



CERTIFICATION TEST REPORT

Report Number. : 4790101660-E1V2

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-X906B

FCC ID : A3LSMX906B

EUT Description : GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
NFC and WPT

Test Standard(s) : FCC 47 CFR PART 15 SUBPART B

Date Of Issue:

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ACCREDITED

Testing Laboratory

TL-637

Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-------------------|-----------------------------------|---------------------|
| V1 | 2021-12-01 | Initial issue | Steven(Sangyun) Kim |
| V2 | 2021-12-11 | Updated to address TCB's question | Steven(Sangyun) Kim |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and WPT
MODEL NUMBER: SM-X906B
SERIAL NUMBER: R32RB006W3E (RADIATED);
DATE TESTED: 2021-11-15 ~ 2021-11-30;

| APPLICABLE STANDARDS | |
|----------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC PART 15B | Pass |

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Steven(Sangyun) Kim
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. ANSI C63.4-2014

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 218 Maeyeong-ro | |
|-------------------------------------|-----------|
| <input checked="" type="checkbox"/> | Chamber 1 |
| <input type="checkbox"/> | Chamber 2 |
| <input type="checkbox"/> | Chamber 3 |

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| Conducted Disturbance, 0.15 to 30 MHz | 3.02 dB |
| Radiated Disturbance, 30 MHz to 1 GHz | 4.05 dB |
| Radiated Disturbance, 1 GHz to 18 GHz | 5.78 dB |
| Radiated Disturbance, Above 18 GHz | 5.58 dB |

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2007.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

GSM/WCDMA/LTE Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC and WPT.

GENERAL INFORMATION

| | |
|--|---|
| Type of device | Class B personal computers and peripherals Other Class B digital devices & peripherals |
| Personal Computer power requirements | 100-240 VAC / 50-60 Hz, 1.8 A |
| Travel Adapter power requirements | 100-240 VAC / 50-60 Hz, 0.7 A |
| The highest frequencies generated or used by the EUT | 7.115 GHz from WIFI 6E |
| Test Voltage | 120 Vac / 60 Hz |

5.2. TEST MODE

| Mode | Description |
|-------------|--|
| Test Case 1 | Camera(Front) + Charging |
| Test Case 2 | Video and Audio Play + Earphone |
| Test Case 3 | Video and Audio Play + Display Out |
| Test Case 4 | USB Data Communication with PC |
| Test Case 5 | USB Data Communication with PC + Keyboard |
| Test Case 6 | With Keyboard continuous input Key("H" Pattern) + charging |

Note: All descriptions were tested under simultaneous operation.
 Receiver Mode (Licensed Band within 30-960MHz) test result refer to FCC Report Receiver mode(CXX).

5.3. WORST-CASE ORIENTATION AND MODE

The EUT was investigated in three orthogonal orientations X, Y, Z it was determined that X orientation with data transfer was worst-case; therefore, Test case 1 to 4 radiated testing was performed with the EUT in X and the Test case 5 and 6 EUT with keyboard was stand up orientation with data transfer.

5.1. MODIFICATIONS

No modifications were made during testing.

5.2. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

| Support Equipment List | | | | |
|------------------------|--------------|-------------|------------------------------|------------|
| Description | Manufacturer | Model | Serial Number | FCC ID/DoC |
| Laptop PC | Lenovo | T480s | PC0VHHJR | DoC |
| AC/DC Adapter | Lenovo | ADLX65YDC3A | 8SSA10M13946D1SG862021R | N/A |
| Mouse | SAMSUNG | AA-MW1D5WB | CN57BA5904489BDV8JN9W1756 | N/A |
| Data Cable | SAMSUNG | EP-DW767JWE | GH39-02071A | N/A |
| Charger | SAMSUNG | EP-TA800 | R37R8YN0CD1RC3 | N/A |
| Earphone | SAMSUNG | - | GH59-15252A | N/A |
| Micro SD Card | SAMSUNG | MB-MC256GA | - | - |
| Monitor | DELL | U2417H | CN-0767T7-WS200-74M-C4SL-A03 | N/A |
| SPEN | SAMSUNG | - | 1386600000549 | N/A |
| Keyboard Cover | SAMSUNG | EF-DX900 | - | N/A |

I/O CABLES

[DIAGRAM 1]

| I/O Cable List | | | | | | |
|----------------|---------------|----------------------|-----------------|------------|-----------------|-------------------------------|
| Cable No | Port | # of identical ports | Connect or Type | Cable Type | Cable Length(m) | Remarks |
| 1 | AC Power | 1 | Power | - | Direct | From AC/DC Adapter to AC Main |
| 2 | Type C | 1 | Power | Unshielded | 0.7m | From AD/DC Adapter to EUT |
| 3 | Micro SD Slot | 1 | - | - | Direct | Fitted In EUT |

[DIAGRAM 2]

| I/O Cable List | | | | | | |
|----------------|---------------|----------------------|-----------------|------------|-----------------|----------------------|
| Cable No | Port | # of identical ports | Connect or Type | Cable Type | Cable Length(m) | Remarks |
| 1 | Earphone | 1 | Type C | Shielded | 0.7m | From Earphone to EUT |
| 2 | Micro SD Slot | 1 | - | - | Direct | Fitted In EUT |

* Radiated Test Only

[DIAGRAM 3]

| I/O Cable List | | | | | | |
|----------------|---------------|----------------------|-----------------|------------|-----------------|-------------------------|
| Cable No | Port | # of identical ports | Connect or Type | Cable Type | Cable Length(m) | Remarks |
| 1 | Type C | 1 | DP | Shielded | 1.5m | From LCD Monitor to EUT |
| 2 | Micro SD Slot | 1 | - | - | Direct | Fitted In EUT |

* Radiated Test Only

[DIAGRAM 4]

| I/O Cable List | | | | | | |
|----------------|---------------|----------------------|-----------------|------------|-----------------|---|
| Cable No | Port | # of identical ports | Connect or Type | Cable Type | Cable Length(m) | Remarks |
| 1 | AC Power | 1 | Power | Unshielded | 1.5m | From AD/DC Adapter to AC Main |
| 2 | DC Power | 1 | Type C | Shielded | 0.7m | From Laptop to AC/DC Adapter |
| 3 | USB | 1 | USB | Shielded | 1.5m | From Laptop to EUT |
| 4 | AC Power | 1 | Type C | Unshielded | 1.0m | From Mouse to Laptop |
| 5 | Micro SD Slot | 1 | - | - | Direct | Fitted In EUT |
| 6 | Ethernet | 1 | RJ45 | Unshielded | 1.5m | From Laptop to Router in out of test site |

[DIAGRAM 5]

| I/O Cable List | | | | | | |
|----------------|---------------|----------------------|-----------------|------------|-----------------|---|
| Cable No | Port | # of identical ports | Connect or Type | Cable Type | Cable Length(m) | Remarks |
| 1 | AC Power | 1 | Power | Unshielded | 1.5m | From AD/DC Adapter to AC Main |
| 2 | DC Power | 1 | Type C | Shielded | 0.7m | From Laptop to AC/DC Adapter |
| 3 | USB | 1 | USB | Shielded | 1.5m | From Laptop to EUT |
| 4 | AC Power | 1 | Type C | Unshielded | 1.0m | From Mouse to Laptop |
| 5 | Micro SD Slot | 1 | - | - | Direct | Fitted In EUT |
| 6 | Ethernet | 1 | RJ45 | Unshielded | 1.5m | From Laptop to Router in out of test site |
| 7 | Keyboard | 1 | 3pin | - | Direct | Fitted In EUT |

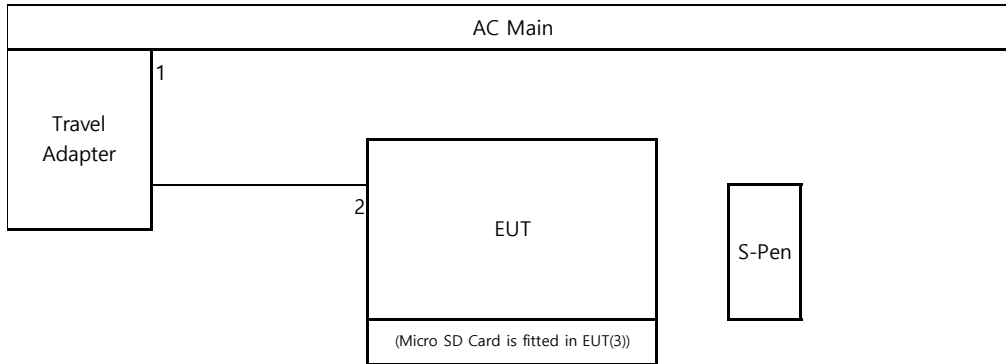
[DIAGRAM 6]

| I/O Cable List | | | | | | |
|----------------|---------------|----------------------|-----------------|------------|-----------------|-------------------------------|
| Cable No | Port | # of identical ports | Connect or Type | Cable Type | Cable Length(m) | Remarks |
| 1 | AC Power | 1 | Power | Unshielded | 1.5m | From AD/DC Adapter to AC Main |
| 2 | USB | 1 | USB | Shielded | 1.5m | From Laptop to EUT |
| 3 | Micro SD Slot | 1 | - | - | Direct | Fitted In EUT |
| 4 | Keyboard | 1 | 3pin | - | Direct | Fitted In EUT |

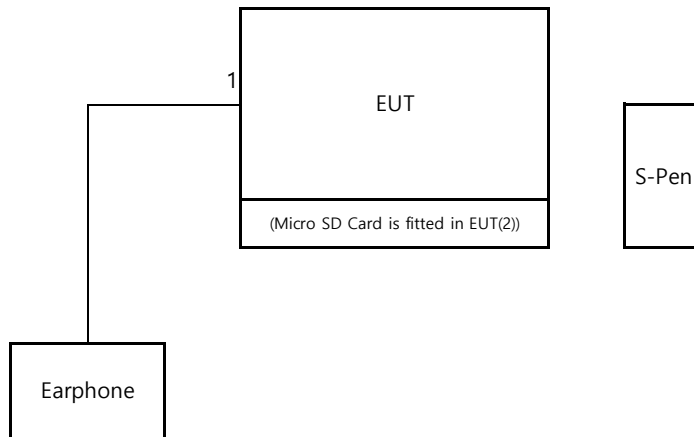
TEST SETUP

The EUT is installed in a typical configuration. Copy files from PC to EUT fitted Micro sd card.
Video and sound on EUT send to the LCD Monitor from DP cable.

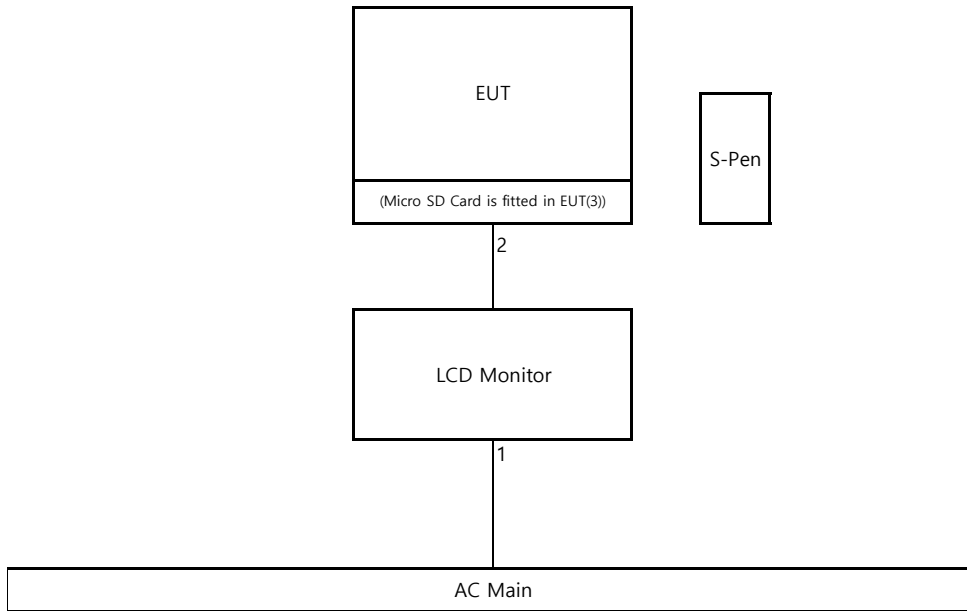
TEST SETUP DIAGRAM 1 for Test Case 1



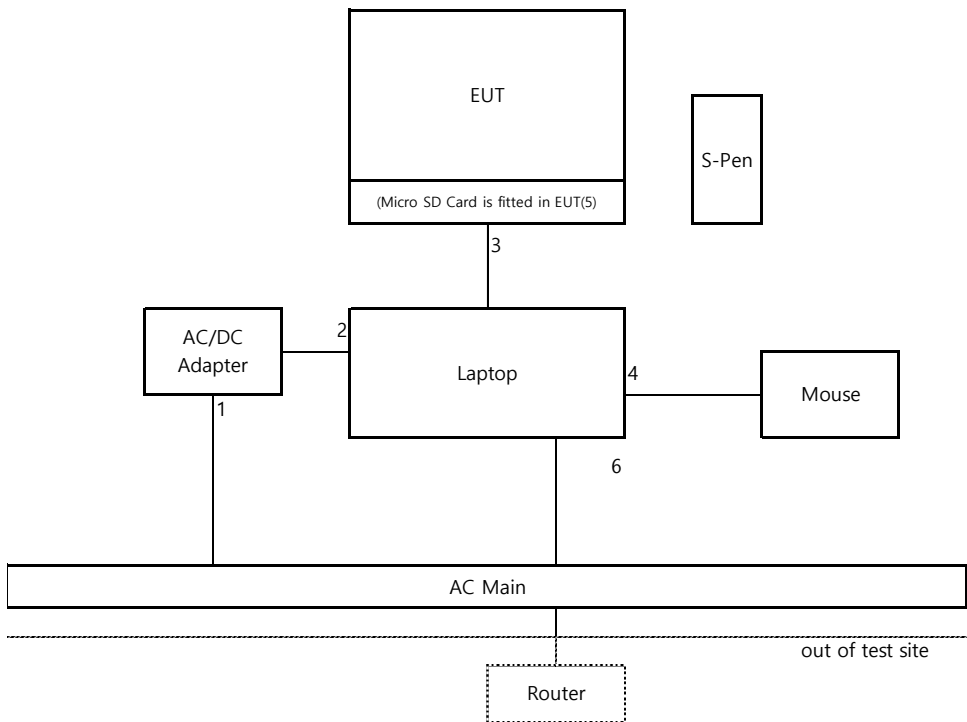
TEST SETUP DIAGRAM 2 for Test Case 2



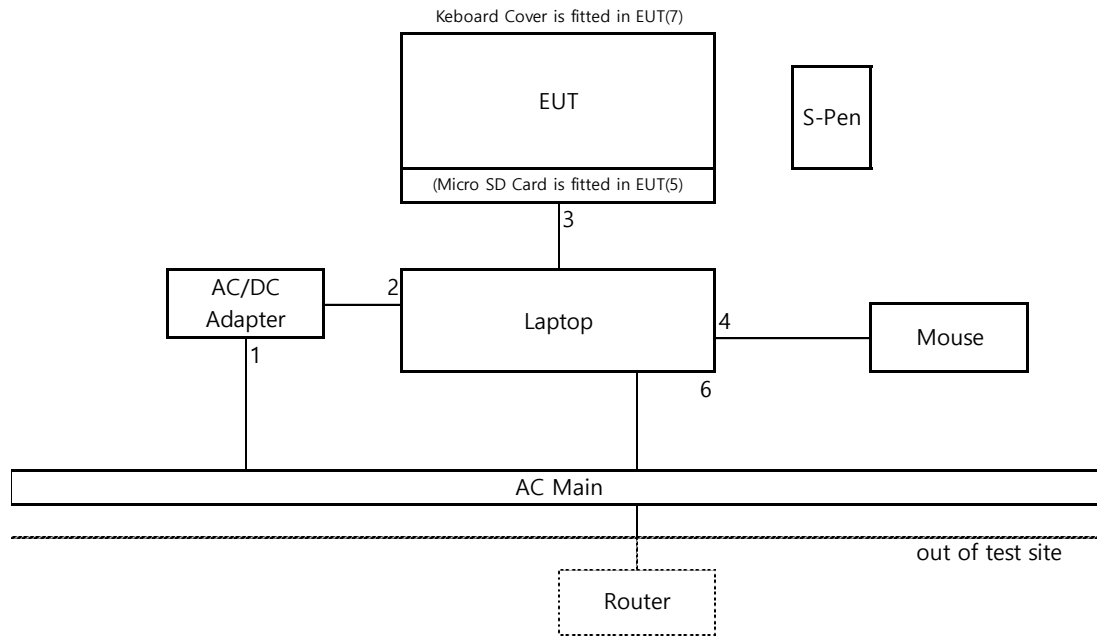
TEST SETUP DIAGRAM 3 for Test case 3



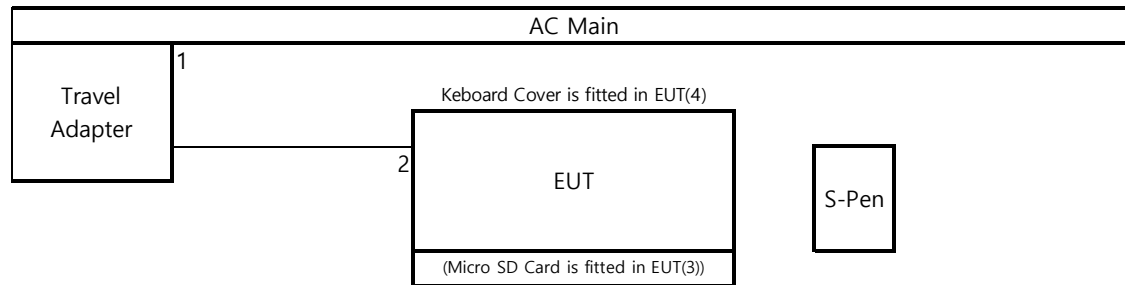
TEST SETUP DIAGRAM 4 for Test case 4



TEST SETUP DIAGRAM 5 for Test case 5



TEST SETUP DIAGRAM 6 for Test case 6



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List | | | | |
|----------------------------|--------------|------------------------|----------|------------|
| Description | Manufacturer | Model | S/N | Cal Due |
| Antenna, Horn, 40 GHz | ETS | 3116C | 00166155 | 2022-08-04 |
| Antenna, Horn, 40 GHz | ETS | 3116C | 00168645 | 2022-08-04 |
| Preamplifier | ETS | 3116C-PA | 00168841 | 2022-08-04 |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK | VULB9163 | 750 | 2022-08-19 |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK | VULB9163 | 845 | 2022-08-13 |
| Antenna, Bilog, 30MHz-1GHz | SCHWARZBECK | VULB9163 | 749 | 2022-08-13 |
| Antenna, Horn, 18 GHz | ETS | 3115 | 00167211 | 2022-07-27 |
| Antenna, Horn, 18 GHz | ETS | 3115 | 00161451 | 2022-08-15 |
| Antenna, Horn, 18 GHz | ETS | 3117 | 00168724 | 2022-07-27 |
| Antenna, Horn, 18 GHz | ETS | 3117 | 00168717 | 2022-08-15 |
| Preamplifier, 1000 MHz | Sonoma | 310N | 341282 | 2022-08-02 |
| Preamplifier, 1000 MHz | Sonoma | 310N | 370599 | 2022-08-02 |
| Preamplifier, 1000 MHz | Sonoma | 310N | 351741 | 2022-08-02 |
| Preamplifier, 18 GHz | Miteq | AFS42-00101800-25-S-42 | 1876511 | 2022-08-02 |
| Preamplifier, 18 GHz | Miteq | AFS42-00101800-25-S-42 | 2029168 | 2022-08-02 |
| Preamplifier, 18 GHz | Miteq | AFS42-00101800-25-S-42 | 1896138 | 2022-08-02 |
| EMI Test Receive, 40 GHz | R&S | ESU40 | 100439 | 2022-08-02 |
| EMI Test Receive, 40 GHz | R&S | ESU40 | 100457 | 2022-08-02 |
| EMI Test Receive, 3 GHz | R&S | ESR3 | 101832 | 2022-08-02 |
| LISN | R&S | ENV-216 | 101836 | 2022-08-05 |
| LISN | R&S | ENV-216 | 101837 | 2022-08-05 |
| UL Software | | | | |
| Description | Manufacturer | Model | Version | |
| Radiated software | UL | UL EMC | Ver 9.5 | |
| AC Line Conducted software | UL | UL EMC | Ver 9.5 | |

7. TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

The highest clock frequency generated or used in the EUT is 40 GHz therefore the frequency range was investigated from 30 MHz to 40 GHz.

LIMIT

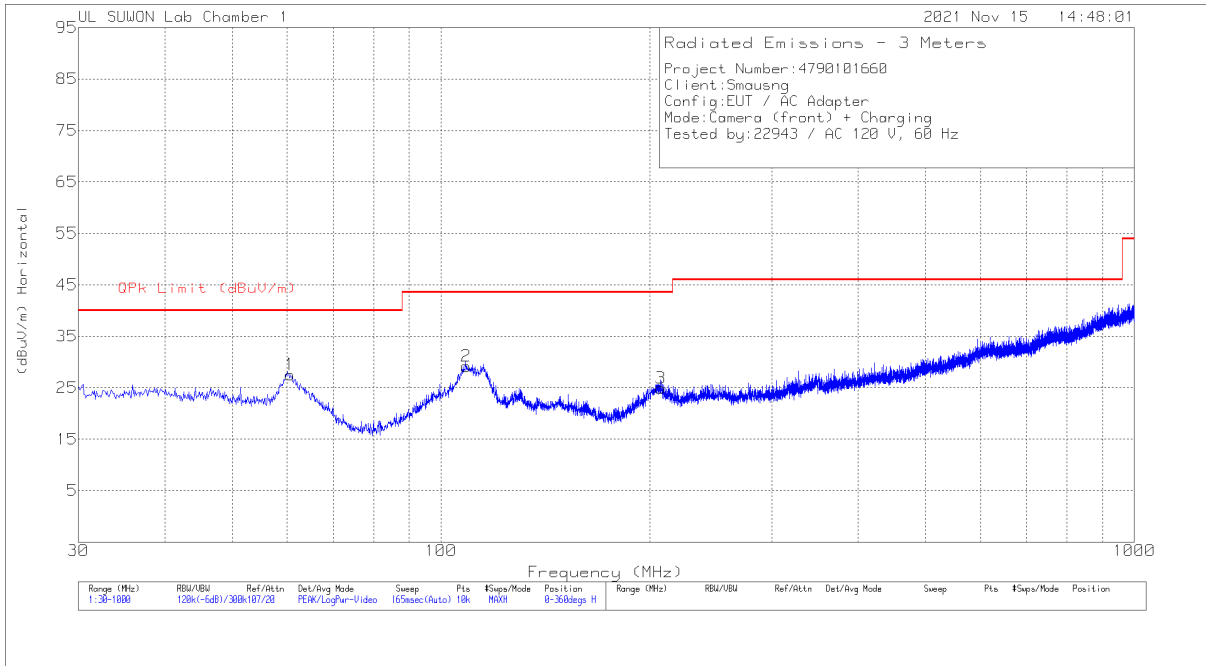
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Limits for radiated disturbance of Class B ITE at measuring distance of 3 m | |
|---|----------------------------------|
| Frequency range (MHz) | Quasi-peak limits (dB μ V/m) |
| 30 to 88 | 40 |
| 88 to 216 | 43.5 |
| 216 to 960 | 46 |
| Above 960 MHz | 54 |

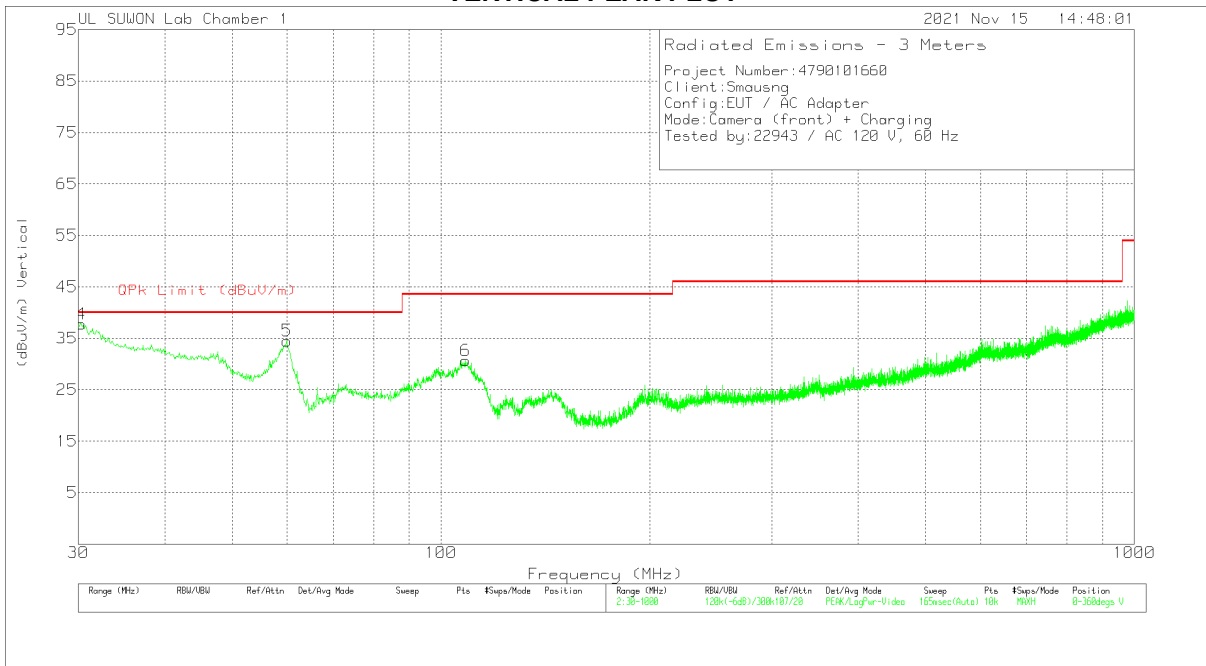
Note: The lower limit shall apply at the transition frequency.

7.1.1. RADIATED EMISSIONS 30 TO 1000 MHz [Test case 1]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.652 | 39.93 | Pk | 18.4 | -30.8 | 27.53 | 40 | -12.47 | 0-360 | 300 | H |
| 2 | 108.861 | 41.97 | Pk | 17.4 | -30.2 | 29.17 | 43.52 | -14.35 | 0-360 | 200 | H |
| 3 | 207.607 | 37.21 | Pk | 16.9 | -29.2 | 24.91 | 43.52 | -18.61 | 0-360 | 100 | H |
| 4 | 30.291 | 53.15 | Pk | 16 | -31.4 | 37.75 | 40 | -2.25 | 0-360 | 200 | V |
| 5 | 59.973 | 46.8 | Pk | 18.5 | -30.8 | 34.5 | 40 | -5.5 | 0-360 | 200 | V |
| 6 | 108.57 | 43.25 | Pk | 17.5 | -30.1 | 30.65 | 43.52 | -12.87 | 0-360 | 200 | V |

Pk - Peak detector

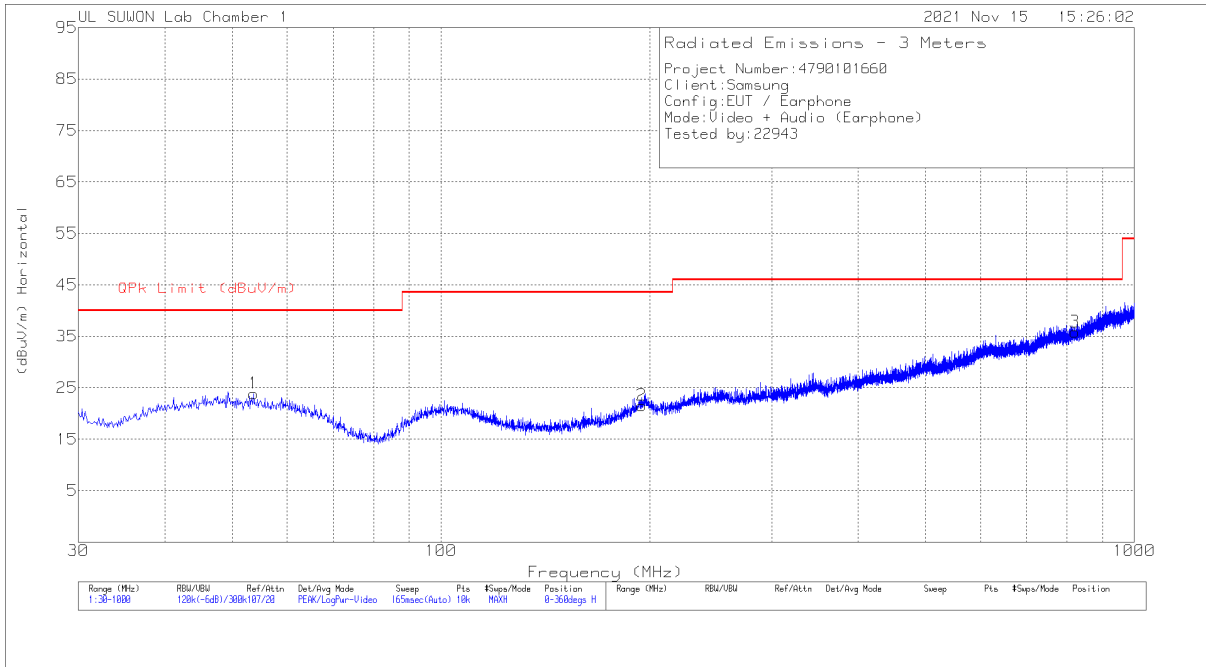
Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 30.291 | 50.7 | Qp | 16 | -31.4 | 35.3 | 40 | -4.7 | 352 | 101 | V |

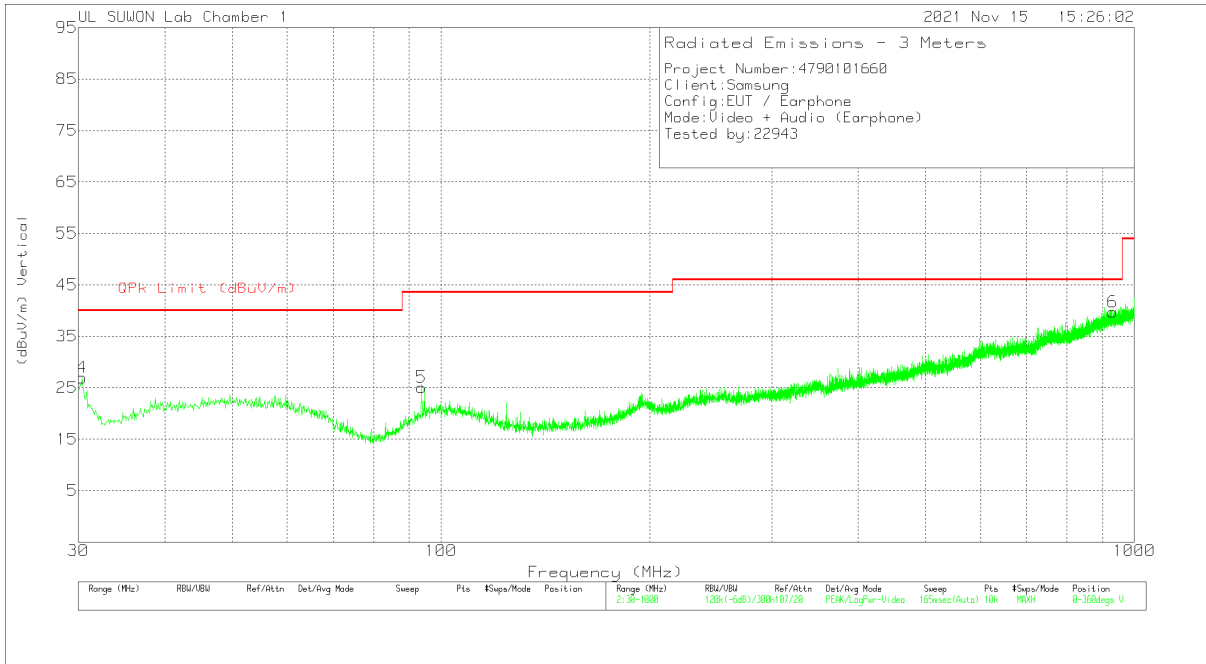
Qp - Quasi-Peak detector

[Test case 2]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 53.668 | 34.99 | Pk | 19.5 | -30.6 | 23.89 | 40 | -16.11 | 0-360 | 100 | H |
| 2 | 194.803 | 32.96 | Pk | 18 | -29.4 | 21.56 | 43.52 | -21.96 | 0-360 | 300 | H |
| 3 | 821.52 | 34.84 | Pk | 27 | -26 | 35.84 | 46.02 | -10.18 | 0-360 | 100 | H |
| 4 | 30.388 | 42.17 | Pk | 16 | -31.2 | 26.97 | 40 | -13.03 | 0-360 | 200 | V |
| 5 | 93.826 | 38.37 | Pk | 17 | -30.3 | 25.07 | 43.52 | -18.45 | 0-360 | 200 | V |
| 6 | 930.548 | 36.31 | Pk | 28.3 | -24.9 | 39.71 | 46.02 | -6.31 | 0-360 | 300 | V |

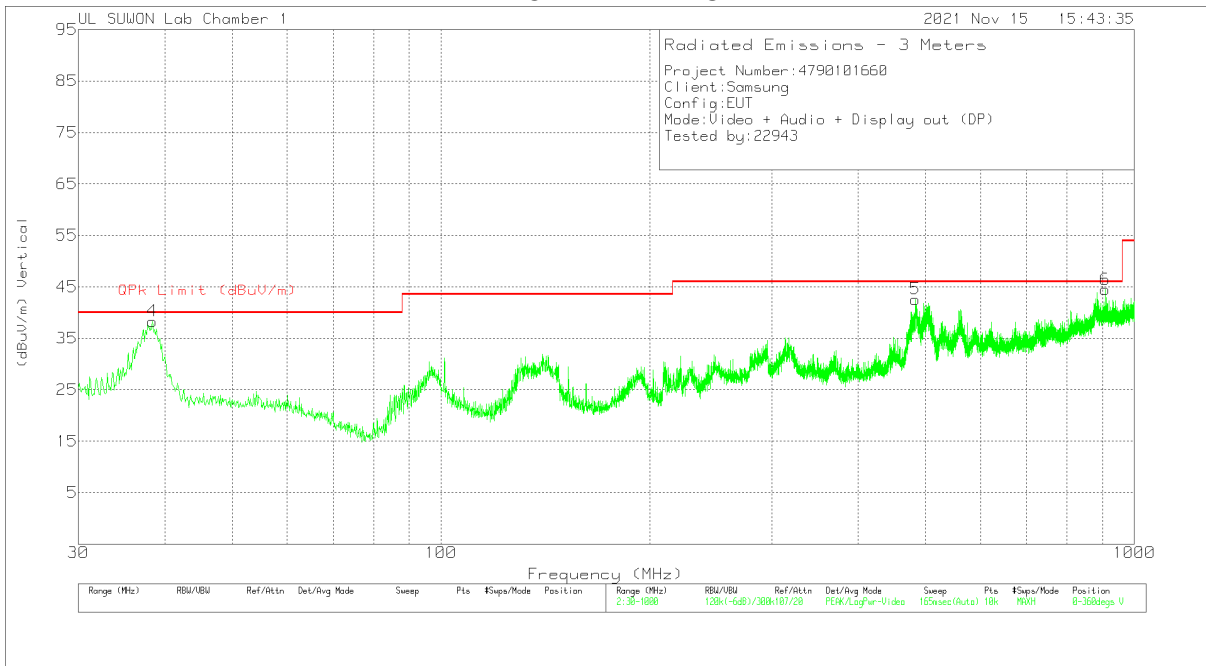
Pk - Peak detector

[Test case 3]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 152.705 | 46.55 | Pk | 14.1 | -29.7 | 30.95 | 43.52 | -12.57 | 0-360 | 100 | H |
| 2 | 289.669 | 45.57 | Pk | 19.2 | -28.6 | 36.17 | 46.02 | -9.85 | 0-360 | 100 | H |
| 3 | 906.88 | 38.11 | Pk | 28.3 | -25.1 | 41.31 | 46.02 | -4.71 | 0-360 | 100 | H |
| 4 | 38.342 | 51.42 | Pk | 18 | -31.1 | 38.32 | 40 | -1.68 | 0-360 | 200 | V |
| 5 | 483.572 | 47.4 | Pk | 22.8 | -27.6 | 42.6 | 46.02 | -3.42 | 0-360 | 200 | V |
| 6 | 907.85 | 41.29 | Pk | 28.3 | -25.1 | 44.49 | 46.02 | -1.53 | 0-360 | 200 | V |

Pk - Peak detector

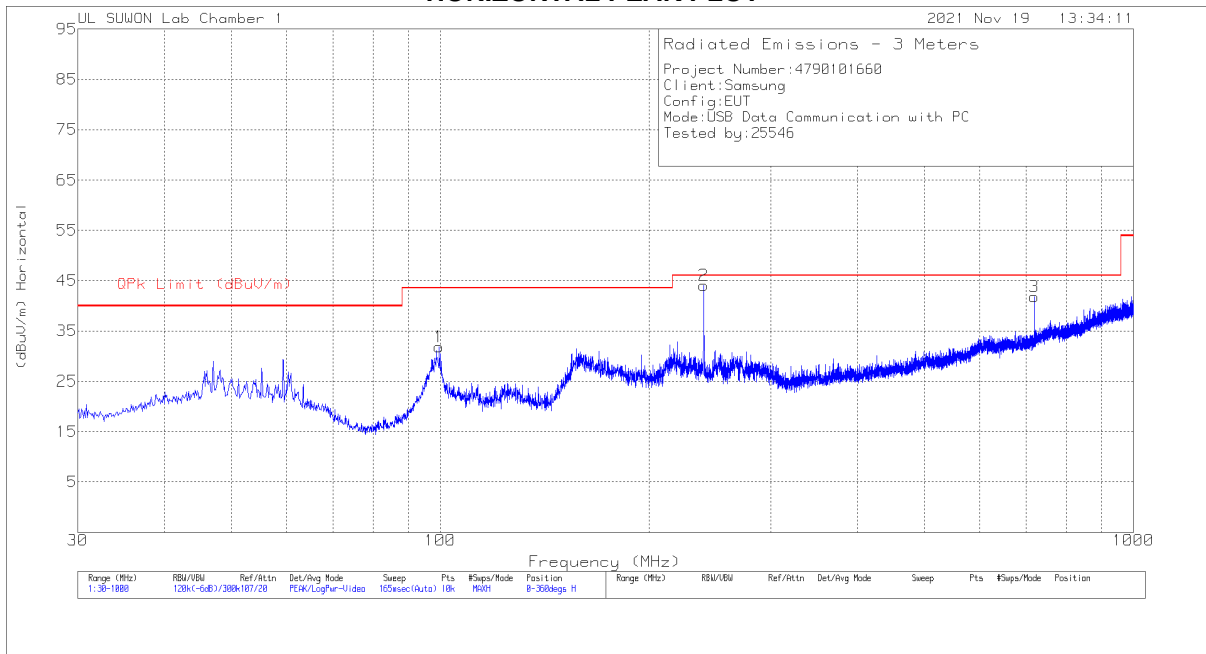
Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 906.88 | 34.22 | Qp | 28.3 | -25.1 | 37.42 | 46.02 | -8.6 | 137 | 100 | H |
| 38.342 | 49.97 | Qp | 18 | -31.1 | 36.87 | 40 | -3.13 | 277 | 102 | V |
| 483.572 | 44.04 | Qp | 22.8 | -27.6 | 39.24 | 46.02 | -6.78 | 239 | 101 | V |
| 907.85 | 30.76 | Qp | 28.3 | -25.1 | 33.96 | 46.02 | -12.06 | 236 | 157 | V |

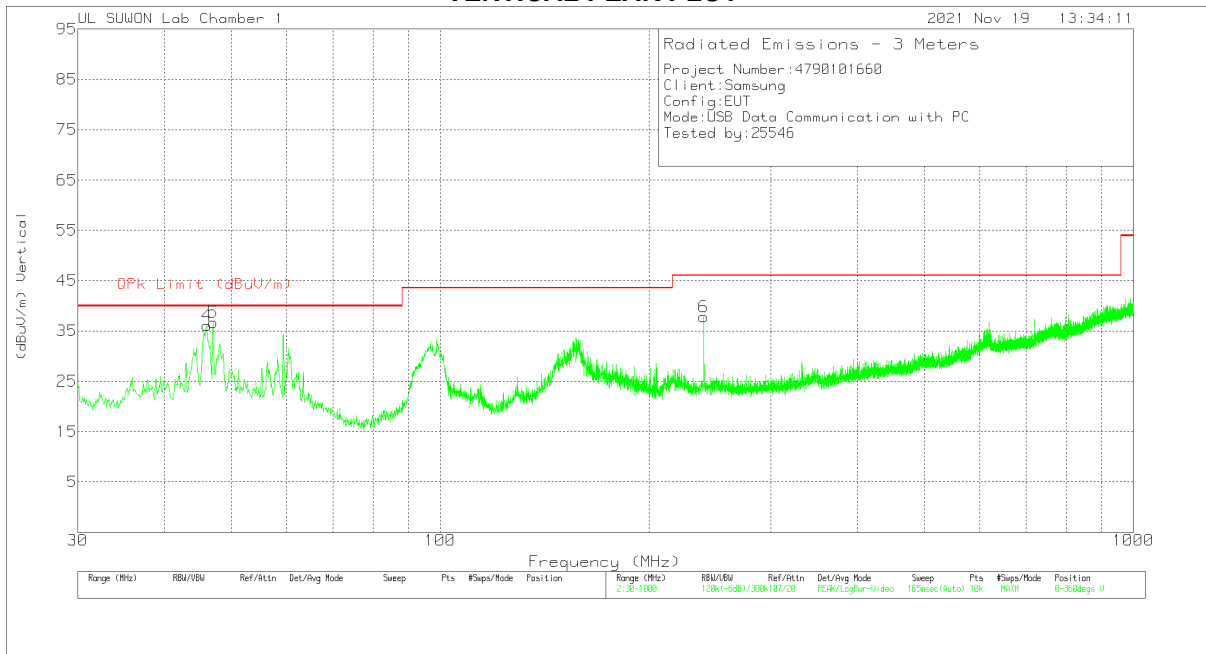
Qp - Quasi-Peak detector

[Test case 4]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 99.646 | 44.39 | Pk | 17.8 | -30.3 | 31.89 | 43.52 | -11.63 | 0-360 | 100 | H |
| 2 | 240.005 | 54.34 | Pk | 18.6 | -28.9 | 44.04 | 46.02 | -1.98 | 0-360 | 100 | H |
| 3 | 720.058 | 42.41 | Pk | 26 | -26.6 | 41.81 | 46.02 | -4.21 | 0-360 | 100 | H |
| 4 | 46.102 | 47.46 | Pk | 19.7 | -31.1 | 36.06 | 40 | -3.94 | 0-360 | 200 | V |
| 5 | 47.072 | 47.87 | Pk | 19.8 | -31 | 36.67 | 40 | -3.33 | 0-360 | 200 | V |
| 6 | 240.005 | 48.14 | Pk | 18.6 | -28.9 | 37.84 | 46.02 | -8.18 | 0-360 | 200 | V |

Pk - Peak detector

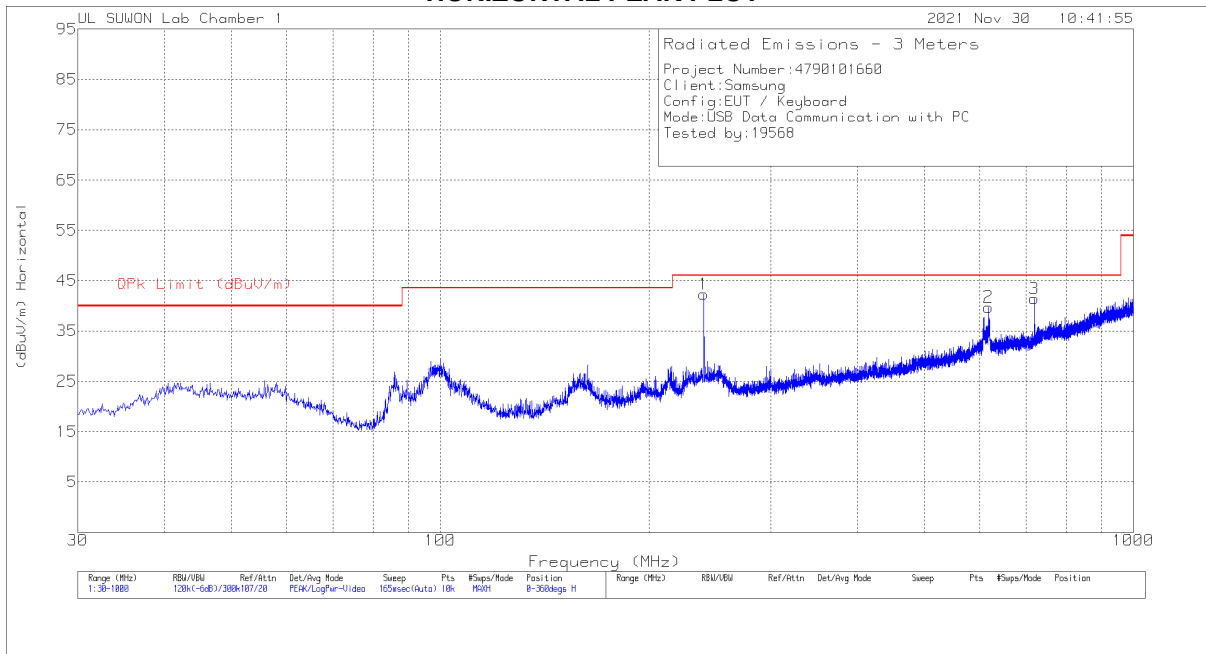
Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 240.005 | 51.12 | Qp | 18.6 | -28.9 | 40.82 | 46.02 | -5.2 | 128 | 127 | H |
| 720.058 | 39.36 | Qp | 26 | -26.6 | 38.76 | 46.02 | -7.26 | 314 | 131 | H |
| 46.102 | 45.64 | Qp | 19.7 | -31.1 | 34.24 | 40 | -5.76 | 209 | 100 | V |
| 47.072 | 47.33 | Qp | 19.8 | -31 | 36.13 | 40 | -3.87 | 162 | 100 | V |

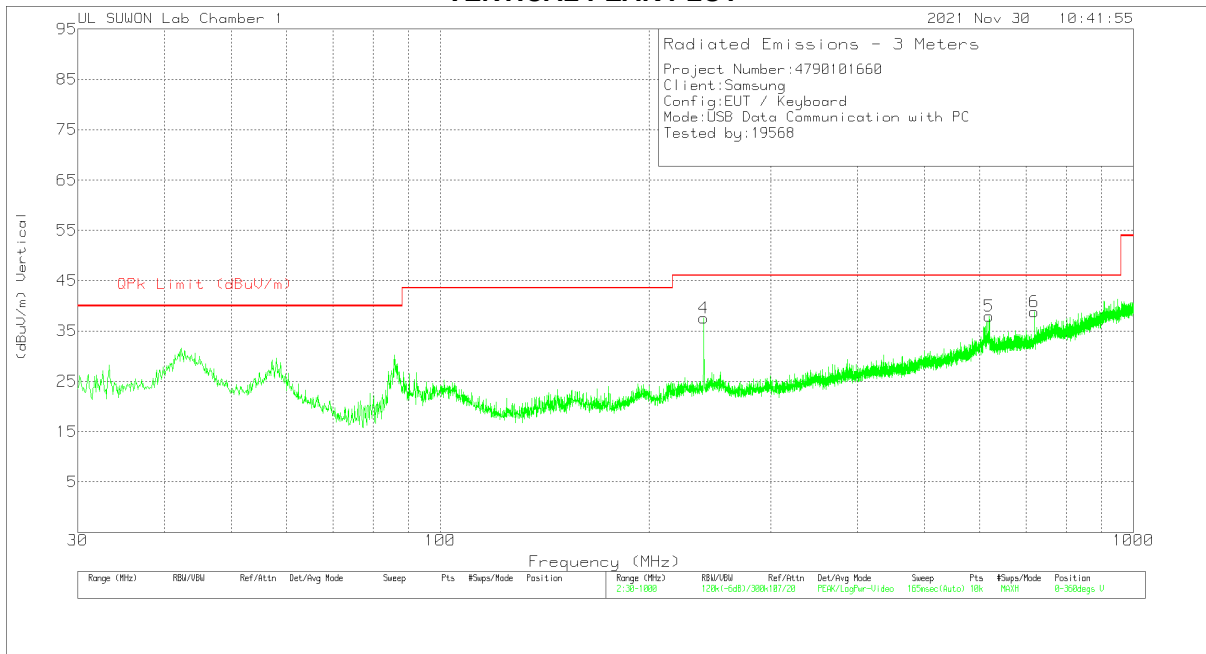
Qp - Quasi-Peak detector

[Test case 5]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 240.005 | 52.64 | Pk | 18.6 | -28.9 | 42.34 | 46.02 | -3.68 | 0-360 | 100 | H |
| 2 | 618.499 | 41.36 | Pk | 25.5 | -27.1 | 39.76 | 46.02 | -6.26 | 0-360 | 100 | H |
| 3 | 720.058 | 42.04 | Pk | 26 | -26.6 | 41.44 | 46.02 | -4.58 | 0-360 | 100 | H |
| 4 | 240.005 | 47.89 | Pk | 18.6 | -28.9 | 37.59 | 46.02 | -8.43 | 0-360 | 100 | V |
| 5 | 619.275 | 39.61 | Pk | 25.5 | -27.1 | 38.01 | 46.02 | -8.01 | 0-360 | 100 | V |
| 6 | 720.058 | 39.47 | Pk | 26 | -26.6 | 38.87 | 46.02 | -7.15 | 0-360 | 100 | V |

Pk - Peak detector

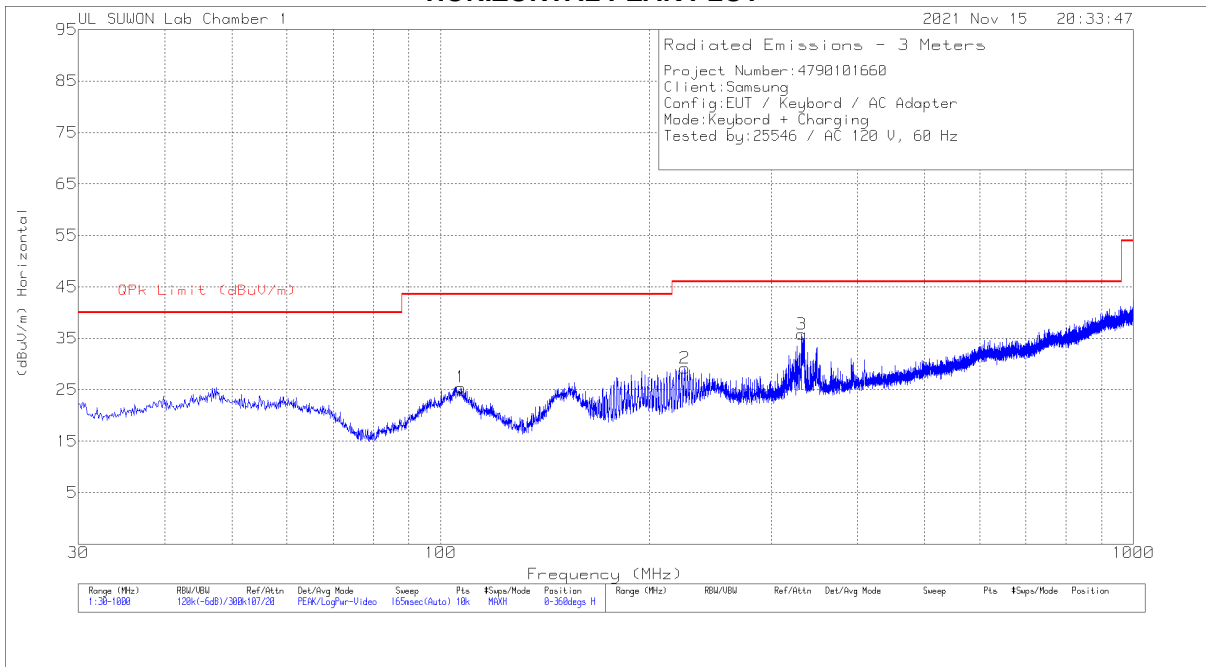
Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 240.005 | 52.76 | Qp | 18.6 | -28.9 | 42.46 | 46.02 | -3.56 | 1 | 129 | H |
| 240.005 | 48.31 | Qp | 18.6 | -28.9 | 38.01 | 46.02 | -8.01 | 203 | 101 | V |
| 720.058 | 39.81 | Qp | 26 | -26.6 | 39.21 | 46.02 | -6.81 | 244 | 103 | H |

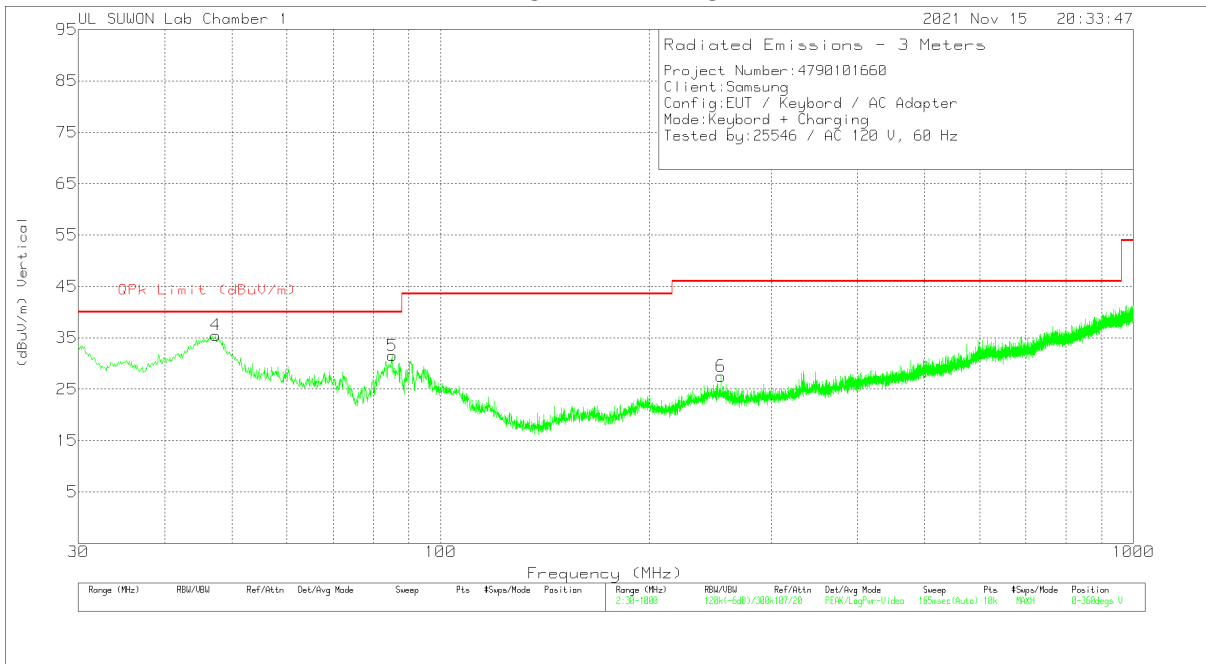
Qp - Quasi-Peak detector

[Test case 6]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 107.018 | 37.97 | Pk | 17.6 | -30.1 | 25.47 | 43.52 | -18.05 | 0-360 | 200 | H |
| 2 | 225.261 | 40.4 | Pk | 17.9 | -29.1 | 29.2 | 46.02 | -16.82 | 0-360 | 100 | H |
| 3 | 332.155 | 44.01 | Pk | 20.2 | -28.4 | 35.81 | 46.02 | -10.21 | 0-360 | 100 | H |
| 4 | 47.363 | 46.5 | Pk | 19.8 | -30.8 | 35.5 | 40 | -4.5 | 0-360 | 100 | V |
| 5 | 85.193 | 48.11 | Pk | 13.8 | -30.4 | 31.51 | 40 | -8.49 | 0-360 | 100 | V |
| 6 | 253.876 | 37.21 | Pk | 19.2 | -28.9 | 27.51 | 46.02 | -18.51 | 0-360 | 100 | V |

Pk - Peak detector

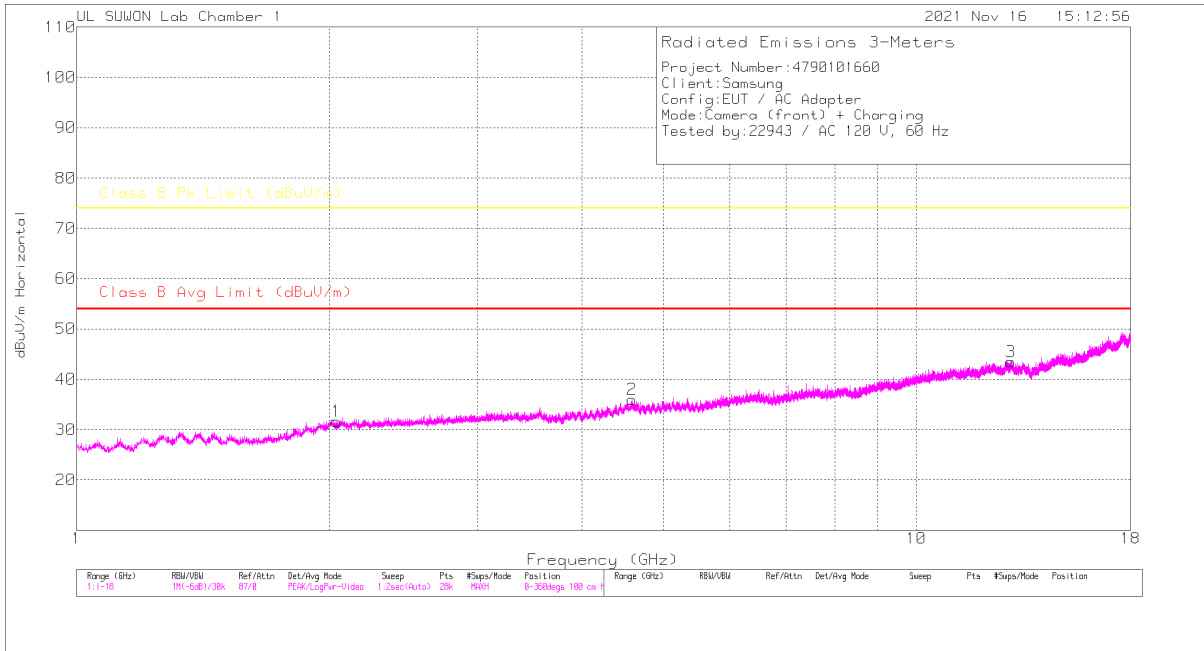
Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 47.123 | 43.05 | Qp | 19.8 | -31 | 31.85 | 40 | -8.15 | 61 | 100 | V |

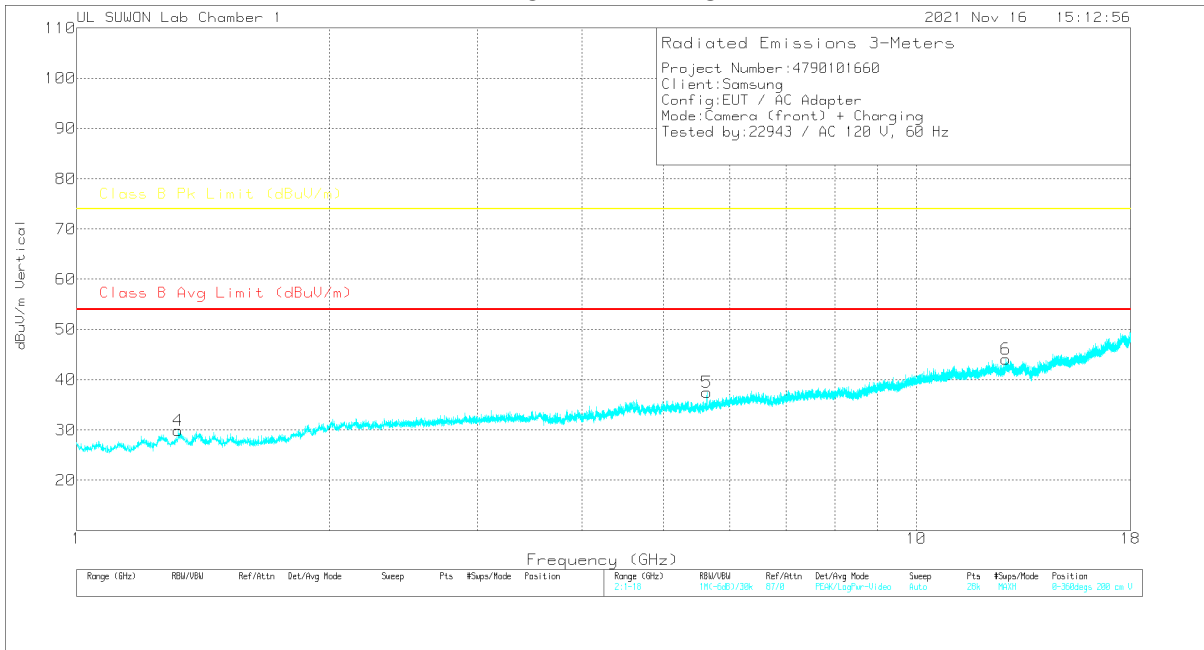
Qp - Quasi-Peak detector

7.1.2. RADIATED EMISSIONS 1 GHz to 18 GHz [Test case 1]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1 | 2.0375 | 35.71 | PK | 31.5 | -35.6 | 31.61 | - | - | 74 | -42.39 | 0-360 | 100 | H |
| 2 | 4.58662 | 33.74 | PK | 34.2 | -31.9 | 36.04 | - | - | 74 | -37.96 | 0-360 | 100 | H |
| 3 | 12.95822 | 27.47 | PK | 39 | -23 | 43.47 | - | - | 74 | -30.53 | 0-360 | 100 | H |
| 4 | 1.32054 | 37.54 | PK | 29.5 | -37.2 | 29.84 | - | - | 74 | -44.16 | 0-360 | 200 | V |
| 5 | 5.63201 | 33.69 | PK | 34.7 | -30.9 | 37.49 | - | - | 74 | -36.51 | 0-360 | 200 | V |
| 6 | 12.78581 | 27.74 | PK | 39 | -22.6 | 44.14 | - | - | 74 | -29.86 | 0-360 | 200 | V |

PK – Peak Detector

Radiated Emissions

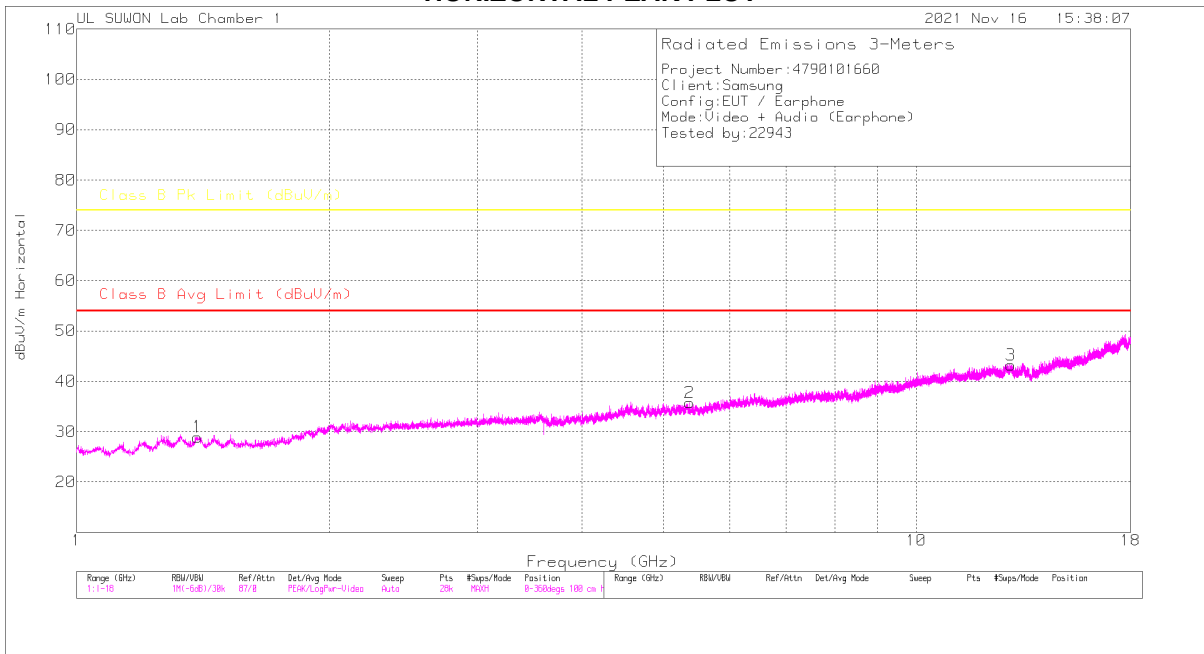
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 2.0375 | 42.8 | Pk | 31.5 | -35.6 | 38.7 | - | - | 74 | -35.3 | 360 | 100 | H |
| 2.0375 | 30.03 | Ca | 31.5 | -35.6 | 25.93 | 54 | -28.07 | - | - | 360 | 100 | H |
| 1.32054 | 41.69 | Pk | 31.5 | -35.6 | 37.59 | - | - | 74 | -36.41 | 360 | 100 | V |
| 1.32054 | 30.05 | Ca | 31.5 | -35.6 | 25.95 | 54 | -28.05 | - | - | 360 | 100 | V |
| 4.58662 | 40.28 | Pk | 34.2 | -31.9 | 42.58 | - | - | 74 | -31.42 | 360 | 100 | H |
| 4.58662 | 27.78 | Ca | 34.2 | -31.9 | 30.08 | 54 | -23.92 | - | - | 360 | 100 | H |
| 5.63201 | 39.69 | Pk | 34.2 | -31.9 | 41.99 | - | - | 74 | -32.01 | 241 | 102 | V |
| 5.63201 | 27.8 | Ca | 34.2 | -31.9 | 30.1 | 54 | -23.9 | - | - | 241 | 102 | V |
| 12.95822 | 34.19 | Pk | 39 | -23 | 50.19 | - | - | 74 | -23.81 | 360 | 100 | H |
| 12.95822 | 22.35 | Ca | 39 | -23 | 38.35 | 54 | -15.65 | - | - | 360 | 100 | H |
| 12.95822 | 33.9 | Pk | 39 | -23 | 49.9 | - | - | 74 | -24.1 | 360 | 100 | V |
| 12.95822 | 22.36 | Ca | 39 | -23 | 38.36 | 54 | -15.64 | - | - | 360 | 100 | V |

Pk - Peak detector

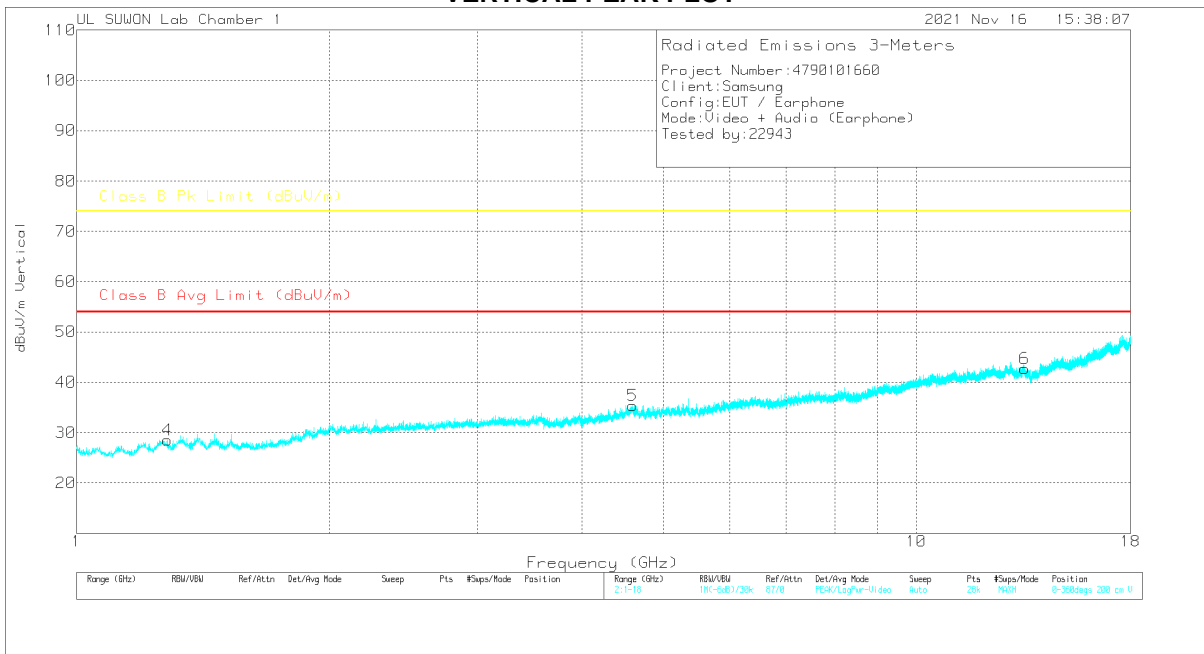
Ca - CISPR average detection

[Test case 2]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1 | 1.39339 | 36.56 | PK | 29.4 | -37 | 28.96 | - | - | 74 | -45.04 | 0-360 | 100 | H |
| 2 | 5.37521 | 32.31 | PK | 34.5 | -31.1 | 35.71 | - | - | 74 | -38.29 | 0-360 | 100 | H |
| 3 | 12.9649 | 27.23 | PK | 39 | -23 | 43.23 | - | - | 74 | -30.77 | 0-360 | 100 | H |
| 4 | 1.28168 | 36.58 | PK | 29.3 | -37.3 | 28.58 | - | - | 74 | -45.42 | 0-360 | 200 | V |
| 5 | 4.59815 | 33.05 | PK | 34.2 | -31.9 | 35.35 | - | - | 74 | -38.65 | 0-360 | 200 | V |
| 6 | 13.4712 | 27.21 | PK | 38.5 | -23 | 42.71 | - | - | 74 | -31.29 | 0-360 | 200 | V |

PK – Peak Detector

Radiated Emissions

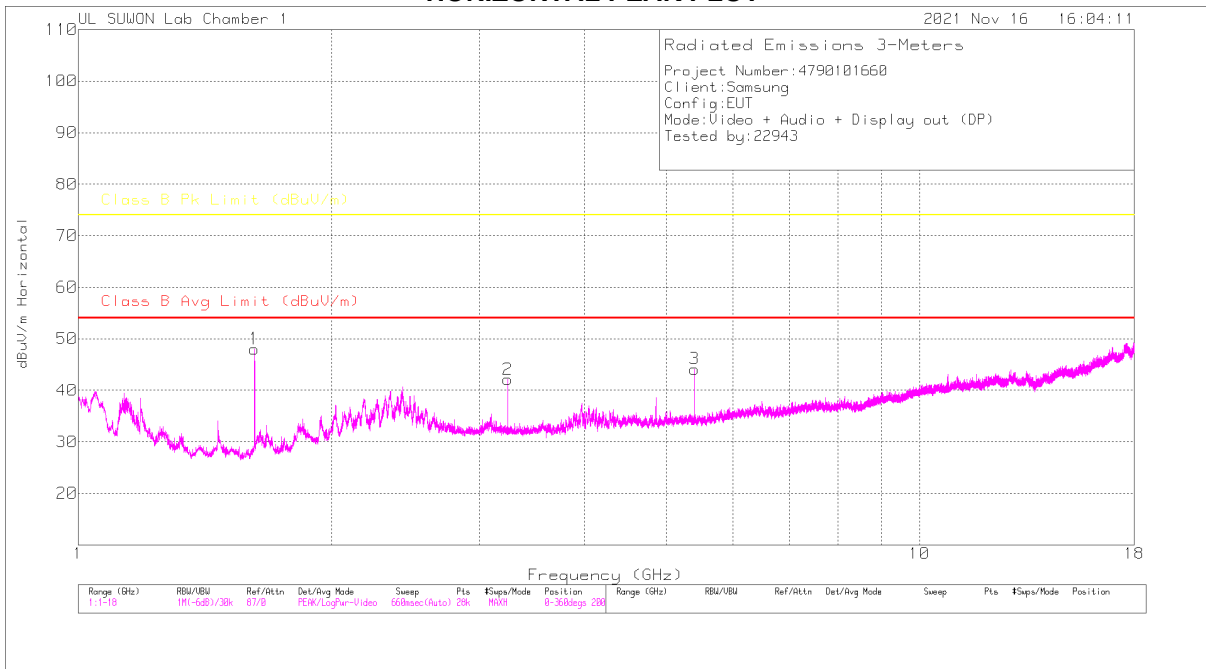
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.39339 | 44.11 | Pk | 29.4 | -37 | 36.51 | - | - | 74 | -37.49 | 360 | 100 | H |
| 1.39339 | 31.91 | Ca | 29.4 | -37 | 24.31 | 54 | -29.69 | - | - | 360 | 100 | H |
| 1.28168 | 43.34 | Pk | 29.3 | -37.3 | 35.34 | - | - | 74 | -38.66 | 360 | 100 | V |
| 1.28168 | 31.26 | Ca | 29.3 | -37.3 | 23.26 | 54 | -30.74 | - | - | 360 | 100 | V |
| 5.37521 | 39.52 | Pk | 34.5 | -31.1 | 42.92 | - | - | 74 | -31.08 | 360 | 100 | H |
| 5.37521 | 26.94 | Ca | 34.5 | -31.1 | 30.34 | 54 | -23.66 | - | - | 360 | 100 | H |
| 4.59815 | 39.15 | Pk | 34.2 | -31.9 | 41.45 | - | - | 74 | -32.55 | 360 | 100 | V |
| 4.59815 | 27.39 | Ca | 34.2 | -31.9 | 29.69 | 54 | -24.31 | - | - | 360 | 100 | V |
| 12.9649 | 34.39 | Pk | 39 | -23 | 50.39 | - | - | 74 | -23.61 | 360 | 100 | H |
| 12.9649 | 22.84 | Ca | 39 | -23 | 38.84 | 54 | -15.16 | - | - | 360 | 100 | H |
| 13.4712 | 35.13 | Pk | 38.5 | -23 | 50.63 | - | - | 74 | -23.37 | 360 | 100 | V |
| 13.4712 | 23.15 | Ca | 38.5 | -23 | 38.65 | 54 | -15.35 | - | - | 360 | 100 | V |

Pk - Peak detector

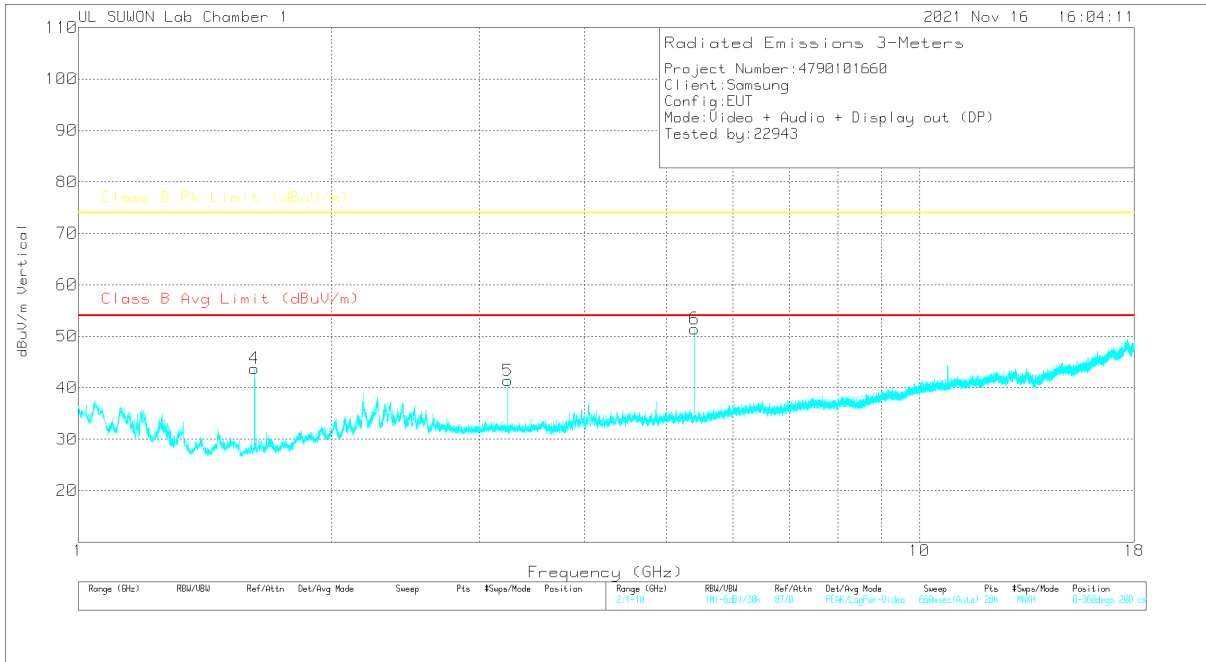
Ca - CISPR average detection

[Test case 3]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz(dB) | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1 | 1.61983 | 56.13 | PK | 28.4 | -36.5 | 48.03 | - | - | 74 | -25.97 | 0-360 | 200 | H |
| 2 | 3.23951 | 43.22 | PK | 32.7 | -33.8 | 42.12 | - | - | 74 | -31.88 | 0-360 | 200 | H |
| 3 | 5.40071 | 40.74 | PK | 34.5 | -31.1 | 44.14 | - | - | 74 | -29.86 | 0-360 | 100 | H |
| 4 | 1.61983 | 51.83 | PK | 28.4 | -36.5 | 43.73 | - | - | 74 | -30.27 | 0-360 | 200 | V |
| 5 | 3.24012 | 42.5 | PK | 32.7 | -33.8 | 41.4 | - | - | 74 | -32.6 | 0-360 | 200 | V |
| 6 | 5.40071 | 48.04 | PK | 34.5 | -31.1 | 51.44 | - | - | 74 | -22.56 | 0-360 | 200 | V |

PK – Peak Detector

Radiated Emissions

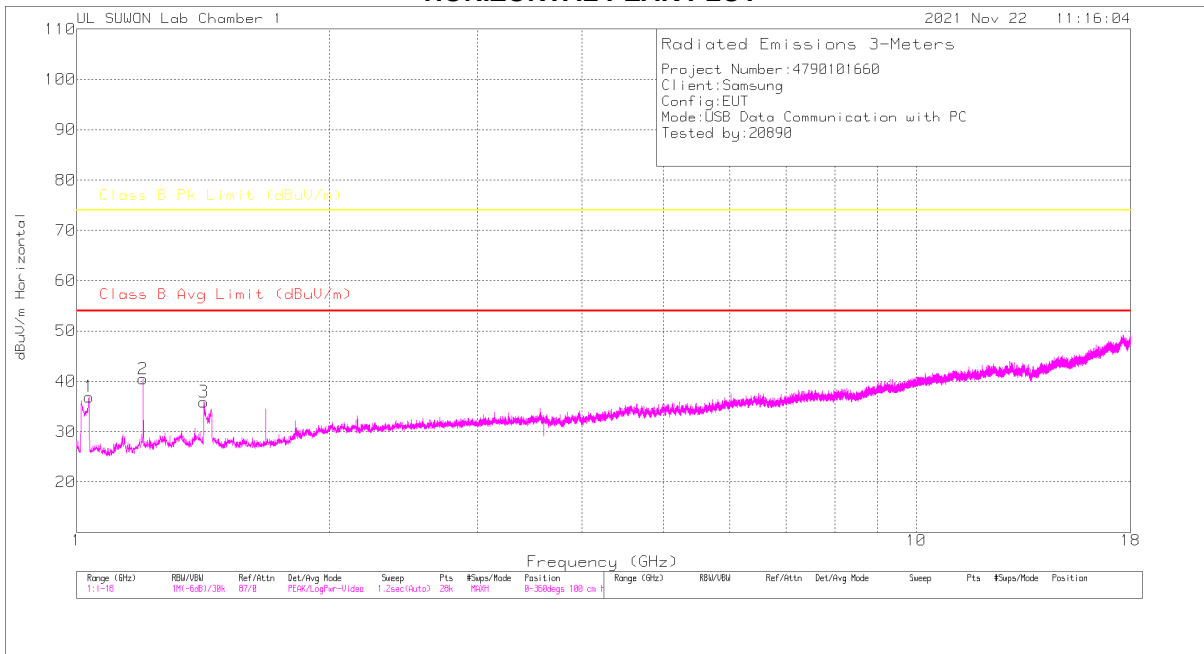
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz(dB) | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.61983 | 58.71 | Pk | 28.4 | -36.5 | 50.61 | - | - | 74 | -23.39 | 115 | 130 | H |
| 1.61983 | 54.25 | Ca | 28.4 | -36.5 | 46.15 | 54 | -7.85 | - | - | 115 | 130 | H |
| 1.61983 | 55.49 | Pk | 28.4 | -36.5 | 47.39 | - | - | 74 | -26.61 | 159 | 366 | V |
| 1.61983 | 51.79 | Ca | 28.4 | -36.5 | 43.69 | 54 | -10.31 | - | - | 159 | 366 | V |
| 3.23951 | 48.21 | Pk | 32.7 | -33.8 | 47.11 | - | - | 74 | -26.89 | 133 | 113 | H |
| 3.23951 | 42.06 | Ca | 32.7 | -33.8 | 40.96 | 54 | -13.04 | - | - | 133 | 113 | H |
| 3.24012 | 49.32 | Pk | 32.7 | -33.8 | 48.22 | - | - | 74 | -25.78 | 302 | 328 | V |
| 3.24012 | 44.88 | Ca | 32.7 | -33.8 | 43.78 | 54 | -10.22 | - | - | 302 | 328 | V |
| 5.40071 | 47.39 | Pk | 34.5 | -31.1 | 50.79 | - | - | 74 | -23.21 | 224 | 348 | H |
| 5.40071 | 42.67 | Ca | 34.5 | -31.1 | 46.07 | 54 | -7.93 | - | - | 224 | 348 | H |
| 5.40071 | 48.89 | Pk | 34.5 | -31.1 | 52.29 | - | - | 74 | -21.71 | 187 | 100 | V |
| 5.40071 | 44.59 | Ca | 34.5 | -31.1 | 47.99 | 54 | -6.01 | - | - | 187 | 100 | V |

Pk - Peak detector

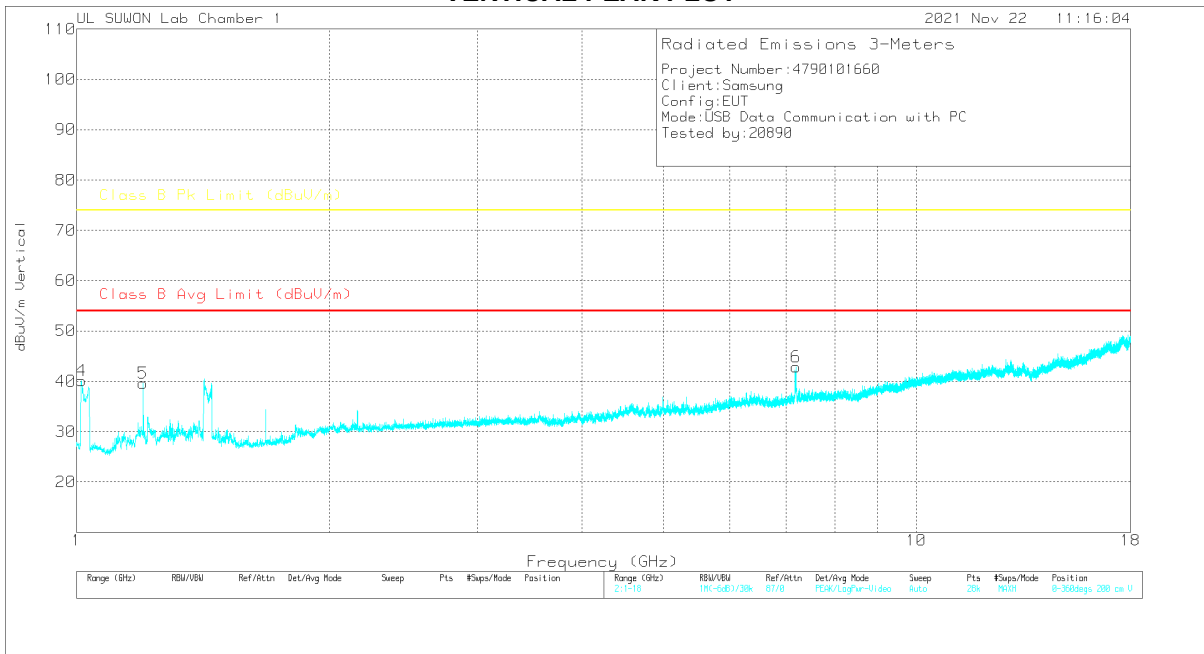
Ca - CISPR average detection

[Test case 4]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz(dB) | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1 | 1.0346 | 46.94 | PK | 27.8 | -37.8 | 36.94 | - | - | 74 | -37.06 | 0-360 | 100 | H |
| 2 | 1.19973 | 49.4 | PK | 28.5 | -37.4 | 40.5 | - | - | 74 | -33.5 | 0-360 | 100 | H |
| 3 | 1.41706 | 43.64 | PK | 29.3 | -37 | 35.94 | - | - | 74 | -38.06 | 0-360 | 100 | H |
| 4 | 1.01336 | 49.97 | PK | 28.1 | -37.9 | 40.17 | - | - | 74 | -33.83 | 0-360 | 200 | V |
| 5 | 1.19973 | 48.54 | PK | 28.5 | -37.4 | 39.64 | - | - | 74 | -34.36 | 0-360 | 200 | V |
| 6 | 7.18977 | 34.85 | PK | 35.9 | -27.9 | 42.85 | - | - | 74 | -31.15 | 0-360 | 200 | V |

PK – Peak Detector

Radiated Emissions

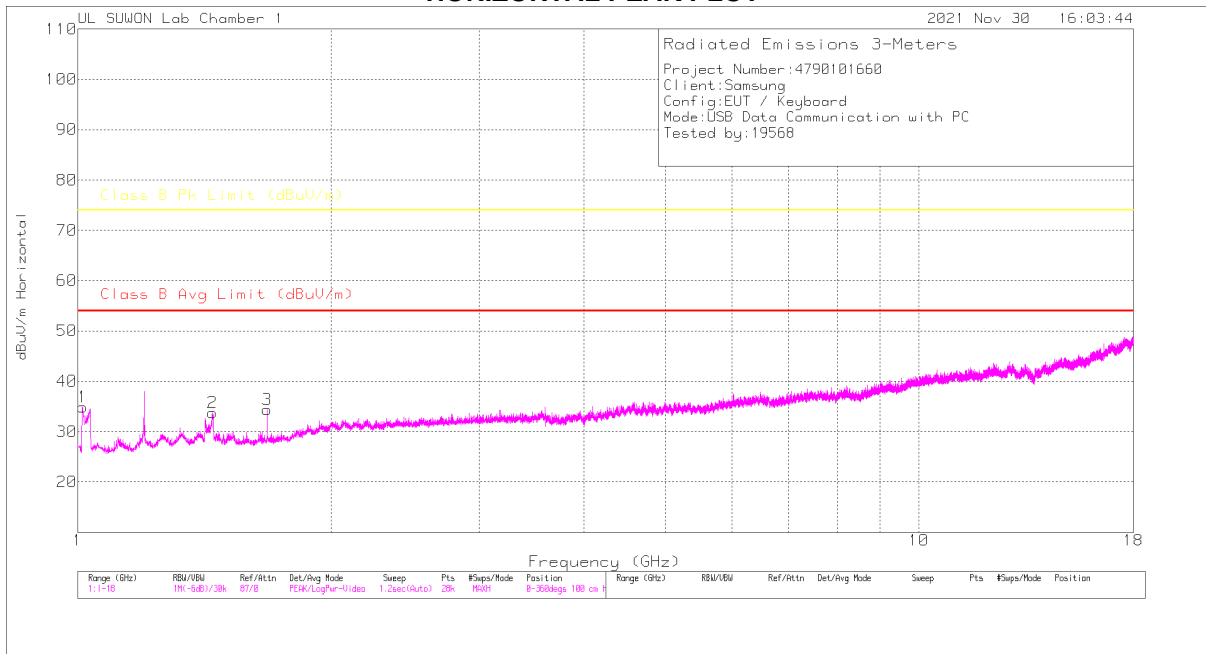
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz(dB) | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.0346 | 43.82 | Pk | 27.8 | -37.8 | 33.82 | - | - | 74 | -40.18 | 30 | 102 | H |
| 1.0346 | 31.9 | Ca | 27.8 | -37.8 | 21.9 | 54 | -32.1 | - | - | 30 | 102 | H |
| 1.01336 | 44.12 | Pk | 27.8 | -37.8 | 34.12 | - | - | 74 | -39.88 | 171 | 366 | V |
| 1.01336 | 31.89 | Ca | 27.8 | -37.8 | 21.89 | 54 | -32.11 | - | - | 171 | 366 | V |
| 1.19973 | 44.32 | Pk | 28.5 | -37.4 | 35.42 | - | - | 74 | -38.58 | 264 | 101 | H |
| 1.19973 | 32.26 | Ca | 28.5 | -37.4 | 23.36 | 54 | -30.64 | - | - | 264 | 101 | H |
| 1.19973 | 44.23 | Pk | 28.5 | -37.4 | 35.33 | - | - | 74 | -38.67 | 302 | 264 | V |
| 1.19973 | 32.38 | Ca | 28.5 | -37.4 | 23.48 | 54 | -30.52 | - | - | 302 | 264 | V |
| 1.41706 | 42.93 | Pk | 29.3 | -37 | 35.23 | - | - | 74 | -38.77 | 41 | 151 | H |
| 1.41706 | 30.96 | Ca | 29.3 | -37 | 23.26 | 54 | -30.74 | - | - | 41 | 151 | H |
| 7.18977 | 42.99 | Pk | 29.3 | -37 | 35.29 | - | - | 74 | -38.71 | 54 | 122 | V |
| 7.18977 | 30.96 | Ca | 29.3 | -37 | 23.26 | 54 | -30.74 | - | - | 54 | 122 | V |

Pk - Peak detector

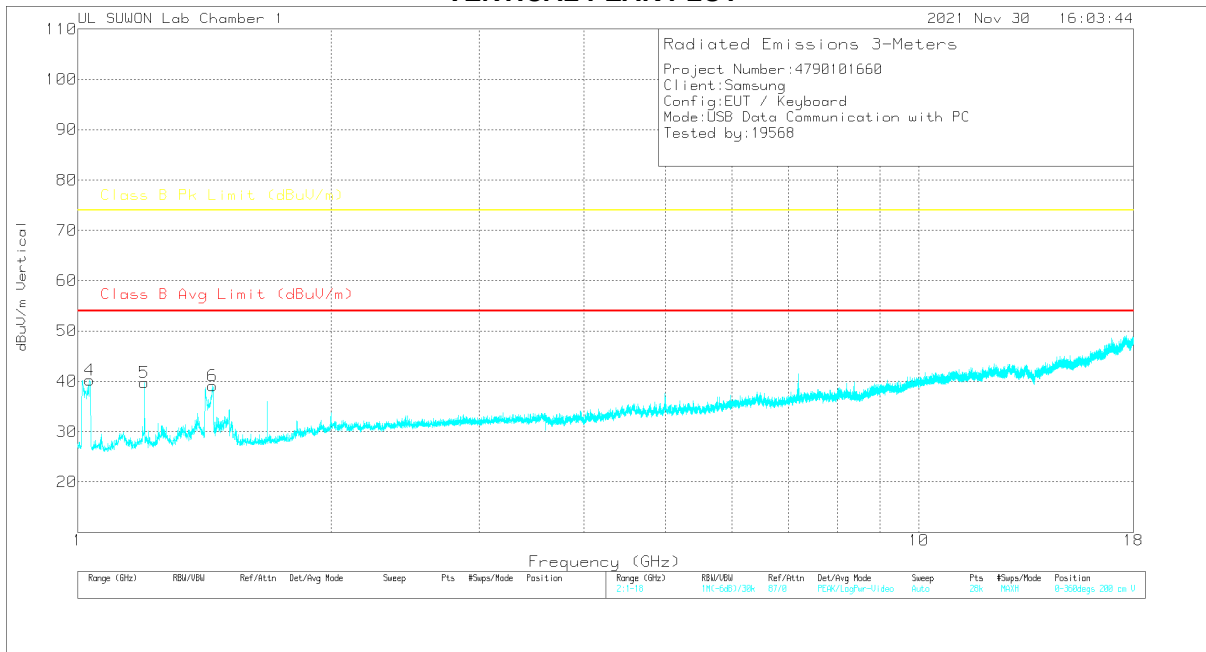
Ca - CISPR average detection

[Test case 5]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1 | 1.01336 | 44.7 | PK | 28.1 | -37.9 | 34.9 | - | - | 74 | -39.1 | 0-360 | 100 | H |
| 2 | 1.44742 | 41.51 | PK | 29.2 | -36.9 | 33.81 | - | - | 74 | -40.19 | 0-360 | 100 | H |
| 3 | 1.67993 | 42.34 | PK | 28.5 | -36.4 | 34.44 | - | - | 74 | -39.56 | 0-360 | 100 | H |
| 4 | 1.03218 | 50.22 | PK | 27.8 | -37.8 | 40.22 | - | - | 74 | -33.78 | 0-360 | 200 | V |
| 5 | 1.19973 | 48.61 | PK | 28.5 | -37.4 | 39.71 | - | - | 74 | -34.29 | 0-360 | 200 | V |
| 6 | 1.4462 | 46.78 | PK | 29.2 | -36.9 | 39.08 | - | - | 74 | -34.92 | 0-360 | 200 | V |

PK – Peak Detector

Radiated Emissions

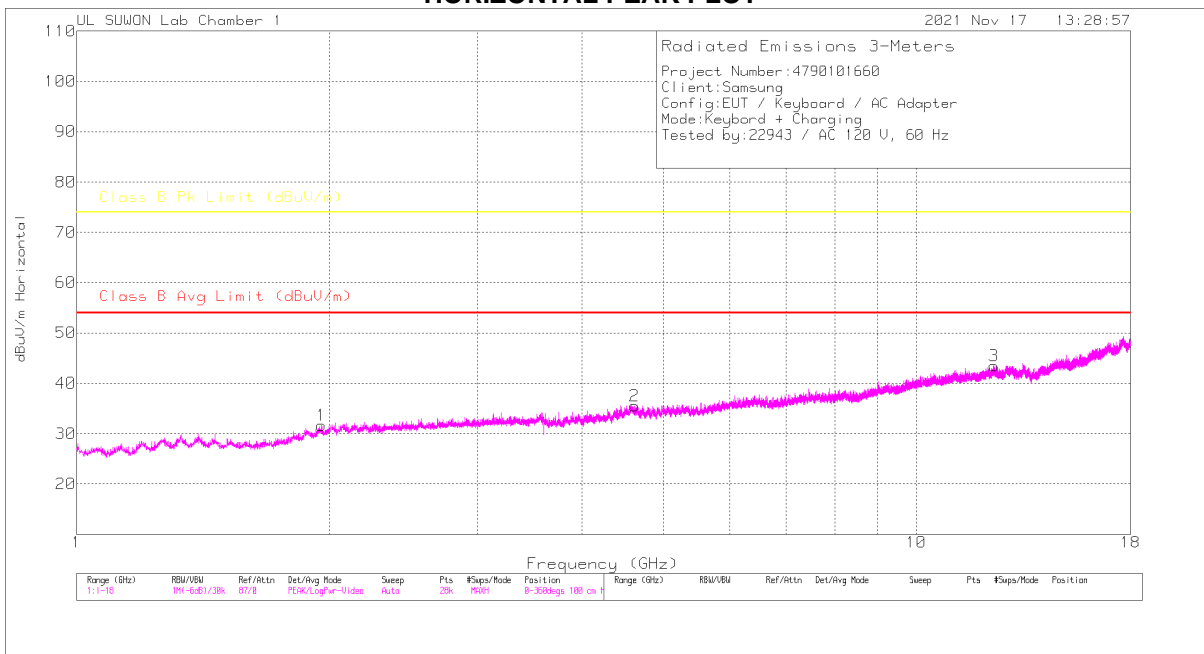
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.01336 | 58.16 | Pk | 28.1 | -37.9 | 48.36 | - | - | 74 | -25.64 | 54 | 102 | H |
| 1.01336 | 34.64 | Ca | 28.1 | -37.9 | 24.84 | 54 | -29.16 | - | - | 54 | 102 | H |
| 1.03218 | 43.78 | Pk | 28.1 | -37.9 | 33.98 | - | - | 74 | -40.02 | 37 | 308 | V |
| 1.03218 | 31.98 | Ca | 28.1 | -37.9 | 22.18 | 54 | -31.82 | - | - | 37 | 308 | V |
| 1.44742 | 43.99 | Pk | 29.2 | -36.9 | 36.29 | - | - | 74 | -37.71 | 212 | 108 | H |
| 1.44742 | 31.59 | Ca | 29.2 | -36.9 | 23.89 | 54 | -30.11 | - | - | 212 | 108 | H |
| 1.19973 | 43.97 | Pk | 29.2 | -36.9 | 36.27 | - | - | 74 | -37.73 | 317 | 366 | V |
| 1.19973 | 31.6 | Ca | 29.2 | -36.9 | 23.9 | 54 | -30.1 | - | - | 317 | 366 | V |
| 1.67993 | 43.5 | Pk | 28.5 | -36.4 | 35.6 | - | - | 74 | -38.4 | 110 | 112 | H |
| 1.67993 | 31.45 | Ca | 28.5 | -36.4 | 23.55 | 54 | -30.45 | - | - | 110 | 112 | H |
| 1.4462 | 43.38 | Pk | 28.5 | -36.4 | 35.48 | - | - | 74 | -38.52 | 301 | 351 | V |
| 1.4462 | 31.43 | Ca | 28.5 | -36.4 | 23.53 | 54 | -30.47 | - | - | 301 | 351 | V |

Pk - Peak detector

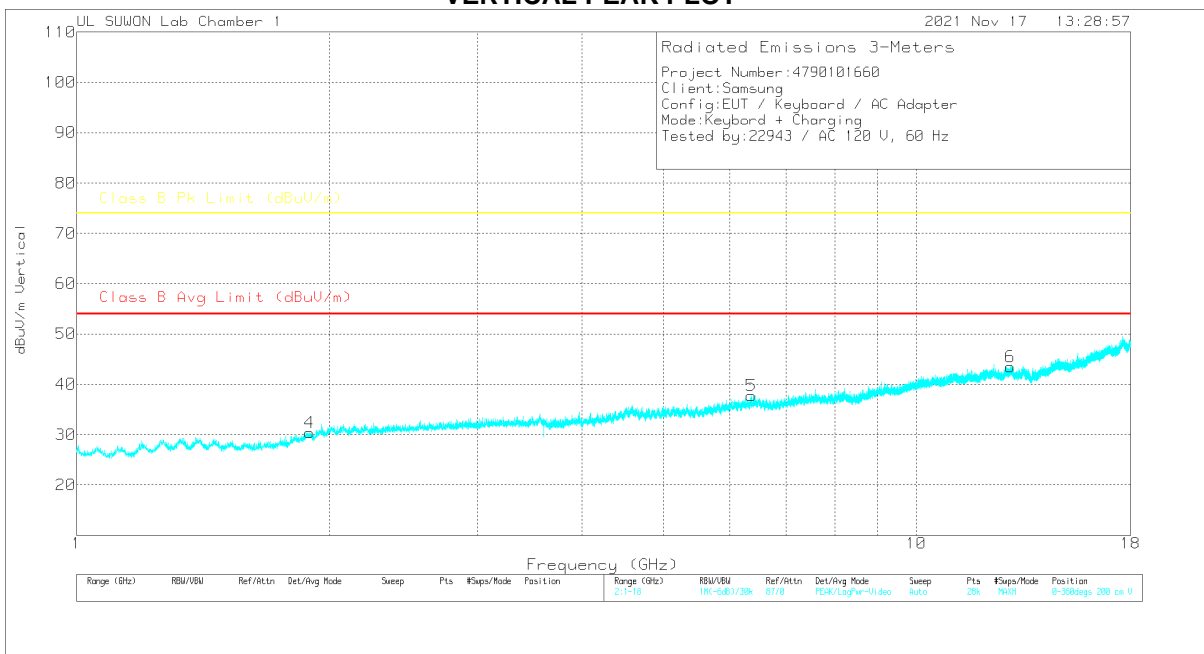
Ca - CISPR average detection

[Test case 6]

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1 | 1.95675 | 36.21 | PK | 31.2 | -35.8 | 31.61 | - | - | 74 | -42.39 | 0-360 | 100 | H |
| 2 | 4.61818 | 33.32 | PK | 34.2 | -32 | 35.52 | - | - | 74 | -38.48 | 0-360 | 100 | H |
| 3 | 12.37057 | 26.78 | PK | 38.9 | -22.2 | 43.48 | - | - | 74 | -30.52 | 0-360 | 100 | H |
| 4 | 1.89483 | 35.74 | PK | 30.6 | -35.9 | 30.44 | - | - | 74 | -43.56 | 0-360 | 200 | V |
| 5 | 6.36232 | 31.82 | PK | 35.5 | -29.6 | 37.72 | - | - | 74 | -36.28 | 0-360 | 200 | V |
| 6 | 12.95094 | 27.51 | PK | 39 | -23 | 43.51 | - | - | 74 | -30.49 | 0-360 | 200 | V |

PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 1-18GHz[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|---------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.95675 | 42.76 | Pk | 31.2 | -35.8 | 38.16 | - | - | 74 | -35.84 | 360 | 100 | H |
| 1.95675 | 30.68 | Ca | 31.2 | -35.8 | 26.08 | 54 | -27.92 | - | - | 360 | 100 | H |
| 4.61818 | 39.28 | Pk | 34.2 | -32 | 41.48 | - | - | 74 | -32.52 | 360 | 100 | V |
| 4.61818 | 27.27 | Ca | 34.2 | -32 | 29.47 | 54 | -24.53 | - | - | 360 | 100 | V |
| 12.37057 | 34.66 | Pk | 38.9 | -22.2 | 51.36 | - | - | 74 | -22.64 | 360 | 100 | H |
| 12.37057 | 21.9 | Ca | 38.9 | -22.2 | 38.6 | 54 | -15.4 | - | - | 360 | 100 | H |
| 1.89483 | 42.75 | Pk | 30.6 | -35.9 | 37.45 | - | - | 74 | -36.55 | 360 | 100 | V |
| 1.89483 | 30.63 | Ca | 30.6 | -35.9 | 25.33 | 54 | -28.67 | - | - | 360 | 100 | V |
| 6.36232 | 38.51 | PK | 35.5 | -29.6 | 44.41 | - | - | 74 | -29.59 | 360 | 100 | H |
| 6.36232 | 25.95 | Ca | 35.5 | -29.6 | 31.85 | 54 | -22.15 | - | - | 360 | 100 | H |
| 12.95094 | 34.96 | Pk | 39 | -23 | 50.96 | - | - | 74 | -23.04 | 360 | 100 | V |
| 12.95094 | 22.79 | Ca | 39 | -23 | 38.79 | 54 | -15.21 | - | - | 360 | 100 | V |

Pk - Peak detector

Ca - CISPR average detection

7.2. CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

| Frequency range (MHz) | Limits (dB μ V) | |
|--------------------------|---------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Notes:
 1. The lower limit shall apply at the transition frequencies
 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

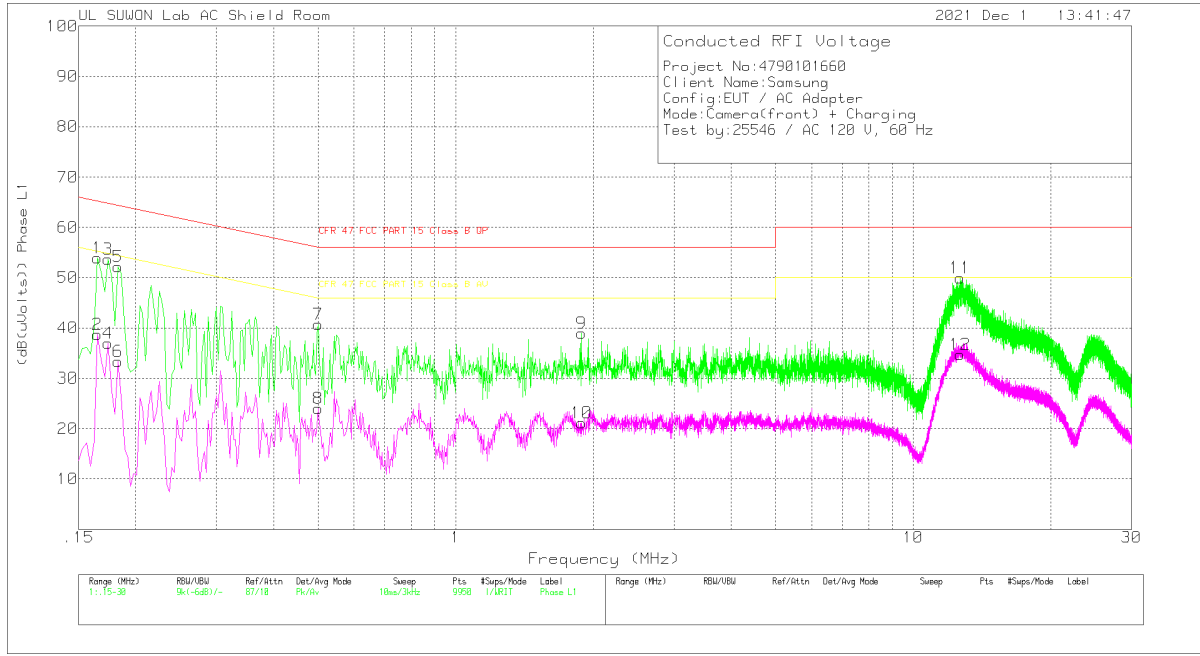
7.2.1. CONDUCTED EMISSIONS

[Test case 1]

6 WORST EMISSIONS

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

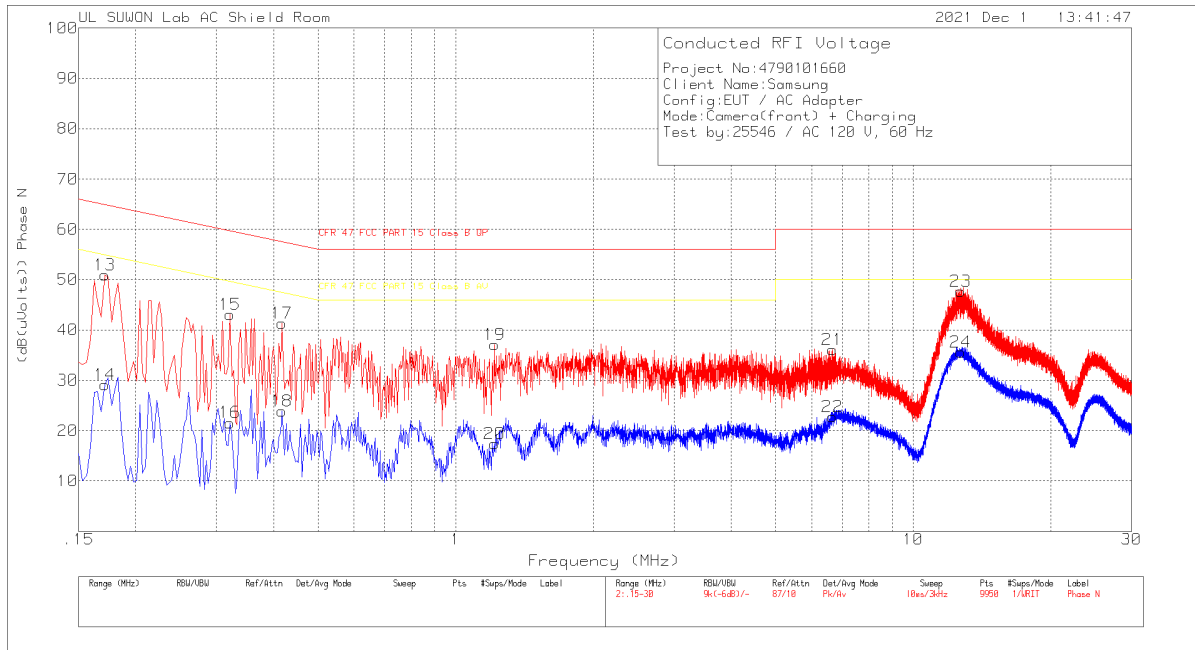
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOSS(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------------------|---------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 1 | .165 | 43.92 | Pk | 9.9 | .1 | 53.92 | 65.21 | -11.29 | - | - |
| 2 | .165 | 28.76 | Av | 9.9 | .1 | 38.76 | - | - | 55.21 | -16.45 |
| 3 | .174 | 43.43 | Pk | 10 | .2 | 53.63 | 64.77 | -11.14 | - | - |
| 4 | .174 | 26.76 | Av | 10 | .2 | 36.96 | - | - | 54.77 | -17.81 |
| 5 | .183 | 42.04 | Pk | 9.9 | .2 | 52.14 | 64.35 | -12.21 | - | - |
| 6 | .183 | 23.26 | Av | 9.9 | .2 | 33.36 | - | - | 54.35 | -20.99 |
| 7 | .501 | 30.63 | Pk | 9.9 | .2 | 40.73 | 56 | -15.27 | - | - |
| 8 | .501 | 13.87 | Av | 9.9 | .2 | 23.97 | - | - | 46 | -22.03 |
| 9 | 1.884 | 29 | Pk | 9.7 | .3 | 39 | 56 | -17 | - | - |
| 10 | 1.884 | 11.13 | Av | 9.7 | .3 | 21.13 | - | - | 46 | -24.87 |
| 11 | 12.642 | 39.79 | Pk | 9.9 | .3 | 49.99 | 60 | -10.01 | - | - |
| 12 | 12.642 | 24.54 | Av | 9.9 | .3 | 34.74 | - | - | 50 | -15.26 |

Pk - Peak detector

Av - Average detection

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_N[dB] | CABLELOSS (dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|-----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 13 | .171 | 40.72 | Pk | 10 | .2 | 50.92 | 64.91 | -13.99 | - | - |
| 14 | .171 | 18.89 | Av | 10 | .2 | 29.09 | - | - | 54.91 | -25.82 |
| 15 | .321 | 33.21 | Pk | 9.7 | .2 | 43.11 | 59.68 | -16.57 | - | - |
| 16 | .321 | 11.68 | Av | 9.7 | .2 | 21.58 | - | - | 49.68 | -28.1 |
| 17 | .417 | 31.3 | Pk | 9.8 | .2 | 41.3 | 57.51 | -16.21 | - | - |
| 18 | .417 | 13.84 | Av | 9.8 | .2 | 23.84 | - | - | 47.51 | -23.67 |
| 19 | 1.215 | 27.04 | Pk | 9.7 | .3 | 37.04 | 56 | -18.96 | - | - |
| 20 | 1.215 | 7.35 | Av | 9.7 | .3 | 17.35 | - | - | 46 | -28.65 |
| 21 | 6.663 | 26.01 | Pk | 9.8 | .3 | 36.11 | 60 | -23.89 | - | - |
| 22 | 6.663 | 12.69 | Av | 9.8 | .3 | 22.79 | - | - | 50 | -27.21 |
| 23 | 12.705 | 37.39 | Pk | 10 | .3 | 47.69 | 60 | -12.31 | - | - |
| 24 | 12.705 | 25.32 | Av | 10 | .3 | 35.62 | - | - | 50 | -14.38 |

Pk - Peak detector

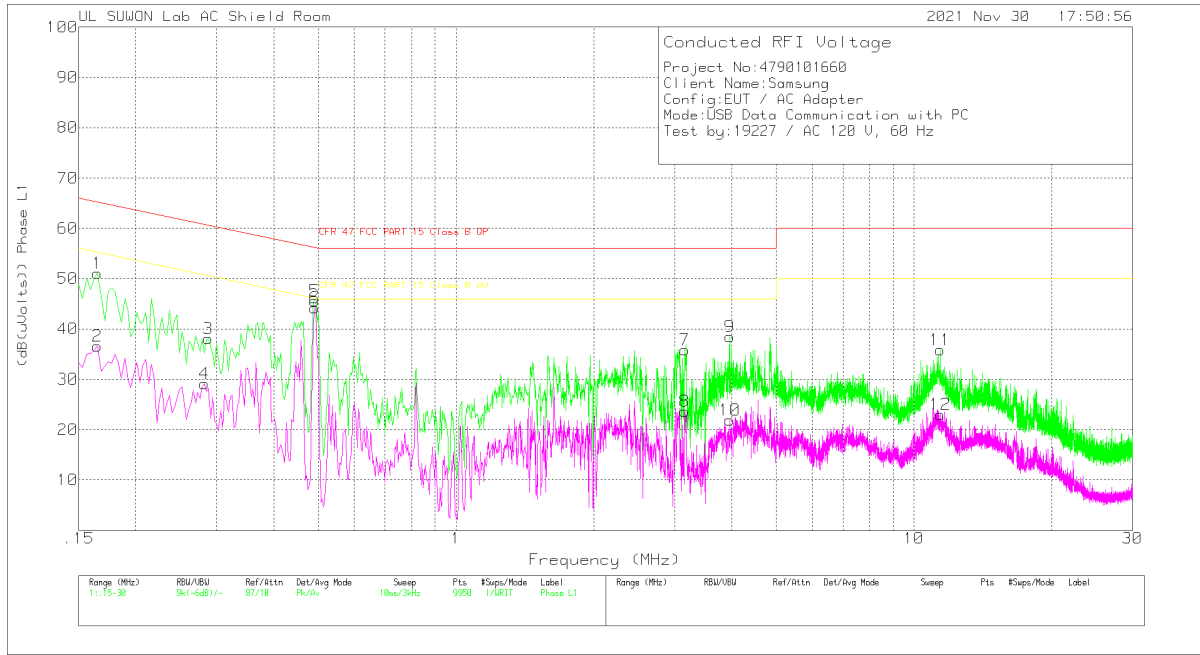
Av - Average detection

[Test case 4]

6 WORST EMISSIONS

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

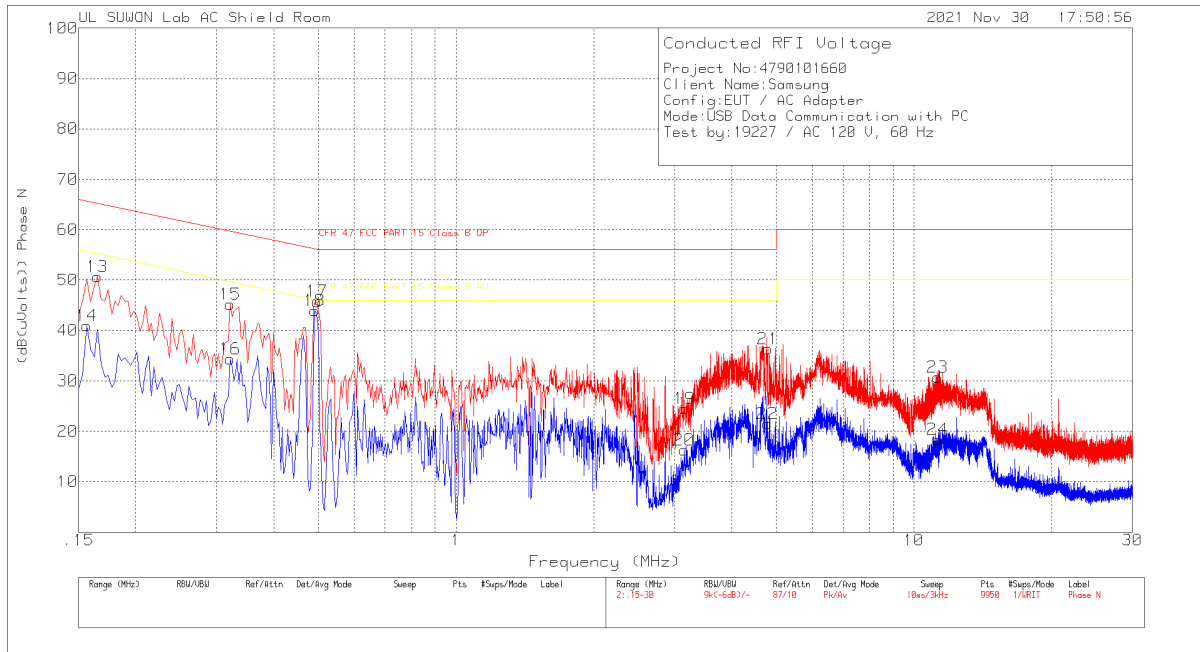
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOSS(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------------------|---------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 1 | .165 | 41.07 | Pk | 9.9 | .1 | 51.07 | 65.21 | -14.14 | - | - |
| 2 | .165 | 26.58 | Av | 9.9 | .1 | 36.58 | - | - | 55.21 | -18.63 |
| 3 | .288 | 28.2 | Pk | 9.7 | .2 | 38.1 | 60.58 | -22.48 | - | - |
| 4 | .282 | 19.22 | Av | 9.7 | .2 | 29.12 | - | - | 50.76 | -21.64 |
| 5 | .492 | 35.45 | Pk | 9.9 | .2 | 45.55 | 56.13 | -10.58 | - | - |
| 6 | .492 | 34.15 | Av | 9.9 | .2 | 44.25 | - | - | 46.13 | -1.88 |
| 7 | 3.162 | 25.8 | Pk | 9.7 | .3 | 35.8 | 56 | -20.2 | - | - |
| 8 | 3.162 | 13.64 | Av | 9.7 | .3 | 23.64 | - | - | 46 | -22.36 |
| 9 | 3.96 | 28.52 | Pk | 9.7 | .3 | 38.52 | 56 | -17.48 | - | - |
| 10 | 3.96 | 11.93 | Av | 9.7 | .3 | 21.93 | - | - | 46 | -24.07 |
| 11 | 11.421 | 25.66 | Pk | 9.9 | .3 | 35.86 | 60 | -24.14 | - | - |
| 12 | 11.421 | 12.77 | Av | 9.9 | .3 | 22.97 | - | - | 50 | -27.03 |

Pk - Peak detector

Av - Average detection

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_N[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|-----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 13 | .165 | 40.67 | Pk | 9.9 | .1 | 50.67 | 65.21 | -14.54 | - | - |
| 14 | .156 | 31.05 | Av | 9.8 | .1 | 40.95 | - | - | 55.67 | -14.72 |
| 15 | .321 | 35.24 | Pk | 9.7 | .2 | 45.14 | 59.68 | -14.54 | - | - |
| 16 | .321 | 24.45 | Av | 9.7 | .2 | 34.35 | - | - | 49.68 | -15.33 |
| 17 | .498 | 35.66 | Pk | 9.9 | .2 | 45.76 | 56.03 | -10.27 | - | - |
| 18 | .492 | 33.8 | Av | 9.9 | .2 | 43.9 | - | - | 46.13 | -2.23 |
| 19 | 3.156 | 14.53 | Pk | 9.7 | .3 | 24.53 | 56 | -31.47 | - | - |
| 20 | 3.147 | 6.28 | Av | 9.7 | .3 | 16.28 | - | - | 46 | -29.72 |
| 21 | 4.794 | 26.31 | Pk | 9.7 | .3 | 36.31 | 56 | -19.69 | - | - |
| 22 | 4.791 | 11.57 | Av | 9.7 | .3 | 21.57 | - | - | 46 | -24.43 |
| 23 | 11.265 | 20.53 | Pk | 9.9 | .3 | 30.73 | 60 | -29.27 | - | - |
| 24 | 11.274 | 8.23 | Av | 9.9 | .3 | 18.43 | - | - | 50 | -31.57 |

Pk - Peak detector

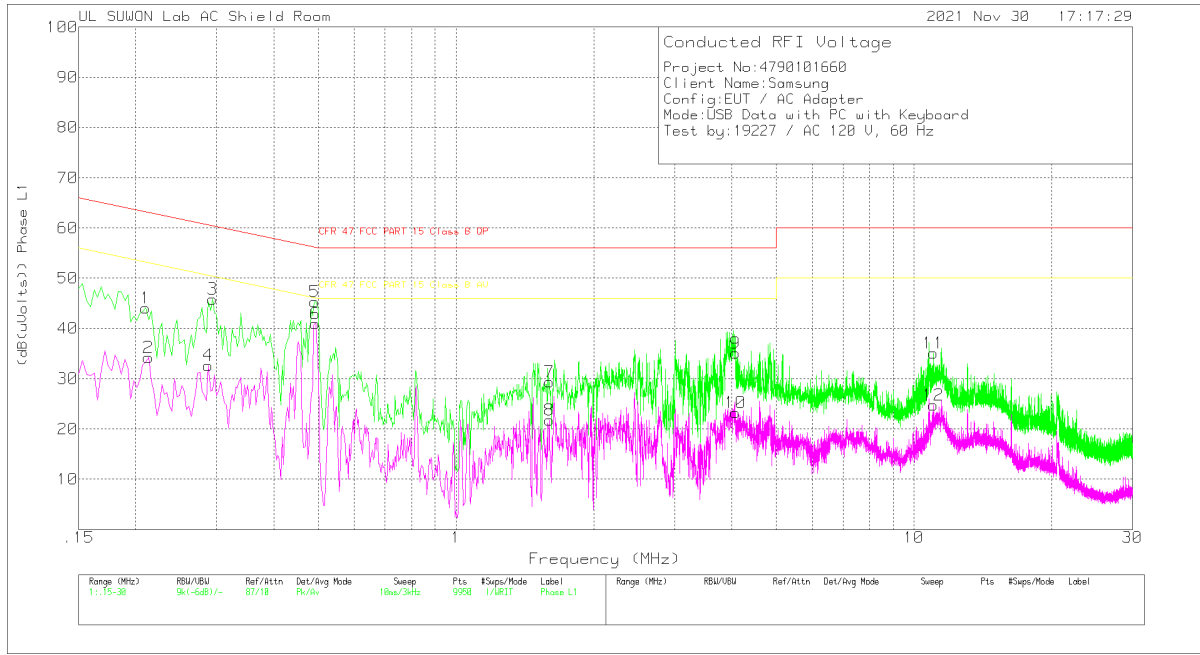
Av - Average detection

[Test case 5]

6 WORST EMISSIONS

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

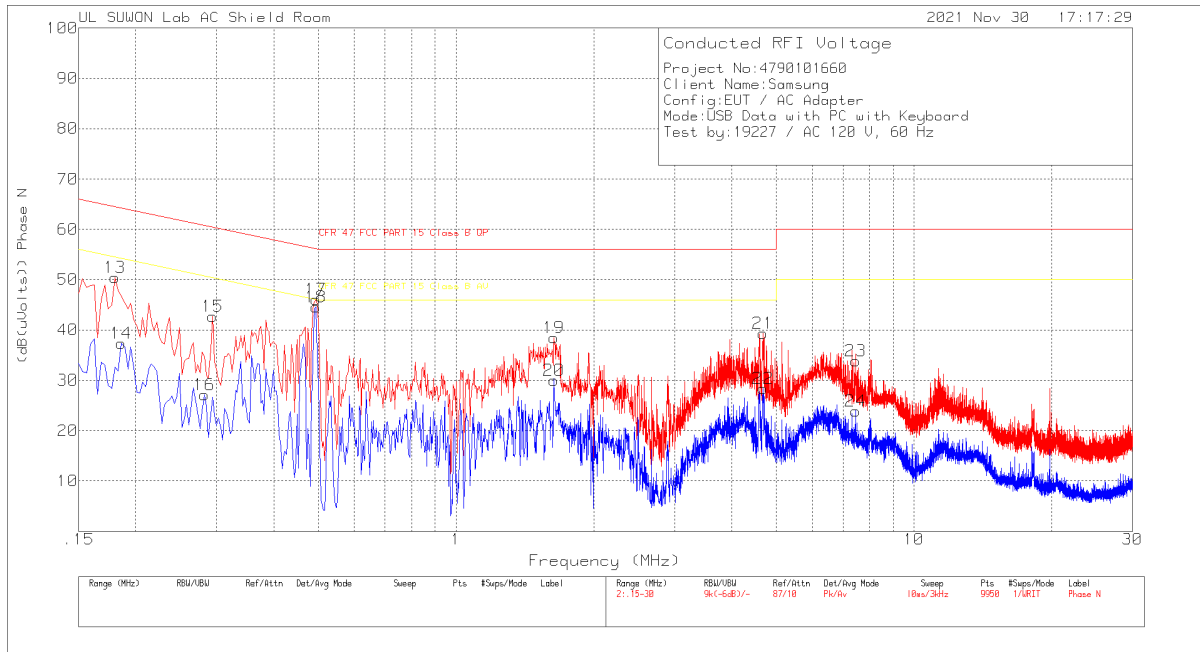
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOSS(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------------------|---------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 1 | .21 | 34.06 | Pk | 9.8 | .2 | 44.06 | 63.21 | -19.15 | - | - |
| 2 | .213 | 24.21 | Av | 9.8 | .2 | 34.21 | - | - | 53.09 | -18.88 |
| 3 | .294 | 35.98 | Pk | 9.7 | .2 | 45.88 | 60.41 | -14.53 | - | - |
| 4 | .288 | 22.77 | Av | 9.7 | .2 | 32.67 | - | - | 50.58 | -17.91 |
| 5 | .492 | 35.21 | Pk | 9.9 | .2 | 45.31 | 56.13 | -10.82 | - | - |
| 6 | .4935 | 30.84 | Av | 9.9 | .2 | 40.94 | - | - | 46.11 | -5.17 |
| 7 | 1.599 | 19.39 | Pk | 9.7 | .3 | 29.39 | 56 | -26.61 | - | - |
| 8 | 1.599 | 11.82 | Av | 9.7 | .3 | 21.82 | - | - | 46 | -24.18 |
| 9 | 4.074 | 25.15 | Pk | 9.7 | .3 | 35.15 | 56 | -20.85 | - | - |
| 10 | 4.077 | 13.28 | Av | 9.7 | .3 | 23.28 | - | - | 46 | -22.72 |
| 11 | 11.022 | 24.89 | Pk | 9.9 | .3 | 35.09 | 60 | -24.91 | - | - |
| 12 | 11.022 | 14.55 | Av | 9.9 | .3 | 24.75 | - | - | 50 | -25.25 |

Pk - Peak detector

Av - Average detection

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_With EX_N[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 13 | .18 | 40.36 | Pk | 9.9 | .2 | 50.46 | 64.49 | -14.03 | - | - |
| 14 | .186 | 27.28 | Av | 9.9 | .2 | 37.38 | - | - | 54.21 | -16.83 |
| 15 | .294 | 32.83 | Pk | 9.7 | .2 | 42.73 | 60.41 | -17.68 | - | - |
| 16 | .282 | 17.18 | Av | 9.7 | .2 | 27.08 | - | - | 50.76 | -23.68 |
| 17 | .495 | 36 | Pk | 9.9 | .2 | 46.1 | 56.08 | -9.98 | - | - |
| 18 | .495 | 34.46 | Av | 9.9 | .2 | 44.56 | - | - | 46.08 | -1.52 |
| 19 | 1.635 | 28.42 | Pk | 9.7 | .3 | 38.42 | 56 | -17.58 | - | - |
| 20 | 1.635 | 19.97 | Av | 9.7 | .3 | 29.97 | - | - | 46 | -16.03 |
| 21 | 4.683 | 29.29 | Pk | 9.7 | .3 | 39.29 | 56 | -16.71 | - | - |
| 22 | 4.686 | 18.32 | Av | 9.7 | .3 | 28.32 | - | - | 46 | -17.68 |
| 23 | 7.452 | 23.79 | Pk | 9.8 | .3 | 33.89 | 60 | -26.11 | - | - |
| 24 | 7.452 | 13.84 | Av | 9.8 | .3 | 23.94 | - | - | 50 | -26.06 |

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

| Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_With EX_N[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|-----------------|----------------------|-----|----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| .49515 | 34.94 | Qp | 9.9 | .2 | 45.04 | 56.08 | -11.04 | - | - |

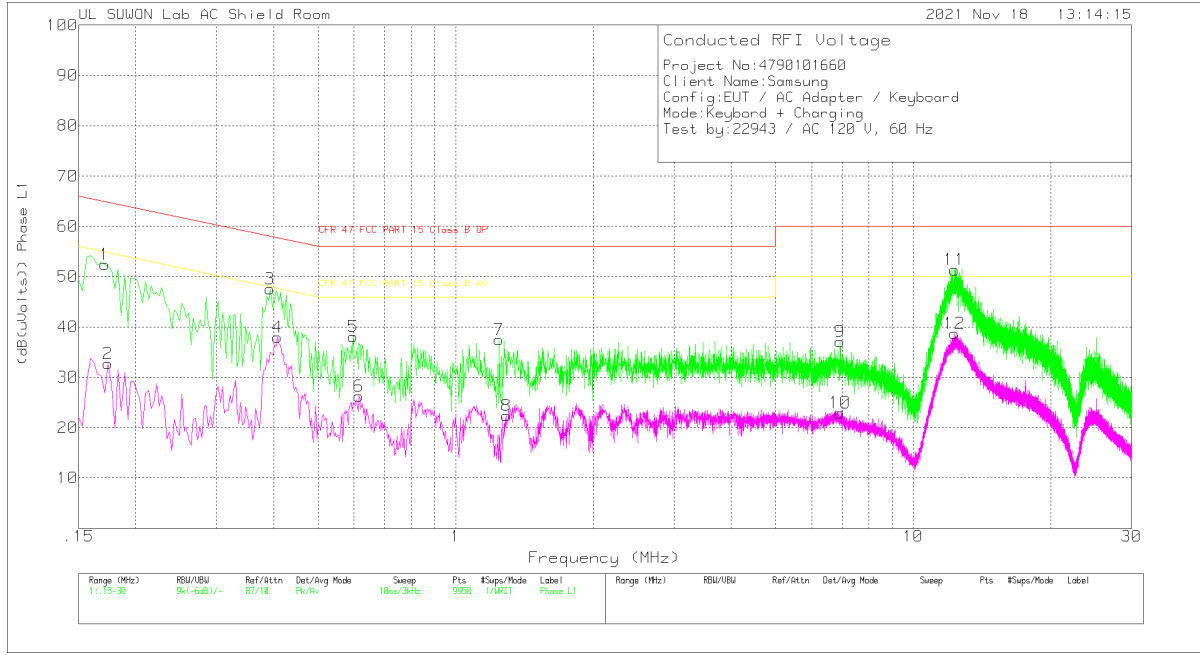
Qp - Quasi-Peak detector

[Test case 6]

6 WORST EMISSIONS

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 1 | .171 | 42.25 | Pk | 10 | .2 | 52.45 | 64.91 | -12.46 | - | - |
| 2 | .174 | 22.55 | Av | 10 | .2 | 32.75 | - | - | 54.77 | -22.02 |
| 3 | .393 | 37.51 | Pk | 9.8 | .2 | 47.51 | 58 | -10.49 | - | - |
| 4 | .408 | 27.99 | Av | 9.8 | .2 | 37.99 | - | - | 47.69 | -9.7 |
| 5 | .597 | 28.04 | Pk | 9.8 | .2 | 38.04 | 56 | -17.96 | - | - |
| 6 | .615 | 16.22 | Av | 9.8 | .2 | 26.22 | - | - | 46 | -19.78 |
| 7 | 1.245 | 27.44 | Pk | 9.7 | .3 | 37.44 | 56 | -18.56 | - | - |
| 8 | 1.29 | 12.36 | Av | 9.7 | .3 | 22.36 | - | - | 46 | -23.64 |
| 9 | 6.912 | 26.98 | Pk | 9.8 | .3 | 37.08 | 60 | -22.92 | - | - |
| 10 | 6.909 | 12.85 | Av | 9.8 | .3 | 22.95 | - | - | 50 | -27.05 |
| 11 | 12.321 | 41.17 | Pk | 9.9 | .3 | 51.37 | 60 | -8.63 | - | - |
| 12 | 12.312 | 28.57 | Av | 9.9 | .3 | 38.77 | - | - | 50 | -11.23 |

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

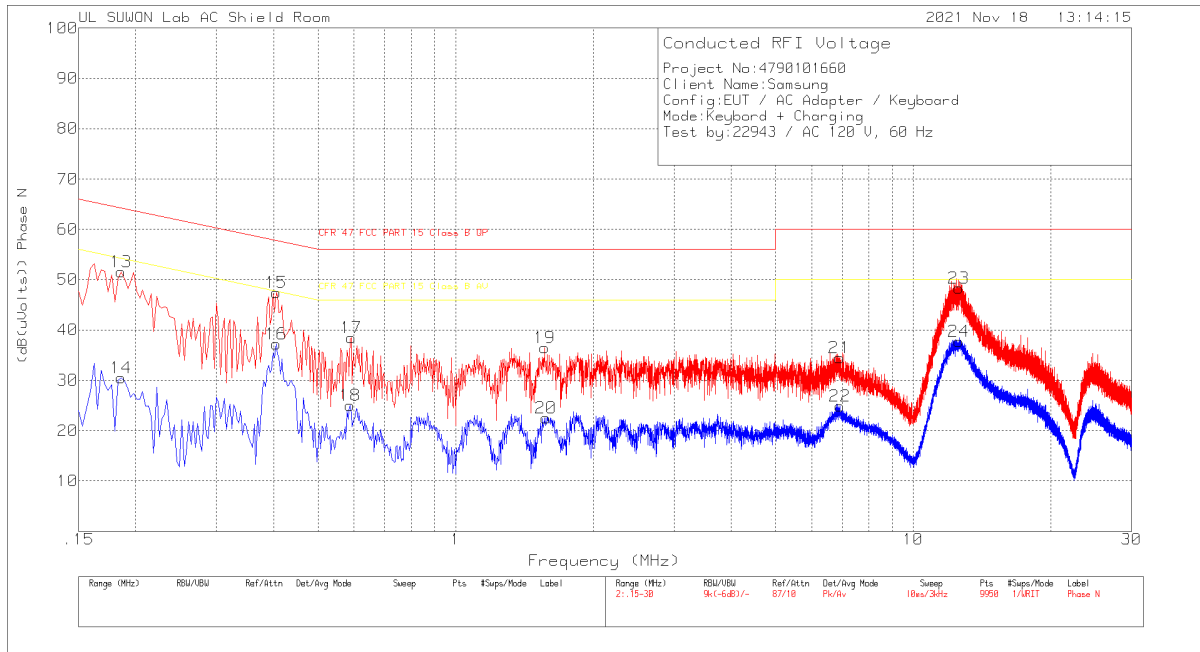
Range 1: Phase L1 .15 - 30MHz

| Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|-----------------|----------------------|-----|------------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| .40725 | 35.33 | Qp | 9.8 | .2 | 45.33 | 57.7 | -12.37 | - | - |
| 12.3218 | 35.39 | Qp | 9.9 | .3 | 45.59 | 60 | -14.41 | - | - |

Qp - Quasi-Peak detector

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_N[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|-----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 13 | .186 | 41.45 | Pk | 9.9 | .2 | 51.55 | 64.21 | -12.66 | - | - |
| 14 | .186 | 20.4 | Av | 9.9 | .2 | 30.5 | - | - | 54.21 | -23.71 |
| 15 | .405 | 37.47 | Pk | 9.8 | .2 | 47.47 | 57.75 | -10.28 | - | - |
| 16 | .405 | 27.23 | Av | 9.8 | .2 | 37.23 | - | - | 47.75 | -10.52 |
| 17 | .591 | 28.42 | Pk | 9.9 | .2 | 38.52 | 56 | -17.48 | - | - |
| 18 | .588 | 14.87 | Av | 9.9 | .2 | 24.97 | - | - | 46 | -21.03 |
| 19 | 1.563 | 26.48 | Pk | 9.7 | .3 | 36.48 | 56 | -19.52 | - | - |
| 20 | 1.575 | 12.57 | Av | 9.7 | .3 | 22.57 | - | - | 46 | -23.43 |
| 21 | 6.906 | 24.43 | Pk | 9.8 | .3 | 34.53 | 60 | -25.47 | - | - |
| 22 | 6.918 | 14.79 | Av | 9.8 | .3 | 24.89 | - | - | 50 | -25.11 |
| 23 | 12.585 | 37.96 | Pk | 10 | .3 | 48.26 | 60 | -11.74 | - | - |
| 24 | 12.579 | 27.39 | Av | 10 | .3 | 37.69 | - | - | 50 | -12.31 |

Pk - Peak detector

Av - Average detection

END OF TEST REPORT