



CERTIFICATION TEST REPORT

Report Number. : 4789899747-E1V1

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

Model : SM-H111U

FCC ID : A3LSMH111U

EUT Description : Communication Module

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

Date Of Issue:

2021-06-18

Prepared by:

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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	2021-06-18	Initial issue	SunGeun Lee

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION.....	6
4.2. SAMPLE CALCULATION.....	6
4.3. MEASUREMENT UNCERTAINTY	6
4.4. DECISION RULE	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT.....	7
5.2. TEST MODE.....	7
5.3. WORST-CASE ORIENTATION AND MODE.....	8
5.4. DESCRIPTION OF TEST SETUP.....	9
6. TEST AND MEASUREMENT EQUIPMENT	10
7. APPLICABLE LIMITS AND TEST RESULTS	11
7.1. Above 1 GHz in the WCDMA Band 5	12
7.2. Above 1 GHz in the LTE Band 5	15
7.3. Above 1 GHz in the LTE Band 12	18
7.4. Above 1 GHz in the LTE Band 13	21
7.5. Above 1 GHz in the LTE Band 14	24
7.6. Above 1 GHz in the LTE Band 71	27
7.7. Above 1 GHz in the 5G NR Band 5	30
7.8. Above 1 GHz in the 5G NR Band 71	33
7.9. Below 1 GHz in the WCDMA Band 5.....	36
7.10. Below 1 GHz in the LTE Band 5.....	39
7.11. Below 1 GHz in the LTE Band 12.....	42
7.12. Below 1 GHz in the LTE Band 13.....	45
7.13. Below 1 GHz in the LTE Band 14.....	48
7.14. Below 1 GHz in the LTE Band 71.....	51
7.15. Below 1 GHz in the 5G NR Band 5.....	54
7.16. Below 1 GHz in the 5G NR Band 71.....	57

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: Communicaion Module
MODEL NUMBER: SM-H111U
SERIAL NUMBER: R3AR4053MRX, R3AR400JNXB, R3AR5005Y8P (RADIATED)
DATE TESTED: 2021-04-13 ~ 2021-06-02;

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:



Sungeun Lee
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 2, Clause 4.4.3 in IEC Guide 115:2007.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Communication Module.
This test report addresses the WWAN receiver mode.

5.2. TEST MODE

Mode	Description
WCDMA BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 12	Communicating with Call simulator(CMW500)
LTE BAND 13	Communicating with Call simulator(CMW500)
LTE BAND 14	Communicating with Call simulator(CMW500)
LTE BAND 71	Communicating with Call simulator(CMW500)
5G NR BAND n5	Communicating with Call simulator(E7515B)
5G NR BAND n71	Communicating with Call simulator(E7515B)

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.

Band	RSE		
	X	Y	Z
WCDMA B5	O	-	-
LTE B5	O	-	-
LTE B12	-	O	-
LTE B13	-	O	-
LTE B14	O	-	-
LTE B71	O	-	-
NR n5	O	-	-
NR n71	O	-	-

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
JIG Board	SAMSUNG	N/A	N/A	N/A
External antenna x 4ea	SAMSUNG	LMH ant	N/A	N/A

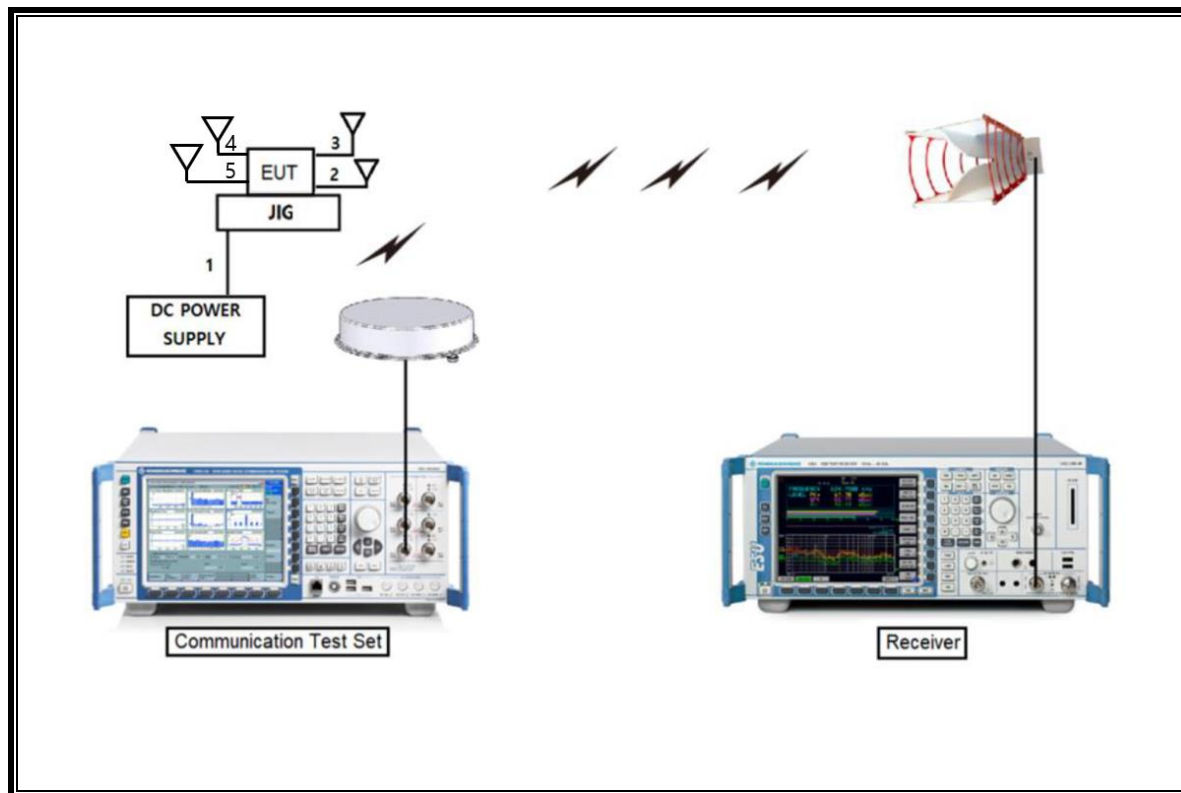
I/O CABLE

Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	DC IN	Shielded	1.0 m	N/A
2	ANT#0	2	MHF Type	Shielded	95.5 mm	N/A
3	ANT#1	3	MHF Type	Shielded	95.5 mm	N/A
4	ANT#2	4	MHF Type	Shielded	95.5 mm	N/A
5	ANT#3	5	MHF Type	Shielded	95.5 mm	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:

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
Preamplifier	ETS	3116C-PA	00168841	2021-08-06
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2022-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2022-08-19
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2022-08-13
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2022-08-13
Antenna, Horn, 18 GHz	ETS	3115	00167211	2022-07-27
Antenna, Horn, 18 GHz	ETS	3115	00161451	2022-08-15
Antenna, Horn, 18 GHz	ETS	3117	00168724	2022-07-27
Antenna, Horn, 18 GHz	ETS	3117	00168717	2022-08-15
Communications Test Set	R&S	CMW500	150314	2021-08-03
Preamplifier, 1000 MHz	Sonoma	310N	341282	2021-08-03
Preamplifier, 1000 MHz	Sonoma	310N	370599	2021-08-06
Preamplifier, 1000 MHz	Sonoma	310N	351741	2021-08-03
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	2021-08-03
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2021-08-04
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2021-08-03
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2021-08-03
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2021-08-03
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	2021-08-05
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2021-08-05
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2021-08-05
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2021-08-05
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2021-08-05
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2021-08-05
Attenuator	PASTERNAK	PE7087-10	A009	2021-08-05
Attenuator	PASTERNAK	PE7087-10	A001	2021-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2021-08-03
Attenuator	PASTERNAK	PE7004-10	2	2021-08-04
Attenuator	PASTERNAK	PE7395-10	A011	2021-08-05
Power Supply	AGILENT	E3640A	MY54226391	2021-08-05
UL Software				
Description	Manufacturer	Model	Version	
Radiated 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:

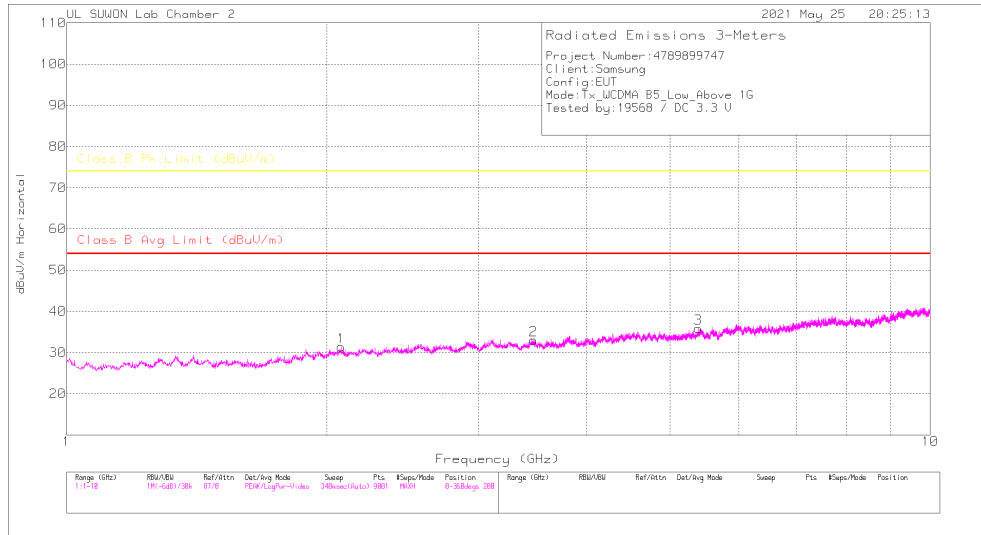
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

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

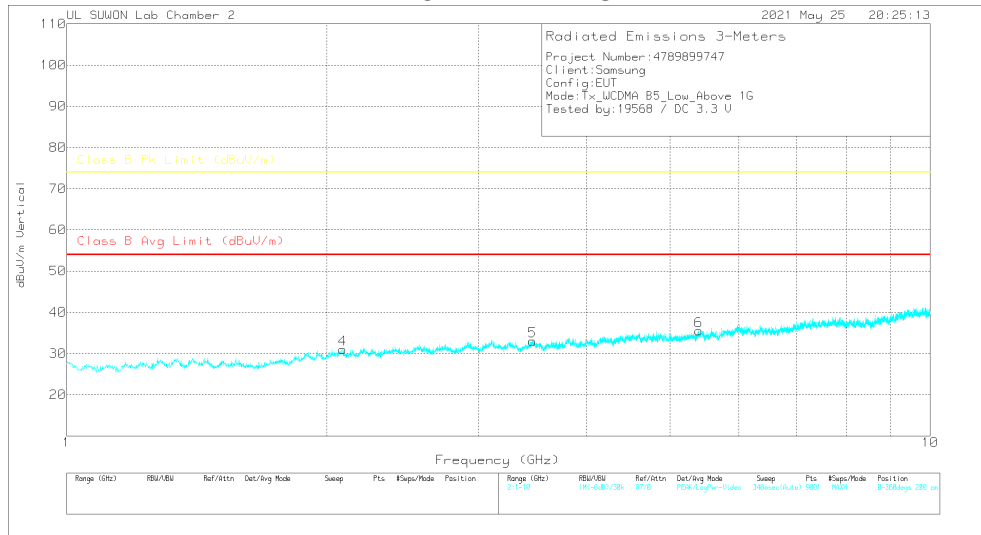
7.1. Above 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

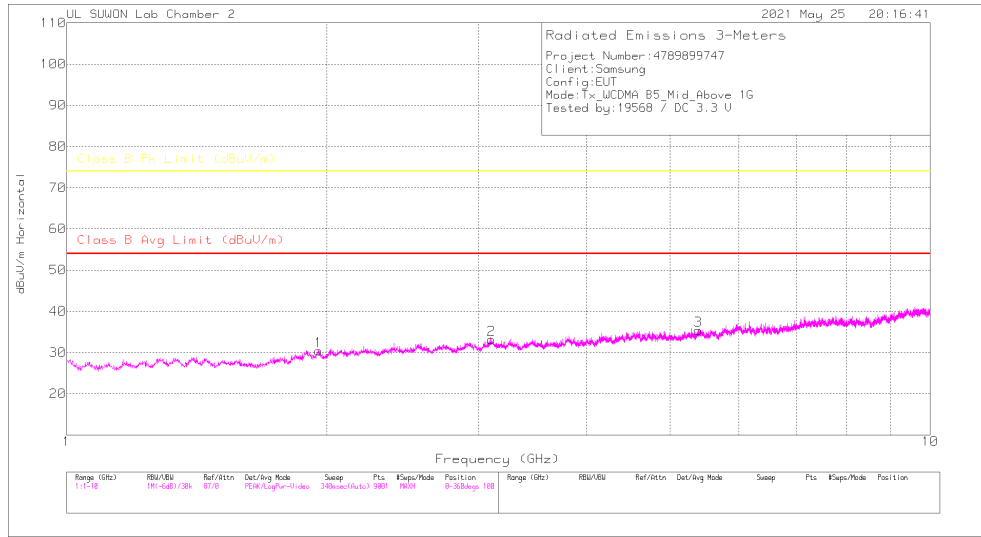
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	2.078	30.07	PK	31.5	-30.8	.6	31.37	-	-	74	-42.63	0-360	200	H
2	3.473	28.37	PK	32.8	-28.8	.6	32.97	-	-	74	-41.03	0-360	200	H
3	5.389	28.64	PK	34.5	-27.8	.5	35.84	-	-	74	-38.16	0-360	200	H
4	2.087	29.59	PK	31.6	-30.8	.6	30.99	-	-	74	-43.01	0-360	100	V
5	3.464	28.41	PK	32.8	-28.8	.6	33.01	-	-	74	-40.99	0-360	200	V
6	5.392	28.32	PK	34.5	-27.8	.5	35.52	-	-	74	-38.48	0-360	100	V

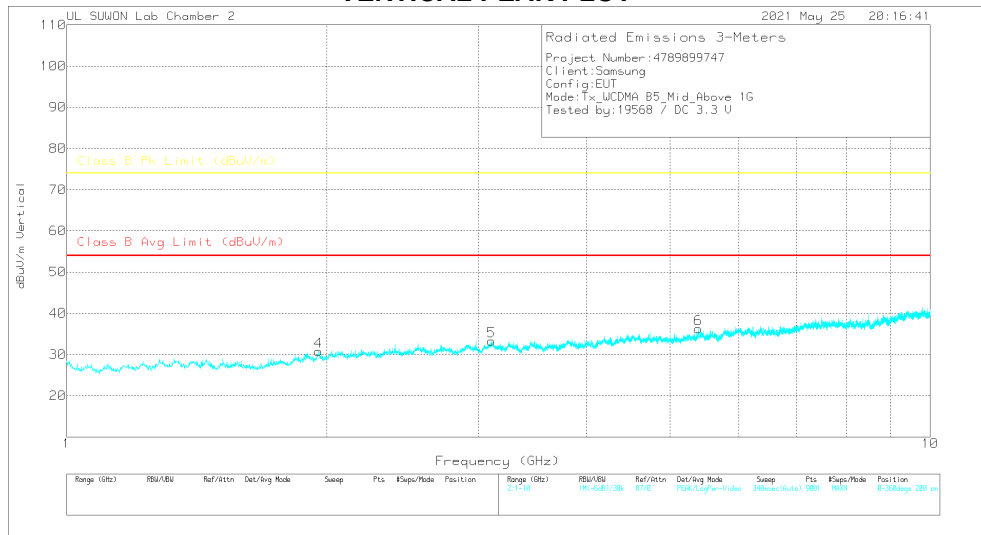
Pk - Peak detector

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

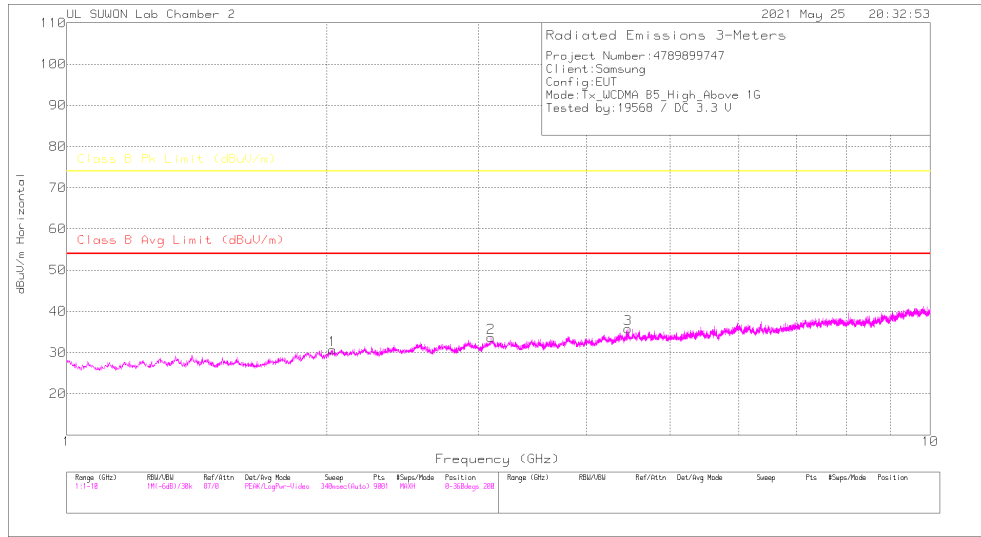
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	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	1.958	29.64	PK	31	-30.6	.6	30.44	-	-	74	-43.56	0-360	100	H
2	3.106	28.93	PK	32.9	-29.4	.7	33.13	-	-	74	-40.87	0-360	200	H
3	5.389	28.15	PK	34.5	-27.8	.5	35.35	-	-	74	-38.65	0-360	100	H
4	1.958	30.02	PK	31	-30.6	.6	30.82	-	-	74	-43.18	0-360	100	V
5	3.105	29.18	PK	32.9	-29.5	.7	33.28	-	-	74	-40.72	0-360	200	V
6	5.391	29.11	PK	34.5	-27.9	.5	36.21	-	-	74	-37.79	0-360	100	V

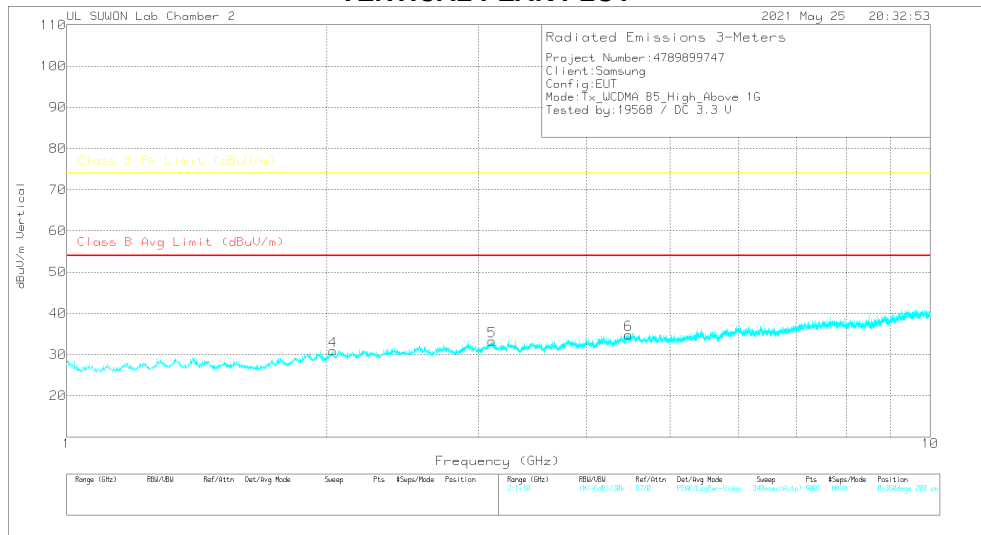
Pk - Peak detector

HIGH CHANNEL(891.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

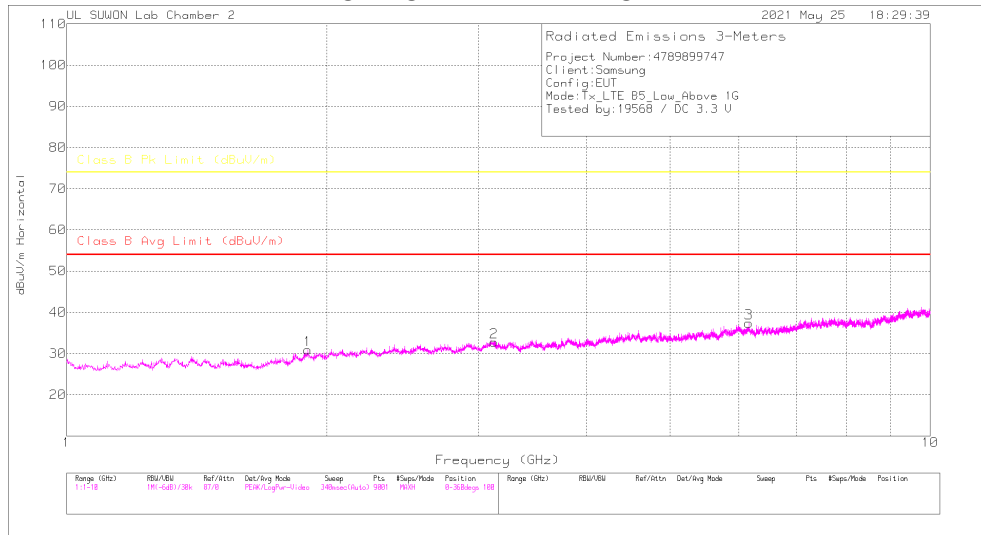
Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.032	29.5	PK		-30.8	.6	30.6	-	-	74	-43.4	0-360	100	H
2	3.1	29.54	PK		-29.5	.7	33.64	-	-	74	-40.36	0-360	100	H
3	4.465	29.4	PK		-28.1	.5	35.7	-	-	74	-38.3	0-360	200	H
4	2.033	29.75	PK		-31.4	.6	30.85	-	-	74	-43.15	0-360	200	V
5	3.11	28.99	PK		-29.3	.7	33.29	-	-	74	-40.71	0-360	200	V
6	4.474	28.52	PK		-28.1	.5	34.82	-	-	74	-39.18	0-360	200	V

Pk - Peak detector

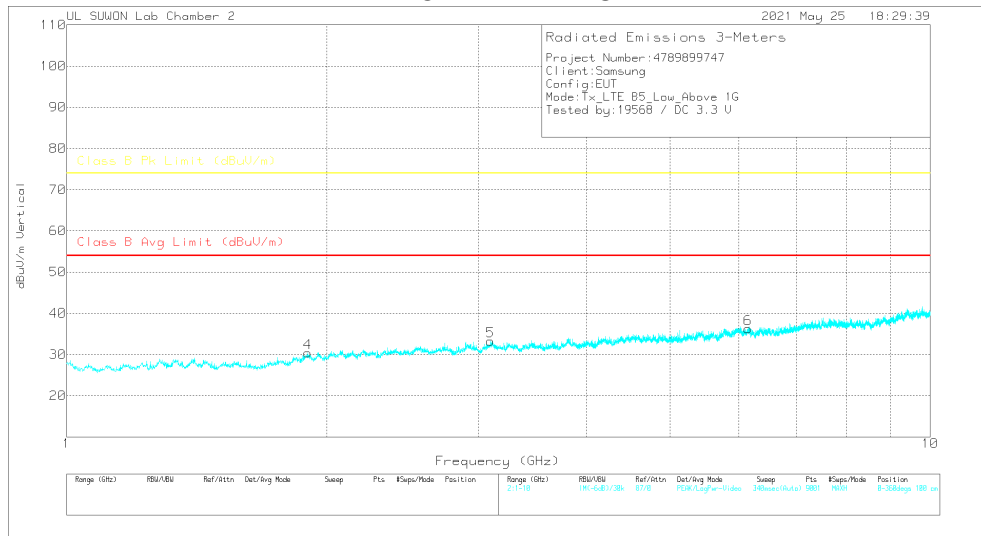
7.2. Above 1 GHz in the LTE Band 5

LOW CHANNEL(871.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

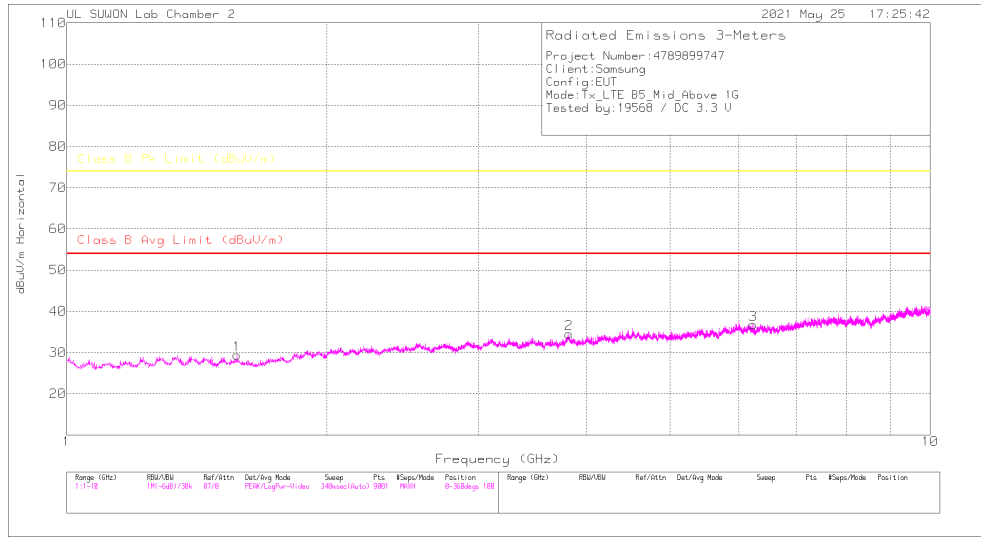
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	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	1.902	30.34	PK	30.8	-30.8	.6	30.94	-	-	74	-43.06	0-360	100	H
2	3.125	28.66	PK	33	-29.6	.7	32.76	-	-	74	-41.24	0-360	100	H
3	6.165	28.13	PK	35.3	-28.5	.5	37.43	-	-	74	-38.57	0-360	200	H
4	1.901	29.89	PK	30.8	-30.9	.6	30.39	-	-	74	-43.61	0-360	200	V
5	3.097	29.34	PK	32.9	-29.7	.7	33.24	-	-	74	-40.76	0-360	100	V
6	6.149	26.83	PK	35.3	-26.4	.5	36.23	-	-	74	-37.77	0-360	200	V

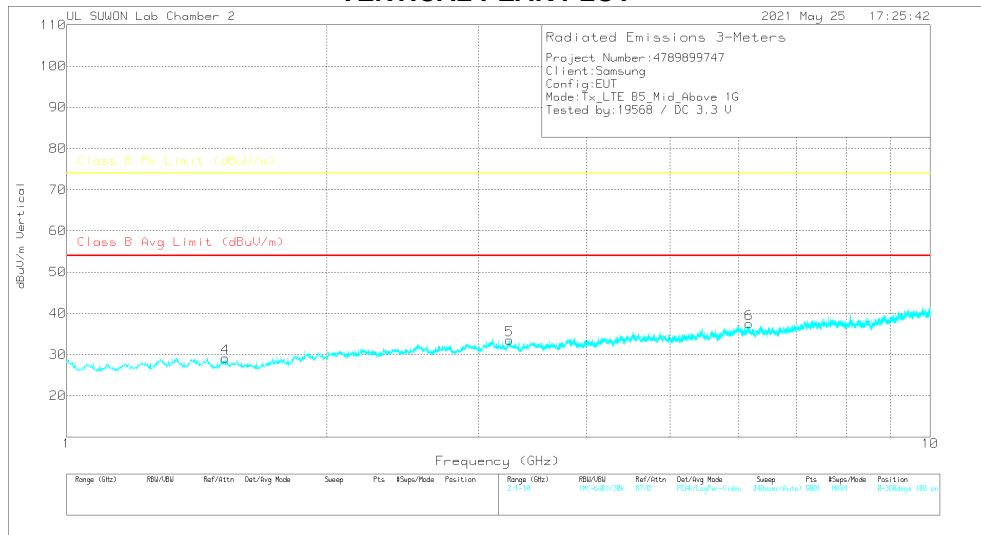
PK – Peak Detector

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

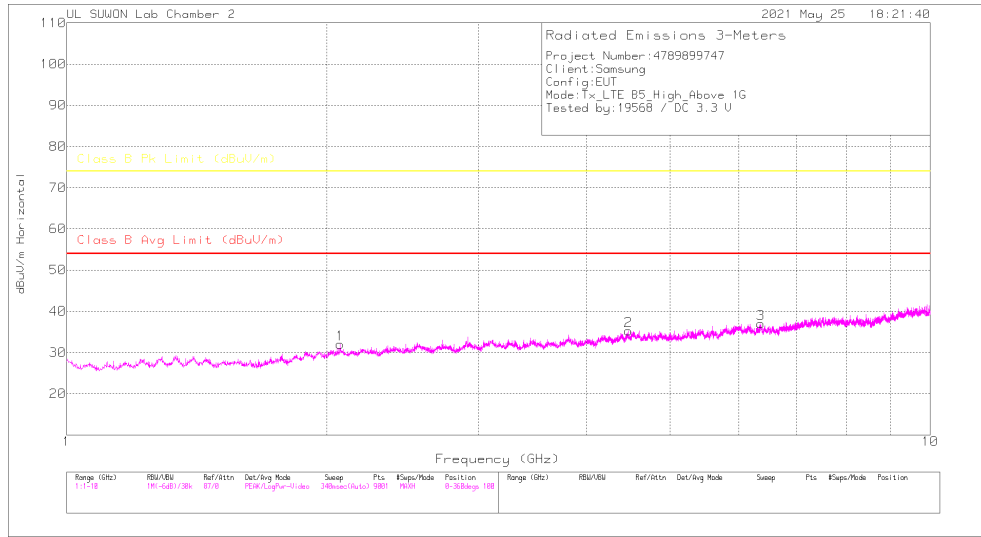
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HIP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av[CISPR]Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.575	31.38	PK		-31.4	.7	29.38	-	-	74	-44.62	0-360	100	H
2	3.815	29.19	PK		-28.6	.6	34.49	-	-	74	-39.51	0-360	200	H
3	6.238	27.64	PK		-26.7	.5	36.74	-	-	74	-37.26	0-360	100	H
4	1.525	31	PK		-31.5	.8	29.2	-	-	74	-44.8	0-360	200	V
5	3.257	29.57	PK		-29.7	.7	33.47	-	-	74	-40.53	0-360	100	V
6	6.166	28.16	PK		-26.5	.5	37.46	-	-	74	-36.54	0-360	100	V

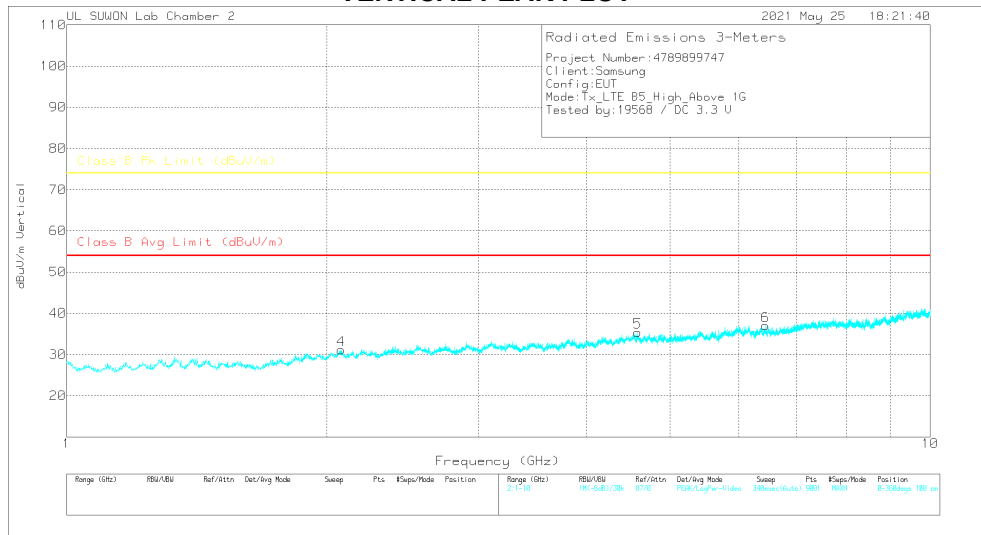
PK – Peak Detector

HIGH CHANNEL(891.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

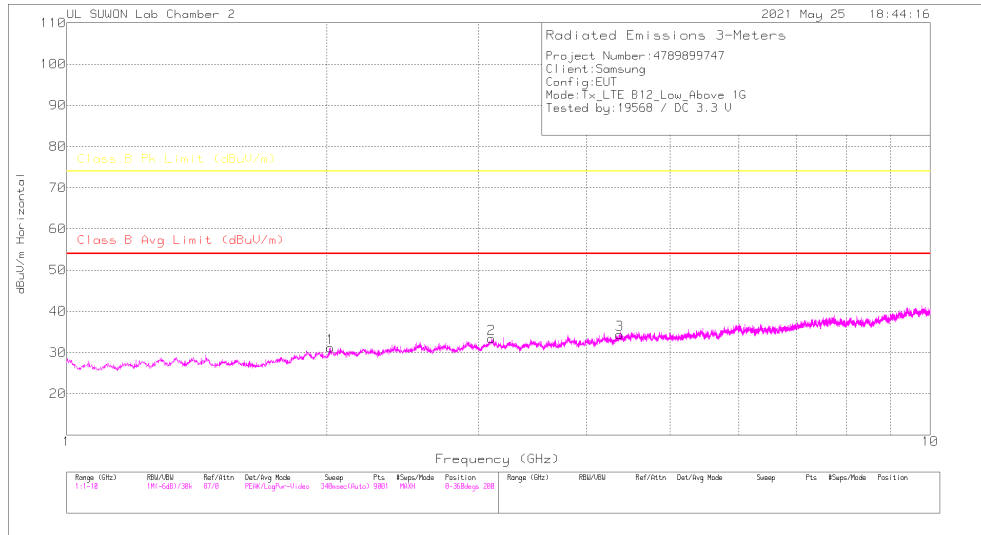
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HIP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avg(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.072	30.61	PK	31.5	-30.7	.6	32.01	-	-	74	-41.99	0-360	200	H
2	4.472	29.08	PK	33.9	-28.2	.5	35.28	-	-	74	-38.72	0-360	100	H
3	6.364	27.5	PK	35.4	-26.4	.5	37	-	-	74	-37	0-360	200	H
4	2.08	29.69	PK	31.5	-30.7	.6	31.09	-	-	74	-42.91	0-360	100	V
5	4.584	29.34	PK	34.1	-28.5	.5	35.44	-	-	74	-38.56	0-360	100	V
6	6.448	27.4	PK	35.4	-26.3	.5	37	-	-	74	-37	0-360	200	V

PK – Peak Detector

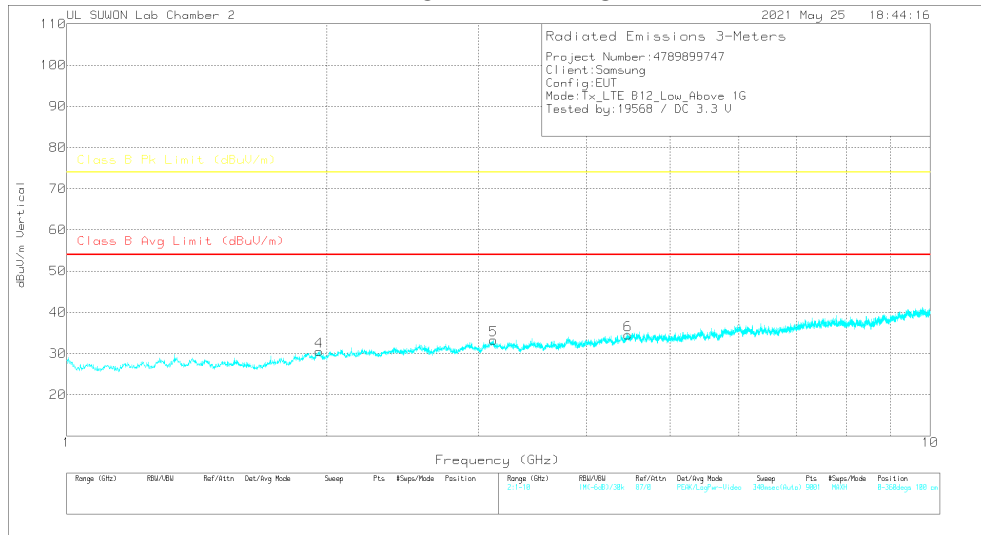
7.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

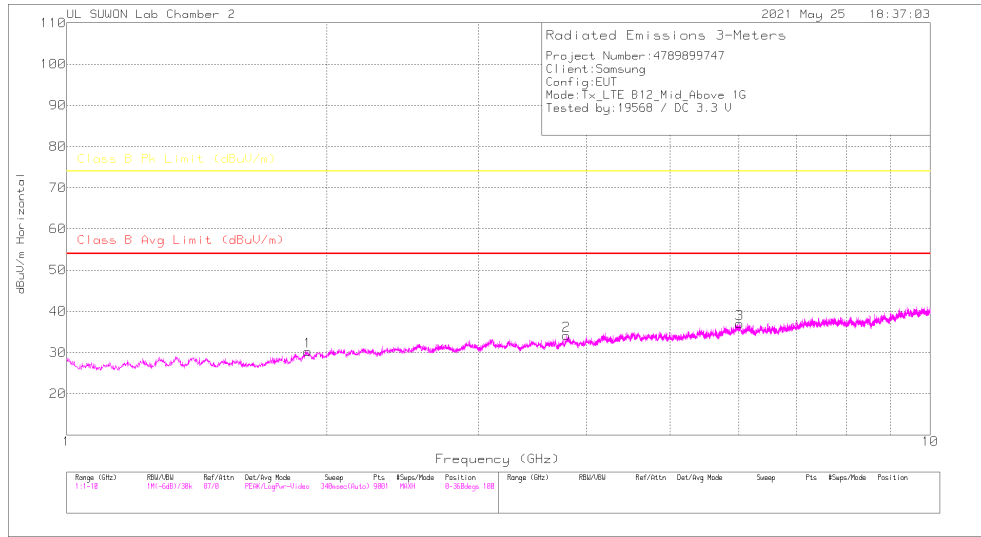
Trace Markers

Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	3117_00168724	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	2.021	30.19	PK	31.3	-30.9	.6	31.19	-	-	74	-42.81	0-360	100	H
2	3.104	29.3	PK	32.9	-29.5	.7	33.4	-	-	74	-40.6	0-360	200	H
3	4.372	28.83	PK	33.7	-28.6	.5	34.43	-	-	74	-39.57	0-360	200	H
4	1.959	29.84	PK	31	-30.9	.6	30.54	-	-	74	-43.46	0-360	100	V
5	3.12	29.27	PK	32.9	-29.6	.7	33.27	-	-	74	-40.73	0-360	200	V
6	4.469	28.19	PK	33.9	-28.1	.5	34.49	-	-	74	-39.51	0-360	200	V

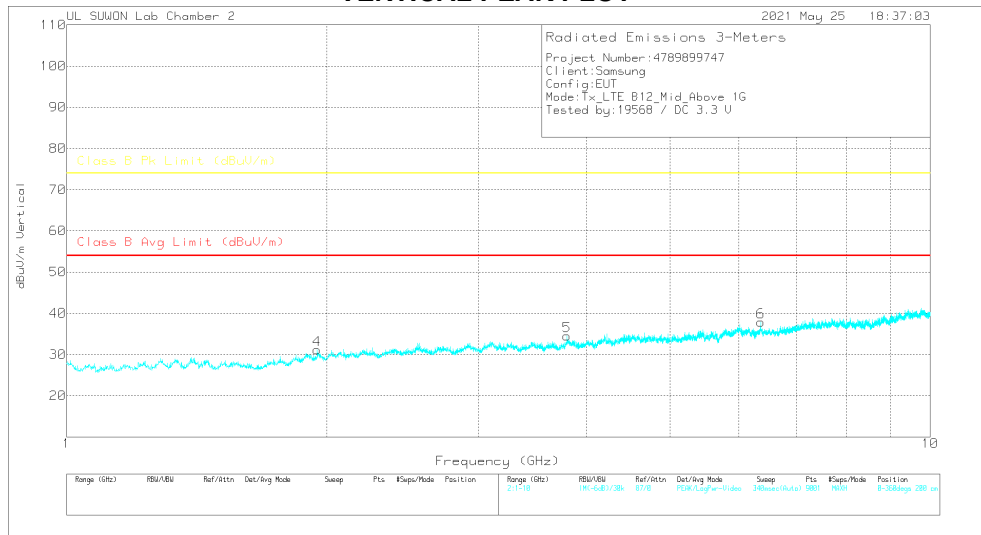
PK – Peak Detector

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

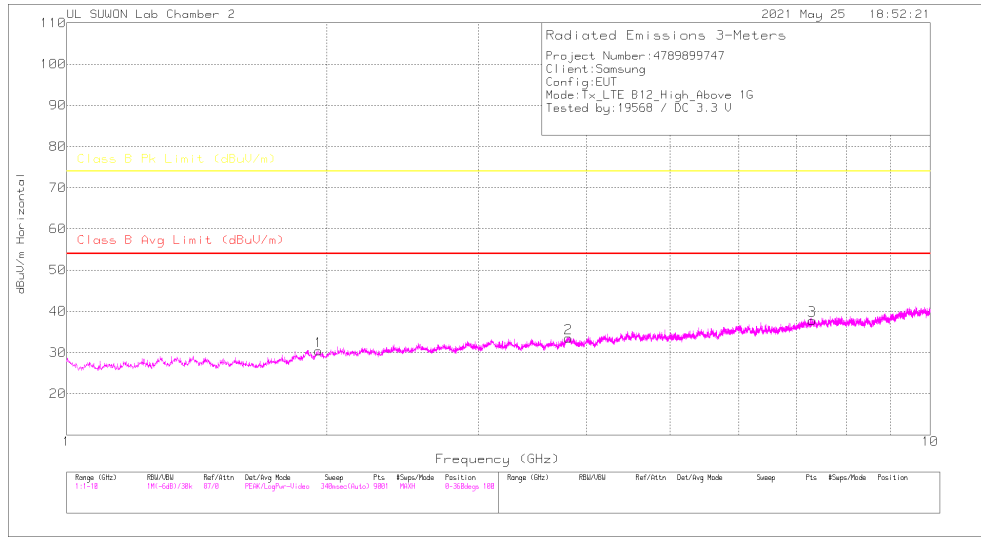
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBu/m)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading (dBu/m)	Class B Avg Limit (dBu/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.902	29.67	PK	30.8	-30.8	.6	30.27	-	-	74	-43.73	0-360	100	H
2	3.79	29.2	PK	33.3	-29	.6	34.1	-	-	74	-39.9	0-360	100	H
3	6.015	28.27	PK	35.2	-27	.5	36.97	-	-	74	-37.03	0-360	100	H
4	1.95	30.39	PK	31	-30.9	.6	31.09	-	-	74	-42.91	0-360	100	V
5	3.794	29.4	PK	33.3	-28.8	.6	34.5	-	-	74	-39.5	0-360	100	V
6	6.363	28.4	PK	35.4	-26.4	.5	37.9	-	-	74	-36.1	0-360	100	V

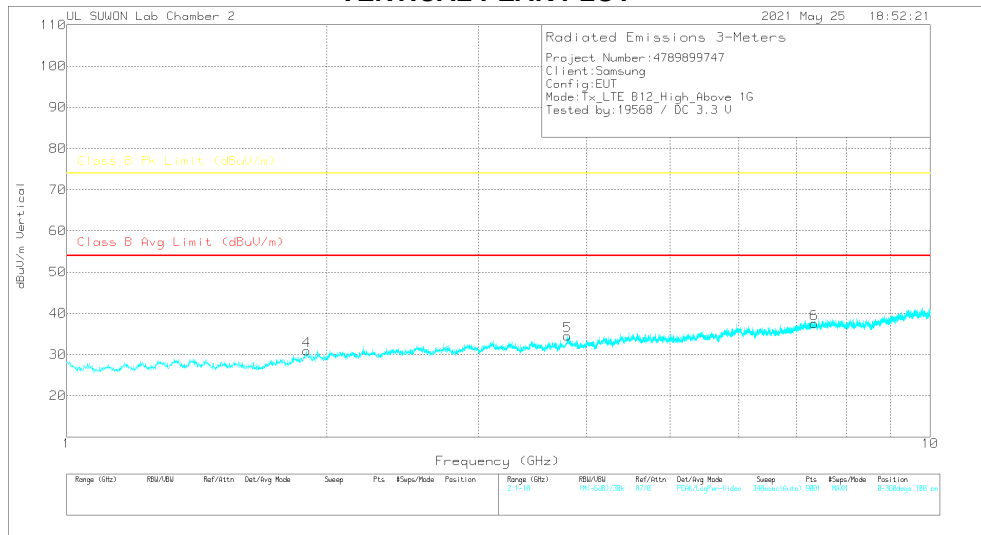
PK - Peak Detector

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

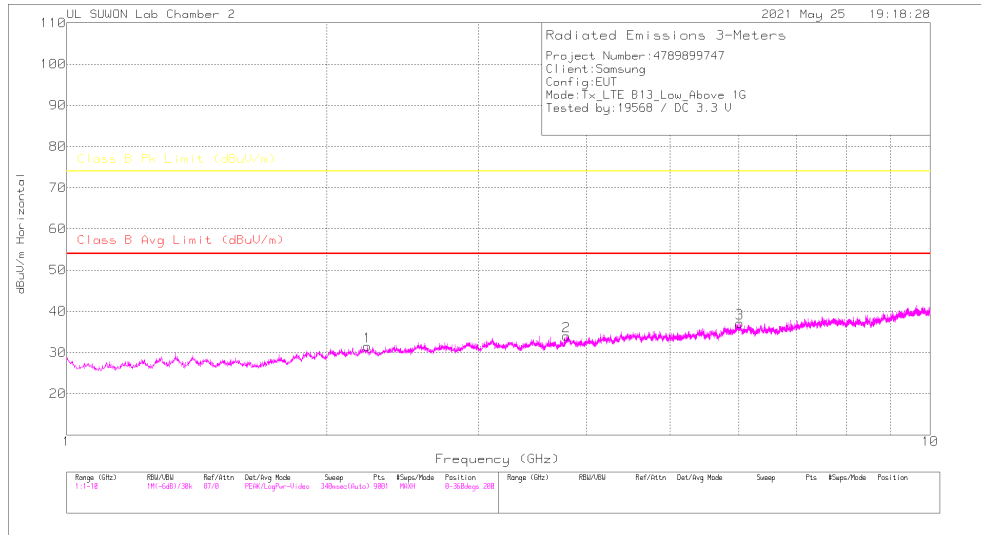
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.957	29.57	PK	31	-30.8	.8	30.57	-	-	74	-43.63	0-360	100	H
2	3.81	28.39	PK	33.3	-28.8	.6	33.49	-	-	74	-40.51	0-360	100	H
3	7.297	26.51	PK	36.2	-25.4	.5	37.81	-	-	74	-36.19	0-360	100	H
4	1.896	30.44	PK	30.7	-30.9	.7	30.94	-	-	74	-43.06	0-360	100	V
5	3.799	29.43	PK	33.3	-28.8	.6	34.53	-	-	74	-39.47	0-360	200	V
6	7.34	26.08	PK	36.1	-25.2	.5	37.48	-	-	74	-36.52	0-360	100	V

PK – Peak Detector

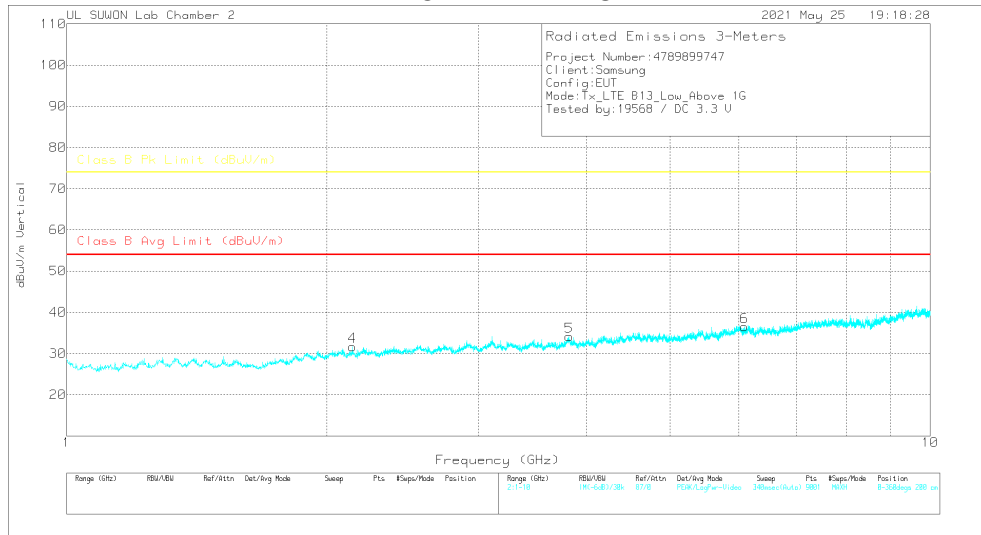
7.4. Above 1 GHz in the LTE Band 13

LOW CHANNEL(748.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

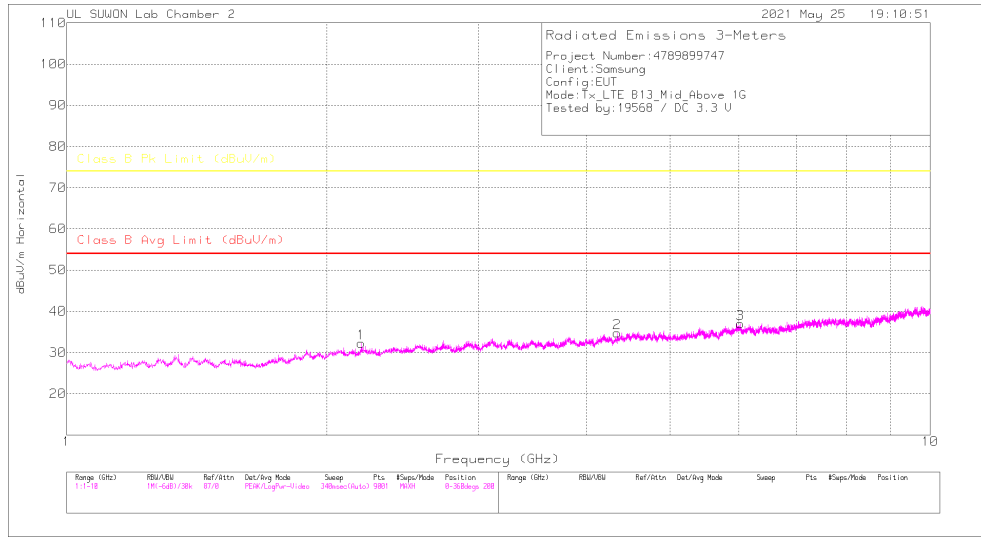
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_001689724	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	2.229	29.79	PK	31.7	-30.7	.7	31.49	-	-	74	-42.51	0-360	200	H
2	3.791	29.16	PK	33.3	-29	.6	34.06	-	-	74	-39.94	0-360	200	H
3	6.021	28.48	PK	35.2	-27	.5	37.18	-	-	74	-36.82	0-360	100	H
4	2.143	29.9	PK	31.7	-30.6	.7	31.7	-	-	74	-42.3	0-360	200	V
5	3.819	28.84	PK	33.4	-28.7	.6	34.14	-	-	74	-39.86	0-360	100	V
6	6.094	27.69	PK	35.2	-26.9	.5	36.49	-	-	74	-37.51	0-360	100	V

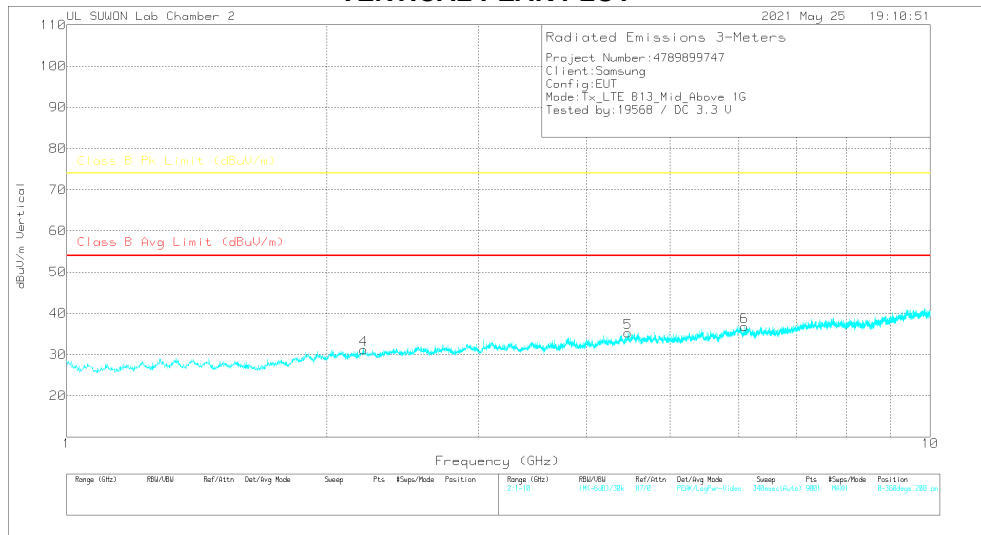
PK – Peak Detector

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

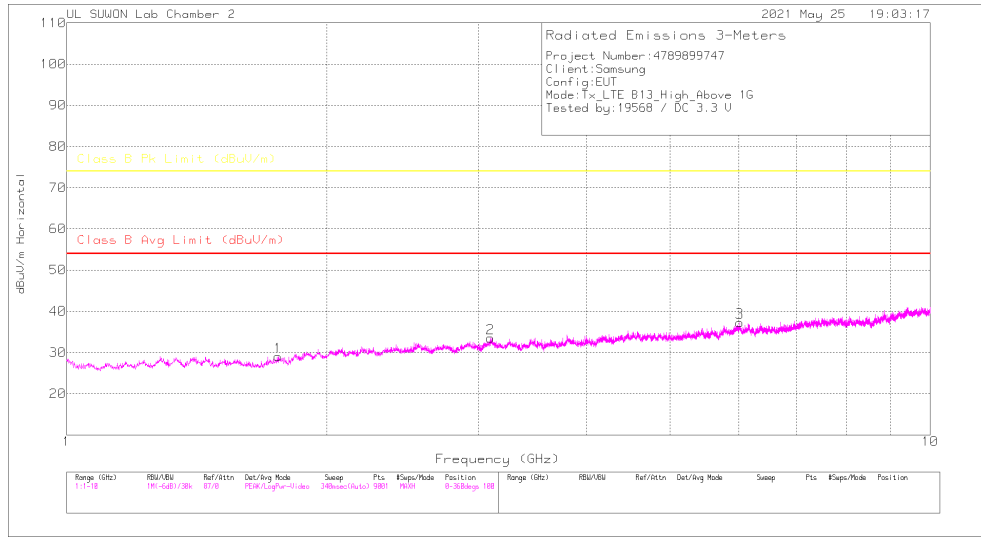
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBu)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBu/m	Class B Avg Limit (dBu/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.194	30.37	PK	31.7	-30.5	.7	32.27	-	-	74	-41.73	0-360	200	H
2	4.343	29.56	PK	33.6	-28.9	.5	34.76	-	-	74	-39.24	0-360	200	H
3	6.028	28.4	PK	35.2	-27.1	.5	37	-	-	74	-37	0-360	100	H
4	2.207	29.31	PK	31.7	-30.6	.7	31.11	-	-	74	-42.89	0-360	100	V
5	4.467	28.97	PK	33.9	-28.1	.5	35.27	-	-	74	-38.73	0-360	100	V
6	6.097	27.82	PK	35.2	-26.8	.5	36.72	-	-	74	-37.28	0-360	100	V

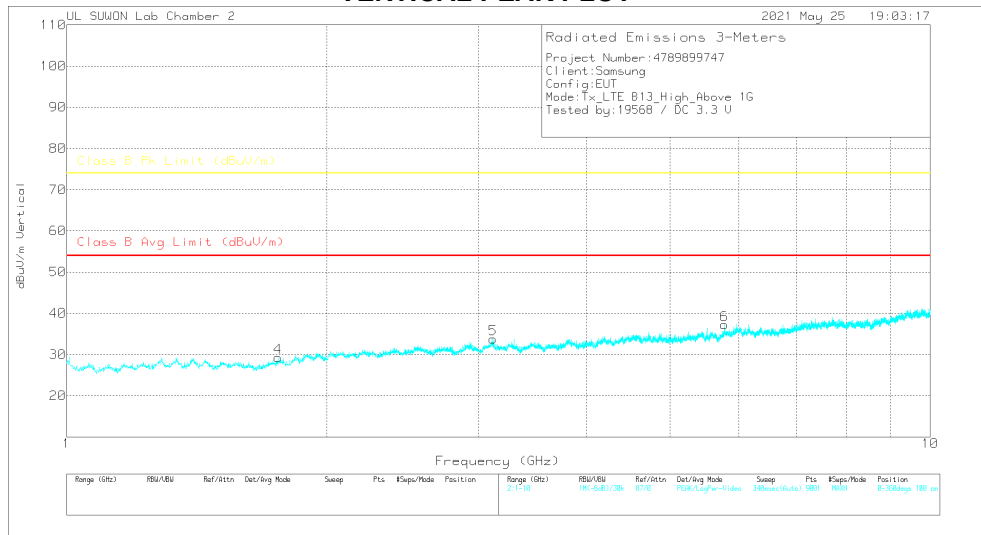
PK – Peak Detector

HIGH CHANNEL(753.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

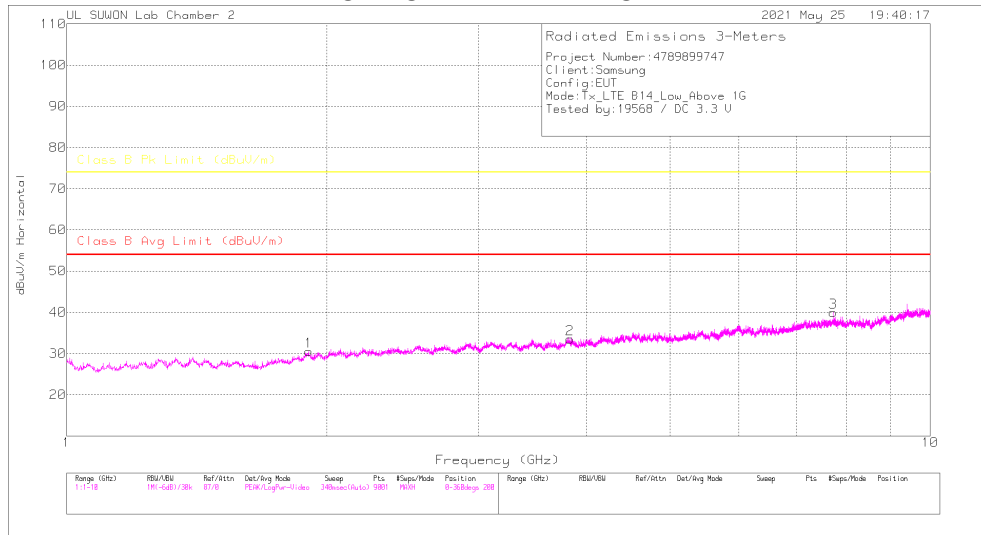
Marker	Frequency (GHz)	Meter Reading (dBu)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading (dBu/m)	Class B Avg Limit (dBu/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.757	30.16	PK		-29.3	-31.1	29.06	-	-	74	-44.94	0-360	200	H
2	3.094	29.68	PK		32.9	-29.8	33.48	-	-	74	-40.52	0-360	200	H
3	6.02	28.61	PK		35.2	-27	37.31	-	-	74	-36.69	0-360	200	H
4	1.756	30.38	PK		29.3	-31.1	29.28	-	-	74	-44.72	0-360	200	V
5	3.116	29.63	PK		32.9	-29.5	33.73	-	-	74	-40.27	0-360	100	V
6	5.78	28.86	PK		34.8	-26.9	37.26	-	-	74	-36.74	0-360	200	V

PK – Peak Detector

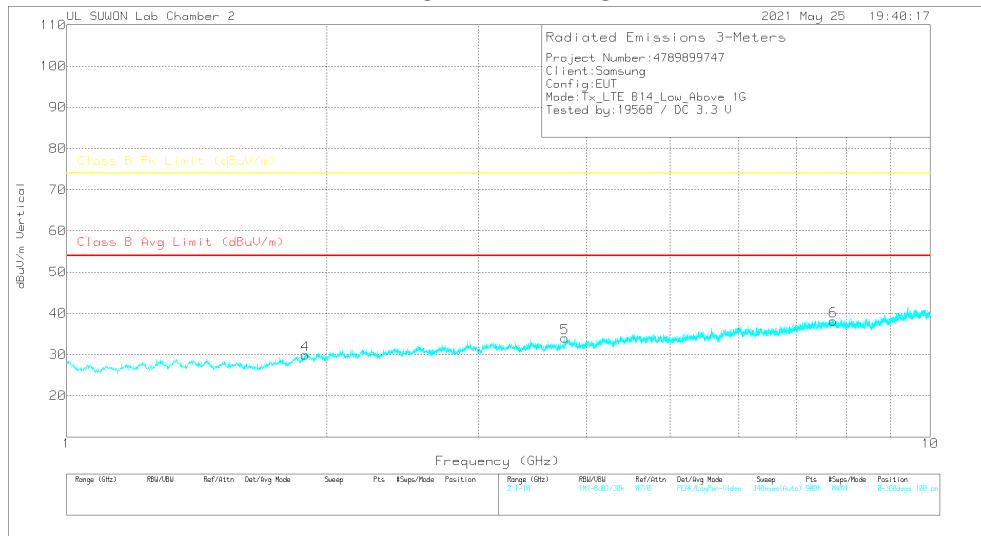
7.5. Above 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

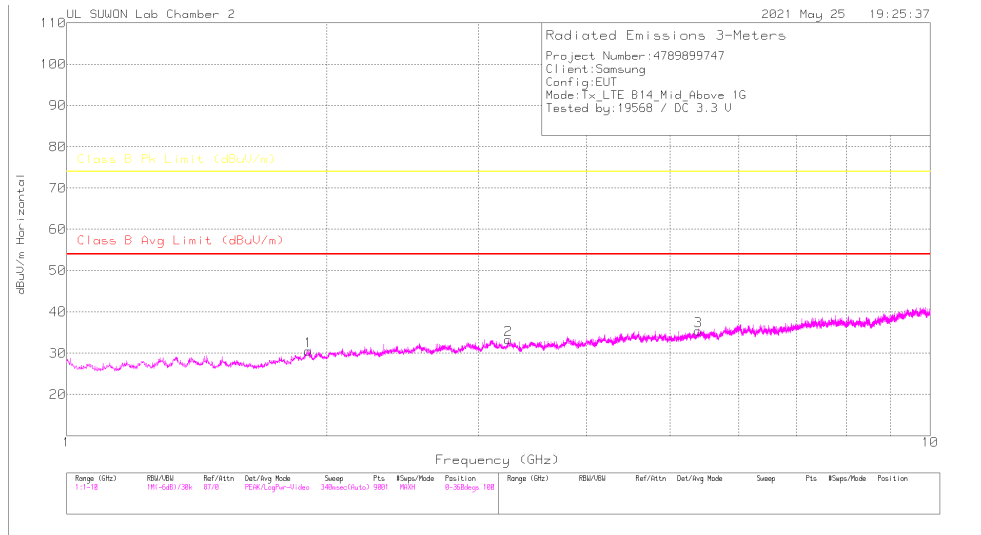
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_H[P][dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.906	30.04	PK		-30.9	.6	30.54	-	-	74	-43.46	0-360	100	H
2	3.827	28.27	PK		-28.8	.6	33.47	-	-	74	-40.53	0-360	100	H
3	7.718	27.19	PK		-23.8	.6	39.99	-	-	74	-34.01	0-360	100	H
4	1.889	29.47	PK		-31	.7	29.87	-	-	74	-44.13	0-360	100	V
5	3.777	29.26	PK		-29.2	.6	33.96	-	-	74	-40.04	0-360	200	V
6	7.725	25.41	PK		-23.9	.6	38.11	-	-	74	-35.89	0-360	100	V

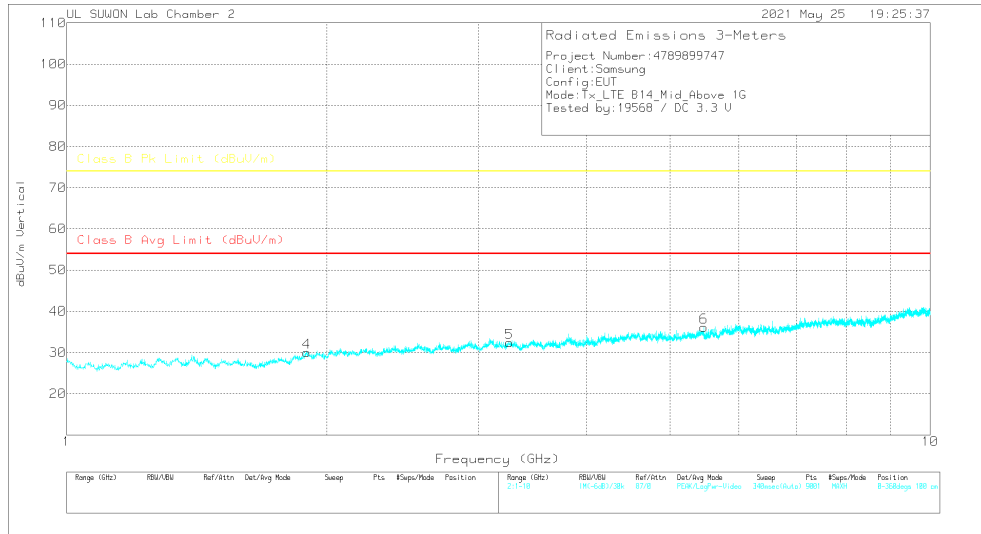
PK – Peak Detector

MID CHANNEL(763 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

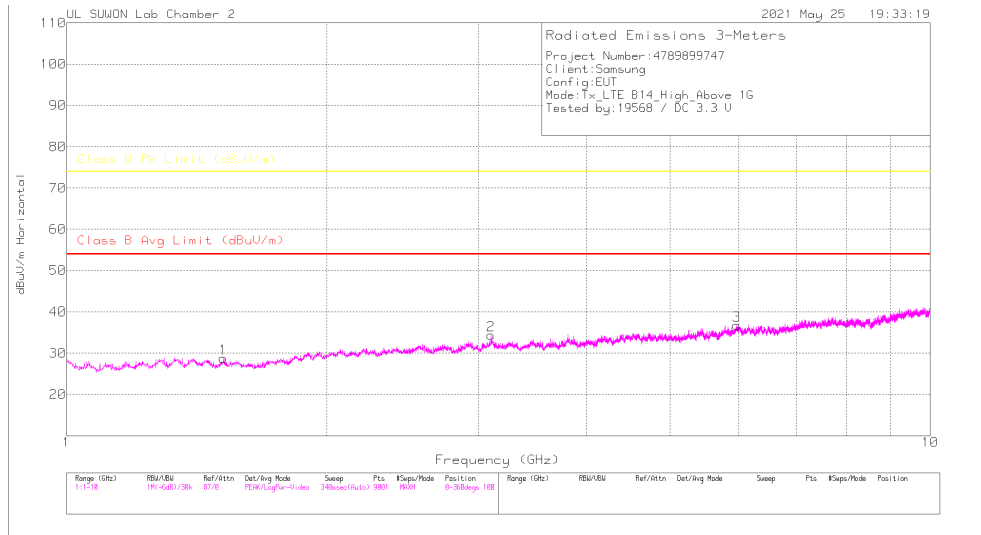
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	1.905	30.03	PK		-30.9	.6	30.53	-	-	74	-43.47	0-360	100	H
2	3.249	29	PK		-29.4	.7	33.3	-	-	74	-40.7	0-360	100	H
3	5.39	28.33	PK		-27.9	.5	35.43	-	-	74	-38.57	0-360	200	H
4	1.897	29.63	PK		-30.9	.6	30.03	-	-	74	-43.97	0-360	200	V
5	3.256	28.39	PK		-29.6	.7	32.39	-	-	74	-41.61	0-360	100	V
6	5.466	28.58	PK		-27.6	.5	36.08	-	-	74	-37.92	0-360	100	V

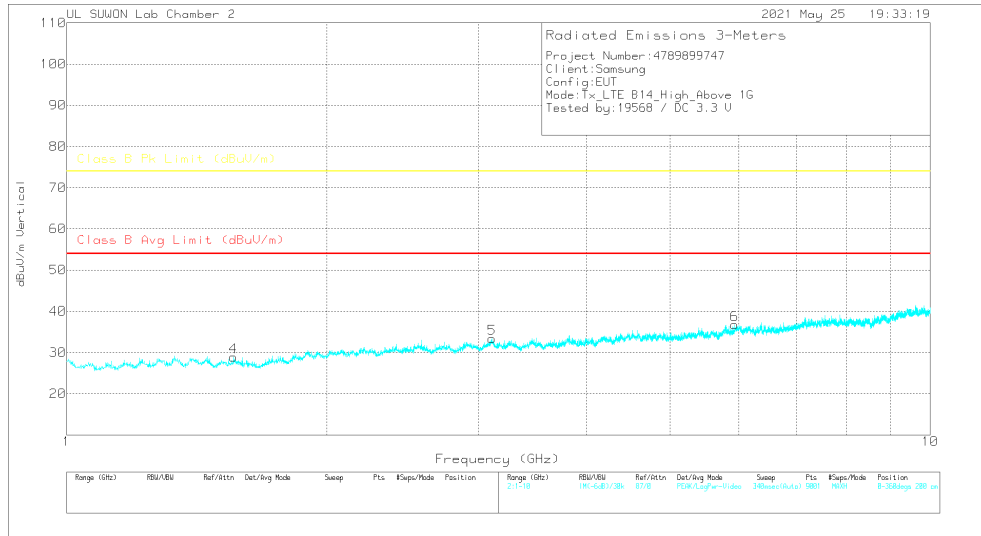
PK – Peak Detector

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

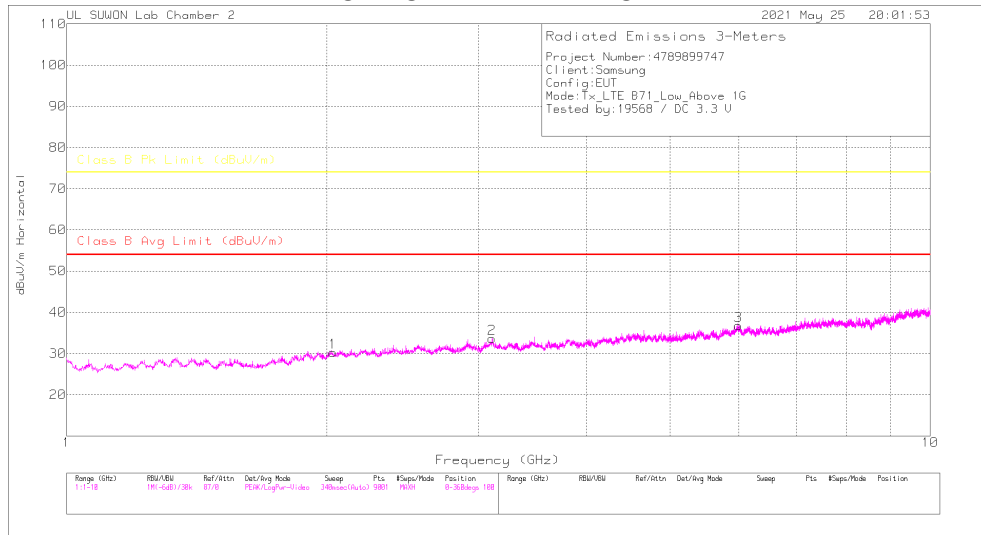
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_1HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avr(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.518	30.52	PK		-31.5	.8	28.72	-	-	74	-45.28	0-360	200	H
2	3.1	30.32	PK		-29.5	.7	34.42	-	-	74	-39.58	0-360	100	H
3	5.97	28.32	PK		-27.2	.5	36.72	-	-	74	-37.28	0-360	100	H
4	1.56	30.75	PK		-31.3	.7	28.85	-	-	74	-45.15	0-360	200	V
5	3.11	29.11	PK		-29.3	.7	33.41	-	-	74	-40.59	0-360	200	V
6	5.938	28.24	PK		-27.1	.5	36.74	-	-	74	-37.26	0-360	200	V

PK – Peak Detector

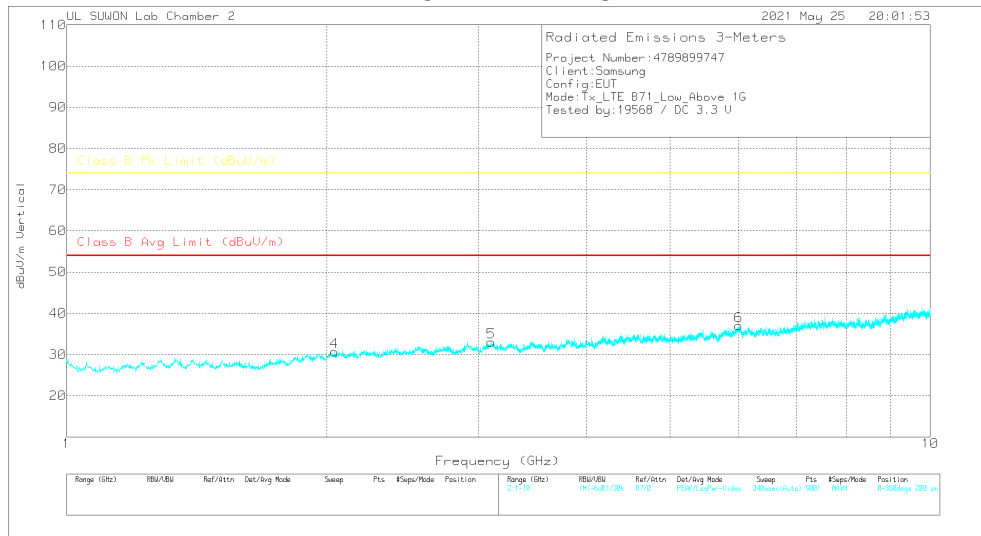
7.6. Above 1 GHz in the LTE Band 71

LOW CHANNEL(627 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

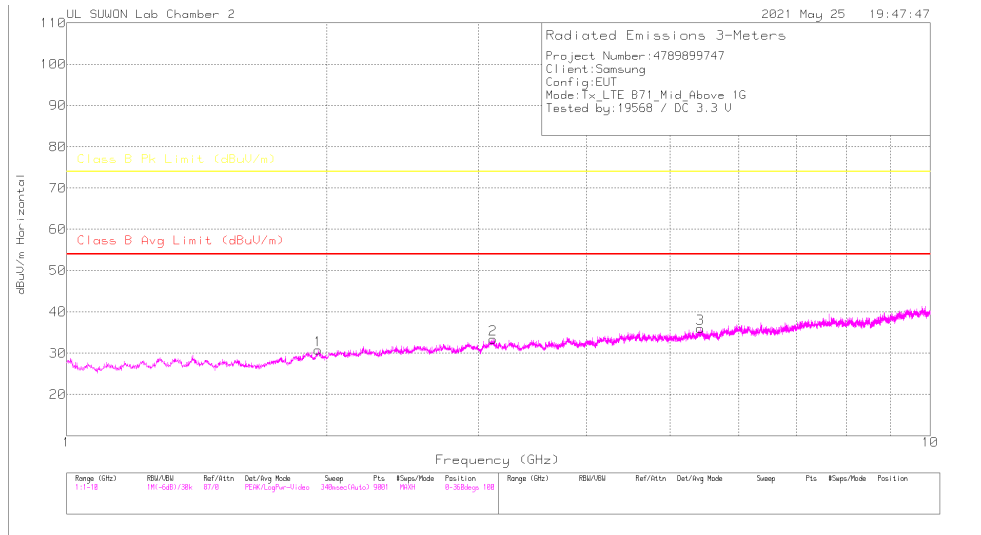
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HPR[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.033	29.18	PK	31.4	-30.9	.6	30.28	-	-	74	-43.72	0-360	200	H
2	3.11	29.37	PK	32.9	-29.3	.7	33.67	-	-	74	-40.33	0-360	200	H
3	5.996	28.23	PK	35.2	-27.2	.5	36.73	-	-	74	-37.27	0-360	200	H
4	2.042	29.36	PK	31.4	-30.7	.6	30.66	-	-	74	-43.34	0-360	100	V
5	3.102	28.92	PK	32.9	-29.5	.7	33.02	-	-	74	-40.98	0-360	100	V
6	6.003	28.4	PK	35.2	-27.1	.5	37	-	-	74	-37	0-360	100	V

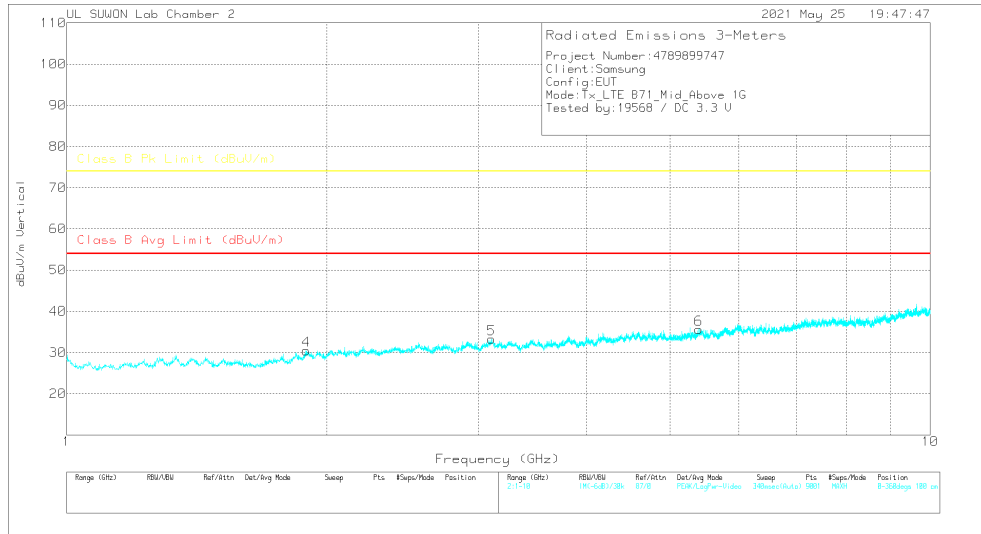
PK - Peak Detector

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

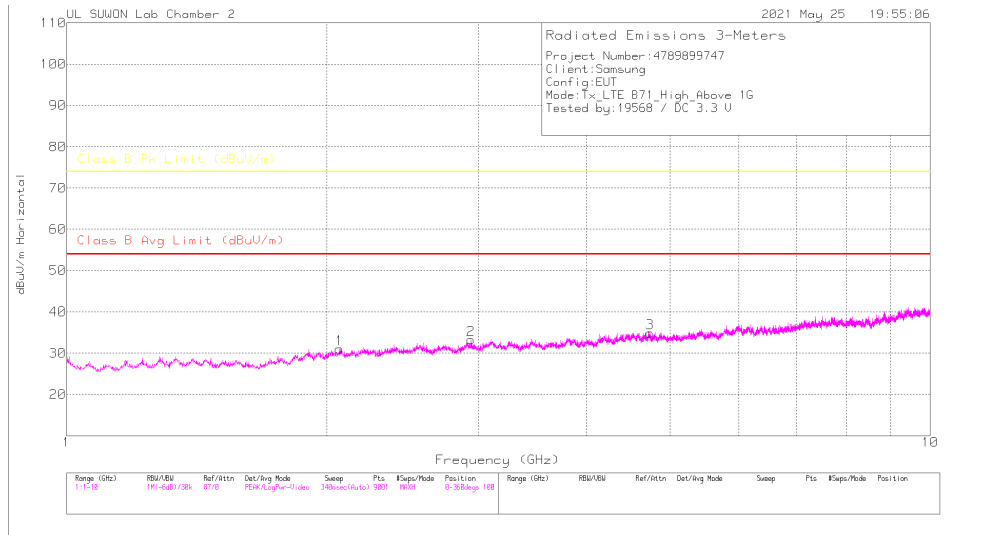
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	1.955	30.1	PK	31	-30.9	.6	30.8	-	-	74	-43.2	0-360	200	H
2	3.115	29.22	PK	32.9	-29.4	.7	33.42	-	-	74	-40.58	0-360	200	H
3	5.417	28.56	PK	34.6	-27.7	.5	35.96	-	-	74	-38.04	0-360	100	H
4	1.893	30.06	PK	30.7	-31	.7	30.46	-	-	74	-43.54	0-360	100	V
5	3.103	29.23	PK	32.9	-29.6	.7	33.23	-	-	74	-40.77	0-360	200	V
6	5.398	28.42	PK	34.5	-27.8	.5	35.62	-	-	74	-38.38	0-360	100	V

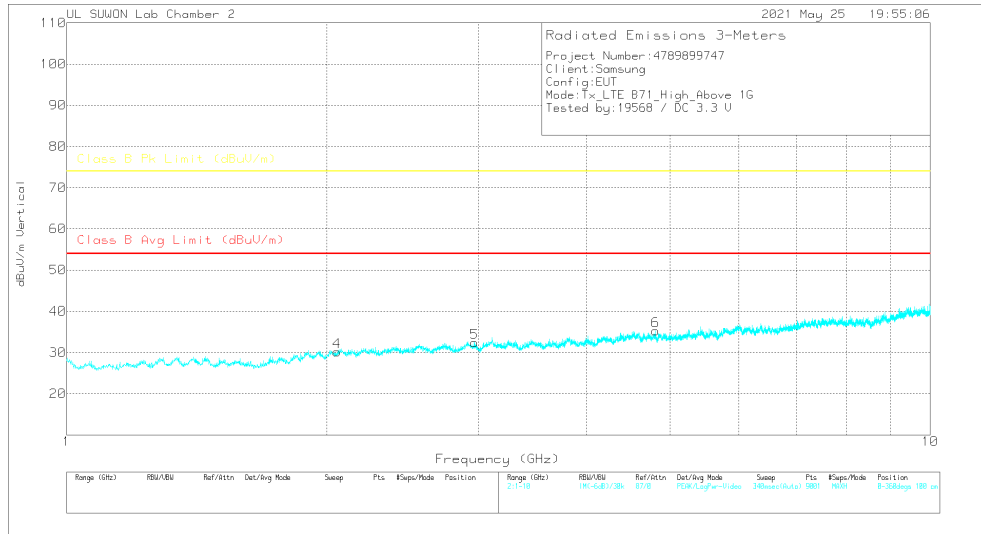
PK – Peak Detector

HIGH CHANNEL(642 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

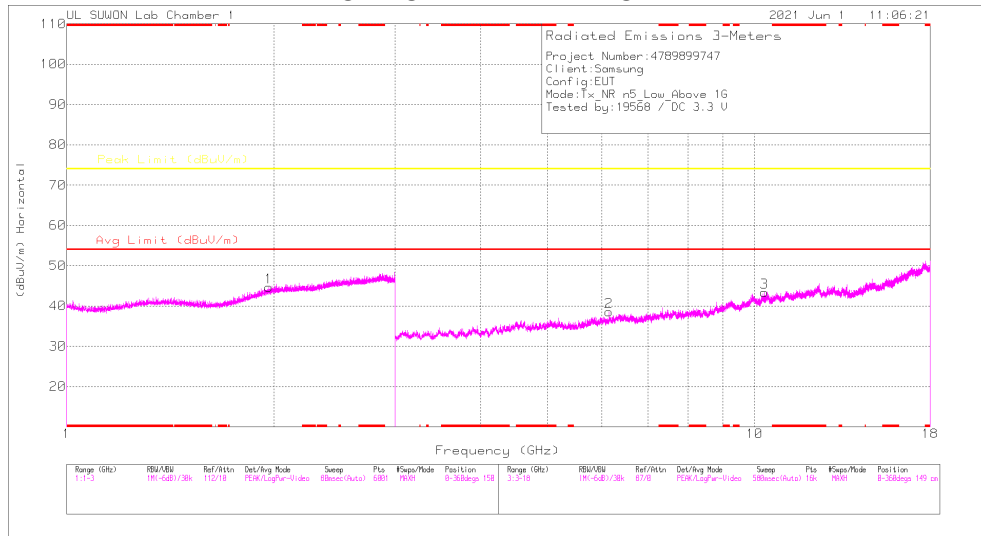
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.069	29.59	PK	31.5	-30.7	.6	30.99	-	-	74	-43.01	0-360	100	H
2	2.937	30.26	PK	32.4	-30.1	.7	33.26	-	-	74	-40.74	0-360	100	H
3	4.736	28.7	PK	34.1	-28.4	.5	34.9	-	-	74	-39.1	0-360	100	H
4	2.055	28.75	PK	31.4	-30.6	.6	30.15	-	-	74	-43.85	0-360	100	V
5	2.969	29.05	PK	32.6	-30	.7	32.35	-	-	74	-41.65	0-360	200	V
6	4.808	28.36	PK	34.1	-27.7	.5	35.26	-	-	74	-38.74	0-360	200	V

PK – Peak Detector

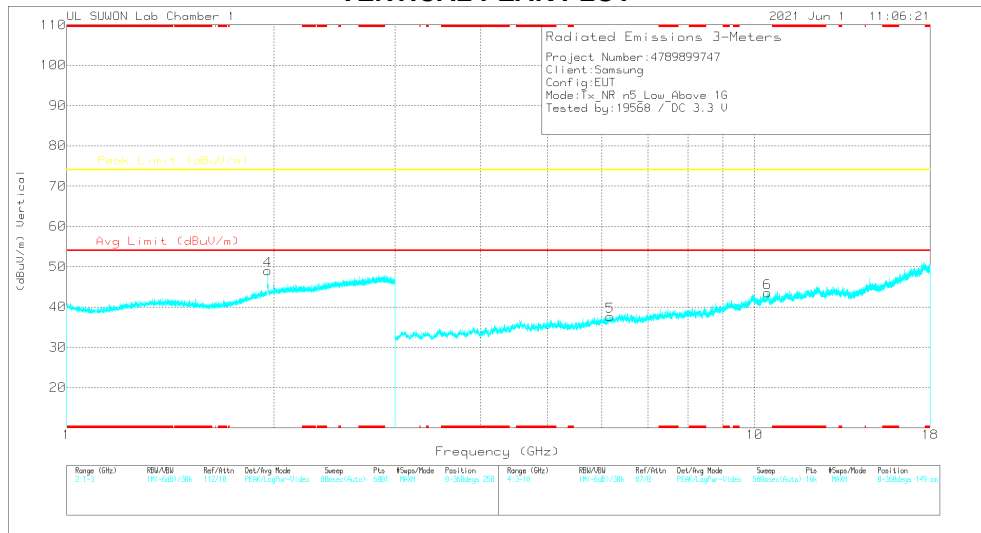
7.7. Above 1 GHz in the 5G NR Band 5

LOW CHANNEL(876.5MHz)

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	1.96767	39.08	PK	31.2	-26.2	.6	44.68	-	-	74	-29.32	0-360	150	H
4	1.96	43.4	PK	31.2	-26.2	.6	49	-	-	74	-25	0-360	150	V

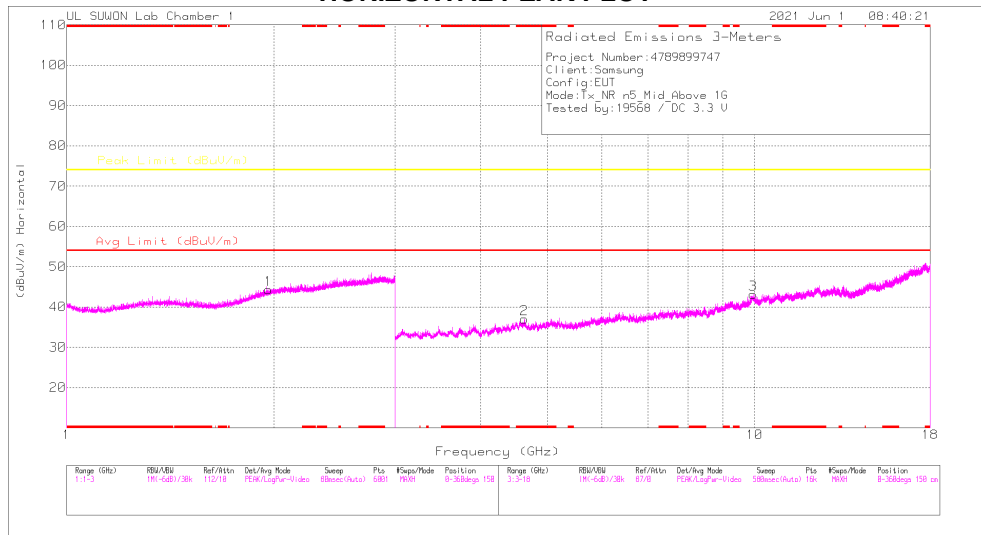
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	6.14418	32.44	PK	35.4	-29.8	.5	38.54	-	-	74	-35.46	0-360	149	H
3	10.33173	26.44	PK	37.8	-21.5	.6	43.34	-	-	74	-30.66	0-360	149	H
5	6.16199	31.24	PK	35.4	-29.5	.5	37.64	-	-	74	-36.36	0-360	149	V
6	10.44891	26.67	PK	37.8	-21.7	.7	43.47	-	-	74	-30.53	0-360	250	V

PK – Peak Detector

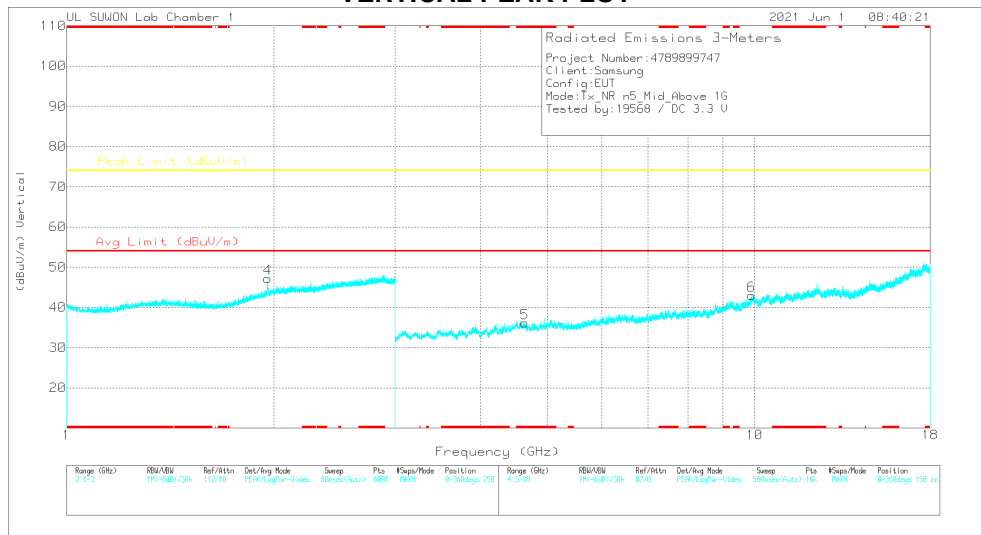
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

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	1.96267	38.8	PK		-26.3	.6	44.3	-	-	74	-29.7	0-360	250	H
4	1.96	41.61	PK		-26.2	.6	47.21	-	-	74	-26.79	0-360	150	V

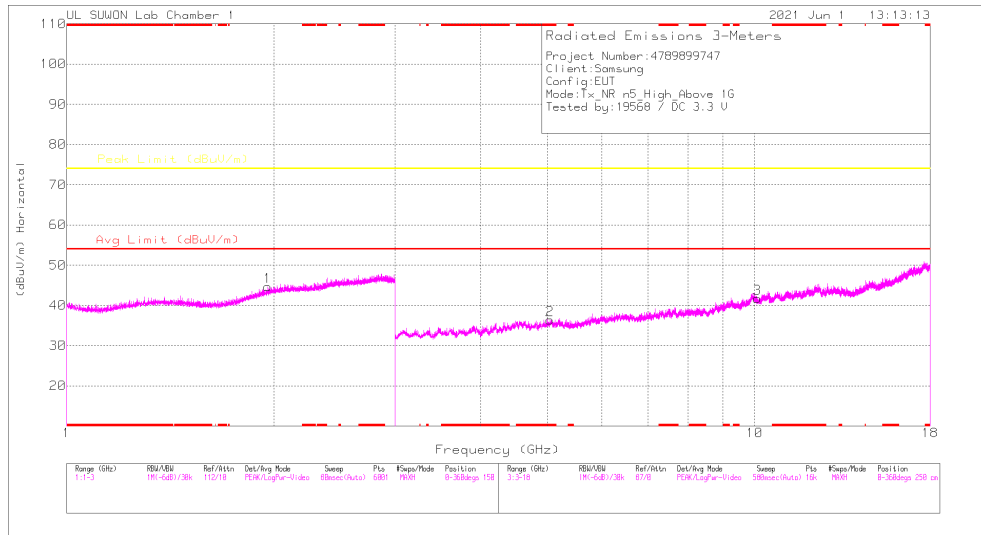
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	3GHz_HP[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.62459	33.66	PK		-31.3	.5	37.06	-	-	74	-36.94	0-360	250	H
3	9.95862	26.19	PK		-21.3	.6	43.19	-	-	74	-30.81	0-360	150	H
5	* 4.63208	32.7	PK		-31.3	.5	36.1	-	-	74	-37.9	0-360	250	V
6	9.89675	26.58	PK		-22	.7	42.98	-	-	74	-31.02	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak Detector

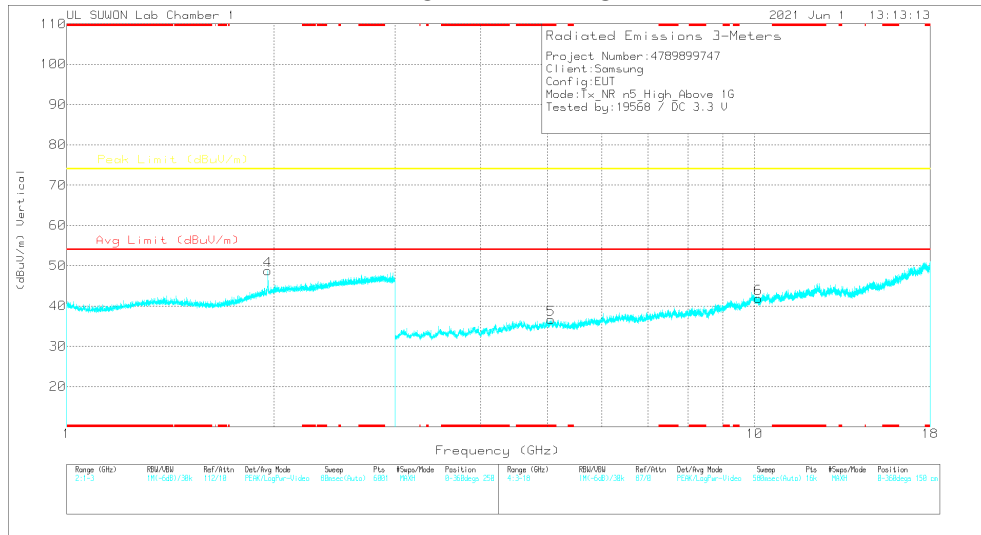
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(886.5MHz)

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	1.96	39.06	PK	31.2	-26.2	.6	44.66	-	-	74	-29.34	0-360	250	H
4	1.96	43.09	PK	31.2	-26.2	.6	48.69	-	-	74	-25.31	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
2	* 5.03893	32.7	PK	34.2	-31	.5	36.4	-	-	74	-37.6	0-360	150	H
3	10.09362	25.78	PK	37.8	-22.4	.6	41.78	-	-	74	-32.22	0-360	150	H
5	* 5.0605	32.71	PK	34.2	-30.8	.5	36.61	-	-	74	-37.39	0-360	150	V
6	10.11705	26.18	PK	37.8	-22.7	.6	41.88	-	-	74	-32.12	0-360	251	V

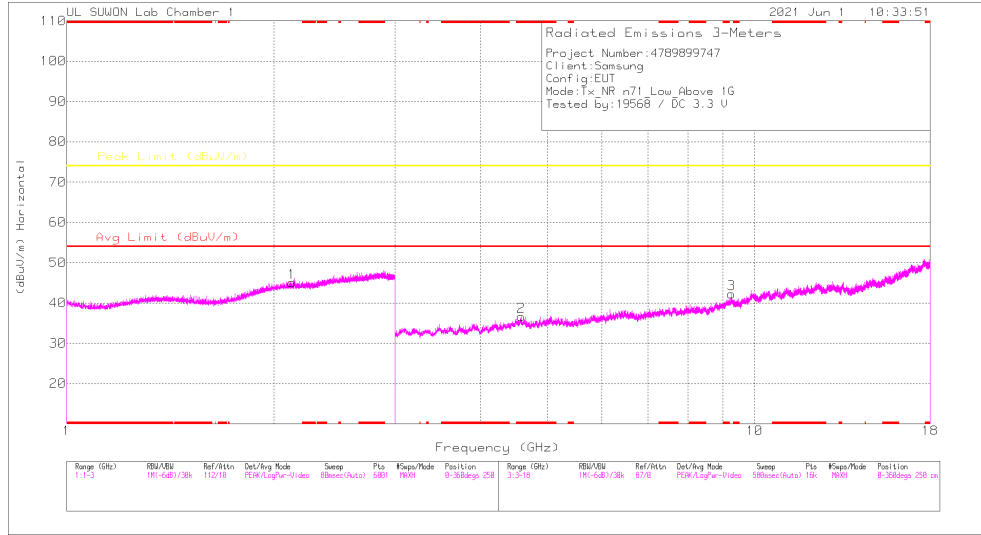
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak Detector

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

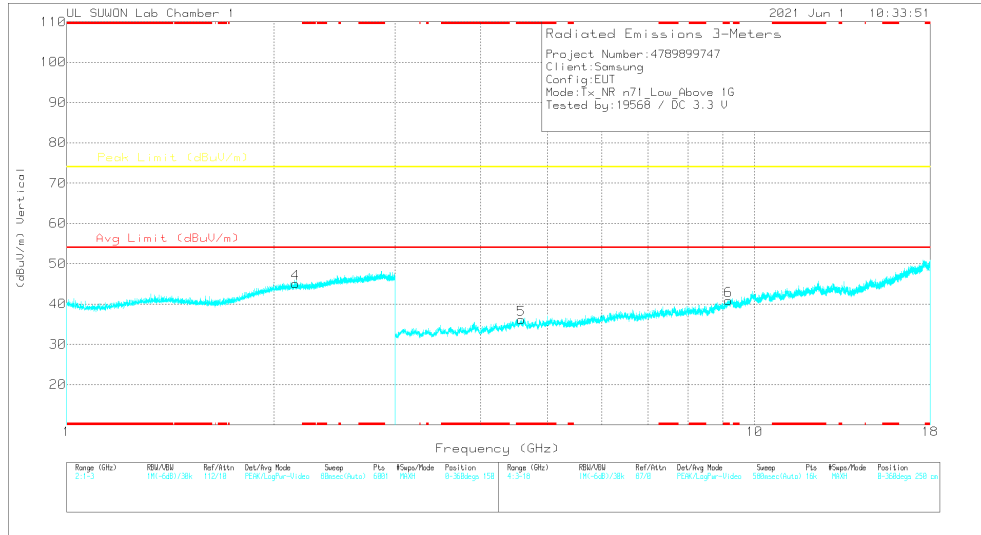
7.8. Above 1 GHz in the 5G NR Band 71

LOW CHANNEL(627 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

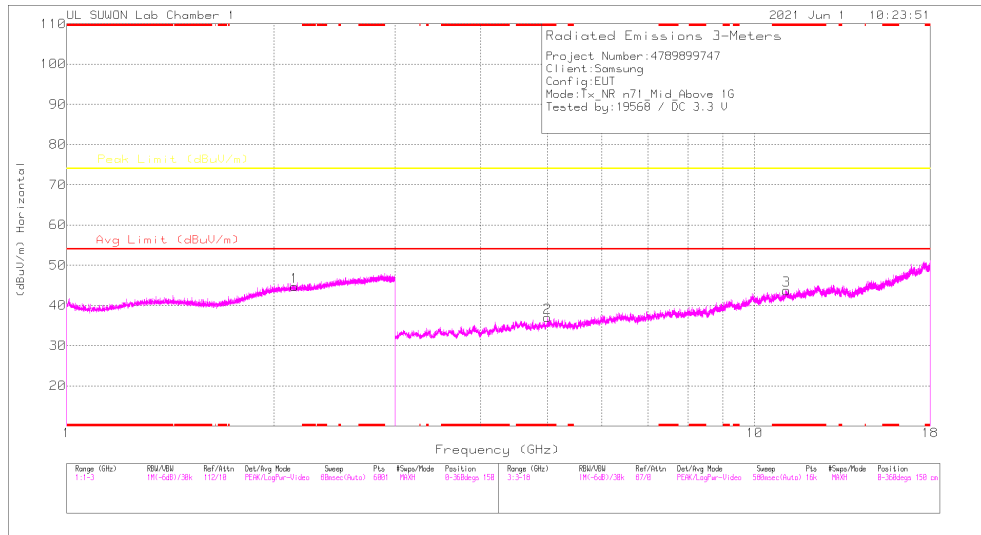
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.12533	38.69	PK	31.6	-25.9	.7	45.09	-	-	74	-28.91	0-360	150	H
4	2.152	38.75	PK	31.5	-25.9	.7	45.05	-	-	74	-28.95	0-360	250	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
2	* 4.57865	33.27	PK	34.2	-31.3	.5	36.67	-	-	74	-37.33	0-360	149	H
3	9.25554	27.74	PK	36.7	-22.9	.7	42.24	-	-	74	-31.76	0-360	149	H
5	* 4.58146	32.68	PK	34.2	-31.3	.5	36.08	-	-	74	-37.92	0-360	149	V
6	* 9.1693	26.65	PK	36.6	-23.1	.7	40.85	-	-	74	-33.15	0-360	149	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak Detector

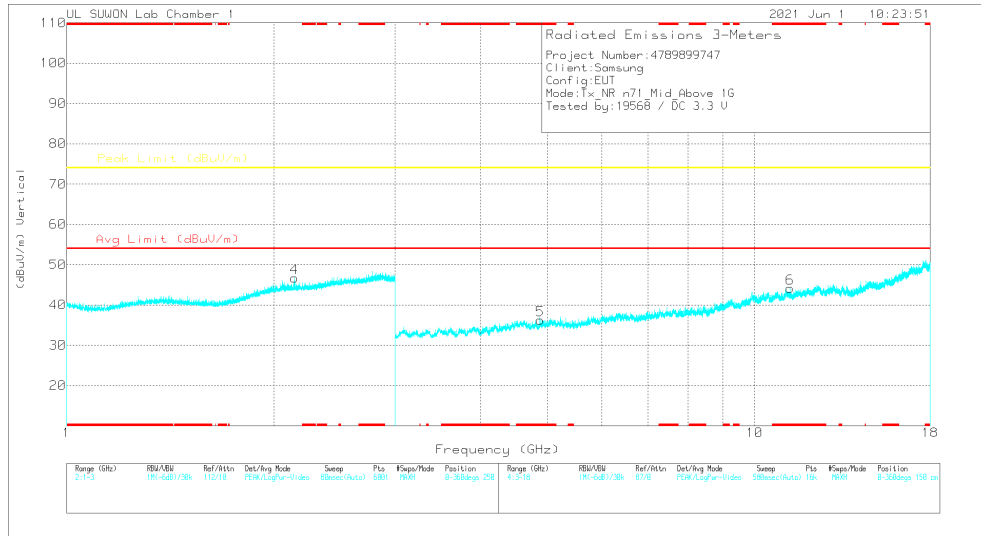
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

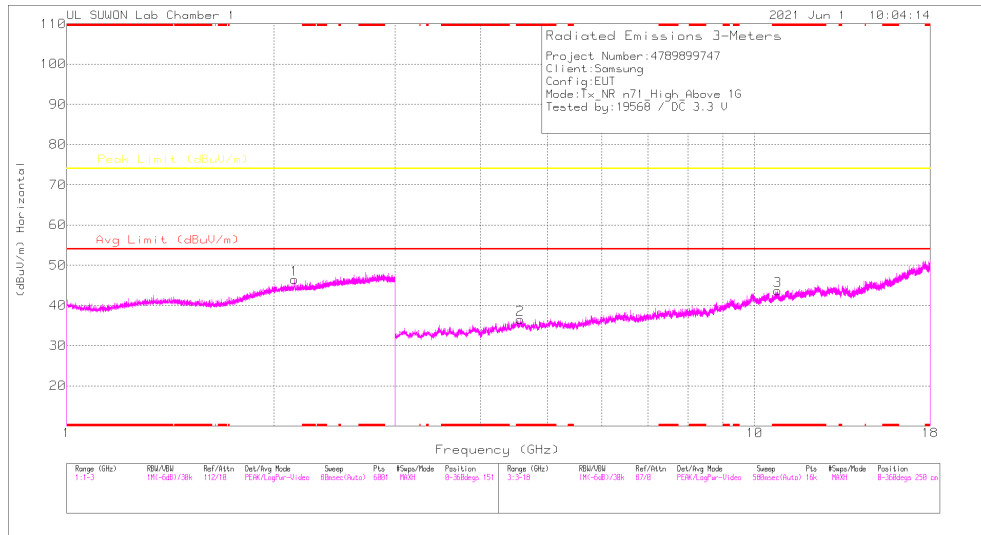
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.14433	38.3	PK	31.6	-25.9	.7	44.7	-	-	74	-29.3	0-360	150	H
4	2.145	40.32	PK	31.6	-25.9	.7	46.72	-	-	74	-27.28	0-360	250	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
2	* 4.99487	33.66	PK	34.1	-31.3	.5	36.96	-	-	74	-37.04	0-360	150	H
3	* 11.12011	26.31	PK	38.3	-21.6	.7	43.71	-	-	74	-30.29	0-360	250	H
5	* 4.87957	33.06	PK	34.1	-31.4	.5	36.26	-	-	74	-37.74	0-360	150	V
6	* 11.26917	27.11	PK	38.4	-22.1	.8	44.21	-	-	74	-29.79	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak Detector

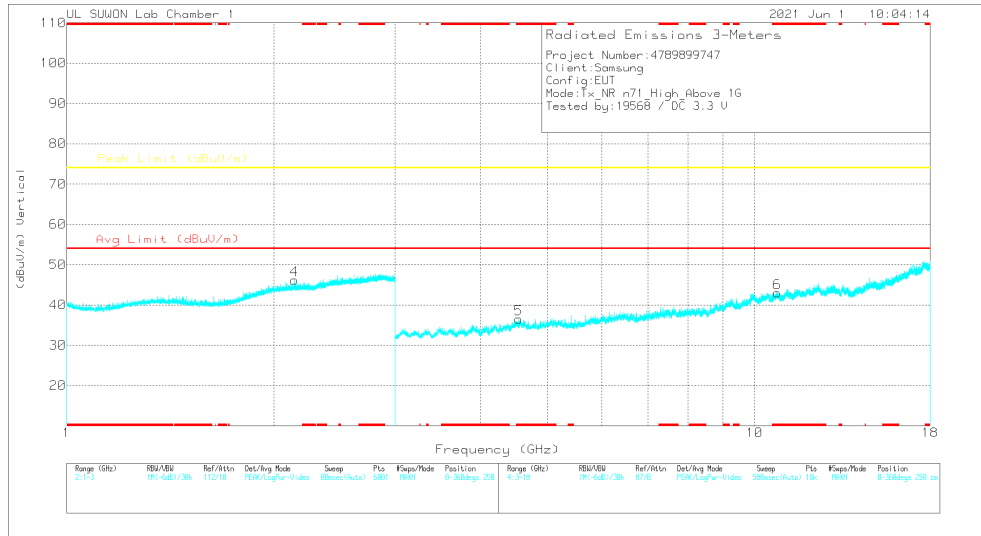
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(642 MHz)

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	2.14467	40.07	PK	31.6	-25.9	.7	46.47	-	-	74	-27.53	0-360	250	H
4	2.145	39.79	PK	31.6	-25.9	.7	46.19	-	-	74	-27.81	0-360	149	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
2	* 4.56084	33.12	PK	34.2	-31.3	.5	36.52	-	-	74	-37.48	0-360	149	H
3	* 10.80138	25.99	PK	38.1	-21.1	.7	43.69	-	-	74	-30.31	0-360	149	H
5	* 4.54022	33.2	PK	34.2	-31.4	.5	36.5	-	-	74	-37.5	0-360	250	V
6	* 10.79482	25.36	PK	38.1	-21.1	.7	43.06	-	-	74	-30.94	0-360	149	V

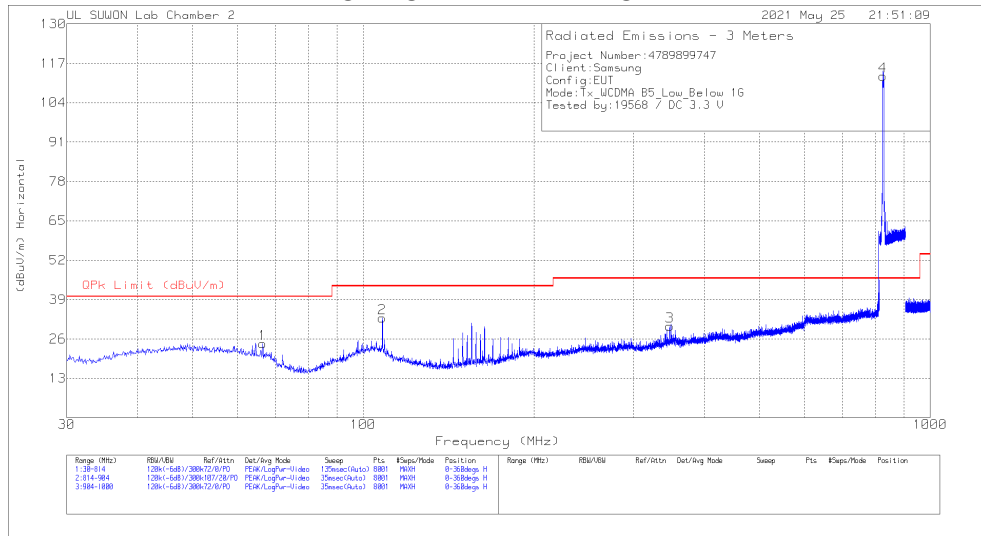
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak Detector

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

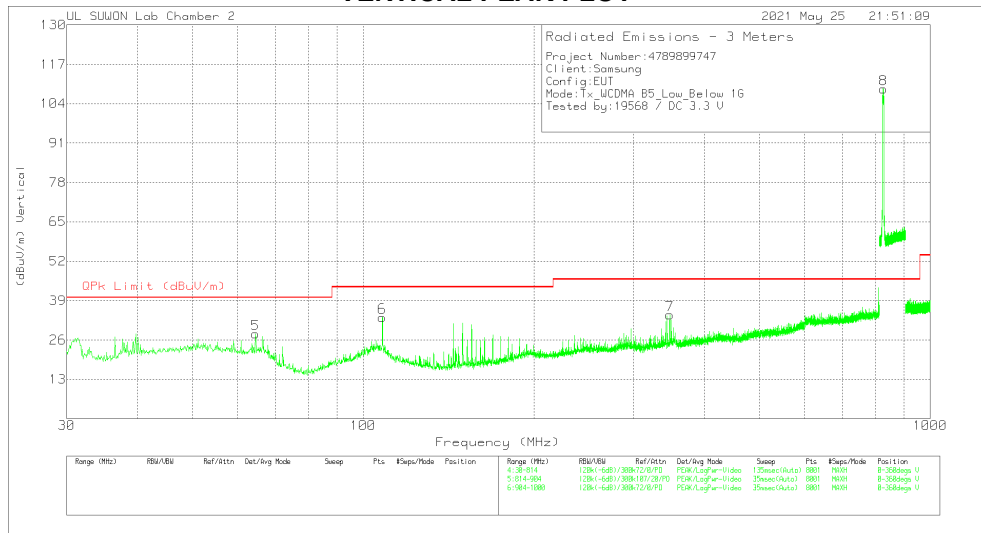
7.9. Below 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

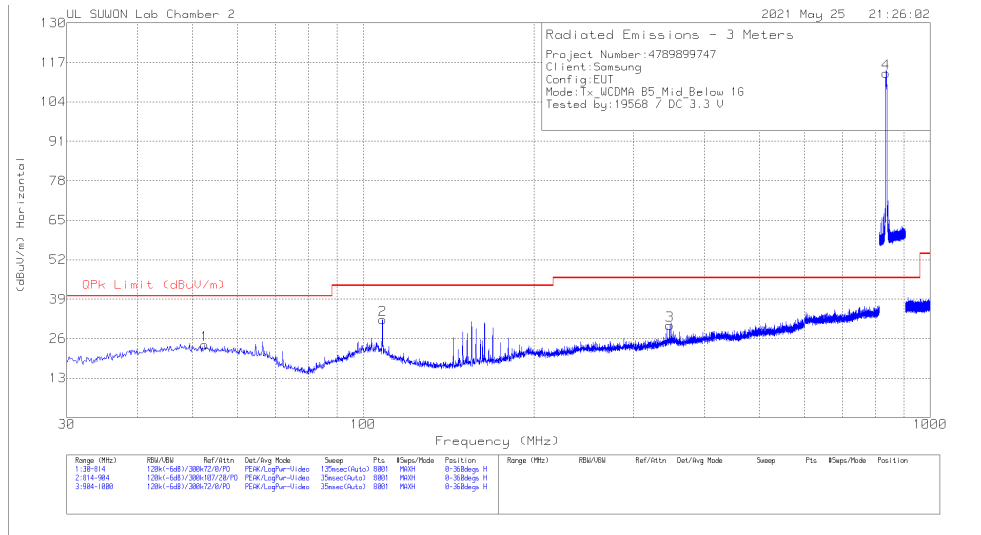
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.456	7.03	Pk	16.6	.9	24.53	40	-15.47	0-360	400	H
2	108.106	14.59	Pk	17.3	1.1	32.99	43.52	-10.53	0-360	300	H
3	347.324	7.46	Pk	20.8	1.9	30.16	46.02	-15.86	0-360	100	H
4	825.7338	82.92	Pk	26.7	3.2	112.82	46.02	66.8	0-360	100	H
5	64.594	9.78	PK	17.2	1	27.98	40	-12.02	0-360	100	V
6	108.106	15.13	Pk	17.3	1.1	33.53	43.52	-9.99	0-360	100	V
7	347.324	11.54	Pk	20.8	1.9	34.24	46.02	-11.78	0-360	100	V
8	826.96	78.94	Pk	26.7	3.3	108.94	46.02	62.92	0-360	200	V

Pk - Peak detector

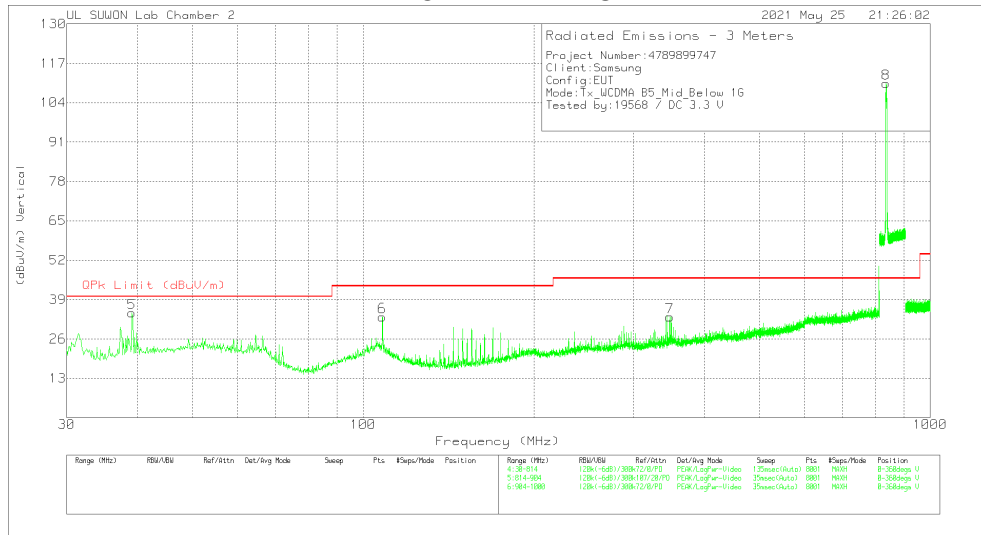
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

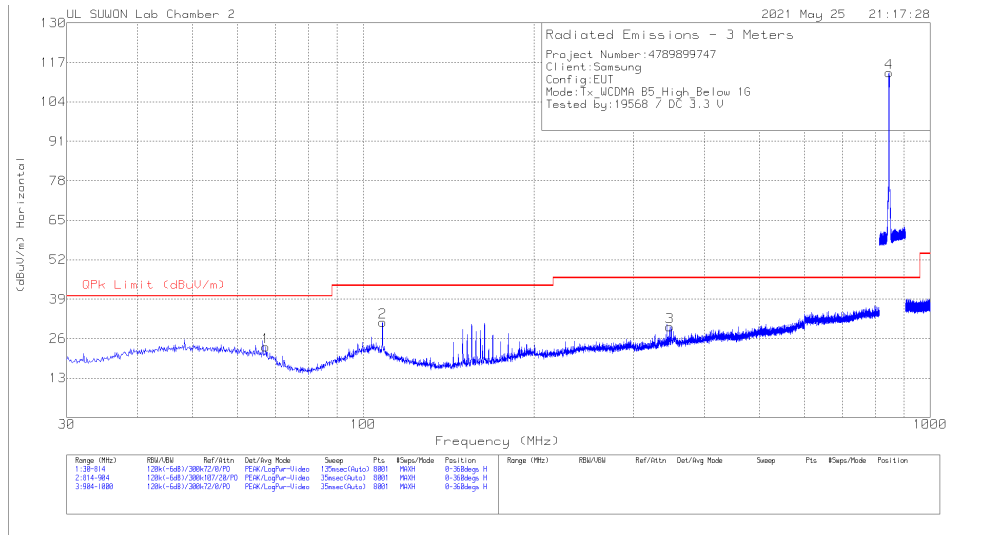
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.54	3.64	Pk	19.6	.7	23.94	40	-16.06	0-360	200	H
2	108.204	13.88	Pk	17.3	1.1	32.28	43.52	-11.24	0-360	300	H
3	347.324	7.73	Pk	20.8	1.9	30.43	46.02	-15.59	0-360	200	H
4	835.3413	83.4	Pk	26.9	3.2	113.5	46.02	67.48	0-360	100	H
5	39.114	15.59	Pk	18.3	.7	34.59	40	-5.41	0-360	100	V
6	108.106	14.96	Pk	17.3	1.1	33.36	43.52	-10.16	0-360	100	V
7	347.324	10.59	Pk	20.8	1.9	33.29	46.02	-12.73	0-360	100	V
8	835.285	80.26	Pk	26.9	3.2	110.36	46.02	64.34	0-360	100	V

Pk - Peak detector

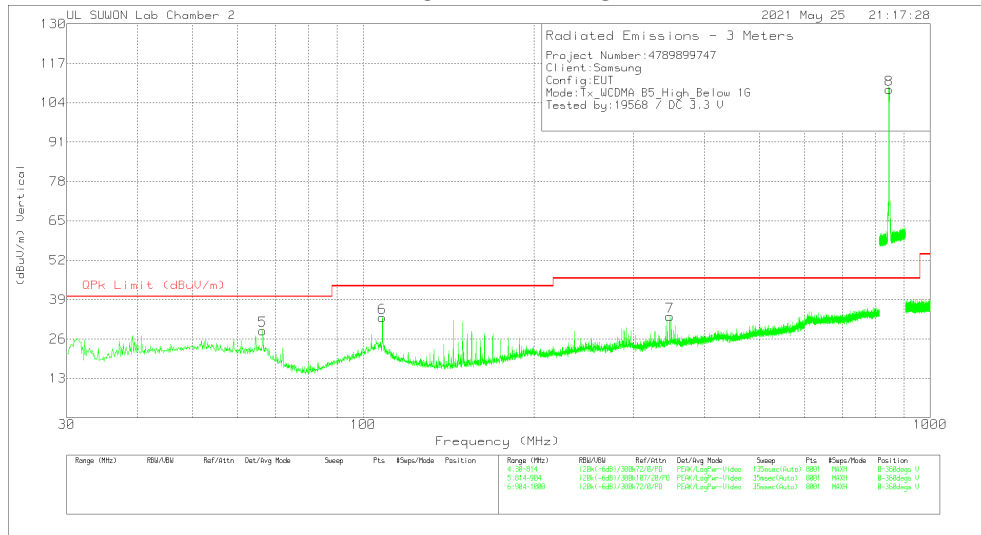
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	67.338	5.97	Pk	16.3	1	23.27	40	-16.73	0-360	200	H
2	108.204	12.95	Pk	17.3	1.1	31.35	43.52	-12.17	0-360	200	H
3	347.324	7.15	Pk	20.8	1.9	29.85	46.02	-16.17	0-360	100	H
4	846.2988	83.05	Pk	27.2	3.3	113.55	46.02	67.53	0-360	100	H
5	66.456	11.29	Pk	16.6	.9	28.79	40	-11.21	0-360	100	V
6	108.106	14.65	Pk	17.3	1.1	33.05	43.52	-10.47	0-360	100	V
7	347.324	10.79	Pk	20.8	1.9	33.49	46.02	-12.53	0-360	100	V
8	846.4563	77.83	Pk	27.2	3.3	108.33	46.02	62.31	0-360	100	V

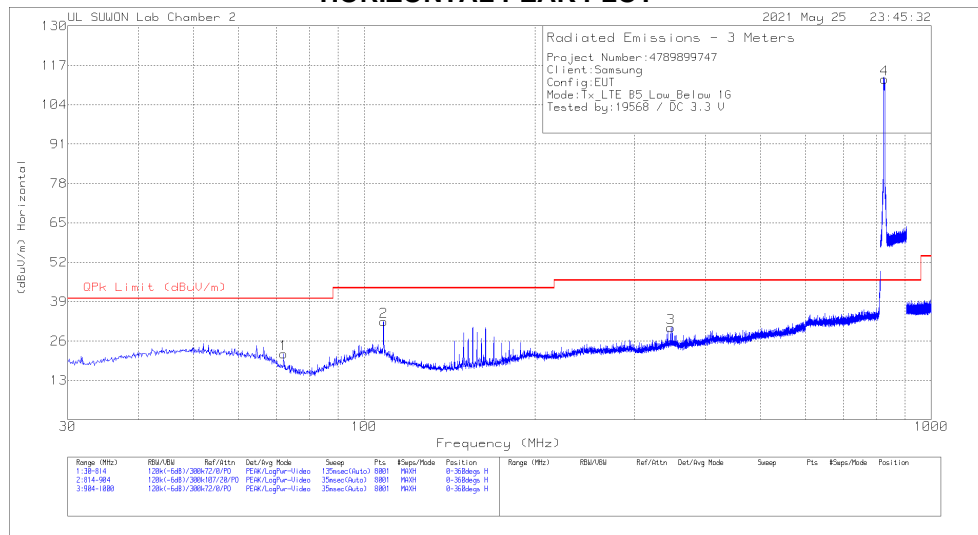
Pk - Peak detector

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

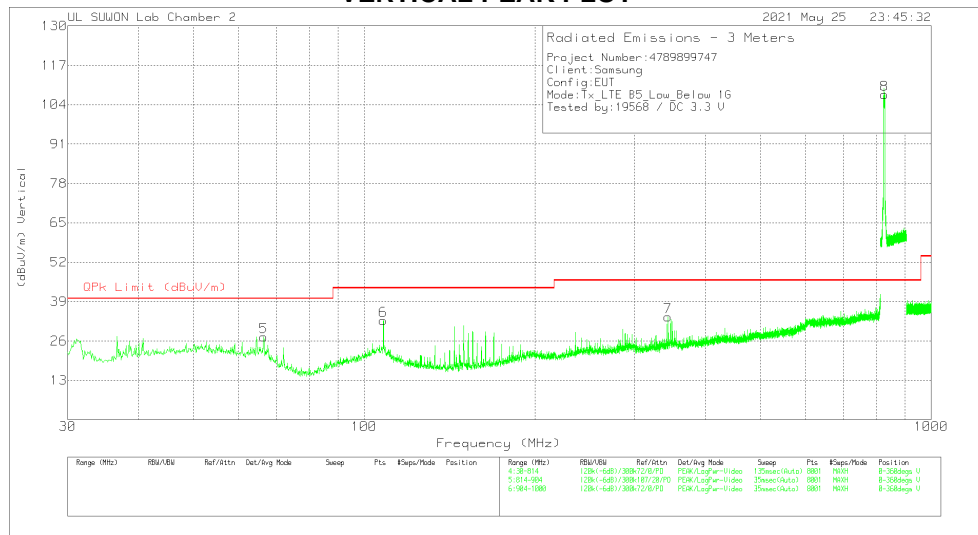
7.10. Below 1 GHz in the LTE Band 5

LOW CHANNEL(871.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

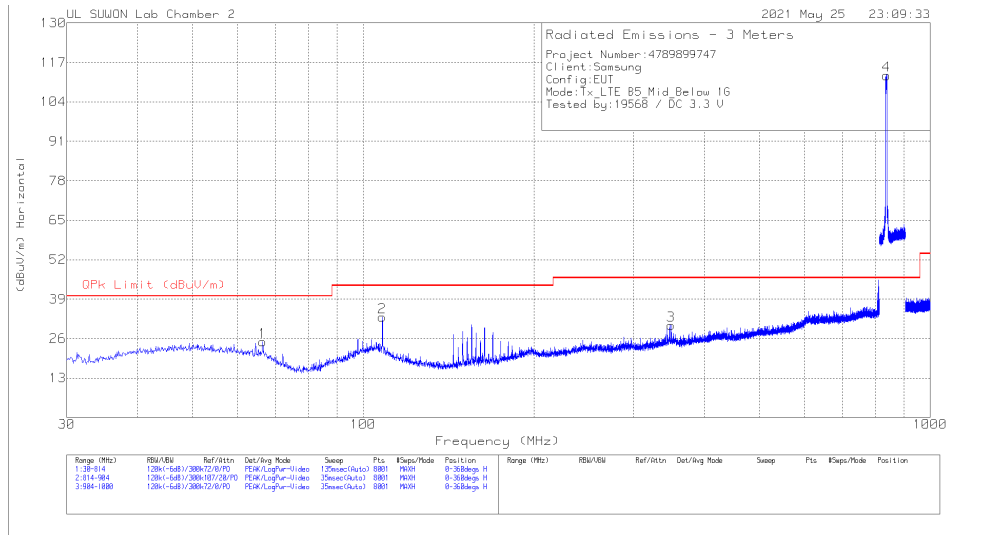
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	72.042	6.21	Pk	14.5	1	21.71	40	-18.29	0-360	300	H
2	108.204	13.96	Pk	17.3	1.1	32.36	43.52	-11.16	0-360	300	H
3	347.324	7.7	Pk	20.8	1.9	30.4	46.02	-15.62	0-360	100	H
4	826.5663	82.35	Pk	26.7	3.3	112.35	46.02	66.33	0-360	100	H
5	66.456	9.81	Pk	16.6	.9	27.31	40	-12.69	0-360	100	V
6	108.106	14.34	Pk	17.3	1.1	32.74	43.52	-10.78	0-360	100	V
7	343.6	11.32	Pk	20.6	2.1	34.02	46.02	-12	0-360	100	V
8	827.1963	77.42	Pk	26.7	3.2	107.32	46.02	61.3	0-360	100	V

Pk - Peak detector

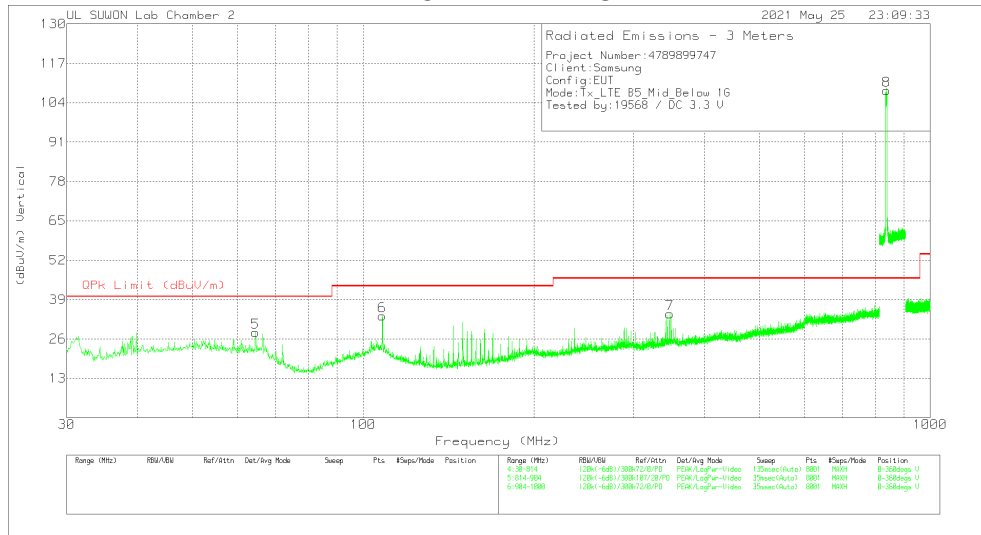
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

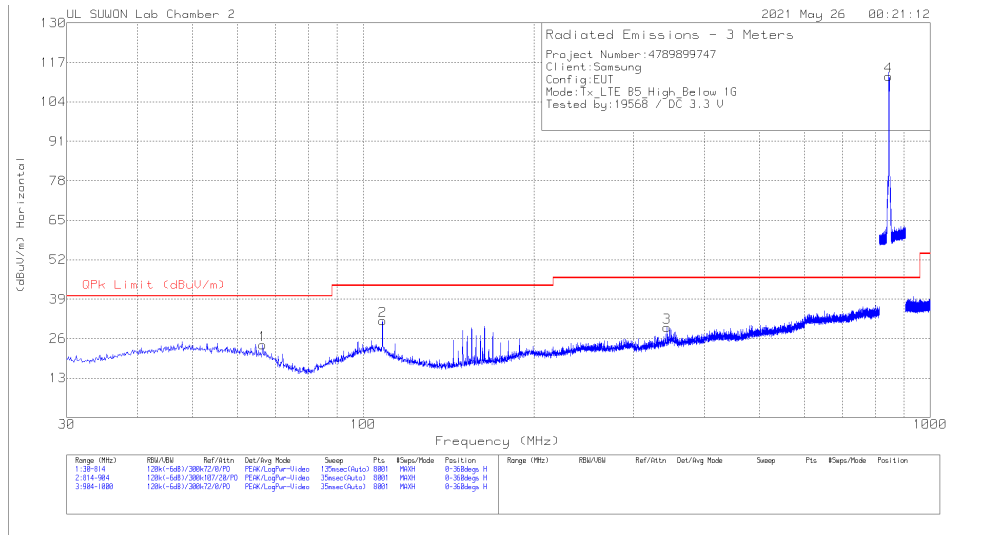
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.456	7.55	Pk	16.6	.9	25.05	40	-14.95	0-360	200	H
2	108.106	14.75	Pk	17.3	1.1	33.15	43.52	-10.37	0-360	300	H
3	349.186	7.23	Pk	21	2.1	30.33	46.02	-15.69	0-360	200	H
4	837.5013	82.48	Pk	27	3.2	112.68	46.02	66.66	0-360	100	H
5	64.594	9.92	Pk	17.2	1	28.12	40	-11.88	0-360	100	V
6	108.106	15.15	Pk	17.3	1.1	33.55	43.52	-9.97	0-360	100	V
7	347.324	11.57	Pk	20.8	1.9	34.27	46.02	-11.75	0-360	100	V
8	836.8488	77.79	Pk	26.9	3.3	107.99	46.02	61.97	0-360	100	V

Pk - Peak detector

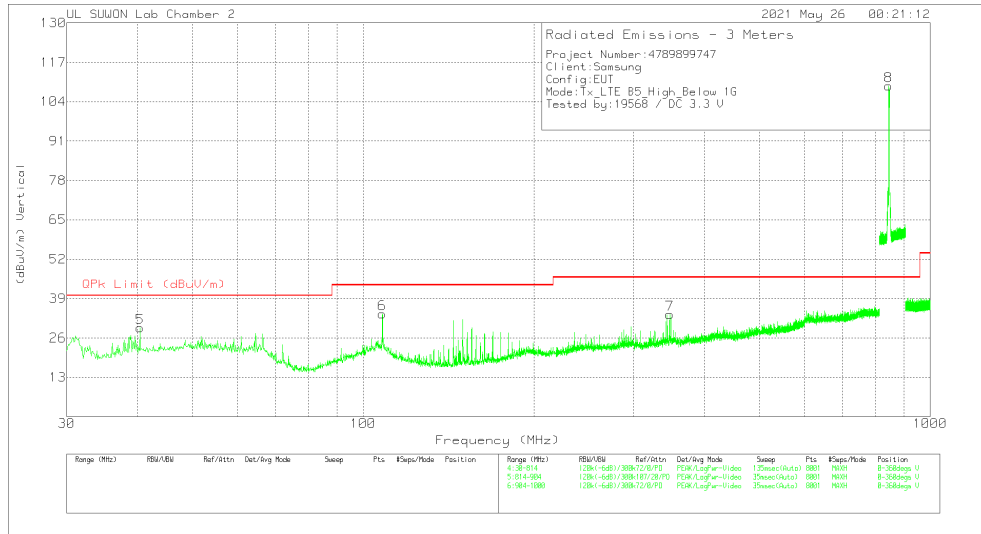
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.5MHz)

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	66.456	6.53	Pk	16.6	.9	24.03	40	-15.97	0-360	200	H
2	108.204	13.57	Pk	17.3	1.1	31.97	43.52	-11.55	0-360	300	H
3	343.6	7.09	Pk	20.6	2.1	29.79	46.02	-16.23	0-360	100	H
4	844.6338	81.94	Pk	27.2	3.3	112.44	46.02	66.42	0-360	100	H
5	40.388	9.68	Pk	18.7	1	29.38	40	-10.62	0-360	100	V
6	108.106	15.62	Pk	17.3	1.1	34.02	43.52	-9.5	0-360	100	V
7	347.324	11.09	Pk	20.8	1.9	33.79	46.02	-12.23	0-360	100	V
8	844.8813	78.76	Pk	27.2	3.3	109.26	46.02	63.24	0-360	100	V

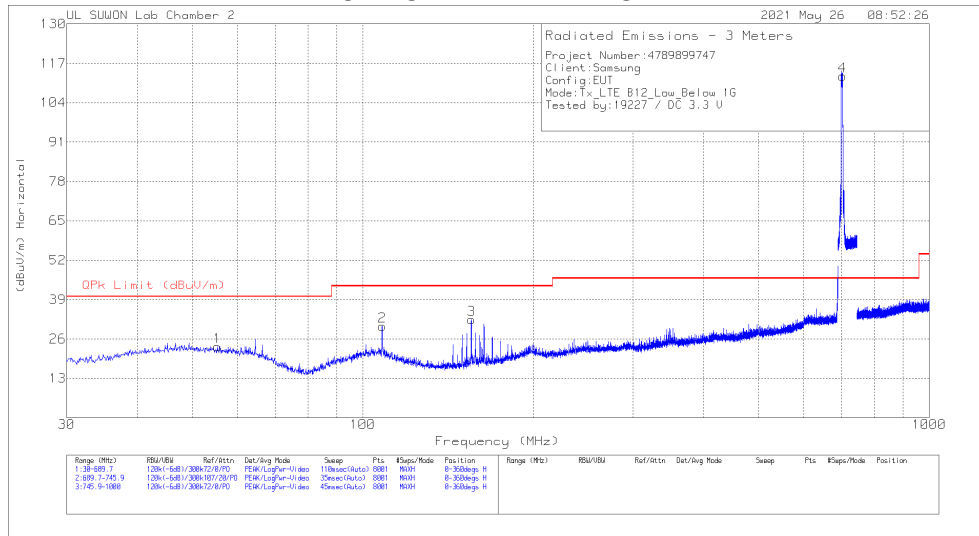
Pk - Peak detector

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

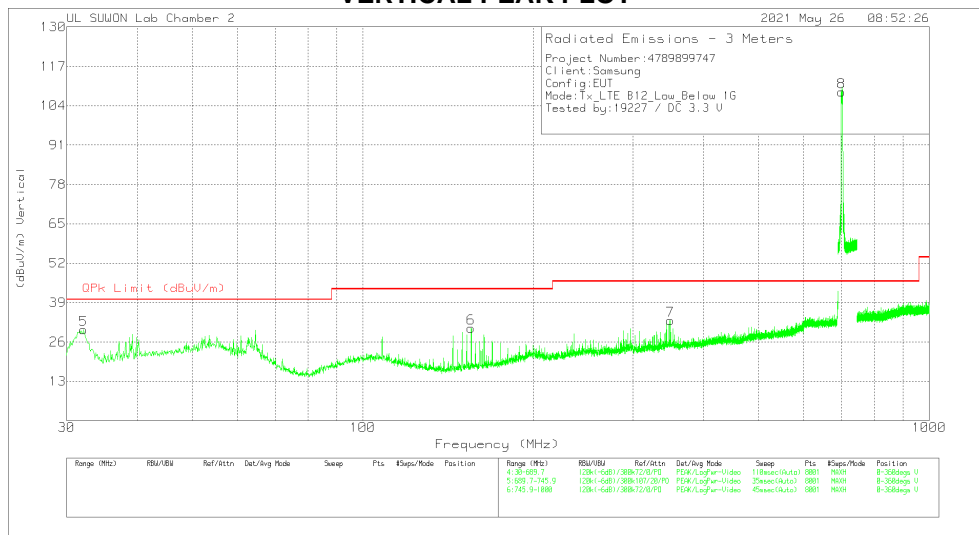
7.11. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

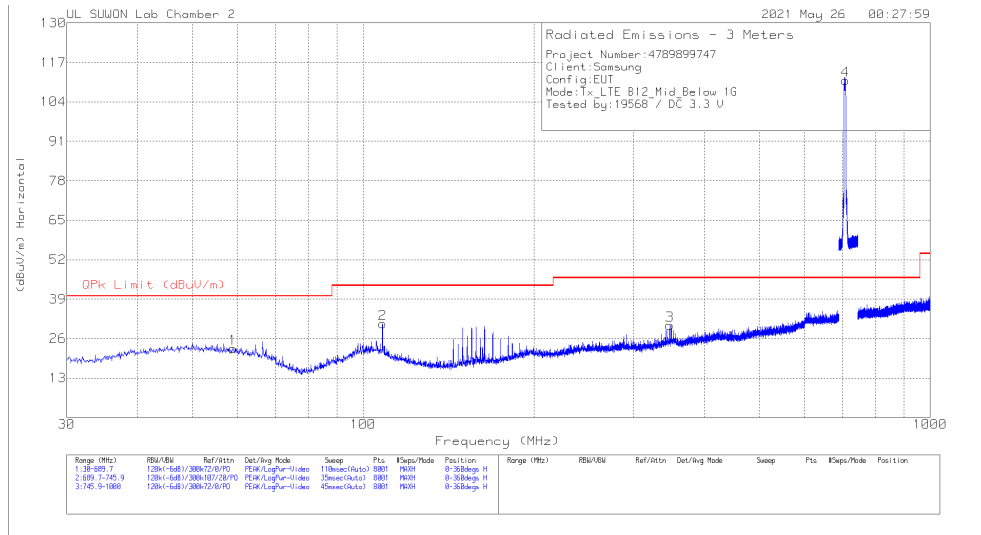
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	55.3986	3.09	Pk	19.3	1	23.39	40	-16.61	0-360	300	H
2	108.1749	11.8	Pk	17.3	1.1	30.2	43.52	-13.32	0-360	300	H
3	155.4262	17	Pk	14	1.4	32.4	43.52	-11.12	0-360	200	H
4	703.1599	84.21	Pk	25.5	3	112.71	46.02	66.69	0-360	100	H
5	32.144	13.89	PK	15.4	.7	29.99	40	-10.01	0-360	100	V
6	155.3438	15.2	Pk	14	1.4	30.6	43.52	-12.92	0-360	100	V
7	349.1318	10.18	Pk	20.9	2.1	33.18	46.02	-12.84	0-360	100	V
8	700.2797	80.26	Pk	25.4	2.9	108.56	46.02	62.54	0-360	100	V

Pk - Peak detector

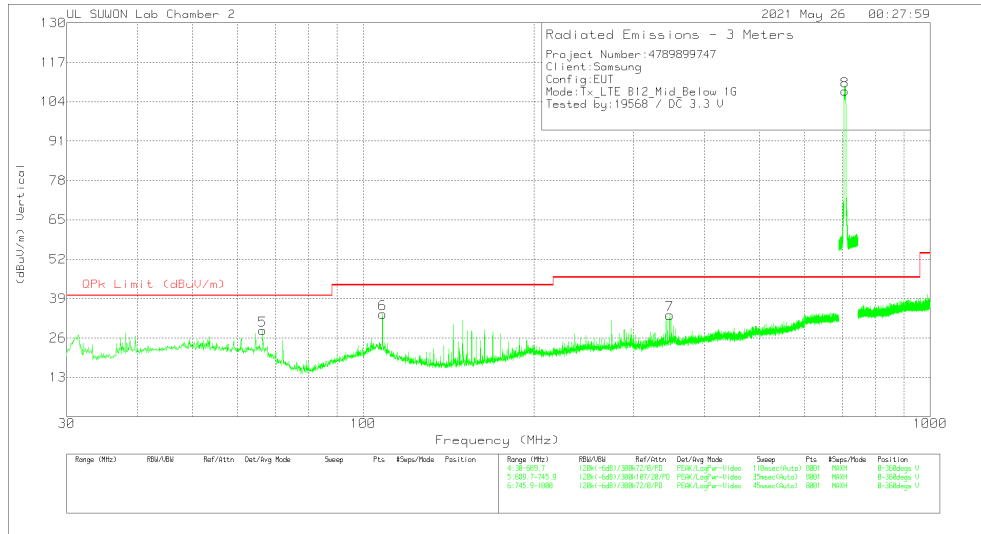
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

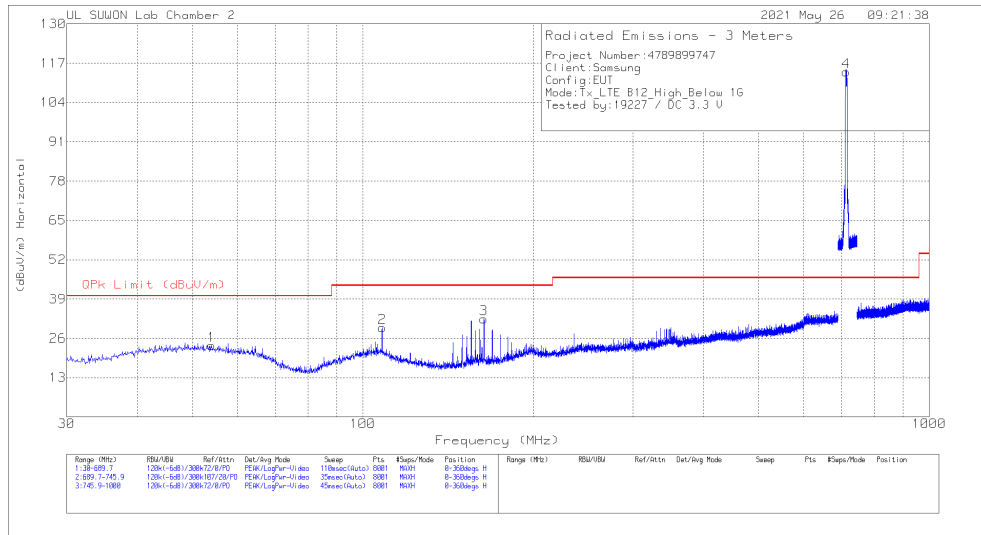
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	58.8621	3.17	Pk	18.7	.9	22.77	40	-17.23	0-360	400	H
2	108.1749	12.58	Pk	17.3	1.1	30.98	43.52	-12.54	0-360	300	H
3	347.3176	7.64	Pk	20.8	1.9	30.34	46.02	-15.68	0-360	100	H
4	708.3092	82.43	Pk	25.6	3	111.03	46.02	65.01	0-360	100	H
5	66.4486	10.97	Pk	16.6	.9	28.47	40	-11.53	0-360	100	V
6	108.1749	15.48	Pk	17.3	1.1	33.88	43.52	-9.64	0-360	100	V
7	347.3176	10.84	Pk	20.8	1.9	33.54	46.02	-12.48	0-360	100	V
8	707.7964	78.87	Pk	25.6	3	107.47	46.02	61.45	0-360	100	V

Pk - Peak detector

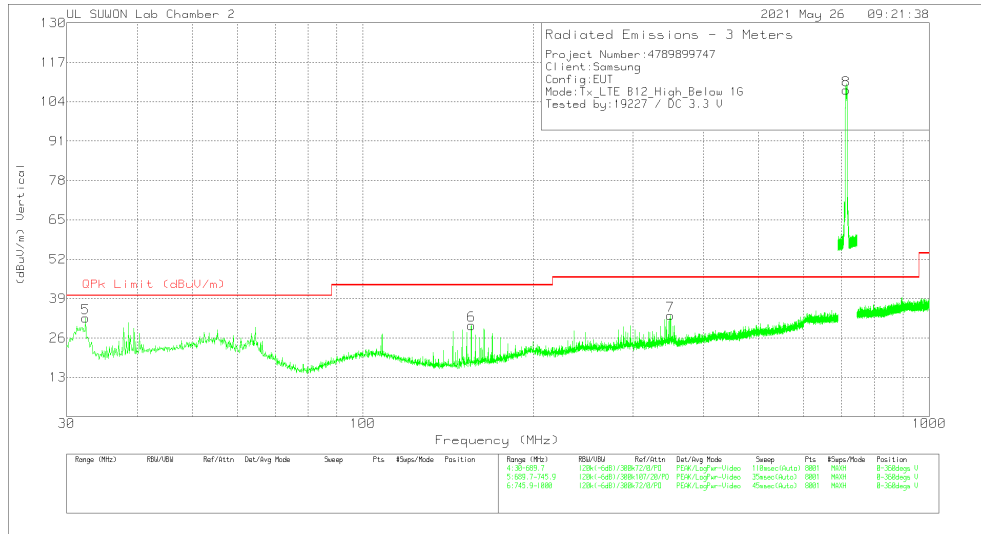
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	54.0792	3.47	Pk	19.4	.8	23.67	40	-16.33	0-360	200	H
2	108.1749	11.2	Pk	17.3	1.1	29.6	43.52	-13.92	0-360	300	H
3	163.6725	16.49	Pk	14.4	1.5	32.39	43.52	-11.13	0-360	200	H
4	713.859	85.46	Pk	25.6	3	114.06	46.02	68.04	0-360	100	H
5	32.3914	16.7	Pk	15.5	.4	32.6	40	-7.4	0-360	100	V
6	155.4262	14.75	Pk	14	1.4	30.15	43.52	-13.37	0-360	100	V
7	349.1318	10.48	Pk	20.9	2.1	33.48	46.02	-12.54	0-360	100	V
8	713.6272	79.24	Pk	25.6	3	107.84	46.02	61.82	0-360	100	V

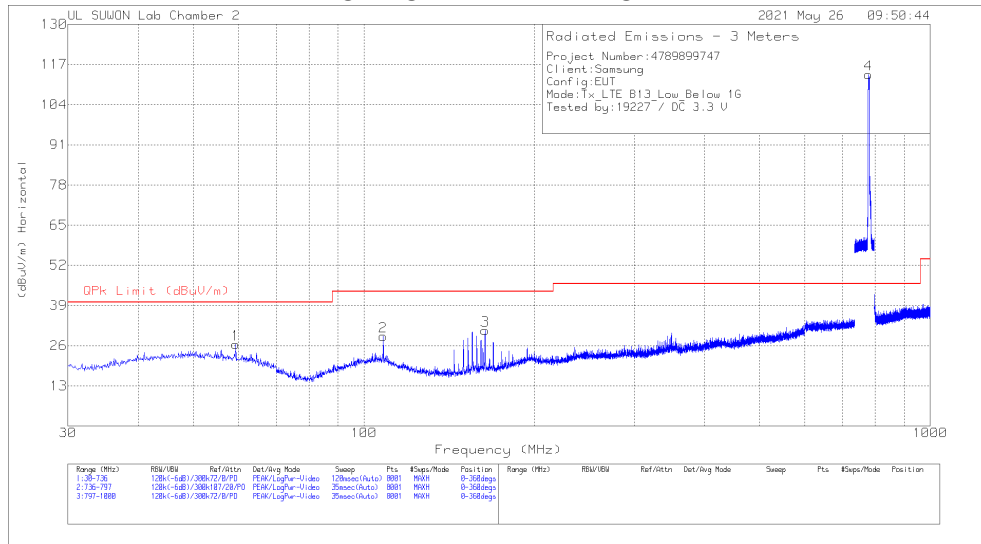
Pk - Peak detector

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

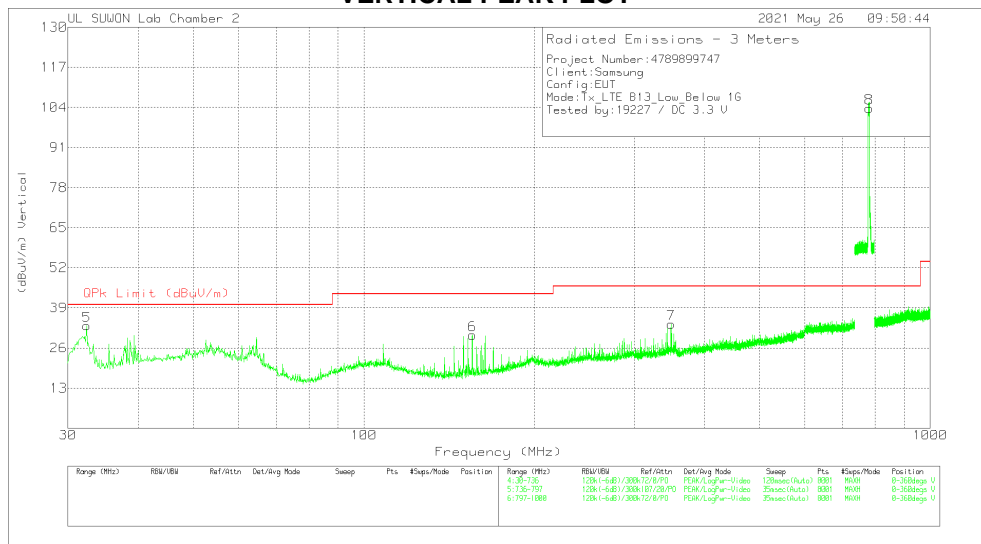
7.12. Below 1 GHz in the LTE Band 13

LOW CHANNEL(748.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

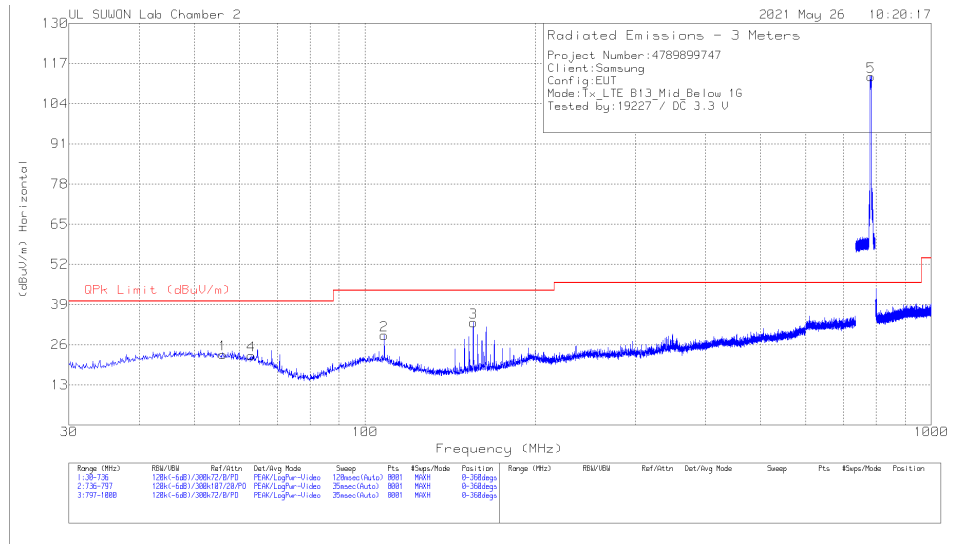
Trace Markers

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	59.3873	7.07	Pk	18.6	.8	26.47	40	-13.53	0-360	400	H
2	108.1895	10.61	Pk	17.3	1.1	29.01	43.52	-14.51	0-360	300	H
3	163.6988	15.06	Pk	14.4	1.5	30.96	43.52	-12.56	0-360	200	H
4	778.5628	84.07	Pk	26.5	3.2	113.77	46.02	67.75	0-360	100	H
5	32.3828	17.31	Pk	15.5	.4	33.21	40	-6.79	0-360	100	V
6	155.4033	14.79	Pk	14	1.4	30.19	43.52	-13.33	0-360	100	V
7	349.2003	10.6	Pk	21	2.2	33.8	46.02	-12.22	0-360	100	V
8	780.469	74.05	Pk	26.5	3.2	103.75	46.02	57.73	0-360	200	V

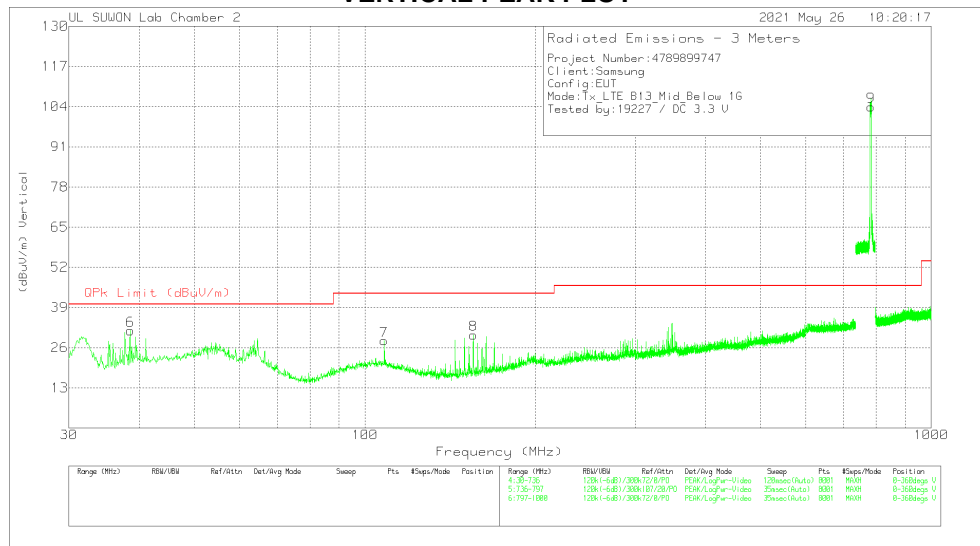
Pk - Peak detector

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

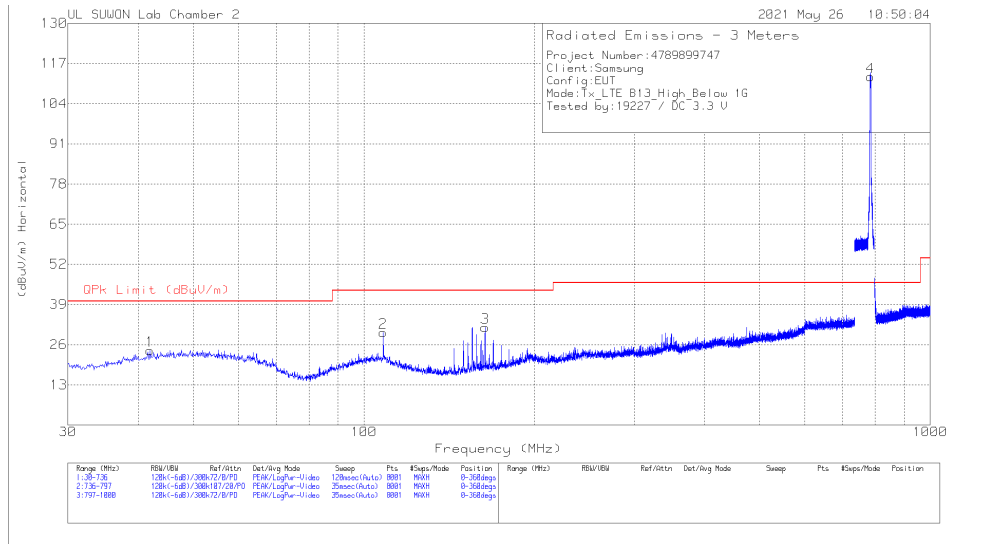
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.122	2.94	Pk	19.2	.7	22.84	40	-17.16	0-360	100	H
2	108.1895	10.62	Pk	17.3	1.1	29.02	43.52	-14.5	0-360	300	H
3	155.4033	17.76	Pk	14	1.4	33.16	43.52	-10.36	0-360	200	H
4	63.0055	3.91	Pk	17.7	.9	22.51	40	-17.49	0-360	400	H
5	783.4199	83.12	Pk	26.5	3.1	112.72	46.02	66.7	0-360	200	H
6	38.5603	12.62	Pk	18.1	.8	31.52	40	-8.48	0-360	100	V
7	108.1895	9.81	Pk	17.3	1.1	28.21	43.52	-15.31	0-360	100	V
8	155.4033	14.76	Pk	14	1.4	30.16	43.52	-13.36	0-360	100	V
9	783.0234	74.36	Pk	26.5	3.1	103.96	46.02	57.94	0-360	200	V

Pk - Peak detector

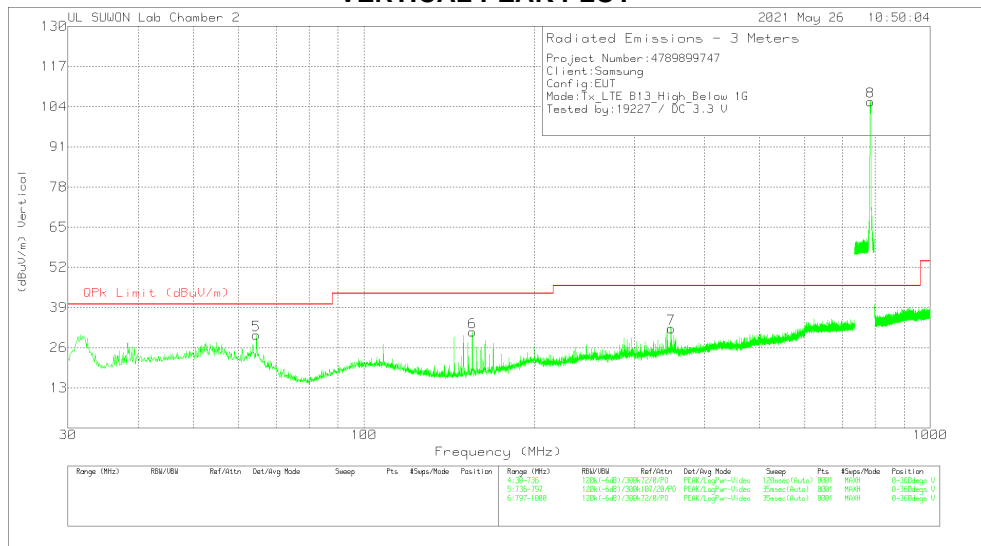
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(753.5 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	41.9138	4.32	Pk	19.1	.7	24.12	40	-15.88	0-360	400	H
2	108.1013	11.55	Pk	17.3	1.1	29.95	43.52	-13.57	0-360	300	H
3	163.6988	15.69	Pk	14.4	1.5	31.59	43.52	-11.93	0-360	300	H
4	784.5865	83.08	Pk	26.5	3.1	112.68	46.02	66.66	0-360	200	H
5	64.594	11.91	Pk	17.2	1	30.11	40	-9.89	0-360	100	V
6	155.4033	15.63	Pk	14	1.4	31.03	43.52	-12.49	0-360	100	V
7	349.2003	8.94	Pk	21	2.2	32.14	46.02	-13.88	0-360	100	V
8	784.6246	75.92	Pk	26.5	3.2	105.62	46.02	59.6	0-360	200	V

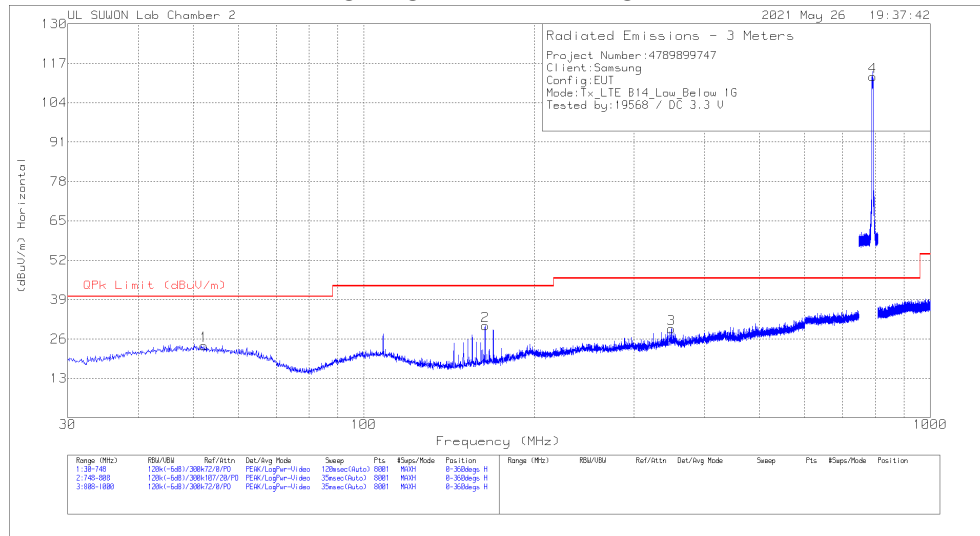
Pk - Peak detector

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

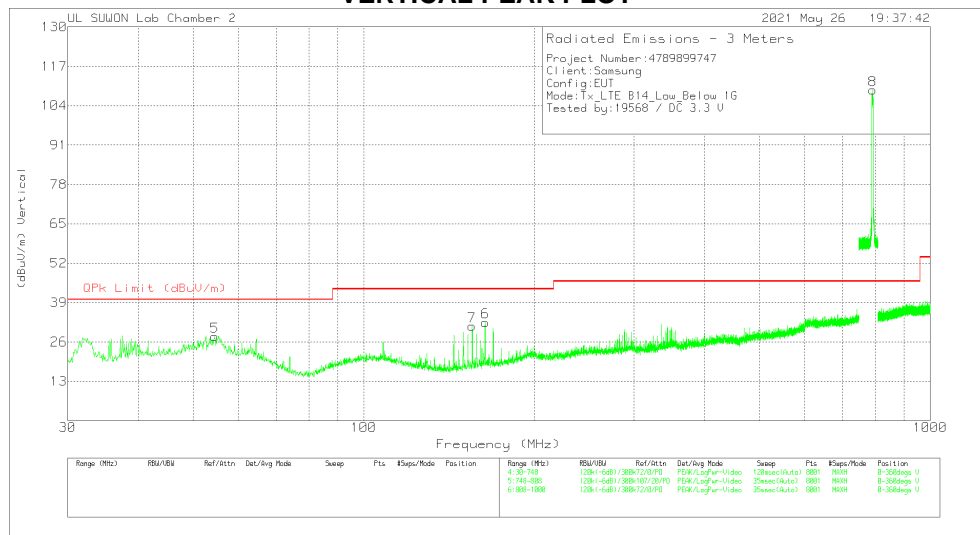
7.13. Below 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

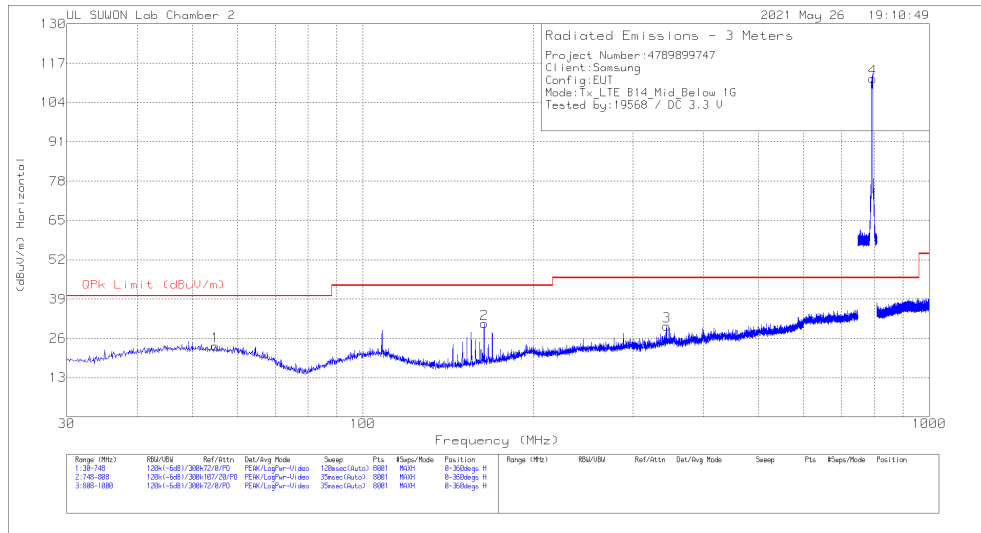
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.258	3.47	Pk	19.7	.7	23.87	40	-16.13	0-360	200	H
2	163.7275	14.47	Pk	14.4	1.5	30.37	43.52	-13.15	0-360	200	H
3	349.151	6.45	Pk	20.9	2.1	29.45	46.02	-16.57	0-360	100	H
4	791.035	83	Pk	26.5	3.1	112.6	46.02	66.58	0-360	100	H
5	54.5915	7.9	Pk	19.3	.7	27.9	40	-12.1	0-360	100	V
6	163.7275	16.62	Pk	14.4	1.5	32.52	43.52	-11	0-360	100	V
7	155.3808	15.77	Pk	14	1.4	31.17	43.52	-12.35	0-360	100	V
8	791.29	79.44	Pk	26.6	3.2	109.24	46.02	63.22	0-360	200	V

Pk - Peak detector

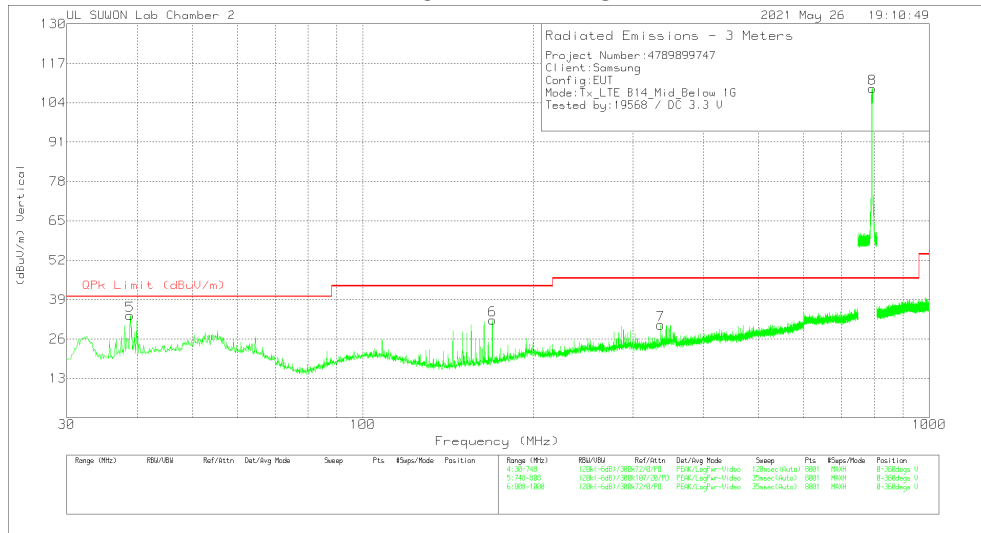
Note: Unwanted emissions captured from 758MHz to 768MHz and from 788MHz to 798MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(763 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

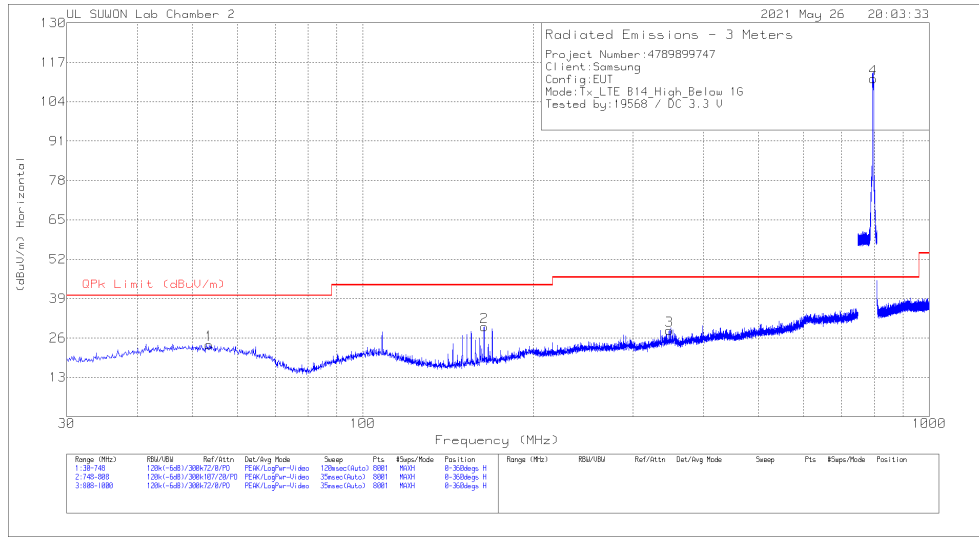
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	54.8608	3.41	Pk	19.3	.7	23.41	40	-16.59	0-360	400	H
2	163.7275	14.97	Pk	14.4	1.5	30.87	43.52	-12.65	0-360	300	H
3	344.125	7.41	Pk	20.6	2.1	30.11	46.02	-15.91	0-360	100	H
4	795.16	82.06	Pk	26.7	3.1	111.86	46.02	65.84	0-360	100	H
5	38.7955	14.94	Pk	18.2	.7	33.84	40	-6.16	0-360	100	V
6	169.292	16.34	Pk	14.5	1.4	32.24	43.52	-11.28	0-360	100	V
7	335.868	8.36	Pk	20.2	2.1	30.66	46.02	-15.36	0-360	100	V
8	793.66	78.88	Pk	26.6	3.2	108.68	46.02	62.66	0-360	200	V

Pk - Peak detector

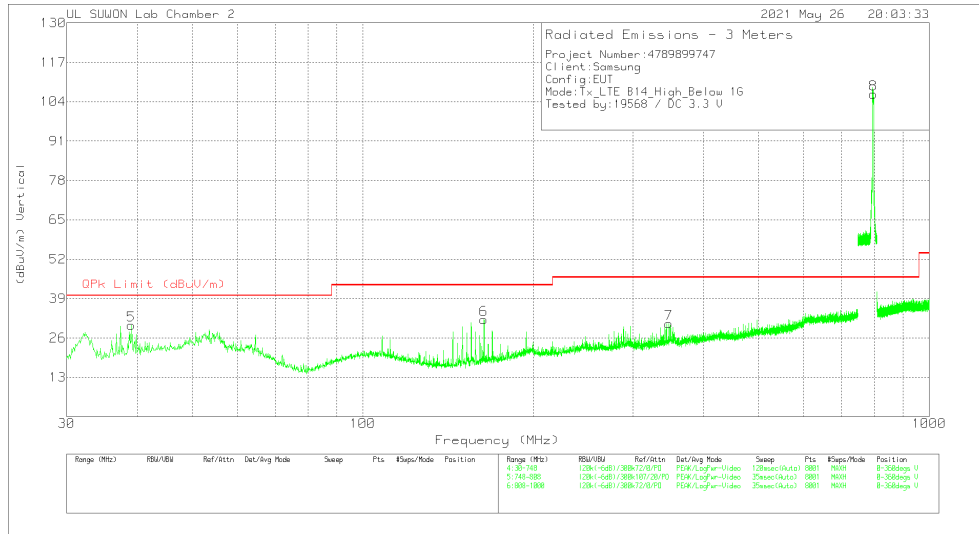
Note: Unwanted emissions captured from 758MHz to 768MHz and from 788MHz to 798MHz were the TX and RX signals generated from the call-simulator.

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	53.5145	3.57	Pk	19.5	.8	23.87	40	-16.13	0-360	200	H
2	163.7275	13.82	Pk	14.4	1.5	29.72	43.52	-13.8	0-360	200	H
3	347.356	5.78	Pk	20.8	1.9	28.48	46.02	-17.54	0-360	300	H
4	796.0975	81.85	Pk	26.7	3.1	111.65	46.02	65.63	0-360	100	H
5	38.975	11.31	Pk	18.3	.6	30.21	40	-9.79	0-360	100	V
6	163.6378	16.15	Pk	14.4	1.5	32.05	43.52	-11.47	0-360	100	V
7	346.8175	7.79	Pk	20.8	2.1	30.69	46.02	-15.33	0-360	100	V
8	796.2175	76.6	Pk	26.7	3.2	106.5	46.02	60.48	0-360	200	V

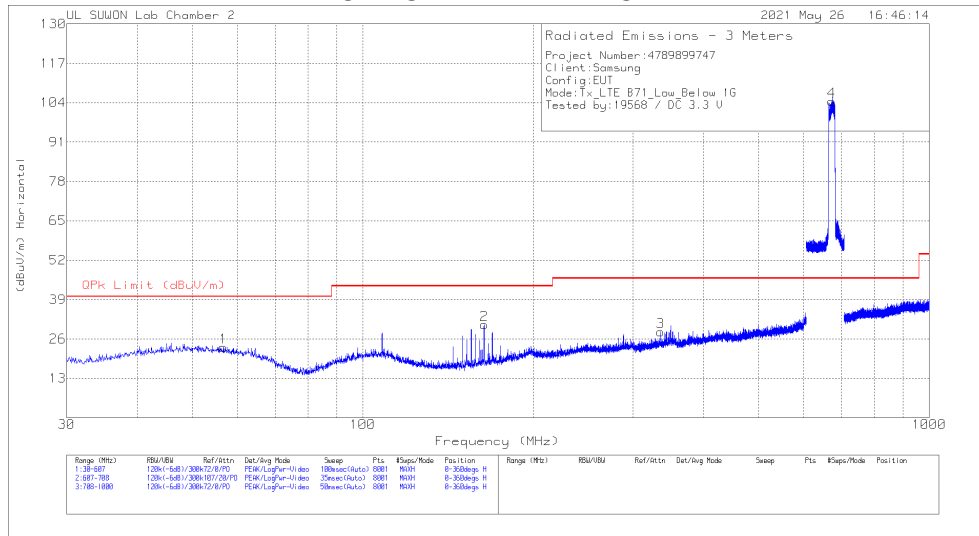
Pk - Peak detector

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

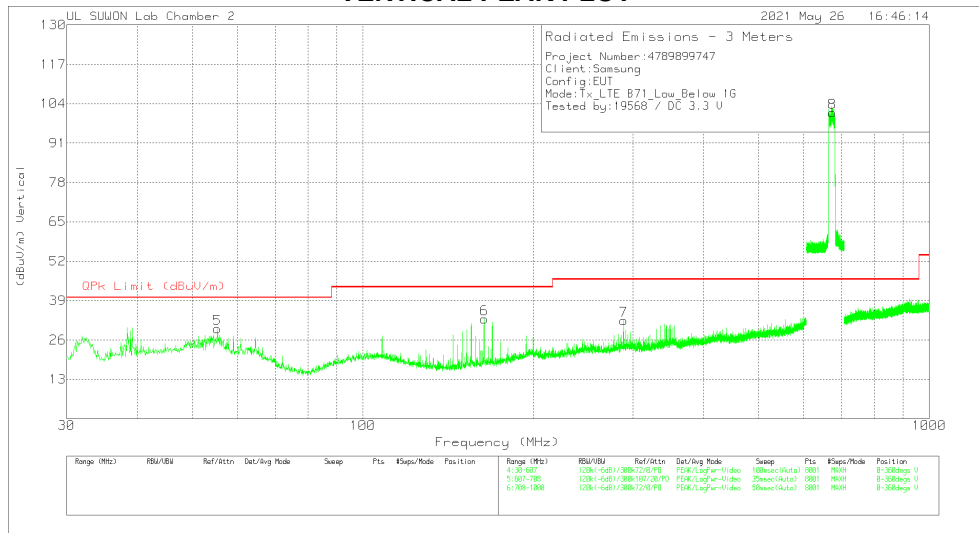
7.14. Below 1 GHz in the LTE Band 71

LOW CHANNEL(627 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

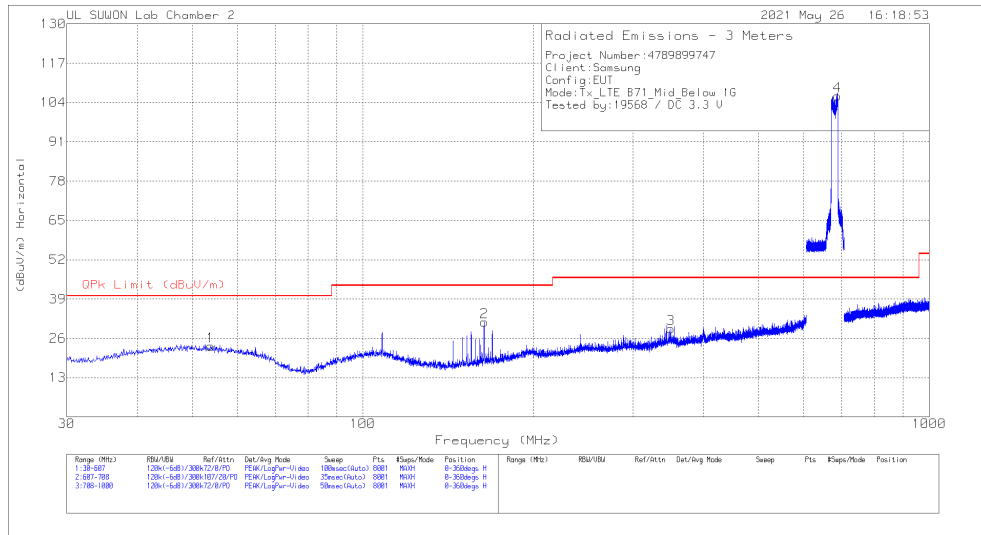
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.6863	3.39	Pk	19.1	.8	23.29	40	-16.71	0-360	100	H
2	163.7198	14.85	Pk	14.4	1.5	30.75	43.52	-12.77	0-360	200	H
3	335.81	5.91	Pk	20.2	2.2	28.31	46.02	-17.71	0-360	400	H
4	673.5085	76.14	Pk	25.4	2.9	104.44	46.02	58.42	0-360	100	H
5	55.388	9.5	PK	19.3	1	29.8	40	-10.2	0-360	100	V
6	163.7198	17	Pk	14.4	1.5	32.9	43.52	-10.62	0-360	100	V
7	288.6403	11.38	Pk	19	2	32.38	46.02	-13.64	0-360	100	V
8	674.4554	72.8	Pk	25.4	2.9	101.1	46.02	55.08	0-360	100	V

Pk - Peak detector

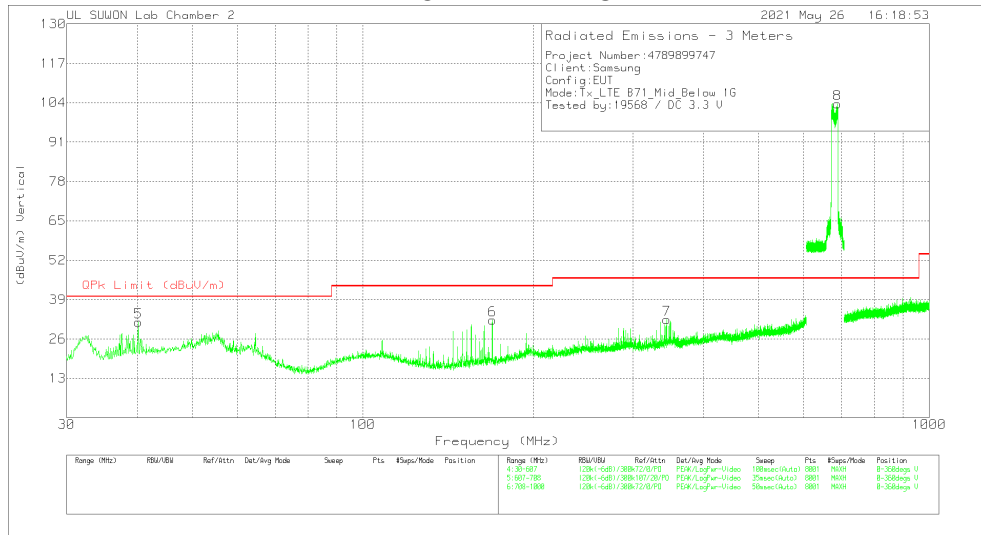
Note: Unwanted emissions captured from 617MHz to 652MHz and from 663MHz to 698MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

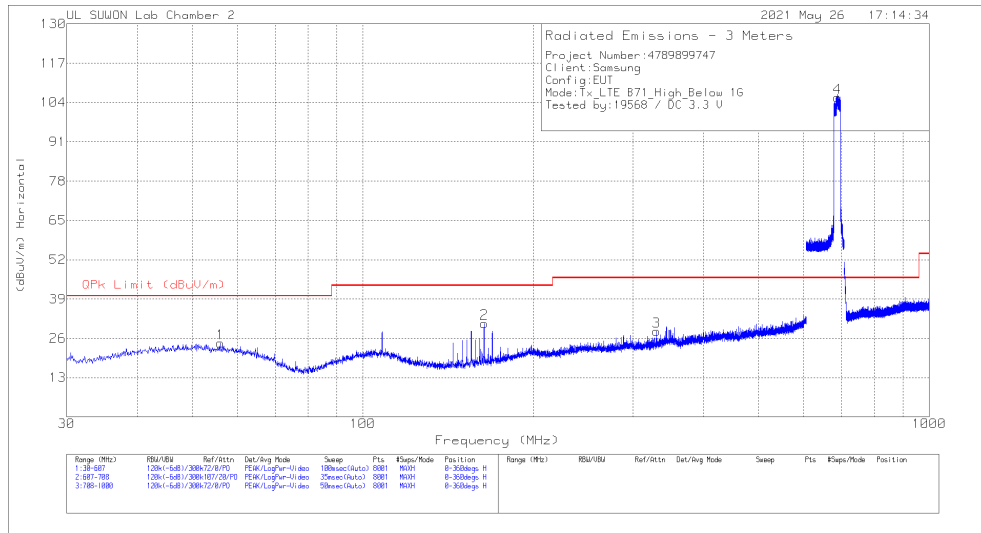
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	53.8734	3.09	PK	19.4	.9	23.39	40	-16.61	0-360	300	H
2	163.7198	15.57	PK	14.4	1.5	31.47	43.52	-12.05	0-360	300	H
3	349.658	6.11	PK	21	2.1	29.21	46.02	-16.81	0-360	100	H
4	688.0904	77.87	PK	25.4	2.9	106.17	46.02	60.15	0-360	100	H
5	40.1696	12.06	PK	18.7	.9	31.66	40	-8.34	0-360	200	V
6	169.2734	16.29	PK	14.5	1.4	32.19	43.52	-11.33	0-360	100	V
7	344.1765	9.66	PK	20.7	2.1	32.46	46.02	-13.56	0-360	100	V
8	688.7469	75.23	PK	25.4	3	103.63	46.02	57.61	0-360	100	V

Pk - Peak detector

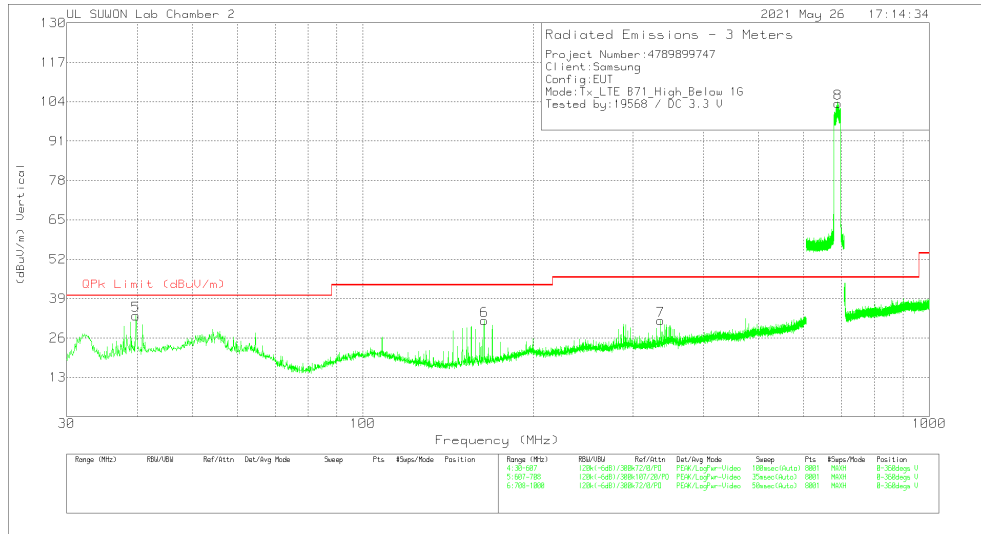
Note: Unwanted emissions captured from 617MHz to 652MHz and from 663MHz to 698MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(642 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)	OPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.0371	4.43	Pk	19.2	.9	24.53	40	-15.47	0-360	200	H
2	163.7198	15.09	Pk	14.4	1.5	30.99	43.52	-12.53	0-360	300	H
3	330.2564	6.45	Pk	19.9	2	28.35	46.02	-17.67	0-360	100	H
4	688.6711	77.37	PK	25.4	2.9	105.67	46.02	59.65	0-360	100	H
5	39.7369	14.17	Pk	18.5	.7	33.37	40	-6.63	0-360	100	V
6	163.7198	15.87	Pk	14.4	1.5	31.77	43.52	-11.75	0-360	100	V
7	335.81	9.32	Pk	20.2	2.2	31.72	46.02	-14.3	0-360	100	V
8	689.9084	75	Pk	25.4	3	103.4	46.02	57.38	0-360	100	V

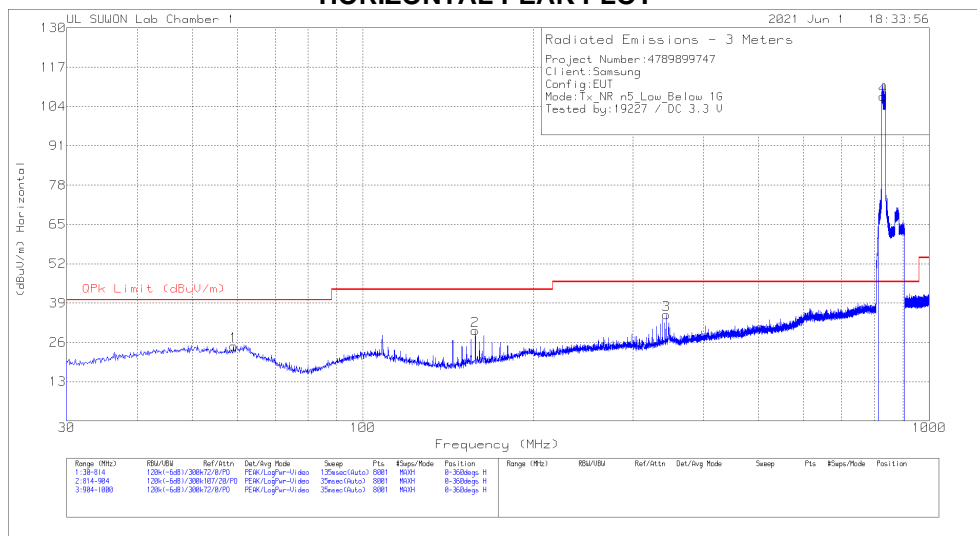
Pk - Peak detector

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

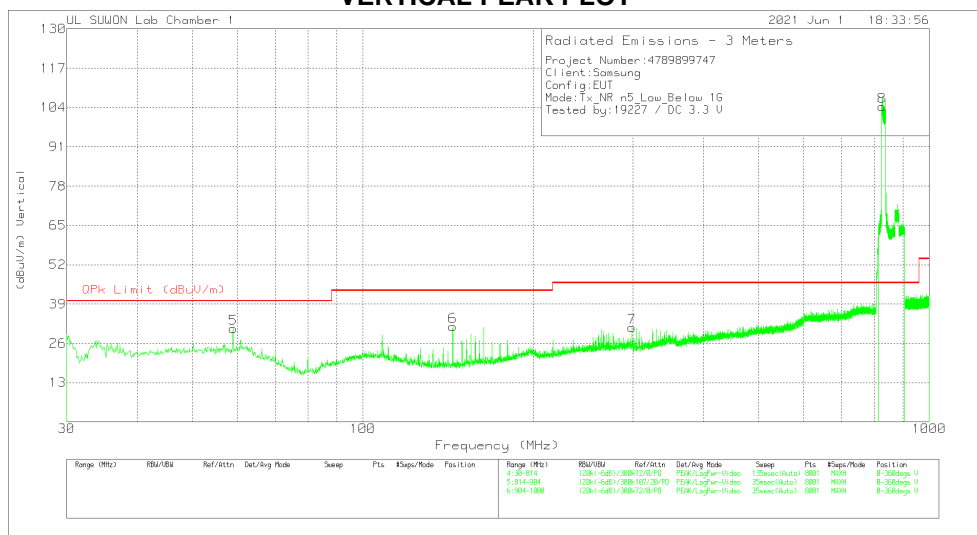
7.15. Below 1 GHz in the 5G NR Band 5

LOW CHANNEL(876.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

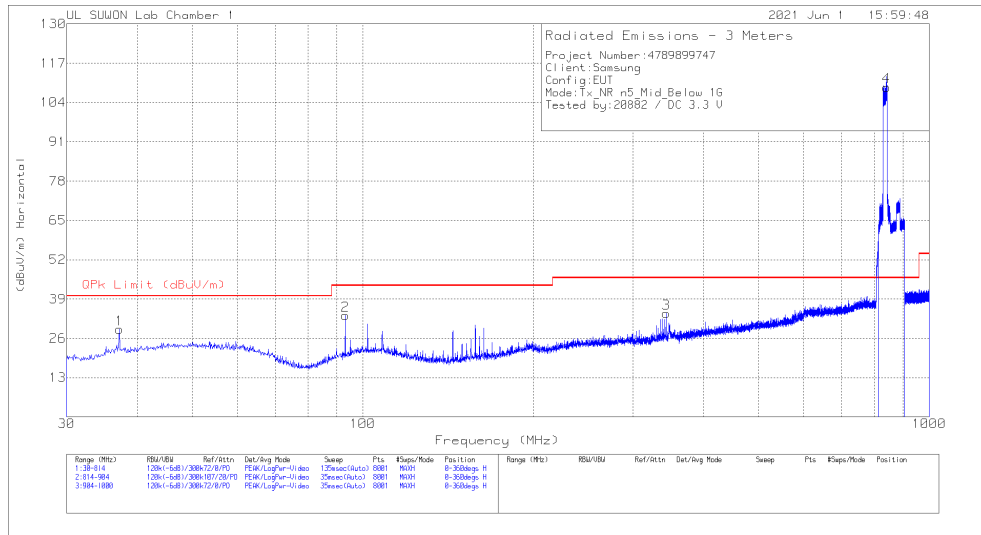
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.106	4.32	Pk	18.8	1.7	24.82	40	-15.18	0-360	400	H
2	157.988	12.98	Pk	14.2	2.7	29.88	43.52	-13.64	0-360	200	H
3	343.11	10.48	Pk	20.7	3.9	35.08	46.02	-10.94	0-360	100	H
4	828.985	74.32	Pk	27	6	107.32	46.02	61.3	0-360	100	H
5	59.008	10.48	Pk	18.8	1.7	30.98	40	-9.02	0-360	100	V
6	144.17	15.2	Pk	13.8	2.6	31.6	43.52	-11.92	0-360	100	V
7	298.814	8.44	Pk	19.2	3.6	31.24	46.02	-14.78	0-360	100	V
8	825.475	71.25	Pk	27.1	6	104.35	46.02	58.33	0-360	100	V

Pk - Peak detector

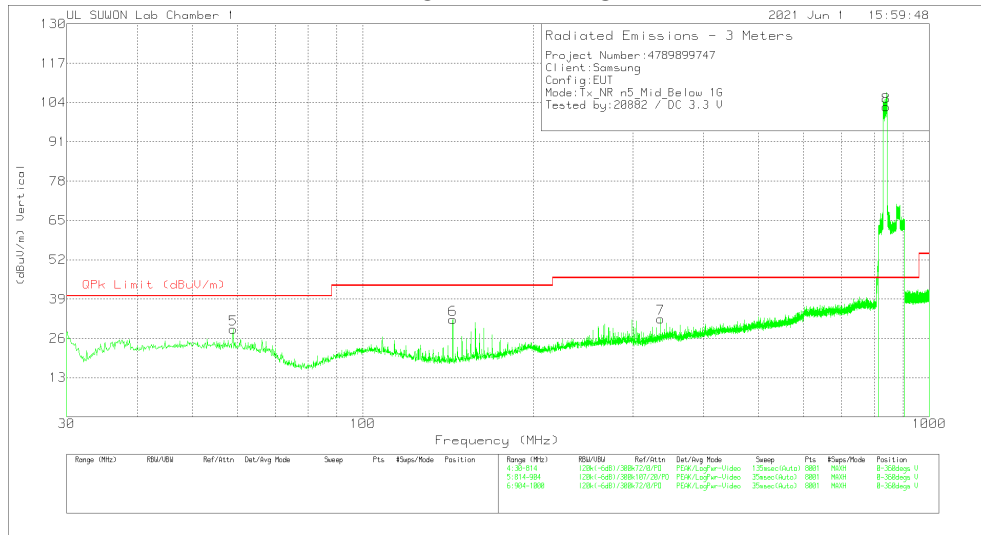
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

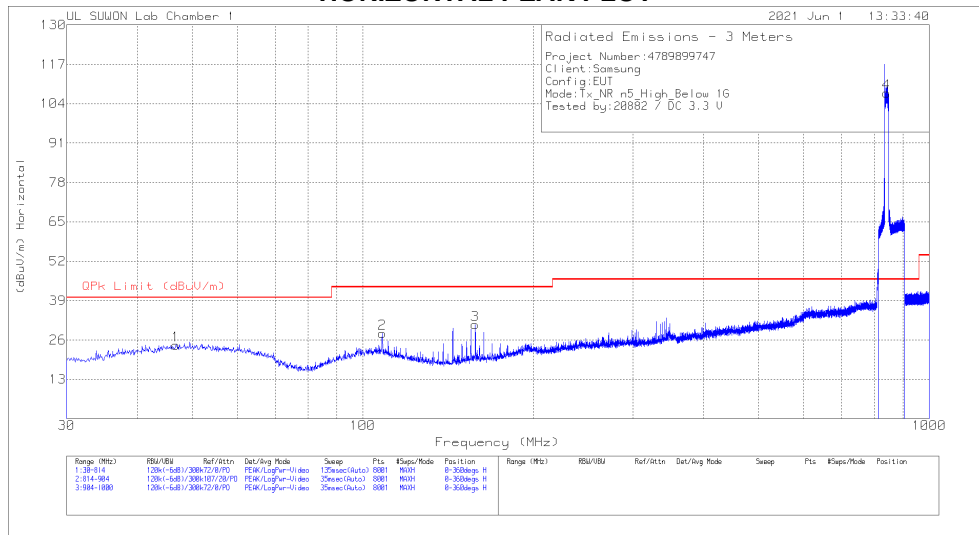
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.154	10.16	Pk	17.6	1.3	29.06	40	-10.94	0-360	100	H
2	93.112	15.27	Pk	16.2	2.1	33.57	43.52	-9.95	0-360	100	H
3	343.11	9.76	Pk	20.7	3.9	34.36	46.02	-11.66	0-360	100	H
4	841.1463	75.92	Pk	27.2	6	109.12	46.02	63.1	0-360	100	H
5	59.008	8.56	Pk	18.8	1.7	29.06	40	-10.94	0-360	100	V
6	144.17	15.85	Pk	13.8	2.6	32.25	43.52	-11.27	0-360	100	V
7	335.466	8.42	Pk	20.3	3.8	32.52	46.02	-13.5	0-360	100	V
8	839.425	69.42	Pk	27.2	6	102.62	46.02	56.6	0-360	100	V

Pk - Peak detector

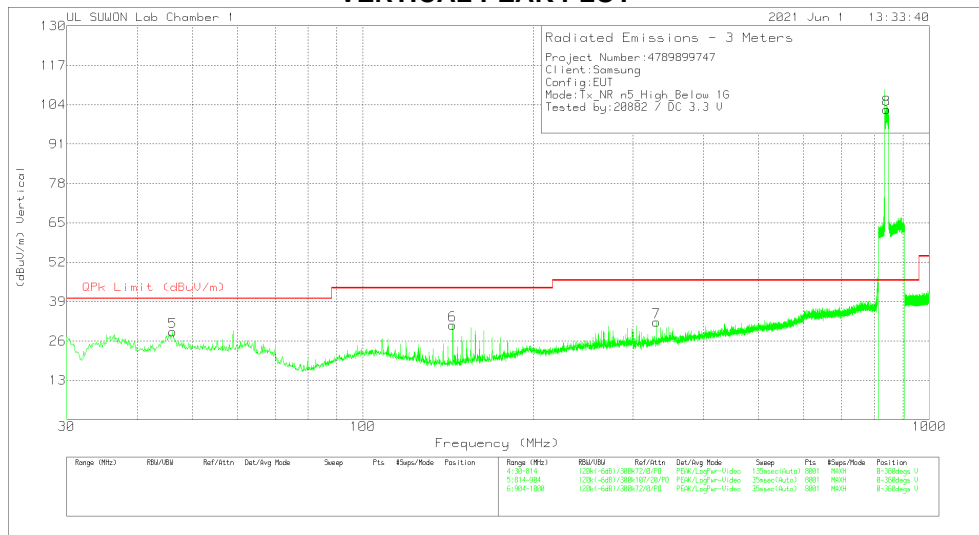
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(886.5MHz)

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	46.758	2.92	Pk	19.9	1.5	24.32	40	-15.68	0-360	400	H
2	108.204	8.51	Pk	17.5	2.2	28.21	43.52	-15.31	0-360	200	H
3	157.988	14.16	Pk	14.2	2.7	31.06	43.52	-12.46	0-360	200	H
4	840.7863	74.32	Pk	27.2	6	107.52	46.02	61.5	0-360	100	H
5	46.17	7.65	Pk	19.9	1.5	29.05	40	-10.95	0-360	100	V
6	144.121	14.92	Pk	13.8	2.6	31.32	43.52	-12.2	0-360	100	V
7	329.88	8.4	Pk	20	3.8	32.2	46.02	-13.82	0-360	100	V
8	841.45	69.29	Pk	27.2	6	102.49	46.02	56.47	0-360	100	V

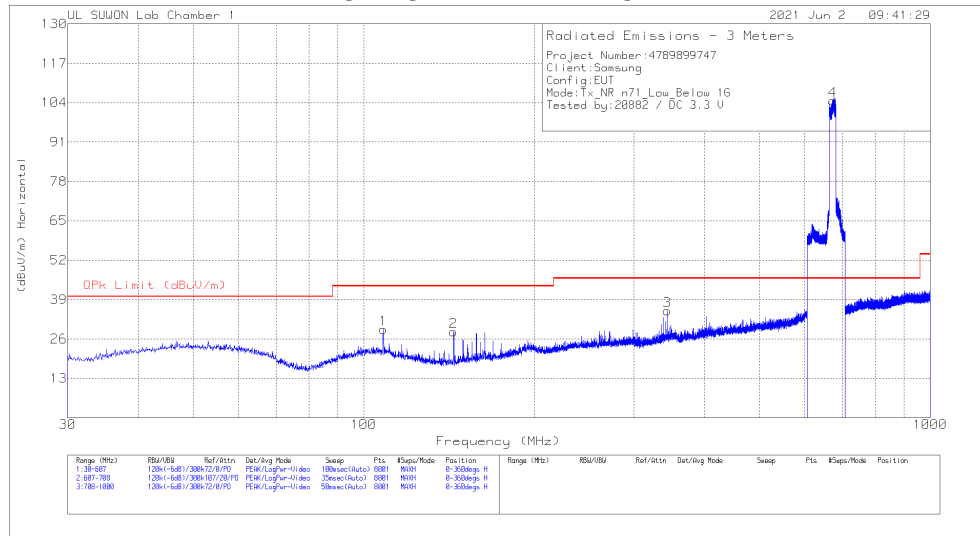
Pk - Peak detector

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

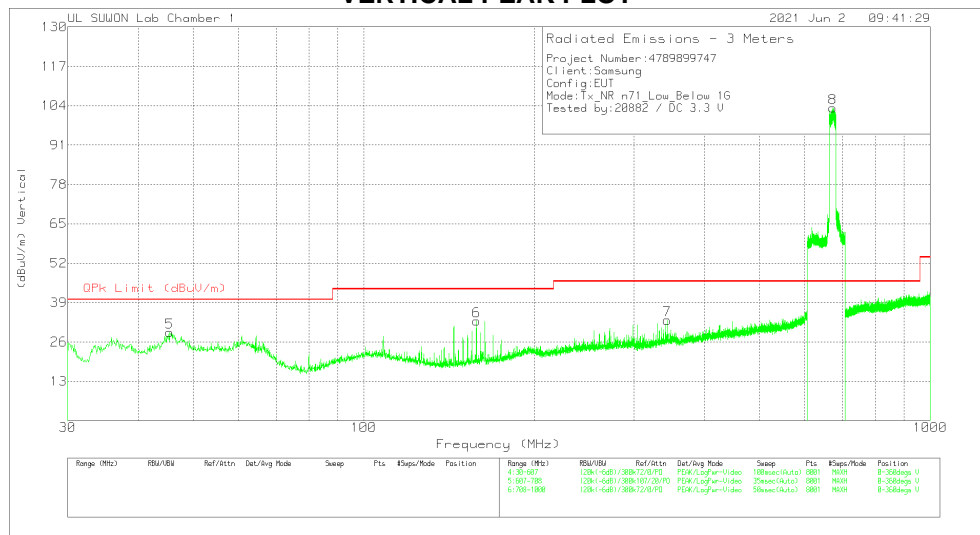
7.16. Below 1 GHz in the 5G NR Band 71

LOW CHANNEL(627 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

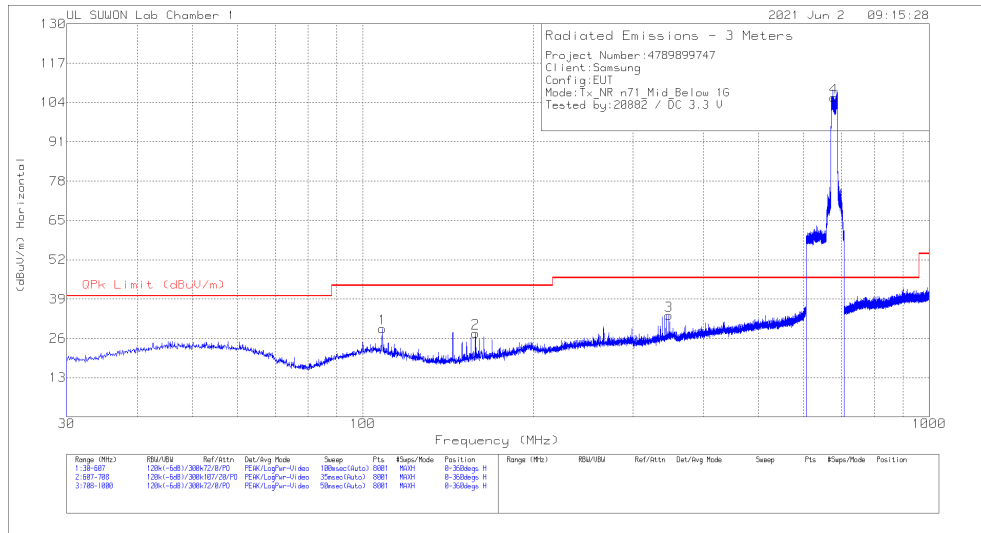
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	108.2556	9.49	Pk	17.5	2.2	29.19	43.52	-14.33	0-360	300	H
2	144.1018	12.04	Pk	13.8	2.6	28.44	43.52	-15.08	0-360	200	H
3	343.0946	10.69	Pk	20.7	3.9	35.29	46.02	-10.73	0-360	100	H
4	673.4959	73.78	Pk	25.5	5.4	104.68	46.02	58.66	0-360	100	H
5	45.4348	7.92	PK	19.8	1.5	29.22	40	-10.78	0-360	100	V
6	158.0219	15.99	Pk	14.2	2.7	32.89	43.52	-10.63	0-360	100	V
7	343.0946	8.6	Pk	20.7	3.9	33.2	46.02	-12.82	0-360	100	V
8	673.1803	72.35	Pk	25.5	5.4	103.25	46.02	57.23	0-360	100	V

Pk - Peak detector

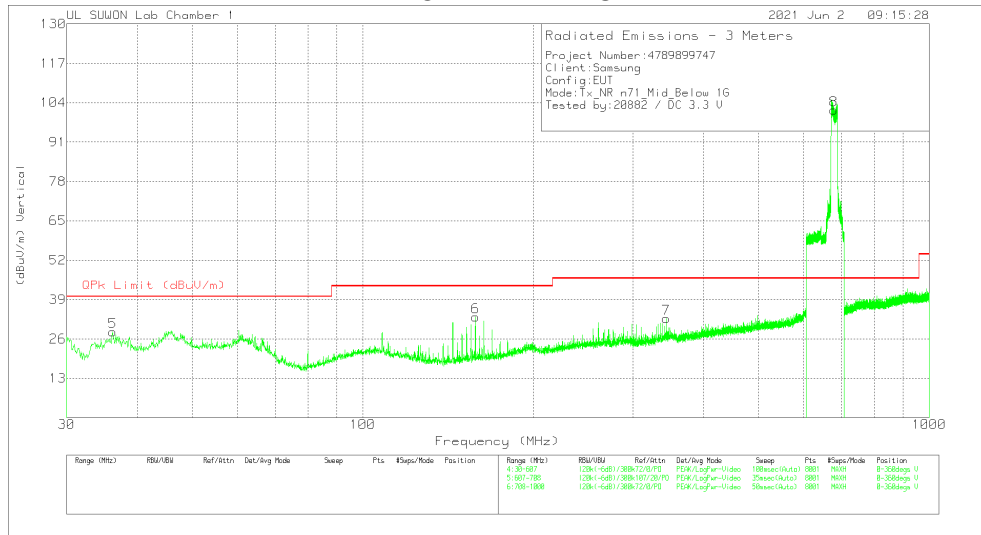
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

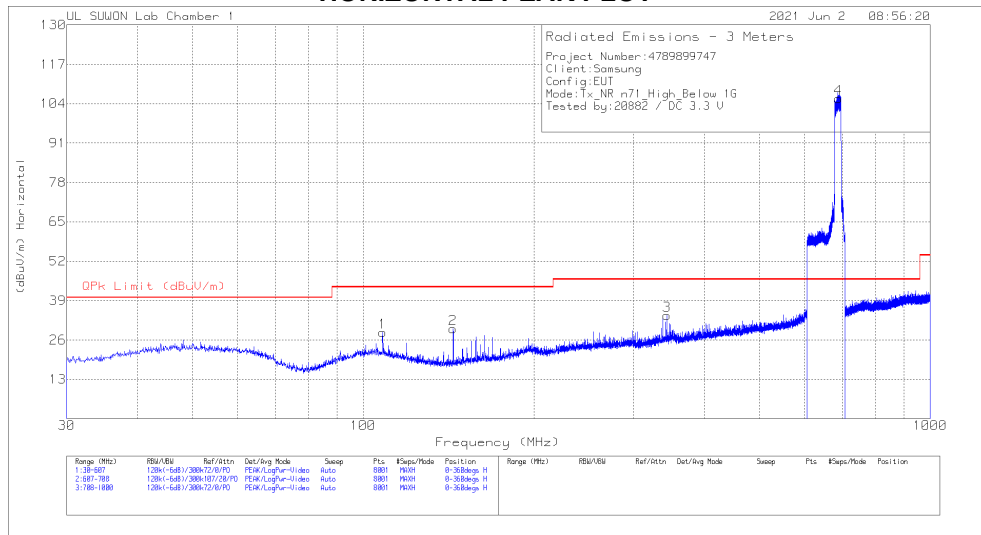
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	108.2556	9.6	Pk	17.5	2.2	29.3	43.52	-14.22	0-360	300	H
2	158.0219	10.87	Pk	14.2	2.7	27.77	43.52	-15.75	0-360	200	H
3	346.773	8.83	Pk	20.9	3.9	33.63	46.02	-12.39	0-360	200	H
4	679.0256	74.76	Pk	25.5	5.4	105.66	46.02	59.64	0-360	100	H
5	36.2028	9.92	Pk	17.2	1.3	28.42	40	-11.58	0-360	100	V
6	158.0219	16.32	Pk	14.2	2.7	33.22	43.52	-10.3	0-360	100	V
7	343.0946	8.16	Pk	20.7	3.9	32.76	46.02	-13.26	0-360	100	V
8	678.7731	70.7	Pk	25.5	5.4	101.6	46.02	55.58	0-360	100	V

Pk - Peak detector

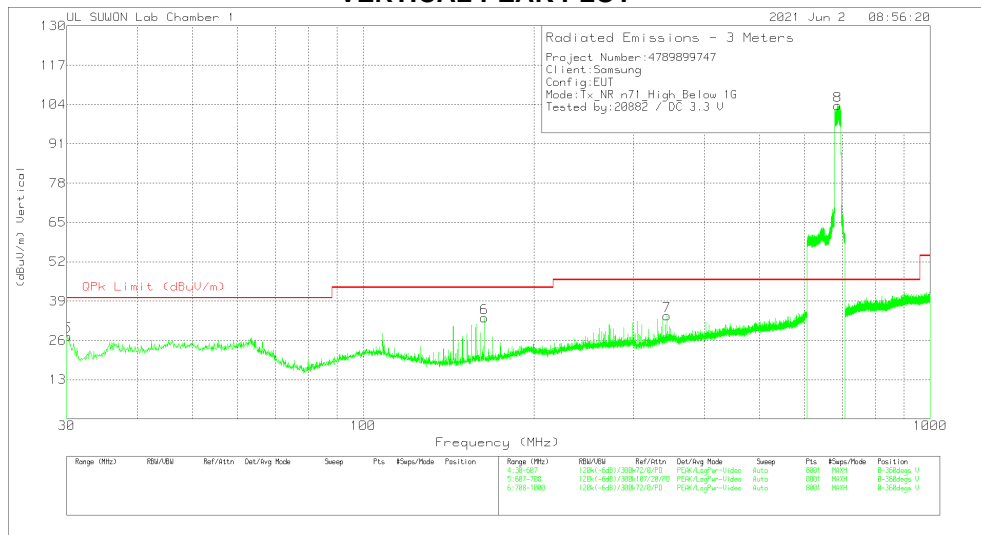
Note. Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(642 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	108.2556	8.87	Pk	17.5	2.2	28.57	43.52	-14.95	0-360	300	H
2	144.1018	13.35	Pk	13.8	2.6	29.75	43.52	-13.77	0-360	200	H
3	343.0946	9.57	Pk	20.7	3.9	34.17	46.02	-11.85	0-360	200	H
4	688.1156	74.49	Pk	25.6	5.5	105.59	46.02	59.57	0-360	100	H
5	30.1443	10.23	Pk	16	1.2	27.43	40	-12.57	0-360	100	V
6	163.5034	16.28	Pk	14.4	2.7	33.38	43.52	-10.14	0-360	100	V
7	343.0946	9.52	Pk	20.7	3.9	34.12	46.02	-11.9	0-360	100	V
8	686.9415	72.46	Pk	25.6	5.5	103.56	46.02	57.54	0-360	100	V

Pk - Peak detector

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

END OF TEST REPORT