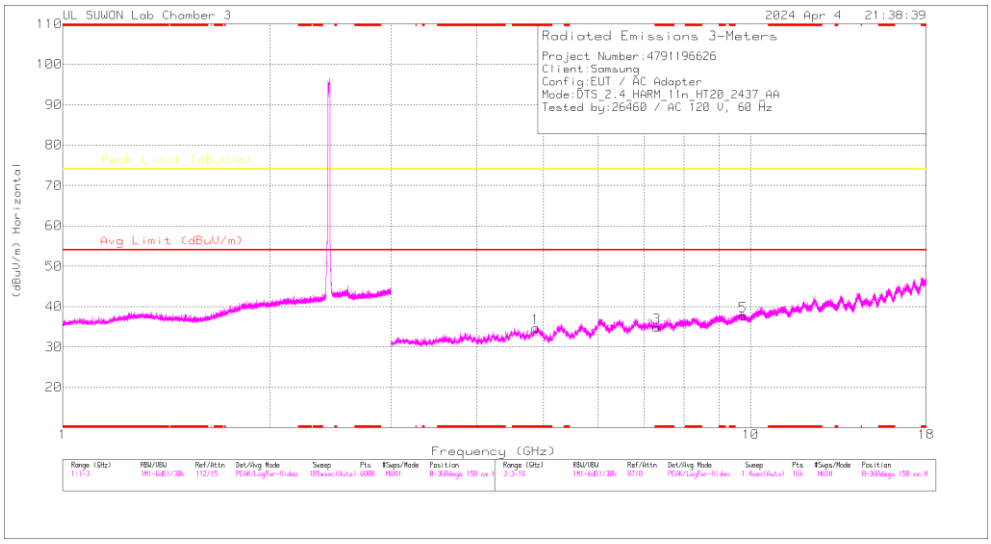
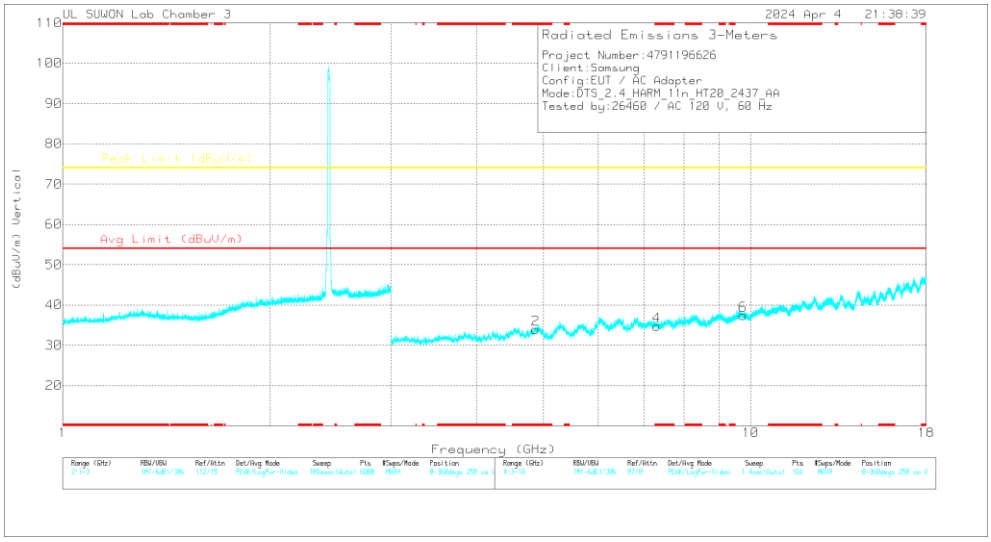
HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL)

CH 6 RESULTS



HORIZONTAL



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.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_957_ Factor(dB)	3GHz_HP_Pat h Loss(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
* 4.87412	40.25	PK2	34.2	-29.8	0	44.65	-	-	74	-29.35	0	100	H
* 4.87183	39.86	PK2	34.2	-29.9	0	44.16	-	-	74	-29.84	0	100	V
* 7.3061	37.15	PK2	35.8	-25.5	0	47.45	-	-	74	-26.55	112	202	H
* 7.30667	24.68	MAv1	35.8	-25.5	.09	35.07	54	-18.93	-	-	112	202	H
* 7.30559	36.75	PK2	35.8	-25.5	0	47.05	-	-	74	-26.95	190	105	V
* 7.30572	25.02	MAv1	35.8	-25.5	.09	35.41	54	-18.59	-	-	190	105	V
9.7456	31.77	PK2	36.9	-21.6	0	47.07	-	-	74	-26.93	0	100	H
9.74799	32.13	PK2	36.9	-21.6	0	47.43	-	-	74	-26.57	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 4.82268	38.96	PK2	34.30	-30.10	0.00	43.16	-	-	74.00	-30.84	0	100	**H**
		* 4.82369	39.32	PK2	34.30	-30.10	0.00	43.52	-	-	74.00	-30.48	0	100	**V**
		7.227	37.32	PK2	35.80	-25.90	0.00	47.22	-	-	74.00	-26.78	158	161	**H**
		7.223	36.57	PK2	35.80	-25.80	0.00	46.57	-	-	74.00	-27.43	184	158	**V**
		9.649	32.31	PK2	36.80	-21.80	0.00	47.31	-	-	74.00	-26.69	0	100	**H**
		9.646	33.05	PK2	36.80	-21.70	0.00	48.15	-	-	74.00	**-25.85**	0	100	**V**
2437	MIMO	* 4.87412	40.25	PK2	34.20	-29.80	0.00	44.65	-	-	74.00	-29.35	0	100	**H**
		* 4.87183	39.86	PK2	34.20	-29.90	0.00	44.16	-	-	74.00	-29.84	0	100	**V**
		* 7.3061	37.15	PK2	35.80	-25.50	0.00	47.45	-	-	74.00	-26.55	112	202	**H**
		* 7.30667	24.68	MAv1	35.80	-25.50	0.09	35.07	54.00	-18.93	-	-	112	202	**H**
		* 7.30559	36.75	PK2	35.80	-25.50	0.00	47.05	-	-	74.00	-26.95	190	105	**V**
		* 7.30572	25.02	MAv1	35.80	-25.50	0.09	35.41	54.00	**-18.59**	-	-	190	105	**V**
		9.746	31.77	PK2	36.90	-21.60	0.00	47.07	-	-	74.00	-26.93	0	100	**H**
		9.748	32.13	PK2	36.90	-21.60	0.00	47.43	-	-	74.00	-26.57	0	100	**V**
2457	MIMO	* 4.91455	40.78	PK2	34.20	-29.90	0.00	45.08	-	-	74.00	-28.92	0	100	**V**
		* 4.91274	40.04	PK2	34.20	-29.90	0.00	44.34	-	-	74.00	-29.66	0	100	**H**
		* 7.36793	35.28	PK2	35.80	-25.50	0.00	45.58	-	-	74.00	-28.42	113	238	**H**
		* 7.36602	24.05	MAv1	35.80	-25.40	0.09	34.54	54.00	-19.46	-	-	113	238	**H**
		* 7.36797	35.45	PK2	35.80	-25.50	0.00	45.75	-	-	74.00	-28.25	220	391	**V**
		* 7.3637	24.05	MAv1	35.80	-25.50	0.09	34.44	54.00	-19.56	-	-	220	391	**V**
		9.826	31.76	PK2	37.10	-21.50	0.00	47.36	-	-	74.00	-26.64	0	100	**H**
		9.827	31.58	PK2	37.10	-21.50	0.00	47.18	-	-	74.00	-26.82	0	100	**V**

Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

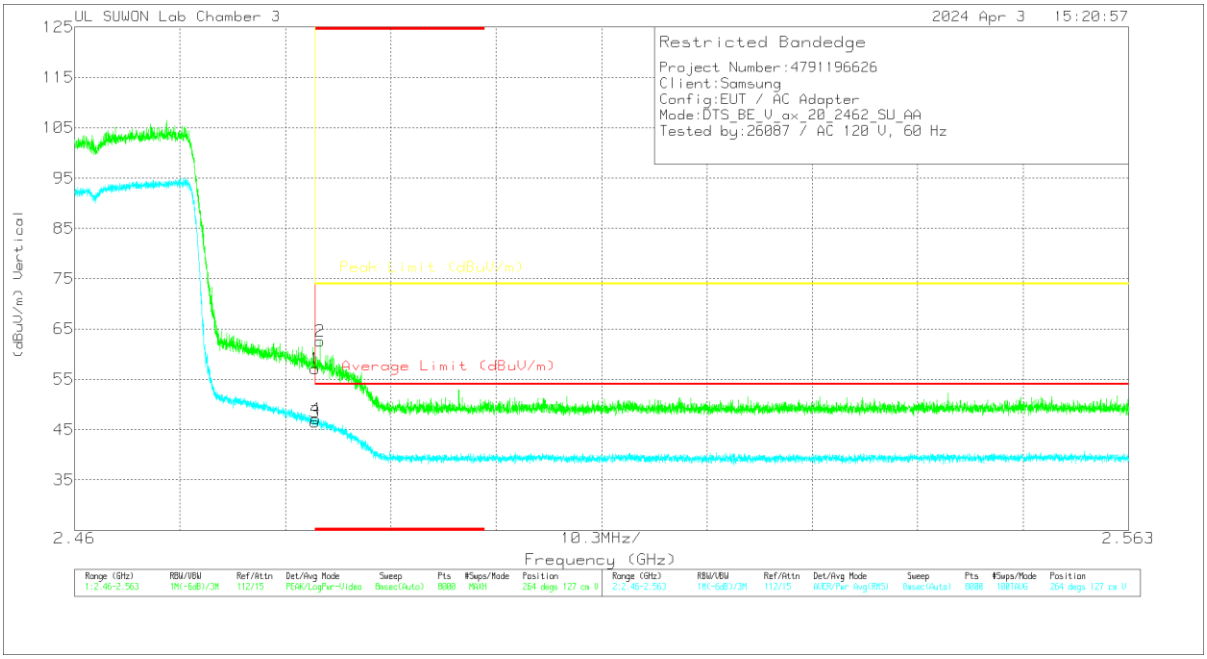
UL KOREA LTD. Suwon Laboratory FORM ID: FCC_15C(05)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

10.1.4. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (11 CHANNEL, SU)

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_957_Factor(dB)	10dB_Path Loss(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	* 2.4835	49.46	Pk	32.4	-24.8	0	57.06	-	-	74	-16.94	264	127	V
2	* 2.48398	54.98	Pk	32.4	-24.8	0	62.58	-	-	74	-11.42	264	127	V
3	* 2.4835	38.91	RMS	32.4	-24.8	0	46.51	54	-7.49	-	-	264	127	V
4	* 2.48355	39.51	RMS	32.4	-24.8	0	47.11	54	-6.89	-	-	264	127	V

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

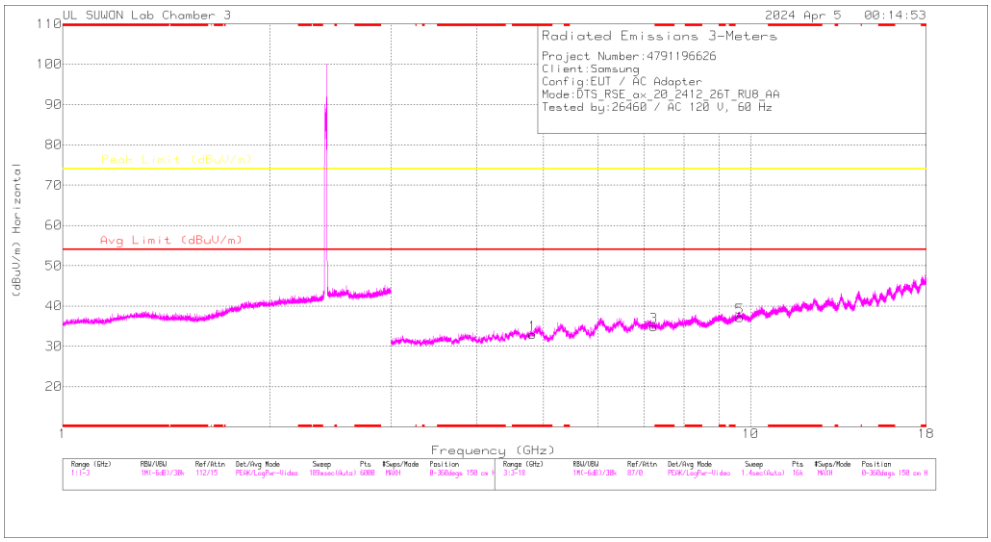
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412 RU mode 26 Tone Offset 0	MIMO	* 2.39	41.49	Pk	32.10	-24.80	0.00	48.79	-	-	74.00	-25.21	171	211	H
		* 2.37704	44.58	Pk	32.10	-24.80	0.00	51.88	-	-	74.00	-22.12	171	211	H
		* 2.39	32.07	RMS	32.10	-24.80	0.00	39.37	54.00	-14.63	-	-	171	211	H
		* 2.3878	33.18	RMS	32.10	-24.80	0.00	40.48	54.00	-13.52	-	-	171	211	H
		* 2.39	42.34	Pk	32.10	-24.80	0.00	49.64	-	-	74.00	-24.36	260	222	V
		* 2.38954	44.58	Pk	32.10	-24.80	0.00	51.88	-	-	74.00	-22.12	260	222	V
		* 2.39	32.25	RMS	32.10	-24.80	0.00	39.55	54.00	-14.45	-	-	260	222	V
		* 2.38981	33.05	RMS	32.10	-24.80	0.00	40.35	54.00	-13.65	-	-	260	222	V
2412 SU mode	MIMO	* 2.39	43.78	Pk	32.10	-24.80	0.00	51.08	-	-	74.00	-22.92	205	101	H
		* 2.38926	46.29	Pk	32.10	-24.80	0.00	53.59	-	-	74.00	-20.41	205	101	H
		* 2.39	33.42	RMS	32.10	-24.80	0.00	40.72	54.00	-13.28	-	-	205	100	H
		* 2.38983	34.55	RMS	32.10	-24.80	0.00	41.85	54.00	-12.15	-	-	205	100	H
		* 2.39	49.28	Pk	32.10	-24.80	0.00	56.58	-	-	74.00	-17.42	254	274	V
		* 2.38969	51.93	Pk	32.10	-24.80	0.00	59.23	-	-	74.00	-14.77	254	274	V
		* 2.39	39.30	RMS	32.10	-24.80	0.00	46.60	54.00	-7.40	-	-	254	274	V
		* 2.38998	39.63	RMS	32.10	-24.80	0.00	46.93	54.00	-7.07	-	-	254	274	V
2417 SU mode	MIMO	* 2.39	44.72	Pk	32.10	-24.80	0.00	52.02	-	-	74.00	-21.98	200	101	H
		* 2.38993	46.31	Pk	32.10	-24.80	0.00	53.61	-	-	74.00	-20.39	200	101	H
		* 2.39	34.39	RMS	32.10	-24.80	0.00	41.69	54.00	-12.31	-	-	200	100	H
		* 2.38988	34.09	RMS	32.10	-24.80	0.00	41.39	54.00	-12.61	-	-	200	100	H
		* 2.39	48.09	Pk	32.10	-24.80	0.00	55.39	-	-	74.00	-18.61	260	220	V
		* 2.38985	50.94	Pk	32.10	-24.80	0.00	58.24	-	-	74.00	-15.76	260	220	V
		* 2.39	36.71	RMS	32.10	-24.80	0.00	44.01	54.00	-9.99	-	-	260	220	V
		* 2.38998	37.88	RMS	32.10	-24.80	0.00	45.18	54.00	-8.82	-	-	260	220	V
2457 SU mode	MIMO	* 2.4835	46.20	Pk	32.40	-24.80	0.00	53.80	-	-	74.00	-20.20	145	386	H
		* 2.48381	49.16	Pk	32.40	-24.80	0.00	56.76	-	-	74.00	-17.24	145	386	H
		* 2.4835	35.22	RMS	32.40	-24.80	0.00	42.82	54.00	-11.18	-	-	145	386	H
		* 2.48353	35.88	RMS	32.40	-24.80	0.00	43.48	54.00	-10.52	-	-	145	386	H
		* 2.4835	47.29	Pk	32.40	-24.80	0.00	54.89	-	-	74.00	-19.11	262	209	V
		* 2.48384	50.17	Pk	32.40	-24.80	0.00	57.77	-	-	74.00	-16.23	262	209	V
		* 2.4835	35.91	RMS	32.40	-24.80	0.00	43.51	54.00	-10.49	-	-	262	209	V
		* 2.48356	37.32	RMS	32.40	-24.80	0.00	44.92	54.00	-9.08	-	-	262	209	V
2462 RU mode 26 Tone Offset 8	MIMO	* 2.4835	43.68	Pk	32.40	-24.80	0.00	51.28	-	-	74.00	-22.72	136	103	H
		* 2.48353	44.59	Pk	32.40	-24.80	0.00	52.19	-	-	74.00	-21.81	136	103	H
		* 2.4835	32.17	RMS	32.40	-24.80	0.00	39.77	54.00	-14.23	-	-	136	103	H
		* 2.48358	33.41	RMS	32.40	-24.80	0.00	41.01	54.00	-12.99	-	-	136	103	H
		* 2.4835	42.89	Pk	32.40	-24.80	0.00	50.49	-	-	74.00	-23.51	250	288	V
		* 2.48564	47.22	Pk	32.40	-24.80	0.00	54.82	-	-	74.00	-19.18	250	288	V
		* 2.4835	32.71	RMS	32.40	-24.80	0.00	40.31	54.00	-13.69	-	-	250	288	V
		2.551	33.17	RMS	32.40	-24.70	0.00	40.87	54.00	-13.13	-	-	250	288	V
2462 SU mode	MIMO	* 2.4835	48.83	Pk	32.40	-24.80	0.00	56.43	-	-	74.00	-17.57	141	100	H
		* 2.48497	50.73	Pk	32.40	-24.80	0.00	58.33	-	-	74.00	-15.67	141	100	H
		* 2.4835	37.56	RMS	32.40	-24.80	0.00	45.16	54.00	-8.84	-	-	141	100	H
		* 2.48371	38.08	RMS	32.40	-24.80	0.00	45.68	54.00	-8.32	-	-	141	100	H
		* 2.4835	49.46	Pk	32.40	-24.80	0.00	57.06	-	-	74.00	-16.94	264	127	V
		* 2.48398	54.98	Pk	32.40	-24.80	0.00	62.58	-	-	74.00	**-11.42**	264	127	V
		* 2.4835	38.91	RMS	32.40	-24.80	0.00	46.51	54.00	-7.49	-	-	264	127	V
		* 2.48355	39.51	RMS	32.40	-24.80	0.00	47.11	54.00	**-6.89**	-	-	264	127	V
2467 RU mode 26 Tone Offset 8	MIMO	* 2.4835	43.34	Pk	32.40	-24.80	0.00	50.94	-	-	74.00	-23.06	196	139	H
		* 2.48351	44.77	Pk	32.40	-24.80	0.00	52.37	-	-	74.00	-21.63	196	139	H
		* 2.4835	31.80	RMS	32.40	-24.80	0.00	39.40	54.00	-14.60	-	-	196	139	H
		* 2.49499	33.06	RMS	32.40	-24.80	0.00	40.66	54.00	-13.34	-	-	196	139	H
		* 2.4835	44.35	Pk	32.40	-24.80	0.00	51.95	-	-	74.00	-22.05	262	208	V
		* 2.48405	46.41	Pk	32.40	-24.80	0.00	54.01	-	-	74.00	-19.99	262	208	V
		* 2.4835	32.33	RMS	32.40	-24.80	0.00	39.93	54.00	-14.07	-	-	262	208	V
		2.545	33.11	RMS	32.40	-24.60	0.00	40.91	54.00	-13.09	-	-	262	208	V
2467 SU mode	MIMO	* 2.4835	41.15	Pk	32.40	-24.80	0.00	48.75	-	-	74.00	-25.25	143	378	H
		2.558	45.06	Pk	32.40	-24.70	0.00	52.76	-	-	74.00	-21.24	143	378	H
		* 2.4835	32.14	RMS	32.40	-24.80	0.00	39.74	54.00	-14.26	-	-	143	378	H
		2.552	32.92	RMS	32.40	-24.70	0.00	40.62	54.00	-13.38	-	-	143	378	H
		* 2.4835	43.97	Pk	32.40	-24.80	0.00	51.57	-	-	74.00	-22.43	248	287	V
		2.547	44.55	Pk	32.40	-24.70	0.00	52.25	-	-	74.00	-21.75	248	287	V
		* 2.4835	31.05	RMS	32.40	-24.80	0.00	38.65	54.00	-15.35	-	-	248	287	V
		2.557	32.97	RMS	32.40	-24.70	0.00	40.67	54.00	-13.33	-	-	248	287	V
2472 RU mode 26 Tone Offset 8	MIMO	* 2.4835	48.45	Pk	32.40	-24.80	0.00	56.05	-	-	74.00	-17.95	199	141	H
		* 2.48351	48.66	Pk	32.40	-24.80	0.00	56.26	-	-	74.00	-17.74	199	141	H
		* 2.4835	32.67	RMS	32.40	-24.80	0.00	40.27	54.00	-13.73	-	-	199	141	H
		* 2.4836	33.38	RMS	32.40	-24.80	0.00	40.98	54.00	-13.02	-	-	199	141	H
		* 2.4835	48.12	Pk	32.40	-24.80	0.00	55.72	-	-	74.00	-18.28	250	284	V
		* 2.48366	49.02	Pk	32.40	-24.80	0.00	56.62	-	-	74.00	-17.38	250	284	V
		* 2.4835	32.13	RMS	32.40	-24.80	0.00	39.73	54.00	-14.27	-	-	250	284	V
		* 2.48356	33.44	RMS	32.40	-24.80	0.00	41.04	54.00	-12.96	-	-	250	284	V
2472 SU mode	MIMO	* 2.4835	42.12	Pk	32.40	-24.80	0.00	49.72	-	-	74.00	-24.28	200	100	H
		2.530	44.05	Pk	32.40	-24.70	0.00	51.75	-	-	74.00	-22.25	200	100	H
		* 2.4835	32.10	RMS	32.40	-24.80	0.00	39.70	54.00	-14.30	-	-	200	100	H
		* 2.48389	33.05	RMS	32.40	-24.80	0.00	40.65	54.00	-13.35	-	-	200	100	H
		* 2.4835	42.72	Pk	32.40	-24.80	0.00	50.32	-	-	74.00	-23.68	262	181	V
		* 2.48351	45.06	Pk	32.40	-24.80	0.00	52.66	-	-	74.00	-21.34	262	181	V
		* 2.4835	32.20	RMS	32.40	-24.80	0.00	39.80	54.00	-14.20	-	-	262	181	V
		* 2.49738	33.05	RMS	32.40	-24.80	0.00	40.65	54.00	-13.35	-	-	262	181	V

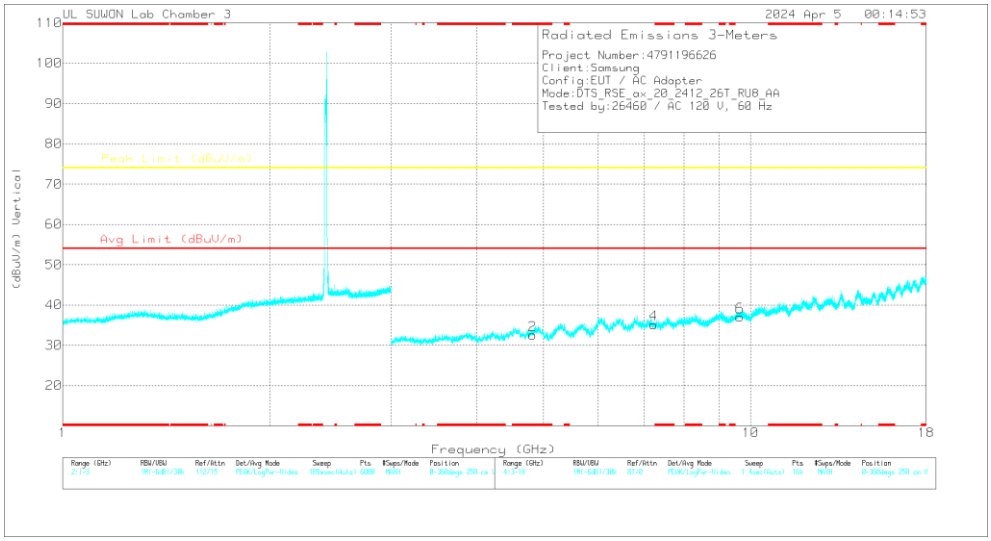
Note1. Pk - Peak detector, RMS - RMS detectior
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 1 CHANNEL, 8RU)

CH 1 RESULTS



HORIZONTAL



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.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_957_ Factor(dB)	3GHz_HP_Pat h Loss(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
* 4.82257	39.25	PK2	34.3	-30.1	0	43.45	-	-	74	-30.55	0	100	H
* 4.82432	38.75	PK2	34.3	-30.1	0	42.95	-	-	74	-31.05	0	100	V
* 7.26031	38.74	PK2	35.8	-25.7	0	48.84	-	-	74	-25.16	111	174	H
* 7.26143	25.12	MAv1	35.8	-25.7	0	35.22	54	-18.78	-	-	111	174	H
* 7.26094	39.88	PK2	35.8	-25.7	0	49.98	-	-	74	-24.02	217	390	V
* 7.26125	26.08	MAv1	35.8	-25.7	0	36.18	54	-17.82	-	-	217	390	V
9.64667	32.35	PK2	36.8	-21.7	0	47.45	-	-	74	-26.55	0	100	H
9.64751	32.08	PK2	36.8	-21.8	0	47.08	-	-	74	-26.92	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

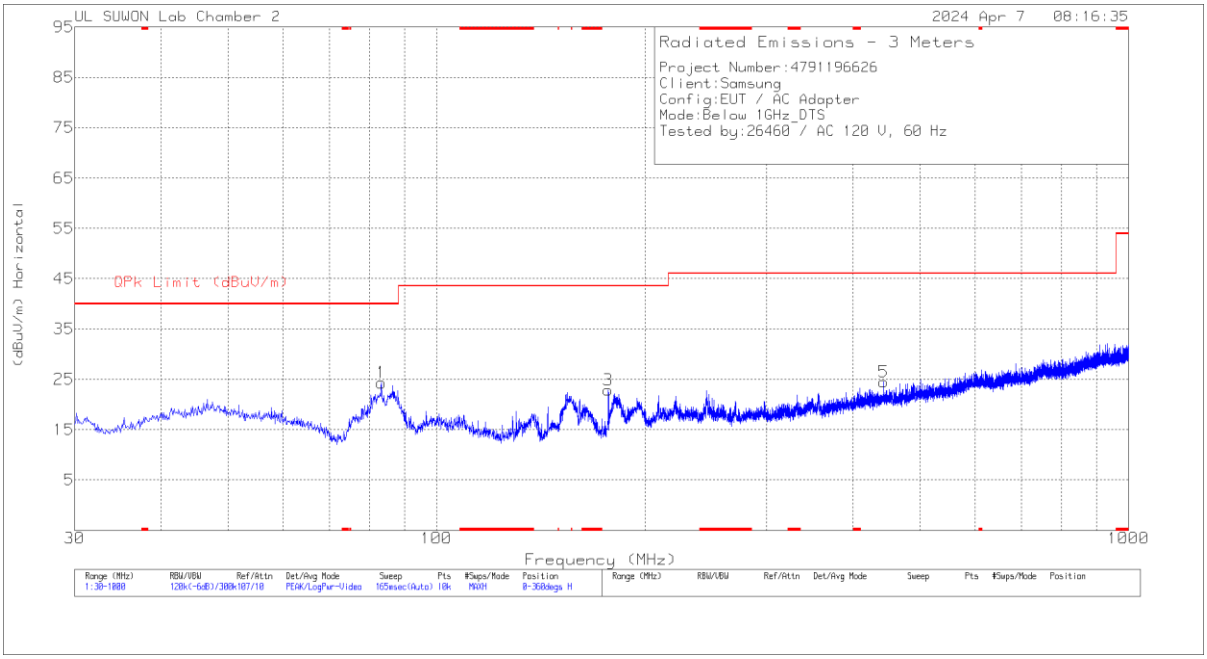
HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412 RU mode 26 Tone offset 8	MIMO	* 4.82257	39.25	PK2	34.30	-30.10	0.00	43.45	-	-	74.00	-30.55	0	100	H
		* 4.82432	38.75	PK2	34.30	-30.10	0.00	42.95	-	-	74.00	-31.05	0	100	V
		* 7.26031	38.74	PK2	35.80	-25.70	0.00	48.84	-	-	74.00	-25.16	111	174	H
		* 7.26143	25.12	MAv1	35.80	-25.70	0.00	35.22	54.00	-18.78	-	-	111	174	H
		* 7.26094	39.88	PK2	35.80	-25.70	0.00	49.98	-	-	74.00	**-24.02**	217	390	V
		* 7.26125	26.08	MAv1	35.80	-25.70	0.00	36.18	54.00	**-17.82**	-	-	217	390	V
		9.647	32.35	PK2	36.80	-21.70	0.00	47.45	-	-	74.00	-26.55	0	100	H
		9.648	32.08	PK2	36.80	-21.80	0.00	47.08	-	-	74.00	-26.92	0	100	V
2437 RU mode 26 Tone offset 8	MIMO	* 4.88187	39.58	PK2	34.20	-30.00	0.00	43.78	-	-	74.00	-30.22	0	100	H
		* 4.87614	39.38	PK2	34.20	-29.90	0.00	43.68	-	-	74.00	-30.32	0	100	V
		* 7.33489	37.75	PK2	35.80	-25.40	0.00	48.15	-	-	74.00	-25.85	197	139	H
		* 7.33617	23.68	MAv1	35.80	-25.40	0.00	34.08	54.00	-19.92	-	-	197	139	H
		* 7.33535	37.66	PK2	35.80	-25.40	0.00	48.06	-	-	74.00	-25.94	233	100	V
		* 7.3365	23.86	MAv1	35.80	-25.40	0.00	34.26	54.00	-19.74	-	-	233	100	V
		9.747	32.26	PK2	36.90	-21.60	0.00	47.56	-	-	74.00	-26.44	0	100	H
		9.749	32.01	PK2	36.90	-21.50	0.00	47.41	-	-	74.00	-26.59	0	100	V
2462 RU mode 26 Tone offset 0	MIMO	* 4.92327	39.90	PK2	34.20	-30.00	0.00	44.10	-	-	74.00	-29.90	0	100	H
		* 4.92547	39.69	PK2	34.30	-30.00	0.00	43.99	-	-	74.00	-30.01	0	100	V
		* 7.39015	34.57	PK2	35.70	-25.30	0.00	44.97	-	-	74.00	-29.03	0	100	H
		* 7.38444	34.20	PK2	35.70	-25.40	0.00	44.50	-	-	74.00	-29.50	0	100	V
		9.847	31.70	PK2	37.10	-21.40	0.00	47.40	-	-	74.00	-26.60	0	100	H
		9.847	31.20	PK2	37.10	-21.40	0.00	46.90	-	-	74.00	-27.10	0	100	V

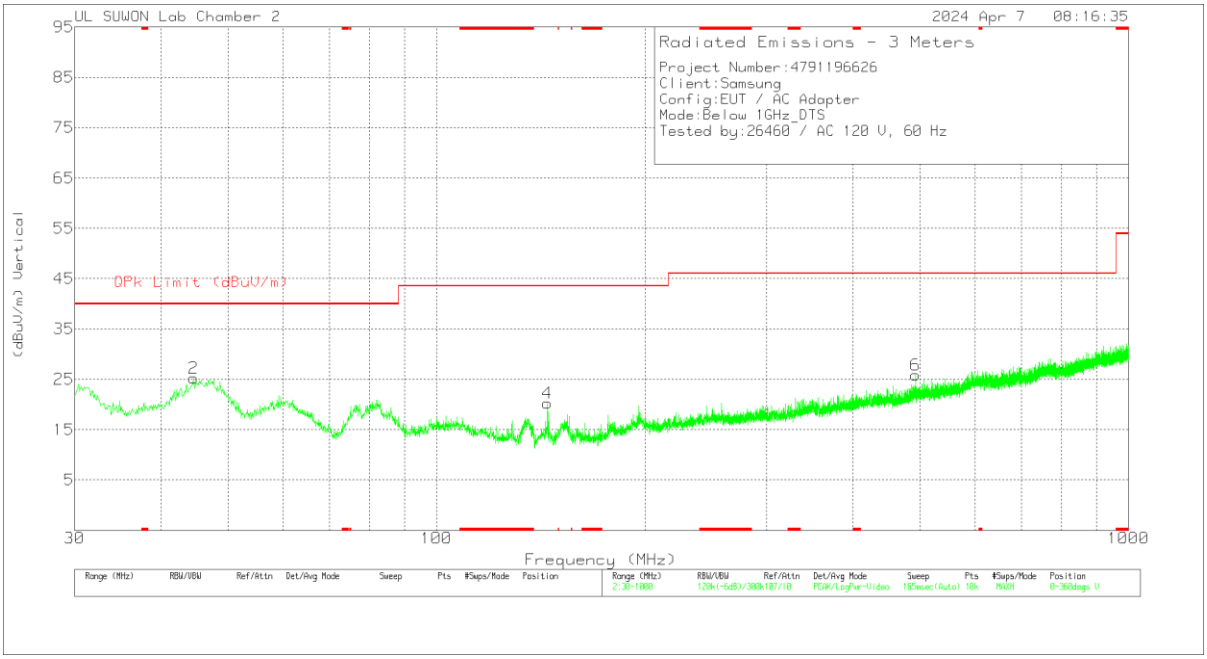
Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

UL KOREA LTD. Suwon Laboratory FORM ID: FCC_15C(05)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

10.2. WORST CASE BELOW 1 GHZ



HORIZONTAL



VERTICAL

Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_749_Factor(dB)	Below_1G_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	83.253	42.01	Pk	13.6	-31.3	0	24.31	40	-15.69	0-360	100	H
3	177.149	38.45	Pk	15.1	-30.7	0	22.85	43.52	-20.67	0-360	100	H
5	442.444	32.31	Pk	21.8	-29.6	0	24.51	46.02	-21.51	0-360	100	H
2	44.55	37.22	Pk	19.8	-31.8	0	25.22	40	-14.78	0-360	100	V
4	144.751	37.22	Pk	13.9	-30.9	0	20.22	43.52	-23.3	0-360	100	V
6	492.69	32.54	Pk	22.8	-29.5	0	25.84	46.02	-20.18	0-360	100	V

Pk - Peak detector

UL KOREA LTD. Suwon Laboratory FORM ID: FCC_15C(05)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

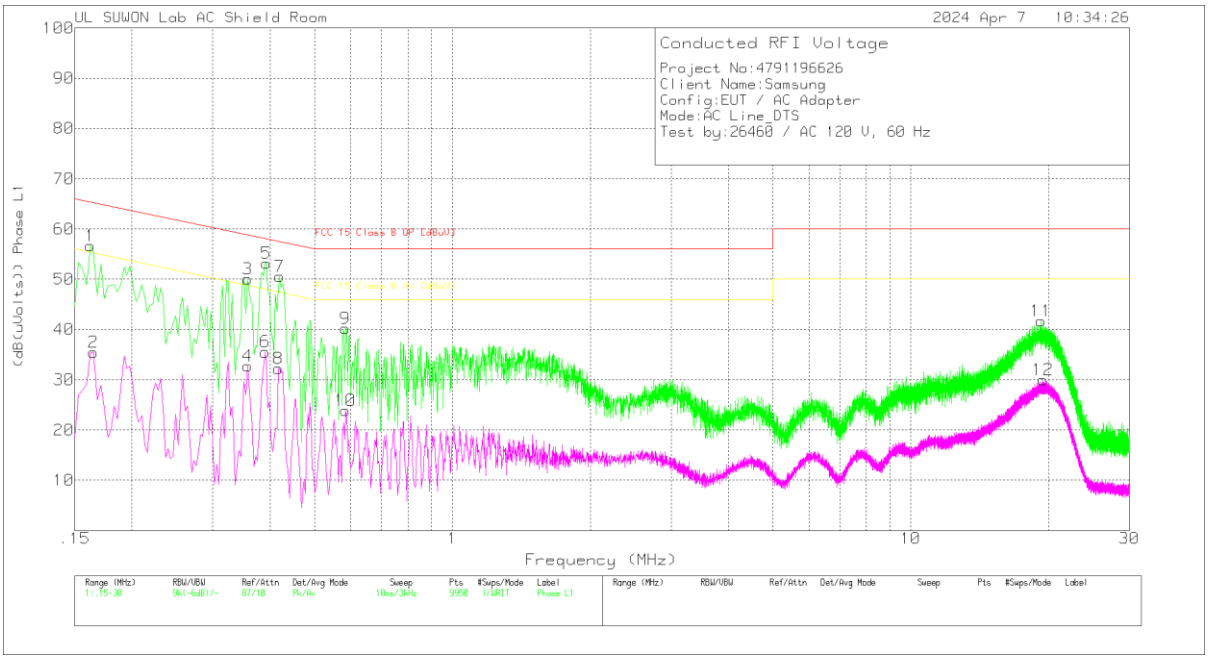
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

UL KOREA LTD. Suwon Laboratory FORM ID: FCC_15C(05)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

11.1.1. AC Power Line

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dBuVolts)	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.162	46.69	Pk	9.9	.1	56.69	65.36	-8.67	-	-
2	.165	25.53	Av	9.9	.1	35.53	-	-	55.21	-19.68
3	.357	40.14	Pk	9.8	.1	50.04	58.8	-8.76	-	-
4	.357	22.81	Av	9.8	.1	32.71	-	-	48.8	-16.09
5	.393	43.24	Pk	9.8	.1	53.14	58	-4.86	-	-
6	.39	25.64	Av	9.8	.1	35.54	-	-	48.06	-12.52
7	.42	40.7	Pk	9.8	.1	50.6	57.45	-6.85	-	-
8	.417	22.39	Av	9.8	.1	32.29	-	-	47.51	-15.22
9	.585	30.28	Pk	9.8	.1	40.18	56	-15.82	-	-
10	.585	14.03	Av	9.8	.1	23.93	-	-	46	-22.07
11	19.23	31.36	Pk	10.1	.3	41.76	60	-18.24	-	-
12	19.407	19.54	Av	10.2	.3	30.04	-	-	50	-19.96

Pk - Peak detector
Av - Average detection

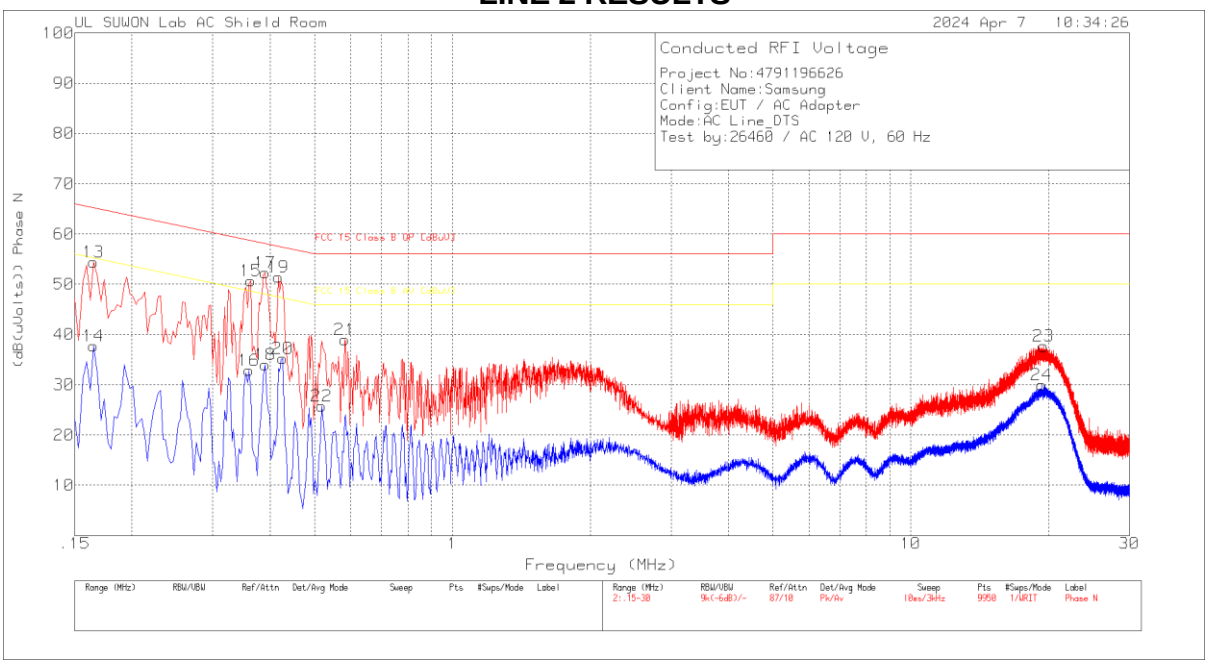
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dBuVolts)	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.16275	42.11	Qp	9.9	.1	52.11	65.32	-13.21	-	-
.35775	38.74	Qp	9.8	.1	48.64	58.78	-10.14	-	-
.39225	40.24	Qp	9.8	.1	50.14	58.02	-7.88	-	-
.42075	38.75	Qp	9.8	.1	48.65	57.43	-8.78	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N [dB]	Cable Loss [dB]	Corrected Reading (dBuVolts)	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.165	44.39	Pk	9.9	.1	54.39	65.21	-10.82	-	-
14	.165	27.73	Av	9.9	.1	37.73	-	-	55.21	-17.48
15	.363	40.82	Pk	9.8	.1	50.72	58.66	-7.94	-	-
16	.36	22.98	Av	9.8	.1	32.88	-	-	48.73	-15.85
17	.39	42.43	Pk	9.8	.1	52.33	58.06	-5.73	-	-
18	.39	24.05	Av	9.8	.1	33.95	-	-	48.06	-14.11
19	.417	41.51	Pk	9.8	.1	51.41	57.51	-6.1	-	-
20	.426	25.27	Av	9.8	.1	35.17	-	-	47.33	-12.16
21	.582	29.03	Pk	9.8	.1	38.93	56	-17.07	-	-
22	.519	15.73	Av	9.9	.1	25.73	-	-	46	-20.27
23	19.464	27.16	Pk	10.2	.3	37.66	60	-22.34	-	-
24	19.281	19.49	Av	10.2	.3	29.99	-	-	50	-20.01

Pk - Peak detector
Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N [dB]	Cable Loss [dB]	Corrected Reading (dBuVolts)	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.36225	38.06	Qp	9.8	.1	47.96	58.68	-10.72	-	-
.39015	39.9	Qp	9.8	.1	49.8	58.06	-8.26	-	-
.41775	37.02	Qp	9.8	.1	46.92	57.49	-10.57	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT

UL KOREA LTD. Suwon Laboratory FORM ID: FCC_15C(05)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433