



# **RADIO TEST REPORT**

## **ETSI EN 303 417 V1.1.1 (2017-09)**

**Product** : Smart phone

**Trade Mark** : Blackview

**Model Name** : BV9200

**Family Model** : N/A

**Report No.** : STR221018001014E

### **Prepared for**

DOKE COMMUNICATION (HK) LIMITED  
RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI  
HK CHINA

### **Prepared by**

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**TEST RESULT CERTIFICATION**

**Applicant's name** ..... : DOKE COMMUNICATION (HK) LIMITED  
**Address** ..... : RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD  
 WANCHAI HK CHINA  
**Manufacturer's Name** ..... : Shenzhen DOKE Electronic Co.,Ltd  
**Address** ..... : 801, Building3, 7th Industrial Zone, Yulv Community, Yutang  
 Road, Guangming District, Shenzhen, China

**Product description**

**Product name** ..... : Smart phone  
**Trademark** ..... : Blackview  
**Model and/or type reference** : BV9200  
**Family Model** ..... : N/A

**Standards** ..... : ETSI EN 303 417 V1.1.1 (2017-09)

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 of article 3.1(b) of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.

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**Test Sample Number** ..... T221018001R003

**Date of Test** .....

**Date (s) of performance of tests** ..... Oct 18, 2022 ~ Nov 15, 2022

**Date of Issue**..... Nov 15, 2022

**Test Result**..... **Pass**

**Testing Engineer** : Mukzi Lee  
 (Mukzi Lee)

**Authorized Signatory** : Alex  
 (Alex Li)

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### 1. Summary of test results

The EUT has been tested according to the following specifications:

ETSI EN 303 417 V1.1.1		
Clause	Test Item	Results
<b>TRANSMITTER PARAMETERS</b>		
4.3.2	Permitted range of operating frequencies	Pass
4.3.3	Operating frequency range(s) (OFR)	Pass
4.3.4	H-field requirements	Pass
4.3.5	Transmitter spurious emissions	Pass
4.3.6	Transmitter out of band (OOB) emissions	Pass
<b>RECEIVER PARAMETERS</b>		
4.4.2	Receiver blocking	Pass

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

## 1.1 Facilities and accreditations

### 1.1.1 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

### 1.1.2 Laboratory accreditations and listings

#### Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

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.

## 1.2 Maximum measurement uncertainty

### Maximum measurement uncertainty

RF Frequency	$\pm 1 \times 10^{-7}$
RF Power, Conducted	$\pm 0.75\text{dB}$
Maximum Frequency Deviation:	
_ Within 300Hz and 6KHz of Audio Frequency	$\pm 5\%$
_ Within 6KHz and 25KHz of Audio Frequency	$\pm 3\text{dB}$
Adjacent channel power	$\pm 3\text{dB}$
Conducted Emission of Transmitter, Valid Up to 12.75GHz	$\pm 4\text{dB}$
Conducted Emissions of Receivers	$\pm 3\text{dB}$
Radiated Emission of Transmitter, Valid Up to 12.75GHz	$\pm 6\text{dB}$
Radiated Emissions of Receivers	$\pm 6\text{dB}$

**Revision History**

Report No.	Version	Description	Issued Date
STR221018001014E	Rev.01	Initial issue of report	Nov 15, 2022

## 2. General information

### 2.1 General description of eut

Equipment	Smart phone	
Trade Mark	Blackview	
Model Name.	BV9200	
Family Model	N/A	
Model Difference	N/A	
Product Description	The EUT is Smart phone	
	Operation Frequency:	100kHz~205kHz
	WPT frequency range	4
	Antenna Designation:	Induction coil
Adapter	Model: QZ-06502EC00 Input: 100-240V~50/60Hz 1.5A Output: 5.0V---3.0A or 9.0V---3.0A or 12.0V---3.0A or 15.0V---3.0A or 20.0V--- 3.25A (PPS)3.3V~21.0V ---3.15A(66.0W Max)	
Battery	DC 3.87V, 5000mAh, 19.35Wh	
Rating	DC 3.87V from battery or DC 5V from adapter	
I/O Ports	Refer to users manual	
Hardware Version	HCT-G680MB-A4	
Software Version	BV9200_EEA_G680_V1.0_20221109V11	
Peripherals		
Equipment	Wireless charger	
Model Name	SL-PWW40	
Operation Frequency	100kHz~300kHz	
WPT frequency range	4	
Antenna Designation	Induction coil	
Power Rating	USB Input:DC 5V/2A;DC 9V/1.67A Output: 10W,7.5W,5W	

**NOTE:**

1. All the tests were performed at 3m test sites.
2. For more information, please refer to User's Manual.



## 2.2 Test conditions

	Normal Test Conditions	Extreme Test Conditions
Temperature	15°C - 35°C	-10°C ~ 40°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.87V	DC 3.4V – DC 4.2V Note: (2)

## Note:

- (1) The EUT belongs to Category II (Portable) devices.

For tests at extreme temperatures, measurements shall be made at the upper and lower temperatures of one of the following ranges:

- Category I (General): -20 °C to +55 °C.
- Category II (Portable): -10 °C to +55 °C.
- Category III (Equipment for normal indoor use): 0 °C to +35 °C.

NOTE: The term "Equipment for normal indoor use" is taken to mean the minimum indoor temperature  $\geq 5$  °C.

For special applications, the manufacturer can specify wider temperature ranges than given as a minimum above. This shall be reflected in manufacturer's product literature.

- (2) The extreme test voltages for equipment to be connected to an ac mains source shall be the nominal mains voltage  $\pm 10$  %.
- (3) The measurements are performed at the highest, middle, lowest available channels.

### 2.3 Description of test modes

To investigate the maximum 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 emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. The manufacturer shall declare for each possible operation mode of the WPT system (overview see Table 2):

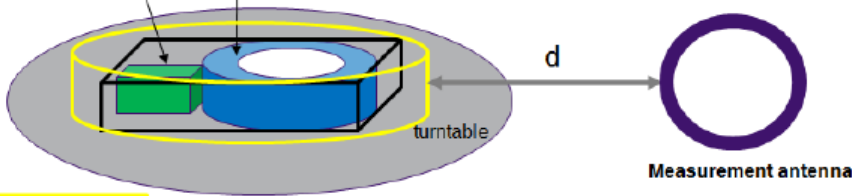
Table 2

Operational Mode	Set-up	Function of base station	Function of mobile device	Test scenario	Conformance Requirements
<input type="checkbox"/> Mode 1: base station in stand-by, idle mode	Single device	Transmitter	Not applicable	Single radiation test (TX) with the basestation/charging pad. The test set-up as described in clause 6.1.2 shall be used.	<ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Performance criteria test (RX test) (clause 4.4)</li> </ul>
<input checked="" type="checkbox"/> Mode 2: Communication before charging, adjustment charging mode / position	In combination	Transmitter	Not applicable	Specific test setup, declared by the manufacturer. Manufacturer shall declare the maximal distance between base station and mobile device the WPT system is able to communicate (distance D). The test setup- up shall be performed with the largest communication distance. The test set-up as described in clause 6.1.3 shall be used.	<ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Wanted performance criteria test (RX test) (clause 4.4)</li> </ul>
<input checked="" type="checkbox"/> Mode 3: Communication	WPT system alignment	TX and RX	TX and RX	Worst case alignment Both tests can be performed within one set-up, worst-case alignment. The test set-up as described in clause 6.1.4 shall be used.	<ul style="list-style-type: none"> <li>Operating frequency range (clause 4.3.3)</li> <li>H-Field emission (clause 4.3.4)</li> <li>TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7)</li> <li>Wanted Performance criteria test (RX test) (clause 4.4)</li> </ul>
<input checked="" type="checkbox"/> Mode 4: energy transmission	WPT system alignment	TX and RX	TX and RX		

2.4 Setup of equipment under test

Mode 1: idle mode

**Part of the WPT system in idle mode** (charger or battery), incl. necessary electronic and coil



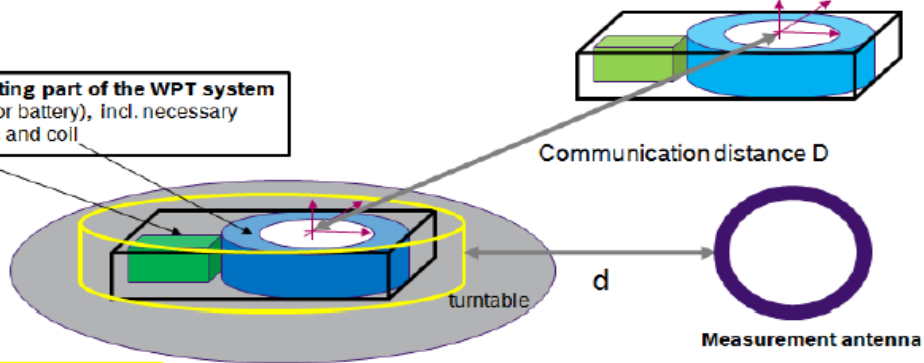
**Test volume** (cylinder) covers complete WPT device

d = measurement distance

Mode 2: charging adjustment

**Receiving part of the WPT system** (charger or battery), incl. necessary electronic and coil

**Transmitting part of the WPT system** (charger or battery), incl. necessary electronic and coil

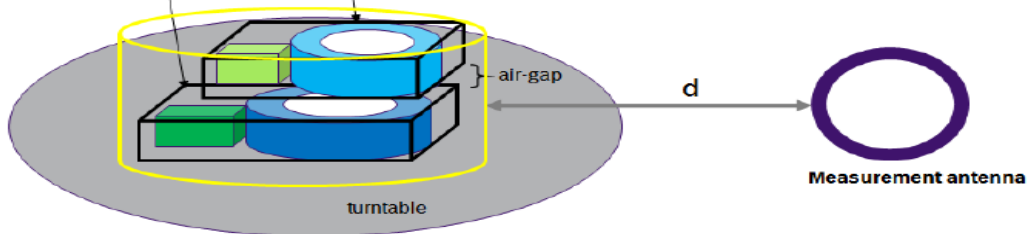


**Test volume** (cylinder) covers complete WPT device

d = measurement distance

Mode 3 and Mode 4: power transmission arrangement

**WPT system within worst case alignment** incl. necessary electronic and coil



**Test volume** (cylinder) covers complete WPT system

d = measurement distance

The distance D is: > 1 m,  
Note: The operating mode is tested at maximum load.

2.5 Equipments list for all test items

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	Calibration period
1	EMI Test Receiver	R&S	ESPI7	101318	2023.04.05	1 year
2	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.29	1 year
3	Turn Table	EM	SC100_1	60531	N/A	N/A
4	Antnna Mast	EM	SC100	N/A	N/A	N/A
5	Horn Antenna	EM	EM-AH-10180	2011071402	2023.03.31	1 year
6	HF Cable	N/A	R-01	N/A	N/A	N/A
7	HF Cable	N/A	R-02	N/A	N/A	N/A
8	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.10	3 year
9	LF Cable	N/A	R-03	N/A	2025.06.16	3 year
10	Pre-Amplifier	EMC	EMC051835S E	980246	2023.06.16	1 year
11	Spectrum Analyzer	R&S	FSV40	101417	2023.06.15	1 year
12	Cable	N/A	RF-01	N/A	N/A	N/A
13	Cable	N/A	RF-02	N/A	N/A	N/A
14	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2023.06.15	1 year
15	Triple Loop Antenna	EVERFINE	LLA-2	11020003	2023.06.27	1 year

**Transmitter parameters**

**3. H-field requirements (Radiated)**

**3.1 Applicability**

This applies to all WPT systems.

**3.2 Description**

The radiated H-field is defined in the direction of maximum field strength under specified conditions of measurement.

**3.3 Limits**

The H-field limits are provided in Table 3.

The frequency ranges and limits of the present document are shown in table 3. The limits are based on the European Commission Decision for SRDs [i.10], CEPT/ERC/REC 70-03 [i.1].

**Table 3: H-field limits**

Frequency range [MHz]	H-field strength limit [dBµA/m at 10 m]	Comments
0,019 ≤ f < 0,021	72	
0,059 ≤ f < 0,061	69,1 descending 10 dB/dec above 0,059 MHz	See note 1
0,079 ≤ f < 0,090	67,8 descending 10 dB/dec above 0,079 MHz	See note 2
0,100 ≤ f < 0,119	42	
0,119 ≤ f < 0,135	66 descending 10 dB/dec above 0,119 MHz	See note 1
0,135 ≤ f < 0,140	42	
0,140 ≤ f < 0,1485	37,7	
0,1485 ≤ f < 0,30	-5	
6,765 ≤ f < 6,795	42	

NOTE 1: Limit is 42 dBµA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.  
 NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

The H-field limit in dBµA/m at 3 m, H<sub>3m</sub>, is determined by the following equation:

$$H_{3m} = H_{10m} + C3 \text{ (F.2)}$$

Where: H<sub>10m</sub> is the H-field limit in dBµA/m at 10 m distance according to the present document;

and C3 is a conversion factor in dB determined from figure F.2.

Owing to the frequency EUT is 1 kHz, so the C3 approach to 31.4dB.

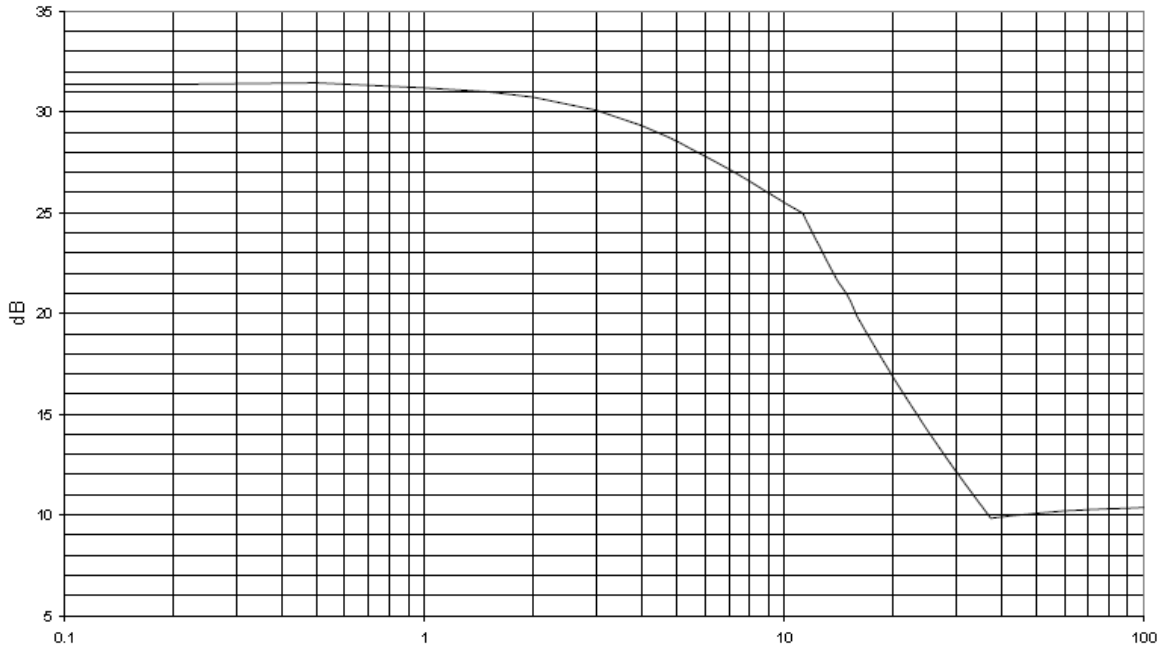


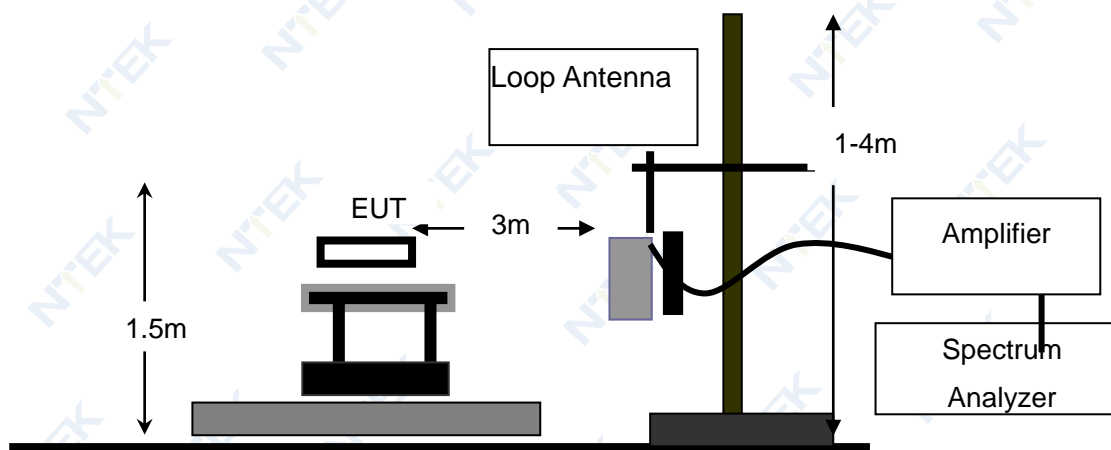
Figure F.2: Conversion factor C<sub>3</sub> versus frequency

3.4 Test Procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-01)

Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

3.5 Test Setup



3.6 Test results

EUT :	Smart phone	Model Name :	BV9200
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V (Normal)
Test Mode :	Operating/ Communication		

Operating Mode:

Test results tested at 3m test sites				
Freq.	Reading Level@3m	Calculated Level@10m	Limit@10m	Margin-10m
(kHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
112.12	5.17	-26.23	42.00	-68.23
122.34	6.87	-24.53	65.88	-90.41
138.14	5.96	-25.44	42.00	-67.44
145.34	6.25	-25.15	37.70	-62.85
210.17	5.57	-25.83	-5.00	-20.83

Communication mode:

Test results tested at 3m test sites				
Freq.	Reading Level@3m	Calculated Level@10m	Limit@10m	Margin-10m
(kHz)	(dBuA/m)	(dBuA/m)	(dBuA/m)	(dBuA/m)
112.57	2.17	-29.23	42.00	-71.23
125.36	4.33	-27.07	65.77	-92.84
139.54	3.58	-27.82	42.00	-69.82
146.85	4.62	-26.78	37.70	-64.48
192.24	3.71	-27.69	-5.00	-22.69

Remark:

- The EUT Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.  
 X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.  
 Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.  
 Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.
- $H_{10m} = H_{3m} - C3$ ; (C3=31.4).

#### 4. Operating frequency range(s) (OFR)

##### 4.1 Applicability

This applies to all WPT systems.

##### 4.2 Description

The operating frequency range is the frequency range over which the WPT system is intentionally transmitting (all operational modes, see clause 4.2.3, Table 2).

The operating frequency range(s) of the WPT system are determined by the lowest ( $f_L$ ) and highest frequency ( $f_H$ ) as occupied by the power envelope.

The WPT system could have more than one operating frequency range.

For a single frequency systems the OFR is equal to the occupied bandwidth (OBW) of the WPT system. For multi-frequency systems the OFR is described in Figures 2 and 3.

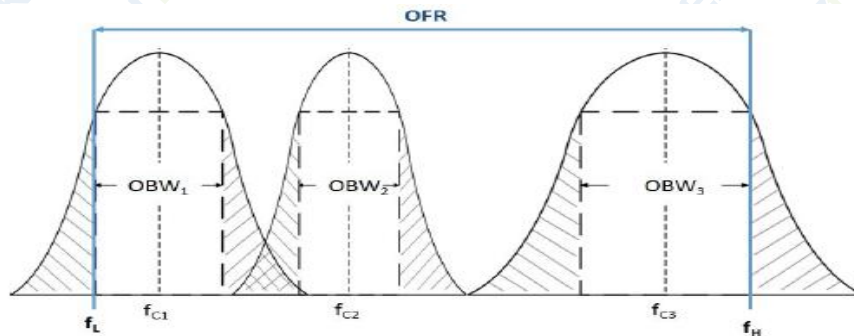


Figure 2: OFR of a multi - frequency WPT system within one frequency range of Table 2 and within one WPT system cycle time

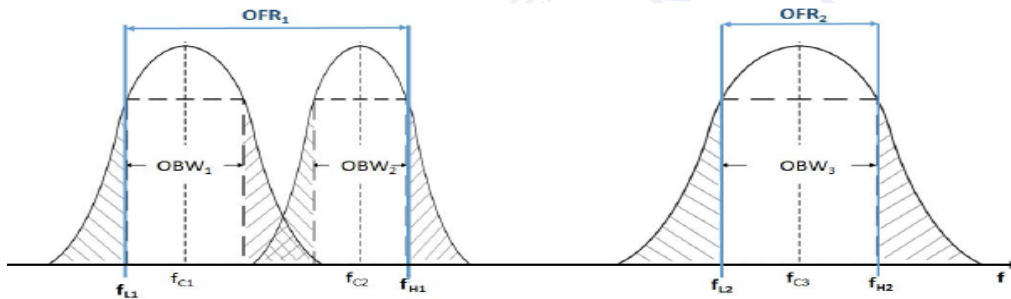


Figure 3: OFR of a multi - frequency WPT system within two frequency ranges of Table 2 and within one WPT system cycle time

##### 4.3 Limits

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

##### 4.4 Test procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-01)

Measurement	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> Radiated measurement

##### 4.5 Test setup

Please to see the standard section 6.2.1



4.6 Test Results

EUT :	Smart phone	Model Name :	BV9200
Temperature :	26°C	Relative Humidity	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	Operating/ Communication		

Operating Mode:

99%OCCUPIED BANDWIDTH(kHz)		Measured frequencies			Limit	PASS /FAIL
a single frequency	a multi - frequency	F <sub>c</sub> (kHz)	F <sub>L</sub> (kHz)	F <sub>H</sub> (kHz)		
0.666	31.910	126.773	110.818	142.728	F <sub>L</sub> >100kHz and F <sub>H</sub> <300 kHz	PASS

Extreme condition				Frequency range ( kHz )	
				F <sub>L</sub>	F <sub>H</sub>
T min (°C)	-10.00	V max (V)	3.40	110.817	142.727
		V nom (V)	3.85	110.819	142.729
		V min (V)	4.20	110.816	142.726
T max (°C)	40.00	V max (V)	3.40	110.818	142.728
		V nom (V)	3.85	110.814	142.724
		V min (V)	4.20	110.815	142.725
Min. f <sub>L</sub> / Max. f <sub>H</sub> Band Edges				110.819	142.729
Limits				F <sub>L</sub> > 100kHz	F <sub>L</sub> < 300 kHz
<b>Result</b>				<b>Complies</b>	

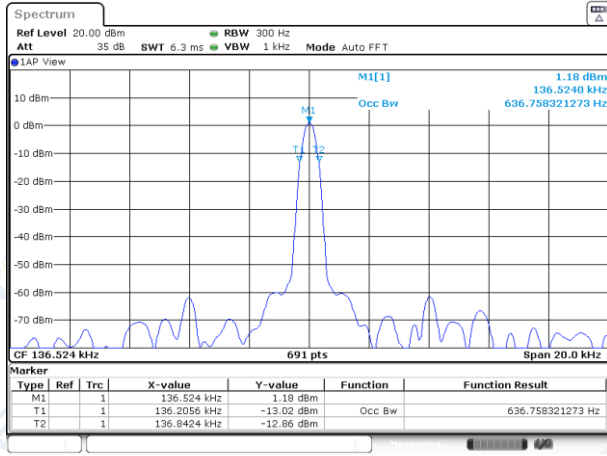
Communication Mode:

99%OCCUPIED BANDWIDTH(kHz)		Measured frequencies			Limit	PASS /FAIL
a single frequency	a multi - frequency	F <sub>c</sub> (kHz)	F <sub>L</sub> (kHz)	F <sub>H</sub> (kHz)		
0.637	29.175	130.876	116.288	145.463	F <sub>L</sub> >100kHz and F <sub>H</sub> <300 kHz	PASS

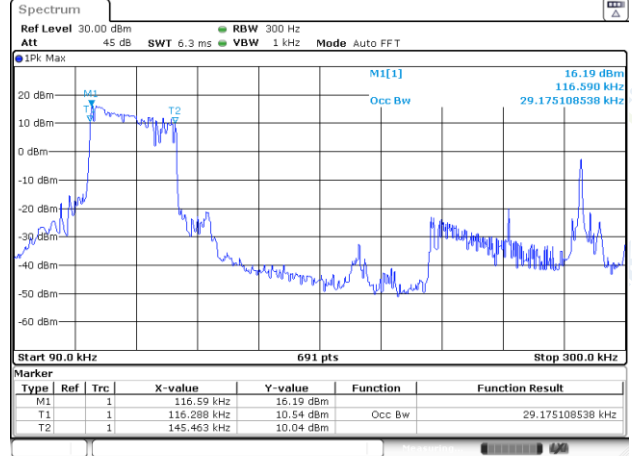
Extreme condition				Frequency range ( kHz )	
				F <sub>L</sub>	F <sub>H</sub>
T min (°C)	-10.00	V max (V)	3.40	116.286	145.460
		V nom (V)	3.85	116.288	145.462
		V min (V)	4.20	116.285	145.459
T max (°C)	40.00	V max (V)	3.40	116.287	145.461
		V nom (V)	3.85	116.283	145.457
		V min (V)	4.20	116.284	145.458
Min. f <sub>L</sub> / Max. f <sub>H</sub> Band Edges				116.288	145.462
Limits				F <sub>L</sub> > 100kHz	F <sub>L</sub> < 300 kHz
<b>Result</b>				<b>Complies</b>	

Test Plot

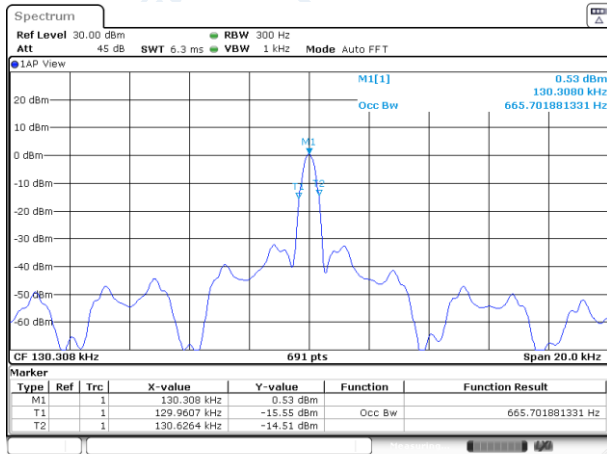
Operating Mode- a single frequency



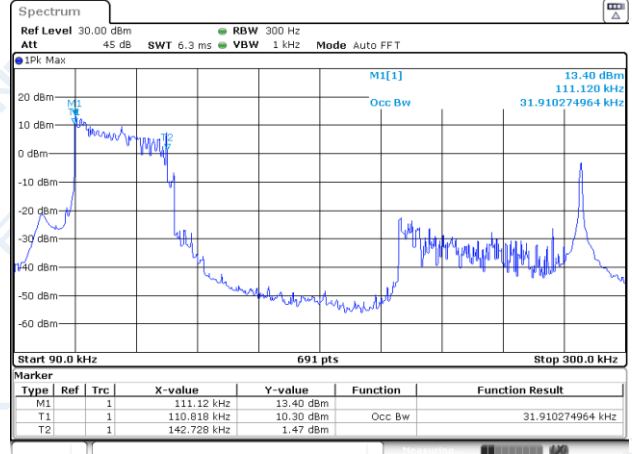
Operating Mode- a multi - frequency



Communication Mode- a single frequency



Communication Mode- a multi - frequency



5. Transmitter out of band (OOB) emissions

5.1 Applicability

This requirement applies to all WPT systems.

5.2 Description

The WPT system out of band emissions are to be considered in frequency ranges defined in Figure 4 and Figure 5 (between  $f_{SL}$  and  $f_L$  and between  $f_H$  and  $f_{SH}$ ).

5.3 Limits

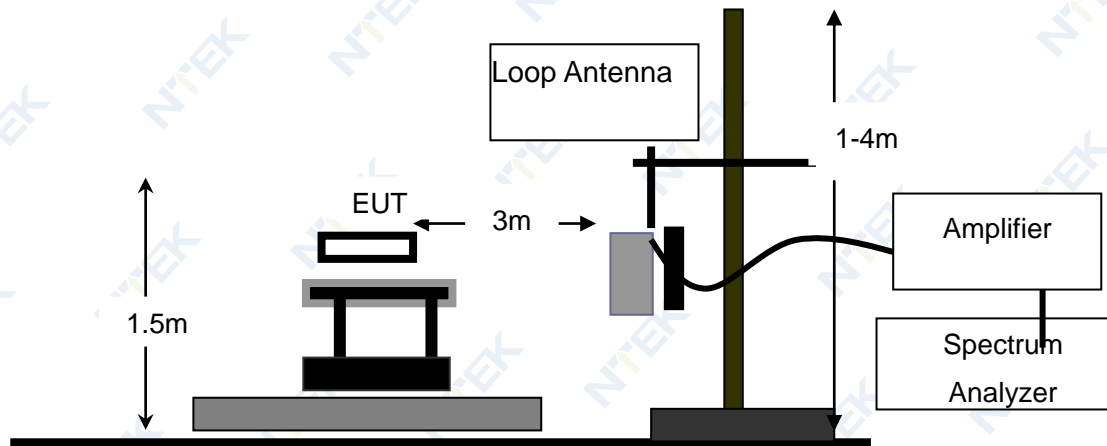
The OOB limits are visualized in Figures 4 and 5; they are descending from the intentional limits from Table 3 at  $f_H/f_L$  with 10 dB/decade.

5.4 Test Procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-01)

Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

5.5 Test Setup

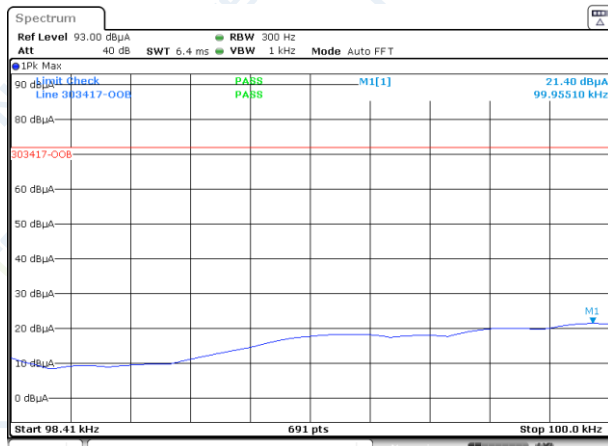


5.6 Test Results

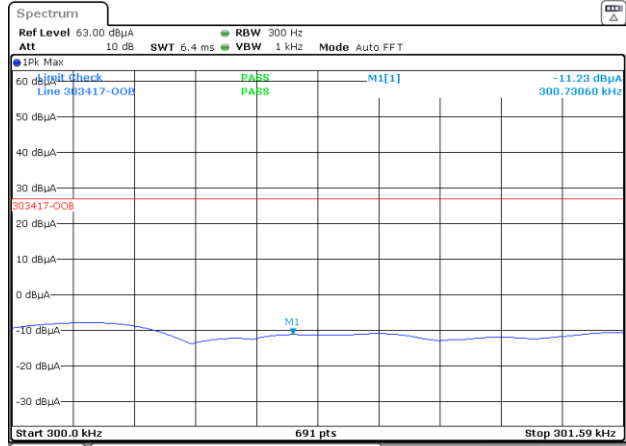
EUT :	Smart phone	Model Name :	BV9200
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	Operating/ Communication		

Test Plot

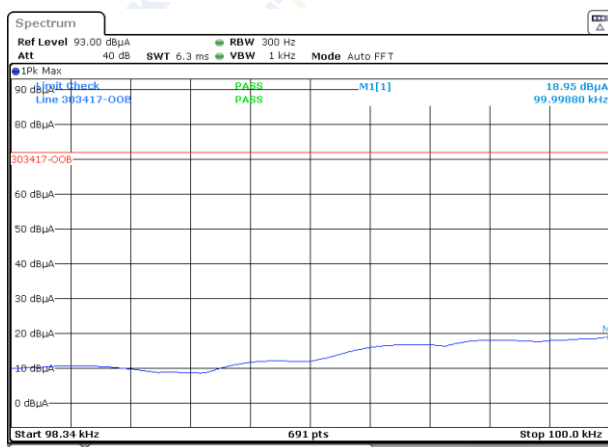
Operating Mode-  $F_L$



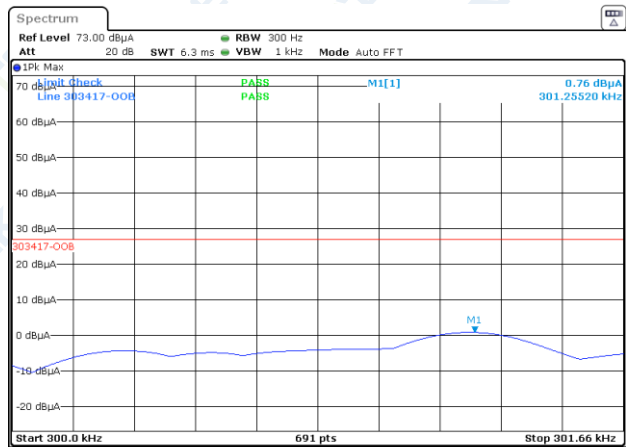
Operating Mode -  $F_H$



Communication Mode-  $F_L$



Communication Mode-  $F_H$



Remark:

The EUT Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

## 6. Transmitter spurious emissions

### 6.1 Applicability

This applies to all WPT systems.

### 6.2 Description

The transmitter spurious emissions for a single frequency system are to be considered in frequency ranges defined in Figure 4 ( $f < f_{SL}$  and  $f > f_{SH}$ ).

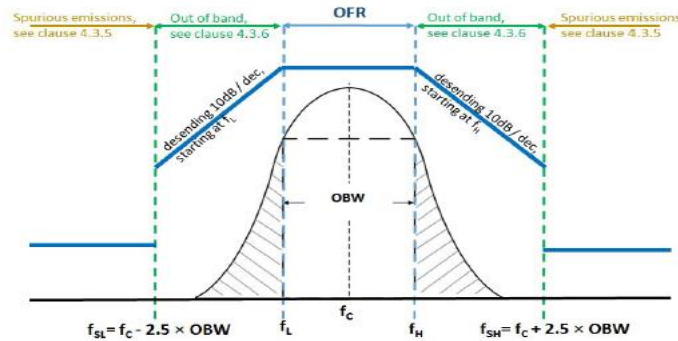


Figure 4: Out of band and spurious domain of a single frequency WPT system

The transmitter spurious emissions for a multi frequency system (within one WPT frequency range from Table 2) are to be considered in frequency ranges defined in Figure 5 ( $f < f_{SL}$  and  $f > f_{SH}$ ).

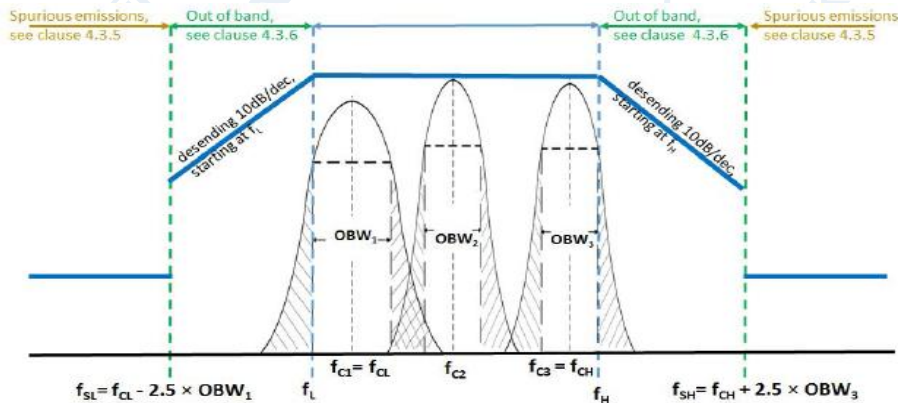


Figure 5: Out of band and spurious domain of a multi - frequency system (during one WPT system cycle time)

### 6.3 Limits

The radiated field strength of spurious emissions below 30 MHz shall not exceed the generated H-field given in Table 4.

Table 4

State (see note)	Frequency $9 \text{ kHz} \leq f < 10 \text{ MHz}$	Frequency $10 \text{ MHz} \leq f < 30 \text{ MHz}$
Operating	27 dB $\mu$ A/m at 9 kHz descending 10 dB/dec	-3,5 dB $\mu$ A/m
Standby	5,5 dB $\mu$ A/m at 9 kHz descending 10 dB/dec	-25 dB $\mu$ A/m
NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.		

The power of any radiated spurious emission between 30 MHz and 1 GHz shall not exceed the values given in Table 5.

Table 5

State (see note)	47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 790 MHz	Other frequencies between 30 MHz to 1 000 MHz
Operating	4 nW	250 nW
Standby	2 nW	2 nW

NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.

Convert reading by 51,5 dB for measuring equipment calibrated in dBµV or dBµV/m.

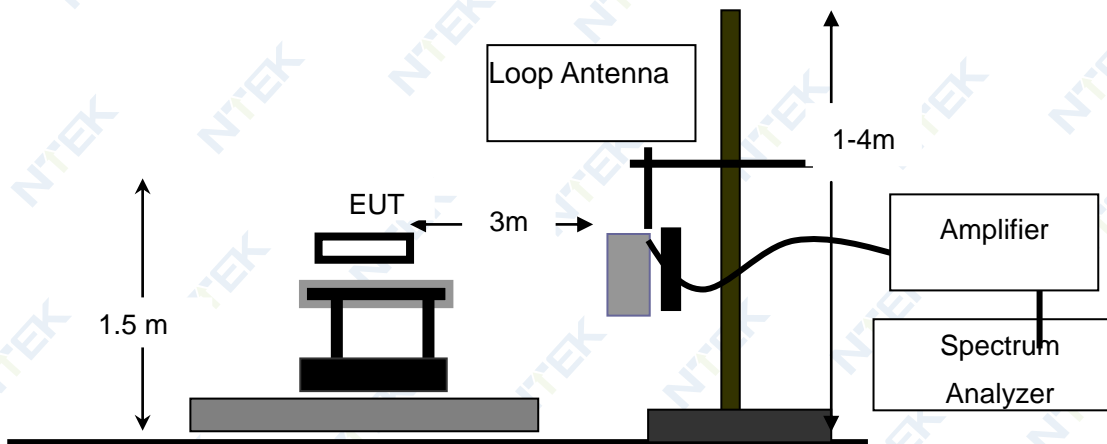
6.4 Test Procedure

Refer to chapter 6.2.1 of ETSI EN 303 417 V1.1.1 (2017-09)

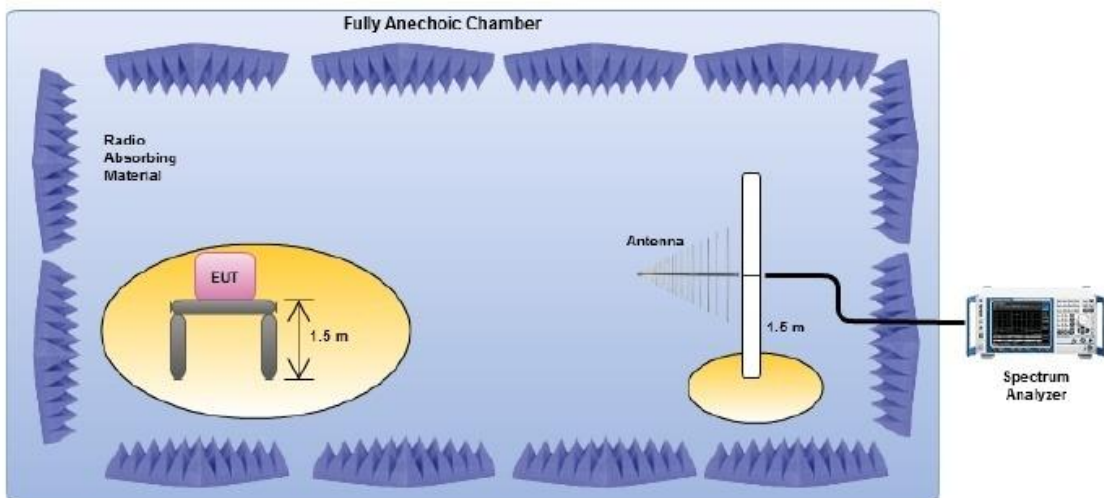
Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

6.5 Test Setup

Frequency Range (9kHz-30MHz)



Frequency Range (30MHz~1GHz)



6.6 Test Results

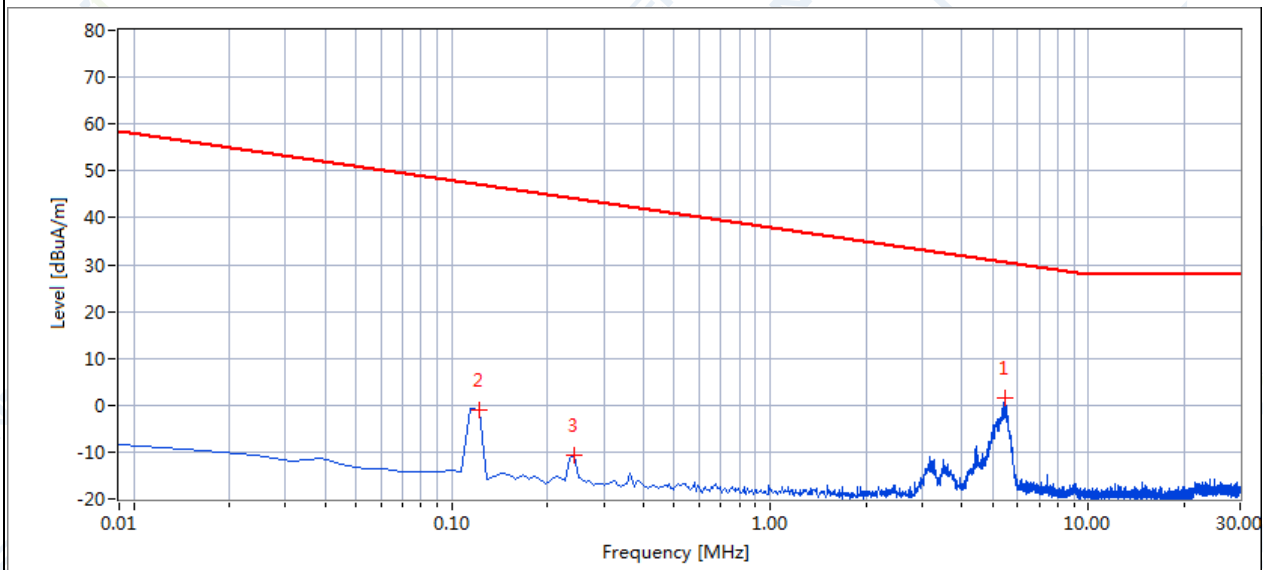
EUT :	Smart phone	Model Name :	BV9200
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	Operating/ Communication		

Operating Mode

Remark:

- The EUT Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.  
 X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.  
 Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.  
 Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.
- Measuring frequencies from 9KHz to the 30MHz.
- $H3m = H10m + C3$ ; ( $C3=31.4$ ).

Frequency MHz	Pre-scan Level MaxPeak dBuA/m	Final Test Level MaxPeak dBuA/m	Limit MaxPeak dBuA/m	Margin dB
5.479	1.5	1.7	30.6	28.9
0.121	-1.0	-0.7	47.1	47.8
0.243	-10.7	-10.3	44.1	54.4



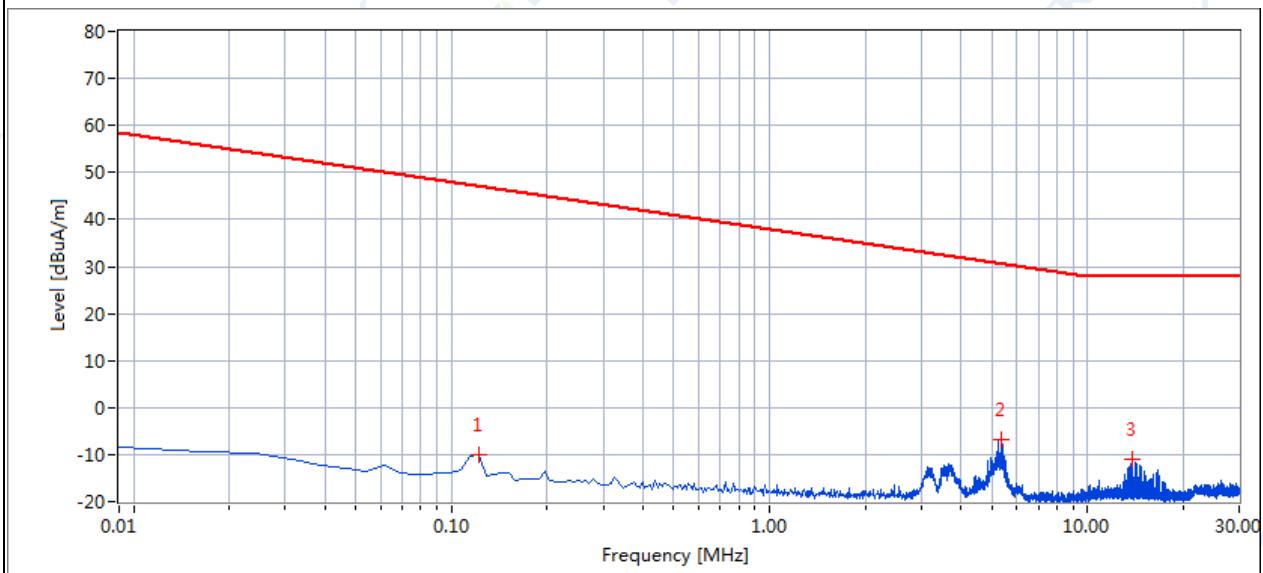


Communication Mode

Remark:

1. The EUT Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.  
 X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.  
 Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.  
 Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.
4. Measuring frequencies from 9KHz to the 30MHz.
5. H3m = H10m+C3; (C3=31.4).

Frequency MHz	Pre-scan Level MaxPeak dBuA/m	Final Test Level MaxPeak dBuA/m	Limit MaxPeak dBuA/m	Margin dB
0.121	-10.1	-10.6	47.1	57.7
5.349	-6.7	-7.3	30.7	37.9
13.865	-11.0	-10.8	27.9	38.7



## ABOVE 30 MHz TEST RESULT

EUT :	Smart phone	Model Name :	BV9200
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	Operating/ Communication		

## Operating Mode

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	67.99	-74.60	11.76	-62.84	-54	-8.84	peak
V	102.84	-73.73	11.03	-62.70	-54	-8.70	peak
V	210.99	-74.37	11.42	-62.95	-54	-8.95	peak
V	342.03	-70.02	11.12	-58.90	-36	-22.90	peak
V	935.44	-76.47	12.69	-63.78	-36	-27.78	peak
H	61.57	-70.34	11.28	-59.06	-54	-5.06	peak
H	103.20	-75.95	11.40	-64.55	-54	-10.55	peak
H	222.44	-69.21	11.78	-57.43	-54	-3.43	peak
H	410.50	-75.13	12.85	-62.28	-36	-26.28	peak
H	948.17	-69.27	12.25	-57.02	-36	-21.02	peak

**Remark:**

1. Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit.

## Communication Mode

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	46.38	-72.93	11.03	-61.90	-54	-7.90	peak
V	98.21	-69.29	11.09	-58.20	-54	-4.20	peak
V	213.39	-74.81	12.62	-62.19	-54	-8.19	peak
V	390.80	-72.53	12.82	-59.71	-36	-23.71	peak
V	886.35	-77.45	11.89	-65.56	-36	-29.56	peak
H	63.84	-71.28	10.08	-61.20	-54	-7.20	peak
H	107.99	-71.94	11.05	-60.89	-54	-6.89	peak
H	221.88	-75.95	11.86	-64.09	-54	-10.09	peak
H	432.38	-70.62	12.02	-58.60	-36	-22.60	peak
H	968.36	-72.68	11.97	-60.71	-36	-24.71	peak

**Remark:**

1. Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit.

## 7. Receiver blocking

### 7.1 Applicability

This requirement applies to all WPT systems operation in Mode 1, Mode 2 and Mode 3.

### 7.2 Description

Blocking is a measure of the capability of the receiver to receive a wanted signal without exceeding a given degradation due to the presence of an unwanted input signal at any frequencies other than those of the receiver spurious responses.

The test shall be performed in the relevant operational modes (see clause 4.2.3).

The wanted performance criteria from clause 4.2.2 shall be used as criterion for the receiver blocking tests.

### 7.3 Limits & Wanted performance criteria

The receiver blocking limits in Table 6 shall be fulfilled.

**Table 6: Receiver blocking limits**

	In-band signal	OOB signal	Remote-band signal
Frequency	Centre frequency ( $f_c$ ) of the WPT system (see clause 4.3.3)	$f = f_c \pm F$ (see note)	$f = f_c \pm 10 \times F$ (see note)
Signal level field strength at the EUT	72 dB $\mu$ A/m	72 dB $\mu$ A/m	82 dB $\mu$ A/m

NOTE: F = OFR see clause 4.3.3.

#### Wanted performance criteria

A WPT system always consists of a base station and a mobile device which are in proximity to each other. The performance of a WPT system is dependent on the related operational mode, see clause 4.2.3.

For the purpose of the receiver performance tests, the WPT system shall produce an appropriate output under normal conditions as indicated below:

- use as intended without degradation of performance; or
- a degradation of the performance is indicated by the WPT system as described in the manual.

The manufacturer shall declare the performance criteria used to determine the performance of the receiving parts inside the WPT system (related to the mode).

### 7.4 Test Procedure

Refer to chapter 6.3.2 of ETSI EN 303 417 V1.1.1 (2017-09)

Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

### 7.5 Test Setup

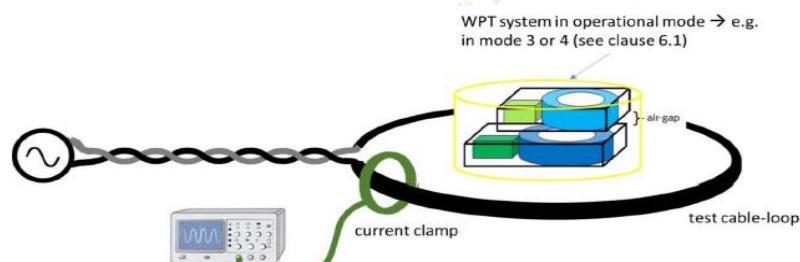


Figure 11: Schematic test set-up for the RX-blocking test

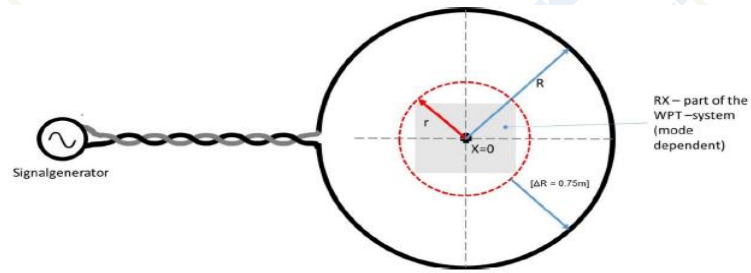


Figure 12: Schematic test set-up for the RX-blocking test

If the WPT system meets the wanted performance criterion at all times, then the test shall be considered as passed. Otherwise, the test is considered as failed.

### 7.6 Test Results

EUT :	Smart phone	Model Name :	BV9200
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	Operating/ Communication/		

#### Operating Mode

Frequency(kHz)	Frequency(kHz)	Unwanted Signal(dBuA/m)	loop current I(mA)	maximum H-Field(dBuA/m)	Result
Centre frequency (fc)=	126.773	72	0.230	57.48	Pass
f = fc +F=	158.683	72	0.216	53.88	Pass
f = fc -F=	94.863	72	0.307	76.79	Pass
f = fc +10 xF=	445.873	82	0.279	69.84	Pass
f = fc- 10 x F=	-192.327	82	0.293	73.26	Pass

Note:1. F=31.027kHz; R=2m; H=l/2R

2. "Pass" means the EUT compliance with the Wanted performance criteria.

#### Communication Mode

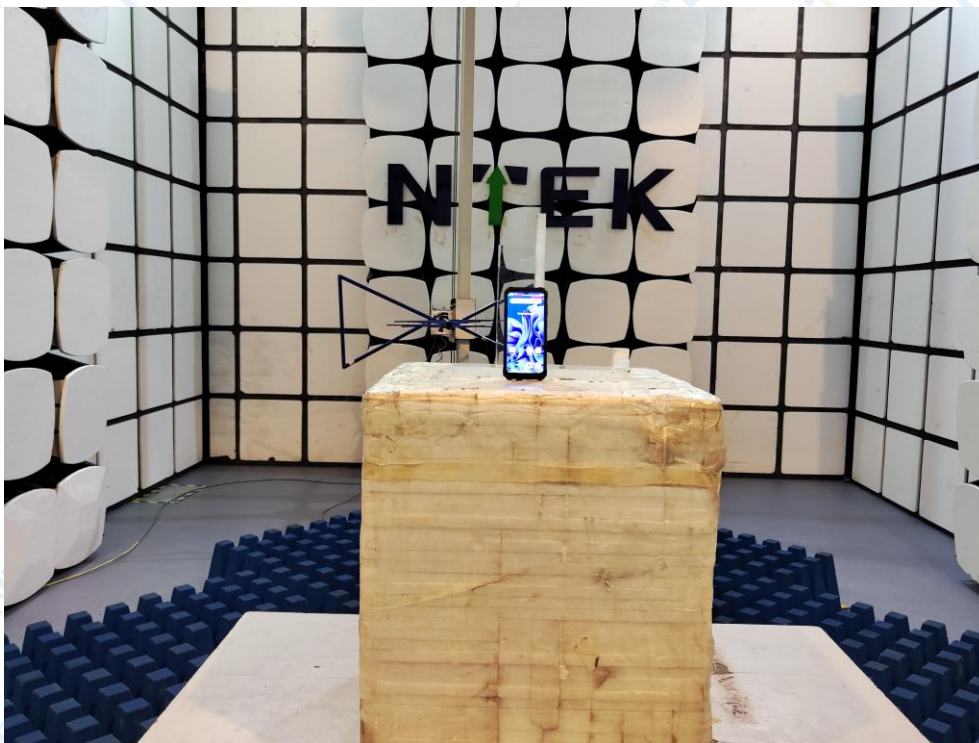
Frequency(kHz )	Frequency(kHz)	Unwanted Signal(dBuA/m)	loop current I(mA)	maximum H-Field(dBuA/m )	Result
Centre frequency (fc)=	130.876	72	0.152	37.88	Pass
f = fc +F=	160.051	72	0.243	60.70	Pass
f = fc -F=	101.701	72	0.295	73.64	Pass
f = fc +10 xF=	422.626	82	0.210	52.51	Pass
f = fc- 10 x F=	-160.874	82	0.241	60.20	Pass

Note:1. F=36.816kHz; R=2m; H=l/2R

2. "Pass" means the EUT compliance with the Wanted performance criteria.

**8. Photographs of the test configuration**

**SPURIOUS EMISSIONS MEASUREMENT PHOTOS**



END OF REPORT