



CERTIFICATION TEST REPORT

Report Number. : 4789841420-E1V2

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

Model : SM-T736B

FCC ID : A3LSMT736B

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

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

Date Of Issue:

2021-04-22

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ACCREDITED

Testing Laboratory

TL-637

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2021-04-14	Initial issue	Hyunsik Yun
V2	2021-04-22	Updated to address TCB's question	Hyunsik Yun

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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
MODEL NUMBER: SM-T736B
SERIAL NUMBER: R32R2008R7F (RADIATED)
DATE TESTED: 2021-03-16 ~ 2021-04-14;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15B	Pass

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

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

Approved & Released For
UL Korea, Ltd. By:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Hyunsik Yun
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

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

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

3. FACILITIES AND ACCREDITATION

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

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

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

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

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Radiated Disturbance, 30 MHz to 1 GHz	4.26 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.90 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 1, Clause 4.4.2 in IEC Guide 115:2007.

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.
This test report addresses the WWAN receiver mode.

5.2. TEST MODE

Mode	Description
GSM850	Communicating with Call simulator(CMW500)
WCDMA BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 12	Communicating with Call simulator(CMW500)
LTE BAND 13	Communicating with Call simulator(CMW500)
LTE BAND 26	Communicating with Call simulator(CMW500)
5G NR BAND n5	Communicating with Call simulator(E7515B)

5.3. WORST-CASE ORIENTATION AND MODE

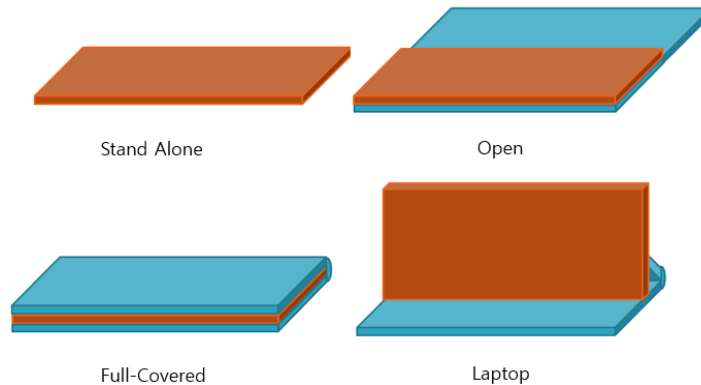
i. Worst Axis Condition

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.

Band	RSE			
	X	Y	Z	Laptop
GSM850	-	-	-	O
WCDMA B5	Stand Alone	-	-	-
LTE B12	-	Stand Alone	-	-
LTE B13	Full Covered	-	-	-
LTE B26	-	Stand Alone	-	-
NR B5	-	Stand Alone	-	-

ii. Foldable Condition

The Fundamental of the EUT was investigated in three foldable conditions(Open, Laptop, Full-Covered).



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. Therefore, only Mid channel was checked.

LTE Band 5

LTE Band 5 (Rx Frequency range: 869-894 MHz) is covered by LTE Band 26 (Rx Frequency range: 859-894 MHz) due to overlapping frequency range.

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.

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	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA200	R37R1XS0P35DK3	N/A
Data Cable	SAMSUNG	EP-DT725BBE	N/A	N/A

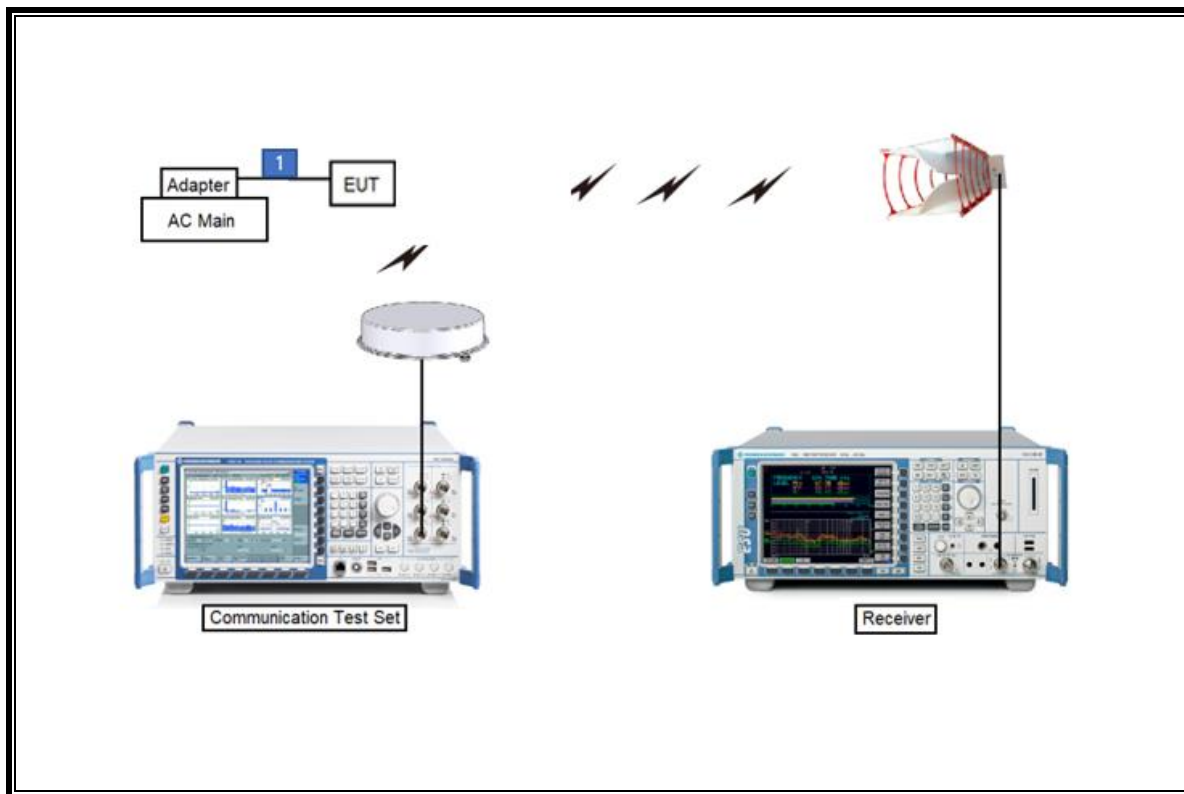
I/O CABLE

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.

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, Horn, 40 GHz	ETS	3116C	00166155	08-04-22
Preamplifier	ETS	3116C-PA	00168841	08-06-21
Antenna, Horn, 40 GHz	ETS	3116C	00168645	08-04-22
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	08-19-22
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	08-13-22
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	08-13-22
Antenna, Horn, 18 GHz	ETS	3115	00167211	07-27-22
Antenna, Horn, 18 GHz	ETS	3115	00161451	08-15-22
Antenna, Horn, 18 GHz	ETS	3117	00168724	07-27-22
Antenna, Horn, 18 GHz	ETS	3117	00168717	08-15-22
Communications Test Set	R&S	CMW500	115331	08-03-21
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-03-21
Preamplifier, 1000 MHz	Sonoma	310N	370599	08-06-21
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-03-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	08-03-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	08-04-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-03-21
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-03-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-03-21
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	08-05-21
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	08-05-21
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	08-05-21
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	08-05-21
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	08-05-21
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	08-05-21
Attenuator	PASTERNAK	PE7087-10	A009	08-05-21
Attenuator	PASTERNAK	PE7087-10	A001	08-03-21
Attenuator	PASTERNAK	PE7087-10	A008	08-03-21
Attenuator	PASTERNAK	PE7004-10	2	08-04-21
Attenuator	PASTERNAK	PE7395-10	A011	08-05-21
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

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:

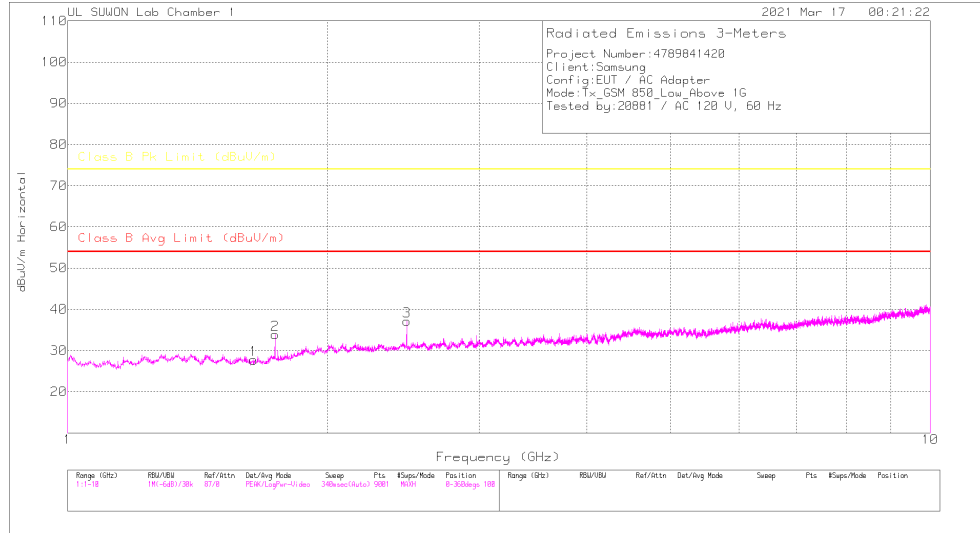
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

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

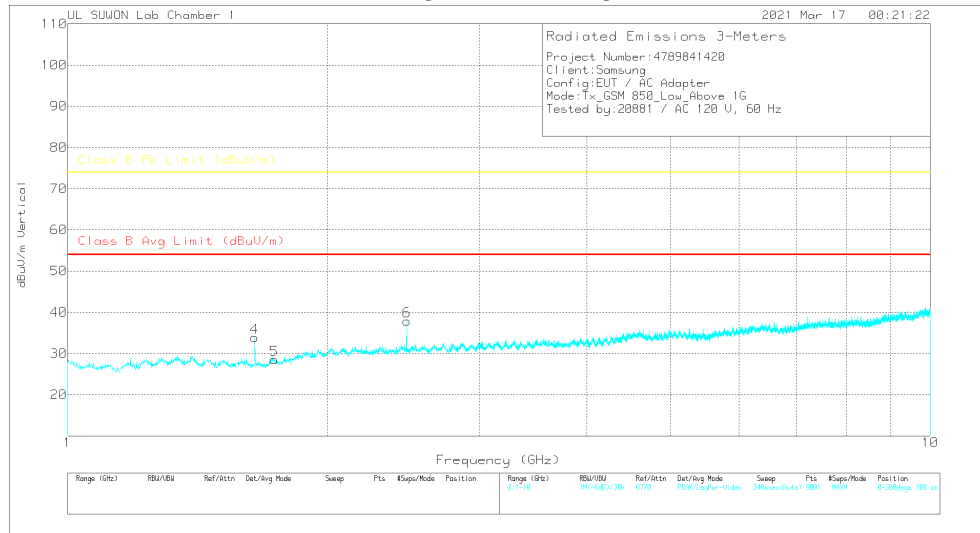
7.1. Above 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

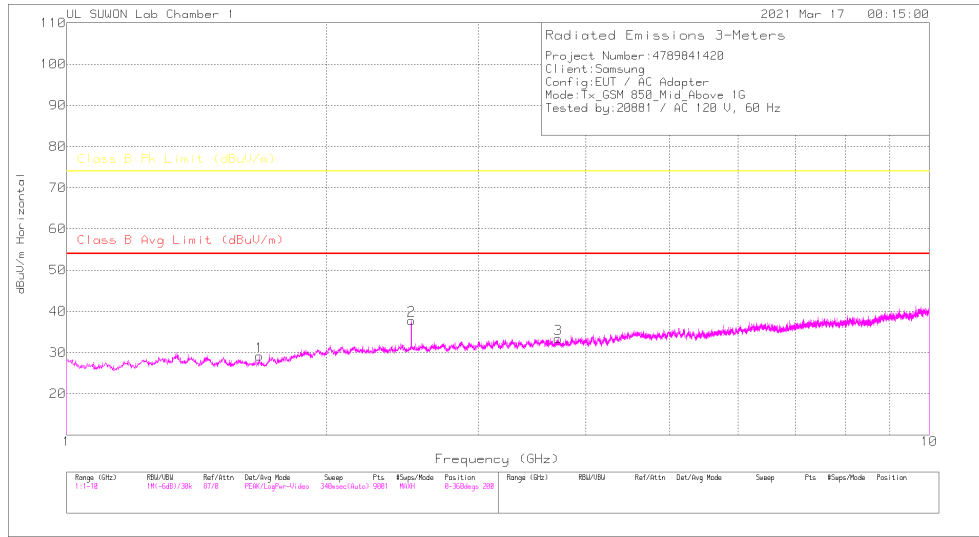
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.643	35.22	PK	28.4	-36.5	.6	27.72	-	-	74	-46.28	0-360	200	H
2	1.739	40.66	PK	28.9	-36.5	.8	33.86	-	-	74	-40.14	0-360	100	H
3	2.472	39.61	PK	31.9	-35.1	.7	37.11	-	-	74	-36.89	0-360	200	H
4	1.648	41.47	PK	28.4	-36.6	.6	33.87	-	-	74	-40.13	0-360	100	V
5	1.735	35.32	PK	28.9	-36.5	.8	28.52	-	-	74	-45.48	0-360	200	V
6	2.472	40.39	PK	31.9	-35.1	.7	37.89	-	-	74	-36.11	0-360	100	V

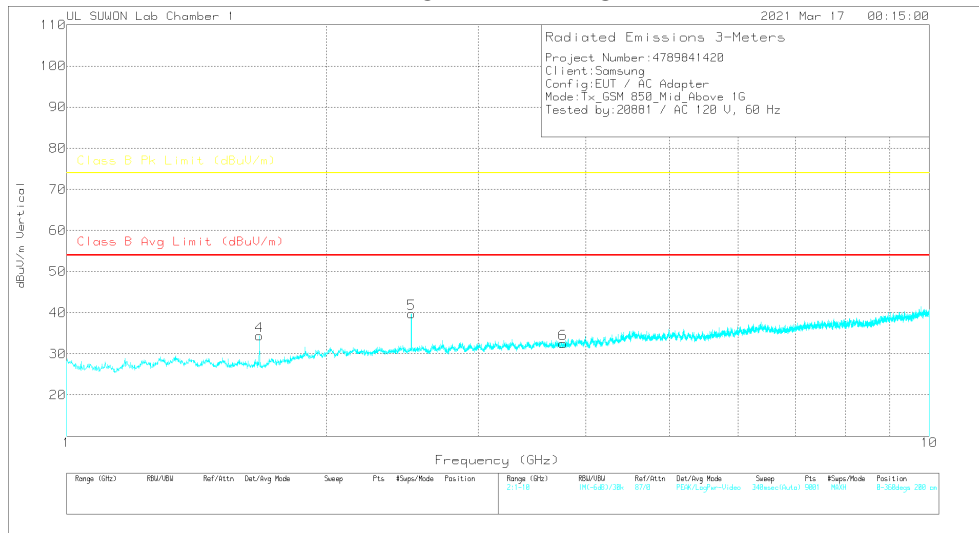
PK-Peak Detector

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

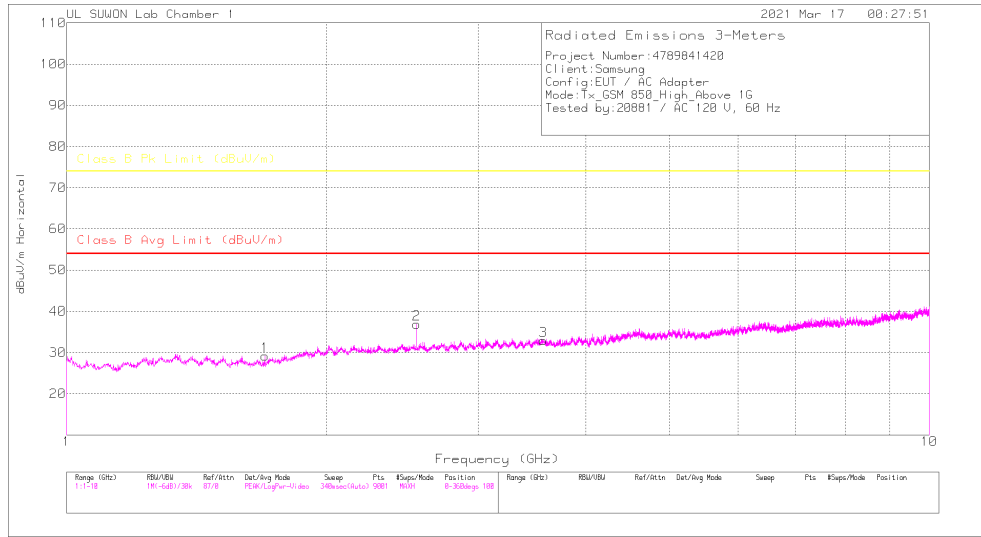
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
1	1.673	36.75	PK	28.5	-36.6	.5	29.15	-	-	74	-44.85	0-360	100	H
2	2.51	40.31	PK	32	-35	.5	37.81	-	-	74	-36.19	0-360	100	H
3	3.715	33.4	PK	33	-33.5	.5	33.4	-	-	74	-40.6	0-360	100	H
4	1.673	41.96	PK	28.5	-36.6	.5	34.36	-	-	74	-39.64	0-360	100	V
5	2.51	42.3	PK	32	-35	.5	39.8	-	-	74	-34.2	0-360	100	V
6	3.762	32.19	PK	33.1	-33.3	.5	32.49	-	-	74	-41.51	0-360	100	V

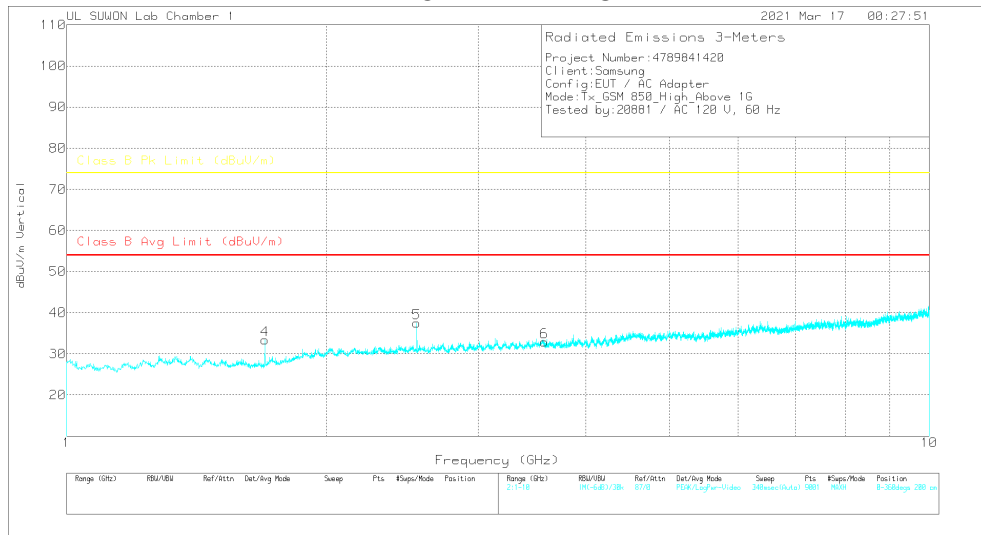
PK – Peak Detector

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

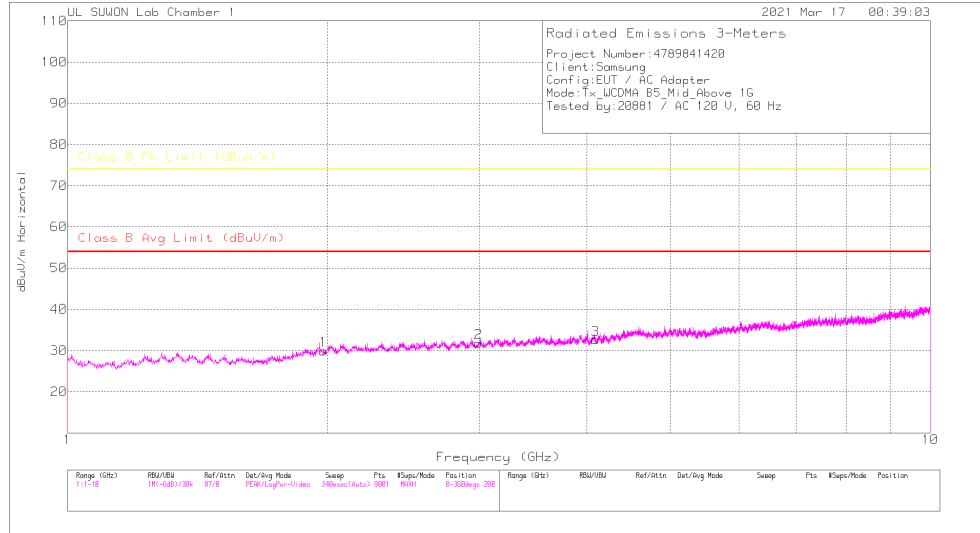
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1	1.697	36.42	PK	28.6	-36.5	.6	29.12	-	-	74	-44.88	0-360	200	H
2	2.546	38.97	PK	32	-34.8	.7	36.87	-	-	74	-37.13	0-360	200	H
3	3.57	32.94	PK	33	-33.5	.5	32.94	-	-	74	-41.06	0-360	200	H
4	1.697	40.66	PK	28.6	-36.5	.6	33.96	-	-	74	-40.64	0-360	100	V
5	2.546	39.56	PK	32	-34.8	.7	37.46	-	-	74	-36.54	0-360	100	V
6	3.578	32.84	PK	33	-33.5	.5	32.84	-	-	74	-41.16	0-360	100	V

PK – Peak Detector

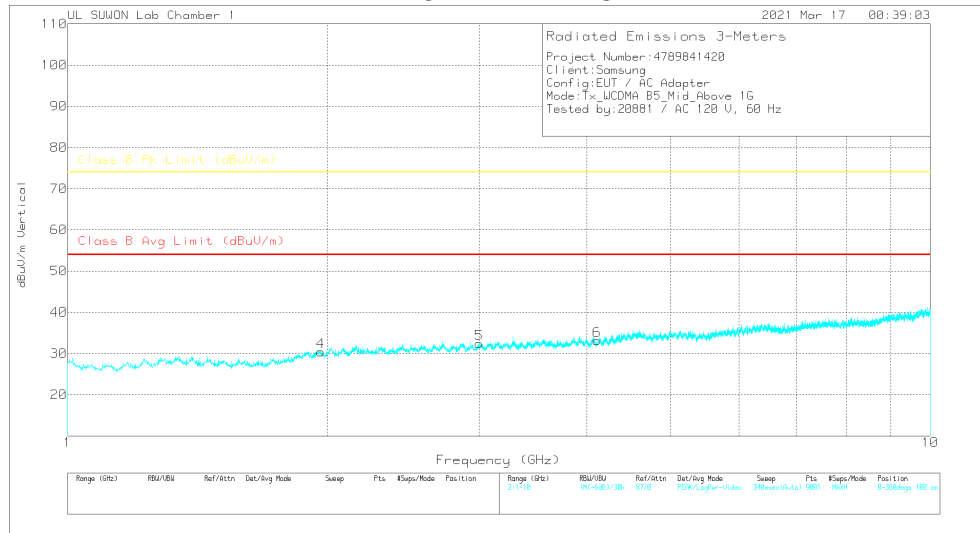
7.2. Above 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

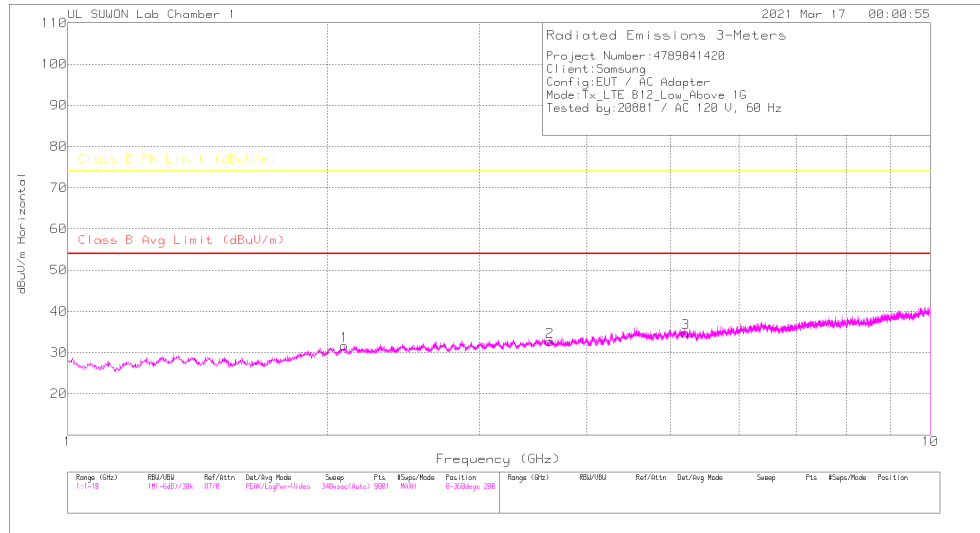
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avi(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.978	34.16	PK	31.3	-36	.5	29.96	-	-	74	-44.04	0-360	200	H
2	2.997	33.03	PK	32.4	-34.3	.7	31.83	-	-	74	-42.17	0-360	100	H
3	4.094	31.49	PK	33.5	-32.7	.4	32.69	-	-	74	-41.31	0-360	100	H
4	1.965	34.64	PK	31.2	-36	.5	30.34	-	-	74	-43.66	0-360	200	V
5	2.999	33.45	PK	32.4	-34.2	.7	32.35	-	-	74	-41.65	0-360	200	V
6	4.109	31.96	PK	33.5	-32.7	.4	33.16	-	-	74	-40.84	0-360	200	V

PK – Peak Detector

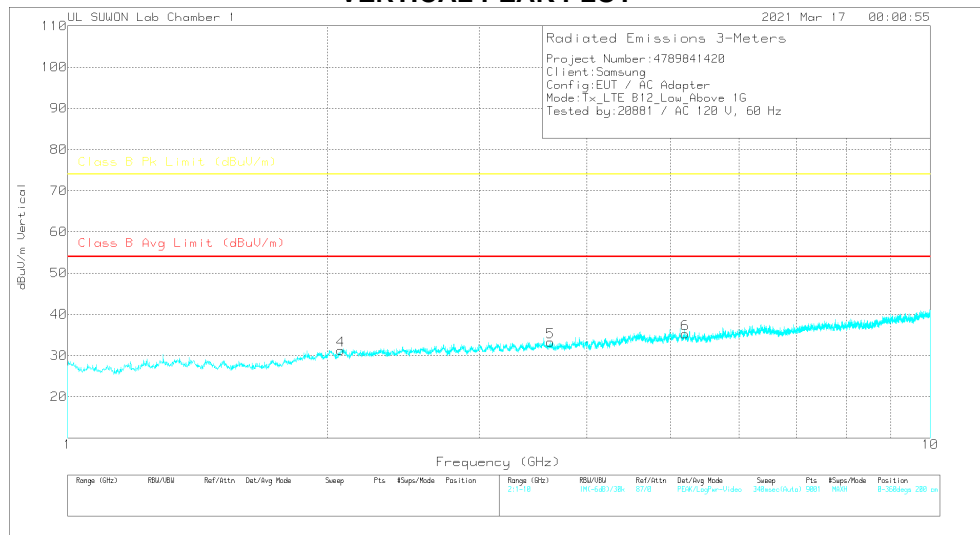
7.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(730.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

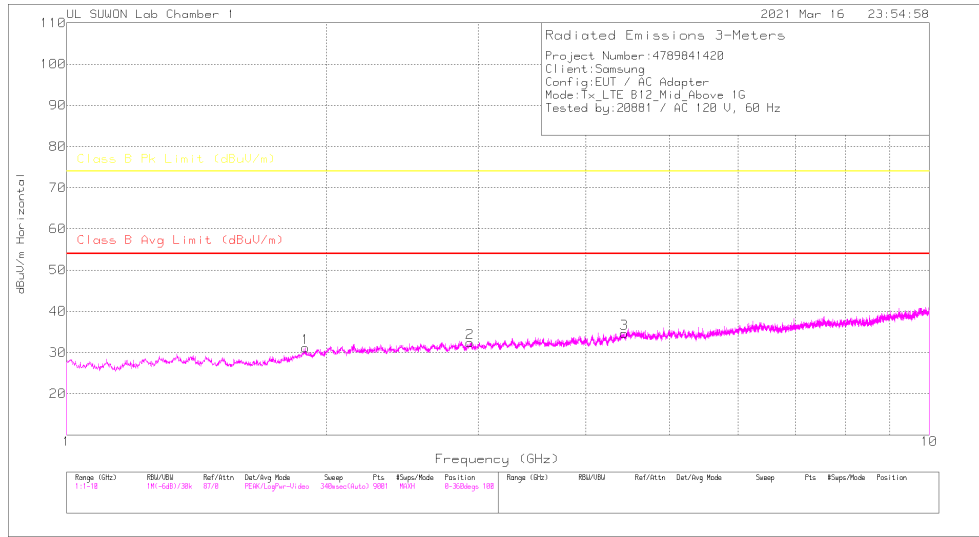
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.094	35.39	PK		-35.8	.5	31.69	-	-	74	-42.31	0-360	100	H
2	3.623	32.48	PK		-33.4	.5	32.68	-	-	74	-41.32	0-360	100	H
3	5.207	31.7	PK		-31.7	.4	34.8	-	-	74	-39.2	0-360	200	H
4	2.072	34.82	PK		-35.6	.5	31.32	-	-	74	-42.68	0-360	100	V
5	3.628	33.03	PK		-33.4	.5	33.23	-	-	74	-40.77	0-360	100	V
6	5.202	32.06	PK		-31.6	.4	35.26	-	-	74	-38.74	0-360	200	V

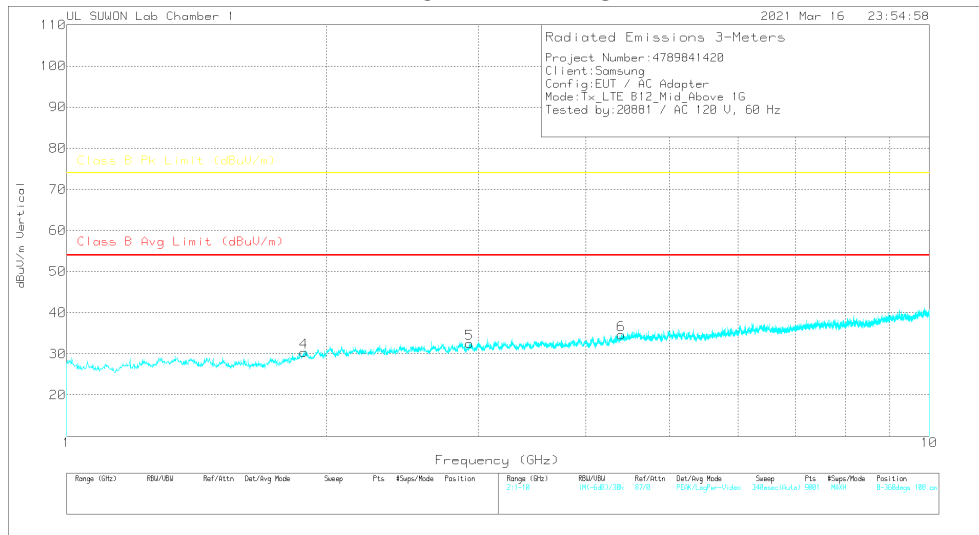
PK – Peak Detector

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

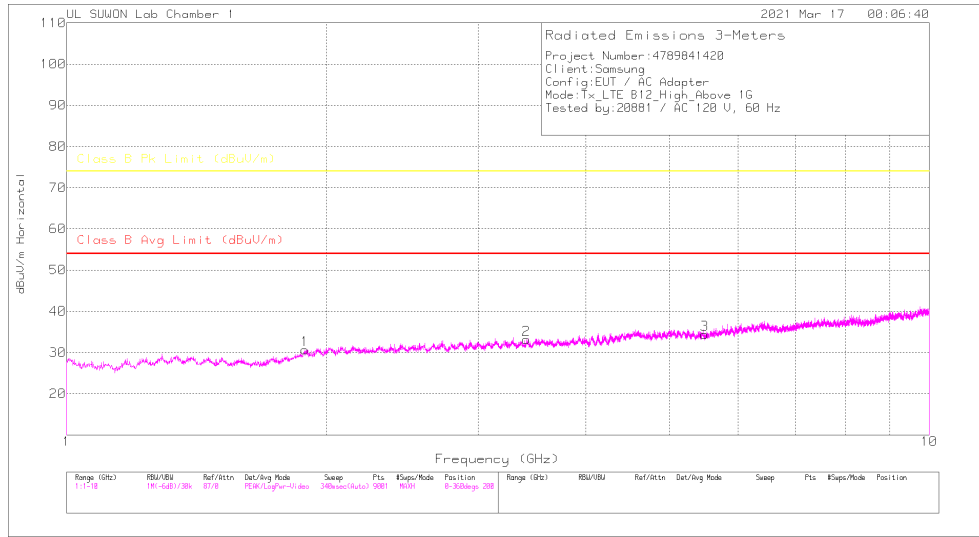
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBu)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBu/m)	Class B Avg Limit (dBu/m)	Avr(CISPR)Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.892	36.04	PK		-36.2	.7	31.14	-	-	74	-42.86	0-360	200	H
2	2.936	33.66	PK		-34.2	.6	32.96	-	-	74	-41.64	0-360	100	H
3	4.429	32.48	PK		-32.4	.4	34.58	-	-	74	-39.42	0-360	100	H
4	1.883	35.38	PK		-36.2	.7	30.38	-	-	74	-43.62	0-360	100	V
5	2.929	33.76	PK		-34.2	.6	32.46	-	-	74	-41.54	0-360	100	V
6	4.396	32.74	PK		-32.5	.4	34.64	-	-	74	-39.36	0-360	100	V

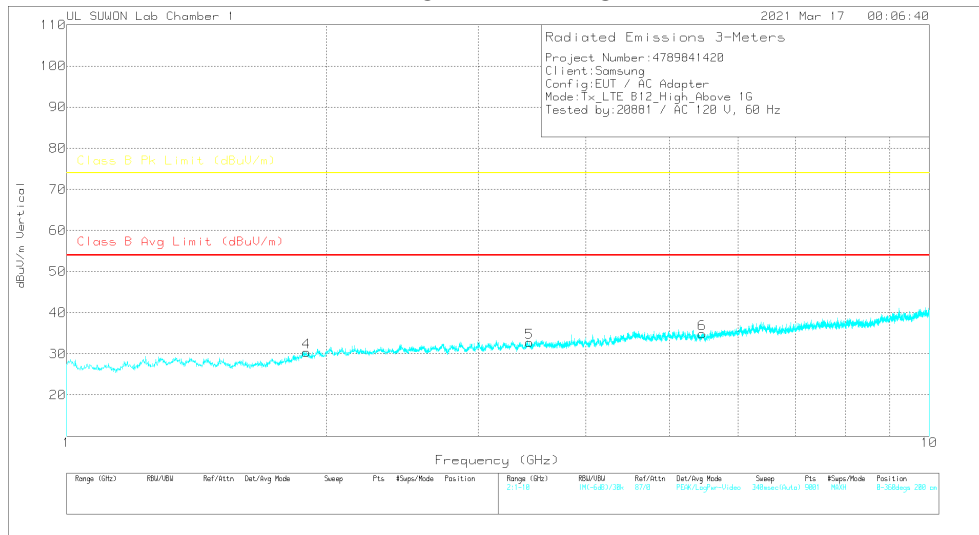
PK – Peak Detector

HIGH CHANNEL(744.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

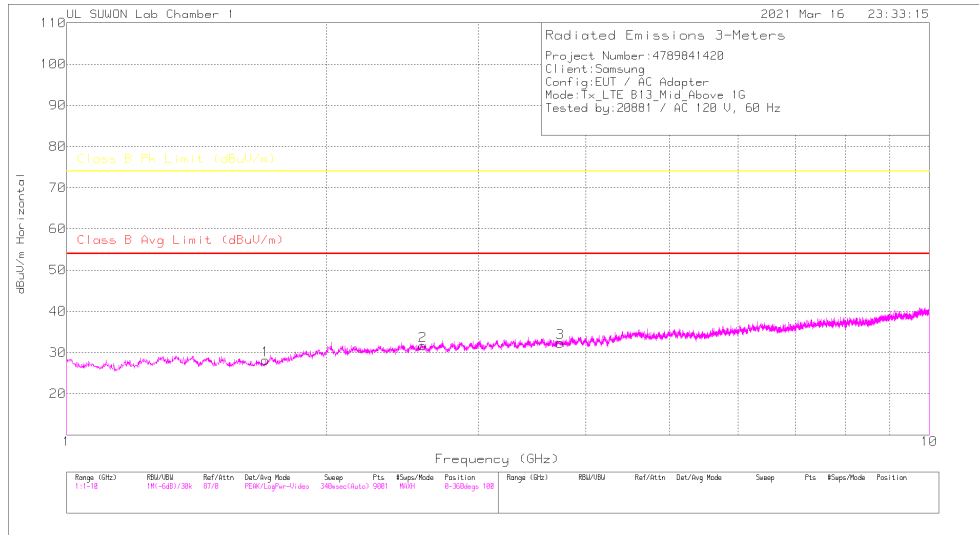
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Avg(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.888	35.59	PK	30.5	-36.2	.7	30.59	-	-	74	-43.41	0-360	100	H
2	3.412	33.46	PK	32.6	-33.6	.7	33.16	-	-	74	-40.84	0-360	200	H
3	5.489	30.9	PK	34.6	-31.5	.4	34.4	-	-	74	-39.6	0-360	200	H
4	1.897	35.41	PK	30.6	-36.3	.7	30.41	-	-	74	-43.59	0-360	200	V
5	3.441	33.2	PK	32.7	-33.6	.5	32.8	-	-	74	-41.2	0-360	100	V
6	5.455	31.34	PK	34.5	-31.4	.4	34.84	-	-	74	-39.16	0-360	100	V

PK – Peak Detector

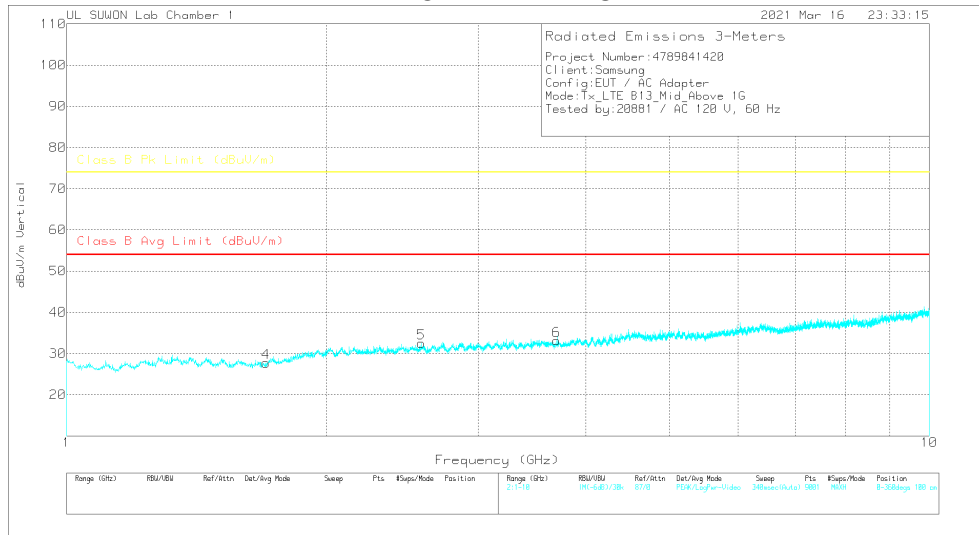
7.4. Above 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

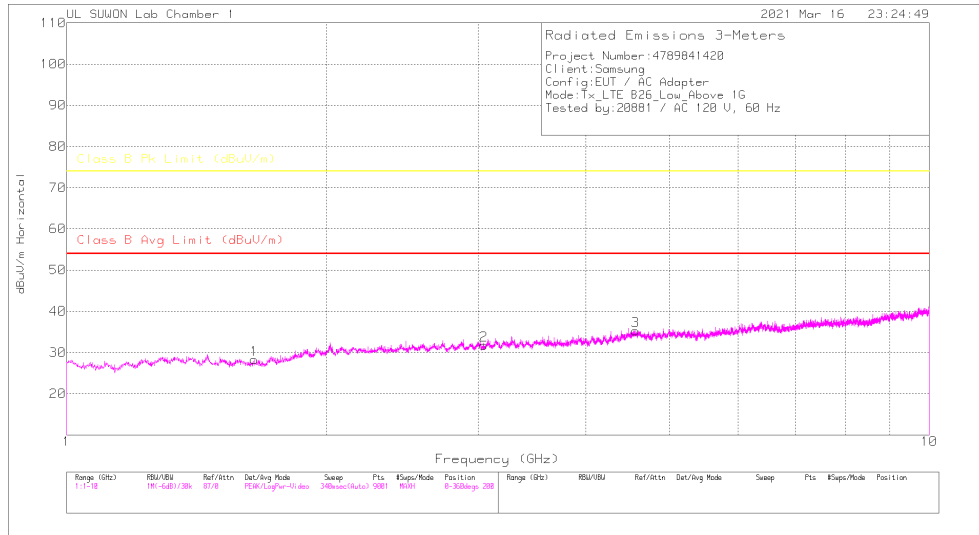
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.7	35.4	PK		-36.5	.6	28.1	-	-	74	-45.9	0-360	100	H
2	2.588	33.89	PK		-35	.6	31.59	-	-	74	-42.41	0-360	200	H
3	3.732	32.23	PK		-33.4	.5	32.33	-	-	74	-41.67	0-360	100	H
4	1.703	35.02	PK		-36.6	.7	27.72	-	-	74	-46.28	0-360	100	V
5	2.576	34.58	PK		-34.9	.7	32.48	-	-	74	-41.52	0-360	200	V
6	3.698	33	PK		-33.4	.5	33.1	-	-	74	-40.9	0-360	100	V

PK – Peak Detector

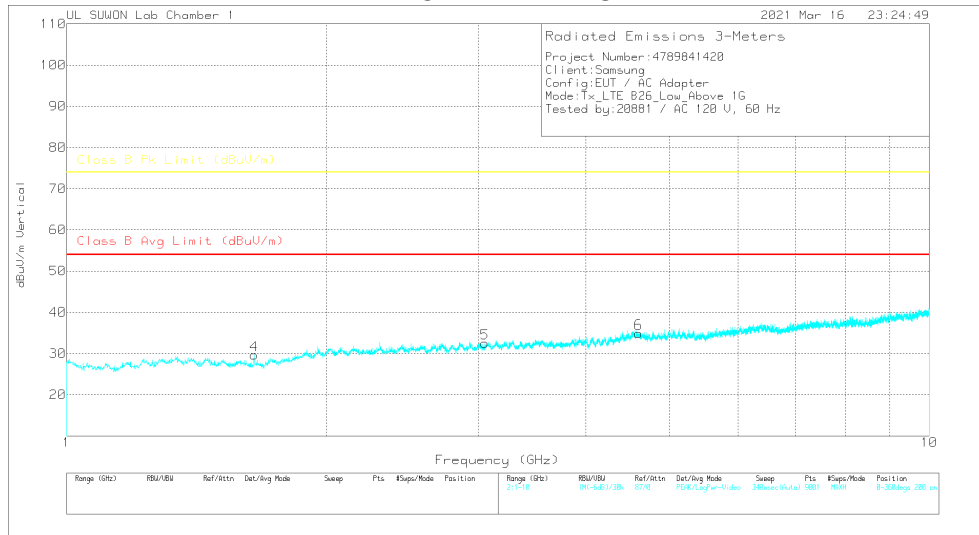
7.5. Above 1 GHz in the LTE Band 26

LOW CHANNEL(860.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

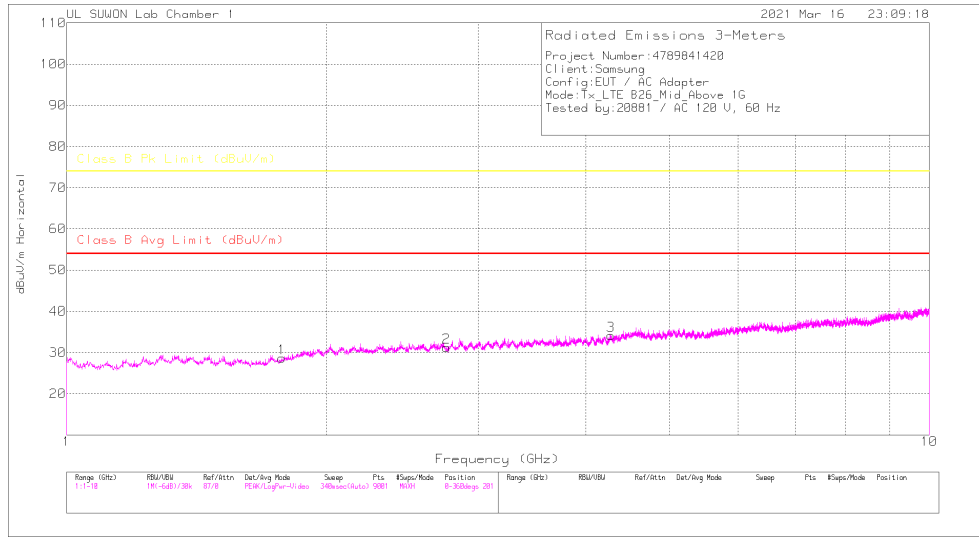
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.649	35.78	PK		-36.5	.6	28.28	-	-	74	-45.72	0-360	100	H
2	3.046	32.67	PK		-34	.6	31.77	-	-	74	-42.23	0-360	200	H
3	4.563	32.94	PK		-32.3	.4	35.24	-	-	74	-38.76	0-360	100	H
4	1.649	37.15	PK		-36.5	.6	29.65	-	-	74	-44.35	0-360	200	V
5	3.055	33.38	PK		-34	.6	32.48	-	-	74	-41.52	0-360	100	V
6	4.603	32.44	PK		-32.1	.4	34.94	-	-	74	-39.06	0-360	100	V

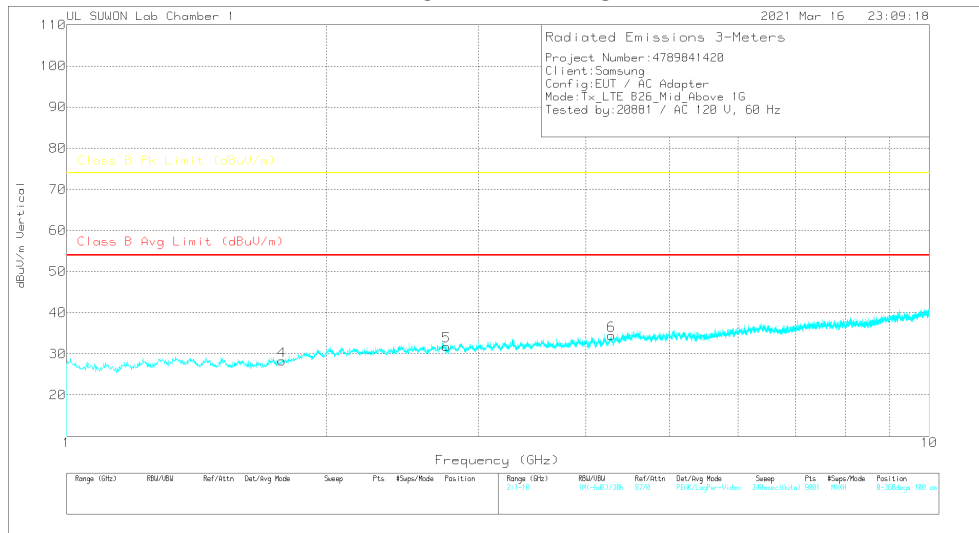
PK – Peak Detector

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

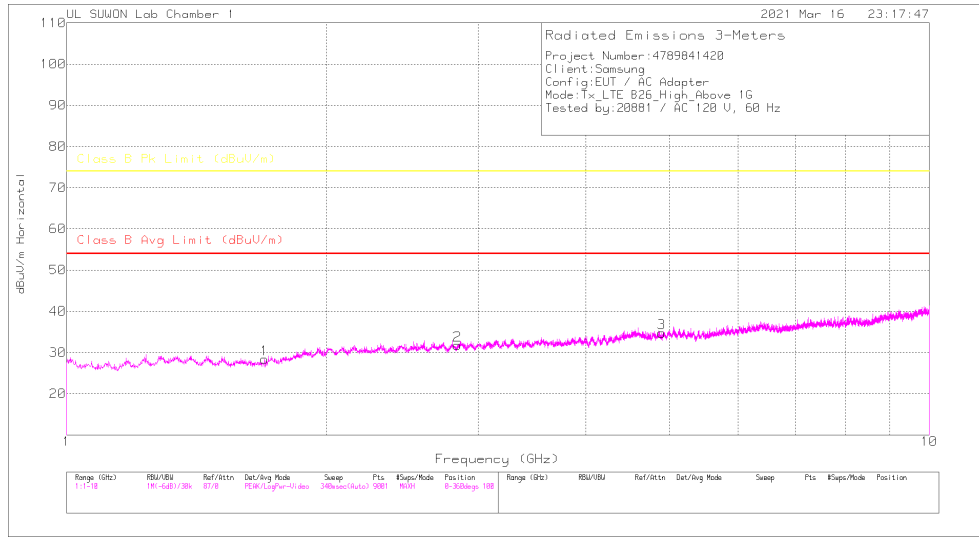
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avi(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.776	35.2	PK	29.3	-36.4	.6	28.7	-	-	74	-45.3	0-360	201	H
2	2.757	33.12	PK	32.2	-34.5	.5	31.32	-	-	74	-42.68	0-360	100	H
3	4.278	32.6	PK	33.7	-32.6	.4	34.1	-	-	74	-39.9	0-360	201	H
4	1.776	34.77	PK	29.3	-36.4	.6	28.27	-	-	74	-45.73	0-360	201	V
5	2.757	33.63	PK	32.2	-34.5	.5	31.83	-	-	74	-42.17	0-360	201	V
6	4.283	32.88	PK	33.8	-32.6	.4	34.48	-	-	74	-39.52	0-360	100	V

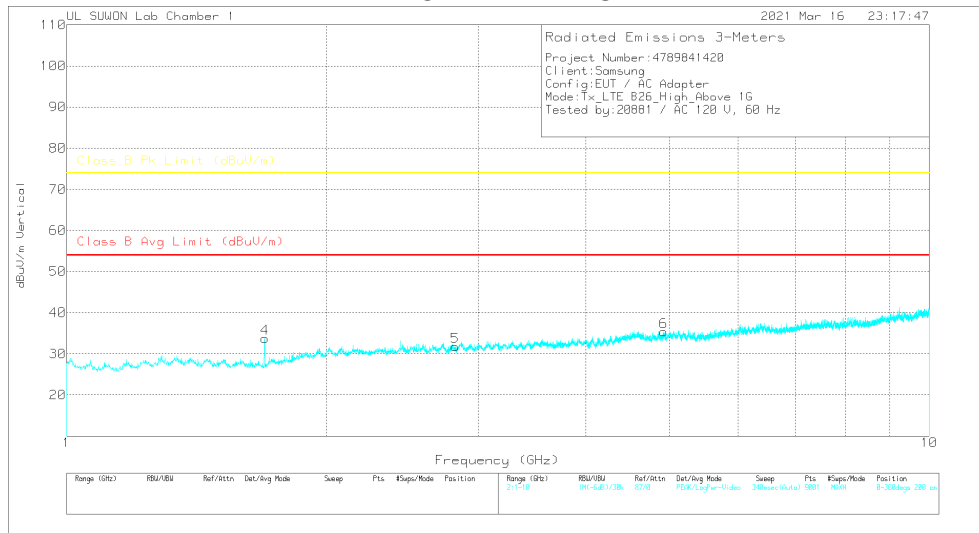
PK – Peak Detector

HIGH CHANNEL(892.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

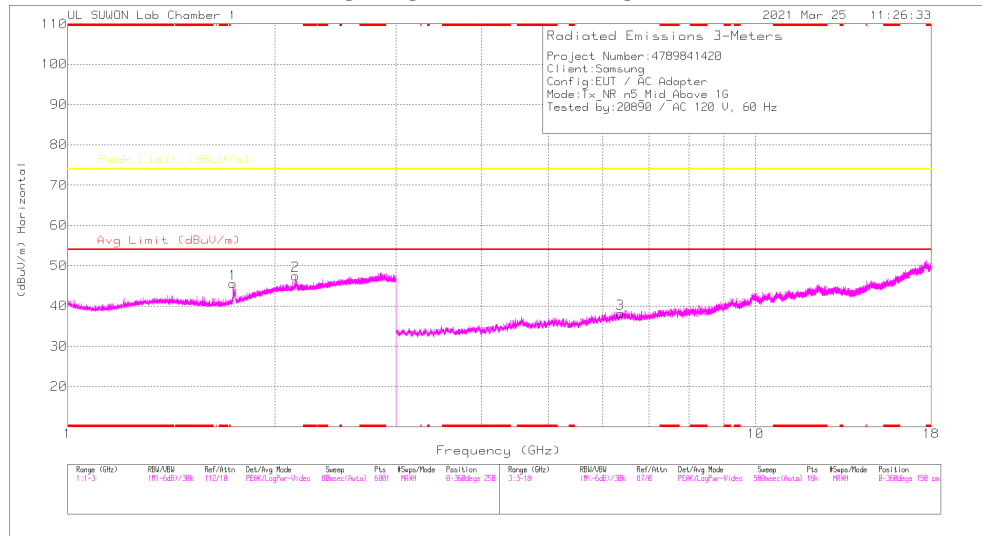
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.696	35.71	PK	28.6	-36.5	.6	28.41	-	-	74	-45.59	0-360	100	H
2	2.838	32.83	PK	32.3	-34.2	.8	31.73	-	-	74	-42.27	0-360	100	H
3	4.898	32.1	PK	34.1	-31.9	.4	34.7	-	-	74	-39.3	0-360	200	H
4	1.697	41.02	PK	28.6	-36.5	.6	33.72	-	-	74	-40.28	0-360	100	V
5	2.822	33.23	PK	32.2	-34.4	.7	31.73	-	-	74	-42.27	0-360	200	V
6	4.92	32.8	PK	34.1	-31.9	.4	35.4	-	-	74	-38.6	0-360	200	V

PK – Peak Detector

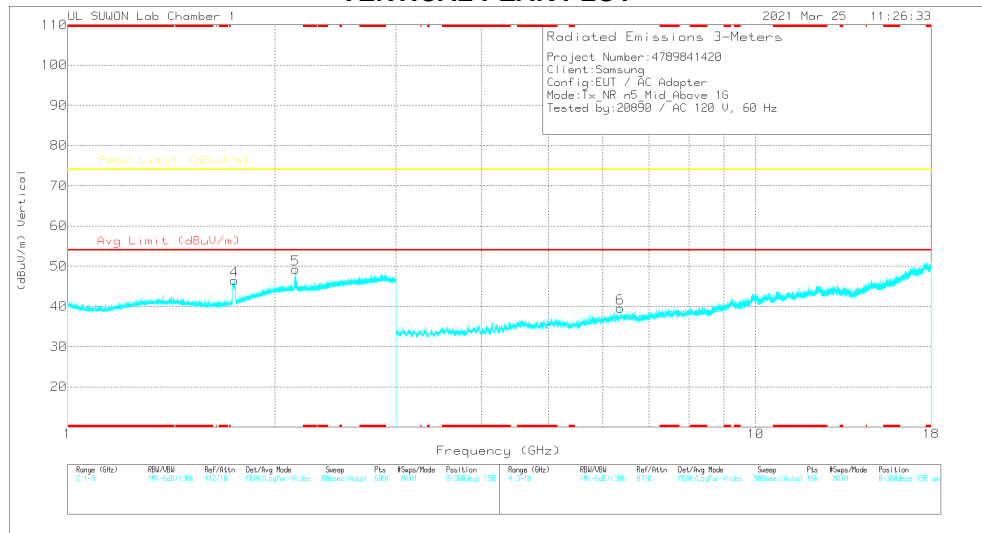
7.6. Above 1 GHz in the 5G NR Band 5

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.73933	42.89	PK	28.9	-26.9	.7	45.59	-	-	74	-28.41	0-360	250	H
2	2.145	41.13	PK	31.6	-25.9	.7	47.53	-	-	74	-26.47	0-360	150	H
4	1.747	43.49	PK	29	-26.8	.7	46.39	-	-	74	-27.61	0-360	150	V
5	2.14467	42.81	PK	31.6	-25.9	.7	49.21	-	-	74	-24.79	0-360	150	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	6.35979	31.15	PK	35.5	-29	.5	38.15	-	-	74	-35.85	0-360	250	H
6	6.35979	32.51	PK	35.5	-29	.5	39.51	-	-	74	-34.49	0-360	150	V

PK – Peak Detector

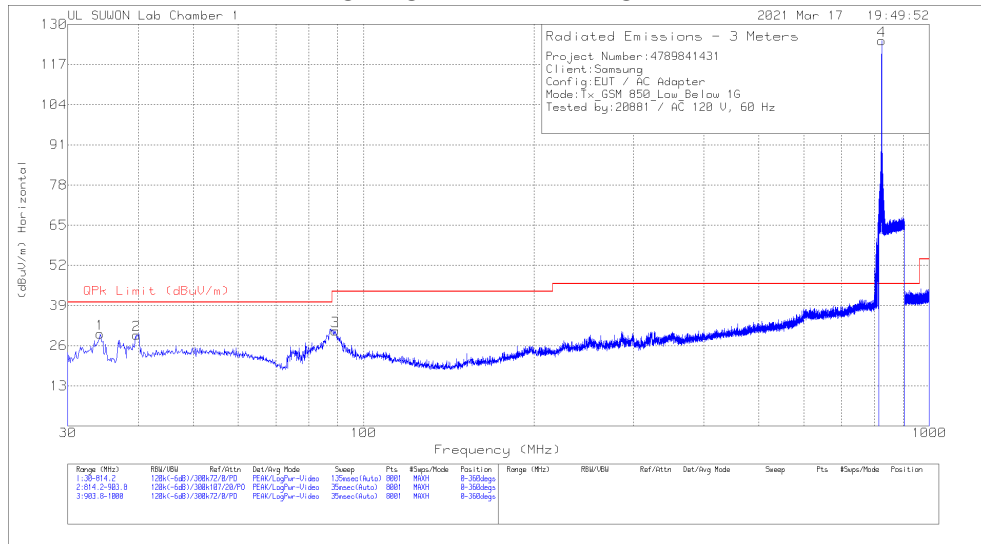
Note1: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

Note2: The signal of marker 4 is the LTE signal of the EN-DC combination.

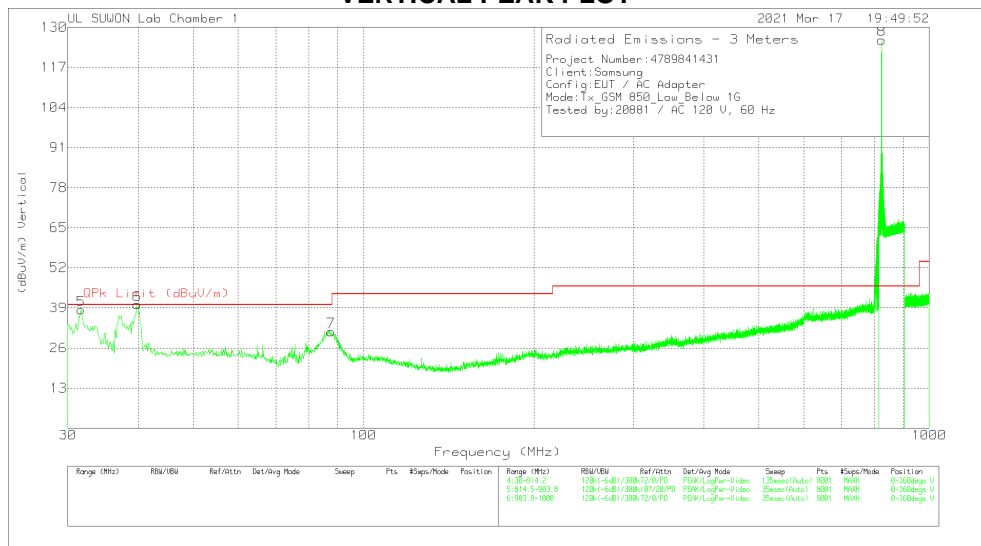
7.7. Below 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	34.2151	11.83	Pk	16.3	1.7	29.83	40	-10.17	0-360	300	H
2	39.7045	9.18	Pk	18.6	1.7	29.48	40	-10.52	0-360	200	H
3	89.1091	12.75	Pk	15.5	2.5	30.75	43.52	-12.77	0-360	200	H
4	824.1568	89.97	Pk	27.1	7.6	124.67	46.02	78.65	0-360	100	H
5	31.6664	21.38	PK	15.6	1.4	38.38	40	-1.62	0-360	100	V
6	39.8025	19.52	Pk	18.6	1.9	40.02	40	.02	0-360	100	V
7	87.6387	13.65	Pk	15.1	2.5	31.25	40	-8.75	0-360	100	V
8	824.2341	91.3	Pk	27.1	7.5	125.9	46.02	79.88	0-360	100	V

Pk - Peak detector

Radiated Emissions

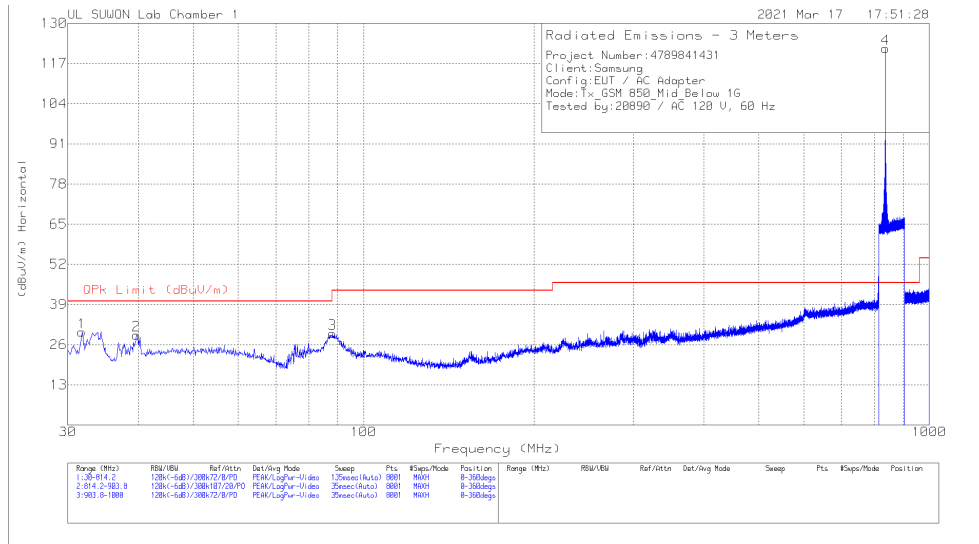
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
31.6664	10.72	Qp	15.6	1.4	27.72	40	-12.28	74	100	V
39.8025	10.94	Qp	18.6	1.9	31.44	40	-8.56	52	103	V

Qp - Quasi-Peak detector

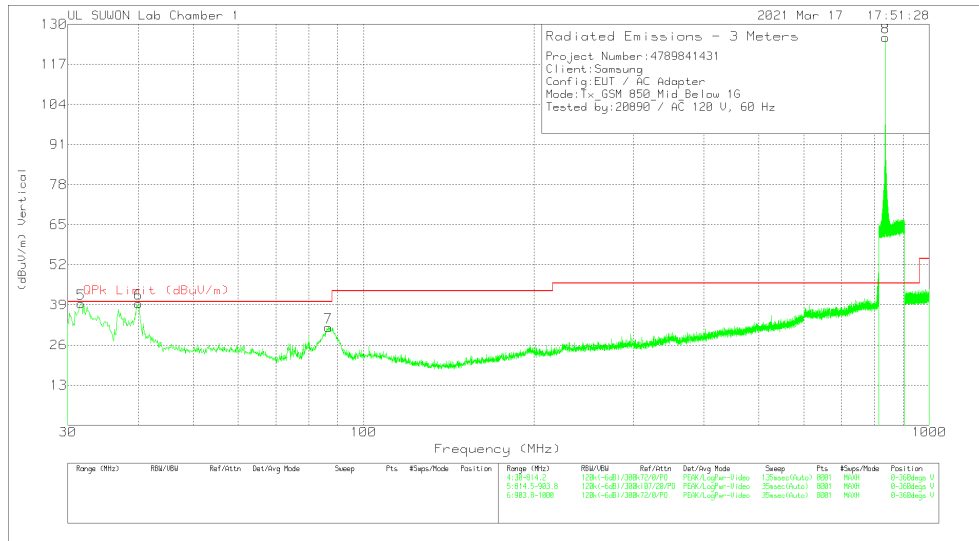
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.7645	12.75	Pk	15.6	1.7	30.05	40	-9.95	0-360	200	H
2	39.7045	8.81	Pk	18.6	1.7	29.11	40	-10.89	0-360	300	H
3	88.1288	11.99	Pk	15.2	2.4	29.59	43.52	-13.93	0-360	200	H
4	836.6	87.11	Pk	27.1	7.6	121.81	46.02	75.79	0-360	100	H
5	31.6664	22.43	Pk	15.6	1.4	39.43	40	-.57	0-360	100	V
6	39.9986	19.06	Pk	18.7	1.7	39.46	40	-.54	0-360	100	V
7	86.6585	14.56	Pk	14.7	2.5	31.76	40	-8.24	0-360	100	V
8	836.5358	91.03	Pk	27.1	7.6	125.73	46.02	79.71	0-360	200	V

Pk - Peak detector

Radiated Emissions

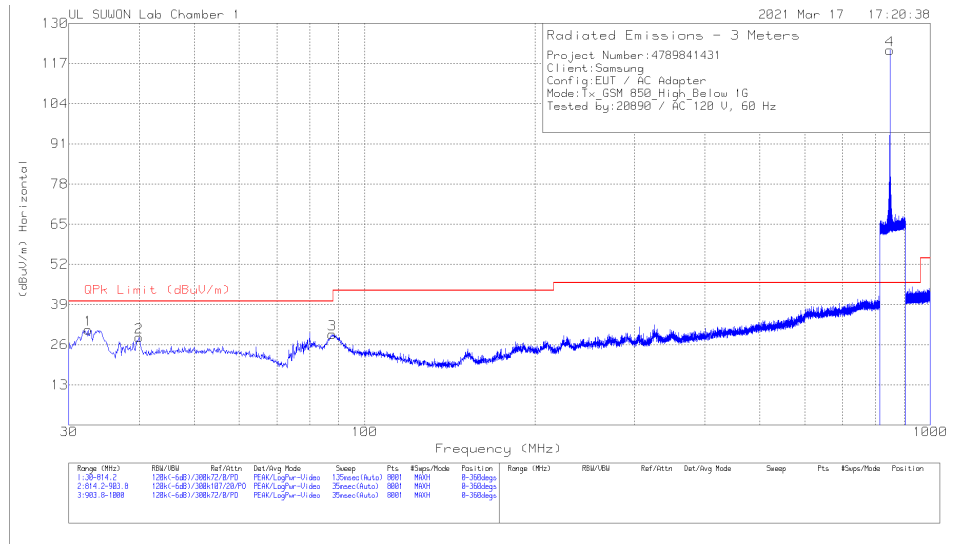
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
31.6664	17.58	Qp	15.6	1.4	34.58	40	-5.42	346	102	V
39.9986	10.9	Qp	18.7	1.7	31.3	40	-8.7	205	154	V

Qp - Quasi-Peak detector

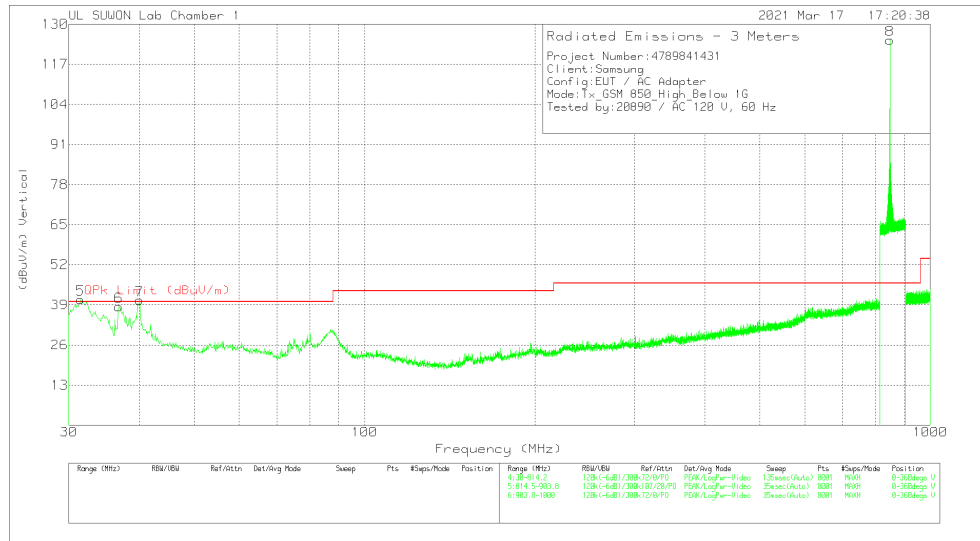
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.4506	13.53	Pk	15.7	1.6	30.83	40	-9.17	0-360	200	H
2	39.9005	8.05	Pk	18.7	1.6	28.35	40	-11.65	0-360	200	H
3	87.6387	11.73	Pk	15.1	2.5	29.33	40	-10.67	0-360	300	H
4	848.7184	86.17	Pk	27.4	7.7	121.27	46.02	75.25	0-360	100	H
5	31.4704	23.57	Pk	15.7	1.5	40.77	40	.77	0-360	100	V
6	36.7637	19.47	Pk	17.4	1.6	38.47	40	-1.53	0-360	100	V
7	39.9986	20.15	Pk	18.7	1.7	40.55	40	.55	0-360	100	V
8	848.8262	89.91	Pk	27.4	7.6	124.91	46.02	78.89	0-360	200	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
31.4704	18.86	Qp	15.7	1.5	36.06	40	-3.94	0	100	V
36.7637	13.34	Qp	17.4	1.6	32.34	40	-7.66	218	100	V
39.9986	11.9	Qp	18.7	1.7	32.3	40	-7.7	195	115	V

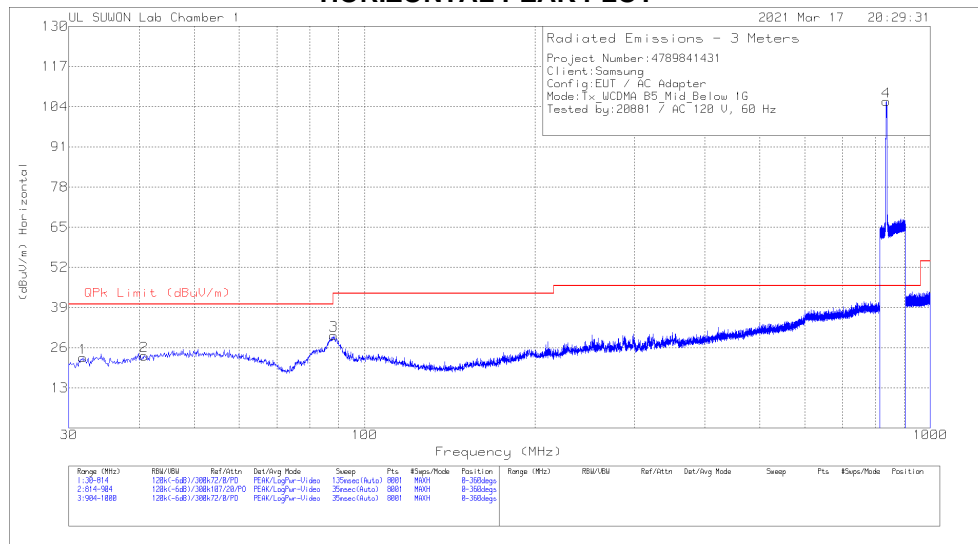
Qp - Quasi-Peak detector

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

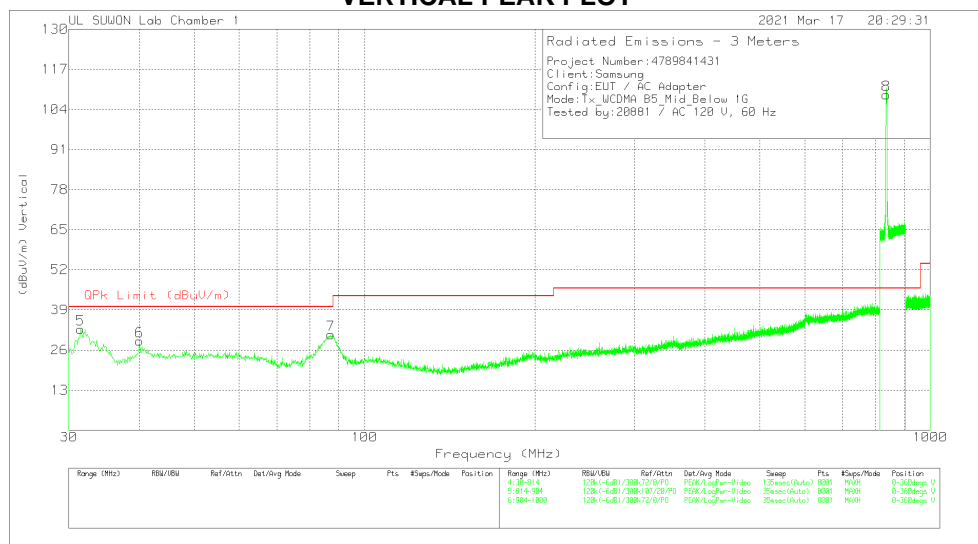
7.8. Below 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.764	5.46	Pk	15.6	1.7	22.76	40	-17.24	0-360	200	H
2	40.78	2.77	Pk	18.9	1.7	23.37	40	-16.63	0-360	100	H
3	88.212	12.27	Pk	15.3	2.4	29.97	43.52	-13.55	0-360	200	H
4	836.4438	70.98	Pk	27.1	7.6	105.68	46.02	59.66	0-360	100	H
5	31.47	15.56	Pk	15.7	1.5	32.76	40	-7.24	0-360	100	V
6	39.996	8.52	Pk	18.7	1.7	28.92	40	-11.08	0-360	100	V
7	87.232	13.6	Pk	14.9	2.5	31	40	-9	0-360	100	V
8	836.4213	74.04	Pk	27.1	7.6	108.74	46.02	62.72	0-360	200	V

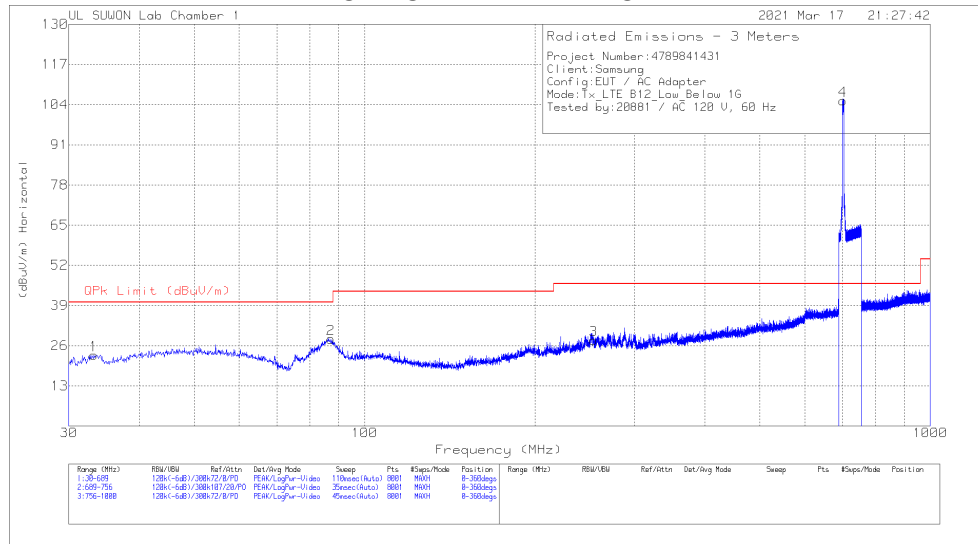
Pk - Peak detector

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

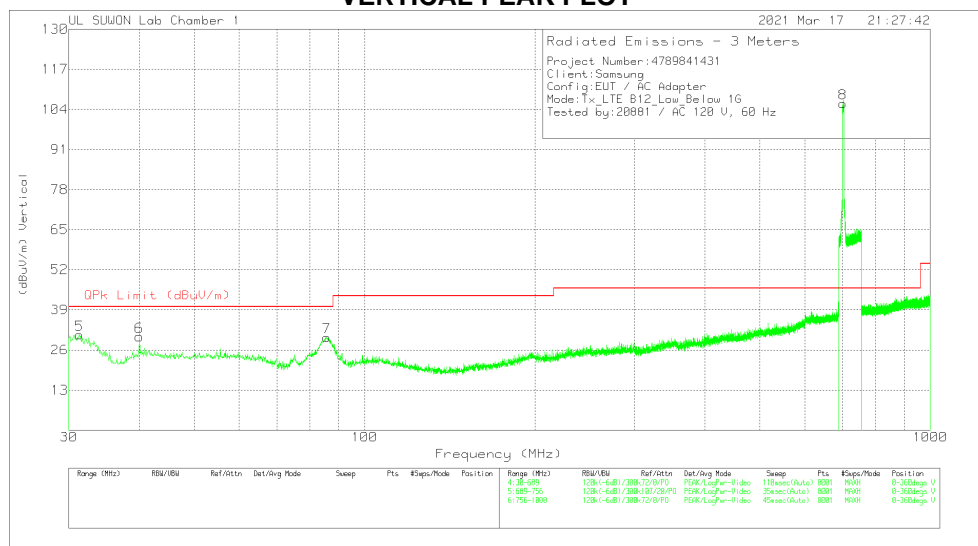
7.9. Below 1 GHz in the LTE Band 12

LOW CHANNEL(730.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

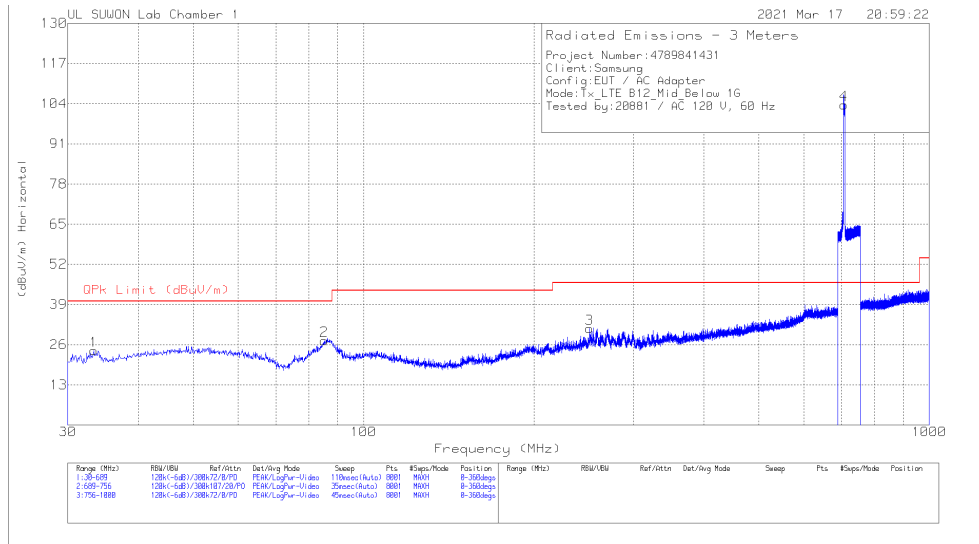
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.2126	5.46	Pk	15.9	1.6	22.96	40	-17.04	0-360	200	H
2	87.2506	10.77	Pk	14.9	2.5	28.17	40	-11.83	0-360	200	H
3	254.1424	5.13	Pk	18.5	4.2	27.83	46.02	-18.19	0-360	100	H
4	701.395	72.66	Pk	25.6	7	105.26	46.02	59.24	0-360	100	H
5	31.318	13.74	Pk	15.7	1.5	30.94	40	-9.06	0-360	100	V
6	39.9674	9.93	Pk	18.7	1.7	30.33	40	-9.67	0-360	100	V
7	85.7679	13.25	Pk	14.4	2.5	30.15	40	-9.85	0-360	100	V
8	701.4536	73.35	Pk	25.6	7	105.95	46.02	59.93	0-360	100	V

Pk - Peak detector

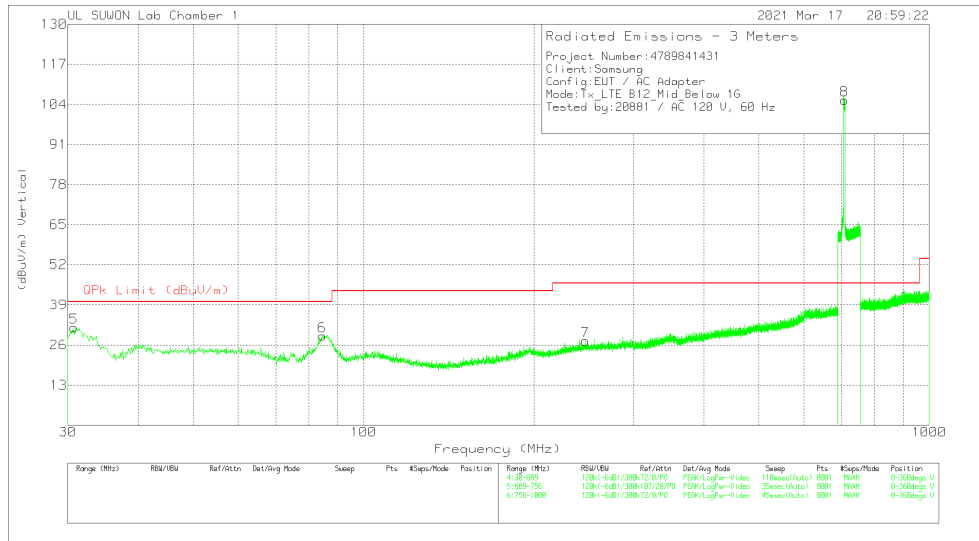
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

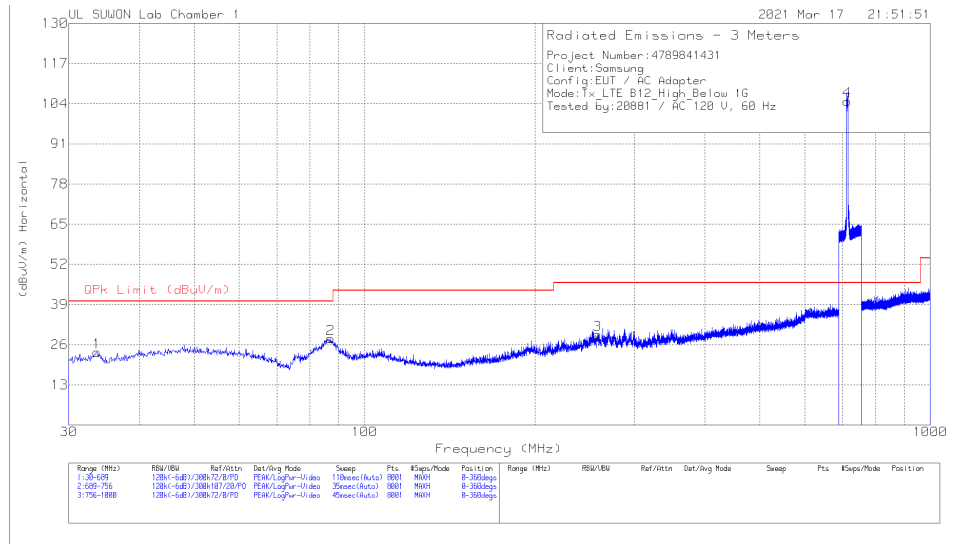
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.3774	6.49	Pk	16	1.6	24.09	40	-15.91	0-360	300	H
2	85.1913	10.78	Pk	14.1	2.4	27.28	40	-12.72	0-360	200	H
3	251.0121	8.53	PK	18.5	4.2	31.23	46.02	-14.79	0-360	100	H
4	707.1486	71.01	Pk	25.6	7	103.61	46.02	57.59	0-360	100	H
5	30.7414	14.39	Pk	15.8	1.5	31.69	40	-8.31	0-360	100	V
6	84.4499	12.68	Pk	13.8	2.4	28.88	40	-11.12	0-360	100	V
7	246.7286	4.75	Pk	18.4	4.2	27.35	46.02	-18.67	0-360	300	V
8	708.2876	72.59	PK	25.7	7.1	105.39	46.02	59.37	0-360	200	V

Pk - Peak detector

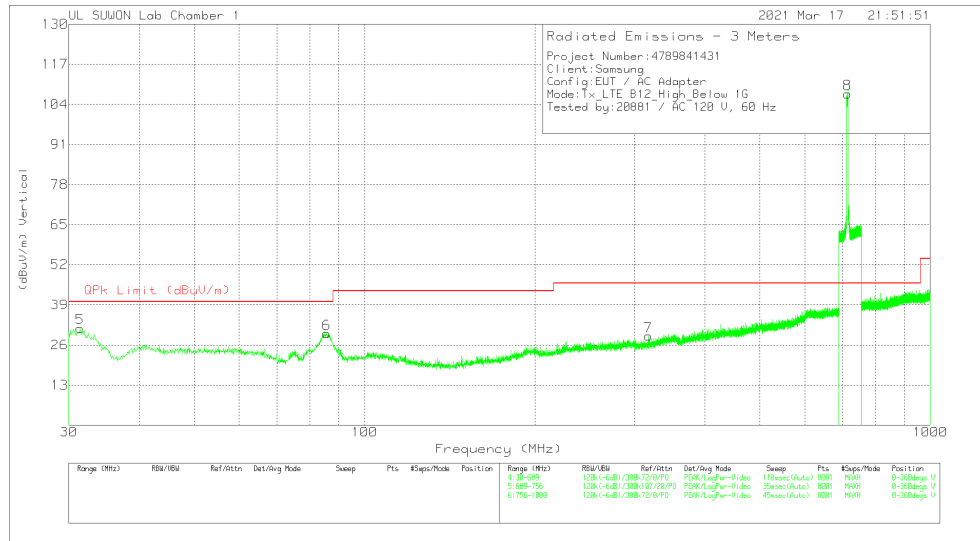
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(744.5 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	33.6245	5.94	Pk	16	1.6	23.54	40	-16.46	0-360	400	H
2	87.0859	10.49	Pk	14.8	2.6	27.89	40	-12.11	0-360	200	H
3	258.0964	6.5	PK	18.5	4.2	29.2	46.02	-16.82	0-360	100	H
4	713.5723	71.97	Pk	25.7	7.1	104.77	46.02	58.75	0-360	100	H
5	31.4004	14.18	Pk	15.7	1.6	31.48	40	-8.52	0-360	100	V
6	85.6855	12.91	Pk	14.3	2.5	29.71	40	-10.29	0-360	100	V
7	317.4064	4.59	Pk	19.5	4.8	28.89	46.02	-17.13	0-360	100	V
8	714.2925	74.72	PK	25.7	7	107.42	46.02	61.4	0-360	100	V

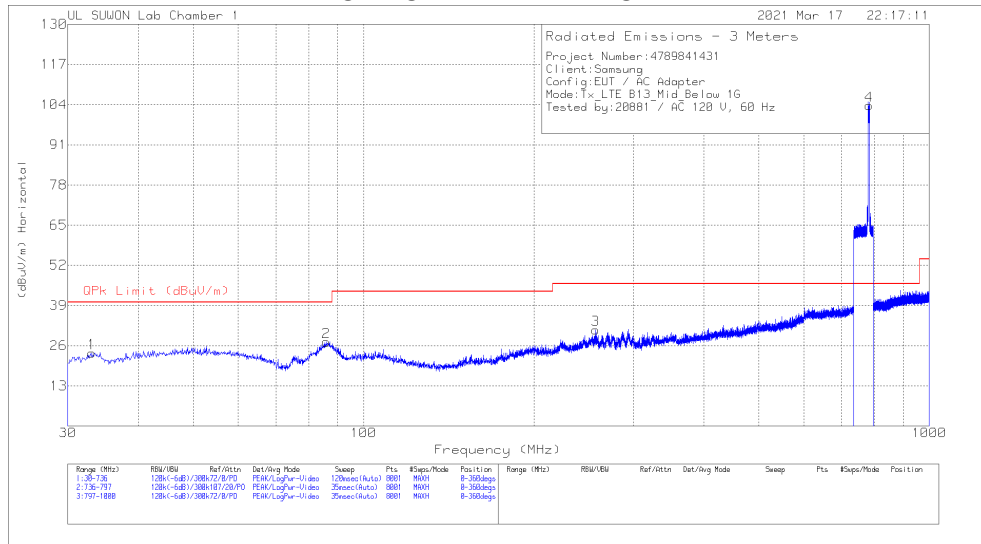
Pk - Peak detector

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

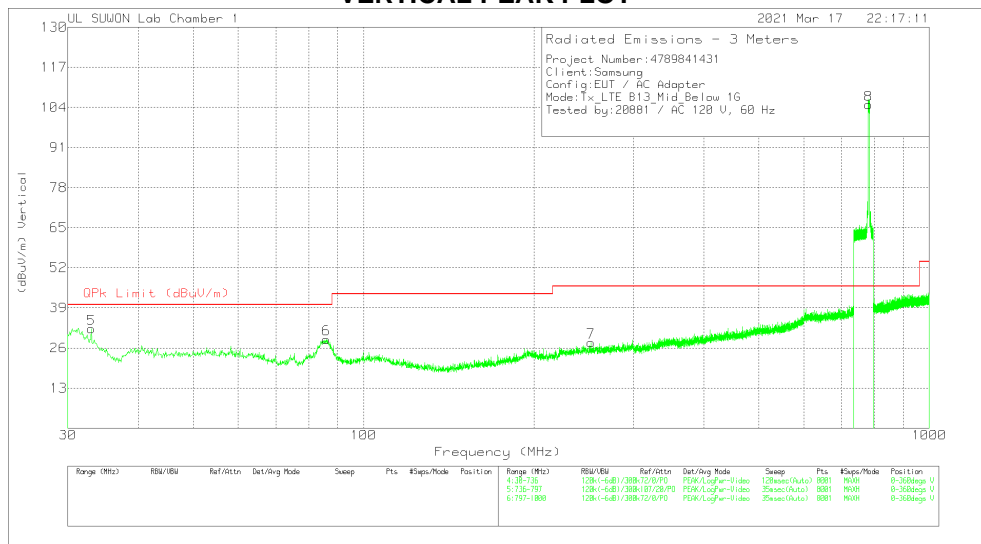
7.10. Below 1 GHz in the LTE Band 13

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	33.0888	6.53	Pk	15.8	1.3	23.63	40	-16.37	0-360	300	H
2	85.9505	10.3	Pk	14.5	2.4	27.2	40	-12.8	0-360	200	H
3	257.332	8.35	Pk	18.5	4.3	31.15	46.02	-14.87	0-360	100	H
4	782.6879	69.79	Pk	26.6	7.3	103.69	46.02	57.67	0-360	100	H
5	33.0005	15.02	Pk	15.8	1.4	32.22	40	-7.78	0-360	100	V
6	85.8623	12.02	Pk	14.4	2.4	28.82	40	-11.18	0-360	100	V
7	252.5665	5.21	Pk	18.5	4.1	27.81	46.02	-18.21	0-360	100	V
8	781.6509	70.76	Pk	26.7	7.4	104.86	46.02	58.84	0-360	100	V

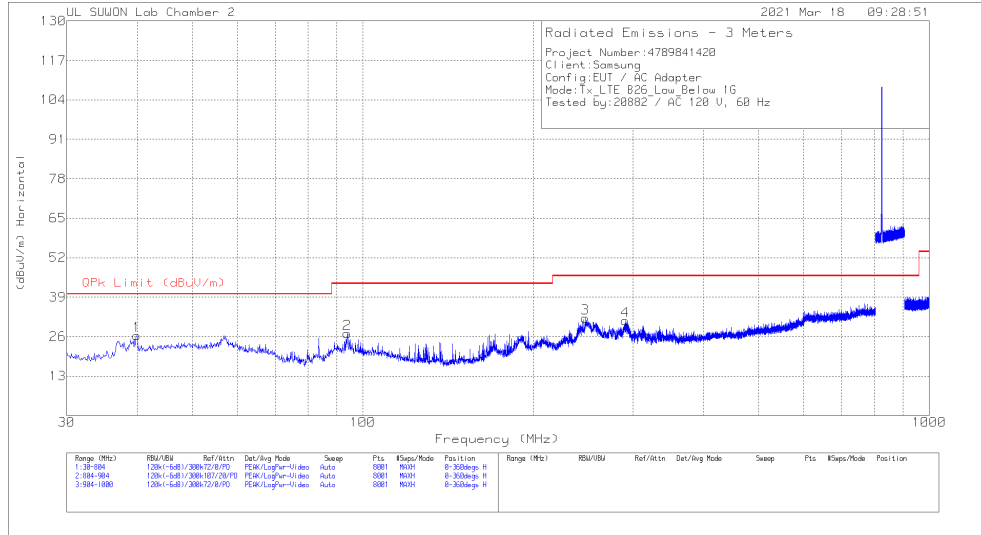
Pk - Peak detector

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

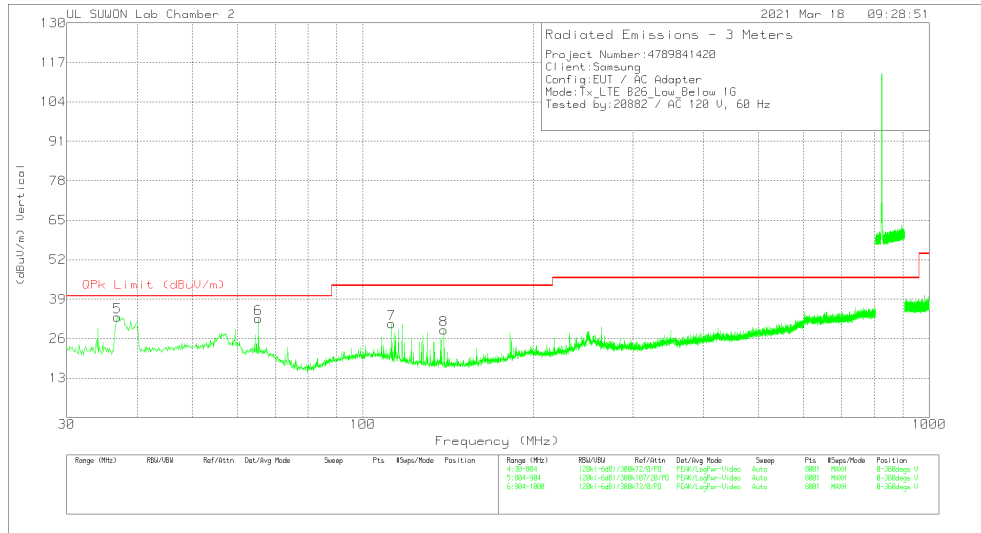
7.11. Below 1 GHz in the LTE Band 26

LOW CHANNEL(860.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

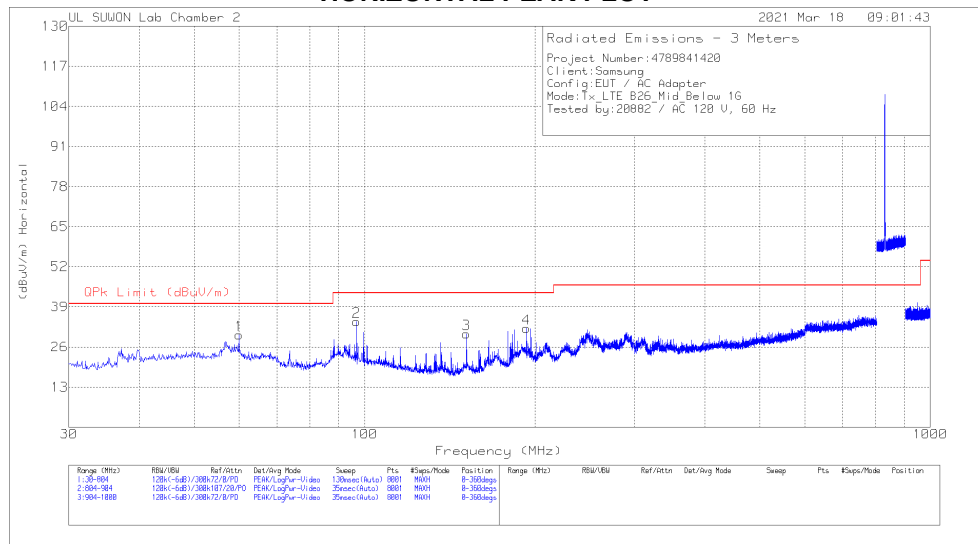
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	39.8685	7.11	Pk	18.6	.7	26.41	40	-13.59	0-360	200	H
2	93.855	9.56	Pk	16.4	1.1	27.06	43.52	-16.46	0-360	300	H
3	247.107	11.91	Pk	18.4	1.8	32.11	46.02	-13.91	0-360	100	H
4	290.5478	10.28	Pk	19	1.9	31.18	46.02	-14.84	0-360	100	H
5	36.8693	15.28	PK	17.3	.6	33.18	40	-6.82	0-360	200	V
6	65.4105	14.79	Pk	16.9	.9	32.59	40	-7.41	0-360	100	V
7	112.431	13.32	Pk	16.4	1.2	30.92	43.52	-12.6	0-360	100	V
8	139.134	13.73	Pk	13.8	1.3	28.83	43.52	-14.69	0-360	100	V

Pk - Peak detector

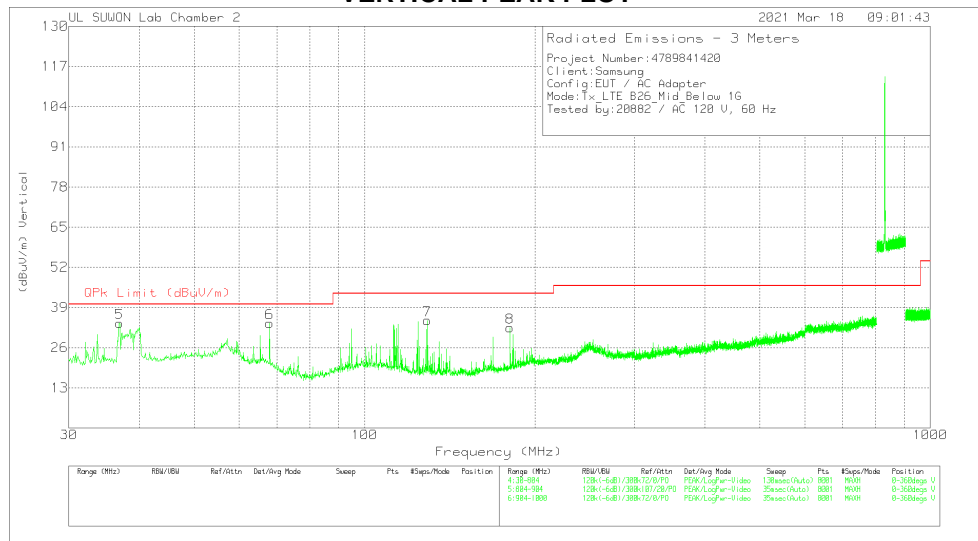
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

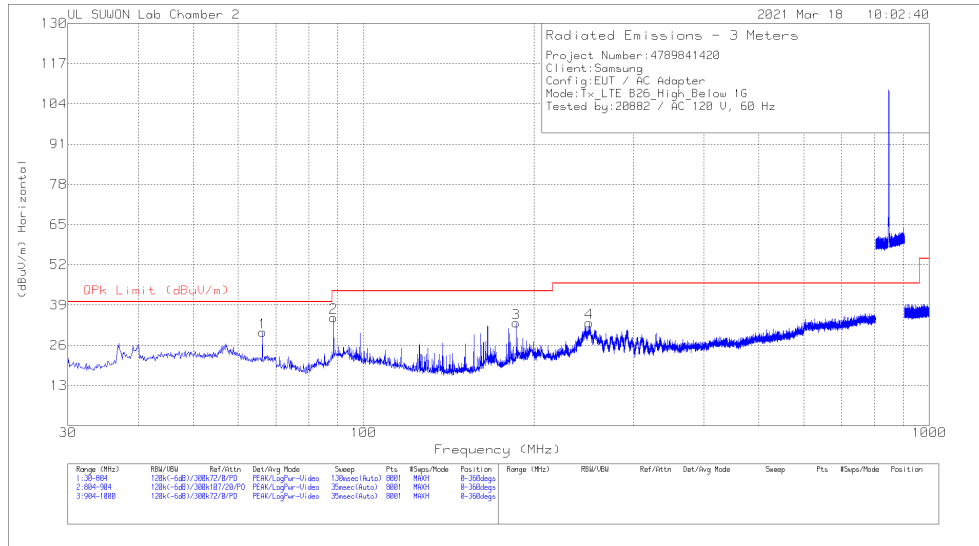
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.9925	10.74	Pk	18.5	.7	29.94	40	-10.06	0-360	200	H
2	96.8543	16.16	Pk	17	1.1	34.26	43.52	-9.26	0-360	300	H
3	151.4213	14.98	PK	13.8	1.5	30.28	43.52	-13.24	0-360	100	H
4	193.2173	13.67	Pk	16.9	1.5	32.07	43.52	-11.45	0-360	100	H
5	36.8693	16.07	Pk	17.3	.6	33.97	40	-6.03	0-360	100	V
6	67.926	16.98	Pk	16.1	.9	33.98	40	-6.02	0-360	100	V
7	129.1688	19.22	Pk	14.3	1.3	34.82	43.52	-8.7	0-360	100	V
8	180.6398	15.69	Pk	15.4	1.4	32.49	43.52	-11.03	0-360	400	V

Pk - Peak detector

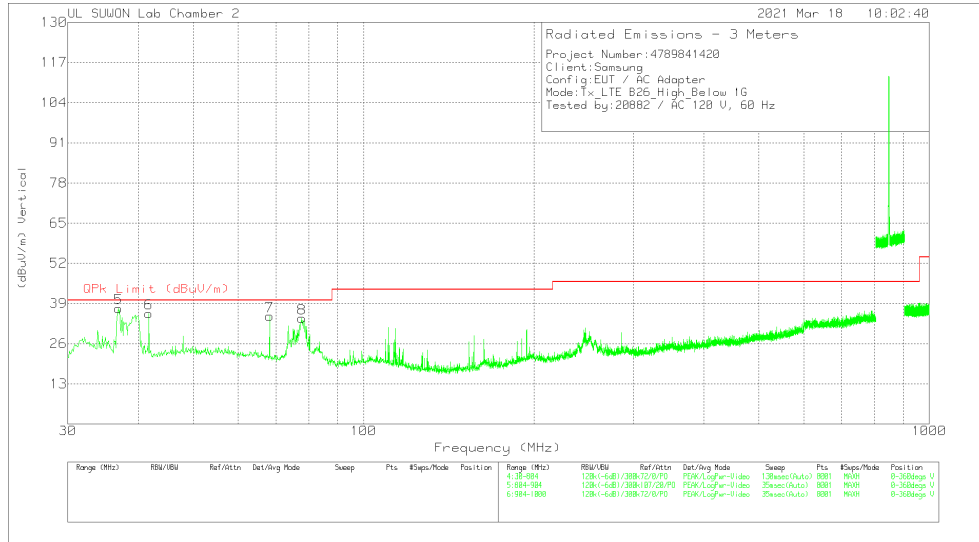
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(892.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.2813	12.74	Pk	16.7	.8	30.24	40	-9.76	0-360	200	H
2	88.5338	18.63	Pk	15.3	1	34.93	43.52	-8.59	0-360	300	H
3	186.1545	15.7	Pk	15.9	1.6	33.2	43.52	-10.32	0-360	300	H
4	250.59	12.97	Pk	18.4	1.9	33.27	46.02	-12.75	0-360	100	H
5	36.8693	19.57	Pk	17.3	.6	37.47	40	-2.53	0-360	100	V
6	41.7068	16.21	Pk	19	.6	35.81	40	-4.19	0-360	100	V
7	68.2163	18	Pk	16	.9	34.9	40	-5.1	0-360	100	V
8	77.7945	20.74	Pk	12.5	1	34.24	40	-5.76	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
36.8693	12.18	Qp	17.3	.6	30.08	40	-9.92	129	107	V
41.6193	-.06	Qp	19	.7	19.64	40	-20.36	168	100	V

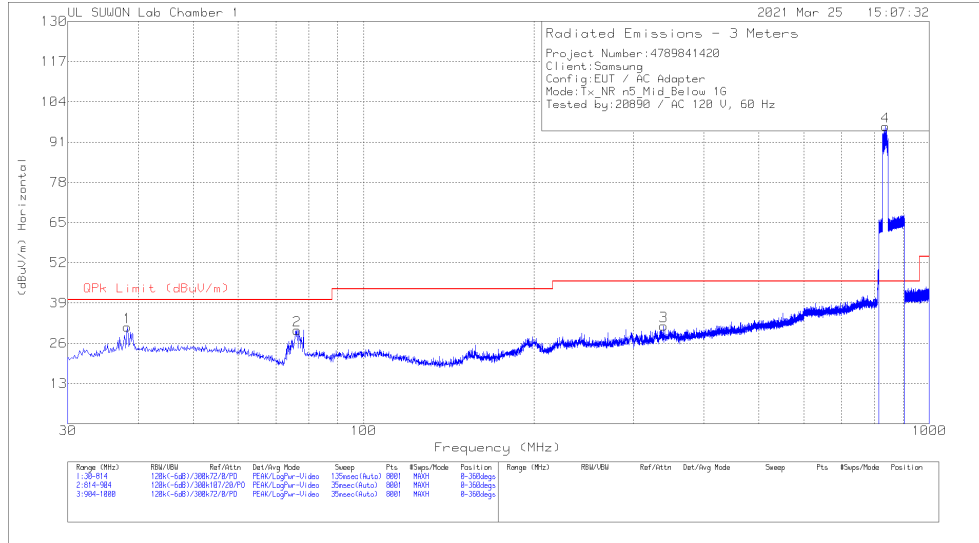
Qp - Quasi-Peak detector

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

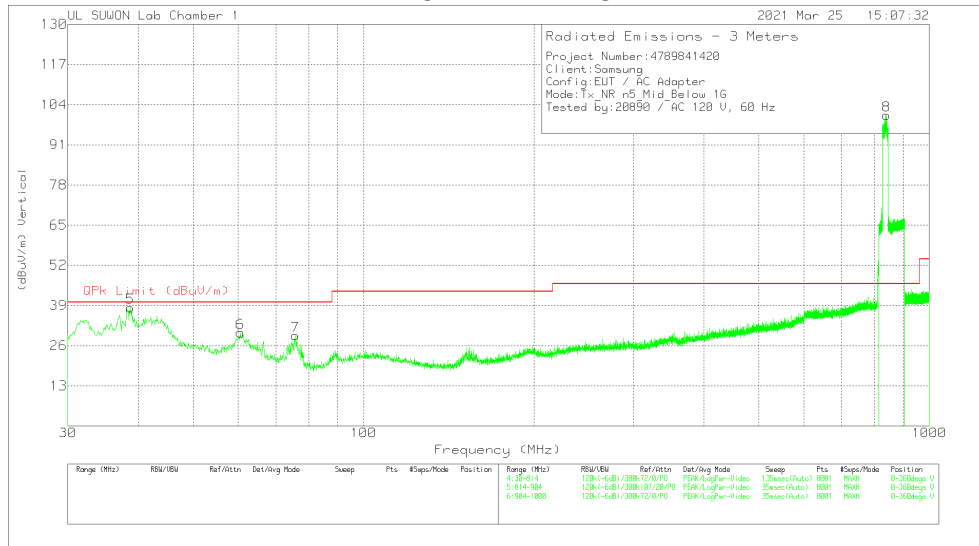
7.12. Below 1 GHz in the 5G NR Band 5

MID CHANNEL(881.6MHz)

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	38.232	11.65	Pk	18	1.6	31.25	40	-8.75	0-360	200	H
2	76.256	14.79	Pk	13	2.4	30.19	40	-9.81	0-360	400	H
3	339.19	6.1	Pk	20.5	5	31.6	46.02	-14.42	0-360	400	H
4	837.5238	61.47	Pk	27.1	7.5	96.07	46.02	50.05	0-360	100	H
5	38.722	18.29	Pk	18.3	1.7	38.29	40	-1.71	0-360	100	V
6	60.576	9.59	Pk	18.5	2.1	30.19	40	-9.81	0-360	100	V
7	75.766	13.7	Pk	13.2	2.3	29.2	40	-10.8	0-360	100	V
8	840.4488	65.75	Pk	27.2	7.6	100.55	46.02	54.53	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
38.722	13.14	Qp	18.3	1.7	33.14	40	-6.86	339	100	V

Qp - Quasi-Peak detector

Note1: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

Note2: The signal of marker 4 is the LTE signal of the EN-DC combination.

END OF TEST REPORT