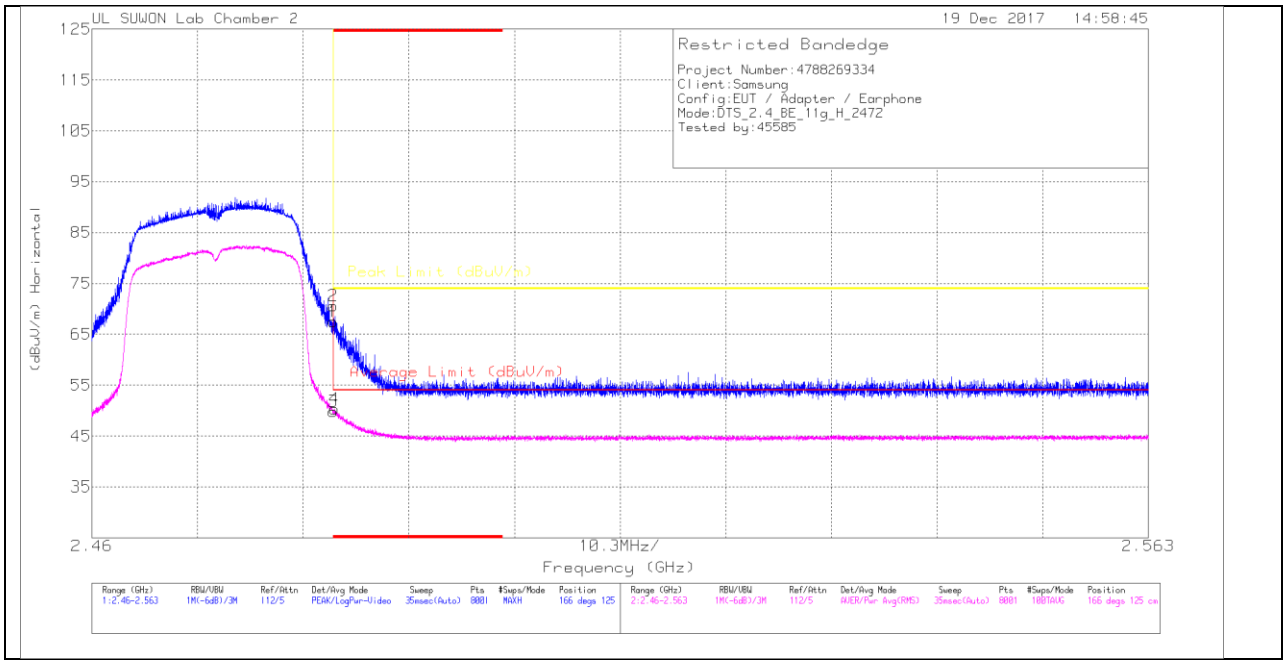
AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

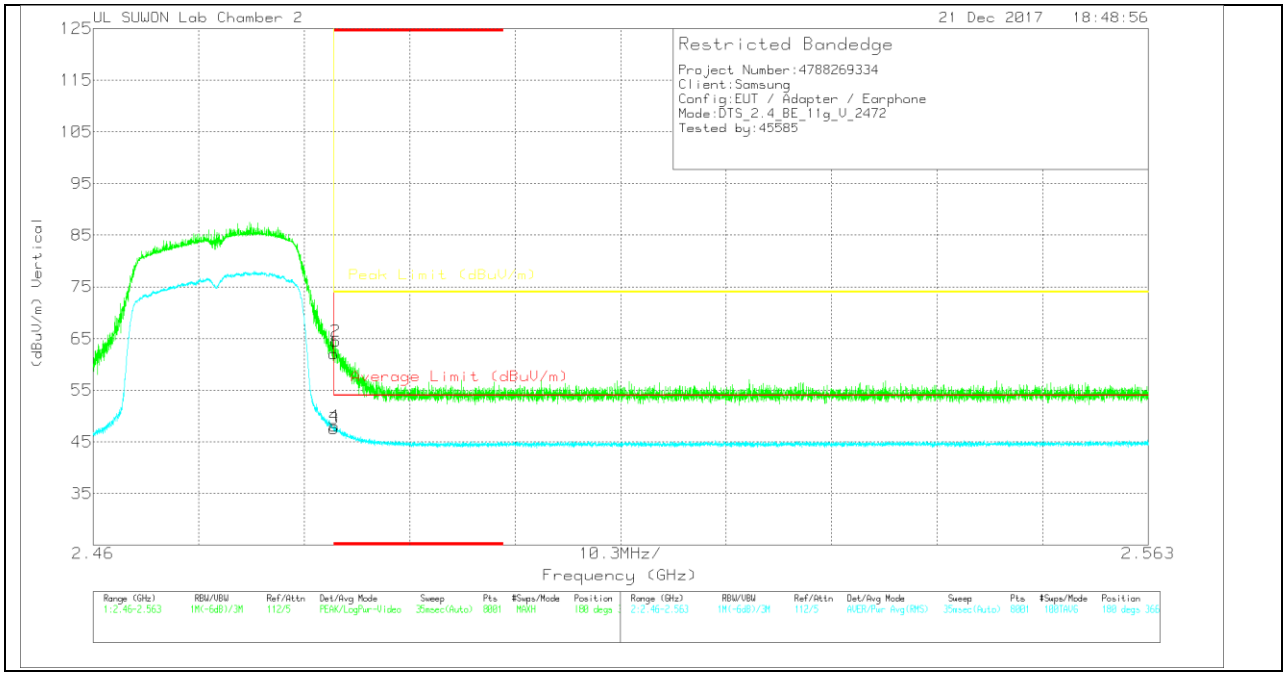
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	53.9	Pk	31.6	-18	0	67.5	-	-	74	-6.5	166	125	H
2	* 2.484	57.02	Pk	31.6	-18	0	70.62	-	-	74	-3.38	166	125	H
3	* 2.484	35.89	RMS	31.6	-18	.3	49.79	54	-4.21	-	-	166	125	H
4	* 2.484	36.39	RMS	31.6	-18	.3	50.29	54	-3.71	-	-	166	125	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

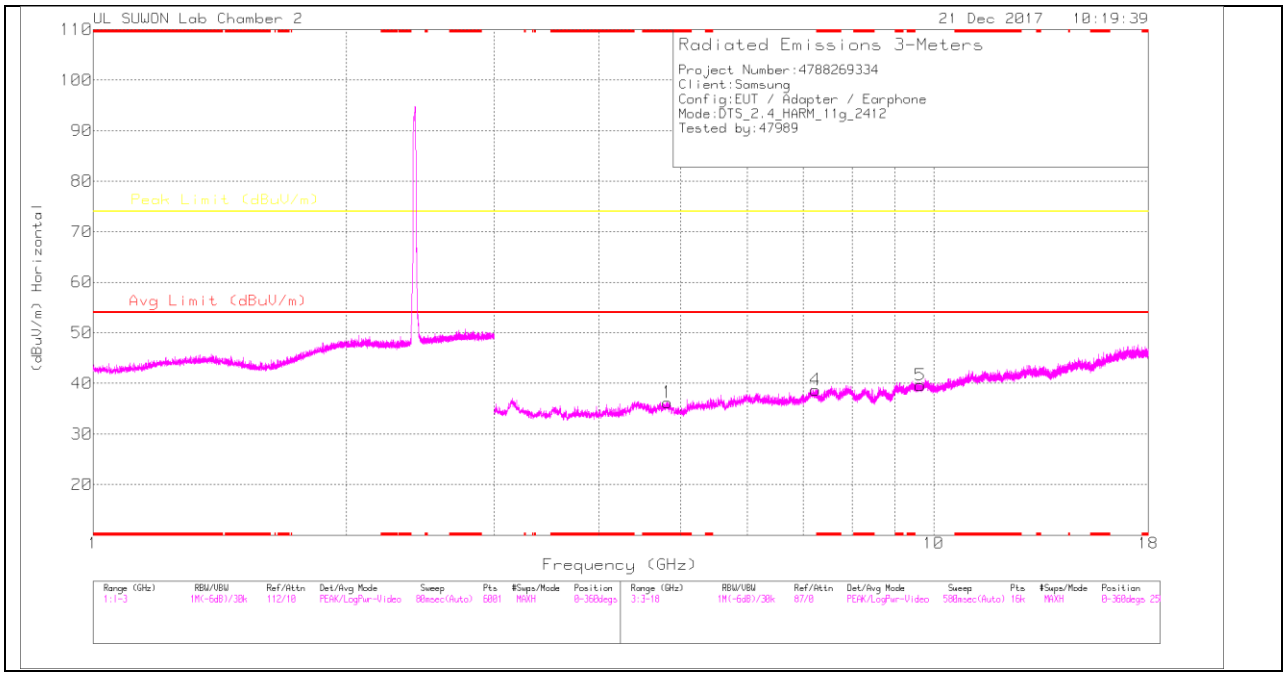
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.47	Pk	31.6	-18	0	62.07	-	-	74	-11.93	180	366	V
2	* 2.484	50.87	Pk	31.6	-18	0	64.47	-	-	74	-9.53	180	366	V
3	* 2.484	33.63	RMS	31.6	-18	.3	47.53	54	-6.47	-	-	180	366	V
4	* 2.484	34.15	RMS	31.6	-18	.3	48.05	54	-5.95	-	-	180	366	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

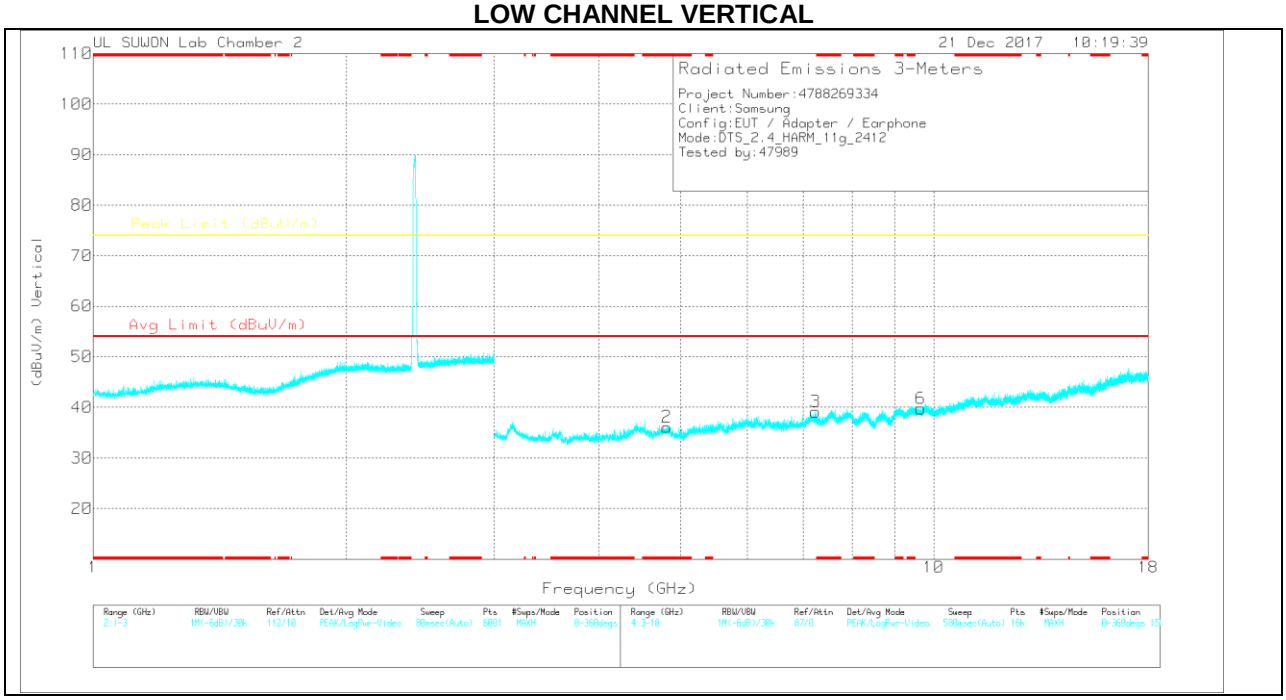
UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.826	26.71	PK	33.8	-24.3	0	36.21	-	-	74	-37.79	0-360	150	H
4	7.234	24.71	PK	35.9	-21.9	0	38.71	-	-	74	-35.29	0-360	250	H
5	9.642	21.13	PK	36.8	-18.3	0	39.63	-	-	74	-34.37	0-360	150	H
2	* 4.817	26.61	PK	33.8	-24.3	0	36.11	-	-	74	-37.89	0-360	250	V
3	7.233	25.13	PK	35.9	-21.9	0	39.13	-	-	74	-34.87	0-360	250	V
6	9.651	21.25	PK	36.8	-18.3	0	39.75	-	-	74	-34.25	0-360	250	V

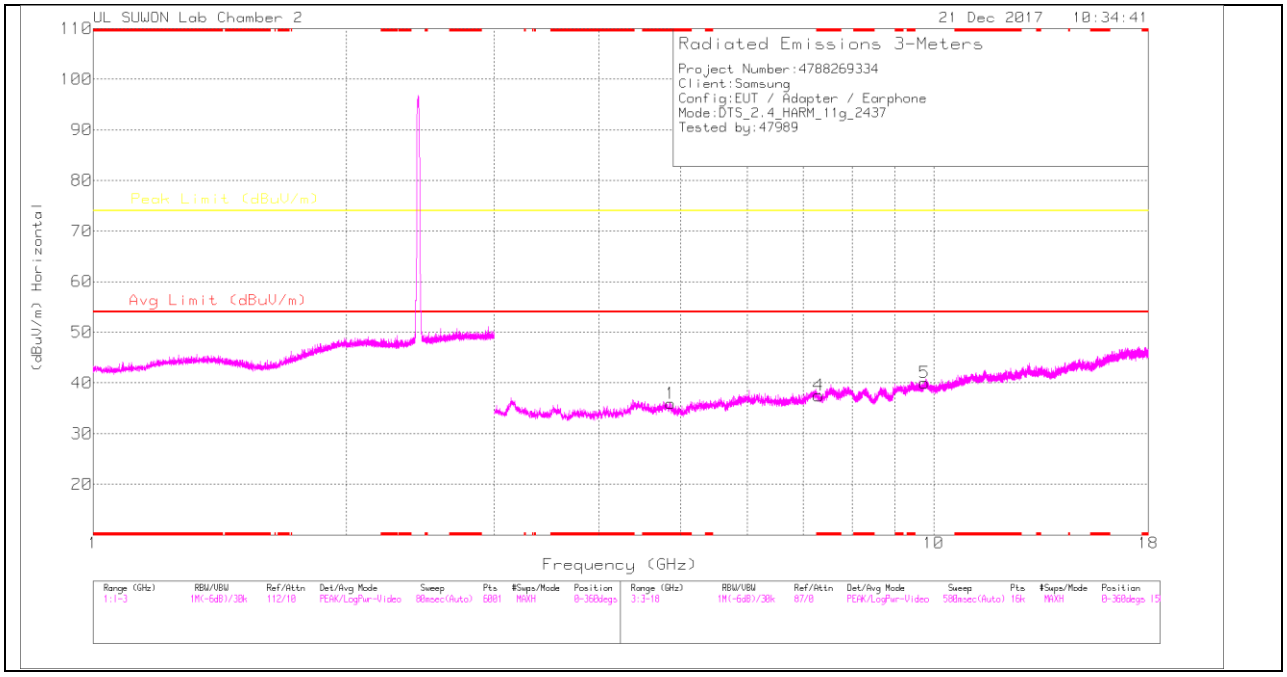
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK – Peak detector

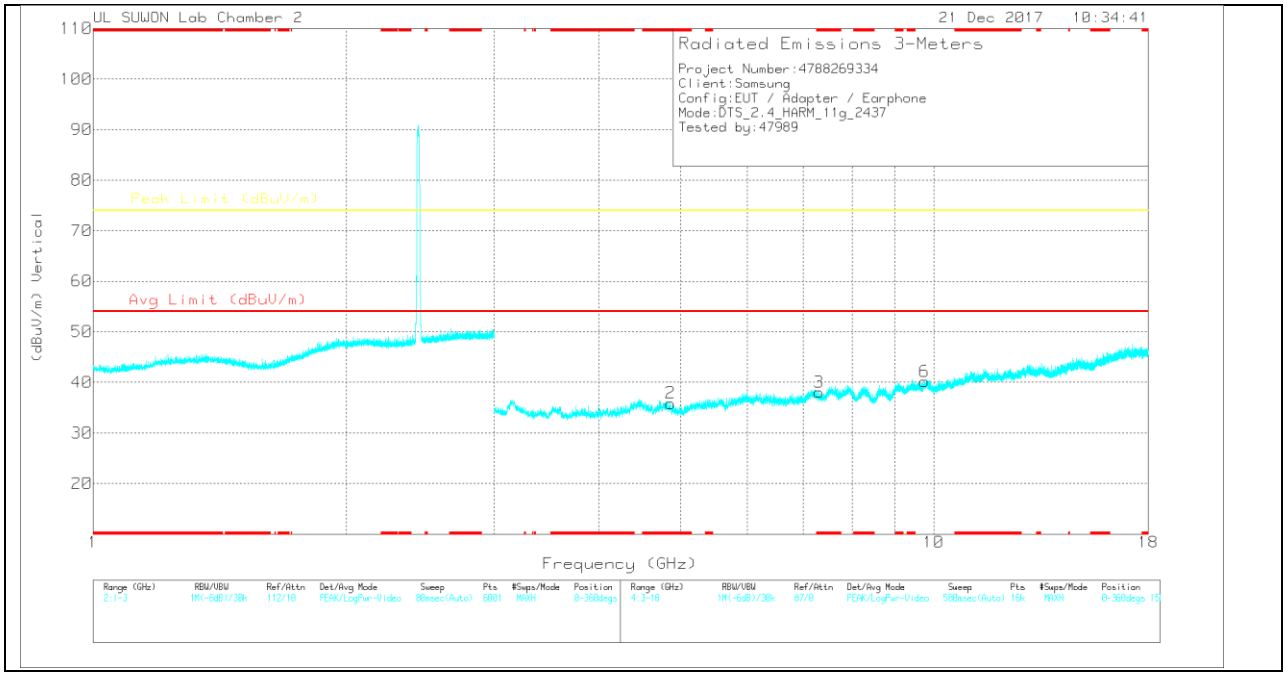
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

MID CHANNEL DATA

Trace Markers

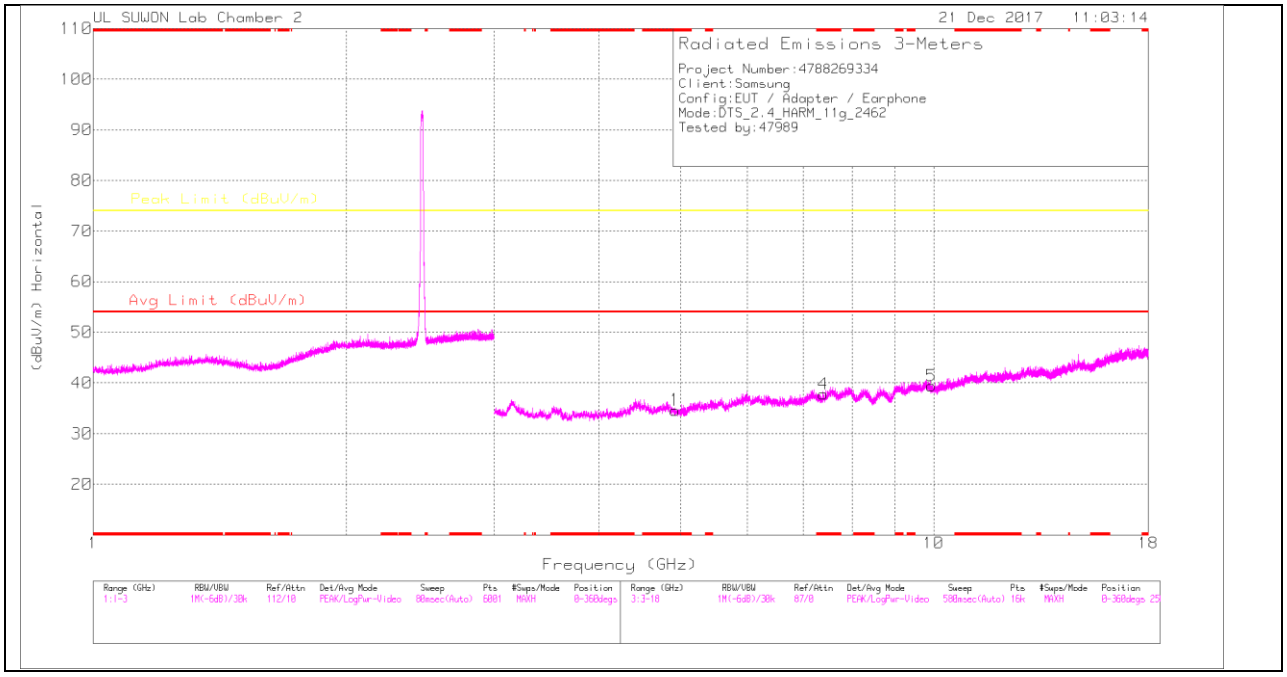
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.867	26.65	PK	33.8	-24.5	0	35.95	-	-	74	-38.05	0-360	250	H
4	* 7.297	23.61	PK	35.9	-22	0	37.51	-	-	74	-36.49	0-360	250	H
5	9.751	21.19	PK	36.9	-18.1	0	39.99	-	-	74	-34.01	0-360	250	H
2	* 4.862	26.48	PK	33.8	-24.4	0	35.88	-	-	74	-38.12	0-360	250	V
3	* 7.3	24.13	PK	35.9	-22	0	38.03	-	-	74	-35.97	0-360	150	V
6	9.748	21.37	PK	36.9	-18.1	0	40.17	-	-	74	-33.83	0-360	150	V

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

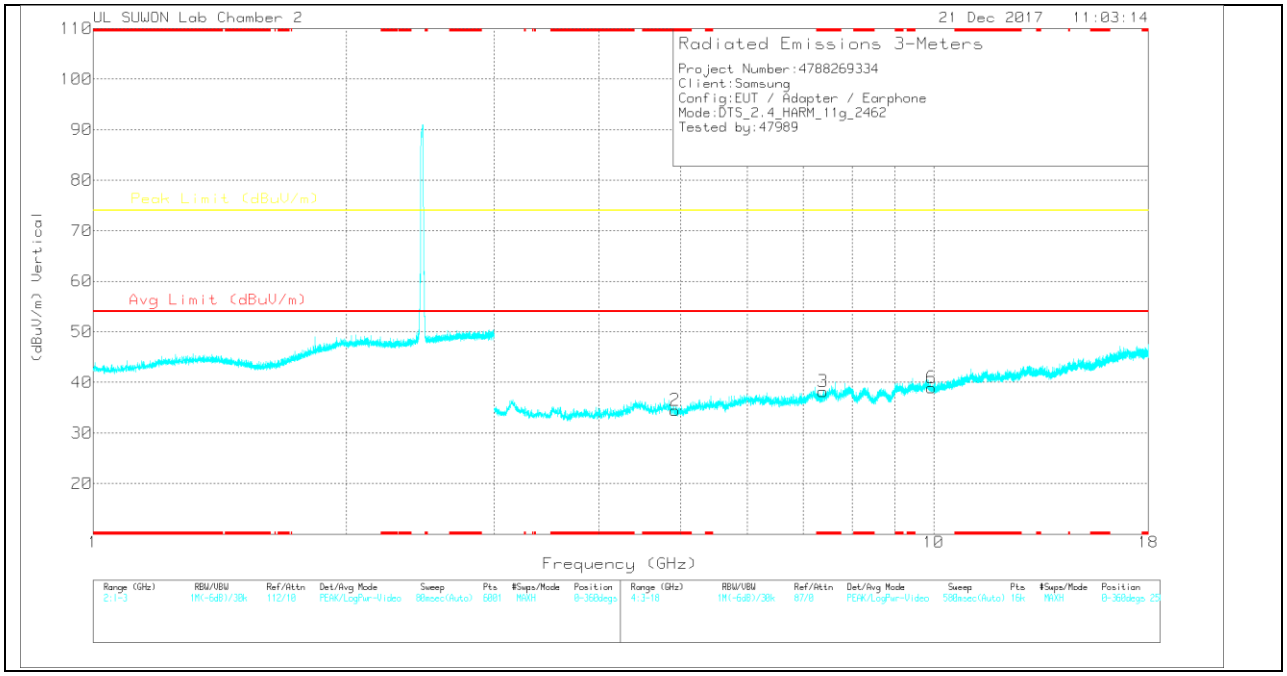
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.921	25.52	PK	33.8	-24.7	0	34.62	-	-	74	-39.38	0-360	250	H
4	* 7.393	23.19	PK	35.9	-21.3	0	37.79	-	-	74	-36.21	0-360	150	H
5	9.939	20.21	PK	37.1	-17.9	0	39.41	-	-	74	-34.59	0-360	250	H
2	* 4.925	25.38	PK	33.8	-24.7	0	34.48	-	-	74	-39.52	0-360	250	V
3	* 7.385	23.72	PK	35.9	-21.4	0	38.22	-	-	74	-35.78	0-360	250	V
6	9.938	19.74	PK	37.1	-17.9	0	38.94	-	-	74	-35.06	0-360	250	V

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

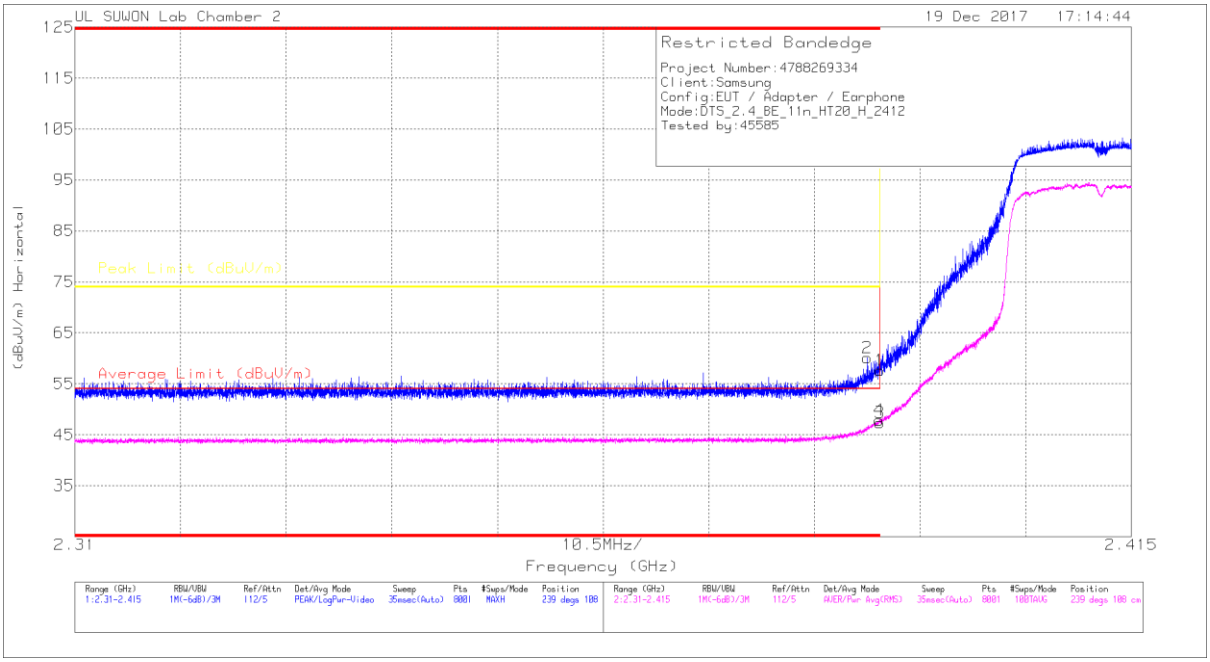
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

10.2.3.TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

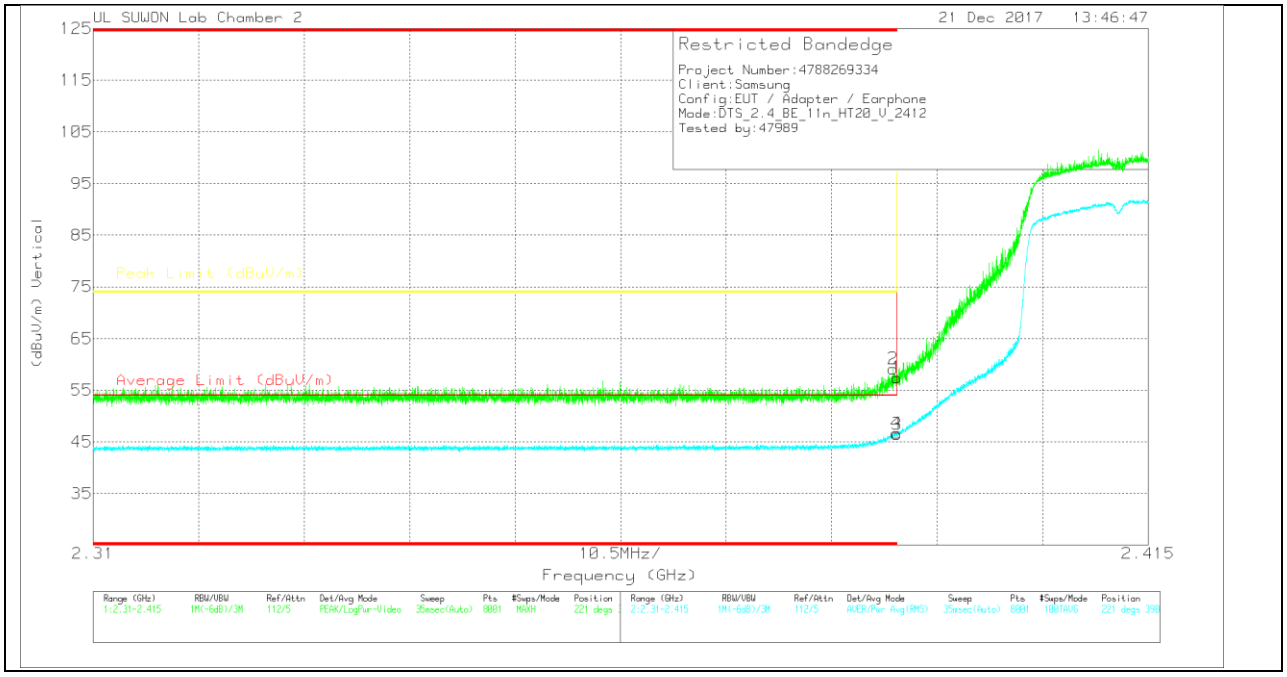
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.47	Pk	31.3	-18.2	0	57.57	-	-	74	-16.43	239	108	H
2	* 2.389	46.95	Pk	31.3	-18.2	0	60.05	-	-	74	-13.95	239	108	H
3	* 2.39	33.99	RMS	31.3	-18.2	.32	47.41	54	-6.59	-	-	239	108	H
4	* 2.39	34.44	RMS	31.3	-18.2	.32	47.86	54	-6.14	-	-	239	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

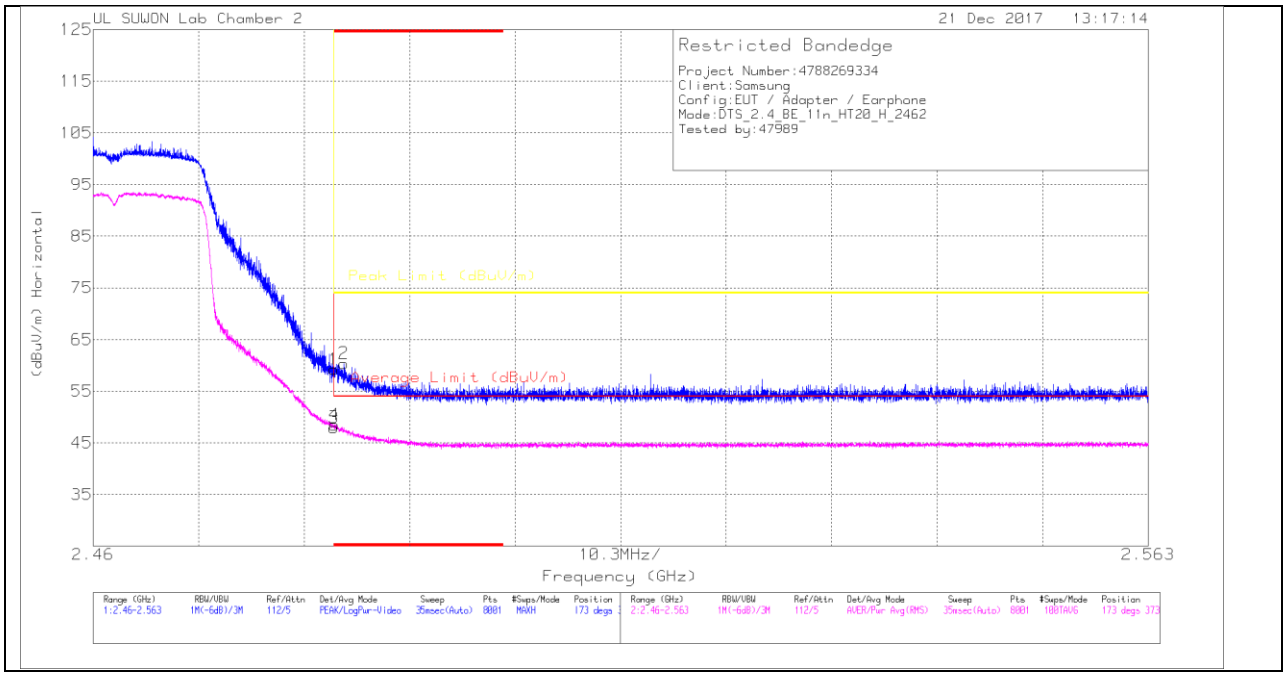
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.36	Pk	31.3	-18.2	0	57.46	-	-	74	-16.54	221	390	V
2	* 2.39	46.05	Pk	31.3	-18.2	0	59.15	-	-	74	-14.85	221	390	V
3	* 2.39	33.06	RMS	31.3	-18.2	.32	46.48	54	-7.52	-	-	221	390	V
4	* 2.39	33.29	RMS	31.3	-18.2	.32	46.71	54	-7.29	-	-	221	390	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

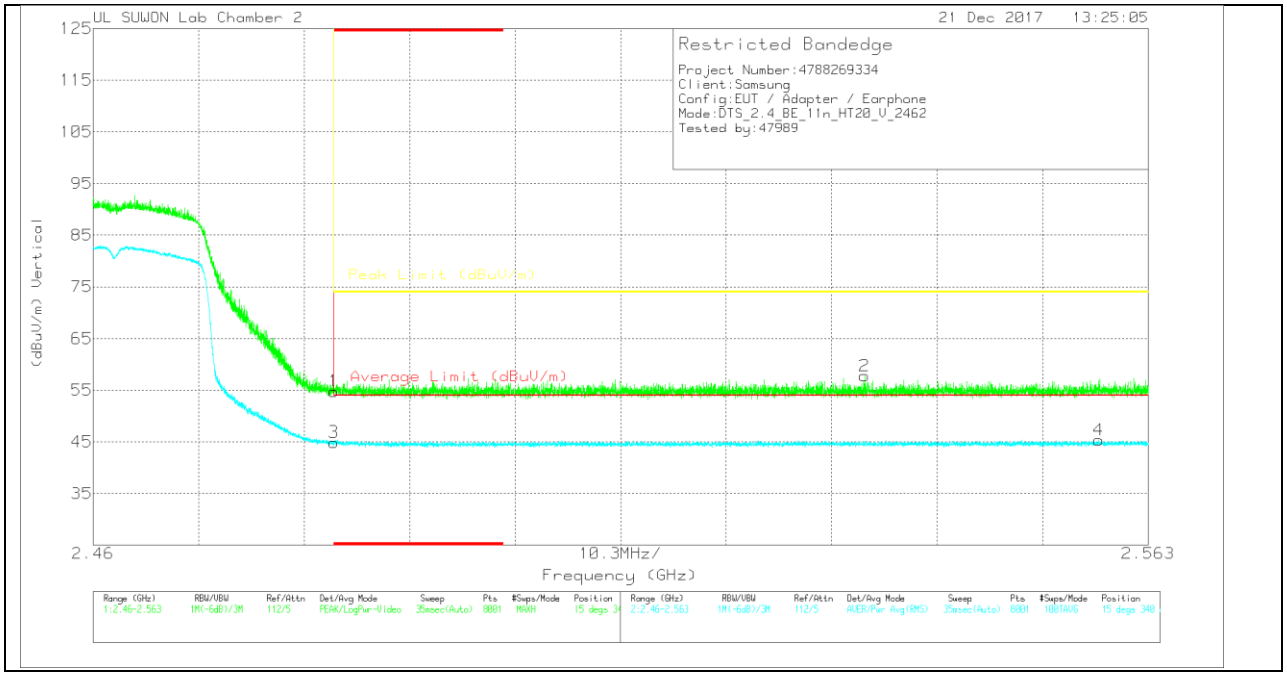
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.64	Pk	31.6	-18	0	59.24	-	-	74	-14.76	173	373	H
2	* 2.484	46.78	Pk	31.6	-18	0	60.38	-	-	74	-13.62	173	373	H
3	* 2.484	34.02	RMS	31.6	-18	.32	47.94	54	-6.06	-	-	173	373	H
4	* 2.484	34.57	RMS	31.6	-18	.32	48.49	54	-5.51	-	-	173	373	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

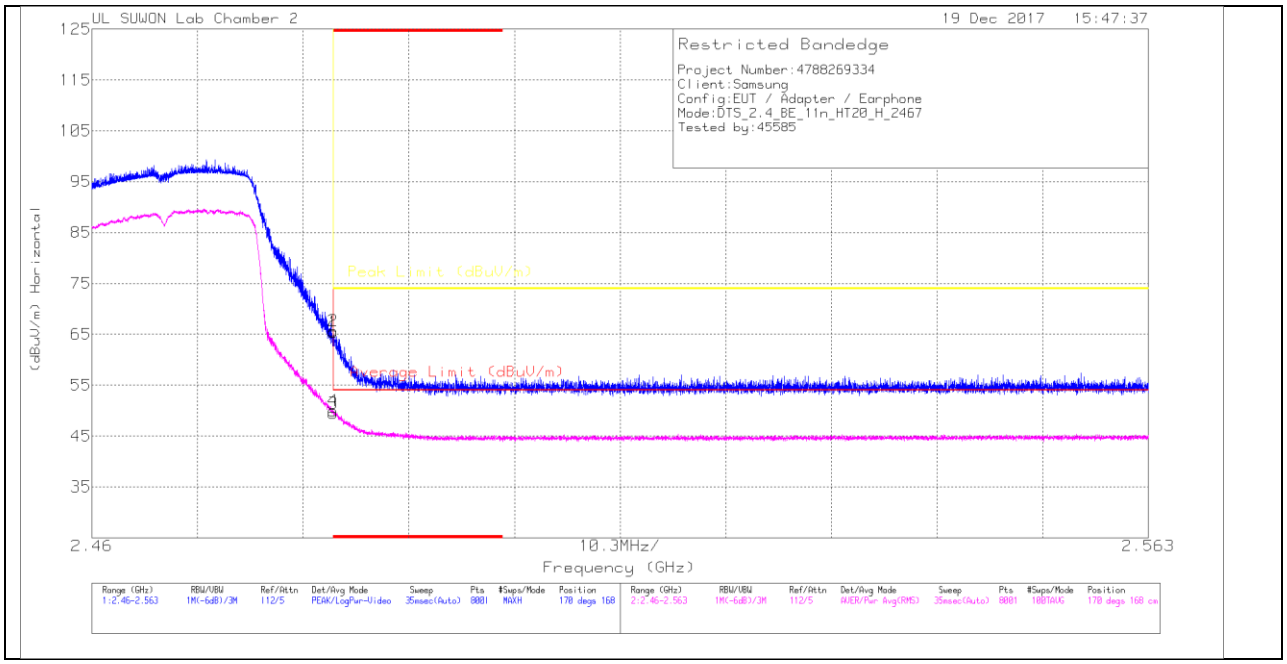
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.2	Pk	31.6	-18	0	54.8	-	-	74	-19.2	15	340	V
2	2.535	44.08	Pk	31.7	-18	0	57.78	-	-	74	-16.22	15	340	V
3	* 2.484	30.99	RMS	31.6	-18	.32	44.91	54	-9.09	-	-	15	340	V
4	2.558	31.32	RMS	31.7	-18	.32	45.34	54	-8.66	-	-	15	340	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

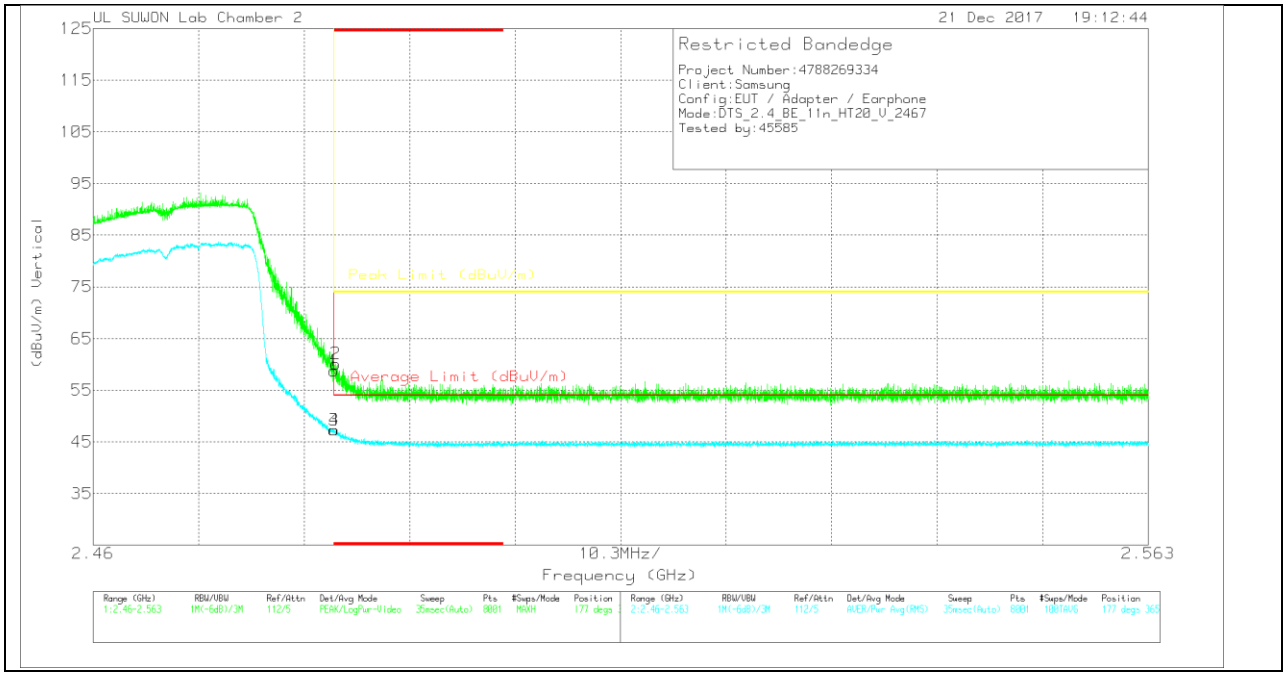
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.86	Pk	31.6	-18	0	65.46	-	-	74	-8.54	170	168	H
2	* 2.484	52.07	Pk	31.6	-18	0	65.67	-	-	74	-8.33	170	168	H
3	* 2.484	35.51	RMS	31.6	-18	.32	49.43	54	-4.57	-	-	170	168	H
4	* 2.484	36.09	RMS	31.6	-18	.32	50.01	54	-3.99	-	-	170	168	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

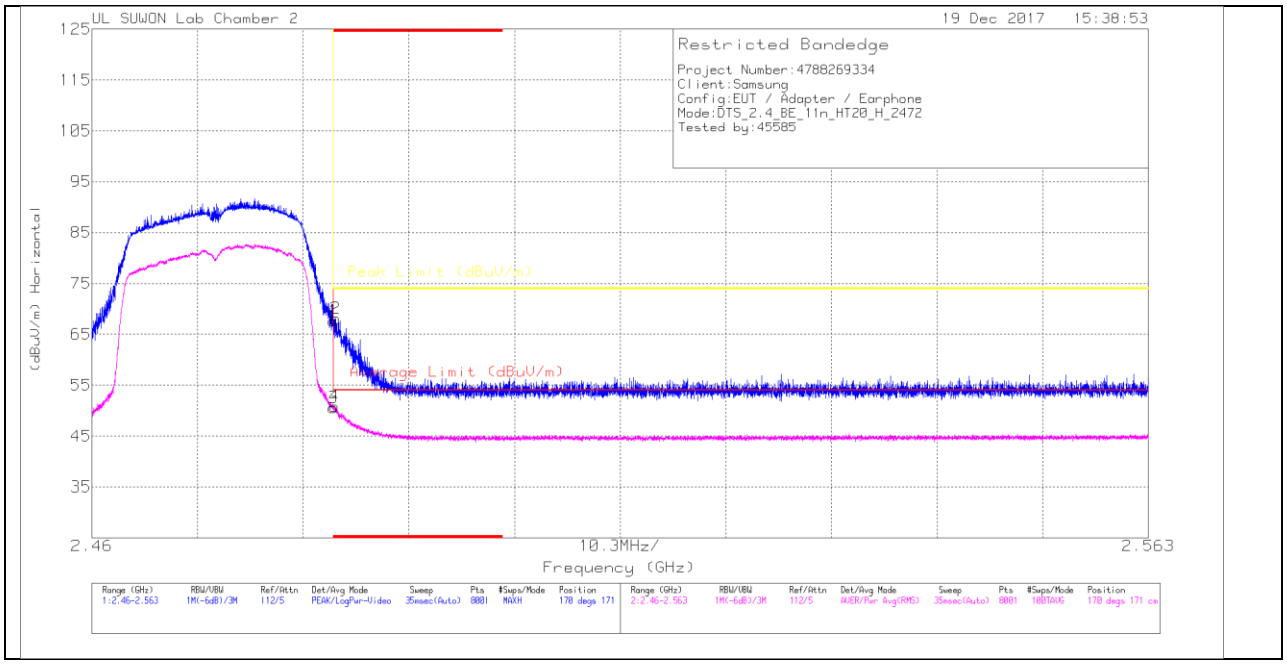
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.13	Pk	31.6	-18	0	58.73	-	-	74	-15.27	177	365	V
2	* 2.484	46.52	Pk	31.6	-18	0	60.12	-	-	74	-13.88	177	365	V
3	* 2.484	33.41	RMS	31.6	-18	.32	47.33	54	-6.67	-	-	177	365	V
4	* 2.484	33.37	RMS	31.6	-18	.32	47.29	54	-6.71	-	-	177	365	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

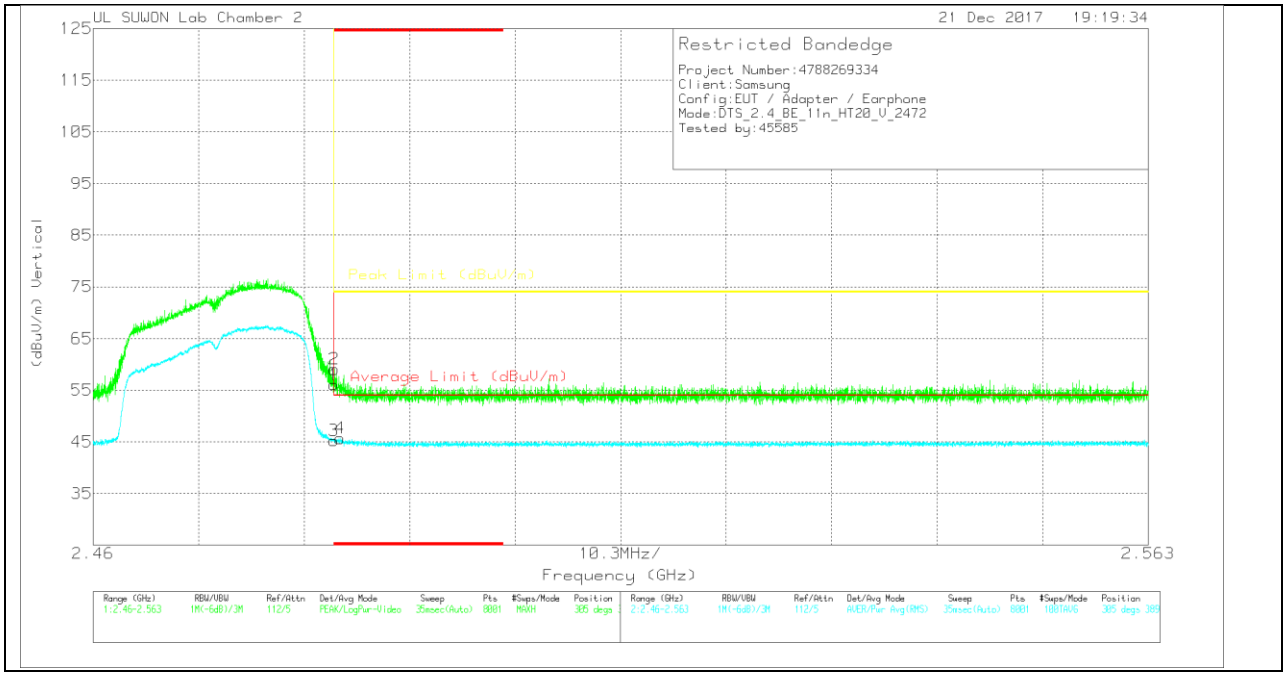
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54	Pk	31.6	-18	0	67.6	-	-	74	-6.4	170	171	H
2	* 2.484	54.48	Pk	31.6	-18	0	68.08	-	-	74	-5.92	170	171	H
3	* 2.484	36.62	RMS	31.6	-18	.32	50.54	54	-3.46	-	-	170	171	H
4	* 2.484	36.9	RMS	31.6	-18	.32	50.82	54	-3.18	-	-	170	171	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

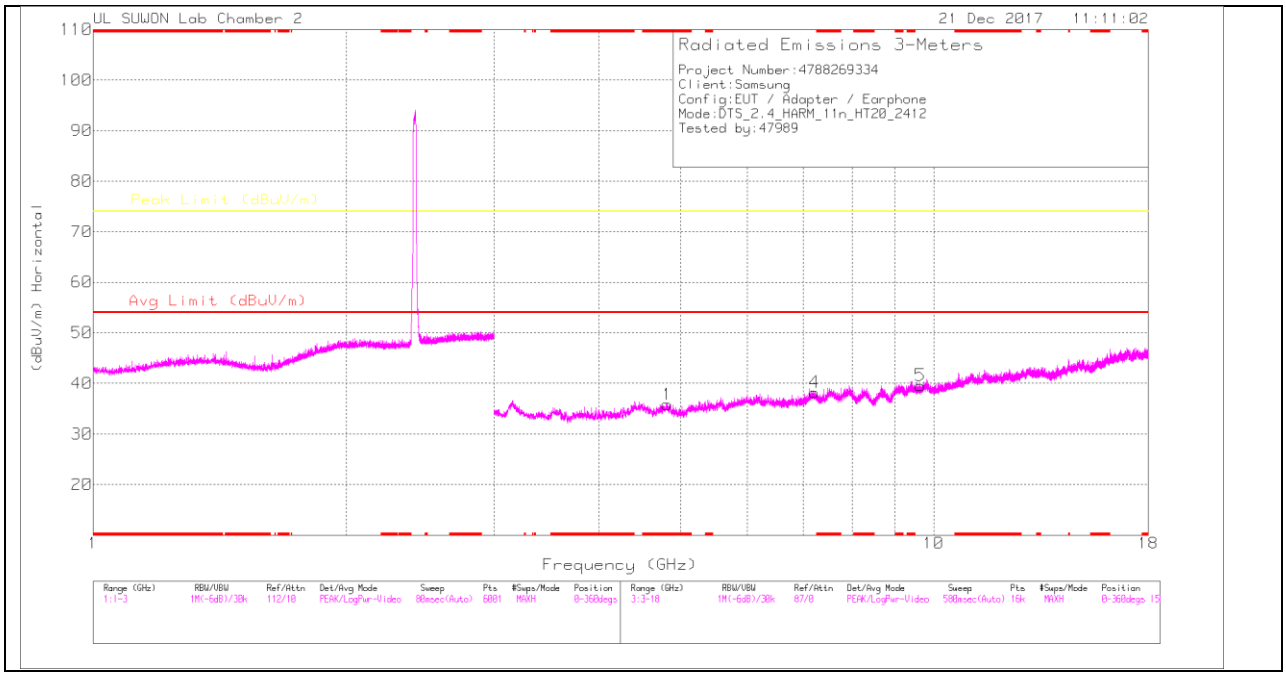
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.47	Pk	31.6	-18	0	56.07	-	-	74	-17.93	305	389	V
2	* 2.484	45.49	Pk	31.6	-18	0	59.09	-	-	74	-14.91	305	389	V
3	* 2.484	31.33	RMS	31.6	-18	.32	45.25	54	-8.75	-	-	305	389	V
4	* 2.484	31.77	RMS	31.6	-18	.32	45.69	54	-8.31	-	-	305	389	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

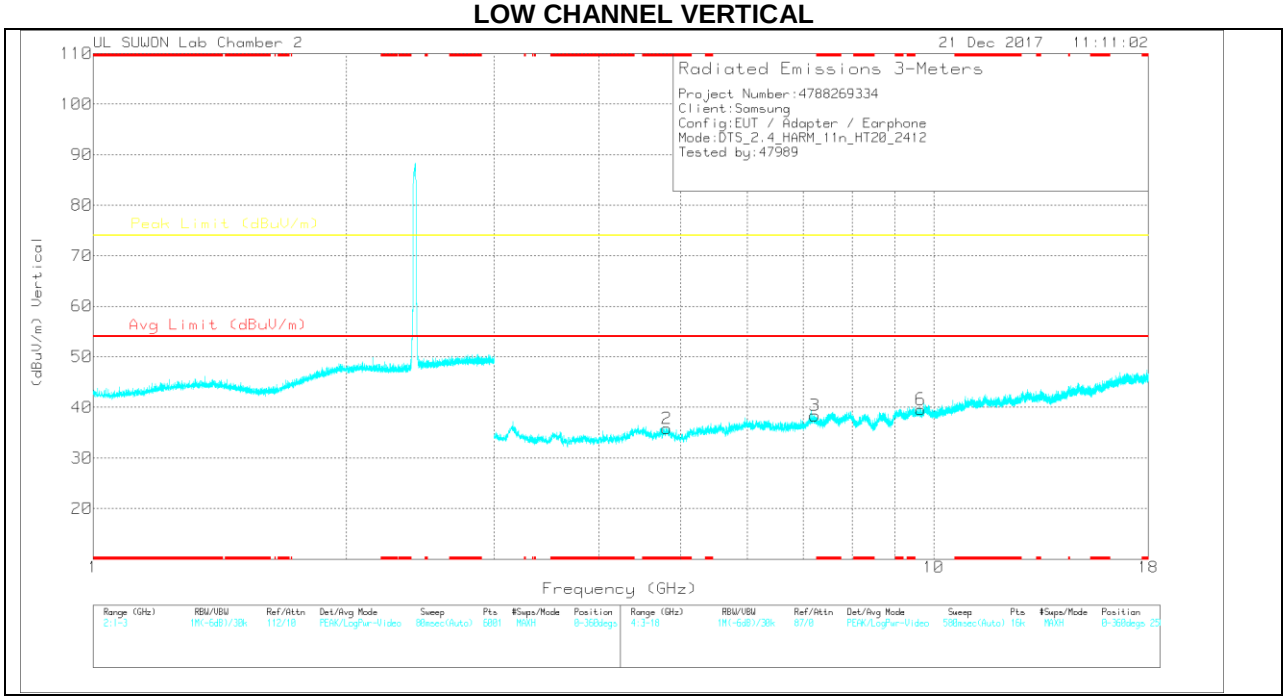
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

LOW CHANNEL DATA

Trace Markers

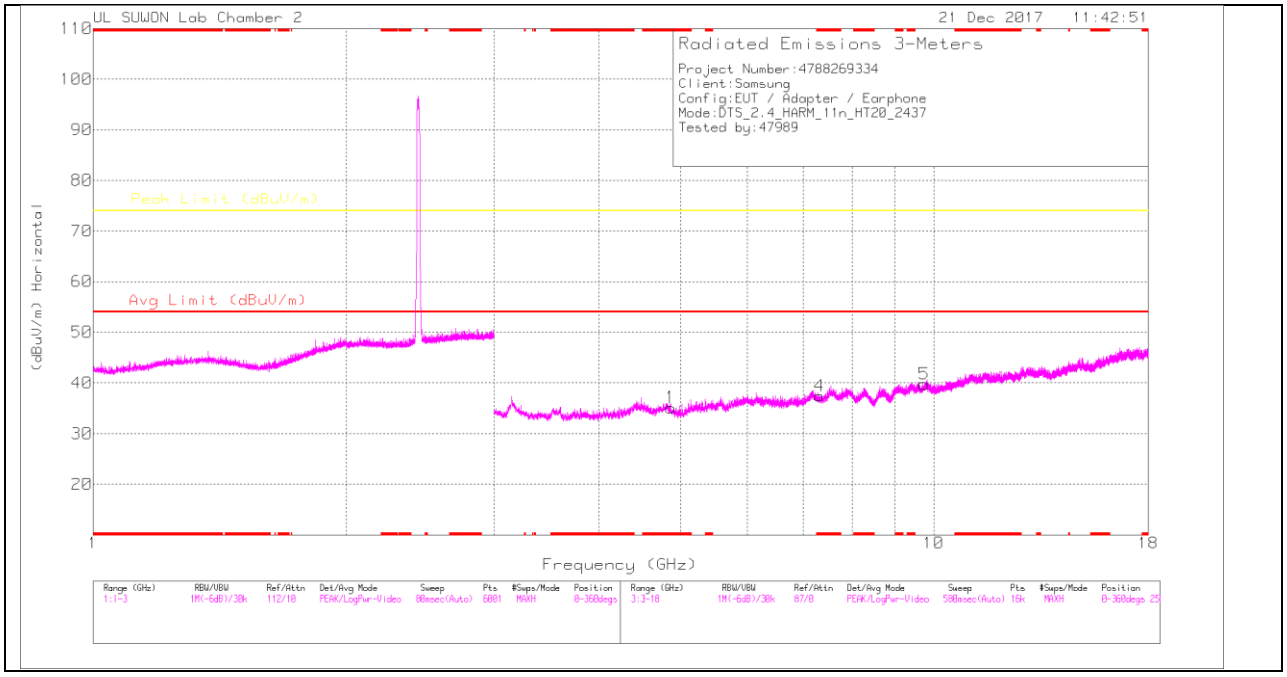
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.82	26.29	PK	33.8	-24.3	0	35.79	-	-	74	-38.21	0-360	250	H
4	7.218	24.11	PK	35.9	-21.8	0	38.21	-	-	74	-35.79	0-360	150	H
5	9.642	21.08	PK	36.8	-18.3	0	39.58	-	-	74	-34.42	0-360	250	H
2	* 4.817	26.32	PK	33.8	-24.3	0	35.82	-	-	74	-38.18	0-360	250	V
3	7.22	24.29	PK	35.9	-21.8	0	38.39	-	-	74	-35.61	0-360	150	V
6	9.647	21.07	PK	36.8	-18.3	0	39.57	-	-	74	-34.43	0-360	150	V

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

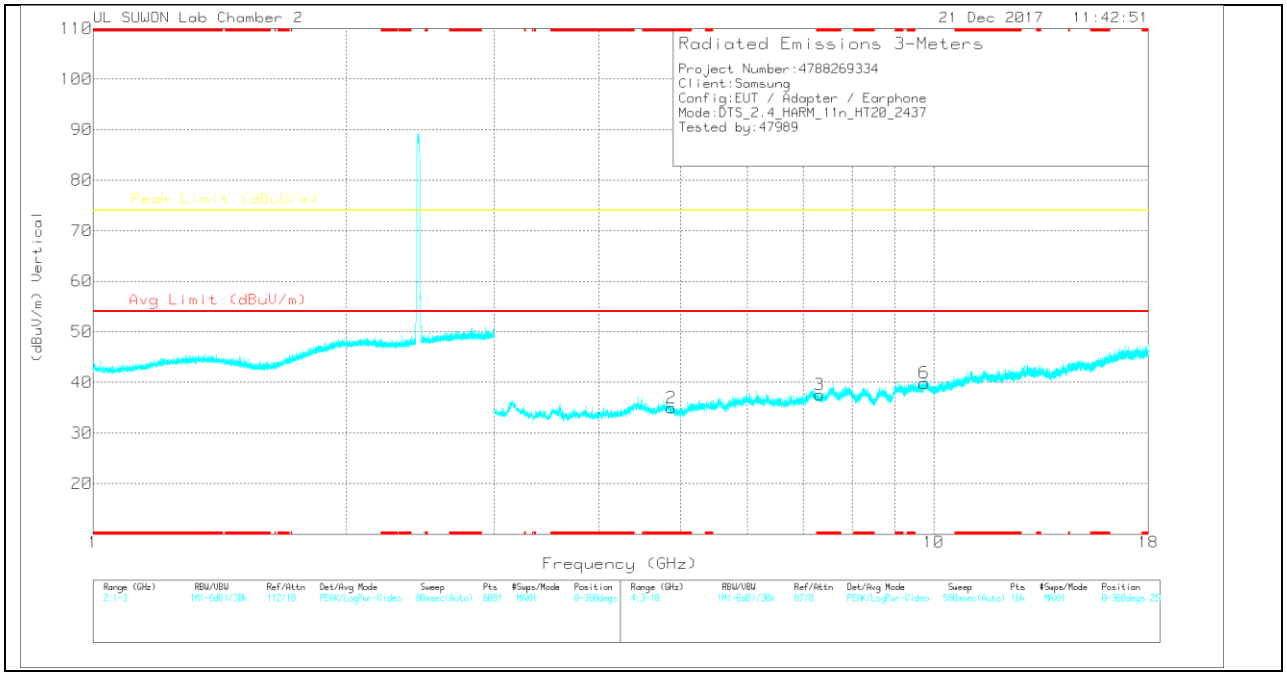
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

MID CHANNEL DATA

Trace Markers

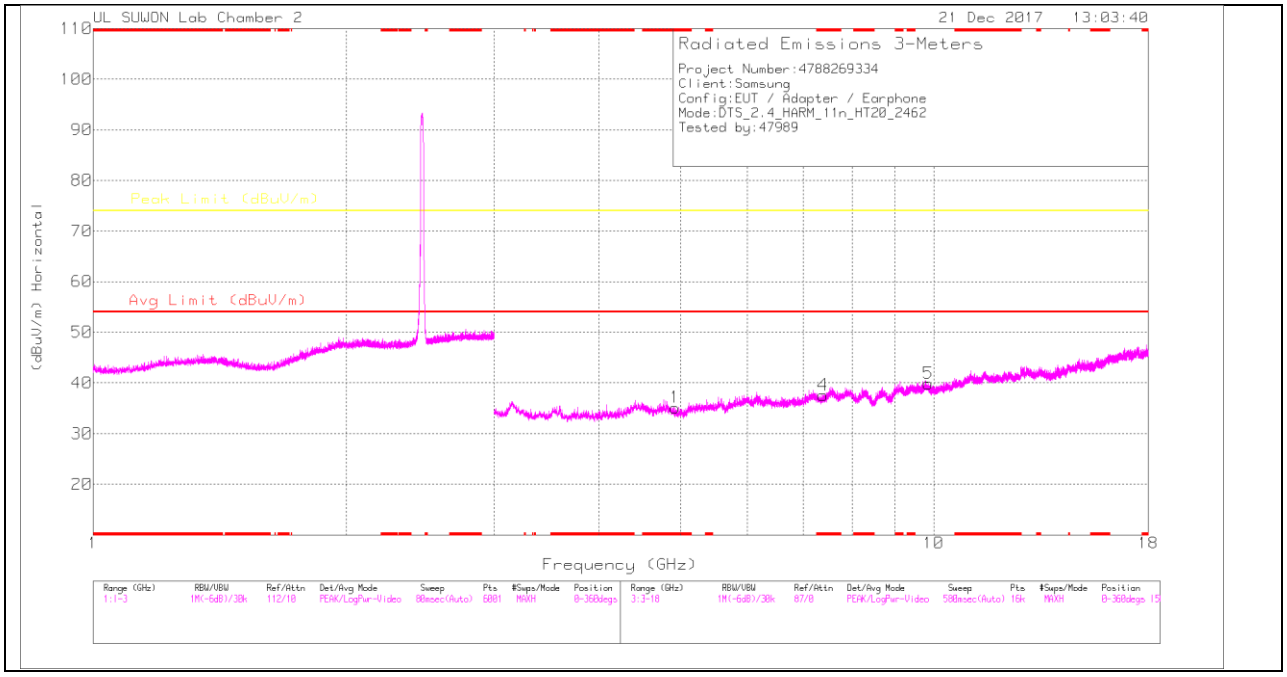
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.868	25.81	PK	33.8	-24.5	0	35.11	-	-	74	-38.89	0-360	250	H
4	* 7.316	23.53	PK	35.9	-22	0	37.43	-	-	74	-36.57	0-360	150	H
5	9.745	20.95	PK	36.9	-18.1	0	39.75	-	-	74	-34.25	0-360	250	H
2	* 4.871	25.65	PK	33.8	-24.5	0	34.95	-	-	74	-39.05	0-360	250	V
3	* 7.315	23.63	PK	35.9	-22	0	37.53	-	-	74	-36.47	0-360	250	V
6	9.742	21.07	PK	36.9	-18.1	0	39.87	-	-	74	-34.13	0-360	150	V

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

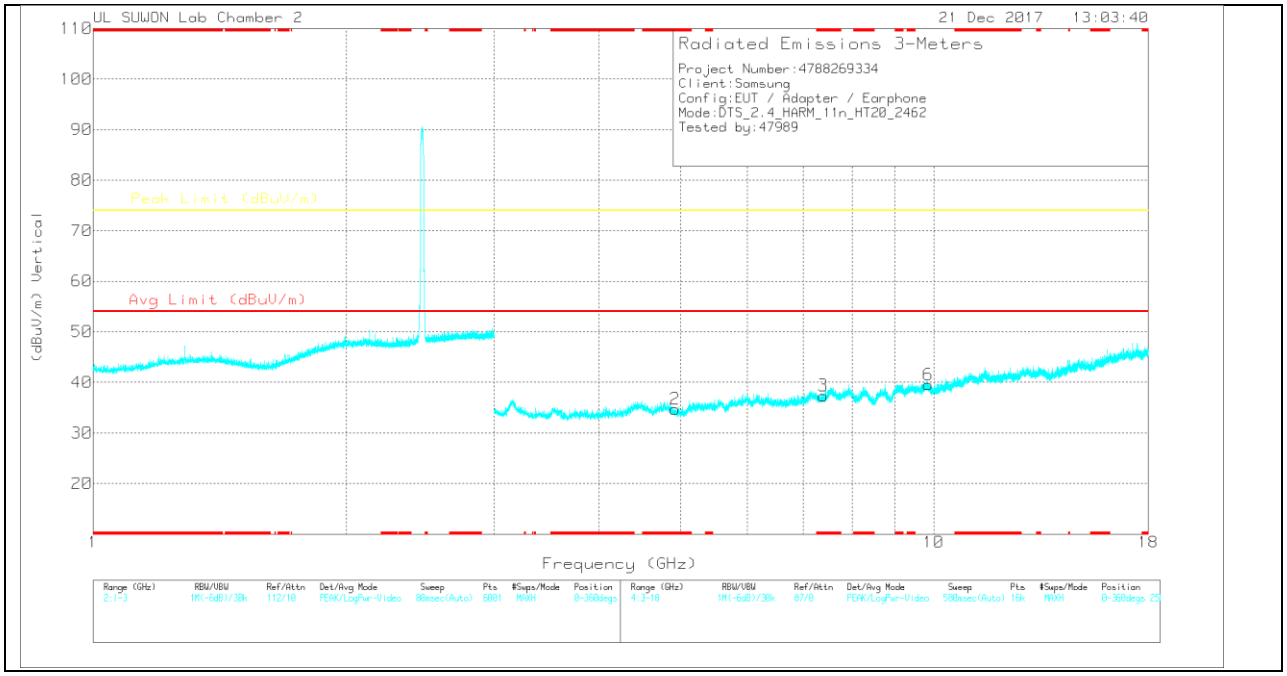
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	170531_3117[00168724]	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.926	26.03	PK	33.8	-24.7	0	35.13	-	-	74	-38.87	0-360	150	H
4	* 7.384	23.08	PK	35.9	-21.4	0	37.58	-	-	74	-36.42	0-360	250	H
5	9.852	20.78	PK	37	-17.9	0	39.88	-	-	74	-34.12	0-360	250	H
2	* 4.923	25.61	PK	33.8	-24.7	0	34.71	-	-	74	-39.29	0-360	150	V
3	* 7.389	22.84	PK	35.9	-21.4	0	37.34	-	-	74	-36.66	0-360	250	V
6	9.85	20.44	PK	37	-17.9	0	39.54	-	-	74	-34.46	0-360	150	V

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

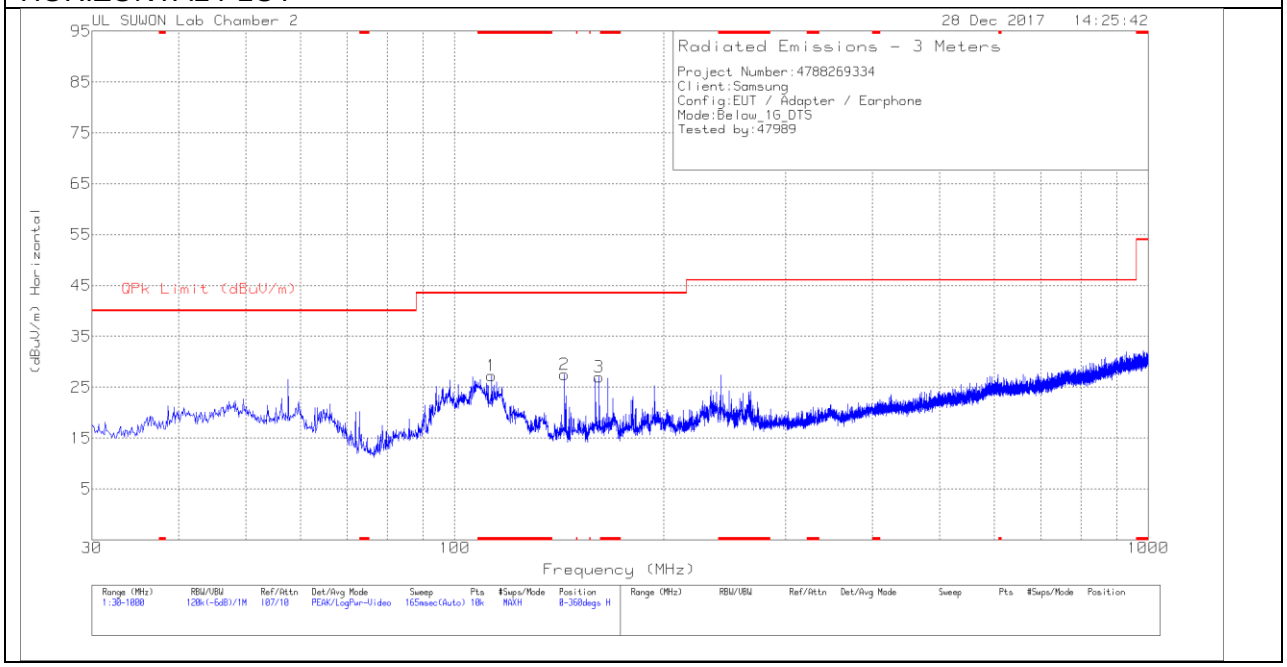
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

10.3. WORST-CASE BELOW 1 GHz

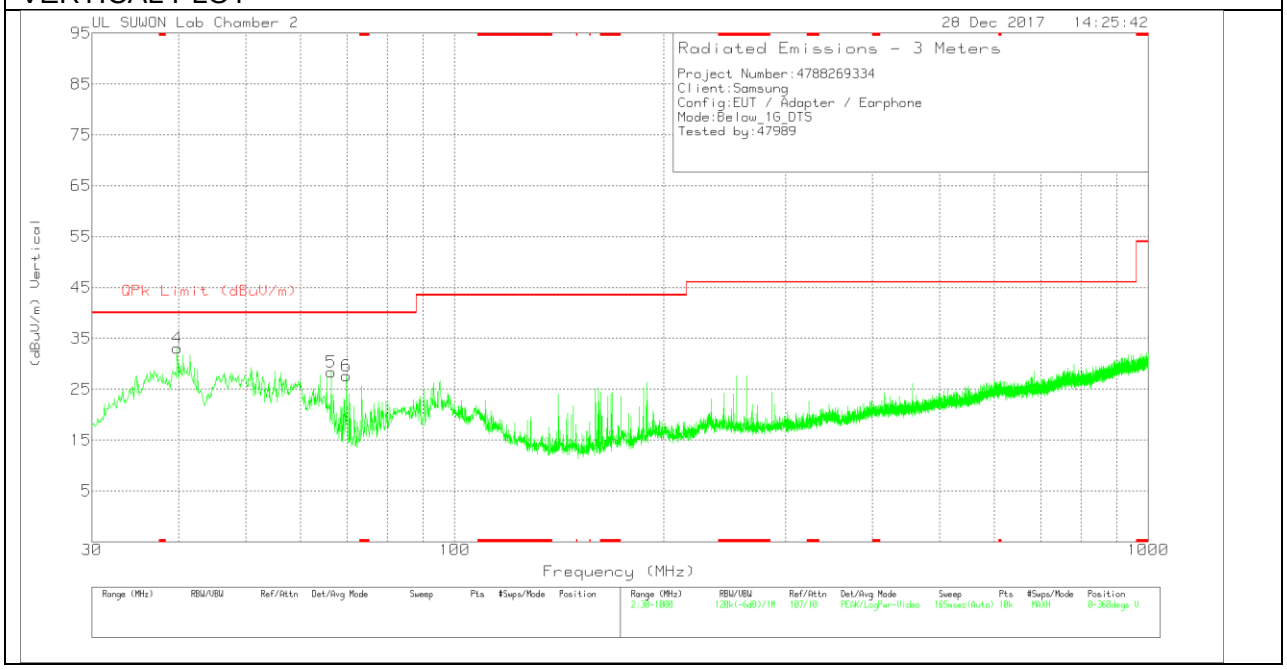
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

Below 1G Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-749	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 113.129	41.43	Pk	16.8	-31	27.23	43.52	-16.29	0-360	200	H
2	144.072	44.85	Pk	13.5	-30.8	27.55	43.52	-15.97	0-360	400	H
3	161.532	43.42	Pk	14.3	-30.7	27.02	43.52	-16.5	0-360	300	H
4	39.797	45.72	Pk	18.9	-31.5	33.12	40	-6.88	0-360	100	V
5	66.375	43.29	Pk	16.4	-31.3	28.39	40	-11.61	0-360	200	V
6	69.867	43.67	Pk	15.2	-31.3	27.57	40	-12.43	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

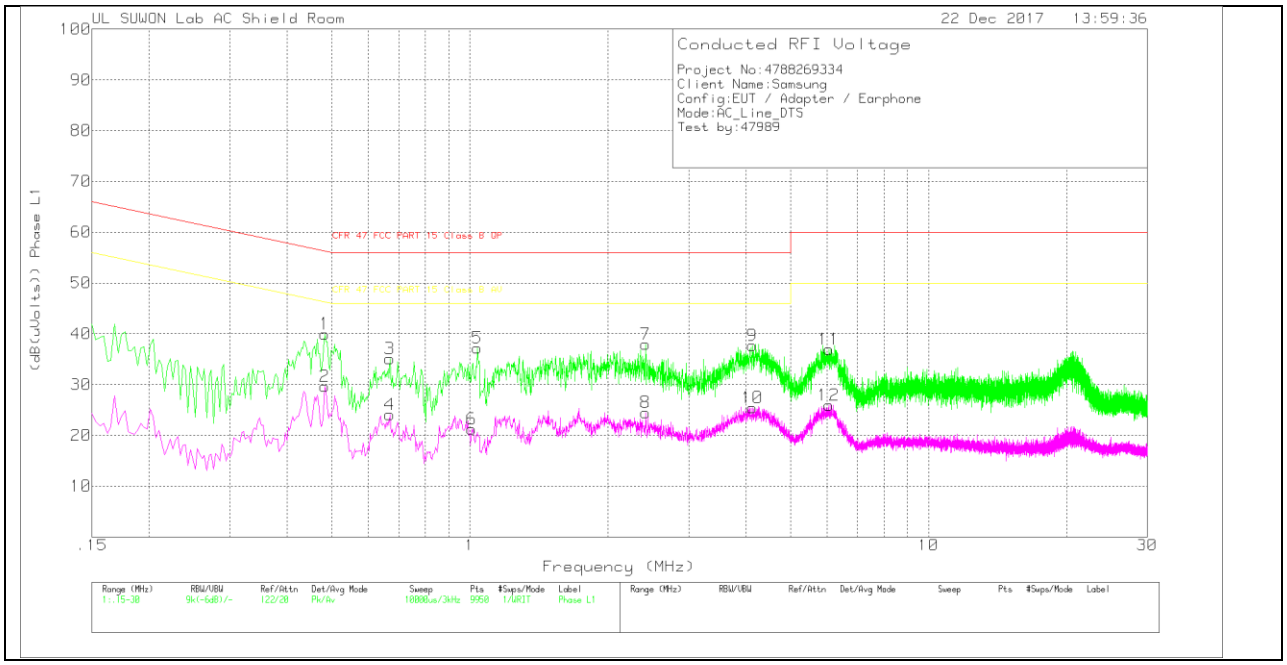
Line conducted data is recorded for both NEUTRAL and HOT lines.

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

RESULTS

WORST EMISSIONS

LINE 1 PLOT



UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

LINE 1 RESULTS

Trace Markers

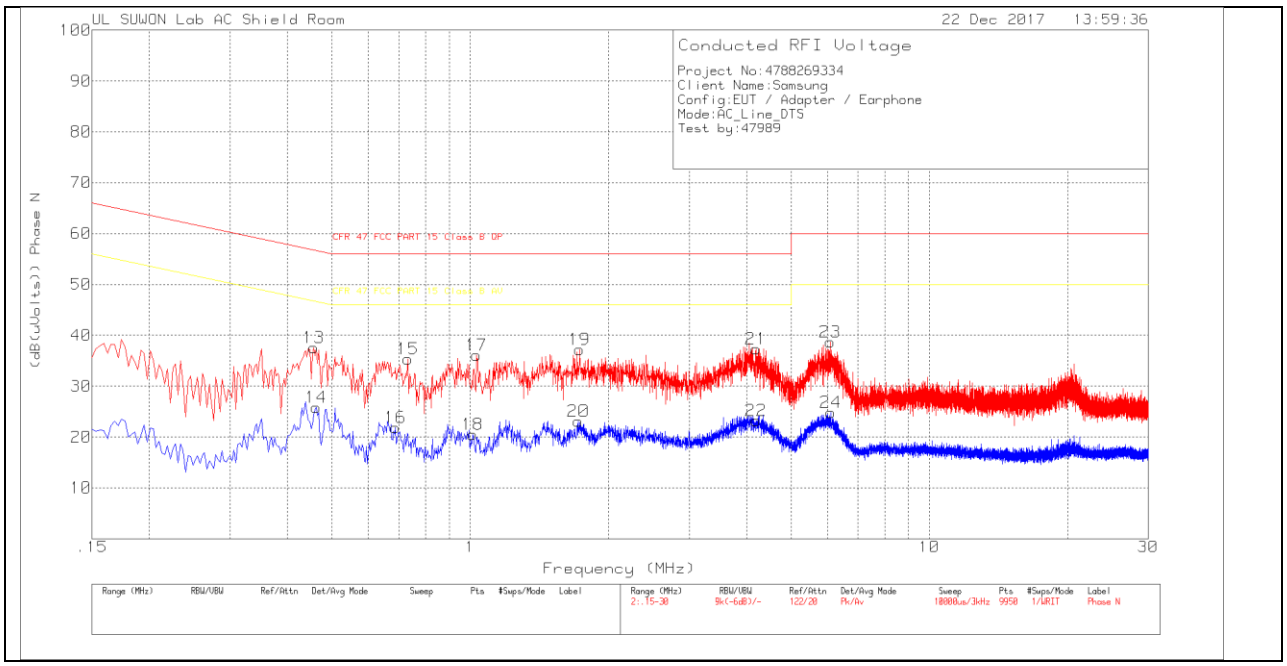
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_with extension	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	.483	30.08	Pk	9.7	.2	39.98	56.29	-16.31	-	-
2	.483	19.71	Av	9.7	.2	29.61	-	-	46.29	-16.68
3	.669	25.15	Pk	9.8	.2	35.15	56	-20.85	-	-
4	.669	14.07	Av	9.8	.2	24.07	-	-	46	-21.93
5	1.038	27.06	Pk	9.8	.3	37.16	56	-18.84	-	-
6	1.008	11.18	Av	9.8	.3	21.28	-	-	46	-24.72
7	2.418	27.89	Pk	9.8	.3	37.99	56	-18.01	-	-
8	2.418	14.42	Av	9.8	.3	24.52	-	-	46	-21.48
9	4.128	27.64	Pk	9.7	.3	37.64	56	-18.36	-	-
10	4.131	15.5	Av	9.7	.3	25.5	-	-	46	-20.5
11	6.066	26.91	Pk	9.7	.3	36.91	60	-23.09	-	-
12	6.057	15.89	Av	9.7	.3	25.89	-	-	50	-24.11

Pk - Peak detector
Av - Average detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

LINE 2 PLOT



UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	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	.456	27.56	Pk	9.8	.2	37.56	56.77	-19.21	-	-
14	.462	15.87	Av	9.8	.2	25.87	-	-	46.66	-20.79
15	.732	25.41	Pk	9.7	.2	35.31	56	-20.69	-	-
16	.687	11.82	Av	9.8	.2	21.82	-	-	46	-24.18
17	1.032	25.85	Pk	9.9	.3	36.05	56	-19.95	-	-
18	1.014	10.35	Av	9.9	.3	20.55	-	-	46	-25.45
19	1.731	26.96	Pk	9.9	.3	37.16	56	-18.84	-	-
20	1.722	12.87	Av	9.9	.3	23.07	-	-	46	-22.93
21	4.194	27.19	Pk	9.8	.3	37.29	56	-18.71	-	-
22	4.191	13.13	Av	9.8	.3	23.23	-	-	46	-22.77
23	6.093	28.53	Pk	9.8	.3	38.63	60	-21.37	-	-
24	6.099	14.71	Av	9.8	.3	24.81	-	-	50	-25.19

Pk - Peak detector
Av - Average detection

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.