



CERTIFICATION TEST REPORT

Report Number. : 4790379967-E1V1

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

Model : SM-A236U, SM-A236U1/DS, SM-S236DL

FCC ID : A3LSMA236U

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

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

Date Of Issue:

2022-06-24

Prepared by:

UL Korea, Ltd.

26th floor, 152, Teheran-ro, Gangnam-gu Seoul, 06236, Korea

Suwon Test Site: UL Korea, Ltd. Suwon Laboratory

218 Maeyeong-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16675, Korea

TEL: (031) 337-9902

FAX: (031) 213-5433



ACCREDITED

Testing Laboratory

TL-637

Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-------------------|------------------|-------------------|
| V1 | 2022-06-24 | Initial issue | Yeonhee Lim |

TABLE OF CONTENTS

| | |
|--|-----------|
| 1. ATTESTATION OF TEST RESULTS | 4 |
| 2. TEST METHODOLOGY | 5 |
| 3. FACILITIES AND ACCREDITATION | 5 |
| 4. CALIBRATION AND UNCERTAINTY | 6 |
| 4.1. MEASURING INSTRUMENT CALIBRATION..... | 6 |
| 4.2. SAMPLE CALCULATION..... | 6 |
| 4.3. MEASUREMENT UNCERTAINTY | 6 |
| 4.4. DECISION RULE | 6 |
| 5. EQUIPMENT UNDER TEST | 7 |
| 5.1. DESCRIPTION OF EUT..... | 7 |
| 5.2. TEST MODE..... | 7 |
| 5.3. WORST-CASE ORIENTATION AND MODE..... | 8 |
| 5.4. DESCRIPTION OF TEST SETUP | 9 |
| 6. TEST AND MEASUREMENT EQUIPMENT | 10 |
| 7. APPLICABLE LIMITS AND TEST RESULTS | 11 |
| 7.1. RADIATED EMISSIONS | 11 |
| 7.1.1. Above 1 GHz in the GSM850..... | 12 |
| 7.1.2. Above 1 GHz in the WCDMA Band 5..... | 15 |
| 7.1.3. Above 1 GHz in the LTE Band 12 | 16 |
| 7.1.4. Above 1 GHz in the LTE Band 13 | 19 |
| 7.1.5. Above 1 GHz in the LTE Band 14 | 20 |
| 7.1.6. Above 1GHz in the LTE Band 26 | 23 |
| 7.1.7. Above 1 GHz in the LTE Band 71 | 26 |
| 7.1.8. Below 1 GHz in the GSM850 | 29 |
| 7.1.9. Below 1 GHz in the WCDMA Band 5 | 32 |
| 7.1.10. Below 1 GHz in the LTE Band 12 | 33 |
| 7.1.11. Below 1 GHz in the LTE Band 13 | 39 |
| 7.1.12. Below 1 GHz in the LTE Band 14 | 41 |
| 7.1.13. Below 1 GHz in the LTE Band 26 | 47 |
| 7.1.14. Below 1 GHz in the LTE Band 71 | 50 |
| 7.2. CONDUCTED EMISSIONS..... | 53 |
| 7.2.1 CONDUCTED EMISSIONS | 54 |

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC.
MODEL NUMBER: SM-A236U, SM-A236U1/DS, SM-S236DL
SERIAL NUMBER: R3CT50DATGM, R3CT50DAPVH (RADIATED)
DATE TESTED: 2022-05-24 ~ 2022-06-19;

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

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:



Seokhwan Hong
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Yeonhee Lim
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(3m semi-anechoic chamber) |
| <input checked="" type="checkbox"/> | Chamber 2(3m semi-anechoic chamber) |
| <input type="checkbox"/> | Chamber 3(3m semi-anechoic chamber) |
| <input type="checkbox"/> | Chamber 4(3m Full-anechoic chamber) |
| <input type="checkbox"/> | Chamber 5(3m Full-anechoic chamber) |

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:

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

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

(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 |

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

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC.
This test report addresses the WWAN operational mode.

This report covers the Samsung models SM-A236U, SM-A236U1/DS, SM-S236DL.
These models are identical in hardware except SM-A236U1/DS is supported dual SIM tray and SM-A236U has single SIM tray, SM-S236DL is same hardware.

All series model was same hardware thus, SM-A236U was set for final test.

5.2. TEST MODE

| Mode | Description |
|--------------|---|
| GSM850 | Communicating with Call simulator(CMW500) |
| WCDMA BAND 5 | Communicating with Call simulator(CMW500) |
| LTE BAND 12 | Communicating with Call simulator(CMW500) |
| LTE BAND 13 | Communicating with Call simulator(CMW500) |
| LTE BAND 14 | Communicating with Call simulator(CMW500) |
| LTE BAND 26 | Communicating with Call simulator(CMW500) |
| LTE BAND 71 | Communicating with Call simulator(CMW500) |

5.3. WORST-CASE ORIENTATION AND MODE

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X and Y, it was determined that below orientation was worst-case orientation for each band.

i. Worst Axis Condition

| Band | Worst Case | | |
|----------|------------|---|---|
| | X | Y | Z |
| GSM 850 | O | - | - |
| WCDMA B5 | - | O | - |
| LTE B12 | O | - | - |
| LTE B13 | O | - | - |
| LTE B14 | - | O | - |
| LTE B26 | O | - | - |
| LTE B71 | O | - | - |

WCDMA Band5

WCDMA Band 5(Rx Frequency range: 871.4-891.6 MHz) is covered by GSM 850(Rx Frequency range: 869-894 MHz) due to same frequency range and maximum tune-up limit is higher than WCDMA Band5. Therefore, only Mid channel was checked.

LTE Band 5

LTE Band 5(Rx Frequency range: 869-894 MHz) is covered by LTE Band 26(Rx Frequency range: 859-894 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

LTE Band 17

LTE Band 17(Rx Frequency range: 734-746 MHz) is covered by LTE Band 12(Rx Frequency range: 729-746 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

5G NR Band n5

5G NR BAND n5 (Rx Frequency range: 869-894 MHz) is covered by GSM 850(Rx Frequency range: 869-894 MHz) due to same frequency range and maximum tune-up limit is higher than 5G NR BAND n5.

5G NR Band n71

5G NR BAND n71 (Rx Frequency range: 617-652 MHz) is covered by LTE Band 71(Rx Frequency range: 617-652 MHz) due to same frequency range and maximum tune-up limit is higher than 5G NR BAND n71.

Note : The EUT is continuously communicated with the call box during the tests. Also attached with travel adapter for the worst case condition.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------|-------------|-------------|-----------------|--------|
| Description | Manufacture | Model | Serial Number | FCC ID |
| Charger | SAMSUNG | EP-TA800 | R37MANQ1E72SE3 | N/A |
| Data Cable | SAMSUNG | EP-DN980 | GH39-02115A BWE | N/A |
| Earphone | SAMSUNG | GH59-15055A | EHS64AVFWE | N/A |

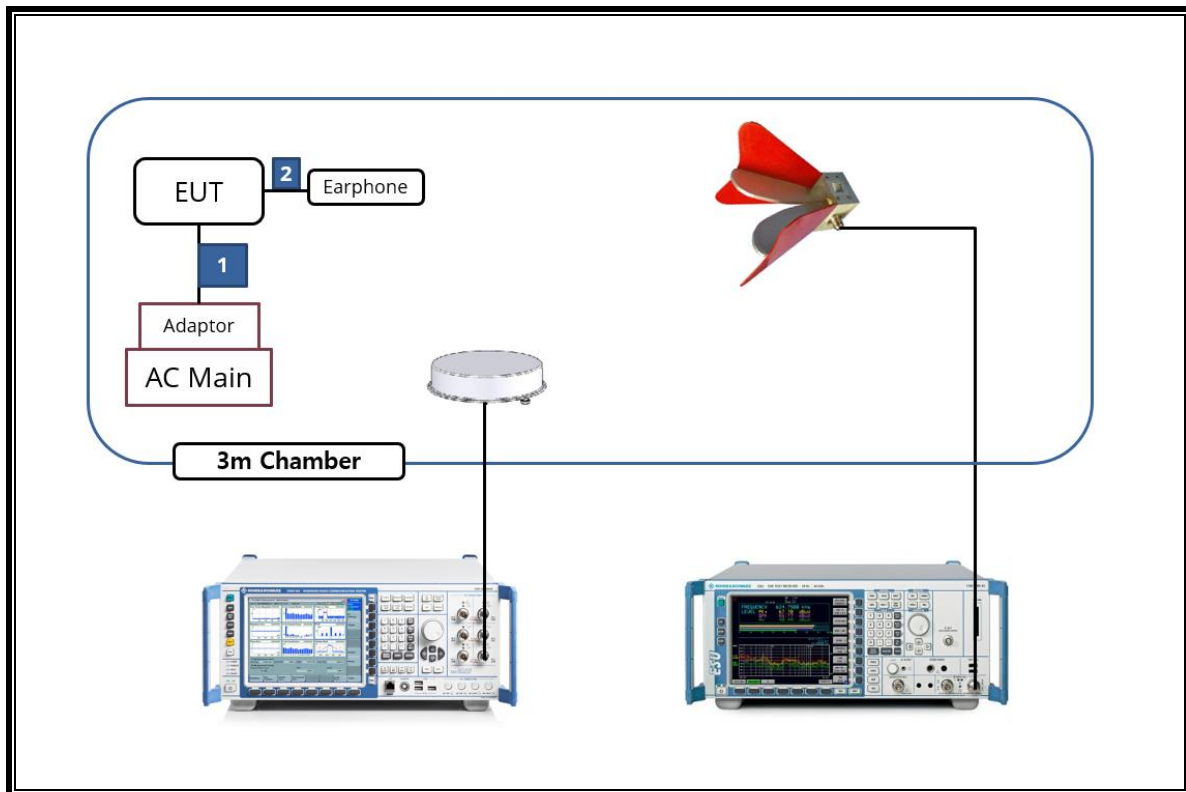
I/O CABLE

| I/O Cable List | | | | | | |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No. | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC Power | 1 | C Type | Shielded | 1.0 m | N/A |
| 2 | Audio | 2 | Mini-Jack | Unshielded | 0.7 m | N/A |

TEST SETUP

The EUT is continuously communicated with the call box during the tests.

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



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, Tuned Dipole 400~1000 MHz | ETS | 3121D DB4 | 00164753 | 2023-02-08 |
| Directional Antenna | Cobham | FPA3-0.8-6.0R/1329 | 110367-0003 | N/A |
| Directional Antenna | Cobham | FPA3-0.8-6.0R/1329 | 80108-0004 | N/A |
| 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 |
| Communications Test Set | R&S | CMW500 | 169796 | 2023-01-07 |
| DC Power Supply | Agilent / HP | E3640A | MY54226395 | 2022-08-02 |
| 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 |
| Spectrum Analyzer, 44 GHz | Agilent / HP | N9030A | MY54170614 | 2022-08-04 |
| Spectrum Analyzer, 44 GHz | Agilent / HP | N9030A | MY54490312 | 2022-08-04 |
| EMI Test Receive, 40 GHz | R&S | ESU40 | 100439 | 2022-08-02 |
| EMI Test Receive, 40 GHz | R&S | ESU40 | 100457 | 2022-08-02 |
| High Pass Filter 1.2GHz | Micro-Tronics | HPM50108-02 | G005 | 2022-08-03 |
| High Pass Filter 1.2GHz | Micro-Tronics | HPM50108-02 | G006 | 2022-08-02 |
| High Pass Filter 2.8GHz | Micro-Tronics | HPM50111-02 | 010 | 2022-08-03 |
| High Pass Filter 2.8GHz | Micro-Tronics | HPM50111-02 | 011 | 2022-08-02 |
| High Pass Filter 4GHz | Micro-Tronics | HPM50118-02 | G001 | 2022-08-03 |
| High Pass Filter 4GHz | Micro-Tronics | HPM50118-02 | G002 | 2022-08-02 |
| Attenuator | PASTERNAK | PE7087-10 | A009 | 2022-08-03 |
| Attenuator | PASTERNAK | PE7087-10 | A001 | 2022-08-03 |
| Attenuator | PASTERNAK | PE7087-10 | A008 | 2022-08-03 |
| Attenuator | PASTERNAK | PE7004-10 | 2 | 2022-08-02 |
| Attenuator | PASTERNAK | PE7395-10 | A011 | 2022-08-03 |
| Temperature Chamber | ESPEC | SH-642 | 93001109 | 2022-08-02 |
| Power Splitter | MINI-CIRCUITS | WA1534 | UL003 | 2023-01-11 |
| Power Splitter | MINI-CIRCUITS | WA1534 | UL004 | 2023-01-11 |
| UL Software | | | | |
| Description | Manufacturer | Model | Version | |
| Antenna port test software | UL | CLT | Ver 3.4 | |
| Radiated software | UL | UL EMC | Ver 9.5 | |

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

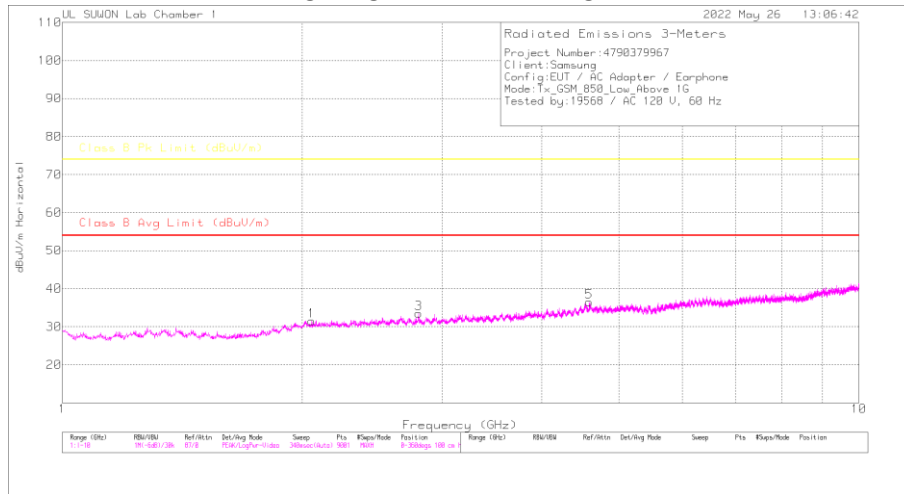
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| 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. | |

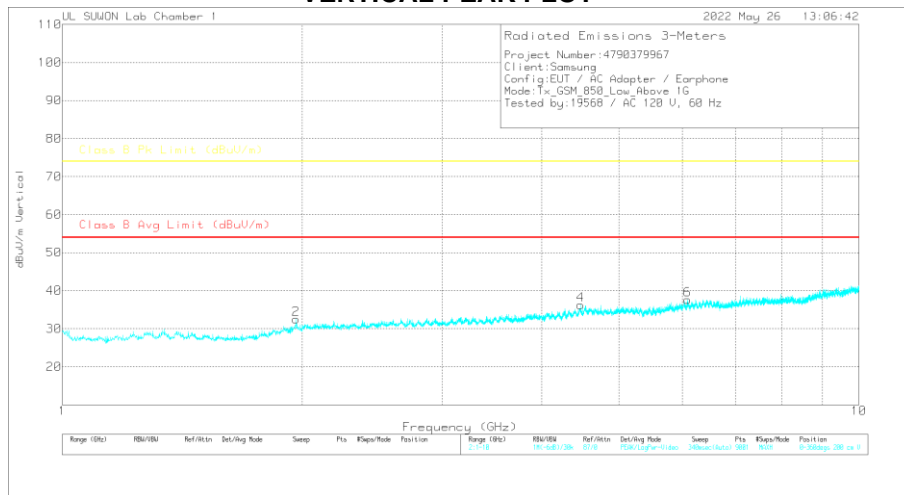
7.1.1. Above 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

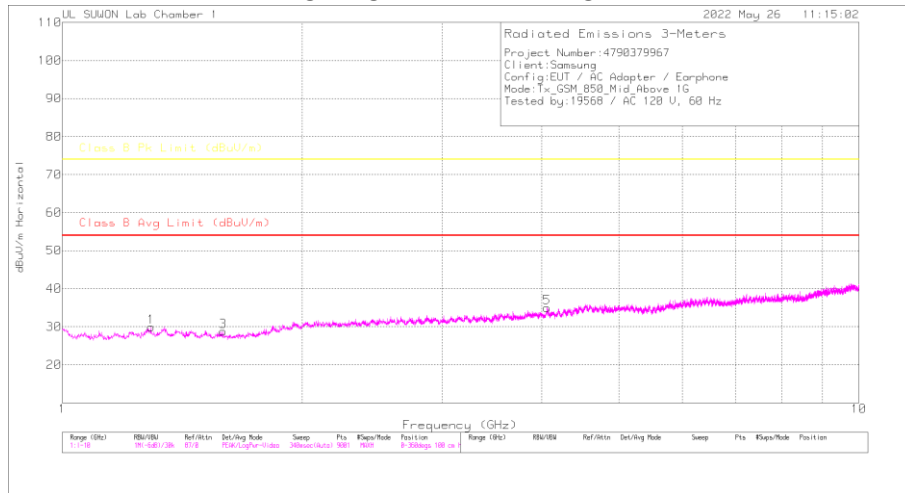
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Marg in (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degree) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|-------------|-------------|--------------------------|----------------------------|-----------------------|---------------------------|-------------|------------------|-------------|----------|
| 2.055 | 41.09 | Pk | 31.6 | -35.5 | .6 | 37.79 | - | - | 74 | -36.21 | 0 | 100 | H |
| 2.055 | 29.37 | Ca | 31.6 | -35.5 | .6 | 26.07 | 54 | -27.93 | - | - | 0 | 100 | H |
| 1.966 | 42.24 | Pk | 31.2 | -35.7 | .6 | 38.34 | - | - | 74 | -35.66 | 0 | 100 | V |
| 1.966 | 30.13 | Ca | 31.2 | -35.7 | .6 | 26.23 | 54 | -27.77 | - | - | 0 | 100 | V |
| 2.8 | 40.99 | Pk | 32.2 | -34.2 | .6 | 39.59 | - | - | 74 | -34.41 | 0 | 100 | H |
| 2.8 | 28.92 | Ca | 32.2 | -34.2 | .6 | 27.52 | 54 | -26.48 | - | - | 0 | 100 | H |
| 4.473 | 40.7 | Pk | 34.2 | -32.1 | .5 | 43.3 | - | - | 74 | -30.7 | 0 | 100 | V |
| 4.473 | 28.21 | Ca | 34.2 | -32.1 | .5 | 30.81 | 54 | -23.19 | - | - | 0 | 100 | V |
| 4.586 | 40.16 | Pk | 34.2 | -32 | .6 | 42.96 | - | - | 74 | -31.04 | 0 | 100 | H |
| 4.586 | 27.37 | Ca | 34.2 | -32 | .6 | 30.17 | 54 | -23.83 | - | - | 0 | 100 | H |
| 6.096 | 37.99 | Pk | 35.3 | -30.2 | .5 | 43.59 | - | - | 74 | -30.41 | 0 | 100 | V |
| 6.096 | 26.83 | Ca | 35.3 | -30.2 | .5 | 32.43 | 54 | -21.57 | - | - | 0 | 100 | V |

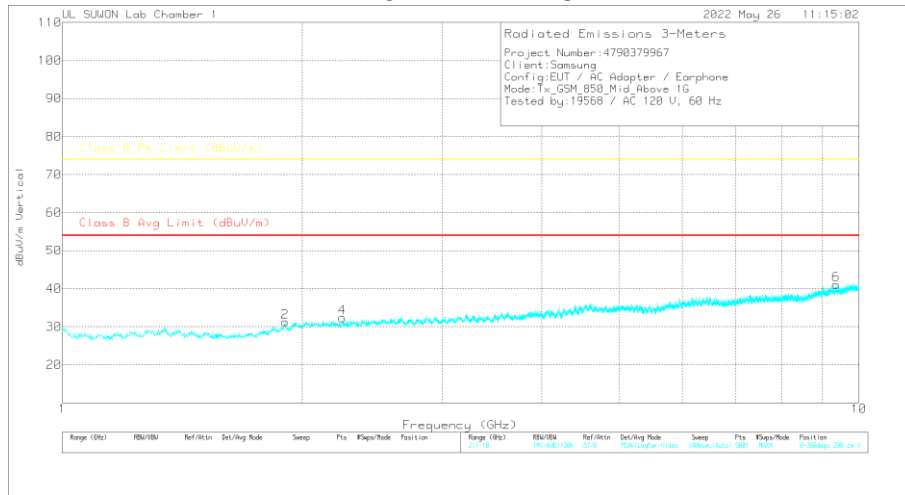
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

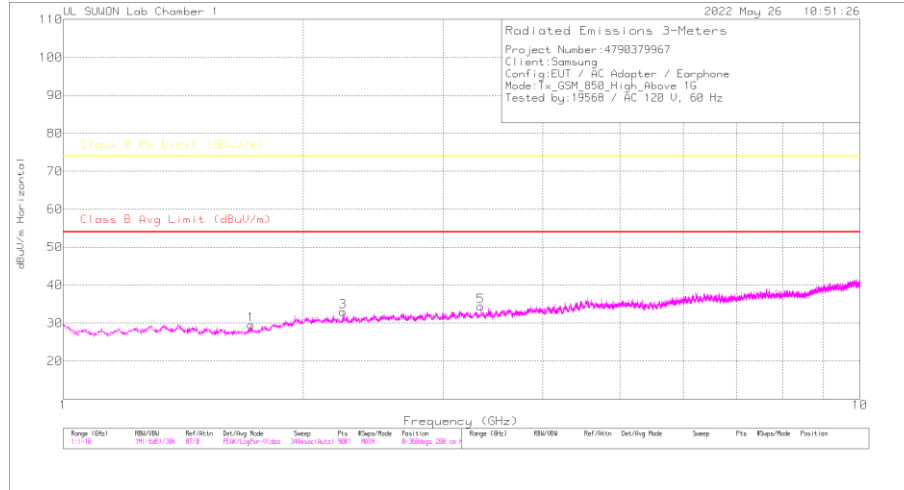
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Avi[CISPR]Marg in (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|------------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.293 | 43.37 | Pk | 29.4 | -37.2 | 1 | 36.57 | - | - | 74 | -37.43 | 0 | 100 | H |
| 1.293 | 31.11 | Ca | 29.4 | -37.2 | 1 | 24.31 | 54 | -29.69 | - | - | 0 | 100 | H |
| 1.904 | 42.03 | Pk | 30.7 | -35.8 | .6 | 37.53 | - | - | 74 | -36.47 | 0 | 100 | V |
| 1.904 | 30.22 | Ca | 30.7 | -35.8 | .6 | 25.72 | 54 | -28.28 | - | - | 0 | 100 | V |
| 1.593 | 42.72 | Pk | 28.5 | -36.5 | .7 | 35.42 | - | - | 74 | -38.58 | 0 | 100 | H |
| 1.593 | 30.63 | Ca | 28.5 | -36.5 | .7 | 23.33 | 54 | -30.67 | - | - | 0 | 100 | H |
| 2.248 | 41.26 | Pk | 31.5 | -35.4 | .6 | 37.96 | - | - | 74 | -36.04 | 0 | 100 | V |
| 2.248 | 29.64 | Ca | 31.5 | -35.4 | .6 | 26.34 | 54 | -27.66 | - | - | 0 | 100 | V |
| 4.059 | 40.08 | Pk | 33.5 | -32.4 | .6 | 41.78 | - | - | 74 | -32.22 | 0 | 100 | H |
| 4.059 | 28.22 | Ca | 33.5 | -32.4 | .6 | 29.92 | 54 | -24.08 | - | - | 0 | 100 | H |
| 9.367 | 34.5 | Pk | 36.8 | -24.5 | .8 | 47.6 | - | - | 74 | -26.4 | 0 | 100 | V |
| 9.367 | 22.85 | Ca | 36.8 | -24.5 | .8 | 35.95 | 54 | -18.05 | - | - | 0 | 100 | V |

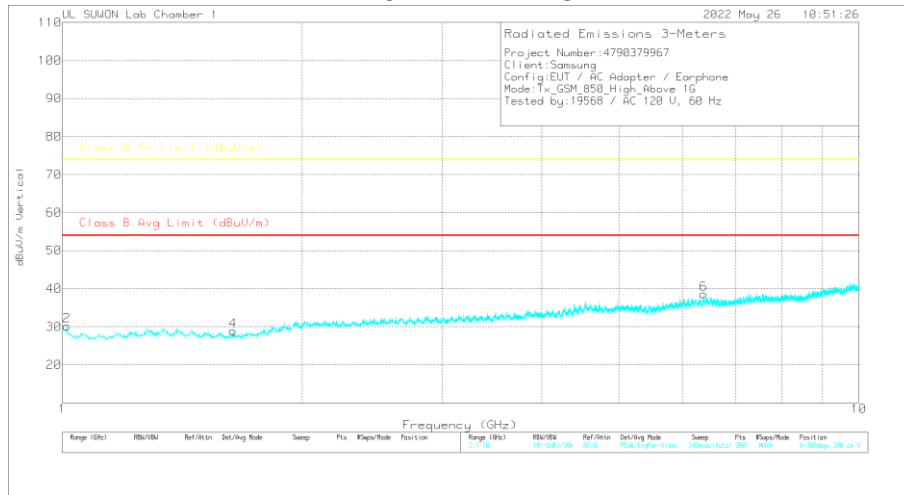
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

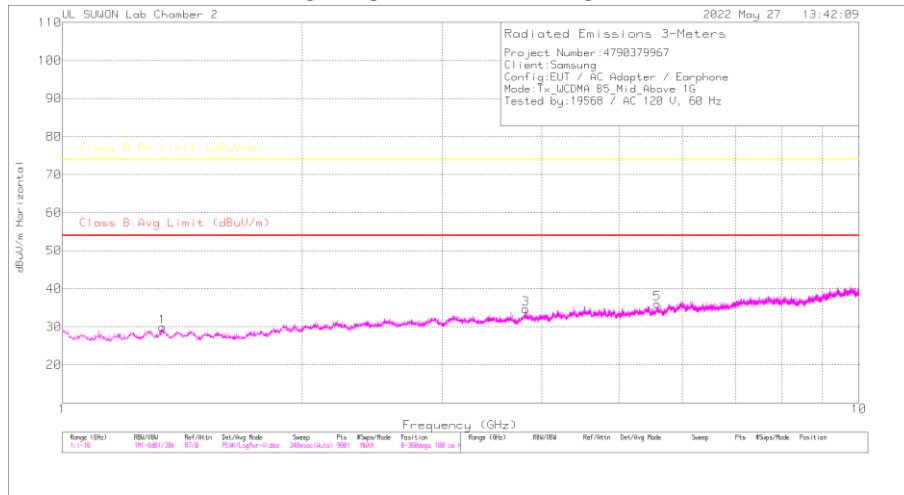
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Avi[CISPR]Marg in (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|------------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.721 | 42.42 | Pk | 28.8 | -36.3 | .6 | 35.52 | - | - | 74 | -38.48 | 0 | 100 | H |
| 1.721 | 30.73 | Ca | 28.8 | -36.3 | .6 | 23.83 | 54 | -30.17 | - | - | 0 | 100 | H |
| 1.014 | 43.6 | Pk | 28 | -37.8 | 2.5 | 36.3 | - | - | 74 | -37.7 | 0 | 100 | V |
| 1.014 | 31.87 | Ca | 28 | -37.8 | 2.5 | 24.57 | 54 | -29.43 | - | - | 0 | 100 | V |
| 2.243 | 41.81 | Pk | 31.5 | -35.4 | .6 | 38.51 | - | - | 74 | -35.49 | 0 | 100 | H |
| 2.243 | 29.64 | Ca | 31.5 | -35.4 | .6 | 26.34 | 54 | -27.66 | - | - | 0 | 100 | H |
| 1.638 | 43.53 | Pk | 28.4 | -36.4 | .7 | 36.23 | - | - | 74 | -37.77 | 0 | 100 | V |
| 1.638 | 30.64 | Ca | 28.4 | -36.4 | .7 | 23.34 | 54 | -30.66 | - | - | 0 | 100 | V |
| 3.343 | 40.39 | Pk | 32.6 | -33.7 | .6 | 39.89 | - | - | 74 | -34.11 | 0 | 100 | H |
| 3.343 | 28.39 | Ca | 32.6 | -33.7 | .6 | 27.89 | 54 | -26.11 | - | - | 0 | 100 | H |
| 6.383 | 38.25 | Pk | 35.5 | -29.7 | .5 | 44.55 | - | - | 74 | -29.45 | 0 | 100 | V |
| 6.383 | 26.29 | Ca | 35.5 | -29.7 | .5 | 32.59 | 54 | -21.41 | - | - | 0 | 100 | V |

Pk - Peak detector
 Ca - CISPR average detection

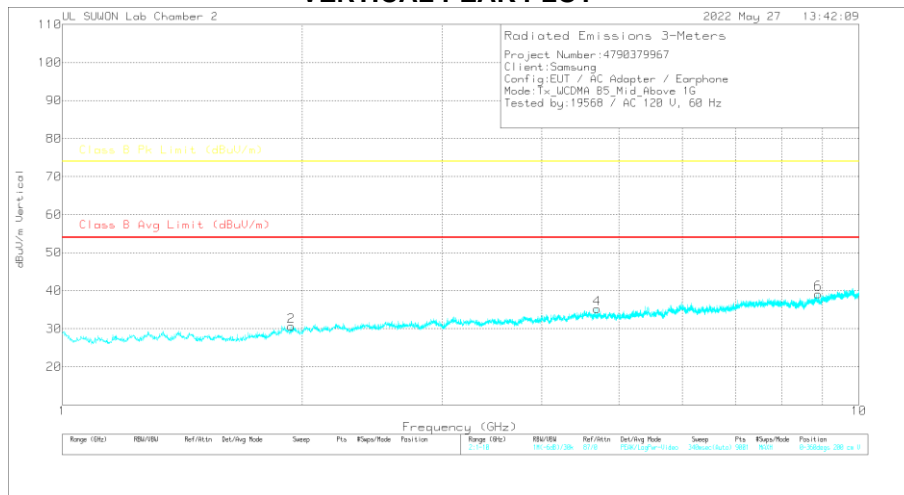
7.1.2. Above 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

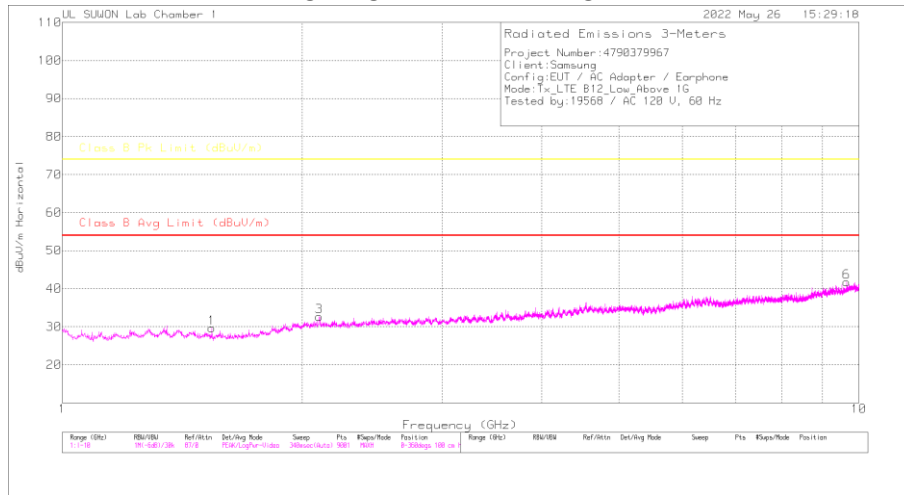
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 1-18GHz[dB] | 1GHz HPF[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|--------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.337 | 37.59 | Pk | 29.6 | -31.5 | .8 | 36.49 | - | - | 74 | -37.51 | 360 | 100 | H |
| 1.337 | 25.68 | Ca | 29.6 | -31.5 | .8 | 24.58 | 54 | -29.42 | - | - | 360 | 100 | H |
| 1.94 | 36.13 | Pk | 30.9 | -30.8 | .7 | 36.93 | - | - | 74 | -37.07 | 360 | 100 | V |
| 1.94 | 24.28 | Ca | 30.9 | -30.8 | .7 | 25.08 | 54 | -28.92 | - | - | 360 | 100 | V |
| 3.816 | 36.85 | Pk | 33.3 | -29.1 | .6 | 41.65 | - | - | 74 | -32.35 | 360 | 100 | H |
| 3.816 | 24.21 | Ca | 33.3 | -29.1 | .6 | 29.01 | 54 | -24.99 | - | - | 360 | 100 | H |
| 4.694 | 35.82 | Pk | 34.1 | -29 | .4 | 41.32 | - | - | 74 | -32.68 | 360 | 100 | V |
| 4.694 | 23.99 | Ca | 34.1 | -29 | .4 | 29.49 | 54 | -24.51 | - | - | 360 | 100 | V |
| 5.584 | 35.31 | Pk | 34.6 | -27.8 | .5 | 42.61 | - | - | 74 | -31.39 | 360 | 100 | H |
| 5.584 | 23.43 | Ca | 34.6 | -27.8 | .5 | 30.73 | 54 | -23.27 | - | - | 360 | 100 | H |
| 8.888 | 32.8 | Pk | 36.4 | -23.3 | .6 | 46.5 | - | - | 74 | -27.5 | 360 | 100 | V |
| 8.888 | 20.94 | Ca | 36.4 | -23.3 | .6 | 34.64 | 54 | -19.36 | - | - | 360 | 100 | V |

PK - Peak detector
 Ca - CISPR average detection

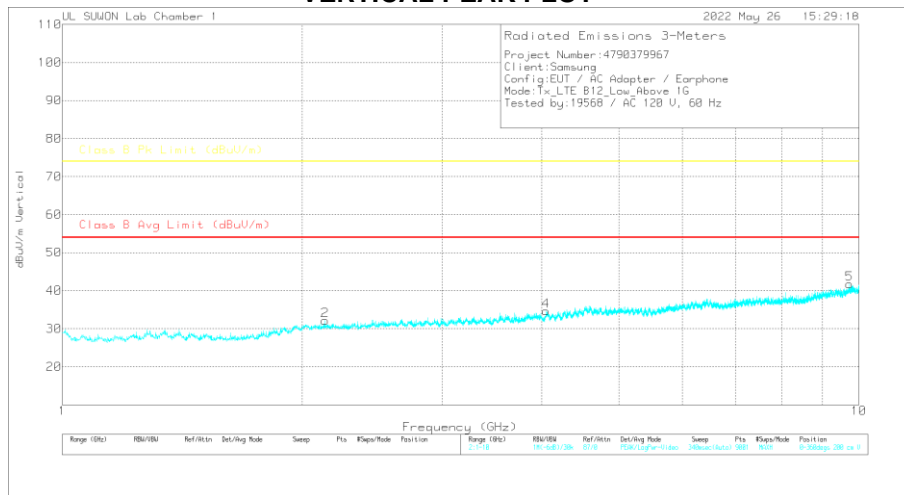
7.1.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

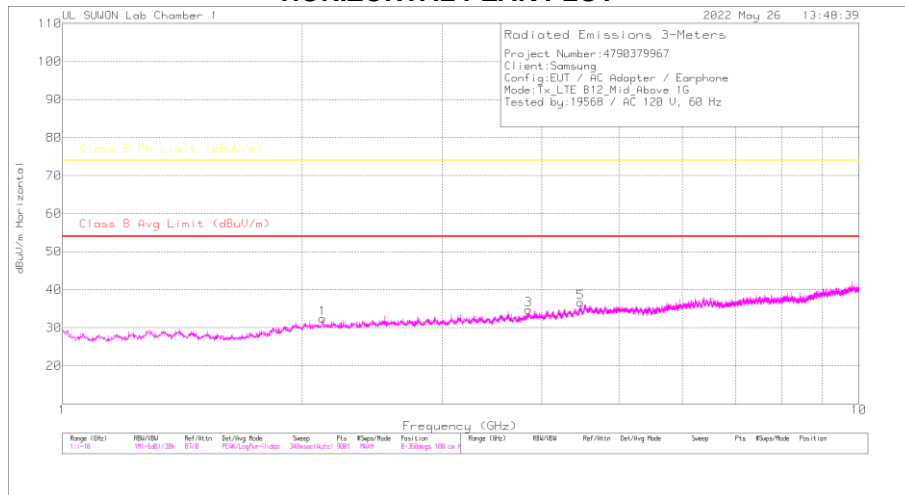
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Avi(CISPR)Marg in (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|------------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.541 | 42.23 | Pk | 28.6 | -36.6 | .7 | 34.93 | - | - | 74 | -39.07 | 0 | 100 | H |
| 1.541 | 30.24 | Ca | 28.6 | -36.6 | .7 | 22.94 | 54 | -31.06 | - | - | 0 | 100 | H |
| 2.138 | 41.7 | Pk | 31.6 | -35.3 | .6 | 38.6 | - | - | 74 | -35.4 | 0 | 100 | V |
| 2.138 | 29.59 | Ca | 31.6 | -35.3 | .6 | 26.49 | 54 | -27.51 | - | - | 0 | 100 | V |
| 2.103 | 41.53 | Pk | 31.6 | -35.4 | .6 | 38.33 | - | - | 74 | -35.67 | 0 | 100 | H |
| 2.103 | 29.56 | Ca | 31.6 | -35.4 | .6 | 26.36 | 54 | -27.64 | - | - | 0 | 100 | H |
| 4.048 | 39.99 | Pk | 33.5 | -32.4 | .6 | 41.69 | - | - | 74 | -32.31 | 0 | 100 | V |
| 4.048 | 27.7 | Ca | 33.5 | -32.4 | .6 | 29.4 | 54 | -24.6 | - | - | 0 | 100 | V |
| 9.647 | 35.08 | Pk | 37.2 | -24.1 | .7 | 48.88 | - | - | 74 | -25.12 | 0 | 100 | H |
| 9.647 | 22.56 | Ca | 37.2 | -24.1 | .7 | 36.36 | 54 | -17.64 | - | - | 0 | 100 | H |
| 9.733 | 35.52 | Pk | 37.4 | -24.1 | .8 | 49.62 | - | - | 74 | -24.38 | 0 | 100 | V |
| 9.733 | 22.24 | Ca | 37.4 | -24.1 | .8 | 36.34 | 54 | -17.66 | - | - | 0 | 100 | V |

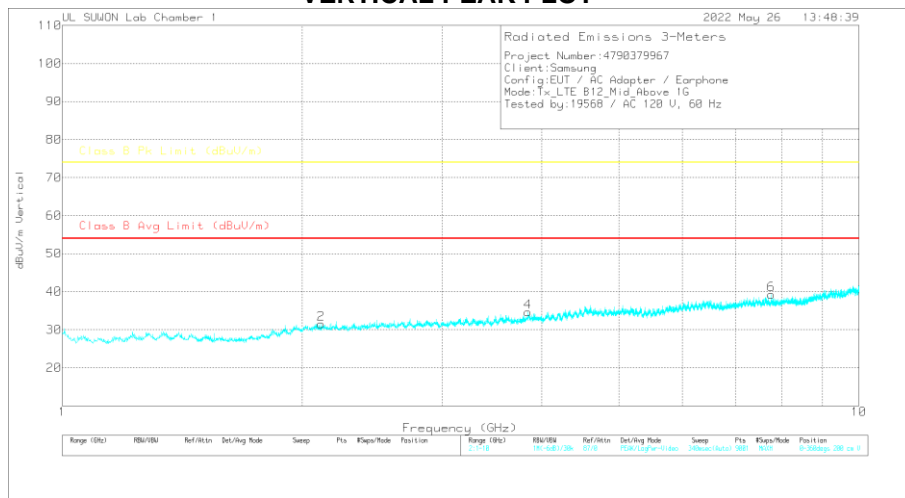
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

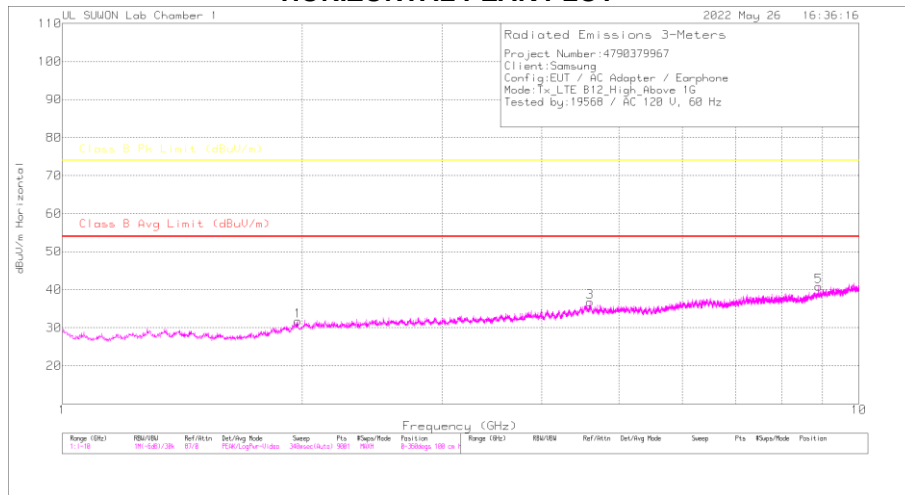
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[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 |
|-----------------|----------------------|-----|----------------|-------------|-------------|----------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 2.121 | 41.44 | Pk | 31.6 | -35.3 | .6 | 38.34 | - | - | 74 | -35.66 | 0 | 100 | H |
| 2.121 | 29.49 | Ca | 31.6 | -35.3 | .6 | 26.39 | 54 | -27.61 | - | - | 0 | 100 | H |
| 2.114 | 41.41 | Pk | 31.6 | -35.3 | .6 | 38.31 | - | - | 74 | -35.69 | 0 | 100 | V |
| 2.114 | 29.28 | Ca | 31.6 | -35.3 | .6 | 26.18 | 54 | -27.82 | - | - | 0 | 100 | V |
| 3.849 | 40.88 | Pk | 33.2 | -32.8 | .7 | 41.98 | - | - | 74 | -32.02 | 0 | 100 | H |
| 3.849 | 28.44 | Ca | 33.2 | -32.8 | .7 | 29.54 | 54 | -24.46 | - | - | 0 | 100 | H |
| 3.842 | 40.87 | Pk | 33.2 | -32.9 | .7 | 41.87 | - | - | 74 | -32.13 | 0 | 100 | V |
| 3.842 | 28.42 | Ca | 33.2 | -32.9 | .7 | 29.42 | 54 | -24.58 | - | - | 0 | 100 | V |
| 4.471 | 40.57 | Pk | 34.2 | -32.1 | .5 | 43.17 | - | - | 74 | -30.83 | 0 | 100 | H |
| 4.471 | 28.34 | Ca | 34.2 | -32.1 | .5 | 30.94 | 54 | -23.06 | - | - | 0 | 100 | H |
| 7.763 | 36.44 | Pk | 35.8 | -27.1 | .5 | 45.64 | - | - | 74 | -28.36 | 0 | 100 | V |
| 7.763 | 24.38 | Ca | 35.8 | -27.1 | .5 | 33.58 | 54 | -20.42 | - | - | 0 | 100 | V |

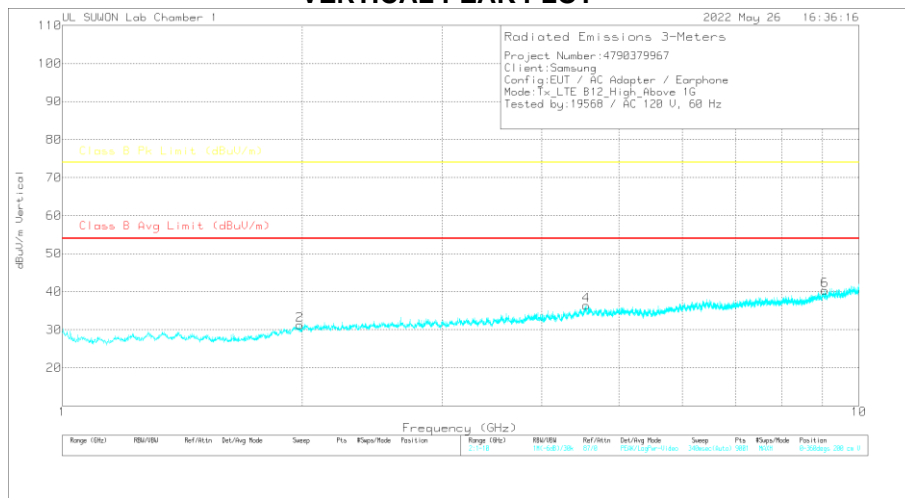
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

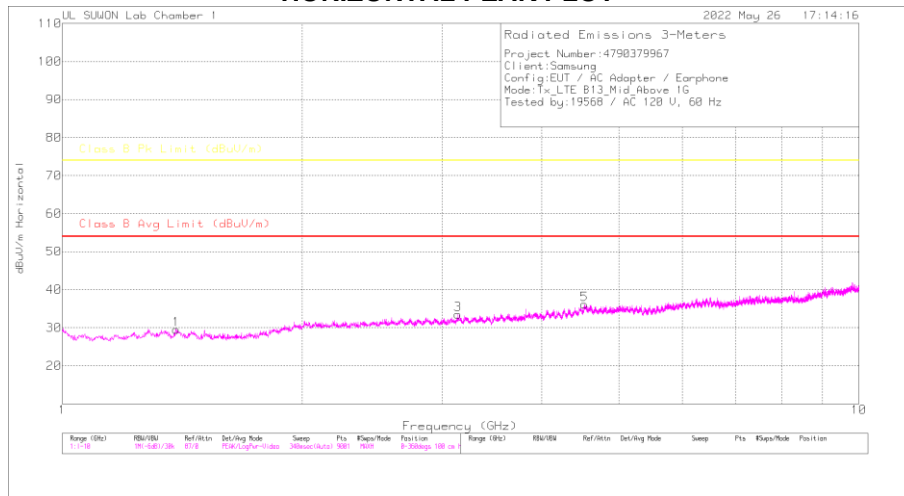
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading (dBuV/m) | Class B Avg Limit (dBuV/m) | Av(CISPR) Marg in (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|----------------------------|----------------------------|------------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.975 | 42.01 | Pk | 31.3 | -35.7 | .6 | 38.21 | - | - | 74 | -35.79 | 360 | 100 | H |
| 1.975 | 29.82 | Ca | 31.3 | -35.7 | .6 | 26.02 | 54 | -27.98 | - | - | 360 | 100 | H |
| 1.988 | 42.39 | Pk | 31.3 | -35.7 | .6 | 38.59 | - | - | 74 | -35.41 | 360 | 100 | V |
| 1.988 | 29.5 | Ca | 31.3 | -35.7 | .6 | 25.7 | 54 | -28.3 | - | - | 360 | 100 | V |
| 4.596 | 39.58 | Pk | 34.2 | -32 | .5 | 42.28 | - | - | 74 | -31.72 | 360 | 100 | H |
| 4.596 | 27.7 | Ca | 34.2 | -32 | .5 | 30.4 | 54 | -23.6 | - | - | 360 | 100 | H |
| 4.548 | 39.16 | Pk | 34.2 | -32.1 | .6 | 41.86 | - | - | 74 | -32.14 | 360 | 100 | V |
| 4.548 | 27.63 | Ca | 34.2 | -32.1 | .6 | 30.33 | 54 | -23.67 | - | - | 360 | 100 | V |
| 8.902 | 35.24 | Pk | 36.5 | -25.2 | .6 | 47.14 | - | - | 74 | -26.86 | 360 | 100 | H |
| 8.902 | 23.1 | Ca | 36.5 | -25.2 | .6 | 35 | 54 | -19 | - | - | 360 | 100 | H |
| 9.064 | 34.68 | Pk | 36.6 | -24.9 | .7 | 47.08 | - | - | 74 | -26.92 | 360 | 100 | V |
| 9.064 | 22.88 | Ca | 36.6 | -24.9 | .7 | 35.28 | 54 | -18.72 | - | - | 360 | 100 | V |

Pk - Peak detector
 Ca - CISPR average detection

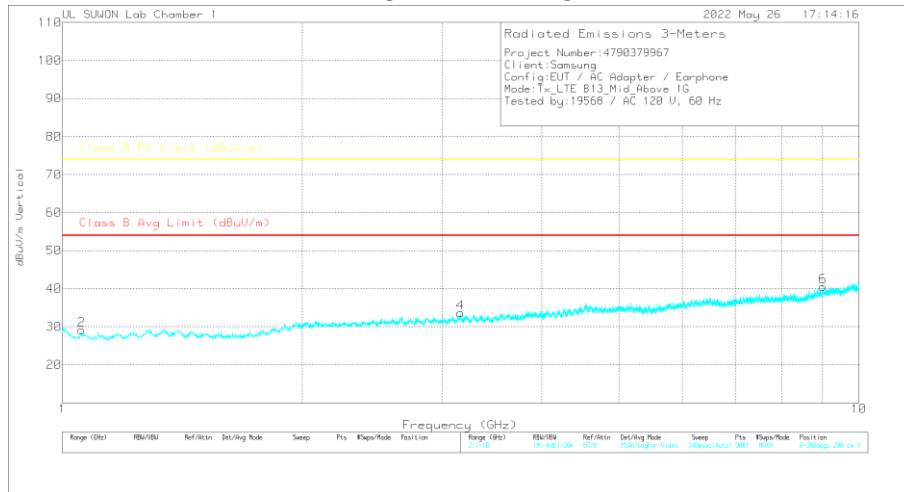
7.1.4. Above 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

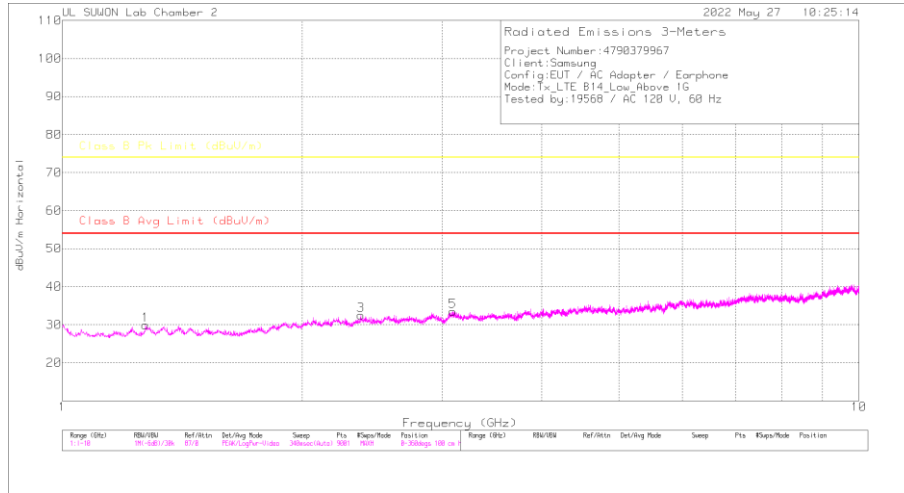
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av[CISPR]Marg in (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|-----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.391 | 43.91 | Pk | 29.4 | -36.9 | .8 | 37.21 | - | - | 74 | -36.79 | 0 | 100 | H |
| 1.391 | 31.06 | Ca | 29.4 | -36.9 | .8 | 24.36 | 54 | -29.64 | - | - | 0 | 100 | H |
| 1.057 | 44.57 | Pk | 27.6 | -37.6 | 1.9 | 36.47 | - | - | 74 | -37.53 | 0 | 100 | V |
| 1.057 | 31.81 | Ca | 27.6 | -37.6 | 1.9 | 23.71 | 54 | -30.29 | - | - | 0 | 100 | V |
| 3.139 | 40.19 | Pk | 32.7 | -33.7 | .6 | 39.79 | - | - | 74 | -34.21 | 0 | 100 | H |
| 3.139 | 28.36 | Ca | 32.7 | -33.7 | .6 | 27.96 | 54 | -26.04 | - | - | 0 | 100 | H |
| 3.162 | 40.99 | Pk | 32.7 | -33.8 | .6 | 40.49 | - | - | 74 | -33.51 | 0 | 100 | V |
| 3.162 | 28.38 | Ca | 32.7 | -33.8 | .6 | 27.88 | 54 | -26.12 | - | - | 0 | 100 | V |
| 4.525 | 39.25 | Pk | 34.2 | -32 | .6 | 42.05 | - | - | 74 | -31.95 | 0 | 100 | H |
| 4.525 | 27.71 | Ca | 34.2 | -32 | .6 | 30.51 | 54 | -23.49 | - | - | 0 | 100 | H |
| 9.017 | 34.9 | Pk | 36.6 | -24.9 | .7 | 47.3 | - | - | 74 | -26.7 | 0 | 100 | V |
| 9.017 | 23.4 | Ca | 36.6 | -24.9 | .7 | 35.8 | 54 | -18.2 | - | - | 0 | 100 | V |

Pk - Peak detector
 Ca - CISPR average detection

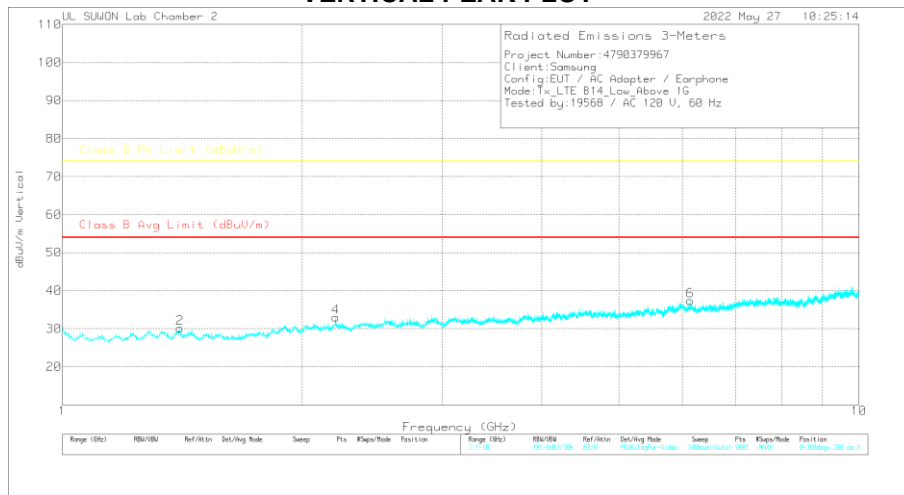
7.1.5. Above 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

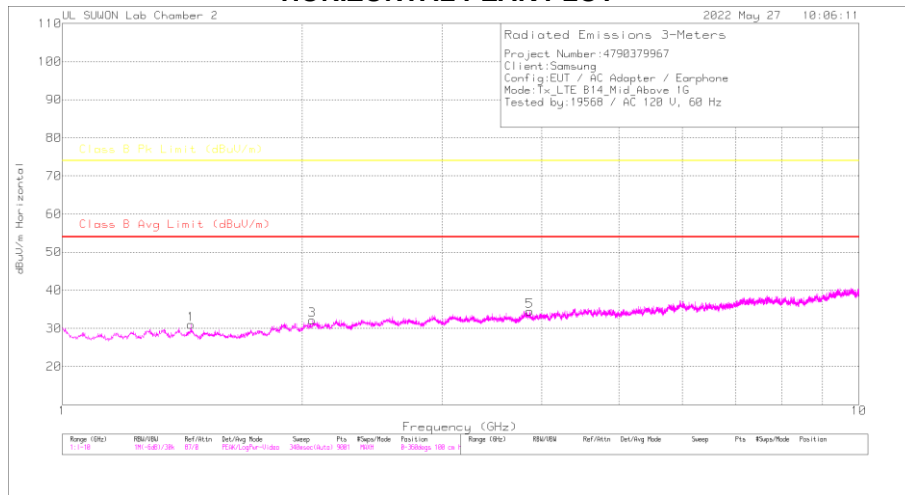
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872_4 | 1-18GHz[dB] | 1GHz HPF[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 |
|-----------------|----------------------|-----|----------------|-------------|--------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.272 | 37.75 | Pk | 29.3 | -31.7 | .9 | 36.25 | - | - | 74 | -37.75 | 0 | 100 | H |
| 1.272 | 25.57 | Ca | 29.3 | -31.7 | .9 | 24.07 | 54 | -29.93 | - | - | 0 | 100 | H |
| 1.406 | 37.44 | Pk | 29.4 | -31.5 | .8 | 36.14 | - | - | 74 | -37.86 | 0 | 100 | V |
| 1.406 | 25.73 | Ca | 29.4 | -31.5 | .8 | 24.43 | 54 | -29.57 | - | - | 0 | 100 | V |
| 2.371 | 36.85 | Pk | 31.8 | -30.5 | .8 | 38.95 | - | - | 74 | -35.05 | 0 | 100 | H |
| 2.371 | 24.85 | Ca | 31.8 | -30.5 | .8 | 26.95 | 54 | -27.05 | - | - | 0 | 100 | H |
| 2.204 | 36.47 | Pk | 31.7 | -30.4 | .8 | 38.57 | - | - | 74 | -35.43 | 0 | 100 | V |
| 2.204 | 24.74 | Ca | 31.7 | -30.4 | .8 | 26.84 | 54 | -27.16 | - | - | 0 | 100 | V |
| 3.09 | 35.91 | Pk | 32.9 | -29.8 | .6 | 39.61 | - | - | 74 | -34.39 | 0 | 100 | H |
| 3.09 | 24.6 | Ca | 32.9 | -29.8 | .6 | 28.3 | 54 | -25.7 | - | - | 0 | 100 | H |
| 6.144 | 35.71 | Pk | 35.3 | -26.7 | .4 | 44.71 | - | - | 74 | -29.29 | 0 | 100 | V |
| 6.144 | 23.21 | Ca | 35.3 | -26.7 | .4 | 32.21 | 54 | -21.79 | - | - | 0 | 100 | V |

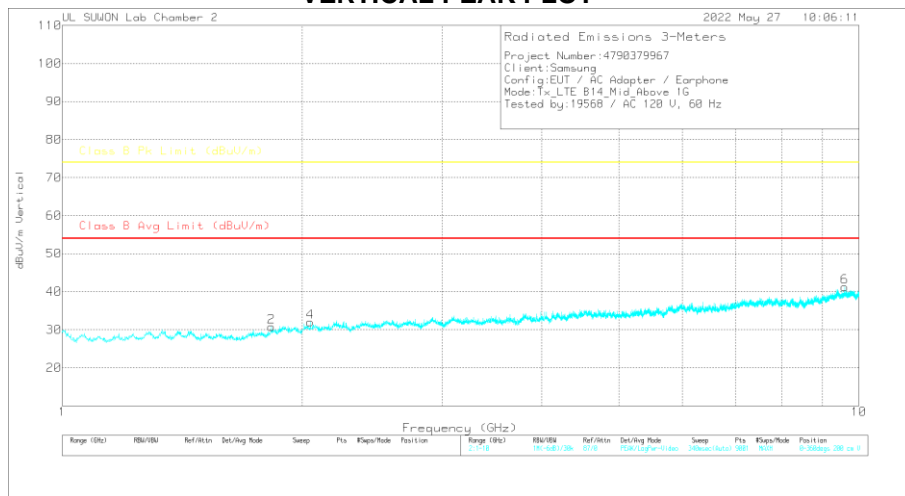
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(763.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

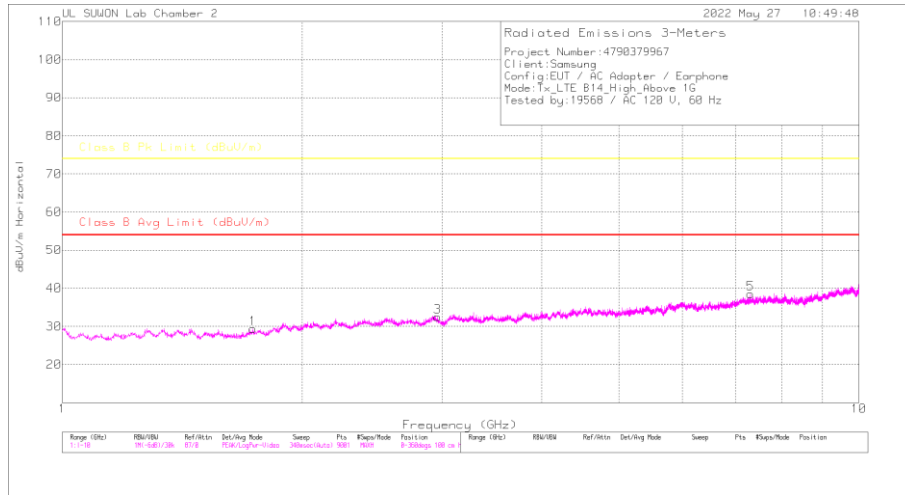
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872 4 | 1-18GHz[dB] | 1GHz HPF[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 |
|-----------------|----------------------|-----|----------------|-------------|--------------|----------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.45 | 38.88 | Pk | 29.2 | -31.3 | .8 | 37.58 | - | - | 74 | -36.42 | 0 | 100 | H |
| 1.45 | 26.1 | Ca | 29.2 | -31.3 | .8 | 24.8 | 54 | -29.2 | - | - | 0 | 100 | H |
| 1.831 | 37.4 | Pk | 30.1 | -30.8 | .6 | 37.3 | - | - | 74 | -36.7 | 0 | 100 | V |
| 1.831 | 25.22 | Ca | 30.1 | -30.8 | .6 | 25.12 | 54 | -28.88 | - | - | 0 | 100 | V |
| 2.059 | 36.97 | Pk | 31.5 | -30.5 | .5 | 38.47 | - | - | 74 | -35.53 | 0 | 100 | H |
| 2.059 | 24.77 | Ca | 31.5 | -30.5 | .5 | 26.27 | 54 | -27.73 | - | - | 0 | 100 | H |
| 2.048 | 36.6 | Pk | 31.4 | -30.5 | .5 | 38 | - | - | 74 | -36 | 0 | 100 | V |
| 2.048 | 24.6 | Ca | 31.4 | -30.5 | .5 | 26 | 54 | -28 | - | - | 0 | 100 | V |
| 3.861 | 38.04 | Pk | 33.4 | -29.2 | .6 | 42.84 | - | - | 74 | -31.16 | 0 | 100 | H |
| 3.861 | 24.45 | Ca | 33.4 | -29.2 | .6 | 29.25 | 54 | -24.75 | - | - | 0 | 100 | H |
| 9.599 | 32.82 | Pk | 37 | -22.5 | .7 | 48.02 | - | - | 74 | -25.98 | 0 | 100 | V |
| 9.599 | 20.84 | Ca | 37 | -22.5 | .7 | 36.04 | 54 | -17.96 | - | - | 0 | 100 | V |

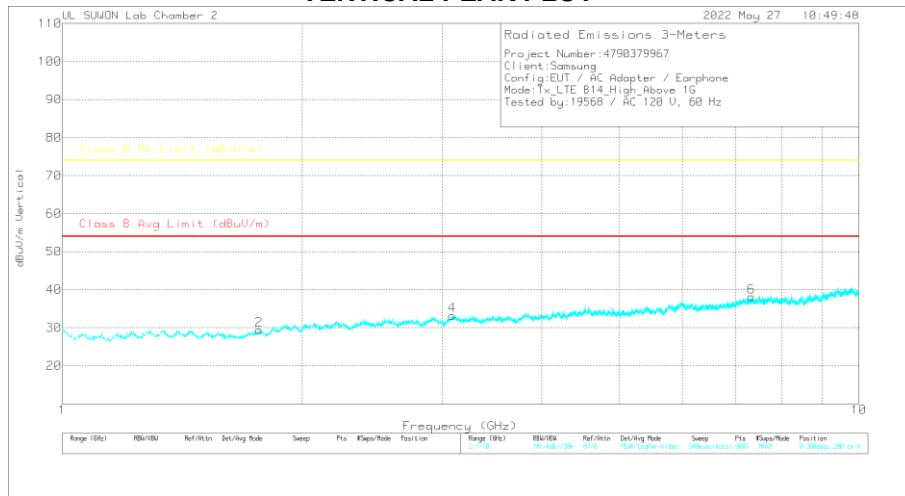
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

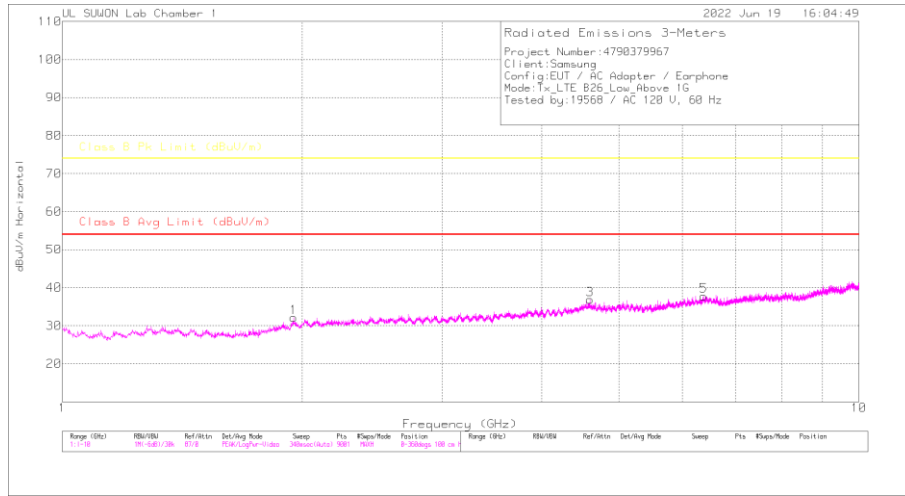
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016872 4 | 1-18GHz[dB] | 1GHz HPF[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|--------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.735 | 36.96 | Pk | 29 | -31 | .7 | 35.66 | - | - | 74 | -38.34 | 0 | 100 | H |
| 1.735 | 25.24 | Ca | 29 | -31 | .7 | 23.94 | 54 | -30.06 | - | - | 0 | 100 | H |
| 1.767 | 37.52 | Pk | 29.4 | -31 | .7 | 36.62 | - | - | 74 | -37.38 | 0 | 100 | V |
| 1.767 | 25.23 | Ca | 29.4 | -31 | .7 | 24.33 | 54 | -29.67 | - | - | 0 | 100 | V |
| 2.96 | 36.15 | Pk | 32.5 | -30.2 | .7 | 39.15 | - | - | 74 | -34.85 | 0 | 100 | H |
| 2.96 | 24.2 | Ca | 32.5 | -30.2 | .7 | 27.2 | 54 | -26.8 | - | - | 0 | 100 | H |
| 3.086 | 36.6 | Pk | 32.8 | -29.8 | .6 | 40.2 | - | - | 74 | -33.8 | 0 | 100 | V |
| 3.086 | 24.44 | Ca | 32.8 | -29.8 | .6 | 28.04 | 54 | -25.96 | - | - | 0 | 100 | V |
| 7.313 | 34.57 | Pk | 36.1 | -25.9 | .4 | 45.17 | - | - | 74 | -28.83 | 0 | 100 | H |
| 7.313 | 22.77 | Ca | 36.1 | -25.9 | .4 | 33.37 | 54 | -20.63 | - | - | 0 | 100 | H |
| 7.327 | 34.14 | Pk | 36.1 | -25.8 | .4 | 44.84 | - | - | 74 | -29.16 | 0 | 100 | V |
| 7.327 | 22.63 | Ca | 36.1 | -25.8 | .4 | 33.33 | 54 | -20.67 | - | - | 0 | 100 | V |

Pk - Peak detector
 Ca - CISPR average detection

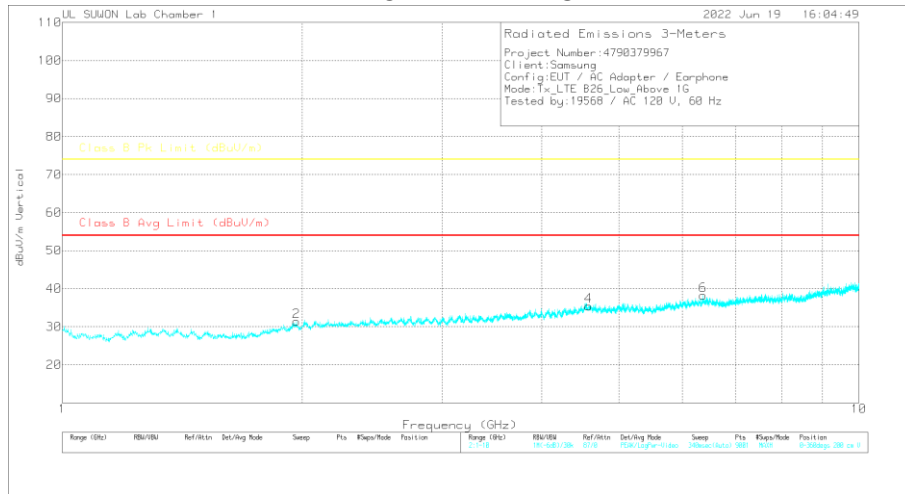
7.1.6. Above 1GHz in the LTE Band 26

LOW CHANNEL(866.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

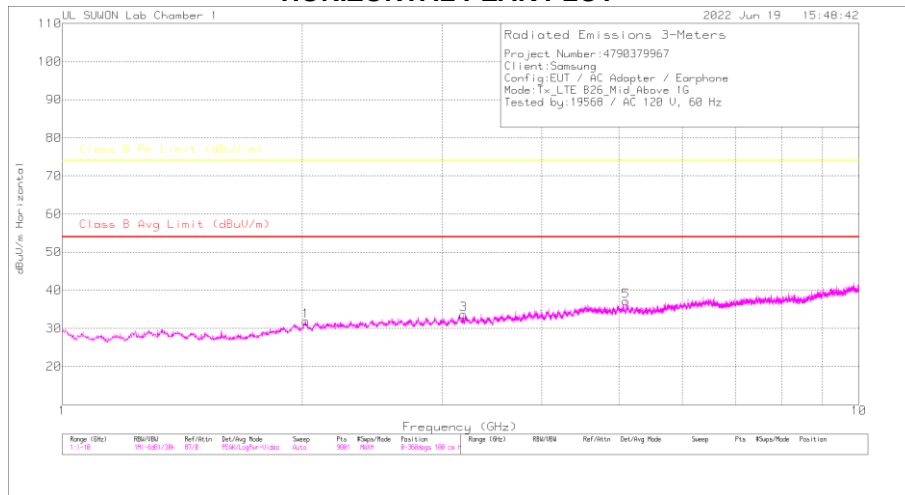
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[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 |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.952 | 43.16 | Pk | 31.1 | -35.8 | .6 | 39.06 | - | - | 74 | -34.94 | 360 | 100 | H |
| 1.952 | 30.34 | Ca | 31.1 | -35.8 | .6 | 26.24 | 54 | -27.76 | - | - | 360 | 100 | H |
| 1.968 | 42.05 | Pk | 31.2 | -35.7 | .6 | 38.15 | - | - | 74 | -35.85 | 360 | 100 | V |
| 1.968 | 29.88 | Ca | 31.2 | -35.7 | .6 | 25.98 | 54 | -28.02 | - | - | 360 | 100 | V |
| 4.598 | 40.58 | Pk | 34.2 | -31.9 | .5 | 43.38 | - | - | 74 | -30.62 | 360 | 100 | H |
| 4.598 | 27.61 | Ca | 34.2 | -31.9 | .5 | 30.41 | 54 | -23.59 | - | - | 360 | 100 | H |
| 4.576 | 39.79 | Pk | 34.2 | -32 | .6 | 42.59 | - | - | 74 | -31.41 | 360 | 100 | V |
| 4.576 | 27.51 | Ca | 34.2 | -32 | .6 | 30.31 | 54 | -23.69 | - | - | 360 | 100 | V |
| 6.383 | 38.56 | Pk | 35.5 | -29.7 | .5 | 44.86 | - | - | 74 | -29.14 | 360 | 100 | H |
| 6.383 | 26.11 | Ca | 35.5 | -29.7 | .5 | 32.41 | 54 | -21.59 | - | - | 360 | 100 | H |
| 6.379 | 38.41 | Pk | 35.5 | -29.7 | .5 | 44.71 | - | - | 74 | -29.29 | 360 | 100 | V |
| 6.379 | 26.11 | Ca | 35.5 | -29.7 | .5 | 32.41 | 54 | -21.59 | - | - | 360 | 100 | V |

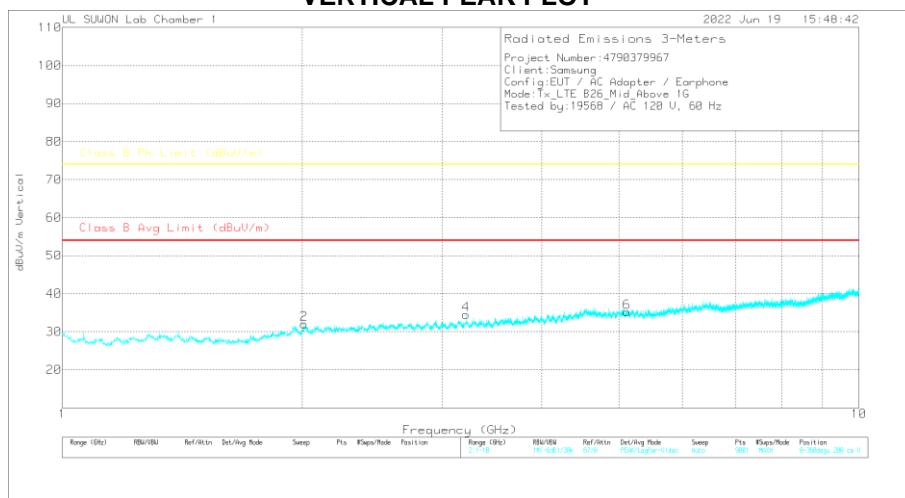
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

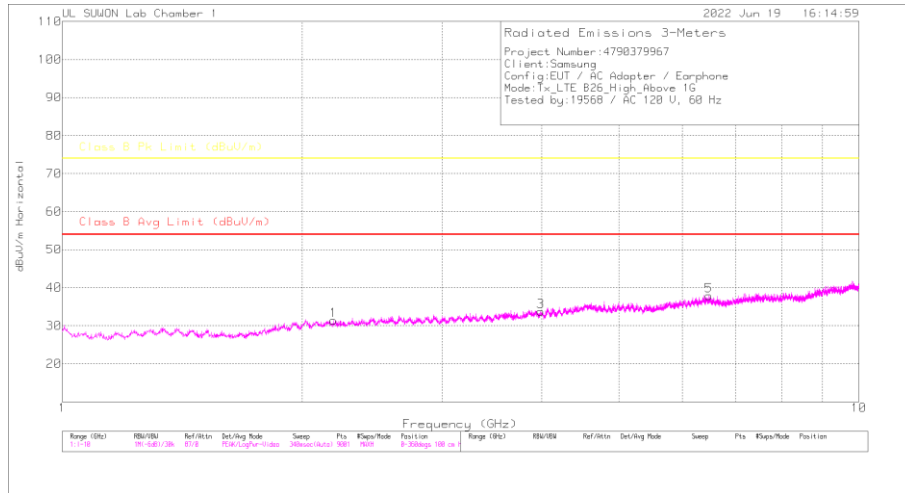
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[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 |
|-----------------|----------------------|-----|----------------|-------------|-------------|----------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 2.022 | 43.01 | Pk | 31.5 | -35.6 | .6 | 39.51 | - | - | 74 | -34.49 | 0 | 100 | H |
| 2.022 | 30.23 | Ca | 31.5 | -35.6 | .6 | 26.73 | 54 | -27.27 | - | - | 0 | 100 | H |
| 2.013 | 42.25 | Pk | 31.5 | -35.6 | .6 | 38.75 | - | - | 74 | -35.25 | 0 | 100 | V |
| 2.013 | 30.11 | Ca | 31.5 | -35.6 | .6 | 26.61 | 54 | -27.39 | - | - | 0 | 100 | V |
| 3.191 | 40.16 | Pk | 32.7 | -33.8 | .6 | 39.66 | - | - | 74 | -34.34 | 0 | 100 | H |
| 3.191 | 27.81 | Ca | 32.7 | -33.8 | .6 | 27.31 | 54 | -26.69 | - | - | 0 | 100 | H |
| 3.213 | 40.14 | Pk | 32.7 | -33.7 | .6 | 39.74 | - | - | 74 | -34.26 | 0 | 100 | V |
| 3.213 | 28.52 | Ca | 32.7 | -33.7 | .6 | 28.12 | 54 | -25.88 | - | - | 0 | 100 | V |
| 5.104 | 39.37 | Pk | 34.2 | -31.6 | .5 | 42.47 | - | - | 74 | -31.53 | 0 | 100 | H |
| 5.104 | 27.55 | Ca | 34.2 | -31.6 | .5 | 30.65 | 54 | -23.35 | - | - | 0 | 100 | H |
| 5.113 | 39.66 | Pk | 34.3 | -31.6 | .5 | 42.86 | - | - | 74 | -31.14 | 0 | 100 | V |
| 5.113 | 27.82 | Ca | 34.3 | -31.6 | .5 | 31.02 | 54 | -22.98 | - | - | 0 | 100 | V |

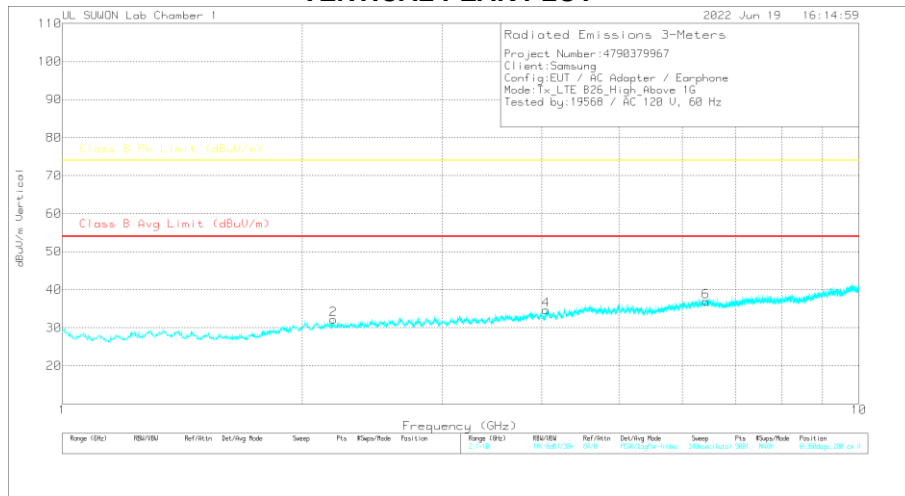
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(886.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

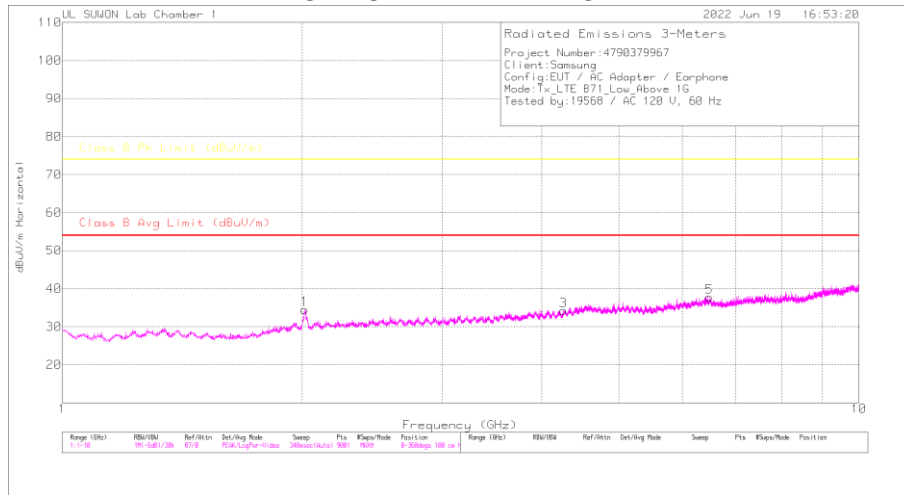
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 2.191 | 41.09 | Pk | 31.5 | -35.4 | .6 | 37.79 | - | - | 74 | -36.21 | 360 | 100 | H |
| 2.191 | 29.43 | Ca | 31.5 | -35.4 | .6 | 26.13 | 54 | -27.87 | - | - | 360 | 100 | H |
| 2.189 | 41.3 | Pk | 31.5 | -35.4 | .6 | 38 | - | - | 74 | -36 | 360 | 100 | V |
| 2.189 | 29.41 | Ca | 31.5 | -35.4 | .6 | 26.11 | 54 | -27.89 | - | - | 360 | 100 | V |
| 3.895 | 39.87 | Pk | 33.3 | -32.7 | .6 | 41.07 | - | - | 74 | -32.93 | 360 | 100 | H |
| 3.895 | 27.37 | Ca | 33.3 | -32.7 | .6 | 28.57 | 54 | -25.43 | - | - | 360 | 100 | H |
| 4.049 | 40.07 | Pk | 33.5 | -32.4 | .6 | 41.77 | - | - | 74 | -32.23 | 360 | 100 | V |
| 4.049 | 27.61 | Ca | 33.5 | -32.4 | .6 | 29.31 | 54 | -24.69 | - | - | 360 | 100 | V |
| 6.482 | 37.7 | Pk | 35.5 | -29.5 | .6 | 44.3 | - | - | 74 | -29.7 | 360 | 100 | H |
| 6.482 | 25.84 | Ca | 35.5 | -29.5 | .6 | 32.44 | 54 | -21.56 | - | - | 360 | 100 | H |
| 6.431 | 38.23 | Pk | 35.5 | -29.6 | .6 | 44.73 | - | - | 74 | -29.27 | 360 | 100 | V |
| 6.431 | 26.17 | Ca | 35.5 | -29.6 | .6 | 32.67 | 54 | -21.33 | - | - | 360 | 100 | V |

Pk - Peak detector
 Ca - CISPR average detection

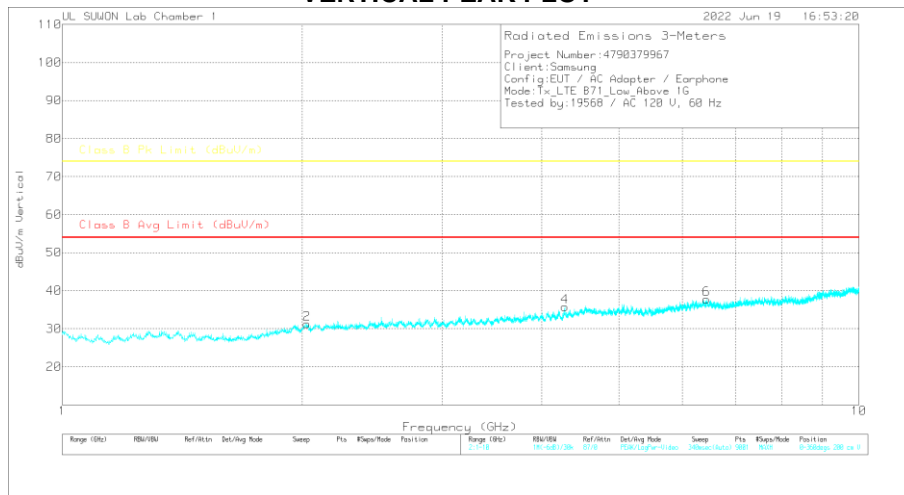
7.1.7. Above 1 GHz in the LTE Band 71

LOW CHANNEL(624.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

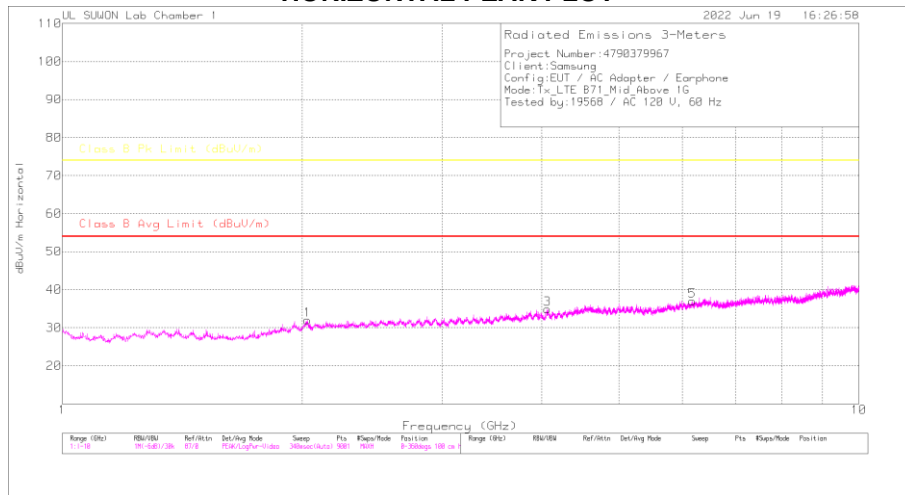
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[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 |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 2.014 | 45.86 | Pk | 31.5 | -35.6 | .6 | 42.36 | - | - | 74 | -31.64 | 210 | 106 | H |
| 2.014 | 33.85 | Ca | 31.5 | -35.6 | .6 | 30.35 | 54 | -23.65 | - | - | 210 | 106 | H |
| 2.029 | 41.72 | Pk | 31.5 | -35.6 | .6 | 38.22 | - | - | 74 | -35.78 | 253 | 165 | V |
| 2.029 | 29.98 | Ca | 31.5 | -35.6 | .6 | 26.48 | 54 | -27.52 | - | - | 253 | 165 | V |
| 4.258 | 40.78 | Pk | 33.7 | -32.4 | .7 | 42.78 | - | - | 74 | -31.22 | 360 | 100 | H |
| 4.258 | 28.26 | Ca | 33.7 | -32.4 | .7 | 30.26 | 54 | -23.74 | - | - | 360 | 100 | H |
| 4.273 | 40.84 | Pk | 33.7 | -32.4 | .7 | 42.84 | - | - | 74 | -31.16 | 360 | 100 | V |
| 4.273 | 28.58 | Ca | 33.7 | -32.4 | .7 | 30.58 | 54 | -23.42 | - | - | 360 | 100 | V |
| 6.491 | 37.79 | Pk | 35.4 | -29.4 | .6 | 44.39 | - | - | 74 | -29.61 | 360 | 100 | H |
| 6.491 | 25.96 | Ca | 35.4 | -29.4 | .6 | 32.56 | 54 | -21.44 | - | - | 360 | 100 | H |
| 6.439 | 38.71 | Pk | 35.5 | -29.5 | .6 | 45.31 | - | - | 74 | -28.69 | 360 | 100 | V |
| 6.439 | 26.08 | Ca | 35.5 | -29.5 | .6 | 32.88 | 54 | -21.32 | - | - | 360 | 100 | V |

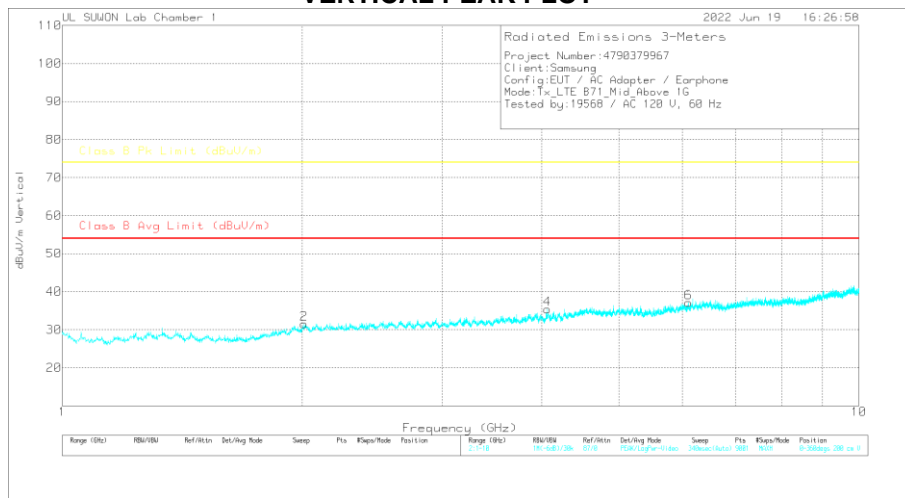
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

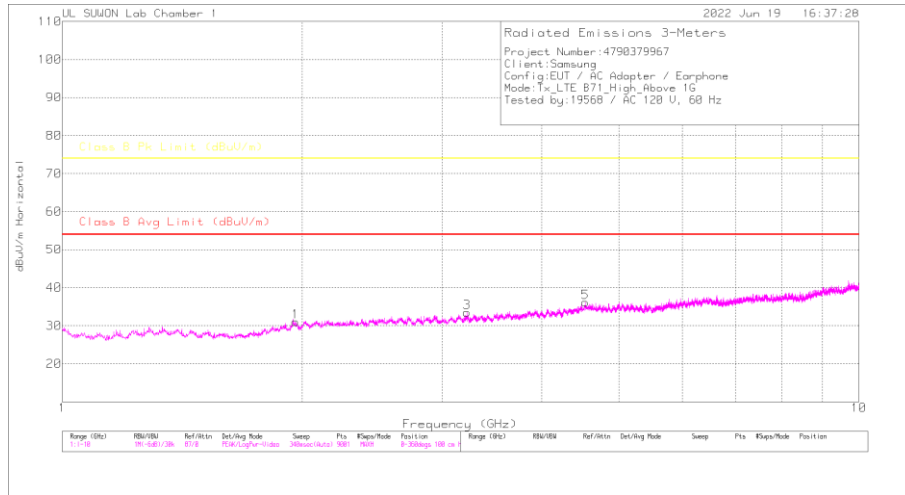
Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[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 |
|-----------------|----------------------|-----|----------------|-------------|-------------|----------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 2.031 | 42.57 | Pk | 31.5 | -35.6 | .6 | 39.07 | - | - | 74 | -34.93 | 360 | 100 | H |
| 2.031 | 29.73 | Ca | 31.5 | -35.6 | .6 | 26.23 | 54 | -27.77 | - | - | 360 | 100 | H |
| 2.013 | 42.47 | Pk | 31.5 | -35.6 | .6 | 38.97 | - | - | 74 | -35.03 | 360 | 100 | V |
| 2.013 | 30.04 | Ca | 31.5 | -35.6 | .6 | 26.54 | 54 | -27.46 | - | - | 360 | 100 | V |
| 4.066 | 40.32 | Pk | 33.5 | -32.5 | .6 | 41.92 | - | - | 74 | -32.08 | 360 | 100 | H |
| 4.066 | 28.12 | Ca | 33.5 | -32.5 | .6 | 29.72 | 54 | -24.28 | - | - | 360 | 100 | H |
| 4.067 | 40.3 | Pk | 33.5 | -32.5 | .6 | 41.9 | - | - | 74 | -32.1 | 360 | 100 | V |
| 4.067 | 27.91 | Ca | 33.5 | -32.5 | .6 | 29.51 | 54 | -24.49 | - | - | 360 | 100 | V |
| 6.178 | 38.97 | Pk | 35.4 | -30 | .6 | 44.97 | - | - | 74 | -29.03 | 360 | 100 | H |
| 6.178 | 26.58 | Ca | 35.4 | -30 | .6 | 32.58 | 54 | -21.42 | - | - | 360 | 100 | H |
| 6.107 | 38.77 | Pk | 35.4 | -30.2 | .5 | 44.47 | - | - | 74 | -29.53 | 360 | 100 | V |
| 6.107 | 26.91 | Ca | 35.4 | -30.2 | .5 | 32.61 | 54 | -21.39 | - | - | 360 | 100 | V |

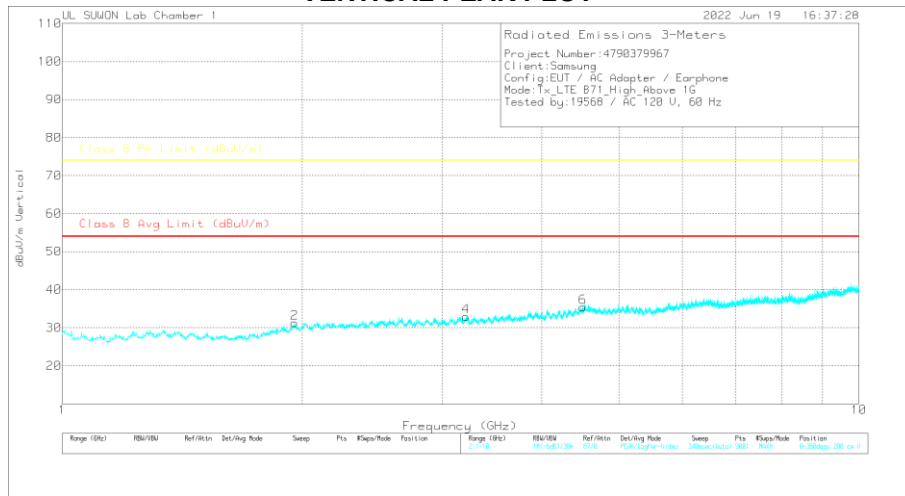
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(644.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

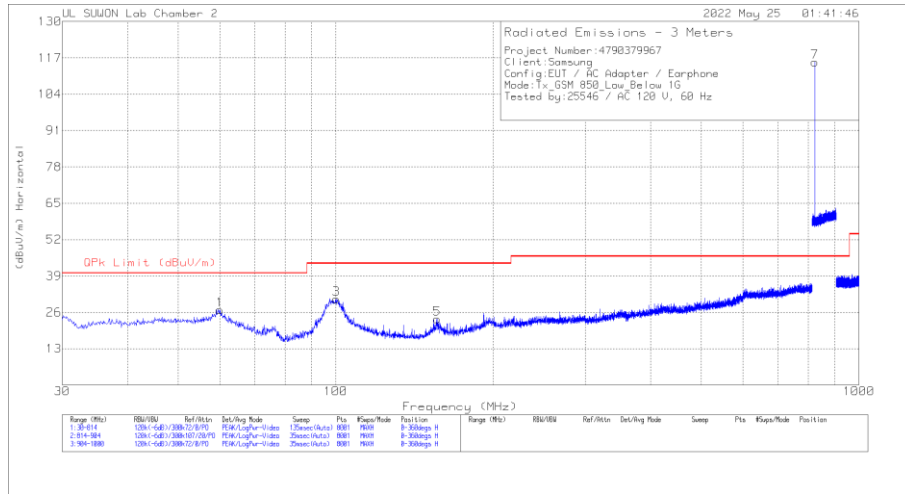
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 1-18GHz[dB] | 1GHz_HP[dB] | Corrected Reading dBuV/m | Class B Avg Limit (dBuV/m) | Av(CISPR)Margin (dB) | Class B Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|----------------|-------------|-------------|--------------------------|----------------------------|----------------------|---------------------------|-------------|----------------|-------------|----------|
| 1.963 | 42.27 | Pk | 31.2 | -35.7 | .6 | 38.37 | - | - | 74 | -35.63 | 360 | 100 | H |
| 1.963 | 30.04 | Ca | 31.2 | -35.7 | .6 | 26.14 | 54 | -27.86 | - | - | 360 | 100 | H |
| 1.958 | 42.51 | Pk | 31.2 | -35.8 | .6 | 38.51 | - | - | 74 | -35.49 | 360 | 100 | V |
| 1.958 | 30.27 | Ca | 31.2 | -35.8 | .6 | 26.27 | 54 | -27.73 | - | - | 360 | 100 | V |
| 3.219 | 40.9 | Pk | 32.7 | -33.7 | .6 | 40.5 | - | - | 74 | -33.5 | 360 | 100 | H |
| 3.219 | 28.44 | Ca | 32.7 | -33.7 | .6 | 28.04 | 54 | -25.96 | - | - | 360 | 100 | H |
| 3.214 | 40.83 | Pk | 32.7 | -33.6 | .6 | 40.53 | - | - | 74 | -33.47 | 360 | 100 | V |
| 3.214 | 28.42 | Ca | 32.7 | -33.6 | .6 | 28.12 | 54 | -25.88 | - | - | 360 | 100 | V |
| 4.537 | 39.49 | Pk | 34.2 | -32 | .7 | 42.39 | - | - | 74 | -31.61 | 360 | 100 | H |
| 4.537 | 27.54 | Ca | 34.2 | -32 | .7 | 30.44 | 54 | -23.56 | - | - | 360 | 100 | H |
| 4.505 | 39.56 | Pk | 34.2 | -32.2 | .6 | 42.16 | - | - | 74 | -31.84 | 360 | 100 | V |
| 4.505 | 27.42 | Ca | 34.2 | -32.2 | .6 | 30.02 | 54 | -23.98 | - | - | 360 | 100 | V |

Pk - Peak detector
 Ca - CISPR average detection

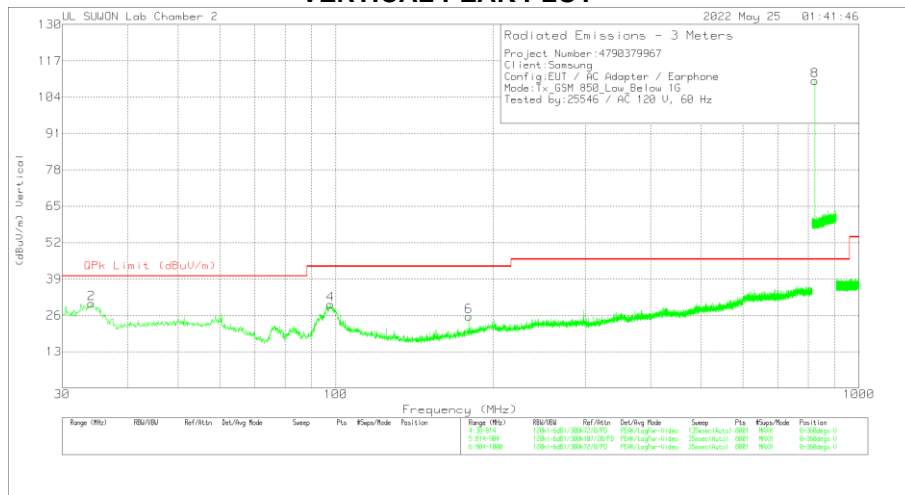
7.1.8. Below 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

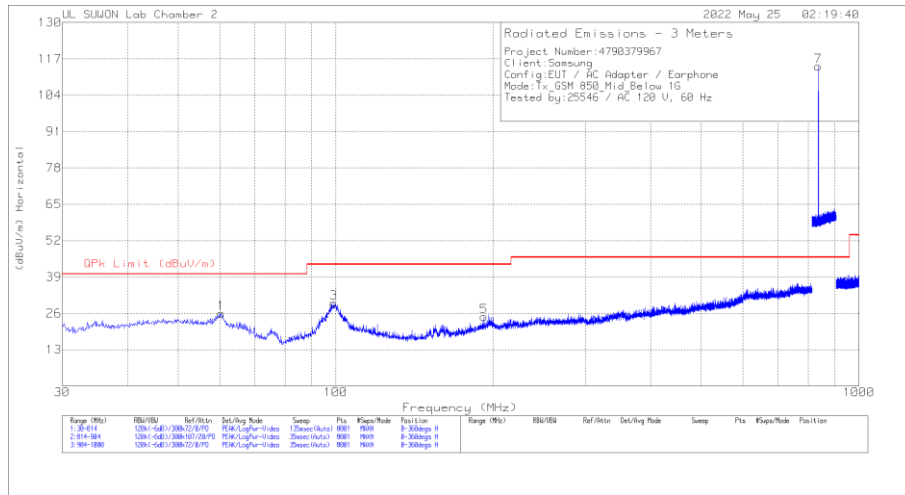
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 59.988 | 7.4 | Pk | 18.5 | .9 | 26.8 | 40 | -13.2 | 0-360 | 400 | H |
| 3 | 100.168 | 12.17 | Pk | 17.4 | 1.2 | 30.77 | 43.52 | -12.75 | 0-360 | 400 | H |
| 5 | 156.322 | 8.18 | Pk | 14 | 1.4 | 23.58 | 43.52 | -19.94 | 0-360 | 200 | H |
| 7 | 824.2488 | 85.45 | Pk | 26.7 | 3.3 | 115.45 | 46.02 | 69.43 | 0-360 | 100 | H |
| 2 | 34.116 | 13.5 | Pk | 16.1 | .7 | 30.3 | 40 | -9.7 | 0-360 | 100 | V |
| 4 | 97.718 | 11.68 | Pk | 17.1 | 1.1 | 29.88 | 43.52 | -13.64 | 0-360 | 100 | V |
| 6 | 179.646 | 8.89 | Pk | 15.3 | 1.5 | 25.69 | 43.52 | -17.83 | 0-360 | 100 | V |
| 8 | 824.2488 | 79.85 | Pk | 26.7 | 3.3 | 109.85 | 46.02 | 63.83 | 0-360 | 300 | V |

Pk - Peak detector

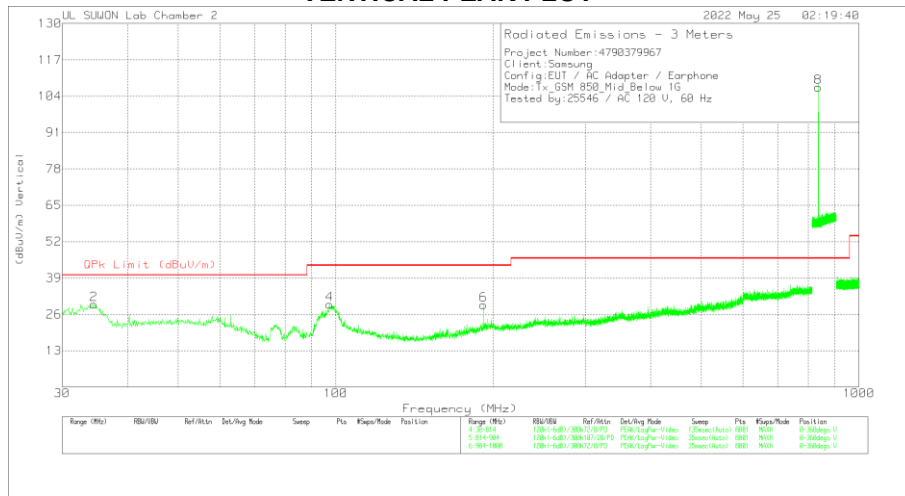
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

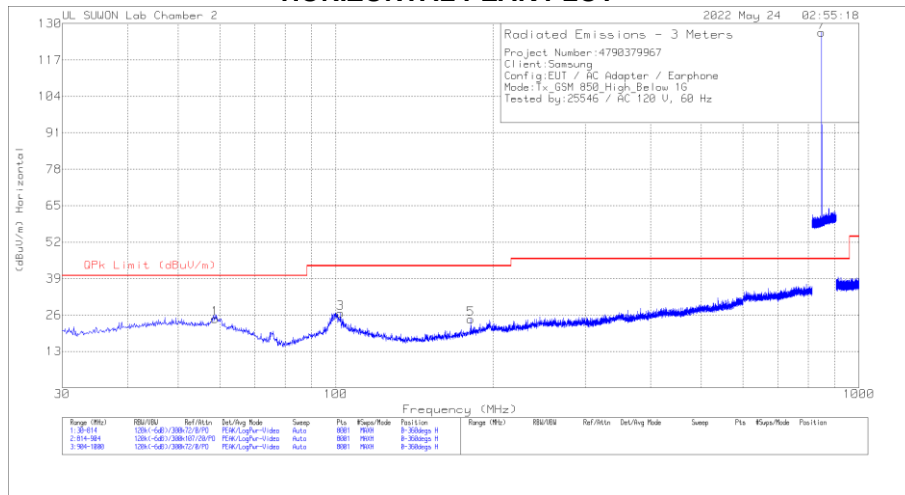
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.38 | 6.63 | Pk | 18.4 | .9 | 25.93 | 40 | -14.07 | 0-360 | 300 | H |
| 3 | 99.09 | 11.25 | Pk | 17.3 | 1.1 | 29.65 | 43.52 | -13.87 | 0-360 | 200 | H |
| 5 | 191.896 | 6.45 | Pk | 16.7 | 1.6 | 24.75 | 43.52 | -18.77 | 0-360 | 100 | H |
| 7 | 836.6013 | 84.08 | Pk | 26.9 | 3.3 | 114.28 | 46.02 | 68.26 | 0-360 | 200 | H |
| 2 | 34.508 | 12.55 | Pk | 16.3 | .7 | 29.55 | 40 | -10.45 | 0-360 | 100 | V |
| 4 | 97.326 | 11.42 | Pk | 17.1 | 1.1 | 29.62 | 43.52 | -13.9 | 0-360 | 100 | V |
| 6 | 191.602 | 11.02 | Pk | 16.7 | 1.6 | 29.32 | 43.52 | -14.2 | 0-360 | 100 | V |
| 8 | 836.6013 | 76.91 | Pk | 26.9 | 3.3 | 107.11 | 46.02 | 61.09 | 0-360 | 300 | V |

Pk - Peak detector

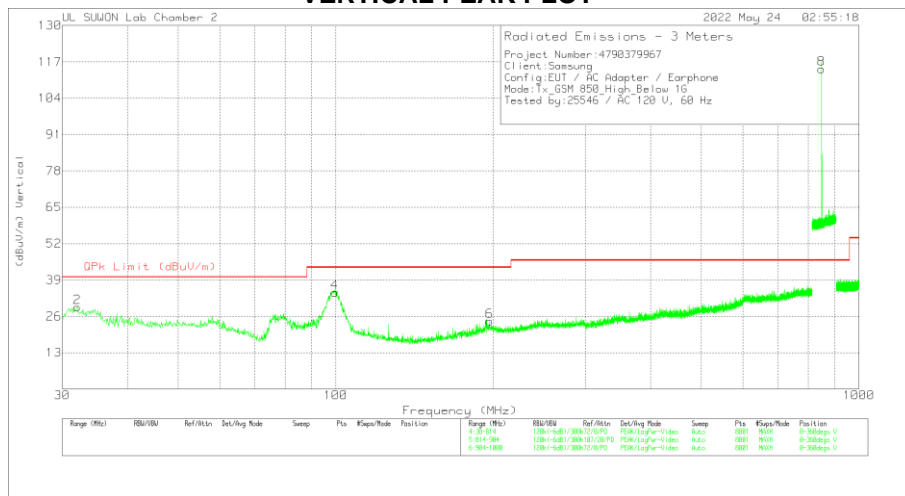
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 58.812 | 4.98 | Pk | 18.7 | .9 | 24.58 | 40 | -15.42 | 0-360 | 400 | H |
| 3 | 102.128 | 8.01 | Pk | 17.5 | 1.2 | 26.71 | 43.52 | -16.81 | 0-360 | 400 | H |
| 5 | 181.214 | 7.5 | Pk | 15.4 | 1.5 | 24.4 | 43.52 | -19.12 | 0-360 | 300 | H |
| 7 | 848.8075 | 96.23 | Pk | 27.3 | 3.3 | 126.83 | 46.02 | 80.81 | 0-360 | 100 | H |
| 2 | 32.058 | 13.15 | Pk | 15.4 | .6 | 29.15 | 40 | -10.85 | 0-360 | 100 | V |
| 4 | 99.678 | 15.93 | Pk | 17.4 | 1.1 | 34.43 | 43.52 | -9.09 | 0-360 | 100 | V |
| 6 | 196.796 | 5.25 | Pk | 17.5 | 1.6 | 24.35 | 43.52 | -19.17 | 0-360 | 100 | V |
| 8 | 848.7963 | 83.78 | Pk | 27.3 | 3.3 | 114.38 | 46.02 | 68.36 | 0-360 | 400 | V |

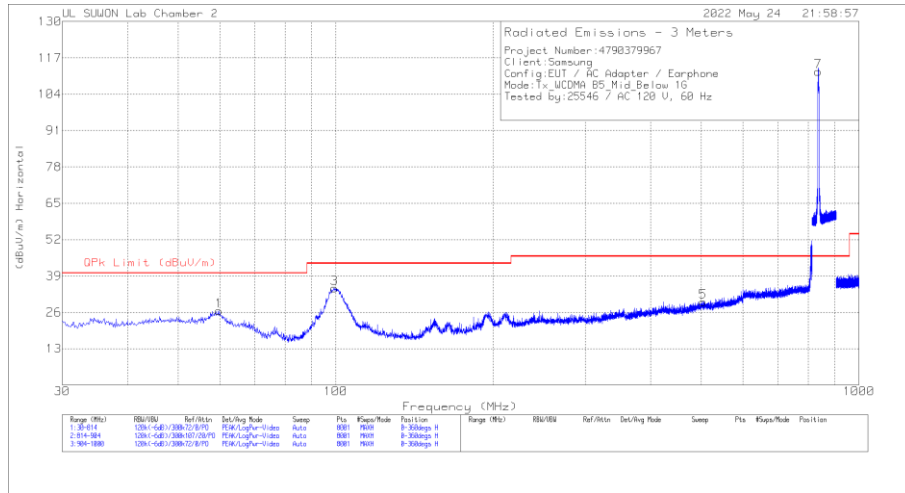
Pk - Peak detector

Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

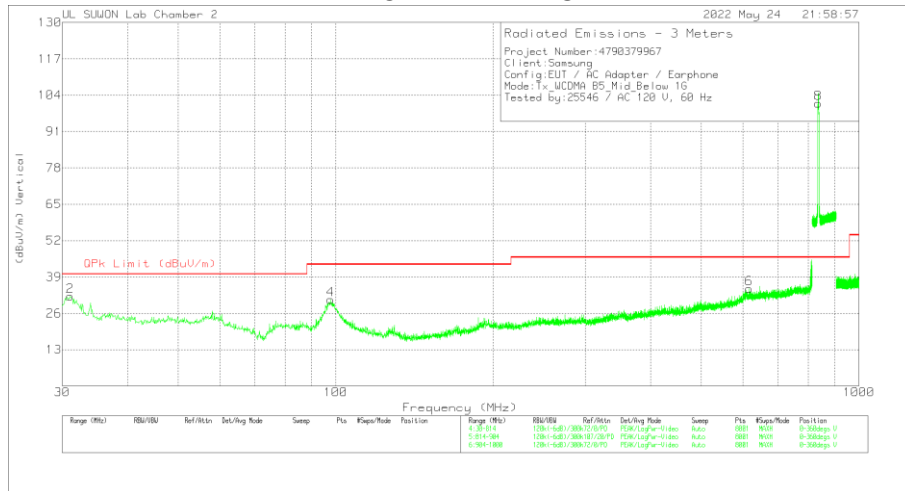
7.1.9. Below 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 59.792 | 7.04 | Pk | 18.5 | .9 | 26.44 | 40 | -13.56 | 0-360 | 300 | H |
| 3 | 99.384 | 16.31 | Pk | 17.3 | 1.1 | 34.71 | 43.52 | -8.81 | 0-360 | 200 | H |
| 5 | 504.026 | 4.14 | PK | 23 | 2.6 | 29.74 | 46.02 | -16.28 | 0-360 | 100 | H |
| 7 | 836.5225 | 81.93 | Pk | 26.9 | 3.3 | 112.13 | 46.02 | 66.11 | 0-360 | 200 | H |
| 2 | 31.078 | 16.09 | PK | 15.4 | .6 | 32.09 | 40 | -7.91 | 0-360 | 200 | V |
| 4 | 97.816 | 12.64 | PK | 17.2 | 1.1 | 30.94 | 43.52 | -12.58 | 0-360 | 200 | V |
| 6 | 616.824 | 6.79 | PK | 25.2 | 2.8 | 34.79 | 46.02 | -11.23 | 0-360 | 400 | V |
| 8 | 836.68 | 70.89 | PK | 26.9 | 3.3 | 101.09 | 46.02 | 55.07 | 0-360 | 200 | V |

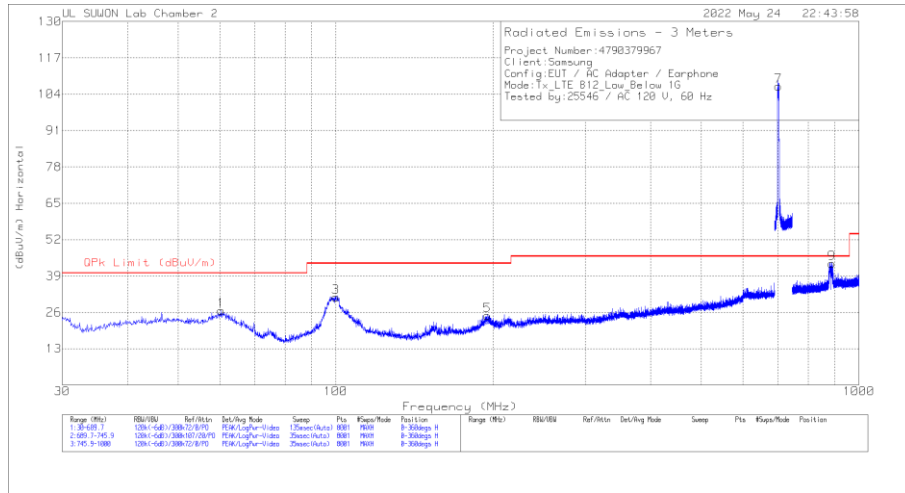
Pk - Peak detector

Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

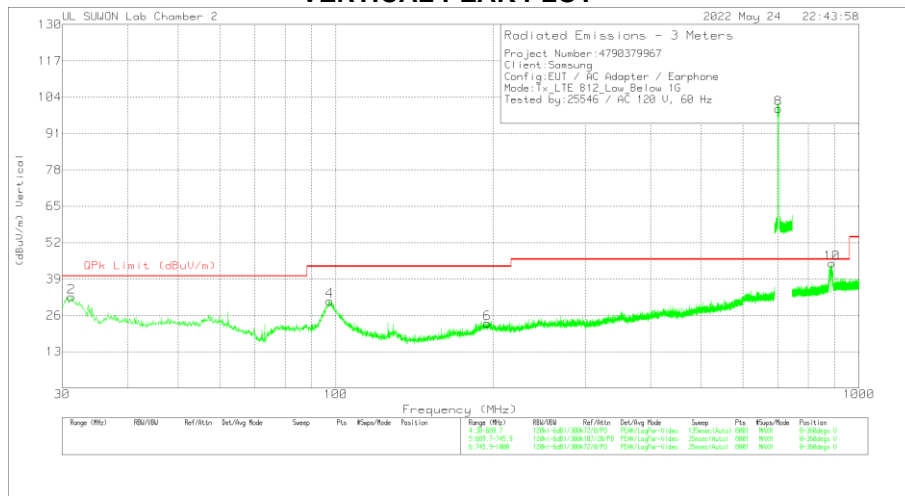
7.1.10. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBUV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBUV/m) | QPk Limit (dBUV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.3464 | 7.42 | Pk | 18.4 | .9 | 26.72 | 40 | -13.28 | 0-360 | 300 | H |
| 3 | 100.0936 | 12.88 | Pk | 17.4 | 1.2 | 31.48 | 43.52 | -12.04 | 0-360 | 200 | H |
| 5 | 194.8435 | 5.94 | PK | 17.3 | 1.6 | 24.84 | 43.52 | -18.68 | 0-360 | 100 | H |
| 7 | 701.4458 | 78.37 | Pk | 25.4 | 3 | 106.77 | 46.02 | 60.75 | 0-360 | 200 | H |
| 9 | 888.0077 | 12.29 | Pk | 27.8 | 3.4 | 43.49 | 46.02 | -2.53 | 0-360 | 200 | H |
| 2 | 31.2369 | 16.56 | Pk | 15.4 | .6 | 32.56 | 40 | -7.44 | 0-360 | 200 | V |
| 4 | 97.3723 | 12.96 | Pk | 17.1 | 1.1 | 31.16 | 43.52 | -12.36 | 0-360 | 200 | V |
| 6 | 194.926 | 4.14 | Pk | 17.3 | 1.6 | 23.04 | 43.52 | -20.48 | 0-360 | 300 | V |
| 8 | 701.4458 | 71.47 | Pk | 25.4 | 3 | 99.87 | 46.02 | 53.85 | 0-360 | 100 | V |
| 10 | 888.0077 | 13.4 | Pk | 27.8 | 3.4 | 44.6 | 46.02 | -1.42 | 0-360 | 400 | V |

Pk - Peak detector

Radiated Emissions

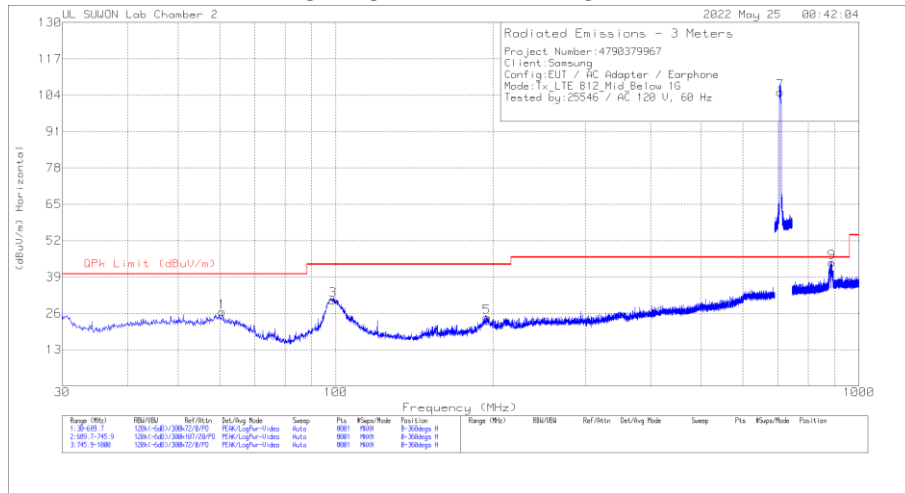
| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_74 9 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|------------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 888.0077 | 8.26 | Qp | 27.8 | 3.4 | 39.46 | 46.02 | -6.56 | 276 | 297 | H |
| 888.0077 | 9.73 | Qp | 27.8 | 3.4 | 40.93 | 46.02 | -5.09 | 166 | 380 | V |

Qp - Quasi-Peak detector

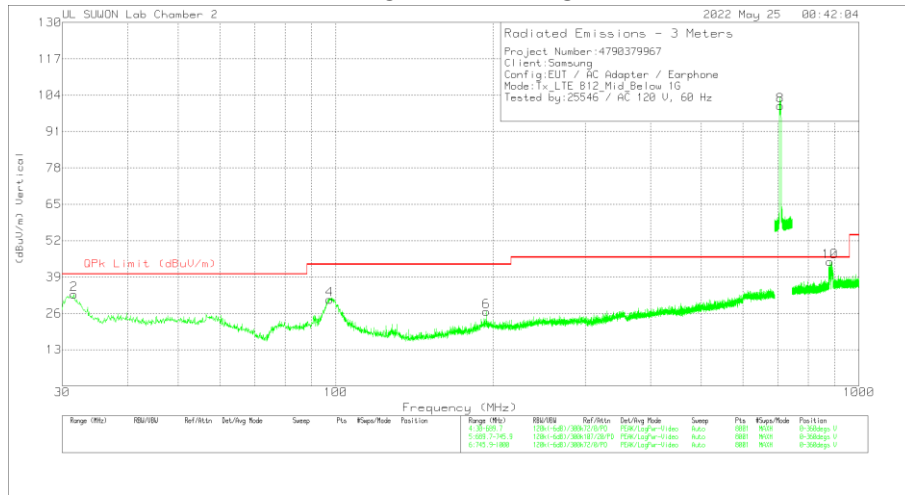
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.6762 | 7.19 | Pk | 18.4 | .9 | 26.49 | 40 | -13.51 | 0-360 | 300 | H |
| 3 | 98.7741 | 12.39 | Pk | 17.3 | 1.1 | 30.79 | 43.52 | -12.73 | 0-360 | 100 | H |
| 5 | 194.3488 | 5.78 | Pk | 17.2 | 1.6 | 24.58 | 43.52 | -18.94 | 0-360 | 100 | H |
| 7 | 707.5084 | 76.51 | Pk | 25.6 | 3 | 105.11 | 46.02 | 59.09 | 0-360 | 200 | H |
| 9 | 888.0394 | 13 | Pk | 27.8 | 3.4 | 44.2 | 46.02 | -1.82 | 0-360 | 200 | H |
| 2 | 31.5668 | 16.76 | Pk | 15.4 | .6 | 32.76 | 40 | -7.24 | 0-360 | 200 | V |
| 4 | 97.3723 | 12.65 | Pk | 17.1 | 1.1 | 30.85 | 43.52 | -12.67 | 0-360 | 200 | V |
| 6 | 194.0189 | 7.98 | Pk | 17.1 | 1.6 | 26.68 | 43.52 | -16.84 | 0-360 | 200 | V |
| 8 | 707.5084 | 71.62 | Pk | 25.6 | 3 | 100.22 | 46.02 | 54.2 | 0-360 | 100 | V |
| 10 | 881.3374 | 13.29 | Pk | 27.7 | 3.4 | 44.39 | 46.02 | -1.63 | 0-360 | 400 | V |

Pk - Peak detector

Radiated Emissions

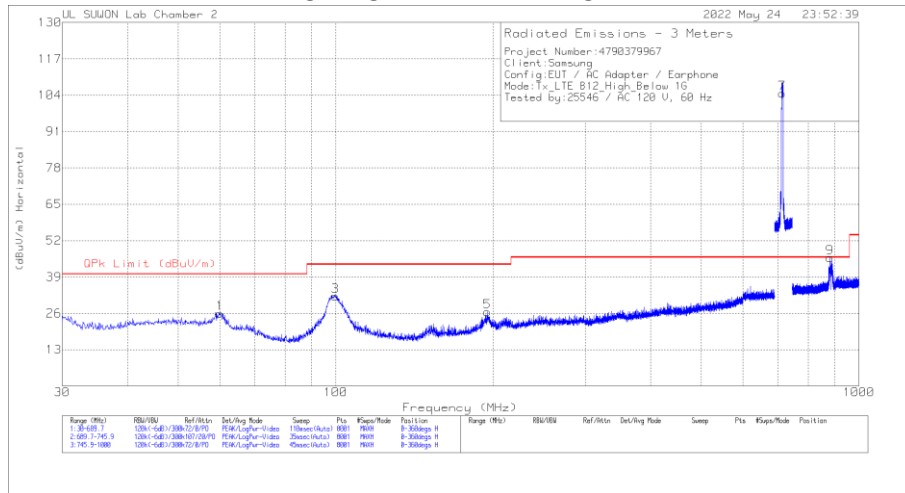
| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_74 9 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|------------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 888.0394 | 11.49 | Qp | 27.8 | 3.4 | 42.69 | 46.02 | -3.33 | 327 | 380 | H |
| 881.3374 | 7.47 | Qp | 27.7 | 3.4 | 38.57 | 46.02 | -7.45 | 276 | 337 | V |

Qp - Quasi-Peak detector

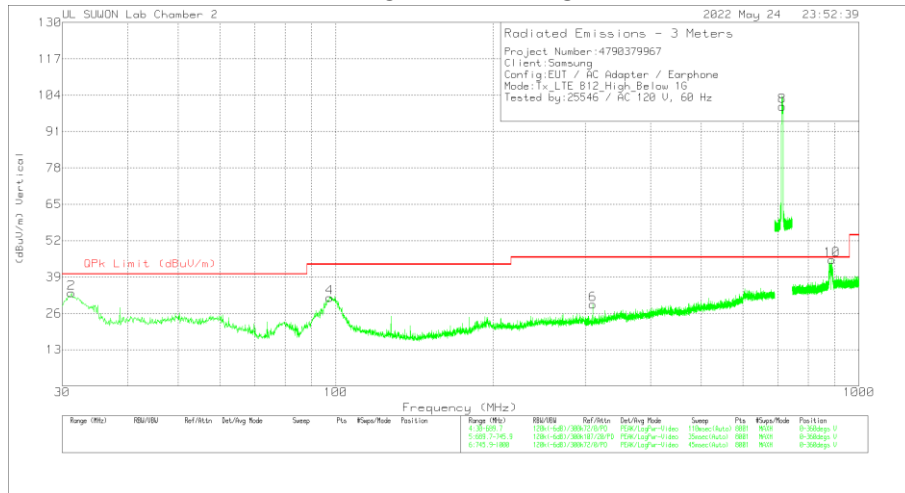
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.0165 | 6.63 | Pk | 18.5 | .9 | 26.03 | 40 | -13.97 | 0-360 | 300 | H |
| 3 | 99.8462 | 13.47 | Pk | 17.4 | 1.2 | 32.07 | 43.52 | -11.45 | 0-360 | 100 | H |
| 5 | 194.926 | 7.67 | Pk | 17.3 | 1.6 | 26.57 | 43.52 | -16.95 | 0-360 | 100 | H |
| 7 | 713.5007 | 76.01 | Pk | 25.6 | 3 | 104.61 | 46.02 | 58.59 | 0-360 | 200 | H |
| 9 | 880.7022 | 14.8 | Pk | 27.6 | 3.4 | 45.8 | 46.02 | -.22 | 0-360 | 300 | H |
| 2 | 31.2369 | 17.24 | Pk | 15.4 | .6 | 33.24 | 40 | -6.76 | 0-360 | 200 | V |
| 4 | 97.3723 | 13.4 | Pk | 17.1 | 1.1 | 31.6 | 43.52 | -11.92 | 0-360 | 200 | V |
| 6 | 309.797 | 8.01 | Pk | 19.2 | 2 | 29.21 | 46.02 | -16.81 | 0-360 | 200 | V |
| 8 | 713.5007 | 71.37 | Pk | 25.6 | 3 | 99.97 | 46.02 | 53.95 | 0-360 | 100 | V |
| 10 | 888.0712 | 14.01 | Pk | 27.8 | 3.4 | 45.21 | 46.02 | -.81 | 0-360 | 400 | V |

Pk - Peak detector

Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_74 9 | Below 1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|------------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 880.7022 | 6.77 | Qp | 27.6 | 3.4 | 37.77 | 46.02 | -8.25 | 209 | 238 | H |
| 31.2369 | 13.8 | Qp | 15.4 | .6 | 29.8 | 40 | -10.2 | 143 | 100 | V |
| 888.0712 | 9.96 | Qp | 27.8 | 3.4 | 41.16 | 46.02 | -4.86 | 64 | 386 | V |

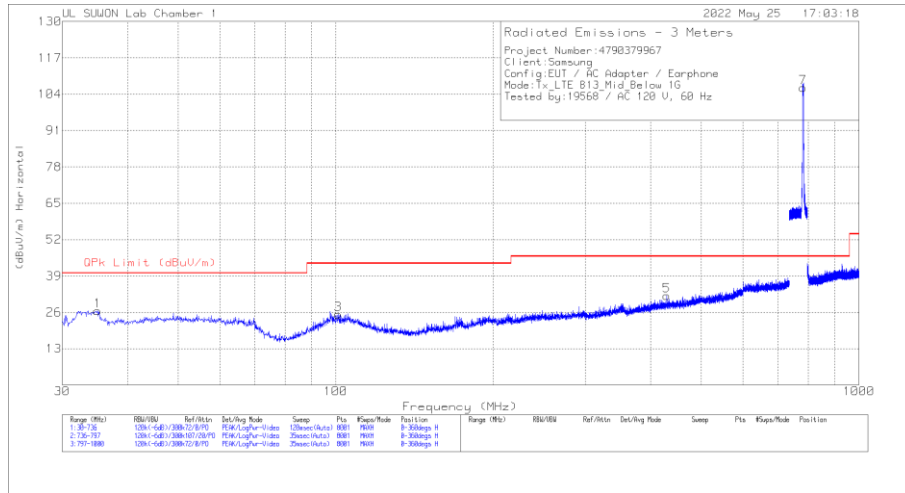
Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

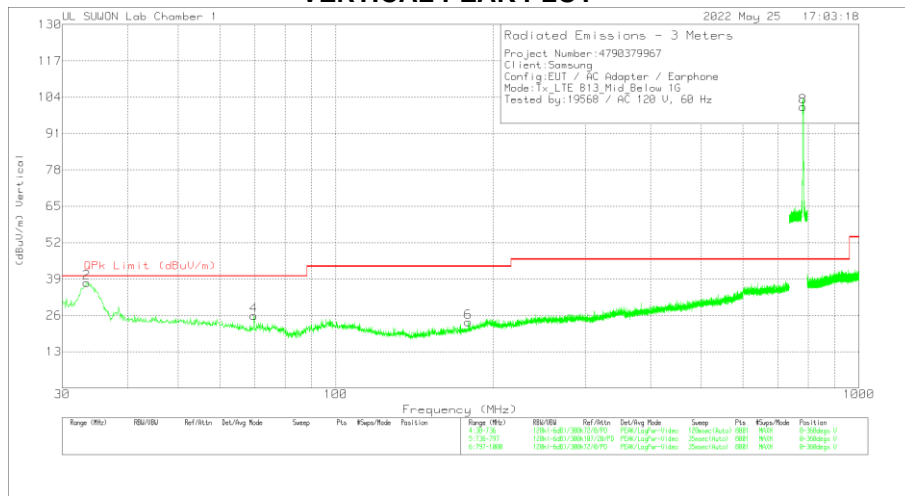
7.1.11. Below 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass [dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 35.0303 | 8.74 | Pk | 16.6 | 1.2 | 26.54 | 40 | -13.46 | 0-360 | 200 | H |
| 3 | 101.0413 | 5.59 | Pk | 17.7 | 2.1 | 25.39 | 43.52 | -18.13 | 0-360 | 200 | H |
| 5 | 428.8018 | 5.49 | PK | 22.1 | 4.3 | 31.89 | 46.02 | -14.13 | 0-360 | 100 | H |
| 7 | 782.1999 | 73.86 | Pk | 26.7 | 5.8 | 106.36 | 46.02 | 60.34 | 0-360 | 300 | H |
| 2 | 33.4418 | 20.53 | Pk | 16 | 1.2 | 37.73 | 40 | -2.27 | 0-360 | 100 | V |
| 4 | 69.8008 | 8.63 | Pk | 15.5 | 1.7 | 25.83 | 40 | -14.17 | 0-360 | 100 | V |
| 6 | 179.1425 | 5.52 | Pk | 15.3 | 2.8 | 23.62 | 43.52 | -19.9 | 0-360 | 100 | V |
| 8 | 782.1999 | 68.02 | Pk | 26.7 | 5.8 | 100.52 | 46.02 | 54.5 | 0-360 | 300 | V |

Pk - Peak detector

Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 33.4418 | 16.85 | Qp | 16 | 1.2 | 34.05 | 40 | -5.95 | 200 | 101 | V |

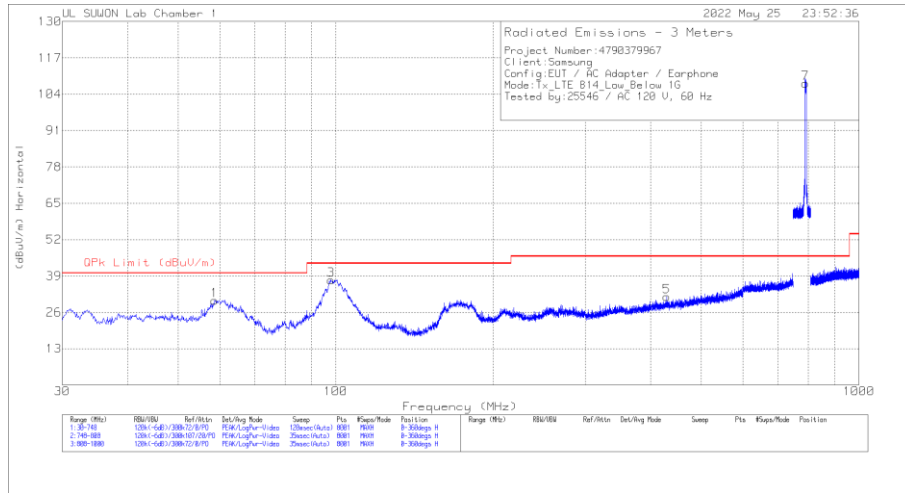
Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

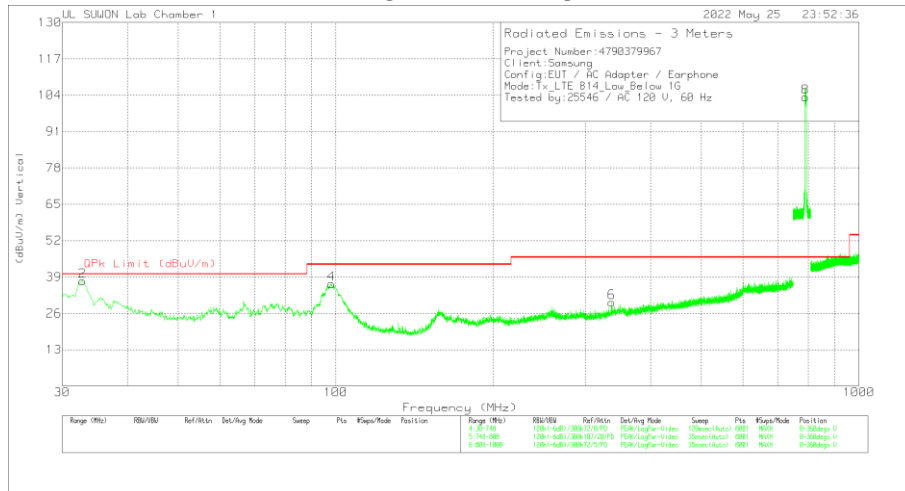
7.1.12. Below 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 58.6303 | 9.8 | Pk | 18.9 | 1.6 | 30.3 | 40 | -9.7 | 0-360 | 300 | H |
| 3 | 97.9408 | 18.15 | Pk | 17.3 | 2.1 | 37.55 | 43.52 | -5.97 | 0-360 | 200 | H |
| 5 | 429.3875 | 5.13 | Pk | 22.1 | 4.3 | 31.53 | 46.02 | -14.49 | 0-360 | 100 | H |
| 7 | 790.5475 | 75.38 | Pk | 26.7 | 5.8 | 107.88 | 46.02 | 61.86 | 0-360 | 200 | H |
| 2 | 32.7823 | 20.46 | Pk | 15.8 | 1.2 | 37.46 | 40 | -2.54 | 0-360 | 200 | V |
| 4 | 98.1203 | 17.03 | Pk | 17.3 | 2.1 | 36.43 | 43.52 | -7.09 | 0-360 | 200 | V |
| 6 | 336.6758 | 5.77 | Pk | 20.4 | 3.8 | 29.97 | 46.02 | -16.05 | 0-360 | 400 | V |
| 8 | 790.5925 | 70.71 | Pk | 26.7 | 5.8 | 103.21 | 46.02 | 57.19 | 0-360 | 100 | V |

Pk - Peak detector

Radiated Emissions

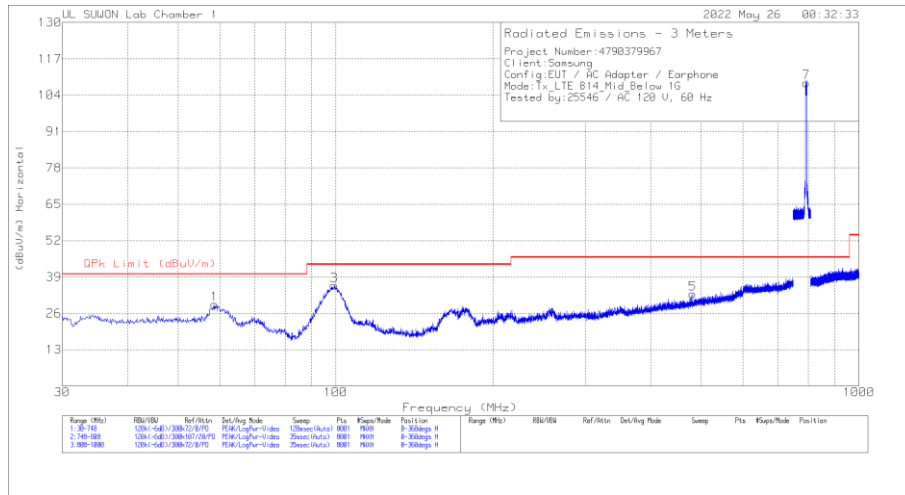
| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 97.9408 | 14.97 | Qp | 17.3 | 2.1 | 34.37 | 43.52 | -9.15 | 293 | 293 | H |
| 32.7823 | 13.8 | Qp | 15.8 | 1.2 | 30.8 | 40 | -9.2 | 171 | 100 | V |

Qp - Quasi-Peak detector

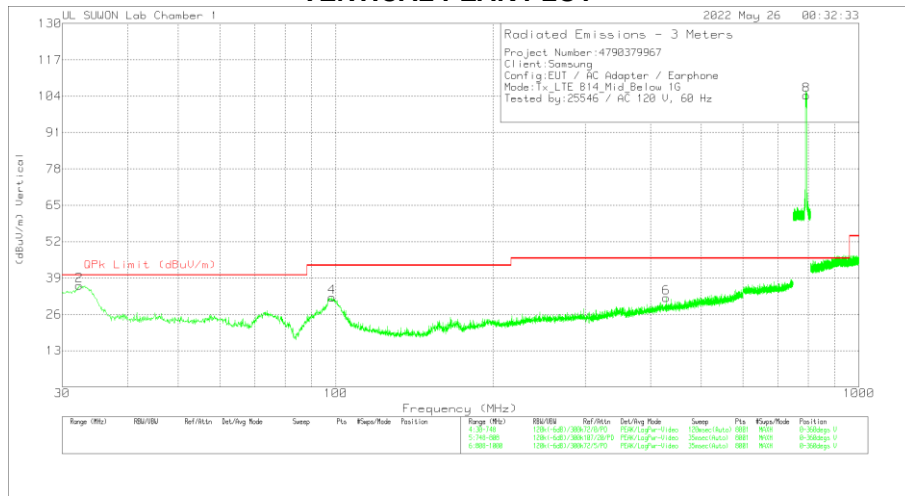
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(763.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass [dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 58.72 | 8.64 | Pk | 18.9 | 1.6 | 29.14 | 40 | -10.86 | 0-360 | 300 | H |
| 3 | 99.287 | 16.46 | Pk | 17.4 | 2.1 | 35.96 | 43.52 | -7.56 | 0-360 | 200 | H |
| 5 | 481.3528 | 5.74 | Pk | 22.7 | 4.5 | 32.94 | 46.02 | -13.08 | 0-360 | 200 | H |
| 7 | 793.075 | 75.84 | Pk | 26.8 | 5.8 | 108.44 | 46.02 | 62.42 | 0-360 | 200 | H |
| 2 | 32.3335 | 19.43 | Pk | 15.7 | 1.2 | 36.33 | 40 | -3.67 | 0-360 | 200 | V |
| 4 | 98.2998 | 12.7 | Pk | 17.3 | 2.1 | 32.1 | 43.52 | -11.42 | 0-360 | 200 | V |
| 6 | 428.131 | 5.54 | Pk | 22.1 | 4.3 | 31.94 | 46.02 | -14.08 | 0-360 | 400 | V |
| 8 | 793.0975 | 71.61 | Pk | 26.8 | 5.8 | 104.21 | 46.02 | 58.19 | 0-360 | 100 | V |

Pk - Peak detector

Radiated Emissions

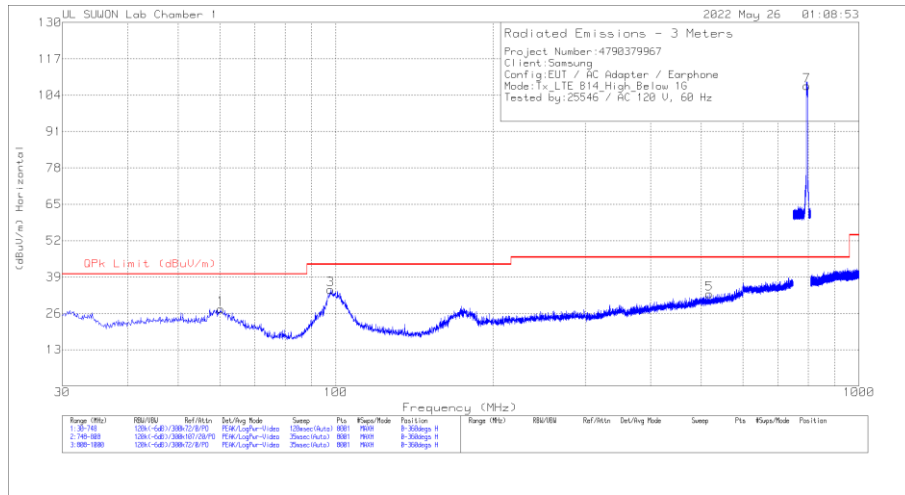
| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 32.3335 | 15.88 | Qp | 15.7 | 1.2 | 32.78 | 40 | -7.22 | 197 | 101 | V |

Qp - Quasi-Peak detector

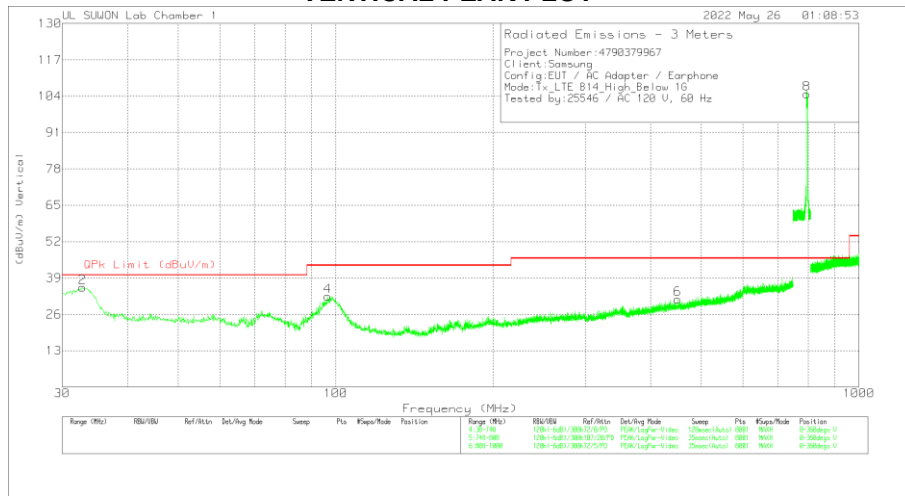
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass [dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.2458 | 7.4 | Pk | 18.6 | 1.6 | 27.6 | 40 | -12.4 | 0-360 | 300 | H |
| 3 | 97.7613 | 15.18 | Pk | 17.3 | 2 | 34.48 | 43.52 | -9.04 | 0-360 | 100 | H |
| 5 | 517.7015 | 4.94 | Pk | 23.3 | 4.7 | 32.94 | 46.02 | -13.08 | 0-360 | 200 | H |
| 7 | 795.4675 | 74.76 | Pk | 26.8 | 5.8 | 107.36 | 46.02 | 61.34 | 0-360 | 200 | H |
| 2 | 32.7823 | 18.63 | PK | 15.8 | 1.2 | 35.63 | 40 | -4.37 | 0-360 | 200 | V |
| 4 | 96.5048 | 13.47 | PK | 17 | 2 | 32.47 | 43.52 | -11.05 | 0-360 | 200 | V |
| 6 | 450.1198 | 4.83 | PK | 22.2 | 4.4 | 31.43 | 46.02 | -14.59 | 0-360 | 200 | V |
| 8 | 795.4975 | 72.12 | PK | 26.8 | 5.8 | 104.72 | 46.02 | 58.7 | 0-360 | 100 | V |

PK - Peak detector

Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 32.7823 | 15.69 | Qp | 15.8 | 1.2 | 32.69 | 40 | -7.31 | 176 | 100 | V |

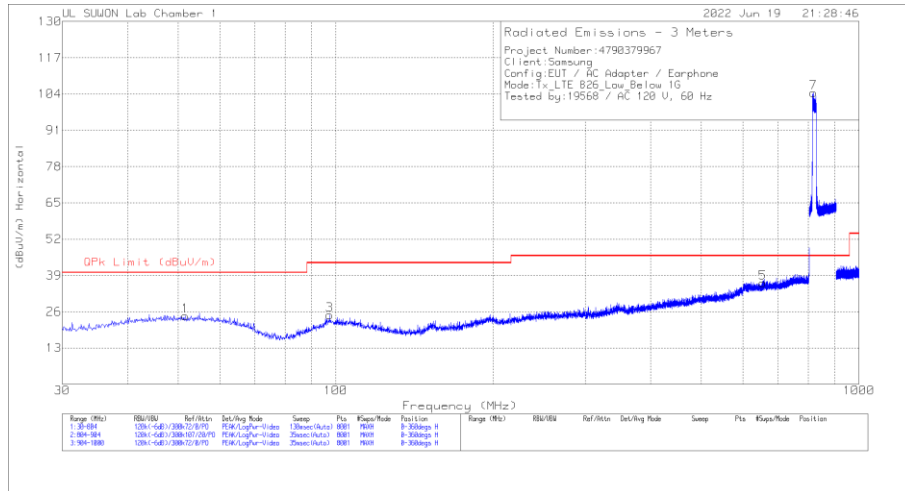
Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

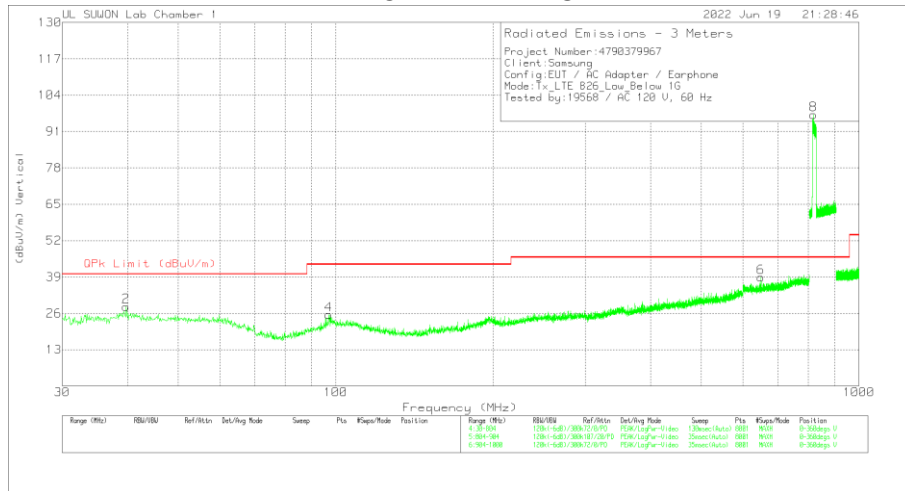
7.1.13. Below 1 GHz in the LTE Band 26

LOW CHANNEL(860.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

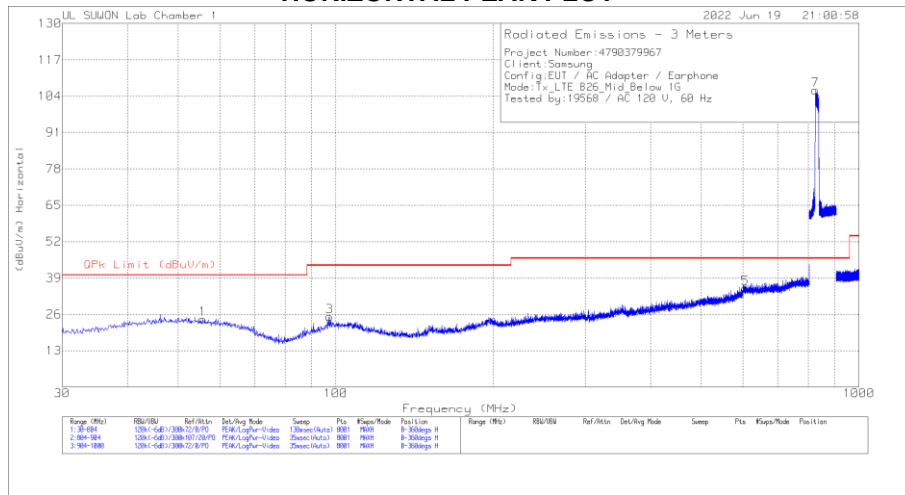
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass [dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 51.5753 | 3.34 | Pk | 19.7 | 1.5 | 24.54 | 40 | -15.46 | 0-360 | 300 | H |
| 3 | 97.2413 | 5.64 | Pk | 17.1 | 2 | 24.74 | 43.52 | -18.78 | 0-360 | 100 | H |
| 5 | 654.9083 | 5.69 | PK | 25.4 | 5.3 | 36.39 | 46.02 | -9.63 | 0-360 | 200 | H |
| 7 | 817.9875 | 71.47 | PK | 27.1 | 5.9 | 104.47 | 46.02 | 58.45 | 0-360 | 200 | H |
| 2 | 39.7718 | 8.55 | PK | 18.6 | 1.3 | 28.45 | 40 | -11.55 | 0-360 | 200 | V |
| 4 | 96.951 | 6.43 | PK | 17.1 | 2 | 25.53 | 43.52 | -17.99 | 0-360 | 200 | V |
| 6 | 649.4903 | 8.33 | PK | 25.2 | 5.3 | 38.83 | 46.02 | -7.19 | 0-360 | 300 | V |
| 8 | 818.7125 | 64.08 | PK | 27.1 | 5.9 | 97.08 | 46.02 | 51.06 | 0-360 | 100 | V |

Pk - Peak detector

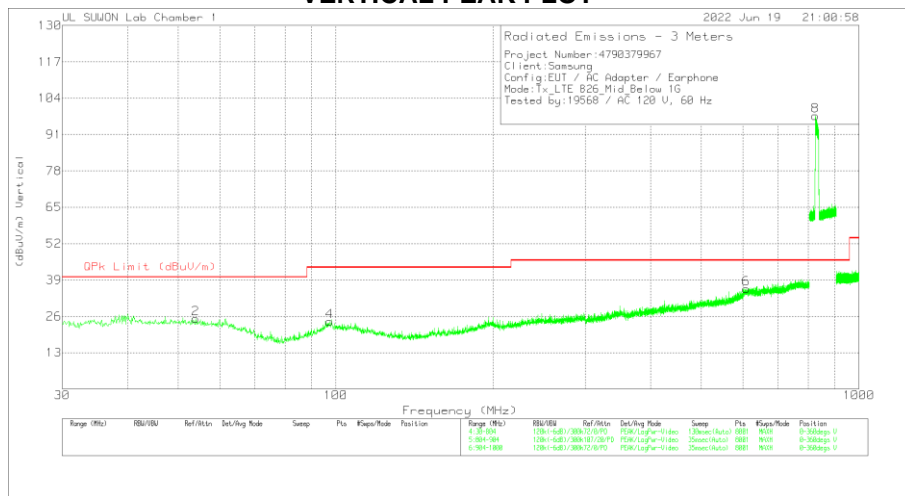
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

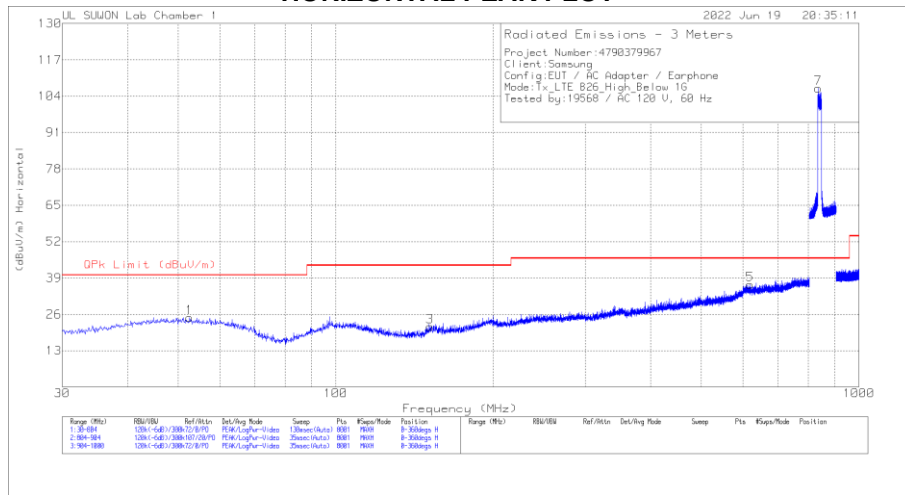
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass [dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 55.6388 | 3.49 | Pk | 19.3 | 1.5 | 24.29 | 40 | -15.71 | 0-360 | 200 | H |
| 3 | 97.338 | 6.01 | Pk | 17.2 | 2 | 25.21 | 43.52 | -18.31 | 0-360 | 200 | H |
| 5 | 606.7268 | 5.09 | Pk | 25.2 | 5.1 | 35.39 | 46.02 | -10.63 | 0-360 | 100 | H |
| 7 | 825.5625 | 73.08 | Pk | 27.1 | 5.9 | 106.08 | 46.02 | 60.06 | 0-360 | 200 | H |
| 2 | 53.994 | 4.22 | Pk | 19.5 | 1.5 | 25.22 | 40 | -14.78 | 0-360 | 300 | V |
| 4 | 97.338 | 5 | Pk | 17.2 | 2 | 24.2 | 43.52 | -19.32 | 0-360 | 200 | V |
| 6 | 609.339 | 5.45 | Pk | 25.2 | 5.1 | 35.75 | 46.02 | -10.27 | 0-360 | 400 | V |
| 8 | 825.9 | 64.64 | Pk | 27.1 | 5.9 | 97.64 | 46.02 | 51.62 | 0-360 | 100 | V |

Pk - Peak detector

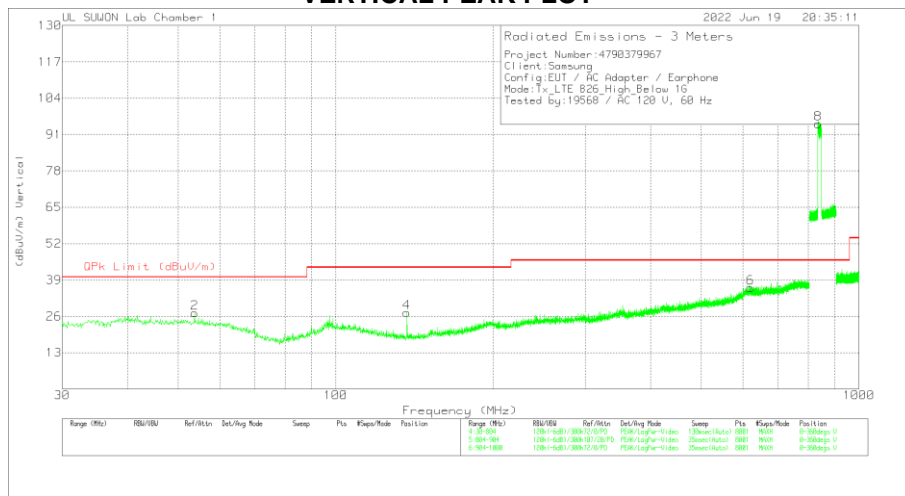
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(892.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|---------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 52.5428 | 3.71 | Pk | 19.6 | 1.5 | 24.81 | 40 | -15.19 | 0-360 | 100 | H |
| 3 | 151.4213 | 4.97 | Pk | 14 | 2.6 | 21.57 | 43.52 | -21.95 | 0-360 | 300 | H |
| 5 | 619.2075 | 6.36 | Pk | 25.2 | 5.1 | 36.66 | 46.02 | -9.36 | 0-360 | 100 | H |
| 7 | 835.0875 | 73.87 | Pk | 27 | 6 | 106.87 | 46.02 | 60.85 | 0-360 | 200 | H |
| 2 | 53.7038 | 6.11 | Pk | 19.5 | 1.5 | 27.11 | 40 | -12.89 | 0-360 | 200 | V |
| 4 | 136.812 | 11.07 | Pk | 13.9 | 2.4 | 27.37 | 43.52 | -16.15 | 0-360 | 200 | V |
| 6 | 620.3685 | 5.87 | Pk | 25.2 | 5.1 | 36.17 | 46.02 | -9.85 | 0-360 | 200 | V |
| 8 | 836.3625 | 61.77 | Pk | 27.1 | 6 | 94.87 | 46.02 | 48.85 | 0-360 | 100 | V |

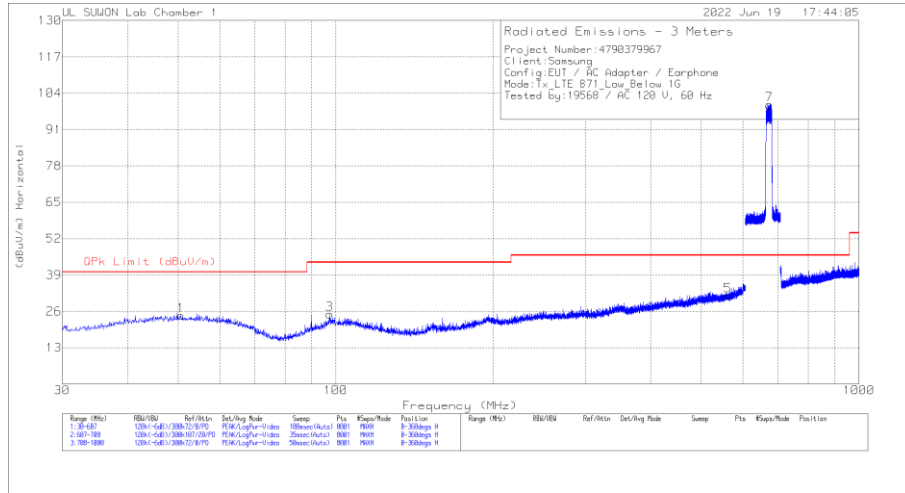
Pk - Peak detector

Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

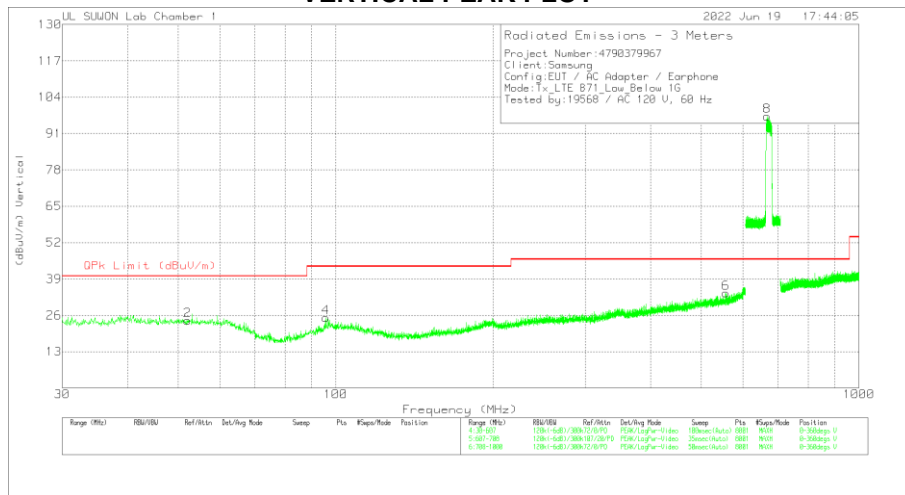
7.1.14. Below 1 GHz in the LTE Band 71

LOW CHANNEL(624.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

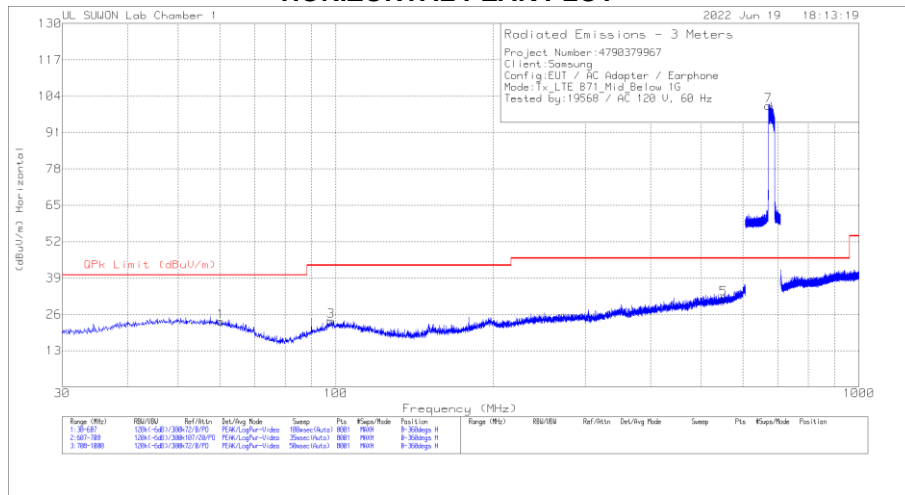
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass [dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 50.5556 | 3.15 | Pk | 19.8 | 1.5 | 24.45 | 40 | -15.55 | 0-360 | 400 | H |
| 3 | 97.2926 | 5.81 | Pk | 17.2 | 2 | 25.01 | 43.52 | -18.51 | 0-360 | 300 | H |
| 5 | 561.3449 | 2.82 | Pk | 23.9 | 4.9 | 31.62 | 46.02 | -14.4 | 0-360 | 400 | H |
| 7 | 674.3291 | 68.9 | Pk | 25.5 | 5.4 | 99.8 | 46.02 | 53.78 | 0-360 | 100 | H |
| 2 | 52.0703 | 2.99 | Pk | 19.7 | 1.5 | 24.19 | 40 | -15.81 | 0-360 | 100 | V |
| 4 | 95.6338 | 6.4 | Pk | 16.7 | 2 | 25.1 | 43.52 | -18.42 | 0-360 | 100 | V |
| 6 | 557.1616 | 5.31 | Pk | 23.8 | 4.9 | 34.01 | 46.02 | -12.01 | 0-360 | 300 | V |
| 8 | 666.8551 | 66.4 | Pk | 25.4 | 5.3 | 97.1 | 46.02 | 51.08 | 0-360 | 200 | V |

Pk - Peak detector

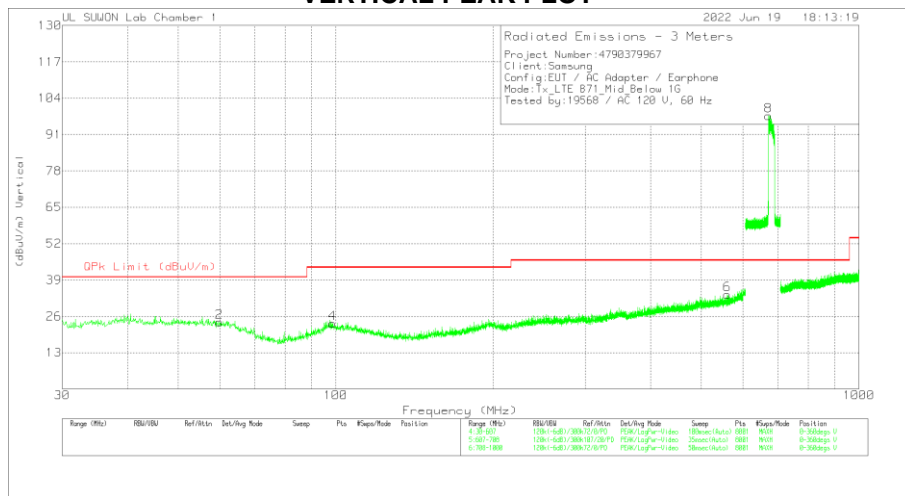
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

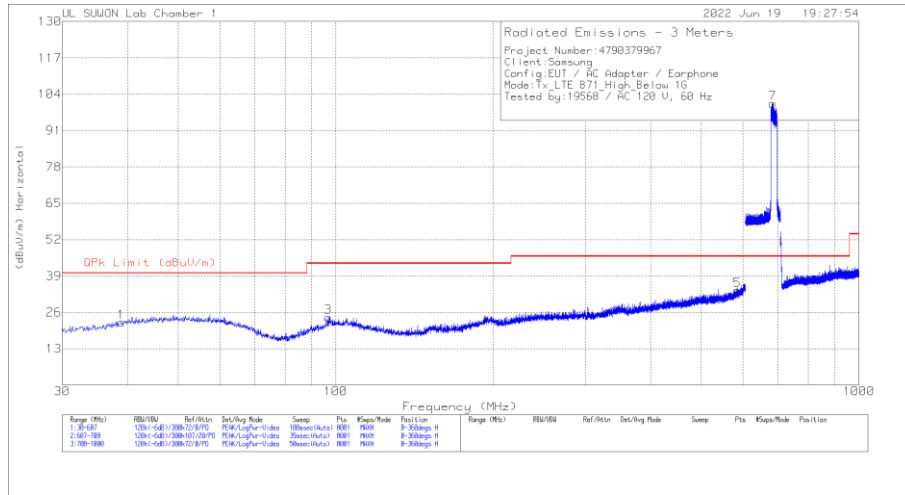
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 60.2925 | 3.39 | Pk | 18.5 | 1.6 | 23.49 | 40 | -16.51 | 0-360 | 100 | H |
| 3 | 98.0139 | 4.26 | Pk | 17.3 | 2.1 | 23.66 | 43.52 | -19.86 | 0-360 | 100 | H |
| 5 | 550.9589 | 3.08 | Pk | 23.7 | 4.8 | 31.58 | 46.02 | -14.44 | 0-360 | 100 | H |
| 7 | 672.145 | 69.81 | Pk | 25.4 | 5.4 | 100.61 | 46.02 | 54.59 | 0-360 | 200 | H |
| 2 | 59.9319 | 3.81 | Pk | 18.6 | 1.6 | 24.01 | 40 | -15.99 | 0-360 | 400 | V |
| 4 | 98.5188 | 3.92 | Pk | 17.4 | 2.1 | 23.42 | 43.52 | -20.1 | 0-360 | 200 | V |
| 6 | 559.8303 | 5 | Pk | 23.9 | 4.9 | 33.8 | 46.02 | -12.22 | 0-360 | 400 | V |
| 8 | 671.8294 | 66.92 | Pk | 25.4 | 5.4 | 97.72 | 46.02 | 51.7 | 0-360 | 100 | V |

Pk - Peak detector

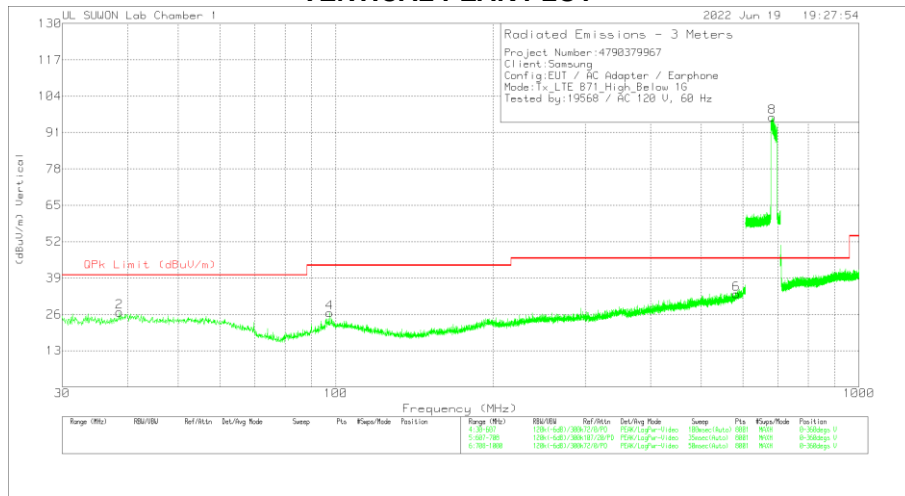
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(644.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G_Bypass[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 38.9435 | 2.67 | Pk | 18.4 | 1.3 | 22.37 | 40 | -17.63 | 0-360 | 200 | H |
| 3 | 96.6435 | 5.33 | Pk | 17 | 2 | 24.33 | 43.52 | -19.19 | 0-360 | 200 | H |
| 5 | 585.7231 | 4.03 | Pk | 24.8 | 5 | 33.83 | 46.02 | -12.19 | 0-360 | 100 | H |
| 7 | 684.3534 | 69.65 | Pk | 25.6 | 5.4 | 100.65 | 46.02 | 54.63 | 0-360 | 200 | H |
| 2 | 38.5829 | 7.26 | PK | 18.2 | 1.3 | 26.76 | 40 | -13.24 | 0-360 | 200 | V |
| 4 | 97.3648 | 7.29 | PK | 17.2 | 2 | 26.49 | 43.52 | -17.03 | 0-360 | 200 | V |
| 6 | 582.9824 | 3.58 | PK | 24.7 | 5 | 33.28 | 46.02 | -12.74 | 0-360 | 400 | V |
| 8 | 682.5606 | 65.44 | PK | 25.6 | 5.4 | 96.44 | 46.02 | 50.42 | 0-360 | 100 | V |

Pk - Peak detector

Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

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 |

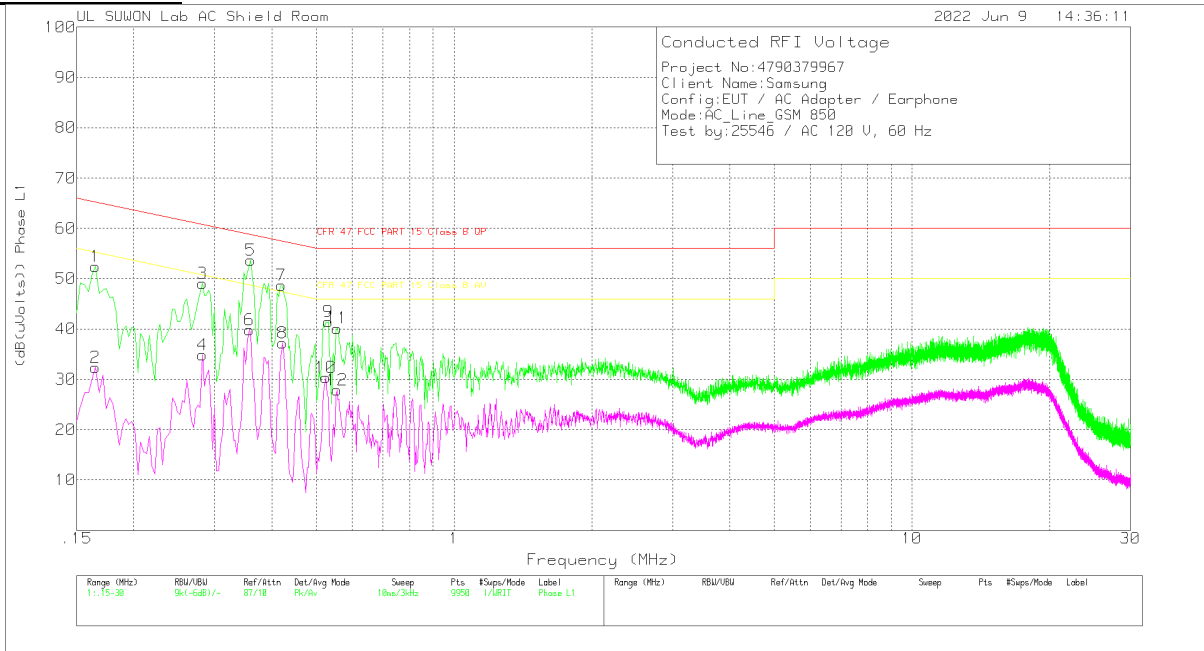
Notes:
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2.1 CONDUCTED EMISSIONS

6 WORST EMISSIONS(GSM850 + Rear camera on)

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_With 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 | .165 | 42.44 | Pk | 9.9 | .1 | 52.44 | 65.21 | -12.77 | - | - |
| 2 | .165 | 22.32 | Av | 9.9 | .1 | 32.32 | - | - | 55.21 | -22.89 |
| 3 | .282 | 39.21 | Pk | 9.7 | .2 | 49.11 | 60.76 | -11.65 | - | - |
| 4 | .282 | 24.99 | Av | 9.7 | .2 | 34.89 | - | - | 50.76 | -15.87 |
| 5 | .36 | 43.71 | Pk | 9.8 | .2 | 53.71 | 58.73 | -5.02 | - | - |
| 6 | .357 | 29.84 | Av | 9.8 | .2 | 39.84 | - | - | 48.8 | -8.96 |
| 7 | .42 | 38.63 | Pk | 9.8 | .2 | 48.63 | 57.45 | -8.82 | - | - |
| 8 | .423 | 27.21 | Av | 9.8 | .2 | 37.21 | - | - | 47.39 | -10.18 |
| 9 | .531 | 31.39 | Pk | 9.9 | .2 | 41.49 | 56 | -14.51 | - | - |
| 10 | .525 | 20.22 | Av | 9.9 | .2 | 30.32 | - | - | 46 | -15.68 |
| 11 | .555 | 30.15 | Pk | 9.8 | .2 | 40.15 | 56 | -15.85 | - | - |
| 12 | .555 | 17.83 | Av | 9.8 | .2 | 27.83 | - | - | 46 | -18.17 |

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

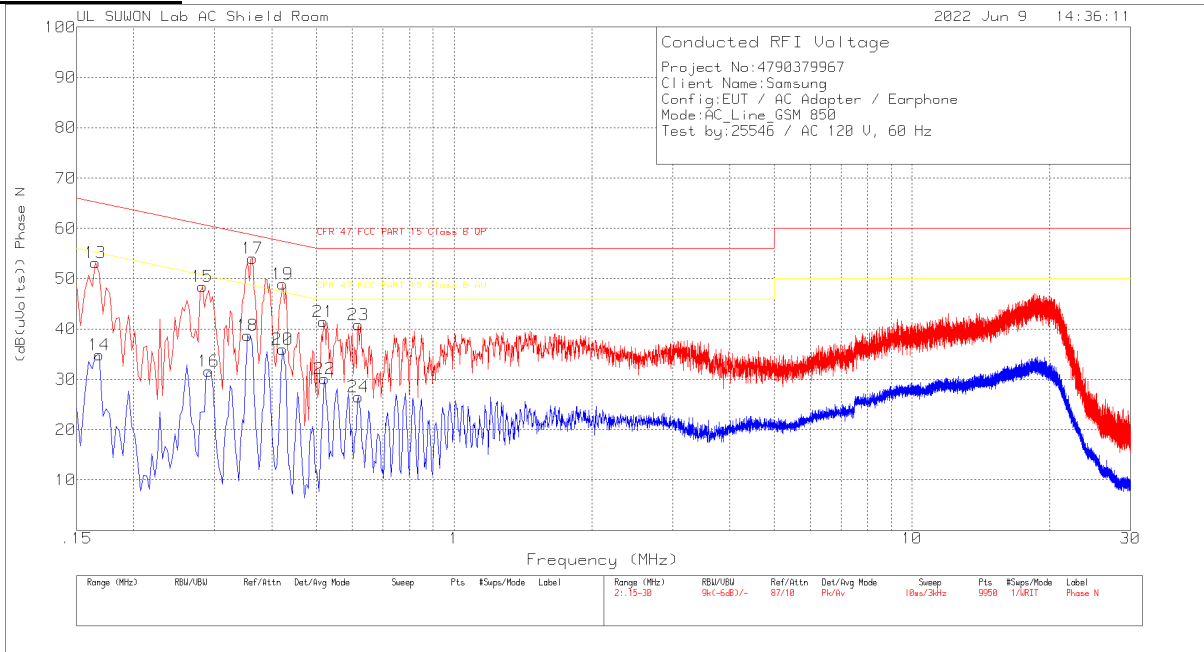
| Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_With EX_L1[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|-----------------|----------------------|-----|-----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| .28275 | 37.79 | Qp | 9.7 | .2 | 47.69 | 60.73 | -13.04 | - | - |
| .35925 | 41.04 | Qp | 9.8 | .2 | 51.04 | 58.75 | -7.71 | - | - |
| .42075 | 36.67 | Qp | 9.8 | .2 | 46.67 | 57.43 | -10.76 | - | - |

Qp - Quasi-Peak detector

6 WORST EMISSIONS(GSM850 + Rear camera on)

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 | .165 | 43.21 | Pk | 9.9 | .1 | 53.21 | 65.21 | -12 | - | - |
| 14 | .168 | 24.71 | Av | 10 | .1 | 34.81 | - | - | 55.06 | -20.25 |
| 15 | .282 | 38.56 | Pk | 9.7 | .2 | 48.46 | 60.76 | -12.3 | - | - |
| 16 | .291 | 21.75 | Av | 9.7 | .2 | 31.65 | - | - | 50.5 | -18.85 |
| 17 | .363 | 44.05 | Pk | 9.8 | .2 | 54.05 | 58.66 | -4.61 | - | - |
| 18 | .354 | 28.72 | Av | 9.8 | .2 | 38.72 | - | - | 48.87 | -10.15 |
| 19 | .423 | 38.89 | Pk | 9.8 | .2 | 48.89 | 57.39 | -8.5 | - | - |
| 20 | .423 | 25.92 | Av | 9.8 | .2 | 35.92 | - | - | 47.39 | -11.47 |
| 21 | .519 | 31.41 | Pk | 9.9 | .2 | 41.51 | 56 | -14.49 | - | - |
| 22 | .522 | 19.98 | Av | 9.9 | .2 | 30.08 | - | - | 46 | -15.92 |
| 23 | .618 | 30.78 | Pk | 9.8 | .2 | 40.78 | 56 | -15.22 | - | - |
| 24 | .618 | 16.53 | Av | 9.8 | .2 | 26.53 | - | - | 46 | -19.47 |

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) |
|-----------------|----------------------|-----|----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| .28215 | 36.53 | Qp | 9.7 | .2 | 46.43 | 60.75 | -14.32 | - | - |
| .36225 | 40.32 | Qp | 9.8 | .2 | 50.32 | 58.68 | -8.36 | - | - |
| .42315 | 37.42 | Qp | 9.8 | .2 | 47.42 | 57.39 | -9.97 | - | - |

Qp - Quasi-Peak detector

END OF TEST REPORT