



EMC Test Report

Product Name: Smart Phone

Model Number: ALP-L29, ALP-L09

Report No: SYBH(Z-EMC)20180205020001-2

FCC ID: QISALP-LX9

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- 2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01
- 3. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369A-1.
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Applicant: Huawei Technologies Co., Ltd. Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C **Date of Receipt Test Item:** Mar.18,2018 **Start Date of Test:** Mar.18,2018 **End Date of Test:** Mar.28,2018 **Test Result: Pass** Approved By 2018-3-29 Roger Zhang (Lab Manager) Date Name

2018-3-28

Date

Prepared by

(Test Engineer)

Peng Shao Hua

Name

Signature



Modification Record

| No. | Last Report No. | Modification Description | | | |
|-----|----------------------------|--------------------------------------|--|--|--|
| 1 | NA | NA | | | |
| 2 | SYBH(Z- EMC)060072017-2 | CA_2C, CA_7C, CA_38C,CA_41CSupported | | | |



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1 General Information

1.1 EUT Description

| EUT Description | | | | | |
|-----------------|--|--|--|--|--|
| Product Name | Smart Phone | | | | |
| Model Number | ALP-L29, ALP-L09 | | | | |
| Input voltage | 3.82V DC | | | | |
| TX Frequency | GSM 850: 824MHz to 849MHz PCS 1900: 1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE BAND 2: 1850MHz to 1910MHz LTE BAND 4: 1710MHz to 1755MHz LTE BAND 5: 824MHz to 849MHz LTE BAND 7: 2500MHz to 2570MHz LTE BAND 12: 699MHz to 716MHz LTE BAND 17: 704MHz to 716MHz LTE BAND 26: 814MHz to 849MHz LTE BAND 38: 2570MHz to 2620MHz LTE BAND 41: 2545MHz to 2655MHz WIFI/Bluetooth: 2400MHz to 2483.5MHz WIFI 5G:5150MHz to 5350MHz 5470MHz to 5850MHz NFC: 13.56MHz | | | | |
| RX Frequency | GSM 850: 869MHz to 894MHz GSM 1900: 1930MHz to 1990MHz WCDMA Band II: 1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 2155MHz WCDMA Band V: 869MHz to 894MHz LTE BAND 2: 1930MHz to 1990MHz LTE BAND 4: 2110MHz to 2155MHz LTE BAND 5: 869MHz to 894MHz LTE BAND 7: 2620MHz to 2690MHz LTE BAND 12: 729MHz to 746MHz LTE BAND 17: 734MHz to 746MHz LTE BAND 26: 859MHz to 894MHz LTE BAND 38: 2570MHz to 2620MHz LTE BAND 41: 2545MHz to 2655MHz WIFI/Bluetooth: 2400MHz to 2483.5MHz WIFI 5G:5150MHz to 5350MHz NFC:13.56MHz GPS: 1575.42MHz | | | | |
| S/N | D3H011722000155/ D3H011722002651 | | | | |
| HW Version | HL1AALPSM | | | | |
| SW Version | ALP-L29:ALP-L29 8.0.0.129 (C900log) ALP-L09:ALP-L09 8.0.0.129 (C900log) | | | | |
| EUT Accessory | , | | | | |
| USB(04071289) | Data Cable USB A Male to USB Type C, Shielded Manufacturer: LUXSHARE-ICT Co., Ltd. | | | | |



| | Chang Shu Honglin Technology Co.,Ltd. |
|---------------------|--|
| | Manufacturer: |
| | JIANGXI LIANCHUANG HONGSHENG ELECTRONIC CO., |
| Earphone(22040296) | BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD |
| | Goer Tek Inc |
| | MERRY ELECTRONICS (SHENZHEN) CO., LTD. |
| | Manufacturer: Huawei Technologies Co.,Ltd. |
| | Model: HW-050450U00 Input voltage: 100-240V 50/60Hz ,0.75A |
| | , , |
| | Output voltage: 5V === 2A OR 5V === 4.5A OR |
| Adapter | 4.5V === 5A Rated Power: 10W/22.5W |
| | SN:K83171H4J05129 |
| | C82708H5J05554 |
| | H828K8H3V05002 |
| | P8281OH6920035 |
| | Manufacturer: Huawei Technologies Co.,Ltd. |
| | Model: HW-050450E00 |
| | nput voltage: 100-240V 50/60Hz ,0.75A |
| | Output voltage: 5V === 2A OR 5V === 4.5A OR |
| Adapter | 4.5V === 5A Rated Power: 10W/22.5W |
| | SN:P8301OH7412711 |
| | C82708H5J05553 |
| | H828K8H3V05001 |
| | K83059H4V07826 |
| | Manufacturer: Huawei Technologies Co.,Ltd. |
| | Model: HW-050450B00 nput voltage: 100-240V 50/60Hz ,0.75A |
| | Output voltage: 5V === 2A OR 5V === 4.5A OR |
| | 4.5V === 5A |
| Adapter | Rated Power: 10W/22.5W |
| | SN: C82708H5J05554 |
| | H828K8H3V05003 |
| | K82971H3R11886 |
| | P82922H3J31706 |
| | Manufacturer: Huawei Technologies Co.,Ltd. Model: HW-050450A00 |
| | nput voltage: 100-240V 50/60Hz ,0.75A |
| | Output voltage: 5V === 2A OR 5V === 4.5A OR |
| Adaptor | 4.5V === 5A |
| Adapter | Rated Power: 10W/22.5W |
| | SN: C82708H5J05557 |
| | H828K8H3V05006 |
| | K83171H4J05584 |
| | P82922H3J31708 Manufacturer: Huawei Technologies Co.,Ltd. |
| | Battery Model: HB436486ECW |
| | Rated capacity: 3900mAh |
| Rechargeable Li-ion | Nominal Voltage: === +3.82V |
| | Charging Voltage: === +4.4V |
| | SN:4XSCAYH315X000FS |
| | 4XTDLCH319900131 |



4XSDSIH405X00092

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



1.2 Differences Description

1 The changed points:

| | Before | After |
|---------------------|-------------|------------------------|
| Supported uplink CA | Unsupported | CA_2C, CA_7C, |
| | | CA_38C,CA_41CSupported |

With the consideration of difference, all the EMC tests were tested on the model ALPS-L29 (report number: SYBH(Z-EMC)060072017-2).

2 The only difference between ALP-L29 and ALP-L09 is that ALP-L09 deletes into single SIM card by software. Other parts of the two models are the same. With the consideration of difference, all the EMC tests were tested on the model ALP-L29

1.3 Test Site Information

| Test Site 1: | RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD. |
|---------------------|--|
| Test Site Location: | No.2 New City Avenue Songshan Lake Sci. &Tech. Industry Park, Dongguan, Guangdong, P.R.C |

1.4 Applied Standards

APPLIED STANDARD

Report No: SYBH(Z-EMC)060072017-2

47 FR FCC Part 15:2017, Subpart B



2 Summary of Results

| Summary of Results | | | | | | |
|---|----------------------------|---|--------|-------|--|--|
| Test Items | Test Mode | Performance Class & Required Performance Criteria | Result | Site | | |
| Radiated Emissions Enclosure Port | Mode1~ Mode4 , Mode6 | CLASS B | Pass | Site1 | | |
| Conducted Emissions □DC Power Port □AC Power Port □Telecommunication Ports Mode1~ Mode6 CLASS B Pass | | | | | | |
| Note: 1, Measurement taken is within the uncertainty of test system. 2, ☑ The item has been tested; ☐ The item has not been tested. | | | | | | |

During the measurement, the environmental conditions complied with the range listed as below.

| Item | Required |
|----------------------|--------------|
| Ambient temperature | 15°C∼35°C |
| Relative humidity | 25%~75% |
| Atmospheric pressure | 86kPa∼106kPa |



3 System Configuration during EMC Test

3.1 Test Mode

The EUT was configured, installed, arranged and operated in a manner consistent with typical application. The following mode(s) were applied during the compliance test.

| Test Mode | |
|-----------|-------------------------------------|
| Mode 1: | Charging+ Camera On + Idle |
| Mode 2: | Earphone + Camera On + Idle |
| Mode 3: | Charging+ video Playing + Idle |
| Mode 4: | Earphone + video Playing + Idle |
| Mode 5 | Charging+Traffic+BT+WIFI+NFC+GPS ON |
| Mode 6 | USB Copy(EUT with PC) |

Remark:

- If there is one kind of accessories with different models, each one should be applied throughout the compliance test respectively, however, only the worst case will be recorded in this report.
- 2) If EUT has more than one typical operation, only the worst test mode will be recorded in this report.

Traffic Mode:

When the EUT state is switched on and with Radio Resource Control (RRC) connection established.

Idle Mode:

When the EUT state is switched on but without Radio Resource Control (RRC) connection.

Worst Case:

1) Radiated Emission

Adapter(Model: HW-050450U00, SN: K83059H4V07826) + Camera On + Idle the result is the worst(30MHz~1GHz).

USB Copy(EUT with PC) the result is the worst(1GHz~18GHz).

USB Copy(EUT with PC) the result is the worst(18GHz~25.6GHz).

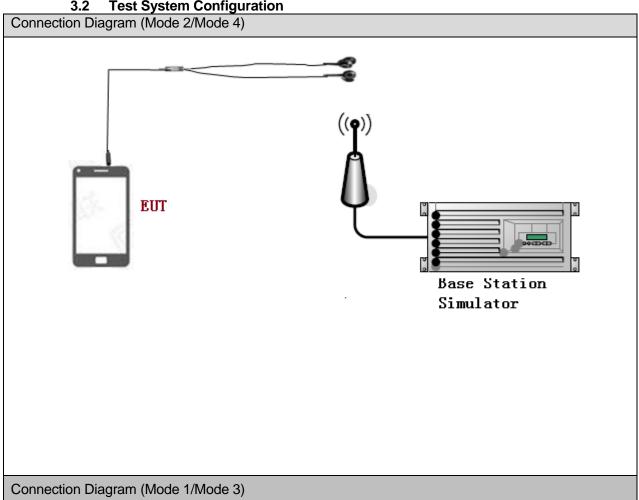
USB Copy(EUT with PC) the result is the worst(25.6GHz~40GHz).

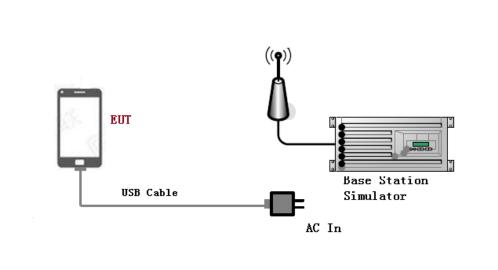
2) Conducted Emission

Adapter(Model: HW-050450U00, SN: P8281OH6920035) + Camera On + Idle the result is the worst.



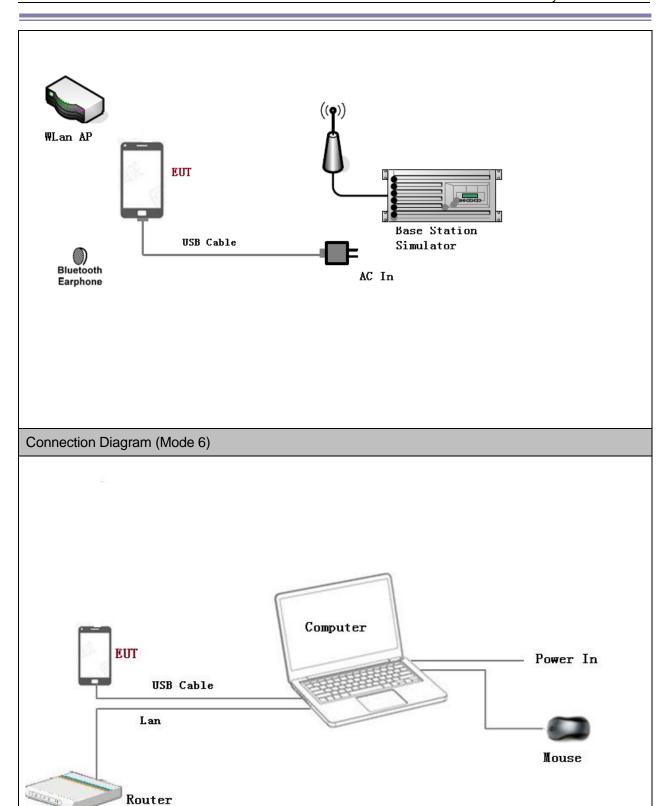
Test System Configuration





Connection Diagram (Mode 5)







3.3 Cables Used during Test

| Cable | Quantity | Length | Type of Cable | |
|----------|----------|--------|---------------|--|
| USB | 1 | <3m | Shielded | |
| Earphone | 1 | <3m | Unshielded | |

3.4 Associated Equipment Used during Test

| Name | Model | Manufact urer | S/N | Calibrated Deadline | Cal interval |
|----------------------------------|---------|------------------|------------|------------------------|-----------------|
| Radio Communication Tester | CMU200 | R&S | 3608082535 | 2019-03-01 | 12 |
| Radio Communication Tester | MT8820C | Anritsu | A110518805 | 2018-05-15 | 12 |
| Notebook | S3 | ThinkPad | A140714638 | / | / |
| Mouse | MOHQUO | HP | GIK28AA | | / |



4 Electromagnetic Interference (EMI)

4.1 Radiated Disturbance 30MHz to 40GHz

4.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4-2009. The test distance was 3m.The set-up and test methods were according to ANSI C63.4-2009.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 40 GHz by using test script of software; The emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV/PK detector (above 1GHz). The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m. The azimuth range of turntable was 0°to 360°. The receiving antenna has two polarizations V and H.

Measurement bandwidth (RBW) for 30MHz to 1000 MHz: 120 kHz; Measurement bandwidth (RBW) for 1000MHz to 40000 MHz: 1MHz;

EUT was configured in idle mode and the test performed at worst emission state.

4.1.2 Test setup

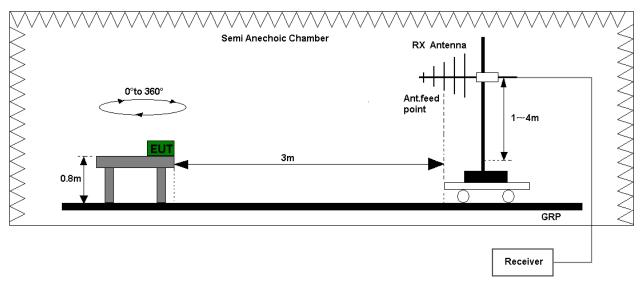


Figure 1.Test set-up of radiated disturbance(30MHz-1GHz)

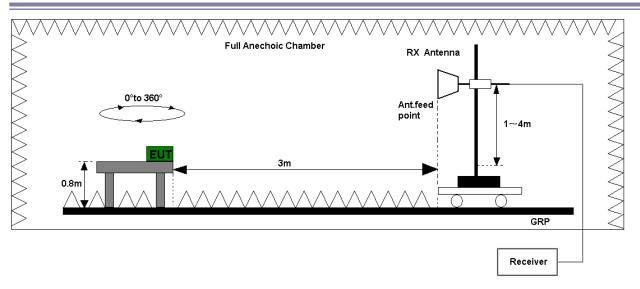


Figure 2. Test set-up of radiated disturbance (above 1GHz)



4.1.3 Test Results

Report No: SYBH(Z-EMC)060072017-2

The EUT has met the requirements for Radiated Emission of enclosure port. Refer to the section 7.1.1 of this report for test data.

| Test Limits (Class B) | | | | | | |
|-----------------------------|------------|--|--------------|----|--|--|
| Frequency of Emission (MHz) | | | | | | |
| (IVII 12) | Unit(µV/m) | | Unit(dBµV/m) | | | |
| 30-88 | 100 | | 40 | | | |
| 88-216 | 150 | | 43.5 | | | |
| 216-960 | 200 | | 46 | | | |
| Above 960 | 500 | | | 54 | | |
| Above 1000 | AV PK | | AV | PK | | |
| | 500 5000 | | 54 | 74 | | |



4.2 Conducted Disturbance 0.15 MHz to 30MHz

4.2.1 Test Procedure

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm away from LISN. The set-up and test methods were according to ANSI C63.4-2009. Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

EUT was communicated with the simulator through Air interface, the simulator controls the EUT to transmitter the maximum power which defined in specification of product. The EUT operated on the typical channel.

Measurement bandwidth (RBW) for 150 kHz to 30 MHz: 9 kHz;

The EUT was set in the shielded chamber and operated under nominal conditions.

4.2.2 Test Setup

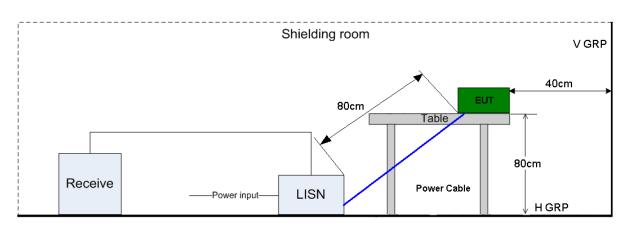


Figure 3. Test Set-up of conducted disturbance

4.2.3 Test Results

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The EUT has met requirements for Conducted disturbance of power lines. Refer to the section 7.2.1 of this report for test data.

| Test Limit of AC Power Port | | | | | | | | |
|-----------------------------|----------------|----------------|--|--|--|--|--|--|
| Frequency range | 150kHz ~ 30MHz | 150kHz ~ 30MHz | | | | | | |
| Fraguenov. | Voltage limits | Voltage limits | | | | | | |
| Frequency | QP (dBµV) | AV (dBμV) | | | | | | |
| 0.15MHz~0.5MHz | 66-56 | 56-46 | | | | | | |
| 0.5MHz-5MHz | 56 | 46 | | | | | | |
| 5MHz~30MHz | 60 | 50 | | | | | | |



5 Main Test Instruments

| | Main Test Equipments | | | | | | | | | | |
|-----------|--------------------------------------|-----------------------|------------------|------------------|---------------|------------------|-------------------|---------------------|-----------------|--|--|
| Test item | Ins | Test strument | M | odel | S/N | Manufa er | ctur | Calibrated Deadline | Cal interval | | |
| | EMI Test receiver | | ES | SU26 | 100150 | R&S | 8 | Jun. 20, 2018 | 12 | | |
| | | oadband Intenna | VULI | B 9163 | 9163-491 | SCHW/ BECI | | Mar. 28, 2019 | 24 | | |
| RE | _ | n Antenna 1-18G) | HF | - 906 | 100683 | R&S | 3 | Mar. 28, 2019 | 24 | | |
| I IL | Horn Antenna (26.5-40G) | | | 3160- 10 | LM5947 | ETS LINDGF | | Jul. 19, 2019 | 24 | | |
| | - | n Antenna 3-26.5G) | - I - I S 3160-0 | | 5140299 | ETS- LINDGREN | | Jul. 19, 2019 | 24 | | |
| | А | mplifier | R&S | | SCU-40 | 10016 | | May. 15, 2018 | 12 | | |
| | | MI Test eceiver | ESU26 | | 100150 | R&S | | May. 15, 2018 | 12 | | |
| CE | | cial Mains letwork | FNV4200 100134 | | R&S | | R&S May. 15, 2018 | | | | |
| | | cial Mains letwork | EN | V216 | 100382 | R&S | R&S May. 15, 2018 | | 12 | | |
| | | | | Softv | ware Informat | tion | | | | | |
| Test Ite | Test Item Software Name Manufacturer | | | | | Version | | | | | |
| RE | | EMC3 | EMC32 R&S | | | | | V9.25.0 | | | |
| CE | | EMC3 | 2 | | R&S | | | V9.25.0 | | | |

6 System Measurement Uncertainty

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For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

| System Measurement Uncertainty | | | | | | | | |
|--------------------------------|----------------------------|---------------|--|--|--|--|--|--|
| | Extended Uncertainty | | | | | | | |
| RE(30MHz-1GHz) | Field strength (dBµV/m) | U=4.1dB; k=2 | | | | | | |
| RE(1GHz-18GHz) | Field strength (dBµV/m) | U=5.1dB; k=2 | | | | | | |
| RE(18GHz-26.5GHz) | Field strength (dBµV/m) | U=4.82dB; k=2 | | | | | | |
| RE(26.5GHz-40GHz) | Field strength (dBµV/m) | U=5.22dB; k=2 | | | | | | |
| CE | Disturbance Voltage (dBµV) | U=2.5dB; k=2 | | | | | | |



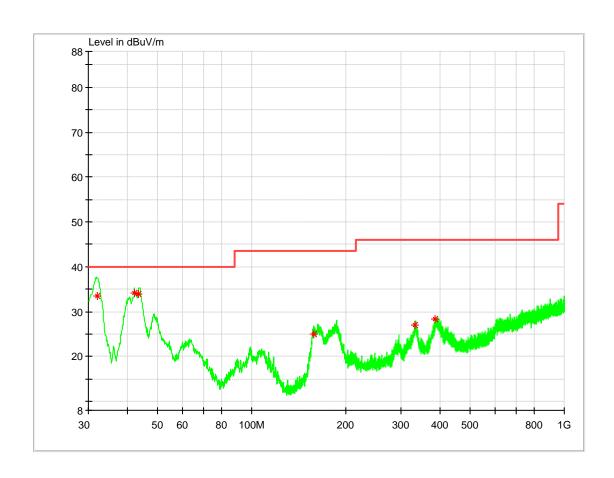
7 Test Data and Graph

Only the worst test results were shown

7.1 Radiated Disturbance

7.1.1 30MHz~1GHz

Test Mode 1: Charging+Camera On +idle



MEASUREMENT RESULT: QP Detector

| MEAGOREMENT REGGET: QT Detector | | | | | | | | |
|---------------------------------|--------|--------|--------|--------|--------|---------|--------------|--|
| Frequency | Level | Transd | Limit | Margin | Height | Azimuth | | |
| MHz | dBµV/m | dB | dBµV/m | dB | cm | deg | Polarisation | |
| 32.168450 | 33.48 | 14.8 | 40.00 | 6.52 | 107.0 | 221.0 | VERTICAL | |
| 42.194750 | 34.08 | 15.4 | 40.00 | 5.92 | 100.0 | 309.0 | VERTICAL | |
| 43.537250 | 33.99 | 15.3 | 40.00 | 6.01 | 100.0 | 302.0 | VERTICAL | |
| 157.651150 | 24.96 | 10.5 | 43.50 | 18.54 | 100.0 | 291.0 | VERTICAL | |
| 333.998650 | 27.05 | 16.8 | 46.00 | 18.95 | 117.0 | 99.0 | HORIZONTAL | |
| 386.053000 | 28.25 | 17.8 | 46.00 | 17.75 | 100.0 | 284.0 | HORIZONTAL | |

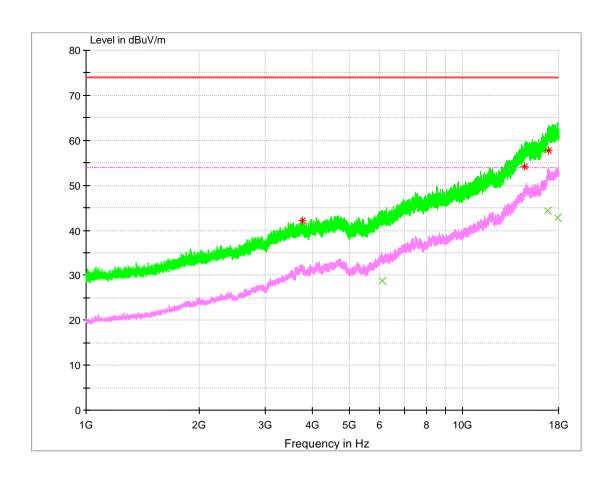
Note:

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.



7.1.2 1GHz~18GHz

Test Mode 6: USB Copy(EUT with PC)



MEASUREMENT RESULT: PK Detector

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarisation |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 3749.836000 | 42.15 | -3.3 | 74.00 | 31.85 | 110.0 | 225.0 | VERTICAL |
| 14589.356000 | 54.25 | 16.9 | 74.00 | 19.75 | 117.0 | 286.0 | VERTICAL |
| 16949.612666 | 57.78 | 20.7 | 74.00 | 16.22 | 100.0 | 82.0 | HORIZONTAL |

MEASUREMENT RESULT: AV Detector

| Frequency | Level | Transd | Limit | Margin | Height | Azimuth | Polarisation |
|--------------|--------|--------|--------|--------|--------|---------|--------------|
| MHz | dBµV/m | dB | dBµV/m | dB | cm | deg | Polarisation |
| 6125.288667 | 28.72 | 1.7 | 54.00 | 25.28 | 117.0 | 213.0 | HORIZONTAL |
| 16878.915333 | 44.39 | 21.0 | 54.00 | 9.61 | 133.0 | 323.0 | VERTICAL |
| 17879.881333 | 42.77 | 21.6 | 54.00 | 11.23 | 126.0 | 34.0 | VERTICAL |

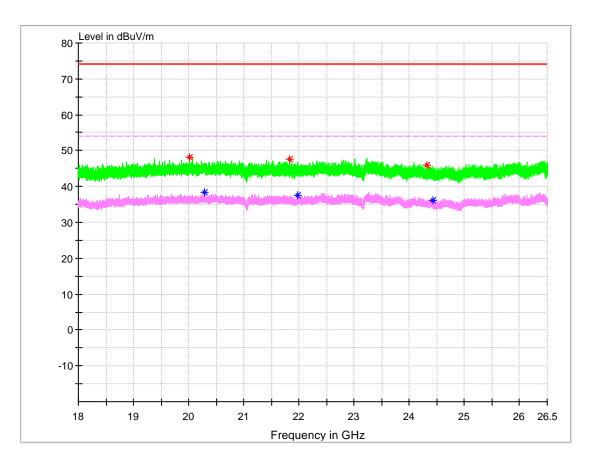
Note:

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.



7.1.3 18GHz~26.5GHz

Test Mode 6: USB Copy(EUT with PC)



MEASUREMENT RESULT: PK Detector

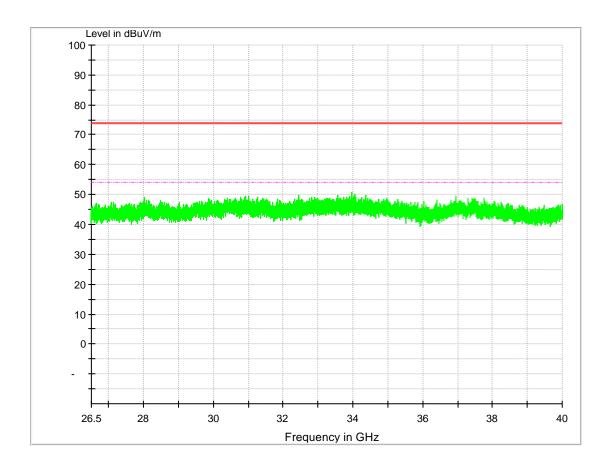
| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarisation |
|------------------|-----------------|--------------|-----------------|--------------|-----------|-------------|--------------|
| 20014.075000 | 48.16 | -4.7 | 74.00 | 25.84 | 100.0 | 298.0 | HORIZONTAL |
| 21834.350000 | 47.57 | -4.0 | 74.00 | 26.43 | 100.0 | 286.0 | VERTICAL |
| 24328.675000 | 46.06 | -2.7 | 74.00 | 27.94 | 100.0 | 15.0 | HORIZONTAL |

MEASUREMENT RESULT: AV Detector

| Frequency | Level | Transd | Limit | Margin | Height | Azimuth | Polarisation | |
|--------------|--------|--------|--------|--------|--------|---------|--------------|--|
| MHz | dBµV/m | dB | dBµV/m | dB | cm | deg | Polarisation | |
| 20296.275000 | 38.37 | -4.7 | 54.00 | 15.63 | 100.0 | 230.0 | VERTICAL | |
| 21979.275000 | 37.62 | -3.9 | 54.00 | 16.38 | 100.0 | 286.0 | VERTICAL | |
| 24431.950000 | 36.05 | -2.7 | 54.00 | 17.95 | 100.0 | 286.0 | VERTICAL | |

7.1.4 26.5GHz~40GHz

Test Mode 6: USB Copy(EUT with PC)



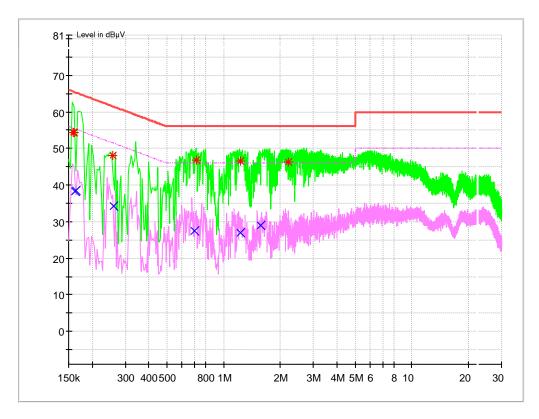
NOTE 1: The data was measured by Peak detector.

NOTE 2: No peak found in the Test Range of "26.5 GHz to 40GHz"



Conducted Disturbance 7.2 AC Port Test Data

Test Mode 1: Charging+Camera On +idle



MEASUREMENT RESULT: QP Detector

| Frequency MHz | Level dBµV | Line | Transd dB | Margin dB | Limit dBµV | PE |
|------------------|---------------|------------|--------------|--------------|---------------|-----|
| 0.159551 | 54.35 | 1.1 | 9.7 | 11.14 | 65.49 | FLO |
| | | <u>L</u> 1 | | | | |
| 0.159914 | 54.27 | L1 | 9.7 | 11.20 | 65.47 | FLO |
| 0.257426 | 48.10 | N | 9.7 | 13.41 | 61.51 | FLO |
| 1.224344 | 46.78 | N | 9.7 | 9.22 | 56.00 | FLO |
| 1.236038 | 46.57 | L1 | 9.7 | 9.43 | 56.00 | FLO |
| 2.215012 | 46.37 | N | 9.7 | 9.63 | 56.00 | FLO |

MEASUREMENT RESULT: AV Detector

| Frequency | Level | Line | Transd | Margin | Limit | PE |
|-----------|-------|------|--------|--------|-------|-----|
| MHz | dΒμV | Line | dB | dB | dΒμV | PE |
| 0.162748 | 38.18 | N | 9.7 | 17.14 | 55.32 | FLO |
| 0.164022 | 38.61 | L1 | 9.7 | 16.65 | 55.26 | FLO |
| 0.261585 | 34.17 | N | 9.7 | 17.21 | 51.38 | FLO |
| 0.701190 | 27.43 | N | 9.7 | 18.57 | 46.00 | FLO |
| 1.224344 | 26.89 | L1 | 9.7 | 19.11 | 46.00 | FLO |
| 0.162748 | 28.86 | N | 9.7 | 17.14 | 46.00 | FLO |

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