

CERTIFICATION TEST REPORT

Report Number. : 4790841155-E1V1

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

Model : SM-X516B

FCC ID : A3LSMX516B

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

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

Date Of Issue:

2023-07-14

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: GSM/WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.
MODEL NUMBER: SM-X516B
SERIAL NUMBER: R32W400YF3V (RADIATED)
DATE TESTED: 2023-06-07~ 2023-07-06;

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 47 CFR Part 2.
2. FCC 47 CFR 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 type="checkbox"/>	Chamber 1(3m semi-anechoic chamber)
<input type="checkbox"/>	Chamber 2(3m semi-anechoic chamber)
<input checked="" 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:

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

$$\begin{aligned} \text{Corrected Reading (dBuV)} &= \text{Meter Reading (dBuV)} + \text{External Cable (dB)} + \\ &\text{Cableloss (dB)} \\ 46.62 \text{ dBuV} + 9.8 \text{ dB} + 0.1 \text{ dB} &= 56.52 \text{ dBuV} \end{aligned}$$

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	2.80 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.92 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.06 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 GSM/WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.

5.2. TEST MODE

Mode	Description
GSM 850	Communicating with Call simulator(CMW500)
WCDMA BAND 5	
LTE BAND 12	
LTE BAND 13	
LTE BAND 26	

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
GSM 850	-	O	-
WCDMA B5	-	O	-
LTE B12	-	O	-
LTE B13	-	O	-
LTE B26	-	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 GSM 850(Rx Frequency range: 869-894 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 B12(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.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37M9KML7D2DK3	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02115A	N/A

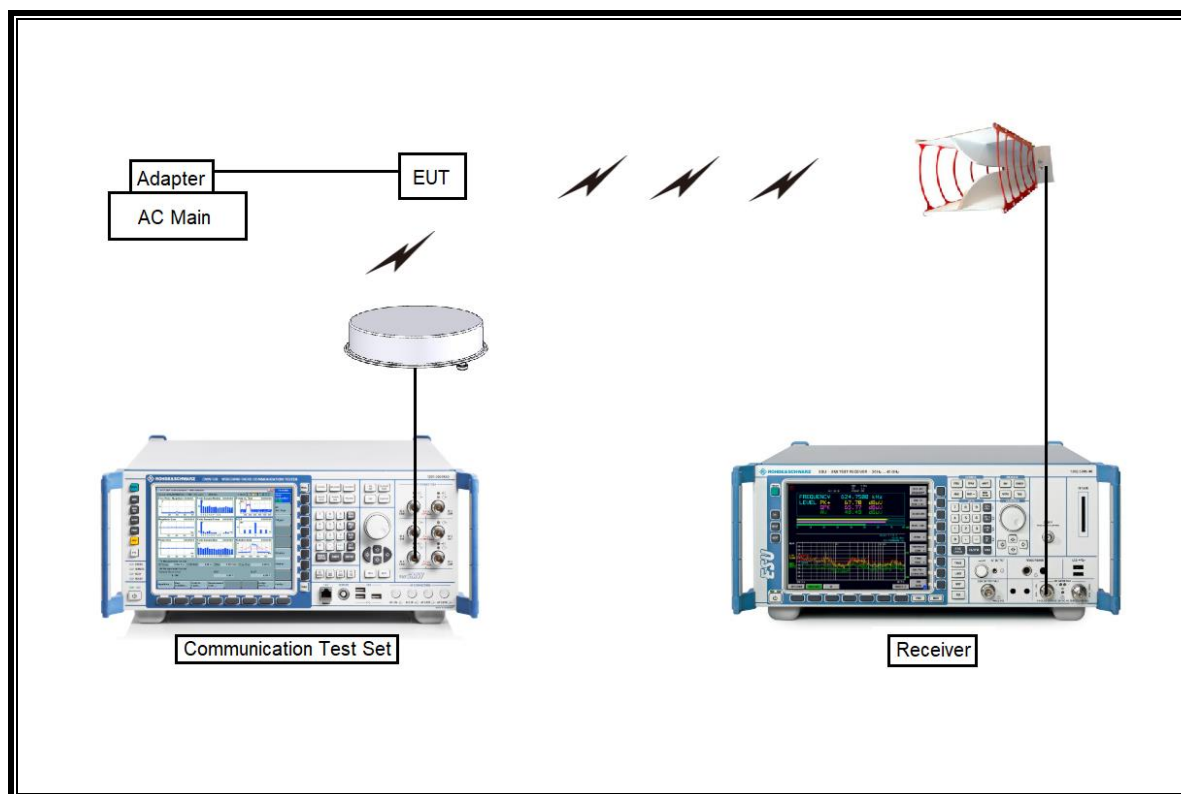
I/O CABLE

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

TEST SETUP

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

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	2025-01-17
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2024-08-02
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3115-PA	00167475	2023-08-04
Preamplifier	ETS	3116C-PA	00168841	2023-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15
Communications Test Set	R&S	CMW500	169796	2024-01-05
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	2029169	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	2023-08-01
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
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

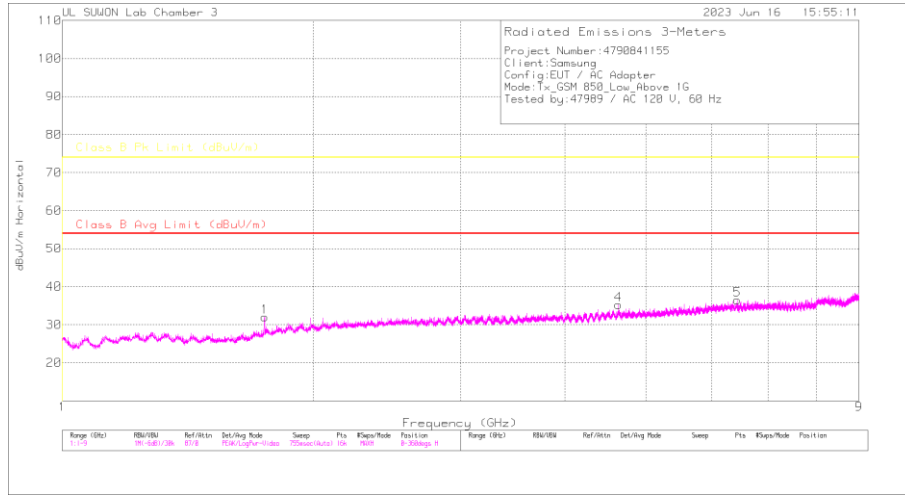
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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.	

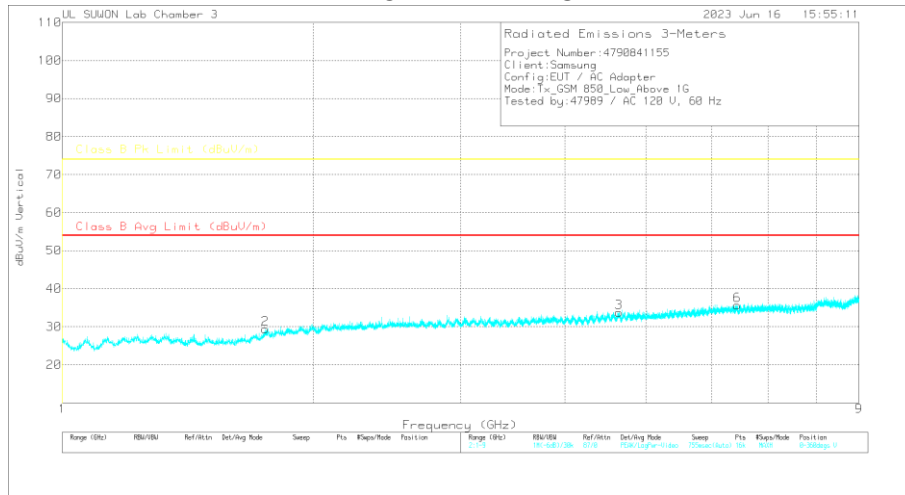
7.1.1. Above 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

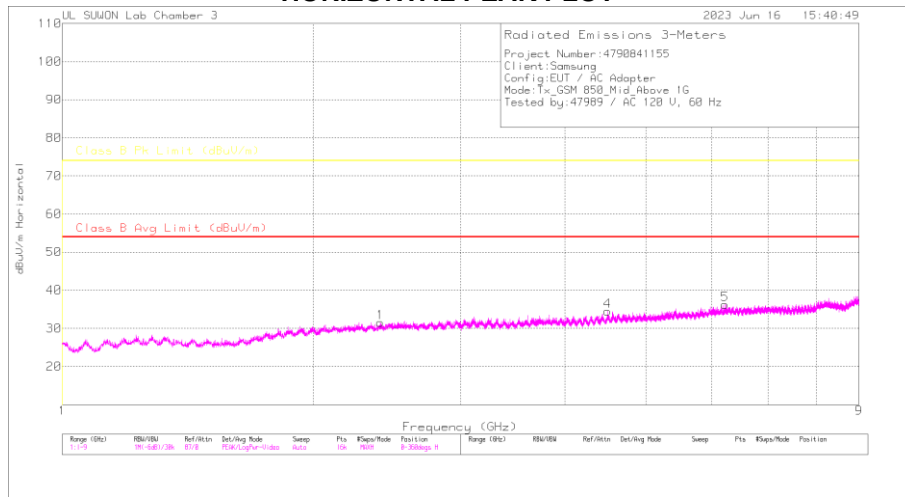
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.7475	31.73	Pk	29.9	-35.5	.7	26.83	-	-	74	-47.17	0	100	H
1.7475	20.52	Ca	29.9	-35.5	.7	15.62	54	-38.38	-	-	0	100	H
4.6375	29.03	Pk	34.3	-31.5	.5	32.33	-	-	74	-41.67	0	100	H
4.6375	17.44	Ca	34.3	-31.5	.5	20.74	54	-33.26	-	-	0	100	H
6.4305	25.62	Pk	35.9	-28.3	.5	33.72	-	-	74	-40.28	0	100	H
6.4305	14.21	Ca	35.9	-28.3	.5	22.31	54	-31.69	-	-	0	100	H
1.7515	31.78	Pk	29.9	-35.4	.7	26.98	-	-	74	-47.02	0	100	V
1.7515	20.72	Ca	29.9	-35.4	.7	15.92	54	-38.08	-	-	0	100	V
4.642	29.24	Pk	34.3	-31.5	.5	32.54	-	-	74	-41.46	0	100	V
4.642	17.38	Ca	34.3	-31.5	.5	20.68	54	-33.32	-	-	0	100	V
6.433	26.01	Pk	35.9	-28.3	.5	34.11	-	-	74	-39.89	0	100	V
6.433	14.14	Ca	35.9	-28.3	.5	22.24	54	-31.76	-	-	0	100	V

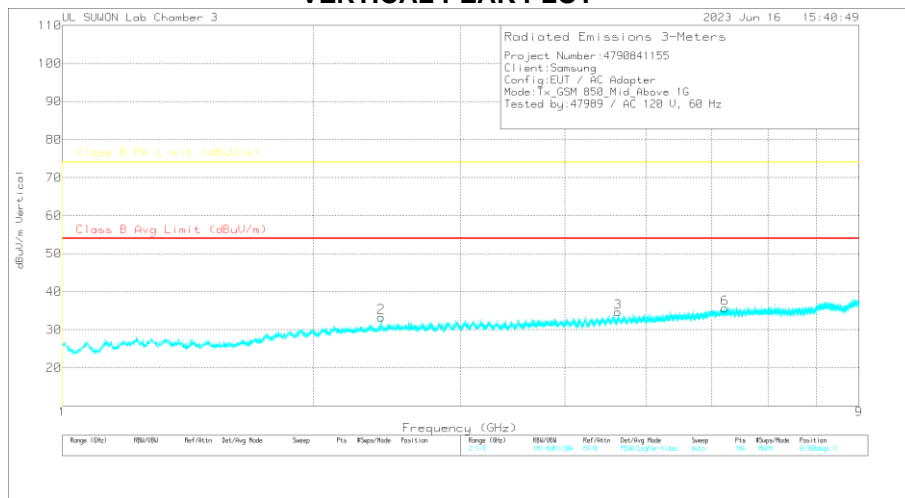
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

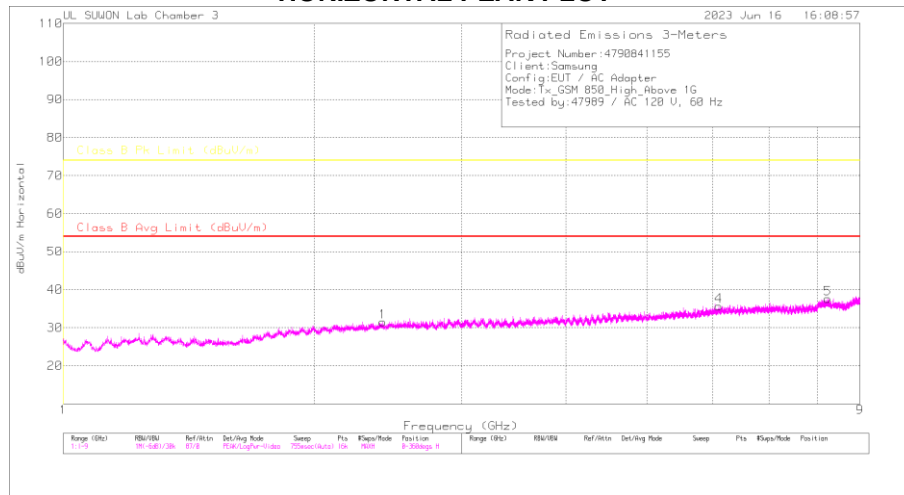
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.404	31.47	Pk	32.1	-34.9	.7	29.37	-	-	74	-44.63	0	100	H
2.404	20.12	Ca	32.1	-34.9	.7	18.02	54	-35.98	-	-	0	100	H
4.497	28.7	Pk	34.1	-31.6	.5	31.7	-	-	74	-42.3	0	100	H
4.497	17.23	Ca	34.1	-31.6	.5	20.23	54	-33.77	-	-	0	100	H
6.221	25.59	Pk	36	-28.9	.5	33.19	-	-	74	-40.81	0	100	H
6.221	14.78	Ca	36	-28.9	.5	22.38	54	-31.62	-	-	0	100	H
2.41	31.26	Pk	32.1	-34.9	.7	29.16	-	-	74	-44.84	0	100	V
2.41	20.14	Ca	32.1	-34.9	.7	18.04	54	-35.96	-	-	0	100	V
4.6315	28.54	Pk	34.3	-31.6	.5	31.74	-	-	74	-42.26	0	100	V
4.6315	17.28	Ca	34.3	-31.6	.5	20.48	54	-33.52	-	-	0	100	V
6.218	26.42	Pk	36	-28.9	.5	34.02	-	-	74	-39.98	0	100	V
6.218	14.74	Ca	36	-28.9	.5	22.34	54	-31.66	-	-	0	100	V

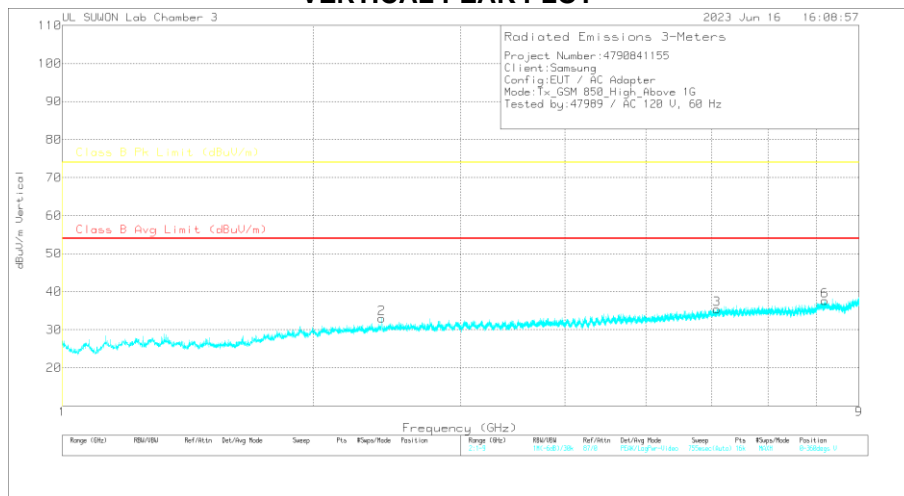
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

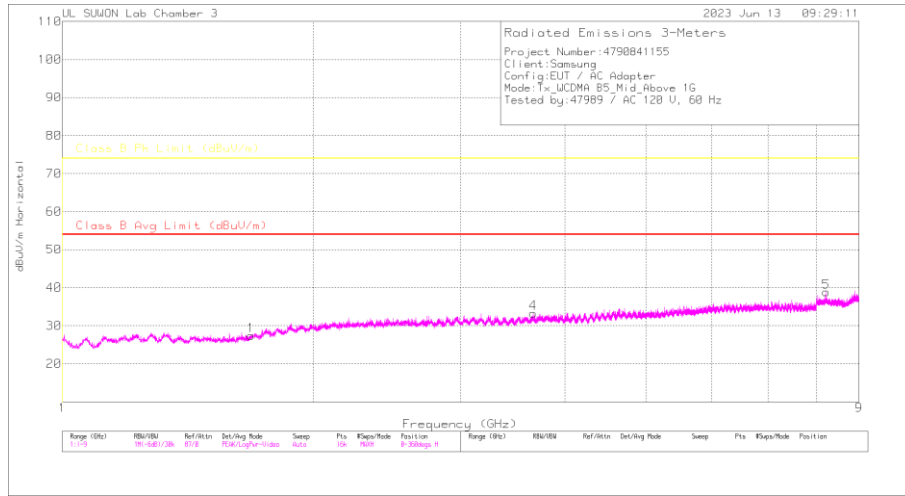
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.415	30.98	Pk	32.2	-34.9	.7	28.98	-	-	74	-45.02	0	100	H
2.415	20.02	Ca	32.2	-34.9	.7	18.02	54	-35.98	-	-	0	100	H
6.0975	27.27	Pk	35.9	-29.3	.5	34.37	-	-	74	-39.63	0	100	H
6.0975	15.04	Ca	35.9	-29.3	.5	22.14	54	-31.86	-	-	0	100	H
8.235	22.11	Pk	36	-24.1	.7	34.71	-	-	74	-39.29	0	100	H
8.235	11.59	Ca	36	-24.1	.7	24.19	54	-29.81	-	-	0	100	H
2.4135	34.05	Pk	32.2	-34.9	.7	32.05	-	-	74	-41.95	0	100	V
2.4135	20.24	Ca	32.2	-34.9	.7	18.24	54	-35.76	-	-	0	100	V
6.0855	27.46	Pk	35.9	-29.3	.5	34.56	-	-	74	-39.44	0	100	V
6.0855	15.01	Ca	35.9	-29.3	.5	22.11	54	-31.89	-	-	0	100	V
8.194	22.26	Pk	36	-24.1	.7	34.86	-	-	74	-39.14	0	100	V
8.194	11.45	Ca	36	-24.1	.7	24.05	54	-29.95	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

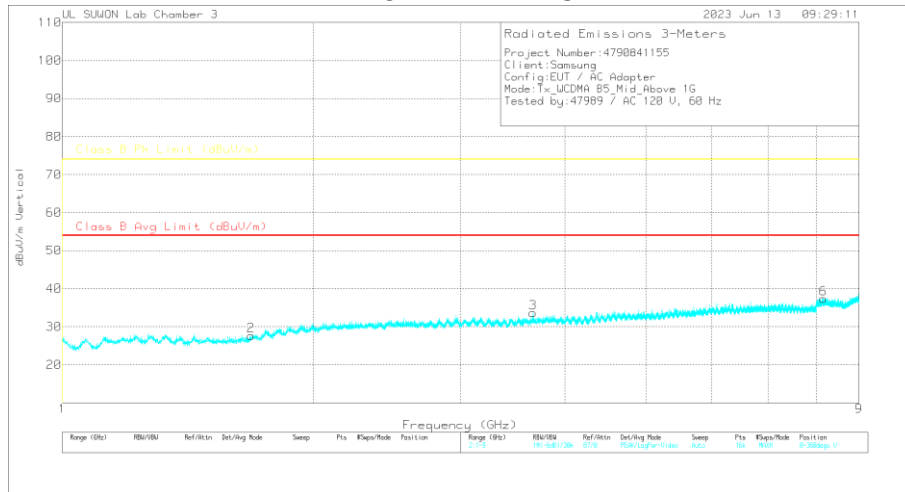
7.1.2. Above 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

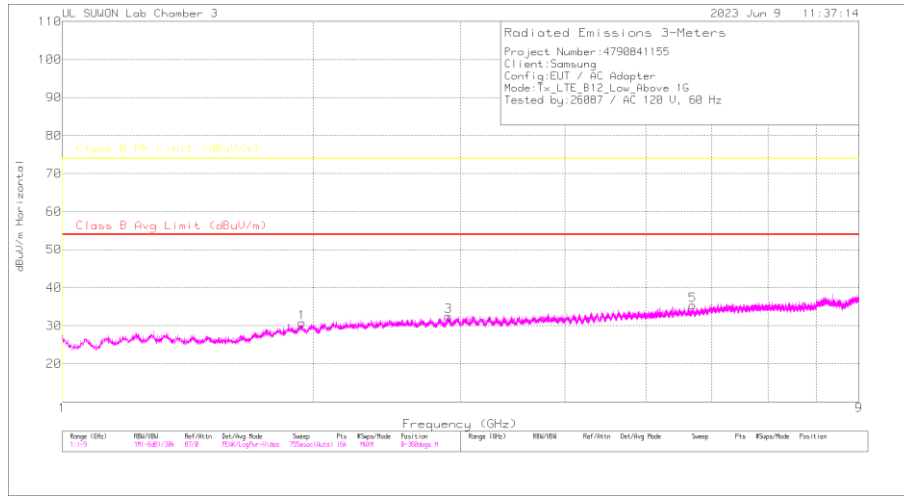
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.6825	31.63	Pk	28.8	-35.5	.7	25.63	-	-	74	-48.37	0	100	H
1.6825	20.43	Ca	28.8	-35.5	.7	14.43	54	-39.57	-	-	0	100	H
3.6665	29.93	Pk	33.2	-33	.6	30.73	-	-	74	-43.27	0	100	H
3.6665	18.45	Ca	33.2	-33	.6	19.25	54	-34.75	-	-	0	100	H
8.2235	23.03	Pk	36	-24	.7	35.73	-	-	74	-38.27	0	100	H
8.2235	11.67	Ca	36	-24	.7	24.37	54	-29.63	-	-	0	100	H
1.6835	32.27	Pk	28.8	-35.5	.7	26.27	-	-	74	-47.73	0	100	V
1.6835	20.45	Ca	28.8	-35.5	.7	14.45	54	-39.55	-	-	0	100	V
3.663	30.34	Pk	33.2	-32.9	.6	31.24	-	-	74	-42.76	0	100	V
3.663	18.5	Ca	33.2	-32.9	.6	19.4	54	-34.6	-	-	0	100	V
8.157	23.25	Pk	36	-24.3	.6	35.55	-	-	74	-38.45	0	100	V
8.157	11.73	Ca	36	-24.3	.6	24.03	54	-29.97	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

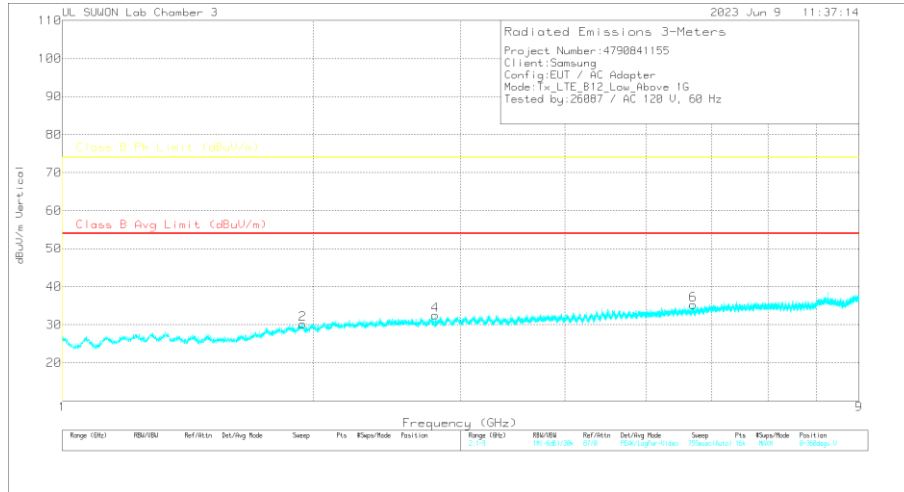
7.1.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

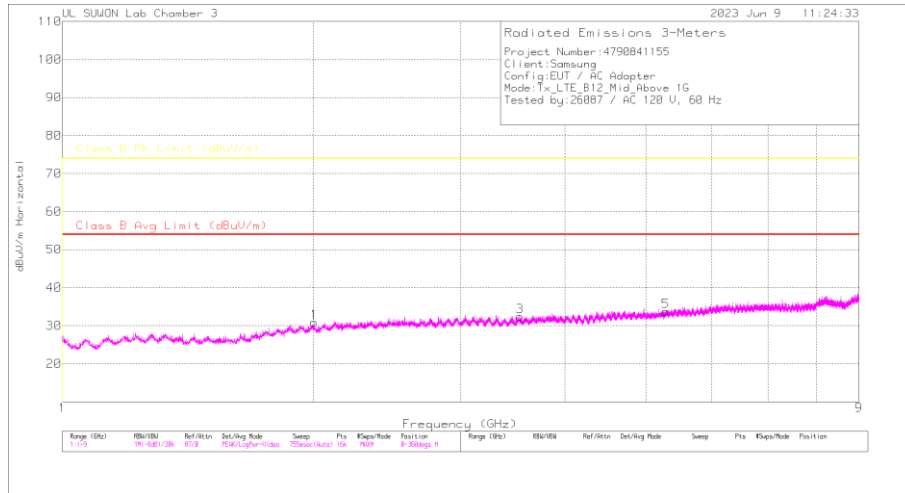
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.937	41.89	Pk	31	-35.2	.6	38.29	-	-	74	-35.71	0	100	H
1.937	29.62	Ca	31	-35.2	.6	26.02	54	-27.98	-	-	0	100	H
1.942	42	Pk	31	-35.2	.6	38.4	-	-	74	-35.6	0	100	V
1.942	29.42	Ca	31	-35.2	.6	25.82	54	-28.18	-	-	0	100	V
2.9015	41.63	Pk	32.6	-34.2	.7	40.73	-	-	74	-33.27	0	100	H
2.9015	28.71	Ca	32.6	-34.2	.7	27.81	54	-26.19	-	-	0	100	H
2.796	39.98	Pk	32.4	-34.3	.7	38.78	-	-	74	-35.22	0	100	V
2.796	27.87	Ca	32.4	-34.3	.7	26.67	54	-27.33	-	-	0	100	V
5.6945	36.65	Pk	34.9	-29.7	.5	42.35	-	-	74	-31.65	0	100	H
5.6945	24.61	Ca	34.9	-29.7	.5	30.31	54	-23.69	-	-	0	100	H
5.7	37.44	Pk	34.9	-29.7	.5	43.14	-	-	74	-30.86	0	100	V
5.7	24.51	Ca	34.9	-29.7	.5	30.21	54	-23.79	-	-	0	100	V

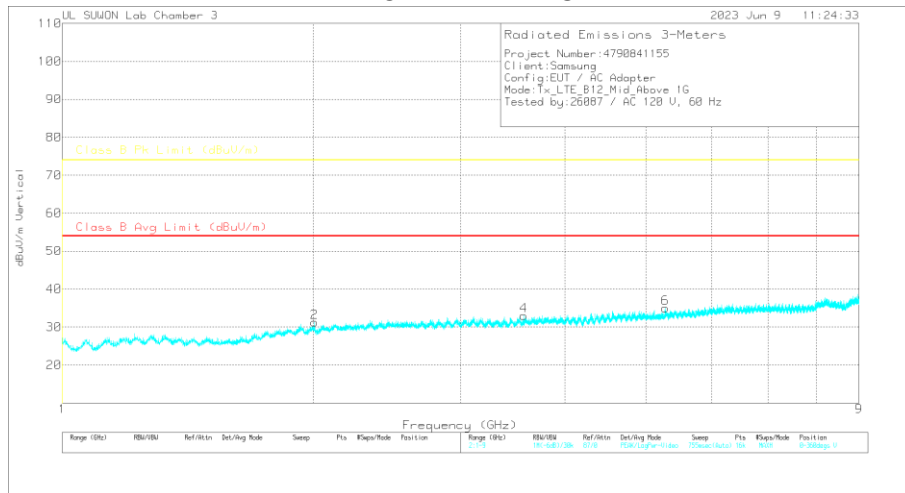
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

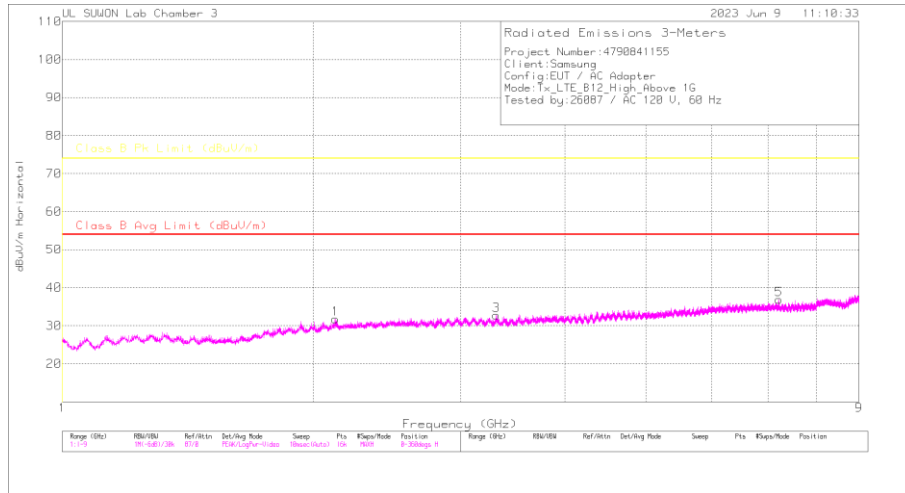
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.003	41.66	Pk	31.1	-35.2	.6	38.16	-	-	74	-35.84	0	100	H
2.003	29.38	Ca	31.1	-35.2	.6	25.88	54	-28.12	-	-	0	100	H
2.004	41.89	Pk	31.1	-35.2	.6	38.39	-	-	74	-35.61	0	100	V
2.004	29.35	Ca	31.1	-35.2	.6	25.85	54	-28.15	-	-	0	100	V
3.534	39.83	Pk	33.1	-33.4	.6	40.13	-	-	74	-33.87	0	100	H
3.534	27.45	Ca	33.1	-33.4	.6	27.75	54	-26.25	-	-	0	100	H
3.5725	40.55	Pk	33.1	-33.3	.6	40.95	-	-	74	-33.05	0	100	V
3.5725	27.27	Ca	33.1	-33.3	.6	27.67	54	-26.33	-	-	0	100	V
5.286	37.14	Pk	34.6	-30.6	.5	41.64	-	-	74	-32.36	0	100	H
5.286	25.27	Ca	34.6	-30.6	.5	29.77	54	-24.23	-	-	0	100	H
5.274	37.02	Pk	34.6	-30.7	.5	41.42	-	-	74	-32.58	0	100	V
5.274	25.07	Ca	34.6	-30.7	.5	29.47	54	-24.53	-	-	0	100	V

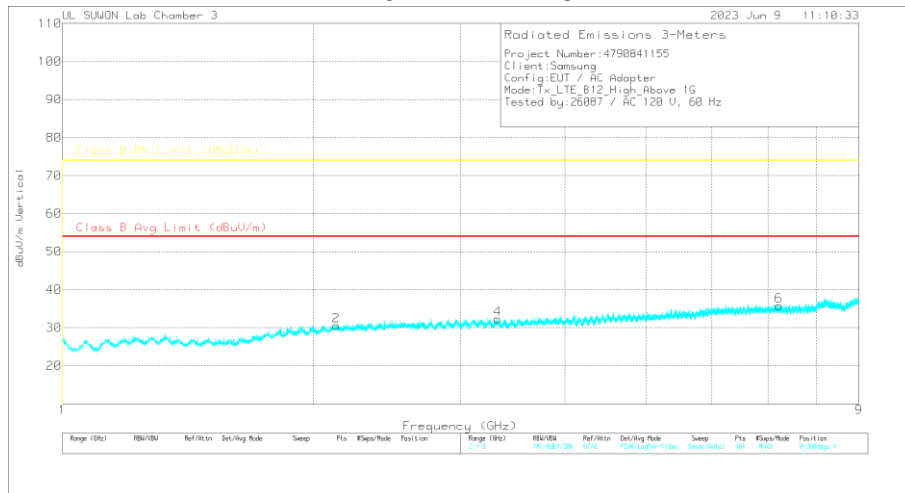
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

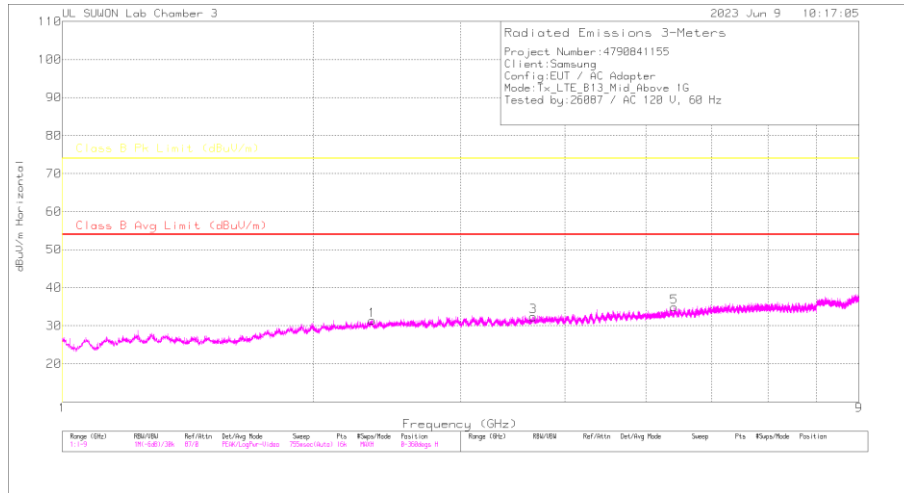
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.1235	41.92	Pk	31.5	-34.8	.7	39.32	-	-	74	-34.68	0	100	H
2.1235	29.27	Ca	31.5	-34.8	.7	26.67	54	-27.33	-	-	0	100	H
3.3105	41.04	Pk	32.8	-33.5	.7	41.04	-	-	74	-32.96	0	100	H
3.3105	27.95	Ca	32.8	-33.5	.7	27.95	54	-26.05	-	-	0	100	H
7.22	33.63	Pk	35.8	-26.2	.5	43.73	-	-	74	-30.27	0	100	H
7.22	21.58	Ca	35.8	-26.2	.5	31.68	54	-22.32	-	-	0	100	H
2.129	41.43	Pk	31.5	-34.6	.7	38.83	-	-	74	-35.17	0	100	V
2.129	29.51	Ca	31.5	-34.6	.7	26.91	54	-27.09	-	-	0	100	V
3.3235	39.89	Pk	32.8	-33.5	.7	39.89	-	-	74	-34.11	0	100	V
3.3235	27.84	Ca	32.8	-33.5	.7	27.84	54	-26.16	-	-	0	100	V
7.2205	34.44	Pk	35.8	-26.2	.5	44.54	-	-	74	-29.46	0	100	V
7.2205	21.6	Ca	35.8	-26.2	.5	31.7	54	-22.3	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

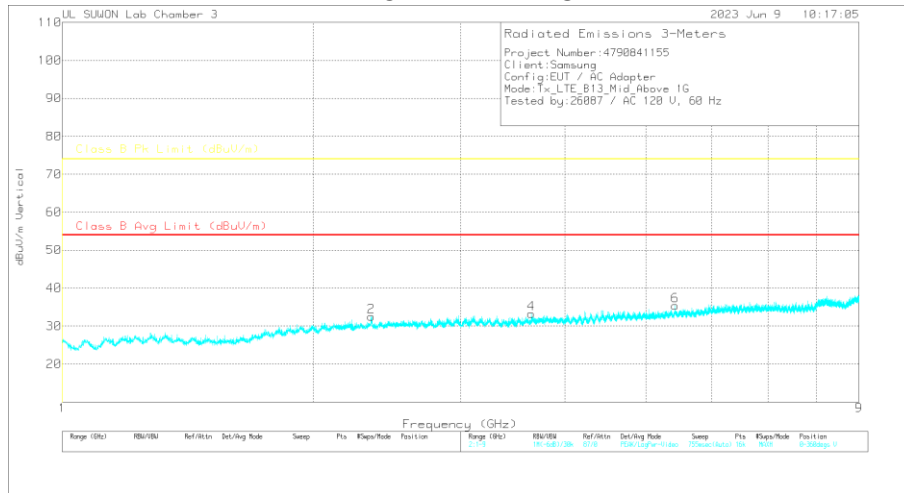
7.1.4. Above 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

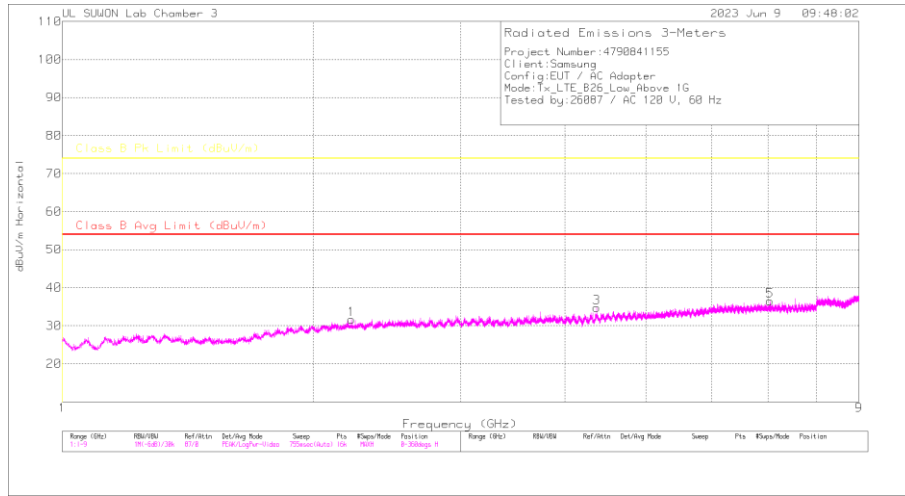
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.351	41.38	Pk	32	-34.7	.7	39.58	-	-	74	-34.62	0	100	H
2.351	28.94	Ca	32	-34.7	.7	26.94	54	-27.06	-	-	0	100	H
2.3455	40.95	Pk	32	-34.7	.7	38.95	-	-	74	-35.05	0	100	V
2.3455	28.99	Ca	32	-34.7	.7	26.99	54	-27.01	-	-	0	100	V
3.6655	39.1	Pk	33.2	-33	.6	39.9	-	-	74	-34.1	0	100	H
3.6655	27.28	Ca	33.2	-33	.6	28.08	54	-25.92	-	-	0	100	H
3.6485	39.43	Pk	33.2	-33	.6	40.23	-	-	74	-33.77	0	100	V
3.6485	27.08	Ca	33.2	-33	.6	27.88	54	-26.12	-	-	0	100	V
5.412	37.57	Pk	34.8	-30.4	.5	42.47	-	-	74	-31.53	0	100	H
5.412	24.94	Ca	34.8	-30.4	.5	29.84	54	-24.16	-	-	0	100	H
5.4255	37.11	Pk	34.9	-30.3	.5	42.21	-	-	74	-31.79	0	100	V
5.4255	25.18	Ca	34.9	-30.3	.5	30.28	54	-23.72	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

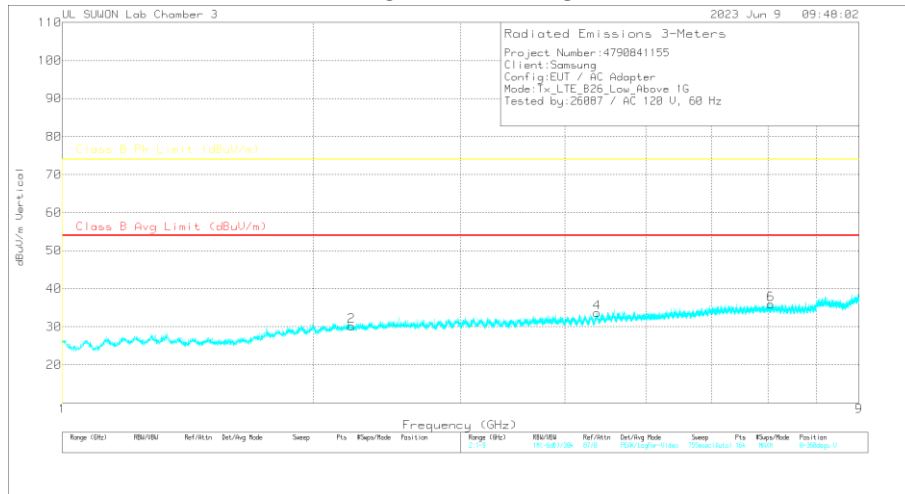
7.1.5. Above 1 GHz in the LTE Band 26

LOW CHANNEL(871.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

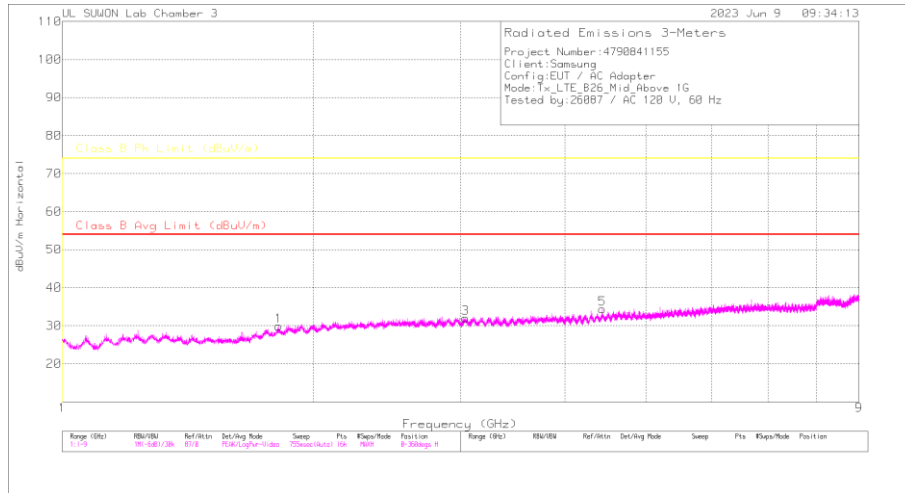
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.2195	41.1	Pk	31.6	-34.8	.7	38.6	-	-	74	-35.4	0	100	H
2.2195	28.84	Ca	31.6	-34.8	.7	26.34	54	-27.66	-	-	0	100	H
2.2195	41.77	Pk	31.6	-34.8	.7	39.27	-	-	74	-34.73	0	100	V
2.2195	28.84	Ca	31.6	-34.8	.7	26.34	54	-27.66	-	-	0	100	V
4.3655	38.76	Pk	33.8	-31.8	.5	41.26	-	-	74	-32.74	0	100	H
4.3655	26.48	Ca	33.8	-31.8	.5	28.98	54	-25.02	-	-	0	100	H
4.3705	38.82	Pk	33.8	-31.7	.5	41.42	-	-	74	-32.58	0	100	V
4.3705	26.51	Ca	33.8	-31.7	.5	29.11	54	-24.89	-	-	0	100	V
7.039	34.39	Pk	35.9	-28.9	.5	43.89	-	-	74	-30.11	0	100	H
7.039	21.62	Ca	35.9	-28.9	.5	31.12	54	-22.88	-	-	0	100	H
7.0585	33.86	Pk	35.9	-28.8	.5	43.46	-	-	74	-30.54	0	100	V
7.0585	21.5	Ca	35.9	-28.8	.5	31.1	54	-22.9	-	-	0	100	V

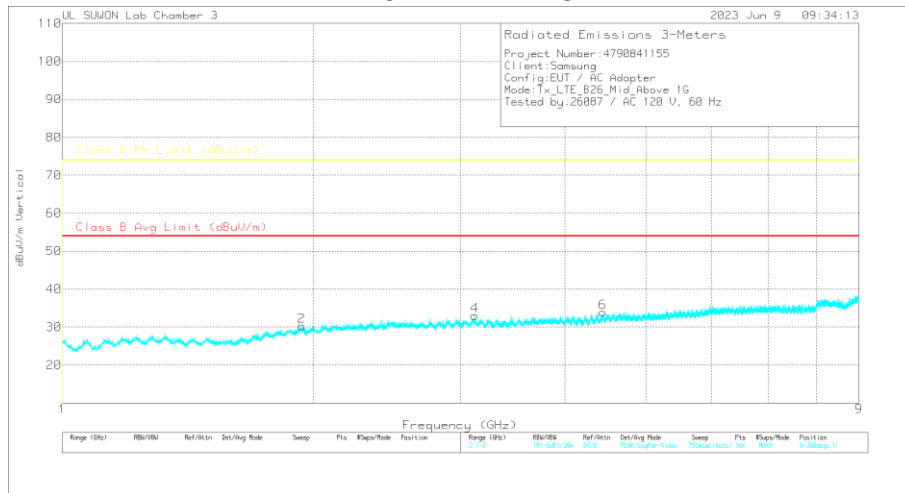
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

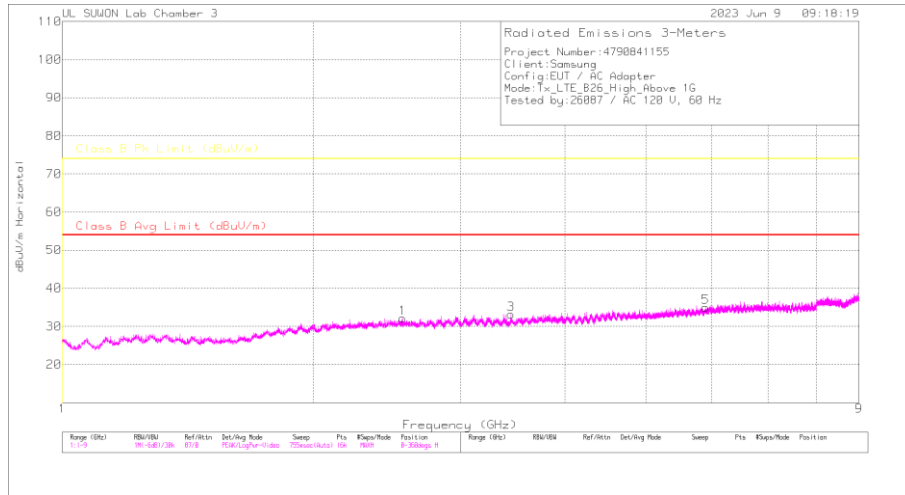
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.8165	41.81	Pk	30.2	-35.5	.7	37.21	-	-	74	-36.79	0	100	H
1.8165	29.63	Ca	30.2	-35.5	.7	25.03	54	-28.97	-	-	0	100	H
1.9365	41.82	Pk	31	-35.2	.6	38.22	-	-	74	-35.78	0	100	V
1.9365	29.54	Ca	31	-35.2	.6	25.94	54	-28.06	-	-	0	100	V
3.042	41.03	Pk	32.9	-34.2	.7	40.43	-	-	74	-33.57	0	100	H
3.042	28.41	Ca	32.9	-34.2	.7	27.81	54	-26.19	-	-	0	100	H
3.1195	40.73	Pk	32.9	-34	.7	40.33	-	-	74	-33.67	0	100	V
3.1195	28.08	Ca	32.9	-34	.7	27.68	54	-26.32	-	-	0	100	V
4.434	39.31	Pk	34	-31.7	.5	42.11	-	-	74	-31.89	0	100	H
4.434	26.4	Ca	34	-31.7	.5	29.2	54	-24.8	-	-	0	100	H
4.4405	39.36	Pk	34	-31.6	.5	42.26	-	-	74	-31.74	0	100	V
4.4405	26.39	Ca	34	-31.6	.5	29.29	54	-24.71	-	-	0	100	V

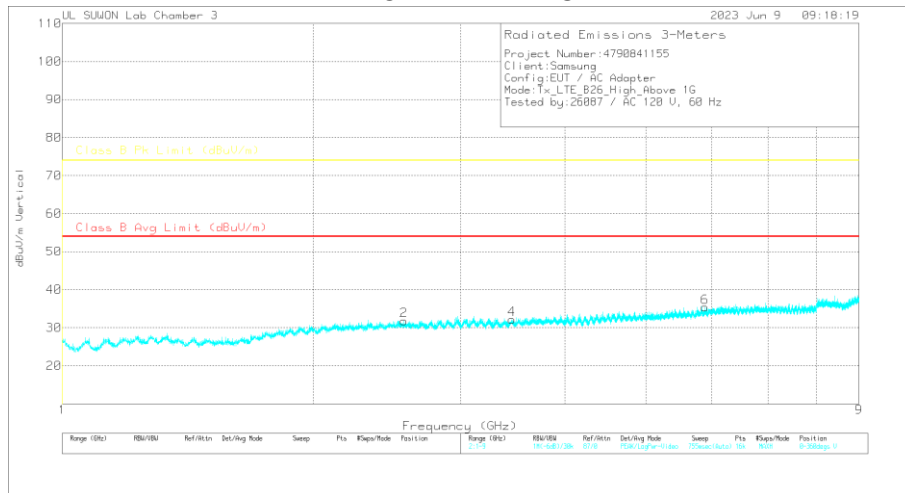
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(891.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

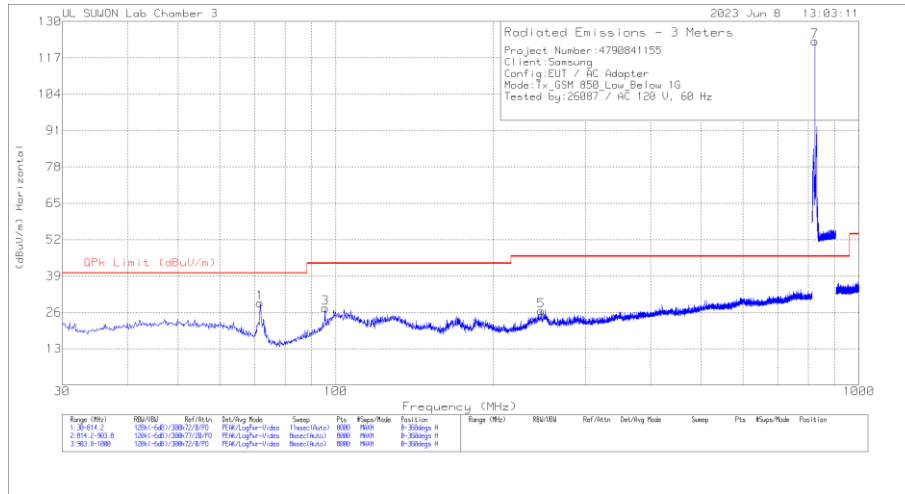
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.5565	41.01	Pk	32.4	-34.6	.7	39.51	-	-	74	-34.49	0	100	H
2.5565	28.66	Ca	32.4	-34.6	.7	27.16	54	-26.84	-	-	0	100	H
2.5665	41.45	Pk	32.4	-34.6	.7	39.95	-	-	74	-34.05	0	100	V
2.5665	28.66	Ca	32.4	-34.6	.7	27.16	54	-26.84	-	-	0	100	V
3.446	39.77	Pk	32.9	-33.5	.6	39.77	-	-	74	-34.23	0	100	H
3.446	27.86	Ca	32.9	-33.5	.6	27.86	54	-26.14	-	-	0	100	H
3.457	40.41	Pk	32.9	-33.5	.6	40.41	-	-	74	-33.59	0	100	V
3.457	27.96	Ca	32.9	-33.5	.6	27.96	54	-26.04	-	-	0	100	V
5.8945	36.91	Pk	35.4	-29.6	.5	43.21	-	-	74	-30.79	0	100	H
5.8945	24.38	Ca	35.4	-29.6	.5	30.68	54	-23.32	-	-	0	100	H
5.886	36.75	Pk	35.3	-29.6	.5	42.95	-	-	74	-31.05	0	100	V
5.886	24.33	Ca	35.3	-29.6	.5	30.53	54	-23.47	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

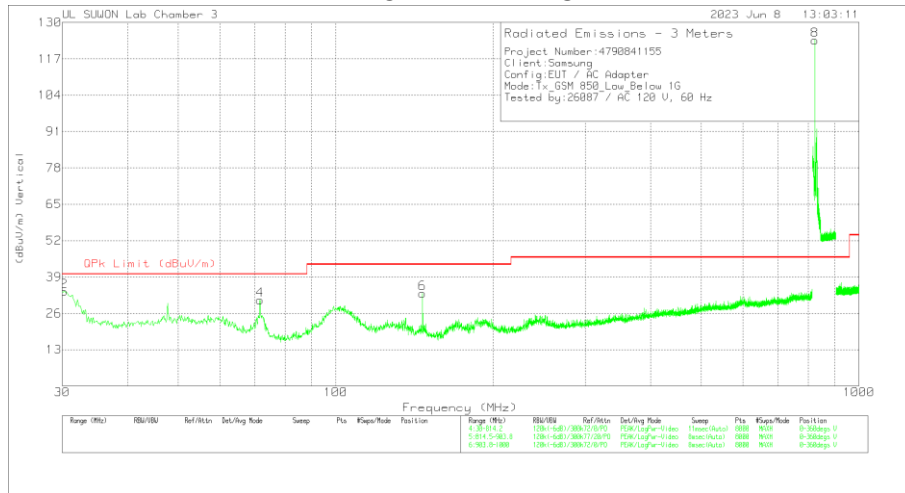
7.1.6. Below 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.6657	13.94	Pk	14.3	1.1	29.34	40	-10.66	0-360	300	H
3	95.4887	9.36	Pk	16.9	1.3	27.56	43.52	-15.96	0-360	100	H
5	246.8578	6.28	Pk	18.2	2.1	26.58	46.02	-19.44	0-360	100	H
7	824.2025	92.77	Pk	26.1	4	122.87	46.02	76.85	0-360	200	H
2	30.2451	17.29	Pk	15.8	.7	33.79	40	-6.21	0-360	200	V
4	71.6657	15.33	Pk	14.3	1.1	30.73	40	-9.27	0-360	200	V
6	146.566	17.88	Pk	13.6	1.6	33.08	43.52	-10.44	0-360	200	V
8	824.2015	93.52	Pk	26.1	4	123.62	46.02	77.6	0-360	100	V

Pk - Peak detector

Radiated Emissions

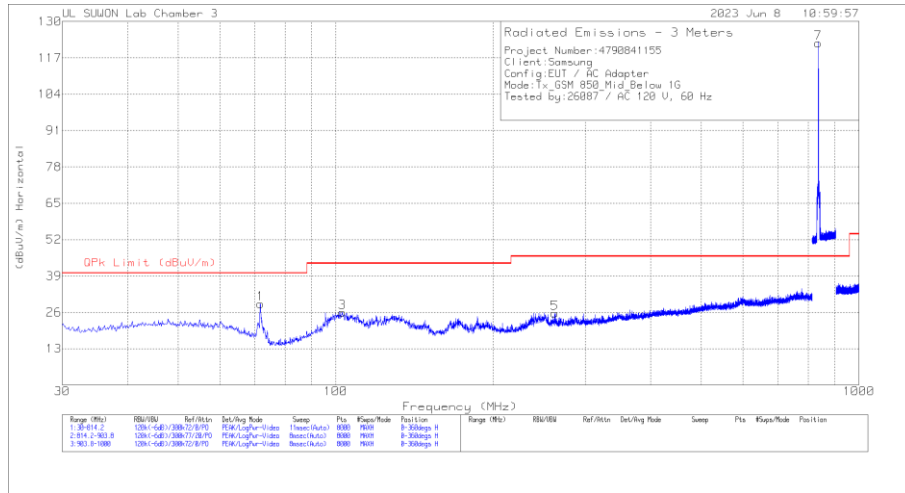
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.2451	14.3	Qp	15.8	.7	30.8	40	-9.2	191	102	V

Qp - Quasi-Peak detector

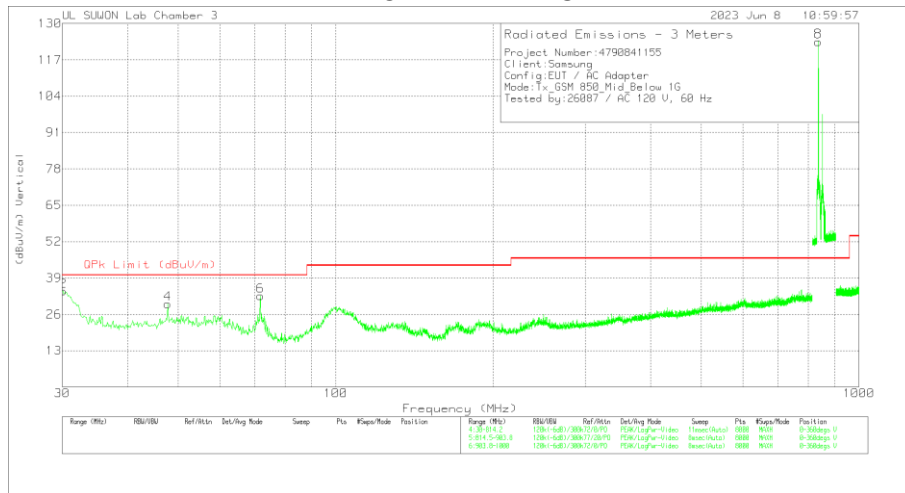
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.7638	13.6	Pk	14.3	1.1	29	40	-11	0-360	200	H
3	102.9395	7.26	Pk	17.4	1.4	26.06	43.52	-17.46	0-360	200	H
5	262.1516	5.36	Pk	18.1	2.2	25.66	46.02	-20.36	0-360	100	H
7	836.6132	91.96	Pk	26.3	4	122.26	46.02	76.24	0-360	200	H
2	30.098	17.71	Pk	15.9	.7	34.31	40	-5.69	0-360	100	V
4	47.7447	9.1	Pk	19.8	.9	29.8	40	-10.2	0-360	100	V
6	71.7638	17.27	Pk	14.3	1.1	32.67	40	-7.33	0-360	100	V
8	836.6047	93.22	Pk	26.3	4	123.52	46.02	77.5	0-360	300	V

Pk - Peak detector

Radiated Emissions

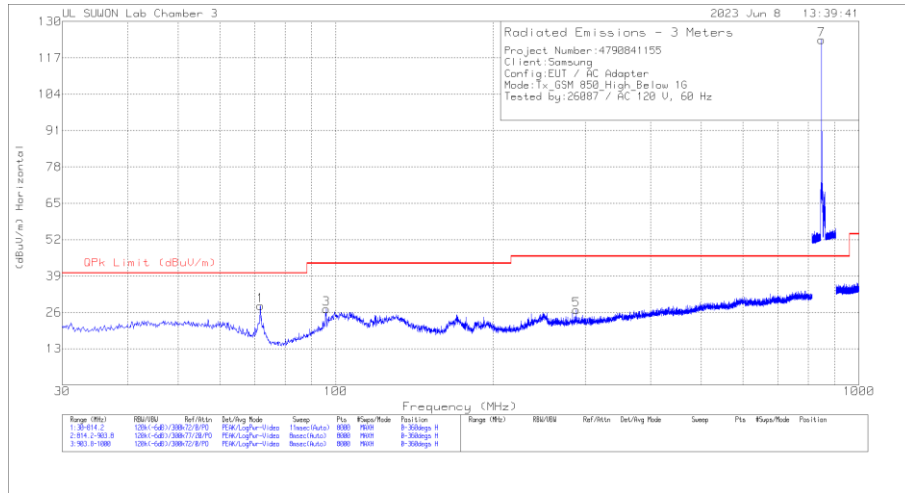
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.098	13.8	Qp	15.9	.7	30.4	40	-9.6	198	100	V

Qp - Quasi-Peak detector

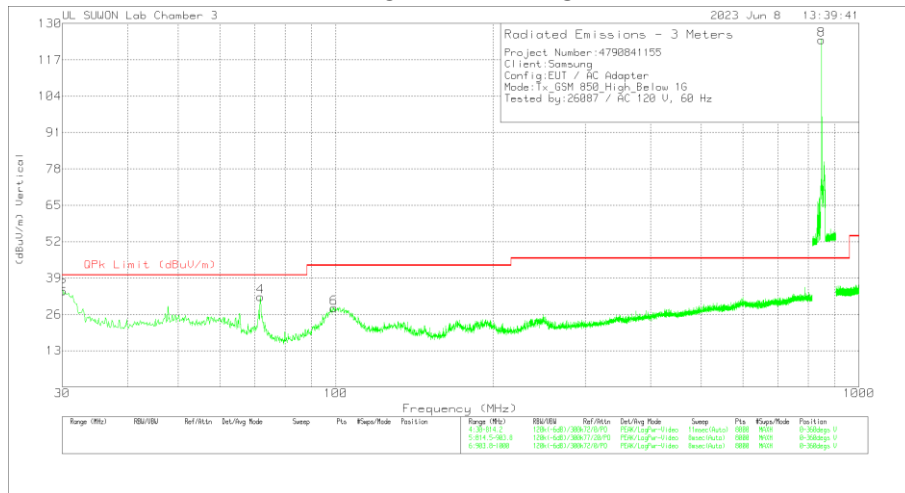
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.7638	13.01	Pk	14.3	1.1	28.41	40	-11.59	0-360	300	H
3	95.8809	8.89	Pk	17	1.3	27.19	43.52	-16.33	0-360	200	H
5	288.0334	5.87	Pk	18.6	2.3	26.77	46.02	-19.25	0-360	100	H
7	848.7999	92.78	Pk	26.6	4	123.38	46.02	77.36	0-360	200	H
2	30.098	17.68	Pk	15.9	.7	34.28	40	-5.72	0-360	200	V
4	71.7638	16.89	Pk	14.3	1.1	32.29	40	-7.71	0-360	200	V
6	99.2141	9.74	Pk	17.2	1.3	28.24	43.52	-15.28	0-360	200	V
8	848.7958	93.52	PK	26.6	4	124.12	46.02	78.1	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.098	14.2	Qp	15.9	.7	30.8	40	-9.2	197	102	V

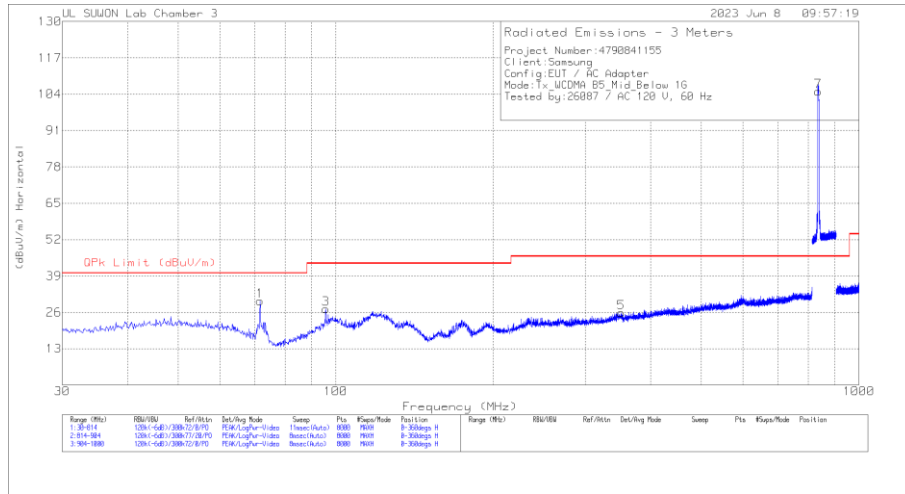
Qp - Quasi-Peak detector

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

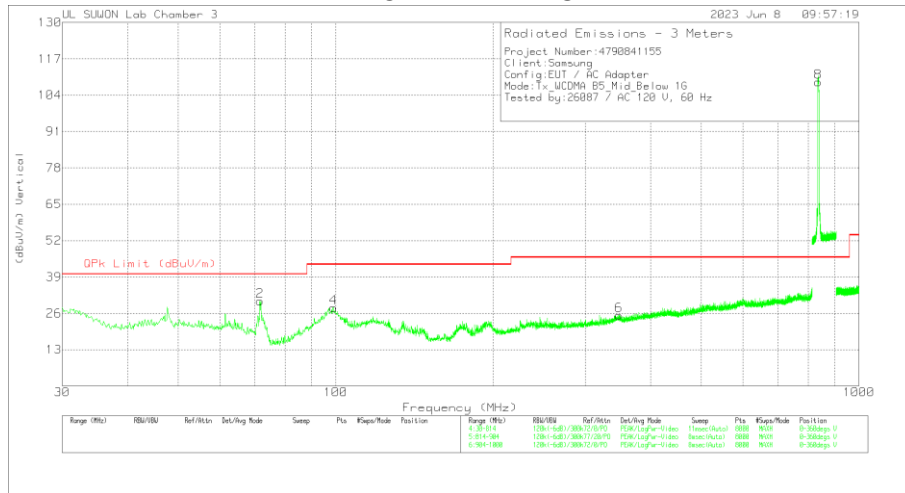
7.1.7. Below 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.6551	14.67	Pk	14.3	1.1	30.07	40	-9.93	0-360	200	H
3	95.668	8.86	Pk	17	1.3	27.16	43.52	-16.36	0-360	200	H
5	351.5774	2.95	Pk	20.2	2.6	25.75	46.02	-20.27	0-360	300	H
7	836.6033	74.66	Pk	26.3	4	104.96	46.02	58.94	0-360	200	H
2	71.6551	14.99	Pk	14.3	1.1	30.39	40	-9.61	0-360	200	V
4	98.9024	9.56	Pk	17.2	1.3	28.06	43.52	-15.46	0-360	200	V
6	347.9509	2.35	Pk	20.5	2.5	25.35	46.02	-20.67	0-360	200	V
8	836.6033	78.37	Pk	26.3	4	108.67	46.02	62.65	0-360	100	V

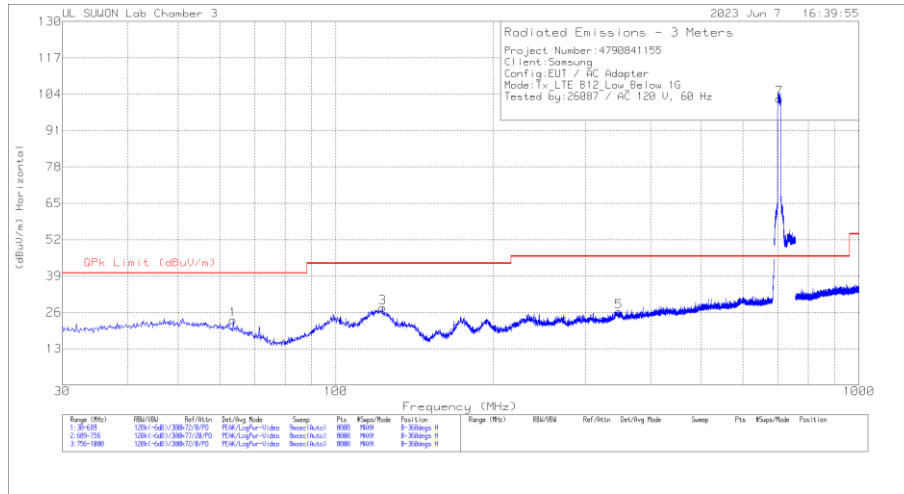
Pk - Peak detector

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

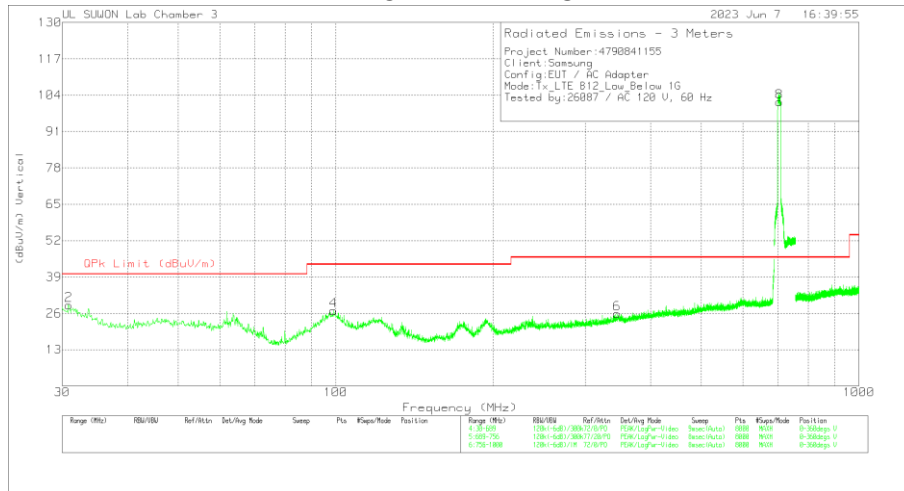
7.1.8. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

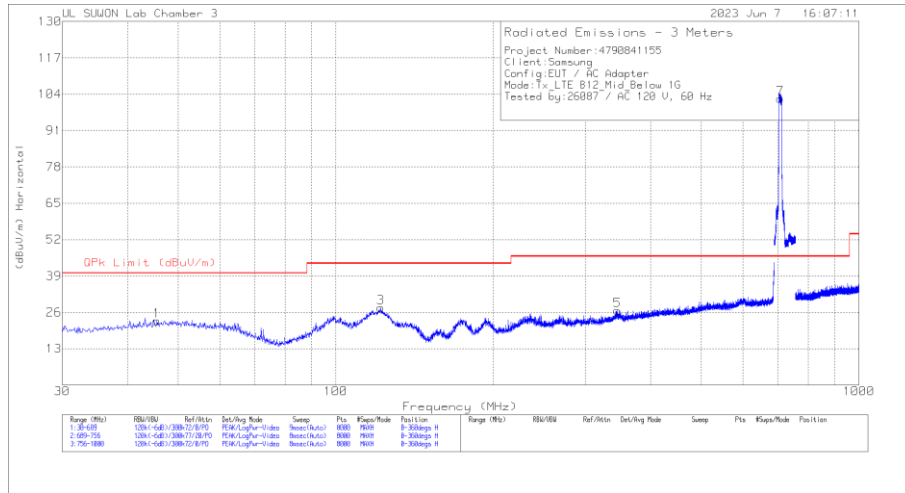
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	63.6955	4.91	Pk	17.3	1.1	23.31	40	-16.69	0-360	200	H
3	122.8479	10.96	Pk	15.2	1.5	27.66	43.52	-15.86	0-360	100	H
5	347.5942	3.23	Pk	20.5	2.5	26.23	46.02	-19.79	0-360	100	H
7	704.0014	73.95	Pk	24.7	3.7	102.35	46.02	56.33	0-360	200	H
2	30.9062	12.66	Pk	15.6	.7	28.96	40	-11.04	0-360	200	V
4	98.9562	8.43	Pk	17.2	1.3	26.93	43.52	-16.59	0-360	200	V
6	344.6283	2.99	Pk	20.4	2.5	25.89	46.02	-20.13	0-360	200	V
8	704.0014	73.16	Pk	24.7	3.7	101.56	46.02	55.54	0-360	100	V

Pk - Peak detector

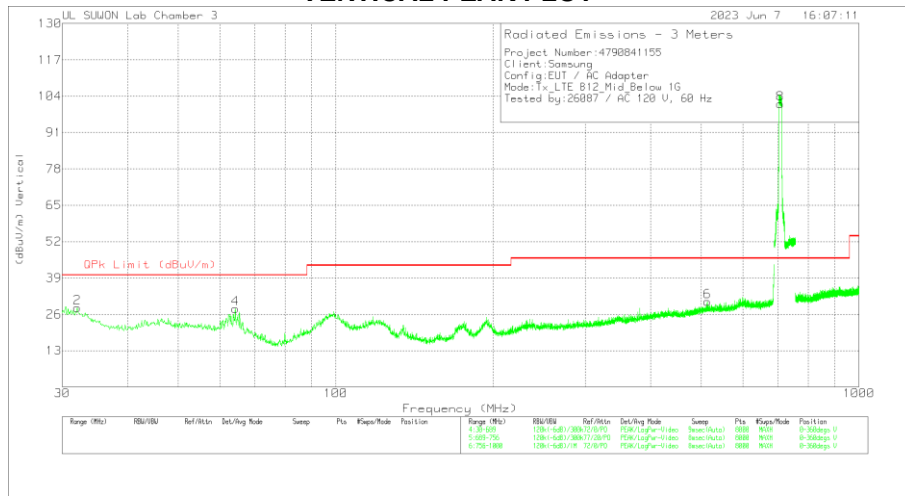
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

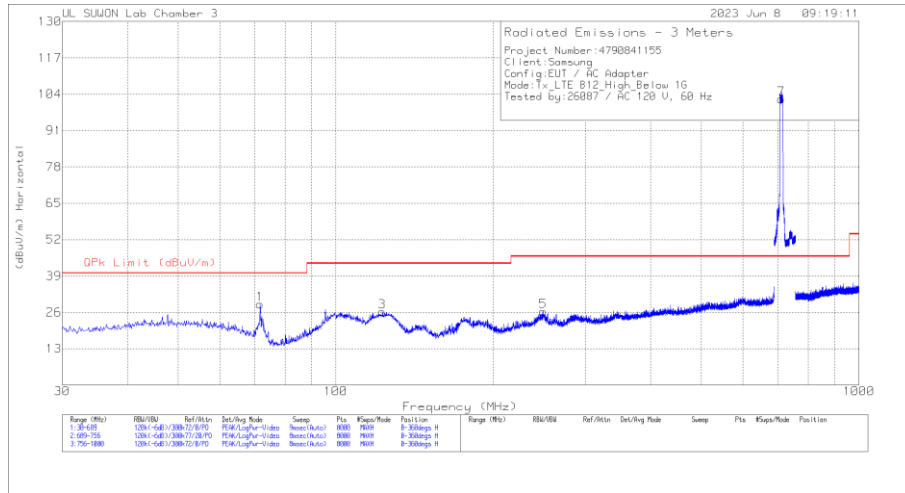
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	45.4884	2.39	Pk	19.6	.9	22.89	40	-17.11	0-360	300	H
3	121.8593	10.79	Pk	15.4	1.5	27.69	43.52	-15.83	0-360	100	H
5	345.7817	3.72	Pk	20.4	2.5	26.62	46.02	-19.4	0-360	100	H
7	707.5026	73.96	Pk	24.7	3.7	102.36	46.02	56.34	0-360	200	H
2	32.0596	11.94	PK	15.6	.8	28.34	40	-11.66	0-360	200	V
4	64.2722	9.86	Pk	17.1	1.1	28.06	40	-11.94	0-360	400	V
6	513.6	4.61	Pk	22.8	3.1	30.51	46.02	-15.51	0-360	400	V
8	707.5026	72.89	Pk	24.7	3.7	101.29	46.02	55.27	0-360	100	V

Pk - Peak detector

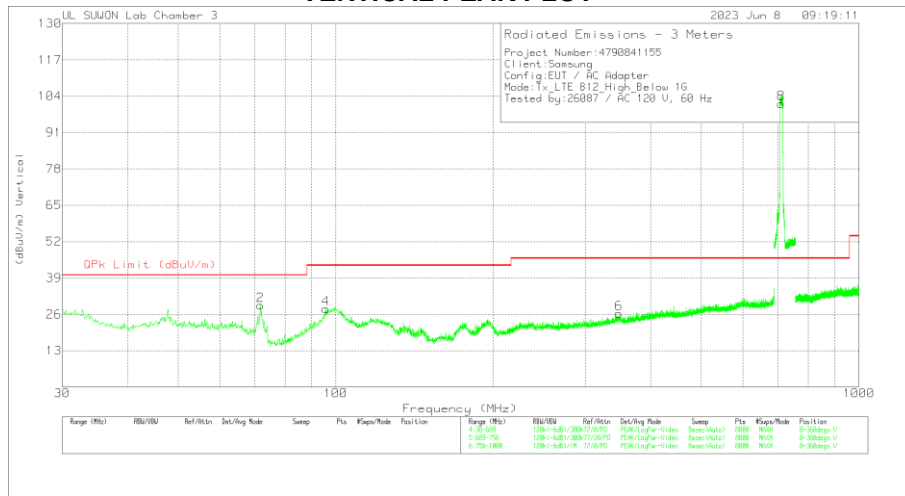
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.6456	13.54	Pk	14.3	1.1	28.94	40	-11.06	0-360	100	H
3	122.6831	9.33	Pk	15.3	1.5	26.13	43.52	-17.39	0-360	100	H
5	248.9793	5.98	Pk	18.3	2.1	26.38	46.02	-19.64	0-360	100	H
7	711.0121	73.85	Pk	24.7	3.7	102.25	46.02	56.23	0-360	200	H
2	71.7692	13.79	Pk	14.3	1.1	29.19	40	-10.81	0-360	300	V
4	95.6608	9.68	Pk	17	1.3	27.98	43.52	-15.54	0-360	300	V
6	347.4294	3.5	Pk	20.4	2.5	26.4	46.02	-19.62	0-360	300	V
8	711.0121	72.92	Pk	24.7	3.7	101.32	46.02	55.3	0-360	100	V

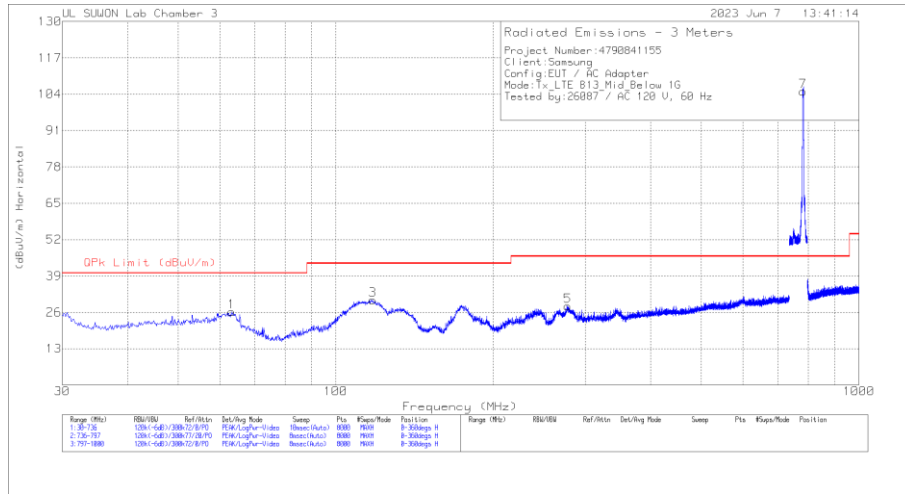
Pk - Peak detector

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

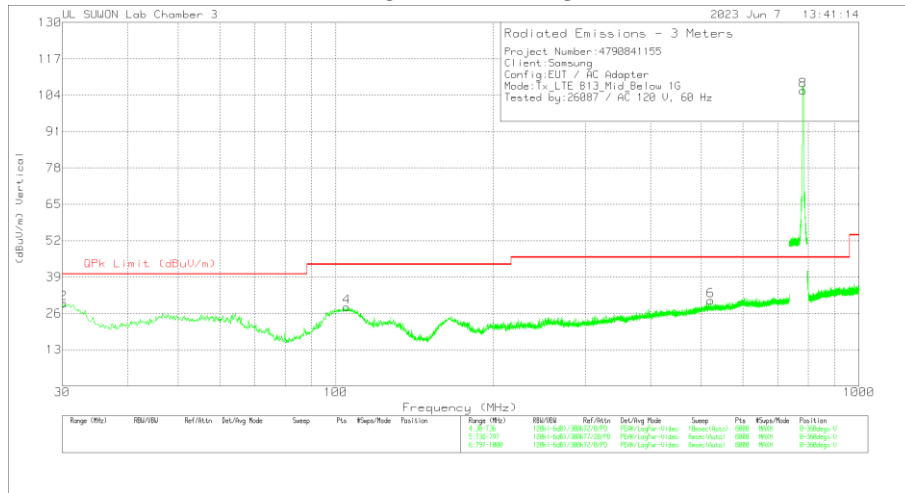
7.1.9. Below 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	63.1861	7.62	Pk	17.4	1.1	26.12	40	-13.88	0-360	300	H
3	117.5549	12.89	Pk	16	1.5	30.39	43.52	-13.13	0-360	200	H
5	277.5721	7.65	Pk	18.3	2.3	28.25	46.02	-17.77	0-360	100	H
7	782.0077	75.23	Pk	25.9	3.9	105.03	46.02	59.01	0-360	200	H
2	30.1765	12.98	Pk	15.8	.7	29.48	40	-10.52	0-360	200	V
4	104.9336	9.12	Pk	17.6	1.4	28.12	43.52	-15.4	0-360	200	V
6	521.1725	4.63	Pk	22.8	3.1	30.53	46.02	-15.49	0-360	200	V
8	782.0229	76.08	Pk	25.7	3.9	105.68	46.02	59.66	0-360	100	V

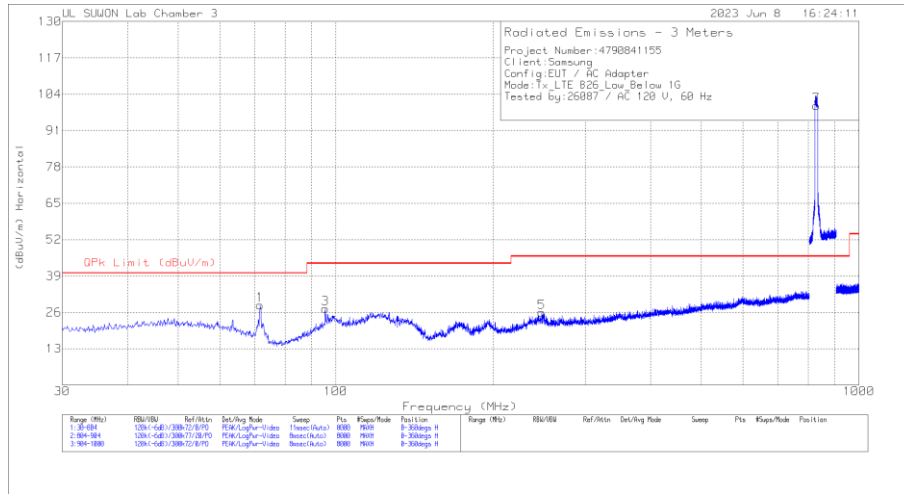
Pk - Peak detector

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

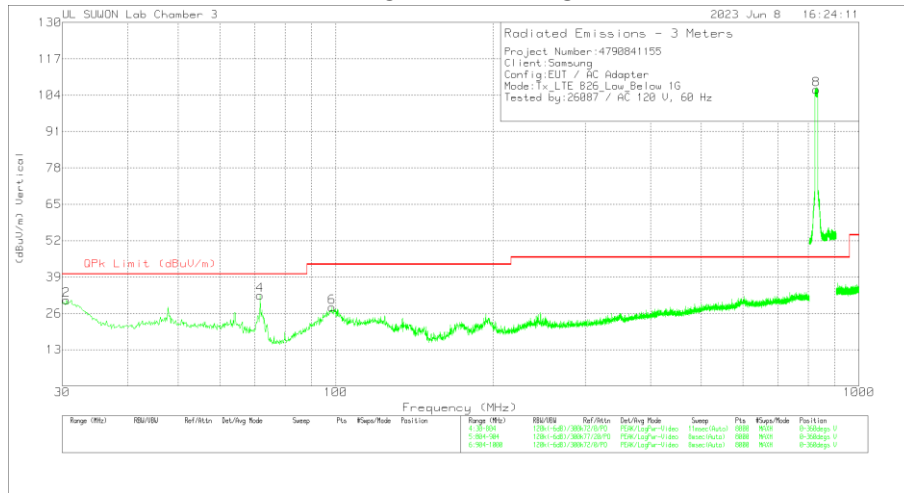
7.1.10.Below 1 GHz in the LTE Band 26

LOW CHANNEL(871.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

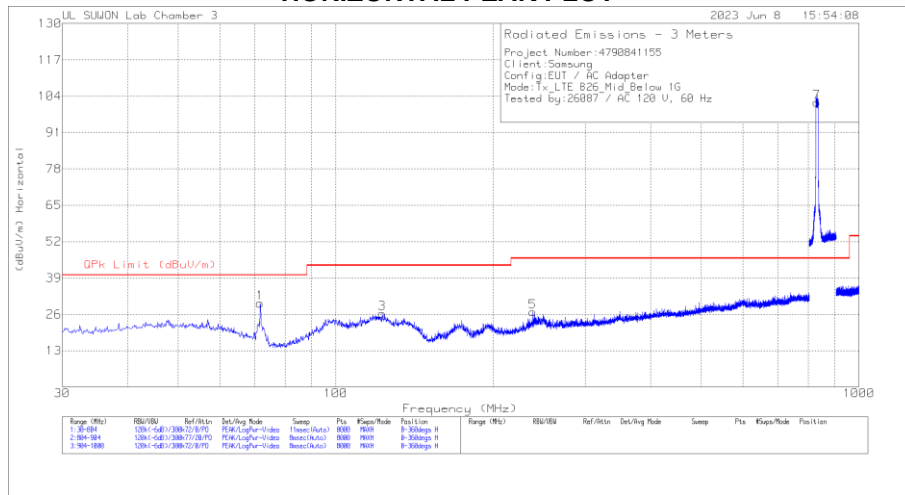
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.6077	13.12	Pk	14.4	1.1	28.62	40	-11.38	0-360	300	H
3	95.5079	9.03	Pk	17	1.3	27.33	43.52	-16.19	0-360	200	H
5	247.6177	5.73	Pk	18.2	2.1	26.03	46.02	-19.99	0-360	100	H
7	829.004	69.76	Pk	26.1	4	99.86	46.02	53.84	0-360	200	H
2	30.5806	14.3	Pk	15.7	.7	30.7	40	-9.3	0-360	200	V
4	71.7044	17.08	Pk	14.3	1.1	32.48	40	-7.52	0-360	200	V
6	98.314	9.76	Pk	17.1	1.3	28.16	43.52	-15.36	0-360	200	V
8	829.004	75.87	Pk	26.1	4	105.97	46.02	59.95	0-360	100	V

Pk - Peak detector

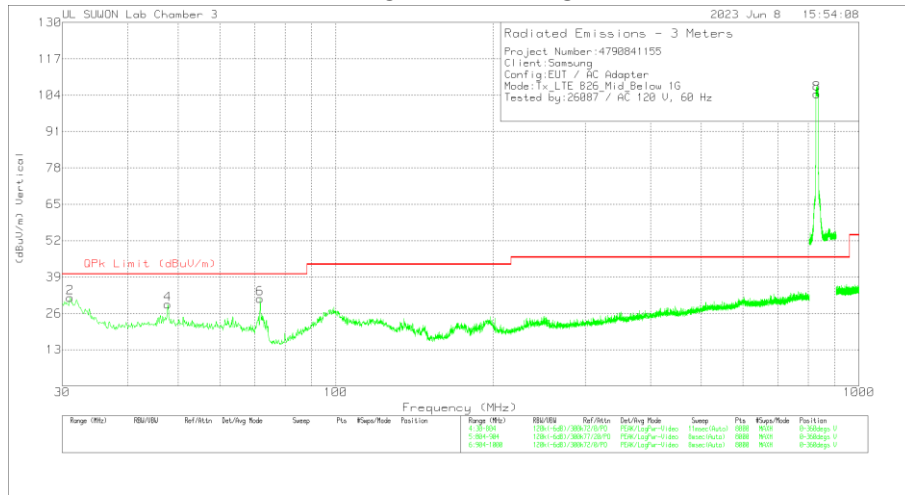
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

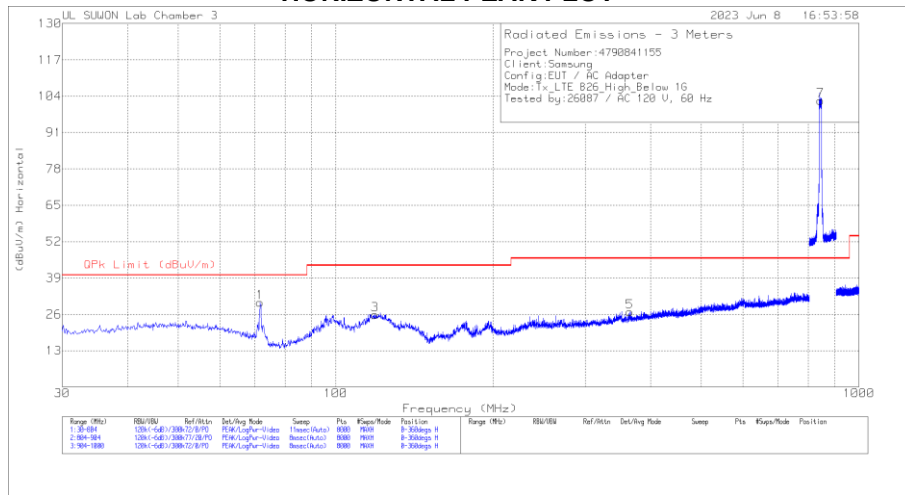
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.7044	14.58	Pk	14.3	1.1	29.98	40	-10.02	0-360	200	H
3	122.698	9.48	Pk	15.3	1.5	26.28	43.52	-17.24	0-360	100	H
5	238.1351	7.03	Pk	17.7	2.1	26.83	46.02	-19.19	0-360	100	H
7	831.5044	71.57	Pk	26.2	4	101.77	46.02	55.75	0-360	200	H
2	31.0644	15.25	Pk	15.6	.7	31.55	40	-8.45	0-360	200	V
4	47.7074	8.52	Pk	19.8	.9	29.22	40	-10.78	0-360	200	V
6	71.656	15.88	Pk	14.3	1.1	31.28	40	-8.72	0-360	200	V
8	831.5044	74.31	Pk	26.2	4	104.51	46.02	58.49	0-360	100	V

Pk - Peak detector

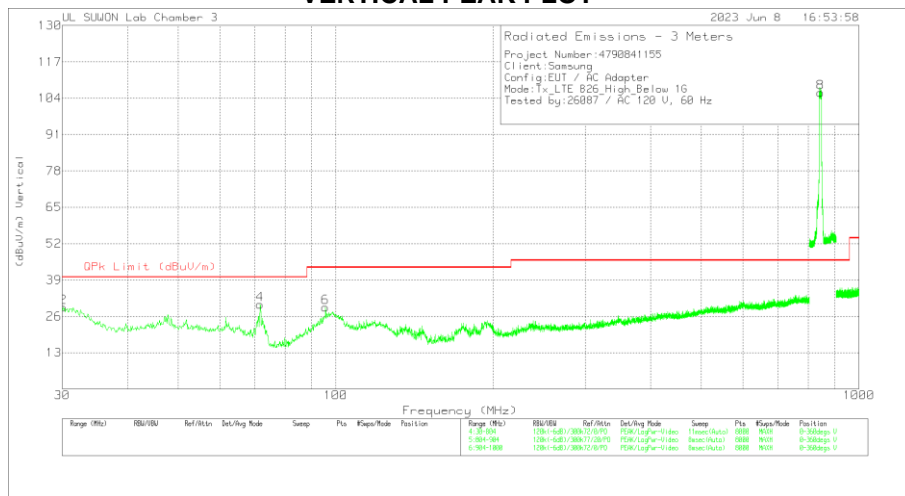
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.6077	14.7	Pk	14.4	1.1	30.2	40	-9.8	0-360	200	H
3	118.9243	8.5	Pk	15.8	1.5	25.8	43.52	-17.72	0-360	200	H
5	364.4095	4.18	Pk	20.1	2.6	26.88	46.02	-19.14	0-360	100	H
7	844.0189	71.99	Pk	26.4	4	102.39	46.02	56.37	0-360	200	H
2	30.0968	12.64	Pk	15.9	.7	29.24	40	-10.76	0-360	200	V
4	71.7044	14.78	Pk	14.3	1.1	30.18	40	-9.82	0-360	300	V
6	95.6046	10.88	Pk	17	1.3	29.18	43.52	-14.34	0-360	300	V
8	844.0189	75.51	Pk	26.4	4	105.91	46.02	59.89	0-360	100	V

Pk - Peak detector

Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz 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

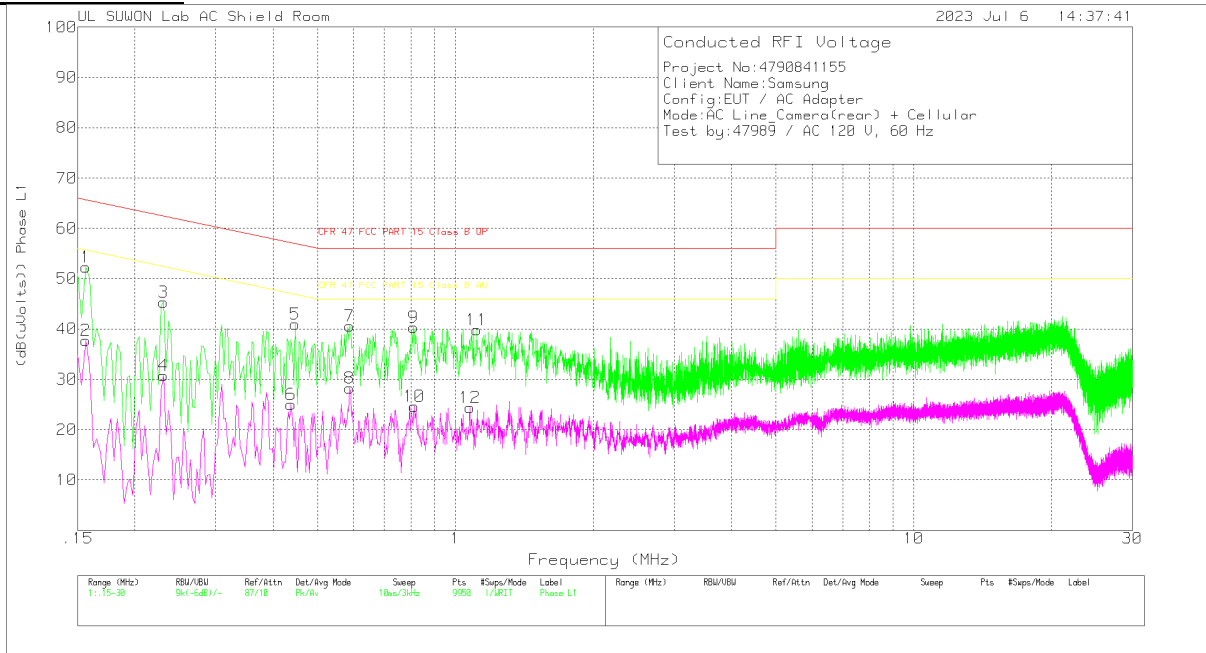
Notes:
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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

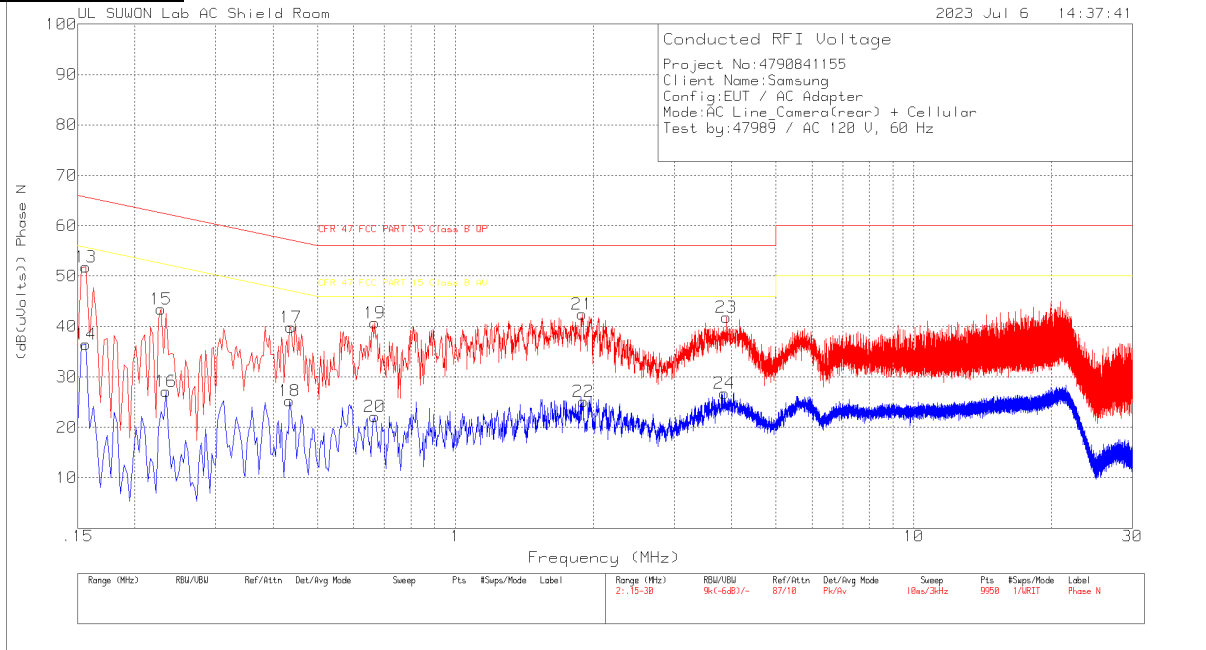
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_AU TO_With EX_L1[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.156	42.71	Pk	9.5	.1	52.31	65.67	-13.36	-	-
2	.156	28.15	Av	9.5	.1	37.75	-	-	55.67	-17.92
3	.231	35.6	Pk	9.5	.2	45.3	62.41	-17.11	-	-
4	.231	20.99	Av	9.5	.2	30.69	-	-	52.41	-21.72
5	.447	31.28	Pk	9.5	.2	40.98	56.93	-15.95	-	-
6	.438	15.36	Av	9.5	.2	25.06	-	-	47.1	-22.04
7	.588	30.8	Pk	9.6	.2	40.6	56	-15.4	-	-
8	.588	18.4	Av	9.6	.2	28.2	-	-	46	-17.8
9	.81	30.58	Pk	9.6	.2	40.38	56	-15.62	-	-
10	.813	14.84	Av	9.6	.2	24.64	-	-	46	-21.36
11	1.113	29.94	Pk	9.6	.3	39.84	56	-16.16	-	-
12	1.077	14.5	Av	9.6	.3	24.4	-	-	46	-21.6

Pk - Peak detector
 Av - Average detection

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_AU TO_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	.156	42.21	Pk	9.5	.1	51.81	65.67	-13.86	-	-
14	.156	26.84	Av	9.5	.1	36.44	-	-	55.67	-19.23
15	.228	33.74	Pk	9.5	.2	43.44	62.52	-19.08	-	-
16	.234	17.47	Av	9.5	.2	27.17	-	-	52.31	-25.14
17	.438	30.16	Pk	9.5	.2	39.86	57.1	-17.24	-	-
18	.435	15.56	Av	9.5	.2	25.26	-	-	47.16	-21.9
19	.666	30.96	Pk	9.6	.2	40.76	56	-15.24	-	-
20	.666	12.36	Av	9.6	.2	22.16	-	-	46	-23.84
21	1.89	32.54	Pk	9.6	.3	42.44	56	-13.56	-	-
22	1.902	15.18	Av	9.6	.3	25.08	-	-	46	-20.92
23	3.903	31.89	Pk	9.6	.3	41.79	56	-14.21	-	-
24	3.864	16.89	Av	9.6	.3	26.79	-	-	46	-19.21

Pk - Peak detector
 Av - Average detection

END OF TEST REPORT