



# FCC&ISED RF Test Report

Product Name: Smart Phone

Model Number: ELE-L04

Report No.: SYBH(Z-RF)20190117024001-2006

FCC ID : QISELE-L04

IC: 6369A-ELEL04

Authorized	APPROVED (Lab Manager)	PREPARED (Test Engineer)
BY	He Hao	Zhang Shuangxia
DATE	2019-02-26	2019-02-26

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**MODIFICATION RECORD**

No.	Report No	Modification Description
1	SYBH(Z-RF)20181115007001-2006	First release.
2	SYBH(Z-RF)20190117024001-2006	<p>(1) Updated the version of the board, and added some tests according to differences and modifications of the new version, please see General Description for details:</p> <p>Note 1: <input type="checkbox"/> The history report(s) should be withdrawn;  <input checked="" type="checkbox"/> The history report(s) are still valid.</p>

**DECLARATION**

Type	Description
Multiple Models Applications	<p><input checked="" type="checkbox"/> The present report applies to single model.</p> <p><input type="checkbox"/> The present report applies to several models. The practical measurements are performed with the model.</p> <p>Note: The present report only presents the worst test case of all modes, see relevant test results for detailed.</p>

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## 2 General Information

### 1.1 Test standard/s

Applied Rules :	47 CFR FCC Part 02 47 CFR FCC Part 15 Subpart C (15.225) ISED RSS-Gen (Issue 5, April 2018) ISED RSS-210 (Issue 9, August 2016)
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### 1.2 Test Environment

Temperature :	TN	15 to 30	°C during room temperature tests
Ambient Relative Humidity:	20 to 85 %		
Atmospheric Pressure:	Not applicable		
Power supply :	VL	3.6	V
	VN	3.82	V DC by Battery
	VH	4.35	V

NOTE 1: 1) VN= nominal voltage, VL= low extreme test voltage, VH= High extreme test voltage;

TN= normal temperature, TL= low extreme test temperature, TH= High extreme test temperature.

NOTE 2: The values used in the test report may be stringent than the declared.

### 1.3 Test Laboratories

Test Location 1 :	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD.
Address of Test Location 1 :	No.2 New City Avenue Songshan Lake Sci. &Tech. Industry Park, Dongguan, Guangdong, P.R.C
Sub-contracted Test Location 1 :	Sporton International (Shenzhen) Inc.
Address of Sub-contracted Test Location 1 :	No.3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.China

### 1.4 Applicant and Manufacturer

Company Name :	HUAWEI TECHNOLOGIES CO., LTD
Address :	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

### 1.5 Application details

Date of Receipt Sample:	2019-01-30
Start of test:	2019-02-01
End of test:	2019-02-26

### 3 Summary

FCC Rule No.	ISED Rule No.	Test Description	Test Limit	Test Condition	Test Result	Reference	Testing location
<b>TRANSMITTER MODE</b>							
15.225(a)	RSS-210, B6(a)	In-Band Emissions	15,848 $\mu$ V/m @ 30m 13.553 – 13.567 MHz	RADIATED	Pass	Section 5.2	Sub-contracted Test Location 1
2.1049	RSS-Gen, 6.7	Bandwidth	N/A		Refer to No. SYBH(Z-RF)2018111 5007001-2006	Section 5.1	Location 1
15.225(b)	RSS-210, B6(b)	In-Band Emissions	334 $\mu$ V/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz		Pass	Section 5.2	Sub-contracted Test Location 1
15.225(c)	RSS-210, B6(c)	In-Band Emissions	106 $\mu$ V/m @ 30m 13.110 – 13.410 MHz 13.710 – 14.010 MHz		Pass	Section 5.2	Sub-contracted Test Location 1
15.225(d) 15.209	RSS-210, B6(d)	Out-of-Band Emissions	FCC: Emissions outside of the specified band (13.110 – 14.010 MHz) must meet the radiated limits detailed in 15.209  ISED: Emissions outside of the specified band (13.110 – 14.010 MHz) must meet the radiated limits detailed in RSS-Gen 8.9		Pass	Section 5.3	Sub-contracted Test Location 1
15.225(e)	RSS-210, B6(d)	Frequency Stability Tolerance	$\pm$ 0.01% of Operating Frequency	Temperature Chamber	Refer to No. SYBH(Z-RF)2018111 5007001-2006	Section 5.4	Location 1
15.207	RSS-Gen, 8.8	AC Conducted Emissions 150k Hz –	FCC: < FCC 15.207 limits  ISED: < RSS-Gen, 8.8 limits.	LINE CONDUCTED	Pass	Section 5.5	Location 1

		30MH z					
<p>NOTE1: The transmitter has an integral PCB loop antenna that is enclosed within the housing of the EUT and meets the requirements of FCC 15.203</p> <p>NOTE2: For adding Wireless charging protective case we only tested the RSE(worst case) and AC Power Line Conducted Emissions, and the data is not worsen, So all other data can refer to No. SYBH(Z-RF)20181115007001-2006 of before change of ELE-L04.</p>							

## 4 Product Description

### 4.1 Product Information

#### 4.1.1 General Description

ELE-L29/ELE-L09 is subscriber equipment in the GSM/WCDMA/LTE system. The GSM frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. The UMTS frequency band is B1 and B2 and B4 and B5 and B6 and B8 and B19. The ELE-L29/ELE-L09 LTE frequency band is B1 and B2 and B3 and B4 and B5 and B6 and B7 and B8 and B9 and B12 and B17 and B18 and B19 and B20 and B26 and B28 and B32 and B34 and B38 and B39 and B41. The ELE-L29 LTE frequency band for intra-band carrier aggregation uplink operation band is CA\_1C and CA\_2C and CA\_3C and CA\_7C and CA\_38C and CA\_39C and CA\_41C. The Mobile Phone implements such functions as RF signal receiving/transmitting LTE/HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS and WIFI etc. Externally it provides one micro SD card interface (it can also used as SIM card interface), earphone port (to provide voice service) and one SIM card interface. ELE-L29 is dual SIM smart phone. ELE-L09 is single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

The differences between Befor change of ELE-L04 and after change of ELE-L04 are showed in the following table. :

	Model	Befor change of ELE-L04	after change of ELE-L04
Licensed Frequency	LTE BAND	the same	the same
	UMTS BAND	the same	the same
	GSM	the same	the same
	IC	the same	the same
	Antenna	the same	the same
	NFC	the same	the same
Unlicensed Frequency	Bluetooth	the same	the same
	2.4G Wi-Fi	the same	the same
	IC	the same	the same
	Antenna	the same	the same
Hardware	Ram / Rom	the same	the same
	Camera	the same	the same
	PCB	the same	the same
	USB Port	the same	the same
	SIM	the same	the same
	Hardware version	the same	the same
	Optional accessories	None	Wireless charging protective case
RF	RF circuit	the same	the same
Appearance	Dimension	the same	the same
	Color	different	different
	Optional accessories	None	Wireless charging protective case



Accessory	Battery	the same	the same
	External Charger	the same	the same
	USB label	the same	the same
	Earphone	the same	the same

Note1: Only NFC test data included in this report.

Note2: For adding Wireless charging protective case we only tested the RSE(worst case) and AC Power Line Conducted Emissions, and the data is not worsen, So all other data can refer to No. SYBH(Z-RF)20181115007001-2006 of before change of ELE-L04.

## 4.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

### 4.2.1 Board

Board		
Description	Software version	Hardware version
Main Board	5.0.1.43 ( C792E8R1P7log )	HL1ELLEM

## 4.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Adapter	HW-050450B00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V $\overline{\overline{\overline{\quad}}}$ 2A OR4.5V $\overline{\overline{\overline{\quad}}}$ 5A OR 5V $\overline{\overline{\overline{\quad}}}$ 4.5A
Adapter	HW-050450E00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V $\overline{\overline{\overline{\quad}}}$ 2A OR4.5V $\overline{\overline{\overline{\quad}}}$ 5A OR 5V $\overline{\overline{\overline{\quad}}}$ 4.5A
Adapter	HW-050450U00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V $\overline{\overline{\overline{\quad}}}$ 2A OR4.5V $\overline{\overline{\overline{\quad}}}$ 5A OR 5V $\overline{\overline{\overline{\quad}}}$ 4.5A
Adapter	HW-050450A00	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V $\overline{\overline{\overline{\quad}}}$ 2A OR4.5V $\overline{\overline{\overline{\quad}}}$ 5A OR 5V $\overline{\overline{\overline{\quad}}}$ 4.5A
Adapter	HW-050450E01	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V $\overline{\overline{\overline{\quad}}}$ 2A OR4.5V $\overline{\overline{\overline{\quad}}}$ 5A OR 5V $\overline{\overline{\overline{\quad}}}$ 4.5A
Adapter	HW-050450A01	Huawei Technologies Co.,Ltd.	Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V $\overline{\overline{\overline{\quad}}}$ 2A OR4.5V $\overline{\overline{\overline{\quad}}}$ 5A OR 5V $\overline{\overline{\overline{\quad}}}$ 4.5A
Li-ion Polymer Battery	HB436380ECW	Huawei Technologies Co.,Ltd.	Rated capacity: 3550mAh Nominal Voltage: +3.85V Charging Voltage: +4.43V

## 4.2.3 Wireless charging case

Wireless charging case	C-ELE Wireless charging case
Manufacturer	Huawei Technologies Co., Ltd.
Wireless charging power	10W max
Connector rating	5A max
Rated operating voltage	9V
Charging efficiency	>75%
Operating temperature	-10 °C~40 °C
Storage temperature	-40 °C~70°C

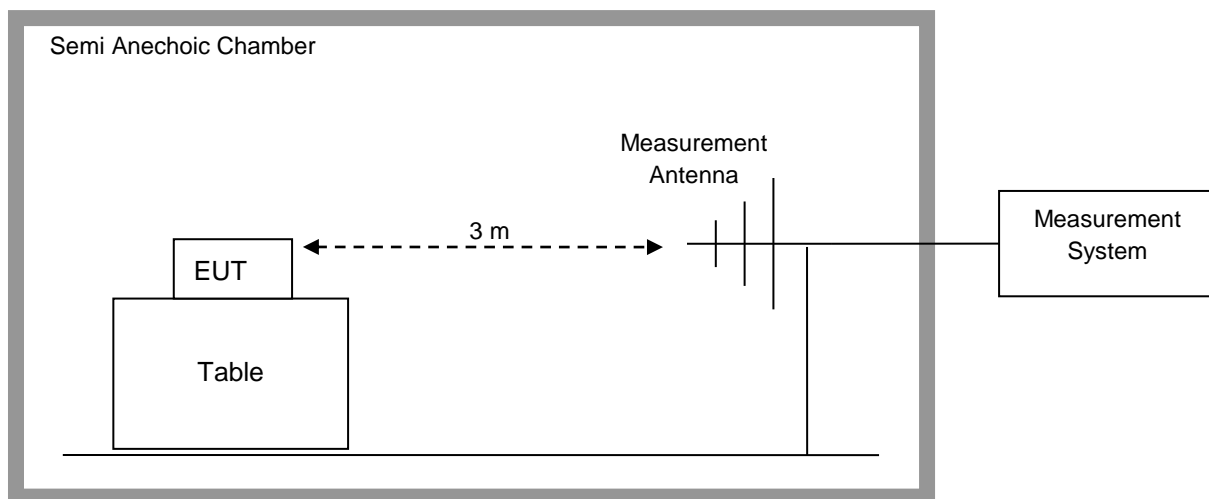
## 5 Test Results

### 5.1 Bandwidth Measurement

Refer to No. SYBH(Z-RF)20181115007001-2006

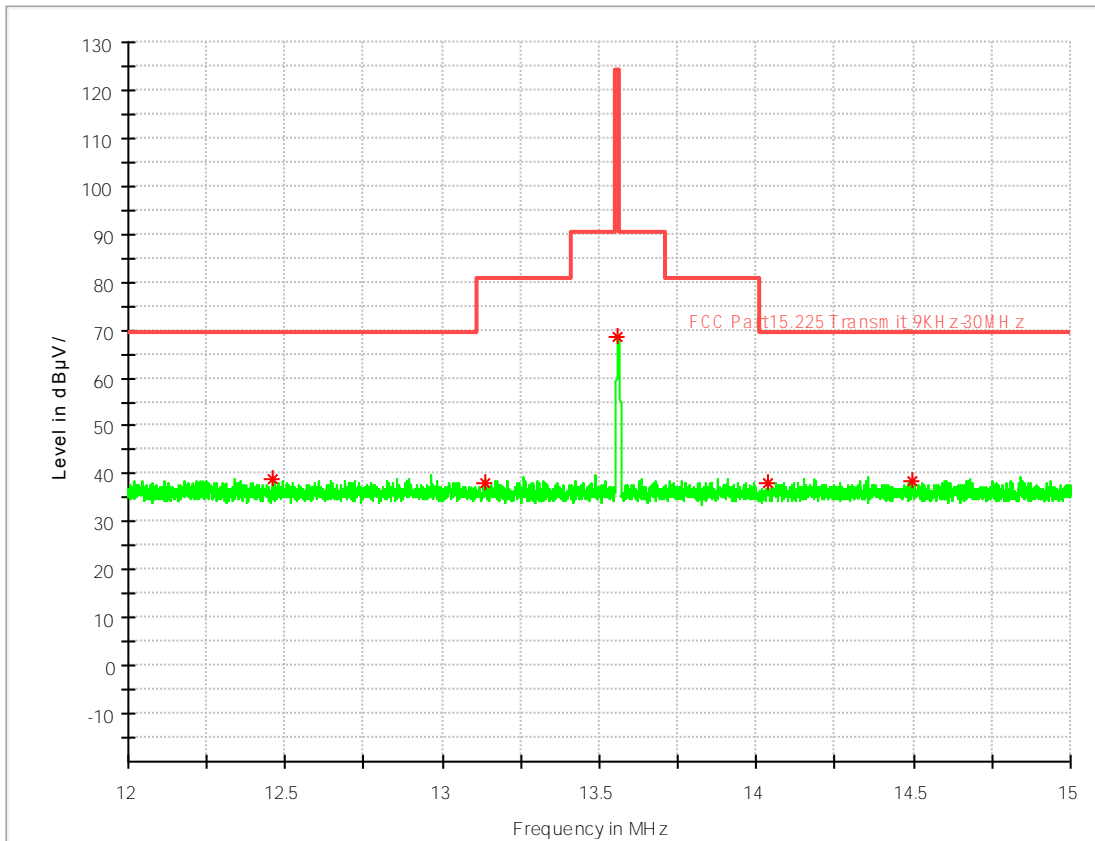
### 5.2 In-Band Radiated Spurious Emission Measurements

#### 5.2.1 Test Setup



Measurement parameters	
Detector:	Quasi Peak
Sweep time:	-/-
Resolution bandwidth:	10 kHz
Video bandwidth:	10 kHz
Span:	-/-
Trace-Mode:	Max Hold

#### 5.2.2 Test Result



MEASUREMENT RESULT: QP Detector

Frequency (MHz)	Quasi Peak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Azimuth (deg)
12.462000	39.09	69.50	30.41	292.0
13.138125	37.92	80.50	42.58	63.0
13.559438	68.41	124.00	55.59	0.0
14.038500	38.17	69.50	31.33	212.0
14.496938	38.63	69.50	30.87	45.0

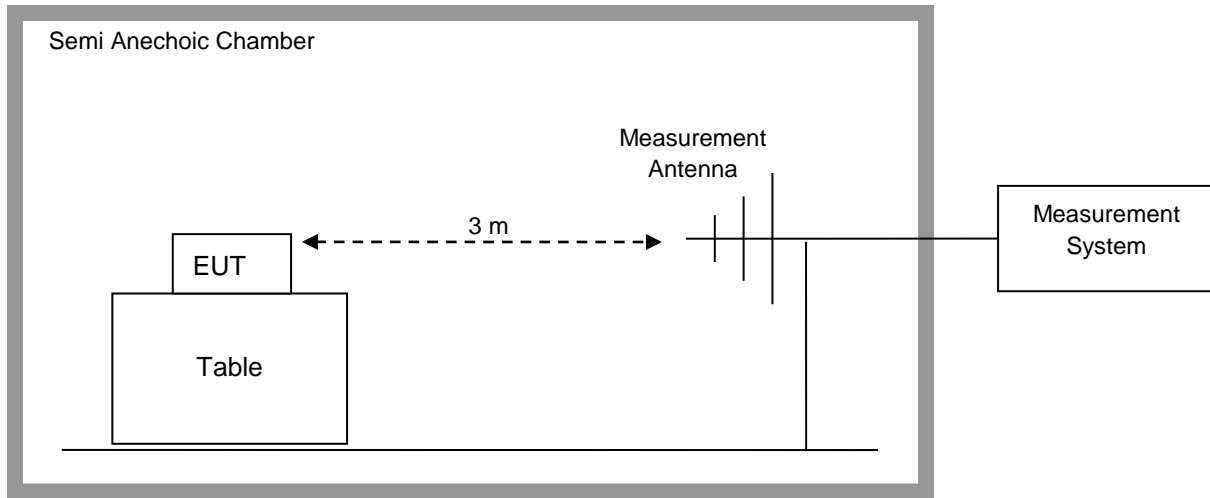
**NOTES:**

1. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
2. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2). Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40\text{dB}$
3. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
4. Level = Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain). The reading level is calculated by software which is not shown in the sheet.

**The result of the measurement is passed.**

### 5.3 Radiated Spurious Emission Measurements, Out-of-Band

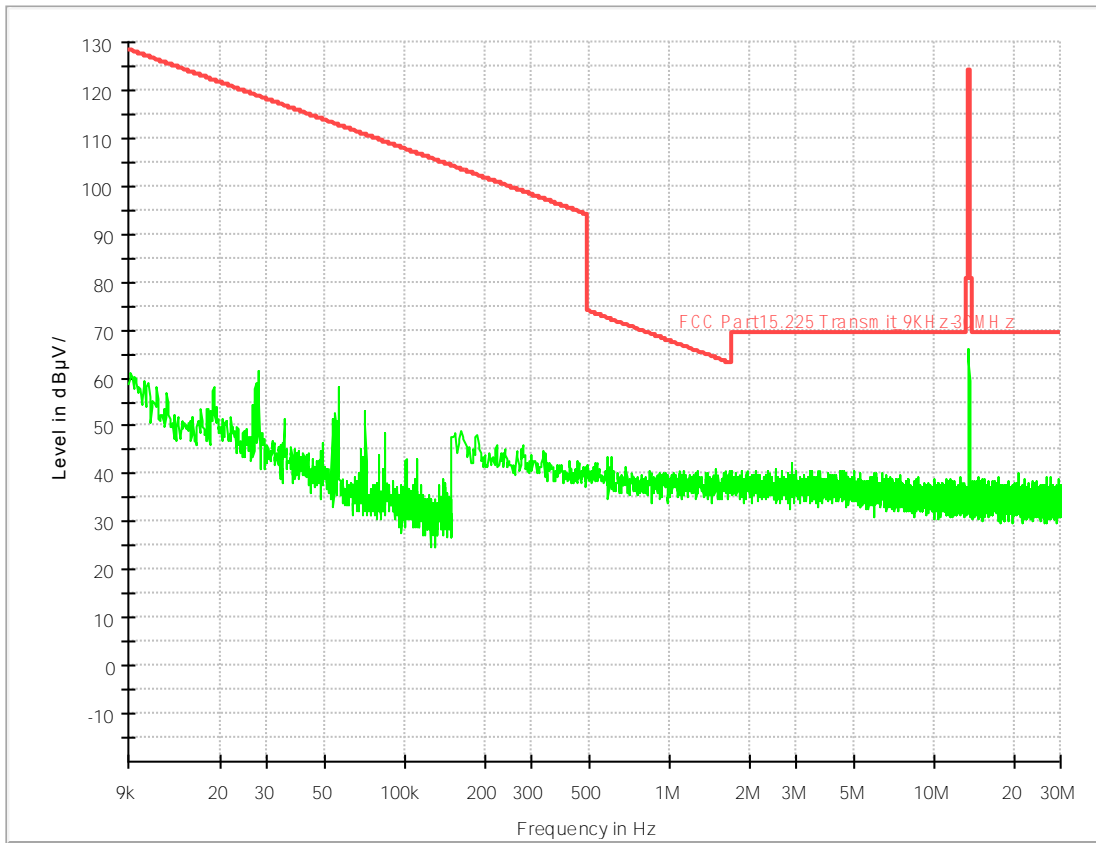
#### 5.3.1 Test Setup



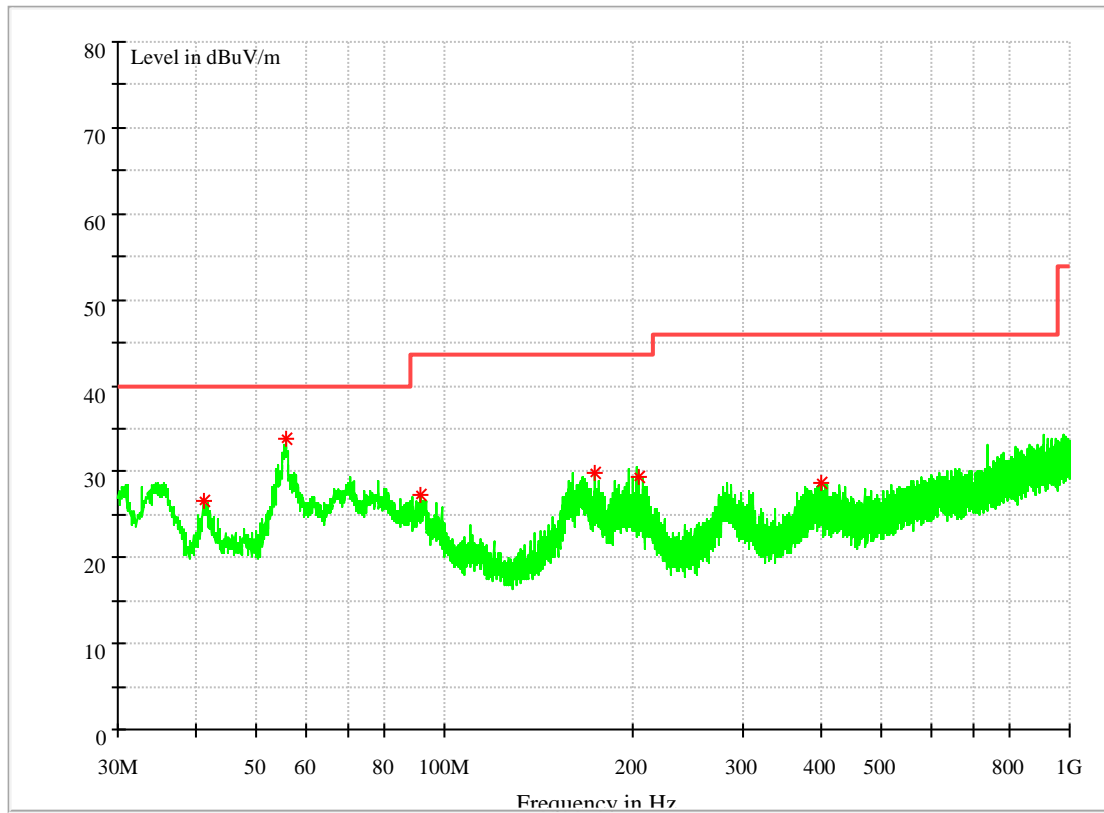
Measurement parameters	
Detector:	Quasi Peak
Sweep time:	Auto
Resolution bandwidth:	9 kHz – 150 kHz: 200 Hz 150 kHz – 30 MHz: 9 kHz 30 MHz – 1000 MHz: 100 kHz
Video bandwidth:	9 kHz – 150 kHz: 200 Hz 150 kHz – 30 MHz: 9 kHz 30 MHz – 1000 MHz: 100 kHz
Span:	See Plots
Trace-Mode:	Max Hold

#### 5.3.2 Test Result

9k~30MHz



30M-1GHZ



**MEASUREMENT RESULT: QP Detector**

Frequency (MHz)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Transd. (dB)
41.058000	26.57	40.00	13.43	100.0	V	357.0	14.5
55.656500	33.79	40.00	6.21	100.0	V	184.0	13.5
91.643500	27.33	43.50	16.17	100.0	V	91.0	12.9
173.366000	29.88	43.50	13.62	100.0	H	262.0	10.4
204.648500	29.31	43.50	14.19	100.0	H	17.0	11.9
401.073500	28.60	46.00	17.40	100.0	V	283.0	16.9

**NOTES:**

1. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector for emissions below 960MHz.
2. Both Vertical and Horizontal polarities of the receive antenna were evaluated with the worst case emissions being reported. Below 30MHz the Loop antenna was positioned in 3 separate radials.
3. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
4. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
5. Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain). The reading level is calculated by software which is not shown in the sheet.

**The result of the measurement is passed.**

## 5.4 Frequency Stability

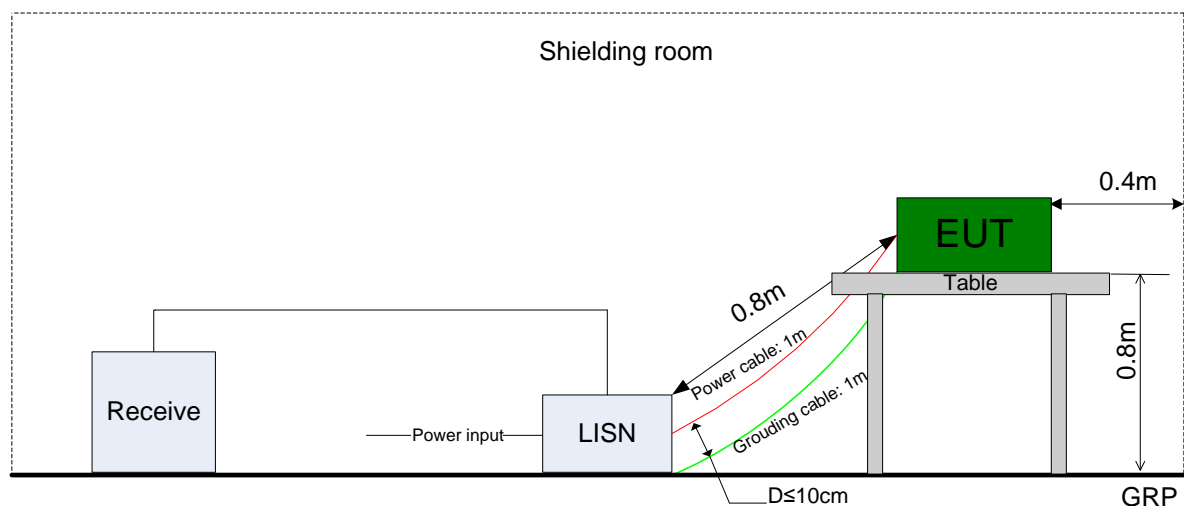
Refer to No. SYBH(Z-RF)20181115007001-2006

## 5.5 AC Power Line Conducted Emissions

### 5.5.1 Test Setup

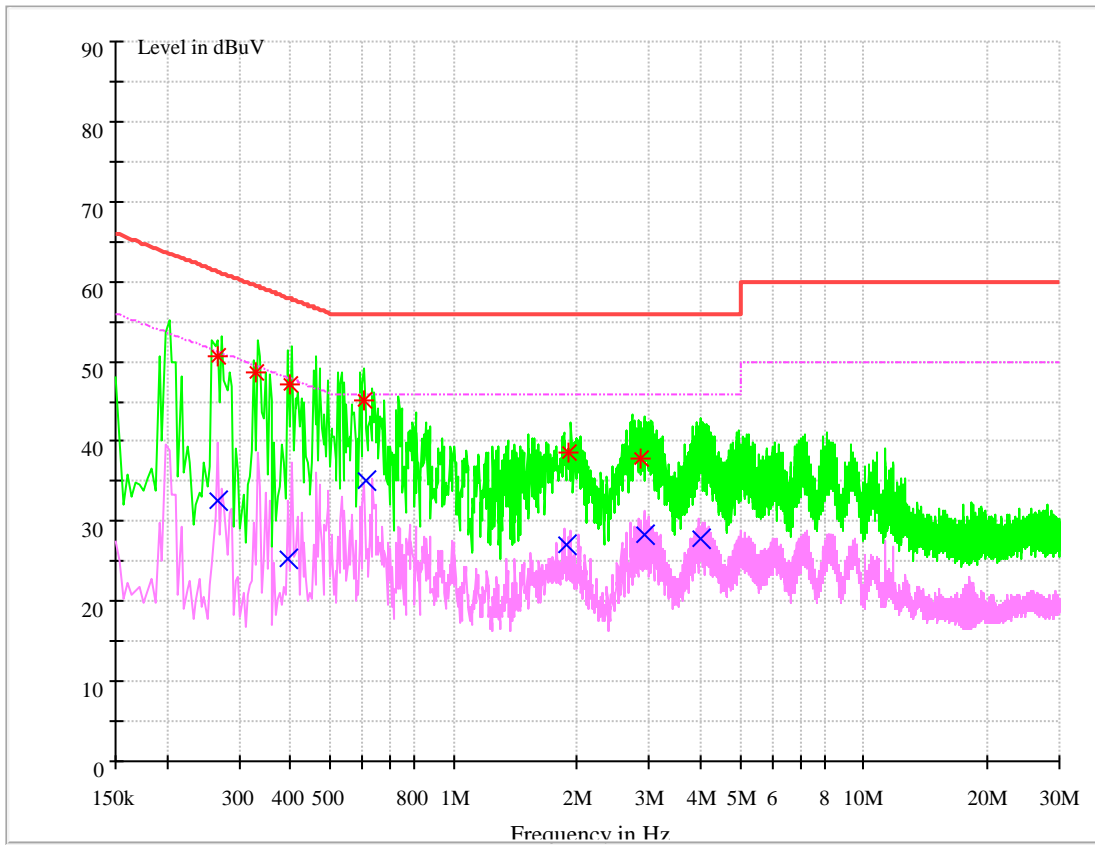
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.



### 5.5.2 Test Result





MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dB $\mu$ V	Limit dB $\mu$ V	Transd dB	Margin dB	Line	PE
0.264802	50.58	61.28	9.7	10.70	N	FLO
0.329456	48.69	59.47	9.7	10.78	N	FLO
0.398575	47.14	57.88	9.7	10.74	N	FLO
0.607109	45.12	56.00	9.7	10.88	L1	FLO
1.906984	38.73	56.00	9.7	17.27	N	FLO
2.869767	37.83	56.00	10.4	18.18	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB $\mu$ V	Limit dB $\mu$ V	Transd dB	Margin dB	Line dB $\mu$ V	PE
0.265041	32.52	51.27	9.7	18.76	N	FLO
0.393850	25.41	59.47	9.7	22.57	N	FLO
0.609844	35.03	57.88	9.7	10.97	L1	FLO
1.886775	27.05	56.00	9.7	18.95	N	FLO
2.912240	28.38	56.00	9.7	17.62	N	FLO
4.025930	27.85	56.00	10.5	18.15	N	FLO

Note:

1, Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)

The reading level is calculated by software which is not shown in the sheet.

2, Margin=Limit - Level

## 6 MAIN TEST INSTRUMENTS

### 1.6 History Test Project/Report

Refer to No. SYBH(Z-RF)20181115007001-2006

### 1.7 Current Test Project/Report

This table gives a complete overview of the RF measurement equipment.

Devices used during the test described are marked

#### 1.7.1 Test Location 1:

<input checked="" type="checkbox"/> Main Test Equipment( RE test system)						
Marked	Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
<input checked="" type="checkbox"/>	Test receiver	R&S	ESU26	100387	2019/01/15	2020/01/14
<input checked="" type="checkbox"/>	LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100262	2017/04/25	2019/04/25
<input type="checkbox"/>	LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100263	2017/04/25	2019/04/25
<input checked="" type="checkbox"/>	Trilog Broadband Antenna (30M~3GHz)	SCHWARZB ECK	VULB 9163	9163-357	2017/04/21	2019/04/20
<input type="checkbox"/>	Trilog Broadband Antenna (30M~3GHz)	SCHWARZB ECK	VULB 9163	9163-520	2017/3/29	2019/3/28
<input type="checkbox"/>	Trilog Broadband Antenna (30M~3GHz)	SCHWARZB ECK	VULB 9163	9163-491	2017/3/29	2019/3/28
<input type="checkbox"/>	Trilog Broadband Antenna (30M~3GHz)	SCHWARZB ECK	VULB 9163	9163-356	2018/4/9	2020/4/8
<input checked="" type="checkbox"/>	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100305	2017/4/21	2019/4/20
<input type="checkbox"/>	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF906	100684	2017/5/27	2019/5/26
<input type="checkbox"/>	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF906	100683	2017/3/29	2019/3/28
<input checked="" type="checkbox"/>	Pyramidal Horn Antenna(18GHz-26.5GHz)	ETS-Lindgren	3160-09	5140299	2017/07/20	2019/07/19
<input type="checkbox"/>	Pyramidal Horn Antenna(18GHz-26.5GHz)	ETS-Lindgren	3160-09	00206665	2018/4/21	2020/4/20
<input checked="" type="checkbox"/>	Pyramidal Horn Antenna(26.5GHz-40GHz)	ETS-Lindgren	3160-10	00205695	2018/04/20	2020/04/19

<input type="checkbox"/>	Pyramidal Horn Antenna(26.5GHz-40GHz)	ETS-Lindgren	3160-10	LM5947	2017/07/20	2019/07/19
<input checked="" type="checkbox"/>	Measurement Software	R&S	EMC32 V9.25.0	/	/	/

<input checked="" type="checkbox"/> Main Test Equipment( CE test system)						
Marked	Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
<input type="checkbox"/>	Test receiver	R&S	ESU26	100387	2019/01/15	2020/01/14
<input checked="" type="checkbox"/>	Test receiver	R&S	ESCI	101163	2019/01/15	2020/01/14
<input type="checkbox"/>	Artificial Main Network	R&S	ENV4200	100134	2018/05/08	2019/05/07
<input checked="" type="checkbox"/>	Line Impedance Stabilization Network	R&S	ENV216	100382	2018/05/08	2019/05/07
<input checked="" type="checkbox"/>	Measurement Software	R&S	EMC32 V9.25.0	/	/	/

## 7 System Measurement Uncertainty

For a 95% confidence level ( $k = 2$ ), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
All Emissions, Radiated	Field Strength [dB $\mu$ V/m]	For 3 m Chamber: U = 5.90 dB (30 MHz-1 GHz) U = 4.94 dB (1 GHz-18 GHz) U = 4.24 dB (18 GHz-26.5 GHz)
AC Power Line Conducted Emissions	Disturbance Voltage[dB $\mu$ V]	U=2.3 dB

-----The END-----