

FCC RF Test Report

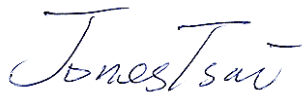
APPLICANT : Yulong Computer Telecommunication Scientific
(Shenzhen) Co., Ltd.
EQUIPMENT : mobile phone
BRAND NAME : Vodafone
MODEL NAME : Vodafone 990N
FCC ID : R38YL990N
STANDARD : FCC Part 15 Subpart C §15.225
CLASSIFICATION : (DXX) Low Power Communication Device Transmitter

The product was received on Jan. 26, 2014 and testing was completed on Aug. 01, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District,
Shenzhen, Guangdong, P.R.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR412407-06D	Rev. 01	Initial issue of report	Aug. 22, 2014

1. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	FCC Rule	Description of Test	Result	Under Limit
3.1	15.207	AC Power Line Conducted Emissions	Complies	8.89 dB at 0.450MHz
3.2	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	74.10 dB at 13.560 MHz
3.3	2.1049	20dB Spectrum Bandwidth	Complies	-
3.4	15.225(d) 15.209	Radiated Emissions	Complies	10.35 dB at 104.690 MHz for Peak
3.5	15.225(e)	Frequency Stability	Complies	-
3.6	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±3.9dB	Confidence levels of 95%



2. GENERAL INFORMATION

2.1 Applicant

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd.

Coolpad Information Harbor, 2nd Mengxi Road, Northern Part of Science & Technology Park, Nanshan district, Shenzhen, P.R.China

2.2 Manufacturer

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd.

Coolpad Information Harbor, 2nd Mengxi Road, Northern Part of Science & Technology Park, Nanshan district, Shenzhen, P.R.China

2.3 Product Details

Items	Description
Tx/Rx Frequency Range	13.553 ~ 13.567MHz
Channel Number	1
20dBW	2.64KHz
99%OBW	2.24KHz
Antenna Type	Loop Antenna
Type of Modulation	ASK

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

2.4 Modification of EUT

No modifications are made to the EUT during all test items.

2.5 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398			
Test Site No.	Sporton Site No.			FCC Registration No.
	TH01-SZ	CO01-SZ	03CH01-SZ	831040
Test Engineer	Fly Liang	Jack Tian	Rock Tang	
Temperature	24~26℃	21~22℃	24~25℃	
Relative Humidity	50~53%	41~42%	48~49%	

2.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.225
- ♦ ANSI C63.4-2003

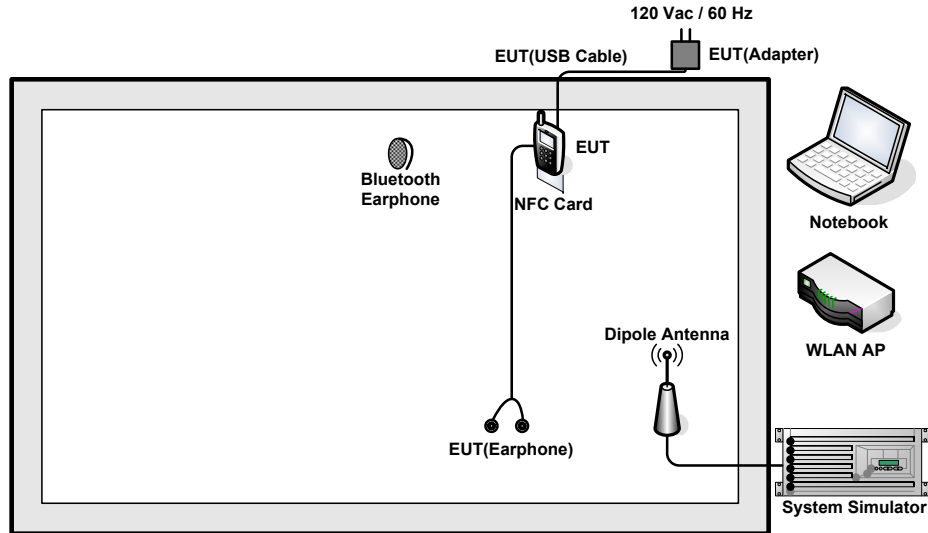
2.7 Test Modes

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

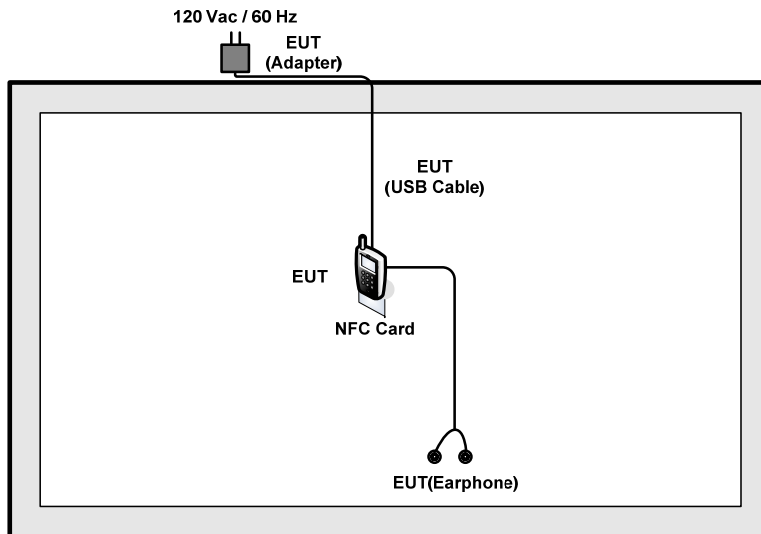
Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz
Note: 1. The EUT was programmed to be in continuously transmitting mode. 2. The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.	

2.8 Test Configurations

<AC Conducted Emissions>



< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



**2.9 Table for Supporting Units**

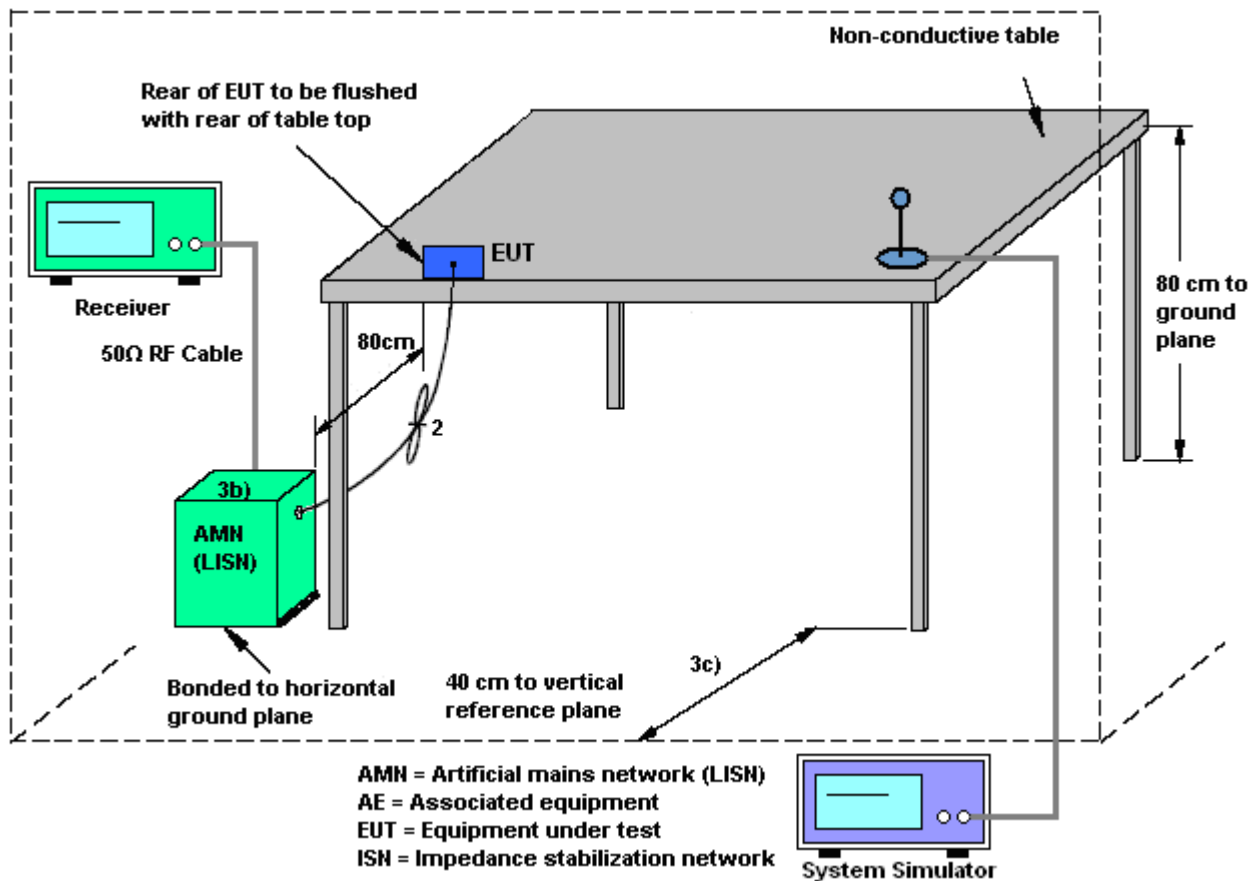
Support Unit	Manufacturer	Model	FCC ID
System Simulator	R&S	CMW 500	N/A
WLAN AP	D-Link	DIR-628	KA2DIR628A2
Bluetooth Earphone	Nokia	BH-108	PYAHS-107W
Notebook	Lenovo	G480	FCC DoC
DC Power Supply	TOPWORD	3303DR	N/A
NFC Card	N/A	N/A	N/A

3. CONDUCTED EMISSION TEST

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test setup



3.3 Test Result of Conducted Emission Test

Please refer to Appendix B.

3.4 AC Power Line Conducted Emissions Measurement

3.4.1 Limit

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.4.2 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

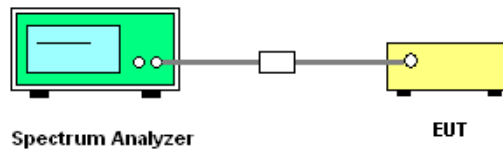
4. CONDUCTED TEST ITEMS

4.1 Measuring Instruments

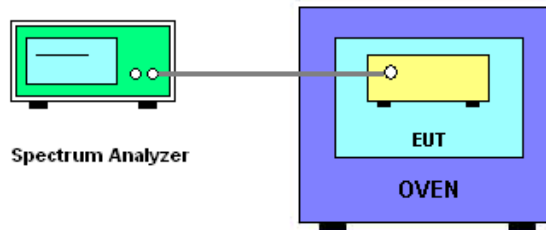
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 20dB Spectrum Bandwidth



4.2.2 Frequency Stability



4.3 Test Result of Conducted Test Items

Please refer to Appendix C.

4.4 20dB Spectrum Bandwidth Measurement

4.4.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band 13.553~13.567MHz

4.4.2 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

4.5 Frequency Stability Measurement

4.5.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

4.5.2 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 100 ppm.
6. Extreme temperature rule is -20°C~50°C.

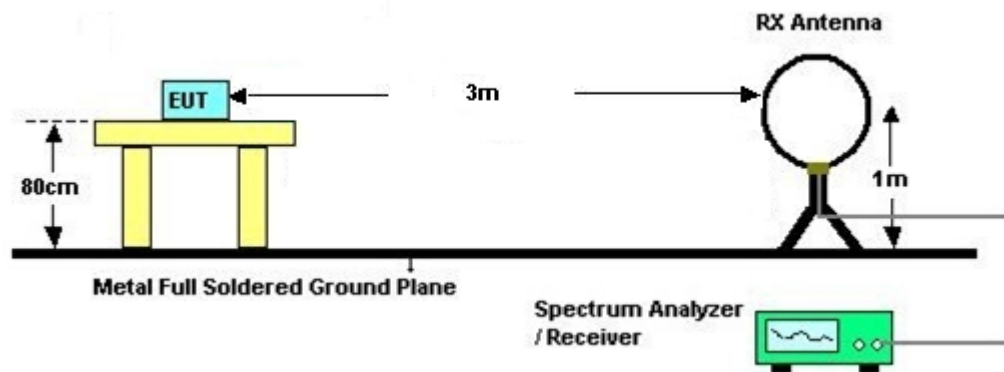
5. RADIATED TEST ITEMS

5.1 Measuring Instruments

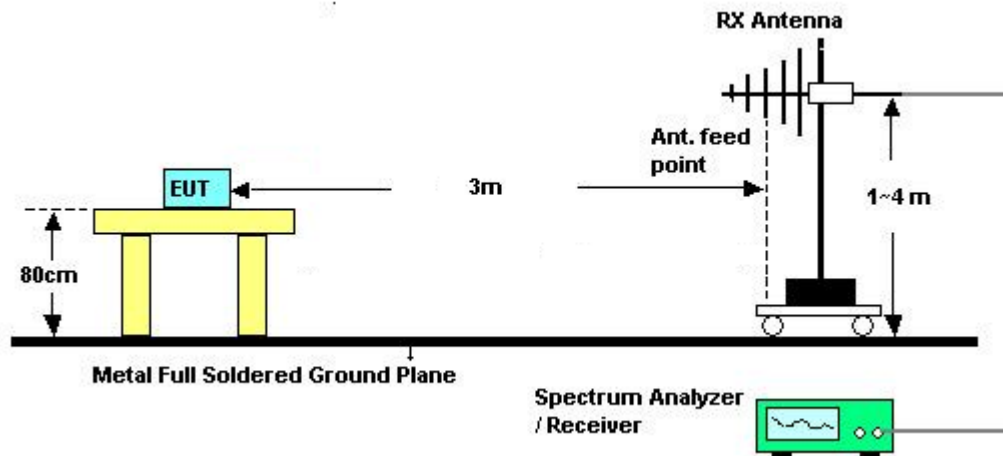
See list of measuring instruments of this test report.

5.2 Test Setup

5.2.1 For radiated emissions below 30MHz



5.2.2 For radiated emissions above 30MHz



5.3 Test Result of Radiated Test Items

Please refer to Appendix D.

5.4 Field Strength of Fundamental Emissions and Mask Measurement

5.4.1 Limit

Rules and specifications	CFR 47 Part 15 section 15.225(a)-(d)			
Description	Compliance with the spectrum mask is tested using a spectrum analyzer with RBW set to a 9kHz for the band 13.553~13.567MHz			
Freq. of Emission (MHz)	Field Strength (μV/m) at 30m	Field Strength (dBμV/m) at 30m	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

5.4.2 Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. Compliance with the spectrum mask is tested using a spectrum analyzer with RBW set to a 9kHz for the band 13.553~13.567MHz.

Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

5.5 Radiated Emissions Measurement

5.5.1 Limit

The field strength of any emissions which appear outside of 13.553~13.567MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (μ V/m)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

5.5.2 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

5.5.3 Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

5.5.4 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

5.5.5 Antenna Anti-Replacement Construction

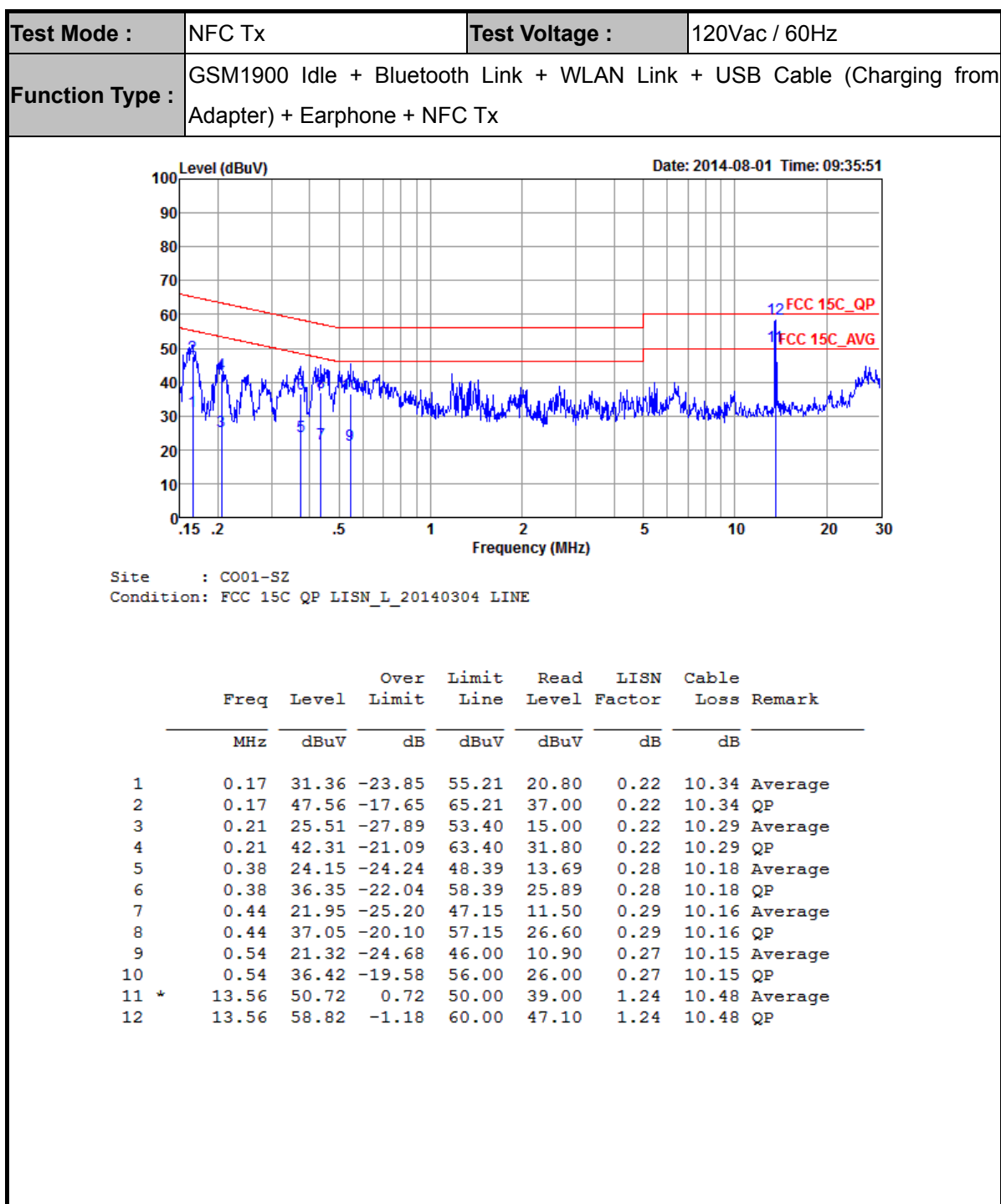
An embedded-in antenna design is used.



6. LIST OF MEASURING EQUIPMENT

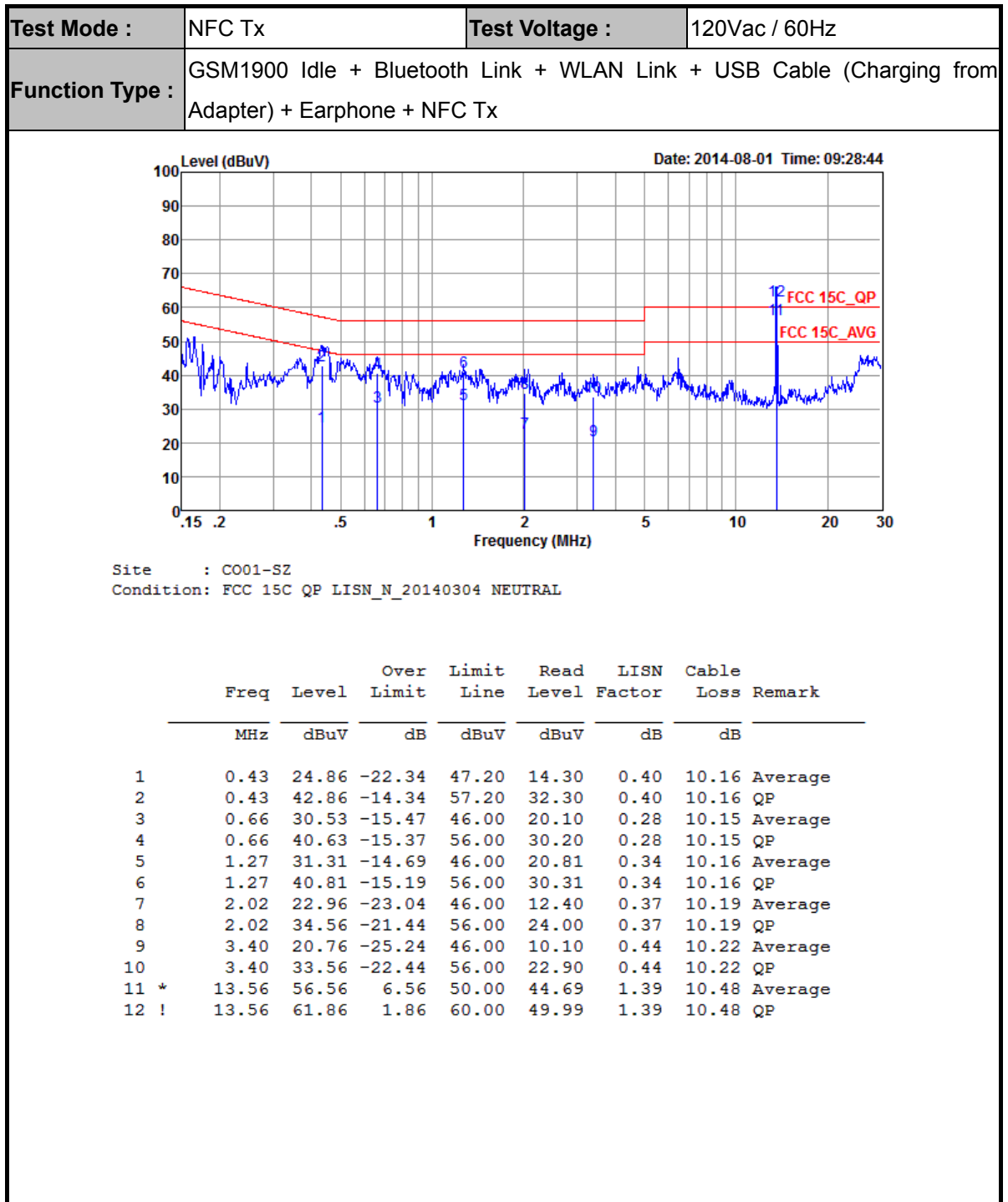
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Aug. 01, 2014	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Aug. 01, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Aug. 01, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Dec. 17, 2013	Aug. 01, 2014	Dec. 16, 2014	Conduction (CO01-SZ)
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 03, 2014	Jul. 16, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	HD20120425	-40℃~150℃	Feb. 21, 2014	Jul. 16, 2014	Feb. 20, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jul. 17, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Jul. 17, 2014	May 08, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Jul. 17, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jul. 17, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001985	100Vac~250Vac	Mar. 25, 2014	Jul. 17, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jul. 17, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jul. 17, 2014	NCR	Radiation (03CH01-SZ)

Appendix B. Test Results of Conducted Emission Test



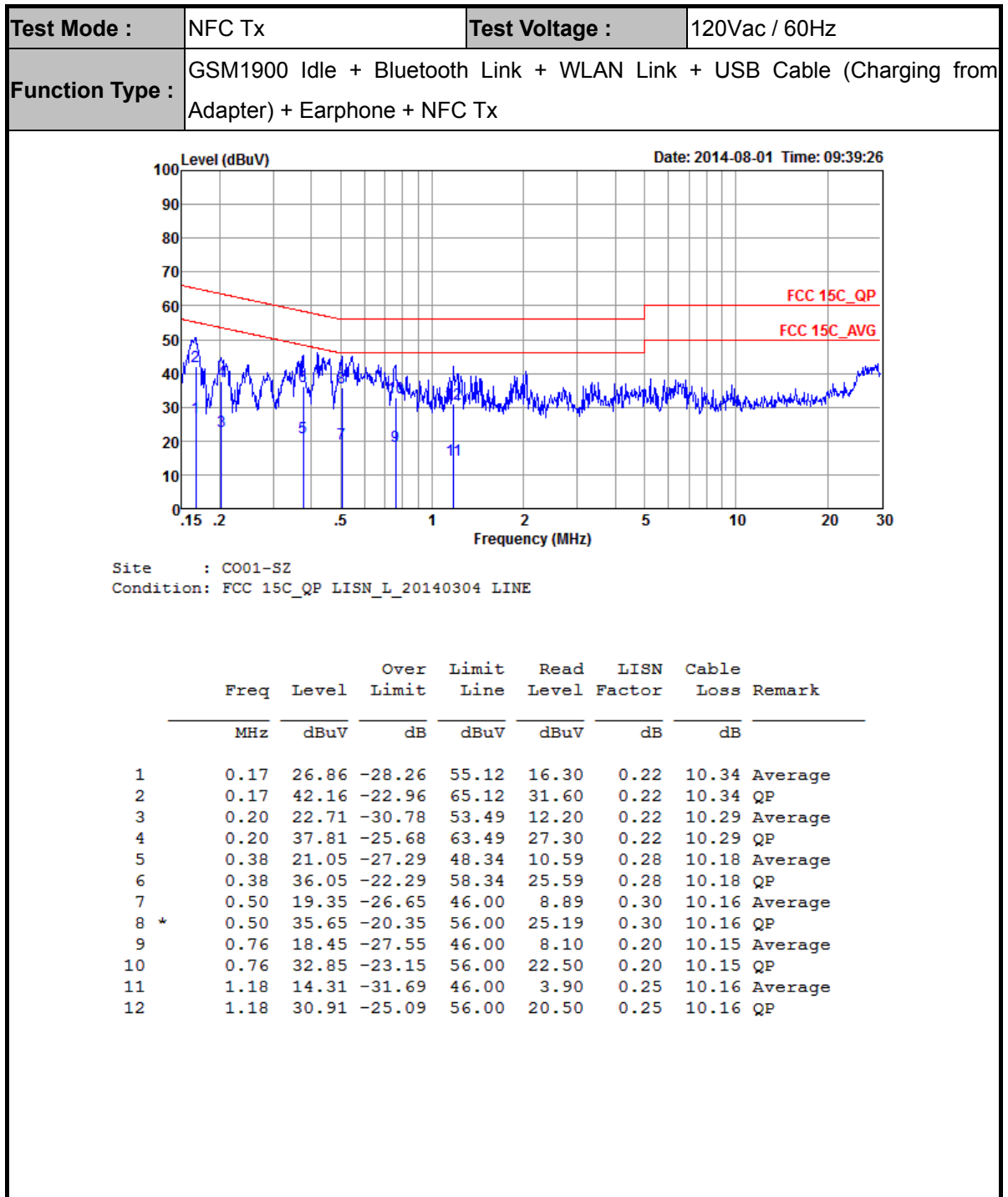
(1) with antenna

Remark: 13.56MHz is the NFC RF fundamental signal.



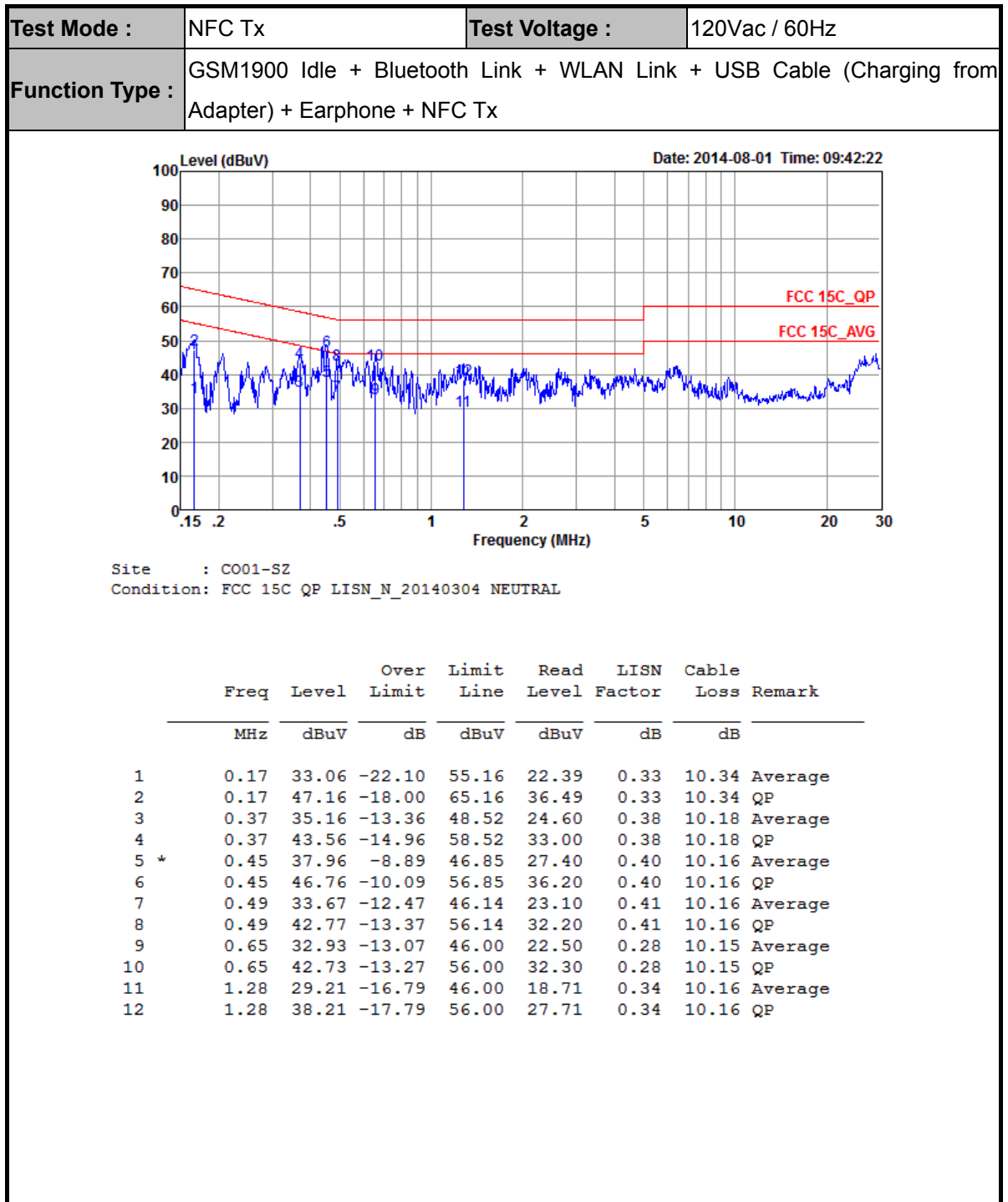
(1) with antenna

Remark: 13.56MHz is the NFC RF fundamental signal.



(2) with dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.



(2) with dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.

Appendix C. Test Results of Conducted Test Items

C.1 Test Result of 20dB Spectrum Bandwidth

Test mode		NFC Tx		Test Frequency (MHz)		13.56	
Date: 16.JUL.2014 06:50:06				Date: 16.JUL.2014 06:27:04			
20dB Bandwidth (kHz)		2.64		99% OccupiedBW(kHz)		2.24	
Frequency range (MHz)		$f_L > 13.553$		13.55798		Test Result	
		$f_H < 13.567$		13.56062		Complies	

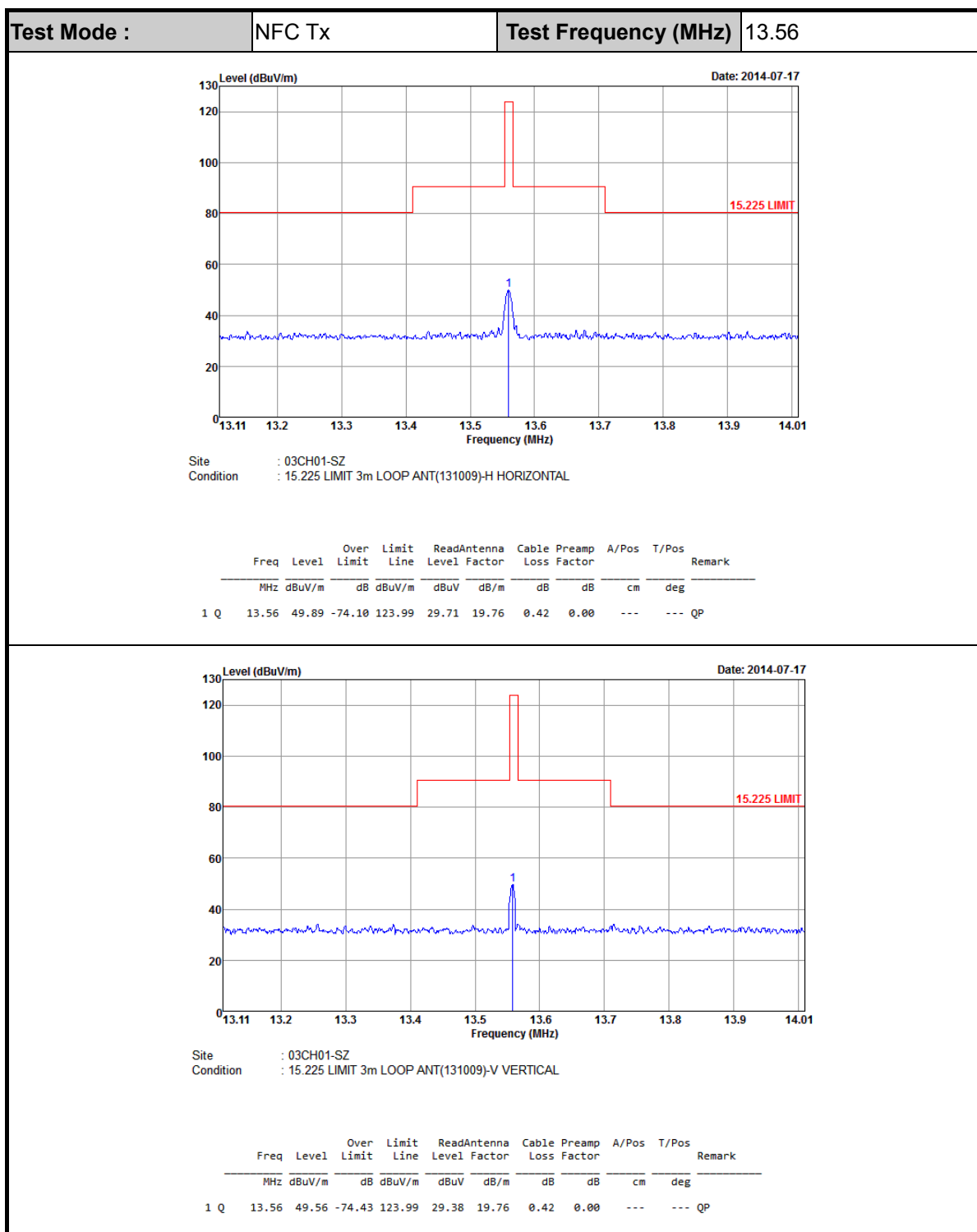
C.2 Test Result of Frequency Stability

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability	
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Measurement Frequency (MHz)
3.80	13.559300	-20	13.559260
3.60	13.559260	-10	13.559270
4.35	13.559260	0	13.559300
		10	13.559300
		20	13.559300
		30	13.559300
		40	13.560170
		50	13.559260
Max.Deviation (MHz)	-0.000740	Max.Deviation (MHz)	-0.000740
Max.Deviation (ppm)	-54.5723	Max.Deviation (ppm)	-54.5723
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm
Test Result	PASS	Test Result	PASS



Appendix D. Test Results of Radiated Test Items

D.1 Test Result of Field Strength of Fundamental Emissions



Note: All NFC's spurious emissions are below 20dB of limits.

D.2 Results of Radiated Emissions (9 kHz~30MHz)

Test Mode :		NFC Tx			Polarization :		Horizontal			
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01237	49.24	-76.52	125.76	28.84	20.25	0.15	0	-	-	Average
0.05317	37.34	-75.75	113.09	17.07	20.12	0.15	0	-	-	Average
0.08142	49.80	-59.59	109.39	29.60	20.05	0.15	0	-	-	Average
0.11052	40.12	-66.62	106.74	19.96	20.01	0.15	0	-	-	Average
0.1221	43.38	-62.49	105.87	23.24	19.99	0.15	0	-	-	Average
0.1944	47.80	-54.03	101.83	27.69	19.96	0.15	0	-	-	Average
1.064	38.25	-28.82	67.07	18.13	19.92	0.2	0	-	-	QP
6.47	35.15	-34.85	70	14.94	19.92	0.29	0	-	-	QP
13.56	49.92	-	-	29.74	19.76	0.42	0	-	-	QP
21.904	35.03	-34.97	70	14.15	20.35	0.53	0	-	-	QP
25.39	35.35	-34.65	70	14.41	20.37	0.57	0	-	-	QP

Test Mode :		NFC Tx			Polarization :		Vertical			
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01124	44.79	-81.80	126.59	24.39	20.25	0.15	0	-	-	Average
0.07596	42.22	-67.77	109.99	22.02	20.05	0.15	0	-	-	Average
0.11193	42.24	-64.39	106.63	22.08	20.01	0.15	0	-	-	Average
0.14856	40.38	-63.79	104.17	20.26	19.97	0.15	0	-	-	Average
0.29245	44.3	-53.98	98.28	24.2	19.94	0.16	0	-	-	Average
6.116	35.12	-34.88	70	14.9	19.93	0.29	0	-	-	QP
13.56	45.06	-	-	24.88	19.76	0.42	0	-	-	QP
19.411	35.21	-34.79	70	14.53	20.18	0.5	0	-	-	QP
29.17	36.08	-33.92	70	15.39	20.07	0.62	0	-	-	QP

Note:

1. 13.56 MHz is fundamental signal which can be ignored.
2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
4. Limit line = specific limits (dBμV) + distance extrapolation factor.

D.3 Results of Radiated Emissions (30MHz~1GHz)

Test Mode :		NFC Tx			Polarization :		Horizontal			
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.94	21.46	-18.54	40	32.71	17.9	0.78	29.93	100	360	Peak
104.69	24.78	-18.72	43.5	41.83	11.6	1.29	29.94	-	-	Peak
377.26	20.3	-25.70	46	32.6	15.4	2.23	29.93	-	-	Peak
523.73	21.57	-24.43	46	31.46	17.42	2.61	29.92	-	-	Peak
862.26	25.2	-20.80	46	31.03	20.8	3.3	29.93	-	-	Peak
965.08	25.03	-28.97	54	30.22	21.3	3.45	29.94	-	-	Peak

Test Mode :		NFC Tx			Polarization :		Vertical			
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
31.94	21.19	-18.81	40	32.44	17.9	0.78	29.93	-	-	Peak
104.69	33.15	-10.35	43.5	50.2	11.6	1.29	29.94	100	0	Peak
417.03	20.33	-25.67	46	31.86	16.05	2.34	29.92	-	-	Peak
537.31	21.69	-24.31	46	31.23	17.75	2.63	29.92	-	-	Peak
870.99	24.66	-21.34	46	30.52	20.78	3.29	29.93	-	-	Peak
989.33	25.08	-28.92	54	30.23	21.27	3.52	29.94	-	-	Peak

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.