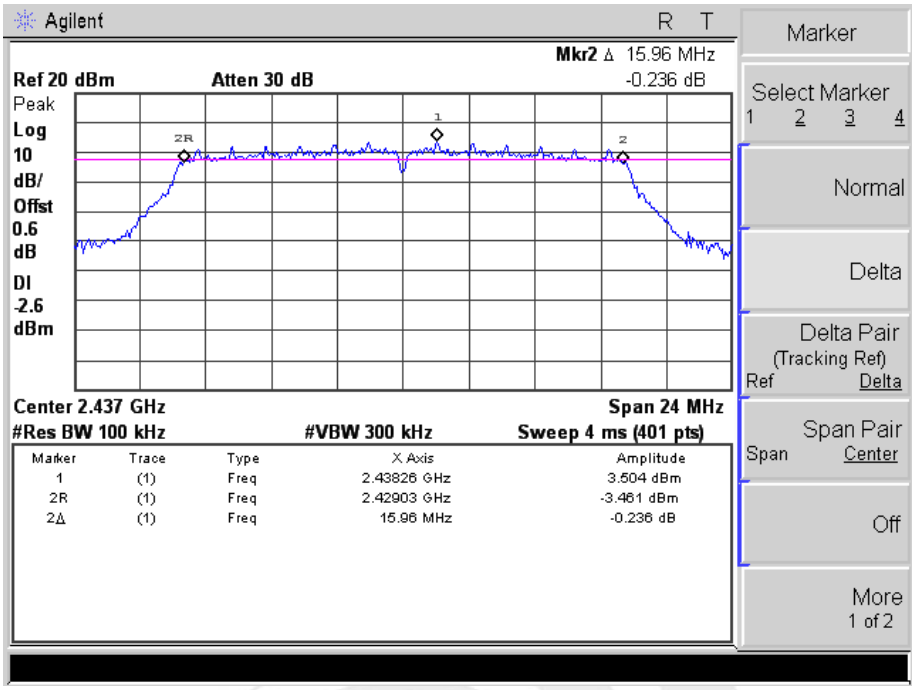
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.02	>=500KHz	**PASS**
2437 MHz	15.96	>=500KHz	**PASS**
2462 MHz	15.96	>=500KHz	**PASS**

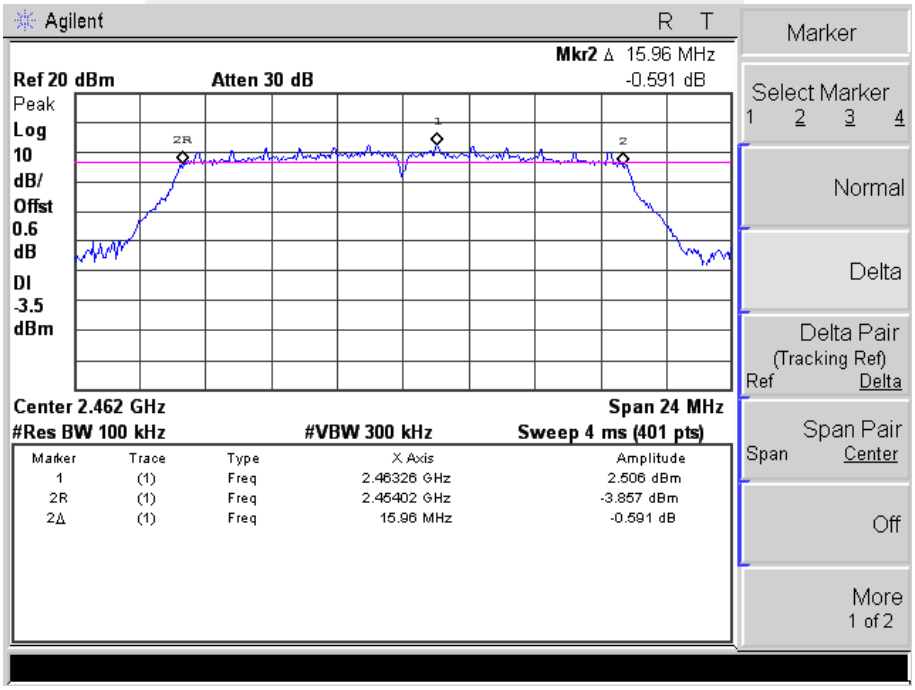
TX CH 01



TX CH 06



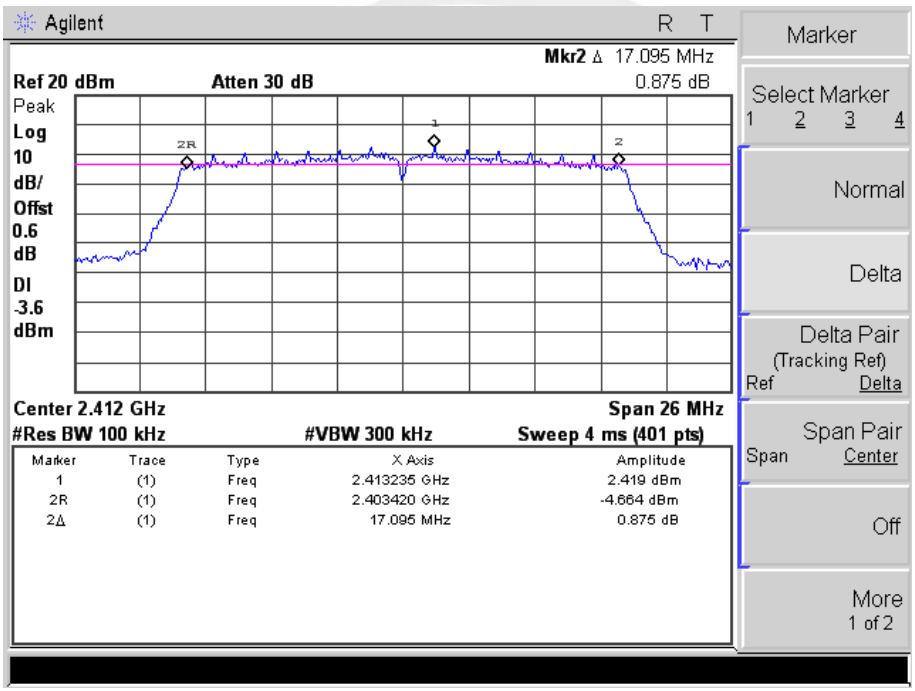
TX CH 11



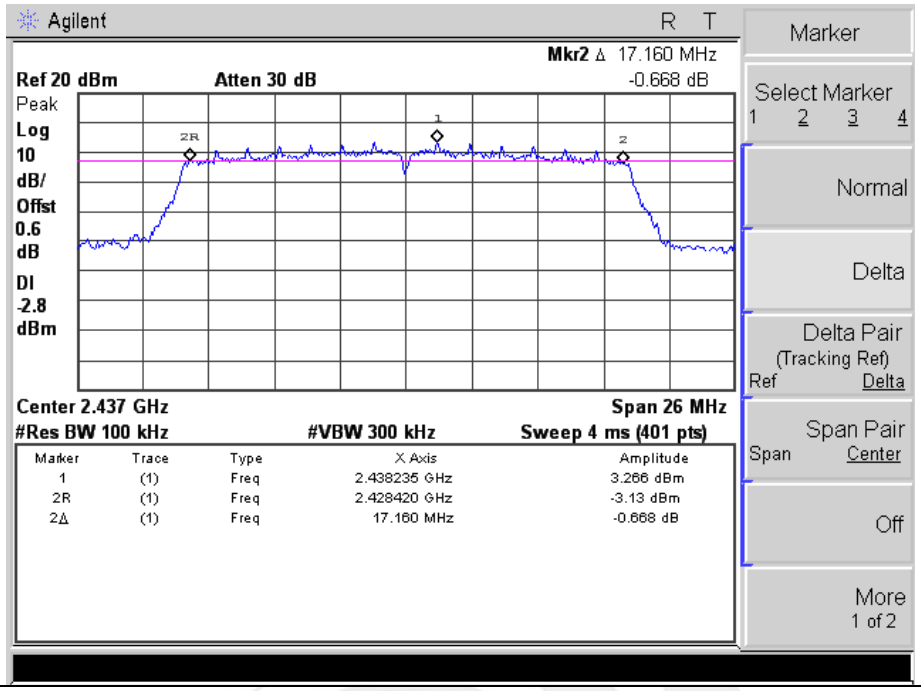
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.095	>=500KHz	**PASS**
2437 MHz	17.160	>=500KHz	**PASS**
2462 MHz	17.160	>=500KHz	**PASS**

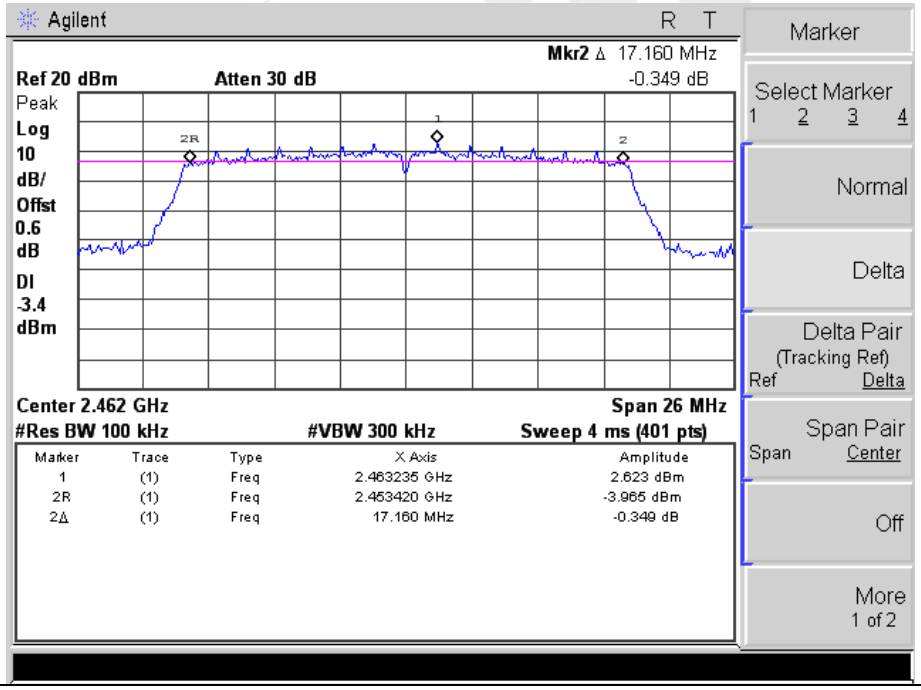
TX CH 01



TX CH 06



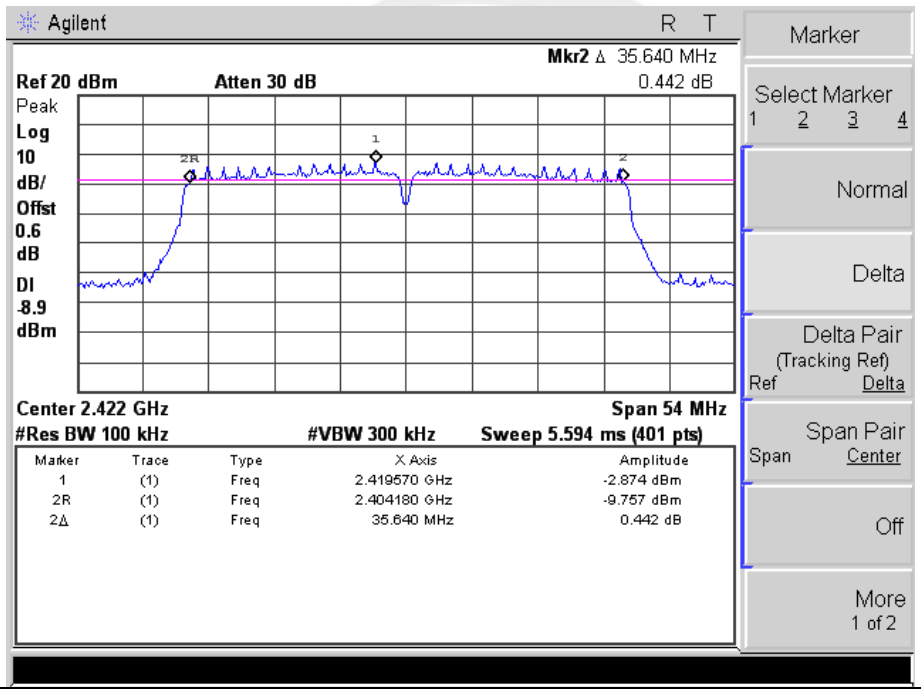
TX CH 11



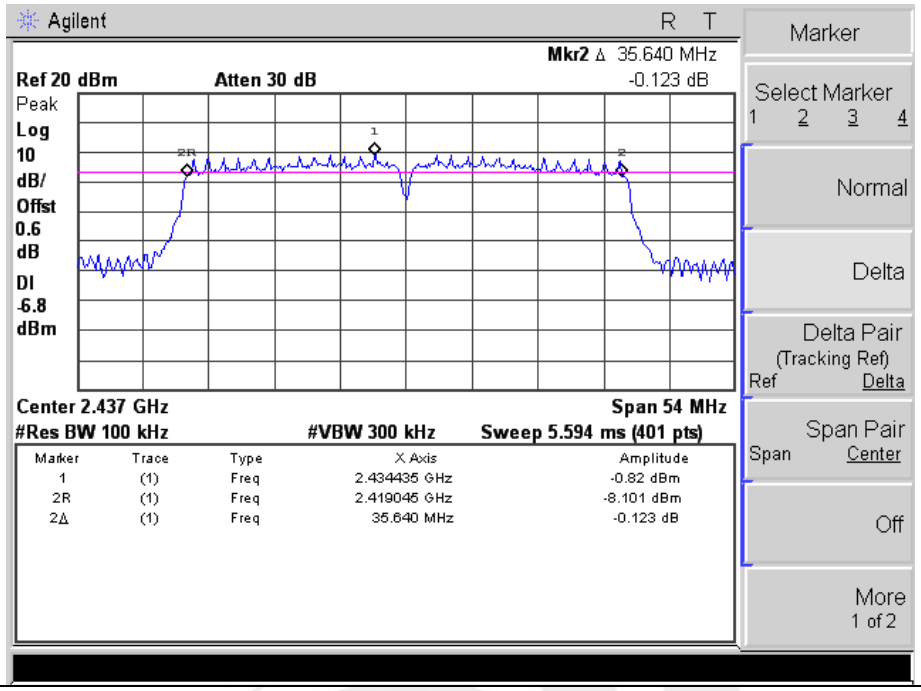
EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.640	>=500KHz	**PASS**
2437 MHz	35.640	>=500KHz	**PASS**
2452 MHz	35.640	>=500KHz	**PASS**

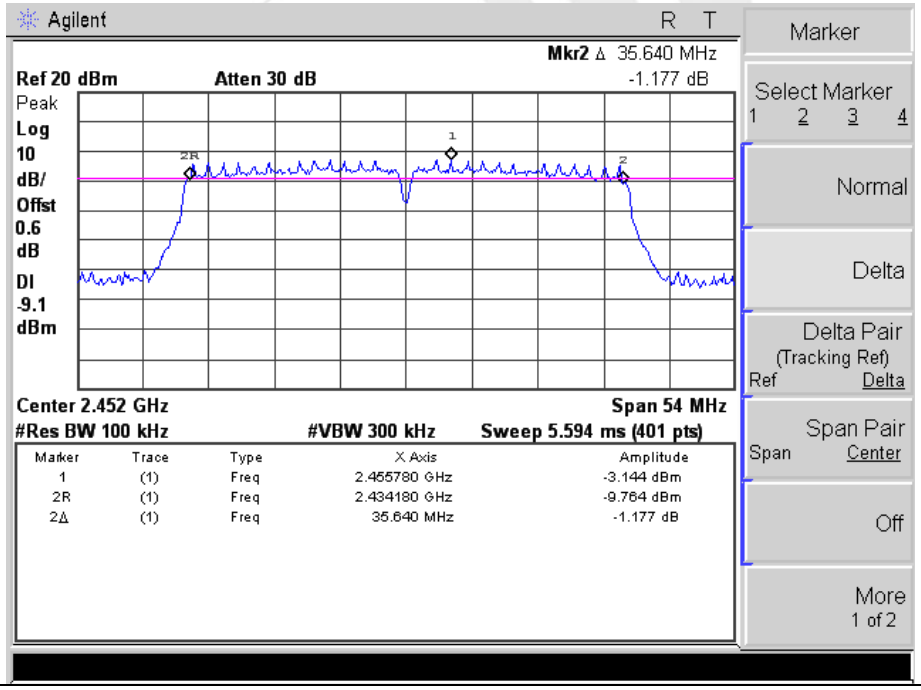
TX CH 03



TX CH 06



TX CH 09



7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

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

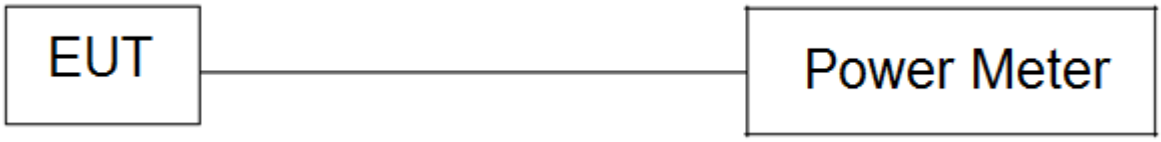
7.2 TEST PROCEDURE

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.4 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.

7.5 TEST RESULTS

EUT：	Smart Phone	Model Name ：	A071
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	14.94	30
CH06	2437	15.71	30
CH11	2462	15.53	30

TX 802.11g Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	11.13	30
CH06	2437	12.27	30
CH11	2462	11.33	30

TX 802.11n20 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	11.76	30
CH06	2437	12.11	30
CH11	2462	11.93	30

TX 802.11n40 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH03	2422	9.24	30
CH06	2437	10.32	30
CH09	2452	9.70	30

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

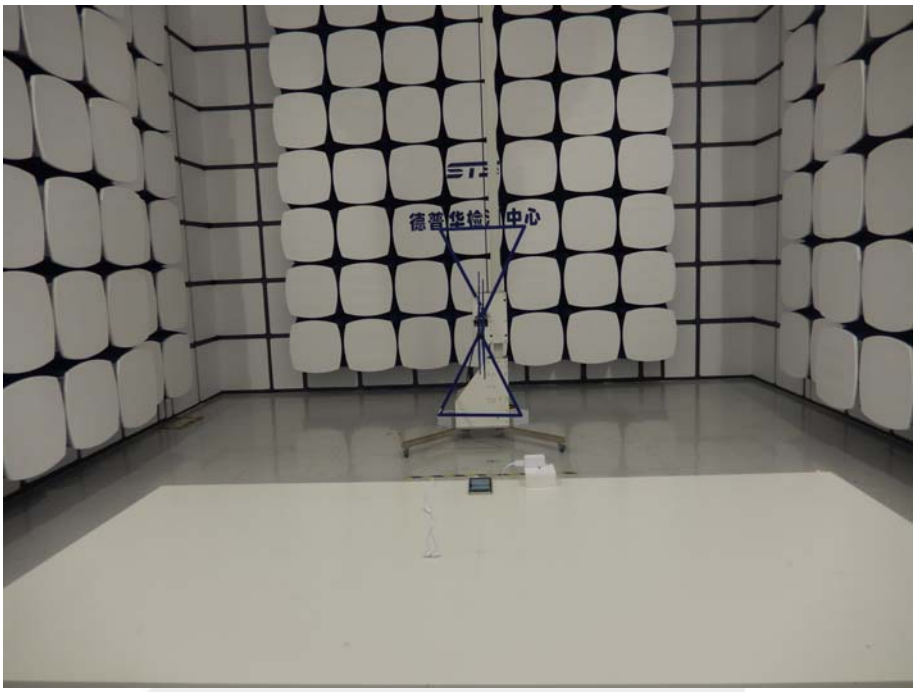
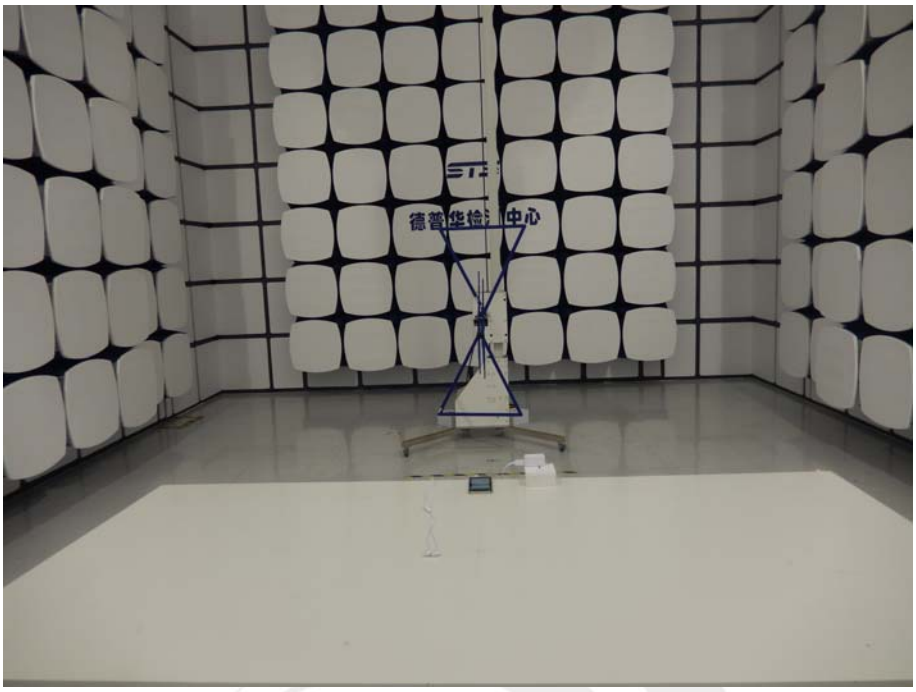
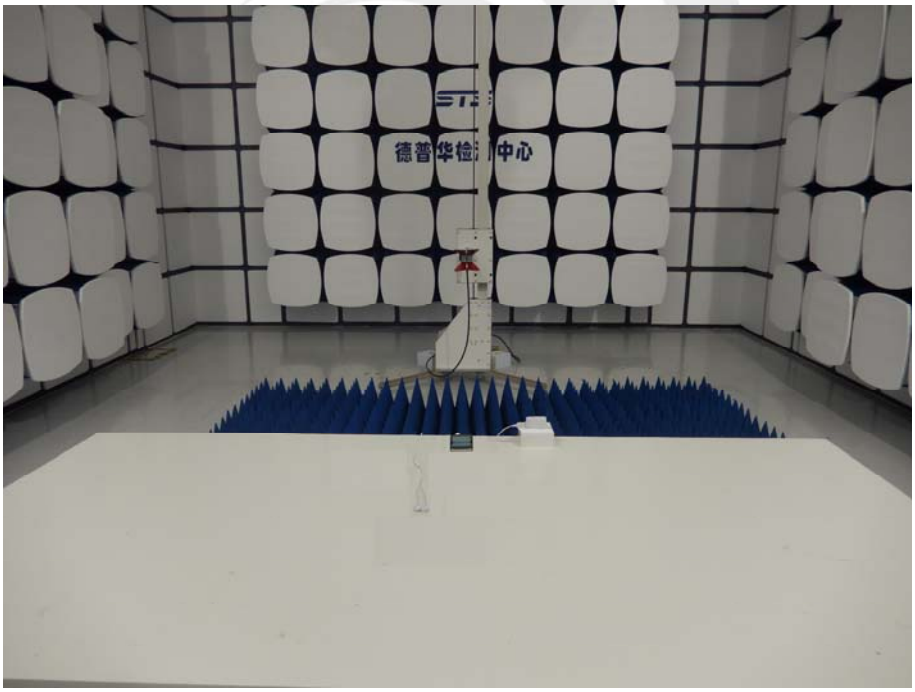
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

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

APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos



Conducted Measurement Photos