



FCC 47 CFR PART 15 SUBPART B

CERTIFICATION TEST REPORT

FOR

WCDMA/LTE Tablet + BT/BLE and DTS/UNII a/b/g/n/ac

MODEL NUMBER : SM-W737Y

FCC ID: A3LSMW737Y

REPORT NUMBER: 4788715722-E6V3

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Prepared for

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ACCREDITED*

Testing
Laboratory

TL-637

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	11/02/18	Initial issue	SangWon Lee
V2	12/10/18	modified by reviewer comment	SangWon Lee
V3	12/13/18	modified by reviewer comment	SangWon Lee

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. MEASURING INSTRUMENT CALIBRATION.....	5
4.2. SAMPLE CALCULATION.....	5
4.3. MEASUREMENT UNCERTAINTY	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT.....	7
5.2. PRELIMINARY TEST CONFIGURATIONS.....	7
5.3. MODE(S) OF OPERATION INVESTIGATED.....	7
5.4. MODIFICATIONS.....	7
5.5. DETAILS OF TESTED SYSTEM.....	8
6. TEST AND MEASUREMENT EQUIPMENT	16
7. APPLICABLE LIMITS AND TEST RESULTS	17
7.1. RADIATED EMISSIONS	17
7.2. RADIATED EMISSIONS FOR CELLULAR RECEIVER MODE	54
7.3. AC MAINS LINE CONDUCTED EMISSIONS.....	103
8. SETUP PHOTOS.....	128

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: WCDMA/LTE Tablet + BT/BLE and DTS/UNII a/b/g/n/ac
MODEL NUMBER: SM-W737Y
SERIAL NUMBER: BNZ3R32KA0007ZL
DATE TESTED: OCT 18, 2018 - DEC 08, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART B	Pass

UL Verification Services Inc. 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 Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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 NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:



ChangYoung Choi
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



SangWon Lee
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2014, FCC CFR 47 Part 2, FCC CFR 47 Part 15.

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	
☒	Chamber 1
☒	Chamber 2
☒	Chamber 3

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/PDF/TL/TL-637.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.32 dB
Radiated Disturbance, Below 1GHz	4.14 dB
Radiated Disturbance, Above 1 GHz	5.97 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Display out & Rear cam free view & Front cam free view & External USB memory read,write,delete & External micro SD memory read,write,delete & Audio file play mode & Lan mode.

GENERAL INFORMATION

Type of device	Class B personal computers and peripherals
AC adapter power requirements	100-240 VAC / 50-60 Hz, 1.0 A
List of frequencies generated or used by the EUT	30 GHz (5 th harmonic of the frequency of 5.8GHz WLAN)

5.2. PRELIMINARY TEST CONFIGURATIONS

The system was configured for testing in a typical fashion that a customer would normally use.

5.3. MODE(S) OF OPERATION INVESTIGATED

Mode	Description
DP_VGA Cam_Audio Play_Memory	Display out & Front cam free view & External micro SD memory read,write,delete & Audio file play mode
ExUSB_MEGA Cam_Audio Play_Memory	Rear cam free view & External USB memory read,write,delete & External micro SD memory read,write,delete & Audio file play mode
LAN_MEGA Cam_Audio Play_Memory	Rear cam free view & External micro SD memory read,write,delete & Audio file play mode & Lan mode
Celluar receiver mode	WCDMA Band 5, LTE Band 5, LTE Band 13, LTE Band 17

For tablet mode, test results were investigated in three orthogonal orientations X, Y and Z it was determined that X orientation was worst-case orientation.

5.4. MODIFICATIONS

No modifications were made during testing.

5.5. DETAILS OF TESTED SYSTEM

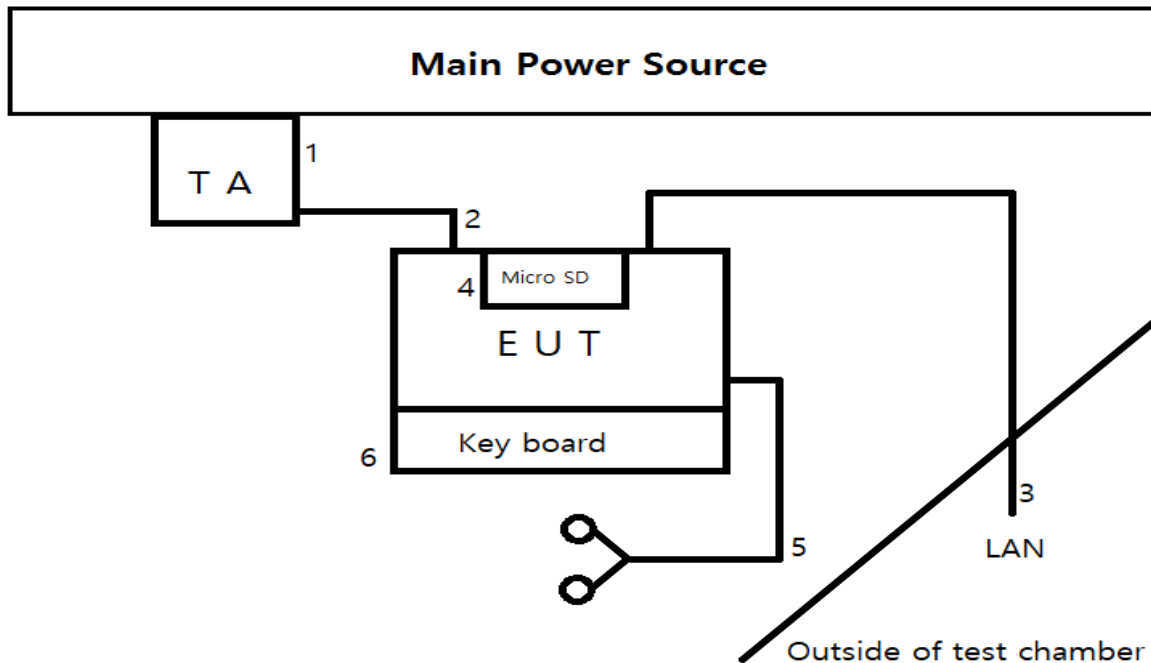
SUPPORT EQUIPMENT & PERIPHERALS

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID/DoC
Charger	SAMSUNG	EP-TA300	R37K5J20ET3SE3	N/A
Data Cable	SAMSUNG	EP-DW720CWE	N/A	N/A
Earphone	SAMSUNG	EO-EG920BW	N/A	N/A
Keyboard	SAMSUNG	EJ-CW730	N/A	N/A
LCD Monitor	DELL	U2417Ht	CN-0767T7-WS200 -835-A3ML-A07	DoC
USB memory	infoThink	ARK REACTOR(8G)	N/A	DoC
Micro SD	SAMSUNG	MicroSDXC PRO	-	DoC

- LAN_MEGA Cam_Audio Play_Memory (with Keyboard)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Power	1	Power	Direct	-	From AC main to Travel Adapter
2	USB	1	Power	Shielded	1.4m	From Travel Adapter to EUT
3	LAN	1	USB C type	Direct	2.5m	From EUT to outside Ethernet
4	SD Card	1	-	-	Direct	From EUT to Micro SD Card
5	Stereo	1	Stereo	Unshield	1.2m	From EUT to Earphone
6	IO	1	IO	Direct	-	From EUT to Keyboard

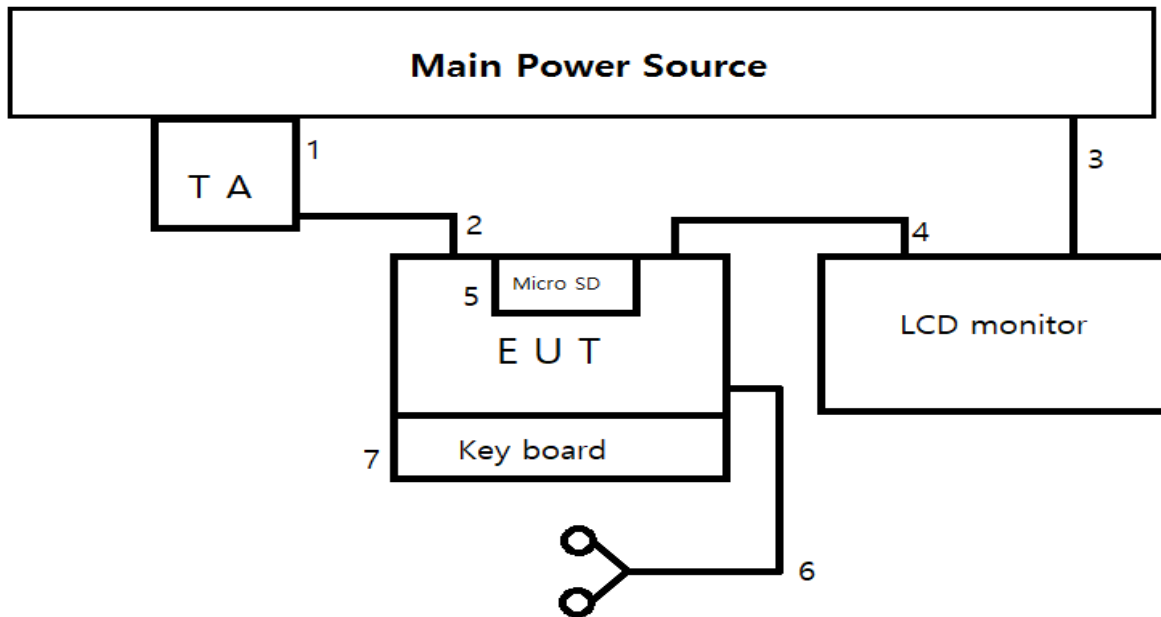
- TEST SETUP DIAGRAM of LAN_MEGA Cam_Audio Play_Memory (with Keyboard)



- DP_VGA Cam_Audio Play_Memory (with Keyboard)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Power	1	Power	Direct	-	From AC main to Travel Adapter
2	USB	1	Power	Shielded	1.4m	From Travel Adapter to EUT
3	AC Power	1	Power	Unshielded	1.8m	From AC main to LCD Monitor
4	DP	1	USB C type	Shielded	2.0m	From EUT to USB C type port
5	SD Card	1	-	-	Direct	From EUT to Micro SD Card
6	Stereo	1	Stereo	Unshield	1.2m	From EUT to Earphone
7	IO	1	IO	Direct	-	From EUT to Keyboard

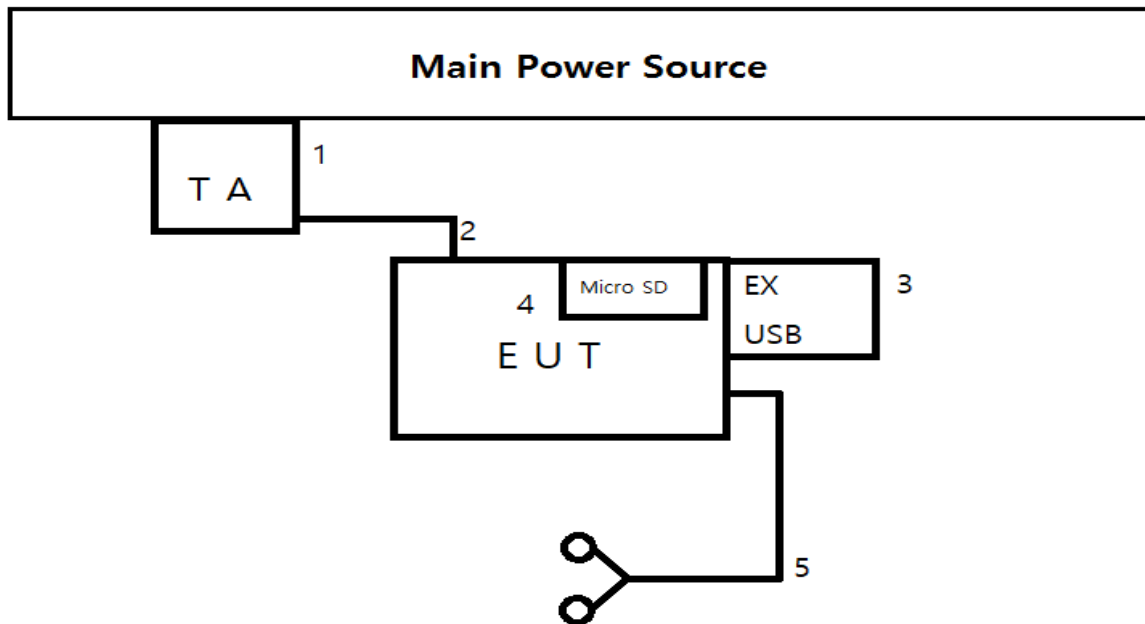
- TEST SETUP DIAGRAM of DP_VGA Cam_Audio Play_Memory (with Keyboard)



- ExUSB_MEGA Cam_Audio Play_Memory(without Keyboard)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Power	1	Power	Direct	-	From AC main to Travel Adapter
2	USB	1	Power	Shielded	1.4m	From Travel Adapter to EUT
3	EX USB	1	USB C type	-	Direct	From EUT to EX USB memory
4	SD Card	1	-	-	Direct	From EUT to Micro SD Card
5	Stereo	1	Stereo	Unshield	1.2m	From EUT to Earphone

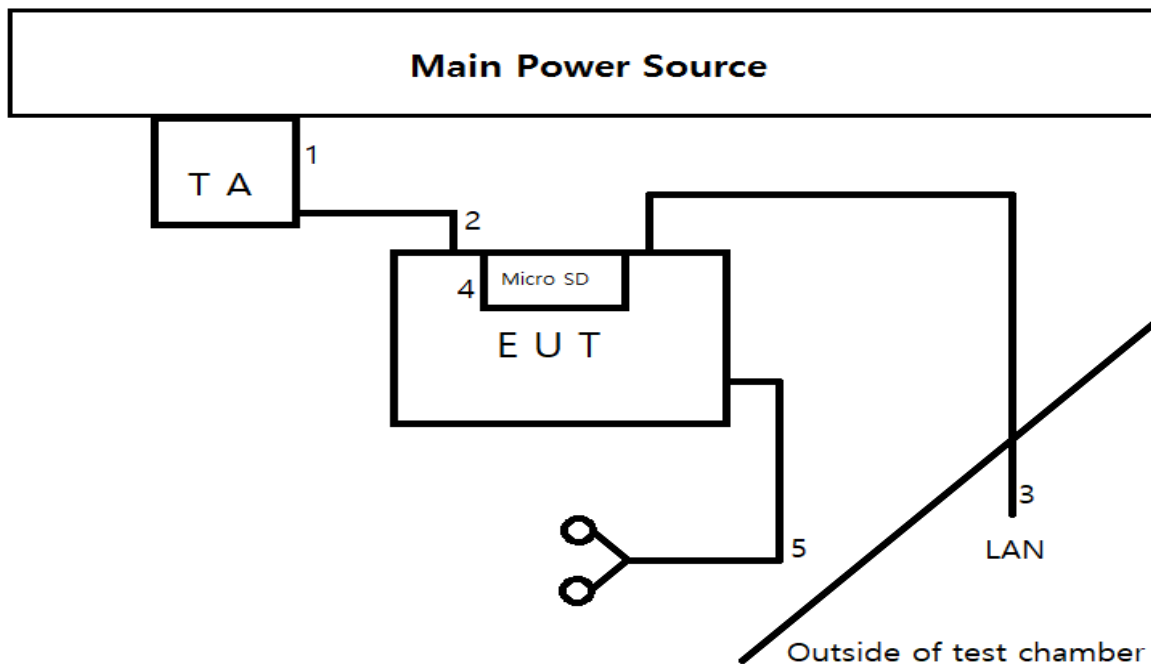
- TEST SETUP DIAGRAM of ExUSB_MEGA Cam_Audio Play_Memory
- (without Keyboard)



- LAN_MEGA Cam_Audio Play_Memory(without Keyboard)

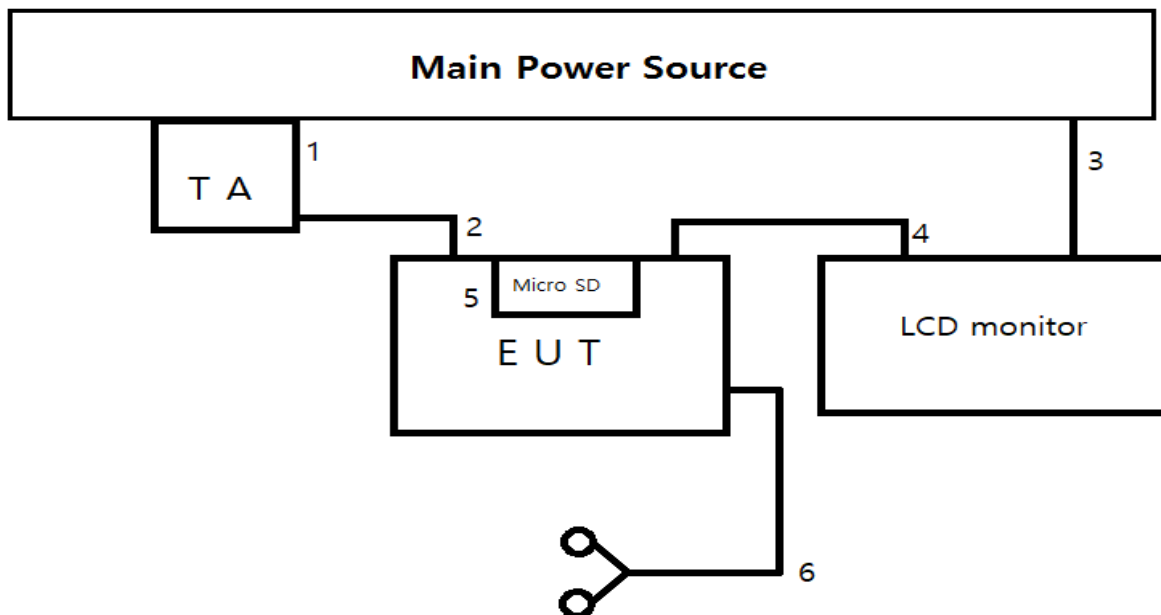
I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Power	1	Power	Direct	-	From AC main to Travel Adapter
2	USB	1	Power	Shielded	1.4m	From Travel Adapter to EUT
3	LAN	1	USB C type	Direct	2.5m	From EUT to outside Ethernet
4	SD Card	1	-	-	Direct	From EUT to Micro SD Card
5	Stereo	1	Stereo	Unshield	1.2m	From EUT to Earphone

- TEST SETUP DIAGRAM of LAN_MEGA Cam_Audio Play_Memory (without Keyboard)



I/O Cable List						
Cabl e No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Power	1	Power	Direct	-	From AC main to Travel Adapter
2	USB	1	Power	Shielded	1.4m	From Travel Adapter to EUT
3	AC Power	1	Power	Unshielded	1.8m	From AC main to LCD Monitor
4	DP	1	USB C type	Shielded	2.0m	From EUT to USB C type port
5	SD Card	1	-	-	Direct	From EUT to Micro SD Card
6	Stereo	1	Stereo	Unshield	1.2m	From EUT to Earphone

- TEST SETUP DIAGRAM of LAN DP_VGA Cam_Audio Play_Memory (without Keyboard)



- Cellular receiver mode

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA3000	R37K5J20EF3SE3	N/A
Data Cable	SAMSUNG	EP-DW720CWE	N/A	N/A
Earphone	SAMSUNG	EO-EG920BW	N/A	N/A
Keyboard	SAMSUNG	EJ-CW730	N/A	N/A

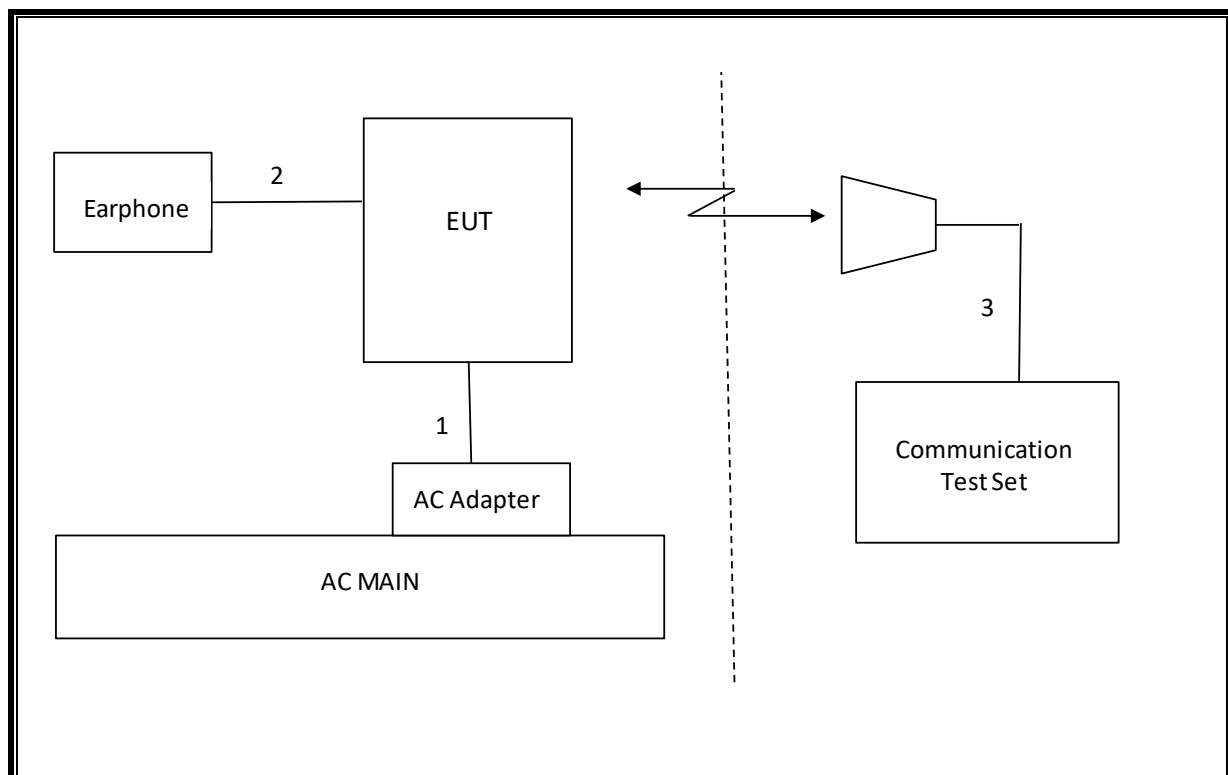
I/O CABLES

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	1.1m	N/A
2	Audio	2	Mini-Jack	Unshielded	1.2m	N/A

TEST SETUP

The EUT is continuously communicated to 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, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	08-04-20
Antenna, Horn, 18 GHz	ETS	3115	00161451	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00168724	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00168717	08-04-20
Antenna, Horn, 40 GHz	ETS	3116C	00166155	12-04-19
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	08-09-19
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-07-19
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-07-19
Preamplifier, 18 GHz	Miteq	AFS42-00101800 -25-S-42	1896138	08-07-19
Communication test set	R&S	CMW500	115331	08-07-19
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-06-19
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-06-19
EMI Test Receive, 3 GHz	R&S	ESR3	101832	08-06-19
Attenuator / Switch driver	HP	11713A	3748A04272	N/A
LISN	R&S	ENV-216	101836	08-09-19
LISN	R&S	ENV-216	101837	08-09-19
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

Note: The testing was performed in accordance with ANSI C63.4-2014.
C63.4:2014 requires measurement antennas to be calibrated in accordance with C63.5: 2006.
The antenna calibration was done in accordance with C63.5: 2006.

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4: 2014

The highest clock frequency generated or used in the EUT is 5.8GHz therefore the frequency range was investigated from 30 MHz to 30 GHz.

LIMIT

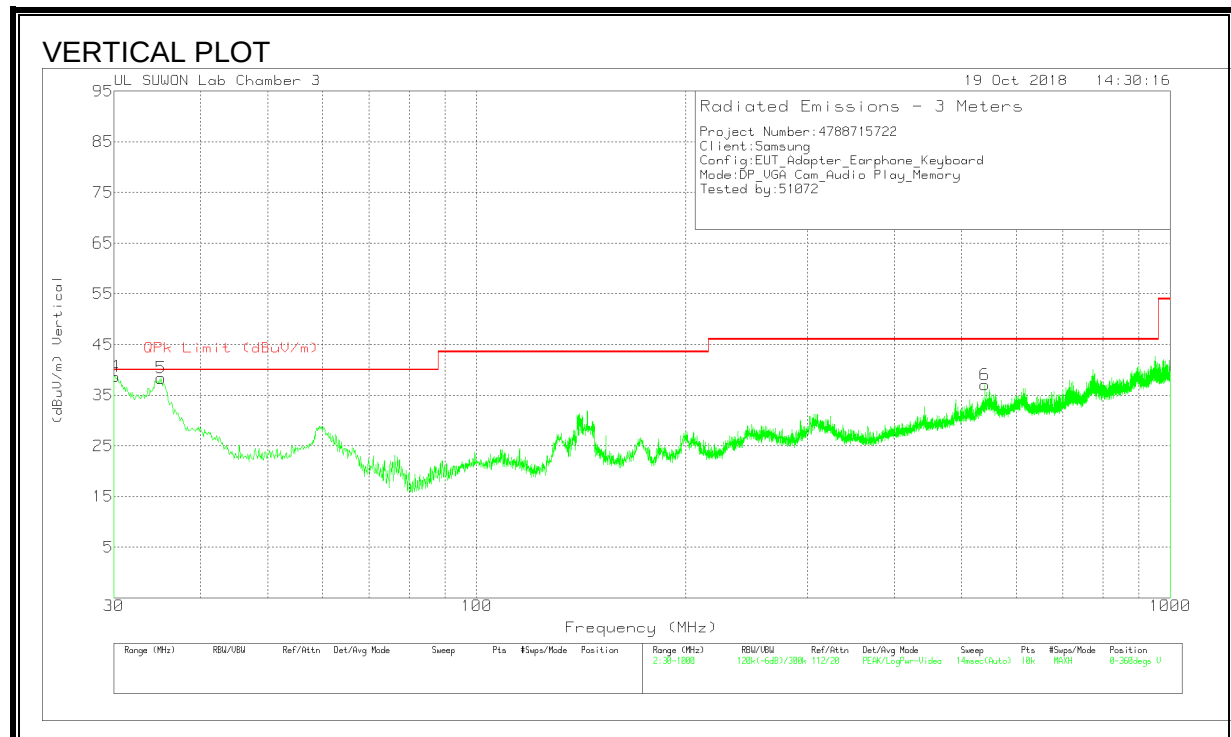
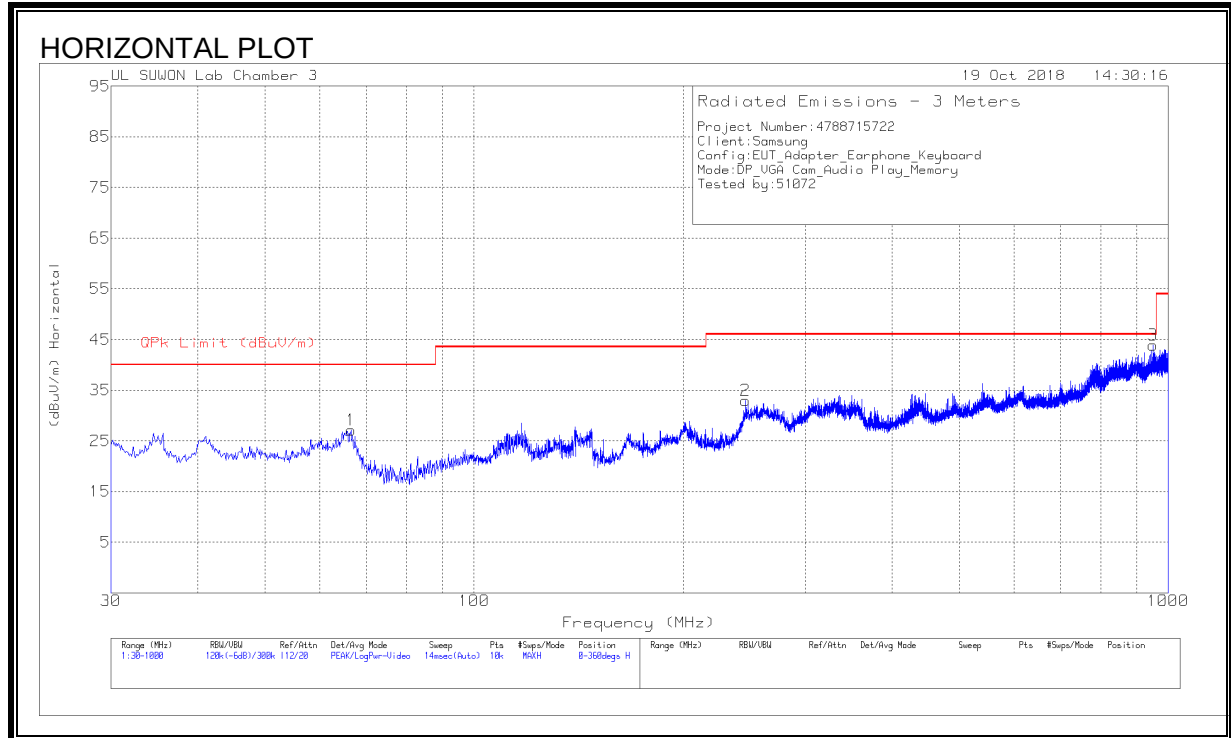
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dBμV/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.	

RESULTS

RADIATED EMISSIONS 30 TO 1000 MHz

(with Keyboard DP VGA Cam Audio Play Memory mode)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.4758	42.43	Pk	16.5	-31.8	27.13	40	-12.87	0-360	300	H
2	246.2353	45.76	Pk	18.1	-30.9	32.96	46.02	-13.06	0-360	100	H
3	951.401	43.63	Pk	28.2	-27.9	43.93	46.02	-2.09	0-360	100	H
4	30.097	54.9	Pk	15.9	-32.1	38.7	40	-1.3	0-360	100	V
5	35.0445	53.36	Pk	17	-32	38.36	40	-1.64	0-360	100	V
6	539.9816	43.68	Pk	23.6	-30.2	37.08	46.02	-8.94	0-360	100	V

Pk - Peak detector

Radiated Emissions

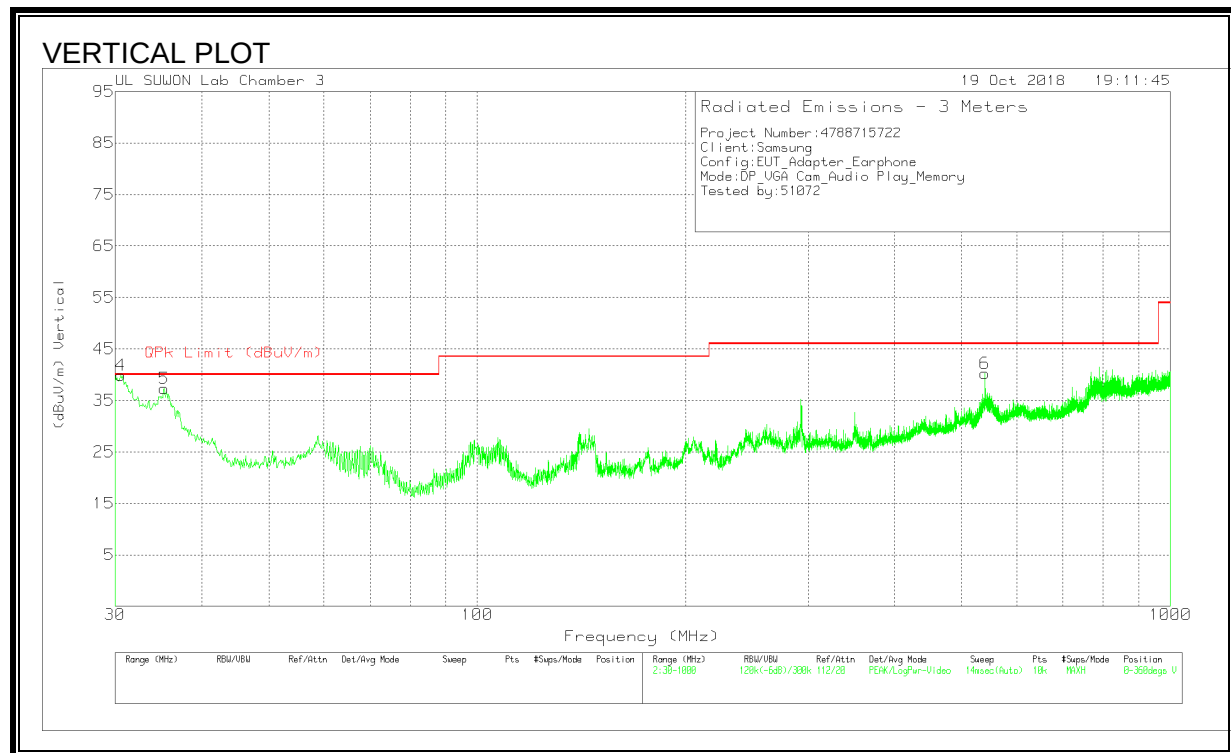
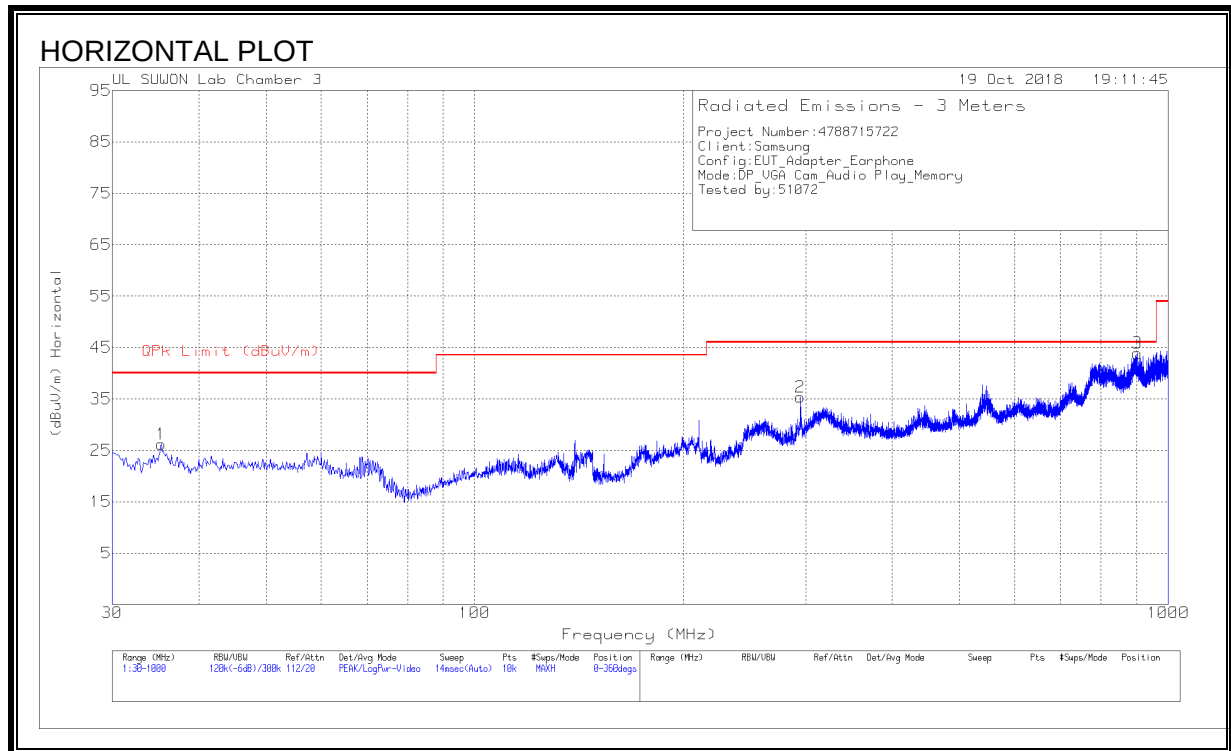
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
951.2029	32.61	Qp	28.2	-27.9	32.91	46.02	-13.11	116	257	H
30.1237	53.71	Qp	15.9	-32.1	37.51	40	-2.49	187	106	V
35.2714	50.06	Qp	17.1	-32	35.16	40	-4.84	192	122	V

Qp - Quasi-Peak detector

Note: Other frequency measurement was not performed. Because peak measurement result margin was over 6dB in 'QP' limit.

RADIATED EMISSIONS 30 TO 1000 MHz

(without Keyboard DP VGA Cam Audio Play Memory mode)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	35.3356	41.07	Pk	17.1	-32	26.17	40	-13.83	0-360	300	H
2	294.8373	46.95	Pk	19.1	-30.7	35.35	46.02	-10.67	0-360	100	H
3	902.993	44.16	Pk	28.1	-28.4	43.86	46.02	-2.16	0-360	100	H
4	30.5821	55.84	Pk	16	-32	39.84	40	-.16	0-360	100	V
5	35.3356	52.21	Pk	17.1	-32	37.31	40	-2.69	0-360	100	V
6	539.9816	46.84	Pk	23.6	-30.2	40.24	46.02	-5.78	0-360	100	V

Pk - Peak detector

Radiated Emissions

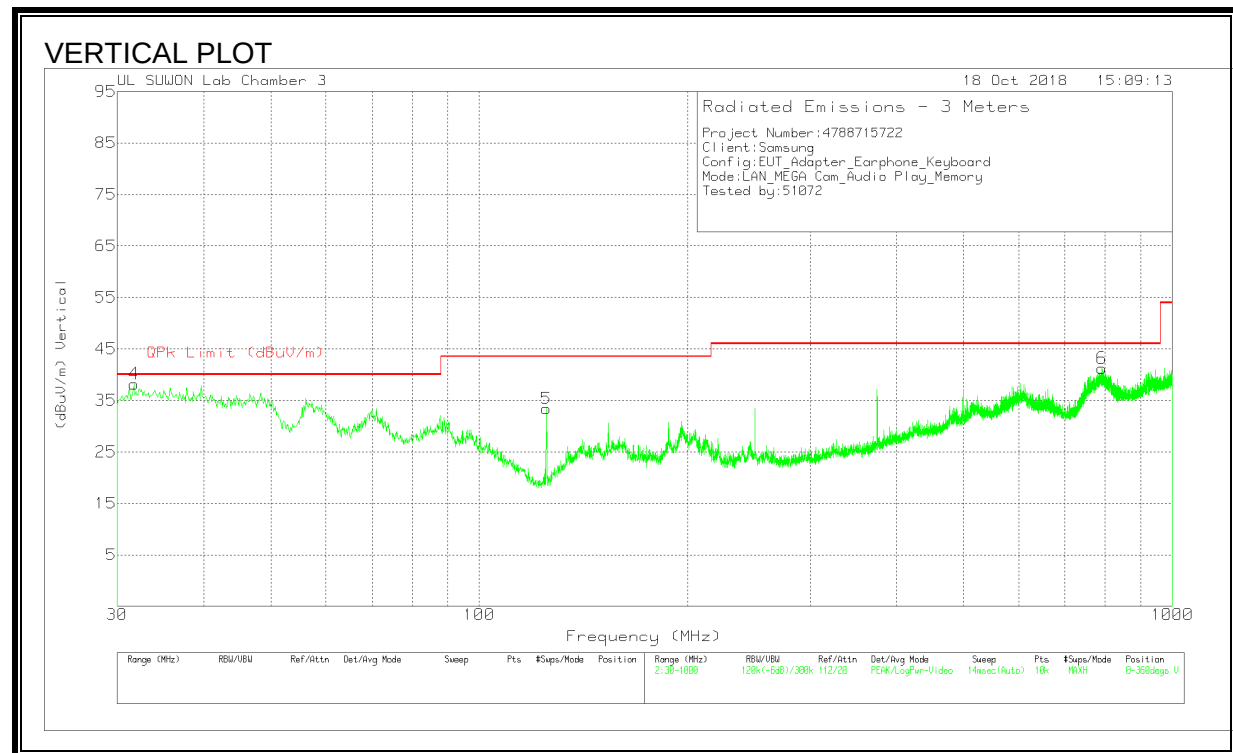
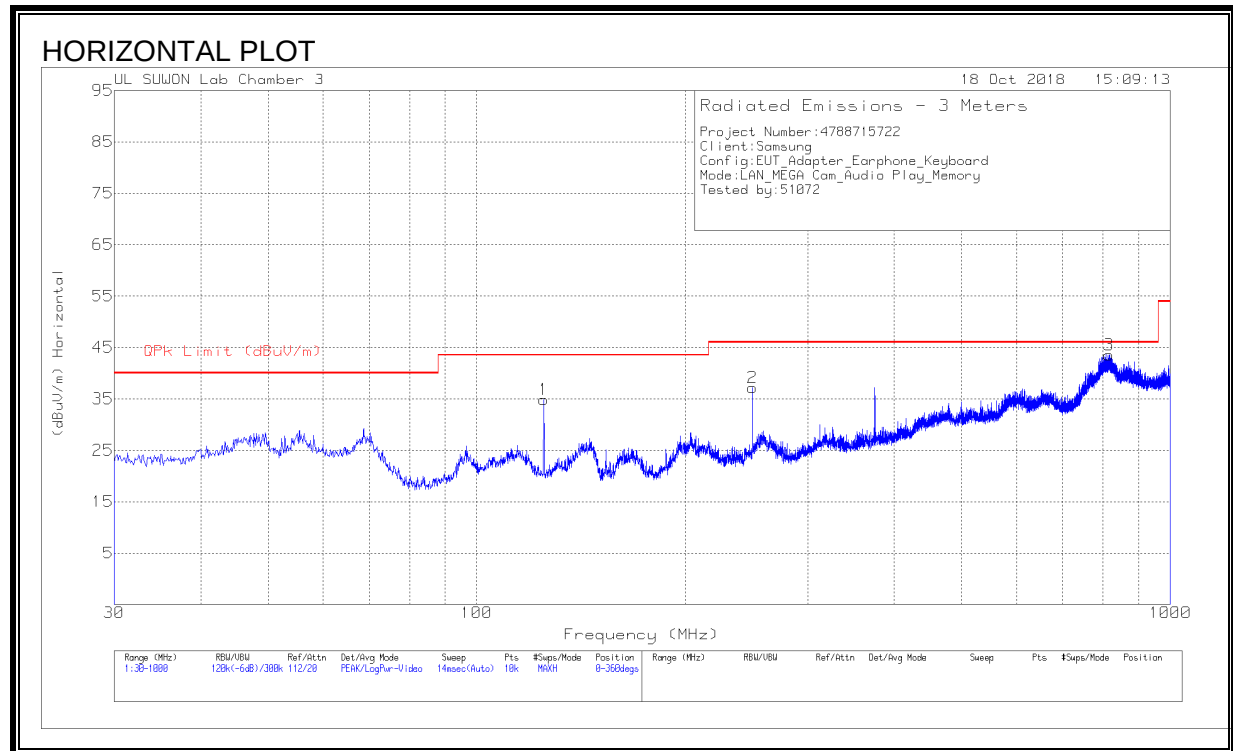
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
903.0492	36.94	Qp	28.1	-28.5	36.54	46.02	-9.48	289	171	H
30.6836	52.76	Qp	16.1	-32.3	36.56	40	-3.44	186	103	V
35.3652	50.88	Qp	17.1	-32	35.98	40	-4.02	202	124	V
540.0009	45.62	Qp	23.6	-30.2	39.02	46.02	-7	175	116	V

Qp - Quasi-Peak detector

Note: Other frequency measurement was not performed. Because peak measurement result margin was over 6dB in 'QP' limit.

RADIATED EMISSIONS 30 TO 1000 MHZ

(with Keyboard LAN MEGA Cam Audio Play Memory Mode)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	124.9728	50.95	Pk	15.3	-31.4	34.85	43.52	-8.67	0-360	300	H
2	250.0187	49.76	Pk	18.2	-30.8	37.16	46.02	-8.86	0-360	100	H
3	815.781	45.82	Pk	26.9	-29.2	43.52	46.02	-2.5	0-360	100	H
4	31.7462	54.19	Pk	16.3	-32.3	38.19	40	-1.81	0-360	100	V
5	124.9728	49.51	Pk	15.3	-31.4	33.41	43.52	-10.11	0-360	100	V
6	791.2375	43.84	Pk	26.7	-29.3	41.24	46.02	-4.78	0-360	100	V

Pk - Peak detector

Radiated Emissions

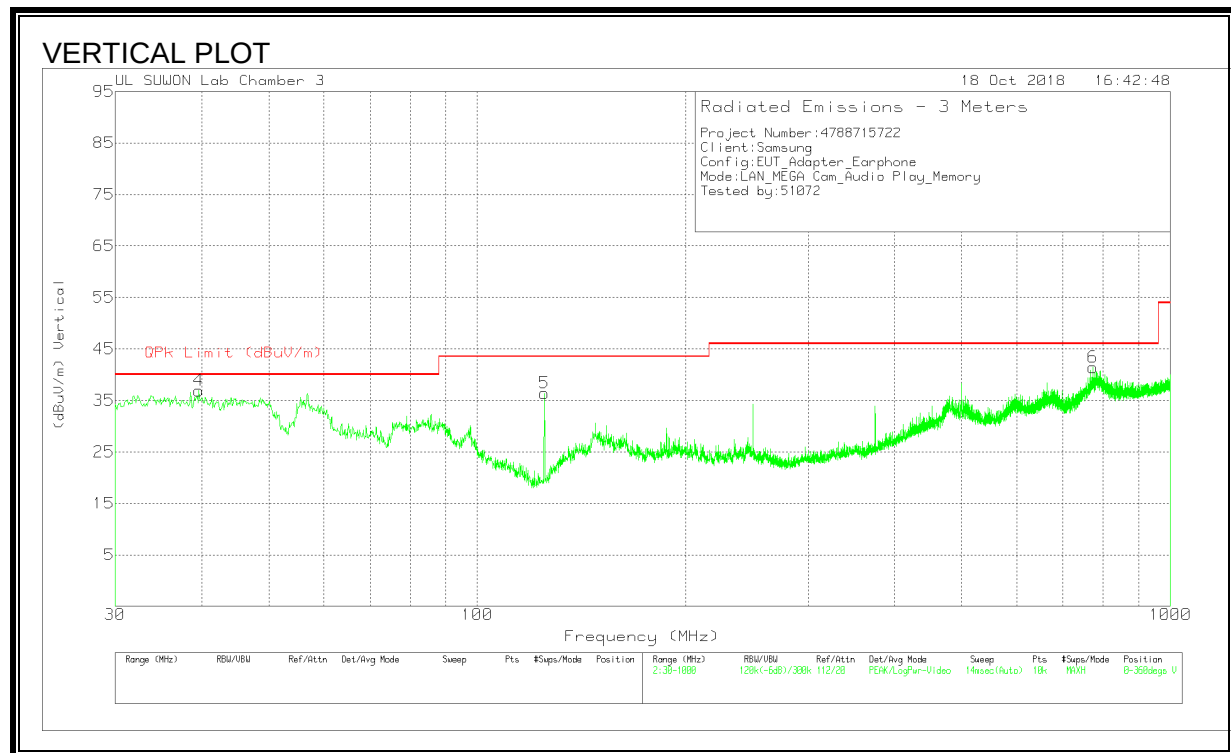
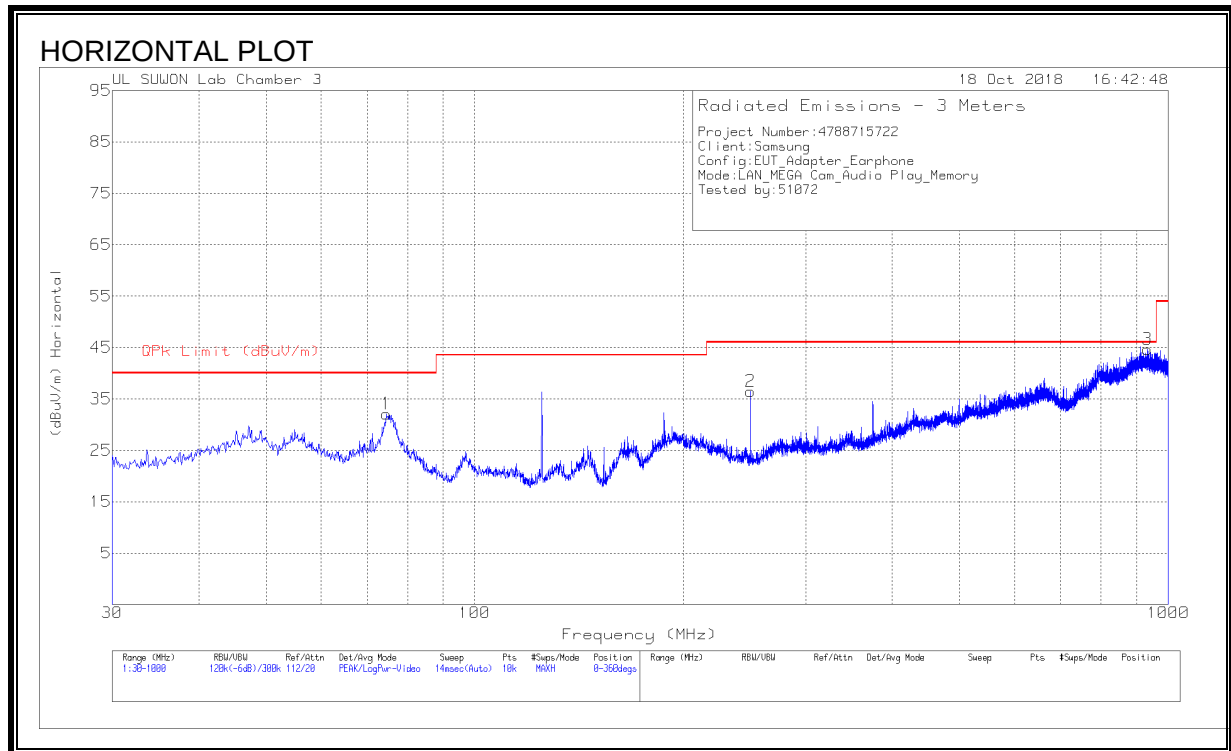
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
125.0133	48.8	Qp	15.3	-31.4	32.7	43.52	-10.82	79	214	H
249.9937	47.52	Qp	18.2	-30.8	34.92	46.02	-11.1	150	118	H
815.7904	38.92	Qp	26.9	-29.2	36.62	46.02	-9.4	70	100	H
31.6537	46.48	Qp	16.3	-32	30.78	40	-9.22	102	174	V
124.9996	48.95	Qp	15.3	-31.4	32.85	43.52	-10.67	187	102	V
791.1588	37.39	Qp	26.7	-29.4	34.69	46.02	-11.33	290	103	V

Qp - Quasi-Peak detector

Note: Other frequency measurement was not performed. Because peak measurement result margin was over 6dB in 'QP' limit.

RADIATED EMISSIONS 30 TO 1000 MHz

(without Keyboard LAN MEGA Cam Audio Play Memory Mode)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	74.5276	50.3	Pk	13.6	-31.8	32.1	40	-7.9	0-360	200	H
2	250.0187	49.08	Pk	18.2	-30.8	36.48	46.02	-9.54	0-360	100	H
3	932.6781	44.59	Pk	28.2	-28.1	44.69	46.02	-1.33	0-360	100	H
4	39.604	50	Pk	18.8	-31.9	36.9	40	-3.1	0-360	100	V
5	124.9728	52.5	Pk	15.3	-31.4	36.4	43.52	-7.12	0-360	100	V
6	773.6787	44.01	Pk	26.8	-29.4	41.41	46.02	-4.61	0-360	100	V

Pk - Peak detector

Radiated Emissions

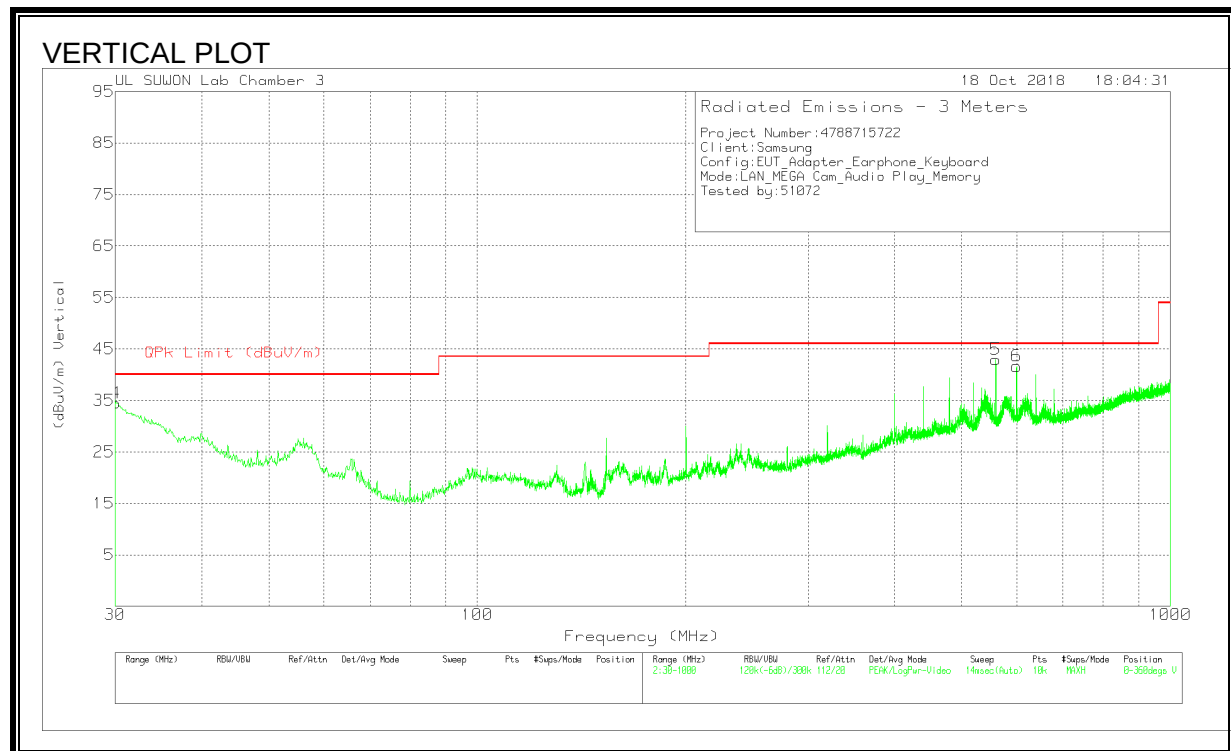
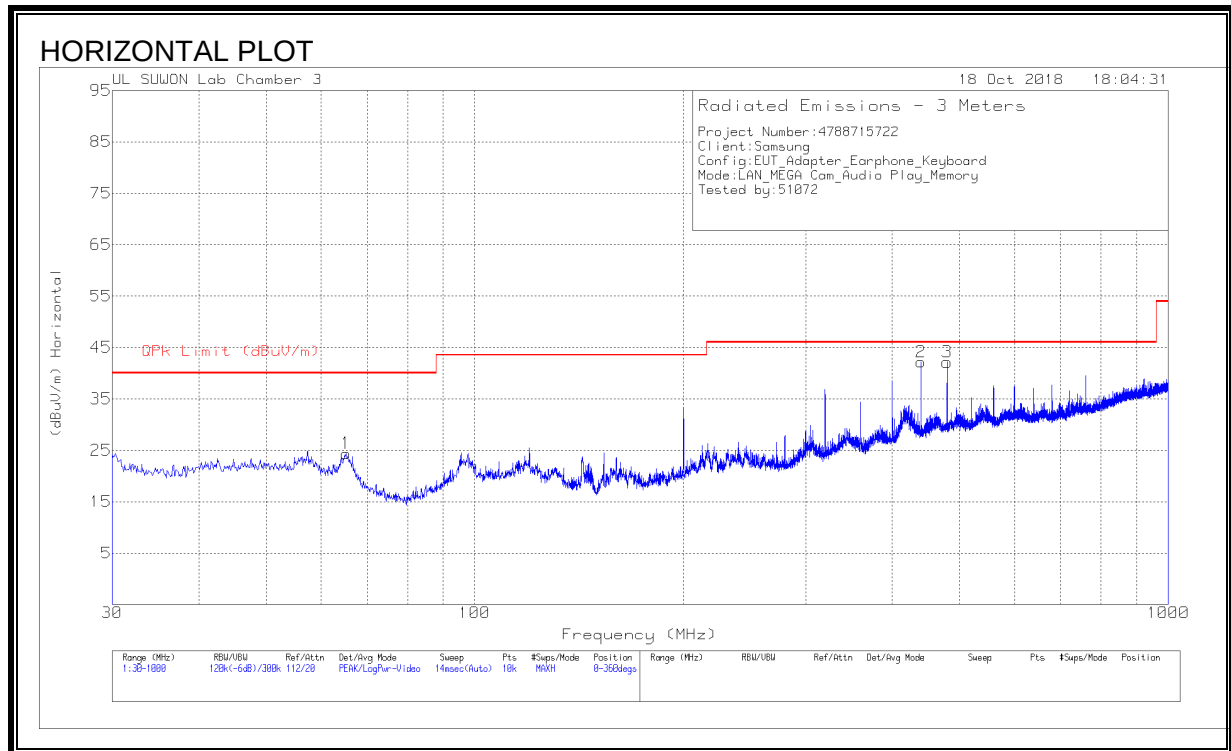
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
74.6389	45.45	Qp	13.5	-31.9	27.05	40	-12.95	1	246	H
250.0148	47.86	Qp	18.2	-30.8	35.26	46.02	-10.76	354	124	H
932.5404	39.39	Qp	28.2	-28.1	39.49	46.02	-6.53	325	103	H
39.6157	44.01	Qp	18.8	-32	30.81	40	-9.19	84	108	V
125.0128	50.65	Qp	15.3	-31.4	34.55	43.52	-8.97	211	100	V
773.5674	36.02	Qp	26.8	-29.4	33.42	46.02	-12.6	236	100	V

Qp - Quasi-Peak detector

Note: Other frequency measurement was not performed. Because peak measurement result margin was over 6dB in 'QP' limit.

RADIATED EMISSIONS 30 TO 1000 MHz

(with Keyboard ExUSB MEGA Cam Audio Play Memory)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.2146	39.19	Pk	17	-31.8	24.39	40	-15.61	0-360	400	H
2	439.9643	50.38	Pk	22.2	-30.4	42.18	46.02	-3.84	0-360	100	H
3	479.9324	49.65	Pk	22.8	-30.3	42.15	46.02	-3.87	0-360	200	H
4	30.097	50.69	Pk	15.9	-32.1	34.49	40	-5.51	0-360	100	V
5	559.9656	49.15	Pk	23.9	-30.1	42.95	46.02	-3.07	0-360	100	V
6	600.0308	46.45	Pk	25.3	-30.1	41.65	46.02	-4.37	0-360	100	V

Pk - Peak detector

Radiated Emissions

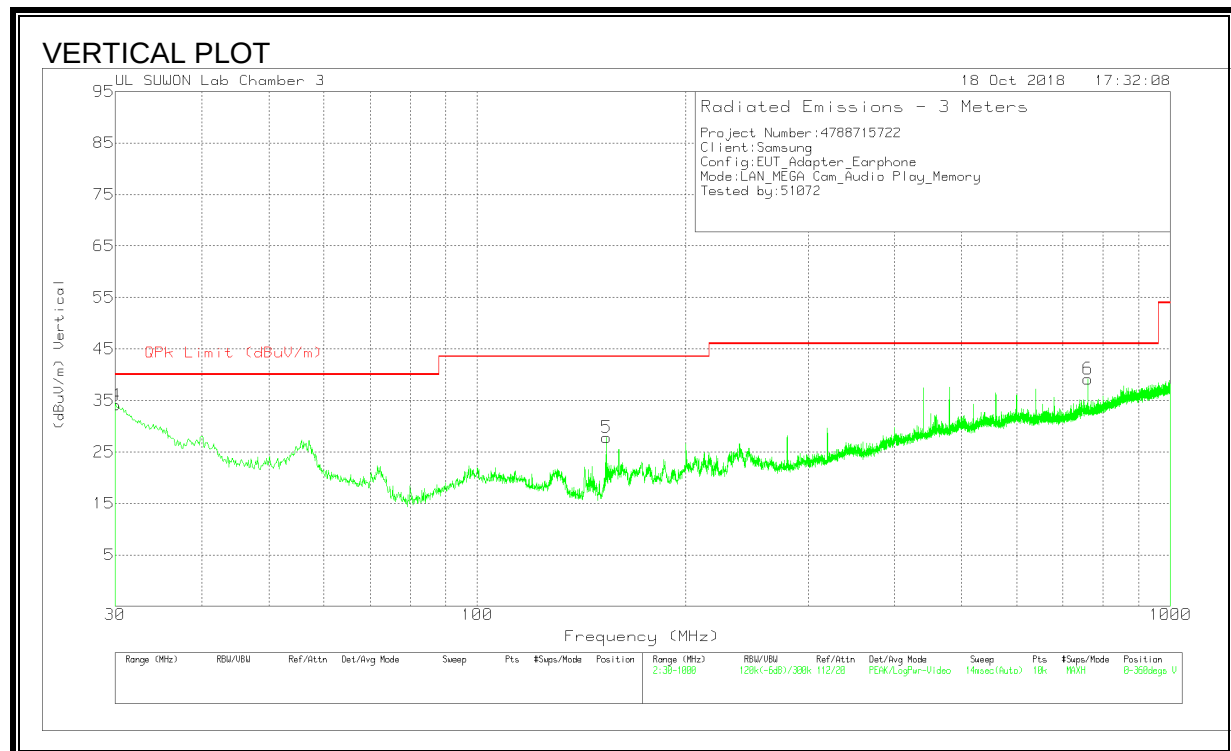
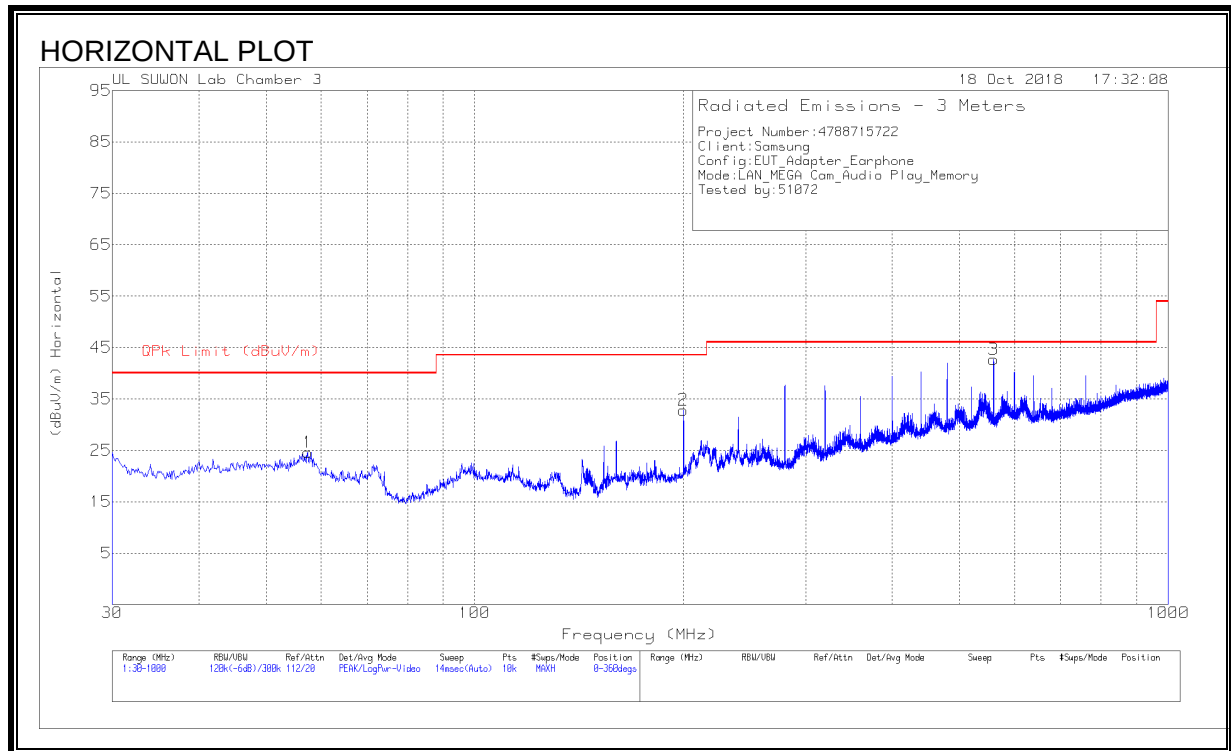
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
440.0004	47.3	Qp	22.2	-30.4	39.1	46.02	-6.92	122	218	H
480.0051	43	Qp	22.8	-30.3	35.5	46.02	-10.52	67	218	H
30.0523	48.89	Qp	15.9	-32.1	32.69	40	-7.31	343	100	V
559.9935	47.69	Qp	23.9	-30.1	41.49	46.02	-4.53	151	103	V
600.007	43.78	Qp	25.3	-30.1	38.98	46.02	-7.04	152	101	V

Qp - Quasi-Peak detector

Note: Other frequency measurement was not performed. Because peak measurement result margin was over 6dB in 'QP' limit.

RADIATED EMISSIONS 30 TO 1000 MHz

(without Keyboard ExUSB MEGA Cam Audio Play Memory)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	57.4538	37.4	Pk	19.1	-31.9	24.6	40	-15.4	0-360	400	H
2	199.9615	47.14	Pk	16.9	-31.2	32.84	43.52	-10.68	0-360	100	H
3	559.9656	48.89	Pk	23.9	-30.1	42.69	46.02	-3.33	0-360	200	H
4	30.097	50.31	Pk	15.9	-32.1	34.11	40	-5.89	0-360	100	V
5	153.4937	44.72	Pk	14.4	-31.3	27.82	43.52	-15.7	0-360	100	V
6	760.0003	41.78	Pk	26.9	-29.5	39.18	46.02	-6.84	0-360	100	V

Pk - Peak detector

Radiated Emissions

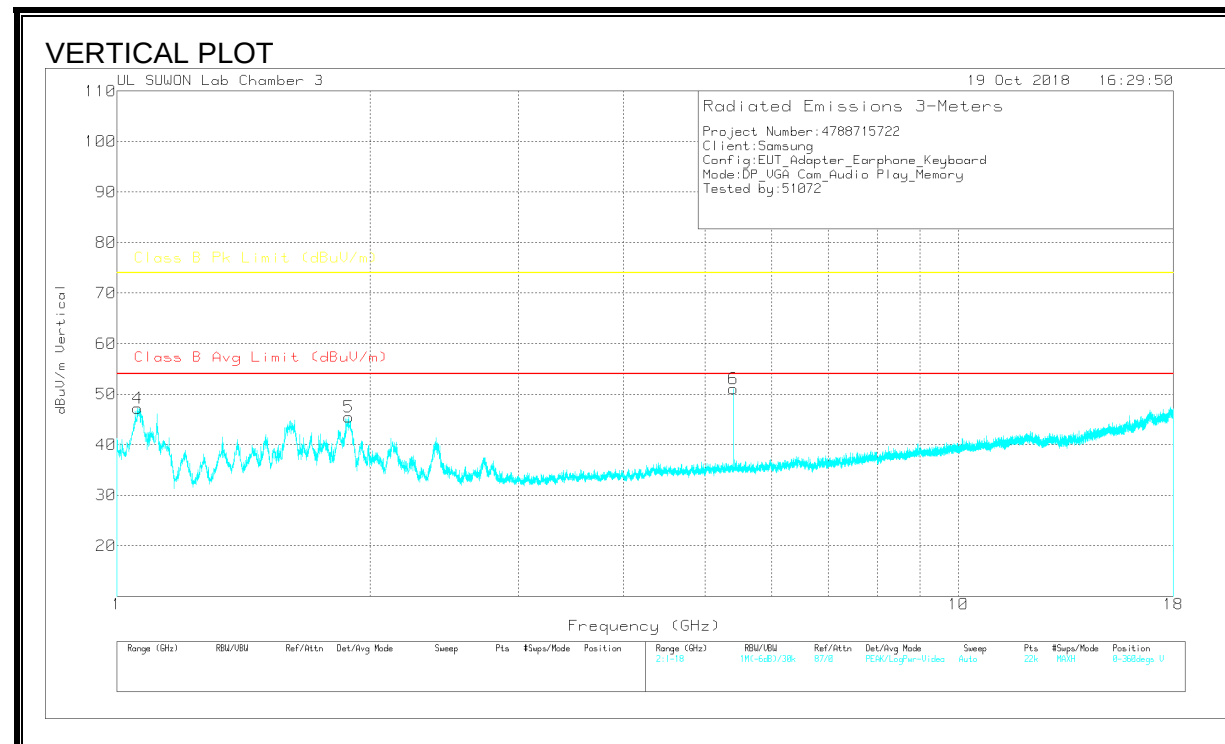
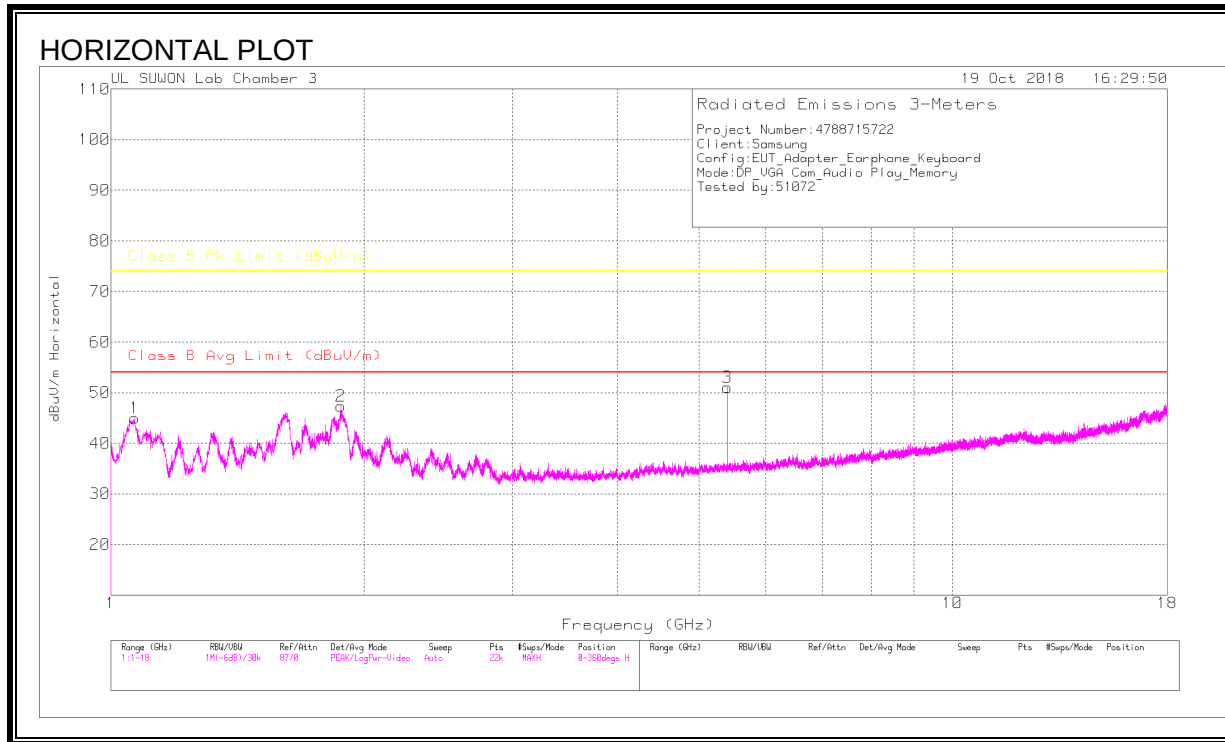
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-845	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
560.0733	43.21	Qp	23.9	-30.1	37.01	46.02	-9.01	208	186	H
30.057	48.14	Qp	15.9	-32.1	31.94	40	-8.06	360	110	V
760.0349	37.73	Qp	26.9	-29.5	35.13	46.02	-10.89	301	187	V

Qp - Quasi-Peak detector

Note: Other frequency measurement was not performed. Because peak measurement result margin was over 6dB in 'QP' limit.

RADIATED EMISSIONS 1GHz to 18GHz

(with Keyboard DP VGA Cam Audio Play Memory mode)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.066	51.6	Avg	27.9	-34.5	45	-	-	74	-29	0-360	100	H
2	1.877	50.03	Avg	30.5	-33.2	47.33	-	-	74	-26.67	0-360	100	H
3	5.4	44.89	Avg	34.7	-28.5	51.09	-	-	74	-22.91	0-360	201	H
4	1.059	53.78	Avg	27.9	-34.5	47.18	-	-	74	-26.82	0-360	100	V
5	1.885	48.04	Avg	30.6	-33.2	45.44	-	-	74	-28.56	0-360	100	V
6	5.4	44.61	Avg	34.7	-28.2	51.11	-	-	74	-22.89	0-360	200	V

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.067	36.93	Ca	27.9	-34.5	30.33	54	-23.67	-	-	235	114	H
1.067	48.05	Pk	27.9	-34.5	41.45	-	-	74	-32.55	235	114	H
1.877	34.78	Ca	30.5	-33.2	32.08	54	-21.92	-	-	17	182	H
1.877	45.91	Pk	30.5	-33.2	43.21	-	-	74	-30.79	17	182	H
5.4	42.1	Ca	34.7	-28.5	48.3	54	-5.7	-	-	13	188	H
5.4	43.83	Pk	34.7	-28.5	50.03	-	-	74	-23.97	13	188	H
1.059	39.57	Ca	27.9	-34.5	32.97	54	-21.03	-	-	179	108	V
1.059	50.76	Pk	27.9	-34.5	44.16	-	-	74	-29.84	179	108	V
1.885	32.5	Ca	30.6	-33.2	29.9	54	-24.1	-	-	237	396	V
1.885	43.21	Pk	30.6	-33.2	40.61	-	-	74	-33.39	237	396	V
5.401	23.93	Ca	34.7	-28.2	30.43	54	-23.57	-	-	247	114	V
5.401	34.5	Pk	34.7	-28.2	41	-	-	74	-33	247	114	V

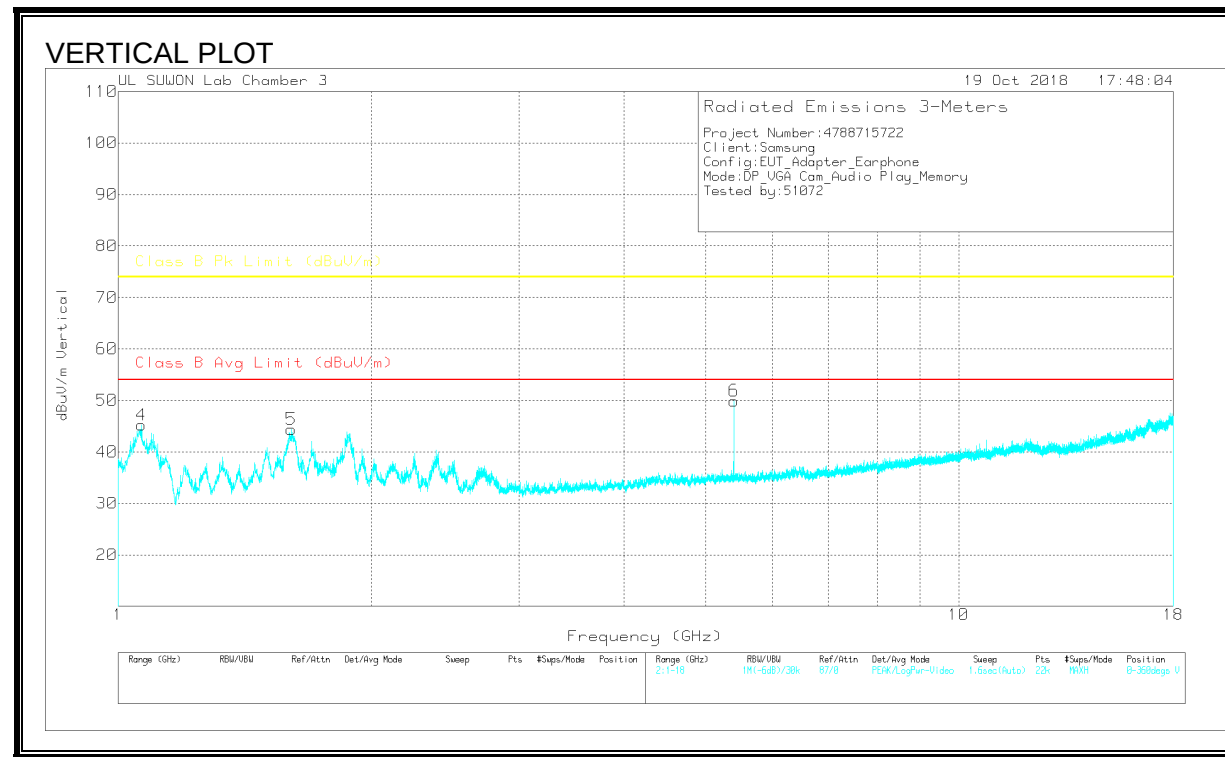
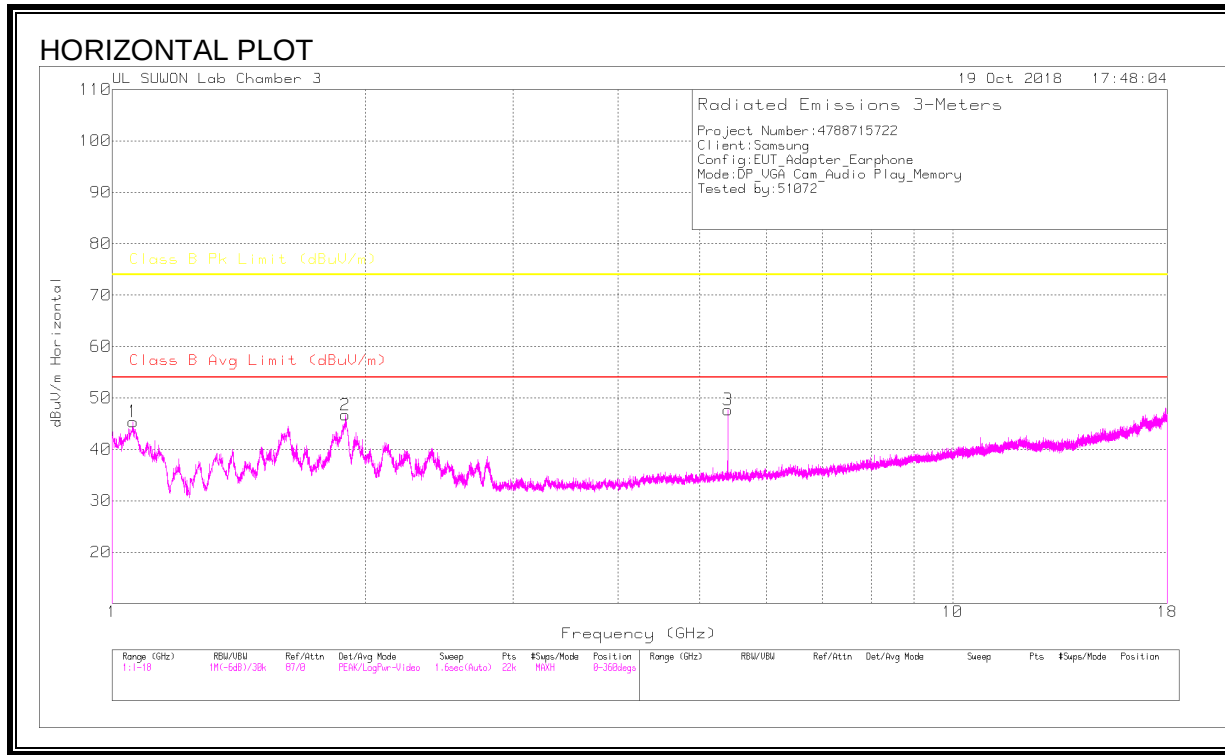
Pk - Peak detector

Ca - CISPR average detection

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 1GHz to 18GHz

(without Keyboard DP VGA Cam Audio Play Memory mode)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.059	51.99	Avg	27.9	-34.5	45.39	-	-	74	-28.61	0-360	100	H
2	1.894	49.17	Avg	30.7	-33.2	46.67	-	-	74	-27.33	0-360	200	H
3	5.4	41.49	Avg	34.7	-28.5	47.69	-	-	74	-26.31	0-360	200	H
4	1.066	51.81	Avg	27.9	-34.5	45.21	-	-	74	-28.79	0-360	200	V
5	1.607	49.79	Avg	28.3	-33.7	44.39	-	-	74	-29.61	0-360	200	V
6	5.4	43.4	Avg	34.7	-28.2	49.9	-	-	74	-24.1	0-360	200	V

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.059	39.14	Ca	27.9	-34.5	32.54	54	-21.46	-	-	344	229	H
1.059	50.21	Pk	27.9	-34.5	43.61	-	-	74	-30.39	344	229	H
1.894	35.87	Ca	30.7	-33.2	33.37	54	-20.63	-	-	24	106	H
1.894	46.76	Pk	30.7	-33.2	44.26	-	-	74	-29.74	24	106	H
5.401	23.92	Ca	34.7	-28.5	30.12	54	-23.88	-	-	238	116	H
5.401	36.17	Pk	34.7	-28.5	42.37	-	-	74	-31.63	238	116	H
1.066	37.53	Ca	27.9	-34.5	30.93	54	-23.07	-	-	318	151	V
1.066	48.85	Pk	27.9	-34.5	42.25	-	-	74	-31.75	318	151	V
1.607	32.35	Ca	28.3	-33.6	27.05	54	-26.95	-	-	216	106	V
1.607	44.4	Pk	28.3	-33.6	39.1	-	-	74	-34.9	216	106	V
5.401	24.41	Ca	34.7	-28.2	30.91	54	-23.09	-	-	243	114	V
5.401	34.77	Pk	34.7	-28.2	41.27	-	-	74	-32.73	243	114	V

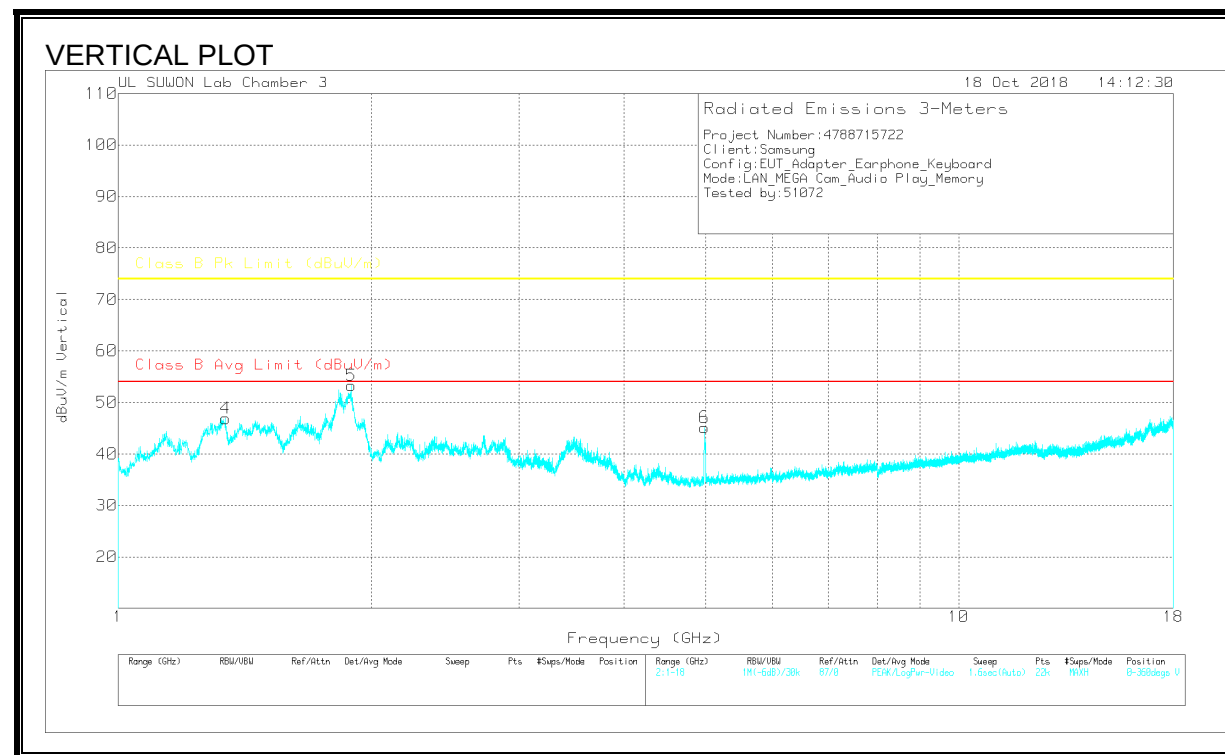
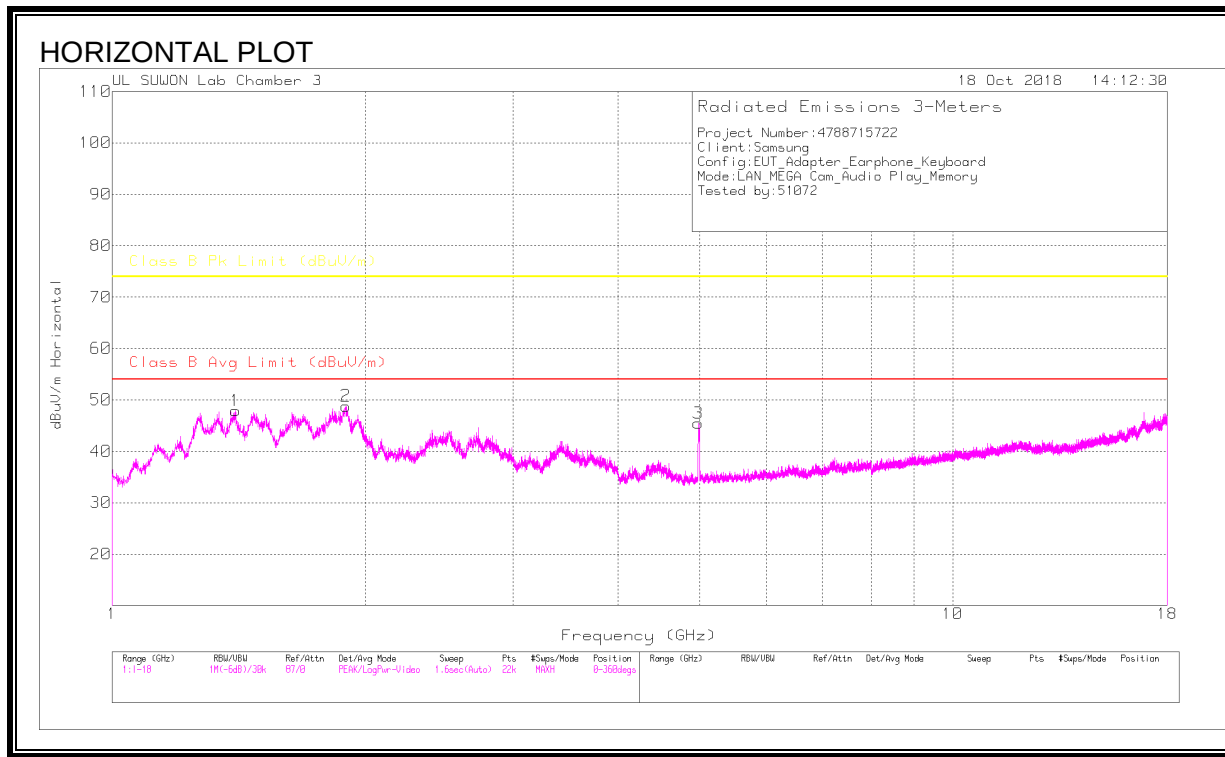
Pk - Peak detector

Ca - CISPR average detection

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 1GHz to 18GHz

(with Keyboard LAN MEGA Cam Audio Play Memory mode)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.403	52.48	Avg	29.3	-33.9	47.88	-	-	74	-26.12	0-360	400	H
2	1.897	51.31	Avg	30.7	-33.2	48.81	-	-	74	-25.19	0-360	300	H
3	4.98	40.27	Avg	34.2	-29	45.47	-	-	74	-28.53	0-360	400	H
4	1.343	51.19	Avg	29.6	-33.9	46.89	-	-	74	-27.11	0-360	300	V
5	1.894	55.76	Avg	30.7	-33.2	53.26	-	-	74	-20.74	0-360	300	V
6	4.982	39.63	Avg	34.2	-28.7	45.13	-	-	74	-28.87	0-360	300	V

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.403	41.87	Ca	29.3	-33.9	37.27	54	-16.73	-	-	78	373	H
1.403	53.66	Pk	29.3	-33.9	49.06	-	-	74	-24.94	78	373	H
1.897	37.04	Ca	30.7	-33.2	34.54	54	-19.46	-	-	211	335	H
1.897	48.54	Pk	30.7	-33.2	46.04	-	-	74	-27.96	211	335	H
4.98	26.86	Ca	34.2	-29	32.06	54	-21.94	-	-	6	106	H
4.98	43.17	Pk	34.2	-29	48.37	-	-	74	-25.63	6	106	H
1.343	34.5	Ca	29.6	-33.9	30.2	54	-23.8	-	-	121	269	V
1.343	45.9	Pk	29.6	-33.9	41.6	-	-	74	-32.4	121	269	V
1.894	41.96	Ca	30.7	-33.2	39.46	54	-14.54	-	-	217	368	V
1.894	53.56	Pk	30.7	-33.2	51.06	-	-	74	-22.94	217	368	V
4.982	28.95	Ca	34.2	-28.7	34.45	54	-19.55	-	-	222	116	V
4.982	42.68	Pk	34.2	-28.7	48.18	-	-	74	-25.82	222	116	V

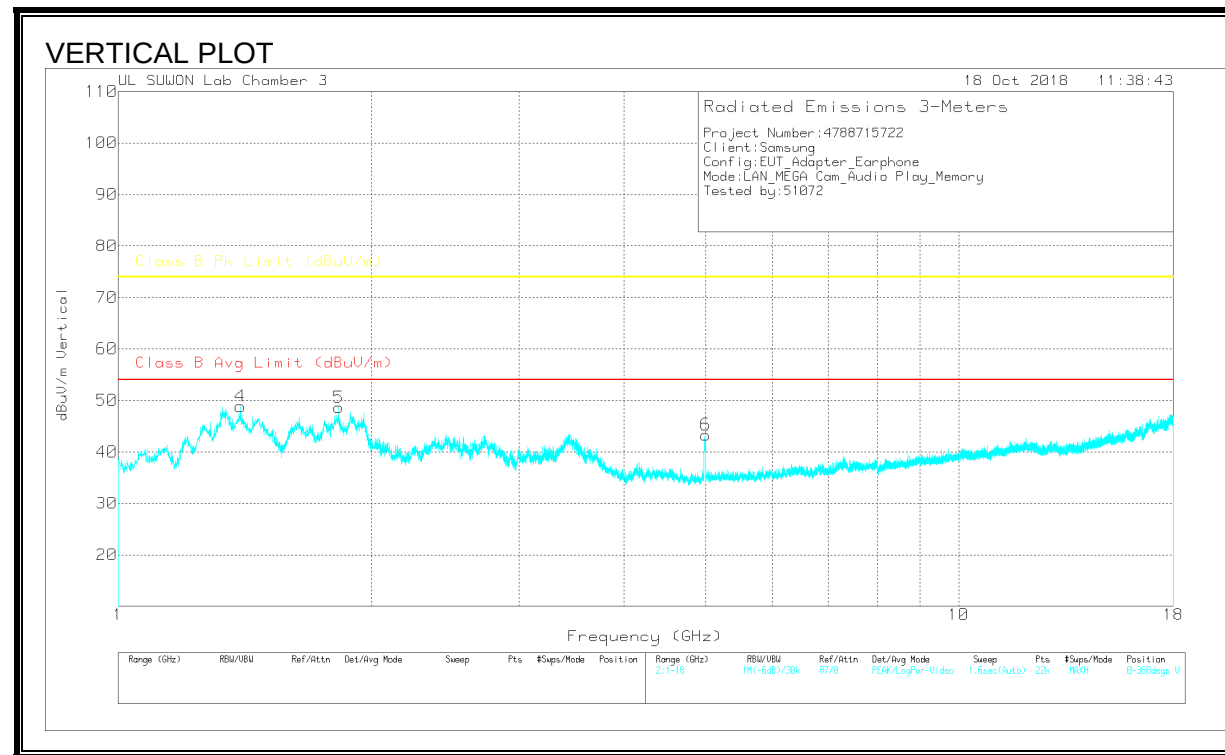
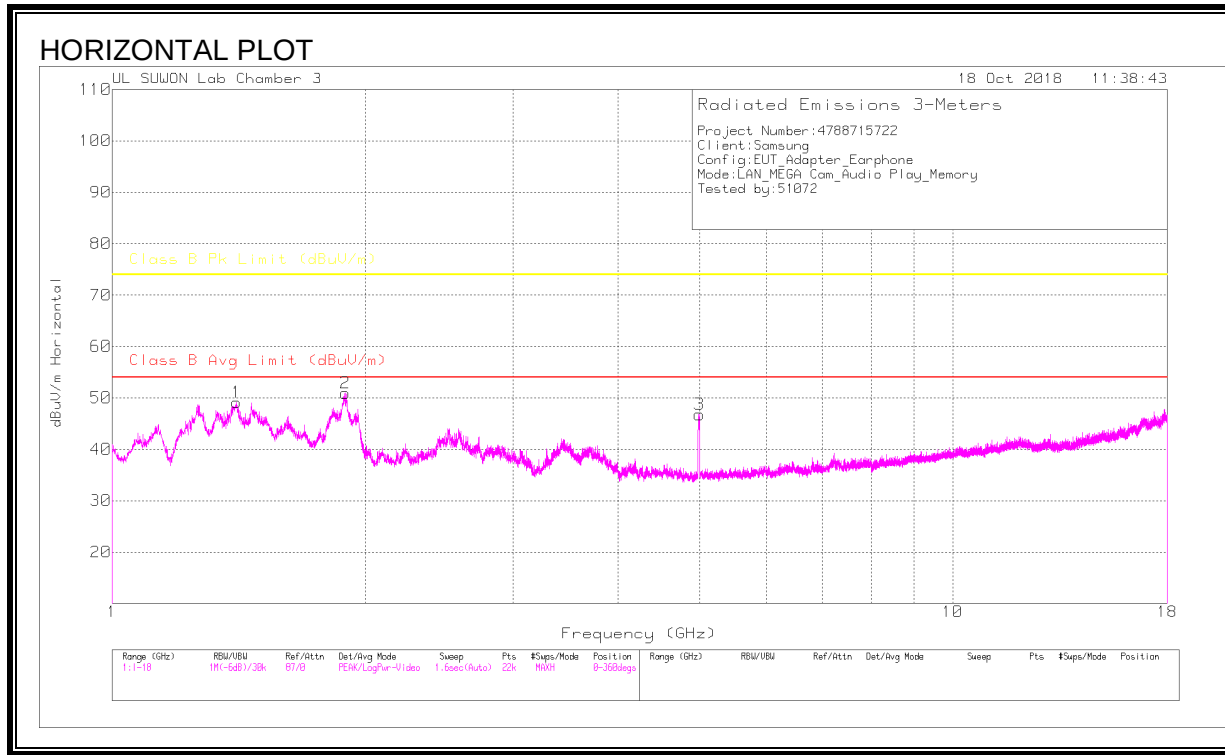
Pk - Peak detector

Ca - CISPR average detection

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 1GHz to 18GHz

(without Keyboard LAN MEGA Cam Audio Play Memory mode)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.407	53.63	Avg	29.3	-33.8	49.13	-	-	74	-24.87	0-360	100	H
2	1.893	53.42	Avg	30.7	-33.2	50.92	-	-	74	-23.08	0-360	200	H
3	4.997	41.47	Avg	34.2	-28.9	46.77	-	-	74	-27.23	0-360	100	H
4	1.398	53.34	Avg	29.4	-33.9	48.84	-	-	74	-25.16	0-360	200	V
5	1.831	51.93	Avg	30	-33.3	48.63	-	-	74	-25.37	0-360	200	V
6	4.998	37.82	Avg	34.2	-28.7	43.32	-	-	74	-30.68	0-360	100	V

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.407	43.26	Ca	29.3	-33.8	38.76	54	-15.24	-	-	35	109	H
1.407	55.08	Pk	29.3	-33.8	50.58	-	-	74	-23.42	35	109	H
1.893	39.98	Ca	30.7	-33.2	37.48	54	-16.52	-	-	24	397	H
1.893	52.22	Pk	30.7	-33.2	49.72	-	-	74	-24.28	24	397	H
4.997	30.78	Ca	34.2	-28.9	36.08	54	-17.92	-	-	19	298	H
4.997	45.46	Pk	34.2	-28.9	50.76	-	-	74	-23.24	19	298	H
1.398	39.88	Ca	29.4	-33.9	35.38	54	-18.62	-	-	113	126	V
1.398	51.41	Pk	29.4	-33.9	46.91	-	-	74	-27.09	113	126	V
1.831	38.1	Ca	30	-33.3	34.8	54	-19.2	-	-	153	136	V
1.831	48.79	Pk	30	-33.3	45.49	-	-	74	-28.51	153	136	V
4.998	24.79	Ca	34.2	-28.7	30.29	54	-23.71	-	-	26	397	V
4.998	40.48	Pk	34.2	-28.7	45.98	-	-	74	-28.02	26	397	V

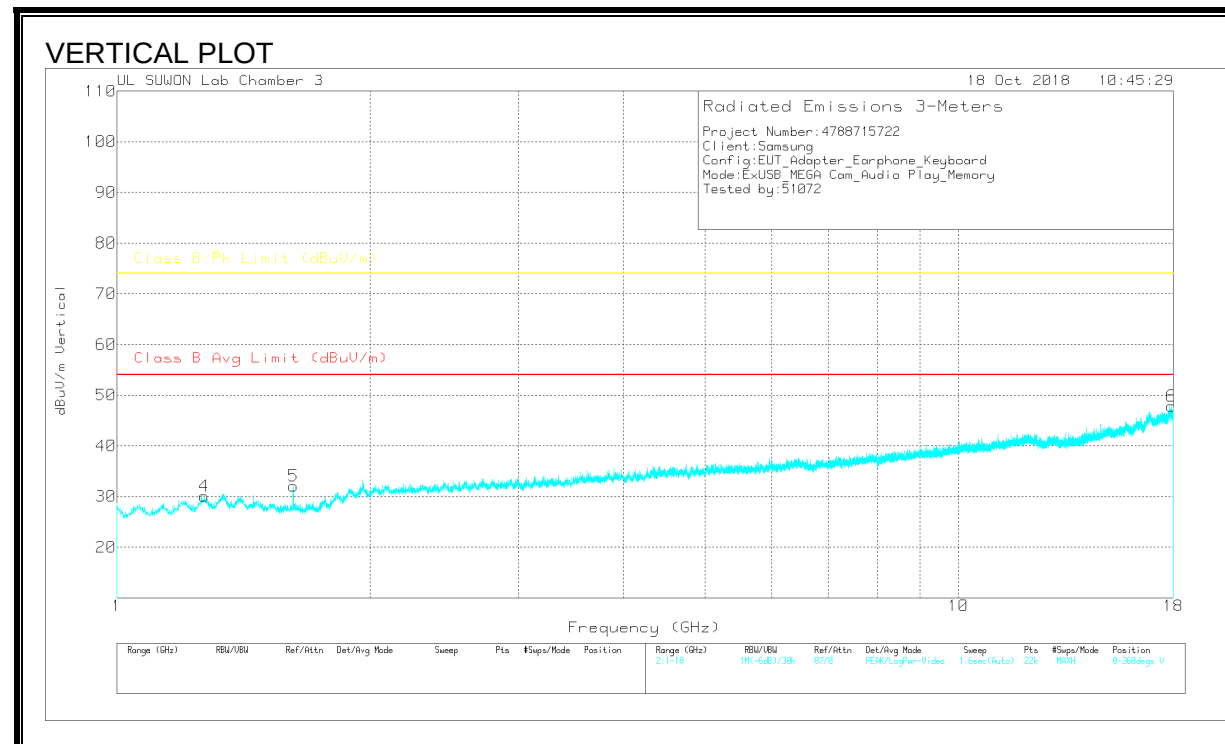
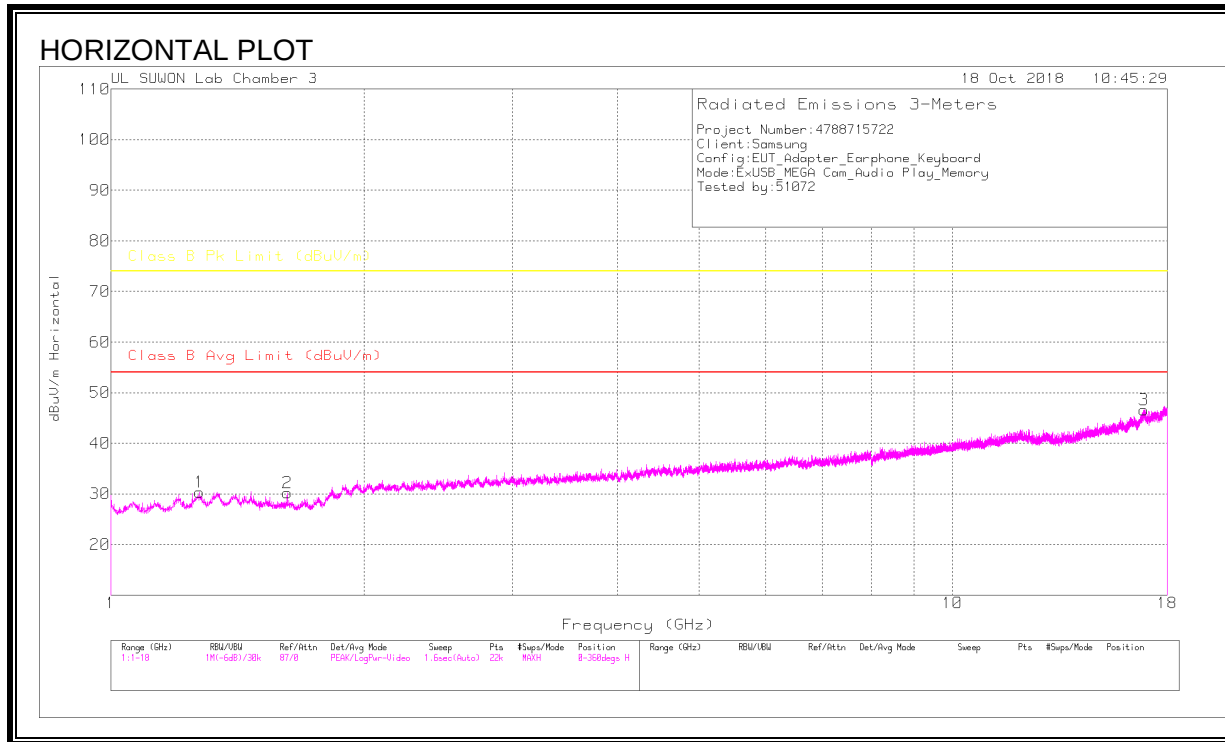
Pk - Peak detector

Ca - CISPR average detection

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 1GHz to 18GHz

(with Keyboard ExUSB MEGA Cam Audio Play Memory mode)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.274	35.03	Avg	29.3	-34	30.33	-	-	74	-43.67	0-360	200	H
2	1.62	35.42	Avg	28.3	-33.5	30.22	-	-	74	-43.78	0-360	200	H
3	16.889	21.77	Avg	41.6	-16.8	46.57	-	-	74	-27.43	0-360	200	H
4	1.27	34.93	Avg	29.3	-34.1	30.13	-	-	74	-43.87	0-360	200	V
5	1.62	37.26	Avg	28.3	-33.5	32.06	-	-	74	-41.94	0-360	200	V
6	17.913	20.55	Avg	41.3	-14	47.85	-	-	74	-26.15	0-360	100	V

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.62	20.83	Ca	28.3	-33.5	15.63	54	-38.37	-	-	159	117	H
1.62	32.94	Pk	28.3	-33.5	27.74	-	-	74	-46.26	159	117	H
1.62	20.8	Ca	28.3	-33.5	15.6	54	-38.4	-	-	41	134	V
1.62	32.75	Pk	28.3	-33.5	27.55	-	-	74	-46.45	41	134	V

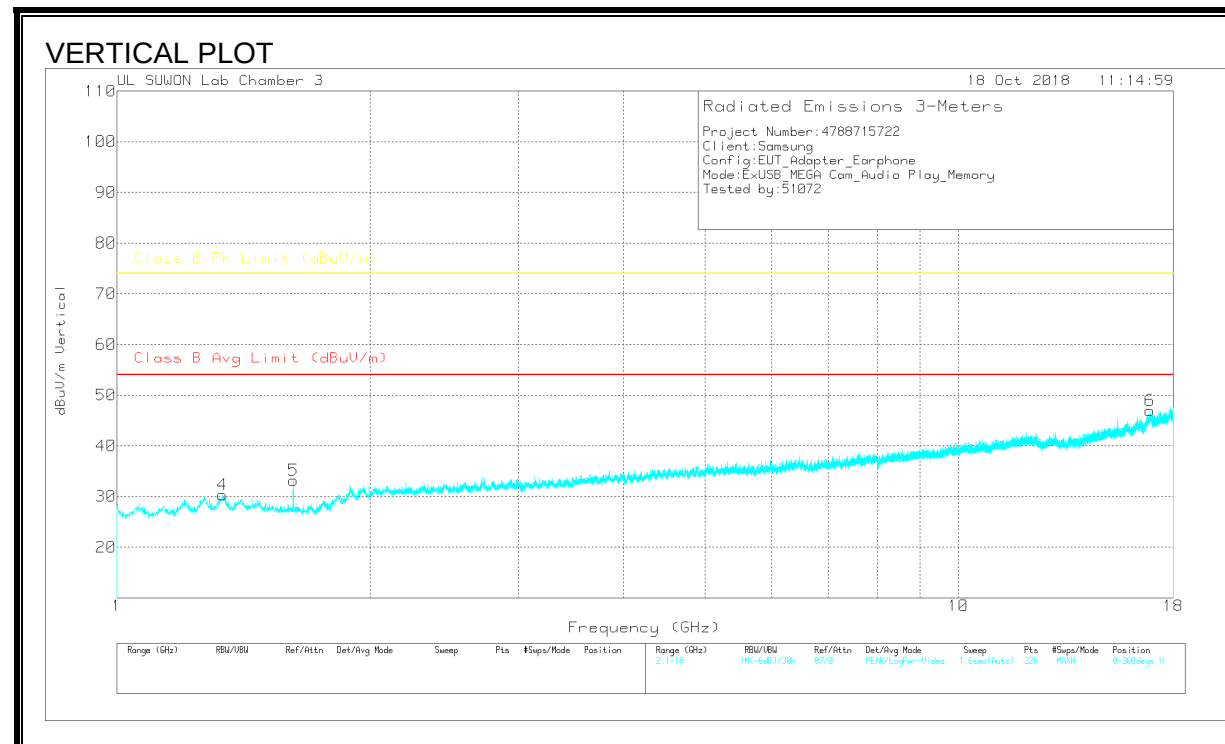
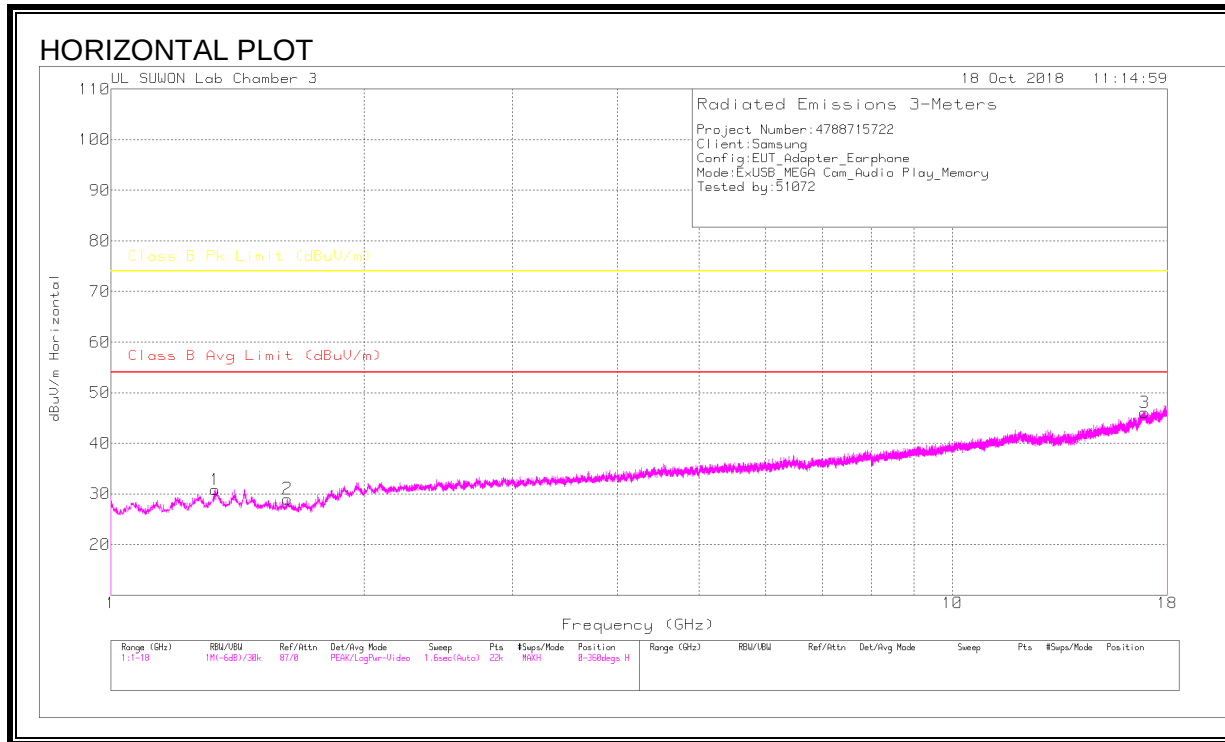
Pk - Peak detector

Ca - CISPR average detection

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 1GHz to 18GHz

(without Keyboard ExUSB MEGA Cam Audio Play Memory mode)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.331	35.17	Avg	29.6	-34	30.77	-	-	74	-43.23	0-360	100	H
2	1.62	34.22	Avg	28.3	-33.5	29.02	-	-	74	-44.98	0-360	100	H
3	16.927	21.26	Avg	41.7	-16.9	46.06	-	-	74	-27.94	0-360	100	H
4	1.335	34.68	Avg	29.6	-33.9	30.38	-	-	74	-43.62	0-360	200	V
5	1.62	38.41	Avg	28.3	-33.5	33.21	-	-	74	-40.79	0-360	200	V
6	16.88	22.29	Avg	41.6	-16.9	46.99	-	-	74	-27.01	0-360	200	V

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

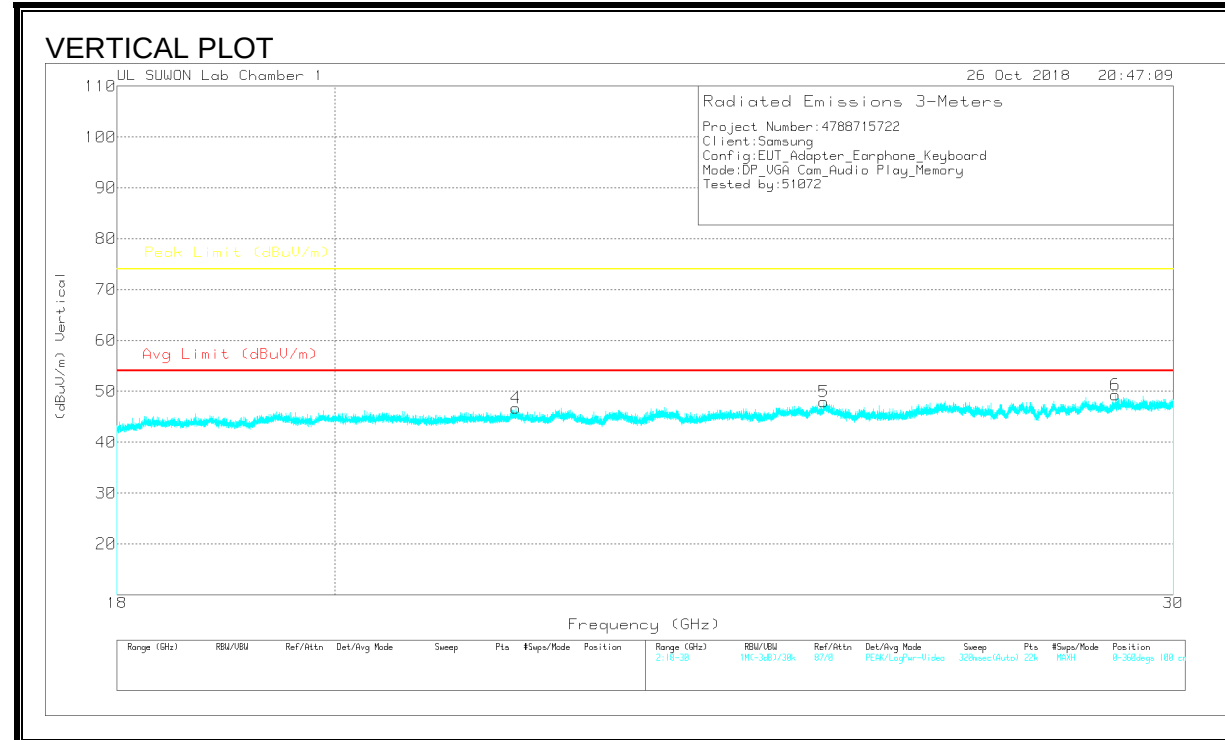
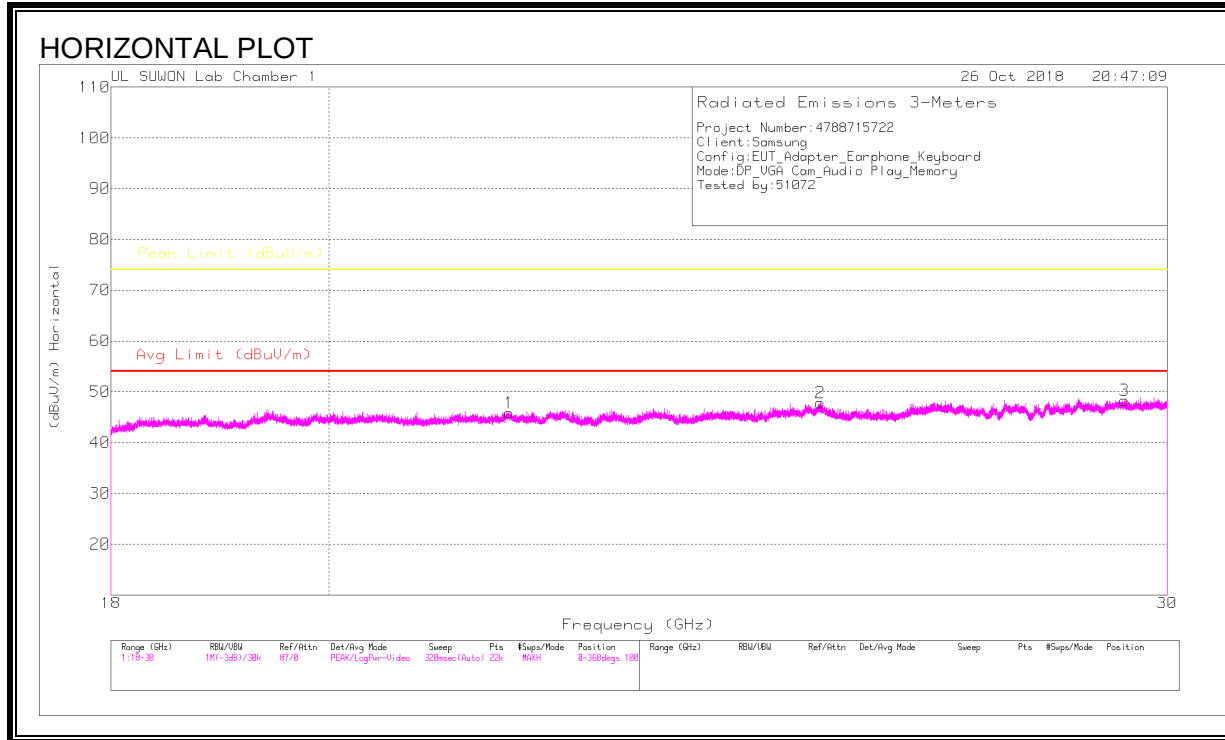
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	1-18GHz[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.62	23.88	Ca	28.3	-33.5	18.68	54	-35.32	-	-	185	235	H
1.62	34.52	Pk	28.3	-33.5	29.32	-	-	74	-44.68	185	235	H
1.62	26.01	Ca	28.3	-33.5	20.81	54	-33.19	-	-	28	119	V
1.62	35.12	Pk	28.3	-33.5	29.92	-	-	74	-44.08	28	119	V

Pk - Peak detector

Ca - CISPR average detection

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 18GHz to 30GHz
(with Keyboard DP_VGA Cam_Audio Play_Memory mode)



HORIZONTAL AND VERTICAL DATA

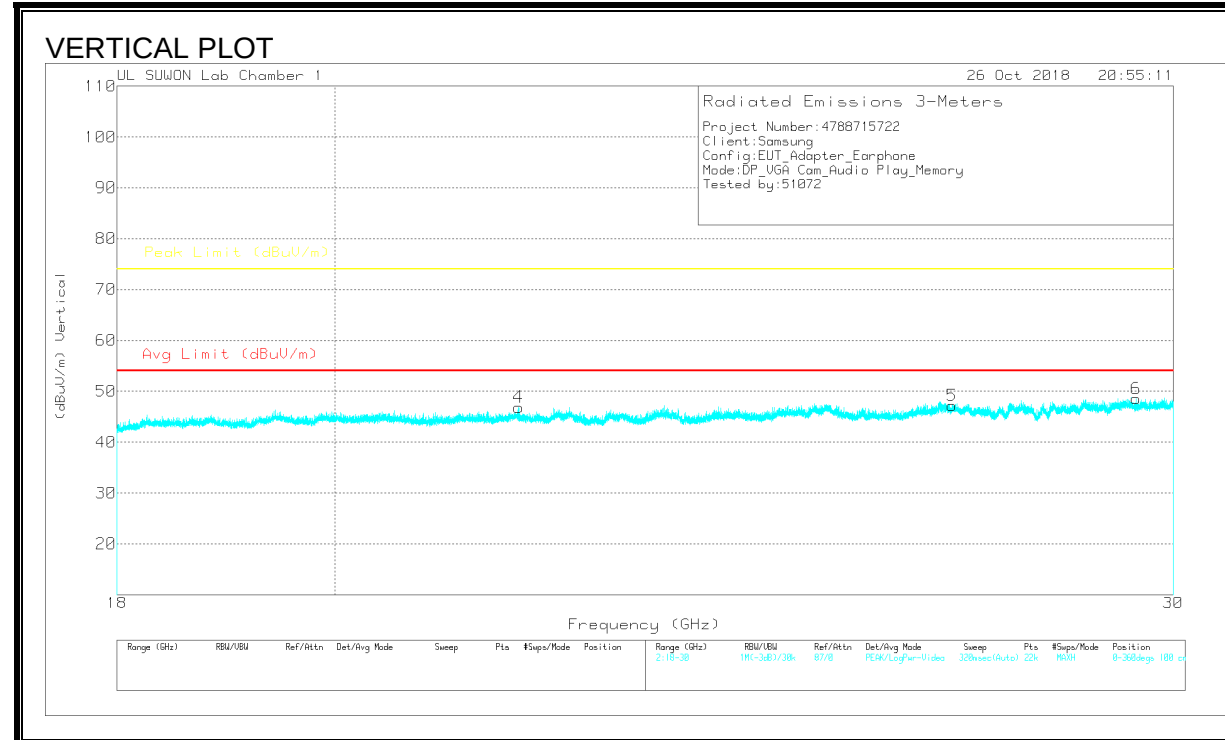
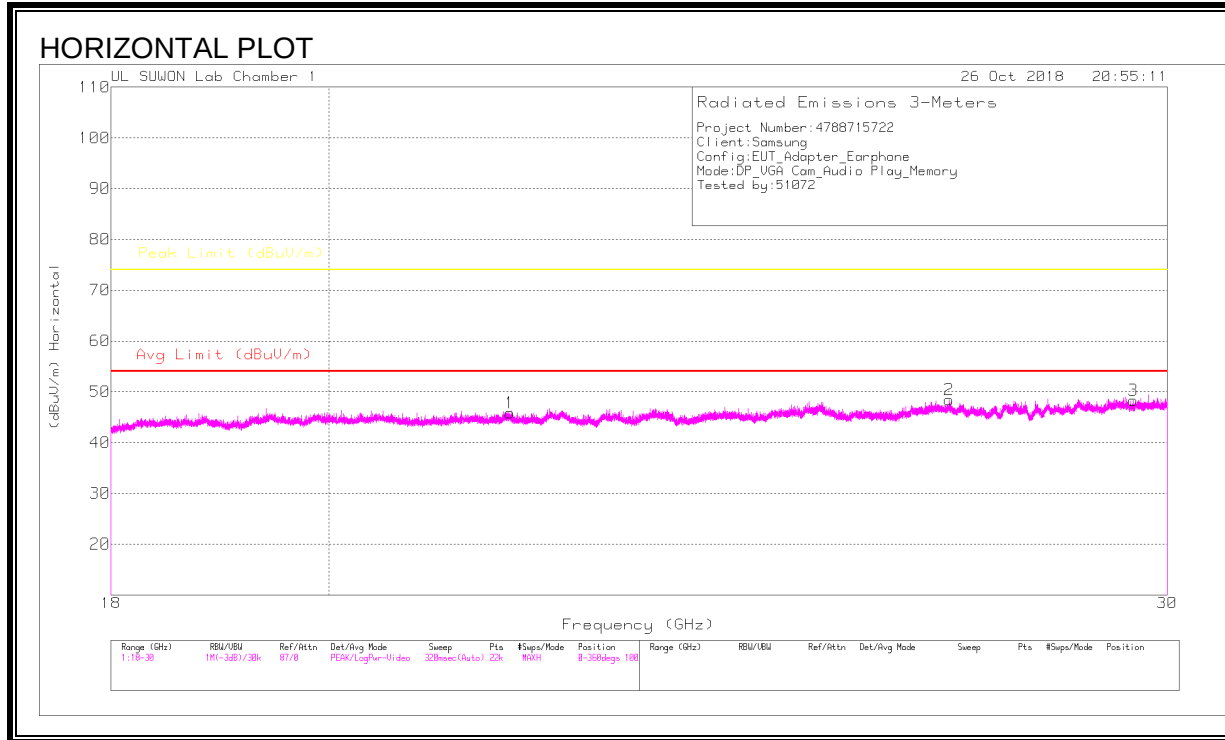
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	21.823	18.16	PK	11.3	16.4	45.86	-	-	74	-28.14	0-360	100	H
2	25.365	21.25	PK	8.8	17.8	47.85	-	-	74	-26.15	0-360	100	H
3	29.387	15.45	PK	13.5	19.4	48.35	-	-	74	-25.65	0-360	100	H
4	21.832	19.05	PK	11.3	16.4	46.75	-	-	74	-27.25	0-360	100	V
5	25.337	21.31	PK	8.8	17.8	47.91	-	-	74	-26.09	0-360	100	V
6	29.173	16.75	PK	13.3	19.3	49.35	-	-	74	-24.65	0-360	100	V

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 18GHz to 30GHz
(without Keyboard DP_VGA Cam_Audio Play_Memory mode)



HORIZONTAL AND VERTICAL DATA

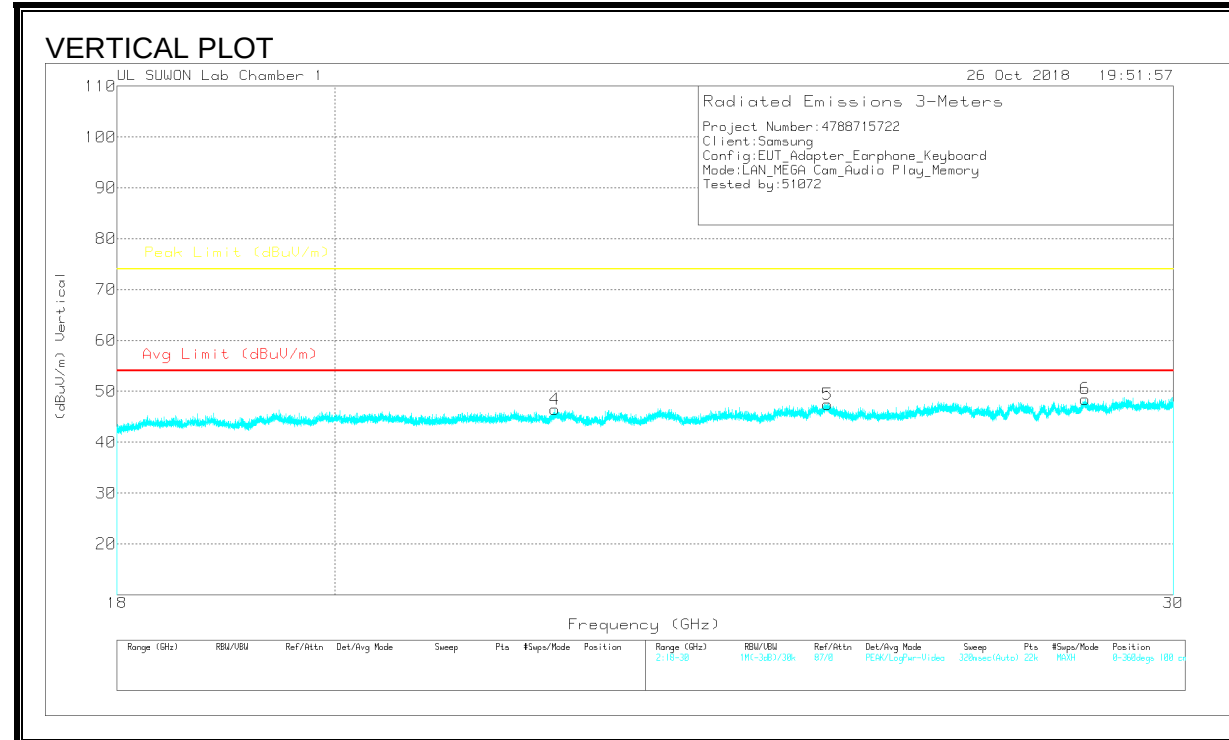
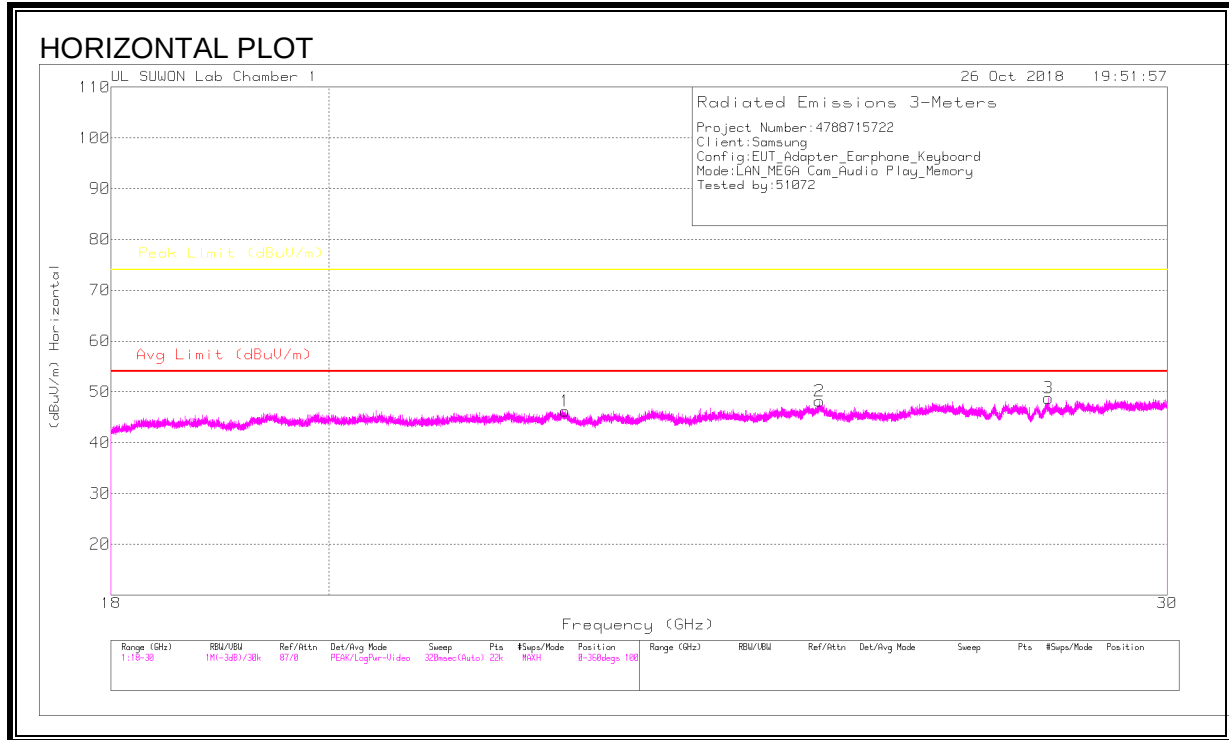
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	21.828	18.17	PK	11.3	16.4	45.87	-	-	74	-28.13	0-360	100	H
2	26.997	19.72	PK	10.2	18.5	48.42	-	-	74	-25.58	0-360	100	H
3	29.509	15.25	PK	13.7	19.4	48.35	-	-	74	-25.65	0-360	100	H
4	21.86	19.09	PK	11.3	16.5	46.89	-	-	74	-27.11	0-360	100	V
5	26.956	18.73	PK	10.1	18.4	47.23	-	-	74	-26.77	0-360	100	V
6	29.463	15.58	PK	13.6	19.4	48.58	-	-	74	-25.42	0-360	100	V

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 18GHz to 30GHz
(with Keyboard LAN MEGA Cam Audio Play Memory mode)



HORIZONTAL AND VERTICAL DATA

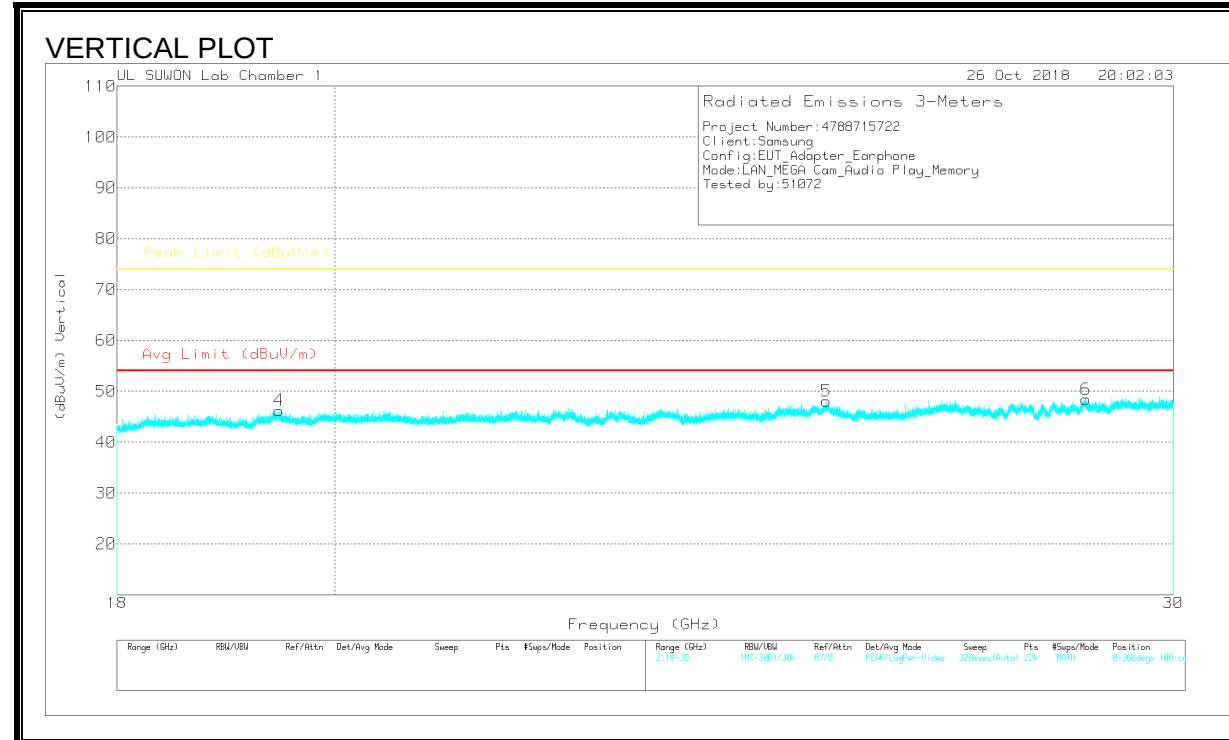
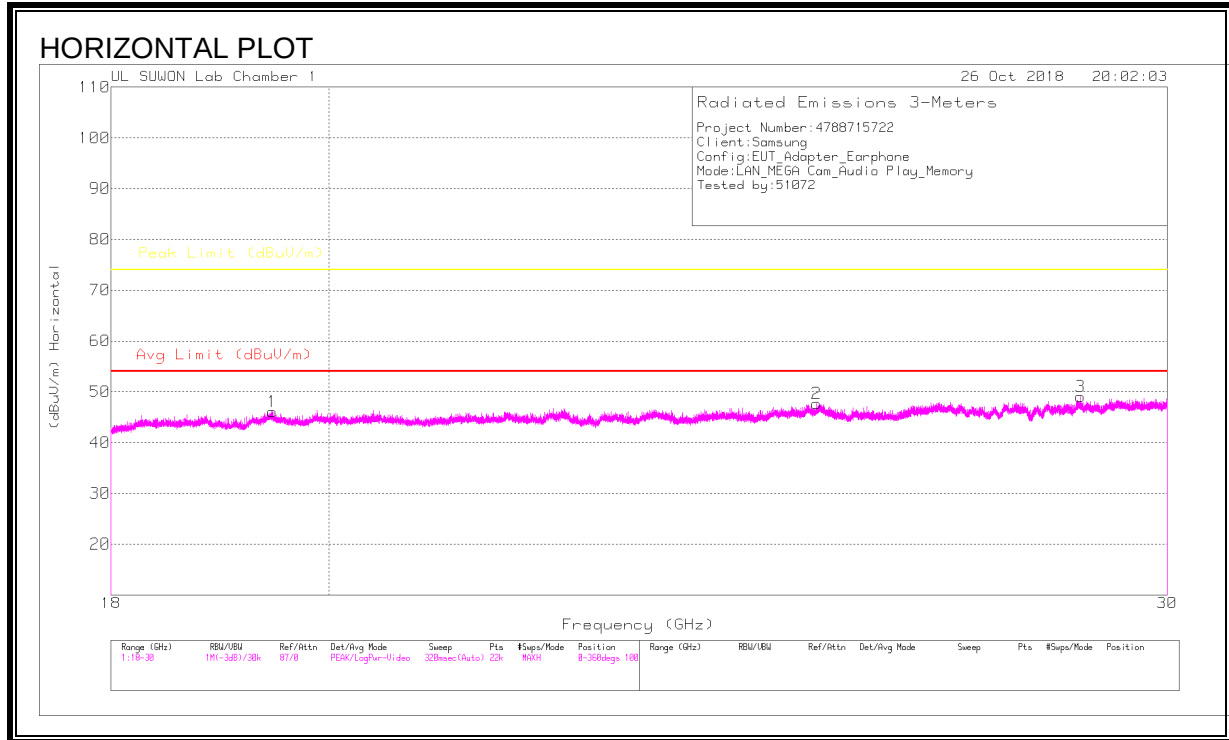
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	22.423	18.11	PK	11.4	16.7	46.21	-	-	74	-27.79	0-360	100	H
2	25.355	21.5	PK	8.8	17.9	48.2	-	-	74	-25.8	0-360	100	H
3	28.32	17.55	PK	12.2	19	48.75	-	-	74	-25.25	0-360	100	H
4	22.246	18.49	PK	11.4	16.6	46.49	-	-	74	-27.51	0-360	100	V
5	25.38	20.75	PK	8.8	17.9	47.45	-	-	74	-26.55	0-360	100	V
6	28.746	16.5	PK	12.8	19.2	48.5	-	-	74	-25.5	0-360	100	V

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 18GHz to 30GHz
(without Keyboard LAN MEGA Cam Audio Play Memory mode)



HORIZONTAL AND VERTICAL DATA

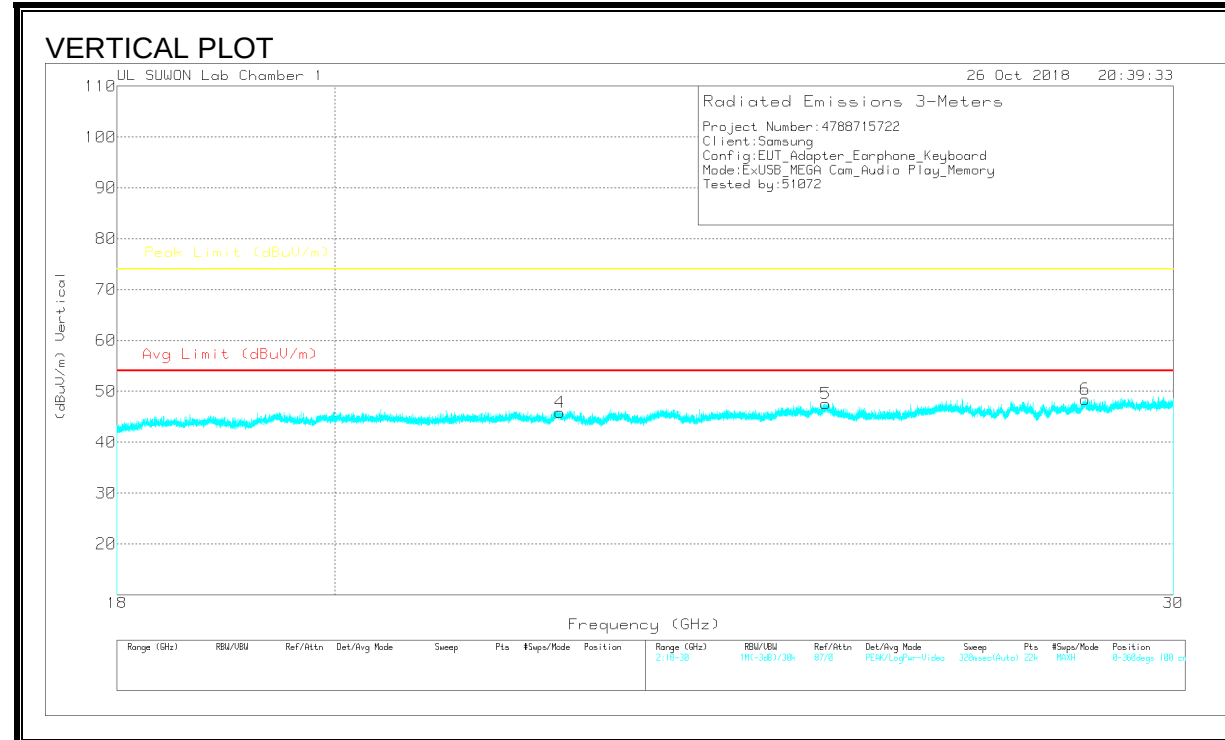
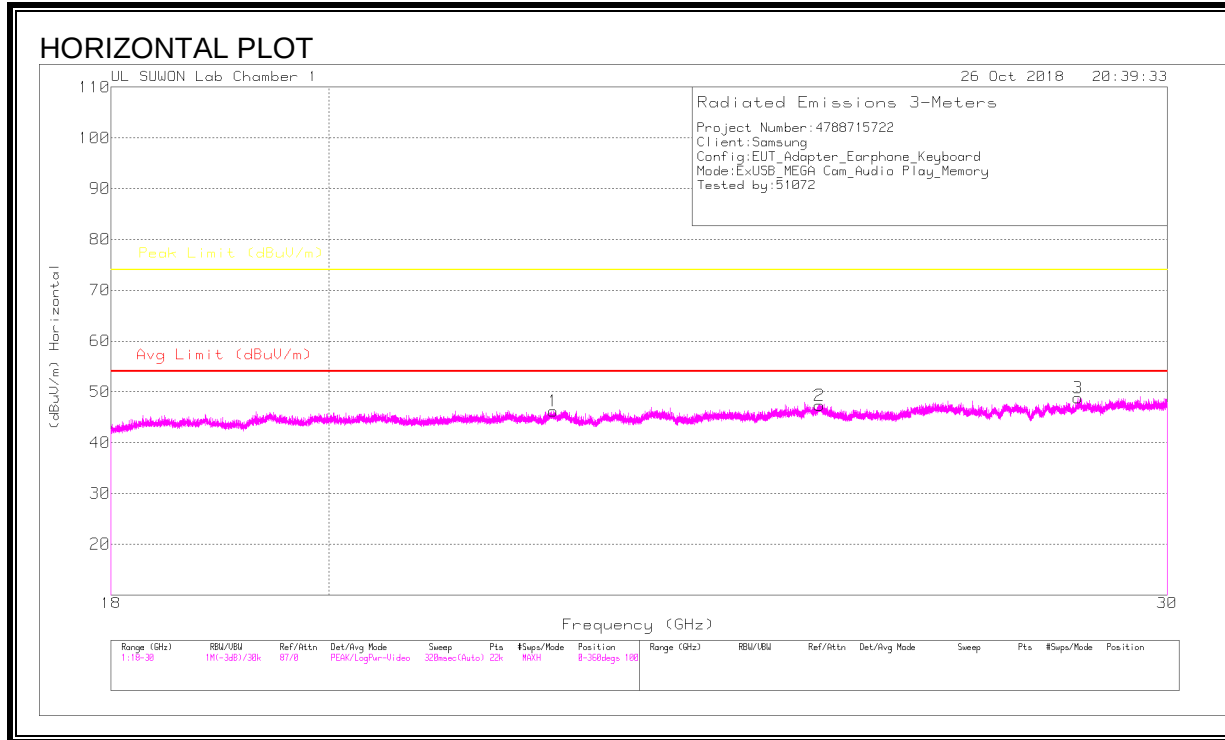
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.462	24.14	PK	6.5	15.4	46.04	-	-	74	-27.96	0-360	100	H
2	25.322	21.03	PK	8.9	17.8	47.73	-	-	74	-26.27	0-360	100	H
3	28.771	17	PK	12.8	19.2	49	-	-	74	-25	0-360	100	H
4	19.468	24.37	PK	6.5	15.4	46.27	-	-	74	-27.73	0-360	100	V
5	25.369	21.51	PK	8.8	17.8	48.11	-	-	74	-25.89	0-360	100	V
6	28.759	16.49	PK	12.8	19.2	48.49	-	-	74	-25.51	0-360	100	V

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 18GHz to 30GHz
(with Keyboard ExUSB MEGA Cam Audio Play Memory mode)



HORIZONTAL AND VERTICAL DATA

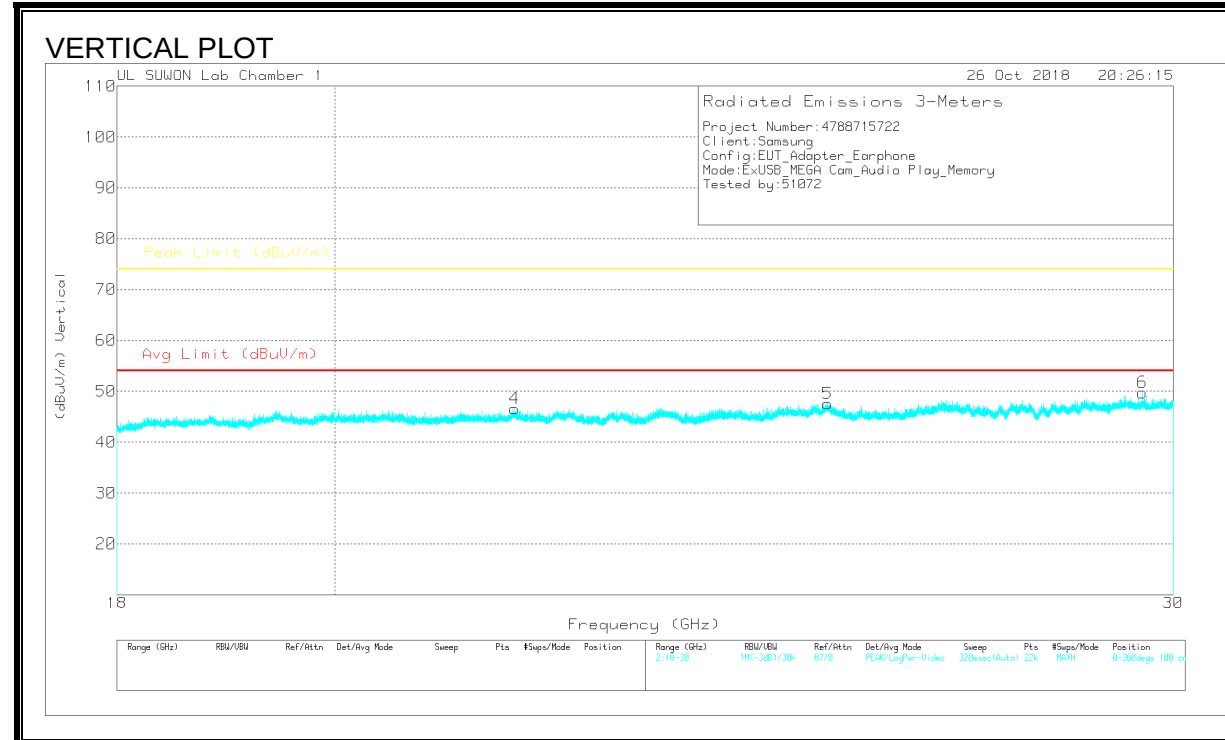
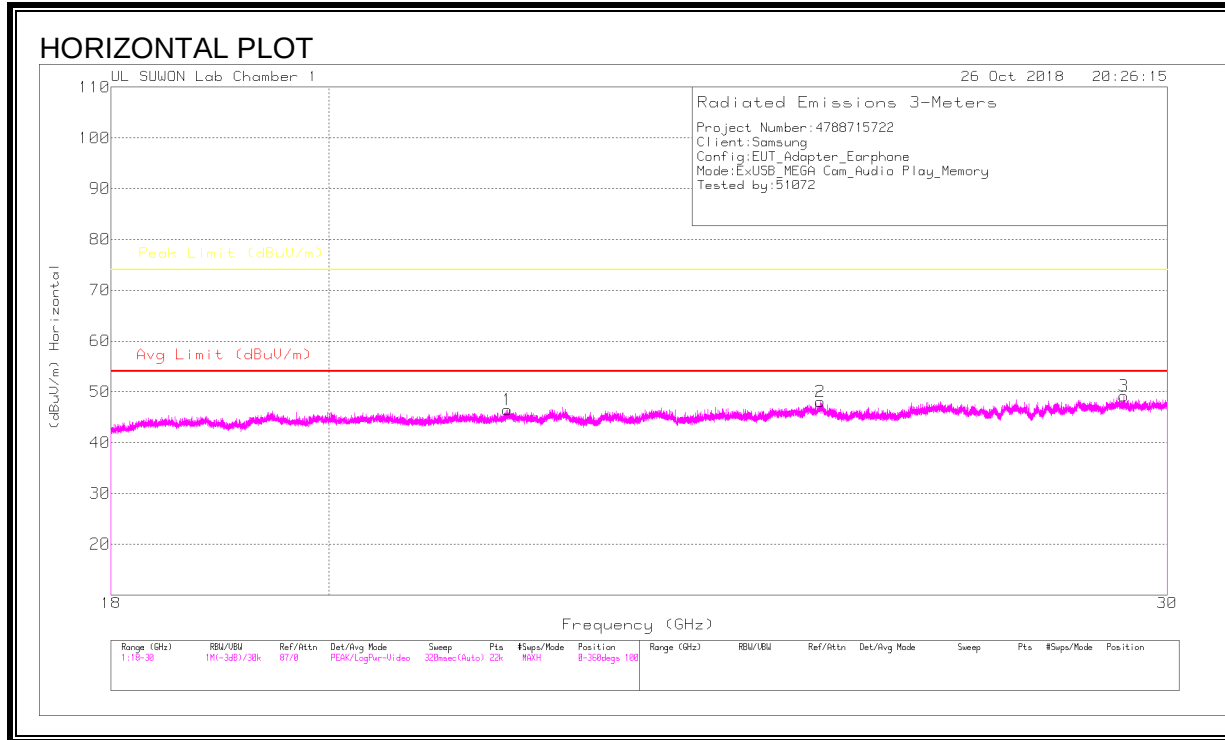
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	22.294	18.11	PK	11.4	16.7	46.21	-	-	74	-27.79	0-360	100	H
2	25.355	20.64	PK	8.8	17.9	47.34	-	-	74	-26.66	0-360	100	H
3	28.73	16.76	PK	12.8	19.2	48.76	-	-	74	-25.24	0-360	100	H
4	22.3	17.73	PK	11.4	16.7	45.83	-	-	74	-28.17	0-360	100	V
5	25.361	21.02	PK	8.8	17.8	47.62	-	-	74	-26.38	0-360	100	V
6	28.75	16.49	PK	12.8	19.2	48.49	-	-	74	-25.51	0-360	100	V

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

RADIATED EMISSIONS 18GHz to 30GHz
(without Keyboard ExUSB MEGA Cam Audio Play Memory mode)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3116C-PA	18-40GHz[dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	21.805	18.76	PK	11.3	16.4	46.46	-	-	74	-27.54	0-360	100	H
2	25.367	21.38	PK	8.8	17.9	48.08	-	-	74	-25.92	0-360	100	H
3	29.38	16.25	PK	13.5	19.4	49.15	-	-	74	-24.85	0-360	100	H
4	21.819	18.94	PK	11.3	16.4	46.64	-	-	74	-27.36	0-360	100	V
5	25.384	20.98	PK	8.7	17.9	47.58	-	-	74	-26.42	0-360	100	V
6	29.553	16.64	PK	13.7	19.4	49.74	-	-	74	-24.26	0-360	100	V

PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

7.2. RADIATED EMISSIONS FOR CELLULAR RECEIVER MODE

TEST PROCEDURE

ANSI C63.4: 2014

The highest clock frequency generated or used in the EUT is 894MHz therefore the frequency range was investigated from 30 MHz to 10 GHz.

LIMIT

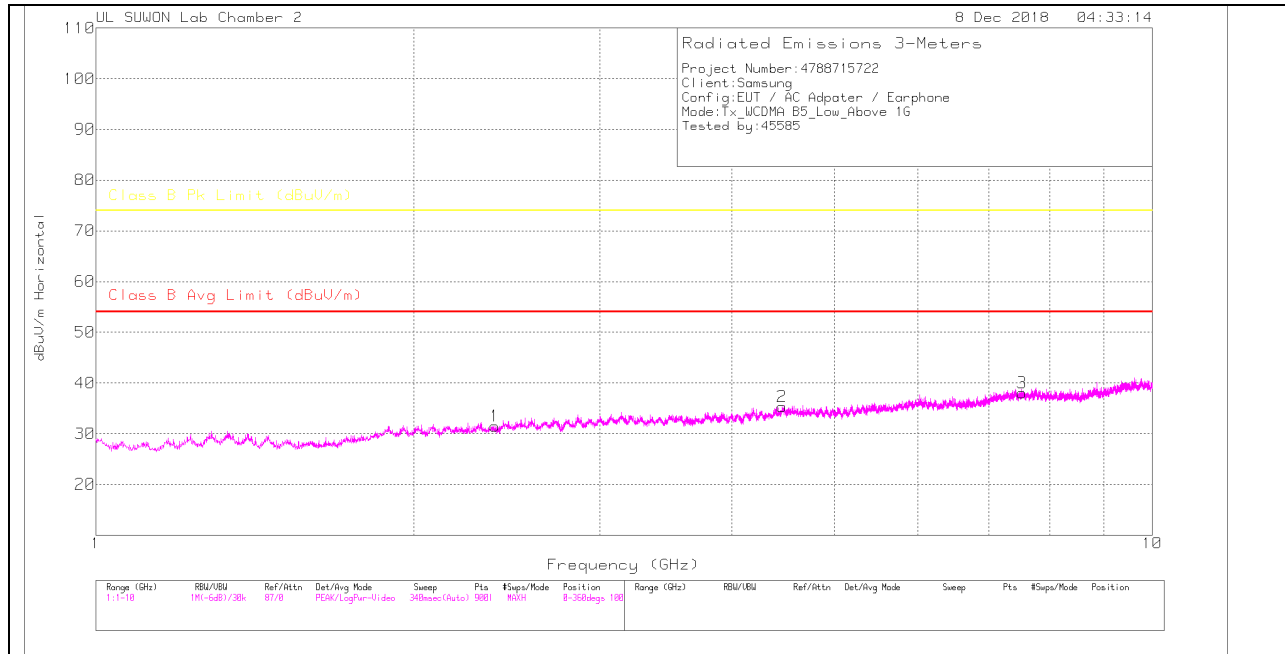
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dBμV/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.	

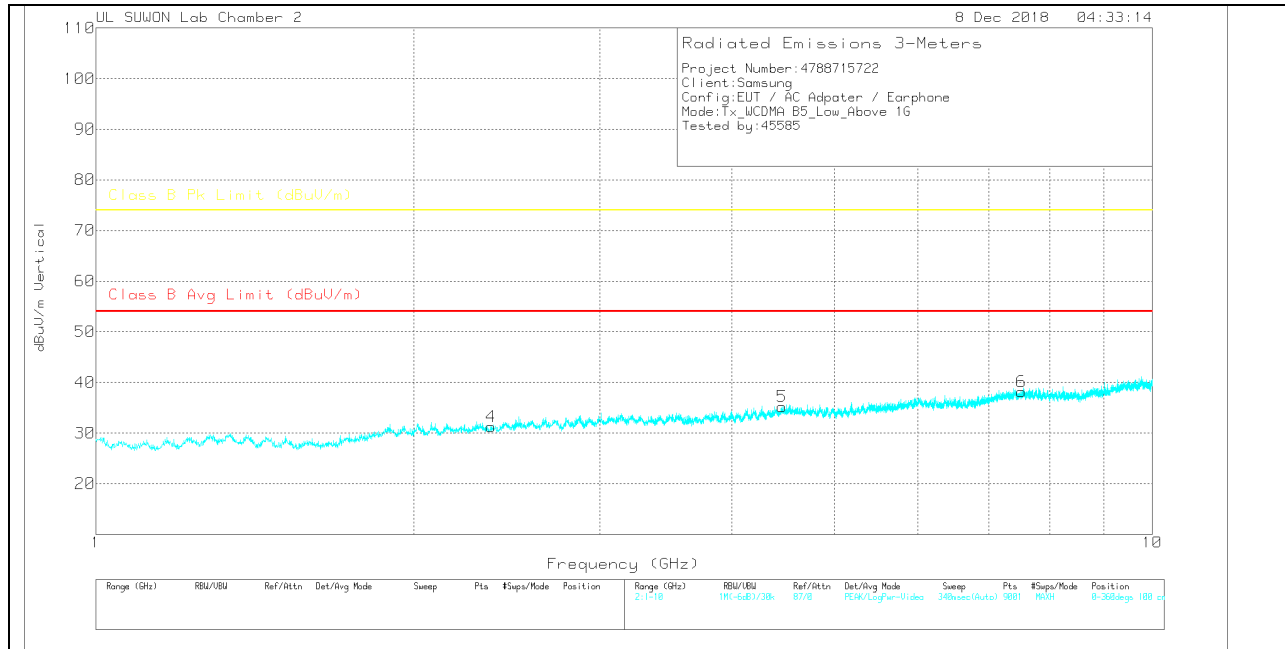
Above 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

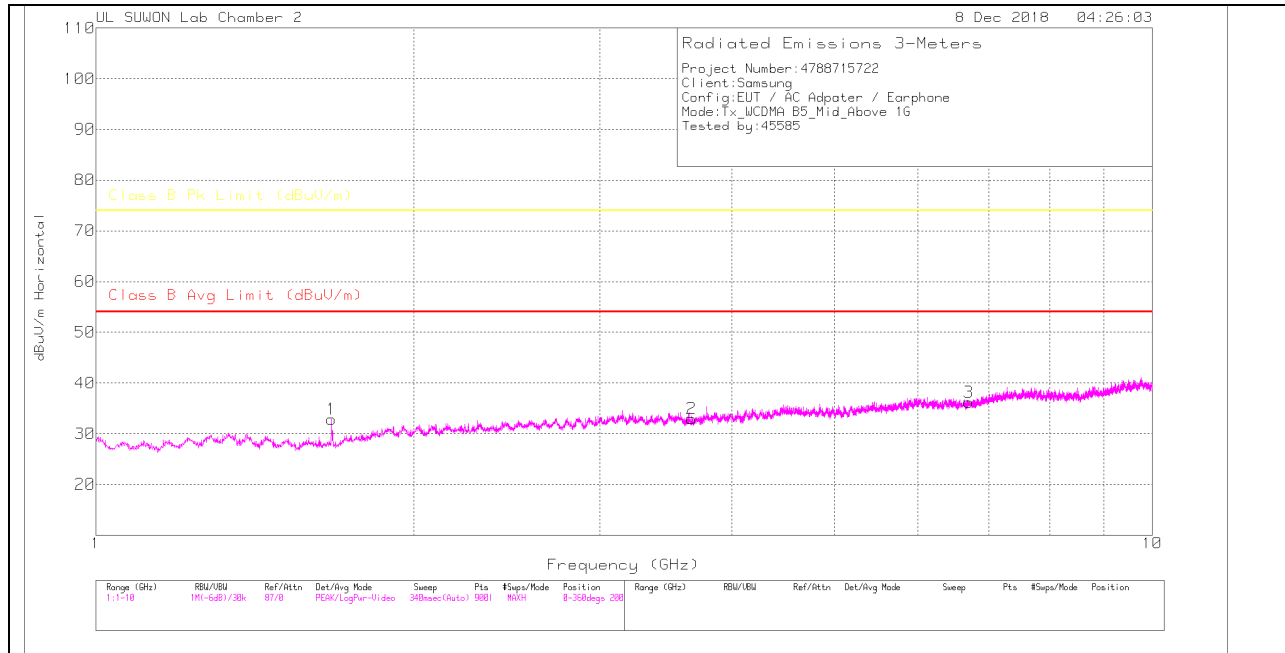
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	2.386	30.28	PK	31.6	-30.8	.4	31.48	-	-	74	-42.52	0-360	200	H
2	4.463	29.5	PK	33.8	-28.4	.4	35.3	-	-	74	-38.7	0-360	200	H
3	7.526	26.41	PK	36.1	-25.1	.6	38.01	-	-	74	-35.99	0-360	100	H
4	2.366	30.1	PK	31.6	-30.8	.4	31.3	-	-	74	-42.7	0-360	200	V
5	4.463	29.39	PK	33.8	-28.4	.4	35.19	-	-	74	-38.81	0-360	100	V
6	7.523	26.54	PK	36.1	-25.1	.6	38.14	-	-	74	-35.86	0-360	200	V

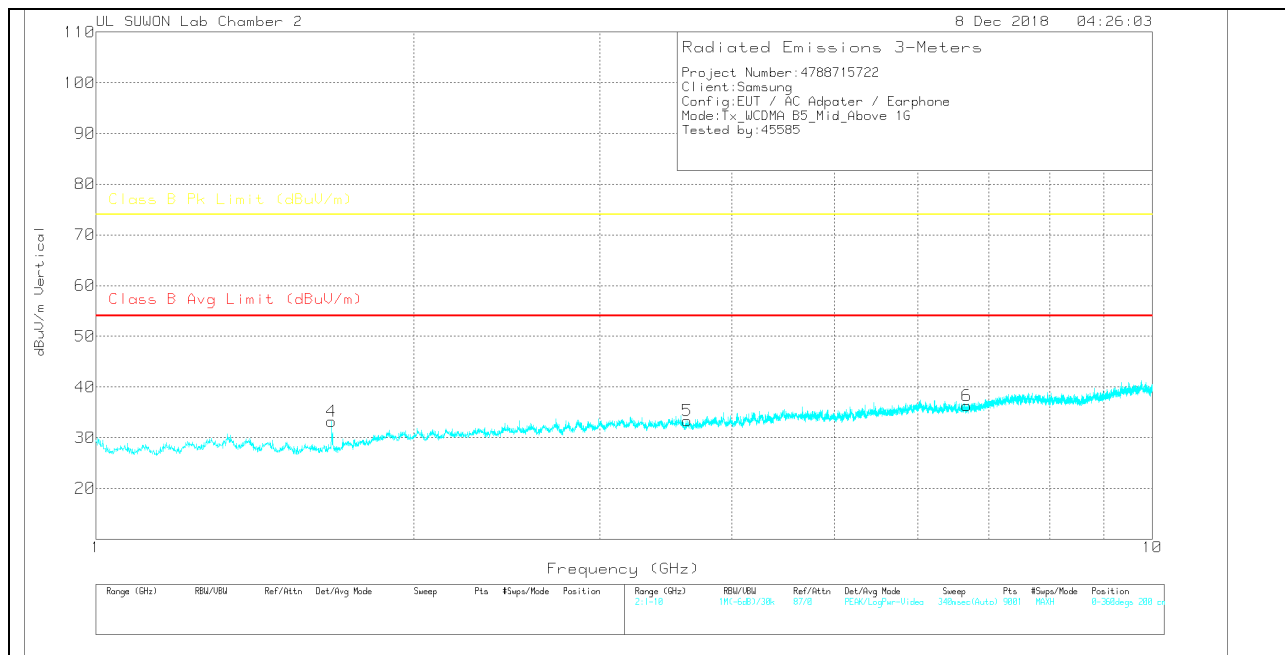
PK – Peak Detector

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

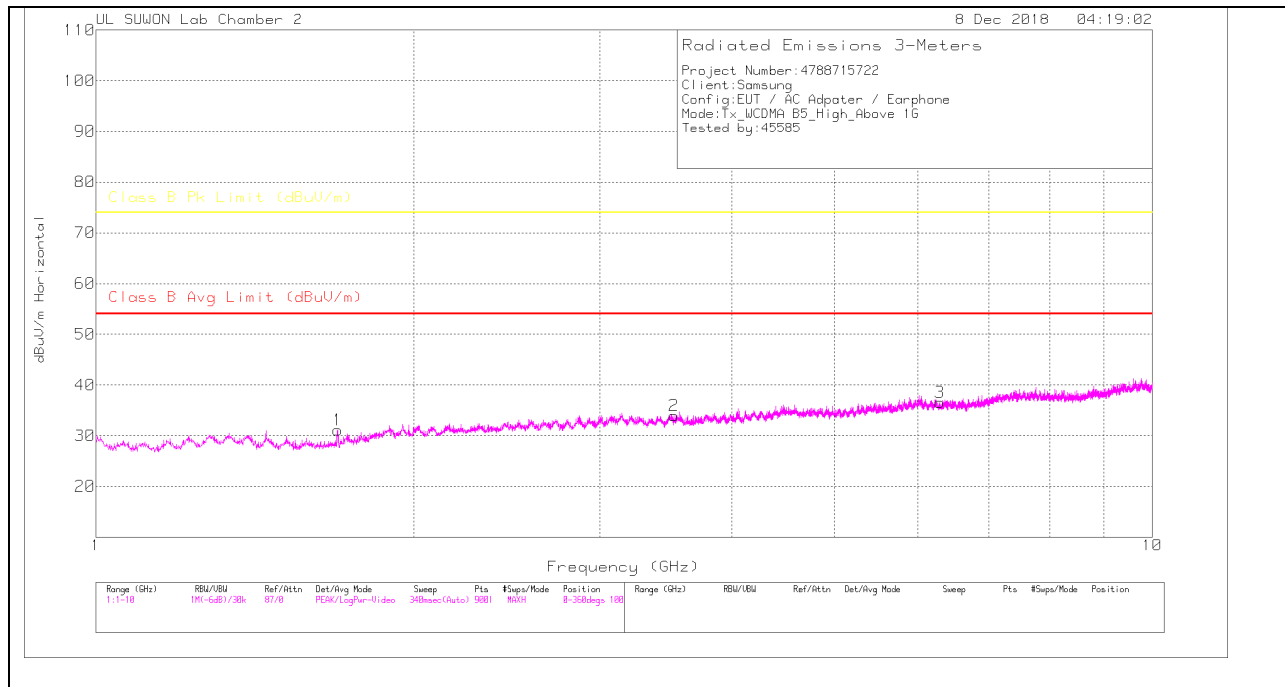
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	1.672	35.15	PK	28.5	-31.3	.5	32.85	-	-	74	-41.15	0-360	100	H
2	3.664	29.06	PK	32.9	-29.6	.6	32.96	-	-	74	-41.04	0-360	100	H
3	6.703	26.62	PK	35.4	-26.2	.4	36.22	-	-	74	-37.78	0-360	200	H
4	1.671	35.66	PK	28.5	-31.4	.5	33.26	-	-	74	-40.74	0-360	100	V
5	3.63	29.6	PK	32.8	-29.5	.5	33.4	-	-	74	-40.6	0-360	100	V
6	6.677	27.16	PK	35.4	-26.5	.3	36.36	-	-	74	-37.64	0-360	100	V

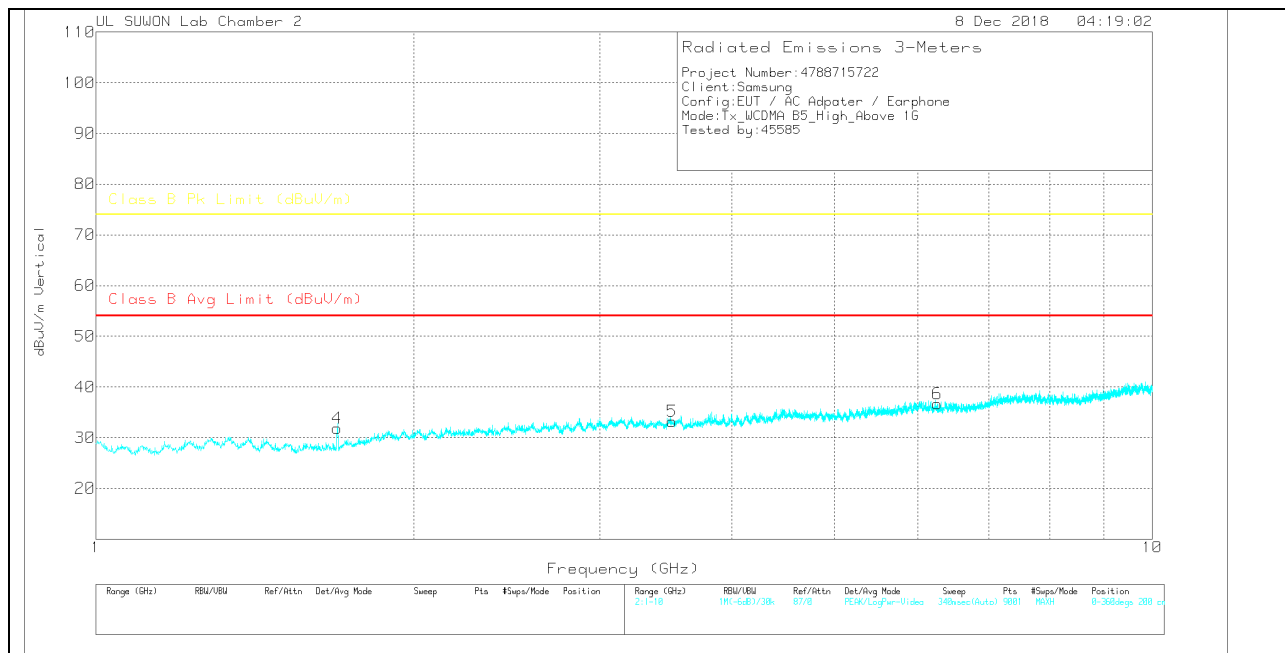
PK – Peak Detector

HIGH CHANNEL(891.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

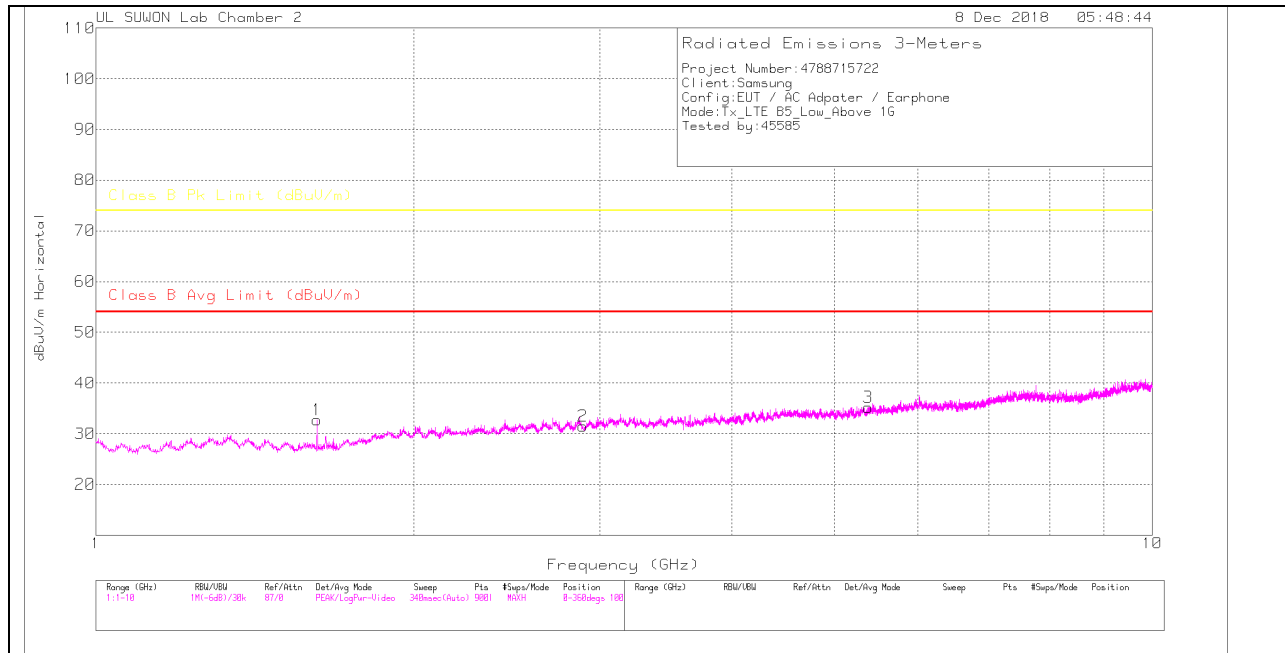
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.694	33.21	PK	28.6	-31.3	.6	31.11	-	-	74	-42.89	0-360	200	H
2	3.524	29.66	PK	32.7	-29	.6	33.96	-	-	74	-40.04	0-360	100	H
3	6.289	28.06	PK	35.2	-27.1	.4	36.56	-	-	74	-37.44	0-360	200	H
4	1.691	33.87	PK	28.6	-31.2	.6	31.87	-	-	74	-42.13	0-360	100	V
5	3.513	28.85	PK	32.7	-28.9	.6	33.25	-	-	74	-40.75	0-360	200	V
6	6.255	28.06	PK	35.2	-27.1	.5	36.66	-	-	74	-37.34	0-360	100	V

PK – Peak Detector

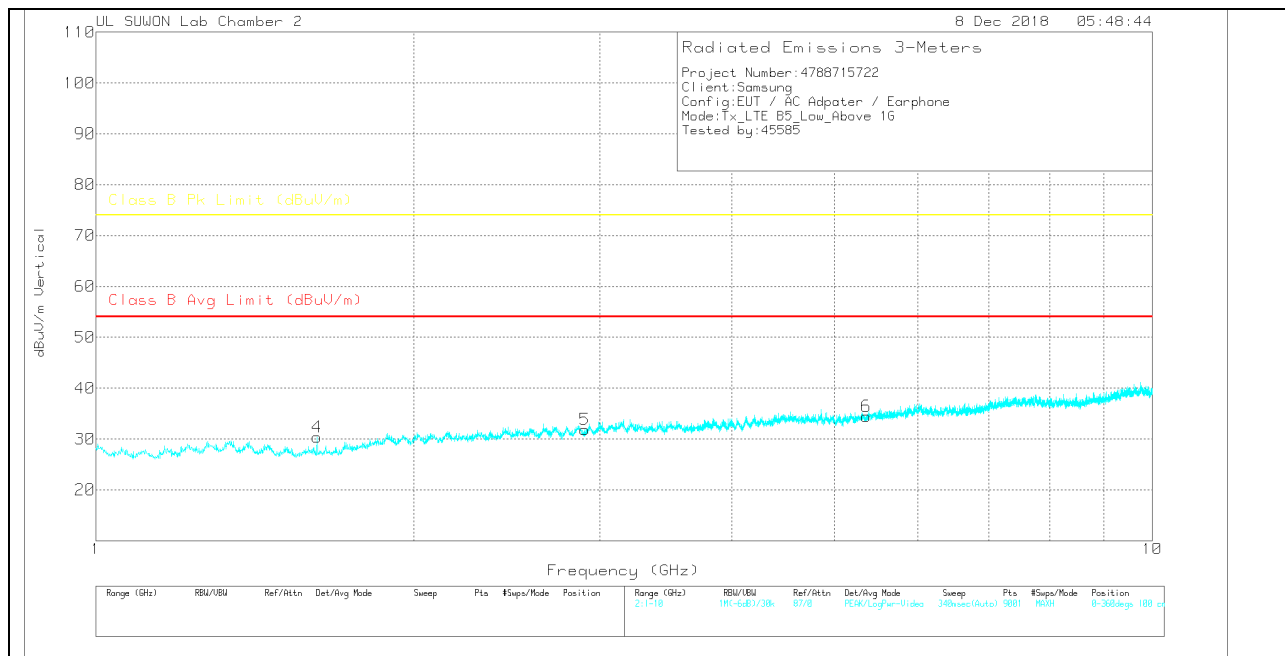
Above 1 GHz in the LTE Band 5

LOW CHANNEL(870.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

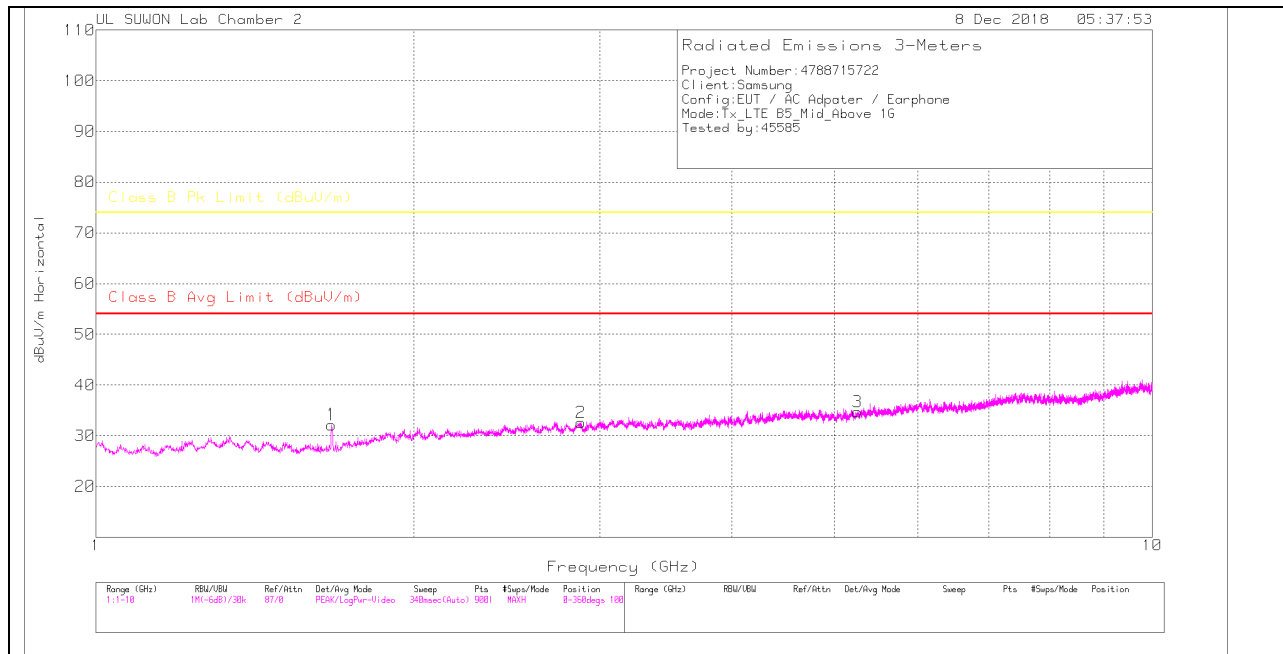
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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	1.619	34.98	PK	28.3	-31.4	.8	32.68	-	-	74	-41.32	0-360	200	H
2	2.89	28.71	PK	32.1	-30	.7	31.51	-	-	74	-42.49	0-360	200	H
3	5.386	28.45	PK	34.5	-29.1	.4	35.25	-	-	74	-38.75	0-360	100	H
4	1.619	32.69	PK	28.3	-31.4	.8	30.39	-	-	74	-43.61	0-360	100	V
5	2.901	29.21	PK	32.1	-30	.6	31.91	-	-	74	-42.09	0-360	100	V
6	5.364	27.76	PK	34.5	-28.2	.4	34.46	-	-	74	-39.54	0-360	100	V

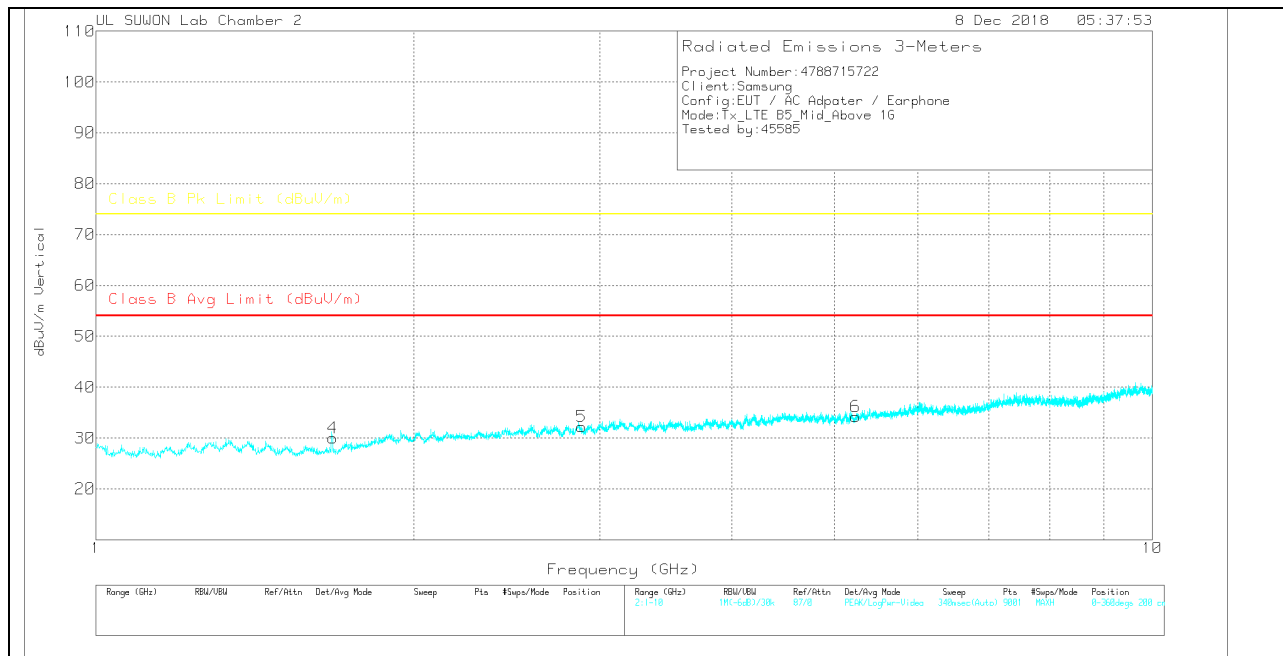
PK – Peak Detector

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

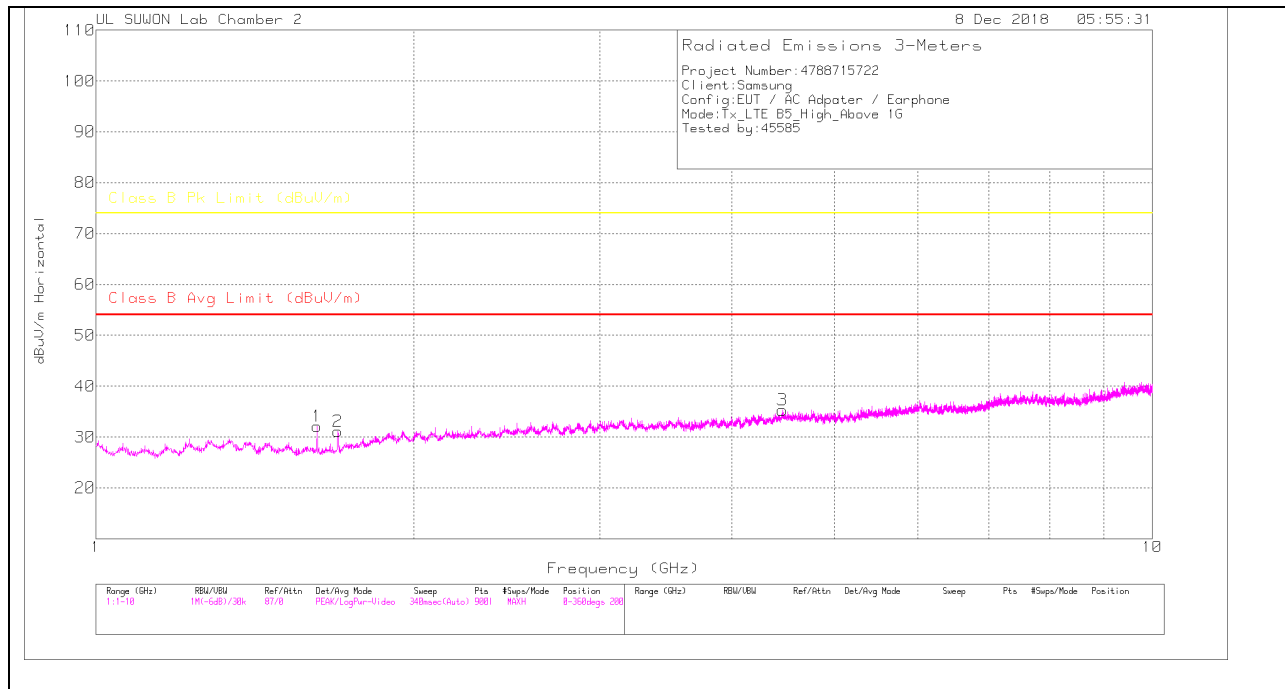
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_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	1.671	34.57	PK	28.5	-31.4	.5	32.17	-	-	74	-41.83	0-360	100	H
2	2.878	29.62	PK	32.1	-29.9	.8	32.62	-	-	74	-41.38	0-360	200	H
3	5.256	28.06	PK	34.4	-28.2	.4	34.66	-	-	74	-39.34	0-360	100	H
4	1.675	32.35	PK	28.5	-31.3	.5	30.05	-	-	74	-43.95	0-360	100	V
5	2.882	29.34	PK	32.1	-29.9	.7	32.24	-	-	74	-41.76	0-360	200	V
6	5.235	27.38	PK	34.4	-28	.4	34.18	-	-	74	-39.82	0-360	200	V

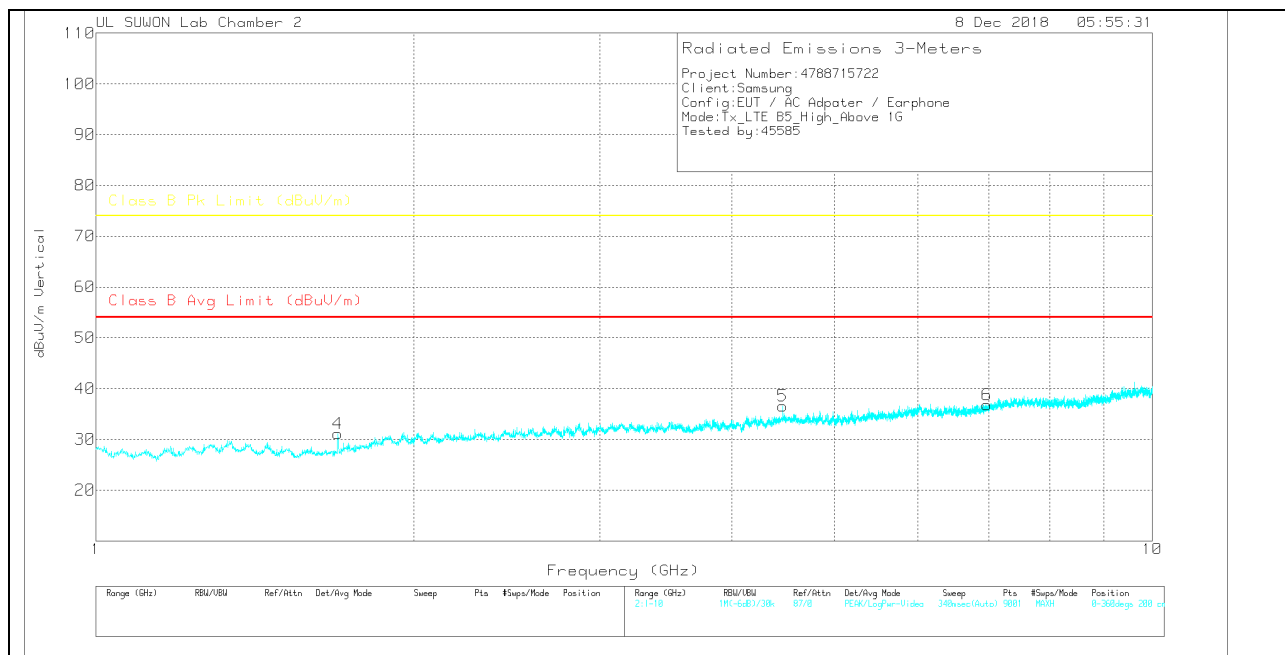
PK – Peak Detector

HIGH CHANNEL(892.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

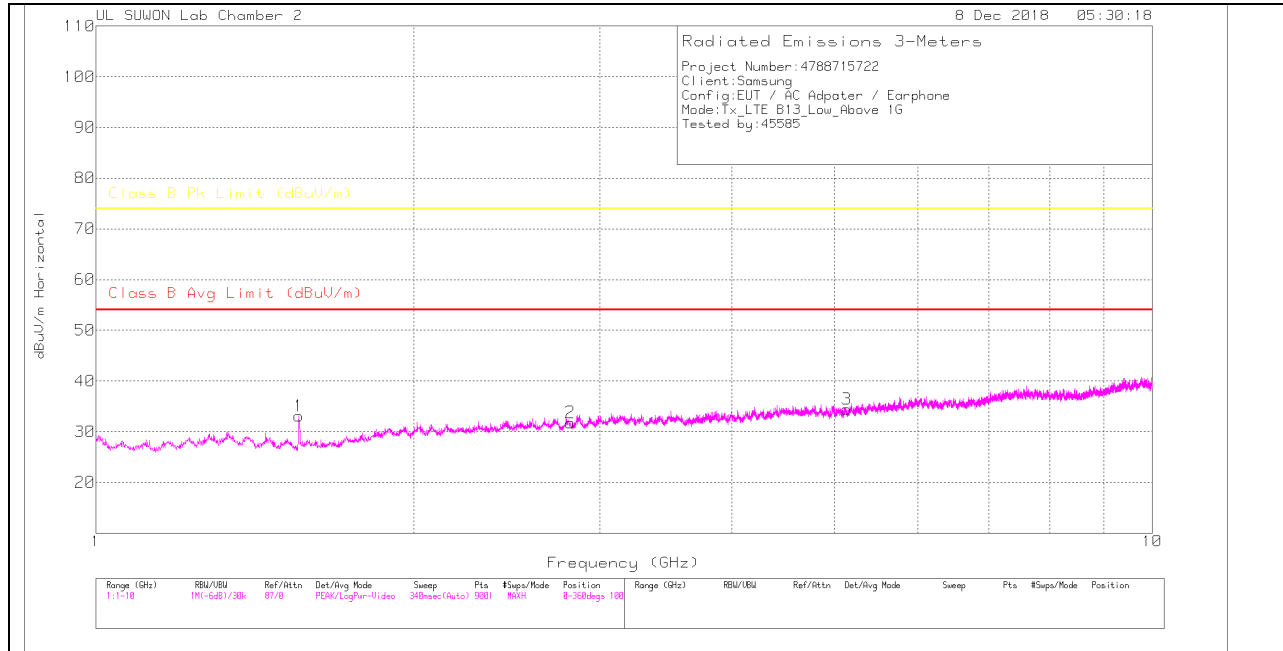
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Avg(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.62	34.46	PK	28.3	-31.4	.8	32.16	-	-	74	-41.84	0-360	200	H
2	1.694	33.21	PK	28.6	-31.3	.6	31.11	-	-	74	-42.89	0-360	200	H
3	4.465	29.47	PK	33.8	-28.4	.4	35.27	-	-	74	-38.73	0-360	100	H
4	1.694	33.27	PK	28.6	-31.3	.6	31.17	-	-	74	-42.83	0-360	100	V
5	4.47	30.82	PK	33.8	-28.4	.4	36.62	-	-	74	-37.38	0-360	200	V
6	6.969	26.81	PK	35.8	-26.2	.4	36.81	-	-	74	-37.19	0-360	200	V

PK – Peak Detector

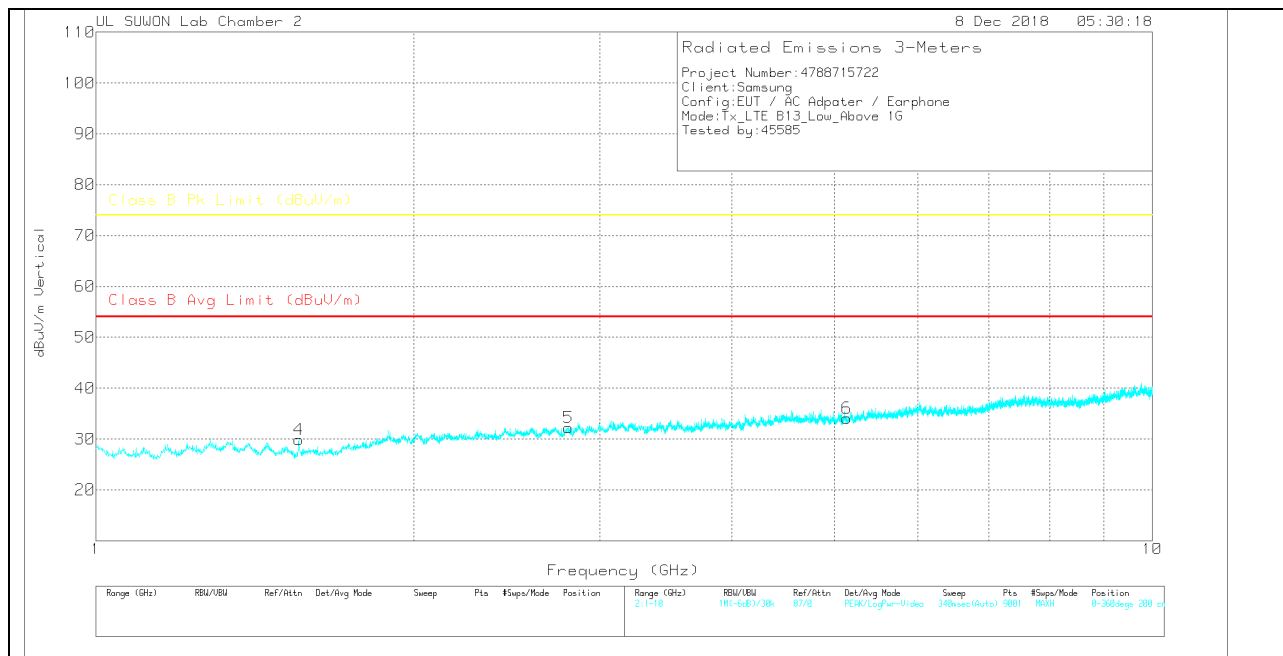
Above 1 GHz in the LTE Band 13

LOW CHANNEL(748.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

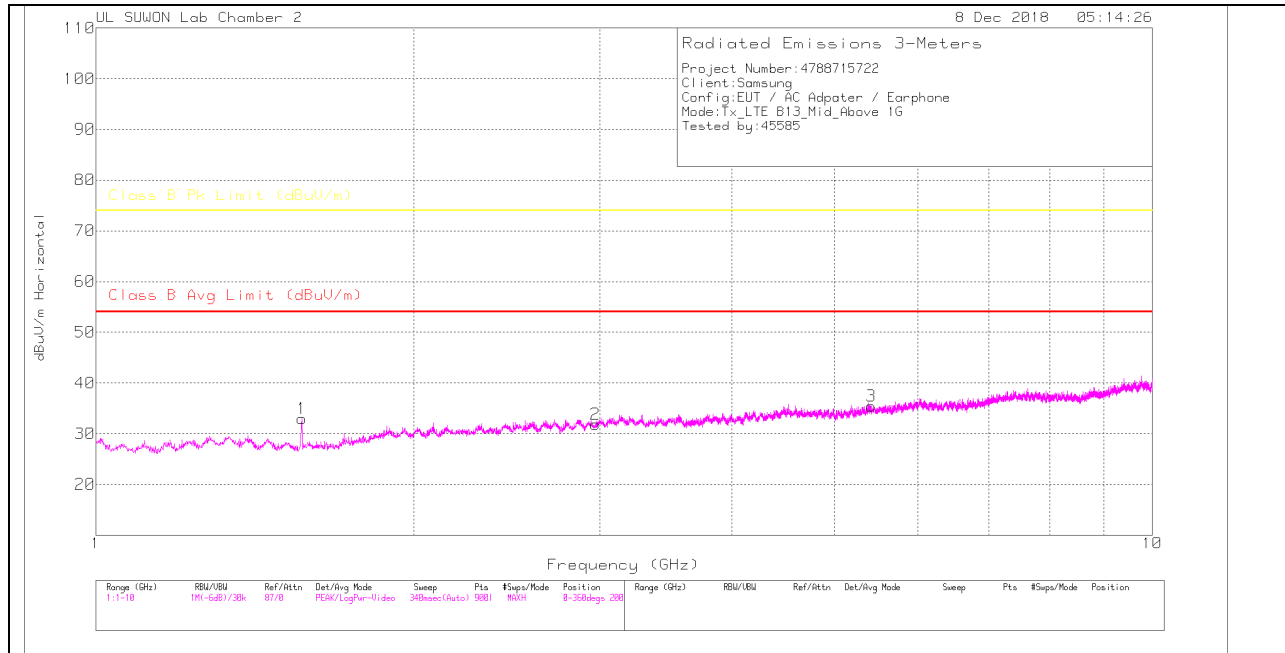
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.557	35.64	PK	28.3	-31.4	.6	33.14	-	-	74	-40.86	0-360	100	H
2	2.813	29.2	PK	32	-30	.6	31.8	-	-	74	-42.2	0-360	200	H
3	5.14	27.51	PK	34.3	-27.8	.4	34.41	-	-	74	-39.59	0-360	200	H
4	1.556	32.35	PK	28.3	-31.4	.6	29.85	-	-	74	-44.15	0-360	100	V
5	2.802	29.65	PK	32	-29.9	.5	32.25	-	-	74	-41.75	0-360	200	V
6	5.135	27.26	PK	34.3	-27.9	.4	34.06	-	-	74	-39.94	0-360	200	V

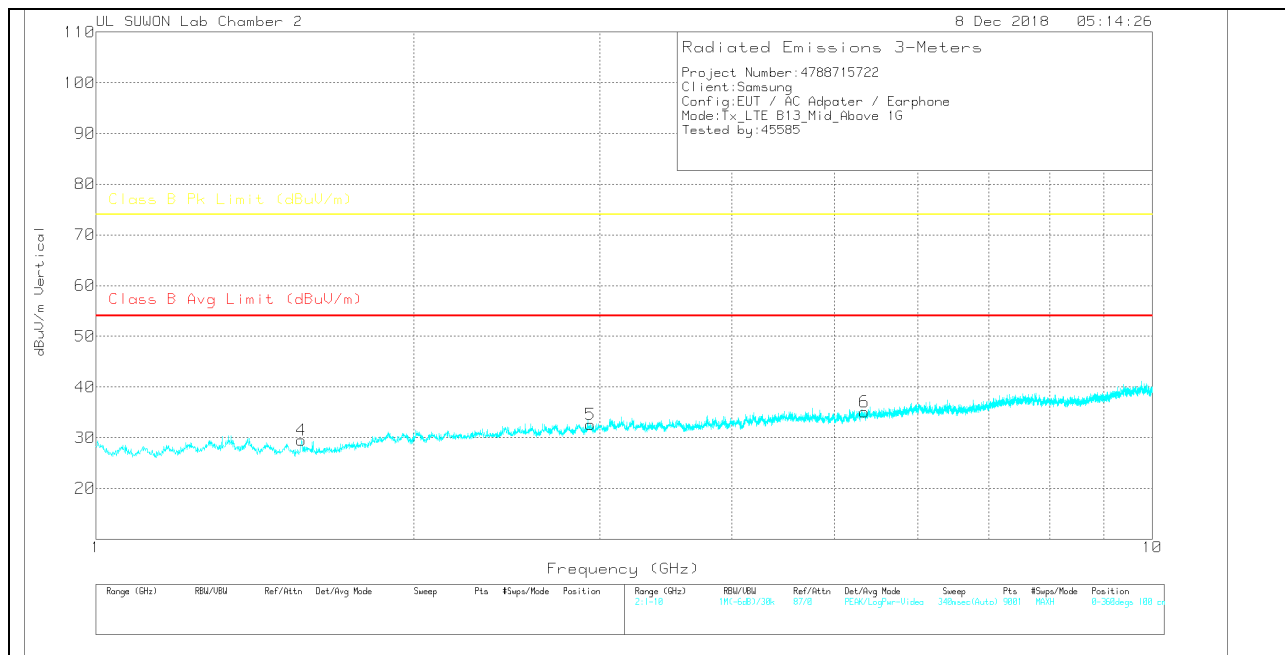
PK – Peak Detector

MID CHANNEL(751.0MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

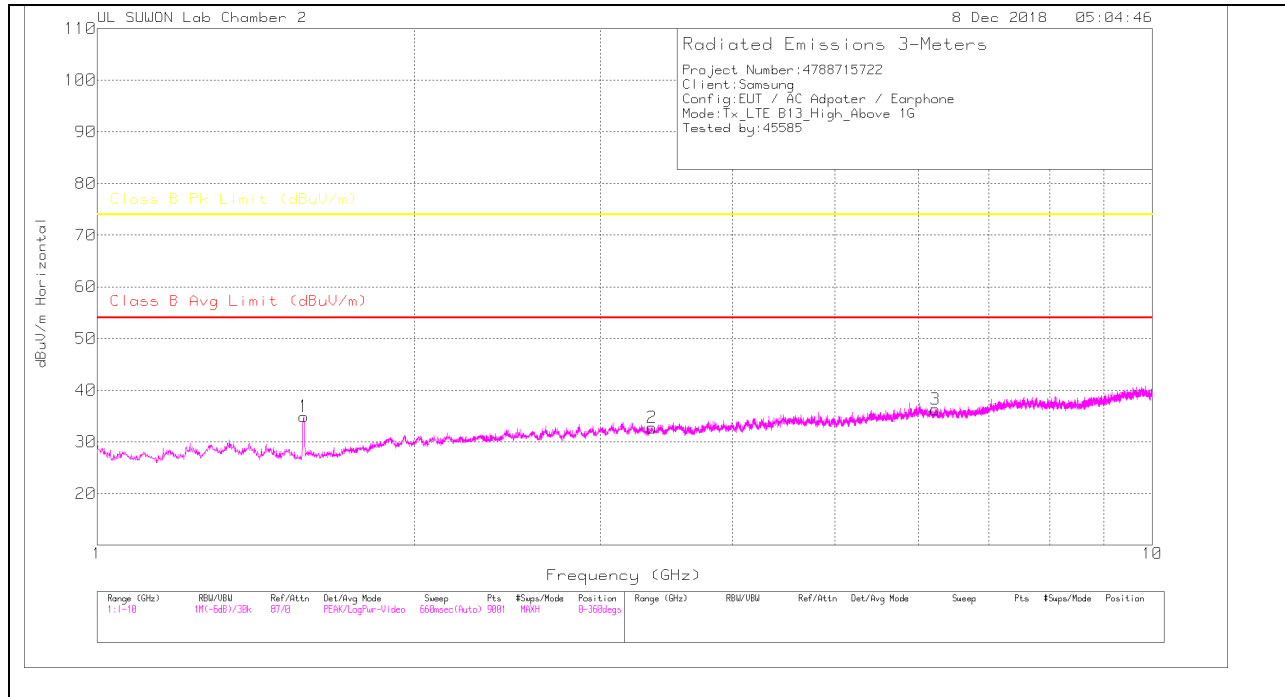
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Avg(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.566	35.62	PK	28.3	-31.5	.6	33.02	-	-	74	-40.98	0-360	100	H
2	2.971	29.01	PK	32.4	-30.2	.7	31.91	-	-	74	-42.09	0-360	200	H
3	5.42	28.36	PK	34.5	-27.8	.4	35.46	-	-	74	-38.54	0-360	200	H
4	1.565	32.11	PK	28.3	-31.5	.6	29.51	-	-	74	-44.49	0-360	100	V
5	2.94	29.85	PK	32.3	-30.1	.6	32.65	-	-	74	-41.35	0-360	100	V
6	5.342	28.72	PK	34.5	-28.5	.4	35.12	-	-	74	-38.88	0-360	100	V

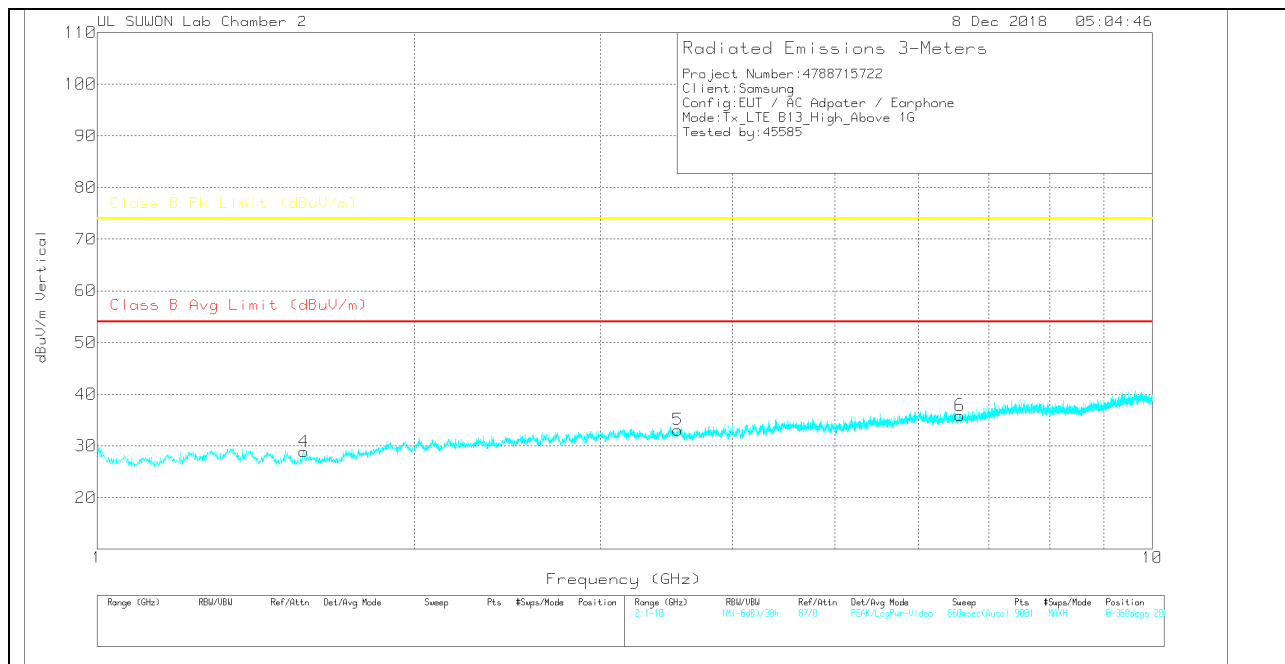
PK – Peak Detector

HIGH CHANNEL(753.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

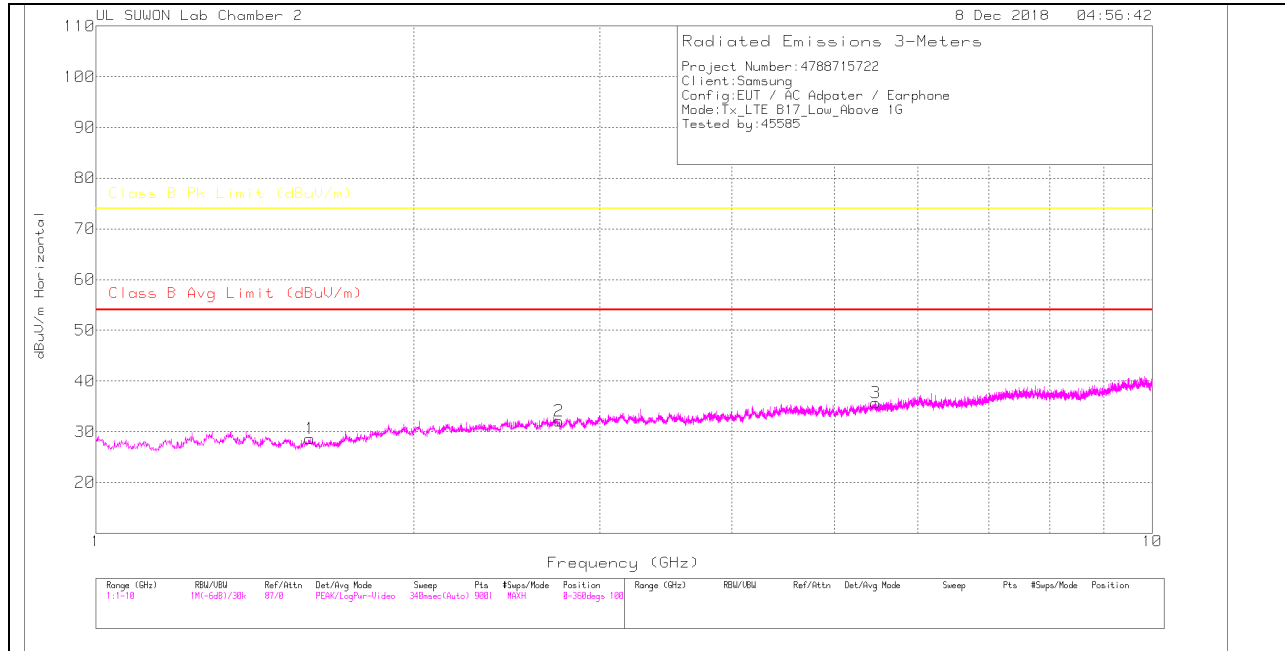
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Avg(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.57	37.5	PK	28.3	-31.5	.6	34.9	-	-	74	-39.1	0-360	100	H
2	3.356	29.47	PK	32.6	-29.8	.5	32.77	-	-	74	-41.23	0-360	100	H
3	6.232	27.58	PK	35.2	-27	.5	36.28	-	-	74	-37.72	0-360	100	H
4	1.571	31.42	PK	28.3	-31.4	.6	28.92	-	-	74	-45.08	0-360	200	V
5	3.55	28.81	PK	32.7	-29	.6	33.11	-	-	74	-40.89	0-360	200	V
6	6.575	26.87	PK	35.3	-26.7	.4	35.87	-	-	74	-38.13	0-360	200	V

PK – Peak Detector

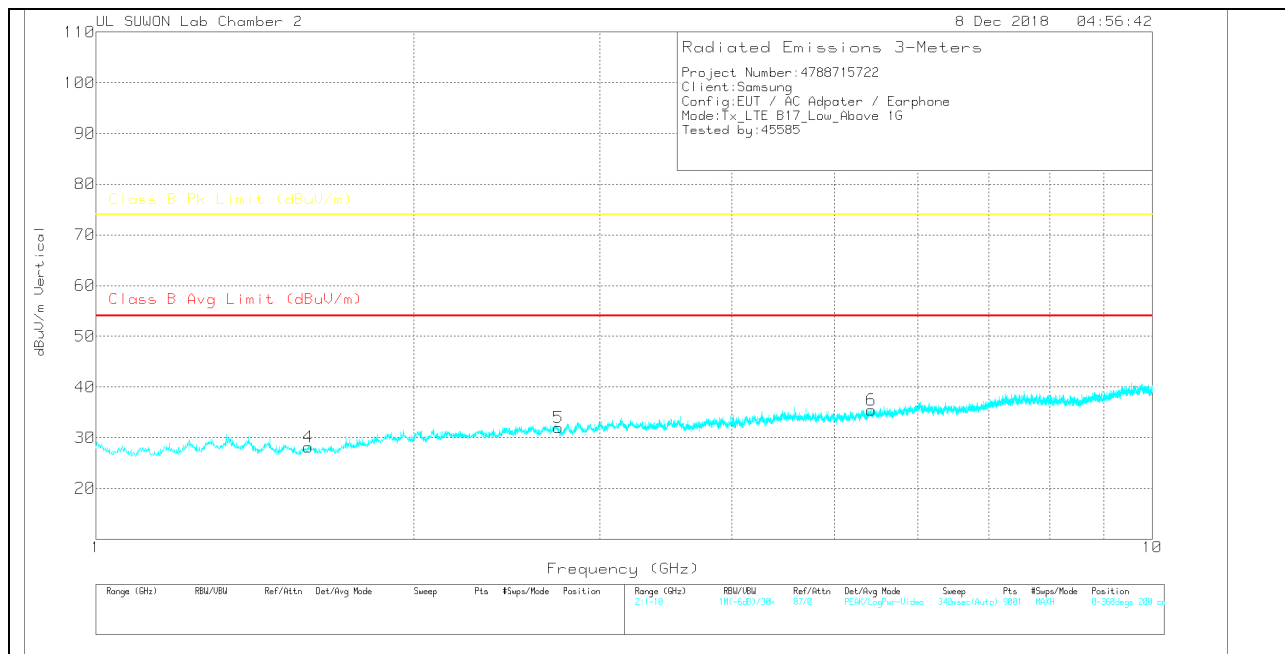
Above 1 GHz in the LTE Band 17

LOW CHANNEL(736.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

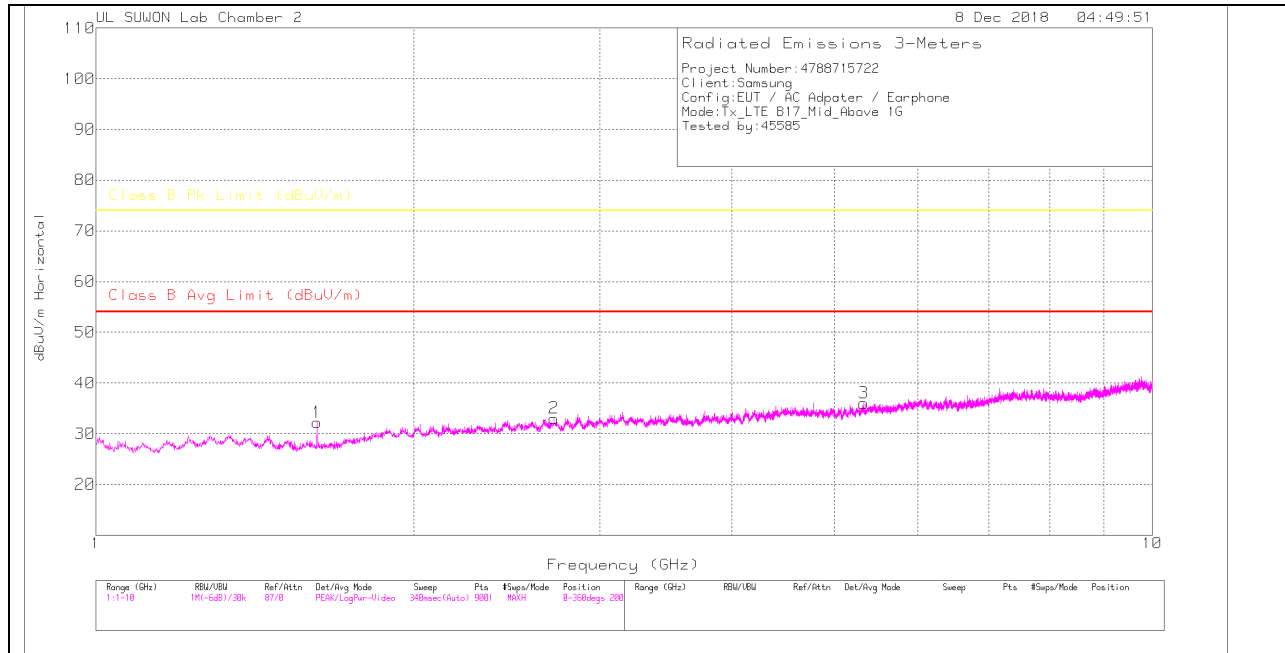
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.594	31	PK	28.3	-31.5	.8	28.6	-	-	74	-45.4	0-360	200	H
2	2.744	29.44	PK	32.1	-30	.6	32.14	-	-	74	-41.86	0-360	100	H
3	5.475	28.46	PK	34.6	-27.8	.4	35.66	-	-	74	-38.34	0-360	200	H
4	1.589	30.4	PK	28.3	-31.4	.8	28.1	-	-	74	-45.9	0-360	100	V
5	2.741	29.43	PK	32.1	-30.1	.6	32.03	-	-	74	-41.97	0-360	200	V
6	5.423	28.46	PK	34.5	-27.9	.4	35.46	-	-	74	-38.54	0-360	200	V

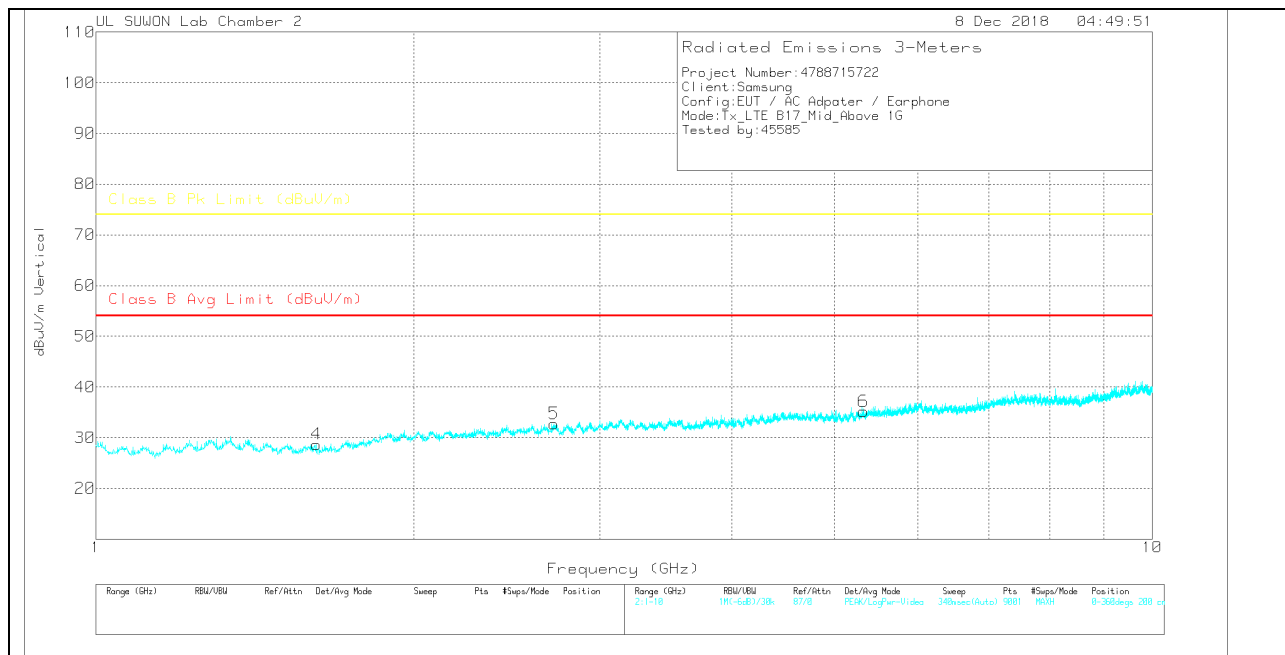
PK – Peak Detector

MID CHANNEL(740.0MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

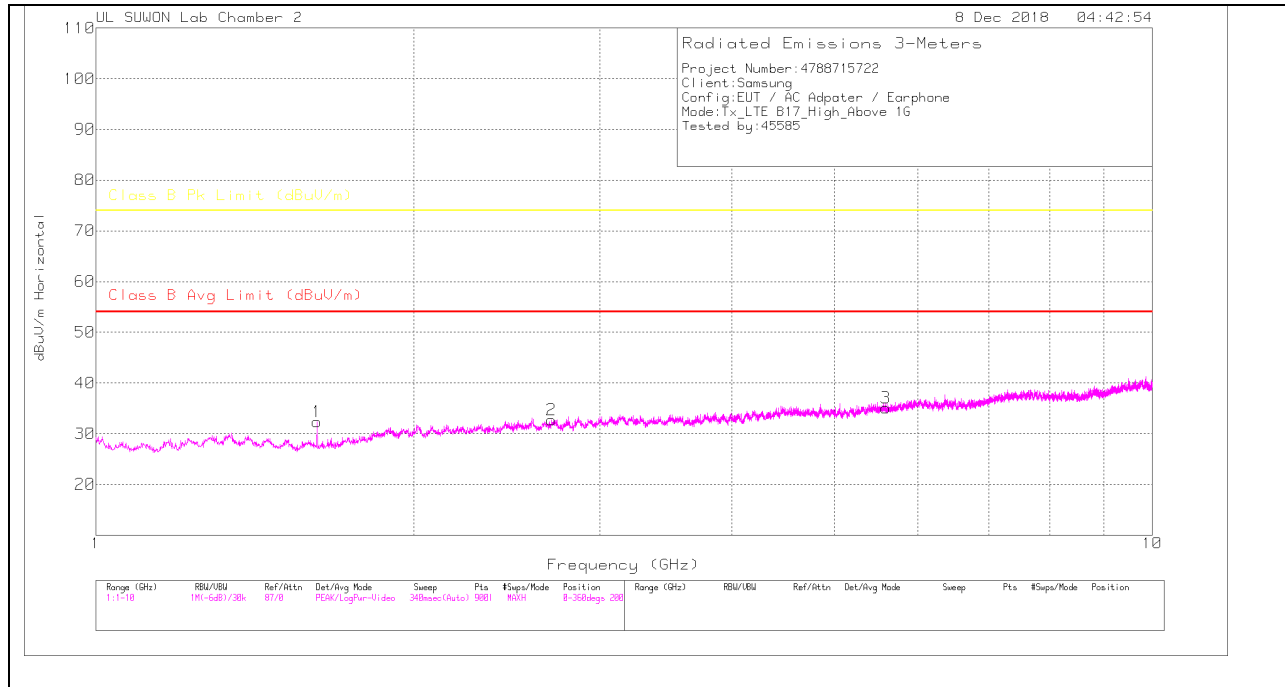
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Avg(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.619	34.49	PK	28.3	-31.4	.8	32.19	-	-	74	-41.81	0-360	200	H
2	2.714	30.24	PK	32.1	-30.2	.9	33.04	-	-	74	-40.96	0-360	200	H
3	5.335	29.51	PK	34.5	-28.4	.4	36.01	-	-	74	-37.99	0-360	200	H
4	1.617	31.01	PK	28.3	-31.4	.8	28.71	-	-	74	-45.29	0-360	200	V
5	2.715	29.99	PK	32.1	-30.1	.8	32.79	-	-	74	-41.21	0-360	100	V
6	5.328	28.76	PK	34.5	-28.5	.4	35.16	-	-	74	-38.84	0-360	200	V

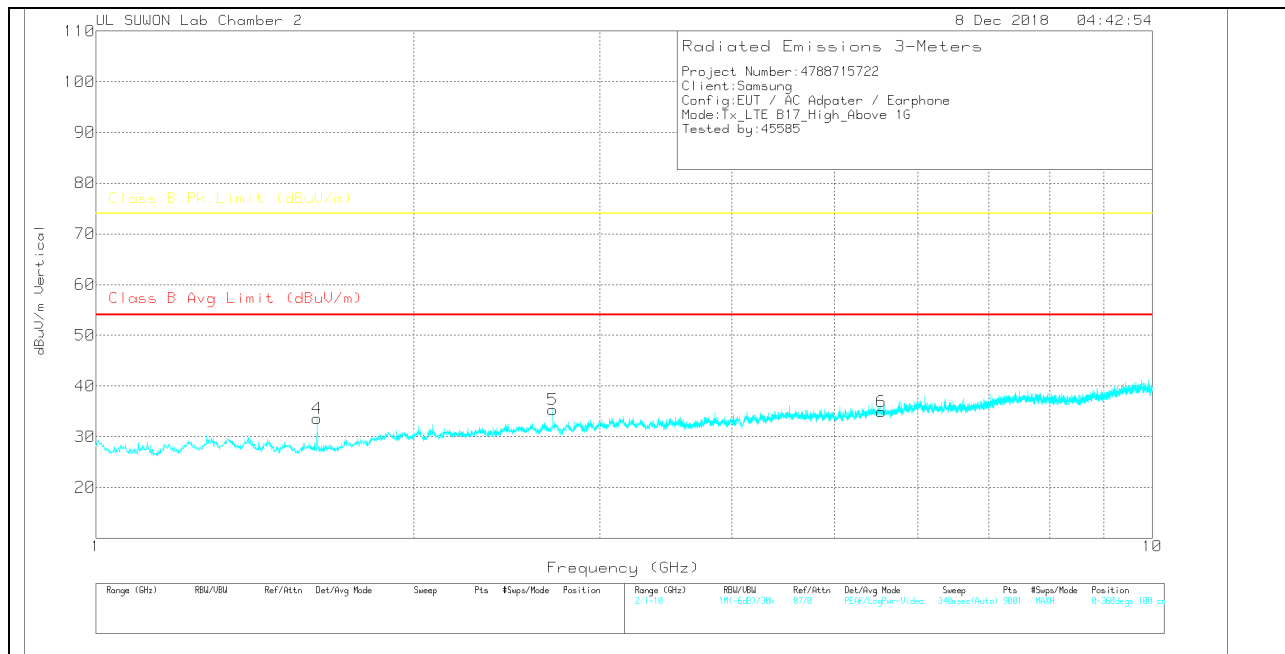
PK – Peak Detector

HIGH CHANNEL(743.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

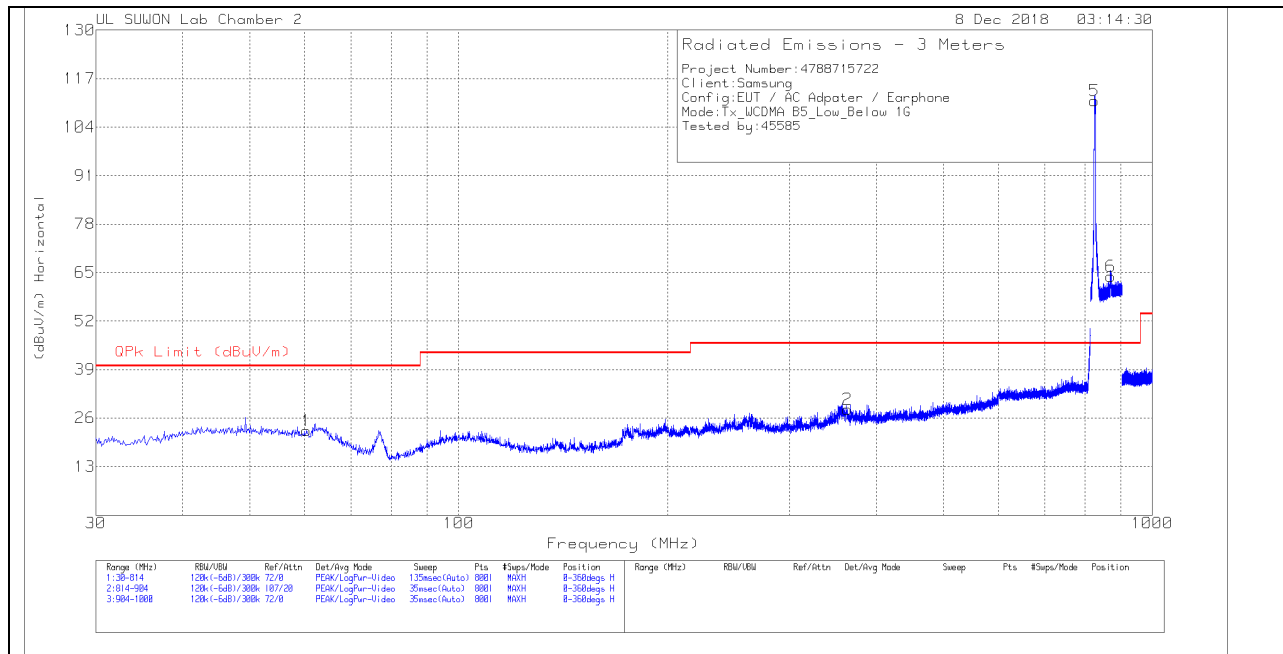
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Avg(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.619	34.62	PK	28.3	-31.4	.8	32.32	-	-	74	-41.68	0-360	200	H
2	2.7	30.07	PK	32.1	-30.3	.9	32.77	-	-	74	-41.23	0-360	200	H
3	5.596	27.92	PK	34.6	-27.8	.4	35.12	-	-	74	-38.88	0-360	100	H
4	1.62	35.94	PK	28.3	-31.4	.8	33.64	-	-	74	-40.36	0-360	200	V
5	2.707	32.68	PK	32.1	-30.3	.9	35.38	-	-	74	-38.62	0-360	200	V
6	5.543	27.53	PK	34.6	-27.7	.5	34.93	-	-	74	-39.07	0-360	100	V

PK – Peak Detector

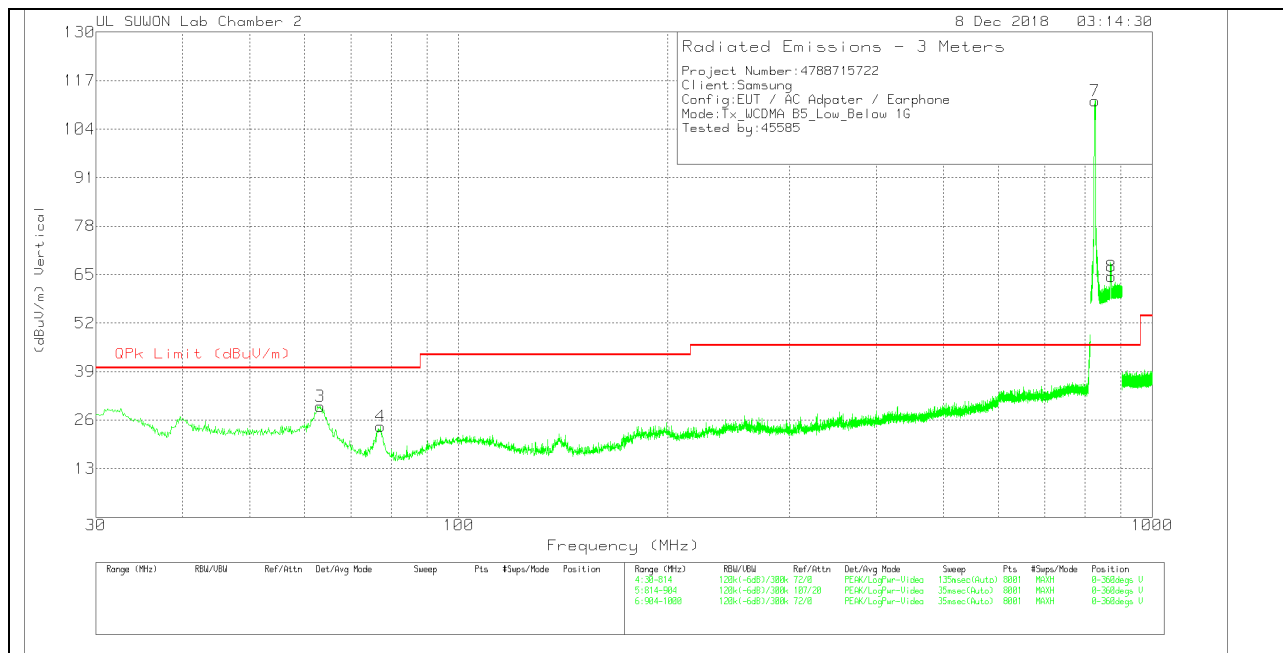
Below 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

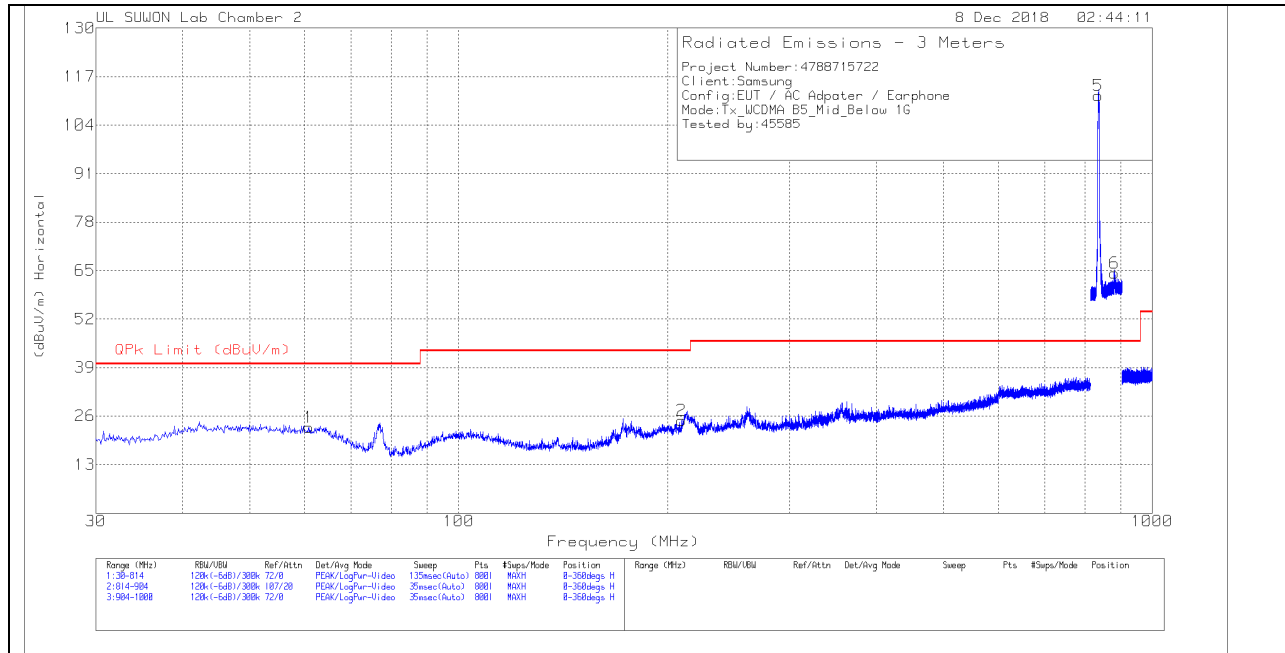
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.38	3.46	Pk	18.4	.8	22.66	40	-17.34	0-360	300	H
2	363.494	5.88	Pk	20.3	2.1	28.28	46.02	-17.74	0-360	100	H
5	825.52	80.91	Pk	27	3.1	111.01	46.02	64.99	0-360	200	H
6	870.9588	32.91	Pk	27.9	3.2	64.01	46.02	17.99	0-360	200	H
3	63.124	10.95	Pk	17.8	.9	29.65	40	-10.35	0-360	100	V
4	77.236	10.47	Pk	12.9	.9	24.27	40	-15.73	0-360	100	V
7	827.0388	81.43	Pk	27	3.1	111.53	46.02	65.51	0-360	100	V
8	873.1863	33.32	Pk	28	3.2	64.52	46.02	18.5	0-360	100	V

Pk - Peak detector

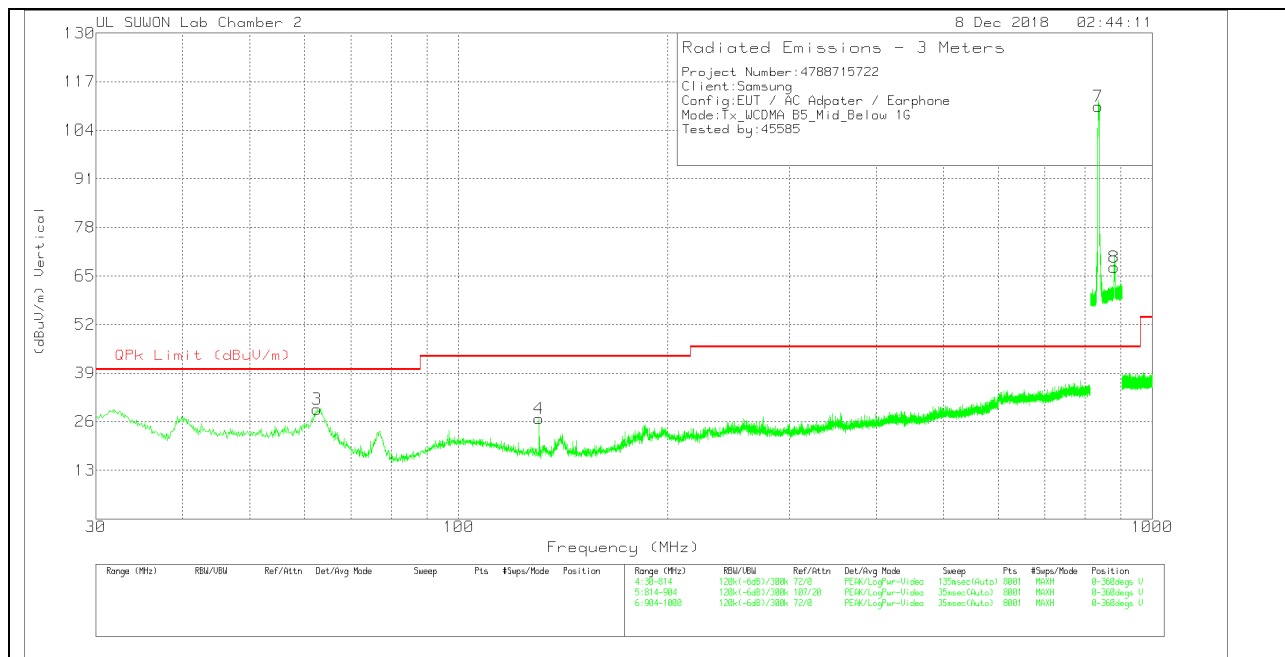
NOTE : Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

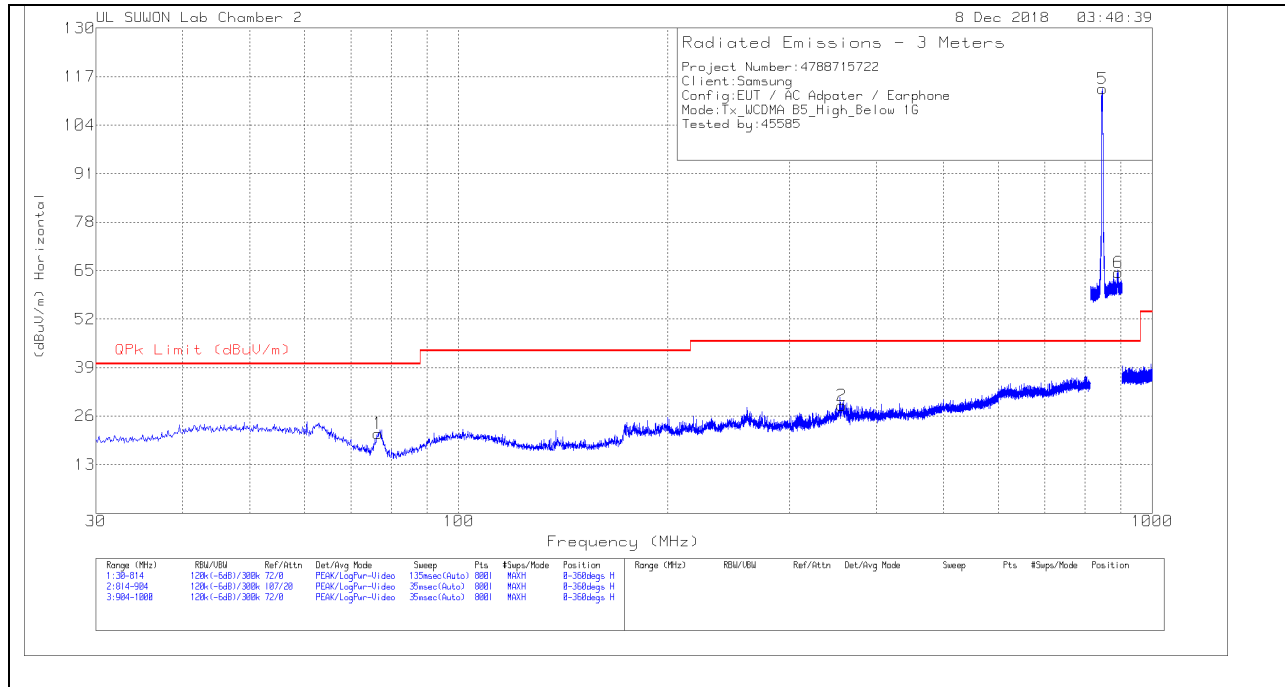
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.87	3.79	Pk	18.3	.8	22.89	40	-17.11	0-360	300	H
2	209.536	6.23	Pk	17	1.6	24.83	43.52	-18.69	0-360	100	H
5	835.8813	81.74	Pk	27.1	3.1	111.94	46.02	65.92	0-360	200	H
6	882.7488	33.15	Pk	28	3.2	64.35	46.02	18.33	0-360	200	H
3	62.536	10.5	Pk	17.9	.9	29.3	40	-10.7	0-360	100	V
4	130.646	11.49	Pk	14.2	1.2	26.89	43.52	-16.63	0-360	100	V
7	836.0275	80.13	Pk	27.1	3.1	110.33	46.02	64.31	0-360	100	V
8	881.1288	35.97	Pk	28.1	3.2	67.27	46.02	21.25	0-360	100	V

Pk - Peak detector

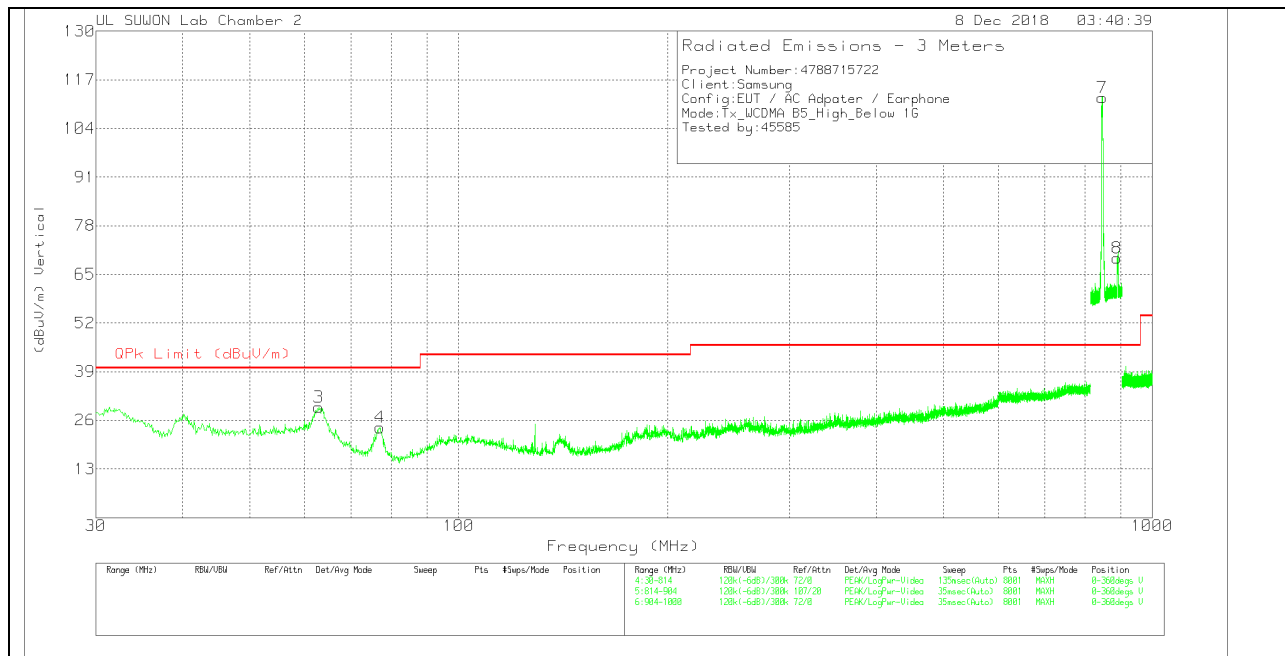
NOTE : Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	76.55	7.25	Pk	13.1	1	21.35	40	-18.65	0-360	300	H
2	357.026	6.41	Pk	20.4	2	28.81	46.02	-17.21	0-360	100	H
5	846.9738	83.25	Pk	27.3	3.2	113.75	46.02	67.73	0-360	200	H
6	892.5138	33.18	Pk	28	3.3	64.48	46.02	18.46	0-360	200	H
3	62.83	10.95	Pk	17.8	.8	29.55	40	-10.45	0-360	100	V
4	77.04	10.05	Pk	13	1	24.05	40	-15.95	0-360	100	V
7	846.9288	81.67	Pk	27.3	3.2	112.17	46.02	66.15	0-360	100	V
8	890.1288	38.02	Pk	28.1	3.2	69.32	46.02	23.3	0-360	100	V

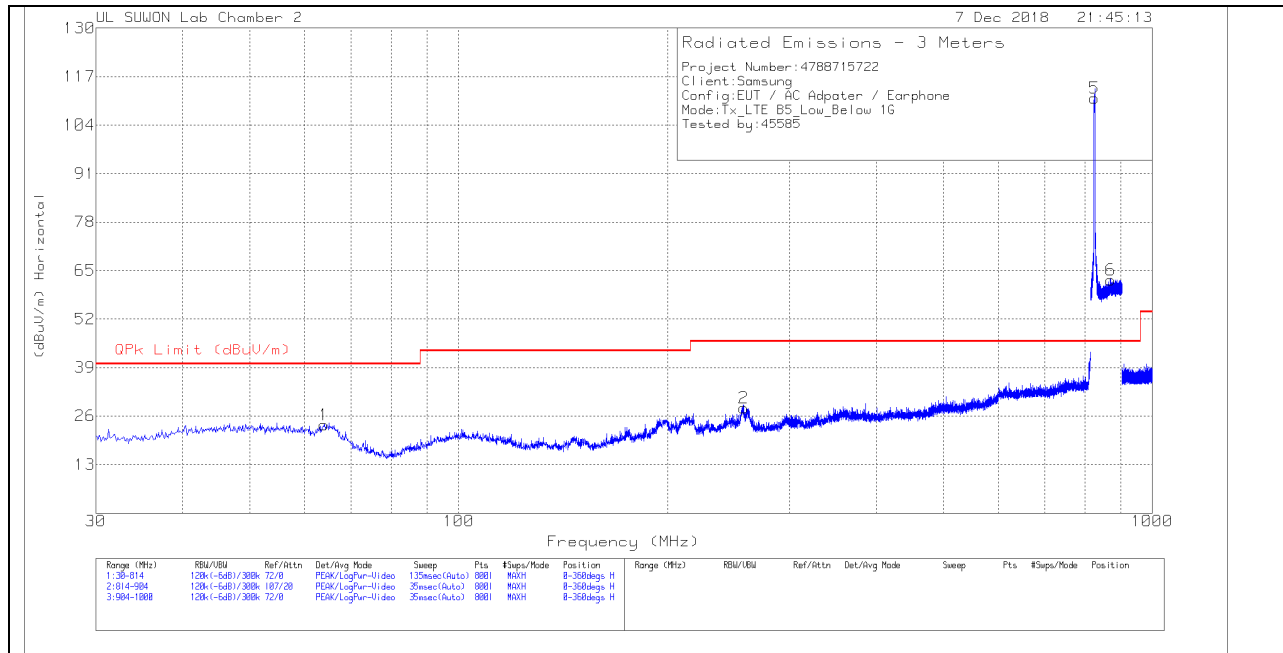
Pk - Peak detector

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

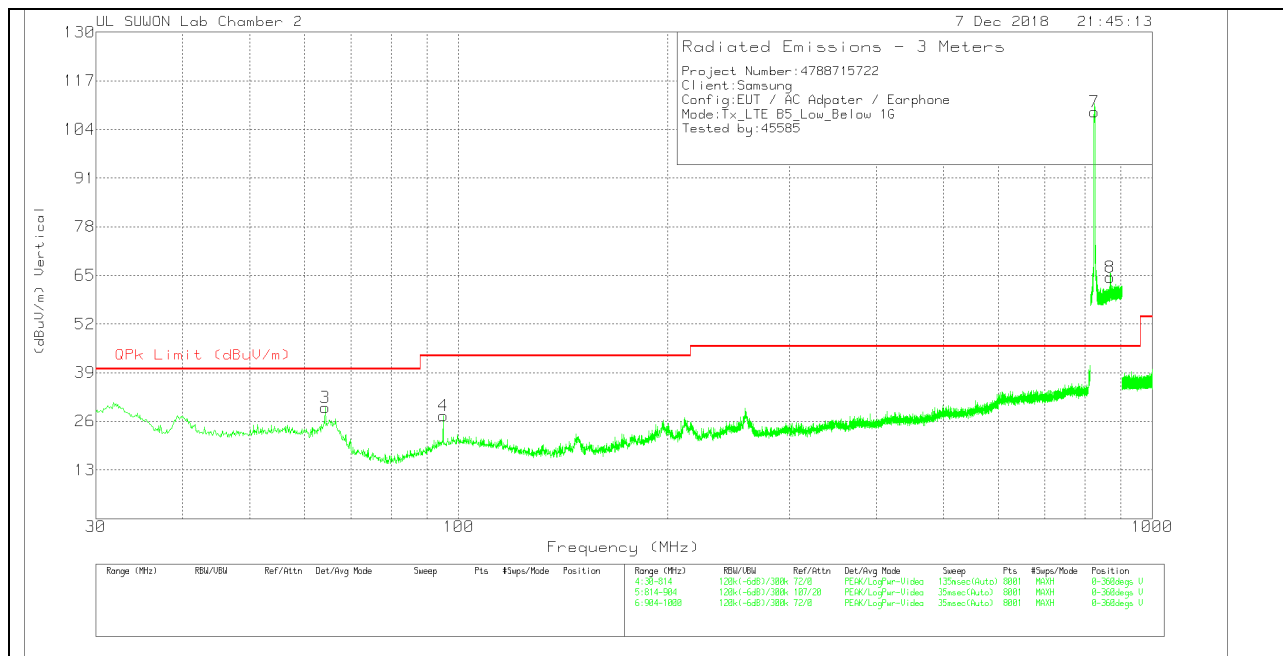
Below 1 GHz in the LTE Band 5

LOW CHANNEL(870.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

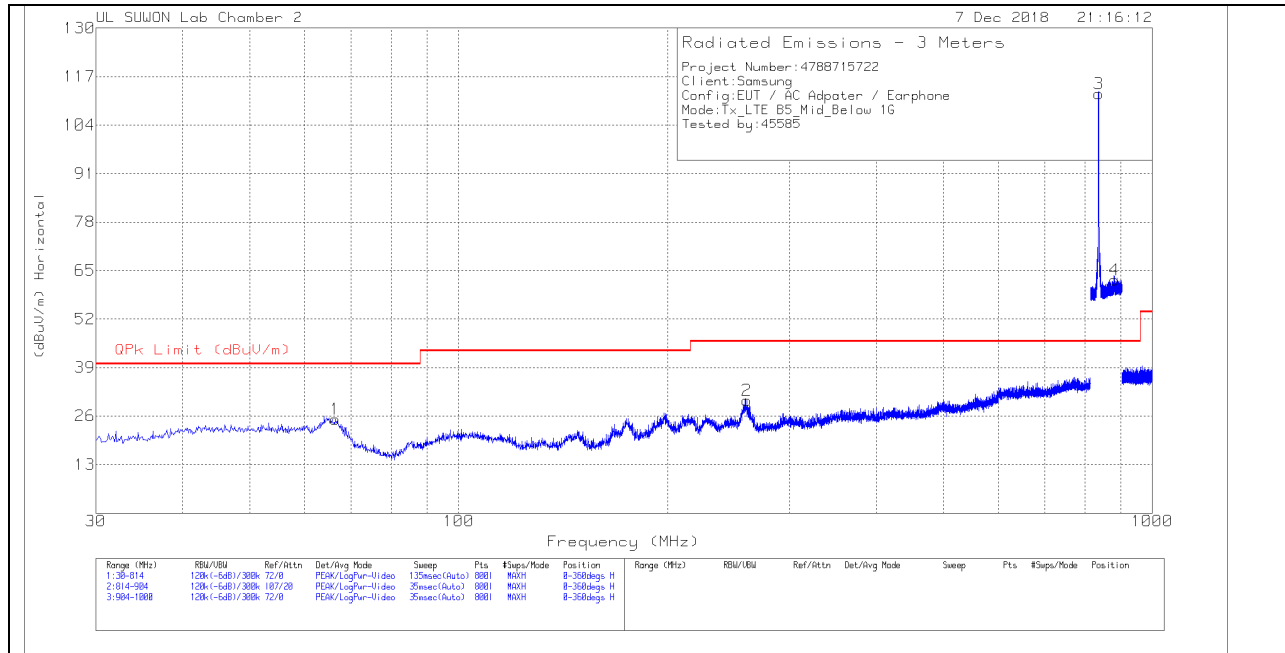
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	63.908	5.13	Pk	17.6	.9	23.63	40	-16.37	0-360	400	H
2	257.654	7.4	Pk	19	1.7	28.1	46.02	-17.92	0-360	100	H
5	825.8575	81.04	Pk	27	3.1	111.14	46.02	65.12	0-360	200	H
6	870.8913	31.36	Pk	27.9	3.2	62.46	46.02	16.44	0-360	300	H
3	64.202	11.23	Pk	17.5	.9	29.63	40	-10.37	0-360	200	V
4	94.974	9.32	Pk	17.2	1	27.52	43.52	-16	0-360	100	V
7	825.5425	78.61	Pk	27	3.1	108.71	46.02	62.69	0-360	100	V
8	869.9238	33.42	Pk	27.9	3.2	64.52	46.02	18.5	0-360	100	V

Pk - Peak detector

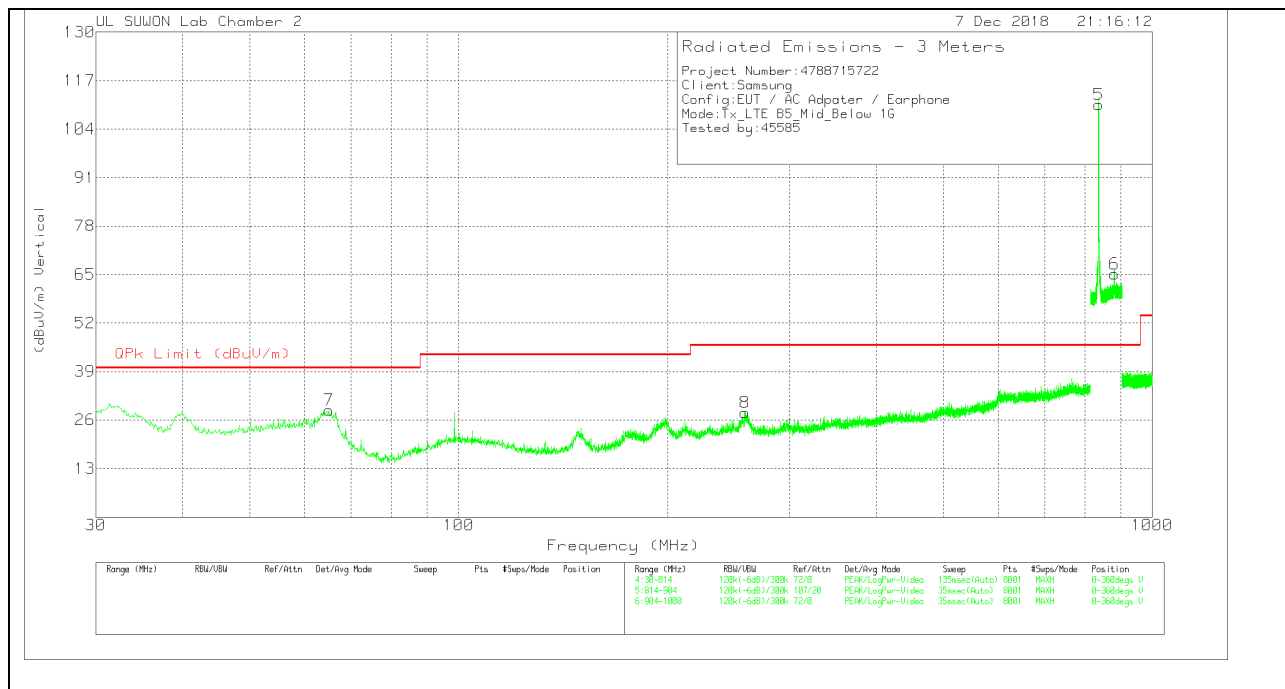
NOTE : Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

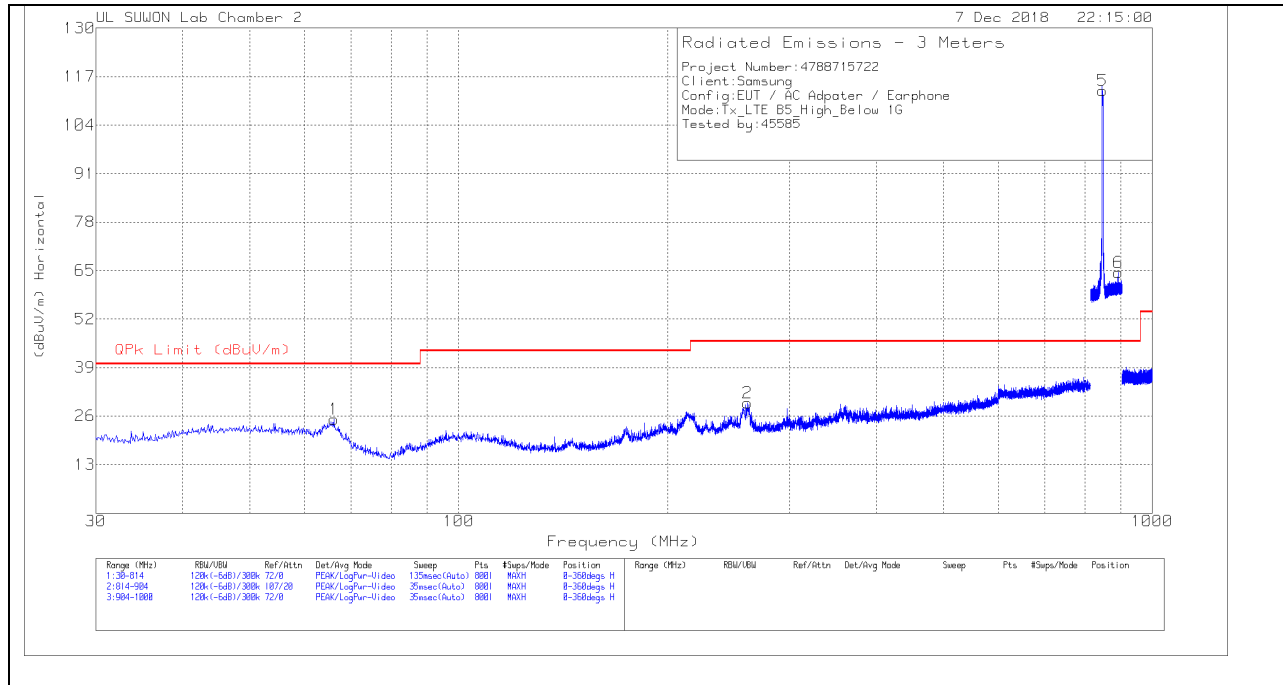
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.456	7.48	Pk	16.8	.9	25.18	40	-14.82	0-360	400	H
2	260.202	9.61	Pk	18.8	1.7	30.11	46.02	-15.91	0-360	100	H
3	836.455	82.2	Pk	27.1	3.1	112.4	46.02	66.38	0-360	200	H
4	881.8938	31.33	Pk	28	3.2	62.53	46.02	16.51	0-360	200	H
7	64.986	10.52	Pk	17.2	.9	28.62	40	-11.38	0-360	100	V
8	258.928	7.38	Pk	18.9	1.7	27.98	46.02	-18.04	0-360	200	V
5	836.5	80.35	Pk	27.1	3.1	110.55	46.02	64.53	0-360	100	V
6	881.5563	34.02	Pk	28	3.2	65.22	46.02	19.2	0-360	100	V

Pk - Peak detector

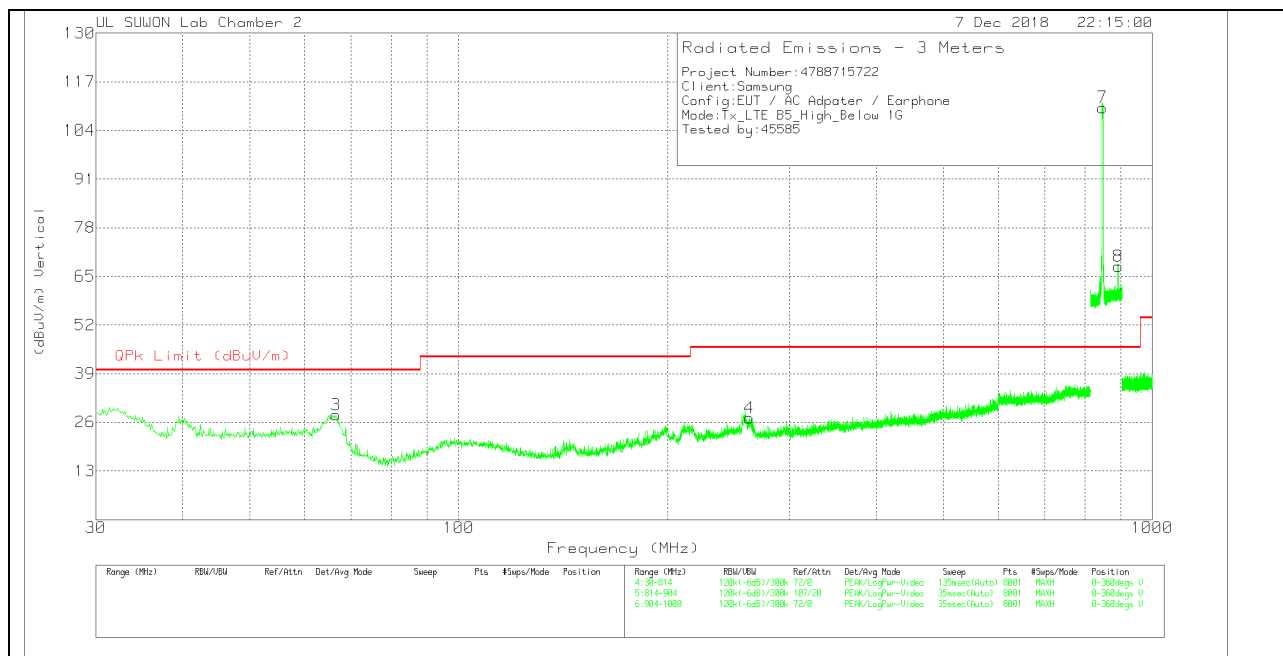
NOTE : Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(892.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.064	7.3	Pk	16.9	.9	25.1	40	-14.9	0-360	100	H
2	260.692	8.95	Pk	18.8	1.7	29.45	46.02	-16.57	0-360	100	H
5	847.7163	82.79	Pk	27.3	3.2	113.29	46.02	67.27	0-360	200	H
6	892.5138	33.11	Pk	28	3.3	64.41	46.02	18.39	0-360	200	H
3	66.554	10.43	Pk	16.7	.8	27.93	40	-12.07	0-360	100	V
4	262.26	6.69	Pk	18.7	1.7	27.09	46.02	-18.93	0-360	200	V
7	847.525	79.62	Pk	27.3	3.2	110.12	46.02	64.1	0-360	100	V
8	892.6825	36.31	Pk	28	3.3	67.61	46.02	21.59	0-360	100	V

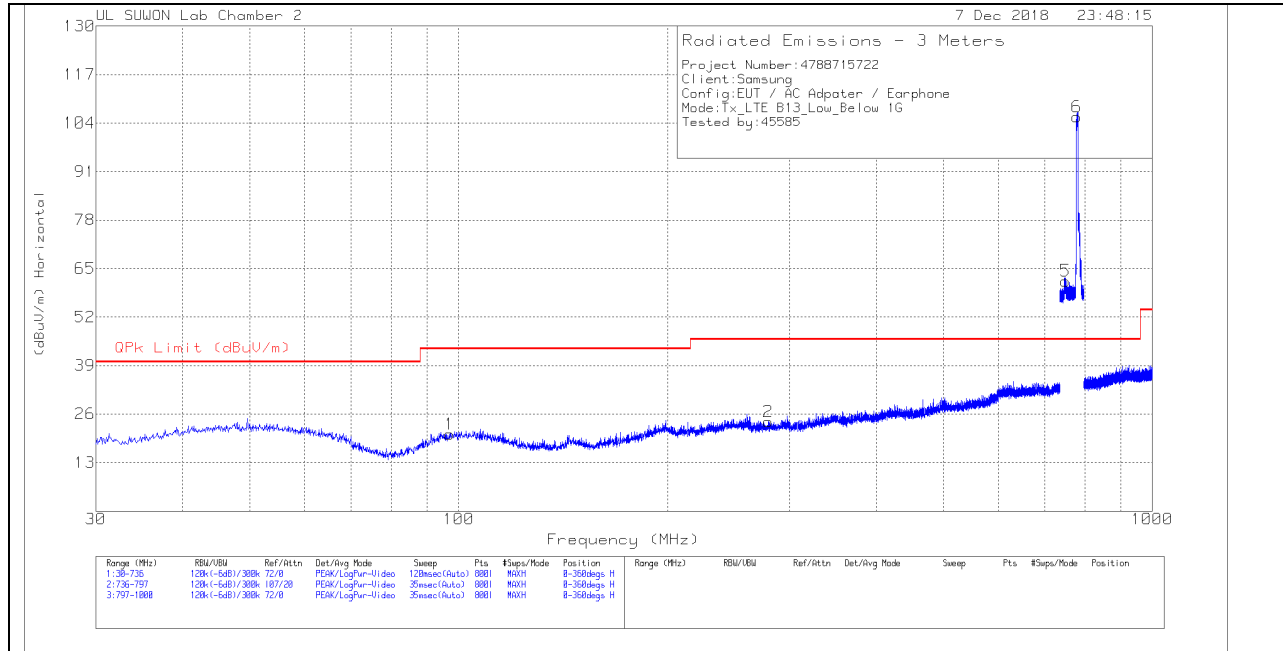
Pk - Peak detector

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

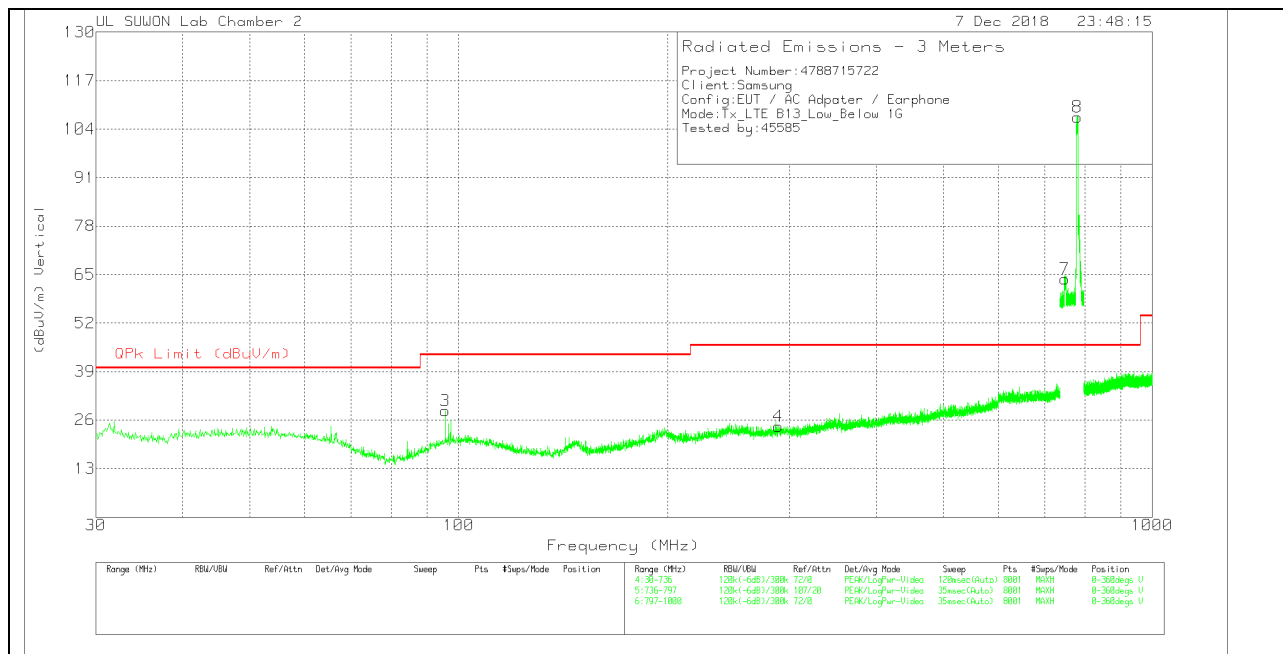
Below 1 GHz in the LTE Band 13

LOW CHANNEL(748.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

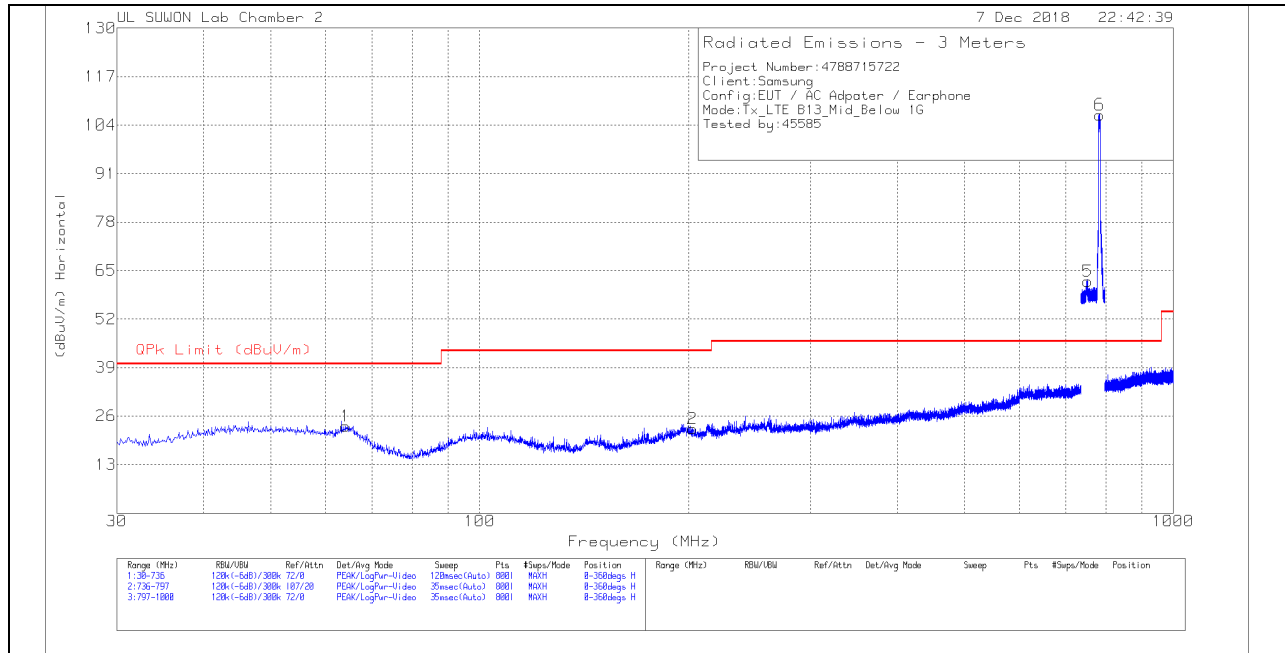
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	96.9818	2.26	Pk	17.4	1	20.66	43.52	-22.86	0-360	100	H
2	279.6593	3.34	Pk	18.8	1.8	23.94	46.02	-22.08	0-360	200	H
5	749.0006	31.9	Pk	26.8	3	61.7	46.02	15.68	0-360	100	H
6	779.0431	76.02	Pk	26.7	3	105.72	46.02	59.7	0-360	200	H
3	95.658	10.26	Pk	17.3	1	28.56	43.52	-14.96	0-360	100	V
4	288.749	3.34	Pk	19.1	1.9	24.34	46.02	-21.68	0-360	200	V
7	747.7578	34.1	Pk	26.7	3	63.8	46.02	17.78	0-360	100	V
8	779.5693	77.56	Pk	26.7	3	107.26	46.02	61.24	0-360	100	V

Pk - Peak detector

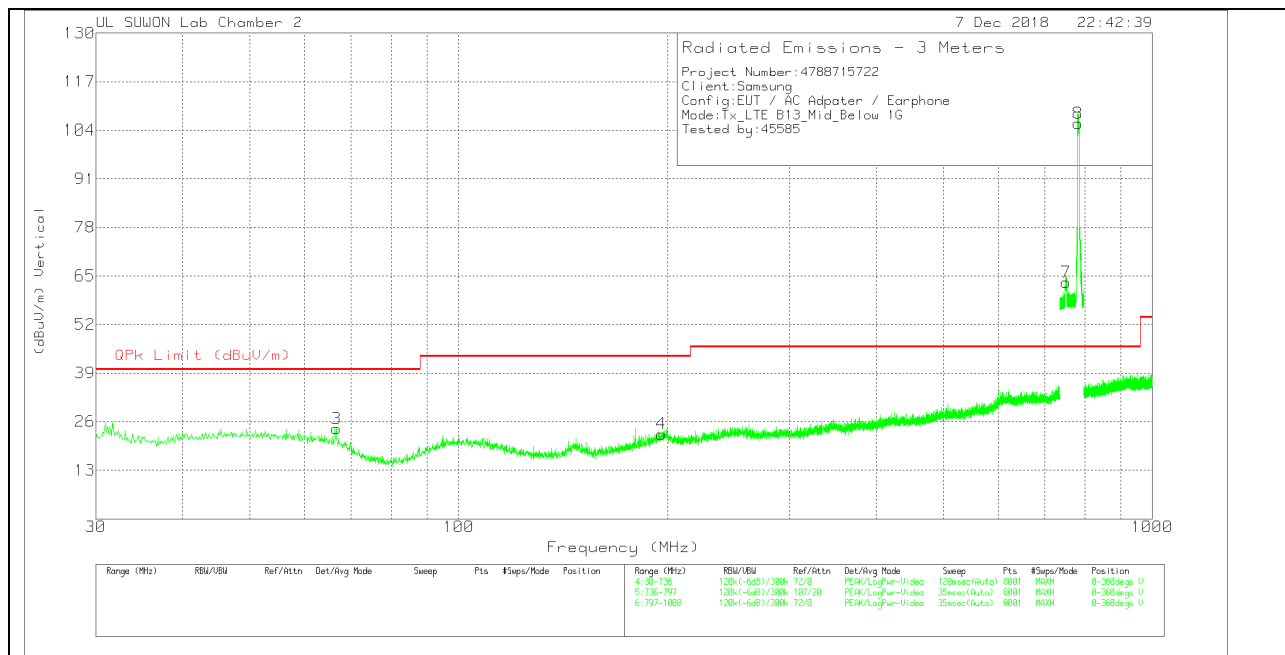
NOTE : Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(751.0MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

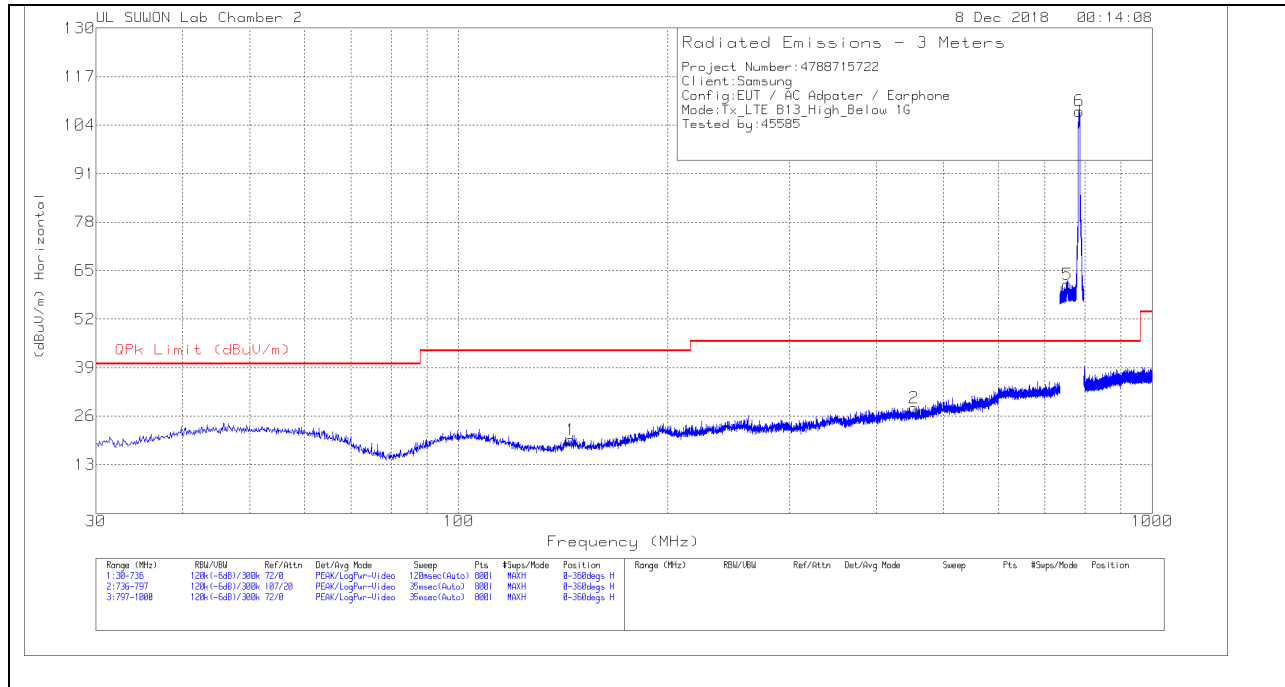
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	64.0645	4.96	Pk	17.5	.9	23.36	40	-16.64	0-360	100	H
2	202.8818	3.62	Pk	17.5	1.5	22.62	43.52	-20.9	0-360	200	H
5	752.104	32.16	Pk	26.9	3	62.06	46.02	16.04	0-360	100	H
6	782.6116	77.06	Pk	26.7	3	106.76	46.02	60.74	0-360	200	H
3	66.6238	6.61	Pk	16.7	.8	24.11	40	-15.89	0-360	100	V
4	195.91	3	Pk	18.2	1.5	22.7	43.52	-20.82	0-360	300	V
7	751.6084	33.51	Pk	26.8	3	63.31	46.02	17.29	0-360	100	V
8	781.8644	76.11	Pk	26.7	3	105.81	46.02	59.79	0-360	100	V

Pk - Peak detector

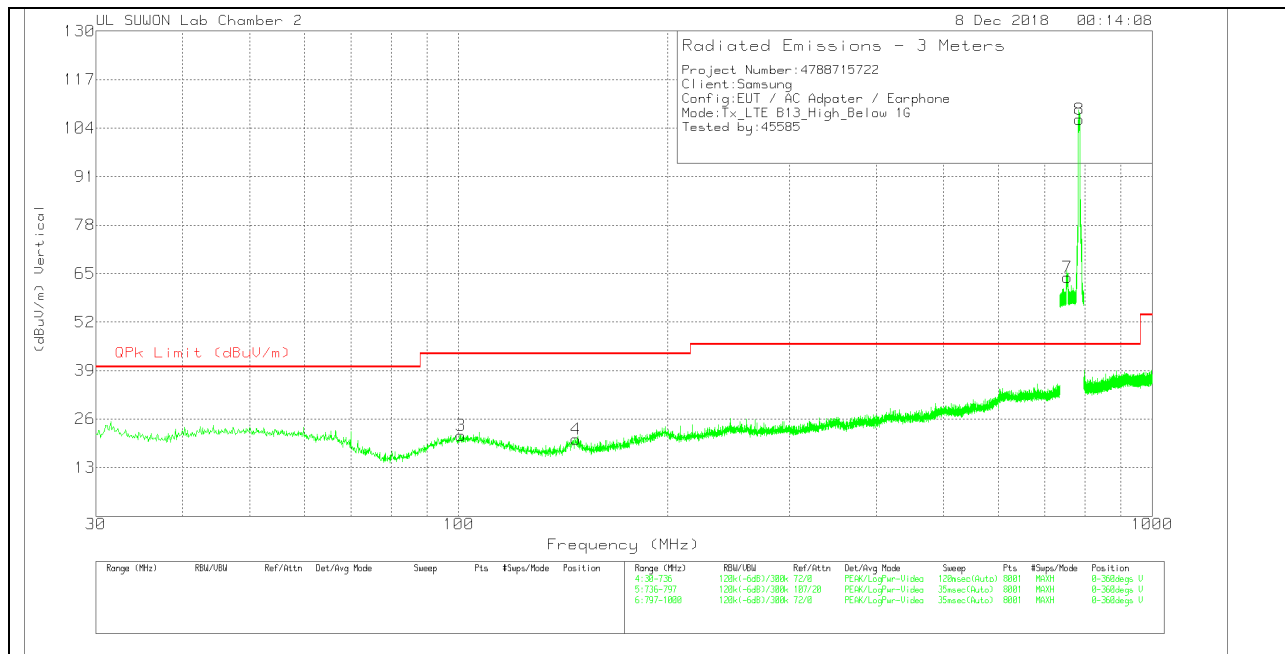
NOTE : Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(753.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	145.1663	4.14	Pk	14.1	1.3	19.54	43.52	-23.98	0-360	200	H
2	453.7765	3.5	Pk	22.3	2.3	28.1	46.02	-17.92	0-360	300	H
5	754.117	31.44	Pk	26.9	3	61.34	46.02	15.32	0-360	100	H
6	785.0898	78.07	Pk	26.7	3	107.77	46.02	61.75	0-360	200	H
3	100.8648	2.85	Pk	17.7	1.1	21.65	43.52	-21.87	0-360	300	V
4	147.6373	5.12	Pk	14.1	1.3	20.52	43.52	-23	0-360	100	V
7	753.7053	34.04	Pk	26.9	3	63.94	46.02	17.92	0-360	100	V
8	784.2129	76.65	Pk	26.7	3	106.35	46.02	60.33	0-360	100	V

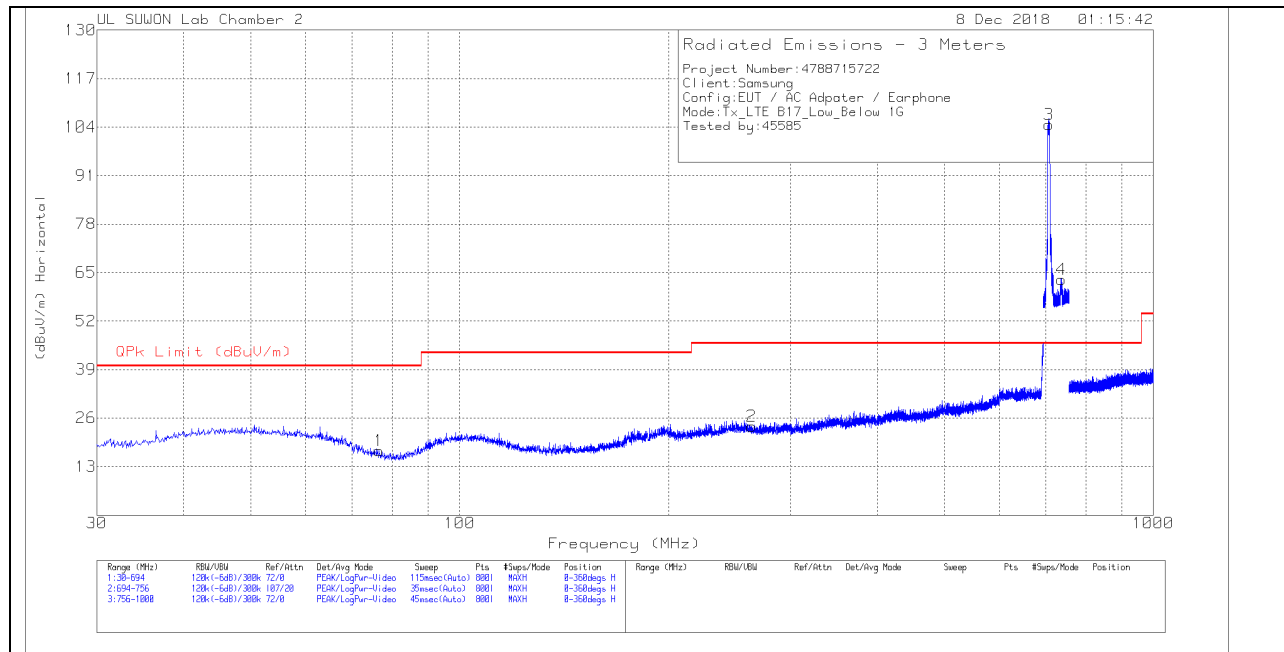
Pk - Peak detector

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

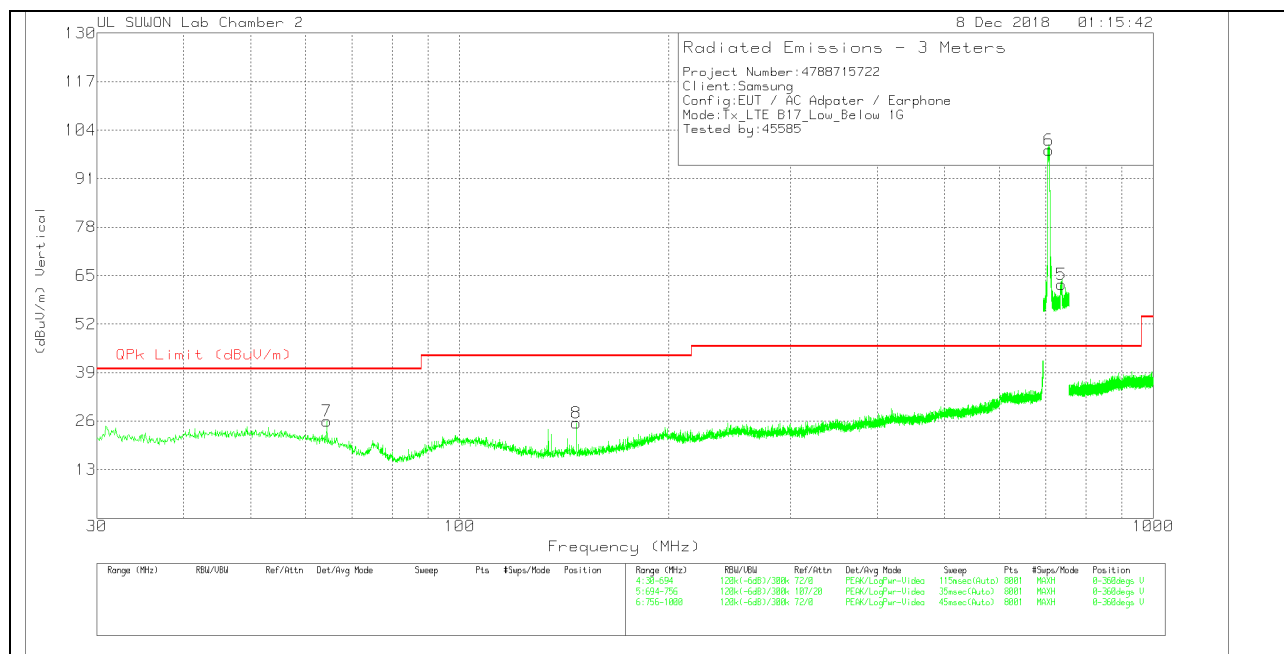
Below 1 GHz in the LTE Band 17

LOW CHANNEL(736.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

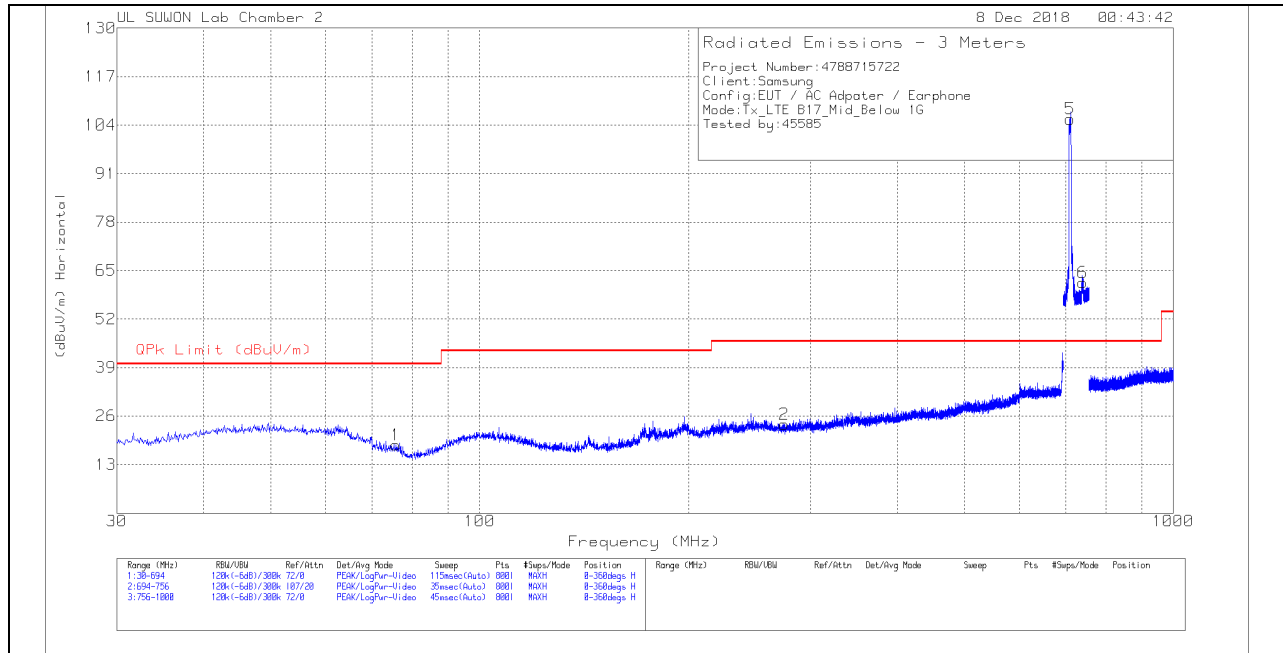
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	76.563	3.3	Pk	13.1	.9	17.3	40	-22.7	0-360	300	H
2	263.645	3.45	Pk	18.6	1.7	23.75	46.02	-22.27	0-360	100	H
3	707.299	76.3	Pk	25.5	2.9	104.7	46.02	58.68	0-360	100	H
4	737.276	33.9	Pk	26.4	2.9	63.2	46.02	17.18	0-360	100	H
7	64.362	7.75	Pk	17.4	.9	26.05	40	-13.95	0-360	200	V
8	147.279	10.14	Pk	14.1	1.3	25.54	43.52	-17.98	0-360	200	V
5	737.1288	33.36	Pk	26.4	2.9	62.66	46.02	16.64	0-360	100	V
6	707.3533	70.17	Pk	25.5	2.9	98.57	46.02	52.55	0-360	100	V

Pk - Peak detector

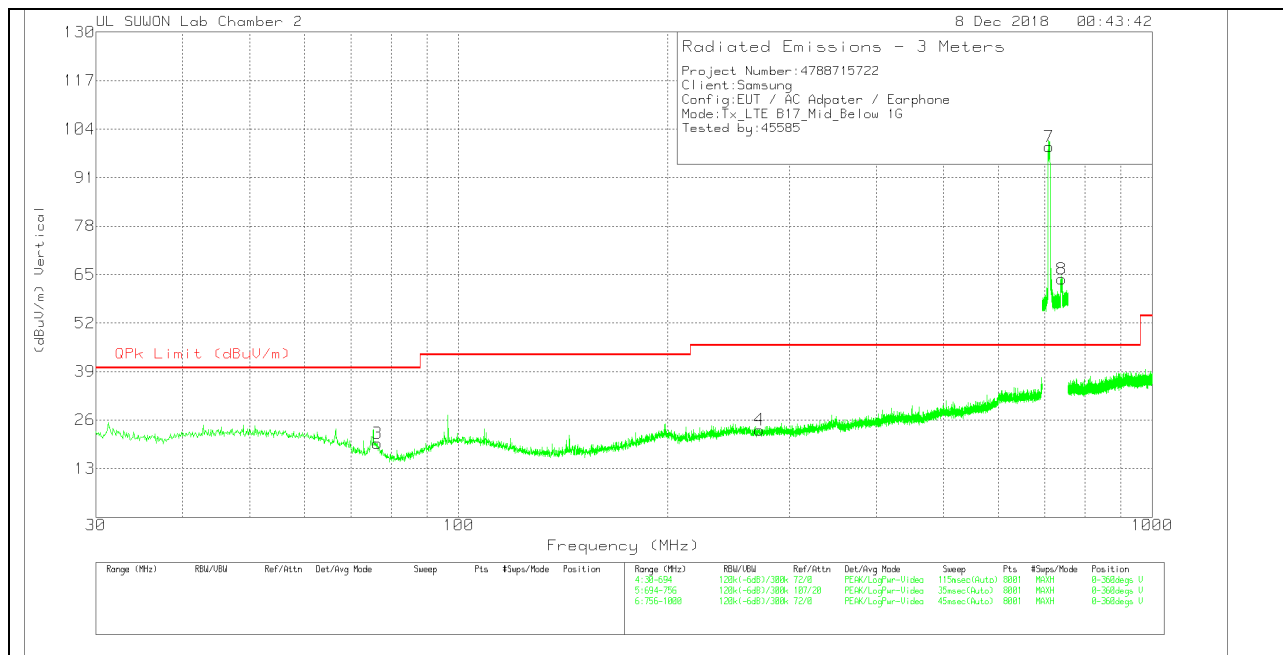
NOTE : Unwanted emissions captured from 704MHz to 716MHz and from 734MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(740.0MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

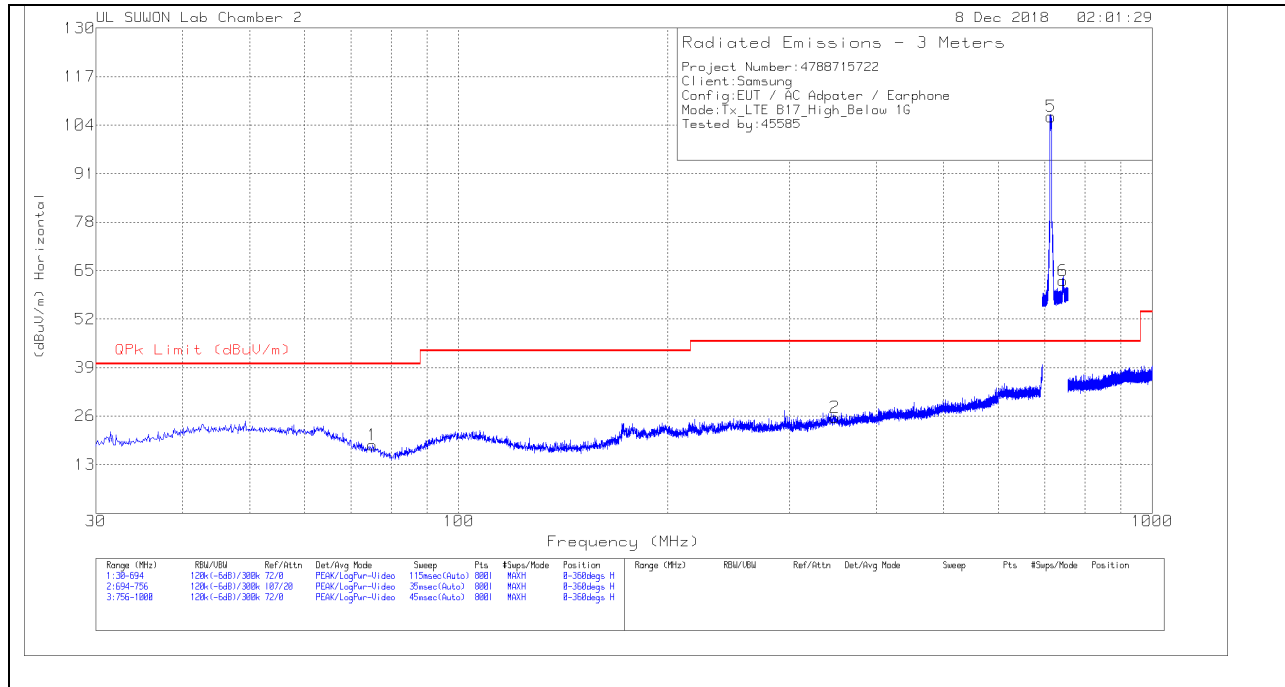
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	75.733	3.92	Pk	13.4	.9	18.22	40	-21.78	0-360	300	H
2	274.601	3.3	Pk	18.7	1.8	23.8	46.02	-22.22	0-360	100	H
5	709.841	77.19	Pk	25.5	2.9	105.59	46.02	59.57	0-360	100	H
6	740.2675	32.44	Pk	26.5	2.9	61.84	46.02	15.82	0-360	100	H
3	76.397	5.7	Pk	13.2	.9	19.8	40	-20.2	0-360	100	V
4	271.613	2.97	Pk	18.6	1.8	23.37	46.02	-22.65	0-360	100	V
7	709.9495	70.81	Pk	25.5	2.9	99.21	46.02	53.19	0-360	200	V
8	740.3605	34.43	Pk	26.5	2.9	63.83	46.02	17.81	0-360	100	V

Pk - Peak detector

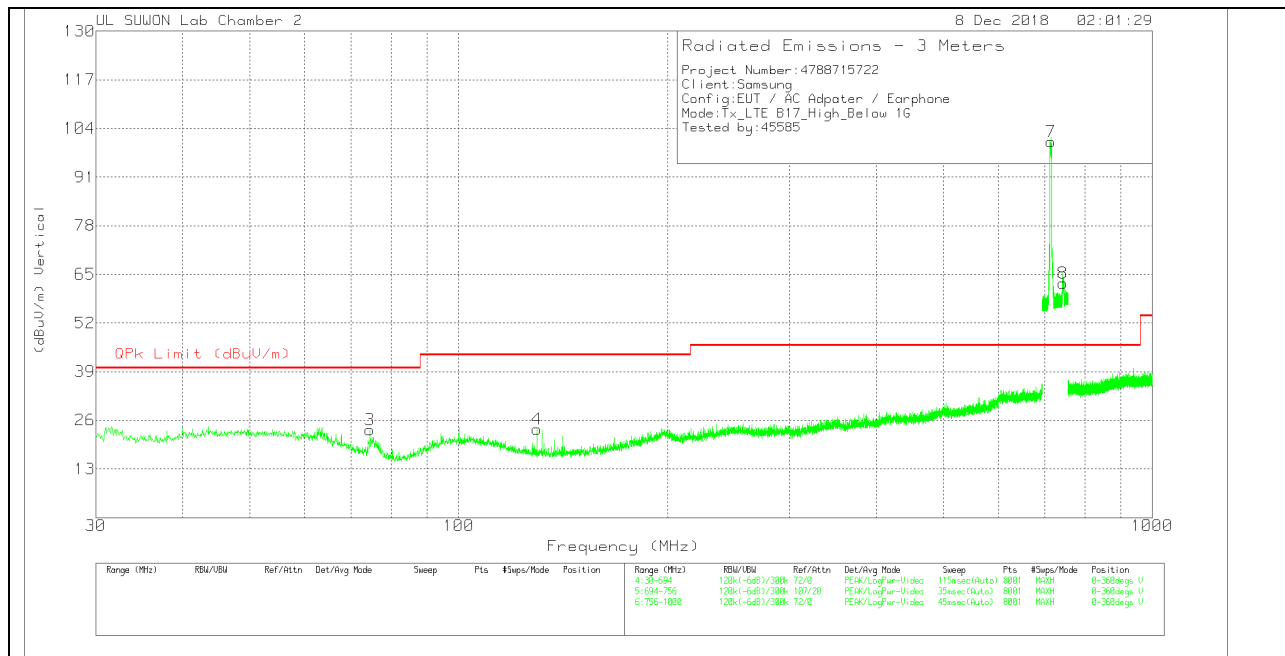
NOTE : Unwanted emissions captured from 704MHz to 716MHz and from 734MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	75.152	3.89	Pk	13.5	.9	18.29	40	-21.71	0-360	200	H
2	348.305	2.57	Pk	21	2	25.57	46.02	-20.45	0-360	400	H
5	714.0338	77.76	Pk	25.6	2.9	106.26	46.02	60.24	0-360	100	H
6	742.7553	32.67	Pk	26.6	3	62.27	46.02	16.25	0-360	100	H
3	74.488	8.81	Pk	13.7	.9	23.41	40	-16.59	0-360	100	V
4	129.683	8.16	Pk	14.3	1.2	23.66	43.52	-19.86	0-360	200	V
7	714.0183	71.94	Pk	25.6	2.9	100.44	46.02	54.42	0-360	100	V
8	743.0653	33.11	Pk	26.6	2.9	62.61	46.02	16.59	0-360	100	V

Pk - Peak detector

NOTE : Unwanted emissions captured from 704MHz to 716MHz and from 734MHz to 746MHz were the TX and RX signals generated from the call-simulator.

7.3. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4: 2014

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

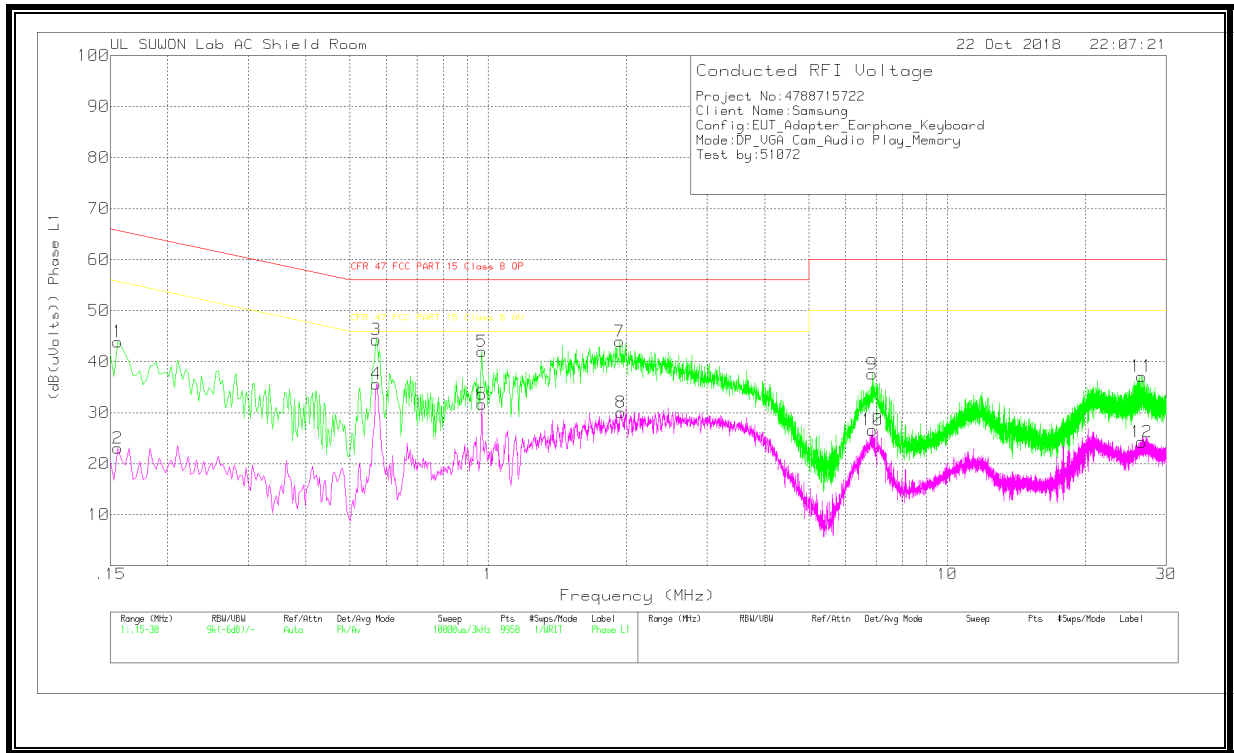
Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

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

RESULTS

WORST EMISSIONS(with Keyboard DP VGA Cam Audio Play Memory mode)

Line-L1 .15 - 30MHz



LINE 1 RESULTS

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.156	33.97	Pk	9.8	.1	43.87	65.67	-21.8	-	-
2	.156	13.13	Av	9.8	.1	23.03	-	-	55.67	-32.64
3	.57	34.19	Pk	9.9	.2	44.29	56	-11.71	-	-
4	.57	25.52	Av	9.9	.2	35.62	-	-	46	-10.38
5	.969	31.89	Pk	9.8	.3	41.99	56	-14.01	-	-
6	.969	21.59	Av	9.8	.3	31.69	-	-	46	-14.31
7	1.935	33.97	Pk	9.7	.3	43.97	56	-12.03	-	-
8	1.944	20.04	Av	9.7	.3	30.04	-	-	46	-15.96
9	6.861	27.55	Pk	9.7	.3	37.55	60	-22.45	-	-
10	6.87	16.56	Av	9.7	.3	26.56	-	-	50	-23.44
11	26.544	27	Pk	9.8	.3	37.1	60	-22.9	-	-
12	26.523	14.13	Av	9.8	.3	24.23	-	-	50	-25.77

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15615	13.76	Ca	9.8	.1	23.66	-	-	55.67	-32.01
.57075	25.05	Ca	9.9	.2	35.15	-	-	46	-10.85
.96915	20.28	Ca	9.8	.3	30.38	-	-	46	-15.62
1.93425	20.36	Ca	9.7	.3	30.36	-	-	46	-15.64
6.86115	14.48	Ca	9.7	.3	24.48	-	-	50	-25.52
26.5442	13.94	Ca	9.8	.3	24.04	-	-	50	-25.96

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15615	29.5	Qp	9.8	.1	39.4	65.67	-26.27	-	-
.57075	32.25	Qp	9.9	.2	42.35	56	-13.65	-	-
.96915	29.5	Qp	9.8	.3	39.6	56	-16.4	-	-
1.93575	30.62	Qp	9.7	.3	40.62	56	-15.38	-	-
6.86025	20.98	Qp	9.7	.3	30.98	60	-29.02	-	-
26.5433	21.42	Qp	9.8	.3	31.52	60	-28.48	-	-

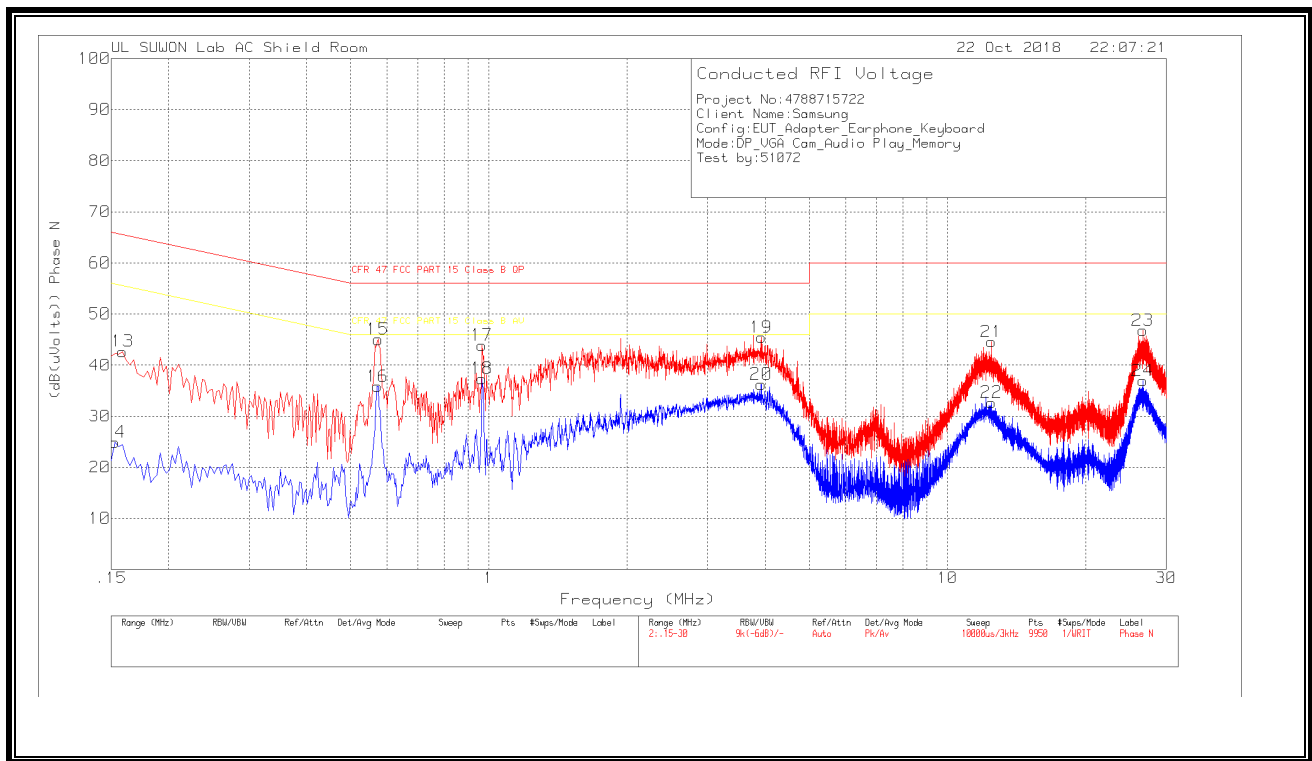
Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

Line-L2 .15 - 30MHz



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.159	32.77	Pk	9.8	.1	42.67	65.52	-22.85	-	-
14	.153	15.12	Av	9.7	.1	24.92	-	-	55.84	-30.92
15	.573	35.03	Pk	9.8	.2	45.03	56	-10.97	-	-
16	.5715	25.83	Av	9.8	.2	35.83	-	-	46	-10.17
17	.966	33.87	Pk	9.7	.3	43.87	56	-12.13	-	-
18	.966	27.36	Av	9.7	.3	37.36	-	-	46	-8.64
19	3.927	35.54	Pk	9.6	.3	45.44	56	-10.56	-	-
20	3.9255	26.36	Av	9.6	.3	36.26	-	-	46	-9.74
21	12.477	34.55	Pk	9.7	.3	44.55	60	-15.45	-	-
22	12.477	22.69	Av	9.7	.3	32.69	-	-	50	-17.31
23	26.655	36.68	Pk	9.8	.3	46.78	60	-13.22	-	-
24	26.655	26.82	Av	9.8	.3	36.92	-	-	50	-13.08

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15825	13.99	Ca	9.8	.1	23.89	-	-	55.56	-31.67
.57375	25.31	Ca	9.8	.2	35.31	-	-	46	-10.69
.96525	25.21	Ca	9.7	.3	35.21	-	-	46	-10.79
3.92775	23.61	Ca	9.6	.3	33.51	-	-	46	-12.49
12.4772	20.58	Ca	9.7	.3	30.58	-	-	50	-19.42
26.6558	25.45	Ca	9.8	.3	35.55	-	-	50	-14.45

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15825	29.47	Qp	9.8	.1	39.37	65.56	-26.19	-	-
.57225	32.87	Qp	9.8	.2	42.87	56	-13.13	-	-
.96675	30.39	Qp	9.7	.3	40.39	56	-15.61	-	-
3.92715	29.66	Qp	9.6	.3	39.56	56	-16.44	-	-
12.4763	28.2	Qp	9.7	.3	38.2	60	-21.8	-	-
26.6558	31.35	Qp	9.8	.3	41.45	60	-18.55	-	-

Pk - Peak detector

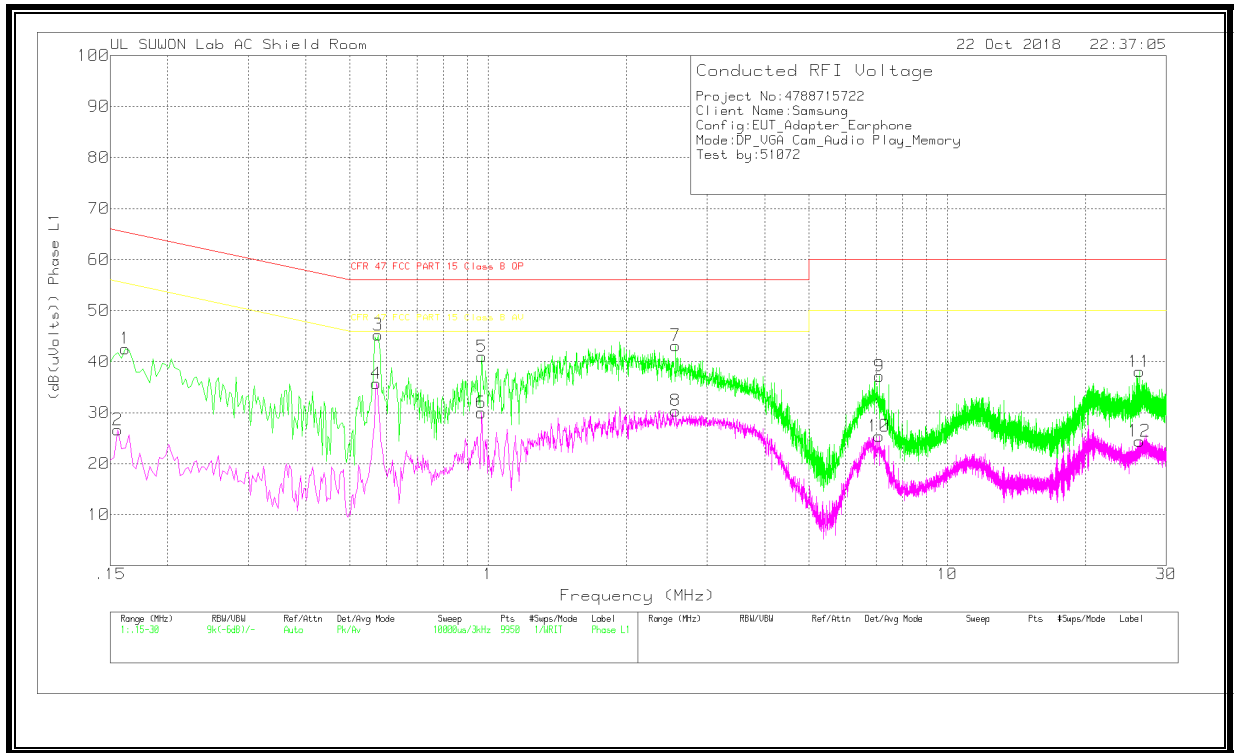
Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

WORST EMISSIONS(without Keyboard DP VGA Cam Audio Play Memory mode)

Line-L1 .15 - 30MHz



LINE 1 RESULTS

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.162	32.55	Pk	9.9	.1	42.55	65.36	-22.81	-	-
2	.156	16.75	Av	9.8	.1	26.65	-	-	55.67	-29.02
3	.576	35.14	Pk	9.9	.2	45.24	56	-10.76	-	-
4	.57	25.63	Av	9.9	.2	35.73	-	-	46	-10.27
5	.969	30.88	Pk	9.8	.3	40.98	56	-15.02	-	-
6	.966	19.91	Av	9.8	.3	30.01	-	-	46	-15.99
7	2.562	33.15	Pk	9.7	.3	43.15	56	-12.85	-	-
8	2.562	20.36	Av	9.7	.3	30.36	-	-	46	-15.64
9	7.113	27.16	Pk	9.7	.3	37.16	60	-22.84	-	-
10	7.104	15.4	Av	9.7	.3	25.4	-	-	50	-24.6
11	26.229	27.97	Pk	9.8	.3	38.07	60	-21.93	-	-
12	26.235	14.32	Av	9.8	.3	24.42	-	-	50	-25.58

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.16215	13.05	Ca	9.9	.1	23.05	-	-	55.35	-32.3
.57615	22.62	Ca	9.9	.2	32.72	-	-	46	-13.28
.96915	20.3	Ca	9.8	.3	30.4	-	-	46	-15.6
2.56125	19.26	Ca	9.7	.3	29.26	-	-	46	-16.74
7.11375	13.24	Ca	9.7	.3	23.24	-	-	50	-26.76
26.2283	13.18	Ca	9.8	.3	23.28	-	-	50	-26.72

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.16275	28.01	Qp	9.9	.1	38.01	65.32	-27.31	-	-
.57525	31.87	Qp	9.9	.2	41.97	56	-14.03	-	-
.96825	29.72	Qp	9.8	.3	39.82	56	-16.18	-	-
2.56275	26.2	Qp	9.7	.3	36.2	56	-19.8	-	-
7.11315	20.29	Qp	9.7	.3	30.29	60	-29.71	-	-
26.2298	21.01	Qp	9.8	.3	31.11	60	-28.89	-	-

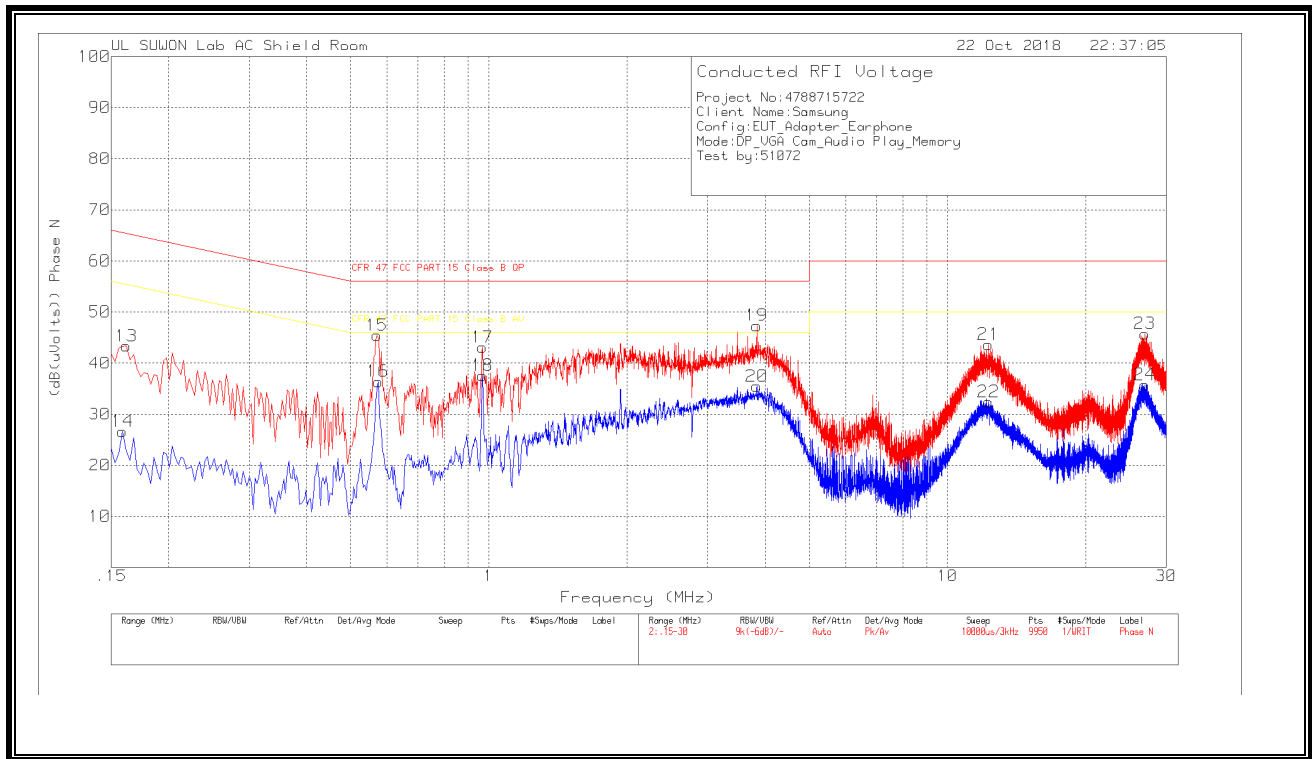
Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

Line-L2 .15 - 30MHz



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.162	33.35	Pk	9.9	.1	43.35	65.36	-22.01	-	-
14	.159	16.76	Av	9.8	.1	26.66	-	-	55.52	-28.86
15	.57	35.45	Pk	9.8	.2	45.45	56	-10.55	-	-
16	.573	26.4	Av	9.8	.2	36.4	-	-	46	-9.6
17	.969	33.08	Pk	9.7	.3	43.08	56	-12.92	-	-
18	.969	27.58	Av	9.7	.3	37.58	-	-	46	-8.42
19	3.84	37.45	Pk	9.6	.3	47.35	56	-8.65	-	-
20	3.84	25.56	Av	9.6	.3	35.46	-	-	46	-10.54
21	12.294	33.64	Pk	9.7	.3	43.64	60	-16.36	-	-
22	12.291	22.41	Av	9.7	.3	32.41	-	-	50	-17.59
23	26.937	35.65	Pk	9.8	.3	45.75	60	-14.25	-	-
24	26.937	25.66	Av	9.8	.3	35.76	-	-	50	-14.24

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.16125	13.66	Ca	9.8	.1	23.56	-	-	55.4	-31.84
.57015	25.57	Ca	9.8	.2	35.57	-	-	46	-10.43
.96825	27.94	Ca	9.7	.3	37.94	-	-	46	-8.06
3.84015	23.96	Ca	9.6	.3	33.86	-	-	46	-12.14
12.2942	21.04	Ca	9.7	.3	31.04	-	-	50	-18.96
26.9363	25.2	Ca	9.8	.3	35.3	-	-	50	-14.7

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.16215	28.47	Qp	9.9	.1	38.47	65.35	-26.88	-	-
.57075	32.97	Qp	9.8	.2	42.97	56	-13.03	-	-
.96825	31.04	Qp	9.7	.3	41.04	56	-14.96	-	-
3.83925	29.77	Qp	9.6	.3	39.67	56	-16.33	-	-
12.2933	27.92	Qp	9.7	.3	37.92	60	-22.08	-	-
26.9378	30.59	Qp	9.8	.3	40.69	60	-19.31	-	-

Pk - Peak detector

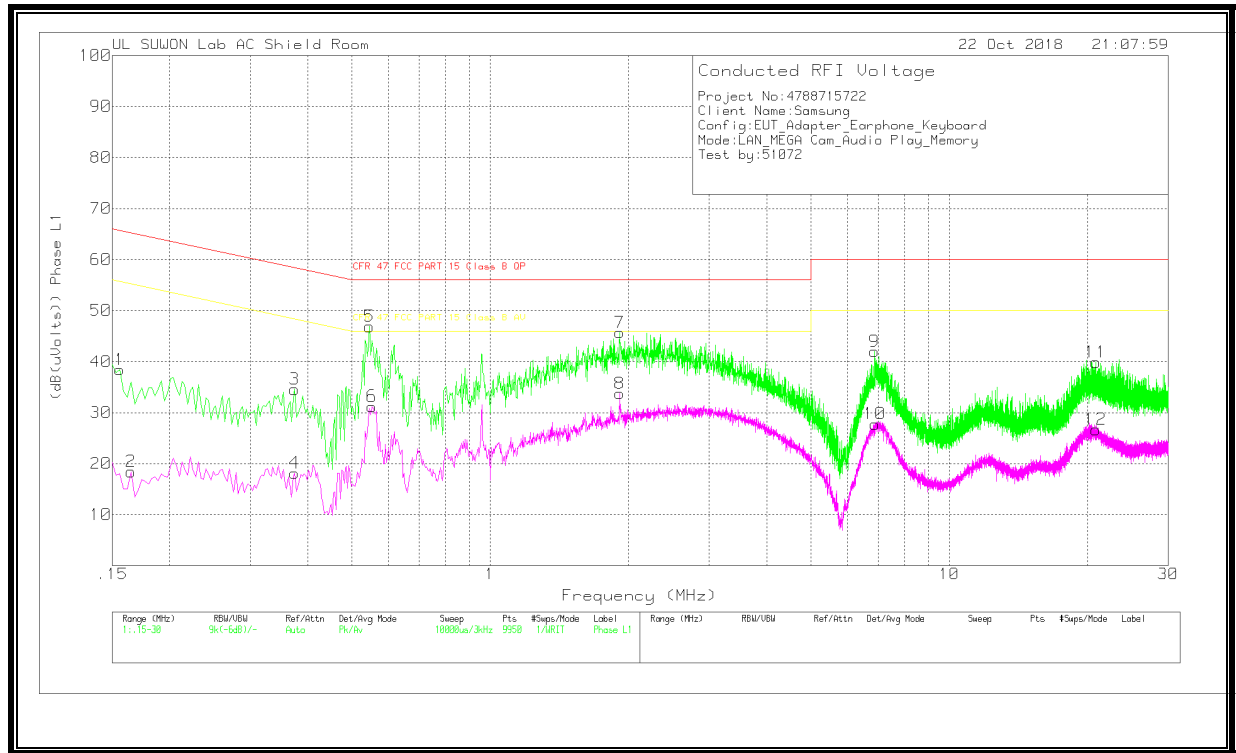
Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

WORST EMISSIONS(with Keyboard LAN MEGA Cam Audio Play Memory Mode)

Line-L1 .15 - 30MHz



LINE 1 RESULTS

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.156	28.5	Pk	9.8	.1	38.4	65.67	-27.27	-	-
2	.165	8.43	Av	9.9	.1	18.43	-	-	55.21	-36.78
3	.375	24.57	Pk	9.8	.2	34.57	58.39	-23.82	-	-
4	.375	8.16	Av	9.8	.2	18.16	-	-	48.39	-30.23
5	.546	36.77	Pk	9.9	.2	46.87	56	-9.13	-	-
6	.552	21.1	Av	9.9	.2	31.2	-	-	46	-14.8
7	1.914	35.68	Pk	9.7	.3	45.68	56	-10.32	-	-
8	1.914	23.75	Av	9.7	.3	33.75	-	-	46	-12.25
9	6.87	31.99	Pk	9.7	.3	41.99	60	-18.01	-	-
10	6.885	17.78	Av	9.7	.3	27.78	-	-	50	-22.22
11	20.883	29.66	Pk	9.8	.4	39.86	60	-20.14	-	-
12	20.841	16.48	Av	9.8	.4	26.68	-	-	50	-23.32

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15615	10.2	Ca	9.8	.1	20.1	-	-	55.67	-35.57
.37425	7.5	Ca	9.8	.2	17.5	-	-	48.41	-30.91
.54615	14.16	Ca	9.9	.2	24.26	-	-	46	-21.74
1.91475	18.88	Ca	9.7	.3	28.88	-	-	46	-17.12
6.87015	16.58	Ca	9.7	.3	26.58	-	-	50	-23.42
20.8823	15.32	Ca	9.8	.4	25.52	-	-	50	-24.48

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15615	26.97	Qp	9.8	.1	36.87	65.67	-28.8	-	-
.37575	16.84	Qp	9.8	.2	26.84	58.37	-31.53	-	-
.54615	19.53	Qp	9.9	.2	29.63	56	-26.37	-	-
1.91415	26.55	Qp	9.7	.3	36.55	56	-19.45	-	-
6.86925	23.08	Qp	9.7	.3	33.08	60	-26.92	-	-
20.8832	22.3	Qp	9.8	.4	32.5	60	-27.5	-	-

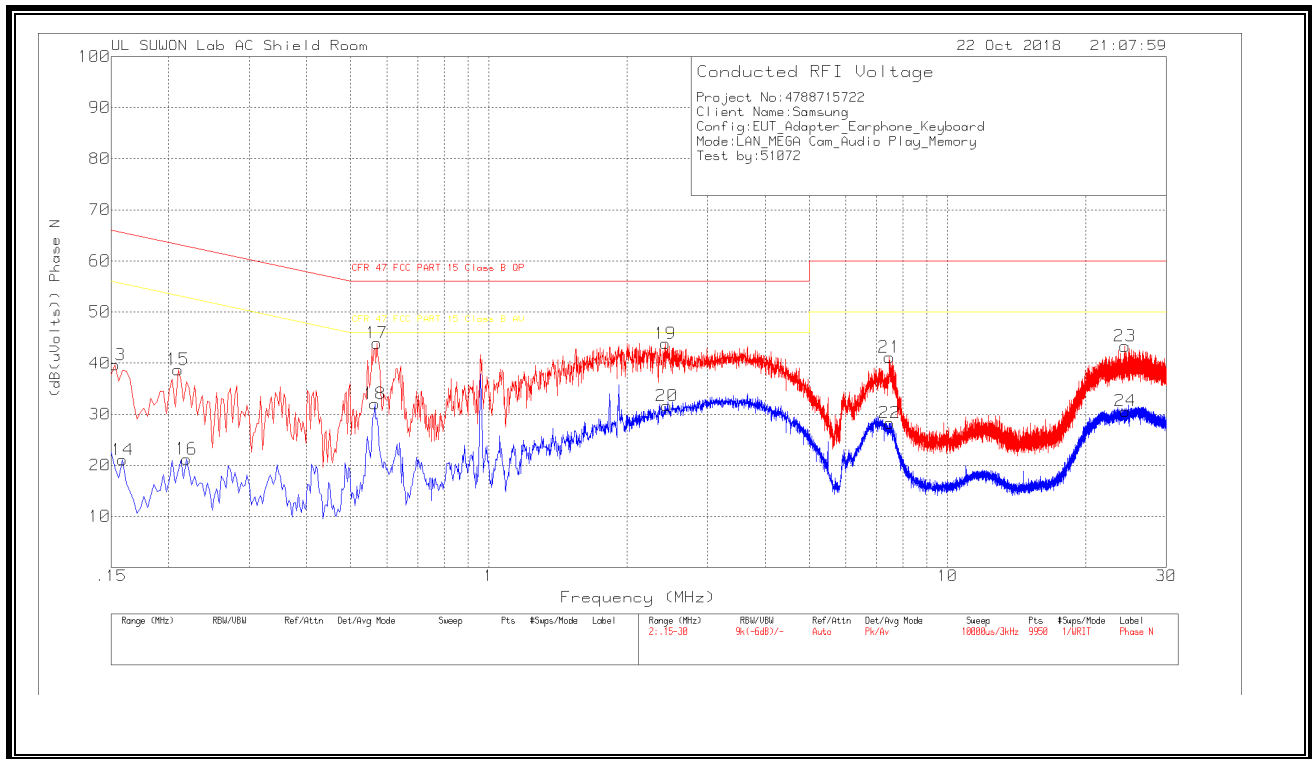
Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

Line-L2 .15 - 30MHz



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.153	29.84	Pk	9.7	.1	39.64	65.84	-26.2	-	-
14	.159	11.17	Av	9.8	.1	21.07	-	-	55.52	-34.45
15	.21	28.71	Pk	9.8	.2	38.71	63.21	-24.5	-	-
16	.219	11.32	Av	9.7	.2	21.22	-	-	52.86	-31.64
17	.57	33.91	Pk	9.8	.2	43.91	56	-12.09	-	-
18	.564	22.04	Av	9.8	.2	32.04	-	-	46	-13.96
19	2.427	33.91	Pk	9.6	.3	43.81	56	-12.19	-	-
20	2.445	21.74	Av	9.6	.3	31.64	-	-	46	-14.36
21	7.47	31.15	Pk	9.7	.3	41.15	60	-18.85	-	-
22	7.482	18.28	Av	9.7	.3	28.28	-	-	50	-21.72
23	24.384	33.11	Pk	9.8	.4	43.31	60	-16.69	-	-
24	24.414	20.41	Av	9.8	.4	30.61	-	-	50	-19.39

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15225	10.59	Ca	9.7	.1	20.39	-	-	55.88	-35.49
.21075	9.66	Ca	9.8	.2	19.66	-	-	53.18	-33.52
.56925	22.96	Ca	9.8	.2	32.96	-	-	46	-13.04
2.42715	18.64	Ca	9.6	.3	28.54	-	-	46	-17.46
7.46925	15.42	Ca	9.7	.3	25.42	-	-	50	-24.58
24.3848	18.95	Ca	9.8	.4	29.15	-	-	50	-20.85

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15315	27.24	Qp	9.7	.1	37.04	65.83	-28.79	-	-
.20925	23.84	Qp	9.8	.2	33.84	63.24	-29.4	-	-
.57075	30.22	Qp	9.8	.2	40.22	56	-15.78	-	-
2.42715	26.81	Qp	9.6	.3	36.71	56	-19.29	-	-
7.46925	23.11	Qp	9.7	.3	33.11	60	-26.89	-	-
24.3833	28.35	Qp	9.8	.4	38.55	60	-21.45	-	-

Pk - Peak detector

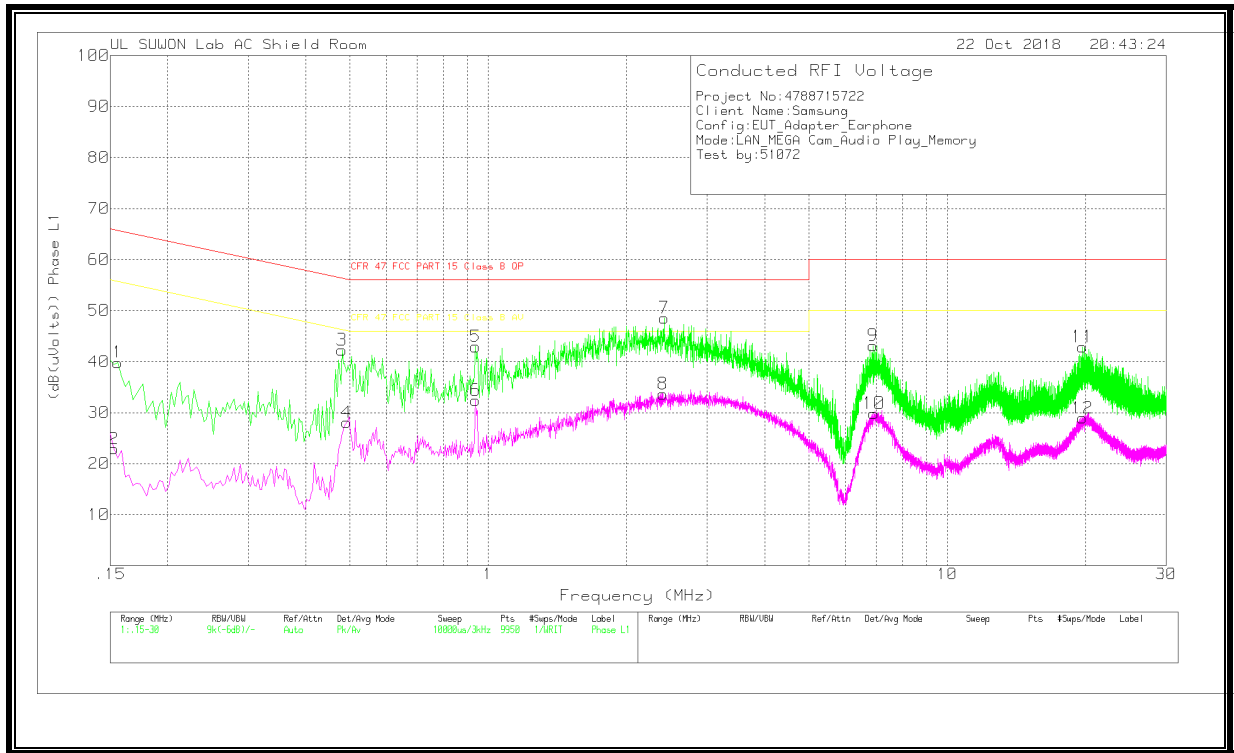
Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

WORST EMISSIONS(without Keyboard LAN MEGA Cam Audio Play Memory Mode)

Line-L1 .15 - 30MHz



LINE 1 RESULTS

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.156	29.94	Pk	9.8	.1	39.84	65.67	-25.83	-	-
2	.153	12.99	Av	9.8	.1	22.89	-	-	55.84	-32.95
3	.48	32.17	Pk	9.9	.2	42.27	56.34	-14.07	-	-
4	.492	18	Av	9.9	.2	28.1	-	-	46.13	-18.03
5	.939	32.83	Pk	9.8	.3	42.93	56	-13.07	-	-
6	.939	22.34	Av	9.8	.3	32.44	-	-	46	-13.56
7	2.421	38.54	Pk	9.7	.3	48.54	56	-7.46	-	-
8	2.403	23.66	Av	9.7	.3	33.66	-	-	46	-12.34
9	6.891	33.15	Pk	9.7	.3	43.15	60	-16.85	-	-
10	6.924	19.85	Av	9.7	.3	29.85	-	-	50	-20.15
11	19.725	32.71	Pk	9.8	.4	42.91	60	-17.09	-	-
12	19.722	18.75	Av	9.8	.4	28.95	-	-	50	-21.05

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15525	11.18	Ca	9.8	.1	21.08	-	-	55.71	-34.63
.48015	11.58	Ca	9.9	.2	21.68	-	-	46.34	-24.66
.93915	15.53	Ca	9.8	.3	25.63	-	-	46	-20.37
2.42025	21.77	Ca	9.7	.3	31.77	-	-	46	-14.23
6.89175	18.1	Ca	9.7	.3	28.1	-	-	50	-21.9
19.7252	17.22	Ca	9.8	.4	27.42	-	-	50	-22.58

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15525	25.28	Qp	9.8	.1	35.18	65.71	-30.53	-	-
.48075	23.46	Qp	9.9	.2	33.56	56.33	-22.77	-	-
.93975	24.37	Qp	9.8	.3	34.47	56	-21.53	-	-
2.42115	29.72	Qp	9.7	.3	39.72	56	-16.28	-	-
6.89115	24.55	Qp	9.7	.3	34.55	60	-25.45	-	-
19.7258	23.18	Qp	9.8	.4	33.38	60	-26.62	-	-

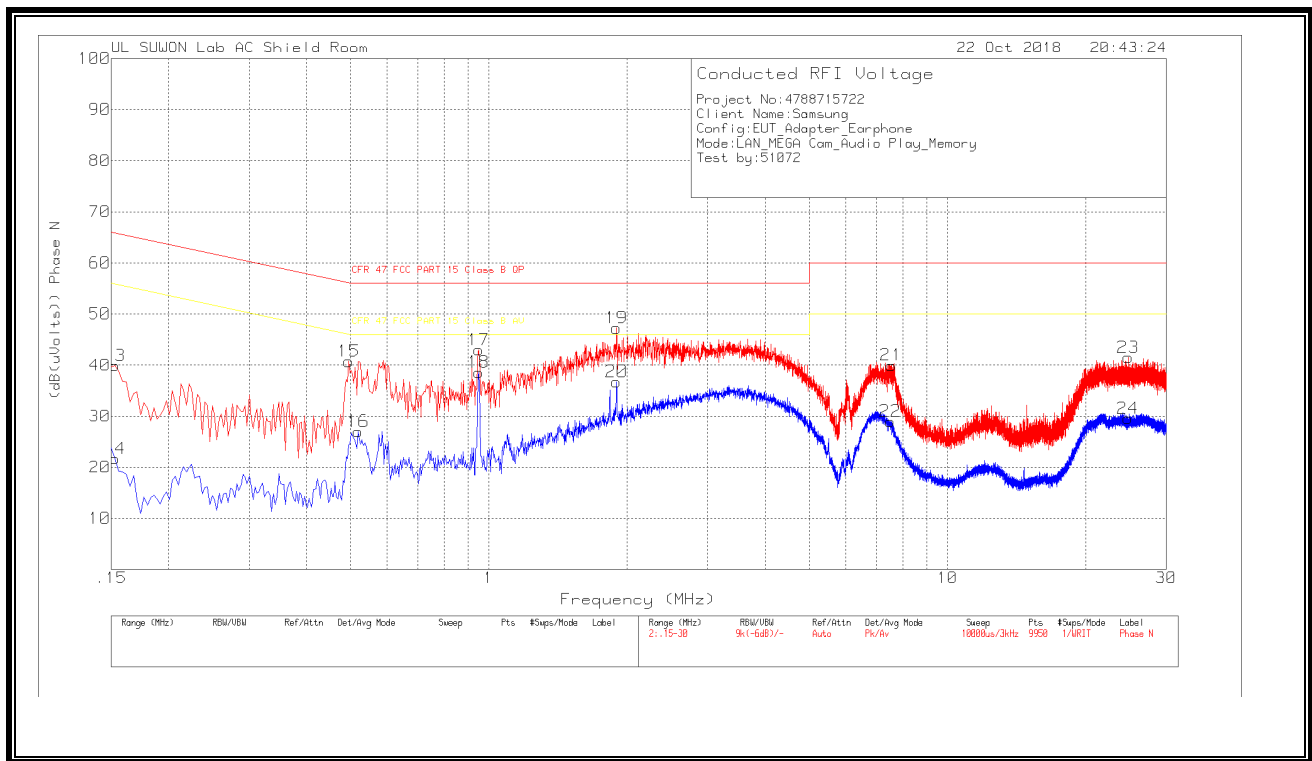
Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

Line-L2 .15 - 30MHz



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.153	30.1	Pk	9.7	.1	39.9	65.84	-25.94	-	-
14	.153	11.88	Av	9.7	.1	21.68	-	-	55.84	-34.16
15	.495	30.72	Pk	9.8	.2	40.72	56.08	-15.36	-	-
16	.519	17	Av	9.8	.2	27	-	-	46	-19
17	.951	32.97	Pk	9.7	.3	42.97	56	-13.03	-	-
18	.951	28.59	Av	9.7	.3	38.59	-	-	46	-7.41
19	1.899	37.34	Pk	9.6	.3	47.24	56	-8.76	-	-
20	1.899	26.83	Av	9.6	.3	36.73	-	-	46	-9.27
21	7.542	29.97	Pk	9.7	.3	39.97	60	-20.03	-	-
22	7.503	18.97	Av	9.7	.3	28.97	-	-	50	-21.03
23	24.783	31.29	Pk	9.8	.4	41.49	60	-18.51	-	-
24	24.756	19.35	Av	9.8	.4	29.55	-	-	50	-20.45

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15225	13.2	Ca	9.7	.1	23	-	-	55.88	-32.88
.49575	12.47	Ca	9.8	.2	22.47	-	-	46.07	-23.6
.95175	25.46	Ca	9.7	.3	35.46	-	-	46	-10.54
1.89975	19.79	Ca	9.6	.3	29.69	-	-	46	-16.31
7.54125	18.45	Ca	9.7	.3	28.45	-	-	50	-21.55
24.7838	19.03	Ca	9.8	.4	29.23	-	-	50	-20.77

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15225	25.76	Qp	9.7	.1	35.56	65.88	-30.32	-	-
.49425	19.26	Qp	9.8	.2	29.26	56.1	-26.84	-	-
.95175	24.19	Qp	9.7	.3	34.19	56	-21.81	-	-
1.89915	27.89	Qp	9.6	.3	37.79	56	-18.21	-	-
7.54275	24.79	Qp	9.7	.3	34.79	60	-25.21	-	-
24.7838	25.34	Qp	9.8	.4	35.54	60	-24.46	-	-

Pk - Peak detector

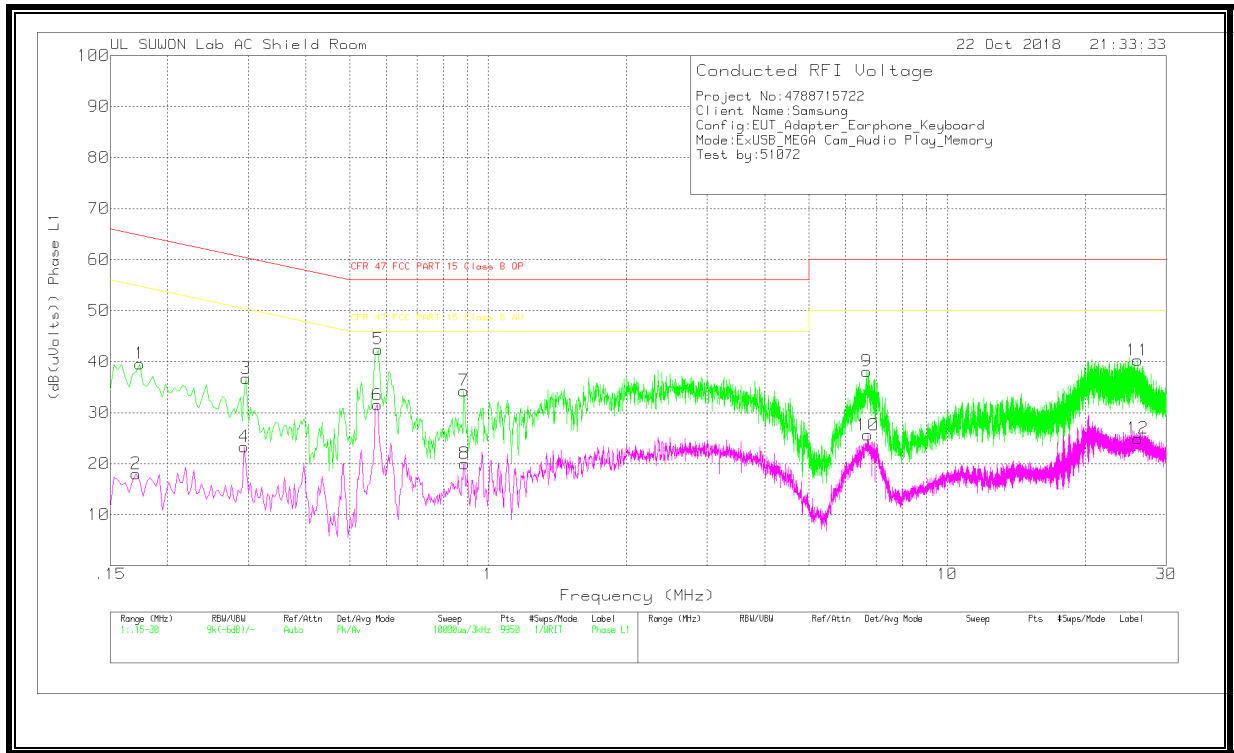
Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

WORST EMISSIONS(with Keyboard ExUSB MEGA Cam Audio Play Memory Mode)

Line-L1 .15 - 30MHz



LINE 1 RESULTS

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.174	29.4	Pk	10	.2	39.6	64.77	-25.17	-	-
2	.171	7.83	Av	10	.2	18.03	-	-	54.91	-36.88
3	.297	26.85	Pk	9.7	.2	36.75	60.33	-23.58	-	-
4	.294	13.41	Av	9.7	.2	23.31	-	-	50.41	-27.1
5	.576	32.32	Pk	9.9	.2	42.42	56	-13.58	-	-
6	.573	21.44	Av	9.9	.2	31.54	-	-	46	-14.46
7	.885	24.2	Pk	9.8	.3	34.3	56	-21.7	-	-
8	.888	9.91	Av	9.8	.3	20.01	-	-	46	-25.99
9	6.684	28.12	Pk	9.7	.3	38.12	60	-21.88	-	-
10	6.711	15.62	Av	9.7	.3	25.62	-	-	50	-24.38
11	25.986	30.17	Pk	9.8	.3	40.27	60	-19.73	-	-
12	26.025	14.85	Av	9.8	.3	24.95	-	-	50	-25.05

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.17325	10.63	Ca	10	.2	20.83	-	-	54.8	-33.97
.29715	9.75	Ca	9.7	.2	19.65	-	-	50.32	-30.67
.57675	18.52	Ca	9.9	.2	28.62	-	-	46	-17.38
.88425	9.9	Ca	9.8	.3	20	-	-	46	-26
6.68325	13.87	Ca	9.7	.3	23.87	-	-	50	-26.13
25.9862	13.88	Ca	9.8	.3	23.98	-	-	50	-26.02

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.17475	27.53	Qp	10	.2	37.73	64.73	-27	-	-
.29625	22.53	Qp	9.7	.2	32.43	60.35	-27.92	-	-
.57525	29.11	Qp	9.9	.2	39.21	56	-16.79	-	-
.88575	20.02	Qp	9.8	.3	30.12	56	-25.88	-	-
6.68415	22.03	Qp	9.7	.3	32.03	60	-27.97	-	-
25.9853	23.33	Qp	9.8	.3	33.43	60	-26.57	-	-

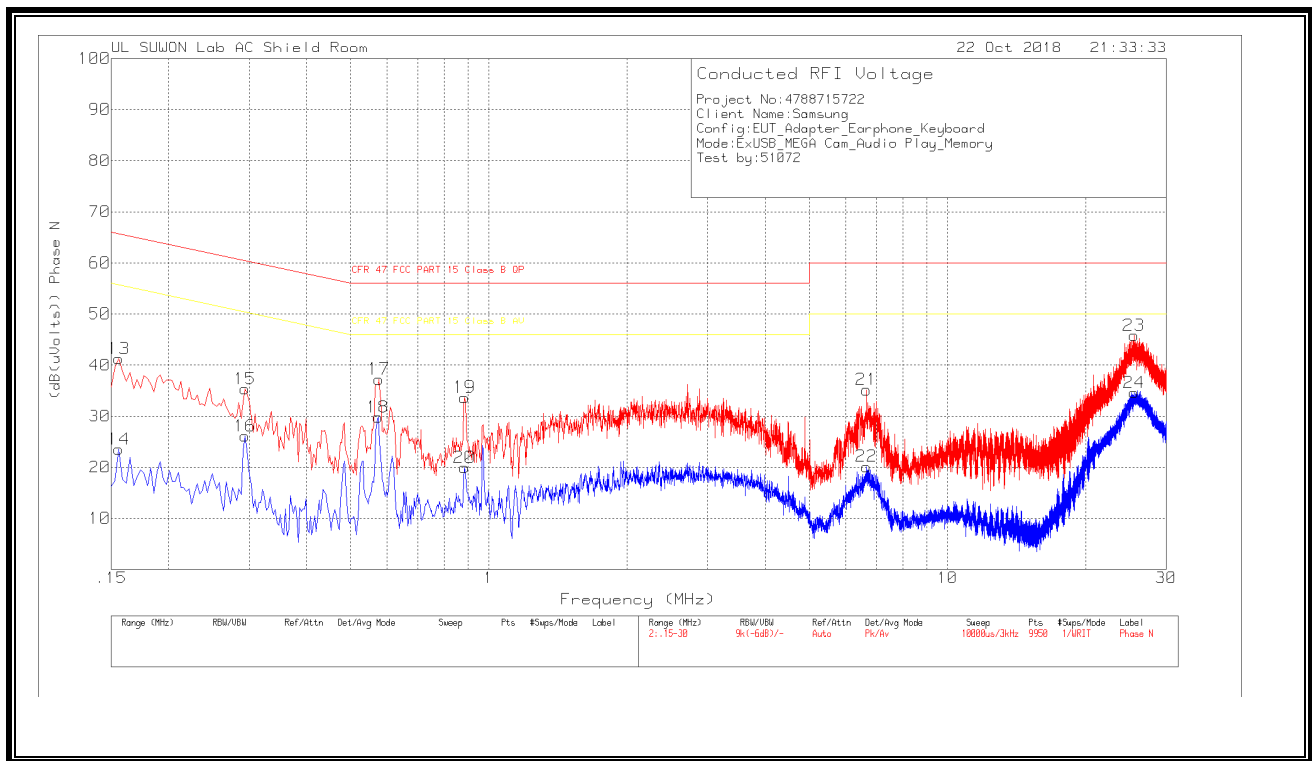
Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

Line-L2 .15 - 30MHz



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.156	31.33	Pk	9.8	.1	41.23	65.67	-24.44	-	-
14	.156	13.63	Av	9.8	.1	23.53	-	-	55.67	-32.14
15	.294	25.45	Pk	9.7	.2	35.35	60.41	-25.06	-	-
16	.294	16.21	Av	9.7	.2	26.11	-	-	50.41	-24.3
17	.576	27.24	Pk	9.8	.2	37.24	56	-18.76	-	-
18	.573	19.8	Av	9.8	.2	29.8	-	-	46	-16.2
19	.885	23.66	Pk	9.7	.3	33.66	56	-22.34	-	-
20	.885	9.94	Av	9.7	.3	19.94	-	-	46	-26.06
21	6.66	25.17	Pk	9.7	.3	35.17	60	-24.83	-	-
22	6.657	10.14	Av	9.7	.3	20.14	-	-	50	-29.86
23	25.512	35.72	Pk	9.8	.3	45.82	60	-14.18	-	-
24	25.524	24.52	Av	9.8	.3	34.62	-	-	50	-15.38

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15675	9.72	Ca	9.8	.1	19.62	-	-	55.63	-36.01
.29475	14.92	Ca	9.7	.2	24.82	-	-	50.39	-25.57
.57615	17.49	Ca	9.8	.2	27.49	-	-	46	-18.51
.88575	12.6	Ca	9.7	.3	22.6	-	-	46	-23.4
6.65925	8.55	Ca	9.7	.3	18.55	-	-	50	-31.45
25.5113	23.44	Ca	9.8	.3	33.54	-	-	50	-16.46

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15615	27.06	Qp	9.8	.1	36.96	65.67	-28.71	-	-
.29475	24.87	Qp	9.7	.2	34.77	60.39	-25.62	-	-
.57525	24.15	Qp	9.8	.2	34.15	56	-21.85	-	-
.88515	21.94	Qp	9.7	.3	31.94	56	-24.06	-	-
6.66075	17.64	Qp	9.7	.3	27.64	60	-32.36	-	-
25.5122	30.1	Qp	9.8	.3	40.2	60	-19.8	-	-

Pk - Peak detector

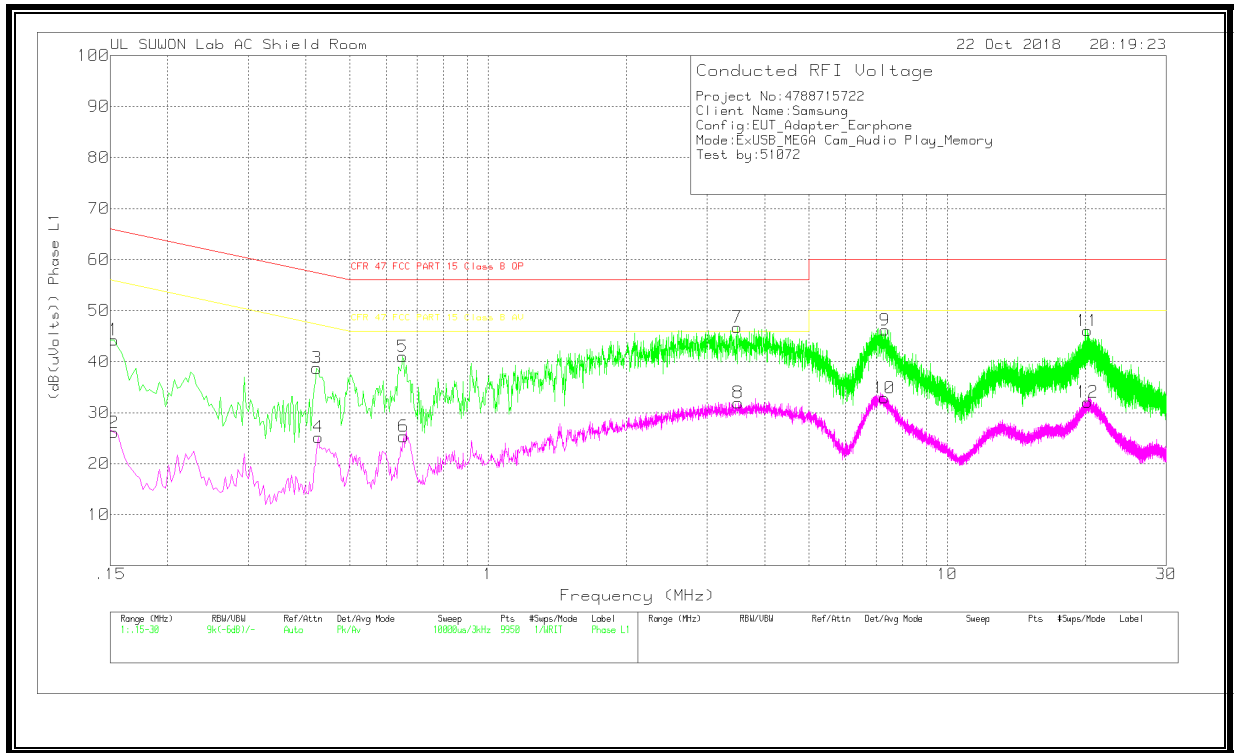
Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

WORST EMISSIONS(without Keyboard ExUSB MEGA Cam Audio Play Memory Mode)

Line-L1 .15 - 30MHz



LINE 1 RESULTS

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.153	34.35	Pk	9.8	.1	44.25	65.84	-21.59	-	-
2	.153	16.22	Av	9.8	.1	26.12	-	-	55.84	-29.72
3	.423	28.64	Pk	9.9	.2	38.74	57.39	-18.65	-	-
4	.426	15.09	Av	9.9	.2	25.19	-	-	47.33	-22.14
5	.651	31	Pk	9.8	.2	41	56	-15	-	-
6	.654	15.34	Av	9.8	.2	25.34	-	-	46	-20.66
7	3.486	36.7	Pk	9.7	.3	46.7	56	-9.3	-	-
8	3.504	21.94	Av	9.7	.3	31.94	-	-	46	-14.06
9	7.326	36.19	Pk	9.7	.3	46.19	60	-13.81	-	-
10	7.299	22.89	Av	9.7	.3	32.89	-	-	50	-17.11
11	20.205	35.86	Pk	9.8	.4	46.06	60	-13.94	-	-
12	20.229	21.84	Av	9.8	.4	32.04	-	-	50	-17.96

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15315	13.44	Ca	9.8	.1	23.34	-	-	55.83	-32.49
.42375	7.7	Ca	9.9	.2	17.8	-	-	47.37	-29.57
.65115	10.65	Ca	9.8	.2	20.65	-	-	46	-25.35
3.48615	19.96	Ca	9.7	.3	29.96	-	-	46	-16.04
7.32675	21.11	Ca	9.7	.3	31.11	-	-	50	-18.89
20.2058	20.95	Ca	9.8	.4	31.15	-	-	50	-18.85

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15315	26.4	Qp	9.8	.1	36.3	65.83	-29.53	-	-
.42315	18.91	Qp	9.9	.2	29.01	57.39	-28.38	-	-
.65175	19.26	Qp	9.8	.2	29.26	56	-26.74	-	-
3.48525	27.99	Qp	9.7	.3	37.99	56	-18.01	-	-
7.32615	27.76	Qp	9.7	.3	37.76	60	-22.24	-	-
20.2058	27.88	Qp	9.8	.4	38.08	60	-21.92	-	-

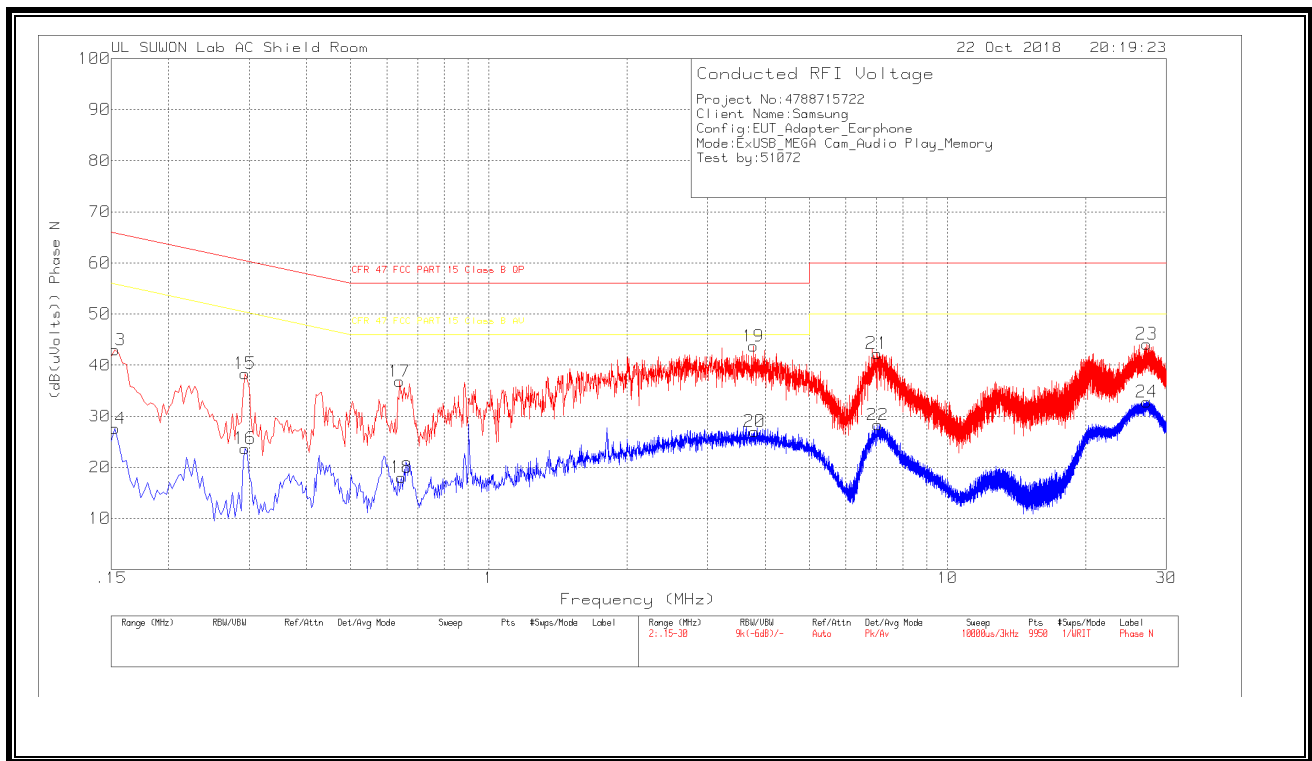
Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection

Line-L2 .15 - 30MHz



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.153	33.19	Pk	9.7	.1	42.99	65.84	-22.85	-	-
14	.153	17.77	Av	9.7	.1	27.57	-	-	55.84	-28.27
15	.294	28.45	Pk	9.7	.2	38.35	60.41	-22.06	-	-
16	.294	13.8	Av	9.7	.2	23.7	-	-	50.41	-26.71
17	.639	26.8	Pk	9.8	.2	36.8	56	-19.2	-	-
18	.645	8.03	Av	9.8	.2	18.03	-	-	46	-27.97
19	3.771	33.8	Pk	9.6	.3	43.7	56	-12.3	-	-
20	3.798	17.1	Av	9.6	.3	27	-	-	46	-19
21	7.017	32.29	Pk	9.7	.3	42.29	60	-17.71	-	-
22	7.047	18.3	Av	9.7	.3	28.3	-	-	50	-21.7
23	27.177	34.02	Pk	9.8	.3	44.12	60	-15.88	-	-
24	27.204	22.68	Av	9.8	.3	32.78	-	-	50	-17.22

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15225	12.4	Ca	9.7	.1	22.2	-	-	55.88	-33.68
.29475	16.91	Ca	9.7	.2	26.81	-	-	50.39	-23.58
.63825	8.83	Ca	9.8	.2	18.83	-	-	46	-27.17
3.77115	14.44	Ca	9.6	.3	24.34	-	-	46	-21.66
7.01715	15.92	Ca	9.7	.3	25.92	-	-	50	-24.08
27.1778	23.37	Ca	9.8	.3	33.47	-	-	50	-16.53

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_1018 36_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15315	26.82	Qp	9.7	.1	36.62	65.83	-29.21	-	-
.29475	27.98	Qp	9.7	.2	37.88	60.39	-22.51	-	-
.63915	14.85	Qp	9.8	.2	24.85	56	-31.15	-	-
3.77115	22.9	Qp	9.6	.3	32.8	56	-23.2	-	-
7.01625	24.65	Qp	9.7	.3	34.65	60	-25.35	-	-
27.1763	29.86	Qp	9.8	.3	39.96	60	-20.04	-	-

Pk - Peak detector

Qp - Quasi-Peak detector

Av - Average detection

Ca - CISPR average detection