FCC RADIO TEST REPORT-WIFI
FCC ID:2ACDFMAGIC

Product：	Mobile phone
Trade Name：	Superinworld
Model Name：	MAGIC
Serial Model：	L26
Report No.：	NTEK-2015NT09012607F3

Prepared for

SUPERDIGITAL TECHNOLOGY CO., LIMITED

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	SUPERDIGITAL TECHNOLOGY CO., LIMITED
Address.....	F19,Block B,Nanxian Building,Longhua New District,Shenzhen 518000,China
Manufacture's Name...	SUPERDIGITAL TECHNOLOGY CO., LIMITED
Address.....	F19,Block B,Nanxian Building,Longhua New District,Shenzhen 518000,China
Product description	
Product name.....	Mobile phone
Model and/or type reference	MAGIC
Serial Model	L26
Standards	FCC Part15.247 01 Oct. 2014
Test procedure	ANSI C63.10-2013 and KDB 558074: June 5, 2014

This device described above has been tested by NTEK, 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.....	01 Sep. 2015 ~17 Sep. 2015
Date of Issue	17 Sep. 2015
Test Result.....	**Pass**

Testing Engineer : Eileen Liu.
(Eileen Liu)

Technical Manager : Brown Lu
(Brown Lu)

Authorized Signatory : Sam. Chen
(Sam Chen)

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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)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	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

NTEK Testing Technology Co., Ltd
Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.
FCC Registration No.:238937; IC Registration No.:9270A-1
CNAS Registration No.:L5516

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

<table>
<tr><td>Equipment</td><td>Mobile phone</td></tr>
<tr><td>Trade Name</td><td>Superinworld</td></tr>
<tr><td>Model Name</td><td>MAGIC</td></tr>
<tr><td>Serial Model</td><td>L26</td></tr>
<tr><td>Model Difference</td><td>All the model are the same circuit and RF module,
except the model name and colour.</td></tr>
<tr><td>Product Description</td><td>
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n(20MHz): 2412~2462MHz
802.11n(40MHz):2422~2452MHz</td></tr>
<tr><td>Modulation Type:</td><td>IEEE 802.11b :
DSSS (CCK, QPSK, DBPSK)
IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6Mbps
802.11n(20MHz/40MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps</td></tr>
<tr><td>Number Of Channel</td><td>802.11b/g/n20MHz:11CH
802.11n40MHz:7CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Antenna Gain (dBi)</td><td>1.0 dbi</td></tr>
</table>
</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Ratings</td><td>DC 3.7V</td></tr>
<tr><td>Adapter</td><td>Mode:KA25-0501000US
Input: 100-240V~, 50/60Hz, 0.25A Max
Output: 5.0V⎓, 1000mA</td></tr>
<tr><td>Battery</td><td>DC 3.7V,1800mAh</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
</table>

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(20 MHz)							
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	FPCB Antenna	N/A	1.0	Wifi Antenna

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	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

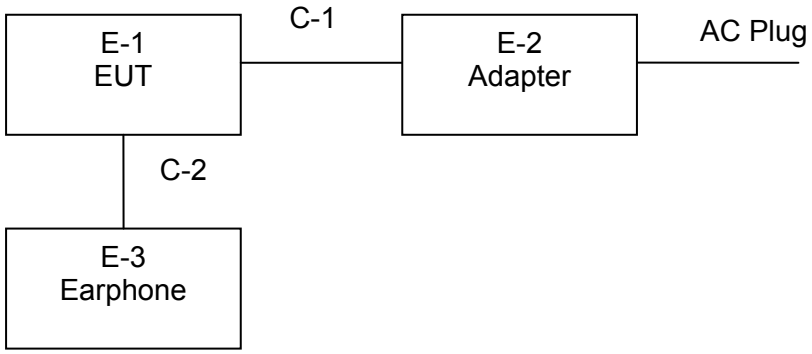
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

(3) EUT configured to transmit continuously:

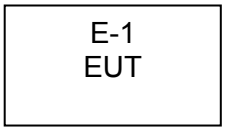
Operated Mode for Worst Duty Cycle	
Test Signal Duty Cycle (x)	Average correction factor (dB)
100% - IEEE 802.11b	0
100% - IEEE 802.11g	0
100% - IEEE 802.11n (HT20)	0
100% - IEEE 802.11n (HT40)	0

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Brand	Model/Type No.	Series No.	Note
E-1	Mobile phone	Superinworld	MAGIC	N/A	EUT
E-2	Adapter	N/A	KA25-0501000US	N/A	
E-3	Earphone	N/A	2688		

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	

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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.06	2016.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.06	2016.06.05	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.06	2016.06.05	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2015.07.06	2016.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.06	2016.06.05	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.06	2016.06.05	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.06	2016.06.05	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.07.06	2016.07.05	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	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

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

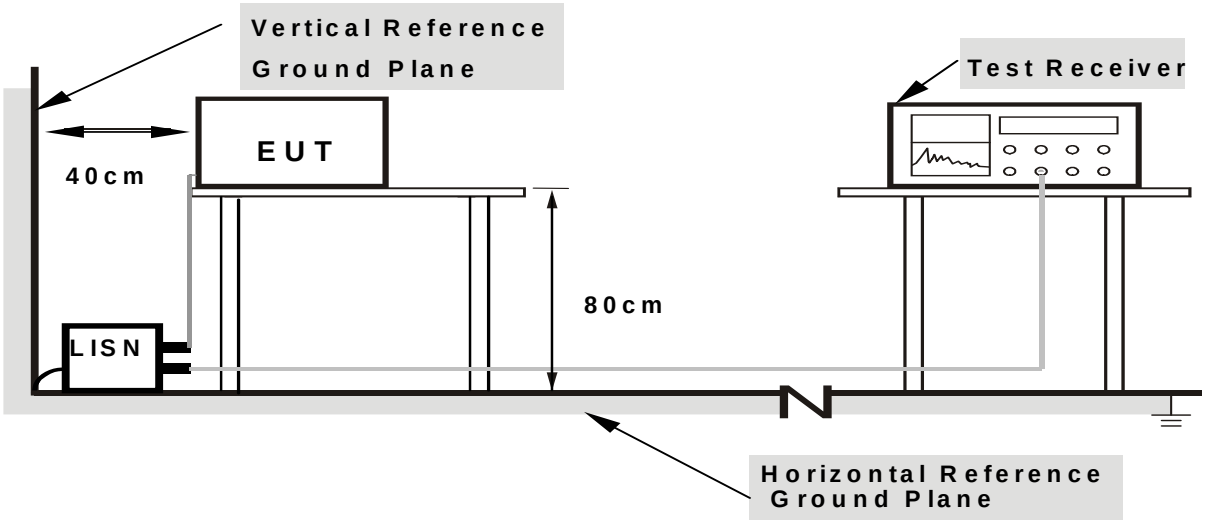
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

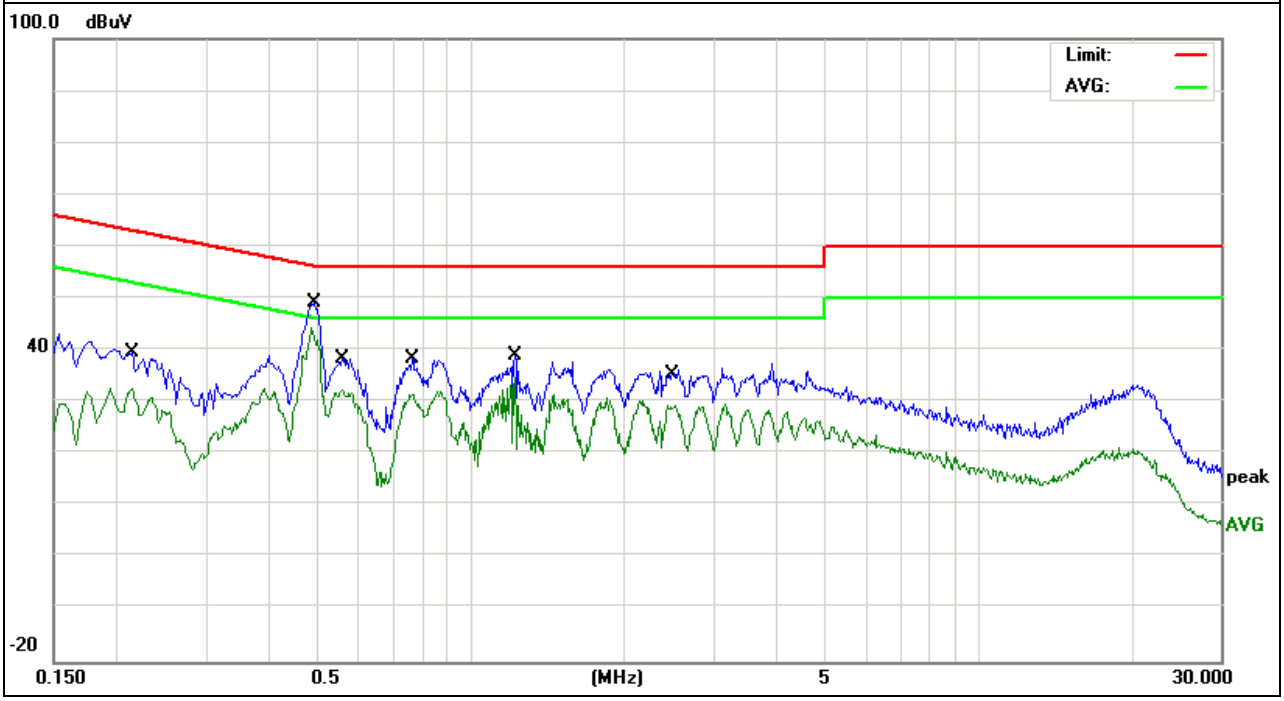
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V form Adapter AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2139	30.43	9.62	40.05	63.05	-23.00	QP
0.2139	23.12	9.62	32.74	53.05	-20.31	AVG
0.4820	39.51	9.68	49.19	56.30	-7.11	QP
0.4820	33.72	9.68	43.40	46.30	-2.90	AVG
0.5580	28.79	9.67	38.46	56.00	-17.54	QP
0.5580	22.55	9.67	32.22	46.00	-13.78	AVG
0.7580	28.81	9.63	38.44	56.00	-17.56	QP
0.7580	21.77	9.63	31.40	46.00	-14.60	AVG
1.2180	29.48	9.59	39.07	56.00	-16.93	QP
1.2180	25.26	9.59	34.85	46.00	-11.15	AVG
2.5139	26.75	9.53	36.28	56.00	-19.72	QP
2.5139	19.96	9.53	29.49	46.00	-16.51	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

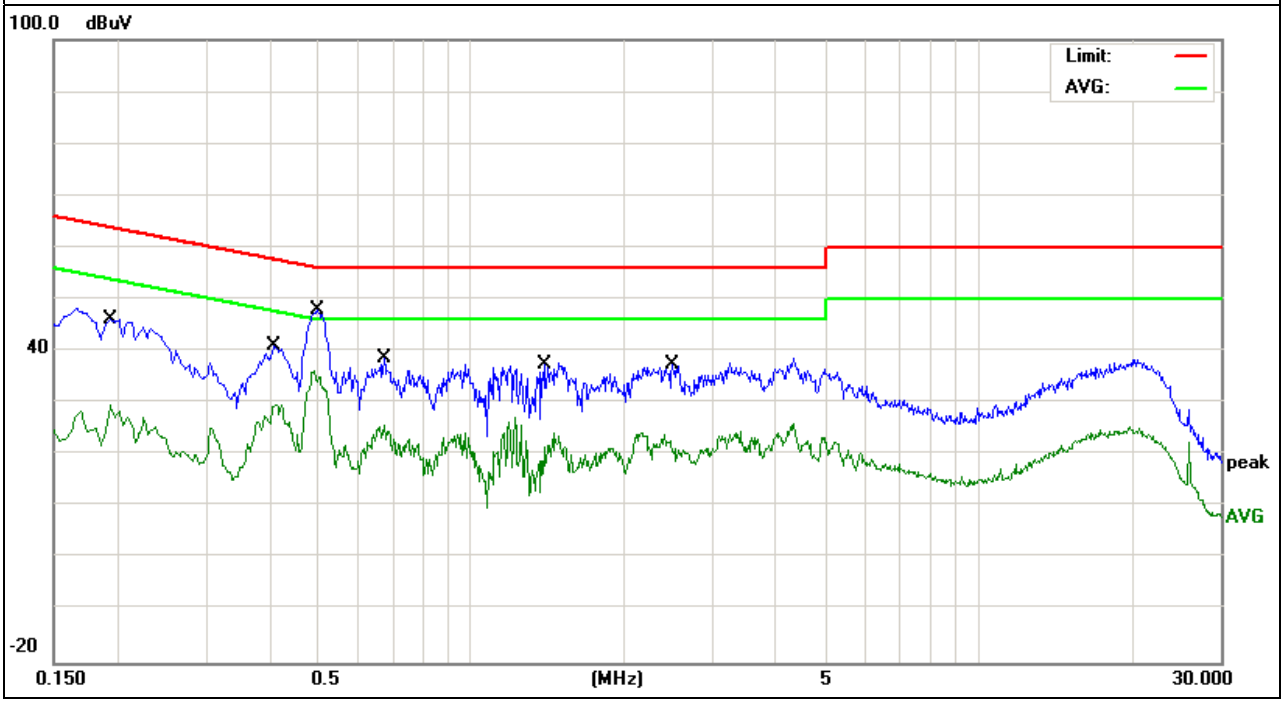


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V form Adapter AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1940	36.69	9.61	46.30	63.86	-17.56	QP
0.1940	20.01	9.61	29.62	53.86	-24.24	AVG
0.4099	31.45	9.64	41.09	57.65	-16.56	QP
0.4099	20.03	9.64	29.67	47.65	-17.98	AVG
0.4979	38.23	9.68	47.91	56.03	-8.12	QP
0.4979	26.51	9.68	36.19	46.03	-9.84	AVG
0.6740	28.96	9.64	38.60	56.00	-17.40	QP
0.6740	16.08	9.64	25.72	46.00	-20.28	AVG
1.3899	27.88	9.58	37.46	56.00	-18.54	QP
1.3899	17.73	9.58	27.31	46.00	-18.69	AVG
2.4900	27.83	9.53	37.36	56.00	-18.64	QP
2.4900	14.80	9.53	24.33	46.00	-21.67	AVG

Remark:

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

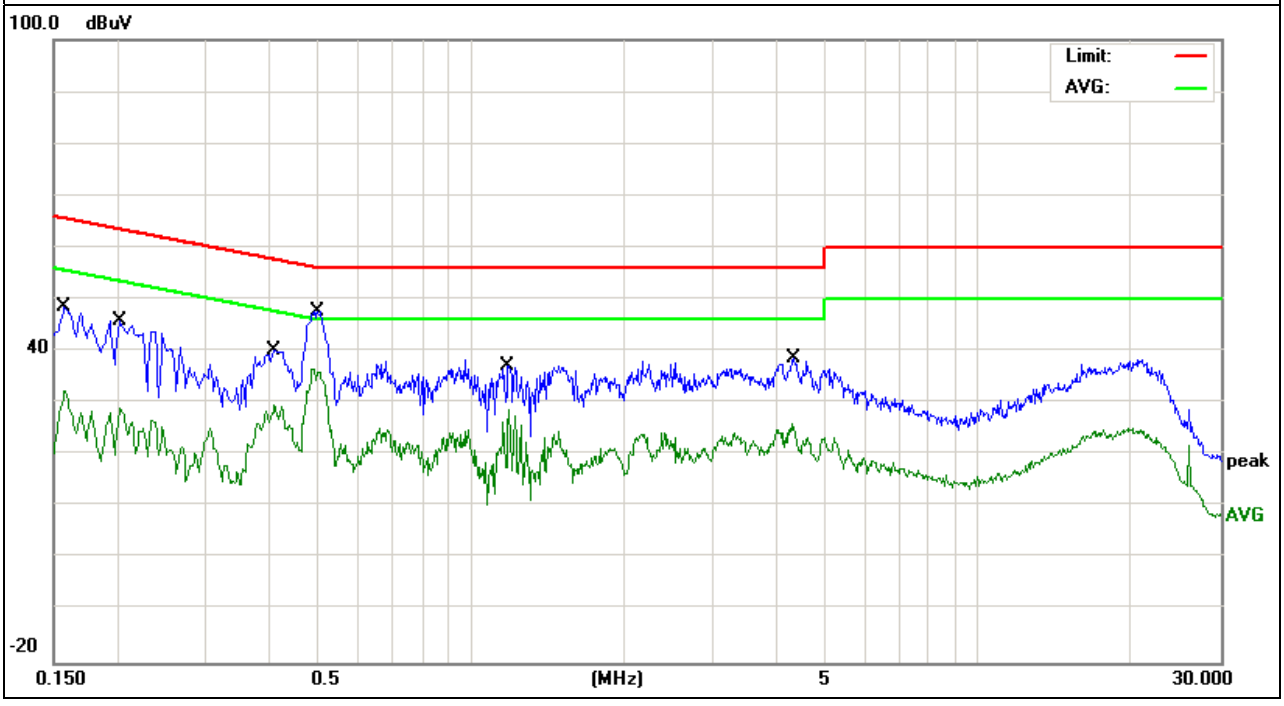


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V form Adapter AC 240V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1580	38.84	9.60	48.44	65.56	-17.12	QP
0.1580	22.82	9.60	32.42	55.56	-23.14	AVG
0.2028	35.81	9.61	45.42	63.49	-18.07	QP
0.2028	19.51	9.61	29.12	53.49	-24.37	AVG
0.4100	30.62	9.64	40.26	57.65	-17.39	QP
0.4100	20.07	9.64	29.71	47.65	-17.94	AVG
0.4980	38.11	9.68	47.79	56.03	-8.24	QP
0.4980	26.98	9.68	36.66	46.03	-9.37	AVG
1.1860	27.57	9.60	37.17	56.00	-18.83	QP
1.1860	19.04	9.60	28.64	46.00	-17.36	AVG
4.3299	29.12	9.51	38.63	56.00	-17.37	QP
4.3299	16.53	9.51	26.04	46.00	-19.96	AVG

Remark:

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

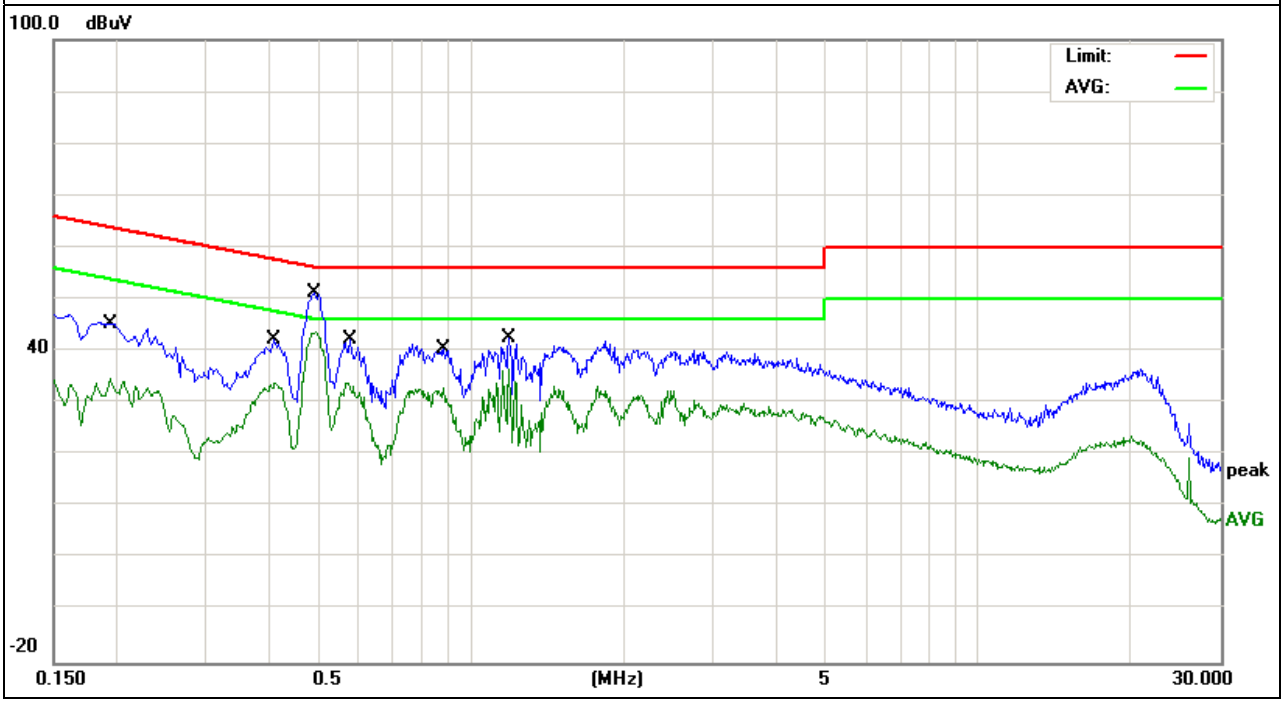


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V form Adapter AC 240V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1940	35.60	9.61	45.21	63.86	-18.65	QP
0.1940	25.26	9.61	34.87	53.86	-18.99	AVG
0.4099	32.62	9.64	42.26	57.65	-15.39	QP
0.4099	24.19	9.64	33.83	47.65	-13.82	AVG
0.4940	41.72	9.68	51.40	56.10	-4.70	QP
0.4940	33.95	9.68	43.63	46.10	-2.47	AVG
0.5738	32.45	9.67	42.12	56.00	-13.88	QP
0.5738	24.23	9.67	33.90	46.00	-12.10	AVG
0.8820	31.75	9.63	41.38	56.00	-14.62	QP
0.8820	23.21	9.63	32.84	46.00	-13.16	AVG
1.1860	32.84	9.60	42.44	56.00	-13.56	QP
1.1860	27.07	9.60	36.67	46.00	-9.33	AVG

Remark:

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

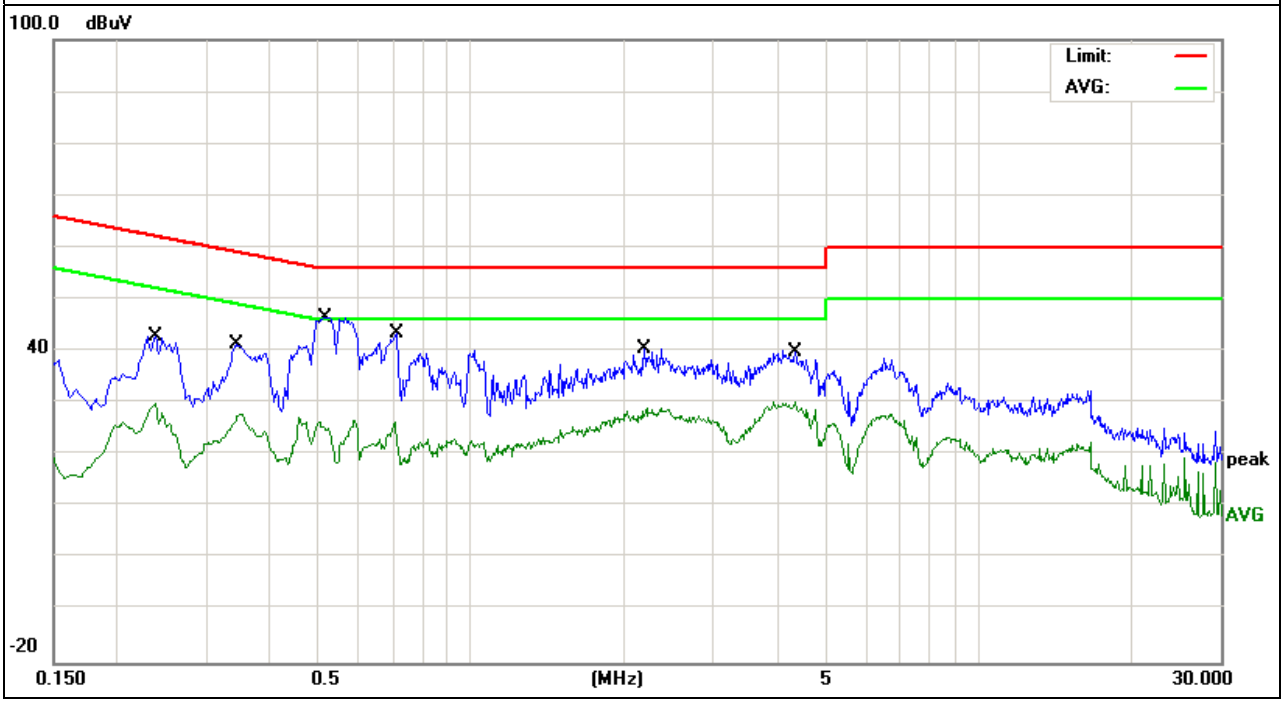


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V form PC AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2380	33.35	9.61	42.96	62.16	-19.20	QP
0.2380	20.21	9.61	29.82	52.16	-22.34	AVG
0.3460	31.58	9.63	41.21	59.06	-17.85	QP
0.3460	18.30	9.63	27.93	49.06	-21.13	AVG
0.5140	36.88	9.68	46.56	56.00	-9.44	QP
0.5140	17.01	9.68	26.69	46.00	-19.31	AVG
0.7140	33.85	9.64	43.49	56.00	-12.51	QP
0.7140	16.71	9.64	26.35	46.00	-19.65	AVG
2.1900	30.82	9.54	40.36	56.00	-15.64	QP
2.1900	19.48	9.54	29.02	46.00	-16.98	AVG
4.3499	30.65	9.51	40.16	56.00	-15.84	QP
4.3499	20.86	9.51	30.37	46.00	-15.63	AVG

Remark:

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

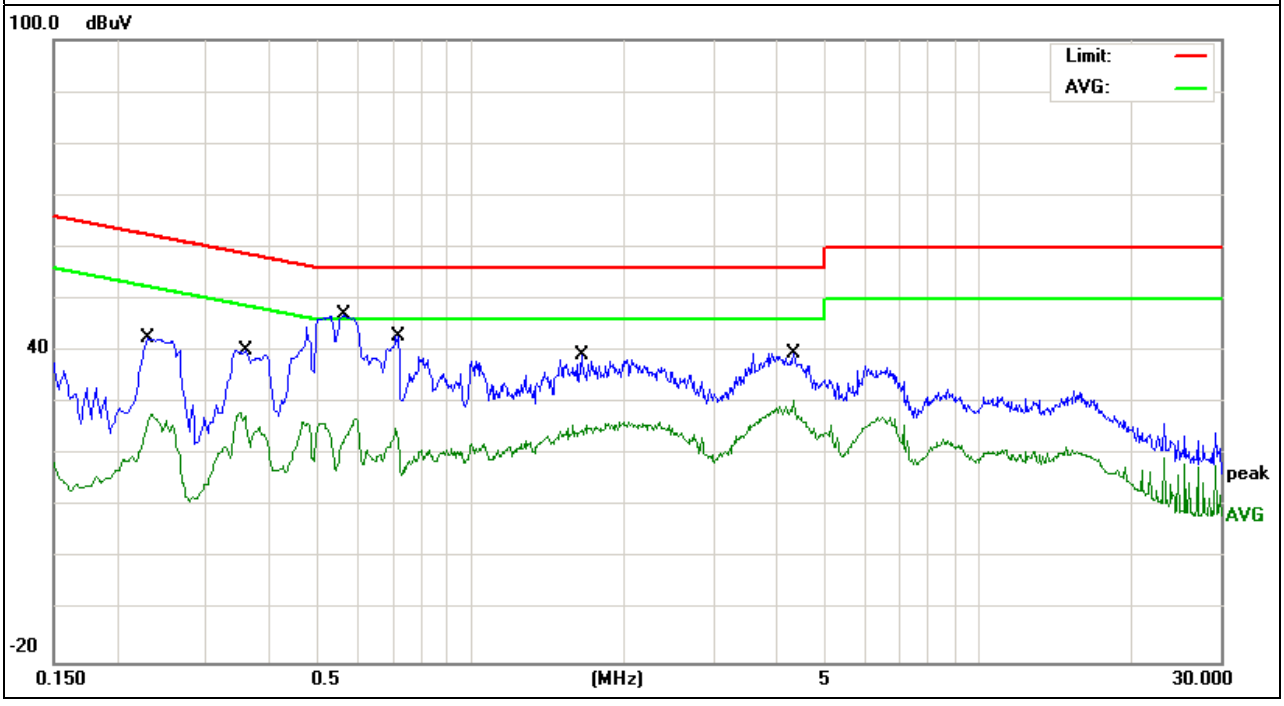


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V form PC AC 120V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2300	32.92	9.61	42.53	62.45	-19.92	QP
0.2300	18.38	9.61	27.99	52.45	-24.46	AVG
0.3580	30.60	9.63	40.23	58.77	-18.54	QP
0.3580	18.62	9.63	28.25	48.77	-20.52	AVG
0.5620	37.35	9.67	47.02	56.00	-8.98	QP
0.5620	17.36	9.67	27.03	46.00	-18.97	AVG
0.7180	33.34	9.64	42.98	56.00	-13.02	QP
0.7180	15.37	9.64	25.01	46.00	-20.99	AVG
1.6500	29.78	9.56	39.34	56.00	-16.66	QP
1.6500	16.57	9.56	26.13	46.00	-19.87	AVG
4.3259	30.07	9.51	39.58	56.00	-16.42	QP
4.3259	21.04	9.51	30.55	46.00	-15.45	AVG

Remark:

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

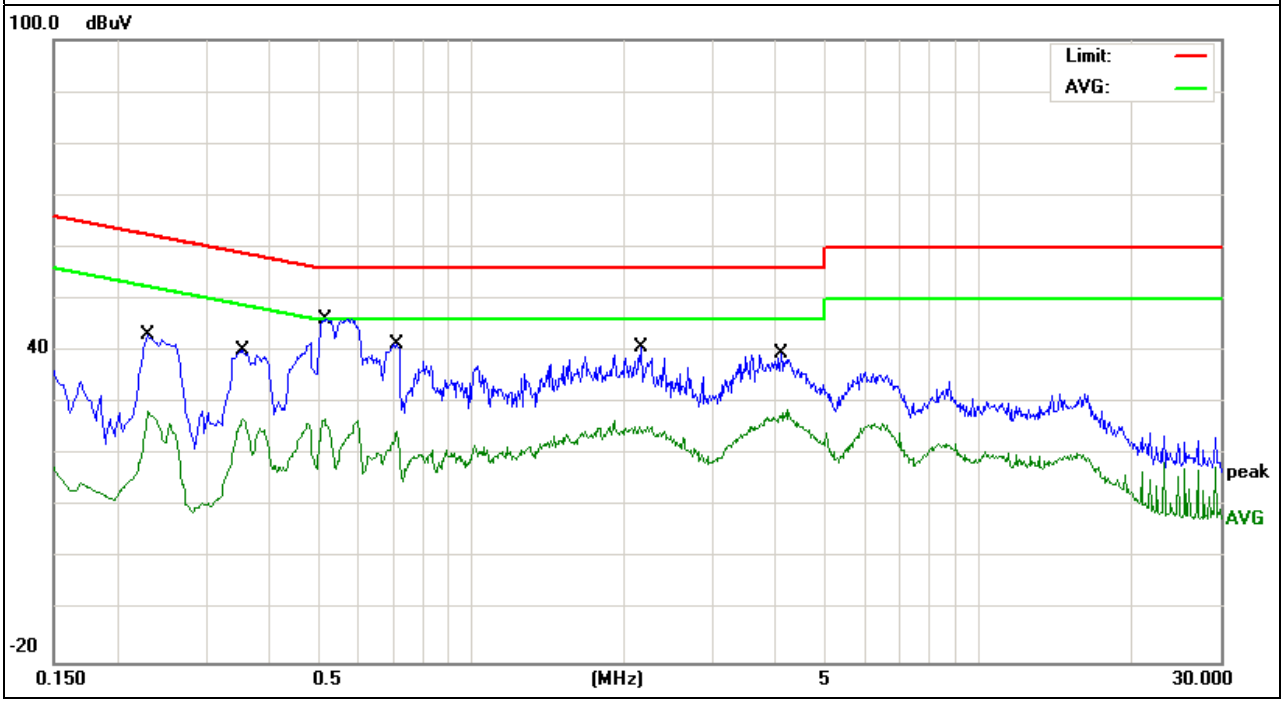


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V form PC AC 240V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2300	33.42	9.61	43.03	62.45	-19.42	QP
0.2300	18.77	9.61	28.38	52.45	-24.07	AVG
0.3540	30.48	9.63	40.11	58.87	-18.76	QP
0.3540	17.20	9.63	26.83	48.87	-22.04	AVG
0.5180	36.53	9.68	46.21	56.00	-9.79	QP
0.5180	17.16	9.68	26.84	46.00	-19.16	AVG
0.7140	31.64	9.64	41.28	56.00	-14.72	QP
0.7140	14.86	9.64	24.50	46.00	-21.50	AVG
2.1580	31.20	9.54	40.74	56.00	-15.26	QP
2.1580	17.06	9.54	26.60	46.00	-19.40	AVG
4.0779	30.14	9.51	39.65	56.00	-16.35	QP
4.0779	19.39	9.51	28.90	46.00	-17.10	AVG

Remark:

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

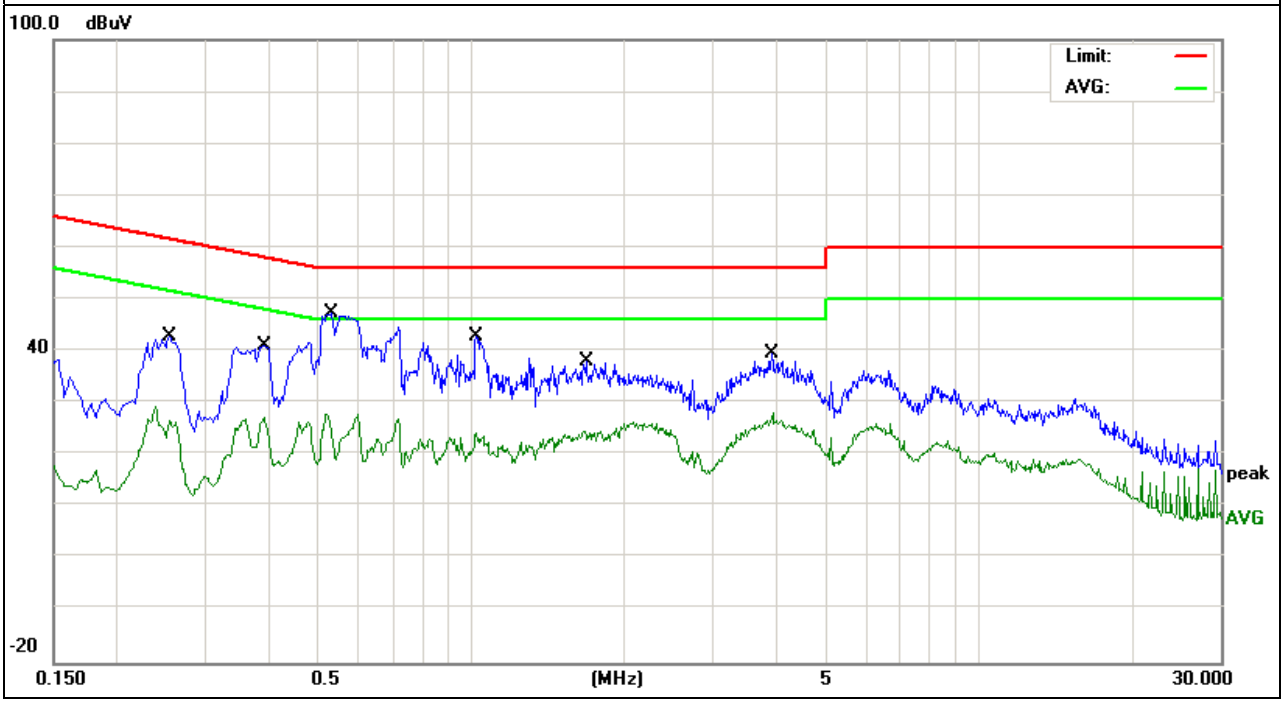


EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V form PC AC 240V/60Hz	Test Mode：	Mode 5

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2540	33.23	9.61	42.84	61.62	-18.78	QP
0.2540	19.75	9.61	29.36	51.62	-22.26	AVG
0.3899	31.43	9.64	41.07	58.06	-16.99	QP
0.3899	17.64	9.64	27.28	48.06	-20.78	AVG
0.5299	37.62	9.68	47.30	56.00	-8.70	QP
0.5299	18.27	9.68	27.95	46.00	-18.05	AVG
1.0260	33.10	9.61	42.71	56.00	-13.29	QP
1.0260	14.76	9.61	24.37	46.00	-21.63	AVG
1.6860	28.58	9.56	38.14	56.00	-17.86	QP
1.6860	16.80	9.56	26.36	46.00	-19.64	AVG
3.9140	30.14	9.51	39.65	56.00	-16.35	QP
3.9140	18.59	9.51	28.10	46.00	-17.90	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 (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(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)	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).

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

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 m for below 1GHz and 1.5m for above 1GHz 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 for below 1GHz and 1.5m for above 1GHz; 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

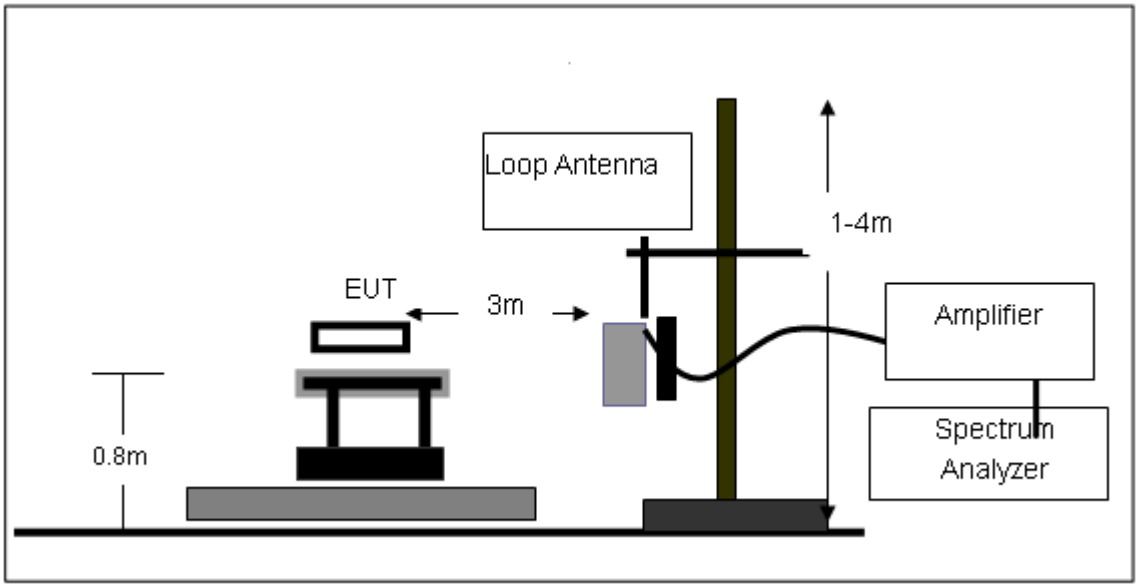
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

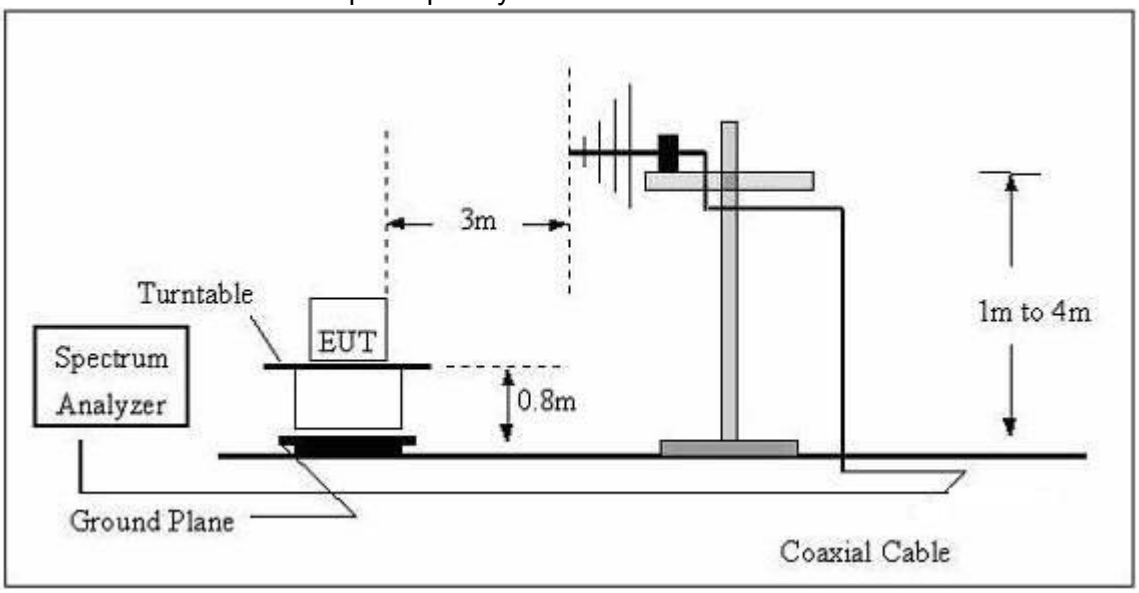
No deviation

3.2.4 TEST SETUP

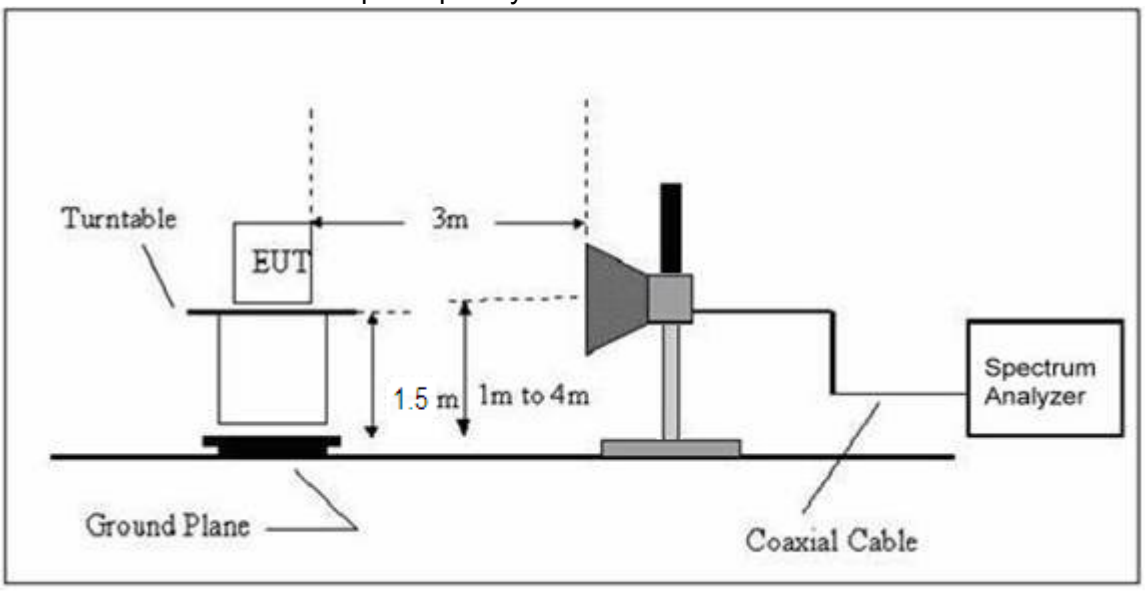
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT：	Mobile phone	Model Name. ：	MAGIC
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	--

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

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.

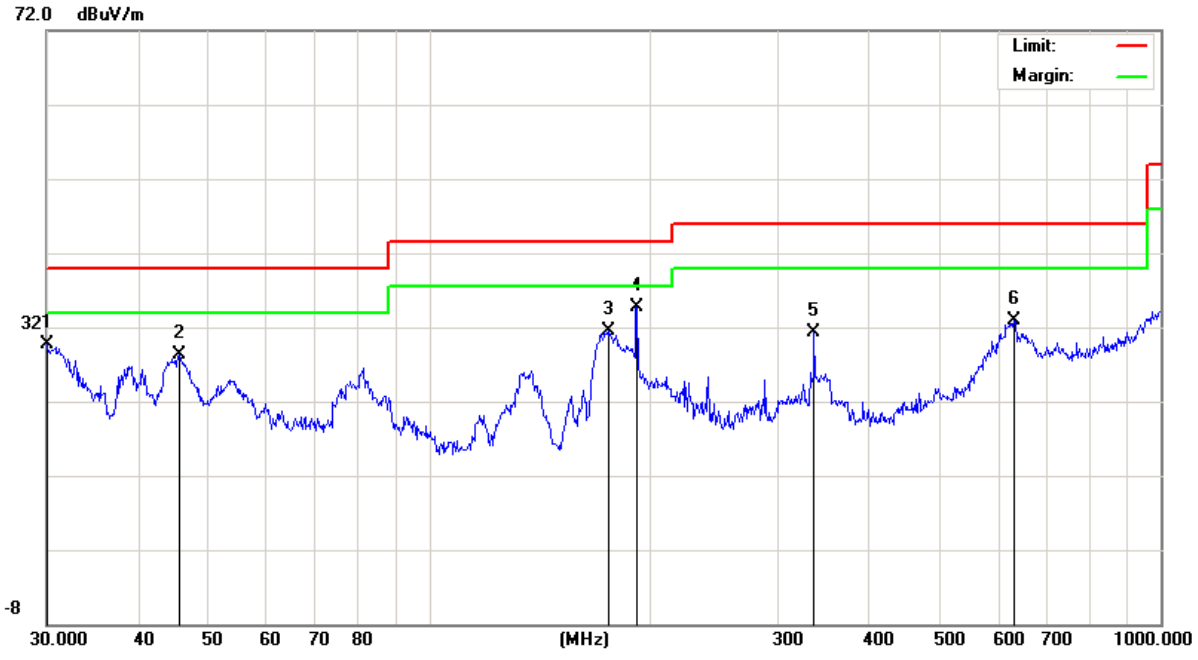
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	30.0000	10.12	19.57	29.69	40.00	-10.31	QP
V	45.5347	17.17	11.09	28.26	40.00	-11.74	QP
V	175.6516	19.32	12.26	31.58	43.50	-11.92	QP
V	192.4182	23.27	11.35	34.62	43.50	-8.88	QP
V	336.0350	17.45	13.82	31.27	46.00	-14.73	QP
V	629.4772	12.90	19.93	32.83	46.00	-13.17	QP

Remark:

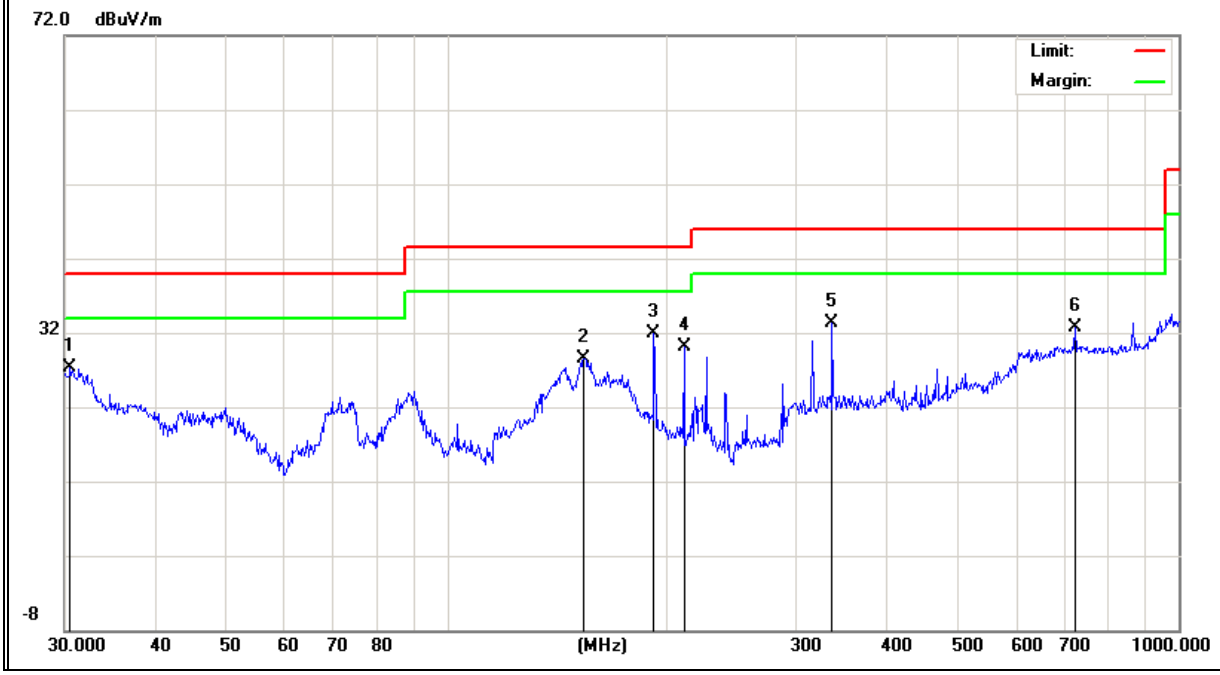
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	30.5304	7.85	19.38	27.23	40.00	-12.77	QP
H	153.7384	16.67	11.83	28.50	43.50	-15.00	QP
H	191.7450	20.54	11.34	31.88	43.50	-11.62	QP
H	210.7860	19.04	11.02	30.06	43.50	-13.44	QP
H	336.0350	19.55	13.82	33.37	46.00	-12.63	QP
H	721.7259	11.21	21.44	32.65	46.00	-13.35	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (2412 MHz)-Above 1G							
Vertical	4824.256	53.69	10.44	64.13	74.00	-9.87	Pk
Vertical	4824.256	33.25	10.44	43.69	54.00	-10.31	Av
Vertical	7236.187	49.76	12.39	62.15	74.00	-11.85	Pk
Vertical	7236.187	31.45	12.39	43.84	54.00	-10.16	Av
Horizontal	4824.291	51.48	10.44	61.92	74.00	-12.08	Pk
Horizontal	4824.291	30.22	10.44	40.66	54.00	-13.34	Av
Horizontal	7236.103	46.97	12.39	59.36	74.00	-14.64	Pk
Horizontal	7236.103	30.01	12.39	42.40	54.00	-11.60	Av
Mid Channel (2437 MHz)-Above 1G							
Vertical	4874.145	54.16	10.40	64.56	74.00	-9.44	Pk
Vertical	4874.145	32.68	10.40	43.08	54.00	-10.92	Av
Vertical	7311.248	46.55	12.75	59.30	74.00	-14.70	Pk
Vertical	7311.248	32.63	12.75	45.38	54.00	-8.62	Av
Horizontal	4874.323	53.24	10.40	63.64	74.00	-10.36	Pk
Horizontal	4874.323	31.29	10.40	41.69	54.00	-12.31	Av
Horizontal	7311.462	48.96	12.75	61.71	74.00	-12.29	Pk
Horizontal	7311.462	31.21	12.75	43.96	54.00	-10.04	Av
High Channel (2462 MHz)- Above 1G							
Vertical	4924.199	51.92	10.39	62.31	74.00	-11.69	Pk
Vertical	4924.199	32.14	10.39	42.53	54.00	-11.47	Av
Vertical	7386.096	46.74	12.68	59.42	74.00	-14.58	Pk
Vertical	7386.096	29.79	12.68	42.47	54.00	-11.53	Av
Horizontal	4924.233	51.23	10.39	61.62	74.00	-12.38	Pk
Horizontal	4924.233	30.56	10.39	40.95	54.00	-13.05	Av
Horizontal	7386.265	49.77	12.68	62.45	74.00	-11.55	Pk
Horizontal	7386.265	33.06	12.68	45.74	54.00	-8.26	Av

Note:”802.11b” mode is the worst mode.

4. POWER SPECTRAL DENSITY TEST

4.1 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

4.1.1 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. 3 kHz ≤Set the RBW≤100 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 within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP

4.1.4 EUT OPERATION CONDITIONS

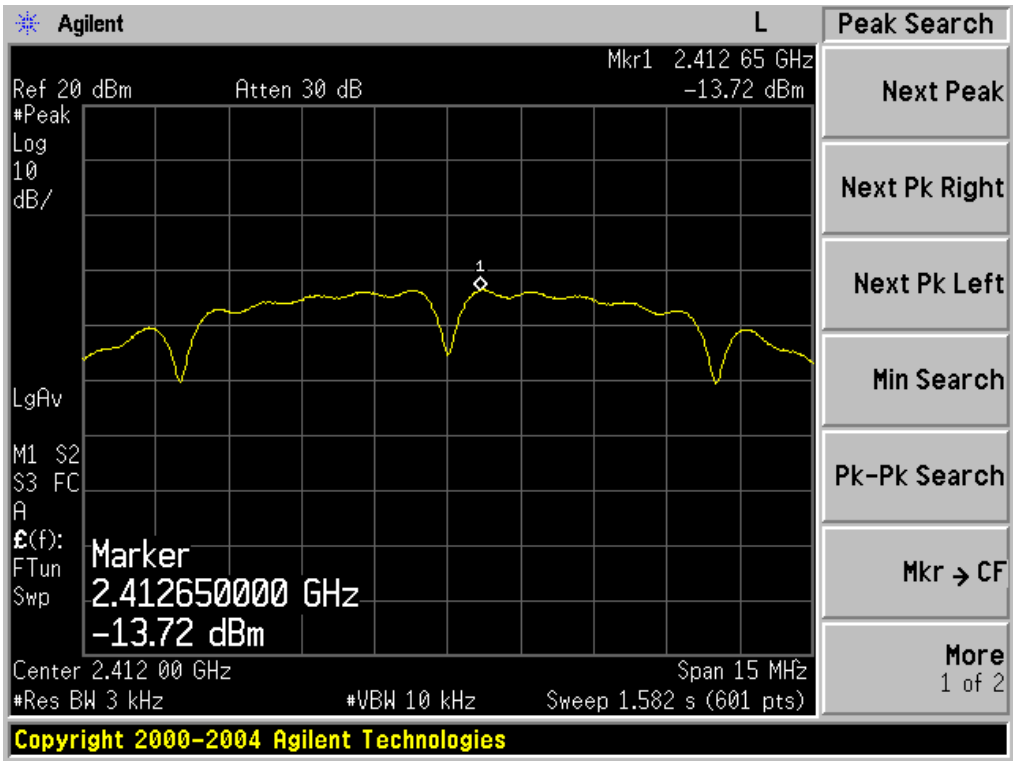
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

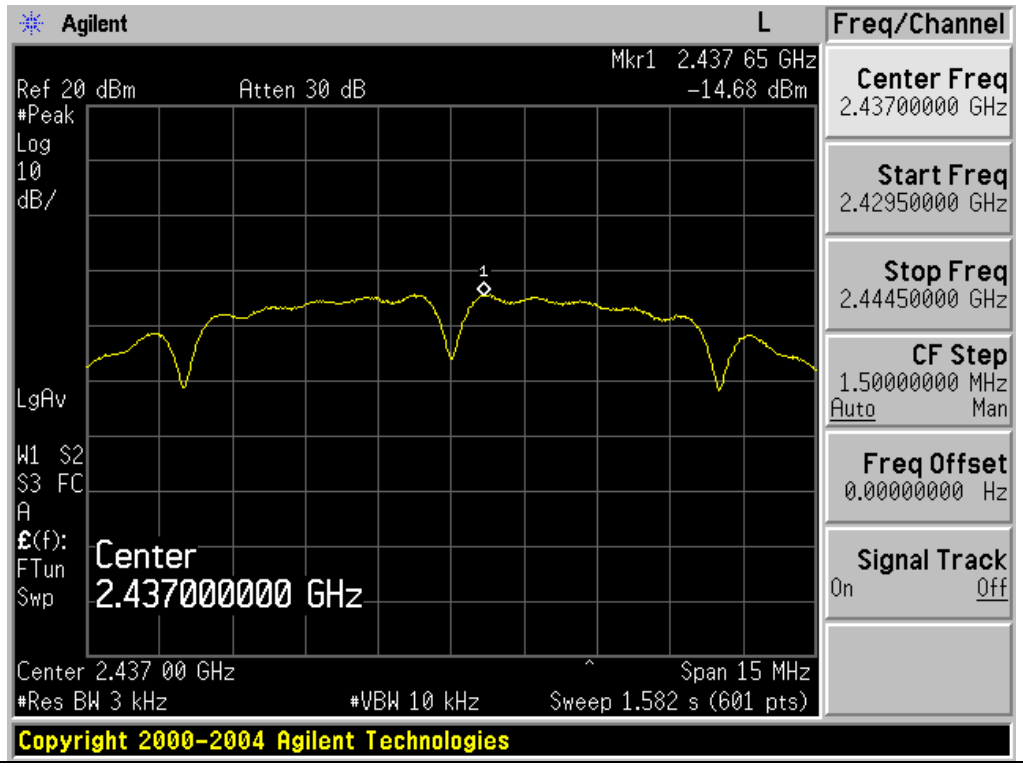
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-13.72	8	PASS
2437 MHz	-14.68	8	PASS
2462 MHz	-15.40	8	PASS

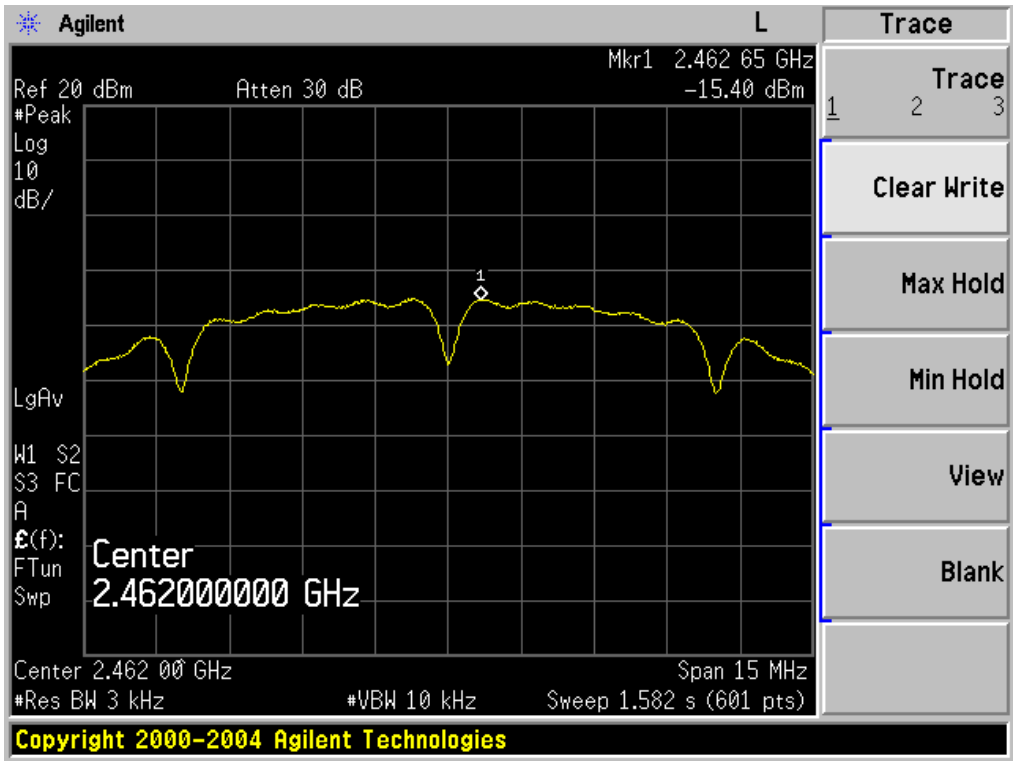
TX CH01



TX CH06



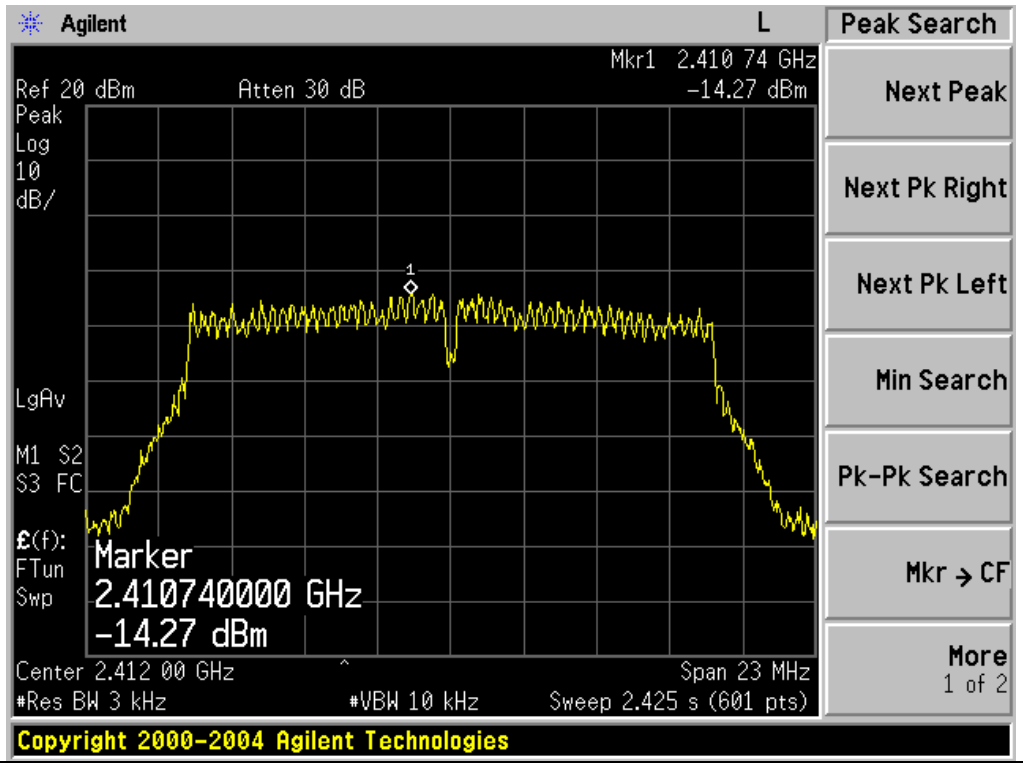
TX CH11



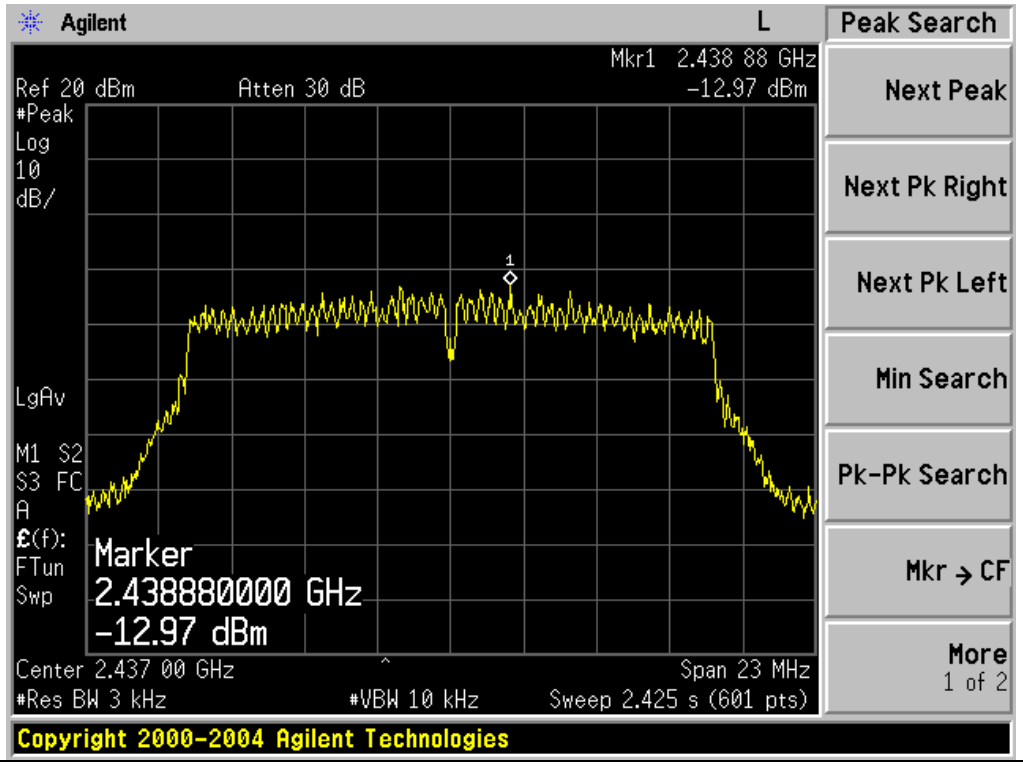
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.27	8	PASS
2437 MHz	-12.97	8	PASS
2462 MHz	-11.72	8	PASS

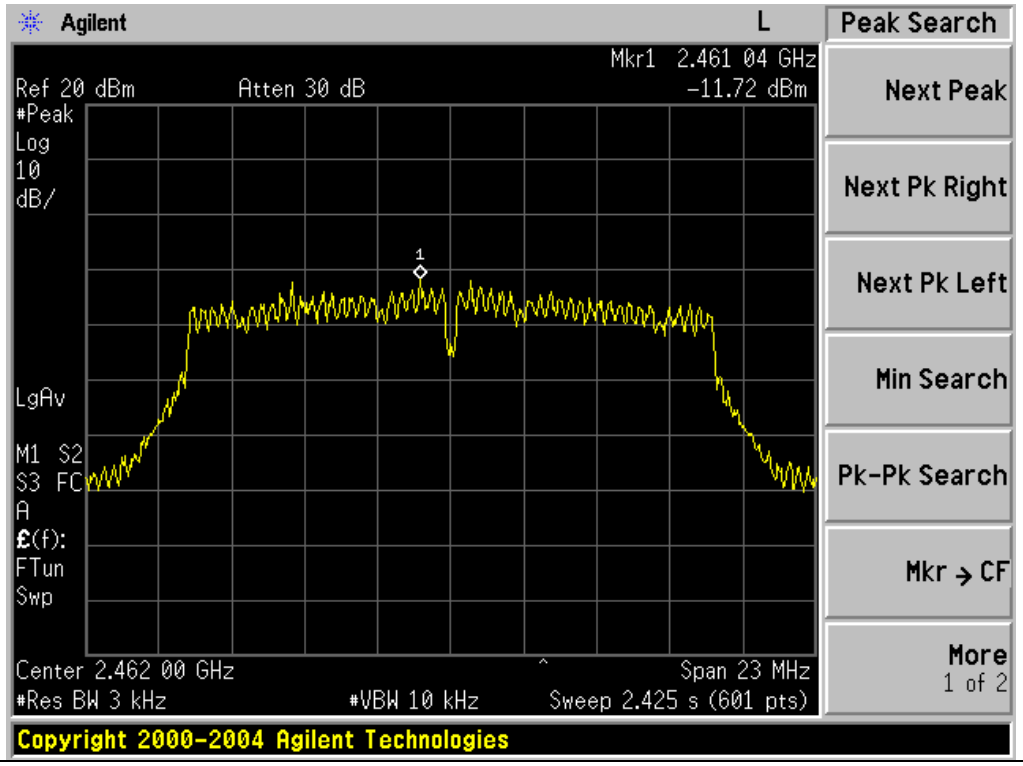
TX CH01



TX CH06



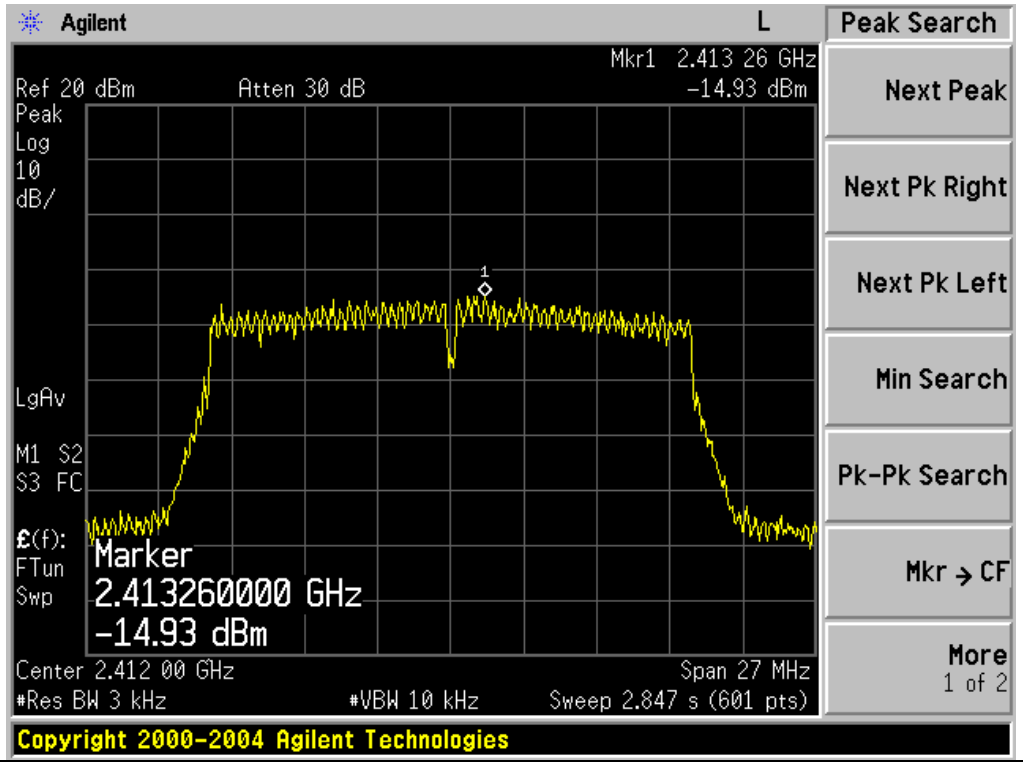
TX CH11



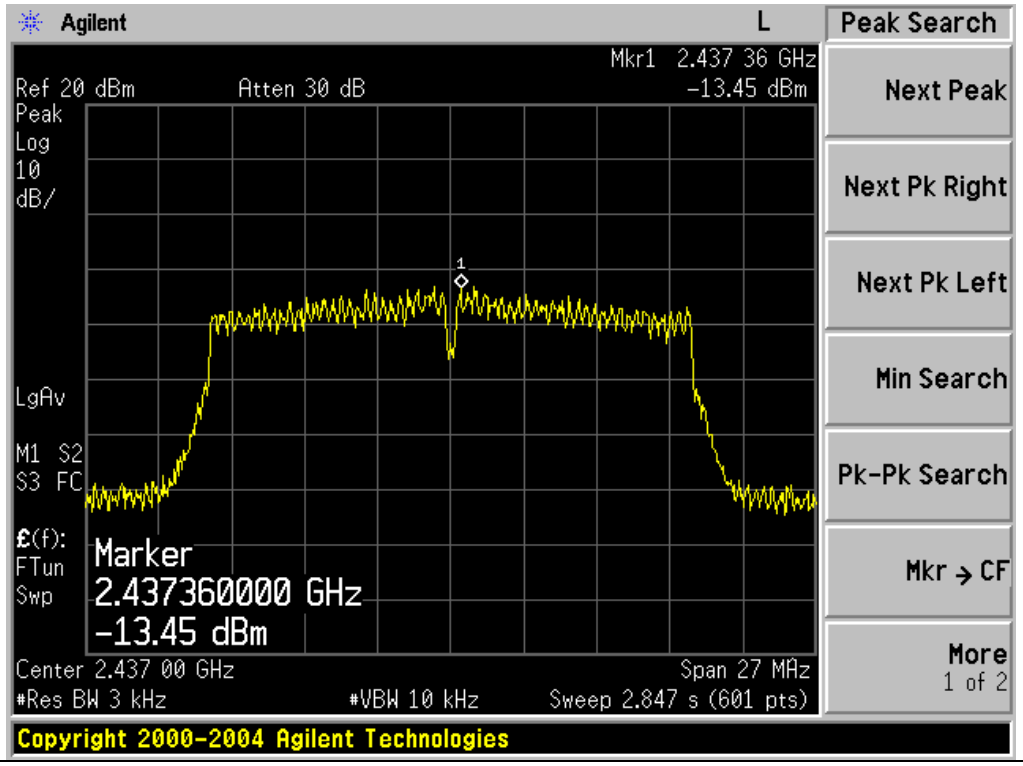
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode (20MHz)/CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.93	8	PASS
2437 MHz	-13.45	8	PASS
2462 MHz	-14.42	8	PASS

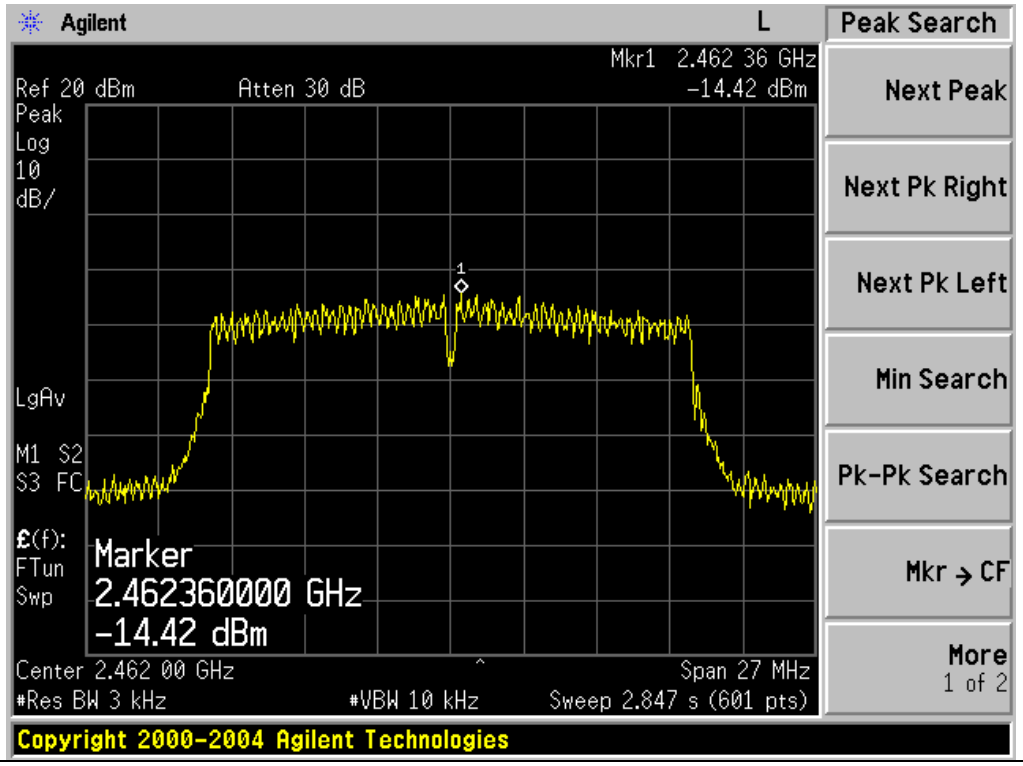
TX CH01



TX CH06



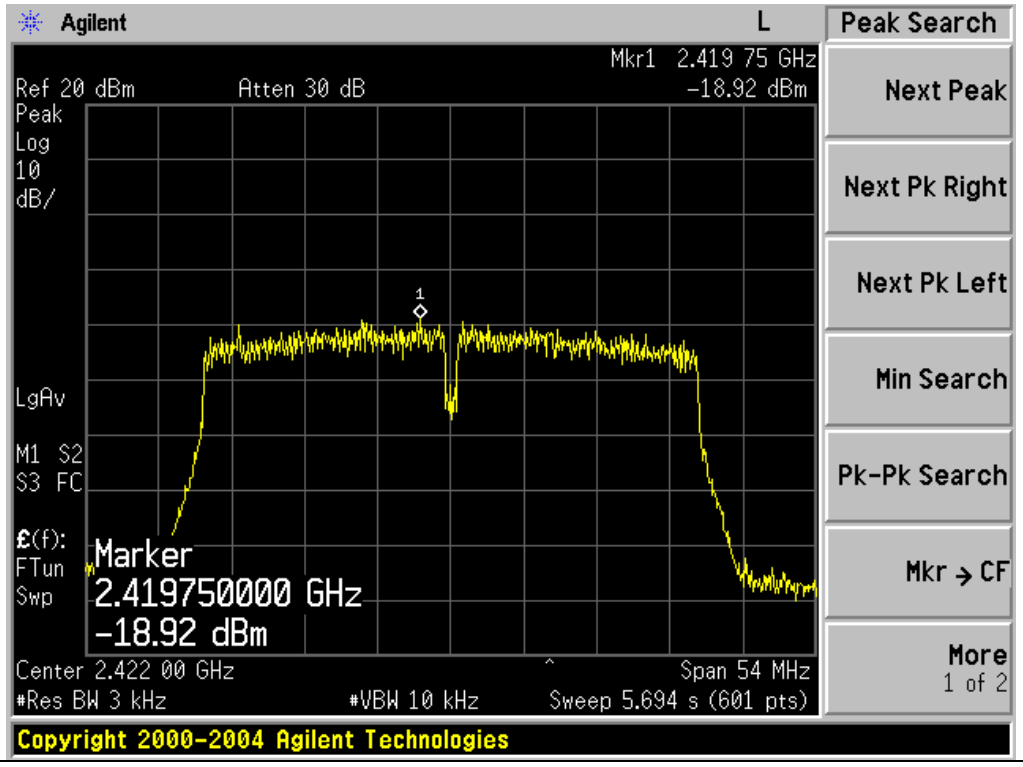
TX CH11



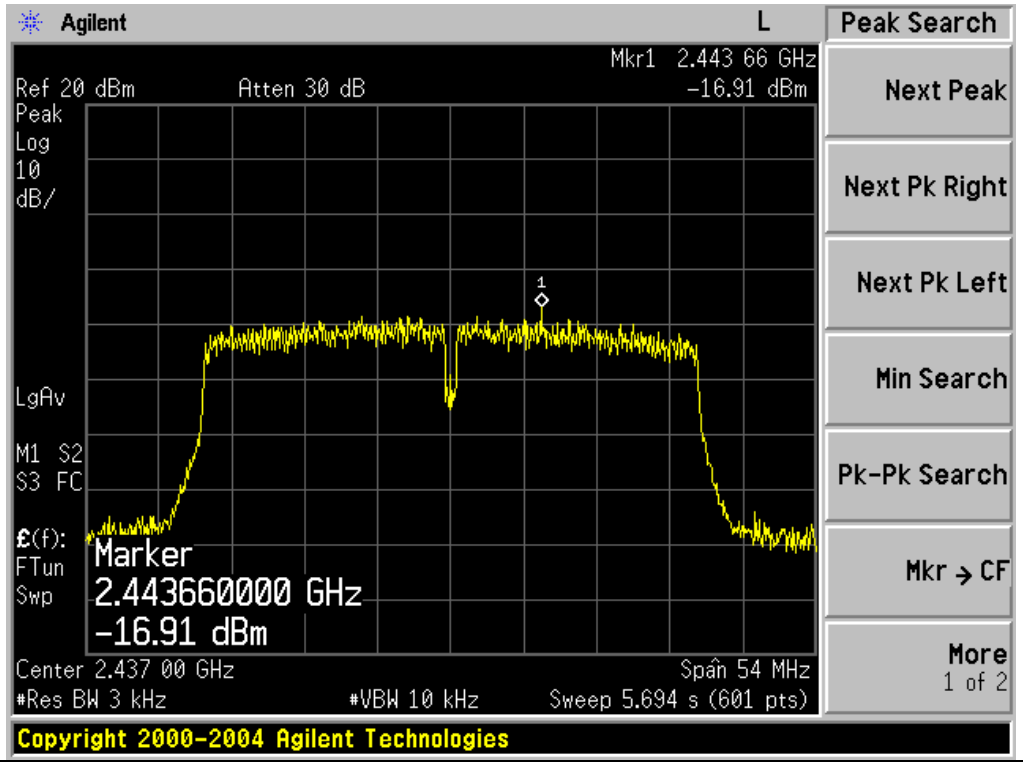
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode (40MHz)/CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-18.92	8	PASS
2437 MHz	-16.91	8	PASS
2452 MHz	-19.49	8	PASS

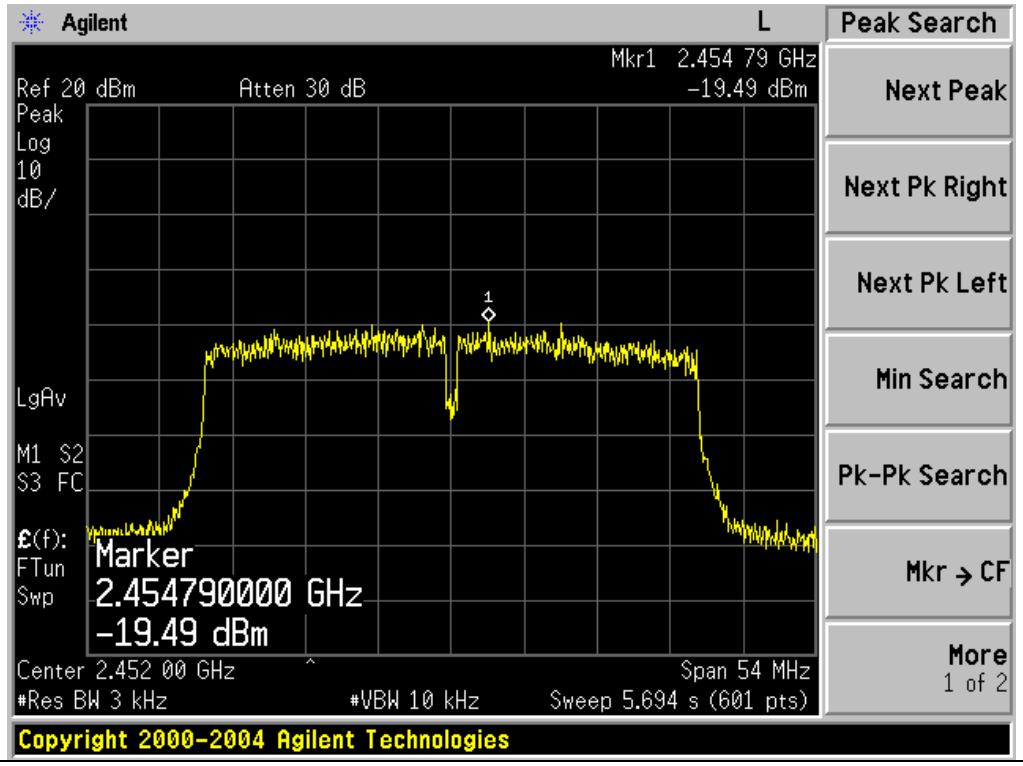
TX CH03



TX CH06



TX CH09



5. BANDWIDTH TEST

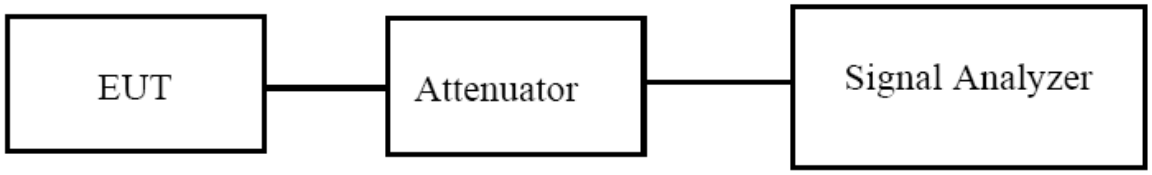
5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x 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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



5.1.2 EUT OPERATION CONDITIONS

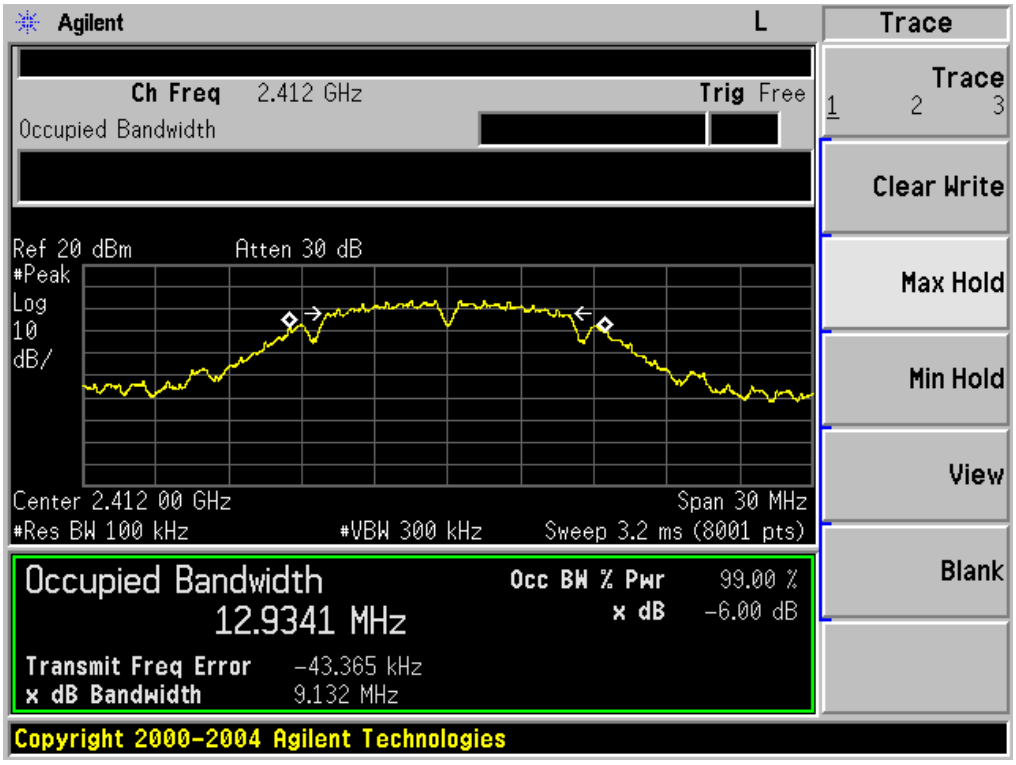
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.3 TEST RESULTS

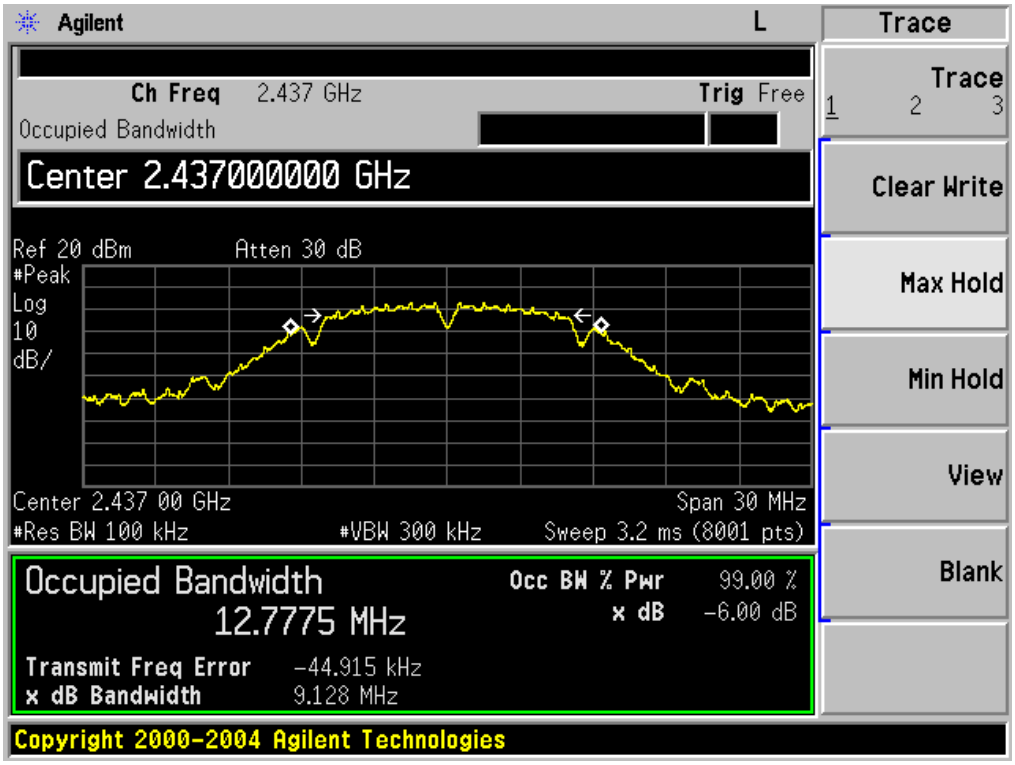
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.132	500	Pass
Middle	2437	9.128	500	Pass
High	2462	9.126	500	Pass

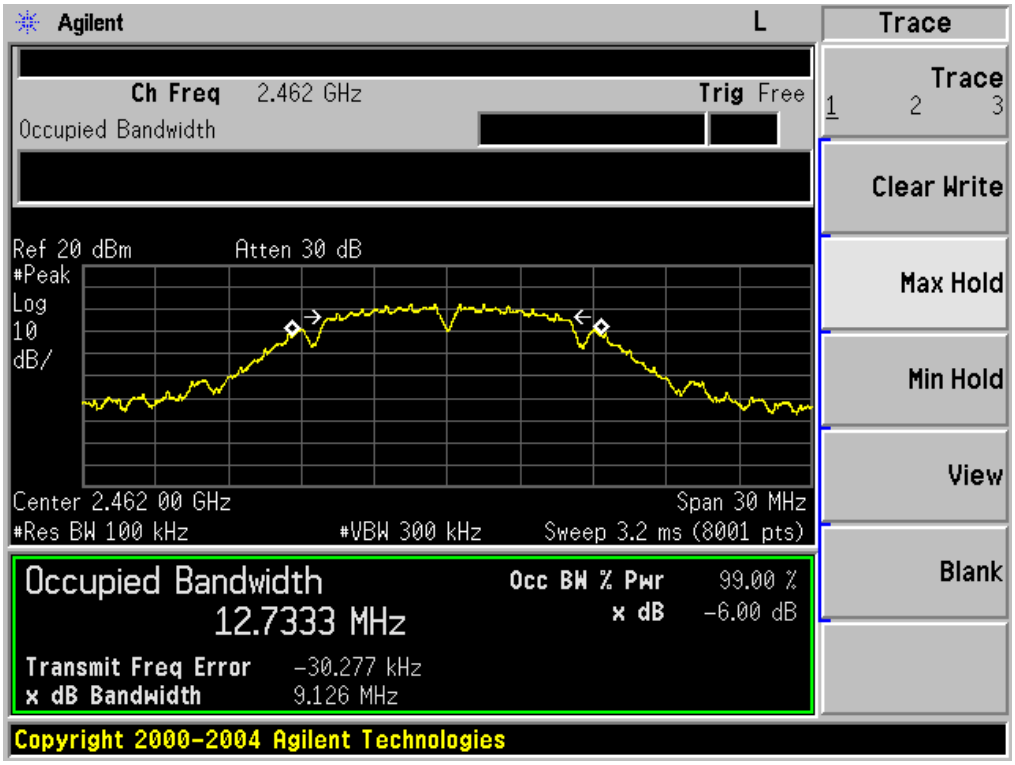
TX CH 01



TX CH 06



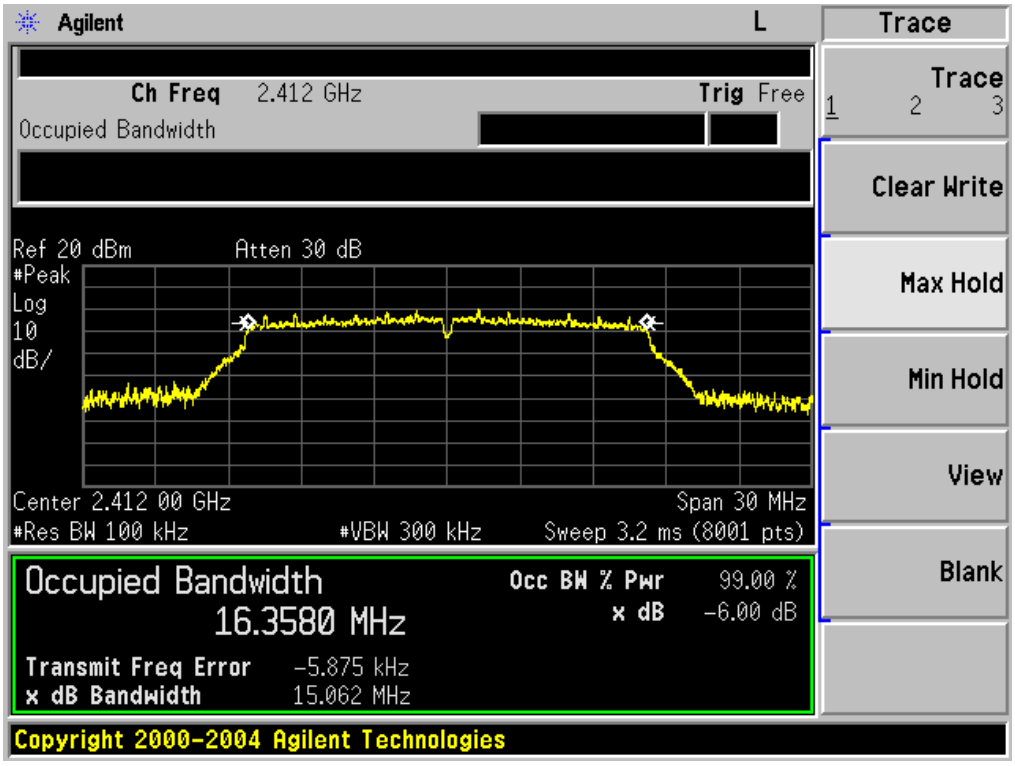
TX CH 11



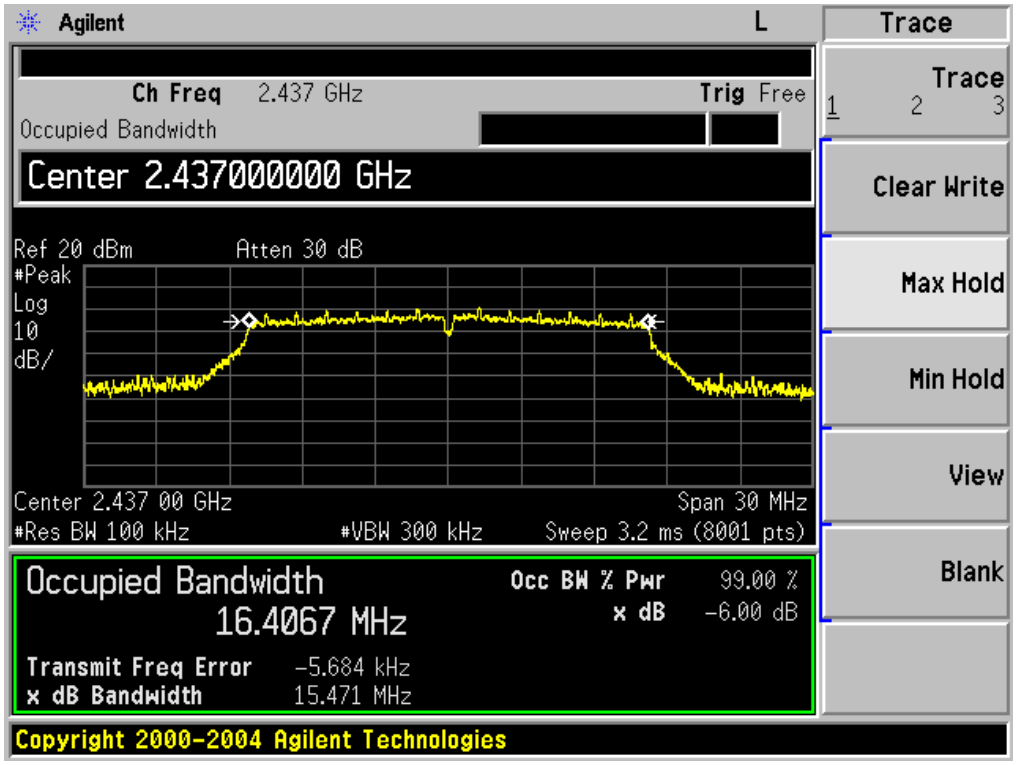
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.062	500	Pass
Middle	2437	15.471	500	Pass
High	2462	15.679	500	Pass

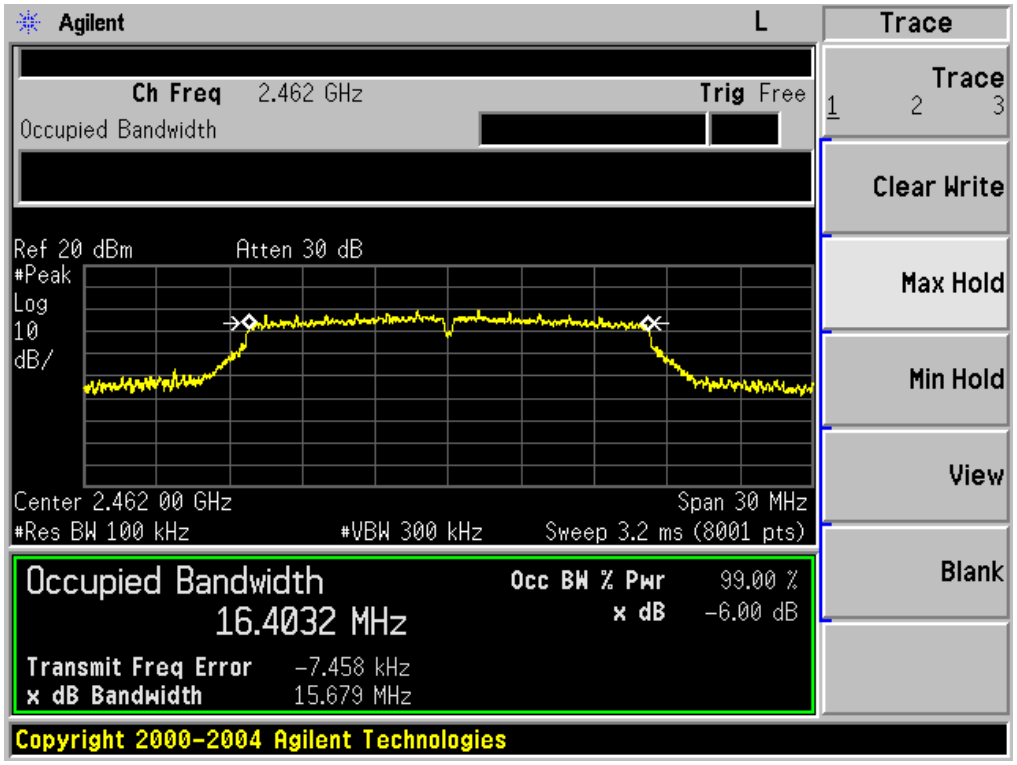
TX CH 01



TX CH 06



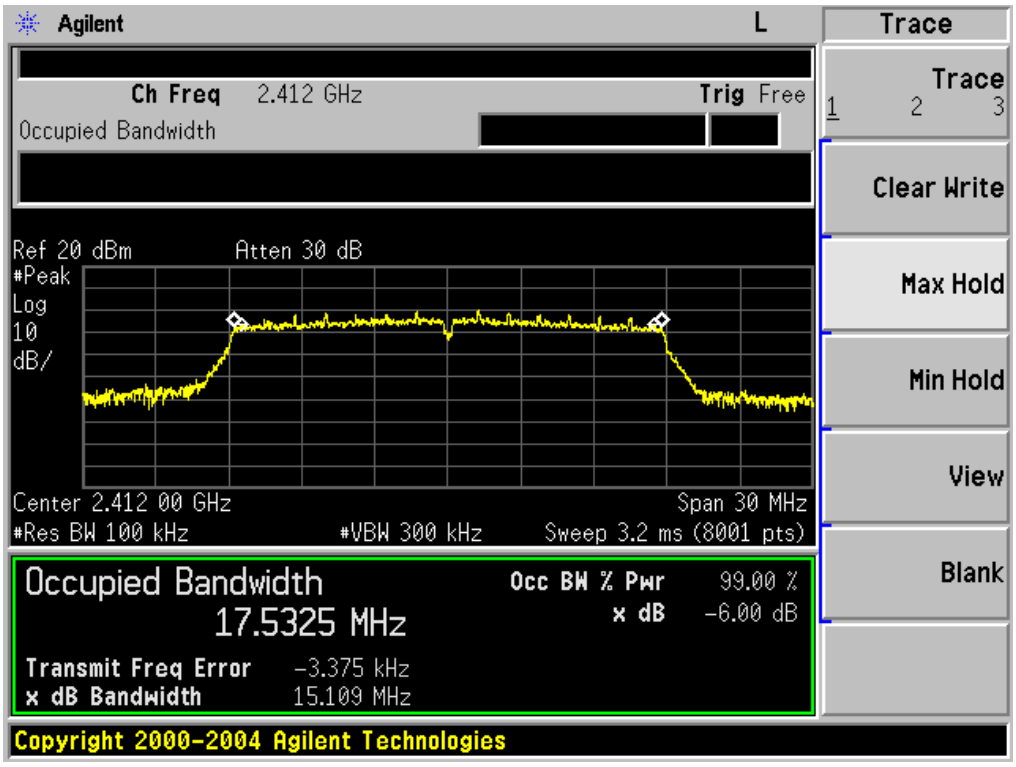
TX CH 11



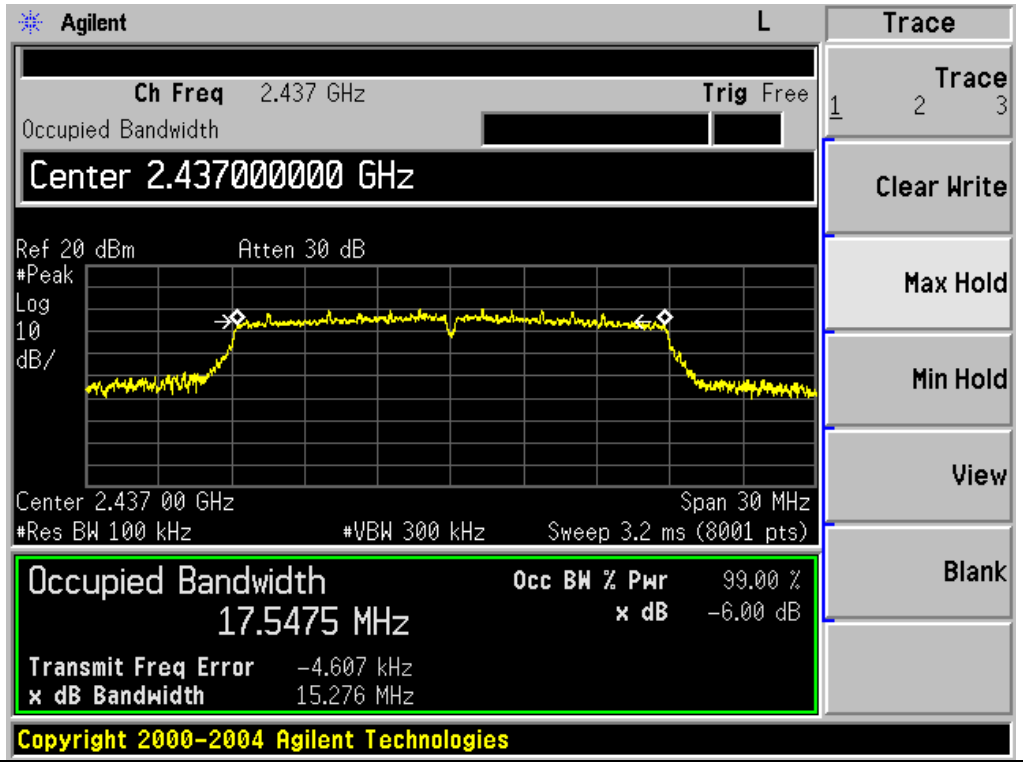
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.109	500	Pass
Middle	2437	15.276	500	Pass
High	2462	17.262	500	Pass

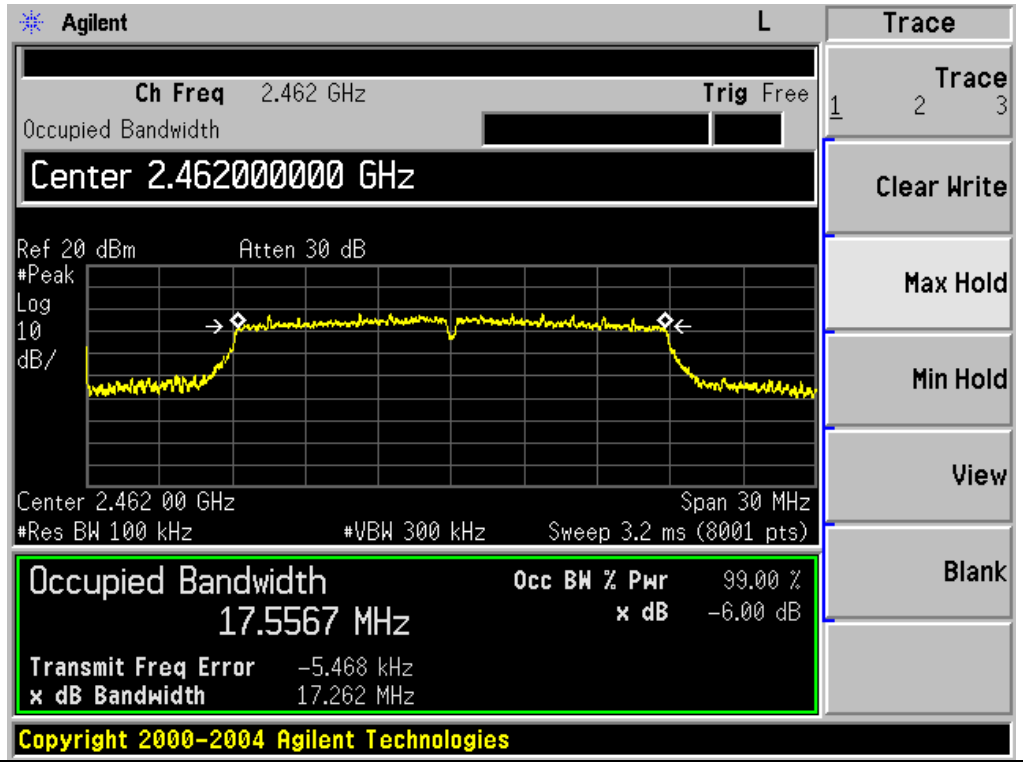
TX CH 01



TX CH 06



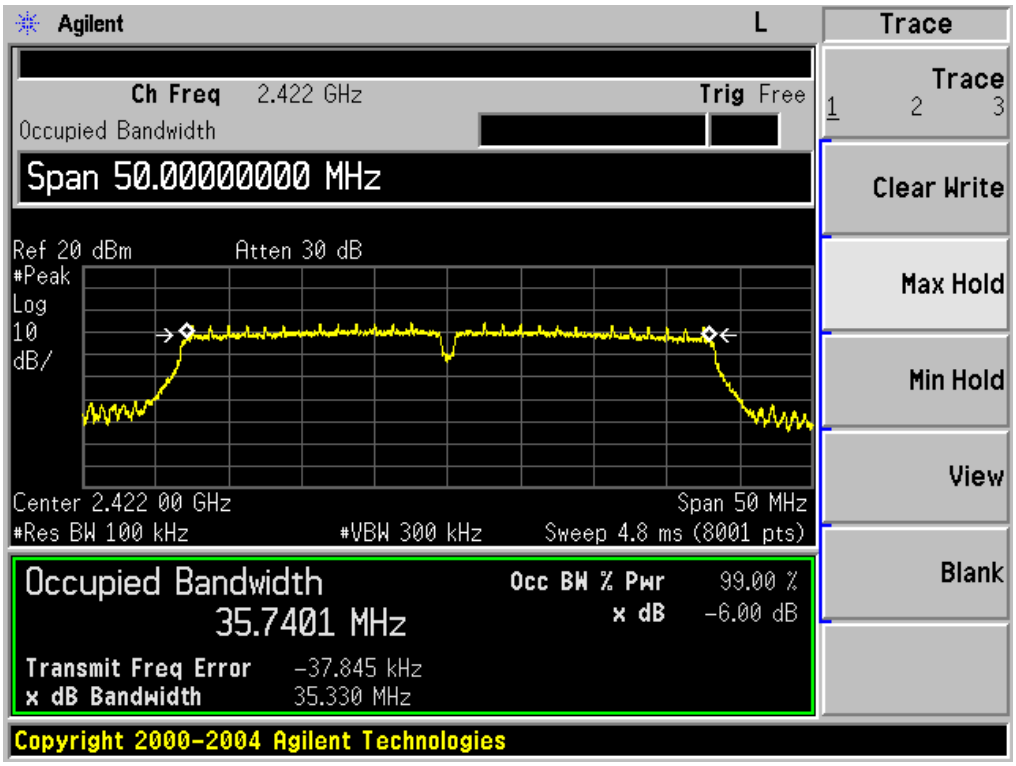
TX CH 11



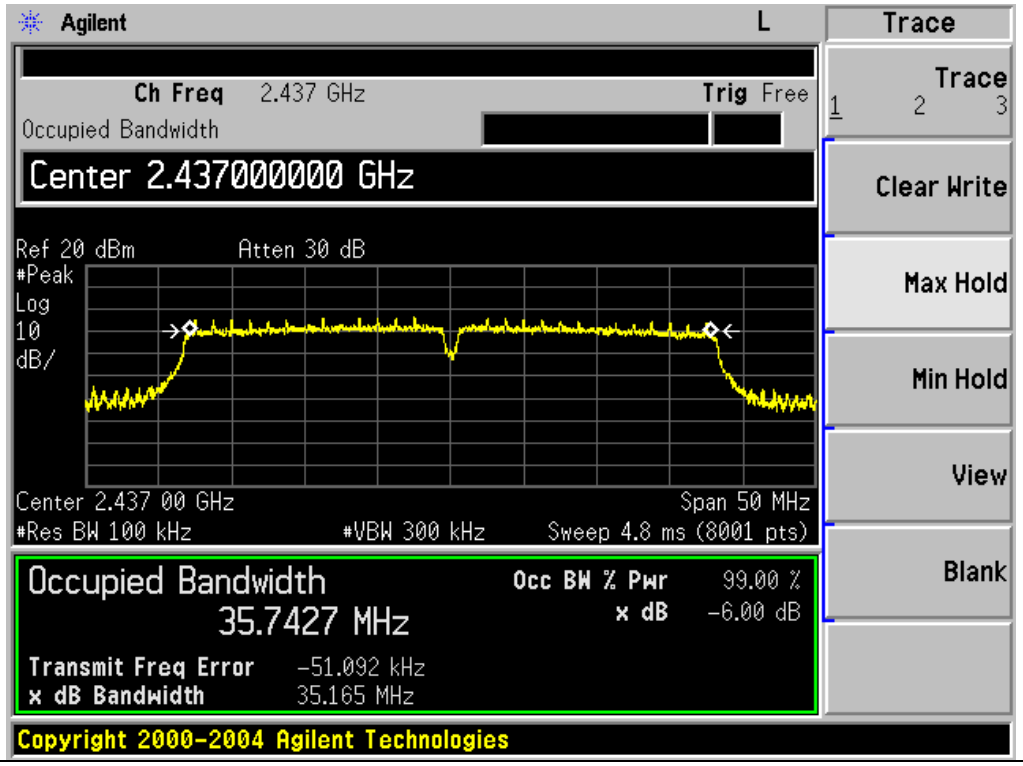
EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.330	500	Pass
Middle	2437	35.165	500	Pass
High	2452	35.140	500	Pass

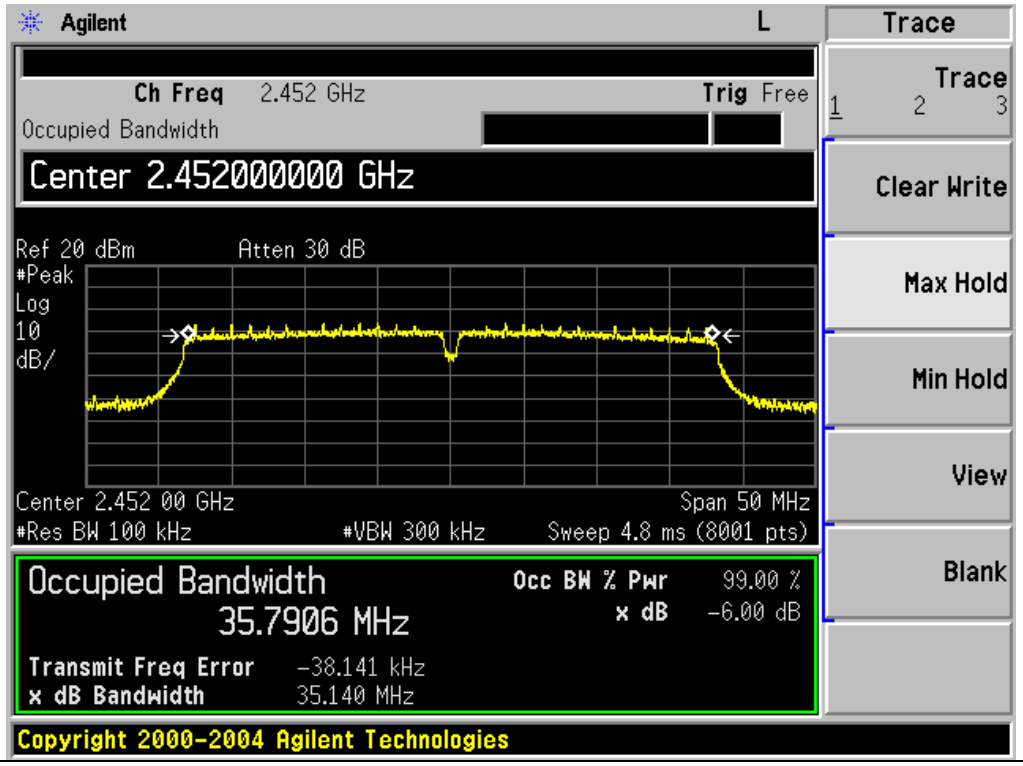
TX CH 03



TX CH 06



TX CH 09



6. PEAK OUTPUT POWER TEST

6.1 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

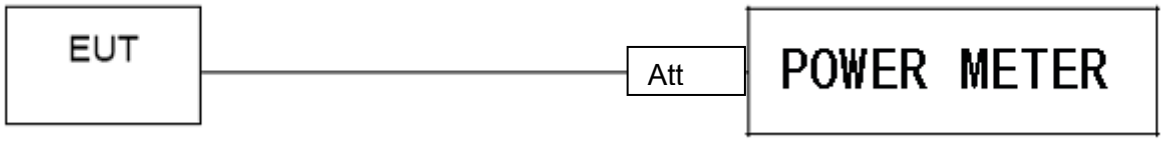
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b/g/n(20M/40M) Mode		

Test Channe	Frequency	Maximum Peak Conducted Output Power（PK）	Maximum Peak Conducted Output Power（AV）	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
TX 802.11b Mode				
CH01	2412	13.5	11.54	30
CH06	2437	13.92	11.96	30
CH11	2462	13.64	11.68	30
TX 802.11g Mode				
CH01	2412	11.93	9.97	30
CH06	2437	11.81	9.85	30
CH11	2462	11.88	9.92	30
TX 802.11n(20) Mode				
CH01	2412	10.53	8.57	30
CH06	2437	10.58	8.62	30
CH11	2462	10.79	8.83	30
TX 802.11n(40) Mode				
CH03	2422	9.78	7.82	30
CH06	2437	9.65	7.69	30
CH09	2452	9.7	7.74	30

7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §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)).

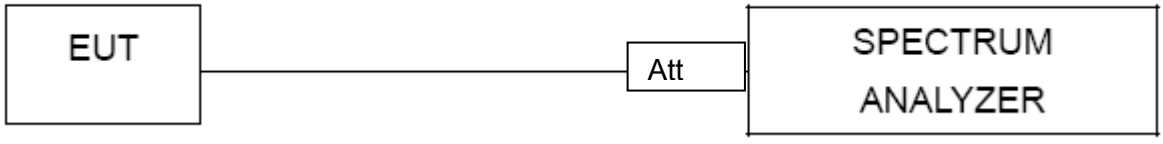
TEST PROCEDURE

a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.4 TEST RESULTS

EUT：	Mobile phone	Model Name ：	MAGIC
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V

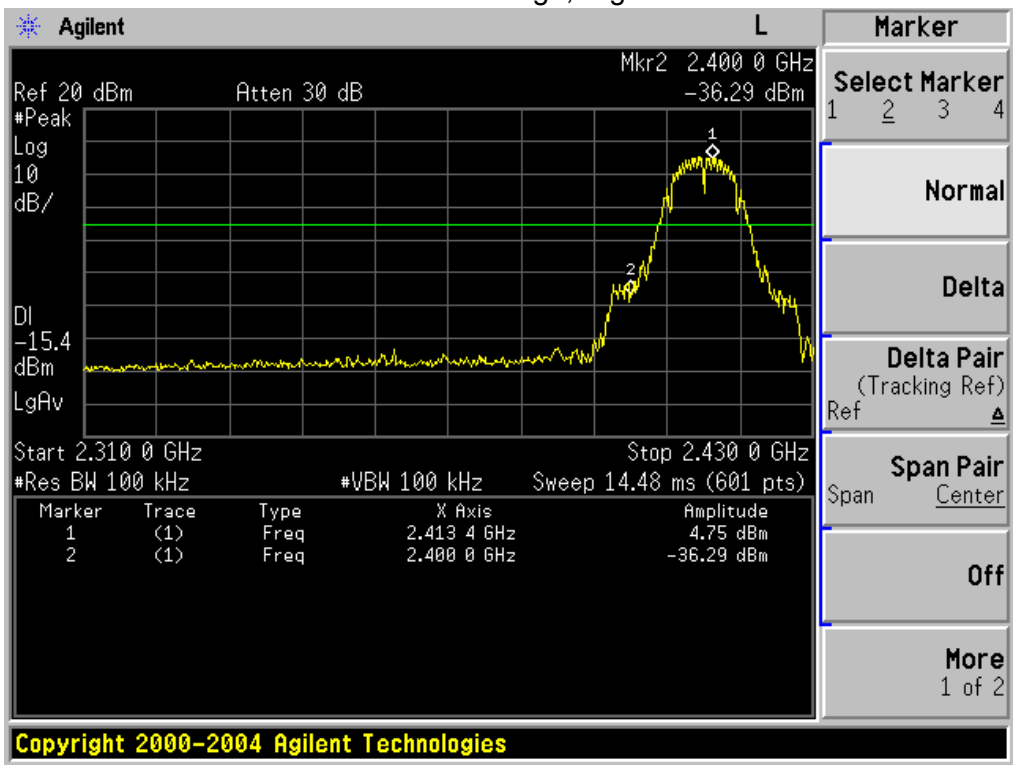
Frequency Band MHz	Delta Peak to band emission (dBc)	＞Limit (dBc)	Result
802.11b mode			
2400	41.04	20	Pass
2483.5	54.95	20	Pass
802.11g mode			
2400	36.48	20	Pass
2483.5	38.02	20	Pass
802.11n-HT20 mode			
2400	33.77	20	Pass
2483.5	37.53	20	Pass
802.11n-HT40 mode			
2400	40.24	20	Pass
2483.5	36.78	20	Pass

Radiated band edge:

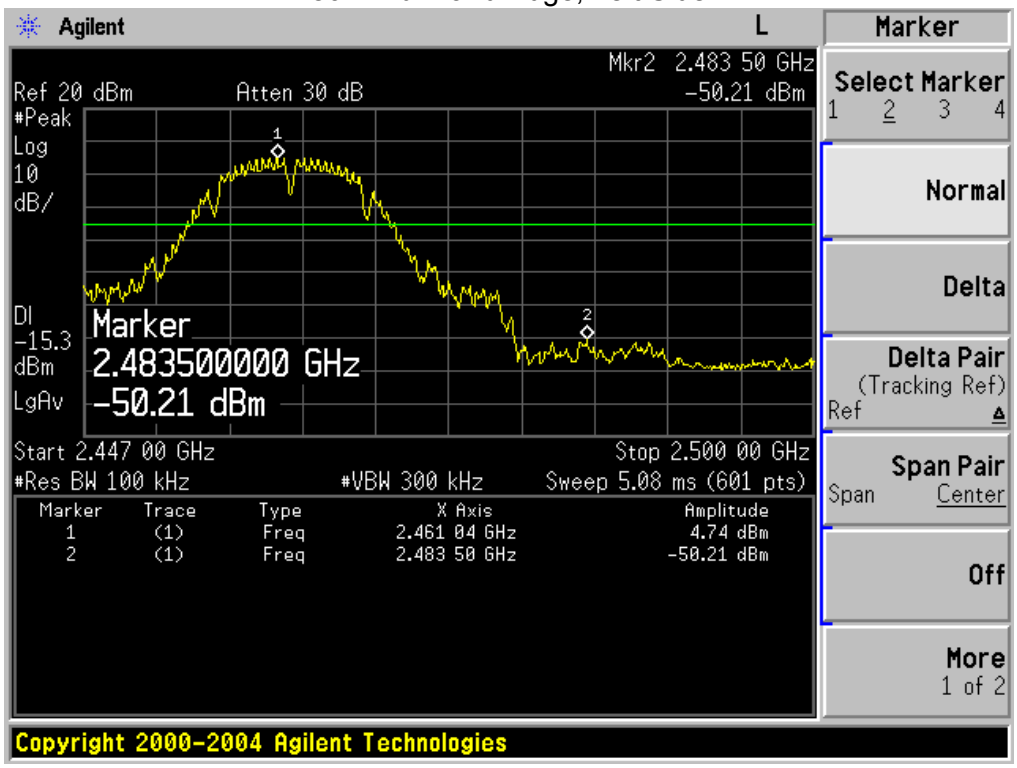
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b							
2390	61.53	-13.06	48.47	74	-25.53	peak	Vertical
2390	58.97	-13.06	45.91	74	-28.09	peak	Horizontal
2483.5	60.41	-12.78	47.63	74	-26.37	peak	Vertical
2483.5	61.29	-12.78	48.51	74	-25.49	peak	Horizontal
802.11g							
2390	59.32	-13.06	46.26	74	-27.74	peak	Vertical
2390	59.67	-13.06	46.61	74	-27.39	peak	Horizontal
2483.5	59.12	-12.78	46.34	74	-27.66	peak	Vertical
2483.5	60.35	-12.78	47.57	74	-26.43	peak	Horizontal
802.11n（20）							
2390	60.08	-13.06	47.02	74	-26.98	peak	Vertical
2390	61.36	-13.06	48.3	74	-25.70	peak	Horizontal
2483.5	60.95	-12.78	48.17	74	-25.83	peak	Vertical
2483.5	61.22	-12.78	48.44	74	-25.56	peak	Horizontal
802.11n（40）							
2390	60.33	-13.06	47.27	74	-26.73	peak	Vertical
2390	61.42	-13.06	48.36	74	-25.64	peak	Horizontal
2483.5	61.87	-12.78	49.09	74	-24.91	peak	Vertical
2483.5	60.86	-12.78	48.08	74	-25.92	peak	Horizontal

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

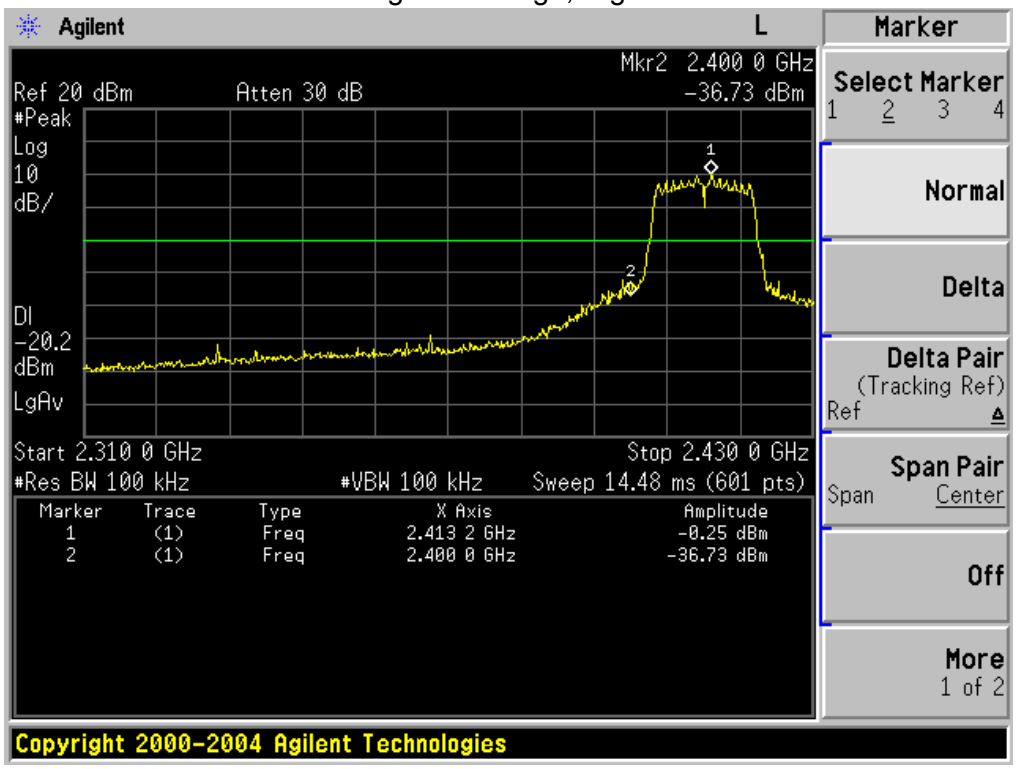
802.11b: Band Edge, Right Side



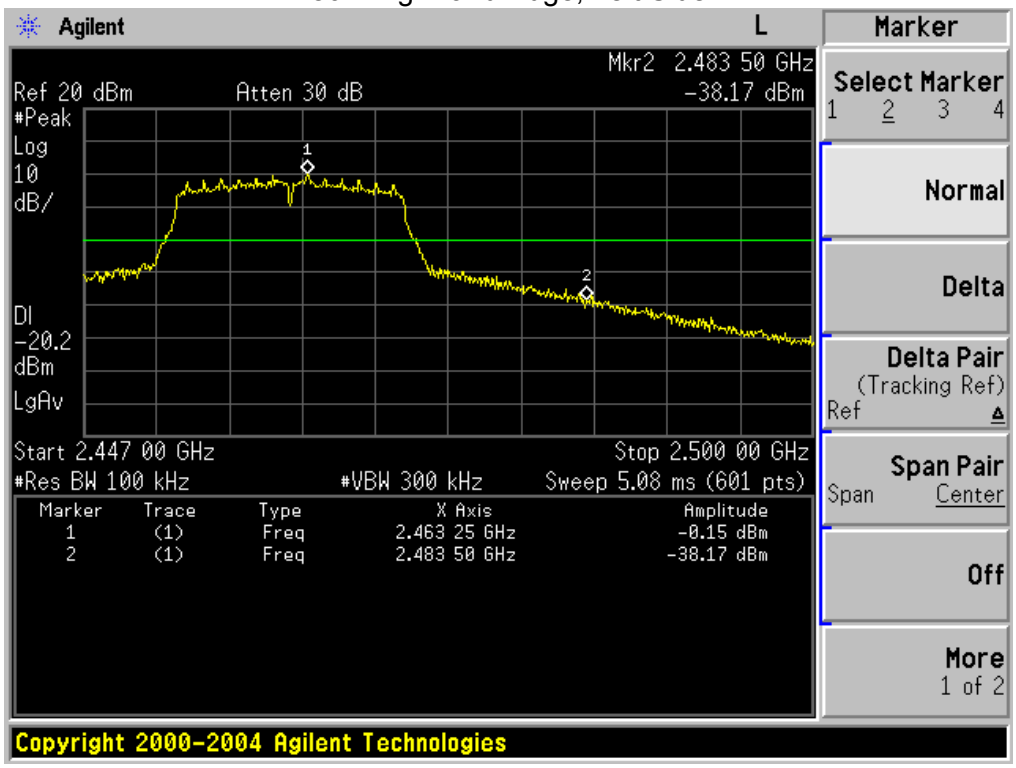
802.11b: Band Edge, Left Side



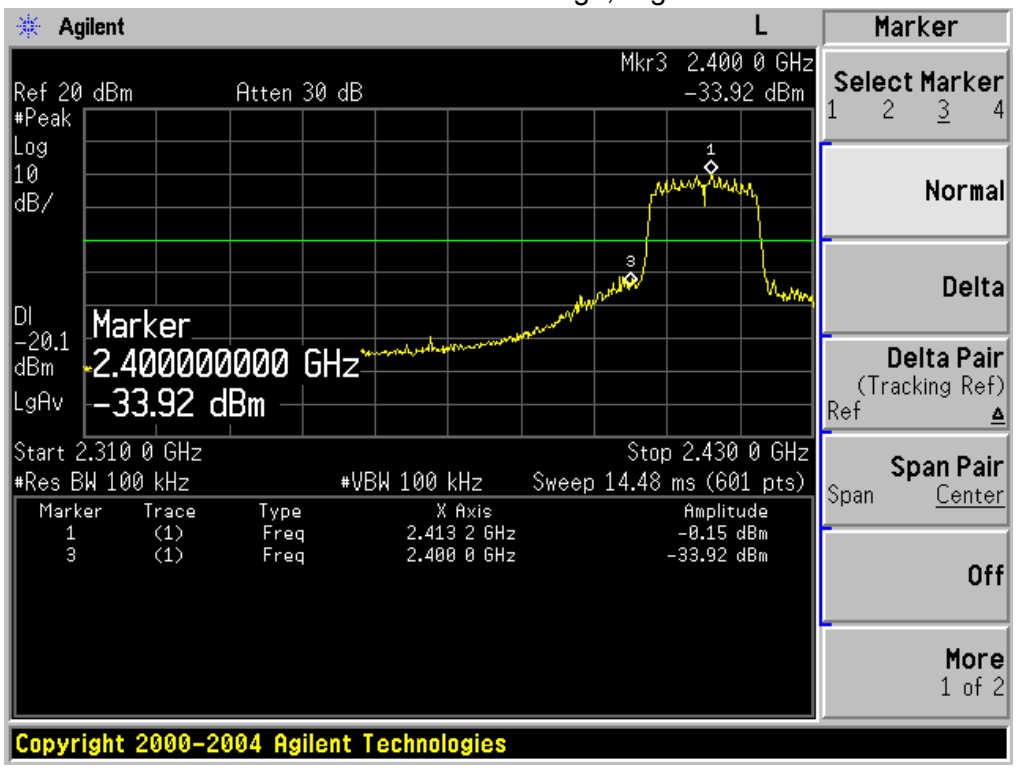
802.11g: Band Edge, Right Side



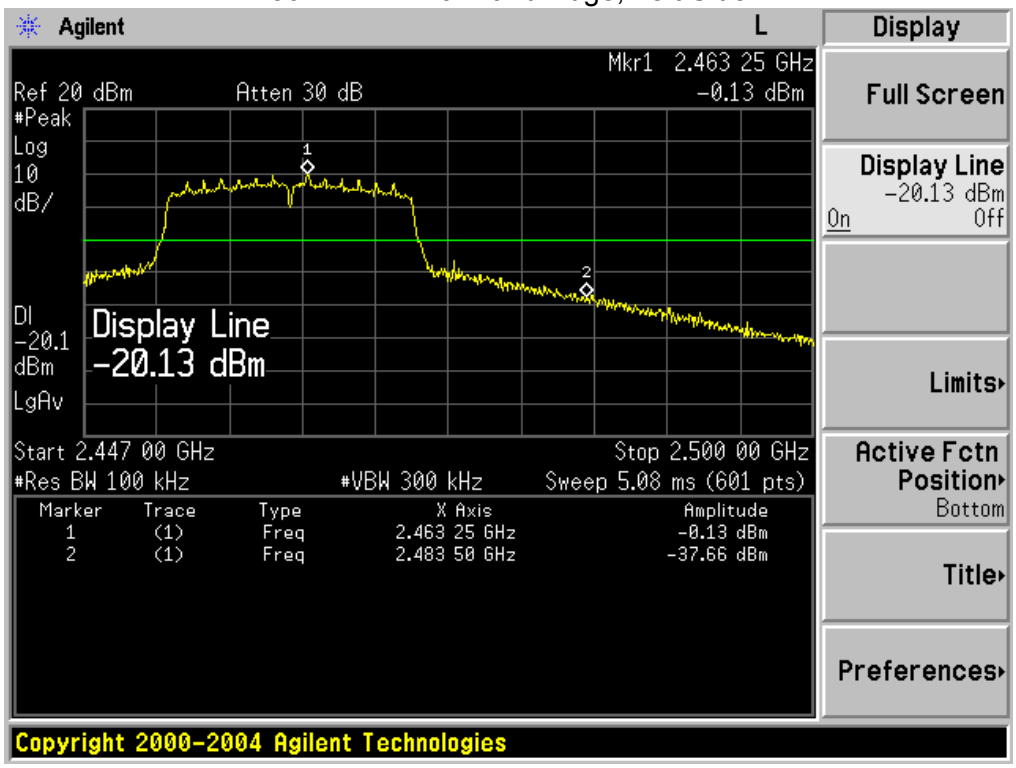
802.11g: Band Edge, Left Side



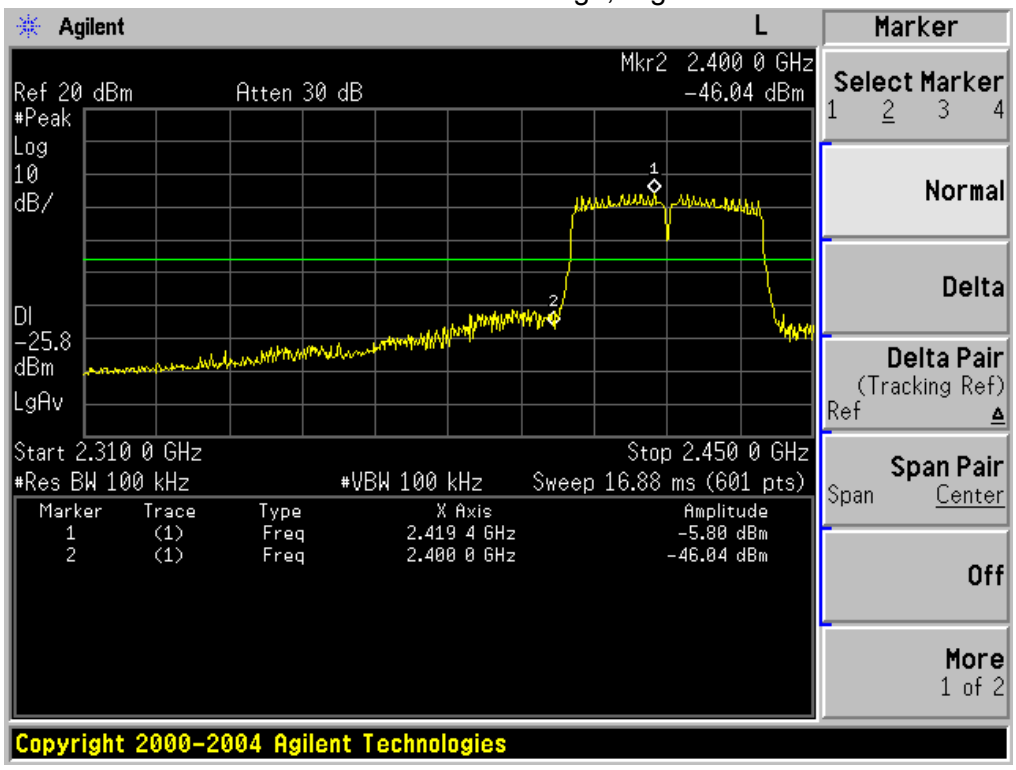
802.11n-HT20: Band Edge, Right Side



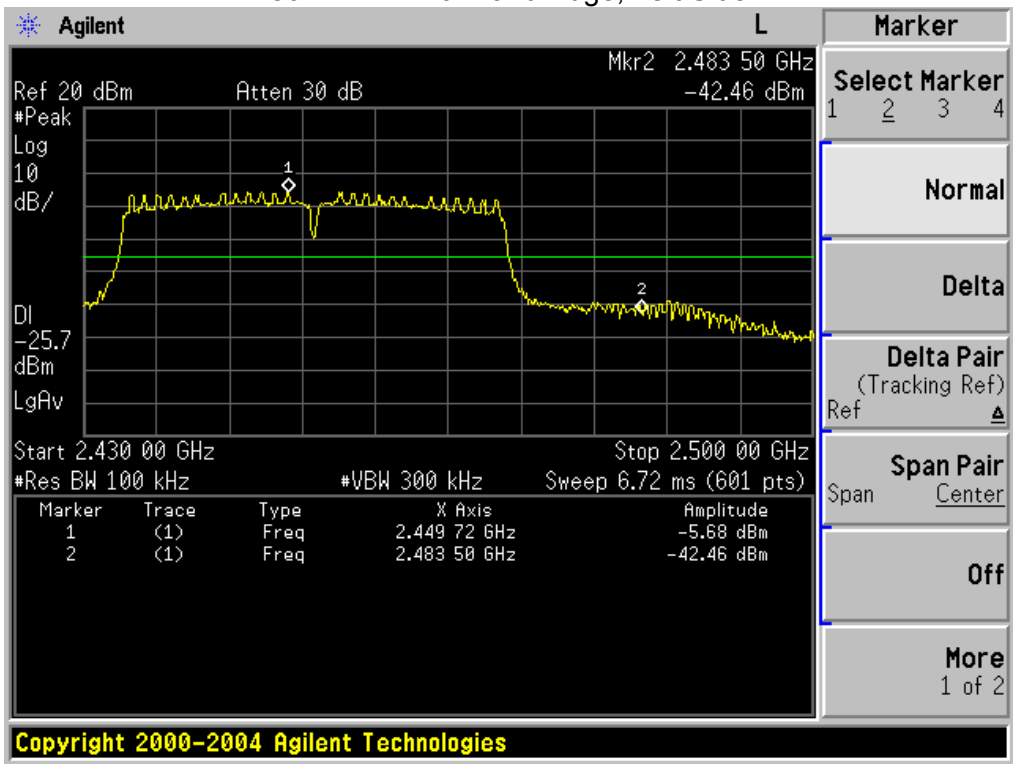
802.11n-HT20: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

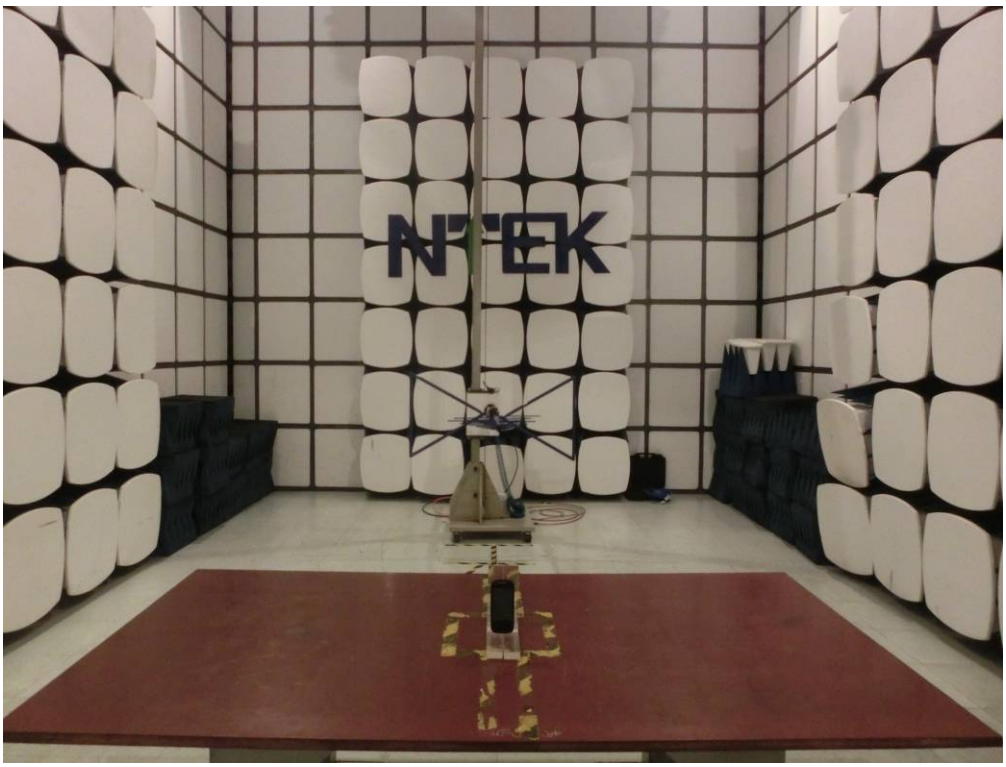
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

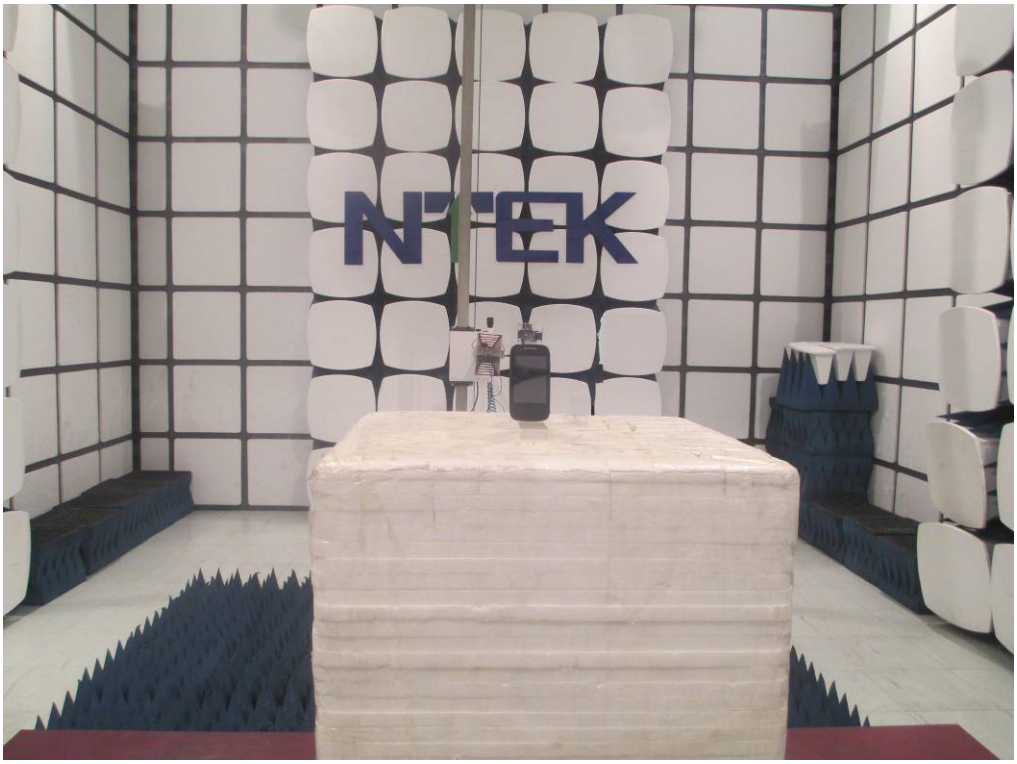
8.2 EUT ANTENNA

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

9. EUT TEST PHOTO

Radiated Measurement Photos





CONDUCTED EMISSION Photos