

FCC RADIO TEST REPORT-BT FCC ID:2ACDFMAGIC

Product: Mobile phone

Trade Name: Superinworld

Model Name: MAGIC

Serial Model: L26

Report No.: NTEK-2015NT09012607F2

Prepared for

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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

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

Test Result...... Pass

Testing Engineer : Eileen Wu.

(Lilcon Lic

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(Brown Lu)

Authorized Signatory: Sam. Chew

(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	lest Item			
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(b)(1)	Peak Output Power	PASS		
15.247(c)	Radiated Spurious Emission	PASS		
15.247(a)(iii)	Number of Hopping Frequency	PASS		
15.247(a)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	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 $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

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	Mobile phone		
Trade Name	Superinworld		
Model Name	MAGIC		
Serial Model	L26		
Model Difference	All the model are the same except the model name an	·	
	The EUT is a Mobile phone Operation Frequency: 2402~2480 MHz Modulation Type: BT(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK		
Product Description	Bit Rate of Transmitter	BT EDR(3Mbps): 8-DPSK 1Mbps/2Mbps/3Mbps	
	Number Of Channel	79 CH	
	Antenna Designation:	Please see Note 3.	
Channel List	Please refer to the Note 2.		
	Mode:KA25-0501000US		
Adapter	Input: 100-240V~, 50/60Hz, 0.25A Max		
	Output: 5.0V, 1000mA		
Battery	DC 3.7V,1800mAh		
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				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

.

Table for Filed Antenna

able for tilled Africalita						
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB Antenna	N/A	1.0	BT 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	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	normal link

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For Conducted Emission			
Final Test Mode Description			
Mode 4	normal link		

For Radiated Emission			
Final Test Mode Description			
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3) The data rate was set in 3Mbps for radiated emission due to the highest RF output power.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: Broadcom			
Frequency	2402 MHz 2441 MHz 2480 MHz			
Parameters(1/2/3Mbps)	DEF	DEF	DEF	

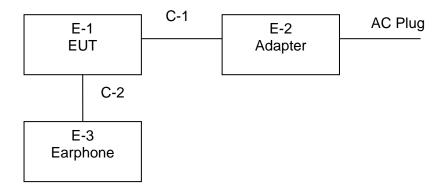


2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test





2.5 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	Mfr/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 <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment		•		calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	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	2015.06.08	2016.06.07	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
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n 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	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year

1 Attenuation MCE 24-10-34 BN9258 2015.06.08 201	2016.06.07 1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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



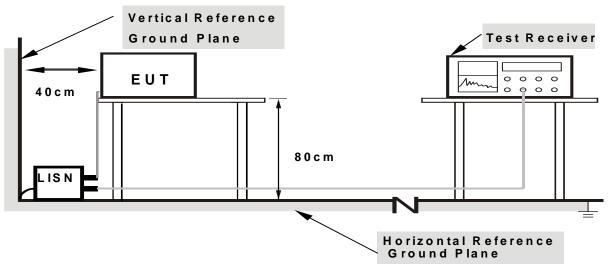
3.1.2 TEST PROCEDURE

- 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.

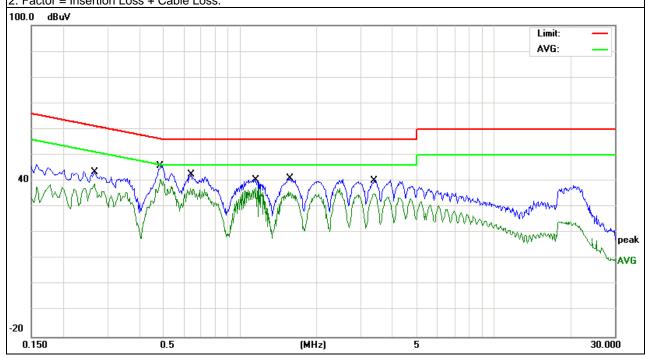


3.1.6 TEST RESULTS

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 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demont
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2660	34.14	9.62	43.76	61.24	-17.48	QP
0.2660	29.28	9.62	38.90	51.24	-12.34	AVG
0.4860	36.30	9.68	45.98	56.24	-10.26	QP
0.4860	30.92	9.68	40.60	46.24	-5.64	AVG
0.6380	32.84	9.65	42.49	56.00	-13.51	QP
0.6380	27.57	9.65	37.22	46.00	-8.78	AVG
1.1539	31.26	9.60	40.86	56.00	-15.14	QP
1.1539	27.92	9.60	37.52	46.00	-8.48	AVG
1.5540	31.42	9.57	40.99	56.00	-15.01	QP
1.5540	26.28	9.57	35.85	46.00	-10.15	AVG
3.3660	30.85	9.51	40.36	56.00	-15.64	QP
3.3660	25.61	9.51	35.12	46.00	-10.88	AVG

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

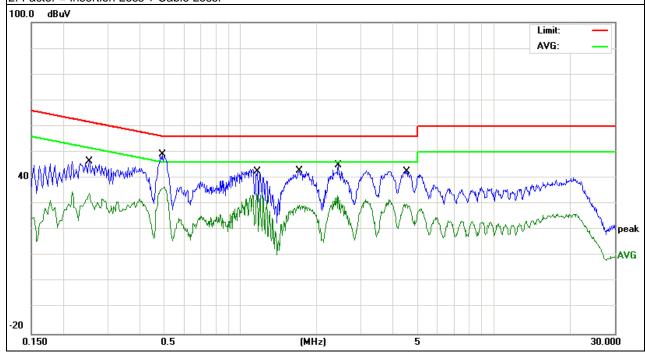




EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE .	DC 5.0V form Adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2540	36.81	9.61	46.42	61.62	-15.20	QP
0.2540	24.60	9.61	34.21	51.62	-17.41	AVG
0.4940	39.62	9.68	49.30	56.10	-6.80	QP
0.4940	26.86	9.68	36.54	46.10	-9.56	AVG
1.1620	33.83	9.60	43.43	56.00	-12.57	QP
1.1620	24.53	9.60	34.13	46.00	-11.87	AVG
1.7139	33.25	9.56	42.81	56.00	-13.19	QP
1.7139	20.15	9.56	29.71	46.00	-16.29	AVG
2.4380	35.32	9.53	44.85	56.00	-11.15	QP
2.4380	23.66	9.53	33.19	46.00	-12.81	AVG
4.5378	33.03	9.51	42.54	56.00	-13.46	QP
4.5378	20.44	9.51	29.95	46.00	-16.05	AVG

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

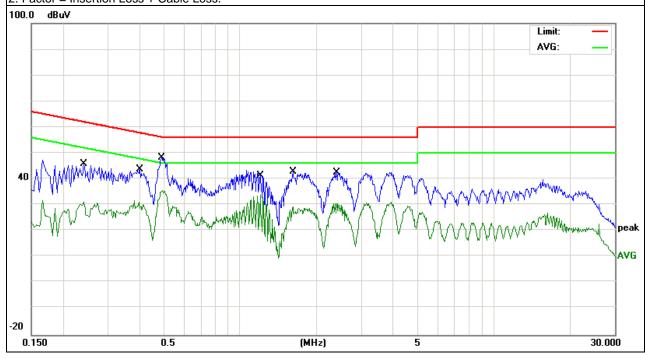




EUT:	Mobile phone	Model Name :	MAGIC
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
TAST VOIDAGE .	DC 5.0V form Adapter AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2419	36.31	9.61	45.92	62.03	-16.11	QP
0.2419	21.66	9.61	31.27	52.03	-20.76	AVG
0.4020	34.04	9.64	43.68	57.81	-14.13	QP
0.4020	22.05	9.64	31.69	47.81	-16.12	AVG
0.4900	38.47	9.68	48.15	56.17	-8.02	QP
0.4900	25.88	9.68	35.56	46.17	-10.61	AVG
1.2020	33.91	9.60	43.51	56.00	-12.49	QP
1.2020	24.24	9.60	33.84	46.00	-12.16	AVG
1.6140	33.27	9.57	42.84	56.00	-13.16	QP
1.6140	19.76	9.57	29.33	46.00	-16.67	AVG
2.4060	33.12	9.53	42.65	56.00	-13.35	QP
2.4060	21.16	9.53	30.69	46.00	-15.31	AVG

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

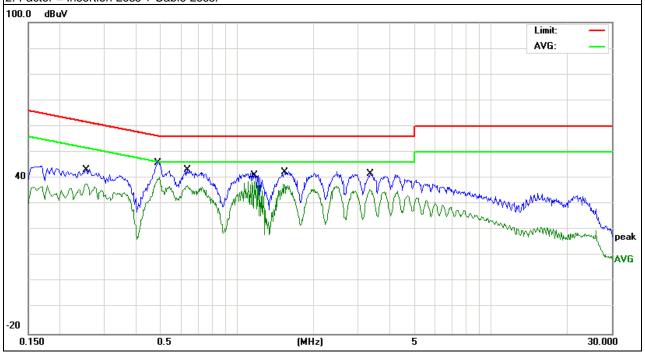




EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE .	DC 5.0V form Adapter AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2540	33.72	9.61	43.33	61.62	-18.29	QP
0.2540	28.22	9.61	37.83	51.62	-13.79	AVG
0.4940	36.80	9.68	46.48	56.10	-9.62	QP
0.4940	30.80	9.68	40.48	46.10	-5.62	AVG
0.6380	33.83	9.65	43.48	56.00	-12.52	QP
0.6380	27.42	9.65	37.07	46.00	-8.93	AVG
1.1700	32.24	9.60	41.84	56.00	-14.16	QP
1.1700	29.19	9.60	38.79	46.00	-7.21	AVG
1.5260	32.85	9.57	42.42	56.00	-13.58	QP
1.5260	28.03	9.57	37.60	46.00	-8.40	AVG
3.3340	32.07	9.51	41.58	56.00	-14.42	QP
3.3340	26.27	9.51	35.78	46.00	-10.22	AVG

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

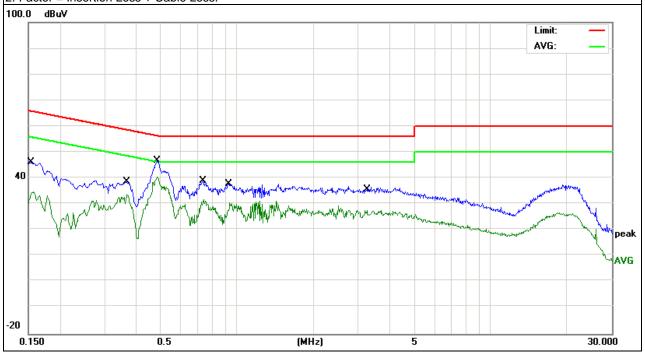




EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
LIAST MOITAGE	DC 5.0V form PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1547	36.37	9.60	45.97	65.74	-19.77	QP
0.1547	25.11	9.60	34.71	55.74	-21.03	AVG
0.3699	28.87	9.63	38.50	58.50	-20.00	QP
0.3699	24.03	9.63	33.66	48.50	-14.84	AVG
0.4860	36.93	9.68	46.61	56.24	-9.63	QP
0.4860	30.62	9.68	40.30	46.24	-5.94	AVG
0.7380	29.46	9.63	39.09	56.00	-16.91	QP
0.7380	22.17	9.63	31.80	46.00	-14.20	AVG
0.9379	28.06	9.62	37.68	56.00	-18.32	QP
0.9379	20.82	9.62	30.44	46.00	-15.56	AVG
3.2419	26.99	9.52	36.51	56.00	-19.49	QP
3.2419	18.18	9.52	27.70	46.00	-18.30	AVG

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

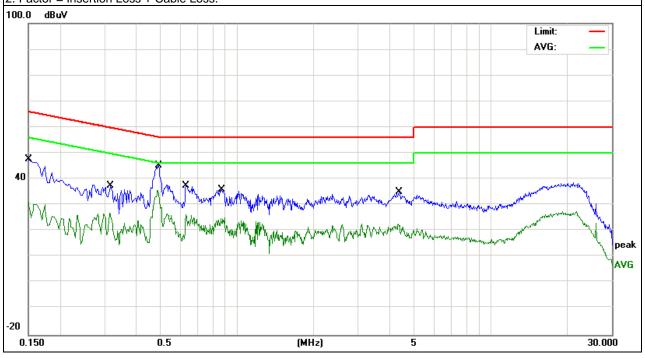




EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5.0V form PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	38.04	9.60	47.64	65.99	-18.35	QP
0.1500	21.44	9.60	31.04	55.99	-24.95	AVG
0.3180	27.72	9.62	37.34	59.76	-22.42	QP
0.3180	17.47	9.62	27.09	49.76	-22.67	AVG
0.4860	35.56	9.68	45.24	56.24	-11.00	QP
0.4860	26.06	9.68	35.74	46.24	-10.50	AVG
0.6300	27.70	9.65	37.35	56.00	-18.65	QP
0.6300	16.58	9.65	26.23	46.00	-19.77	AVG
0.8699	26.39	9.63	36.02	56.00	-19.98	QP
0.8699	15.38	9.63	25.01	46.00	-20.99	AVG
4.3379	25.54	9.51	35.05	56.00	-20.95	QP
4.3379	13.21	9.51	22.72	46.00	-23.28	AVG

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

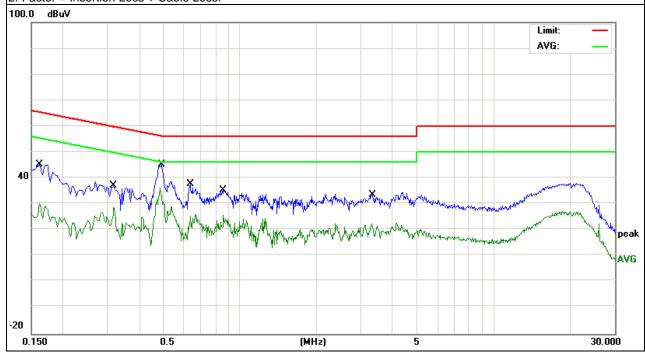




EUT:	Mobile phone	Model Name :	MAGIC
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
LIEST VOITAGE :	DC 5.0V form PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	35.50	9.60	45.10	65.36	-20.26	QP
0.1620	20.53	9.60	30.13	55.36	-25.23	AVG
0.3180	28.90	9.62	38.52	59.76	-21.24	QP
0.3180	19.06	9.62	28.68	49.76	-21.08	AVG
0.4820	35.43	9.68	45.11	56.30	-11.19	QP
0.4820	26.52	9.68	36.20	46.30	-10.10	AVG
0.6340	28.10	9.65	37.75	56.00	-18.25	QP
0.6340	16.35	9.65	26.00	46.00	-20.00	AVG
0.8579	25.65	9.63	35.28	56.00	-20.72	QP
0.8579	16.00	9.63	25.63	46.00	-20.37	AVG
3.3180	23.93	9.51	33.44	56.00	-22.56	QP
3.3180	13.28	9.51	22.79	46.00	-23.21	AVG

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

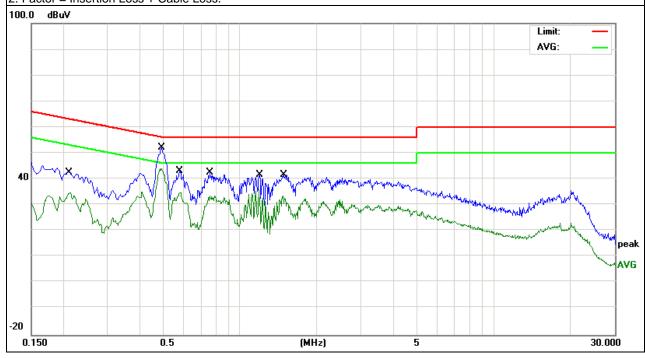




EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5.0V form PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2139	34.77	9.62	44.39	63.05	-18.66	QP
0.2139	25.18	9.62	34.80	53.05	-18.25	AVG
0.4820	42.55	9.68	52.23	56.30	-4.07	QP
0.4820	34.46	9.68	44.14	46.30	-2.16	AVG
0.5819	33.39	9.66	43.05	56.00	-12.95	QP
0.5819	25.11	9.66	34.77	46.00	-11.23	AVG
0.7620	32.81	9.63	42.44	56.00	-13.56	QP
0.7620	23.97	9.63	33.60	46.00	-12.40	AVG
1.1859	32.06	9.60	41.66	56.00	-14.34	QP
1.1859	26.28	9.60	35.88	46.00	-10.12	AVG
1.4738	32.17	9.58	41.75	56.00	-14.25	QP
1.4738	24.00	9.58	33.58	46.00	-12.42	AVG

- All readings are Quasi-Peak and Average values.
 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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MLI-)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	4 Mile /4 Mile for Dook 4 Mile /401 le for Averen
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.

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	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Peak	1 MHz	10 Hz

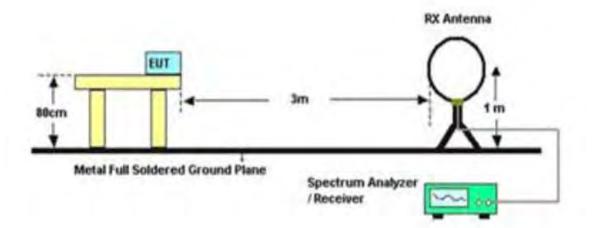
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

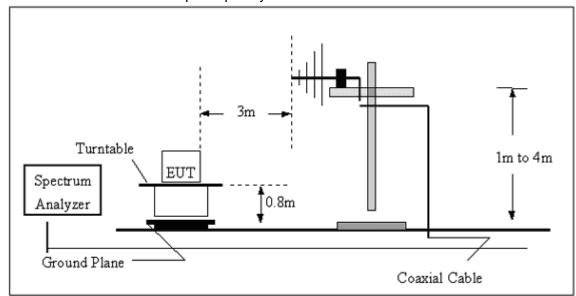


3.2.4 TEST SETUP

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

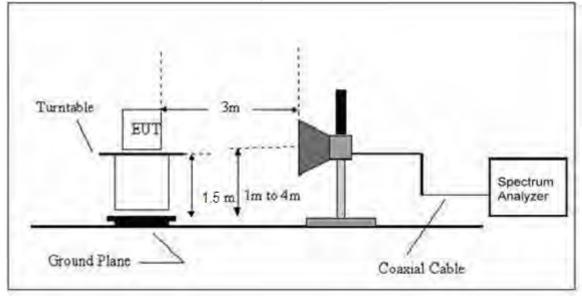


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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 (BELOW 30 MHZ)

EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	20 ℃	Relative Humidity:	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
				Р
				Р

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 =20 log (specific distance/test distance)(dB);

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



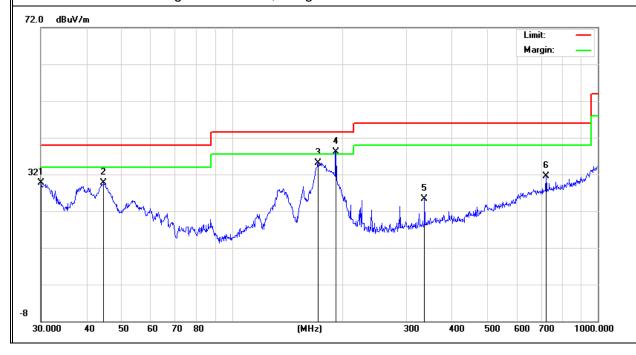
3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

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

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtornart
V	30.0000	10.12	19.57	29.69	40.00	-10.31	QP
V	44.5868	17.73	12.06	29.79	40.00	-10.21	QP
V	171.9944	22.69	12.46	35.15	43.50	-8.35	QP
V	192.4186	26.77	11.35	38.12	43.50	-5.38	QP
V	336.0350	11.45	13.82	25.27	46.00	-20.73	QP
V	721.7259	10.02	21.44	31.46	46.00	-14.54	QP

Remark:

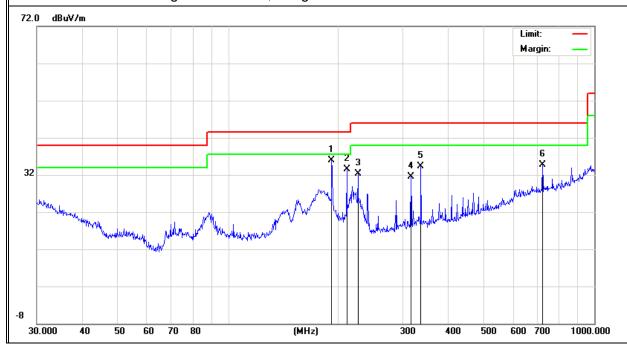
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
Н	191.7450	24.54	11.34	35.88	43.50	-7.62	QP
Н	210.7860	22.54	11.02	33.56	43.50	-9.94	QP
Н	226.0994	21.36	10.90	32.26	46.00	-13.74	QP
Н	315.4806	18.33	13.12	31.45	46.00	-14.55	QP
Н	336.0352	20.55	13.82	34.37	46.00	-11.63	QP
Н	721.7259	13.21	21.44	34.65	46.00	-11.35	QP

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:	1010hPa	Test Mode:	TX
Test Mode :	DC 3.7V		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	k	Comment
Low Channel (2402 MHz)-Above 1G							
4804.261	63.54	-3.64	59.90	74.00	-14.10	Pk	Vertical
4804.261	41.78	-3.64	38.14	54.00	-15.86	AV	Vertical
7206.257	59.75	-0.95	58.80	74.00	-15.20	Pk	Vertical
7206.257	42.12	-0.95	41.17	54.00	-12.83	AV	Vertical
4804.154	62.33	-3.64	58.69	74.00	-15.31	Pk	Horizontal
4804.154	41.98	-3.64	38.34	54.00	-15.66	AV	Horizontal
7206.196	61.47	-0.95	60.52	74.00	-13.48	Pk	Horizontal
7206.196	40.22	-0.95	39.27	54.00	-14.73	AV	Horizontal
	<u>, </u>	Mid Ch	annel (2441 MHz)-A	Above 1G			
4882.239	62.59	-3.68	58.91	74.00	-15.09	Pk	Vertical
4882.239	43.91	-3.68	40.23	54.00	-13.77	AV	Vertical
7323.328	61.36	-0.82	60.54	74.00	-13.46	Pk	Vertical
7323.328	42.17	-0.82	41.35	54.00	-12.65	AV	Vertical
4882.394	61.55	-3.68	57.87	74.00	-16.13	Pk	Horizontal
4882.394	42.71	-3.68	39.03	54.00	-14.97	AV	Horizontal
7323.203	60.96	-0.82	60.14	74.00	-13.86	Pk	Horizontal
7323.203	42.54	-0.82	41.72	54.00	-12.28	AV	Horizontal
	<u>, </u>	High Ch	annel (2480 MHz)-	Above 1G			
4960.105	63.29	-3.59	59.70	74.00	-14.30	Pk	Vertical
4960.105	41.55	-3.59	37.96	54.00	-16.04	AV	Vertical
7440.258	59.64	-0.68	58.96	74.00	-15.04	Pk	Vertical
7440.258	42.83	-0.68	42.15	54.00	-11.85	AV	Vertical
4960.199	61.36	-3.59	57.77	74.00	-16.23	Pk	Horizontal
4960.226	43.26	-3.59	39.67	54.00	-14.33	AV	Horizontal
7440.105	60.45	-0.68	59.77	74.00	-14.23	Pk	Horizontal
7440.105	42.62	-0.68	41.94	54.00	-12.06	AV	Horizontal

Note: Mode 1Mbps is the worst mode.



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

/						
FCC Part15 (15.247) , Subpart C						
Section Test Item Limit Frequency Range (MHz)				Result		
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS		

Spectrum Parameters	Setting	
Attenuation	Auto	
Span Frequency	= the frequency band of operation	
RB	RBW=100kHz	
VB	$VBW \ge RBW$	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

4.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting: RBW= 100kHz, VBW=100kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP

EUT	SPECTRUM		
	ANALYZER		

4.1.4 EUT OPERATION CONDITIONS

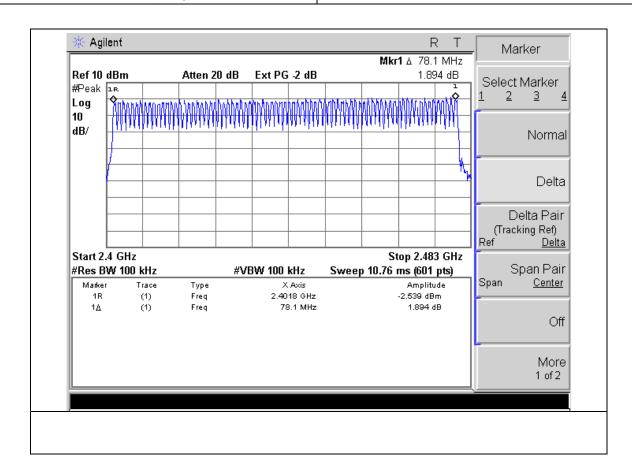
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode-GFSK		

Number of Hopping Channel 79





5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1 MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)*0.4

DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.



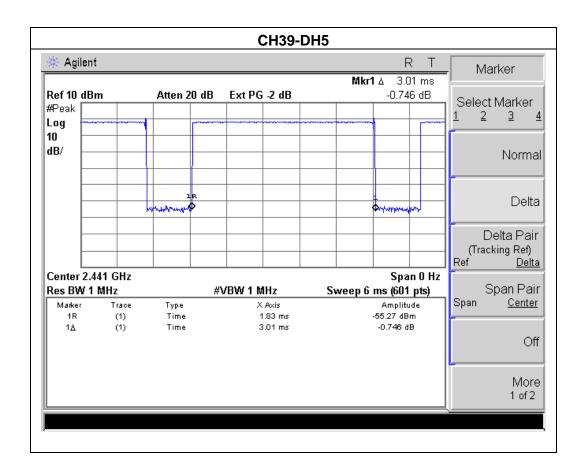
NTEK	Page 34 of 73	Report No.:NTEK-2015NT09012607F2
5.1.3 TEST SETUP		
		ODECTRUM
EUT		SPECTRUM ANALYZER
5.1.4 EUT OPERAT		ments of 2.4 Unless otherwise a special
operating condition i	is specified in the follows during	the testing.



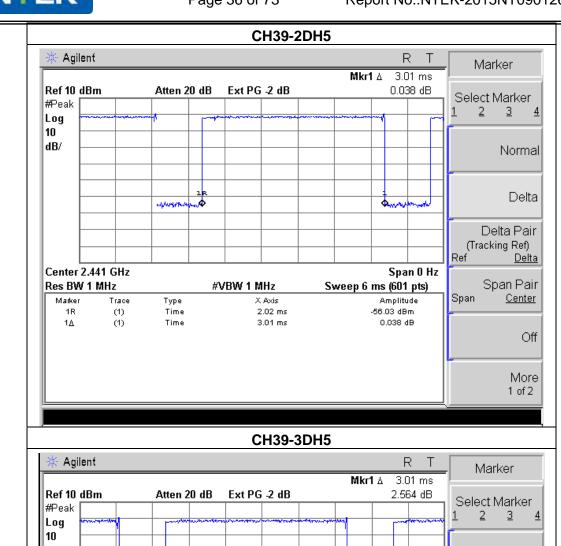
5.1.5 TEST RESULTS

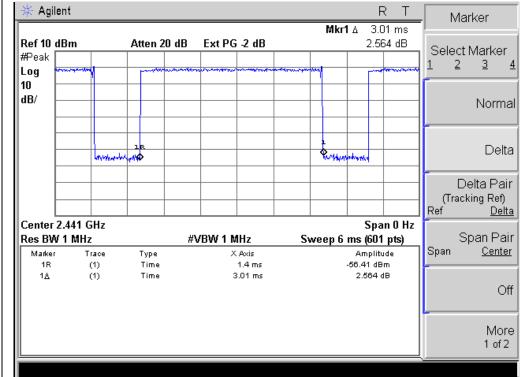
EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits	
		(ms)	(s)	(s)	
DH5	2441 MHz	3.01	0.32	0.4	
2DH5	2441 MHz	3.01	0.32	0.4	
3DH5	2441 MHz	3.01	0.32	0.4	





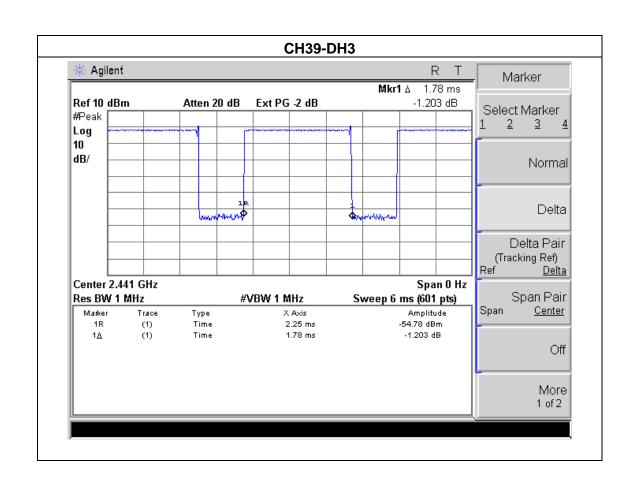




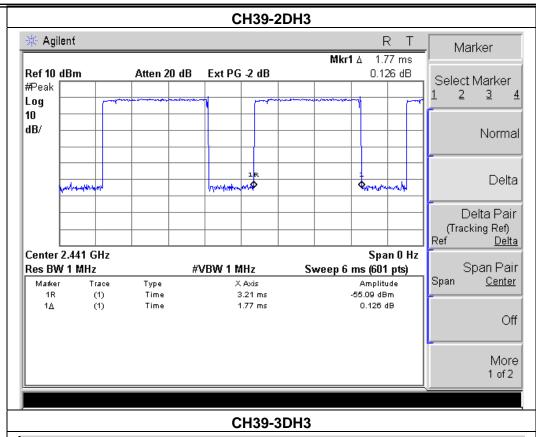


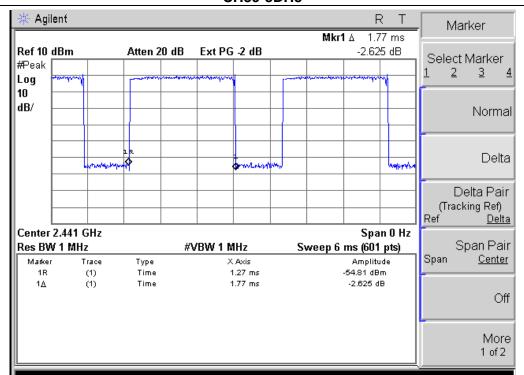
EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3,2DH3,3DH3		

		Pulse	Dwell	Limits
Data Packet	Frequency	Duration	Time	Lillits
		(ms)	(s)	(s)
DH3	2441 MHz	1.78	0.28	0.4
2DH3	2441 MHz	1.77	0.28	0.4
3DH3	2441 MHz	1.77	0.28	0.4





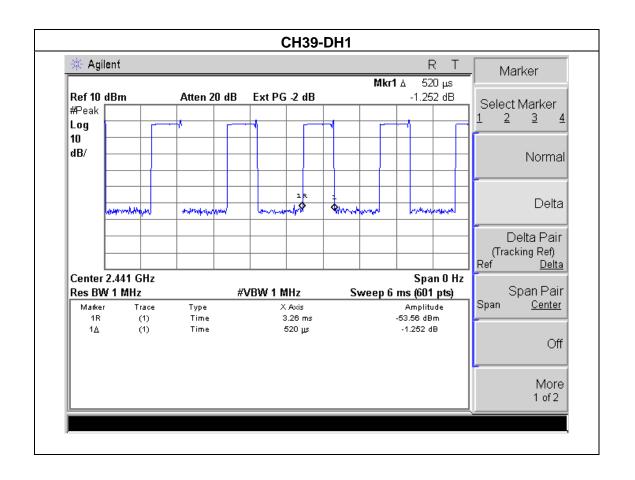




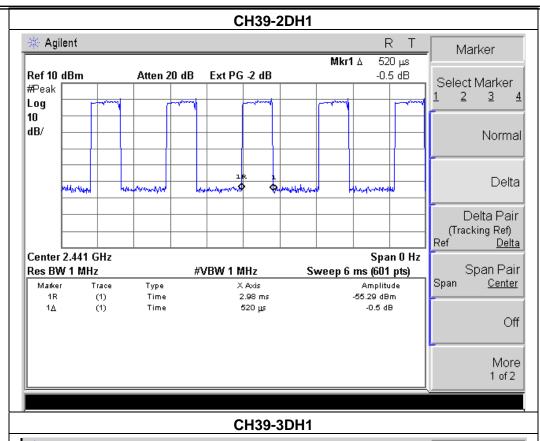


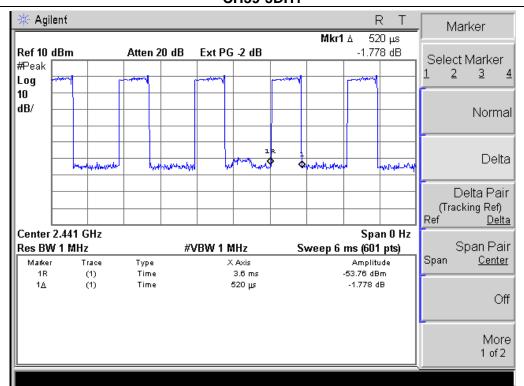
EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH1,2DH1,3DH1		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH1	2441 MHz	0.52	0.16	0.4
2DH1	2441 MHz	0.52	0.16	0.4
3DH1	2441 MHz	0.52	0.16	0.4











6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	100 kHz (Channel Separation)
VB	100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

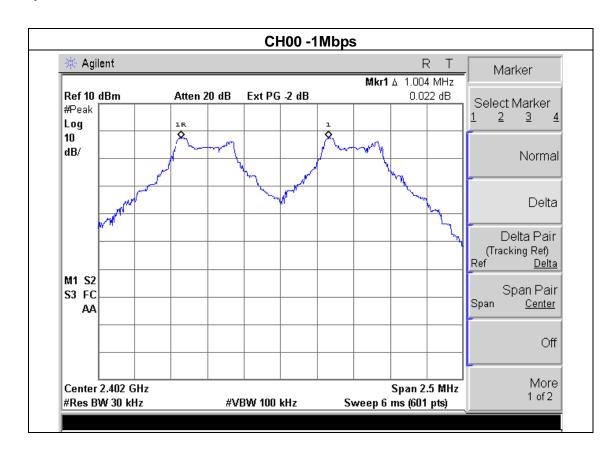


6.1.5 TEST RESULTS

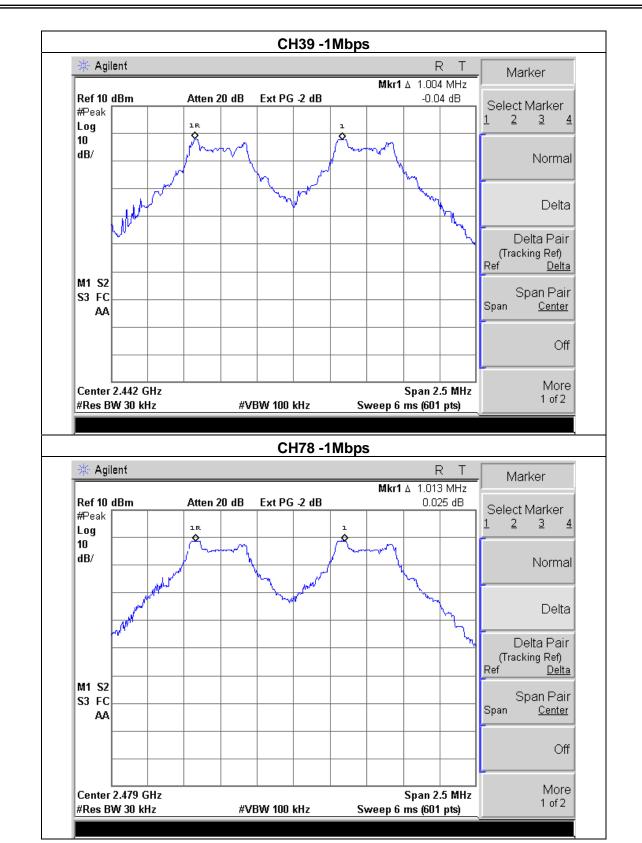
EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	est Mode : CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.004	Complies
2441 MHz	1.004	Complies
2480 MHz	1.013	Complies

Ch. Separation Limits: > 20dB bandwidth





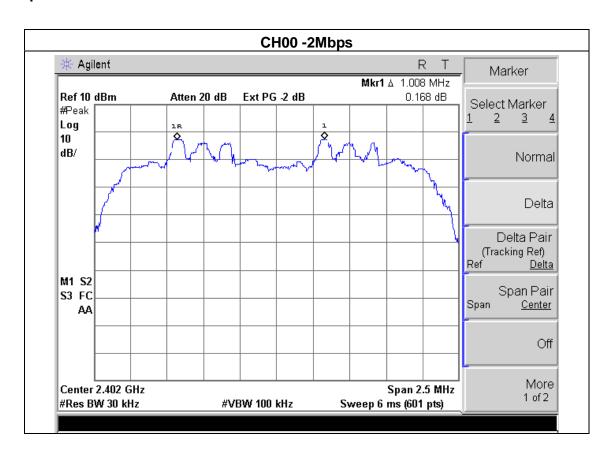




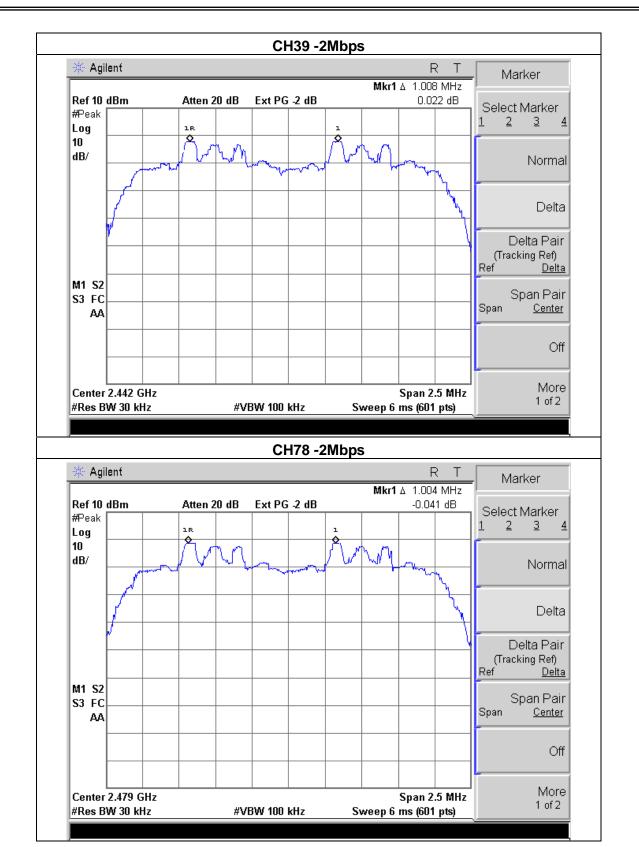
EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.008	Complies
2441 MHz	1.008	Complies
2480 MHz	1.004	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth





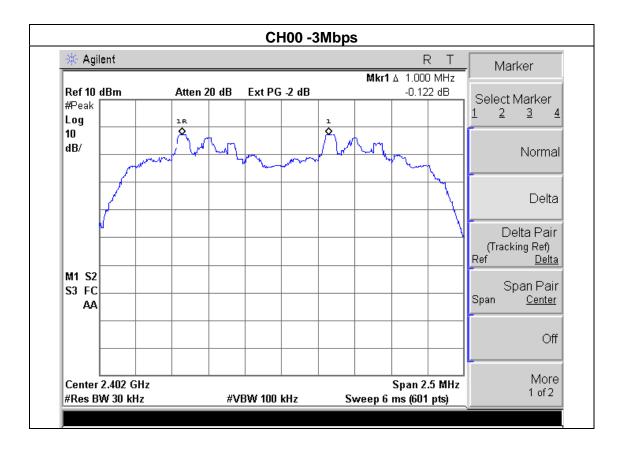




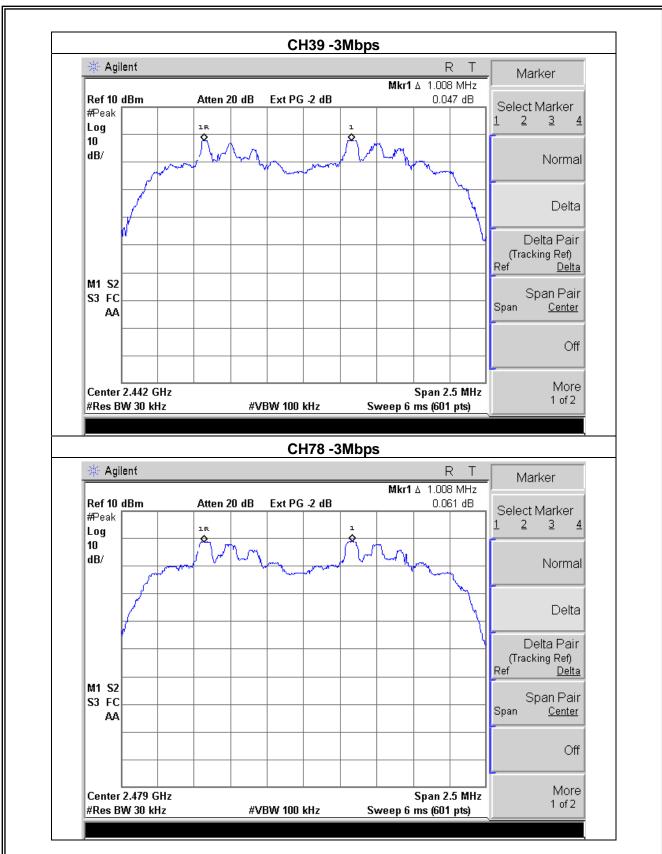
EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	Complies
2441 MHz	1.008	Complies
2480 MHz	1.008	Complies

Ch. Separation Limits: >2/3 of 20dB bandwidth









7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

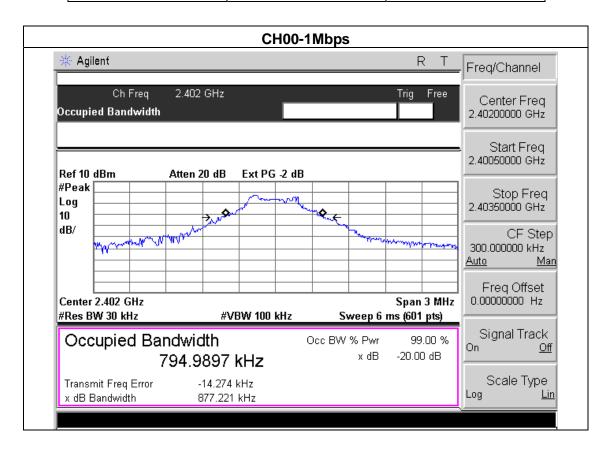
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



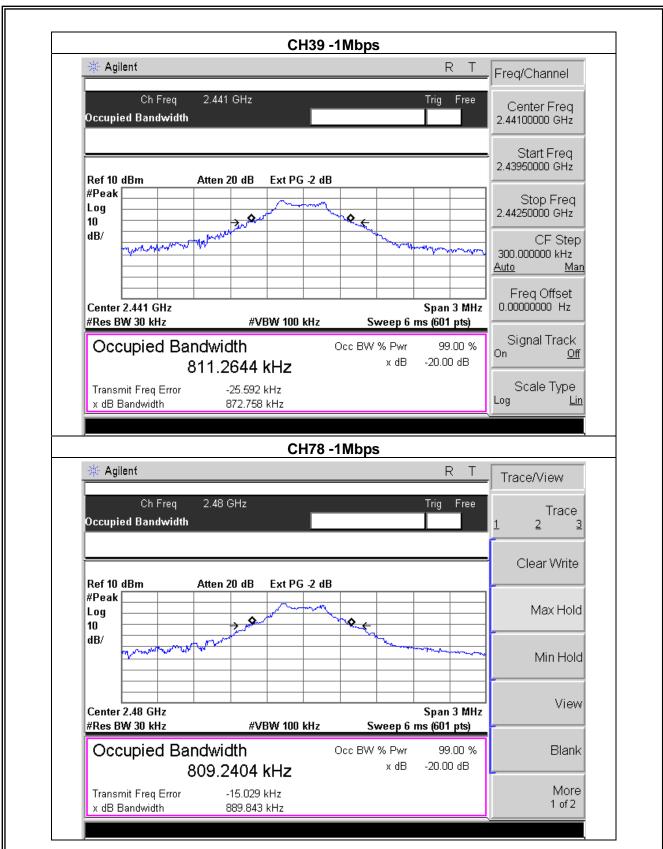
7.1.5 TEST RESULTS

EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	877.221	PASS
2441 MHz	872.758	PASS
2480 MHz	889.843	PASS



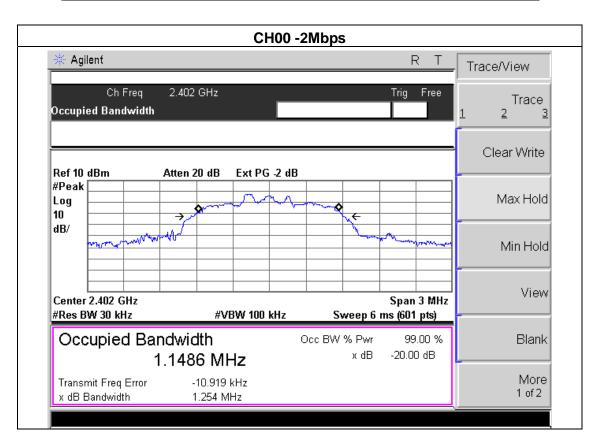




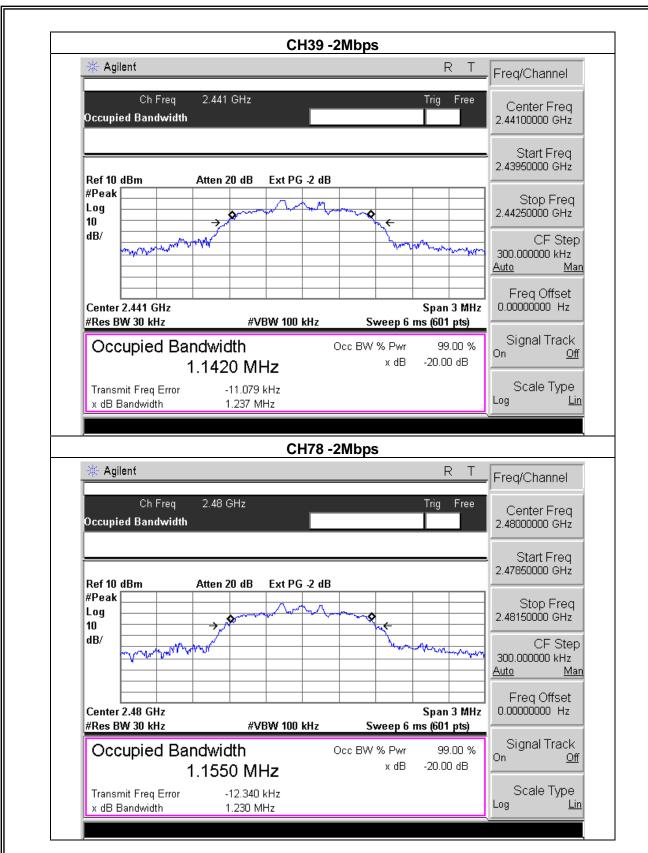


EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78 (2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.254	PASS
2441 MHz	1.237	PASS
2480 MHz	1.230	PASS



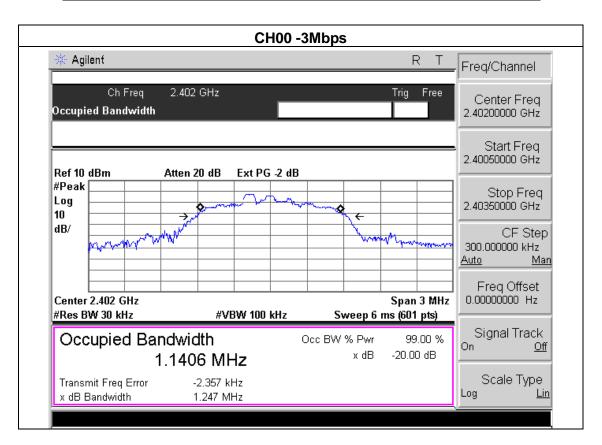




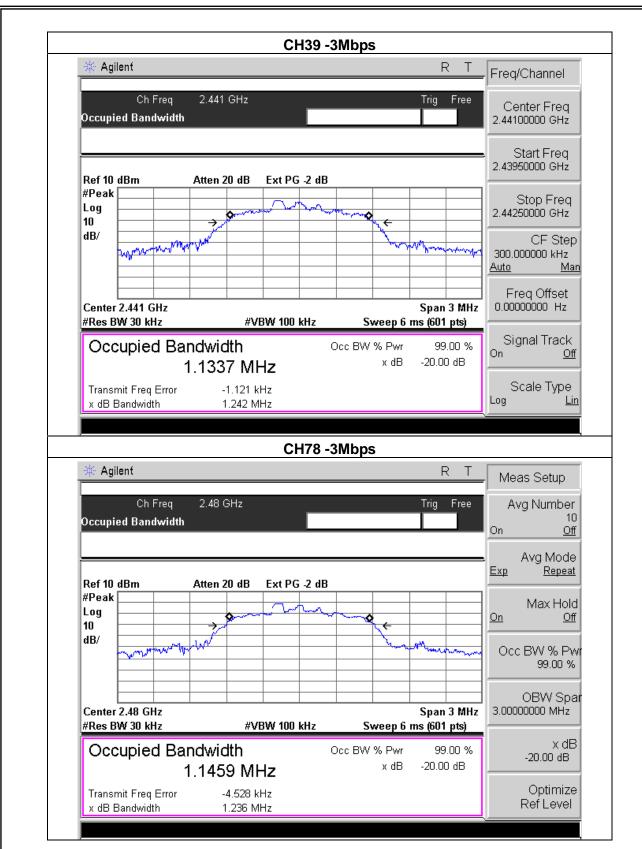


EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78 (3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.247	PASS
2441 MHz	1.242	PASS
2480 MHz	1.236	PASS









8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

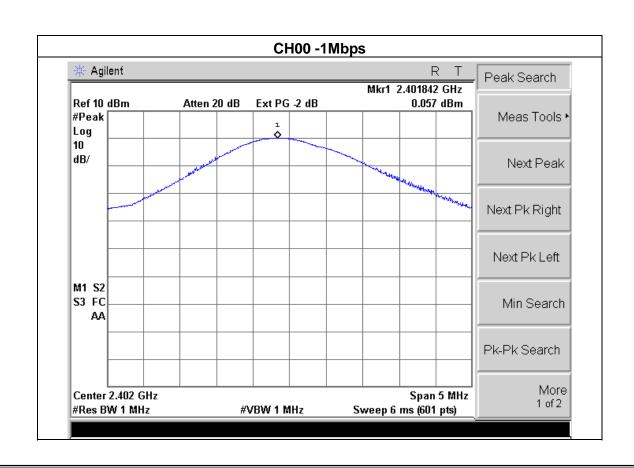
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



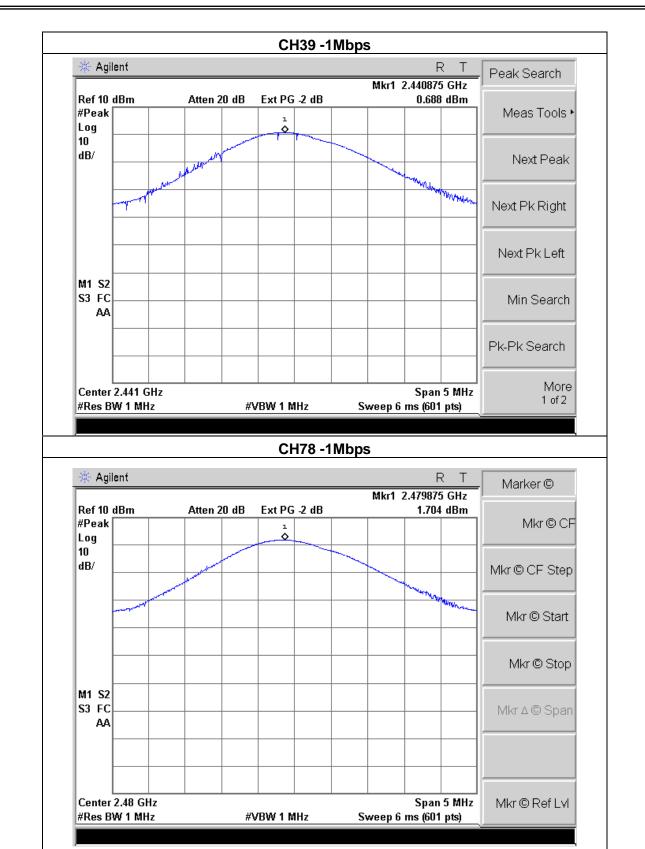
8.1.5 TEST RESULTS

EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

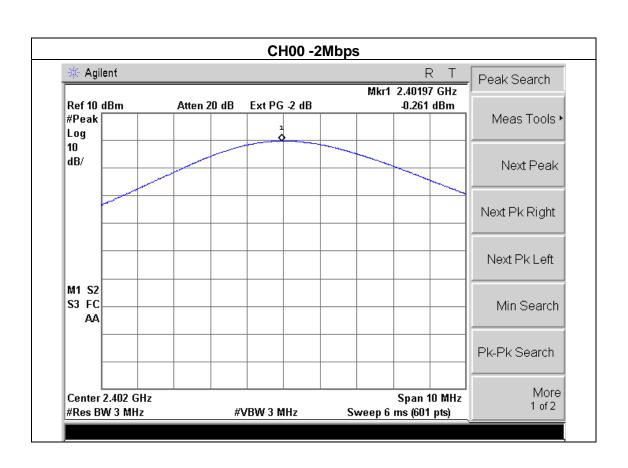
		1Mbps	
Test Channel	Frequency	Peak Output Power	LIMIT
Test onamici	(MHz)	(dBm)	(dBm)
CH00	2402	0.057	30
CH39	2441	0.688	30
CH78	2480	1.704	30
2Mbps			
CH00	2402	-0.261	20.96
CH39	2441	0.368	20.96
CH78	2480	1.448	20.96
3Mbps			
CH00	2402	-0.239	20.96
CH39	2441	0.375	20.96
CH78	2480	1.407	20.96



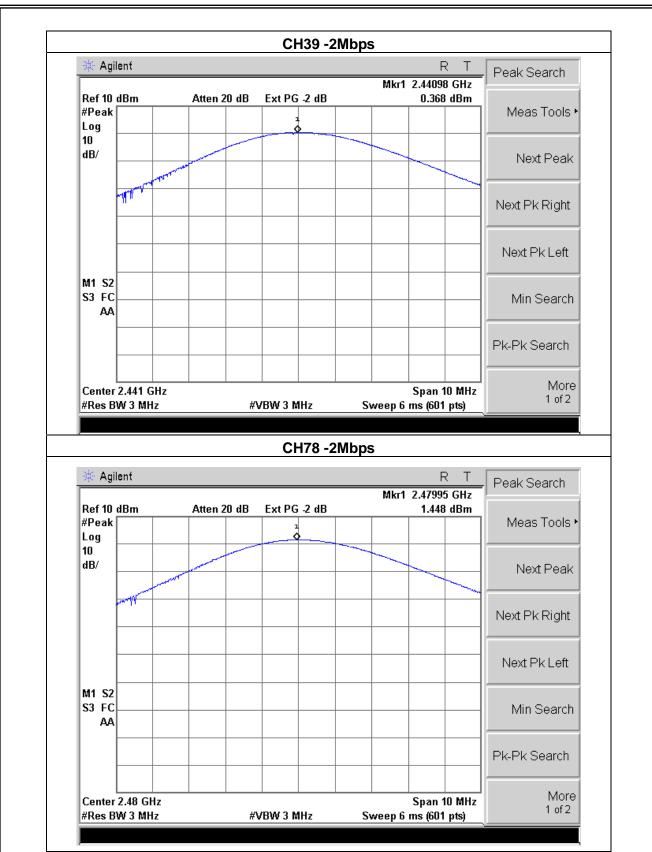




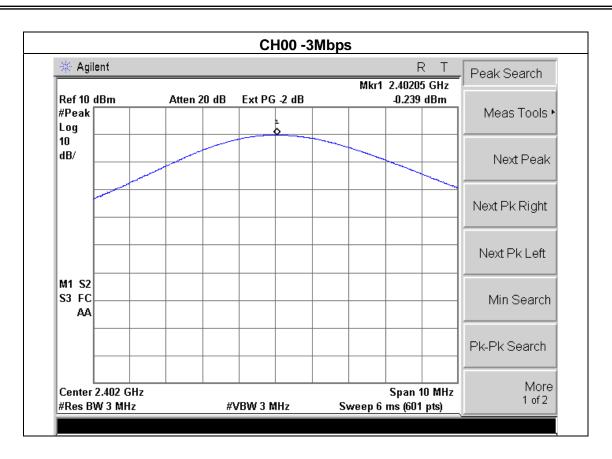




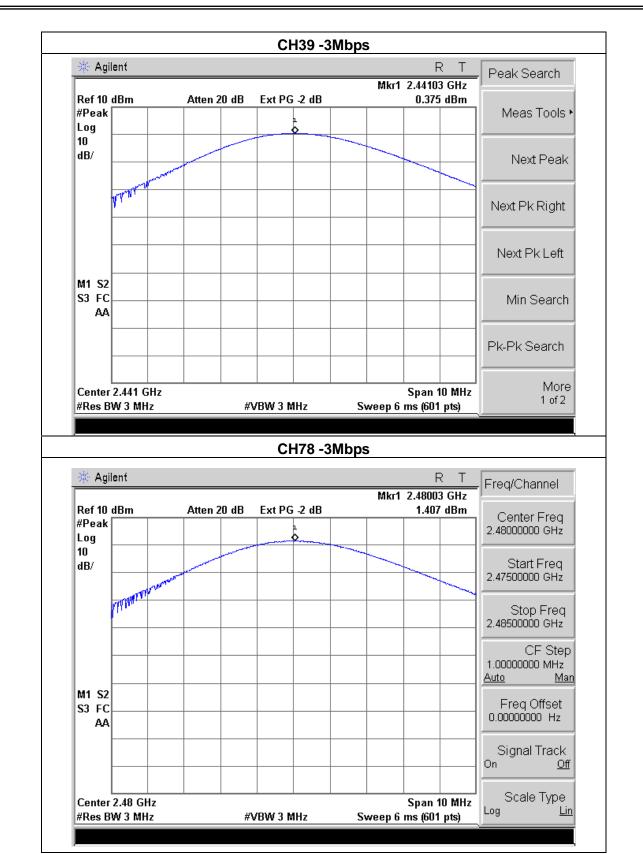














9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.3 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.



9.4 TEST RESULTS

EUT:	Mobile phone	Model Name :	MAGIC
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH78 (1M/2M/3Mbps Mode)		

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result				
1Mbps Non-hopping							
2400	42.33	20	Pass				
2483.5	47.61	20	Pass				
	2Mbps Non-hopping						
2400	41.63	20	Pass				
2483.5	47.23	20	Pass				
3Mbps Non-hopping							
2400	41.46	20	Pass				
2483.5	47.26	20	Pass				
1Mbps hopping							
2400	47.14	20	Pass				
2483.5	48.43	20	Pass				
2Mbps hopping							
2400	42.92	20	Pass				
2483.5	51.51	20	Pass				
3Mbps hopping							
2400	45.40	20	Pass				
2483.5	47.47	20	Pass				

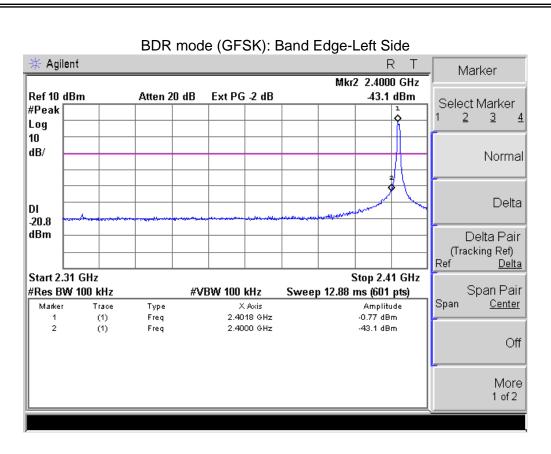


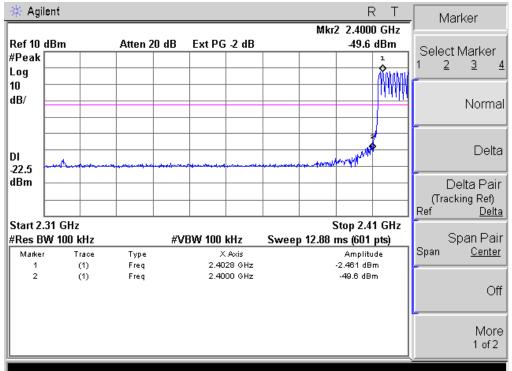
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBμV)	(dB)	(dBµV/m)	(dBμV/m)	(dB)	Туре	Comment
	1Mbps Non-hopping						
2390	59.78	-13.06	46.72	74.00	-27.28	peak	Vertical
2390	58.92	-13.06	45.86	74.00	-28.14	peak	Horizontal
2483.5	61.42	-12.78	48.64	74.00	-25.36	peak	Vertical
2483.5	60.34	-12.78	47.56	74.00	-26.44	peak	Horizontal
			1Mbps hopping	g		1	
2390	60.28	-13.06	47.22	74.00	-26.78	peak	Vertical
2390	59.85	-13.06	46.79	74.00	-27.21	peak	Horizontal
2483.5	58.41	-12.78	45.63	74.00	-28.37	peak	Vertical
2483.5	60.29	-12.78	47.51	74.00	-26.49	peak	Horizontal
	2Mbps Non-hopping						
2390	60.49	-13.06	47.43	74.00	-26.57	peak	Vertical
2390	60.23	-13.06	47.17	74.00	-26.83	peak	Horizontal
2483.5	60.75	-12.78	47.97	74.00	-26.03	peak	Vertical
2483.5	59.21	-12.78	46.43	74.00	-27.57	peak	Horizontal
2Mbps hopping							
2390	58.66	-13.06	45.60	74.00	-28.40	peak	Vertical
2390	59.23	-13.06	46.17	74.00	-27.83	peak	Horizontal
2483.5	59.58	-12.78	46.80	74.00	-27.20	peak	Vertical
2483.5	58.01	-12.78	45.23	74.00	-28.77	peak	Horizontal
	3Mbps Non-hopping						1
2390	58.62	-13.06	45.56	74.00	-28.44	peak	Vertical
2390	61.08	-13.06	48.02	74.00	-25.98	peak	Horizontal
2483.5	60.24	-12.78	47.46	74.00	-26.54	peak	Vertical
2483.5	59.77	-12.78	46.99	74.00	-27.01	peak	Horizontal
3Mbps hopping							
2390	59.76	-13.06	46.70	74.00	-27.30	peak	Vertical
2390	58.49	-13.06	45.43	74.00	-28.57	peak	Horizontal
2483.5	58.11	-12.78	45.33	74.00	-28.67	peak	Vertical
2483.5	59.26	-12.78	46.48	74.00	-27.52	peak	Horizontal

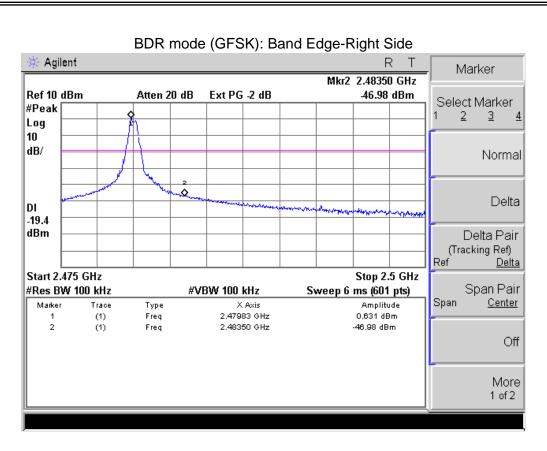
Note: Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.

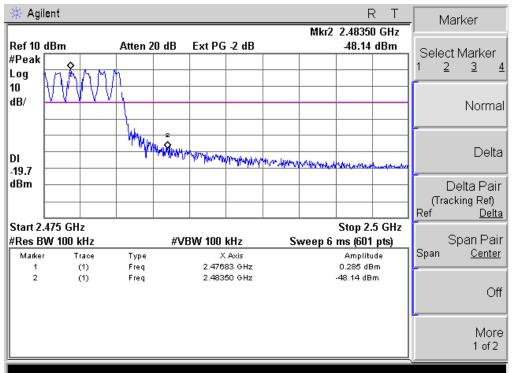




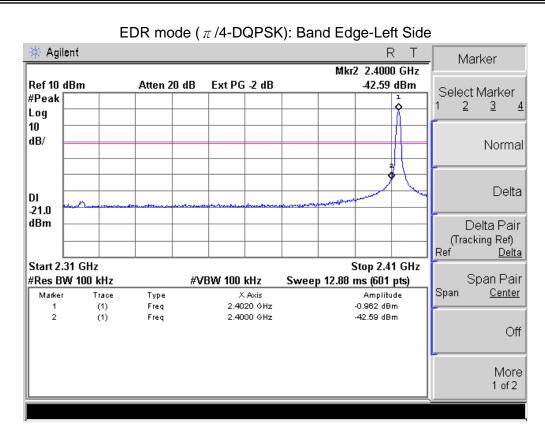


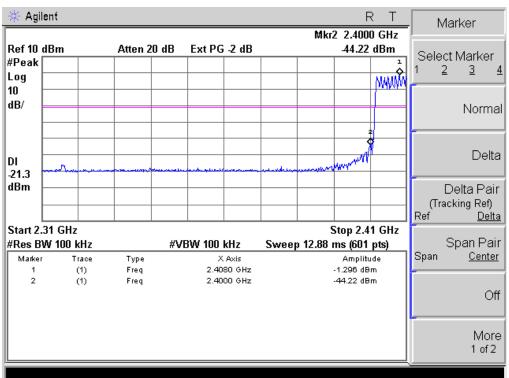




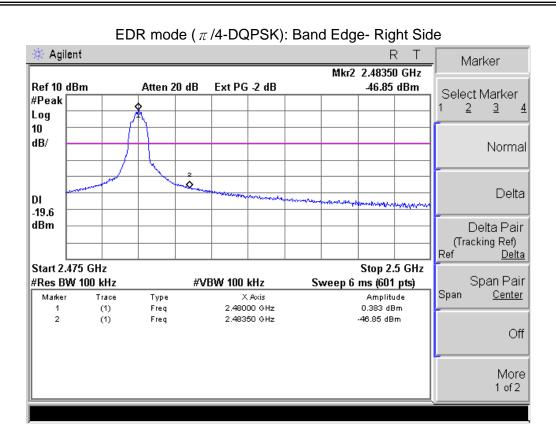


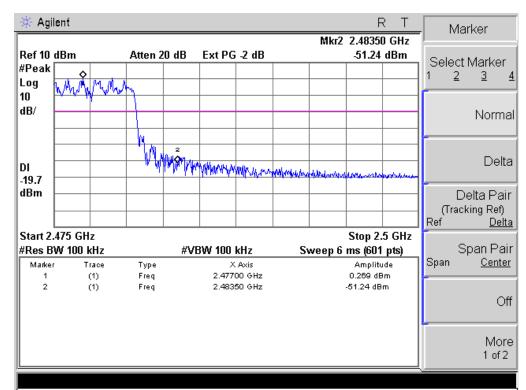




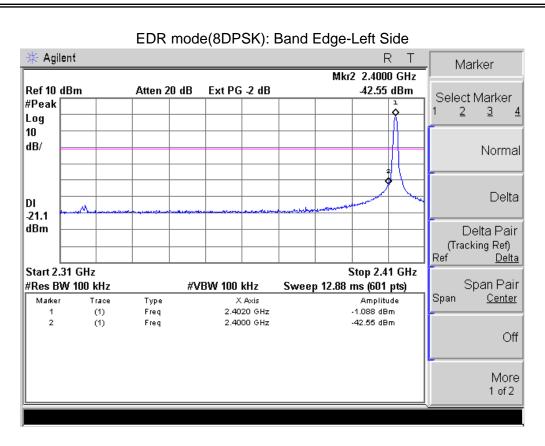


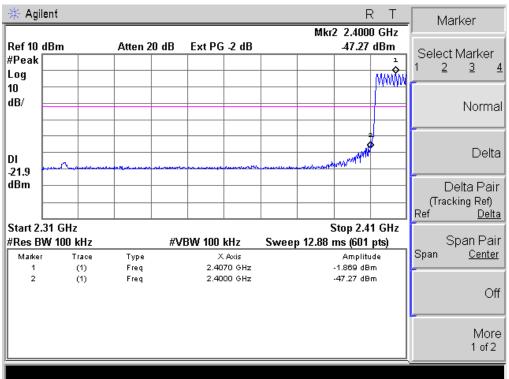




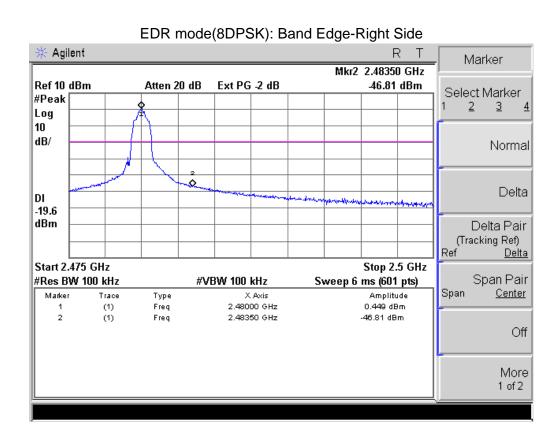


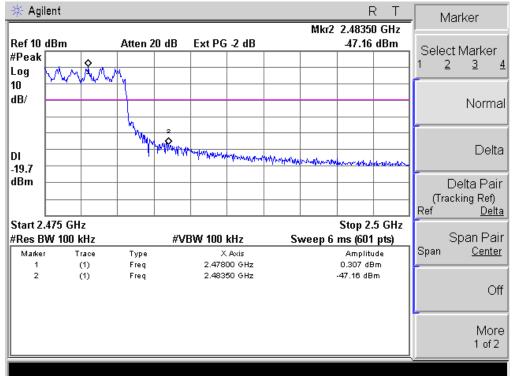












NOTE: Hopping enabled and disabled have evaluated, and the wortest data was reported



10. ANTENNA REQUIREMENT

10.1 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.

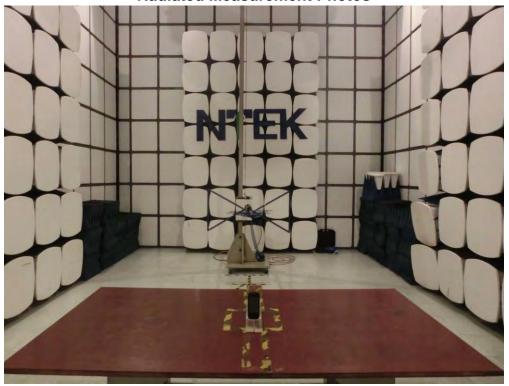
10.2 EUT ANTENNA

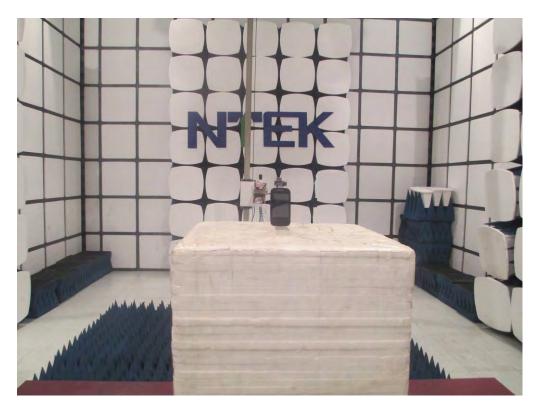
The EUT antenna is permanent attached antenna. It comply with the standard rec	quirement.
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11. EUT TEST PHOTO









CONDUCTED EMISSION Photos



