



CERTIFICATION TEST REPORT

Report Number. : 4790430333-E1V1

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

Model : SM-T638U

FCC ID : A3LSMT638U

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

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

Date Of Issue:

2022-08-11

Prepared by:

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and NFC.
MODEL NUMBER: SM-T638U
SERIAL NUMBER: R32T6000LHL, R32T6000DYA (RADIATED)
DATE TESTED: 2022-07-11 ~ 2022-07-22;

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:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 28.9 \text{ dBuV/m} &= 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB}. \end{aligned}$$

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 115:2021.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

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

5.2. TEST MODE

Mode	RX Frequency range (MHz)	Description
WCDMA BAND 5	869 – 894	Communicating with Call simulator(CMW500)
LTE BAND 12	729 – 746	Communicating with Call simulator(CMW500)
LTE BAND 13	746 – 756	Communicating with Call simulator(CMW500)
LTE BAND 14	758 – 768	Communicating with Call simulator(CMW500)
LTE BAND 26	859 – 894	Communicating with Call simulator(CMW500)
LTE BAND 71	617 – 652	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, Y and Z, it was determined that below orientation was worst-case orientation for each band.

i. Worst Axis Condition

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

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 LTE Band 5(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-TA200	R37N6K421B2SE3	N/A
Data Cable	SAMSUNG	EP-DT725BWE	GH39-02020A	N/A
Charger	SAMSUNG	EP-TA800	R37N3MAH988DK3	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02115A	N/A
Earphone	SAMSUNG	GH59-15055A	EHS64AVFWE	N/A

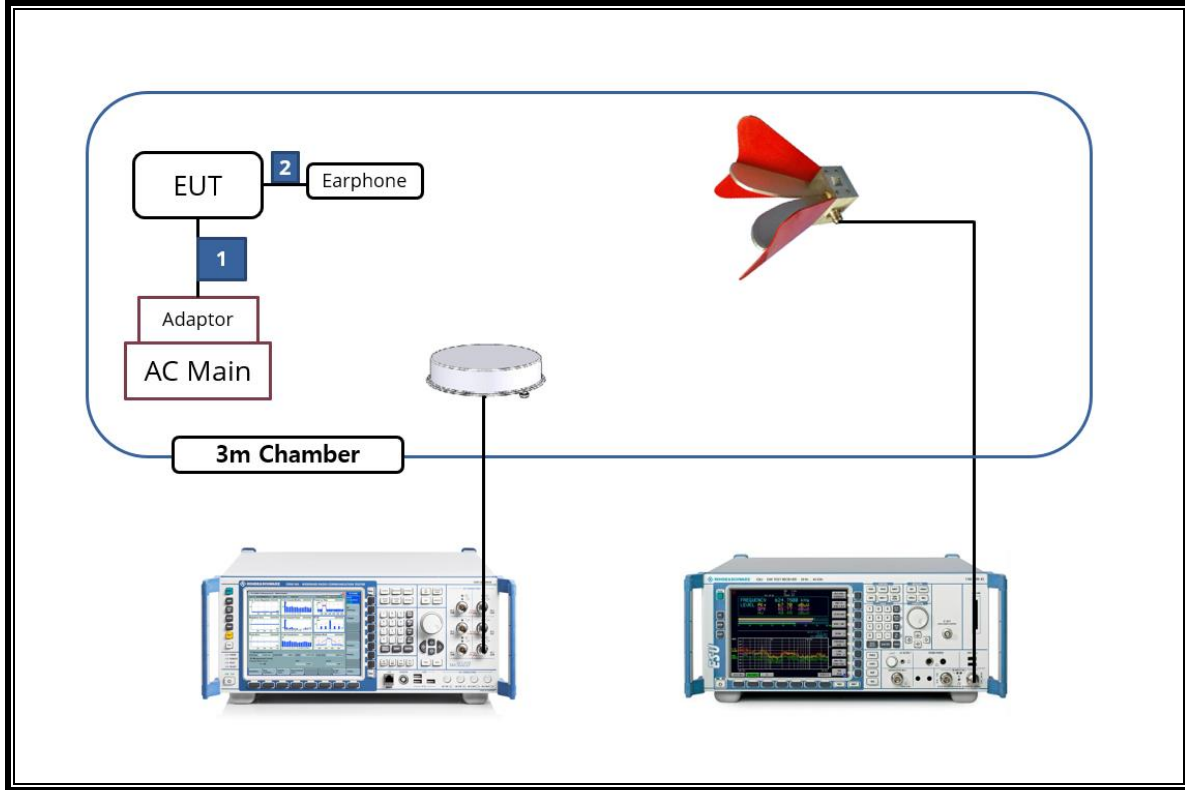
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	A to C Type	Shielded	1.0 m	N/A
2	DC Power	1	C to C Type	Shielded	1.0 m	N/A
3	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
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2022-08-04
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3116C-PA	00168841	2023-08-04
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
Communications Test Set	R&S	CMW500	169796	2023-01-07
Preamplifier, 1000 MHz	Sonoma	310N	341282	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029168	2023-08-01
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2023-08-01
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2023-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2023-07-29
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2023-08-01
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2023-08-02
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2023-08-01
Attenuator	PASTERNAK	PE7087-10	A009	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A001	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2023-08-03
Attenuator	PASTERNAK	PE7004-10	2	2023-08-01
Attenuator	PASTERNAK	PE7395-10	A011	2023-08-03
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2023-08-01
LISN	R&S	ENV-216	101836	2023-08-04
LISN	R&S	ENV-216	101837	2023-08-04
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58010202	2023-01-07
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. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

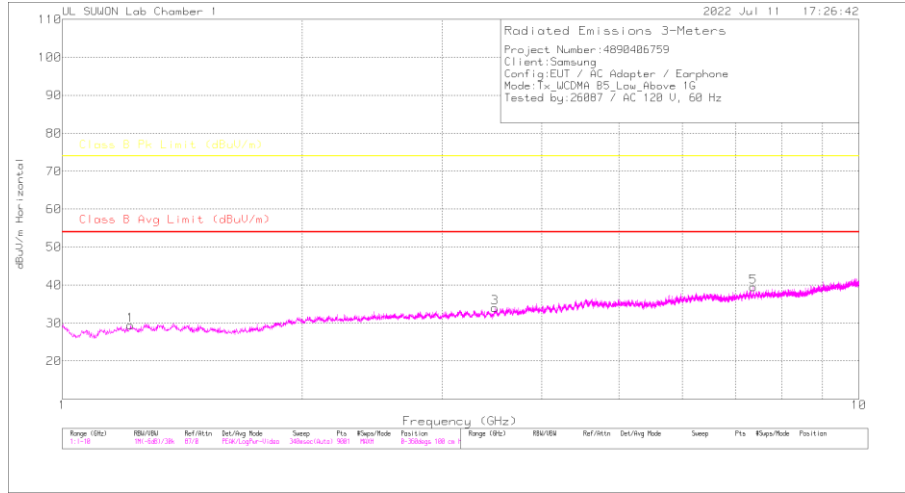
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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.	

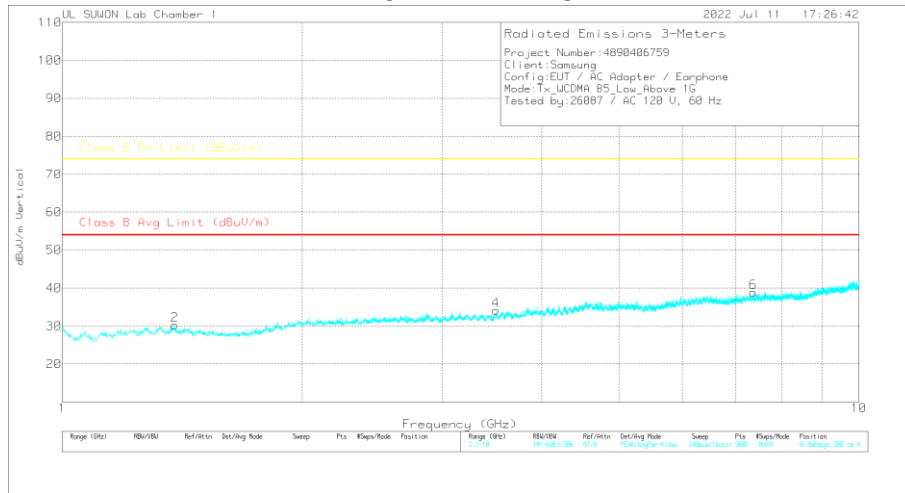
7.1.1. Above 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

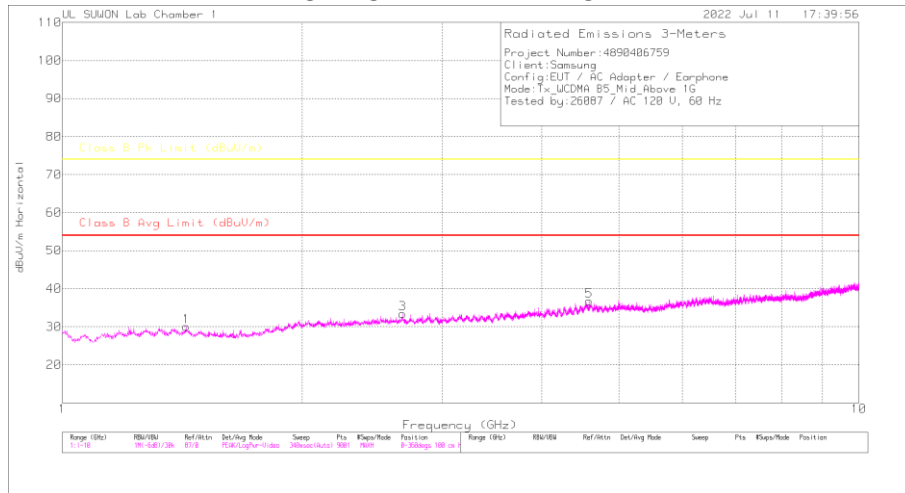
Radiated Emissions

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 (Degree)	Height (cm)	Polarity
1.218	43.93	Pk	28.7	-37.3	1.1	36.43	-	-	74	-37.57	0	100	H
1.218	31.91	Ca	28.7	-37.3	1.1	24.41	54	-29.59	-	-	0	100	H
1.384	43.17	Pk	29.4	-36.9	.8	36.47	-	-	74	-37.53	0	100	V
1.384	31.49	Ca	29.4	-36.9	.8	24.79	54	-29.21	-	-	0	100	V
3.491	40.42	Pk	32.8	-33	.5	40.72	-	-	74	-33.28	0	100	H
3.491	28.31	Ca	32.8	-33	.5	28.61	54	-25.39	-	-	0	100	H
3.501	41.07	Pk	32.8	-33.1	.5	41.27	-	-	74	-32.73	0	100	V
3.501	28.48	Ca	32.8	-33.1	.5	28.68	54	-25.32	-	-	0	100	V
7.371	37.19	Pk	35.8	-27.8	.4	45.59	-	-	74	-28.41	0	100	H
7.371	25.51	Ca	35.8	-27.8	.4	33.91	54	-20.09	-	-	0	100	H
7.371	37.98	Pk	35.8	-27.8	.4	46.38	-	-	74	-27.62	0	100	V
7.371	25.52	Ca	35.8	-27.8	.4	33.92	54	-20.08	-	-	0	100	V

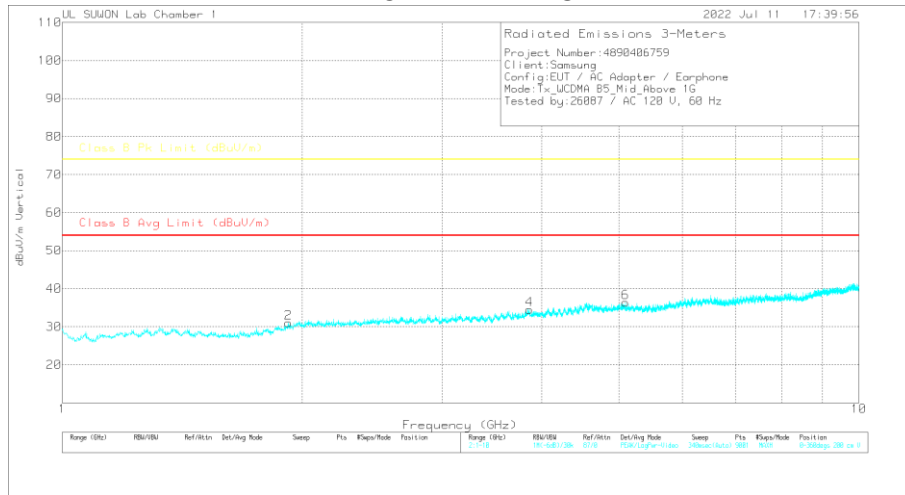
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

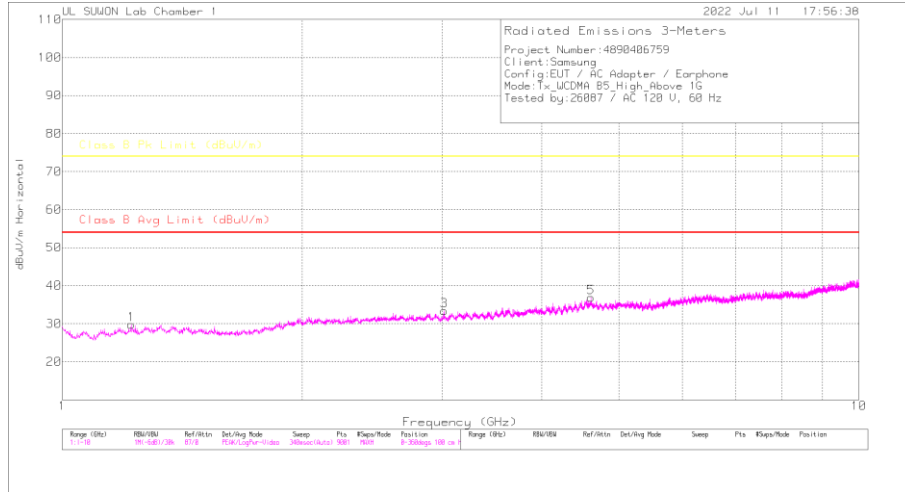
Radiated Emissions

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
1.43	43.09	Pk	29.3	-36.9	.8	36.29	-	-	74	-37.71	0	100	H
1.43	31.37	Ca	29.3	-36.9	.8	24.57	54	-29.43	-	-	0	100	H
1.924	41.86	Pk	30.9	-35.8	.6	37.56	-	-	74	-36.44	0	100	V
1.924	30.3	Ca	30.9	-35.8	.6	26	54	-28	-	-	0	100	V
2.673	41.24	Pk	32.1	-34.4	.7	39.64	-	-	74	-34.36	0	100	H
2.673	29.2	Ca	32.1	-34.4	.7	27.6	54	-26.4	-	-	0	100	H
3.86	40.45	Pk	33.3	-32.8	.7	41.65	-	-	74	-32.35	0	100	V
3.86	28.62	Ca	33.3	-32.8	.7	29.82	54	-24.18	-	-	0	100	V
4.584	39.19	Pk	34.2	-32	.6	41.99	-	-	74	-32.01	0	100	H
4.584	27.39	Ca	34.2	-32	.6	30.19	54	-23.81	-	-	0	100	H
5.097	39.29	Pk	34.2	-31.6	.5	42.39	-	-	74	-31.61	0	100	V
5.097	27.64	Ca	34.2	-31.6	.5	30.74	54	-23.26	-	-	0	100	V

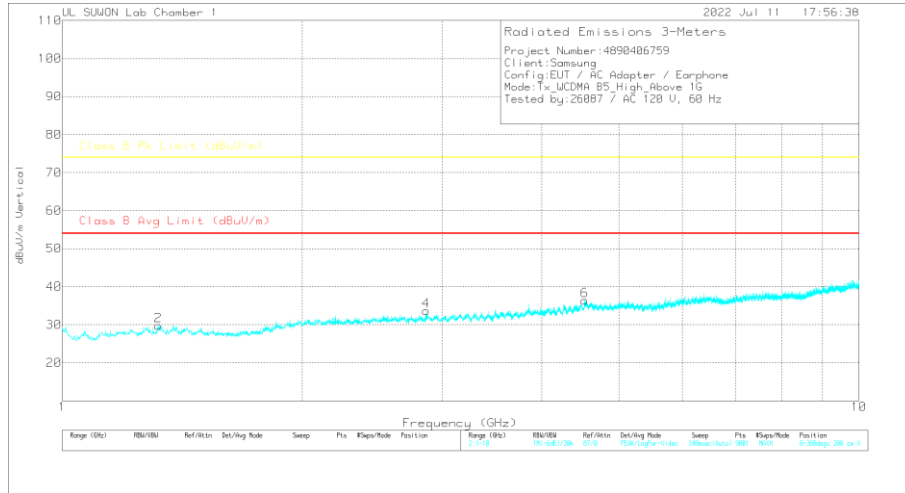
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(891.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

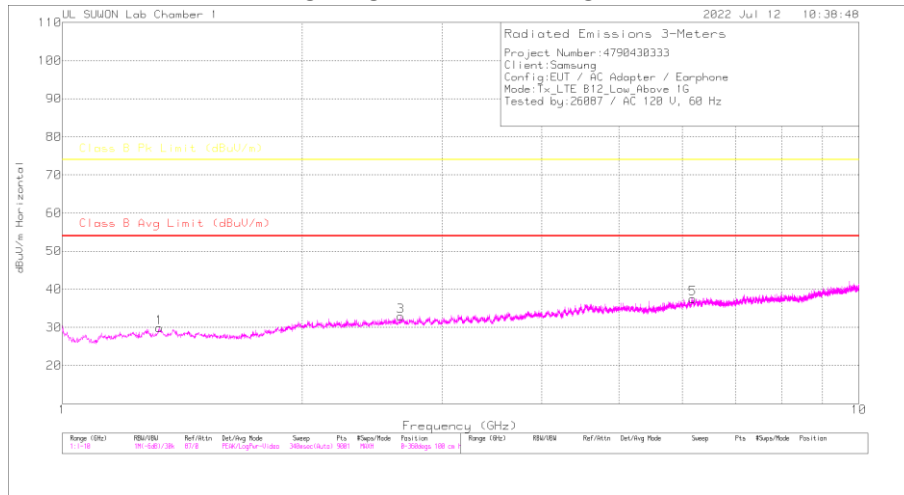
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.221	42.98	Pk	28.7	-37.3	1.1	35.48	-	-	74	-38.52	0	100	H
1.221	31.37	Ca	28.7	-37.3	1.1	23.87	54	-30.13	-	-	0	100	H
1.32	43.64	Pk	29.5	-37.1	.9	36.94	-	-	74	-37.06	0	100	V
1.32	31.03	Ca	29.5	-37.1	.9	24.33	54	-29.67	-	-	0	100	V
3.015	39.98	Pk	32.4	-34	.4	38.78	-	-	74	-35.22	0	100	H
3.015	28.38	Ca	32.4	-34	.4	27.18	54	-26.82	-	-	0	100	H
2.865	40.56	Pk	32.3	-34	.7	39.56	-	-	74	-34.44	0	100	V
2.865	28.36	Ca	32.3	-34	.7	27.36	54	-26.64	-	-	0	100	V
4.61	39.21	Pk	34.2	-32	.5	41.91	-	-	74	-32.09	0	100	H
4.61	27.57	Ca	34.2	-32	.5	30.27	54	-23.73	-	-	0	100	H
4.526	38.74	Pk	34.2	-32.1	.6	41.44	-	-	74	-32.56	0	100	V
4.526	27.45	Ca	34.2	-32.1	.6	30.15	54	-23.85	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

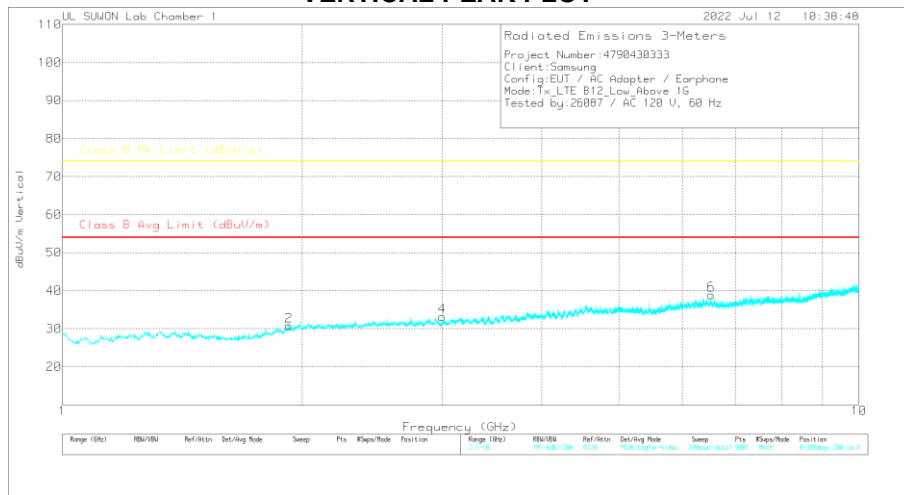
7.1.2. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

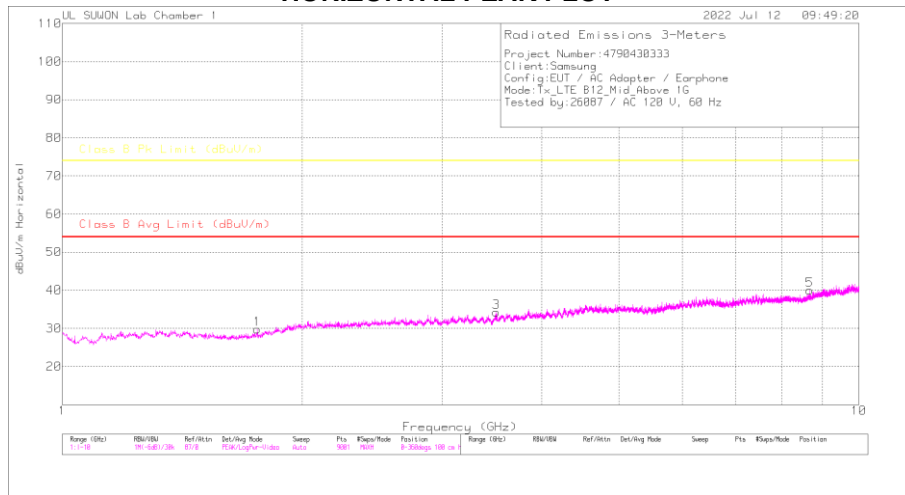
Radiated Emissions

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)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.323	43.54	Pk	29.5	-37.1	.9	36.84	-	-	74	-37.16	0	100	H
1.323	31.42	Ca	29.5	-37.1	.9	24.72	54	-29.28	-	-	0	100	H
1.926	42.05	Pk	30.9	-35.8	.6	37.75	-	-	74	-36.25	0	100	V
1.926	30.16	Ca	30.9	-35.8	.6	25.86	54	-28.14	-	-	0	100	V
2.66	41.21	Pk	32.1	-34.6	.8	39.51	-	-	74	-34.49	0	100	H
2.66	29.05	Ca	32.1	-34.6	.8	27.35	54	-26.65	-	-	0	100	H
2.999	40.72	Pk	32.4	-34	.4	39.52	-	-	74	-34.48	0	100	V
2.999	28.37	Ca	32.4	-34	.4	27.17	54	-26.83	-	-	0	100	V
6.189	39.77	Pk	35.4	-29.9	.6	45.87	-	-	74	-28.13	0	100	H
6.189	26.69	Ca	35.4	-29.9	.6	32.79	54	-21.21	-	-	0	100	H
6.526	37.73	Pk	35.4	-29.2	.6	44.53	-	-	74	-29.47	0	100	V
6.526	25.89	Ca	35.4	-29.2	.6	32.69	54	-21.31	-	-	0	100	V

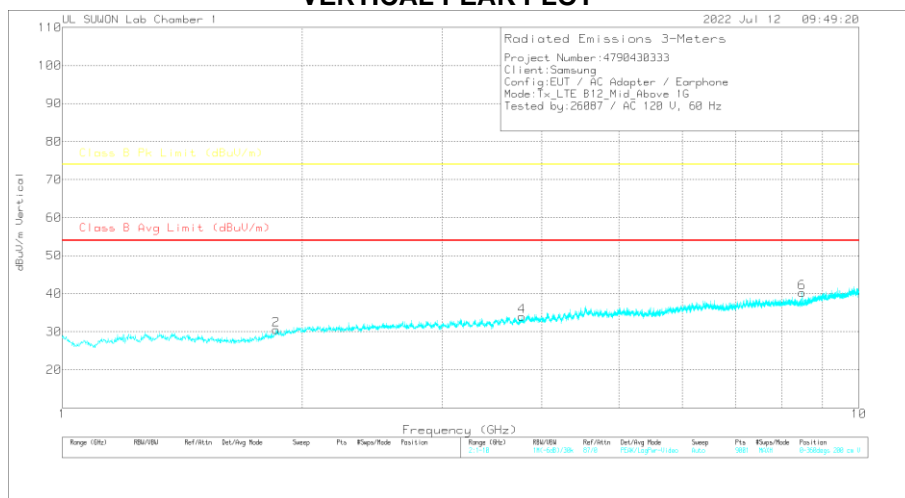
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

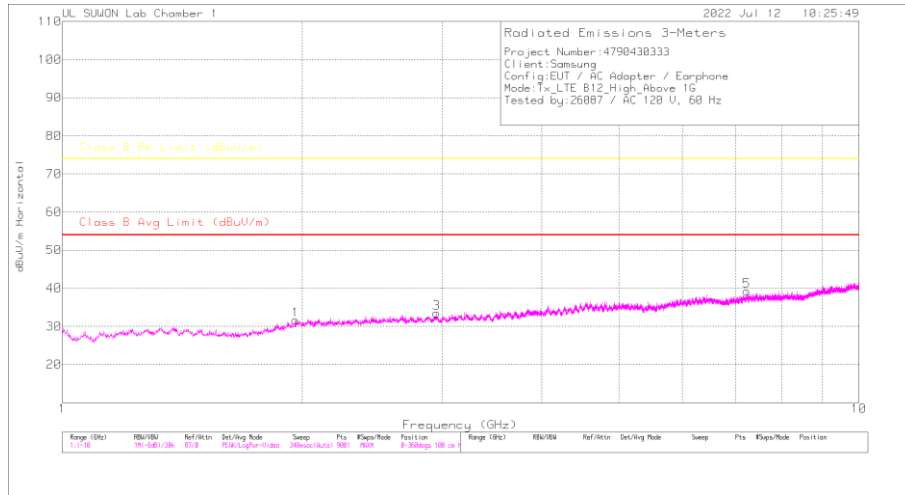
Radiated Emissions

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
1.758	43.42	Pk	29.1	-36.2	.6	36.92	-	-	74	-37.08	360	100	H
1.758	30.48	Ca	29.1	-36.2	.6	23.98	54	-30.02	-	-	360	100	H
1.856	42.62	Pk	30.2	-36	.6	37.42	-	-	74	-36.58	360	100	V
1.856	30.44	Ca	30.2	-36	.6	25.24	54	-28.76	-	-	360	100	V
3.504	40.4	Pk	32.8	-33.2	.5	40.5	-	-	74	-33.5	360	100	H
3.504	28.3	Ca	32.8	-33.2	.5	28.4	54	-25.6	-	-	360	100	H
3.773	40.82	Pk	33.1	-33	.5	41.42	-	-	74	-32.58	360	100	V
3.773	28.79	Ca	33.1	-33	.5	29.39	54	-24.61	-	-	360	100	V
8.672	34.73	Pk	36.3	-25.7	.5	45.83	-	-	74	-28.17	360	100	H
8.672	22.99	Ca	36.3	-25.7	.5	34.09	54	-19.91	-	-	360	100	H
8.491	35.5	Pk	36.2	-25.8	.5	46.4	-	-	74	-27.6	360	100	V
8.491	22.98	Ca	36.2	-25.8	.5	33.88	54	-20.12	-	-	360	100	V

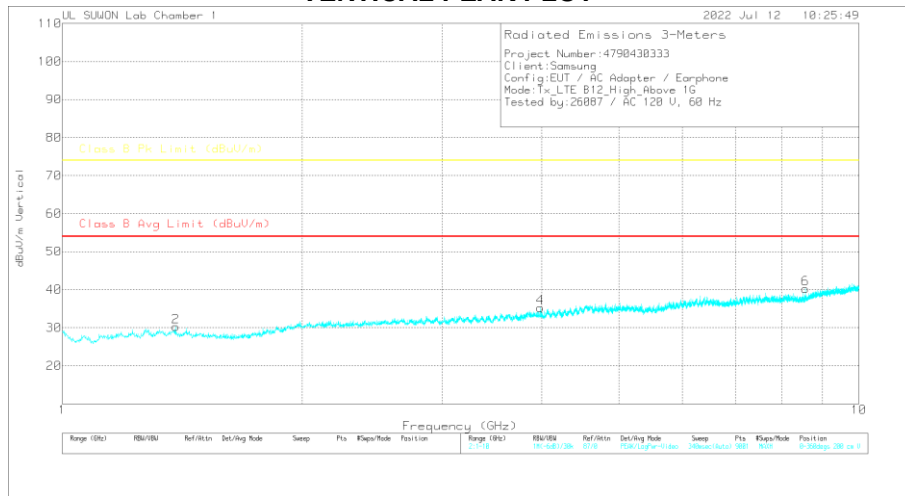
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

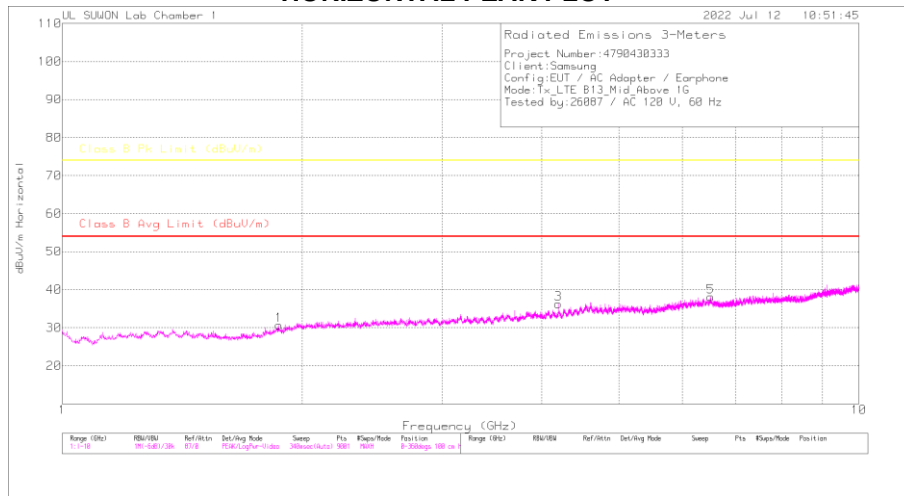
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.962	42.15	Pk	31.2	-35.7	.6	38.25	-	-	74	-35.75	0	100	H
1.962	29.94	Ca	31.2	-35.7	.6	26.04	54	-27.96	-	-	0	100	H
1.388	43.12	Pk	29.4	-37	.8	36.32	-	-	74	-37.68	0	100	V
1.388	31.18	Ca	29.4	-37	.8	24.38	54	-29.62	-	-	0	100	V
2.95	40.64	Pk	32.3	-34	.6	39.54	-	-	74	-34.46	0	100	H
2.95	28.89	Ca	32.3	-34	.6	27.79	54	-26.21	-	-	0	100	H
3.984	39.46	Pk	33.4	-32.6	.5	40.76	-	-	74	-33.24	0	100	V
3.984	27.84	Ca	33.4	-32.6	.5	29.14	54	-24.86	-	-	0	100	V
7.231	36.61	Pk	35.9	-27.9	.5	45.11	-	-	74	-28.89	0	100	H
7.231	25.04	Ca	35.9	-27.9	.5	33.54	54	-20.46	-	-	0	100	H
8.563	35.92	Pk	36.2	-25.8	.6	46.92	-	-	74	-27.08	0	100	V
8.563	23.49	Ca	36.2	-25.8	.6	34.49	54	-19.51	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

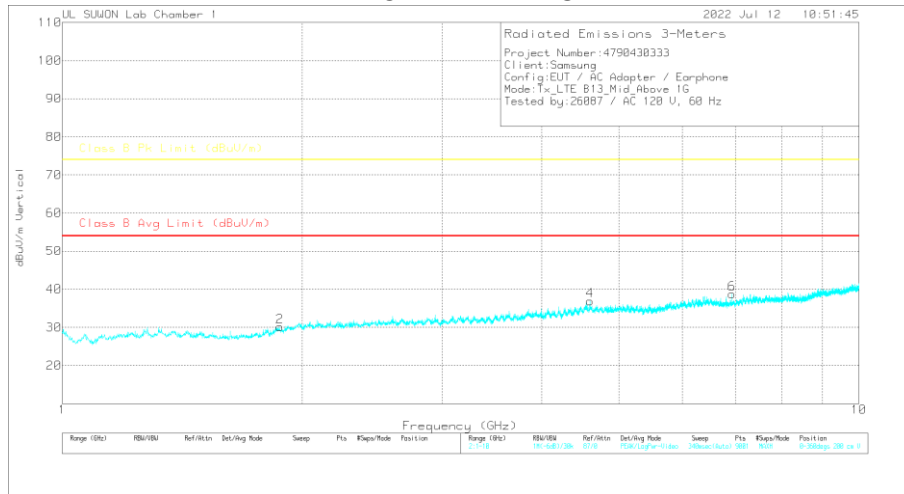
7.1.3. Above 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

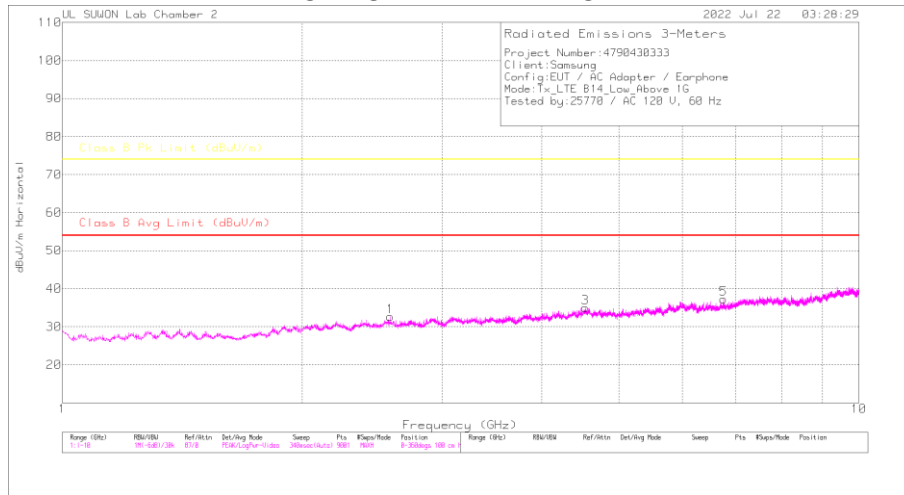
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871_7	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.87	42.06	Pk	30.4	-36.1	.6	36.96	54	-	74	-37.04	0	100	H
1.87	30.28	Ca	30.4	-36.1	.6	25.18	54	-28.82	-	-	0	100	H
1.876	42.88	Pk	30.4	-36	.6	37.88	-	-	74	-36.12	0	100	V
1.876	30.03	Ca	30.4	-36	.6	25.03	54	-28.97	-	-	0	100	V
4.193	40.16	Pk	33.6	-32.3	.5	41.96	-	-	74	-32.04	0	100	H
4.193	28.24	Ca	33.6	-32.3	.5	30.04	54	-23.96	-	-	0	100	H
4.594	40.11	Pk	34.2	-31.9	.5	42.91	-	-	74	-31.09	0	100	V
4.594	27.49	Ca	34.2	-31.9	.5	30.29	54	-23.71	-	-	0	100	V
6.513	37.67	Pk	35.4	-29.2	.6	44.47	-	-	74	-29.53	0	100	H
6.513	26.06	Ca	35.4	-29.2	.6	32.86	54	-21.14	-	-	0	100	H
6.927	36.97	Pk	35.6	-28.7	.5	44.37	-	-	74	-29.63	0	100	V
6.927	24.98	Ca	35.6	-28.7	.5	32.38	54	-21.62	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

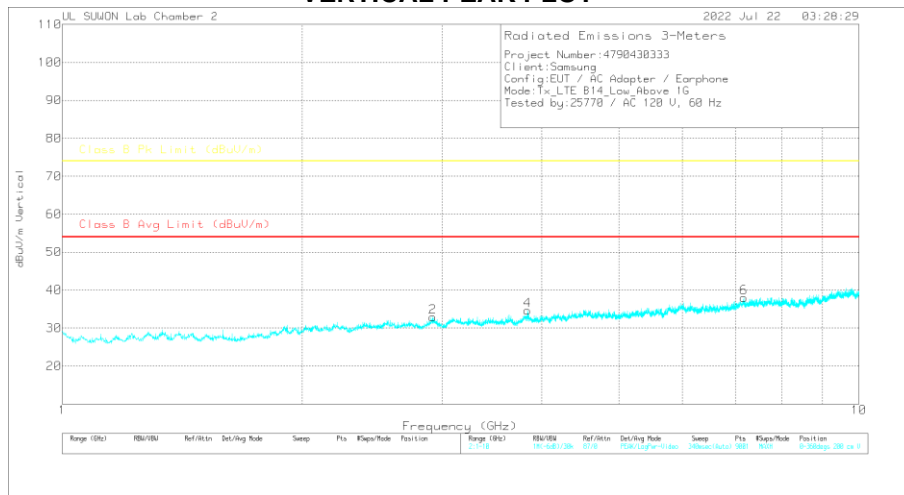
7.1.4. Above 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

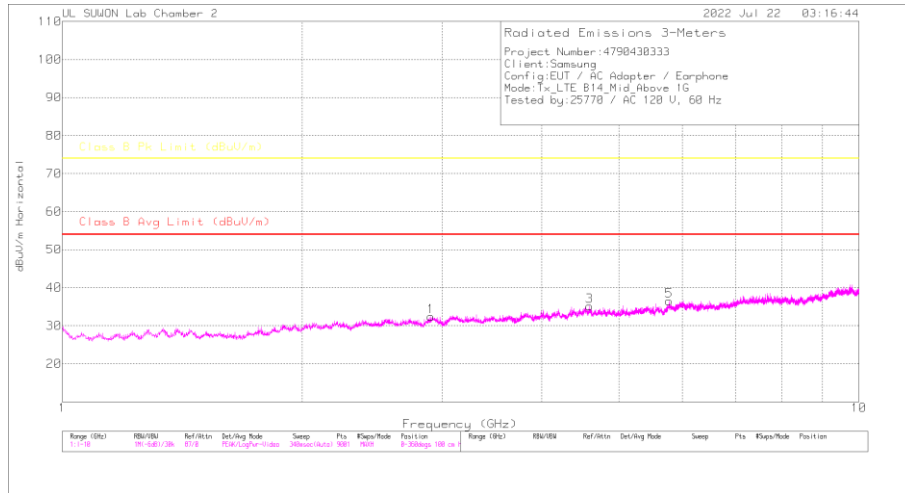
Radiated Emissions

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
2.581	36.32	Pk	32.2	-30	.7	39.22	-	-	74	-34.78	0	100	H
2.581	23.98	Ca	32.2	-30	.7	26.88	54	-27.12	-	-	0	100	H
2.917	36.64	Pk	32.4	-30	.8	39.84	-	-	74	-34.16	0	100	V
2.917	24.41	Ca	32.4	-30	.8	27.61	54	-26.39	-	-	0	100	V
4.534	35.87	Pk	34.1	-28.5	.5	41.97	-	-	74	-32.03	0	100	H
4.534	24.09	Ca	34.1	-28.5	.5	30.19	54	-23.81	-	-	0	100	H
3.839	35.73	Pk	33.4	-29.1	.6	40.63	-	-	74	-33.37	0	100	V
3.839	23.92	Ca	33.4	-29.1	.6	28.82	54	-25.18	-	-	0	100	V
6.762	34.32	Pk	35.6	-25.8	.4	44.52	-	-	74	-29.48	0	100	H
6.762	22.08	Ca	35.6	-25.8	.4	32.28	54	-21.72	-	-	0	100	H
7.17	34.85	Pk	36.1	-25.4	.4	45.95	-	-	74	-28.05	0	100	V
7.17	22.29	Ca	36.1	-25.4	.4	33.39	54	-20.61	-	-	0	100	V

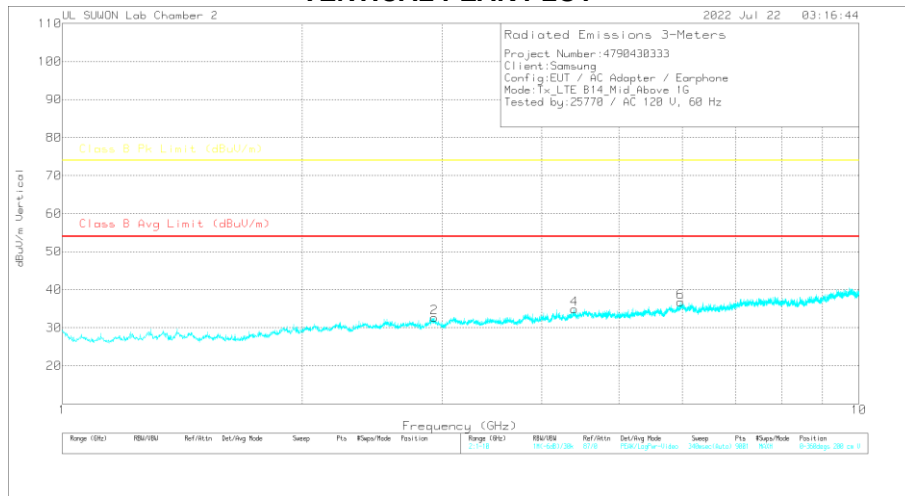
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(763.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

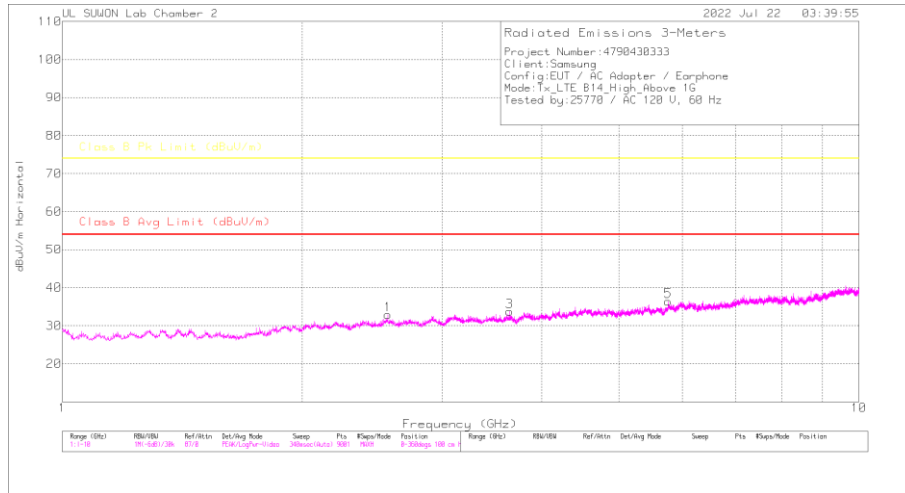
Radiated Emissions

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
2.901	36.51	Pk	32.3	-29.9	.8	39.71	-	-	74	-34.29	0	100	H
2.901	24.13	Ca	32.3	-29.9	.8	27.33	54	-26.67	-	-	0	100	H
2.93	36.44	Pk	32.4	-30.1	.8	39.54	-	-	74	-34.46	0	100	V
2.93	24.46	Ca	32.4	-30.1	.8	27.56	54	-26.44	-	-	0	100	V
4.588	37.28	Pk	34.1	-28.6	.5	43.28	-	-	74	-30.72	0	100	H
4.588	24.18	Ca	34.1	-28.6	.5	30.18	54	-23.82	-	-	0	100	H
4.394	37.17	Pk	33.7	-28.7	.5	42.67	-	-	74	-31.33	0	100	V
4.394	24.2	Ca	33.7	-28.7	.5	29.7	54	-24.3	-	-	0	100	V
5.78	35.09	Pk	34.8	-27.2	.6	43.29	-	-	74	-30.71	0	100	H
5.78	23.33	Ca	34.8	-27.2	.6	31.53	54	-22.47	-	-	0	100	H
5.966	35.25	Pk	35.1	-27.4	.6	43.55	-	-	74	-30.45	0	100	V
5.966	23.59	Ca	35.1	-27.4	.6	31.89	54	-22.11	-	-	0	100	V

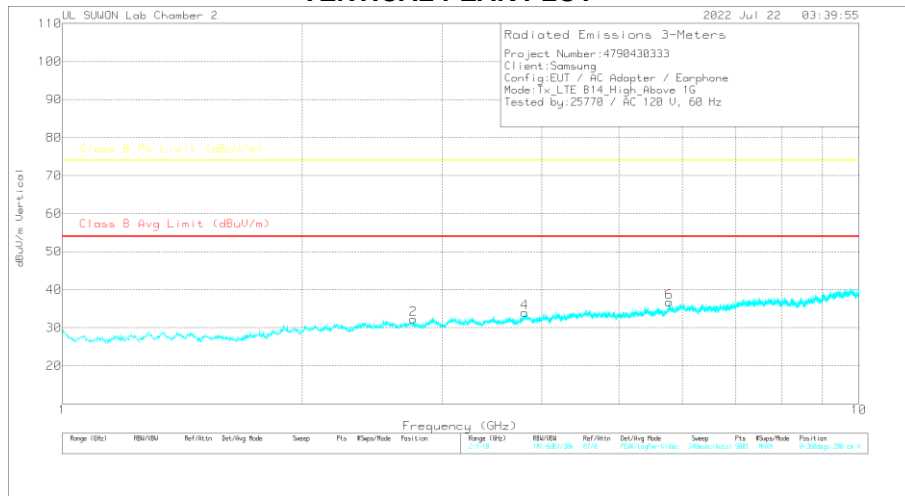
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

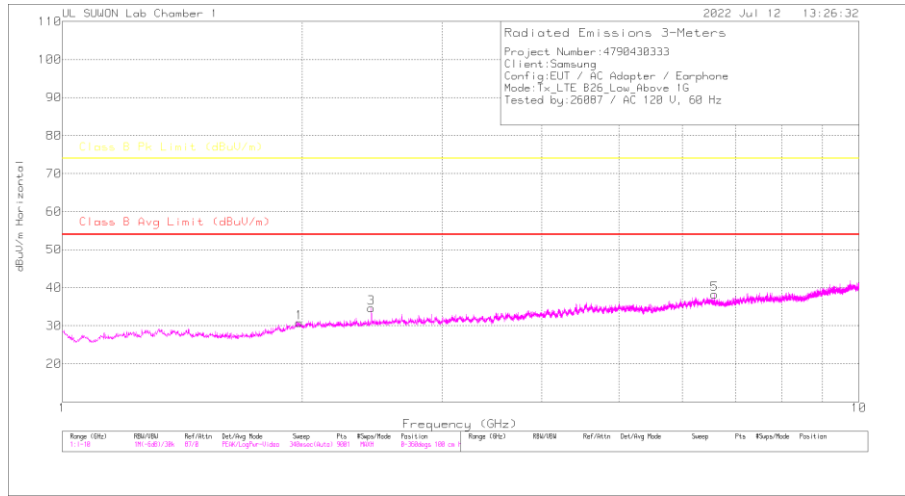
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	1-18GHz[dB]	1GHz HPF[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.563	36.02	Pk	32.2	-29.9	.7	39.02	-	-	74	-34.98	0	100	H
2.563	24.04	Ca	32.2	-29.9	.7	27.04	54	-26.96	-	-	0	100	H
2.76	35.26	Pk	32.2	-29.7	.6	38.36	-	-	74	-35.64	0	100	V
2.76	23.64	Ca	32.2	-29.7	.6	26.74	54	-27.26	-	-	0	100	V
3.644	36.65	Pk	32.9	-29.6	.7	40.65	-	-	74	-33.35	0	100	H
3.644	24.07	Ca	32.9	-29.6	.7	28.07	54	-25.93	-	-	0	100	H
3.808	36.37	Pk	33.3	-29.2	.6	41.07	-	-	74	-32.93	0	100	V
3.808	24.28	Ca	33.3	-29.2	.6	28.98	54	-25.02	-	-	0	100	V
5.762	35.48	Pk	34.8	-27.3	.5	43.48	-	-	74	-30.52	0	100	H
5.762	23.15	Ca	34.8	-27.3	.5	31.15	54	-22.85	-	-	0	100	H
5.781	35.19	Pk	34.8	-27.1	.6	43.49	-	-	74	-30.51	0	100	V
5.781	23.32	Ca	34.8	-27.1	.6	31.62	54	-22.38	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

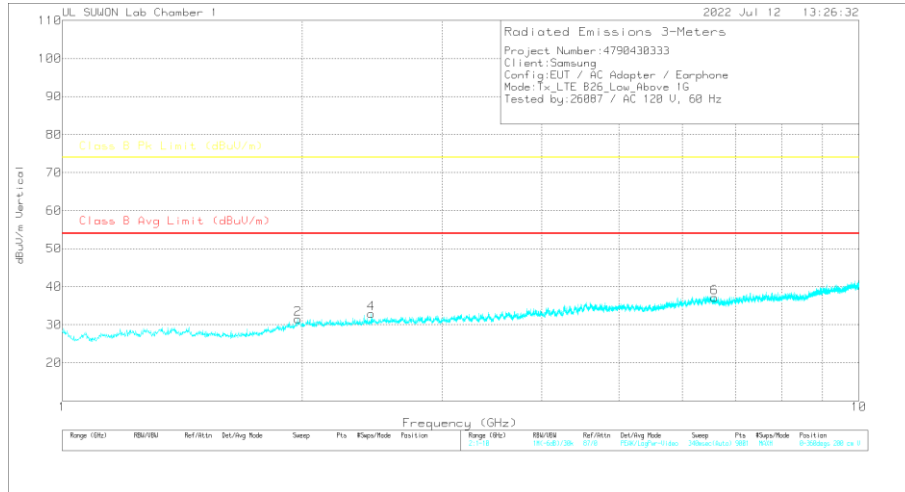
7.1.5. Above 1GHz in the LTE Band 26

LOW CHANNEL(866.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

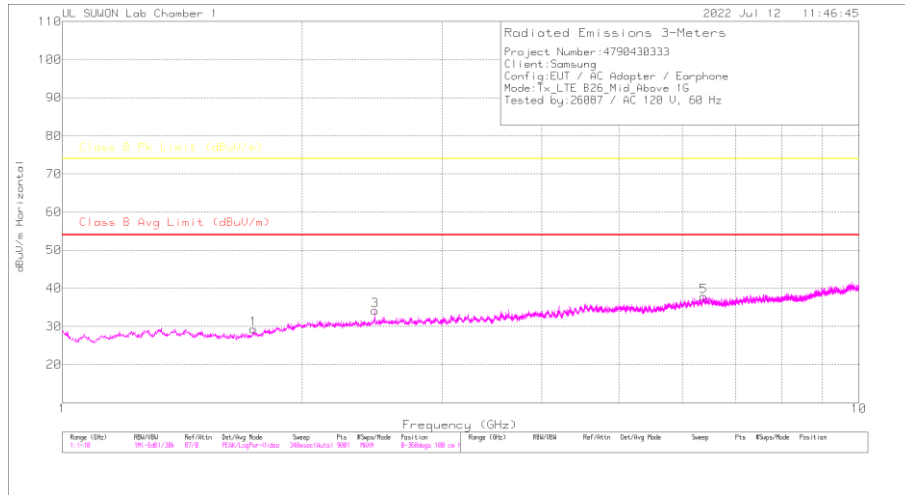
Radiated Emissions

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
1.984	42.24	Pk	31.3	-35.7	.6	38.44	54	-	74	-35.56	0	100	H
1.984	29.85	Ca	31.3	-35.7	.6	26.05	54	-27.95	-	-	0	100	H
1.976	43.06	Pk	31.3	-35.7	.6	39.26	-	-	74	-34.74	0	100	V
1.976	29.91	Ca	31.3	-35.7	.6	26.11	54	-27.89	-	-	0	100	V
2.443	40.95	Pk	31.9	-34.9	.6	38.55	-	-	74	-35.45	0	100	H
2.443	29.18	Ca	31.9	-34.9	.6	26.78	54	-27.22	-	-	0	100	H
2.444	41.42	Pk	31.9	-34.9	.6	39.02	-	-	74	-34.98	0	100	V
2.444	29.06	Ca	31.9	-34.9	.6	26.66	54	-27.34	-	-	0	100	V
6.584	37.72	Pk	35.4	-29.2	.6	44.52	-	-	74	-29.48	0	100	H
6.584	25.64	Ca	35.4	-29.2	.6	32.44	54	-21.56	-	-	0	100	H
6.59	38.27	Pk	35.4	-29.2	.6	45.07	-	-	74	-28.93	0	100	V
6.59	25.64	Ca	35.4	-29.2	.6	32.44	54	-21.56	-	-	0	100	V

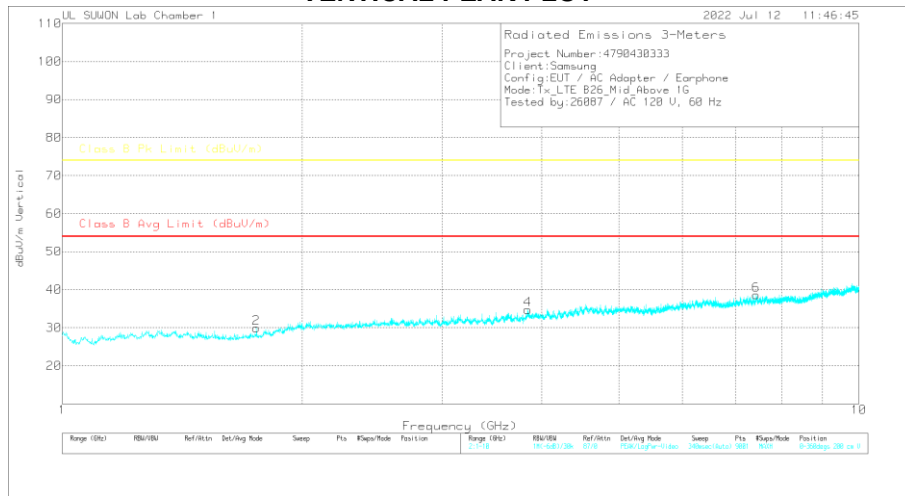
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

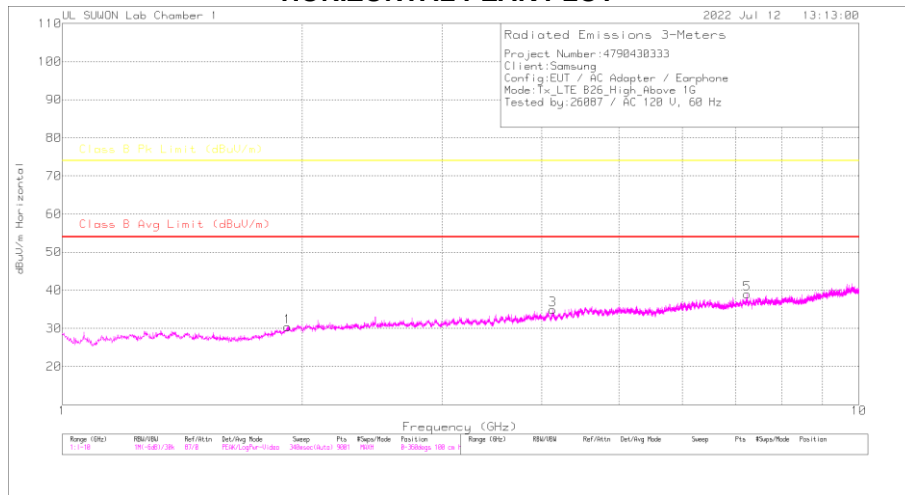
Radiated Emissions

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
1.738	42.31	Pk	28.9	-36.2	.6	35.61	-	-	74	-38.39	0	100	H
1.738	30.32	Ca	28.9	-36.2	.6	23.62	54	-30.38	-	-	0	100	H
1.753	41.81	Pk	29	-36.2	.6	35.21	-	-	74	-38.79	0	100	V
1.753	30.17	Ca	29	-36.2	.6	23.57	54	-30.43	-	-	0	100	V
2.469	42.26	Pk	31.9	-34.7	.7	40.16	-	-	74	-33.84	0	100	H
2.469	29.14	Ca	31.9	-34.7	.7	27.04	54	-26.96	-	-	0	100	H
3.84	40.65	Pk	33.2	-32.8	.7	41.75	-	-	74	-32.25	0	100	V
3.84	28.38	Ca	33.2	-32.8	.7	29.48	54	-24.52	-	-	0	100	V
6.388	37.84	Pk	35.5	-29.7	.5	44.14	-	-	74	-29.86	0	100	H
6.388	26.05	Ca	35.5	-29.7	.5	32.35	54	-21.65	-	-	0	100	H
7.433	37.28	Pk	35.8	-27.5	.5	46.08	-	-	74	-27.92	0	100	V
7.433	25.02	Ca	35.8	-27.5	.5	33.82	54	-20.18	-	-	0	100	V

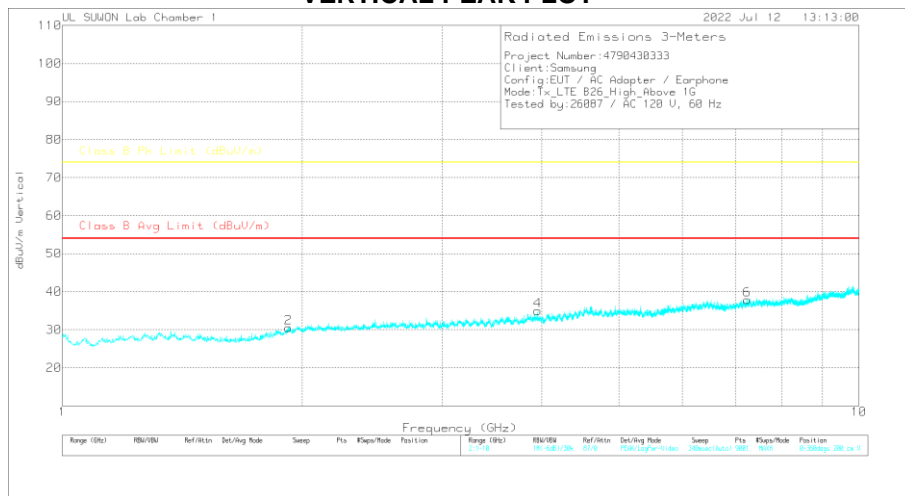
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(886.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

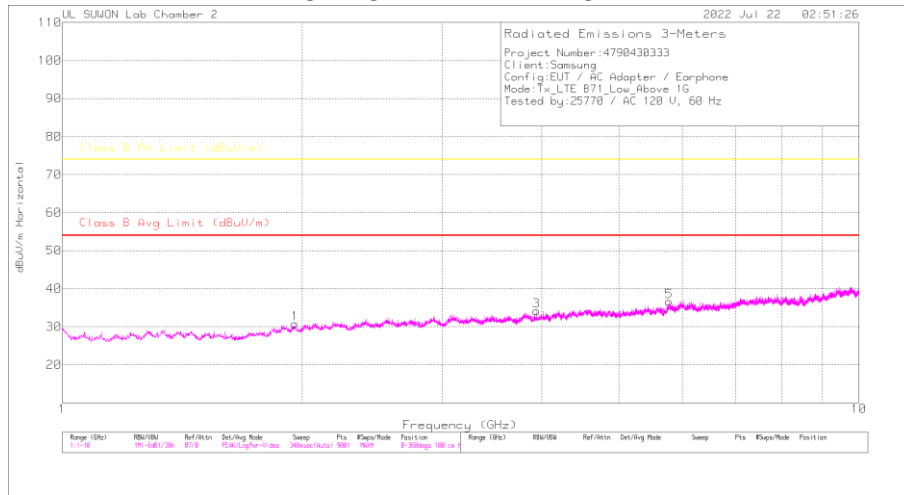
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.917	41.36	Pk	30.8	-35.9	.6	36.86	-	-	74	-37.14	0	100	H
1.917	29.89	Ca	30.8	-35.9	.6	25.39	54	-28.61	-	-	0	100	H
1.922	42.39	Pk	30.9	-35.8	.6	38.09	-	-	74	-35.91	0	100	V
1.922	29.97	Ca	30.9	-35.8	.6	25.67	54	-28.33	-	-	0	100	V
4.128	39.79	Pk	33.5	-32.4	.6	41.49	-	-	74	-32.51	0	100	H
4.128	27.82	Ca	33.5	-32.4	.6	29.52	54	-24.48	-	-	0	100	H
3.952	39.73	Pk	33.4	-32.7	.6	41.03	-	-	74	-32.97	0	100	V
3.952	27.32	Ca	33.4	-32.7	.6	28.62	54	-25.38	-	-	0	100	V
7.24	36.61	Pk	35.6	-27.9	.5	45.01	-	-	74	-28.99	0	100	H
7.24	24.86	Ca	35.6	-27.9	.5	33.26	54	-20.74	-	-	0	100	H
7.238	36.88	Pk	35.8	-27.9	.5	45.28	-	-	74	-28.72	0	100	V
7.238	24.96	Ca	35.8	-27.9	.5	33.36	54	-20.64	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

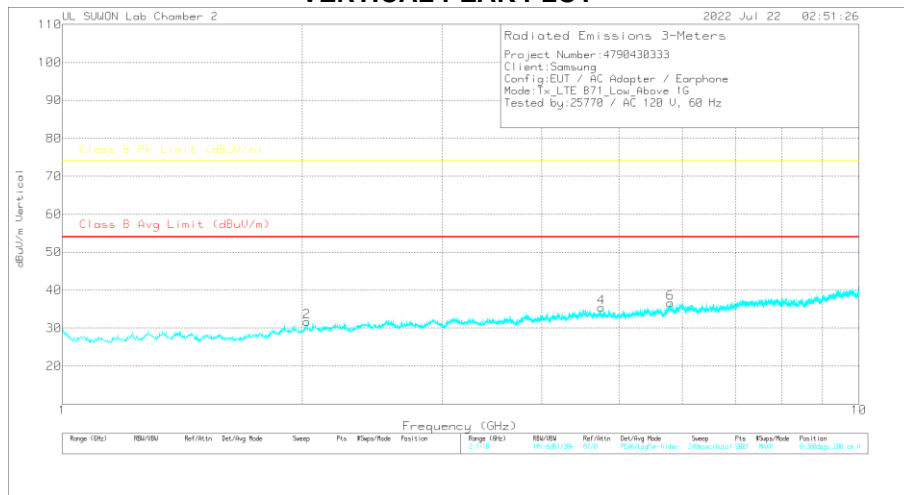
7.1.6. Above 1 GHz in the LTE Band 71

LOW CHANNEL(624.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

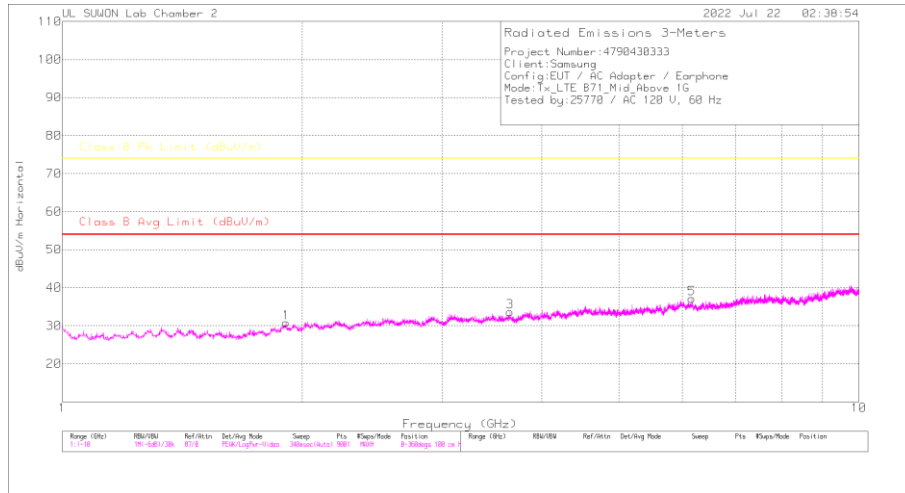
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_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
1.96	36.77	Pk	31	-30.8	.6	37.57	-	-	74	-36.43	0	100	H
1.96	24.72	Ca	31	-30.8	.6	25.52	54	-28.48	-	-	0	100	H
2.029	36.58	Pk	31.3	-30.6	.5	37.78	-	-	74	-36.22	0	100	V
2.029	24.59	Ca	31.3	-30.6	.5	25.79	54	-28.21	-	-	0	100	V
3.938	36.3	Pk	33.5	-29.6	.5	40.7	-	-	74	-33.3	0	100	H
3.938	23.86	Ca	33.5	-29.6	.5	28.26	54	-25.74	-	-	0	100	H
4.75	35.85	Pk	34.1	-28.5	.4	41.85	-	-	74	-32.15	0	100	V
4.75	23.53	Ca	34.1	-28.5	.4	29.53	54	-24.47	-	-	0	100	V
5.776	35.55	Pk	34.8	-27.1	.6	43.85	-	-	74	-30.15	0	100	H
5.776	23.37	Ca	34.8	-27.1	.6	31.67	54	-22.33	-	-	0	100	H
5.797	35.26	Pk	34.8	-27	.6	43.66	-	-	74	-30.34	0	100	V
5.797	23.03	Ca	34.8	-27	.6	31.43	54	-22.57	-	-	0	100	V

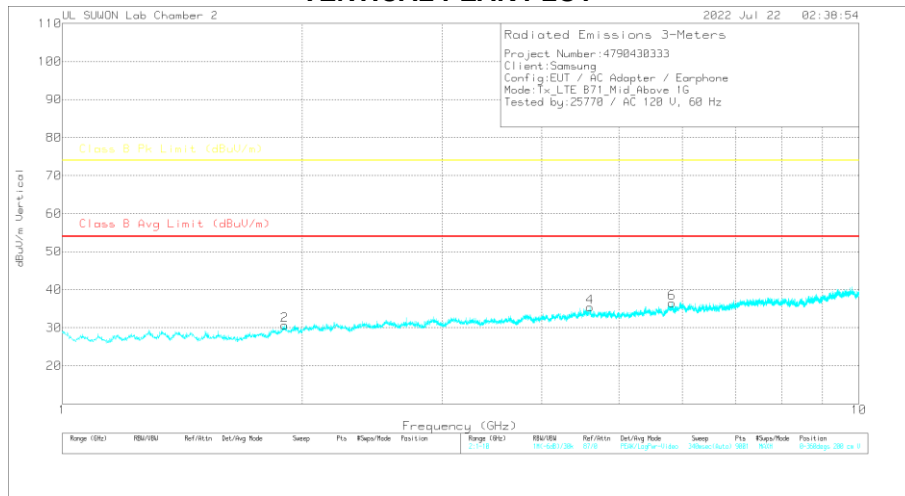
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

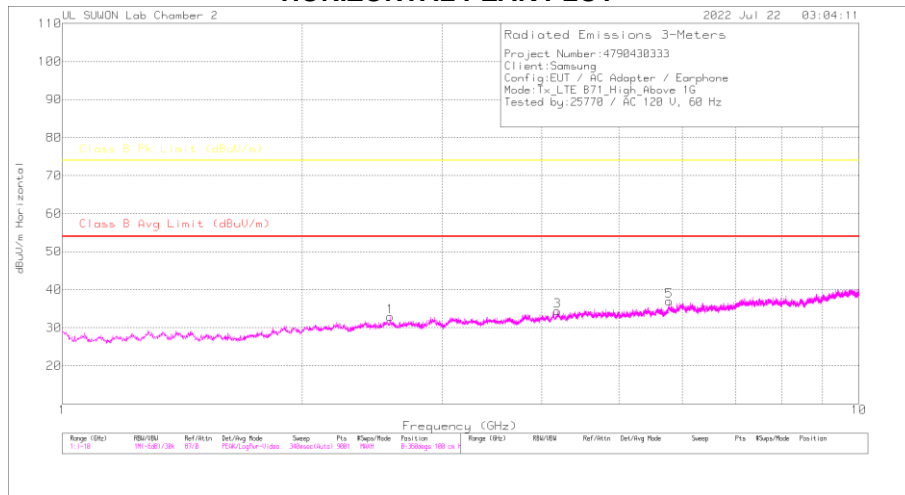
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_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
1.91	37.15	Pk	30.8	-30.7	.7	37.95	-	-	74	-36.05	0	100	H
1.91	24.77	Ca	30.8	-30.7	.7	25.57	54	-28.43	-	-	0	100	H
1.901	37.41	Pk	30.8	-30.8	.7	38.11	-	-	74	-35.89	0	100	V
1.901	25.04	Ca	30.8	-30.8	.7	25.74	54	-28.26	-	-	0	100	V
3.647	36.23	Pk	32.9	-29.5	.6	40.23	-	-	74	-33.77	0	100	H
3.647	24.18	Ca	32.9	-29.5	.6	28.18	54	-25.82	-	-	0	100	H
4.594	36.56	Pk	34.1	-28.6	.5	42.56	-	-	74	-31.44	0	100	V
4.594	24.24	Ca	34.1	-28.6	.5	30.24	54	-23.76	-	-	0	100	V
6.17	35.19	Pk	35.3	-26.7	.4	44.19	-	-	74	-29.81	0	100	H
6.17	23.2	Ca	35.3	-26.7	.4	32.2	54	-21.8	-	-	0	100	H
5.828	35.18	Pk	34.9	-27	.5	43.58	-	-	74	-30.42	0	100	V
5.828	23.14	Ca	34.9	-27	.5	31.54	54	-22.46	-	-	0	100	V

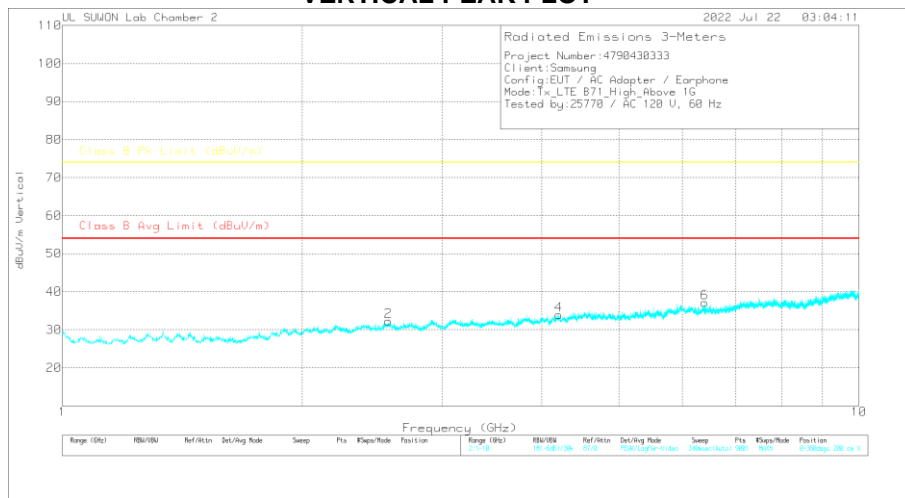
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(644.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

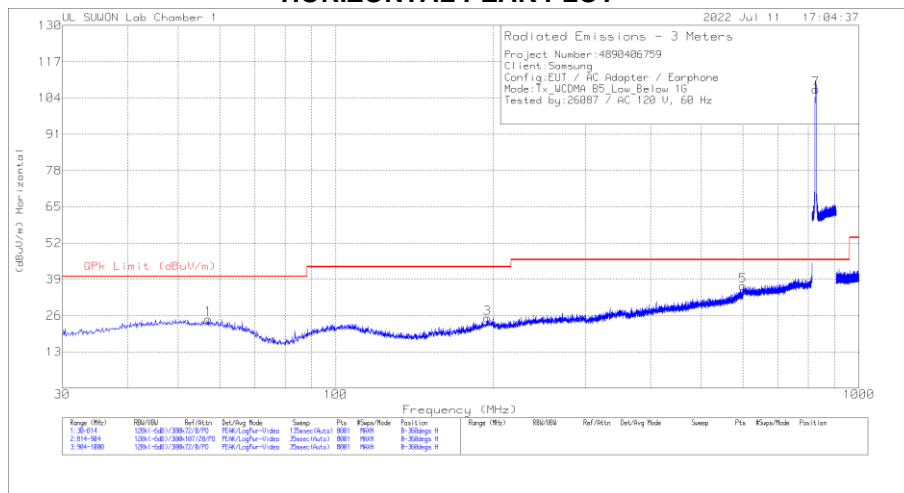
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	1-18GHz[dB]	1GHz HPF[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.582	36.14	Pk	32.2	-30.1	.7	38.94	-	-	74	-35.06	0	100	H
2.582	24	Ca	32.2	-30.1	.7	26.8	54	-27.2	-	-	0	100	H
2.567	36.11	Pk	32.2	-29.9	.7	39.11	-	-	74	-34.89	0	100	V
2.567	24.08	Ca	32.2	-29.9	.7	27.08	54	-26.92	-	-	0	100	V
4.183	35.87	Pk	33.4	-28.3	.4	41.37	-	-	74	-32.63	0	100	H
4.183	24.03	Ca	33.4	-28.3	.4	29.53	54	-24.47	-	-	0	100	H
4.202	35.93	Pk	33.4	-28.3	.4	41.43	-	-	74	-32.57	0	100	V
4.202	24.13	Ca	33.4	-28.3	.4	29.63	54	-24.37	-	-	0	100	V
5.778	35.36	Pk	34.8	-27.2	.6	43.56	-	-	74	-30.44	0	100	H
5.778	23.39	Ca	34.8	-27.2	.6	31.59	54	-22.41	-	-	0	100	H
6.403	35.09	Pk	35.4	-26.8	.4	44.09	-	-	74	-29.91	0	100	V
6.403	22.34	Ca	35.4	-26.8	.4	31.34	54	-22.66	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

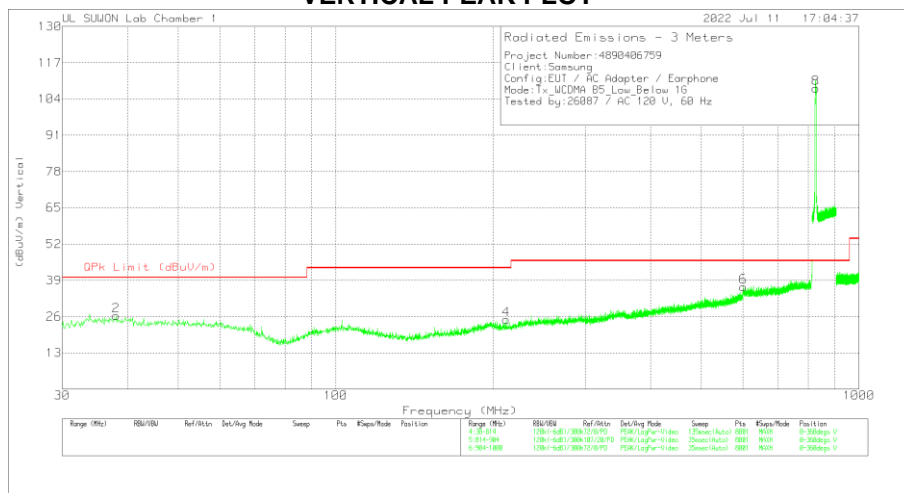
7.1.7. Below 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

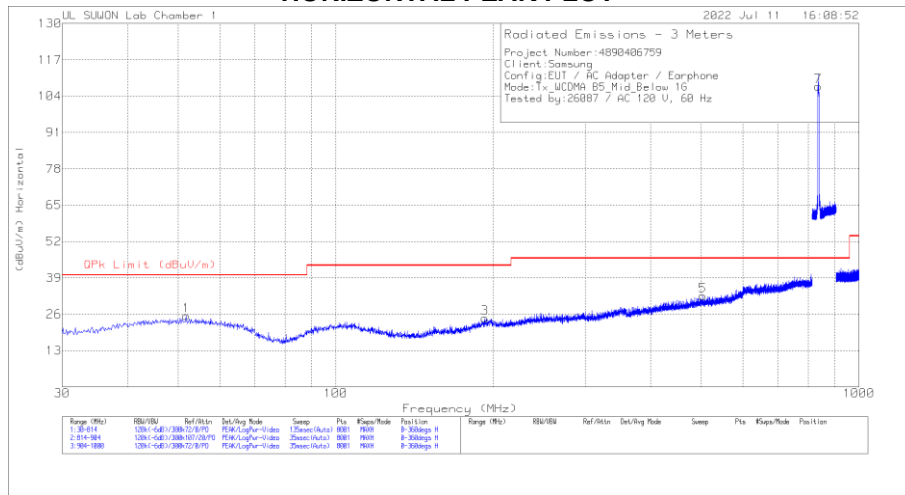
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	57.048	3.94	Pk	19.2	1.6	24.74	40	-15.26	0-360	300	H
3	194.64	4.93	Pk	17.3	2.9	25.13	43.52	-18.39	0-360	100	H
5	600.066	6.33	Pk	25.2	5.1	36.63	46.02	-9.39	0-360	200	H
7	826.4425	74.09	Pk	27.1	5.9	107.09	46.02	61.07	0-360	200	H
2	38.036	7.16	Pk	17.9	1.3	26.36	40	-13.64	0-360	200	V
4	211.79	5.31	Pk	16.7	3	25.01	43.52	-18.51	0-360	400	V
6	601.34	6.45	Pk	25.2	5.1	36.75	46.02	-9.27	0-360	400	V
8	826.4313	74.89	Pk	27.1	5.9	107.89	46.02	61.87	0-360	100	V

Pk - Peak detector

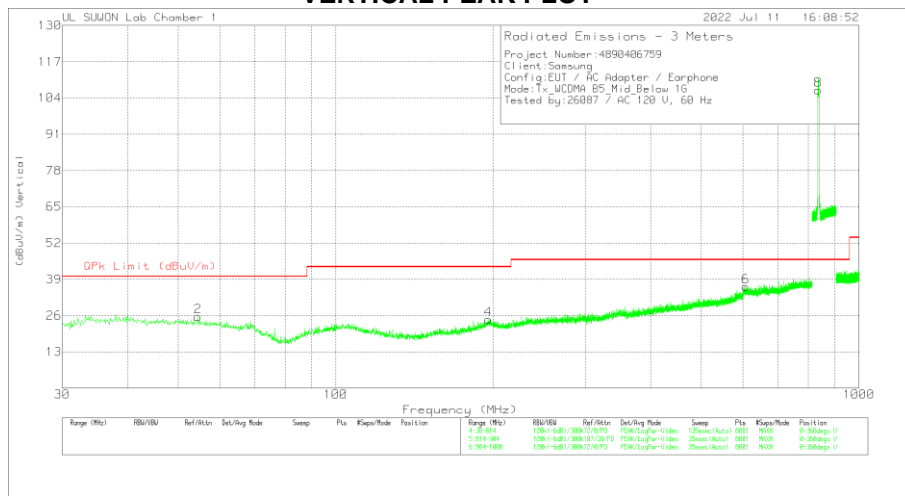
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

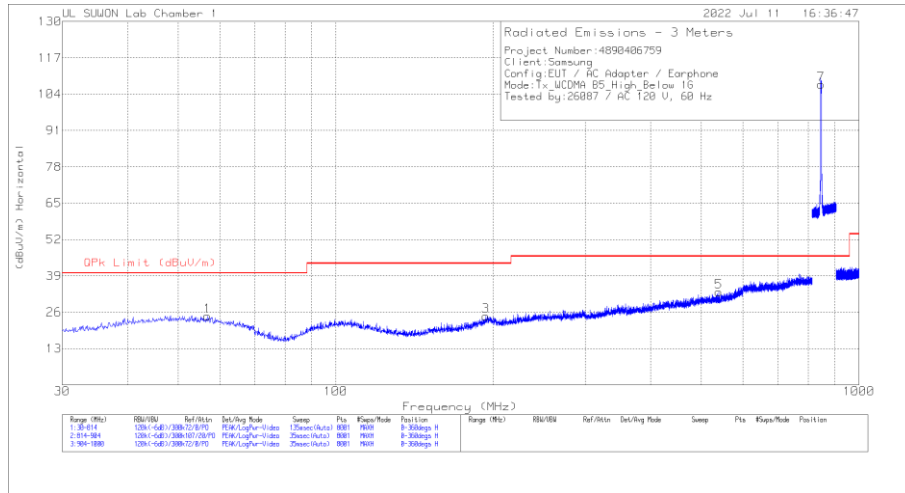
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.756	4.21	Pk	19.7	1.5	25.41	40	-14.59	0-360	300	H
3	192.68	4.87	Pk	16.9	2.9	24.67	43.52	-18.85	0-360	300	H
5	502.36	4.74	Pk	23.2	4.6	32.54	46.02	-13.48	0-360	100	H
7	836.6688	74.4	Pk	27.1	6	107.5	46.02	61.48	0-360	200	H
2	54.5	4.72	Pk	19.5	1.5	25.72	40	-14.28	0-360	200	V
4	195.718	4.2	Pk	17.5	2.9	24.6	43.52	-18.92	0-360	400	V
6	607.416	6	Pk	25.2	5.1	36.3	46.02	-9.72	0-360	300	V
8	836.6575	73.69	Pk	27.1	6	106.79	46.02	60.77	0-360	100	V

Pk - Peak detector

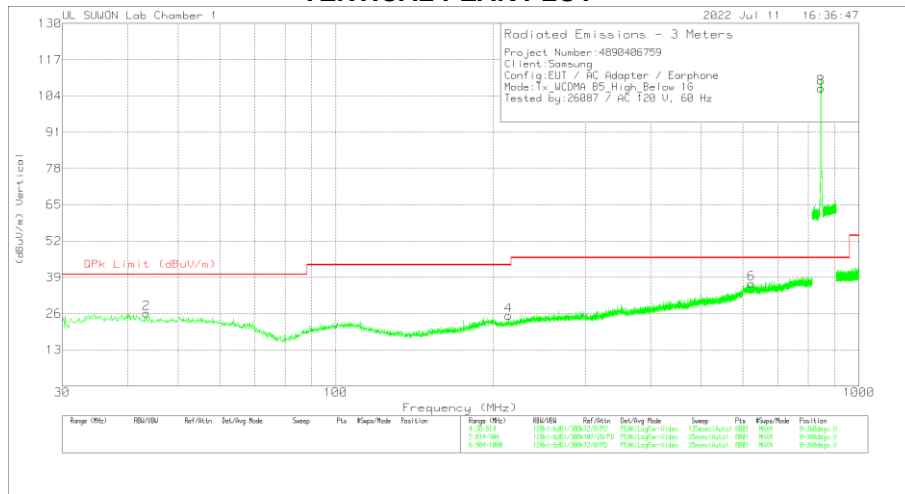
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.852	3.89	Pk	19.2	1.6	24.69	40	-15.31	0-360	300	H
3	193.758	4.59	Pk	17.2	2.9	24.69	43.52	-18.83	0-360	100	H
5	539.404	5.02	Pk	23.5	4.8	33.32	46.02	-12.7	0-360	300	H
7	846.625	74.27	Pk	27.3	6	107.57	46.02	61.55	0-360	200	H
2	43.426	5.37	Pk	19.4	1.4	26.17	40	-13.83	0-360	300	V
4	213.946	5.49	Pk	16.8	3	25.29	43.52	-18.23	0-360	300	V
6	623.096	6.51	Pk	25.1	5.2	36.81	46.02	-9.21	0-360	400	V
8	846.6138	73.61	Pk	27.3	6	106.91	46.02	60.89	0-360	100	V

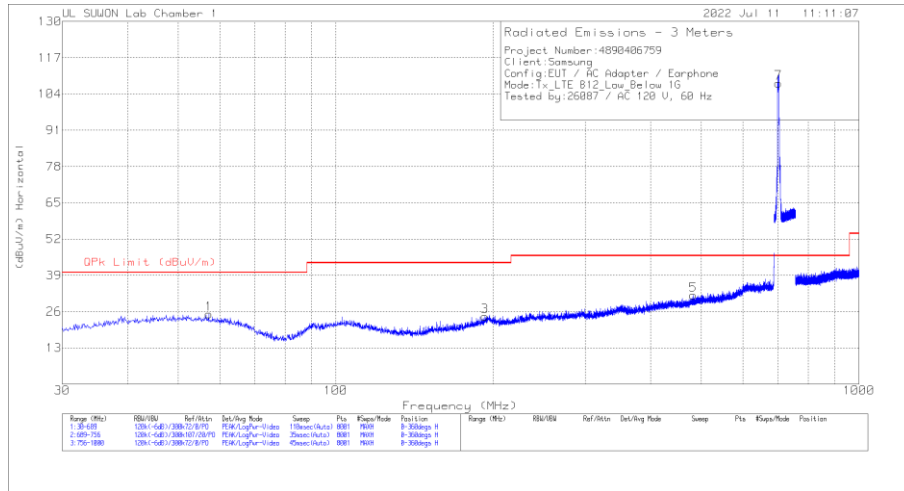
Pk - Peak detector

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

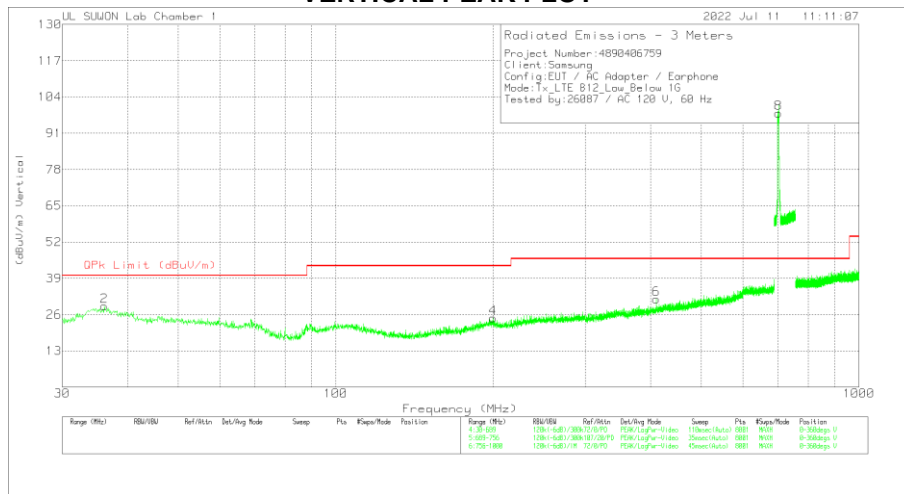
7.1.8. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

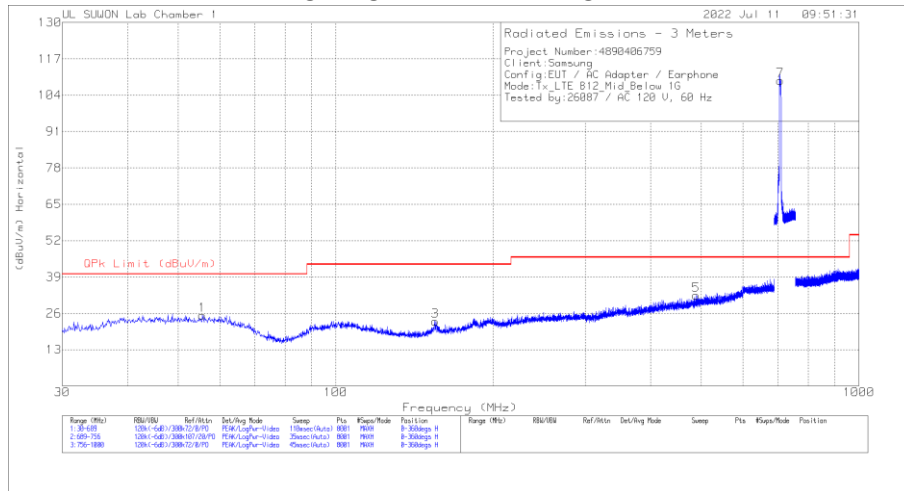
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	57.1838	4.41	Pk	19.2	1.6	25.21	40	-14.79	0-360	200	H
3	192.773	4.44	Pk	17	2.9	24.34	43.52	-19.18	0-360	100	H
5	482.5683	4.6	PK	22.8	4.5	31.9	46.02	-14.12	0-360	300	H
7	701.5374	76.83	PK	25.6	5.5	107.93	46.02	61.91	0-360	200	H
2	36.0958	10.73	PK	17.1	1.2	29.03	40	-10.97	0-360	200	V
4	199.8573	4.7	PK	17.2	2.9	24.8	43.52	-18.72	0-360	400	V
6	409.6664	5.69	PK	21.7	4.2	31.59	46.02	-14.43	0-360	400	V
8	701.5458	67.03	PK	25.6	5.5	98.13	46.02	52.11	0-360	100	V

Pk - Peak detector

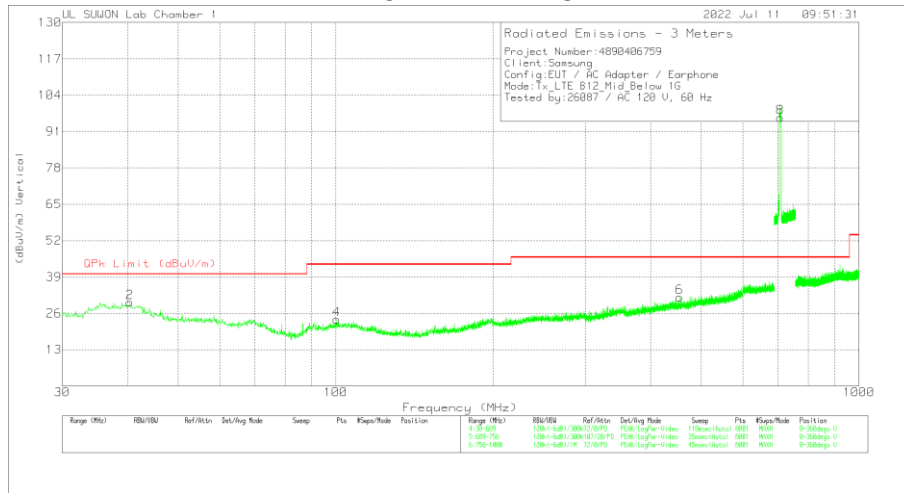
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

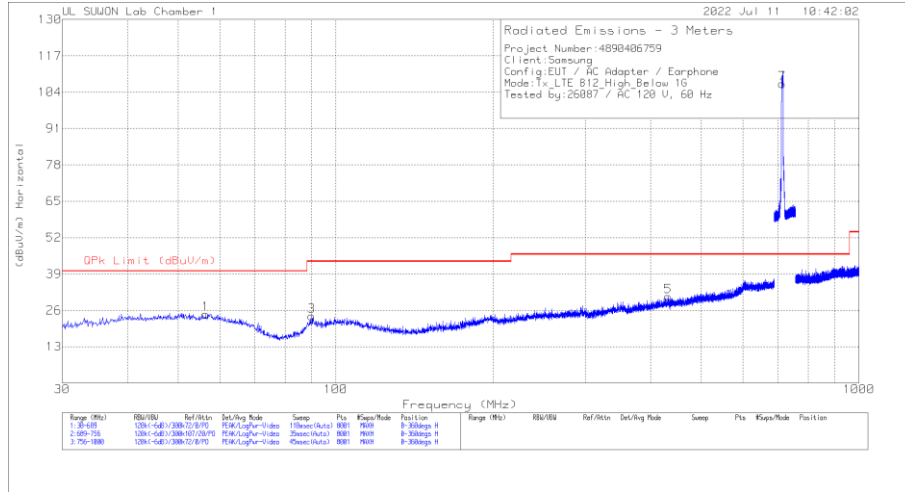
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	55.5363	4.54	Pk	19.3	1.5	25.34	40	-14.66	0-360	300	H
3	154.9629	6.5	Pk	14.1	2.6	23.2	43.52	-20.32	0-360	100	H
5	488.5816	4.86	Pk	22.9	4.6	32.36	46.02	-13.66	0-360	100	H
7	707.5171	78	Pk	25.7	5.5	109.2	46.02	63.18	0-360	200	H
2	40.3793	9.83	Pk	18.8	1.3	29.93	40	-10.07	0-360	200	V
4	100.3483	4.16	Pk	17.6	2.1	23.86	43.52	-19.66	0-360	200	V
6	454.3136	5.21	Pk	22.2	4.4	31.81	46.02	-14.21	0-360	300	V
8	707.5171	64.86	Pk	25.7	5.5	96.06	46.02	50.04	0-360	100	V

Pk - Peak detector

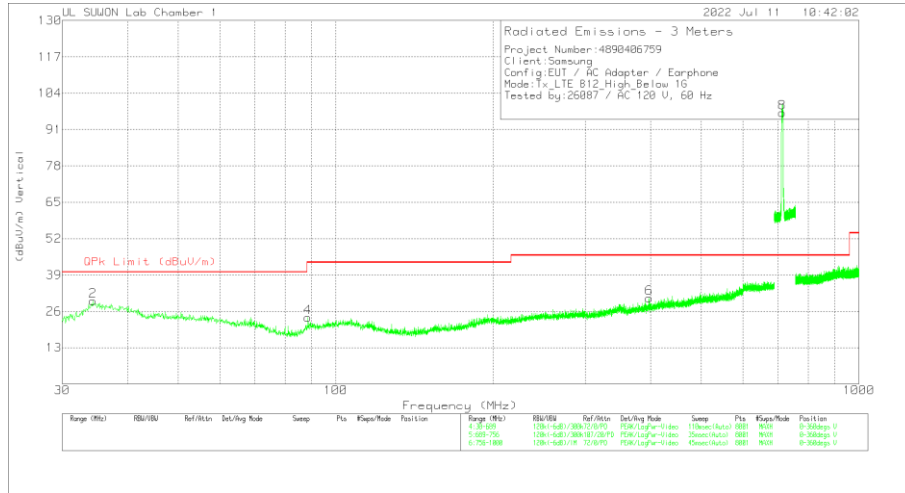
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.4424	3.81	Pk	19.3	1.6	24.71	40	-15.29	0-360	300	H
3	89.969	6.18	Pk	15.8	2	23.98	43.52	-19.54	0-360	300	H
5	431.6605	4.53	Pk	22.1	4.3	30.93	46.02	-15.09	0-360	100	H
7	713.5639	75.76	Pk	25.7	5.5	106.96	46.02	60.94	0-360	200	H
2	34.3659	12.28	Pk	16.3	1.2	29.78	40	-10.22	0-360	200	V
4	88.4863	6.47	Pk	15.3	2	23.77	43.52	-19.75	0-360	200	V
6	396.8983	5.41	Pk	21.3	4.1	30.81	46.02	-15.21	0-360	300	V
8	713.5471	65.81	Pk	25.7	5.5	97.01	46.02	50.99	0-360	100	V

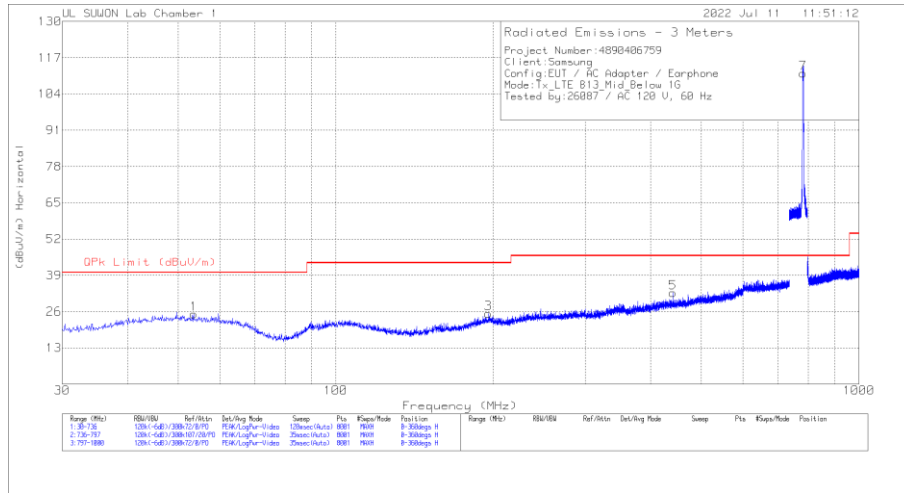
Pk - Peak detector

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

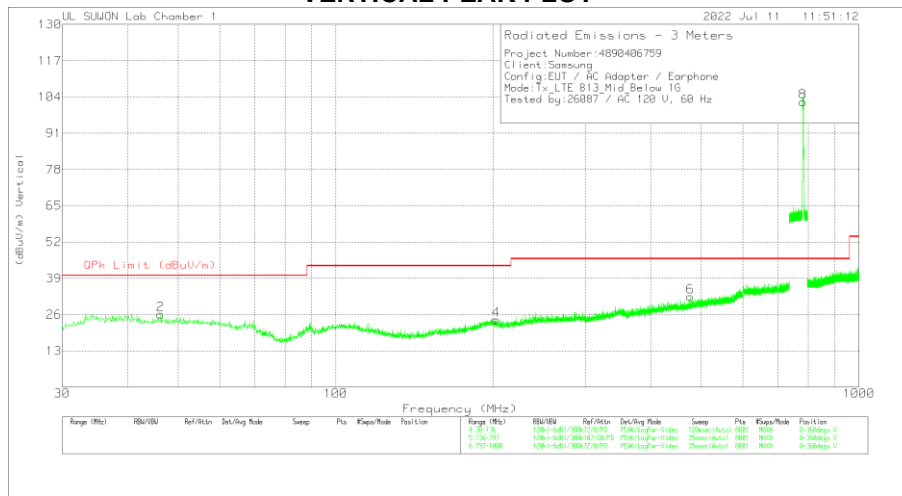
7.1.9. Below 1 GHz in the LTE Band 13

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	53.4745	3.97	Pk	19.6	1.5	25.07	40	-14.93	0-360	400	H
3	195.7335	5	Pk	17.5	2.9	25.4	43.52	-18.12	0-360	400	H
5	440.892	6.39	PK	22.1	4.3	32.79	46.02	-13.23	0-360	200	H
7	782.0626	78.89	Pk	26.7	5.8	111.39	46.02	65.37	0-360	100	H
2	46.238	4.84	PK	19.9	1.4	26.14	40	-13.86	0-360	100	V
4	202.5288	4.39	Pk	16.9	2.9	24.19	43.52	-19.33	0-360	300	V
6	476.6333	5.29	PK	22.6	4.5	32.39	46.02	-13.63	0-360	100	V
8	782.0169	69.77	PK	26.7	5.8	102.27	46.02	56.25	0-360	300	V

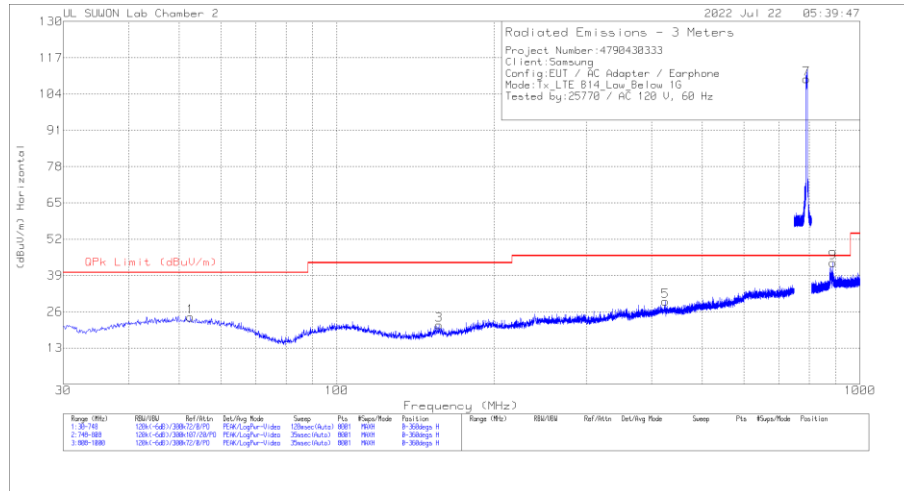
Pk - Peak detector

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

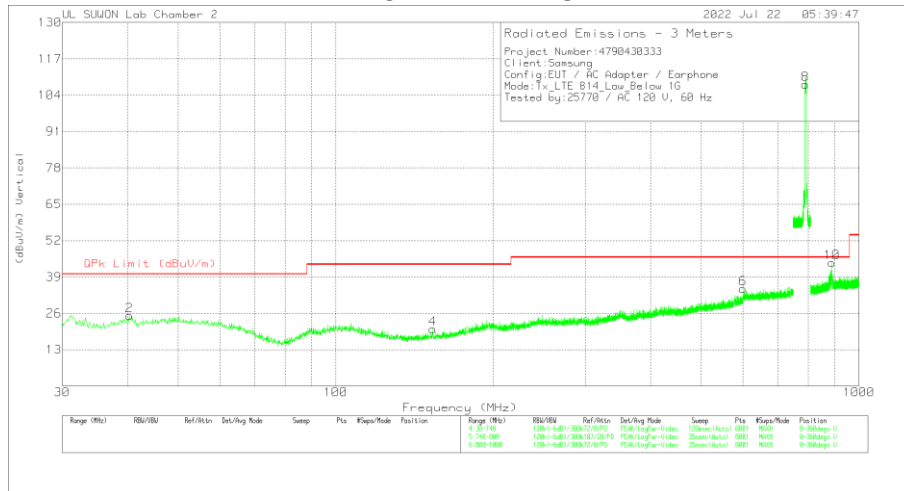
7.1.10. Below 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.5273	3.65	Pk	19.6	.8	24.05	40	-15.95	0-360	300	H
3	156.8168	5.69	Pk	14.1	1.4	21.19	43.52	-22.33	0-360	100	H
5	424.541	5.32	Pk	22.1	2.3	29.72	46.02	-16.3	0-360	100	H
7	790.57	79.69	Pk	26.5	3.2	109.39	46.02	63.37	0-360	200	H
9	887.968	12.34	Pk	27.8	3.4	43.54	46.02	-2.48	0-360	300	H
2	40.3213	5.74	Pk	18.7	.7	25.14	40	-14.86	0-360	200	V
4	153.2268	5.15	Pk	13.9	1.4	20.45	43.52	-23.07	0-360	300	V
6	600.2715	7.06	Pk	25	2.8	34.86	46.02	-11.16	0-360	400	V
8	790.57	78.12	Pk	26.5	3.2	107.82	46.02	61.8	0-360	100	V
10	887.968	12.96	Pk	27.8	3.4	44.16	46.02	-1.86	0-360	200	V

Pk - Peak detector

Radiated Emissions

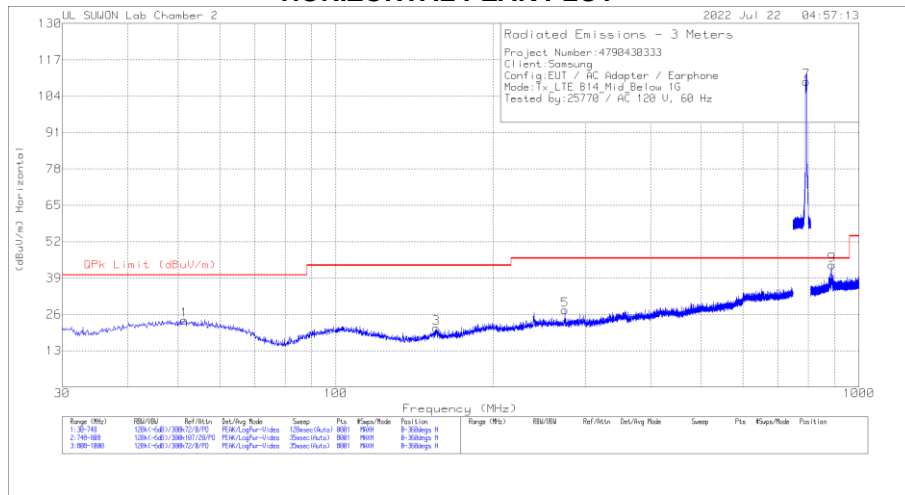
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
887.968	9.8	Qp	27.8	3.4	41	46.02	-5.02	325	213	H
887.968	9.12	Qp	27.8	3.4	40.32	46.02	-5.7	37	130	V

Qp - Quasi-Peak detector

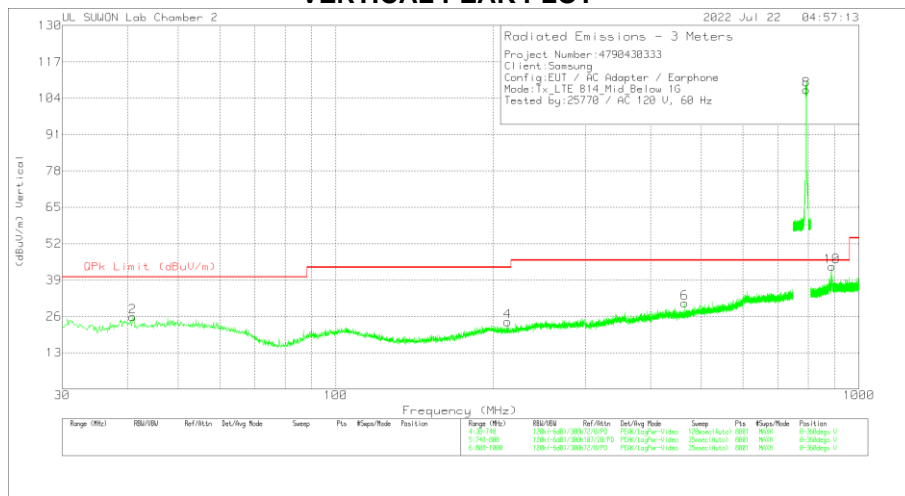
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(763.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.3605	3.28	Pk	19.8	.8	23.88	40	-16.12	0-360	200	H
3	155.4705	5.65	Pk	14	1.4	21.05	43.52	-22.47	0-360	300	H
5	274.2995	7.05	Pk	18.6	1.9	27.55	46.02	-18.47	0-360	200	H
7	793.1425	79.42	Pk	26.6	3.2	109.22	46.02	63.2	0-360	100	H
9	888.016	12.49	PK	27.8	3.4	43.69	46.02	-2.33	0-360	300	H
2	40.9495	6.25	Pk	18.9	.7	25.85	40	-14.15	0-360	100	V
4	213.0003	5.75	Pk	16.7	1.6	24.05	43.52	-19.47	0-360	100	V
6	464.749	6.26	Pk	22.1	2.4	30.76	46.02	-15.26	0-360	100	V
8	793.135	77.18	PK	26.6	3.2	106.98	46.02	60.96	0-360	300	V
10	888.016	12.65	Pk	27.8	3.4	43.85	46.02	-2.17	0-360	100	V

Pk - Peak detector

Radiated Emissions

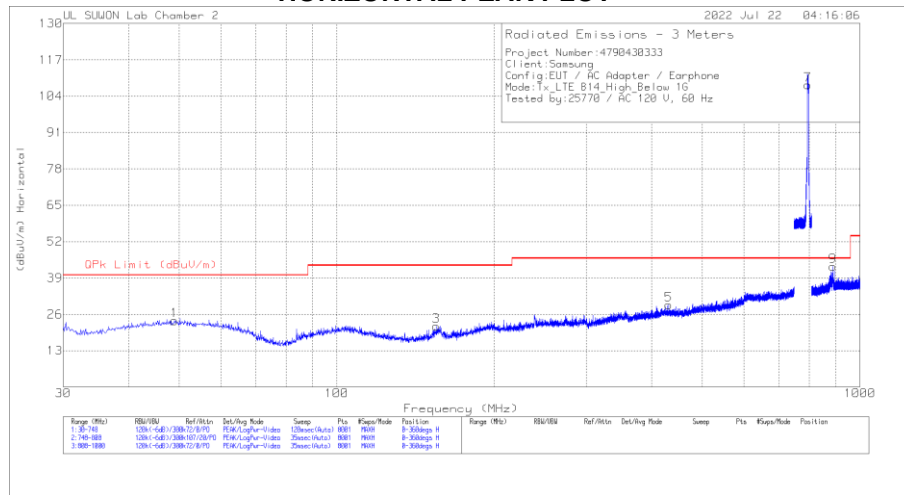
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
888.016	9	Qp	27.8	3.4	40.2	46.02	-5.82	73	374	H
888.016	9.56	Qp	27.8	3.4	40.76	46.02	-5.26	135	243	V

Qp - Quasi-Peak detector

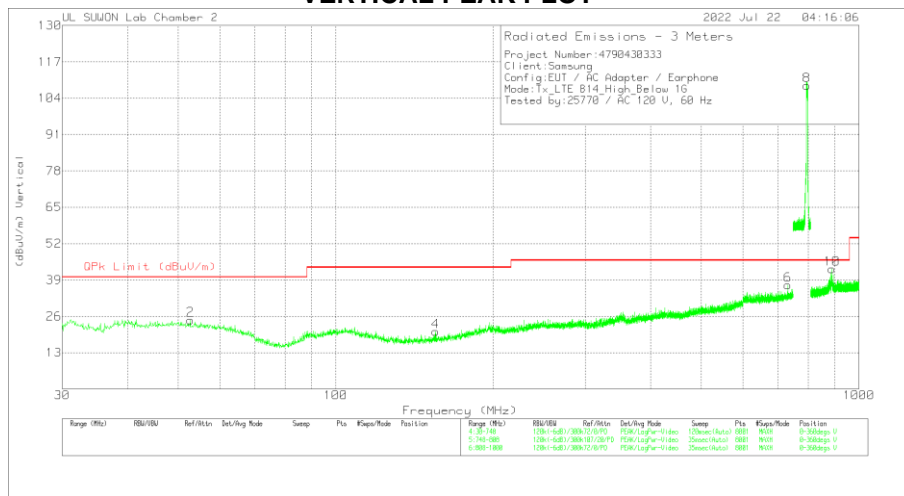
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.9373	3.01	Pk	19.9	.8	23.71	40	-16.29	0-360	100	H
3	154.8423	6.32	Pk	14	1.4	21.72	43.52	-21.8	0-360	100	H
5	430.7338	4.93	Pk	22.1	2.3	29.33	46.02	-16.69	0-360	300	H
7	795.5125	78.1	Pk	26.7	3.2	108	46.02	61.98	0-360	200	H
9	887.968	11.87	PK	27.8	3.4	43.07	46.02	-2.95	0-360	100	H
2	52.7068	4.32	Pk	19.6	.8	24.72	40	-15.28	0-360	200	V
4	155.2013	5.21	Pk	14	1.4	20.61	43.52	-22.91	0-360	200	V
6	730.9475	8.06	Pk	26	3.1	37.16	46.02	-8.86	0-360	400	V
8	795.505	78.55	PK	26.7	3.2	108.45	46.02	62.43	0-360	100	V
10	887.92	11.71	PK	27.8	3.4	42.91	46.02	-3.11	0-360	200	V

Pk - Peak detector

Radiated Emissions

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
887.968	9.39	Qp	27.8	3.4	40.59	46.02	-5.43	47	200	H
887.92	7.48	Qp	27.8	3.4	38.68	46.02	-7.34	354	395	V

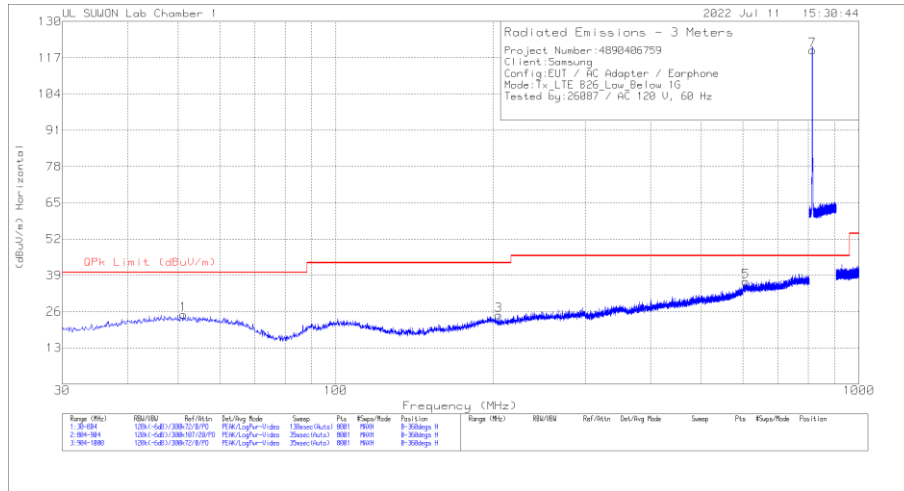
Qp - Quasi-Peak detector

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

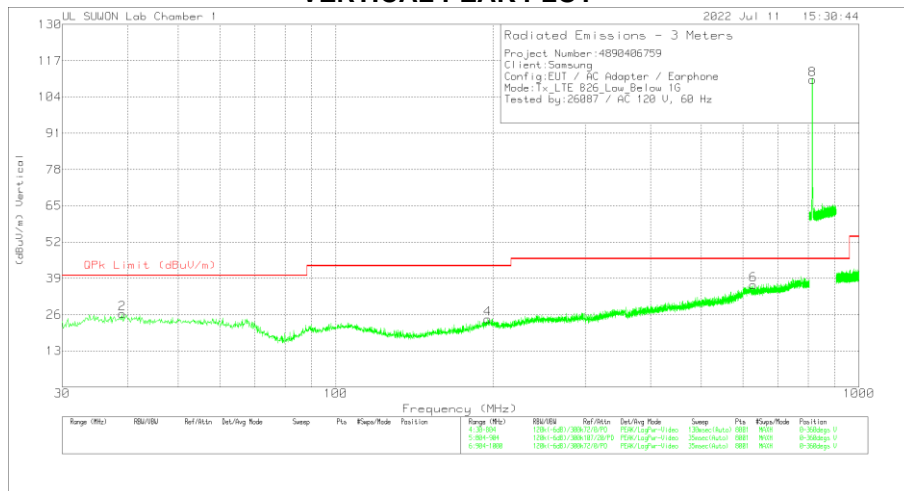
7.1.11. Below 1 GHz in the LTE Band 26

LOW CHANNEL(860.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

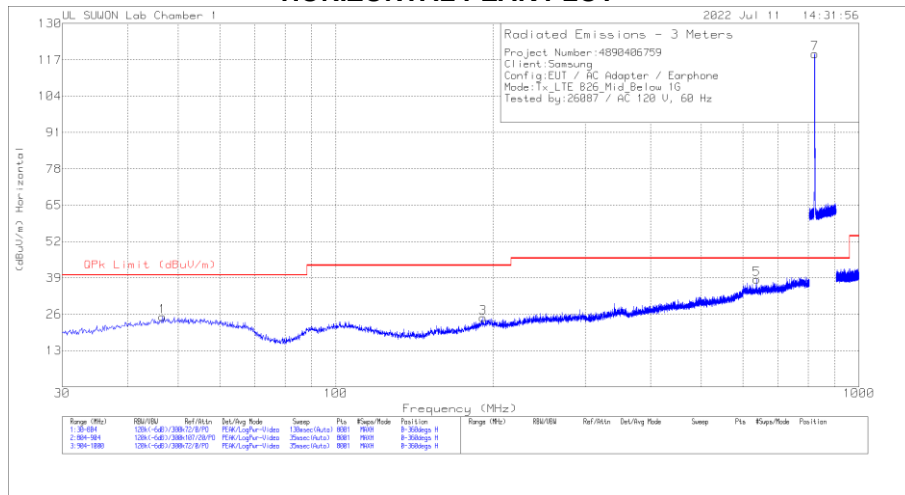
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.0915	3.61	Pk	19.8	1.5	24.91	40	-15.09	0-360	100	H
3	204.6338	5.18	Pk	16.6	3	24.78	43.52	-18.74	0-360	200	H
5	608.178	6.57	Pk	25.2	5.1	36.87	46.02	-9.15	0-360	100	H
7	814.7	86.75	Pk	27.1	5.9	119.75	46.02	73.73	0-360	200	H
2	39.0945	6.63	Pk	18.4	1.3	26.33	40	-13.67	0-360	200	V
4	195.249	4.22	Pk	17.4	2.9	24.52	43.52	-19	0-360	400	V
6	628.5923	6.37	Pk	25.1	5.2	36.67	46.02	-9.35	0-360	400	V
8	814.7	77.18	Pk	27.1	5.9	110.18	46.02	64.16	0-360	100	V

Pk - Peak detector

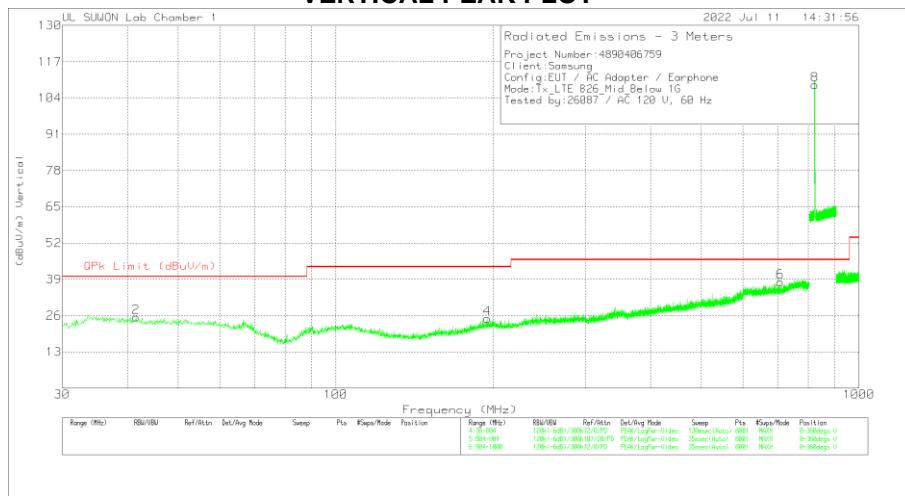
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

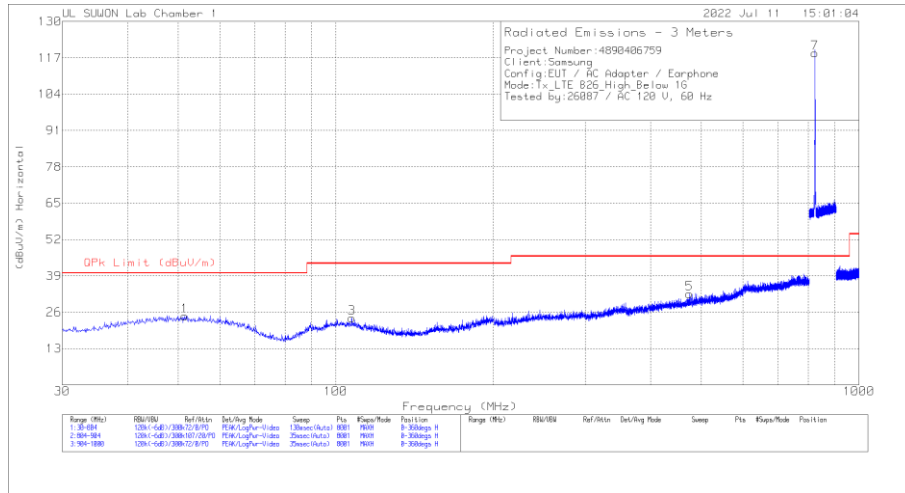
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.641	3.81	Pk	19.9	1.4	25.11	40	-14.89	0-360	100	H
3	191.1855	5.14	Pk	16.7	2.9	24.74	43.52	-18.78	0-360	300	H
5	637.1063	8.28	Pk	25.1	5.2	38.58	46.02	-7.44	0-360	300	H
7	823.3	86.12	Pk	27.1	5.9	119.12	46.02	73.1	0-360	200	H
2	41.5133	5.11	Pk	19	1.3	25.41	40	-14.59	0-360	200	V
4	194.7653	4.61	Pk	17.4	2.9	24.91	43.52	-18.61	0-360	400	V
6	707.3468	7.01	Pk	25.6	5.5	38.11	46.02	-7.91	0-360	300	V
8	823.3	75.74	Pk	27.1	5.9	108.74	46.02	62.72	0-360	100	V

Pk - Peak detector

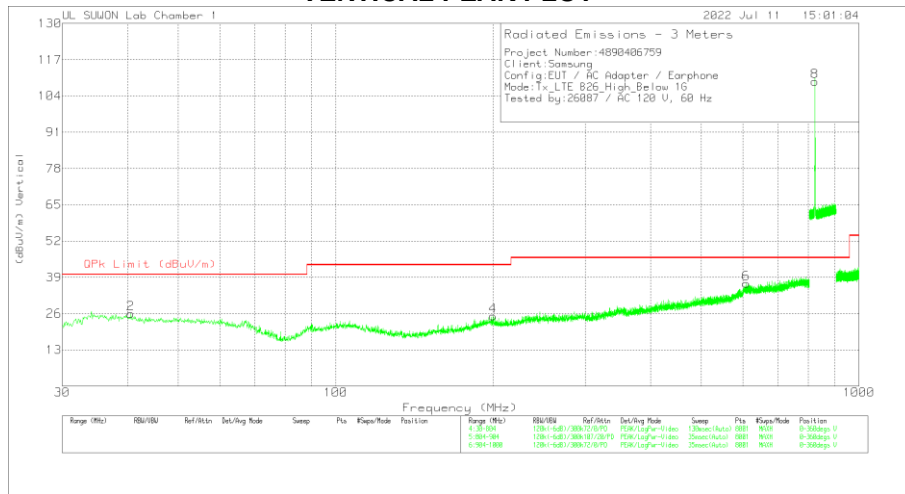
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

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	51.4785	3.37	Pk	19.8	1.5	24.67	40	-15.33	0-360	100	H
3	107.3033	4.22	Pk	17.6	2.1	23.92	43.52	-19.6	0-360	200	H
5	473.7923	5.65	Pk	22.5	4.5	32.65	46.02	-13.37	0-360	300	H
7	824.075	85.74	PK	27.1	5.9	118.74	46.02	72.72	0-360	200	H
2	40.5458	5.82	Pk	18.8	1.3	25.92	40	-14.08	0-360	200	V
4	199.7963	4.98	Pk	17.2	2.9	25.08	43.52	-18.44	0-360	400	V
6	608.565	6.56	Pk	25.2	5.1	36.86	46.02	-9.16	0-360	400	V
8	824.075	76.18	PK	27.1	5.9	109.18	46.02	63.16	0-360	100	V

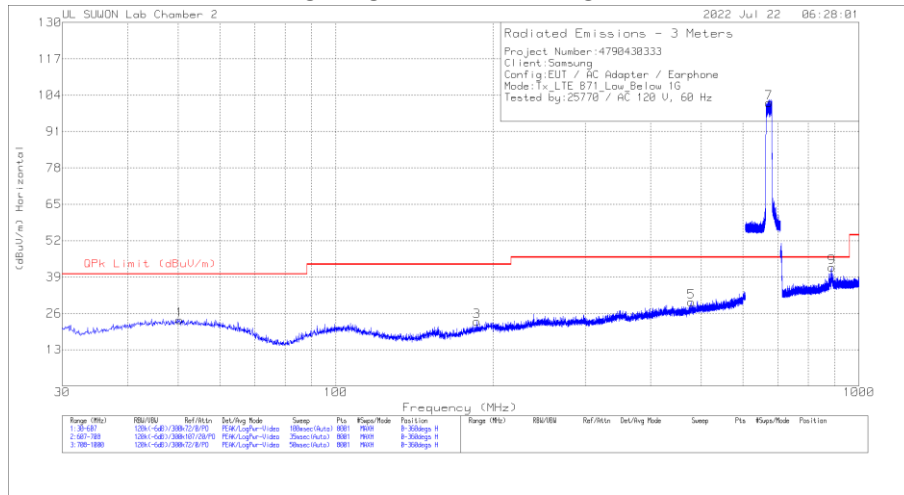
Pk - Peak detector

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

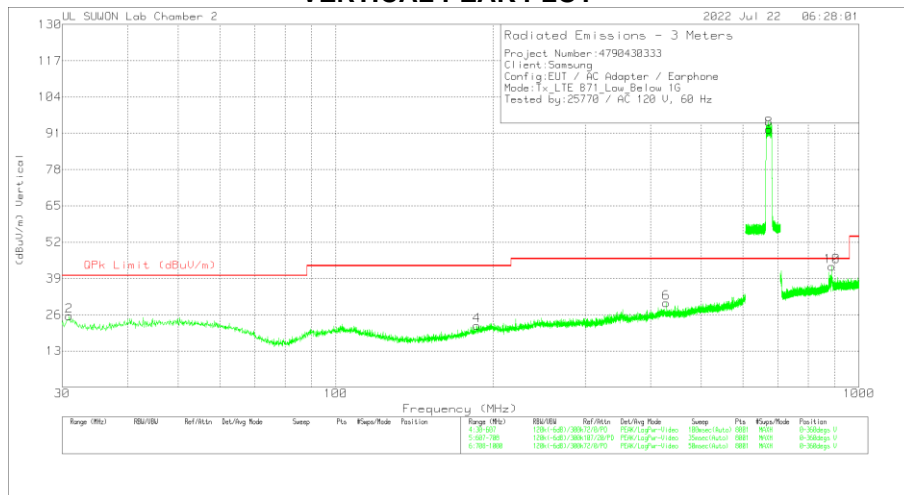
7.1.12. Below 1 GHz in the LTE Band 71

LOW CHANNEL(624.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	50.2671	2.91	Pk	19.9	.8	23.61	40	-16.39	0-360	100	H
3	186.0785	5.76	Pk	15.9	1.5	23.16	43.52	-20.36	0-360	100	H
5	478.1848	5.1	Pk	22.5	2.5	30.1	46.02	-15.92	0-360	100	H
7	673.0666	72.92	Pk	25.4	2.9	101.22	46.02	55.2	0-360	200	H
9	888.018	11.26	Pk	27.8	3.4	42.46	46.02	-3.56	0-360	100	H
2	30.9376	9.47	Pk	15.4	.6	25.47	40	-14.53	0-360	200	V
4	186.0064	4.64	Pk	15.9	1.5	22.04	43.52	-21.48	0-360	400	V
6	428.4906	5.82	Pk	22.1	2.3	30.22	46.02	-15.8	0-360	200	V
8	673.0666	64.07	Pk	25.4	2.9	92.37	46.02	46.35	0-360	200	V
10	888.018	12.06	Pk	27.8	3.4	43.26	46.02	-2.76	0-360	200	V

Pk - Peak detector

Radiated Emissions

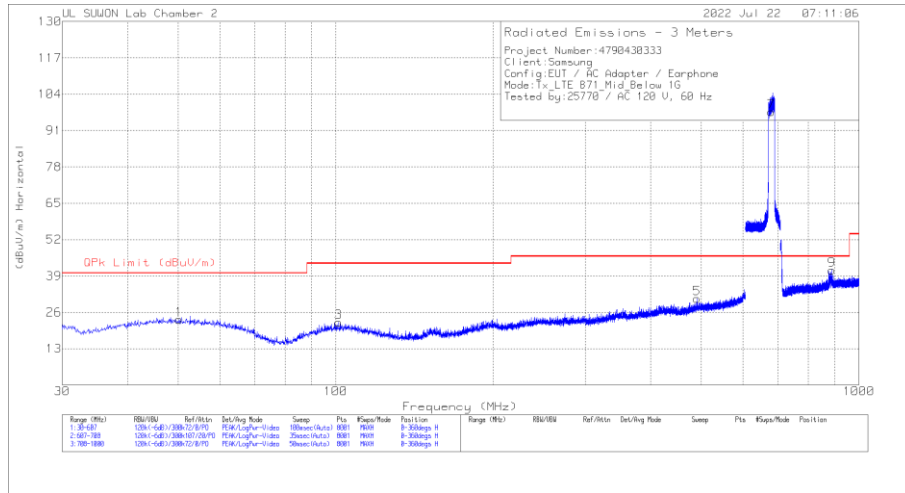
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
888.018	7.94	Qp	27.8	3.4	39.14	46.02	-6.88	138	202	H
888.018	8.2	Qp	27.8	3.4	39.4	46.02	-6.62	251	212	V

Qp - Quasi-Peak detector

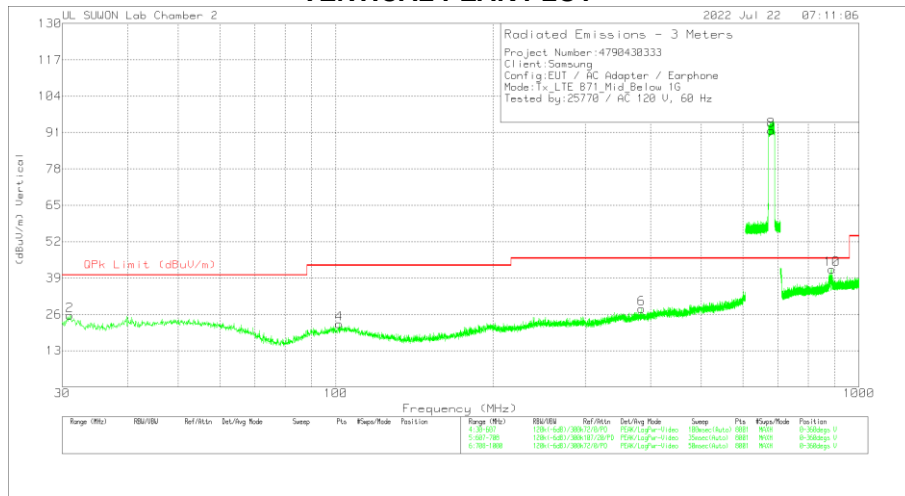
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	50.195	2.74	Pk	19.9	.8	23.44	40	-16.56	0-360	200	H
3	101.3316	3.79	Pk	17.5	1.1	22.39	43.52	-21.13	0-360	200	H
5	490.3018	5.53	Pk	22.9	2.5	30.93	46.02	-15.09	0-360	100	H
7	680.5028	69.32	Pk	25.5	2.9	97.72	46.02	51.7	0-360	200	H
9	887.9815	9.84	PK	27.8	3.4	41.04	46.02	-4.98	0-360	200	H
2	31.0098	9.6	Pk	15.4	.6	25.6	40	-14.4	0-360	200	V
4	101.548	4.06	Pk	17.5	1.1	22.66	43.52	-20.86	0-360	300	V
6	384.2059	4.75	Pk	21.1	2.2	28.05	46.02	-17.97	0-360	400	V
8	680.5028	63.29	PK	25.5	2.9	91.69	46.02	45.67	0-360	100	V
10	887.9815	10.9	PK	27.8	3.4	42.1	46.02	-3.92	0-360	200	V

Pk - Peak detector

Radiated Emissions

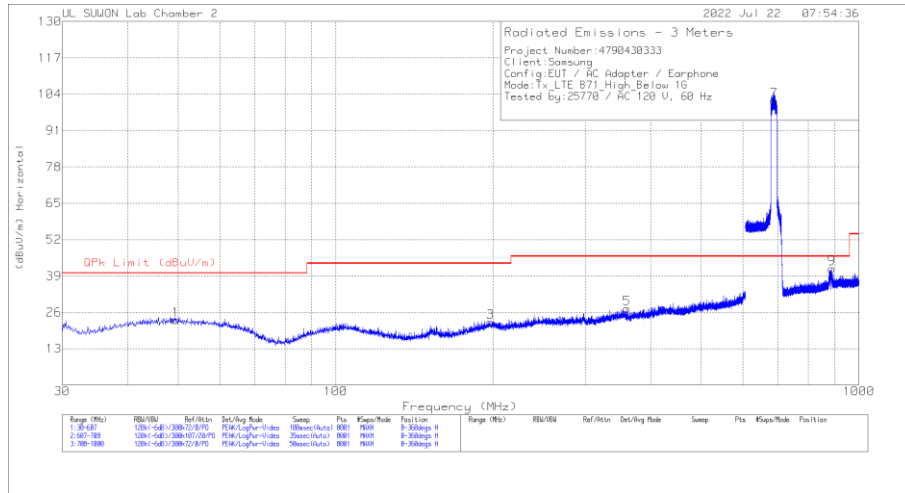
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_74 9	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
887.9815	8.15	Qp	27.8	3.4	39.35	46.02	-6.67	54	380	H
887.9815	8.66	Qp	27.8	3.4	39.86	46.02	-6.16	0	395	V

Qp - Quasi-Peak detector

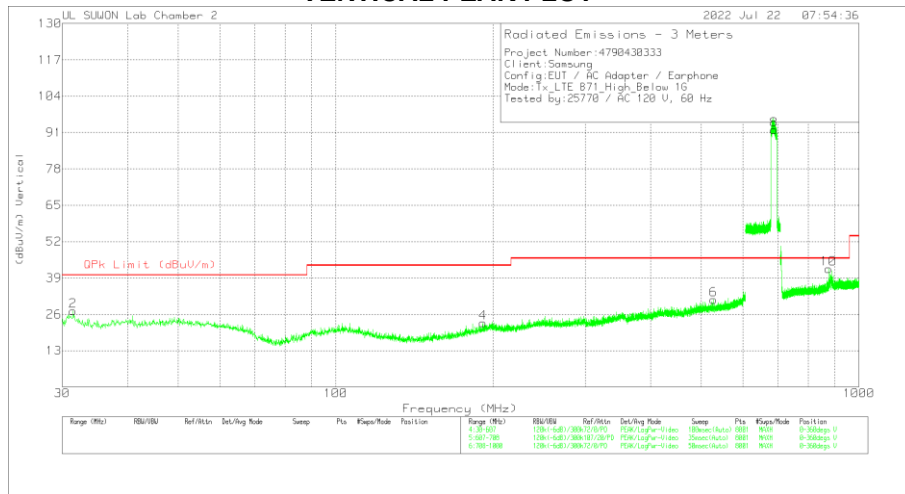
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(644.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	49.4738	2.52	Pk	19.9	.8	23.22	40	-16.78	0-360	100	H
3	197.5464	3.52	Pk	17.4	1.6	22.52	43.52	-21	0-360	200	H
5	360.4768	5.14	Pk	20.1	2.1	27.34	46.02	-18.68	0-360	100	H
7	688.0651	73.38	Pk	25.4	3	101.78	46.02	55.76	0-360	200	H
9	887.9815	10.47	PK	27.8	3.4	41.67	46.02	-4.35	0-360	200	H
2	31.4425	11.13	Pk	15.4	.6	27.13	40	-12.87	0-360	200	V
4	191.1273	4.69	Pk	16.6	1.6	22.89	43.52	-20.63	0-360	200	V
6	527.0855	5.47	Pk	23.1	2.6	31.17	46.02	-14.85	0-360	400	V
8	688.0778	63.48	PK	25.4	3	91.88	46.02	45.86	0-360	100	V
10	874.9145	11.2	Pk	27.7	3.3	42.2	46.02	-3.82	0-360	200	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
887.9815	4.91	Qp	27.8	3.4	36.11	46.02	-9.91	22	140	H
874.9145	3.78	Qp	27.7	3.3	34.78	46.02	-11.24	271	284	V

Qp - Quasi-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.

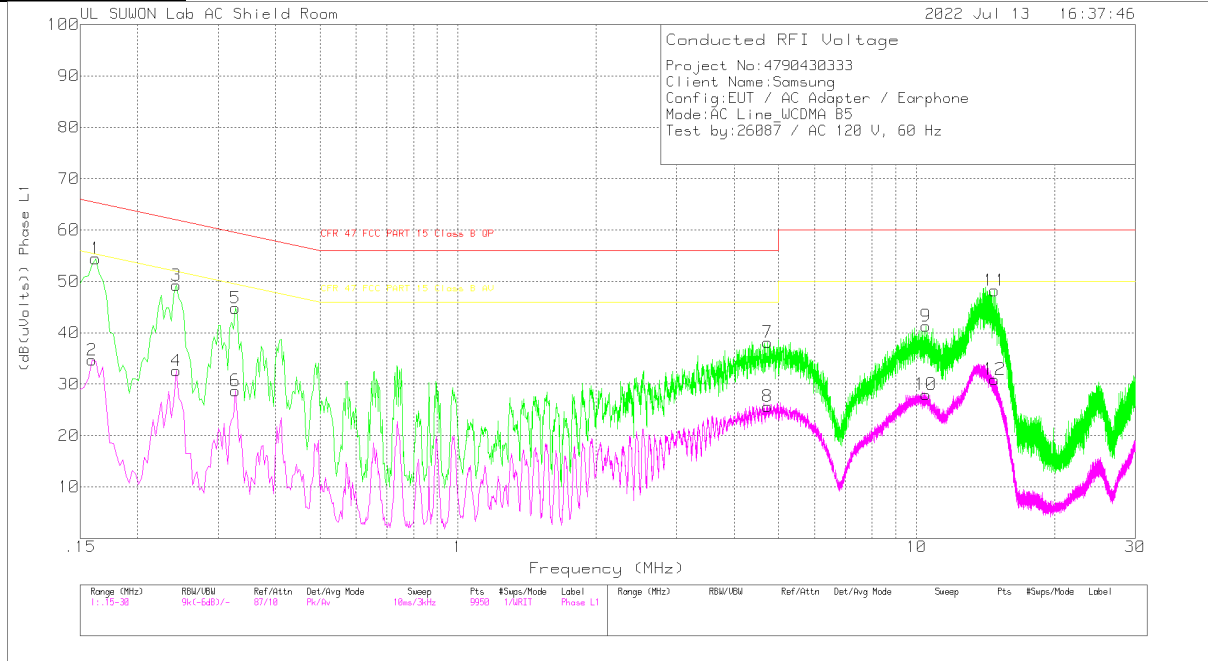
7.2.1 CONDUCTED EMISSIONS

1. USB A to C Cable

6 WORST EMISSIONS(WCDMA B5 + 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_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	.162	44.45	Pk	9.9	.1	54.45	65.36	-10.91	-	-
2	.159	24.8	Av	9.8	.1	34.7	-	-	55.52	-20.82
3	.243	39.45	Pk	9.6	.2	49.25	61.99	-12.74	-	-
4	.243	22.82	Av	9.6	.2	32.62	-	-	51.99	-19.37
5	.327	34.91	Pk	9.7	.2	44.81	59.53	-14.72	-	-
6	.327	18.83	Av	9.7	.2	28.73	-	-	49.53	-20.8
7	4.737	28.13	Pk	9.7	.3	38.13	56	-17.87	-	-
8	4.737	15.67	Av	9.7	.3	25.67	-	-	46	-20.33
9	10.485	31.02	Pk	9.9	.4	41.32	60	-18.68	-	-
10	10.476	17.72	Av	9.9	.4	28.02	-	-	50	-21.98
11	14.808	37.82	Pk	10	.4	48.22	60	-11.78	-	-
12	14.808	20.55	Av	10	.4	30.95	-	-	50	-19.05

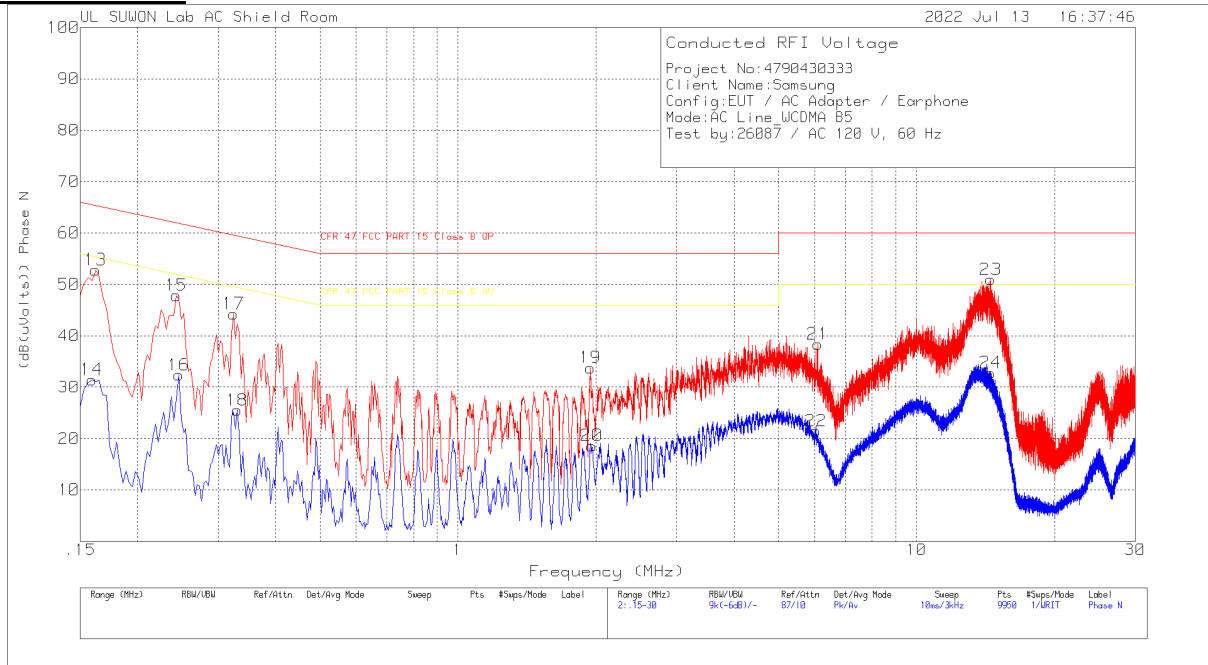
Pk - Peak detector

Av - Average detection

6 WORST EMISSIONS(WCDMA B5 + 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_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	.162	42.8	Pk	9.9	.1	52.8	65.36	-12.56	-	-
14	.159	21.54	Av	9.8	.1	31.44	-	-	55.52	-24.08
15	.243	38.05	Pk	9.6	.2	47.85	61.99	-14.14	-	-
16	.246	22.57	Av	9.6	.2	32.37	-	-	51.89	-19.52
17	.324	34.37	Pk	9.7	.2	44.27	59.6	-15.33	-	-
18	.33	15.52	Av	9.8	.2	25.52	-	-	49.45	-23.93
19	1.944	23.77	Pk	9.7	.3	33.77	56	-22.23	-	-
20	1.959	8.61	Av	9.7	.3	18.61	-	-	46	-27.39
21	6.096	28.27	Pk	9.8	.3	38.37	60	-21.63	-	-
22	6.039	11.38	Av	9.8	.3	21.48	-	-	50	-28.52
23	14.523	40.43	Pk	10.1	.4	50.93	60	-9.07	-	-
24	14.514	22.29	Av	10.1	.4	32.79	-	-	50	-17.21

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

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)
14.5232	39.79	Qp	10.1	.4	50.29	60	-9.71	-	-

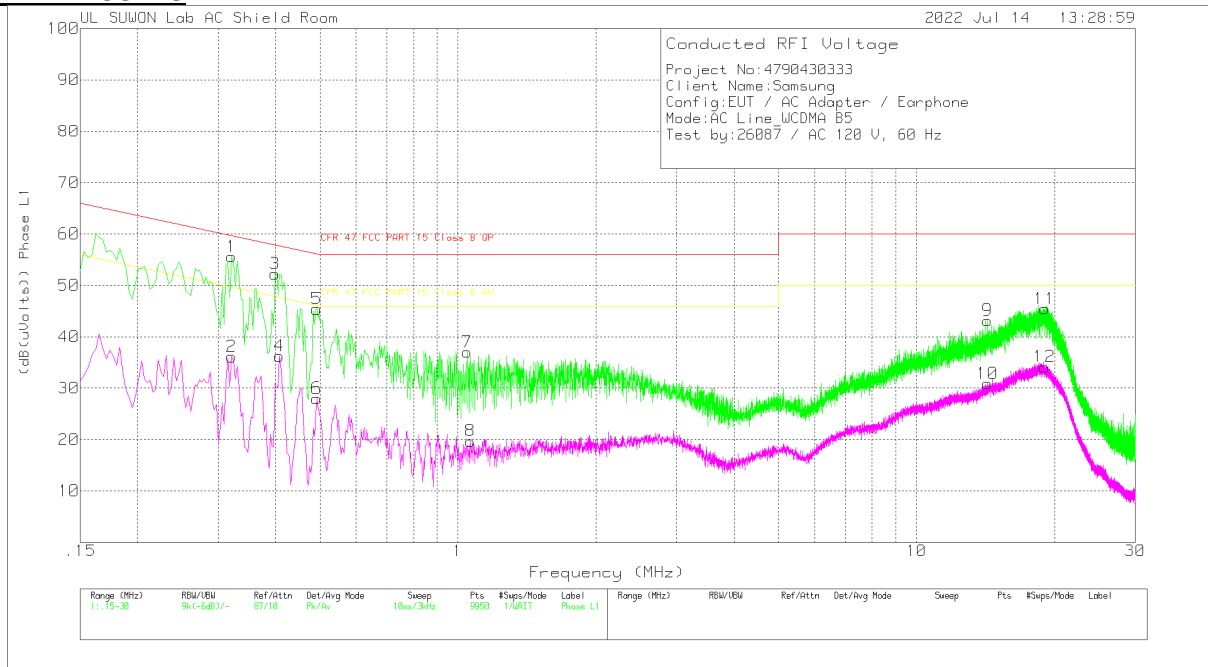
Qp - Quasi-Peak detector

2. USB C to C Cable

6 WORST EMISSIONS(WCDMA B5 + 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_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	.321	45.68	Pk	9.7	.2	55.58	59.68	-4.1	-	-
2	.321	26.23	Av	9.7	.2	36.13	-	-	49.68	-13.55
3	.399	42.26	Pk	9.8	.2	52.26	57.87	-5.61	-	-
4	.408	26.25	Av	9.8	.2	36.25	-	-	47.69	-11.44
5	.492	35.31	Pk	9.9	.2	45.41	56.13	-10.72	-	-
6	.492	17.9	Av	9.9	.2	28	-	-	46.13	-18.13
7	1.047	27.02	Pk	9.7	.3	37.02	56	-18.98	-	-
8	1.065	9.72	Av	9.7	.3	19.72	-	-	46	-26.28
9	14.301	32.74	Pk	10	.4	43.14	60	-16.86	-	-
10	14.292	20.48	Av	10	.4	30.88	-	-	50	-19.12
11	19.038	34.94	Pk	10.1	.4	45.44	60	-14.56	-	-
12	19.014	23.64	Av	10.1	.4	34.14	-	-	50	-15.86

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

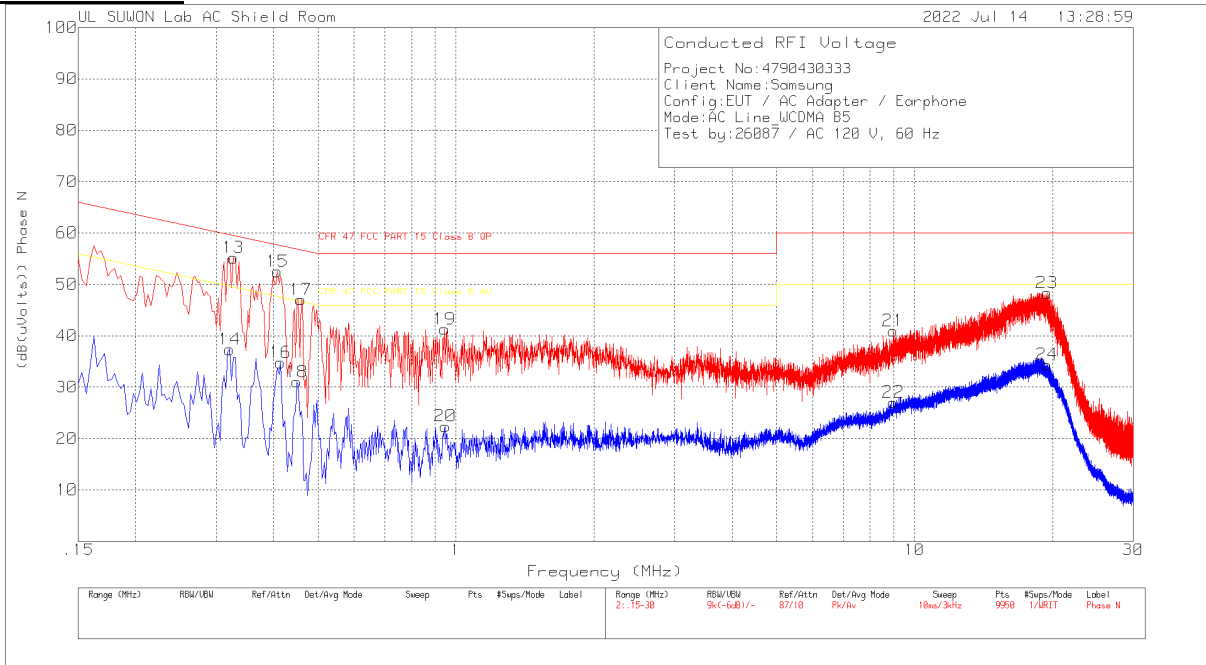
Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.32175	38.78	Qp	9.7	.2	48.68	59.66	-10.98	-	-
.39975	35.83	Qp	9.8	.2	45.83	57.86	-12.03	-	-

Qp - Quasi-Peak detector

6 WORST EMISSIONS(WCDMA B5 + 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_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	.327	45.3	Pk	9.7	.2	55.2	59.53	-4.33	-	-
14	.321	27.44	Av	9.7	.2	37.34	-	-	49.68	-12.34
15	.408	42.51	Pk	9.8	.2	52.51	57.69	-5.18	-	-
16	.414	24.77	Av	9.8	.2	34.77	-	-	47.57	-12.8
17	.459	36.95	Pk	9.9	.2	47.05	56.71	-9.66	-	-
18	.45	20.9	Av	9.9	.2	31	-	-	46.88	-15.88
19	.945	31.18	Pk	9.8	.3	41.28	56	-14.72	-	-
20	.948	12.31	Av	9.8	.3	22.41	-	-	46	-23.59
21	8.979	30.78	Pk	9.8	.4	40.98	60	-19.02	-	-
22	8.991	16.83	Av	9.8	.4	27.03	-	-	50	-22.97
23	19.446	37.74	Pk	10.2	.4	48.34	60	-11.66	-	-
24	19.455	23.77	Av	10.2	.4	34.37	-	-	50	-15.63

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

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)
.32775	40.72	Qp	9.7	.2	50.62	59.51	-8.89	-	-
.40725	39.46	Qp	9.8	.2	49.46	57.7	-8.24	-	-
.45825	31.21	Qp	9.9	.2	41.31	56.72	-15.41	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT