



FCC RF Test Report

Product Name: Smart Phone

Model Number: ELE-L29/ELE-L09

Report No.: SYBH(Z-RF)20181114019001-2006
FCC ID : QISELE-LX9

| Autheorized | APPROVED (Lab Manager) | PREPARED (Test Engineer) |
|-------------|---------------------------|-----------------------------|
| BY | Jie Hao | Zhou Longbo |
| DATE | 2018-12-27 | 2018-12-27 |

Reliability Laboratory of Huawei Technologies Co., Ltd.

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※ ※ **Notice** ※ ※

1. The Reliability Laboratory of Huawei Technologies Co., Ltd has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01
2. The Laboratory of Sporton International (Shenzhen) Inc has passed the accreditation by National Voluntary Laboratory Accreditation Program (NVLAP). The NVLAP LAB CODE is 600156-0.
3. The Reliability Laboratory of Huawei Technologies Co., Ltd has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140.
4. The Laboratory of Sporton International (Shenzhen) Inc has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN5019, and the Test Firm Registration Number is 577730.
5. The Reliability Laboratory of Huawei Technologies Co., Ltd has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369A-1.
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8. The test report is invalid if there is any evidence of erasure and/or falsification.
9. The test report is only valid for the test samples.
10. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



MODIFICATION RECORD

| No. | Report No | Modification Description |
|-----|--------------------------|--------------------------|
| 1 | SYBH(Z-RF)20181114019001 | First release. |

DECLARATION

| Type | Description |
|------------------------------|--|
| Multiple Models Applications | <p><input type="checkbox"/> The present report applies to single model.</p> <p><input checked="" type="checkbox"/> The present report applies to several models. The practical measurements are performed with the model <u>ELE-L29</u>.</p> <p>These models utilize the similar radio design, shielding, interface, physical layout and so on. The differences and modifications between these models are declared by the applicant and showed in General Description</p> <p>All others between these models are identical.</p> <p>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) |
|-----------------|---|

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: | 2018-11-22 |
| Start of test: | 2018-11-22 |
| End of test: | 2018-12-25 |



3 Summary

| FCC Rule No. | Test Description | Test Limit | Test Condition | Test Result | Reference | Testing location |
|---------------------|---------------------------------------|--|---------------------|---------------------------------------|-------------|--------------------------------|
| 15.225 (a) | In-Band Emissions | 15,848µV/m @ 30m 13.553 – 13.567 MHz | RADIATED | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.2 | Sub-contracted Test Location 1 |
| 2.1049 | Bandwidth | N/A | | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.1 | Location 1 |
| 15.225(b) | In-Band Emissions | 334µV/m @ 30m 13.410 – 13.553 MHz 13.567 – 13.710 MHz | | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.2 | Sub-contracted Test Location 1 |
| 15.225(c) | In-Band Emissions | 106µV/m @ 30m 13.110 – 13.410 MHz 13.710 – 14.010 MHz | | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.2 | Sub-contracted Test Location 1 |
| 15.225(d) 15.209 | 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 | | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.3 | Sub-contracted Test Location 1 |
| 15.225(e) | Frequency Stability Tolerance | ± 0.01% of Operating Frequency | Temperature Chamber | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.4 | Location 1 |
| 15.207 | AC Conducted Emissions 150kHz – 30MHz | FCC: < FCC 15.207 limits | LINE CONDUCTED | Refer to No. SYBH(Z-RF)20181115007001 | Section 5.5 | Location 1 |

NOTE: 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



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 difference between model ELE-L04 and model ELE-L29 is show in the below table.

| | Model | ELE-L04 | ELE-L29 |
|----------------------|------------|--|---|
| Licensed Frequency | LTE BAND | FCC Band: B2/B4/ B5/B7/B12/B17/B26/B38/ B41 (2535~2655MHz) /B66 | FCC Band: B2/B4/ B5/B7/B12/B17/B26/B38/ B41 (2535~2655MHz) |
| | UMTS BAND | FCC Band: B2/B4/B5 | FCC Band: B2/B4/B5 |
| | GSM | FCC Band: B2/B5 | FCC Band: B2/B5 |
| | 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 | one | two |
| | Hardware version | HL1ELLEM | |
| RF | RF circuit | The hardware channel of LTE B2/4/7(include CA band) is different | The hardware channel of LTE B2/4/7(include CA band) is different |
| Appearance | Dimension | the same | the same |
| | Color | different | different |
| 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: We do not test NFC of ELE-L29/ELE-L09, all test data can refer to No. SYBH(Z-RF)20181115007001 of ELE-L04(FCC ID:QISELE-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 | 5.0.1.73 (SP2C432E73R1P6) | HL1ELLEM |



4.2.2 Sub-Assembly

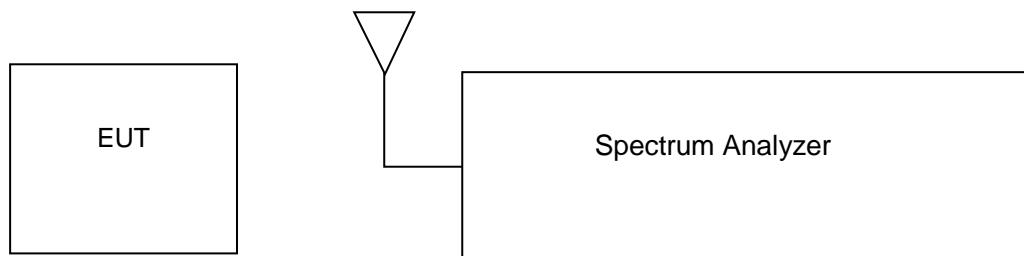
| Sub-Assembly | | | |
|------------------------|--------------|------------------------------|--|
| Sub-Assembly Name | Model | Manufacturer | Description |
| Adapter | HW-050450B00 | Huawei Technologies Co.,Ltd. | Input Voltage:100V-240V~50/60Hz, 0.75A Output Voltage: 5V \equiv 2A OR4.5V \equiv 5A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

5 Test Results

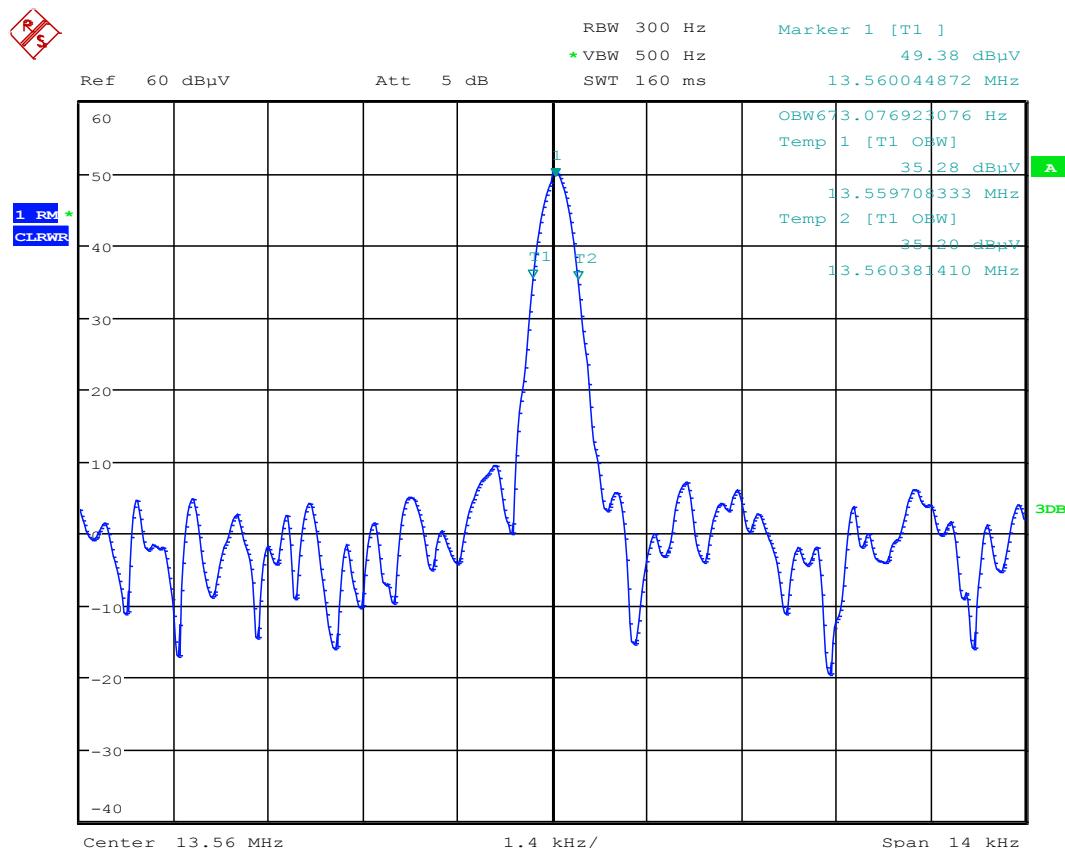
5.1 Bandwidth Measurement

The 99% emission bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

5.1.1 Test Setup



5.1.2 Test Result



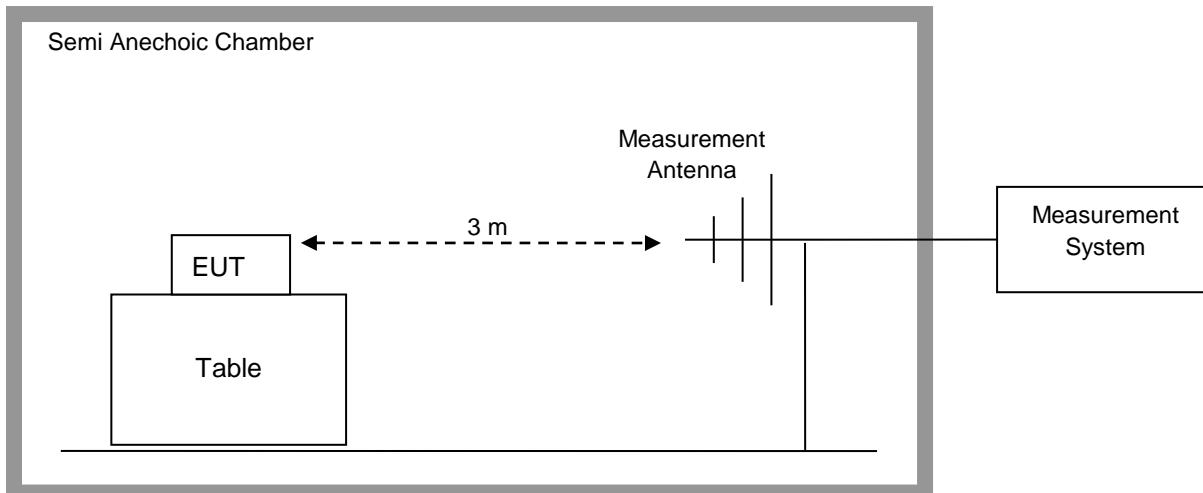
Date: 17.DEC.2018 11:38:33

| Test Environment | OBW (Hz) | FL@OBW (MHz) | FH@OBW (MHz) | Verdict |
|------------------|----------|--------------|--------------|---------|
| TN/VN | 673.077 | 13.559708333 | 13.560381410 | PASS |

The result of the measurement is passed.

5.2 In-Band Radiated Spurious Emission Measurements

5.2.1 Test Setup

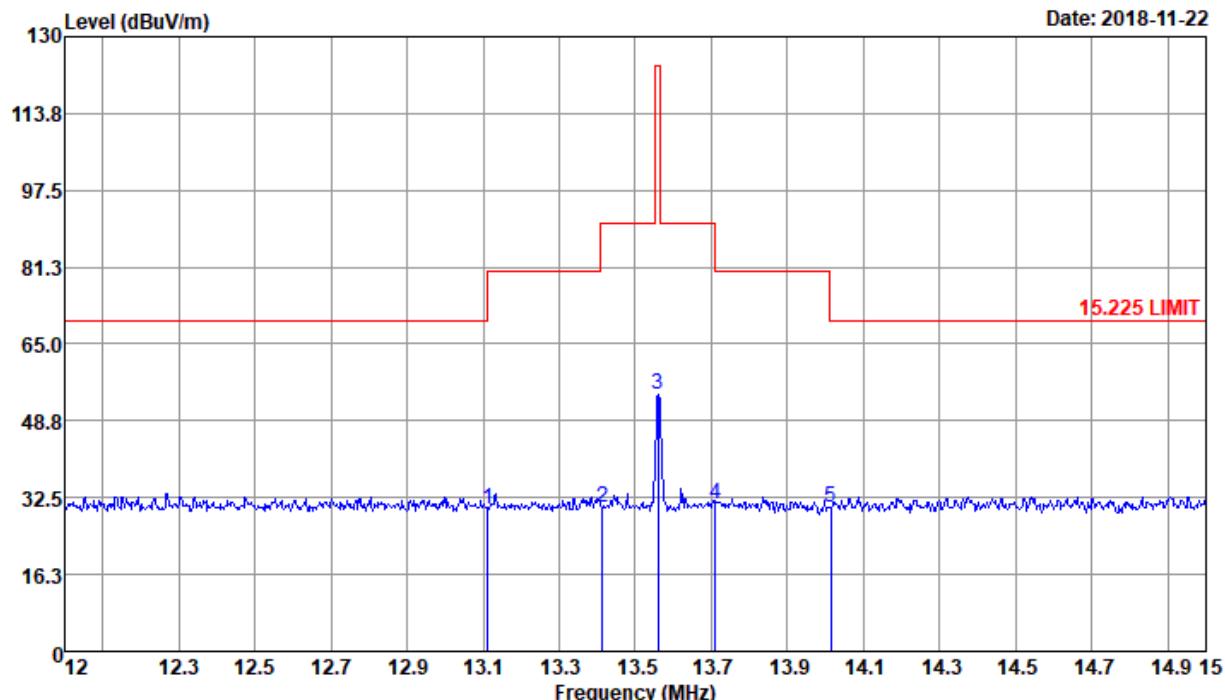


| Measurement parameters | |
|------------------------|------------|
| Detector: | Quasi Peak |
| Sweep time: | -/- |
| Resolution bandwidth: | 10 kHz |
| Video bandwidth: | 10 kHz |
| Span: | -/- |
| Trace-Mode: | Max Hold |

5.2.2 Test Result



Data: 37



Site : 03CH01-SZ
Condition : 15.225 LIMIT 3m LOOP ANT_1806 VERTICAL
: RBW:10.000KHz VBW:10.000KHz

FCC : A

| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | Remark |
|------|--------|-------|--------|-------------|--------|--------|----------------|
| | | Line | Limit | Level | Factor | Loss | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | |
| 1 | 13.11 | 29.89 | -50.62 | 80.51 | 10.71 | 19.18 | 0.00 0.00 Peak |
| 2 | 13.41 | 30.48 | -59.99 | 90.47 | 11.36 | 19.12 | 0.00 0.00 Peak |
| 3 | 13.56 | 54.24 | -69.76 | 124.00 | 35.15 | 19.09 | 0.00 0.00 Peak |
| 4 | 13.71 | 31.18 | -49.33 | 80.51 | 12.12 | 19.06 | 0.00 0.00 Peak |
| 5 pp | 14.01 | 30.25 | -39.75 | 70.00 | 11.25 | 19.00 | 0.00 0.00 Peak |

NOTES:

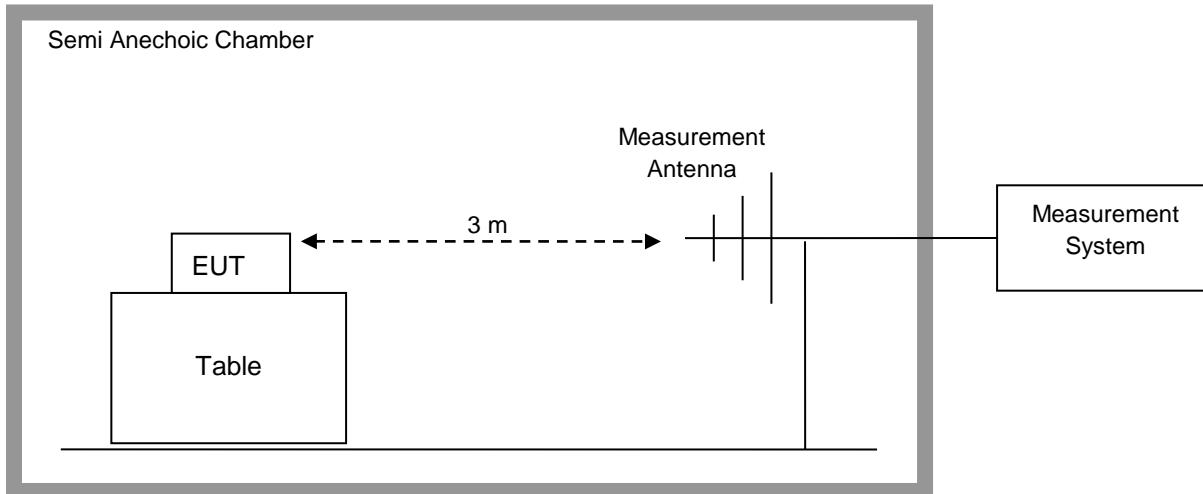
1. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.
2. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance 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



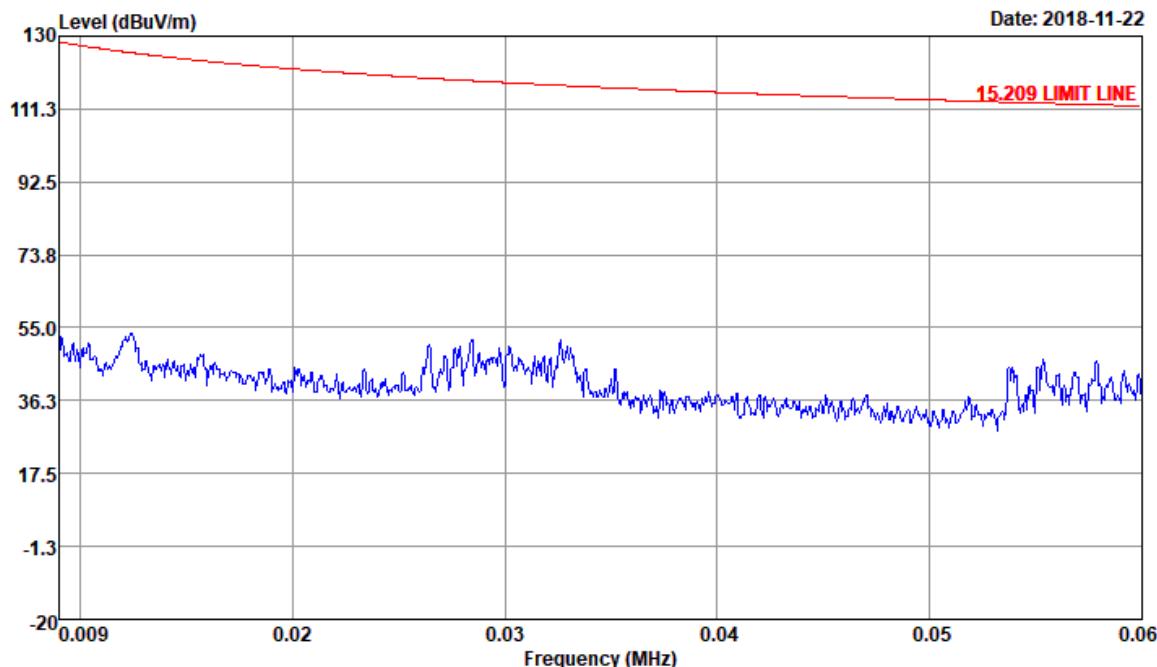
| Measurement parameters | |
|------------------------|--|
| Detector: | Quasi Peak |
| Sweep time: | Auto |
| Resolution bandwidth: | 9 kHz – 150 kHz: 200 Hz 150 kHz – 30 MHz: 9 kHz 30 MHz – 1000 MHz: 100 kHz |
| Video bandwidth: | 9 kHz – 150 kHz: 200 Hz 150 kHz – 30 MHz: 9 kHz 30 MHz – 1000 MHz: 100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

5.3.2 Test Result

9k~30MHz



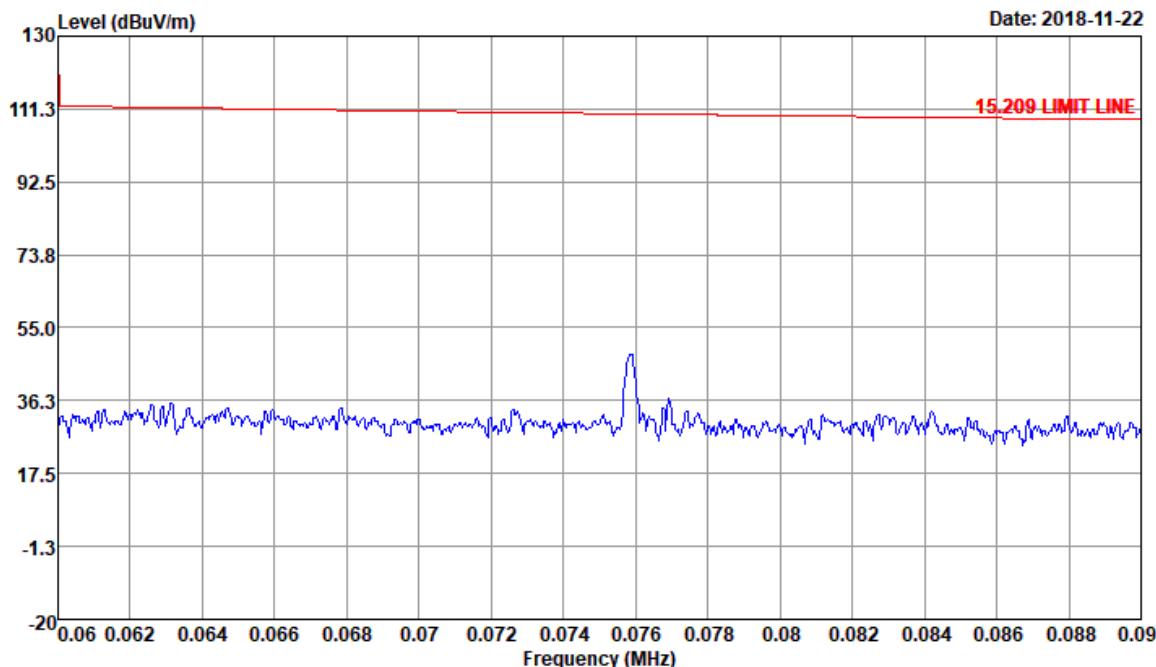
Data: 41



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:0.200KHz VBW:0.600KHz
FCC :



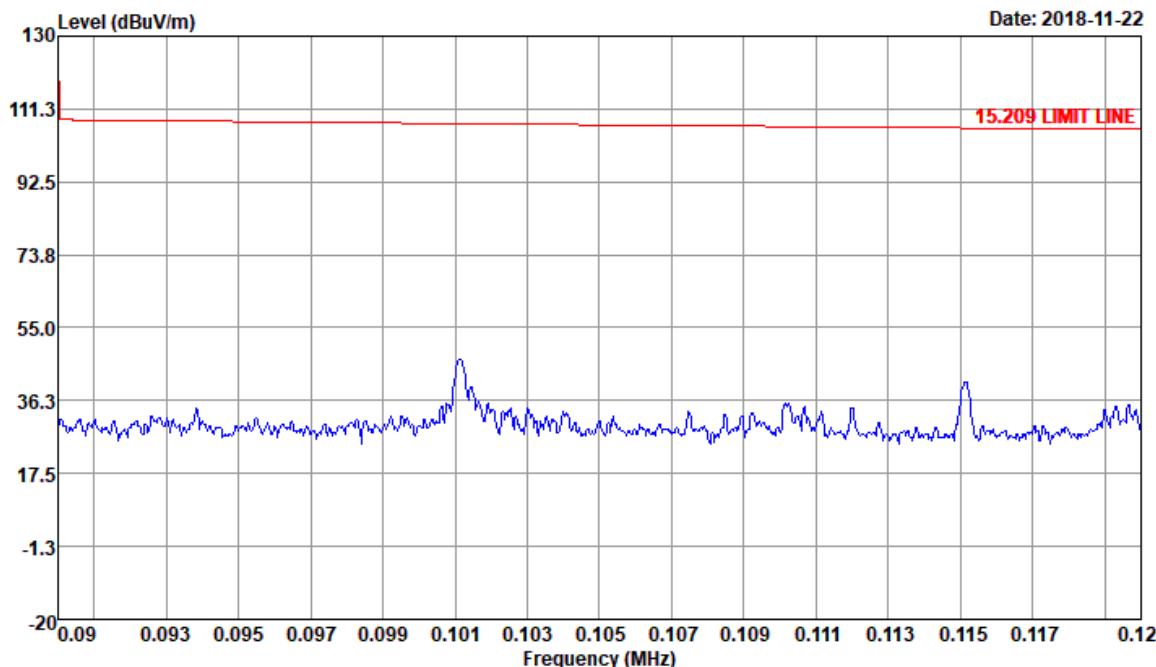
Data: 52



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:0.200KHz VBW:0.600KHz
FCC :



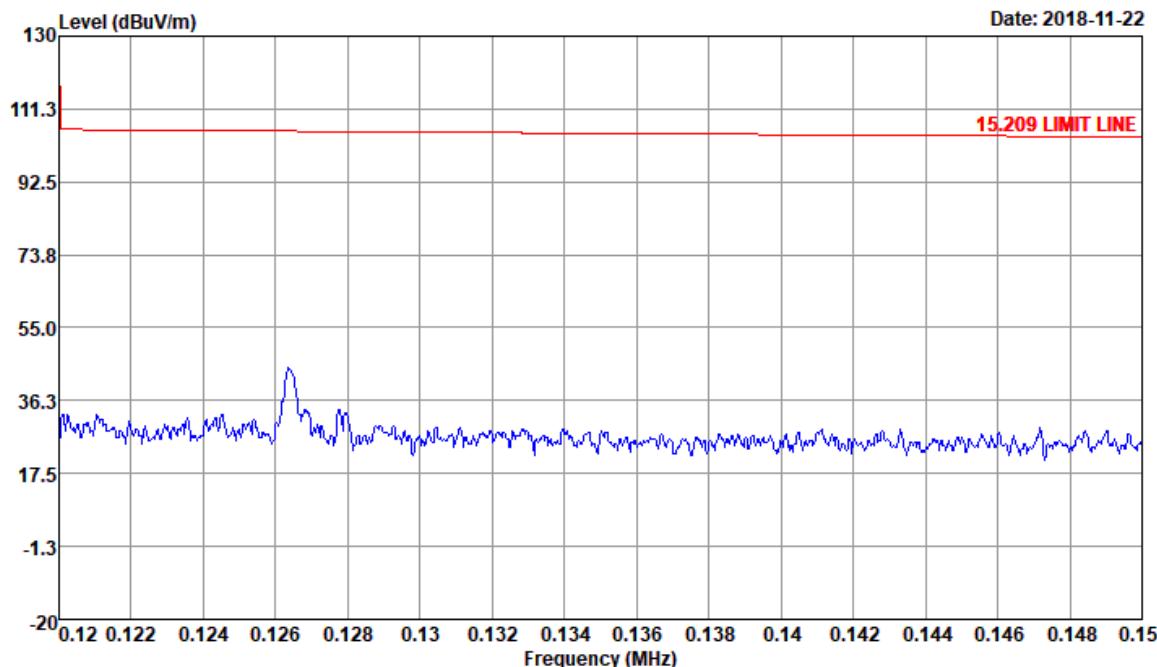
Data: 55



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:0.200KHz VBW:0.600KHz
FCC :



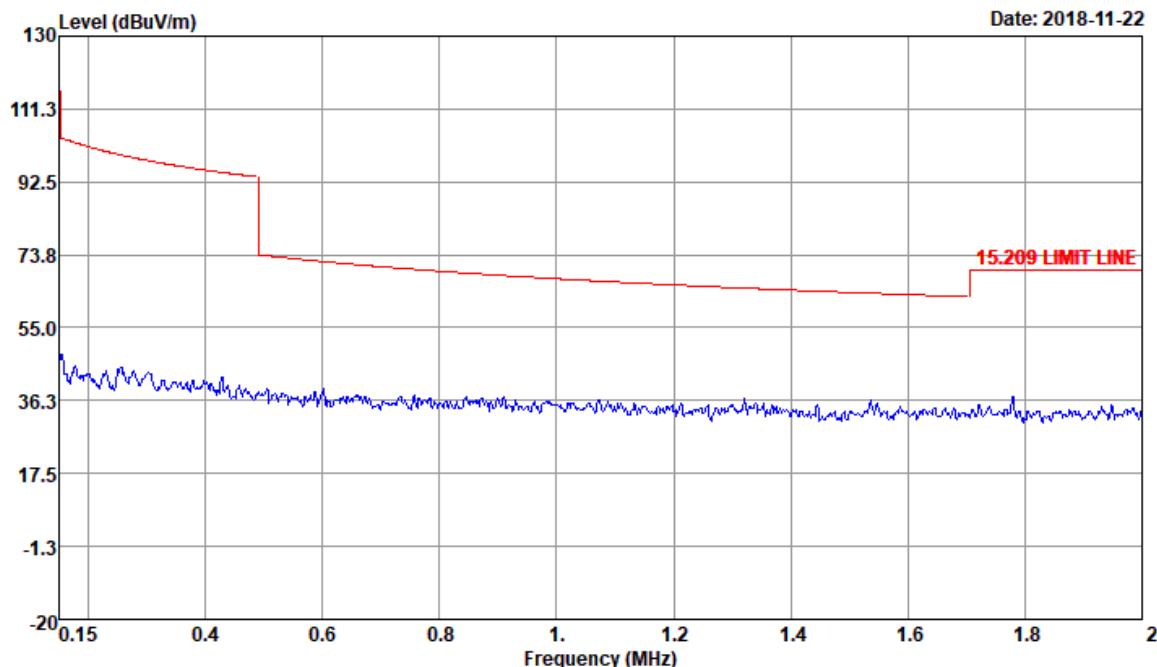
Data: 61



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:0.200KHz VBW:0.600KHz
FCC :



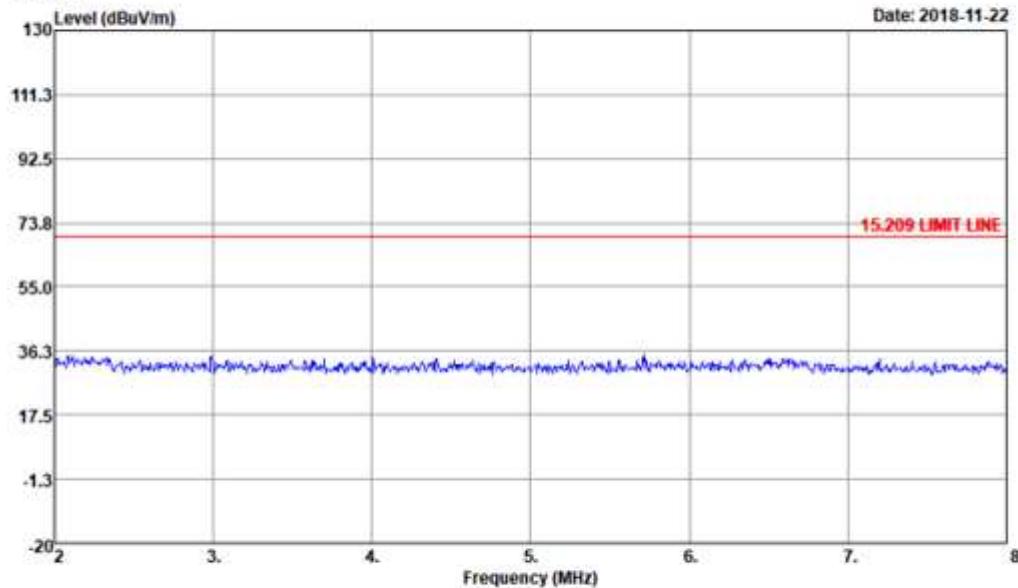
Data: 58



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:9.000KHz VBW:27.000KHz
FCC :



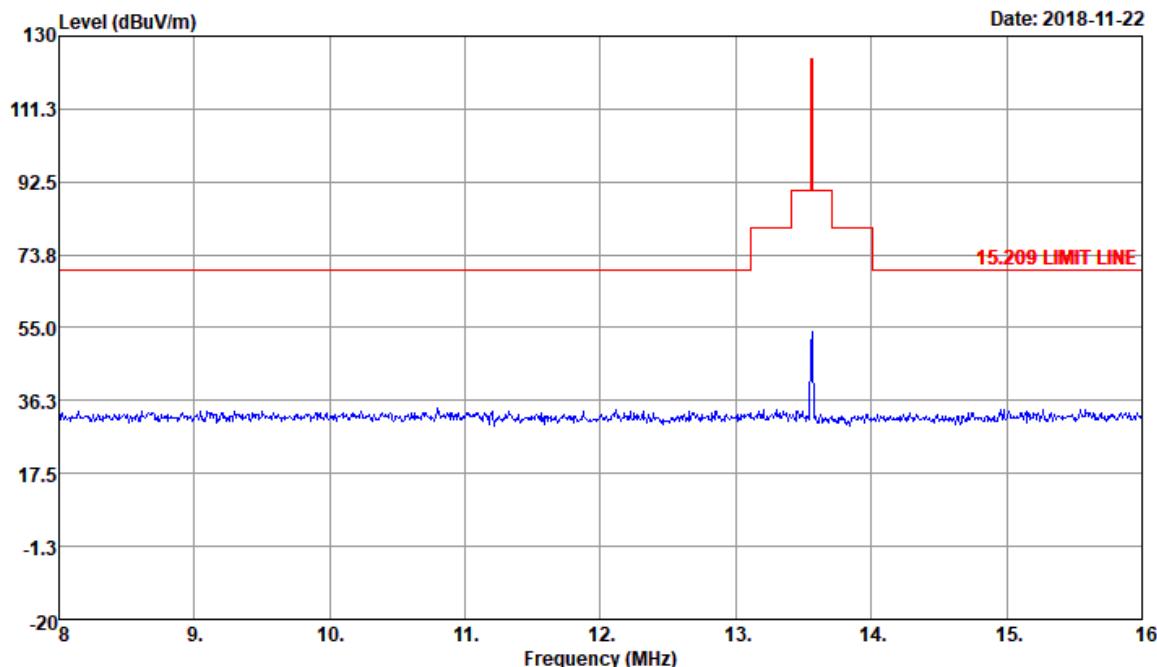
Data: 65



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:9.000KHz VBW:27.000KHz
FCC :



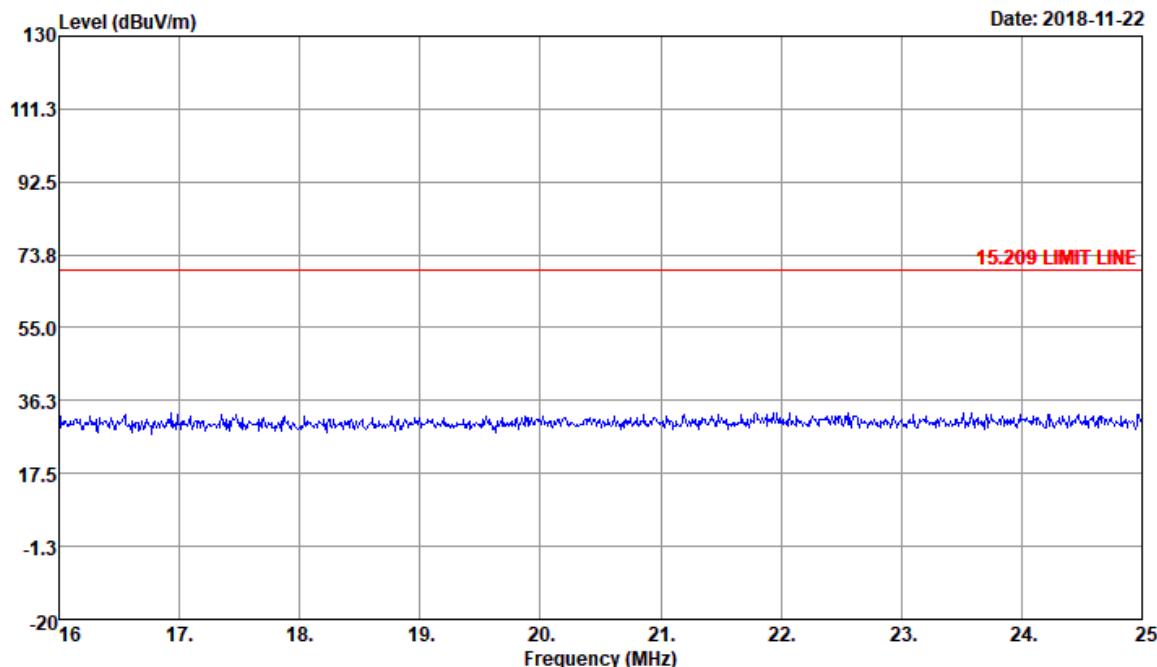
Data: 67



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:9.000KHz VBW:27.000KHz
FCC : B



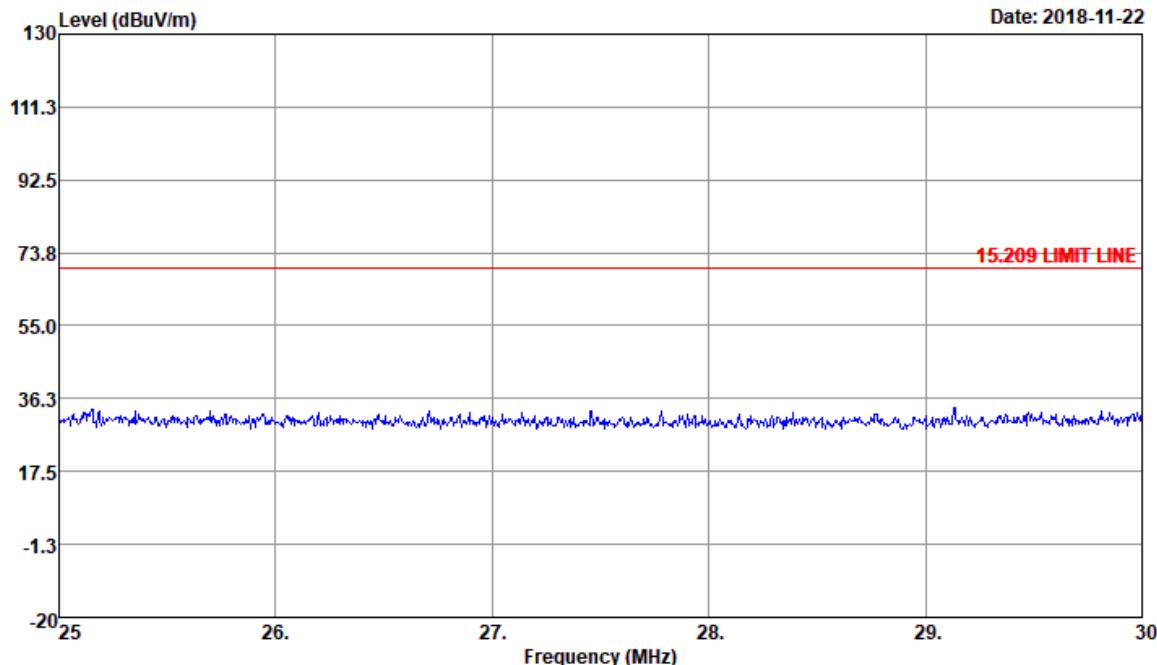
Data: 70



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:9.000KHz VBW:27.000KHz
FCC :

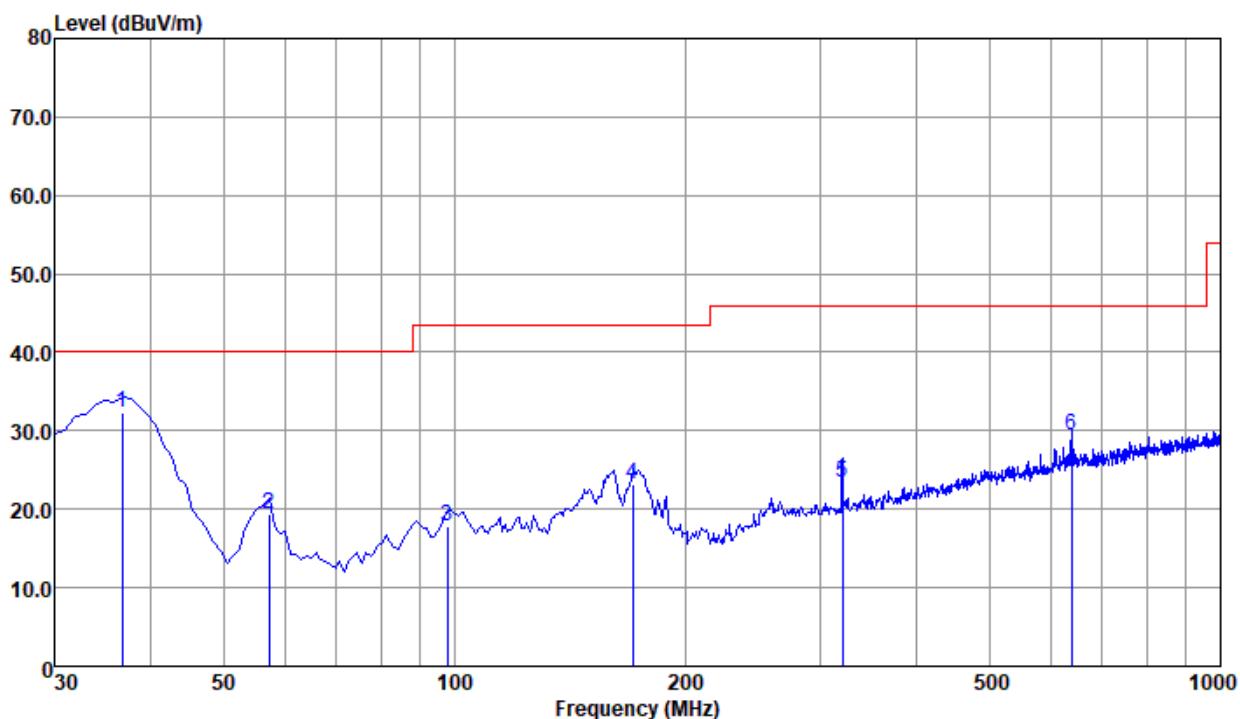


Data: 73



Site : 03CH01-SZ
Condition : 15.209 LIMIT LINE 3m LOOP ANT_1806 HORIZONTAL
: RBW:9.000KHz VBW:27.000KHz
FCC :

30M~1GHz



| Freq | Level | Over Limit | | ReadAntenna Level Factor | Cable Preamp | | Remark |
|------|--------------------|------------|--------|--------------------------|------------------|-------|---------------|
| | | Line | dB | | dB _{uV} | dB/m | |
| MHz | dB _{uV/m} | | | | | | |
| 1 pp | 36.79 | 32.34 | -7.66 | 40.00 | 43.26 | 20.34 | 0.34 31.60 QP |
| 2 | 57.16 | 19.39 | -20.61 | 40.00 | 37.58 | 12.91 | 0.50 31.60 QP |
| 3 | 97.90 | 17.91 | -25.59 | 43.50 | 32.28 | 16.30 | 0.83 31.50 QP |
| 4 | 170.65 | 23.14 | -20.36 | 43.50 | 37.45 | 15.58 | 1.43 31.32 QP |
| 5 | 321.00 | 23.45 | -22.55 | 46.00 | 32.72 | 19.71 | 2.12 31.10 QP |
| 6 | 638.19 | 29.37 | -16.63 | 46.00 | 32.80 | 24.65 | 3.12 31.20 QP |

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

5.4.1 Test Setup

The EUT was placed in a Climatic Chamber. A small whip antenna was placed close to the EUT, and connected to the measuring Spectrum Analyzer. Measurement performed without modulation on TX.

5.4.2 Test Result

| VOLTAGE (%) | POWER Battery | TEMP (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|-------------------|---------------|-----------|----------------|-----------------|----------------|
| 100% | | -20 | 13559982 | -18 | -0.00013274336 |
| 100% | | -10 | 13559985 | -15 | -0.00011061947 |
| 100% | | 0 | 13560015 | 15 | 0.00011061947 |
| 100% | | 10 | 13560013 | 13 | 0.00000958702 |
| 100% | | 20 | 13560008 | 8 | 0.00005899705 |
| 100% | | 30 | 13560018 | 18 | 0.00013274336 |
| 100% | | 40 | 13560012 | 12 | 0.00000884956 |
| 100% | | 50 | 13559982 | -18 | -0.00013274336 |
| Battery End Point | 3.6 | 20 | 13560014 | 16 | 0.00017994100 |
| 115% | 4.35 | 20 | 13559987 | -13 | -0.00000958702 |

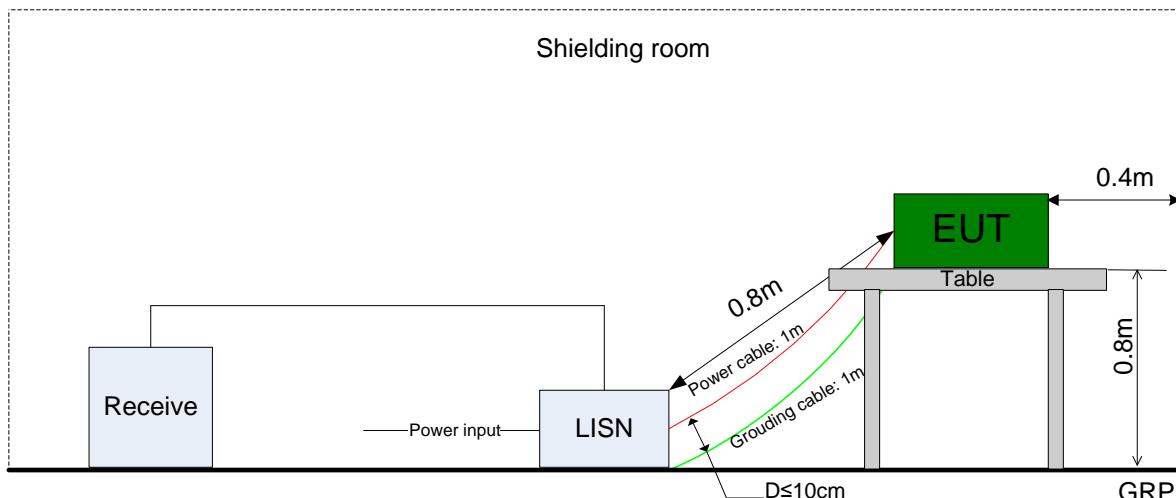
The result of the measurement is passed.

5.5 AC Power Line Conducted Emissions

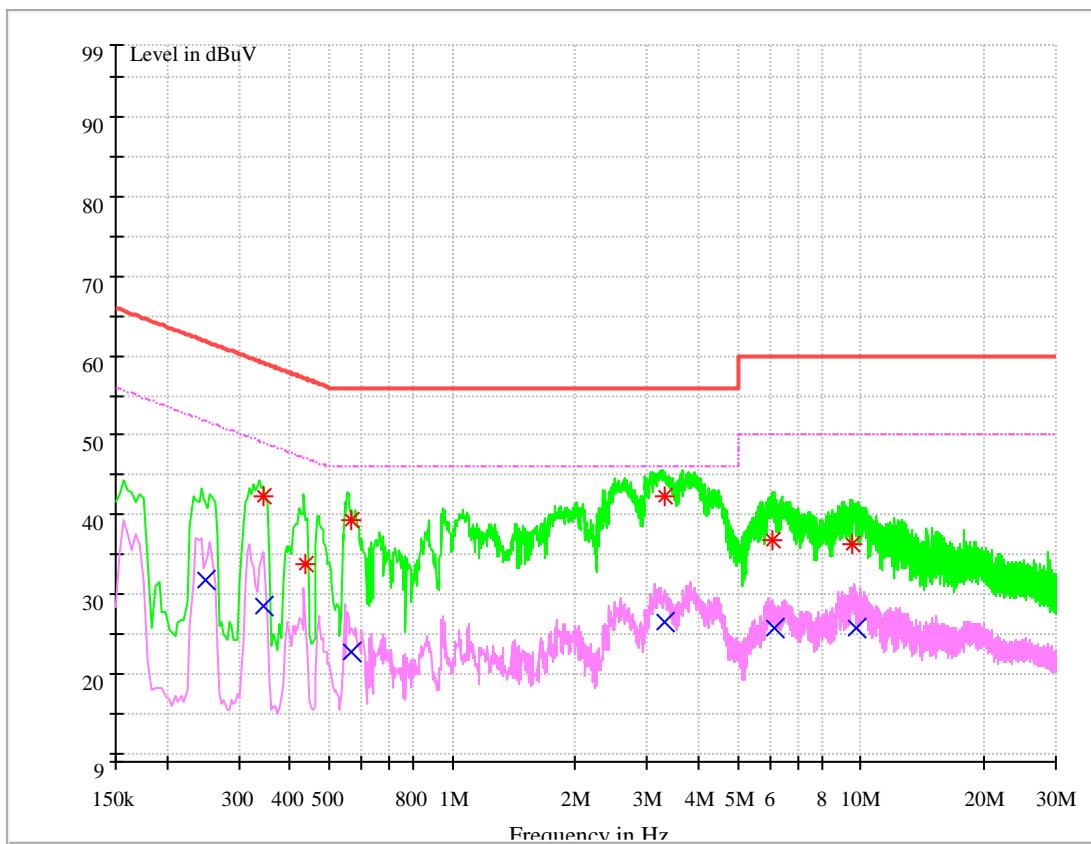
5.5.1 Test Setup

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 μ V | Limit dB μ V | Transd dB | Margin dB | Line | PE |
|------------------|---------------------|---------------------|--------------|--------------|-------|-----|
| 0.344580 | 42.34 | N | 9.7 | 16.75 | 59.09 | FLO |
| 0.436228 | 33.78 | L1 | 9.7 | 23.35 | 57.13 | FLO |
| 0.564266 | 39.43 | L1 | 9.7 | 16.57 | 56.00 | FLO |
| 3.305241 | 42.32 | L1 | 9.7 | 13.68 | 56.00 | FLO |
| 6.106590 | 36.85 | L1 | 9.7 | 23.15 | 60.00 | FLO |
| 9.509814 | 36.37 | L1 | 9.7 | 23.63 | 60.00 | FLO |

MEASUREMENT RESULT: AV Detector

| Frequency MHz | Level dB μ V | Limit dB μ V | Transd dB | Margin dB | Line dB μ V | PE |
|------------------|---------------------|---------------------|--------------|--------------|--------------------|-----|
| 0.247562 | 31.86 | L1 | 9.7 | 19.98 | 51.84 | FLO |
| 0.344575 | 28.60 | L1 | 9.7 | 20.49 | 49.09 | FLO |
| 0.567771 | 22.89 | L1 | 9.7 | 23.11 | 46.00 | FLO |
| 3.307960 | 26.47 | L1 | 9.7 | 19.53 | 46.00 | FLO |
| 6.123200 | 25.77 | L1 | 9.7 | 24.23 | 50.00 | FLO |
| 9.746123 | 25.70 | L1 | 9.7 | 24.30 | 50.00 | 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



The result of the measurement is passed.

6 MAIN TEST INSTRUMENTS

6.1 Test Location 1:

| Main Test Equipments(RSE test system) | | | | | |
|--|---------------|-----------|---------------|-----------|-----------|
| Equipment Name | Manufacturer | Model | Serial Number | Cal Date | Cal-Due |
| Test receiver | R&S | ESU26 | 100387 | 2018/1/20 | 2019/1/19 |
| Spectrum analyzer | R&S | FSU3 | 200474 | 2018/1/20 | 2019/1/19 |
| LOOP Antennas(9kHz-30MHz) | R&S | HFH2-Z2 | 100262 | 2017/4/25 | 2019/4/25 |
| Trilog Broadband Antenna (30M-3GHz) | SCHWARZBECK | VULB 9163 | 9163-490 | 2017/3/29 | 2019/3/29 |
| Trilog Broadband Antenna (30M~3GHz) | SCHWARZBECK | VULB 9163 | 9163-521 | 2017/4/9 | 2019/4/9 |
| Artificial Main Network | R&S | ENV4200 | 100134 | 2018/5/8 | 2019/5/7 |
| Line Impedance Stabilization Network | R&S | ENV216 | 100382 | 2018/5/8 | 2019/5/7 |
| Software Information | | | | | |
| Test Item | Software Name | | Manufacturer | Version | |
| RSE | EMC32 | | R&S | V8.40.0 | |

| Main Test Equipments(CE test system) | | | | | |
|---------------------------------------|---------------|--------|---------------|------------|------------|
| Equipment Name | Manufacturer | Model | Serial Number | Cal Date | Cal-Due |
| Test receiver | R&S | ESCI | 101163 | 2018/01/20 | 2019/01/19 |
| Line Impedance Stabilization Network | R&S | ENV216 | 100382 | 2018/05/08 | 2019/05/07 |
| Software Information | | | | | |
| Test Item | Software Name | | Manufacturer | Version | |
| CE | EMC32 | | R&S | V9.25.0 | |

6.2 Sub-contracted Test Location 1:

| Sub-contracted Test Location 1 :Main Test Equipments | | | | | |
|--|---------------|----------|---------------|----------------------|-----------|
| Equipment Name | Manufacturer | Model | Serial Number | Cal Date | Cal-Due |
| EMI Test Receiver&SA | Agilent | N9038A | N9038A | 2018/8/30 | 2019/8/29 |
| Loop Antenna | R&S | HFH2-Z2 | HFH2-Z2 | 2018/5/30 | 2020/5/29 |
| Bilog Antenna | TeseQ | CBL6112D | CBL6112D | 2018/6/5 | 2019/6/4 |
| LF Amplifier | Burgeon | BPA-530 | BPA-530 | 2018/4/20 | 2019/4/19 |
| Software Information | | | | | |
| Test Item | Software Name | | Manufacturer | Version | |
| RE | E3 | | AUDIX | 6.2009-8-24(sporton) | |



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 μ V/m] | For 3 m Chamber: $U = 4.8 \text{ dB (30 MHz-1 GHz)}$ |
| AC Power Line Conducted Emissions | Disturbance Voltage[dB μ V] | $U=2.3 \text{ dB}$ |

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