



FCC RADIO TEST REPORT FCC ID: 2ANMU-K9

Product: Smart Phone

Trade Mark: OUKITEL Model No.: K9 Family Model: N/A Report No.: S19042405803003

Issue Date: 26 Jun. 2019

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD		
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIA ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China		
Manufacturer's Name	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD		
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China		
Product description			
Product name:	Smart Phone		
Model and/or type reference:	К9		
Family Model:	N/A		

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	
KDB 174176 D01 Line Conducted FAQ v01r01	Complied
ANSI C63.10-2013	
KDB 558074 D01 15.247 Meas Guidance v05r02	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., 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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The test results of this report relate only to the tested sample identified in this report.

Date of Test	: 25 Apr. 2019 ~ 16 May. 2019
Testing Engineer	Hen bin
	(Allen Liu)
Technical Manager	Jason chen
-	(Jason Chen)
	Sam. Chen
Authorized Signatory	:
	(Sam Chen)

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	FCC Part15 (15.247), Subpart	С	
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	PASS		
15.209 (a) 15.205 (a)	PASS		
15.247 (e)	PASS		
15.247 (d)	PASS		
15.247 (d)	PASS		
15.203	PASS		

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Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

2.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	Smart Phone					
Trade Mark	OUKITEL					
FCC ID	2ANMU-K9					
Model No.	К9					
Family Model	N/A					
Model Difference	N/A					
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20); 2422-2452MHz for 802.11n(HT40);					
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;					
Number of Channels	11 channels for 802.11b/g/11n(HT20); 7 channels for 802.11n(HT40);					
Antenna Type	FPCB Antenna					
Antenna Gain	1.2dBi					
	DC supply: DC 3.85V/6000mAh from battery or DC 5V from USB Port.					
Power supply	Adapter supply: Model: HJ-050600K9-US Input: 100-240V~50/60Hz 0.8A Output: 5V6.0A					
HW Version HCT-M861MB-B1						
SW Version OUKITEL_K9_V07_2019						

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Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.



Revision History						
Report No.	Version	Description	Issued Date			
S19042405803003	Rev.01	Initial issue of report	Jun 26, 2019			

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5 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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20/HT40):

Channel	Frequency(MHz)
1	2412
2	2417
5	2432
6	2437
10	2457
11	2462

Note: fc=2412MHz+(k-1)×5MHz k=1 to 11

AC power line Conducted Emission was tested under maximum output power.





Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
	11b/CCK	1 Mbps	1/6/11	1
laximum Conducted Output	11g/BPSK	6 Mbps	1/6/11	1
Power	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
	11b/CCK	4 Mhra	1/6/11	
	11g/BPSK	1 Mbps 6 Mbps	1/6/11	1
Power Spectral Density	11g/BP3K 11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
			0,0,0	•
	11b/CCK	1 Mbps	1/6/11	1
6dB Spectrum Bandwidth	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
	11b/CCK	1 Mbps	1/6/11	1
Radiated Emissions Above		•	1/6/11	-
1GHz	11g/BPSK	6 Mbps		1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
		4 5 41	4/0/44	A
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1



6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For AC Conducted	Emission Mode			
	AC PI	LUG -		
For Radiated Test C	ases			
	CUT			
	EUT			
For Conducted Test	Cases			
Measurement Instrument	c-1 EUT			
and this temporary	ry antenna connector is so antenna connector is listed y-powered, the battery is f	I in the equipment list.	ard in order to p	perform conducted test



6.2 SUPPORT EQUIPMENT

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m

Notes:

- (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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

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Radiation& Conducted Test equipment

adiatic		est equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2018.05.19	2019.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2018.10.08	2019.10.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2018.05.19	2019.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2019.04.15	2020.04.14	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2018.12.11	2019.12.10	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2018.08.05	2019.08.04	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.12.11	2019.12.10	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2018.08.05	2019.08.04	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
16	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Co	onduction Test	equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2018.05.19	2019.05.18	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2018.05.19	2019.05.18	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit			
Frequency(Miriz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

Note: 1. *Decreases with the logarithm of the frequency

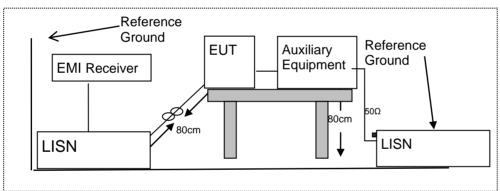
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT 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.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.





7.1.6 Test Results

EUT:	Smart Phone	Model Name :	К9
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

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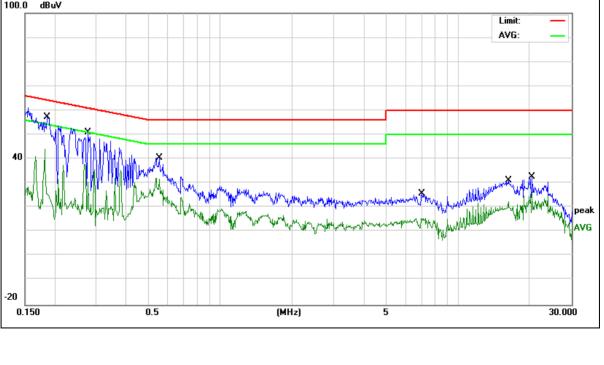
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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorte
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	- Remark
0.1859	47.37	9.82	57.19	64.21	-7.02	QP
0.1859	15.73	9.82	25.55	54.21	-28.66	AVG
0.2757	41.18	9.82	51.00	60.94	-9.94	QP
0.2757	20.77	9.82	30.59	50.94	-20.35	AVG
0.5540	30.70	9.83	40.53	56.00	-15.47	QP
0.5540	15.97	9.83	25.80	46.00	-20.20	AVG
7.0339	15.68	9.97	25.65	60.00	-34.35	QP
7.0339	4.95	9.97	14.92	50.00	-35.08	AVG
16.2299	20.96	10.22	31.18	60.00	-28.82	QP
16.2299	9.88	10.22	20.10	50.00	-29.90	AVG
20.3819	22.28	10.25	32.53	60.00	-27.47	QP
20.3819	16.02	10.25	26.27	50.00	-23.73	AVG

Remark:

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









EUT:	Smart Phone	Model Name :	К9
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

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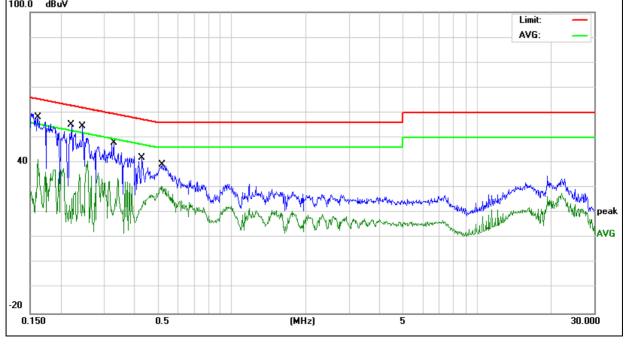
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1632	46.78	9.92	56.70	65.29	-8.59	QP
0.1632	24.94	9.92	34.86	55.29	-20.43	AVG
0.2220	45.22	9.92	55.14	62.74	-7.60	QP
0.2220	8.54	9.92	18.46	52.74	-34.28	AVG
0.2459	44.54	9.92	54.46	61.89	-7.43	QP
0.2459	13.39	9.92	23.31	51.89	-28.58	AVG
0.3300	38.06	9.92	47.98	59.45	-11.47	QP
0.3300	9.62	9.92	19.54	49.45	-29.91	AVG
0.4299	31.88	9.93	41.81	57.25	-15.44	QP
0.4299	11.29	9.93	21.22	47.25	-26.03	AVG
0.5181	29.20	9.93	39.13	56.00	-16.87	QP
0.5181	20.62	9.93	30.55	46.00	-15.45	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV





EUT:	Smart Phone	Model Name :	К9
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Normal Link

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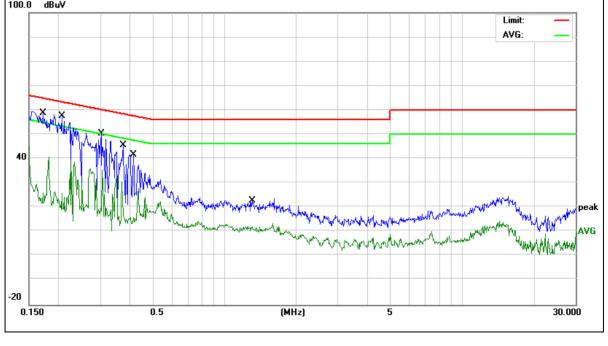
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1720	49.02	9.82	58.84	64.86	-6.02	QP
0.1720	11.95	9.82	21.77	54.86	-33.09	AVG
0.2061	47.61	9.82	57.43	63.36	-5.93	QP
0.2061	9.67	9.82	19.49	53.36	-33.87	AVG
0.3019	40.52	9.82	50.34	60.19	-9.85	QP
0.3019	8.15	9.82	17.97	50.19	-32.22	AVG
0.3738	35.58	9.83	45.41	58.41	-13.00	QP
0.3738	20.77	9.83	30.60	48.41	-17.81	AVG
0.4139	31.80	9.83	41.63	57.57	-15.94	QP
0.4139	5.91	9.83	15.74	47.57	-31.83	AVG
1.3060	12.90	9.90	22.80	56.00	-33.20	QP
1.3060	1.18	9.90	11.08	46.00	-34.92	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





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EUT:	Smart Phone	Model Name :	K9
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Normal Link

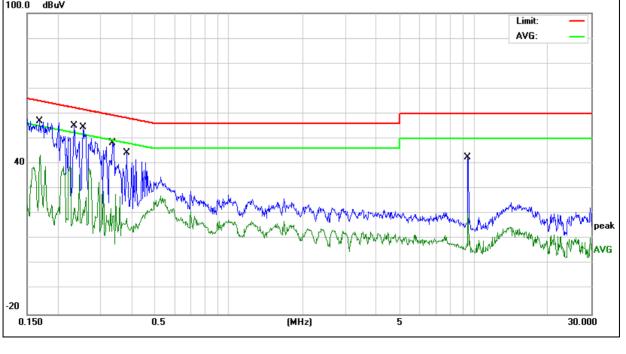
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1685	46.98	9.92	56.90	65.03	-8.13	QP
0.1685	31.79	9.92	41.71	55.03	-13.32	AVG
0.2340	45.12	9.92	55.04	62.30	-7.26	QP
0.2340	8.90	9.92	18.82	52.30	-33.48	AVG
0.2540	44.55	9.92	54.47	61.62	-7.15	QP
0.2540	11.82	9.92	21.74	51.62	-29.88	AVG
0.3339	38.43	9.92	48.35	59.35	-11.00	QP
0.3339	9.17	9.92	19.09	49.35	-30.26	AVG
0.3820	34.47	9.93	44.40	58.23	-13.83	QP
0.3820	7.35	9.93	17.28	48.23	-30.95	AVG
9.4338	32.52	10.08	42.60	60.00	-17.40	QP
9.4338	10.30	10.08	20.38	50.00	-29.62	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

7.0001 alling to 1 00 1 altito.20							
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

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.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/	′m) (at 3M)	
	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

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

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

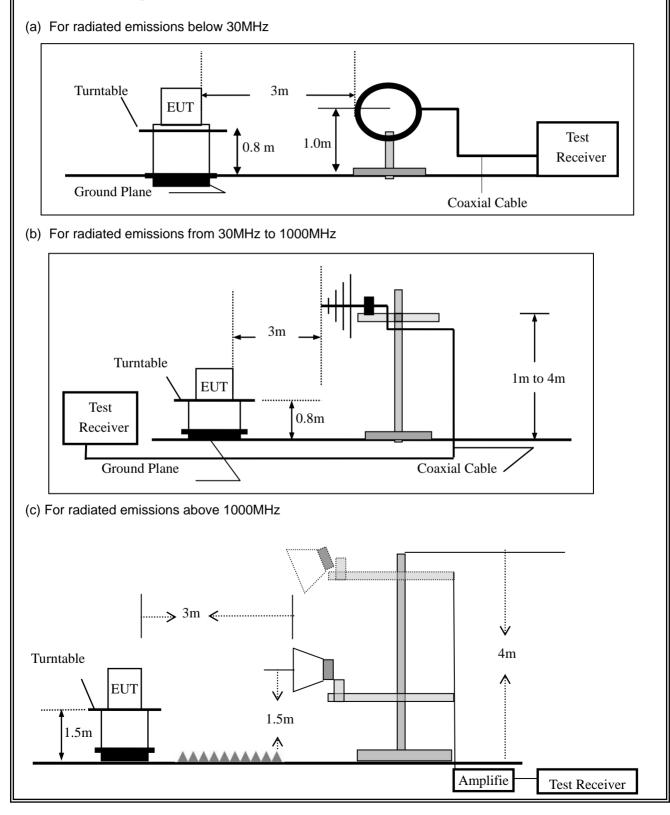
Limit line=Specific limits(dBuV) + distance extrapolation factor.



7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

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

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and frequencies above 1GHz,
- 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. 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. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. 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.
- f. 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.
- g 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: For peak measurement:

Set RBW=120 kHz for f < 1 GHz; VBW \ge RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f \ge 1 GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \ge 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Smart Phone	Model No.:	К9
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4/Mode5	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	Emission Level(dBuV/m)		m(dBuV/m)	Over	(dB)
(MHz)	H/V	PK AV		PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz)

All the modulation modes have been tested, and the worst result was report as below:

EUT:	Smart Phone	Model Name :	К9
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Normal Link
Test Voltage :	DC 3.85V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.6664	18.40	10.44	28.84	40.00	-11.16	QP
V	73.6170	21.02	9.99	31.01	40.00	-8.99	QP
V	107.8876	13.97	10.47	24.44	43.50	-19.06	QP
V	160.3456	16.14	11.67	27.81	43.50	-15.69	QP
V	193.7728	18.09	11.58	29.67	43.50	-13.83	QP
V	612.0642	10.11	19.98	30.09	46.00	-15.91	QP

Remark:

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

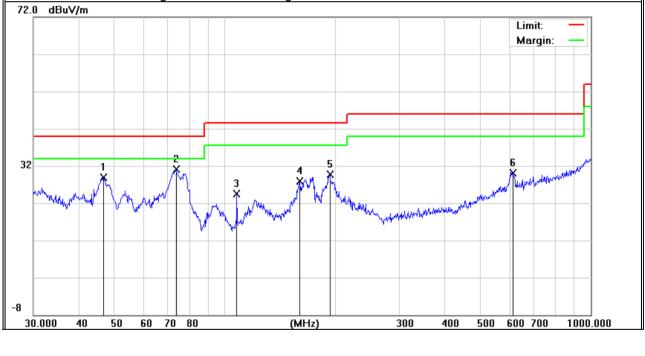




Image: Heading Level Certer Remark (HV) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) H 77.0505 17.43 9.76 27.19 40.00 -12.81 QP H 108.2667 14.76 10.46 25.22 43.50 -18.28 QP H 193.0945 13.99 11.56 25.55 43.50 -17.95 QP H 279.0436 8.41 12.03 20.44 46.00 -25.77 QP H 279.0436 8.41 12.03 20.44 46.00 -17.80 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m
H 108.2667 14.76 10.46 25.22 43.50 -18.28 QP H 193.0945 13.99 11.56 25.55 43.50 -17.95 QP H 258.3263 9.15 11.08 20.23 46.00 -25.77 QP H 279.0436 8.41 12.03 20.44 46.00 -25.56 QP H 616.3718 8.15 20.05 28.20 46.00 -17.80 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m Margin: Margin: 32 1 2 3 5 3 5 5 4
H 108.2667 14.76 10.46 25.22 43.50 -18.28 QP H 193.0945 13.99 11.56 25.55 43.50 -17.95 QP H 258.3263 9.15 11.08 20.23 46.00 -25.77 QP H 279.0436 8.41 12.03 20.44 46.00 -25.56 QP H 616.3718 8.15 20.05 28.20 46.00 -17.80 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m dBu
H 193.0945 13.99 11.56 25.55 43.50 -17.95 QP H 258.3263 9.15 11.08 20.23 46.00 -25.77 QP H 279.0436 8.41 12.03 20.44 46.00 -25.56 QP H 616.3718 8.15 20.05 28.20 46.00 -17.80 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit Ximit: Margin: Margin: 72.0 dBuV/m Imit: Margin: Imit: Margin: Imit: Margin: Imit: Imit: Margin: Imit:
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H 616.3718 8.15 20.05 28.20 46.00 -17.80 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m Image: all all all all all all all all all al
Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m





UT:		Smart F	hone		Model N	0.:	K9		
Temperatur	e:	20 ℃			Relative	Humidity:	48%		
Test Mode:		802.11b	/g/n20/n4	C	Test By:		Allen Liu	ı	
All the modu	ulation mo		-		-	ult was rep	ort as bel	ow:	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Chann	el (2412 M	Hz)(802.11 k)Above 1G	i		
4824.513	61.91	5.21	35.59	44.30	58.41	74.00	-15.59	Pk	Vertical
4824.513	40.87	5.21	35.59	44.30	37.37	54.00	-16.63	AV	Vertical
7235.332	61.27	6.48	36.27	44.60	59.42	74.00	-14.58	Pk	Vertical
7235.332	39.78	6.48	36.27	44.60	37.93	54.00	-16.07	AV	Vertical
4824.387	62.81	5.21	35.55	44.30	59.27	74.00	-14.73	Pk	Horizontal
4824.387	40.81	5.21	35.55	44.30	37.27	54.00	-16.73	AV	Horizontal
7235.849	60.93	6.48	36.27	44.52	59.16	74.00	-14.84	Pk	Horizontal
7235.849	40.70	6.48	36.27	44.52	38.93	54.00	-15.07	AV	Horizontal
		N	liddle Chan	nel (2437 N	/Hz)(802.11	b)Above 1	G	1	
4874.301	63.42	5.21	35.66	44.20	60.09	74.00	-13.91	Pk	Vertical
4874.301	40.06	5.21	35.66	44.20	36.73	54.00	-17.27	AV	Vertical
7310.934	59.03	7.10	36.50	44.43	58.20	74.00	-15.80	Pk	Vertical
7310.934	41.90	7.10	36.50	44.43	41.07	54.00	-12.93	AV	Vertical
4873.218	62.57	5.21	35.66	44.20	59.24	74.00	-14.76	Pk	Horizontal
4873.218	40.11	5.21	35.66	44.20	36.78	54.00	-17.22	AV	Horizontal
7311.420	63.15	7.10	36.50	44.43	62.32	74.00	-11.68	Pk	Horizontal
7311.420	39.91	7.10	36.50	44.43	39.08	54.00	-14.92	AV	Horizontal
	[High Chann	el (2462 M	Hz)(802.11 k	o)Above 10	3		
4923.011	63.54	5.21	35.52	44.21	60.06	74.00	-13.94	Pk	Vertical
4923.011	40.63	5.21	35.52	44.21	37.15	54.00	-16.85	AV	Vertical
7385.881	63.04	7.10	36.53	44.60	62.07	74.00	-11.93	Pk	Vertical
7385.881	40.15	7.10	36.53	44.60	39.18	54.00	-14.82	AV	Vertical
4923.384	61.30	5.21	35.52	44.21	57.82	74.00	-16.18	Pk	Horizontal
4923.384	41.76	5.21	35.52	44.21	38.28	54.00	-15.72	AV	Horizontal
7385.539	61.80	7.10	36.53	44.60	60.83	74.00	-13.17	Pk	Horizontal
7385.539	40.09	7.10	36.53	44.60	39.12	54.00	-14.88	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(3)"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.





Spurious Emission in Restricted Band 2310MHz -18000MHz All the modulation modes have been tested, and the worst result was report as below:									
All the mod	Meter		Antenna	Preamp	Emission		as below.		
Frequency	Reading	Cable Loss	Factor	Factor	Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				802	.11b				
2310.00	59.77	2.97	27.80	43.80	46.74	74	-27.26	Pk	Horizontal
2310.00	41.11	2.97	27.80	43.80	28.08	54	-25.92	AV	Horizontal
2310.00	60.98	2.97	27.80	43.80	47.95	74	-26.05	Pk	Vertical
2310.00	41.92	2.97	27.80	43.80	28.89	54	-25.11	AV	Vertical
2390.00	60.01	3.14	27.21	43.80	46.56	74	-27.44	Pk	Vertical
2390.00	39.05	3.14	27.21	43.80	25.60	54	-28.40	AV	Vertical
2390.00	61.15	3.14	27.21	43.80	47.70	74	-26.30	Pk	Horizontal
2390.00	40.13	3.14	27.21	43.80	26.68	54	-27.32	AV	Horizontal
2483.50	61.95	3.58	27.70	44.00	49.23	74	-24.77	Pk	Vertical
2483.50	42.28	3.58	27.70	44.00	29.56	54	-24.44	AV Pk	Vertical
2483.50	61.61	3.58	27.70	44.00	48.89 27.75	74 54	-25.11	AV	Horizontal Horizontal
2483.50	40.47	3.58	27.70	44.00 802		54	-26.25	AV	HUHZUHIAI
2310.00	60.43	2.97	27.80	43.80	47.40	74	-26.60	Pk	Horizontal
2310.00	42.46	2.97	27.80	43.80	29.43	54	-24.57	AV	Horizontal
2310.00	59.83	2.97	27.80	43.80	46.80	74	-27.20	Pk	Vertical
2310.00	42.06	2.97	27.80	43.80	29.03	54	-24.97	AV	Vertical
2390.00	62.42	3.14	27.21	43.80	48.97	74	-25.03	Pk	Vertical
2390.00	39.86	3.14	27.21	43.80	26.41	54	-27.59	AV	Vertical
2390.00	59.30	3.14	27.21	43.80	45.85	74	-28.15	Pk	Horizontal
2390.00	41.93	3.14	27.21	43.80	28.48	54	-25.52	AV	Horizontal
2483.50	62.64	3.58	27.70	44.00	49.92	74	-24.08	Pk	Vertical
2483.50	40.30	3.58	27.70	44.00	27.58	54	-26.42	AV	Vertical
2483.50	59.92	3.58	27.70	44.00	47.20	74	-26.80	Pk	Horizontal
2483.50	42.60	3.58	27.70	44.00	29.88	54	-24.12	AV	Horizontal
				802.1		· · · · · · · · · · · · · · · · · · ·		1	
2310.00	61.39	2.97	27.80	43.80	48.36	74	-25.64	Pk	Horizontal
2310.00	40.29	2.97	27.80	43.80	27.26	54	-26.74	AV	Horizontal
2310.00	59.28	2.97	27.80	43.80	46.25	74	-27.75	Pk	Vertical
2310.00	41.82	2.97	27.80	43.80	28.79	54	-25.21	AV	Vertical
2390.00	59.02	3.14	27.21	43.80	45.57	74	-28.43	Pk	Vertical
2390.00	40.71	3.14	27.21	43.80	27.26	54	-26.74	AV	Vertical
2390.00	61.85	3.14	27.21	43.80	48.40	74	-25.60	Pk	Horizontal
2390.00	41.10	3.14	27.21	43.80	27.65	54 74	-26.35	AV Pk	Horizontal
2483.50	59.93 30.05	3.58	27.70	44.00	47.21	74 54	-26.79	AV	Vertical Vertical
2483.50 2483.50	39.05 62.31	3.58 3.58	27.70 27.70	44.00 44.00	26.33 49.59	54 74	-27.67 -24.41	Pk	Horizontal
2483.50	42.51	3.58	27.70	44.00	49.59 29.79	54	-24.41	AV	Horizontal
2-100.00	72.01	0.00	21.10		1n40		67.61		. ion_ontai
2310.00	62.38	2.97	27.80	43.80	49.35	74	-24.65	Pk	Horizontal
2310.00	41.57	2.97	27.80	43.80	28.54	54	-25.46	AV	Horizontal
2310.00	60.35	2.97	27.80	43.80	47.32	74	-26.68	Pk	Vertical
2310.00	42.56	2.97	27.80	43.80	29.53	54	-24.47	AV	Vertical
2390.00	60.29	3.14	27.21	43.80	46.84	74	-27.16	Pk	Vertical
2390.00	41.57	3.14	27.21	43.80	28.12	54	-25.88	AV	Vertical
2390.00	60.28	3.14	27.21	43.80	46.83	74	-27.17	Pk	Horizontal
2390.00	41.57	3.14	27.21	43.80	28.12	54	-25.88	AV	Horizontal
2483.50	61.26	3.58	27.70	44.00	48.54	74	-25.46	Pk	Vertical
2483.50	41.45	3.58	27.70	44.00	28.73	54	-25.27	AV	Vertical
2483.50	62.38	3.58	27.70	44.00	49.66	74	-24.34	Pk	Horizontal
2483.50	42.25	3.58	27.70	44.00	29.53	54	-24.47	AV	Horizontal

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Spurious Emission in Restricted Bands 3260MHz- 18000MHz

All the modulation modes have been tested, the worst result was report as below:

Frequenc	Reading	Cable	Antenna	Preamp	Emission	Limits	Margin	Detector	
у	Level	Loss	Factor	Factor	Level	LIIIIIIS	Margin	Delector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	61.50	4.04	29.57	44.70	50.41	74	-23.59	Pk	Vertical
3260	47.01	4.04	29.57	44.70	35.92	54	-18.08	AV	Vertical
3260	61.99	4.04	29.57	44.70	50.90	74	-23.10	Pk	Horizontal
3260	49.71	4.04	29.57	44.70	38.62	54	-15.38	AV	Horizontal
3332	63.99	4.26	29.87	44.40	53.72	74	-20.28	Pk	Vertical
3332	49.45	4.26	29.87	44.40	39.18	54	-14.82	AV	Vertical
3332	60.00	4.26	29.87	44.40	49.73	74	-24.27	Pk	Horizontal
3332	49.41	4.26	29.87	44.40	39.14	54	-14.86	AV	Horizontal
17797	43.34	10.99	43.95	43.50	54.78	74	-19.22	Pk	Vertical
17797	30.26	10.99	43.95	43.50	41.70	54	-12.30	AV	Vertical
17788	44.25	11.81	43.69	44.60	55.15	74	-18.85	Pk	Horizontal
17788	29.59	11.81	43.69	44.60	40.49	54	-13.51	AV	Horizontal

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Certificate #4298.01

"802.11 b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW = 100KHz VBW \ge 3*RBW Sweep = auto Detector function = peak Trace = max hold



7.3.6 Test Results

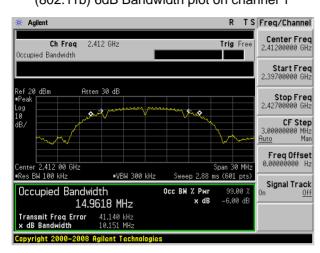
EUT:	Smart Phone	Model No.:	К9
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

Mode	Channel	Frequency	6dB bandwidth	Limit	Result	
Mode	Channer	(MHz)	(MHz)	(kHz)		
	Low	2412	10.151	500	Pass	
802.11b	Middle	2437	10.119	500	Pass	
	High	2462	10.132	500	Pass	
	Low	2412	16.566	500	Pass	
802.11g	Middle	2437	16.572	500	Pass	
	High	2462	16.576	500	Pass	
	Low	2412	17.792	500	Pass	
802.11n20	Middle	2437	17.791	500	Pass	
	High	2462	17.730	500	Pass	
	Low	2422	36.595	500	Pass	
802.11n40	Middle	2437	36.586	500	Pass	
	High	2452	36.580	500	Pass	

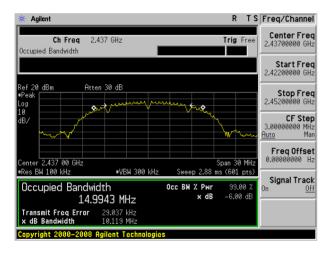


(802.11b) 6dB Bandwidth plot on channel 1

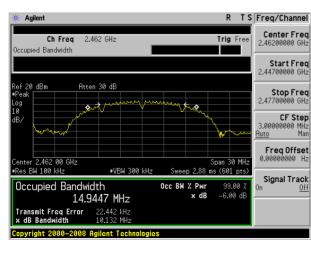
Test plot



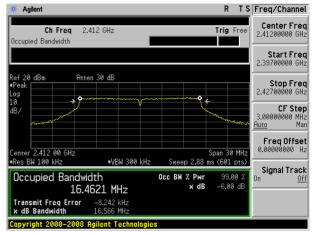
(802.11b) 6dB Bandwidth plot on channel 6



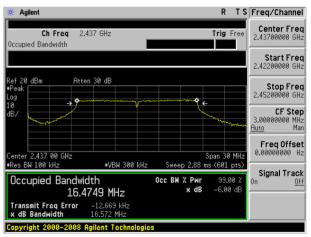
(802.11b) 6dB Bandwidth plot on channel 11



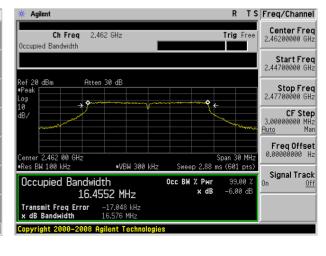
(802.11g) 6dB Bandwidth plot on channel 1



(802.11g) 6dB Bandwidth plot on channel 6



(802.11g) 6dB Bandwidth plot on channel 11



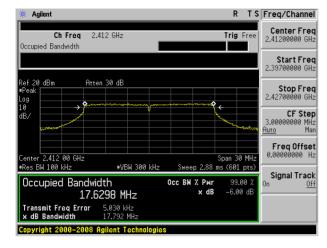


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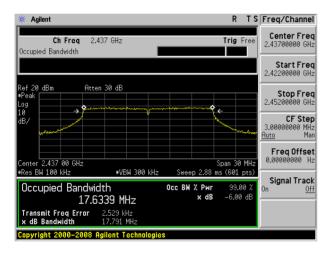
Test plot

(802.11 N20) 6dB Bandwidth plot on channel 1

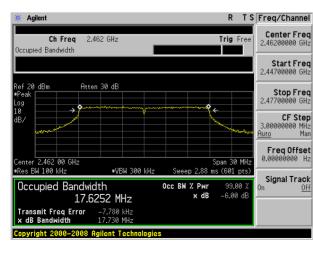
(802.11 N40) 6dB Bandwidth plot on channel 3

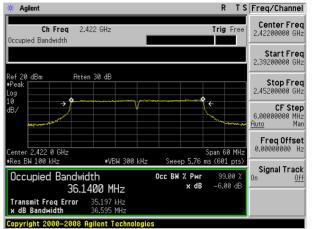


(802.11 N20) 6dB Bandwidth plot on channel 6

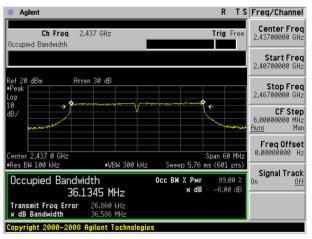


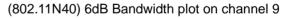
(802.11N20) 6dB Bandwidth plot on channel 11

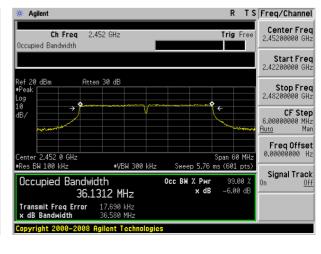




(802.11N40) 6dB Bandwidth plot on channel 6









7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if T \leq 6.25 microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\ge RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on}/T_{total}



7.4.6 Test Results

EUT:	Smart Phone	Model No.:	К9
Temperature:	20 °C	Relative Humidity:	48%
Test Mode: 802.11b/g/n20/n40		Test By:	Allen Liu
			Dutv

	Mode	Data rate	Channel	T _{on}	T _{total}	Duty Cycle	Cycle Factor (dB)	VBW Setting
Γ	802.11b	1Mbps	6	-	-	100%	0	10Hz
	802.11g	6Mbps	6	-	-	100%	0	1KHz
	802.11n HT20	MCS0	6	-	-	100%	0	1KHz
	802.11n HT40	MCS0	6	-	-	100%	0	3KHz

 802.11n H140
 MCS0
 6
 100%
 0
 3KHz

 Note: All the modulation modes were tested, the data of the worst mode are described in the following table.



7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

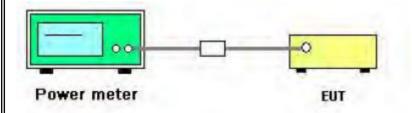
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	Peak

7.5.4 Test Setup



7.5.5 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the *DTS bandwidth* and shall utilize a fast-responding diode detector.

7.5.6 EUT opration during Test

The EUT was programmed to be in continuously transmitting mode.



7.5.7 Test Results

EUT:		Smart Phone			Model No.:	K9	К9		
Temperature:	2	20 ℃			Relative Humidi	ty: 48%	8%		
Test Mode:	8				Test By:	Allen Liu			
	ľ	002.1			1001 Dy.				
Test Channel (MH		-	Power Setting	Duty Cycle Factor (dB)	Peak Output Power (dBm)	Maximum Output Power(dBm)	LIMIT (dBm)	Verdict	
					802.11b				
1	241	2	Default	0	15.4	15.4	30	PASS	
6	243	7	Default	0	17.0	17.0	30	PASS	
11	246	2	Default	0	16.4	16.4	30	PASS	
			802.11g						
1	241	2	Default	0	12.1	12.1	30	PASS	
6	243	7	Default	0	14.2	14.2	30	PASS	
11	246	2	Default	0	13.4	13.4	30	PASS	
					802.11n HT20				
1	241	2	Default	0	11.6	11.6	30	PASS	
6	243	7	Default	0	13.5	13.5	30	PASS	
11	246	2	Default	0	12.8	12.8	30	PASS	
					802.11n HT40				
3	242	2	Default	0	11.1	11.1	30	PASS	
6	243	7	Default	0	12.6	12.6	30	PASS	
9	245	2	Default	0	11.9	11.9	30	PASS	

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7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to: 3 kHz \leq RBW \leq 100 kHz.

d) Set the VBW \geq 3 *RBW.

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

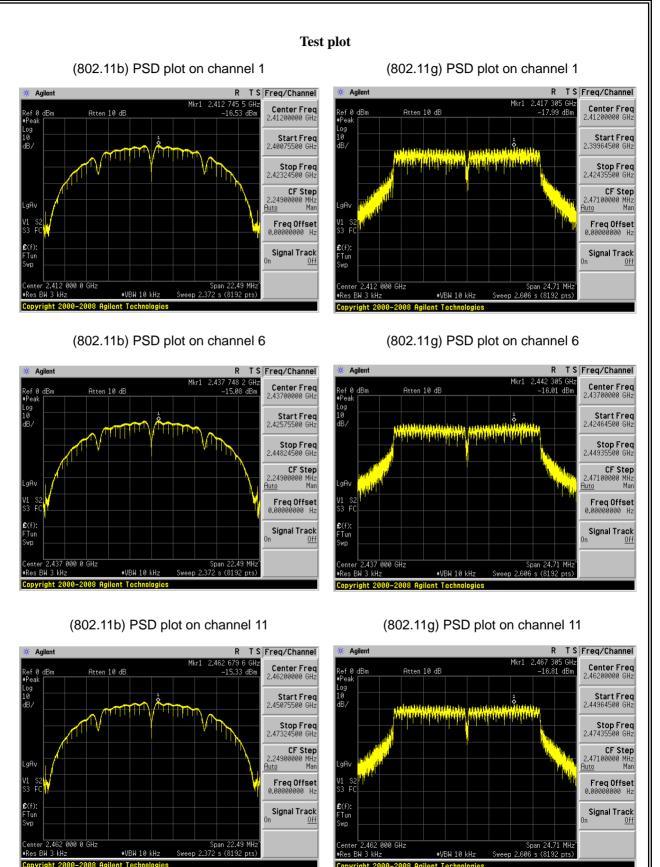
EUT:	T: Smart Phon		Model No.:	K9	K9	
Temperature: 20 °C			Relative Humidity	r: 48%	48%	
est Mode:	802.11b/g	g/n20/n40	Test By:	Allen Liu	Allen Liu	
Test Channel	Frequency (MHz)	Duty Cycle Factor(dB)	Peak Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Verdict	
	802.11b					
1	2412	0	-16.53	8	PASS	
6	2437	0	-15.08	8	PASS	
11	2462	0	-15.33	8	PASS	
	802.11g					
1	2412	0	-17.99	8	PASS	
6	2437	0	-16.01	8	PASS	
11	2462	0	-16.81	8	PASS	
			802.11n HT20			
1	2412	0	-17.67	8	PASS	
6	2437	0	-16.47	8	PASS	
11	2462	0	-16.40	8	PASS	
			802.11n HT40			
3	2422	0	-19.72	8	PASS	
6	2437	0	-17.99	8	PASS	
9	2452	0	-19.74	8	PASS	

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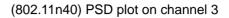


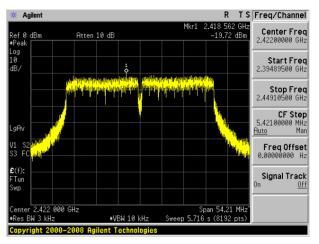
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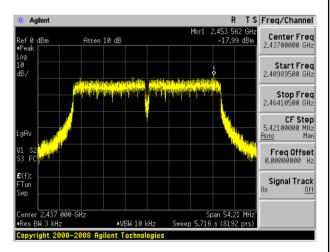
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Test plot

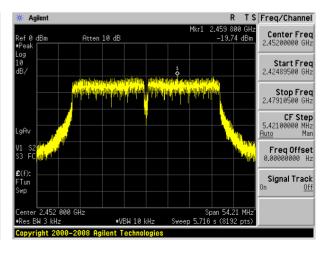




(802.11n40) PSD plot on channel 6

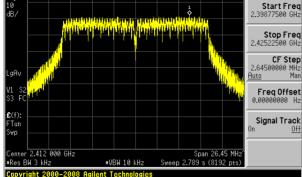




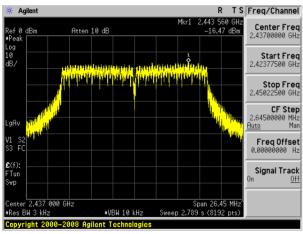


Agilent R T S Freq/Channel Rof @ dBm Atten 10 dB -17.67 dBm Center Freq 2.41200000 GHz Log -17.67 dBm Start Freq 2.39877500 GHz

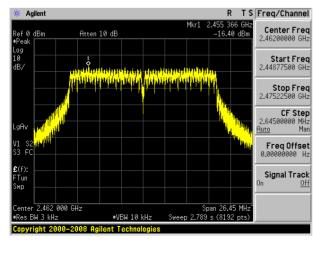
(802.11n20) PSD plot on channel 1



(802.11n20) PSD plot on channel 6



(802.11n20) PSD plot on channel 11





7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, 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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

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.

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.

Repeat above procedures until all measured frequencies were complete.

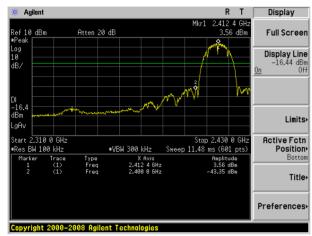


7.7.6 **Test Results**

EUT:	Smart Phone	Model No.:	К9
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

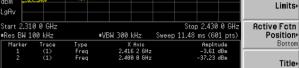
Test plot For

802.11b: Band Edge-Low Channel



Display 2.416 Atten 20 dB -3.61 Full Screen of 10 dBr dBrr Log 10 Display Line -23.61 dBm Off Limits→

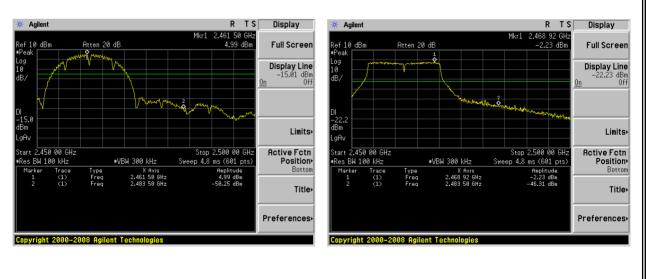
802.11g: Band Edge-Low Channel



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802.11b: Band Edge-High Channel



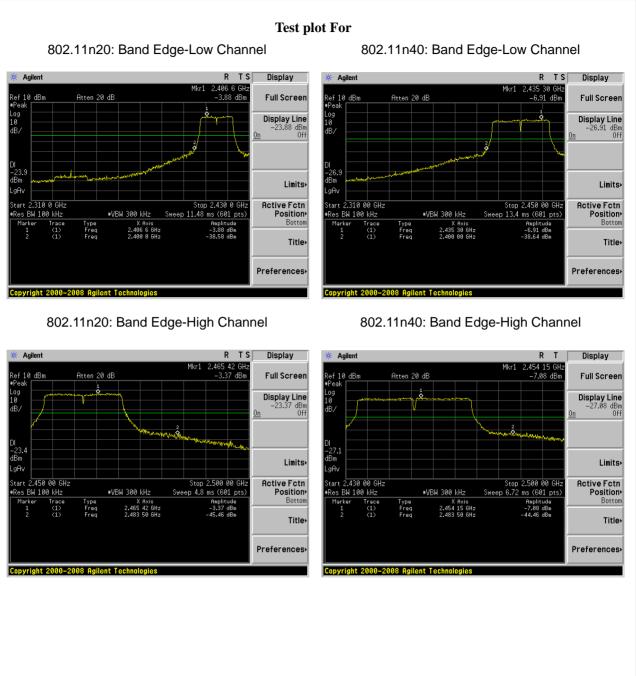


Bottor

Title

Preferences.







7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 9KHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

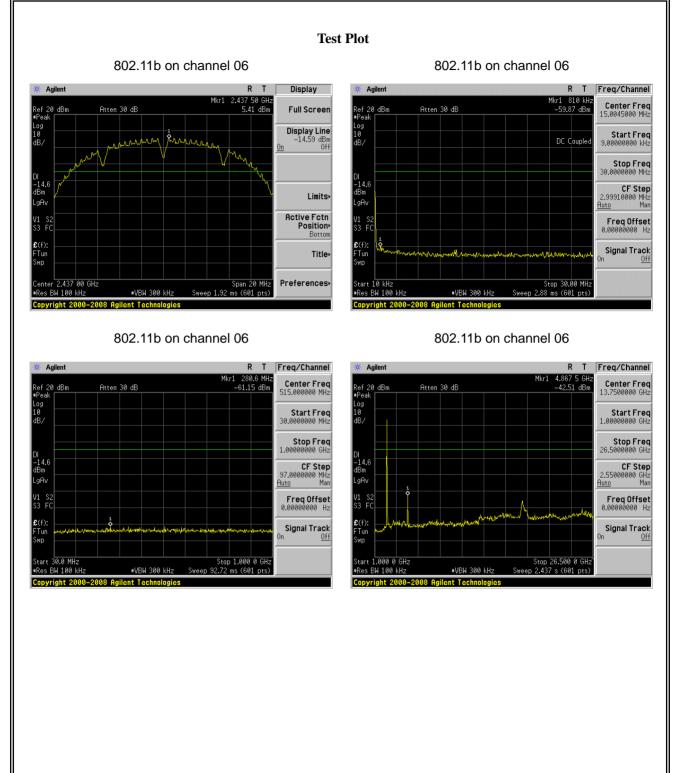




Test Plot 802.11b on channel 01 802.11b on channel 01 🔆 Agilent R TS Display 🔆 Agilent R TS Freq/Channel Mkr1 2.413 00 GH 3.52 dBm Mkr1 360 kHz -57.81 d<u>B</u>m Center Freq 15.0045000 MHz Atten 30 dB Full Screen Ref 20 dBn Atten 30 dB Ref 20 dBm Log 10 dB/ Display Line -16.48 dBm Off Log 10 1 mm Start Freq 9.0000000 kHz DC Coupled <u>0n</u> Stop Freq 30.000000 MHz u -16.5 dBm –16.5 dBm CF Step 2.99910000 MHz A<u>uto</u> Man Limits gΑι LgAv Active Fctn Position> Bottom V1 S; S3 F(V1 S2 S3 F0 Freq Offset 0.00000000 Hz **£**(f): **£**(f): Signal Track FTun Swp FTun Swp Title Span 20 MHz Sweep 1.92 ms (601 pts) Center 2.412 00 GHz #Res BW 100 kHz Stop 30.00 MHz Sweep 2.88 ms (601 pts) Preferences Start 10 kHz ≢Res BW 100 kHz ≢VBW 300 kHz #VBW 300 kHz yright 2000–2008 Agilent Technologies yright 2000-2008 Agilent Techn 802.11b on channel 01 802.11b on channel 01 R TS Freq/Channel R TS Freq/Channel 🔆 Agilent die. Agilent . 400.2 MHz -61.56 dBm 4.825 0 GHz -42.28 dBm Center Freq 13.7500000 GHz Center Freq 515.000000 MHz Ref 20 dBm #Peak Log 10 Atten 30 dB Ref 20 dBm Atten 30 dB *Pe Log 10 dB/ Start Freq 30.0000000 MHz Start Freq 1.00000000 GHz Stop Freq 1.0000000 GHz Stop Freq 26.5000000 GHz –16.5 dBm -16.5 CF Step CF Step 2.55000000 GHz Auto Man 97.0000000 MHz Auto Man gA∖ .gAv <u>Auto</u> Auto V1 S; S3 F(Freq Offset 0.00000000 Hz Freq Offset 0.00000000 Hz FC **£**(f): FTun £(f): Signal Track Signal Track Tun Ûn <u>0ff</u> wр Start 30.0 MHz #Res BW 100 kHz Stop 1.000 0 GHz Sweep 92.72 ms (601 pts) Stop 26.500 0 GHz Sweep 2.437 s (601 pts) Start 1.000 0 GHz #VBW 300 kHz #VBW 300 kHz ∎Res BW 100 kHz Copyright 2000–2008 Agilent Technologies Copyright 2000–2008 Agilent Technologies







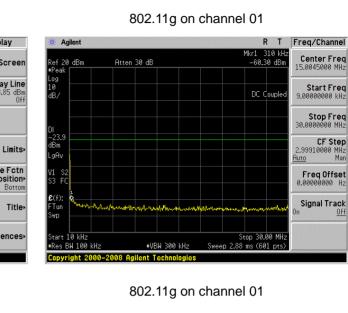


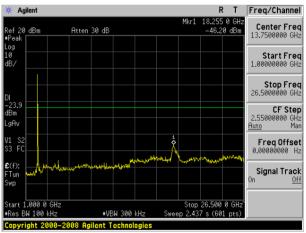
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Test Plot 802.11b on channel 11 802.11b on channel 11 🔆 Agilent R T Display 🔆 Agilent R T Freq/Channel 2.462 50 GH: 4.95 dBm Mkr1 1.86 MH: -60.81 dBm Mkr1 Center Freq 15.0045000 MHz Atten 30 dB Full Screen Ref 20 dBn Atten 30 dB Ref 20 dBm Log 10 dB/ Display Line -15.05 dBm Off Log 10 * Start Freq 9.0000000 kHz DC Coupled 1 mm 0n Stop Freq 30.000000 MHz u –15.1 dBm –15.1 dBm CF Step 2.99910000 MHz A<u>uto</u> Man Limits gÂ∖ LgAv Active Fctn Position> Bottom M1 S; S3 F(V1 S2 S3 FC Freq Offset 0.00000000 Hz **£**(f): **£**(f): Signal Track FTun Swp Title FTun 'n Span 20 MHz Sweep 1.92 ms (601 pts) Center 2.462 00 GHz #Res BW 100 kHz Stop 30.00 MHz Sweep 2.88 ms (601 pts) Preferences Start 10 kHz ≢Res BW 100 kHz ≢VBW 300 kHz #VBW 300 kHz yright 2000–2008 Agilent Technologies yright 2000-2008 Agilent Techn 802.11b on channel 11 802.11b on channel 11 R T Freq/Channel R T Freq/Channel 🔆 Agilent diff. Agilent – 502.1 MHz –60.94 dBm 4.910 0 GHz -45.17 dBm Mkr1 Center Freq 13.7500000 GHz Center Freq 515.000000 MHz Ref 20 dBm #Peak Log 10 Atten 30 dB Ref 20 dBm Atten 30 dB *Pea Log 10 dB/ Start Freq 30.0000000 MHz Start Freq 1.00000000 GHz Stop Freq 1.0000000 GHz Stop Freq 26.5000000 GHz –15.1 dBm –15.1 dBm CF Step CF Step 2.55000000 GHz Auto Man 97.0000000 MHz Auto Man gA∖ .gAv <u>Auto</u> Auto V1 S3 S3 F0 Freq Offset 0.00000000 Hz \$ Freq Offset 0.00000000 Hz FC **£**(f): FTun £(f): Signal Track Signal Track Tun Ûn <u>0ff</u> wр Start 30.0 MHz #Res BW 100 kHz Stop 1.000 0 GHz Sweep 92.72 ms (601 pts) Stop 26.500 0 GHz Sweep 2.437 s (601 pts) Start 1.000 0 GHz #VBW 300 kHz #VBW 300 kHz ∎Res BW 100 kHz Copyright 2000–2008 Agilent Technologies Copyright 2000–2008 Agilent Technologies

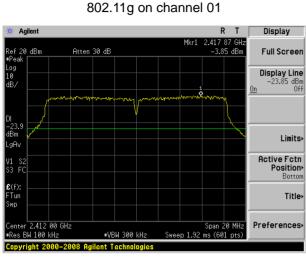




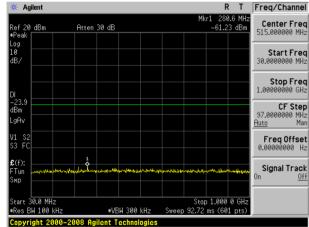








802.11g on channel 01



Off





802.11g on channel 06 802.11g on channel 06 🔆 Agilent R Т Display 🔆 Agilent RT Freq/Channel 2.441 13 GH: -2.01 dBm Mkr1 1.16 MH: -61.64 dBm Mkr1 Center Freq 15.0045000 MHz Atten 30 dB Full Screen Ref 20 dBn Atten 30 dB Ref 20 dBm Log 10 dB .09 10 Display Line -22.01 dBm Off Start Freq 9.0000000 kHz DC Coupled 0n Stop Freq 30.000000 MHz –22.0 dBm **CF Step** 2.99910000 MHz <u>Auto</u> Man –22. dBm Limits gΑι LgAv Active Fctn Position> Bottom V1 S; S3 F(V1 S2 S3 FC Freq Offset 0.00000000 Hz **£**(f): **£**(f): Signal Track FTun Swp Title FTun 'n Span 20 MHz Sweep 1.92 ms (601 pts) Center 2.437 00 GHz ≢Res BW 100 kHz Stop 30.00 MHz Sweep 2.88 ms (601 pts) Preferences Start 10 kHz ≢Res BW 100 kHz ≢VBW 300 kHz #VBW 300 kHz yright 2000–2008 Agilent Technologies Copyright 2000-2008 Agilent Techr 802.11g on channel 06 802.11g on channel 06 R T Freq/Channel R T Freq/Channel 🔆 Agilent Agilent 18.170 0 GHz -46.10 dBm 639.5 MHz Center Freq 515.000000 MHz Center Freq 13.7500000 GHz Atten 30 dB Atten 30 dB Ref 20 dBm -62.00 dBm Ref20 ≢Peak [dBn Log 10 dB/ Log 10 Start Freq 30.0000000 MHz Start Freq 1.00000000 GHz Stop Freq 1.0000000 GHz Stop Freq 26.5000000 GHz –22.0 dBm –22.0 dBm CF Step CF Step 97.0000000 MHz Auto Man 2.55000000 GHz Auto Man gA∖ .gAv <u>Auto</u> <u>Auto</u> V1 S; S3 F(Freq Offset 0.00000000 Hz 10 Freq Offset 0.00000000 Hz **£**(f): FTun 10 **£**(f): Signal Track Signal Track Tun Ûn Off wр Start 30.0 MHz #Res BW 100 kHz Stop 1.000 0 GHz Sweep 92.72 ms (601 pts) Stop 26.500 0 GHz Sweep 2.437 s (601 pts) Start 1.000 0 GHz #VBW 300 kHz .∎VBW 300 kHz ∎Res BW 100 kHz Copyright 2000-2008 Agilent Technologies Copyright 2000–2008 Agilent Technologies

Test Plot

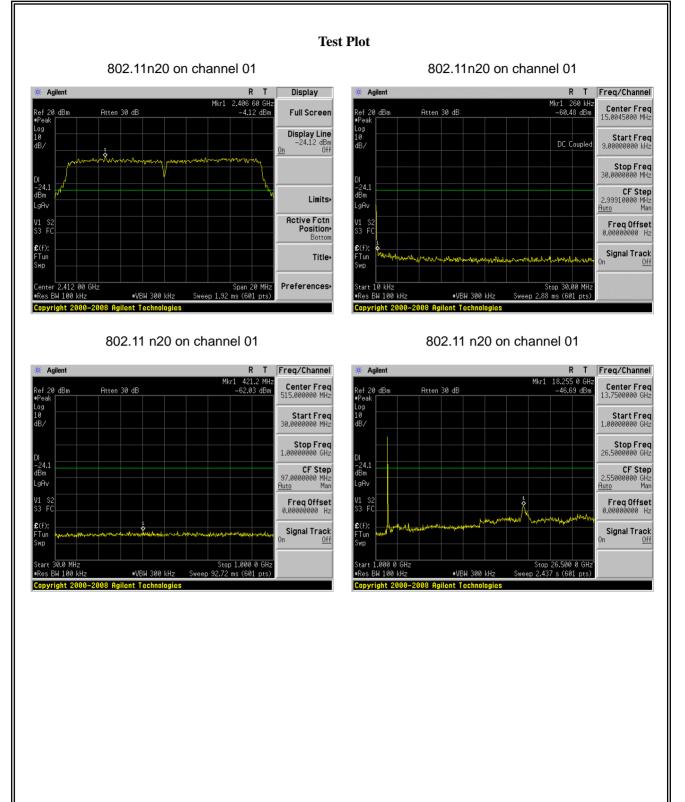




Test Plot 802.11g on channel 11 802.11g on channel 11 🔆 Agilent R Т Display 🔆 Agilent R T Freq/Channel 2.455 10 GH -2.68 dBm Mkr1 260 kH: -60.76 dBm Mkr1 Center Freq 15.0045000 MHz Full Screen Atten 30 dB Ref 20 dBn Atten 30 dB Ref 20 dBm .09 10 Log 10 dB/ Display Line -22.68 dBm Off Start Freq 9.0000000 kHz DC Coupled 0n Stop Freq 30.000000 MHz –22.3 dBm –22. dBm **CF Step** 2.99910000 MHz <u>Auto</u> Man Limits gΑι _gA\ Active Fctn Position> Bottom V1 S; S3 F(Freq Offset 0.00000000 Hz **£**(f): **£**(f): Signal Track FTun Swp Title FTun 'n Span 20 MHz Sweep 1.92 ms (601 pts) Center 2.462 00 GHz ≢Res BW 100 kHz Preferences 15.00 MHz Span 29.99 MHz Sweep 2.88 ms (601 pts) enter ≢VBW 300 kHz ≢Res BW 100 kHz #VBW 300 kHz yright 2000–2008 Agilent Technologies yright 2000-2008 Agilent Techr 802.11g on channel 11 802.11g on channel 11 R T Freq/Channel R T Freq/Channel 🔆 Agilent Agilent l 830.2 MHz -61.71 dBm 18.255 0 GHz -46.35 dBm Center Freq 13.7500000 GHz Center Freq 515.000000 MHz Atten 30 dB Atten 30 dB Ref 20 dBm Ref20 ≢Peak [dBn Log 10 dB/ Log 10 Start Freq 30.0000000 MHz Start Freq 1.00000000 GHz Stop Freq 1.0000000 GHz Stop Freq 26.5000000 GHz –22.7 dBm –22.7 dBm CF Step CF Step 97.0000000 MHz Auto Man 2.55000000 GHz Auto Man gA∖ .gAv <u>Auto</u> <u>Auto</u> Freq Offset 0.00000000 Hz V1 S; S3 F(10 Freq Offset 0.00000000 Hz **£**(f): FTun **£**(f): Signal Track Signal Track Tun Ûn Off мp Start 30.0 MHz #Res BW 100 kHz Stop 1.000 0 GHz Sweep 92.72 ms (601 pts) Stop 26.500 0 GHz Sweep 2.437 s (601 pts) Start 1.000 0 GHz #VBW 300 kHz ■VBW 300 kHz ∎Res BW 100 kHz Copyright 2000-2008 Agilent Technologies Copyright 2000–2008 Agilent Technologies









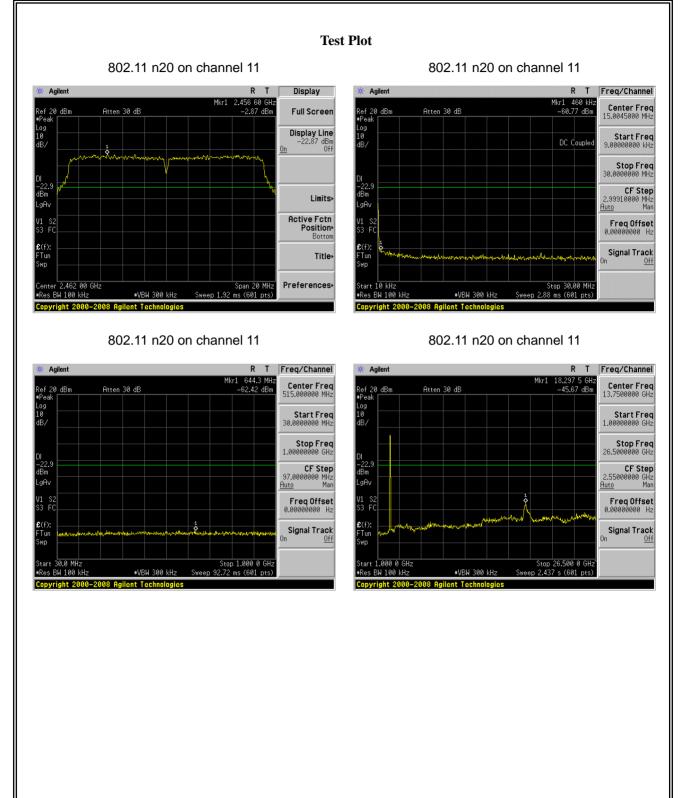


802.11 n20 on channel 06 802.11 n20 on channel 06 🔆 Agilent R T Display 🔆 Agilent R T Freq/Channel Mkr1 2.434 13 GH –2.80 dBm Mkr1 260 kH: -60.27 dBm Center Freq 15.0045000 MHz Atten 30 dB Full Screen Ref 20 dBn Atten 30 dB Ref 20 dBm Log 10 dB/ Log 10 **Display Line** Start Freq 9.0000000 kHz DC Coupled -22.80 dBm Off 1 0n Stop Freq 30.000000 MHz –22.8 dBm –22. dBm CF Step 2.99910000 MHz A<u>uto</u> Man Limits gΑι _gA\ Active Fctn Position> Bottom V1 S; S3 F(Freq Offset 0.00000000 Hz **£**(f): **£**(f): Signal Track FTun Swp Title FTun s 1. 'n Span 20 MHz Sweep 1.92 ms (601 pts) Center 2.437 00 GHz #Res BW 100 kHz Stop 30.00 MHz Sweep 2.88 ms (601 pts) Preferences Start 10 kHz ≢Res BW 100 kHz ≢VBW 300 kHz #VBW 300 kHz yright 2000–2008 Agilent Technologies Copyright 2000–2008 Agilent Technologia 802.11 n20 on channel 06 802.11 n20 on channel 06 R T Freq/Channel R T Freq/Channel 🔆 Agilent Agilent dis Mkr1 434.2 MHz -61.25 dBm 18.212 5 GHz -45.31 dBm Mkr1 Center Freq 515.000000 MHz Center Freq 13.7500000 GHz Atten 30 dB Ref 20 dBm Ref 20 dBm •Peak Atten 30 dB Log 10 dB/ Log 10 Start Freq 30.0000000 MHz Start Freq 1.00000000 GHz Stop Freq 1.0000000 GHz Stop Freq 26.5000000 GHz –22.8 dBm –22.8 dBm CF Step CF Step 97.0000000 MHz Auto Man 2.55000000 GHz Auto Man gA∖ .gAv <u>Auto</u> Auto V1 S3 S3 F0 Freq Offset 0.00000000 Hz ¢ Freq Offset 0.00000000 Hz **£**(f): FTun **£**(f): Signal Track Signal Track Tun Ûn <u>0ff</u> wр Start 30.0 MHz #Res BW 100 kHz Stop 1.000 0 GHz Sweep 92.72 ms (601 pts) Stop 26.500 0 GHz Sweep 2.437 s (601 pts) Start 1.000 0 GHz #VBW 300 kHz #VBW 300 kHz ∎Res BW 100 kHz Copyright 2000–2008 Agilent Technologies Copyright 2000–2008 Agilent Technologies

Test Plot

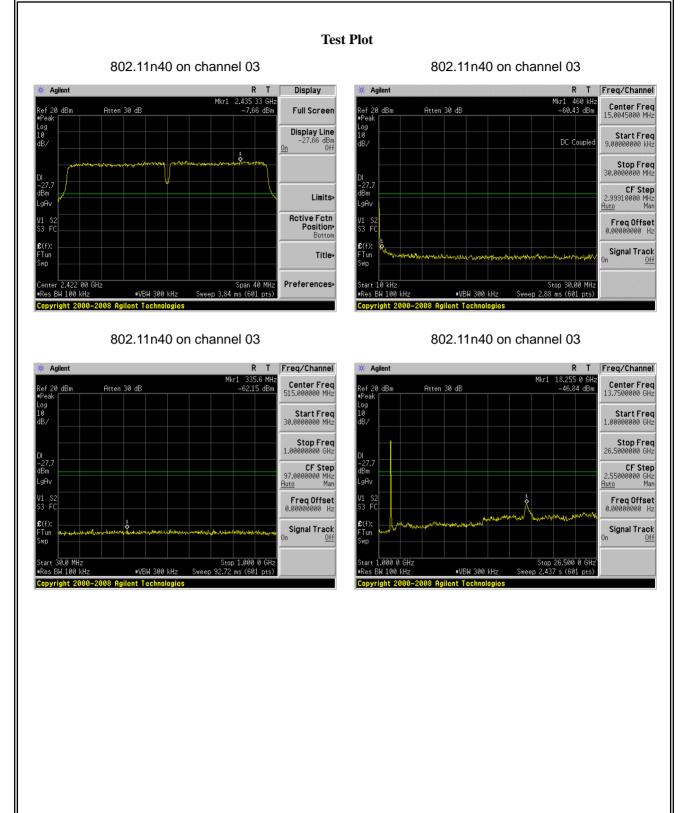




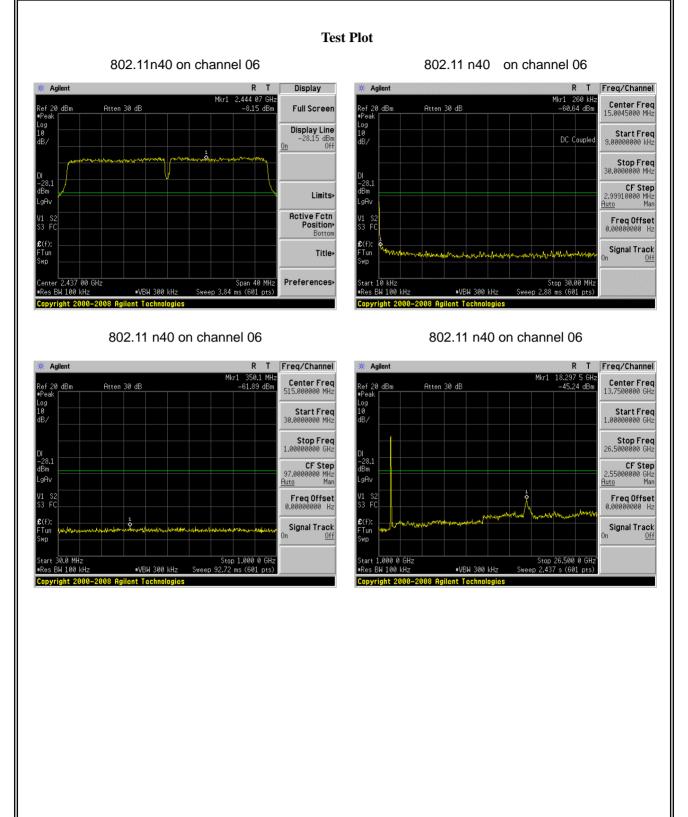




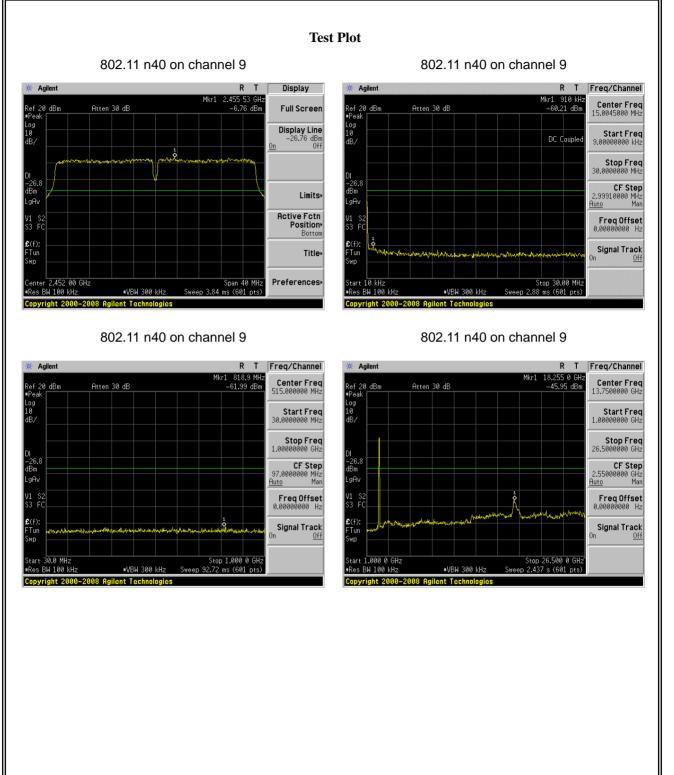














7.9 ANTENNA APPLICATION

7.9.1 Antenna 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.

7.9.2 Result

The EUT antenna is permanent attached FPCB antenna (Gain: 1.2dBi). It comply with the standard requirement.

END OF REPORT