RADIATED EMISSIONS

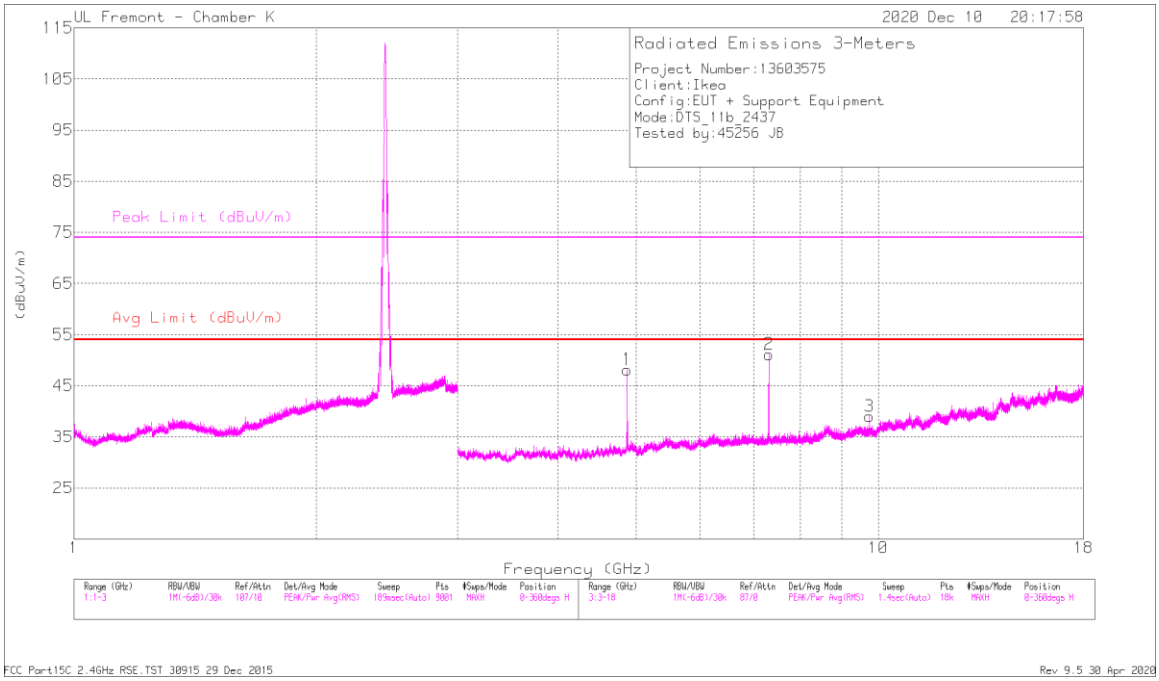
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.82399	60.01	PK2	34.4	-40.6	0	53.81	-	-	74	-20.19	219	215	H
* 4.82396	58.19	MAv1	34.4	-40.6	0	51.99	54	-2.01	-	-	219	215	H
7.23524	54.14	Pk	36.1	-38.7	0	51.54	-	-	-	-	0-360	200	H
9.64787	39.33	Pk	36.9	-36.8	0	39.43	-	-	-	-	0-360	200	H
* 4.82396	58.13	PK2	34.4	-40.6	0	51.93	-	-	74	-22.07	243	146	V
* 4.82396	55.86	MAv1	34.4	-40.6	0	49.66	54	-4.34	-	-	243	146	V
7.23524	55.57	Pk	36.1	-38.7	0	52.97	-	-	-	-	0-360	200	V
9.64787	41.78	Pk	36.9	-36.8	0	41.88	-	-	-	-	0-360	200	V

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

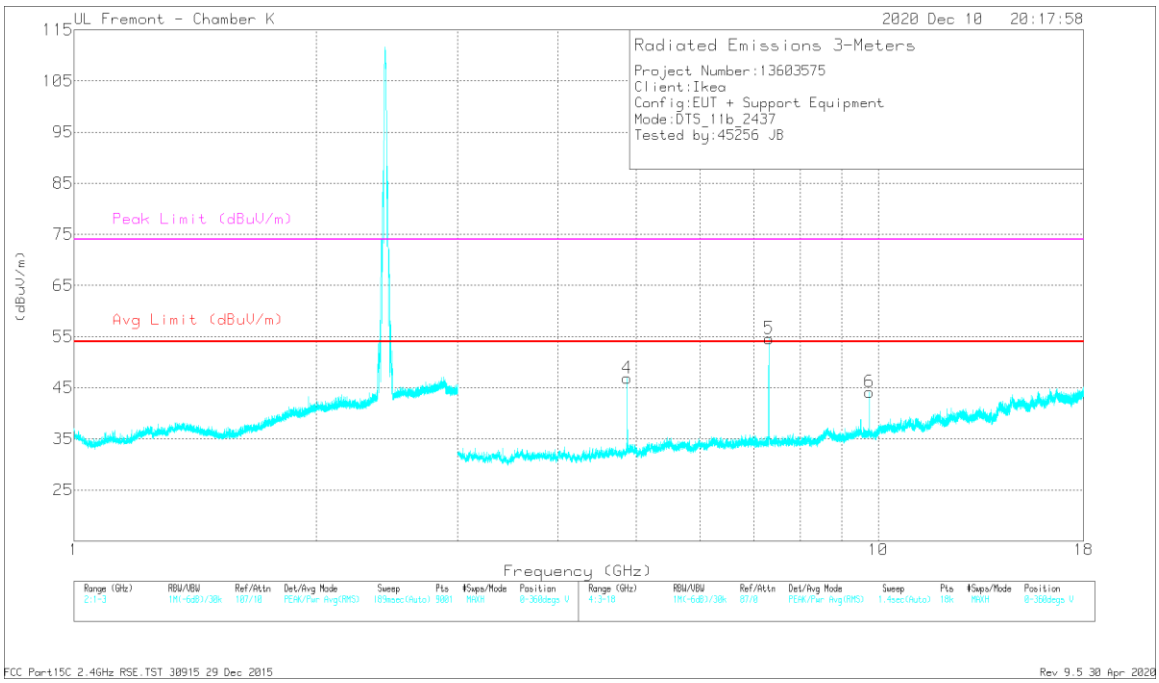
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

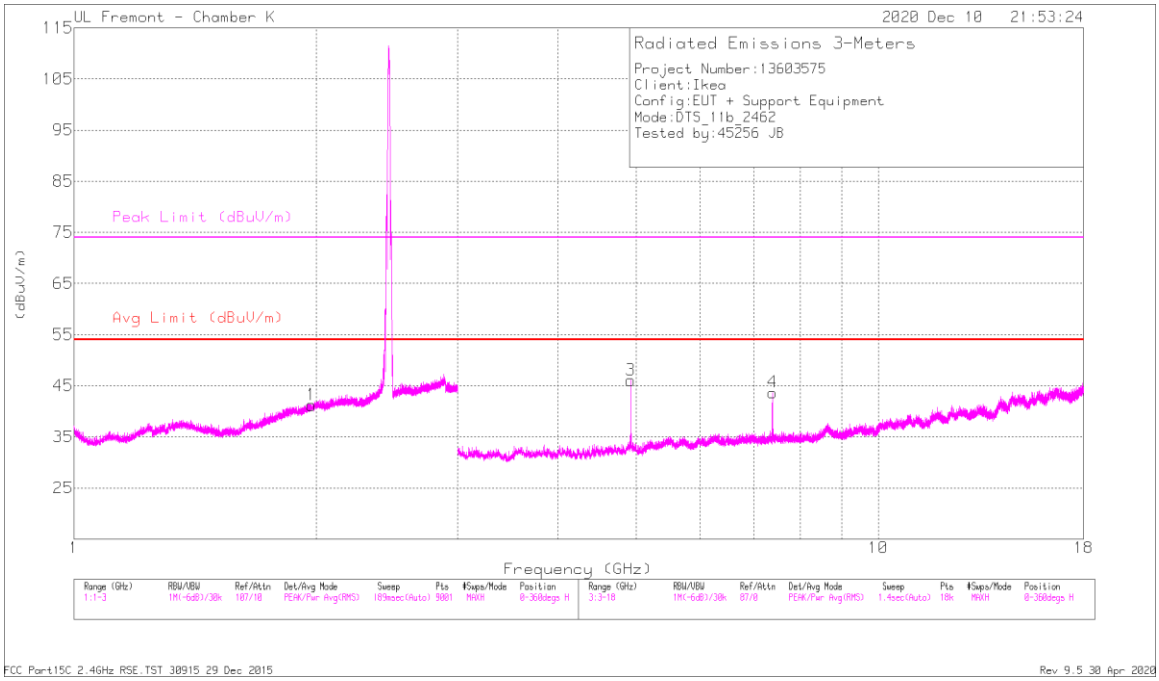
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.87391	56.4	PK2	34.4	-40.7	0	50.1	-	-	74	-23.9	343	104	H
	* 4.87396	54.06	MAv1	34.4	-40.7	0	47.76	54	-6.24	-	-	343	104	H
2	* 7.31184	58.01	PK2	36.1	-38.3	0	55.81	-	-	74	-18.19	191	109	H
	* 7.31178	54.65	MAv1	36.1	-38.3	0	52.45	54	-1.55	-	-	191	109	H
3	9.74788	38.7	Pk	37	-36.7	0	39	-	-	-	-	0-360	100	H
4	* 4.87401	54.69	PK2	34.4	-40.7	0	48.39	-	-	74	-25.61	247	139	V
	* 4.87397	51.42	MAv1	34.4	-40.7	0	45.12	54	-8.88	-	-	247	139	V
5	* 7.31182	59.38	PK2	36.1	-38.3	0	57.18	-	-	74	-16.82	240	194	V
	* 7.31175	55.64	MAv1	36.1	-38.3	0	53.44	54	-.56	-	-	240	194	V
6	9.74788	43.89	Pk	37	-36.7	0	44.19	-	-	-	-	0-360	100	V

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

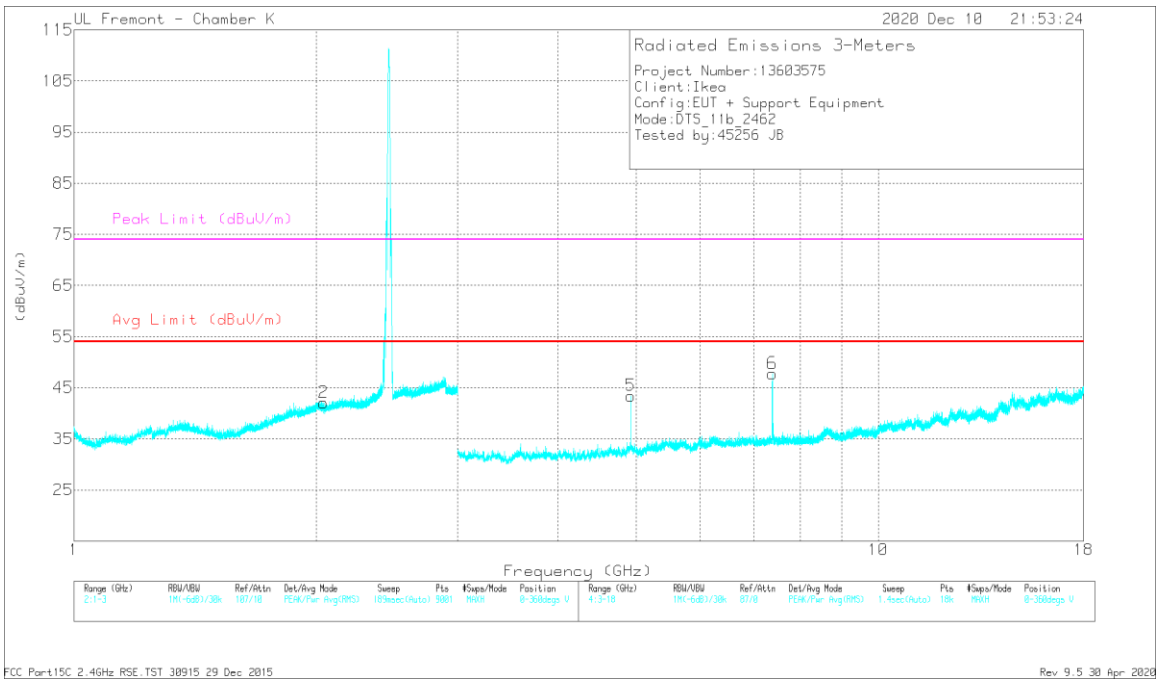
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.97355	22.42	Pk	31	-12.2	0	41.22	-	-	-	-	0-360	200	H
3	* 4.92396	55.21	PK2	34.4	-40.7	0	48.91	-	-	74	-25.09	343	98	H
	* 4.92397	51.72	MAv1	34.4	-40.7	0	45.42	54	-8.58	-	-	343	98	H
4	* 7.38683	57.18	PK2	36	-38	0	55.18	-	-	74	-18.82	30	191	H
	* 7.38674	53.21	MAv1	36	-38	0	51.21	54	-2.79	-	-	30	191	H
2	2.04311	22.78	Pk	31.3	-12	0	42.08	-	-	-	-	0-360	100	V
5	* 4.92399	53.25	PK2	34.4	-40.7	0	46.95	-	-	74	-27.05	319	224	V
	* 4.92397	48.78	MAv1	34.4	-40.7	0	42.48	54	-11.52	-	-	319	224	V
6	* 7.38619	57.49	PK2	36	-38	0	55.49	-	-	74	-18.51	121	137	V
	* 7.38641	53.47	MAv1	36	-38	0	51.47	54	-2.53	-	-	121	137	V

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

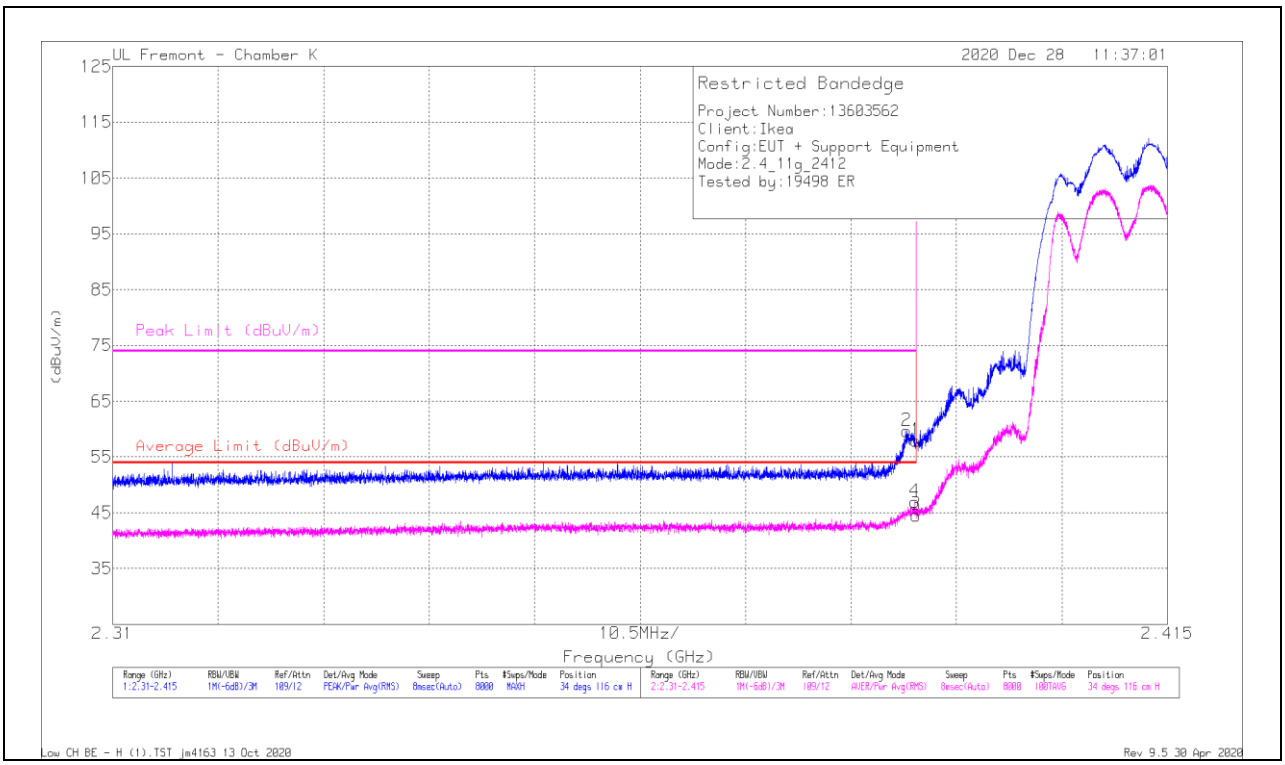
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

11.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



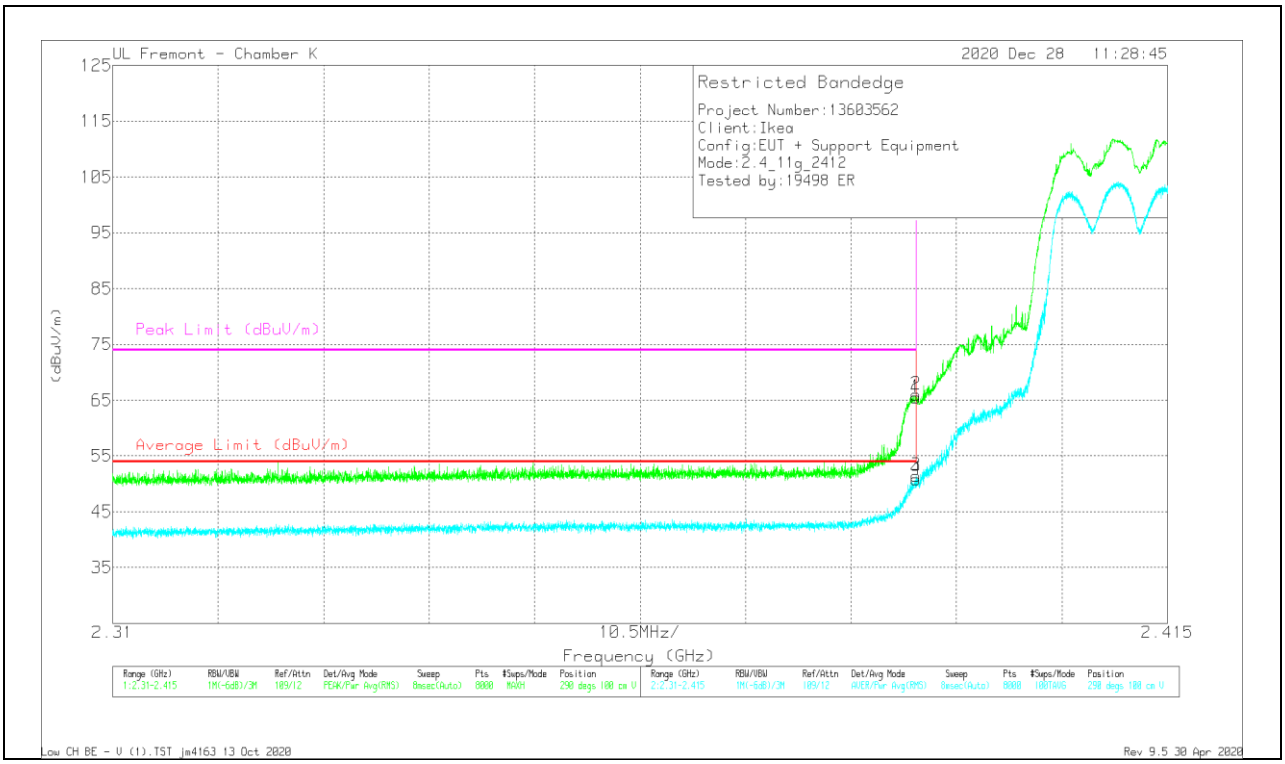
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.15	Pk	32.4	-11.6	0	57.95	-	-	74	-16.05	34	116	H
2	* 2.38904	38.9	Pk	32.4	-11.6	0	59.7	-	-	74	-14.3	34	116	H
3	* 2.39	22.55	RMS	32.4	-11.6	1.21	44.56	54	-9.44	-	-	34	116	H
4	* 2.38985	24.94	RMS	32.4	-11.6	1.21	46.95	54	-7.05	-	-	34	116	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (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	44.68	Pk	32.4	-11.6	0	65.48	-	-	74	-8.52	290	100	V
2	* 2.38996	45.17	Pk	32.4	-11.6	0	65.97	-	-	74	-8.03	290	100	V
3	* 2.39	29.42	RMS	32.4	-11.6	1.21	51.43	54	-2.57	-	-	290	100	V
4	* 2.38998	28.8	RMS	32.4	-11.6	1.21	50.81	54	-3.19	-	-	290	100	V

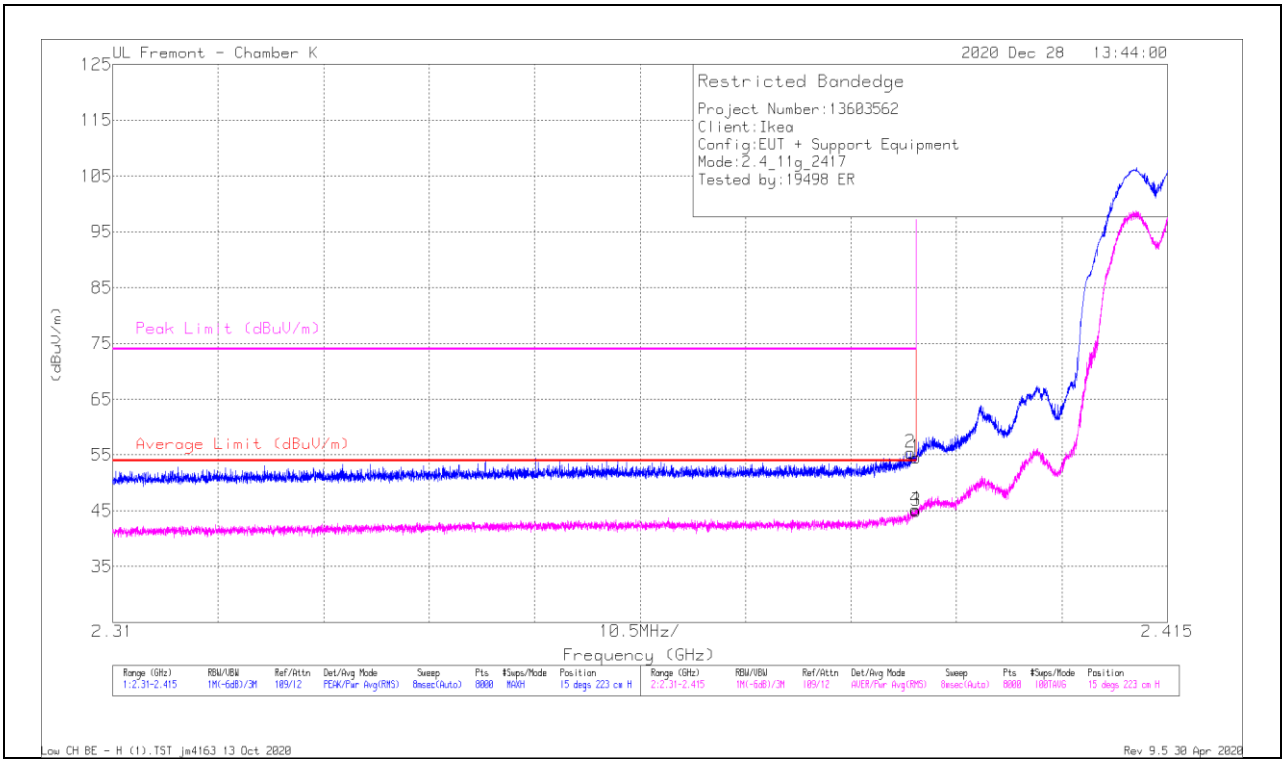
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

BANDEDGE (LOW CHANNEL, CH 2)

HORIZONTAL RESULT



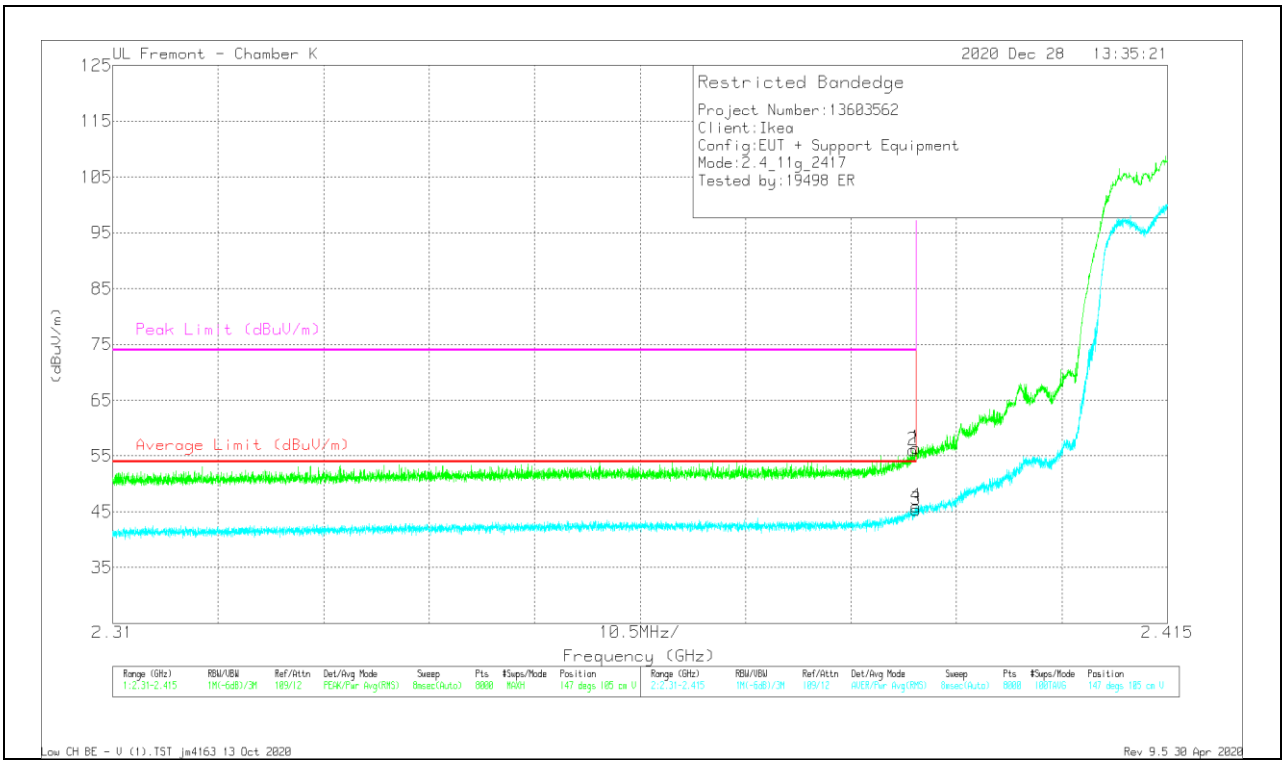
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	33.74	Pk	32.4	-11.6	0	54.54	-	-	74	-19.46	15	223	H
2	* 2.38942	34.68	Pk	32.4	-11.6	0	55.48	-	-	74	-18.52	15	223	H
3	* 2.39	22.98	RMS	32.4	-11.6	1.21	44.99	54	-9.01	-	-	15	223	H
4	* 2.38993	23.2	RMS	32.4	-11.6	1.21	45.21	54	-8.79	-	-	15	223	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (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	35.6	Pk	32.4	-11.6	0	56.4	-	-	74	-17.6	147	105	V
2	* 2.38968	35.26	Pk	32.4	-11.6	0	56.06	-	-	74	-17.94	147	105	V
3	* 2.39	23.36	RMS	32.4	-11.6	1.21	45.37	54	-8.63	-	-	147	105	V
4	* 2.38998	23.98	RMS	32.4	-11.6	1.21	45.99	54	-8.01	-	-	147	105	V

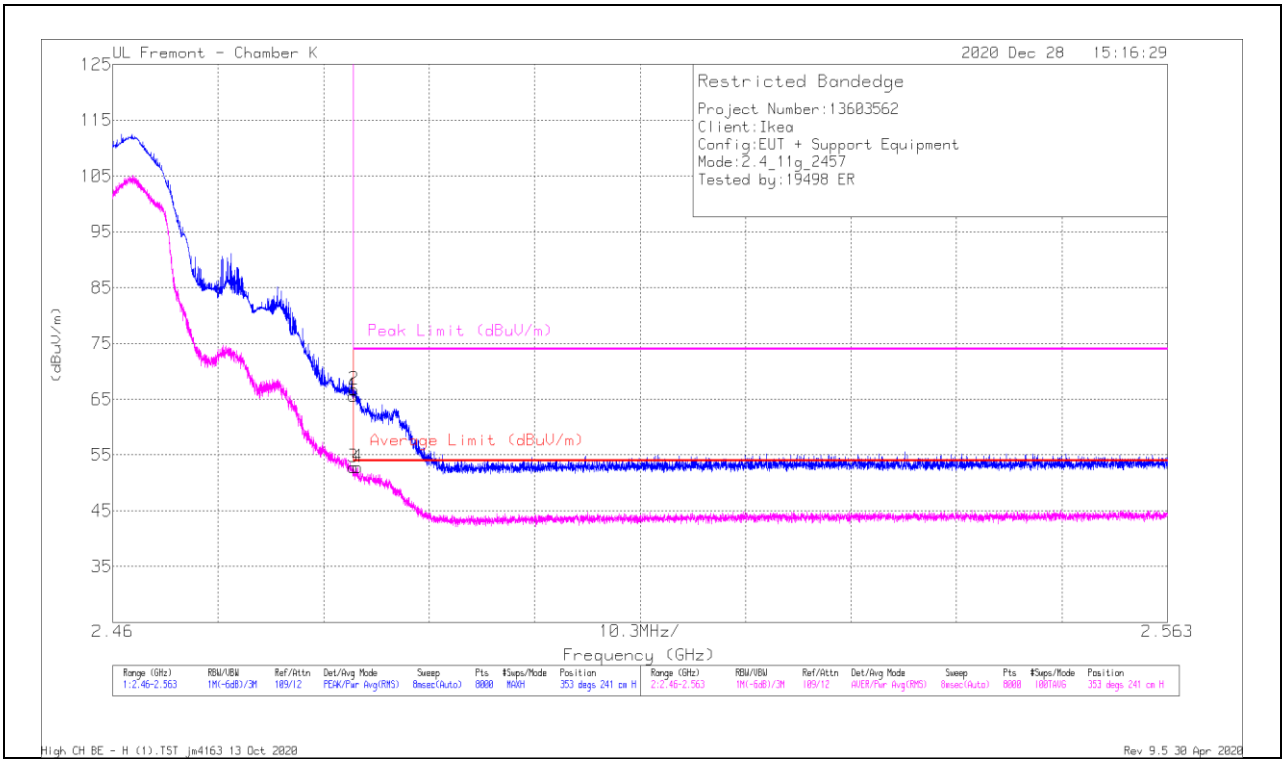
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

BANDEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT



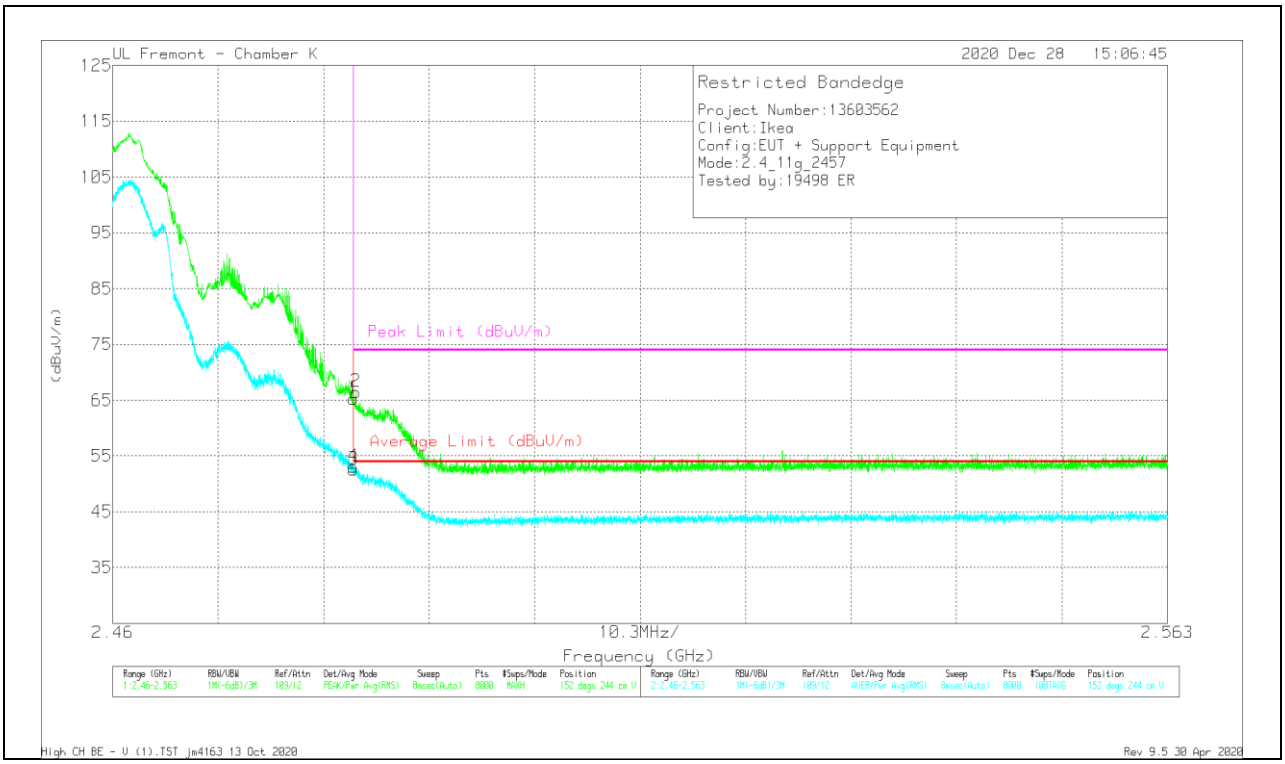
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	44.31	Pk	32.5	-11.2	0	65.61	-	-	74	-8.39	353	241	H
2	*2.48354	45.45	Pk	32.5	-11.2	0	66.75	-	-	74	-7.25	353	241	H
3	*2.4835	30.26	RMS	32.5	-11.2	1.21	52.77	54	-1.23	-	-	353	241	H
4	*2.4839	30.27	RMS	32.5	-11.2	1.21	52.78	54	-1.22	-	-	353	241	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (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	43.92	Pk	32.5	-11.2	0	65.22	-	-	74	-8.78	152	244	V
2	* 2.48376	45.18	Pk	32.5	-11.2	0	66.48	-	-	74	-7.52	152	244	V
3	* 2.4835	30.01	RMS	32.5	-11.2	1.21	52.52	54	-1.48	-	-	152	244	V
4	* 2.48353	30.56	RMS	32.5	-11.2	1.21	53.07	54	-.93	-	-	152	244	V

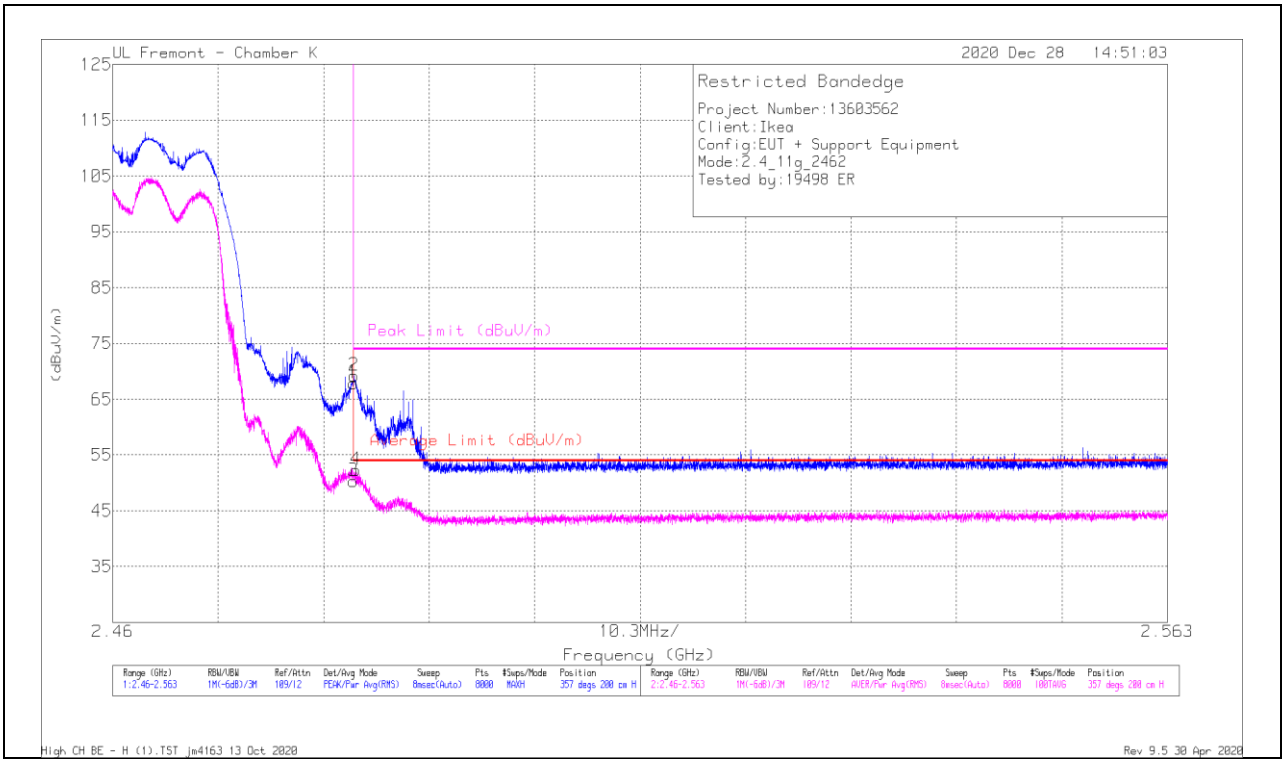
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



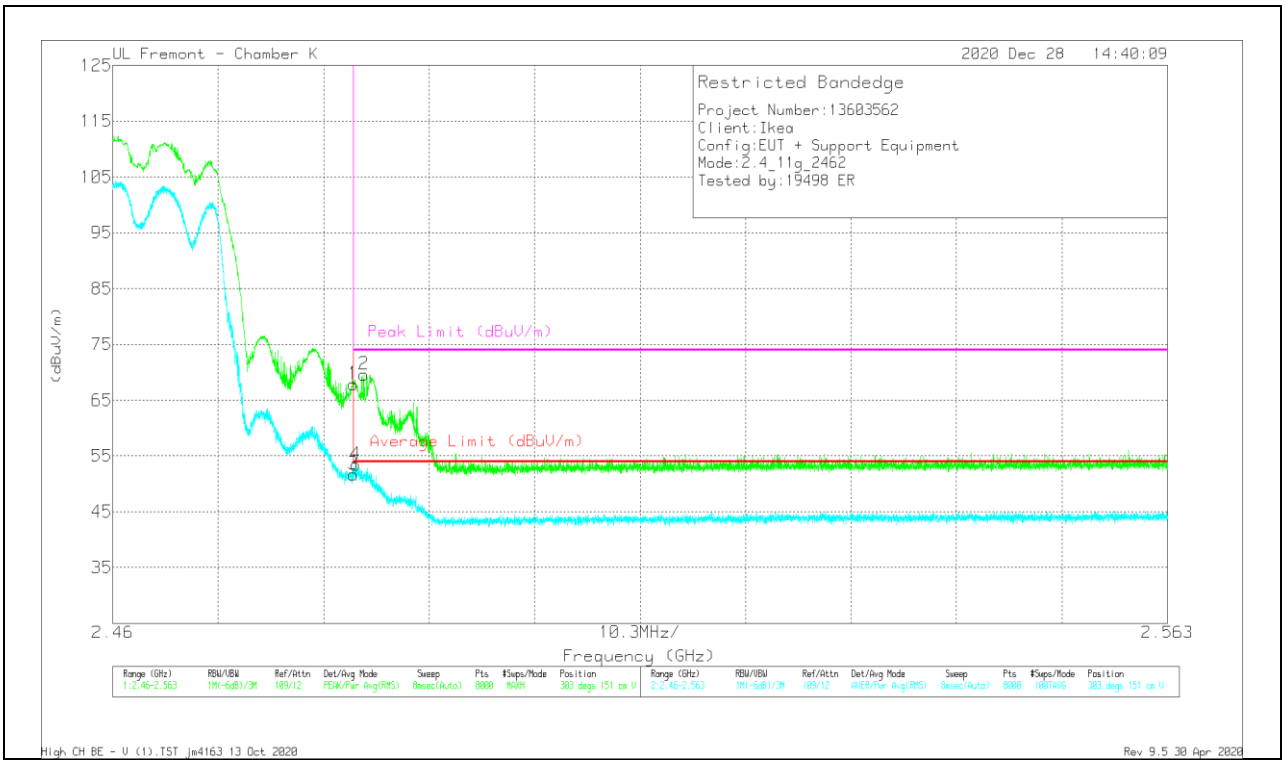
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	46.59	Pk	32.5	-11.2	0	67.89	-	-	74	-6.11	357	200	H
2	* 2.48354	47.91	Pk	32.5	-11.2	0	69.21	-	-	74	-4.79	357	200	H
3	* 2.4835	27.87	RMS	32.5	-11.2	1.21	50.38	54	-3.62	-	-	357	200	H
4	* 2.48373	29.82	RMS	32.5	-11.2	1.21	52.33	54	-1.67	-	-	357	200	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (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	46.54	Pk	32.5	-11.2	0	67.84	-	-	74	-6.16	303	151	V
2	* 2.48453	48.3	Pk	32.5	-11.2	0	69.6	-	-	74	-4.4	303	151	V
3	* 2.4835	29.21	RMS	32.5	-11.2	1.21	51.72	54	-2.28	-	-	303	151	V
4	* 2.48373	30.95	RMS	32.5	-11.2	1.21	53.46	54	-.54	-	-	303	151	V

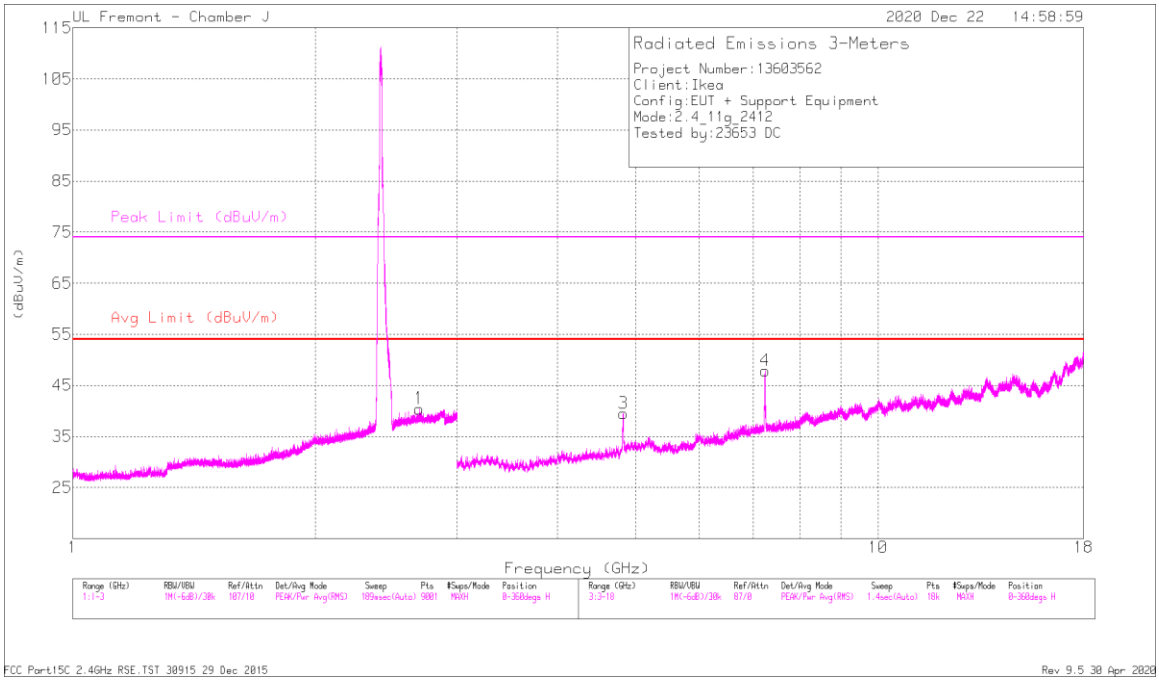
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

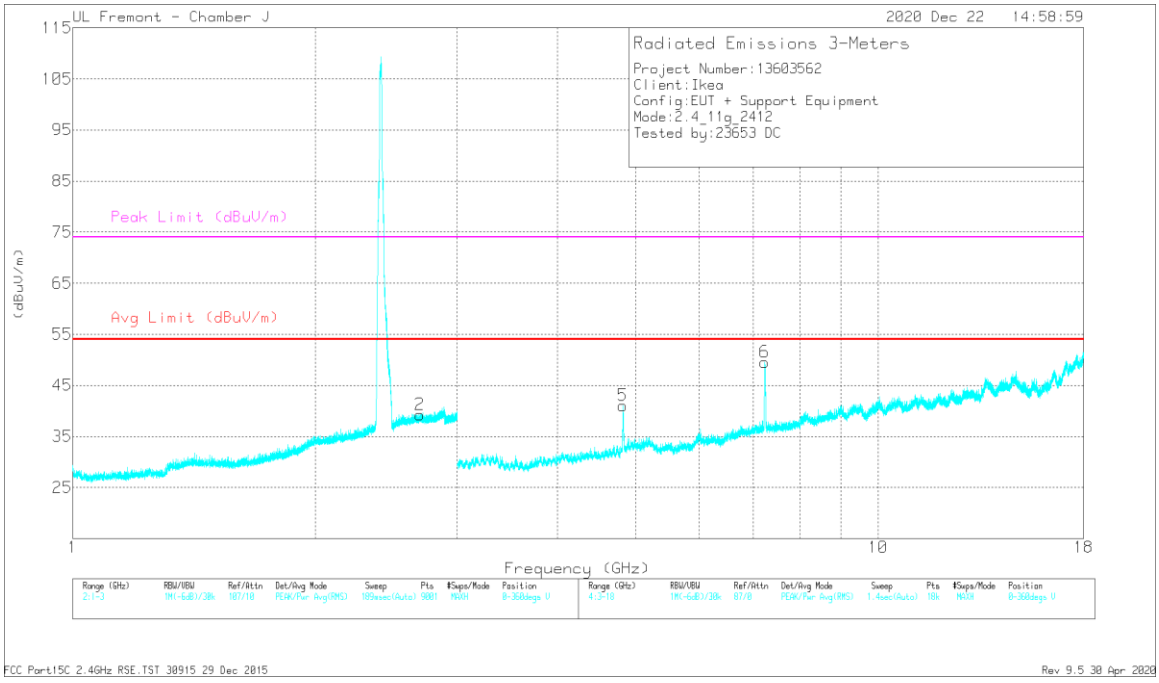
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

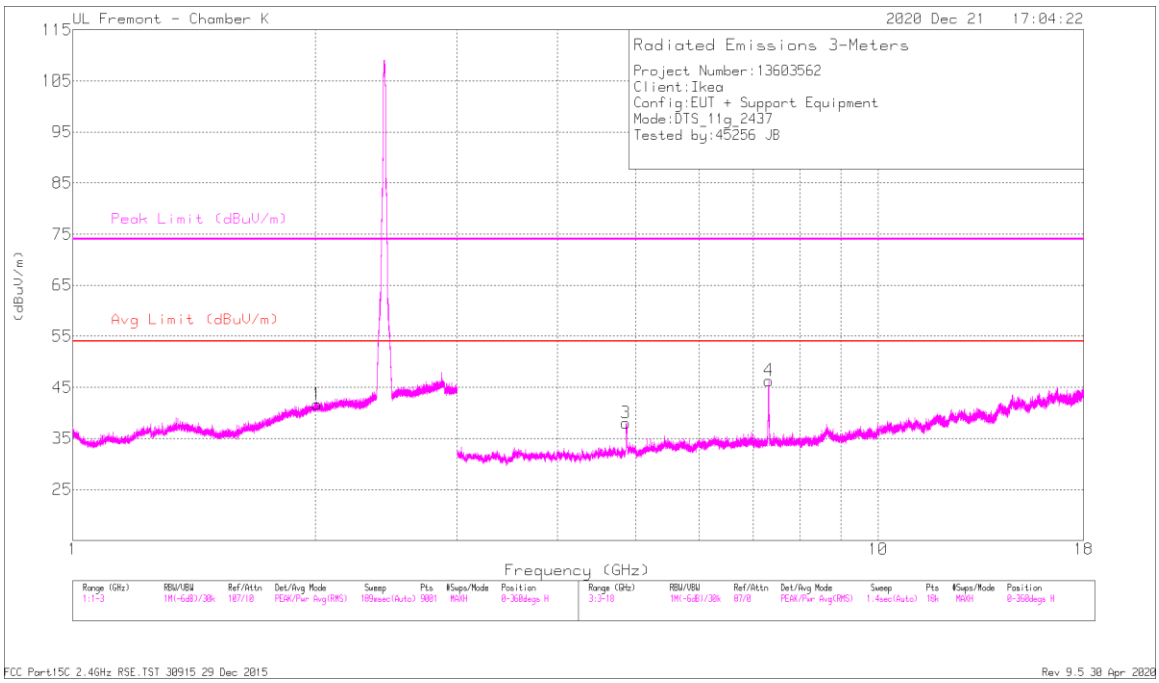
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T963 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.69721	29.72	PK2	29.7	-13.5	0	45.92	-	-	74	-28.08	256	182	H
	* 2.69688	18.11	MAv1	29.7	-13.5	1.21	35.52	54	-18.48	-	-	256	182	H
3	* 4.82689	46.99	PK2	33.3	-30.8	0	49.49	-	-	74	-24.51	69	205	H
	* 4.82606	35.37	MAv1	33.3	-30.8	1.21	39.08	54	-14.92	-	-	69	205	H
4	7.23727	46.23	PK2	37.1	-26.6	0	56.73	-	-	-	-	277	102	H
2	* 2.69618	29.46	PK2	29.7	-13.5	0	45.66	-	-	74	-28.34	240	215	V
	* 2.6981	18.05	MAv1	29.7	-13.5	1.21	35.46	54	-18.54	-	-	240	215	V
5	* 4.82481	48.53	PK2	33.3	-30.8	0	51.03	-	-	74	-22.97	33	102	V
	* 4.82439	35.33	MAv1	33.3	-30.8	1.21	39.04	54	-14.96	-	-	33	102	V
6	7.23326	49.54	PK2	37.1	-26.7	0	59.94	-	-	-	-	213	174	V

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

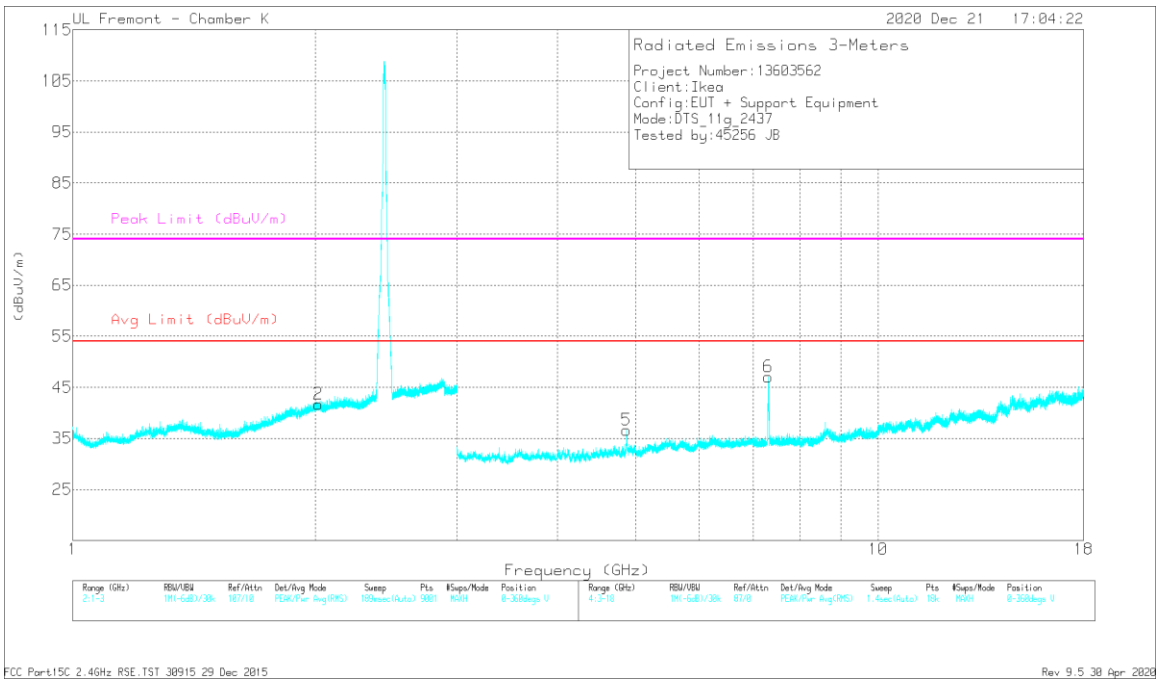
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

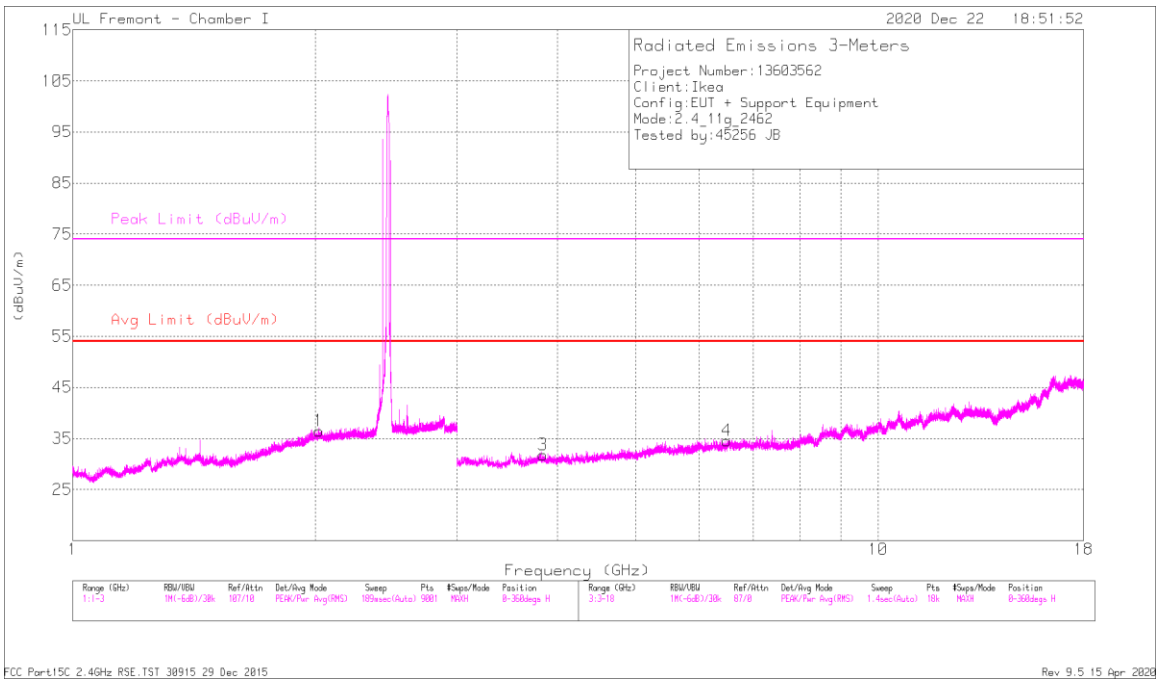
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.01089	22.44	Pk	31.3	-12	0	41.74	-	-	-	-	0-360	199	H
3	* 4.86841	53.35	PK2	34.3	-40.6	0	47.05	-	-	74	-26.95	154	229	H
	* 4.86782	40.08	MAv1	34.3	-40.6	1.21	34.99	54	-19.01	-	-	154	229	H
4	* 7.31518	60.3	PK2	36	-38.3	0	58	-	-	74	-16	323	238	H
	* 7.31472	44.92	MAv1	36	-38.3	1.21	43.83	54	-10.17	-	-	323	238	H
2	2.01755	22.39	Pk	31.3	-12	0	41.69	-	-	-	-	0-360	199	V
5	* 4.86999	52.77	PK2	34.3	-40.7	0	46.37	-	-	74	-27.63	144	96	V
	* 4.86975	39.81	MAv1	34.3	-40.7	1.21	34.62	54	-19.38	-	-	144	96	V
6	* 7.31002	56.66	PK2	36.1	-38.3	0	54.46	-	-	74	-19.54	265	110	V
	* 7.31024	42.86	MAv1	36.1	-38.3	1.21	41.87	54	-12.13	-	-	265	110	V

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

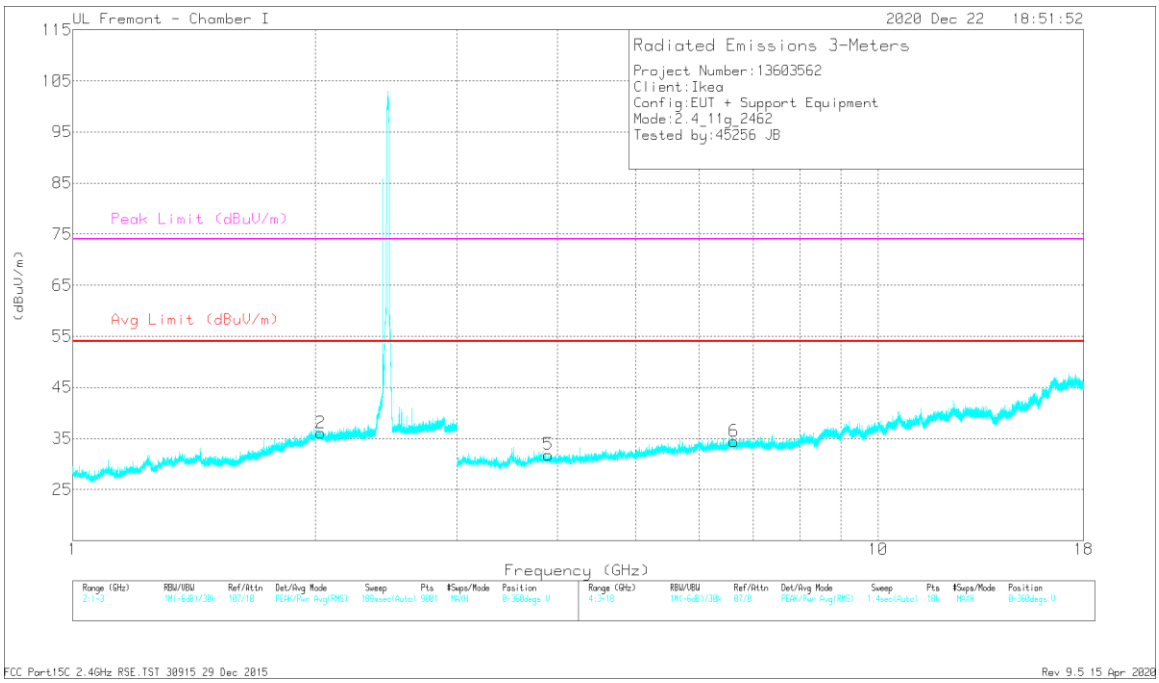
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.02178	23.17	Pk	31.5	-18.2	0	36.47	-	-	-	-	0-360	101	H
3	* 3.83328	32.97	PK2	33.6	-28.2	0	38.37	-	-	74	-35.63	279	118	H
	* 3.83486	21.33	MAv1	33.6	-28.2	1.21	27.94	54	-26.06	-	-	279	118	H
4	6.49436	24.03	Pk	35.6	-25.1	0	34.53	-	-	-	-	0-360	101	H
2	2.03133	22.89	Pk	31.4	-18.2	0	36.09	-	-	-	-	0-360	200	V
5	* 3.90074	35.51	PK2	33.7	-28.7	0	40.51	-	-	74	-33.49	152	273	V
	* 3.90118	23.65	MAv1	33.7	-28.7	1.21	29.86	54	-24.14	-	-	152	273	V
6	6.61937	23.88	Pk	35.8	-25.2	0	34.48	-	-	-	-	0-360	200	V

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

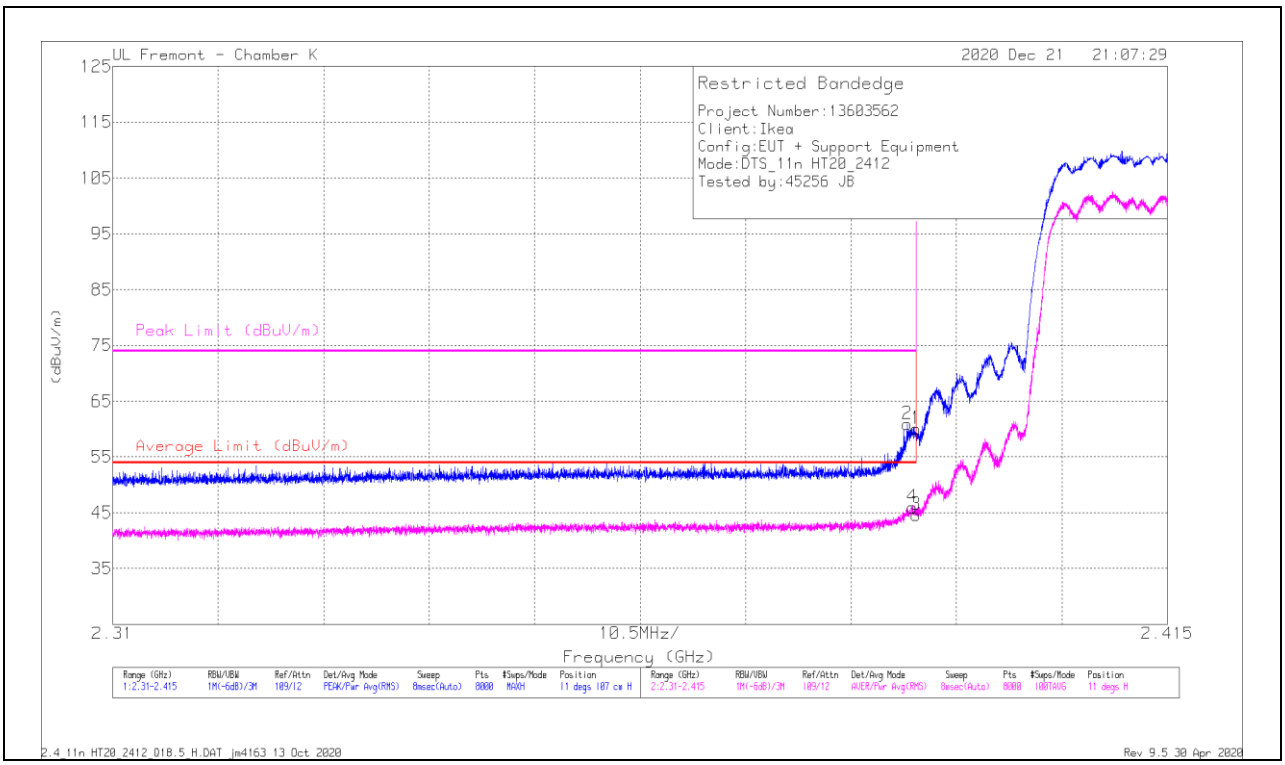
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

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

2TX Antenna 1 + Antenna 2 CDD MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



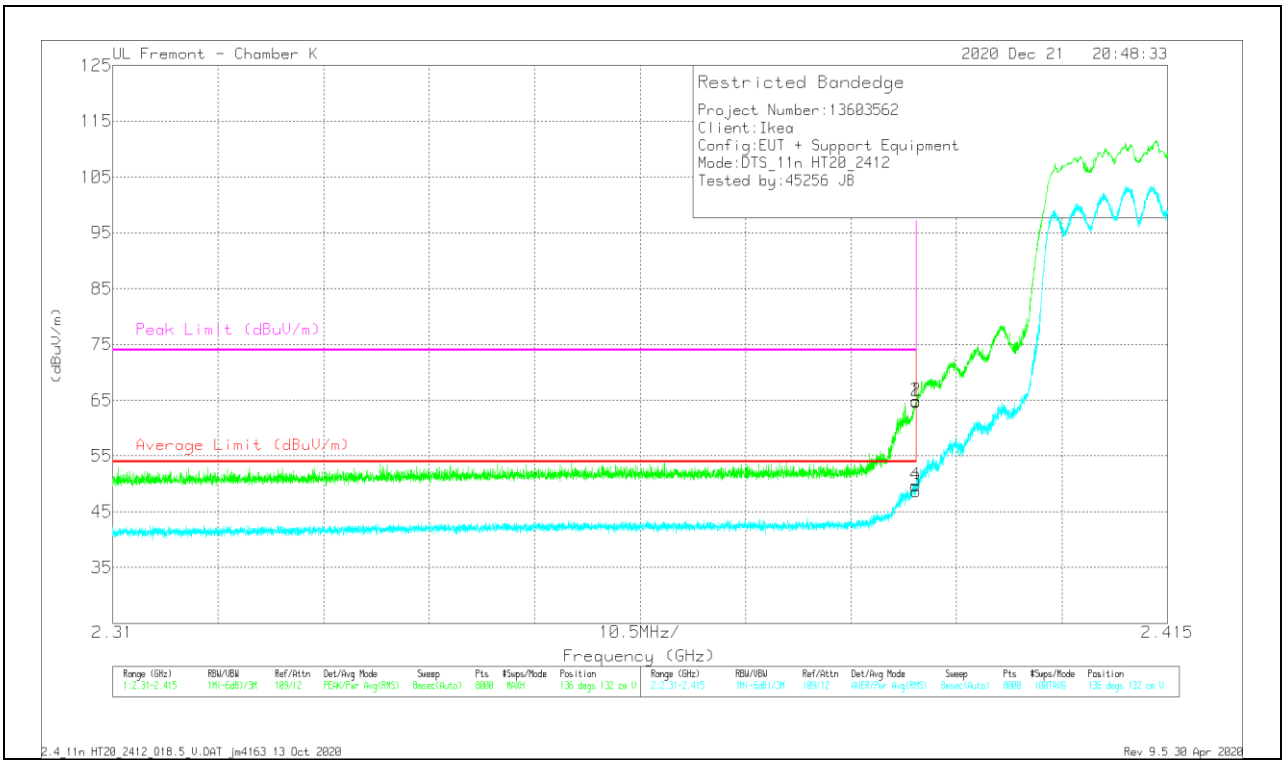
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.22	Pk	32.4	-11.6	0	60.02	-	-	74	-13.98	11	107	H
2	* 2.38908	40.1	Pk	32.4	-11.6	0	60.9	-	-	74	-13.1	11	107	H
3	* 2.39	22.89	RMS	32.4	-11.6	0.96	44.65	54	-9.35	-	-	11	107	H
4	* 2.3896	24.3	RMS	32.4	-11.6	0.96	46.06	54	-7.94	-	-	11	107	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (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	Pk	32.4	-11.6	0	64.8	-	-	74	-9.2	136	132	V
2	* 2.38998	44.06	Pk	32.4	-11.6	0	64.86	-	-	74	-9.14	136	132	V
3	* 2.39	27.1	RMS	32.4	-11.6	0.96	48.86	54	-5.14	-	-	136	132	V
4	* 2.38992	27.98	RMS	32.4	-11.6	0.96	49.74	54	-4.26	-	-	136	132	V

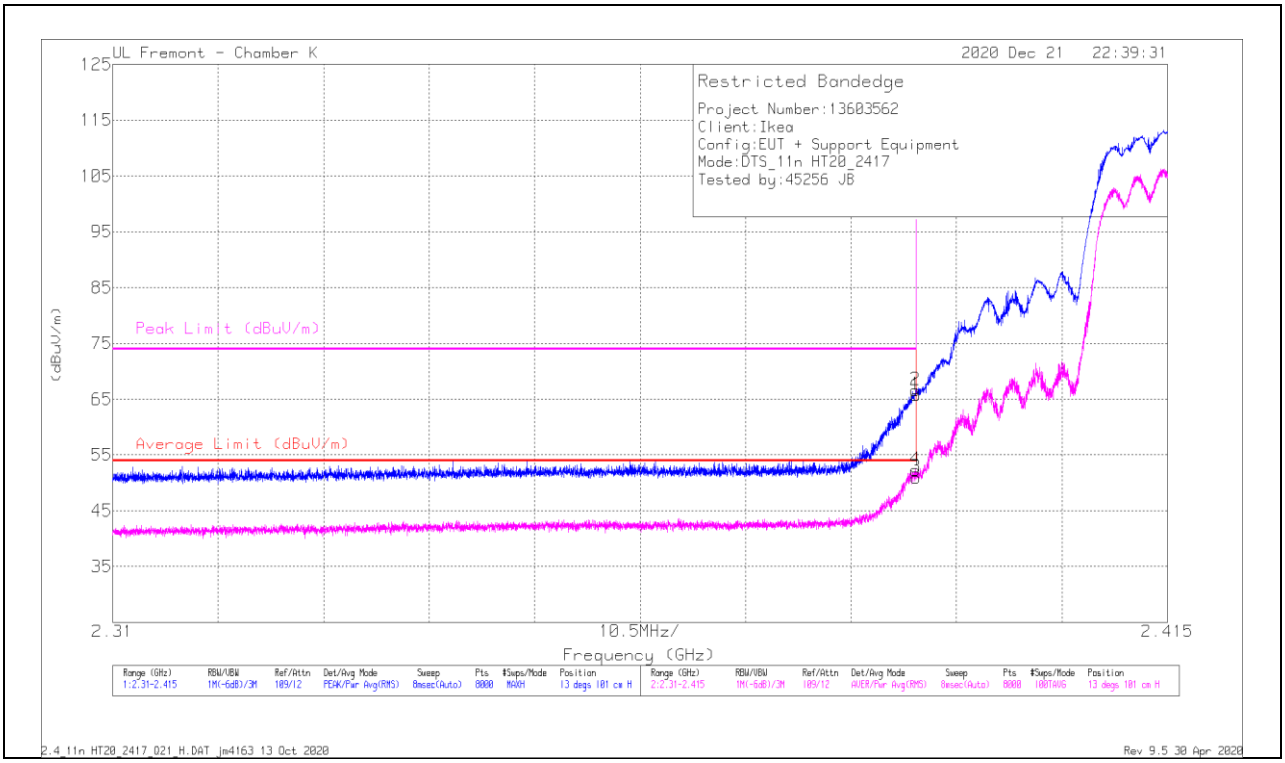
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

BANDEDGE (LOW CHANNEL, CH 2)

HORIZONTAL RESULT



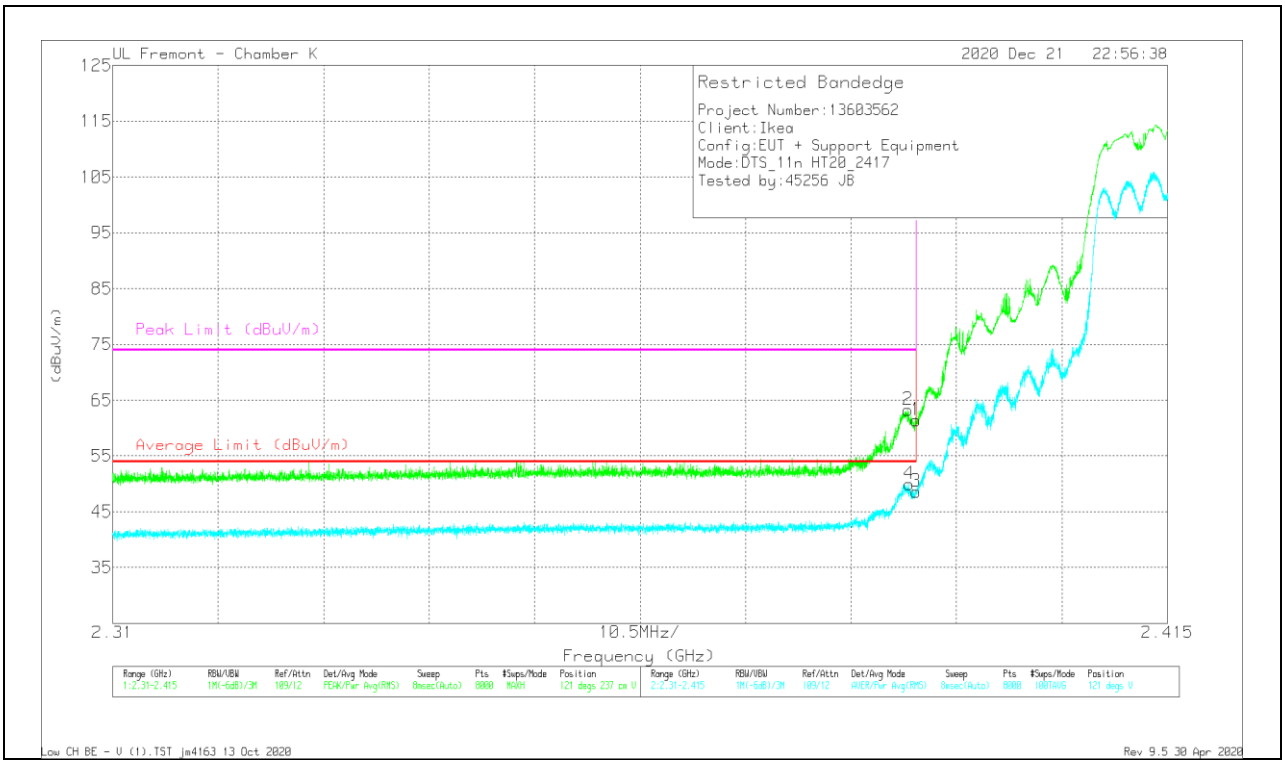
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.97	Pk	32.4	-11.6	0	65.77	-	-	74	-8.23	13	101	H
2	* 2.38993	45.79	Pk	32.4	-11.6	0	66.59	-	-	74	-7.41	13	101	H
3	* 2.39	29.28	RMS	32.4	-11.6	0.96	51.04	54	-2.96	-	-	13	101	H
4	* 2.38989	30.61	RMS	32.4	-11.6	0.96	52.37	54	-1.63	-	-	13	101	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (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	40.64	Pk	32.4	-11.6	0	61.44	-	-	74	-12.56	121	237	V
2	* 2.38916	42.45	Pk	32.4	-11.6	0	63.25	-	-	74	-10.75	121	237	V
3	* 2.39	26.9	RMS	32.4	-11.6	0.96	48.66	54	-5.34	-	-	121	237	V
4	* 2.38927	28.23	RMS	32.4	-11.6	0.96	49.99	54	-4.01	-	-	121	237	V

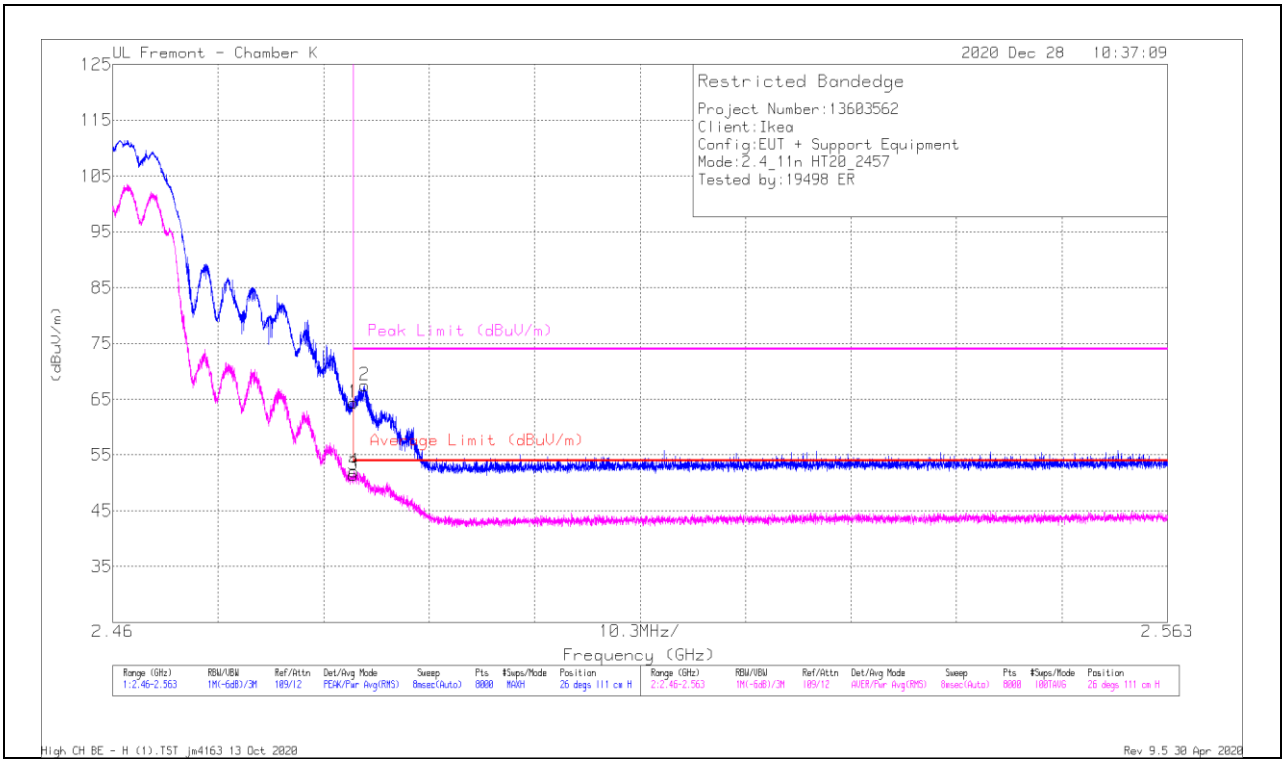
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

BANDEDGE (HIGH CHANNEL, CH 10)

HORIZONTAL RESULT



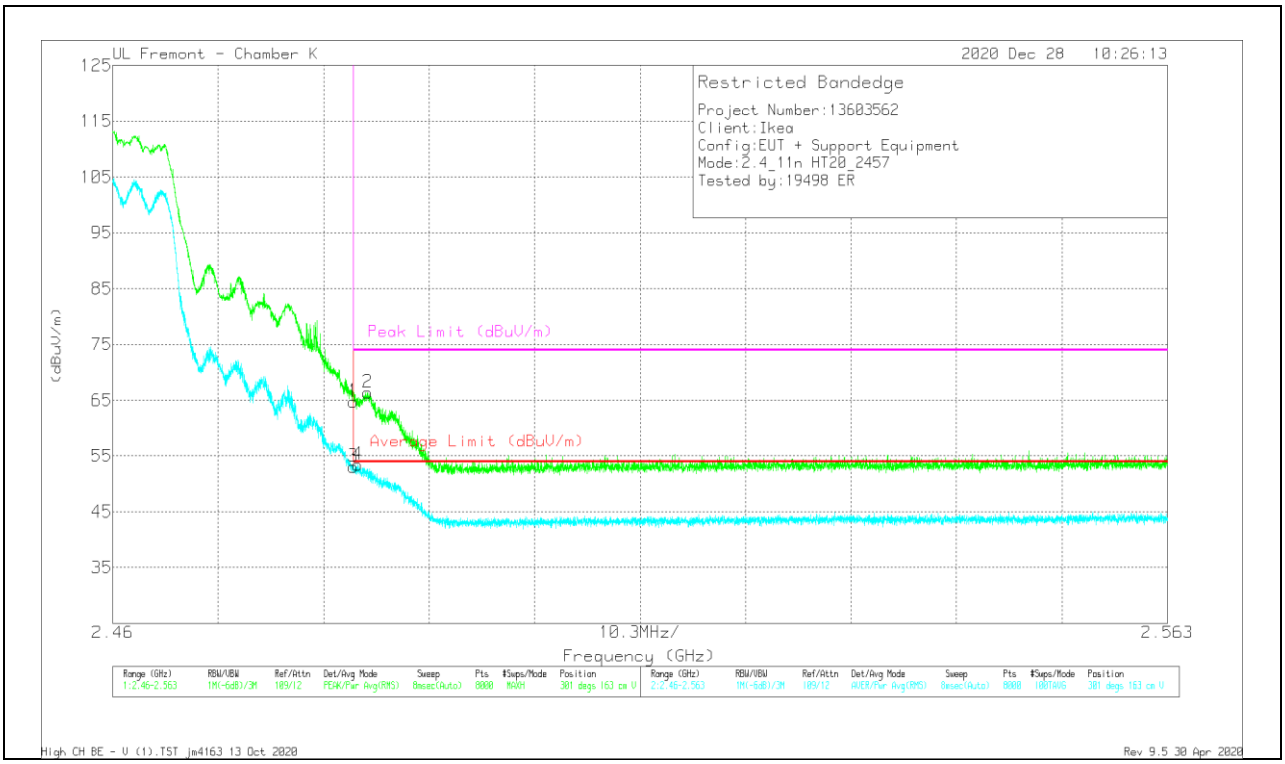
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	43.13	Pk	32.5	-11.2	0	64.43	-	-	74	-9.57	26	111	H
2	* 2.48461	46.15	Pk	32.5	-11.2	0	67.45	-	-	74	-6.55	26	111	H
3	* 2.4835	29.23	RMS	32.5	-11.2	0.96	51.49	54	-2.51	-	-	26	111	H
4	* 2.48358	29.92	RMS	32.5	-11.2	0.96	52.18	54	-1.82	-	-	26	111	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (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	43.51	Pk	32.5	-11.2	0	64.81	-	-	74	-9.19	301	163	V
2	* 2.4849	45.12	Pk	32.5	-11.2	0	66.42	-	-	74	-7.58	301	163	V
3	* 2.4835	30.92	RMS	32.5	-11.2	0.96	53.18	54	-0.82	-	-	301	163	V
4	* 2.48393	31.25	RMS	32.5	-11.2	0.96	53.51	54	-0.49	-	-	301	163	V

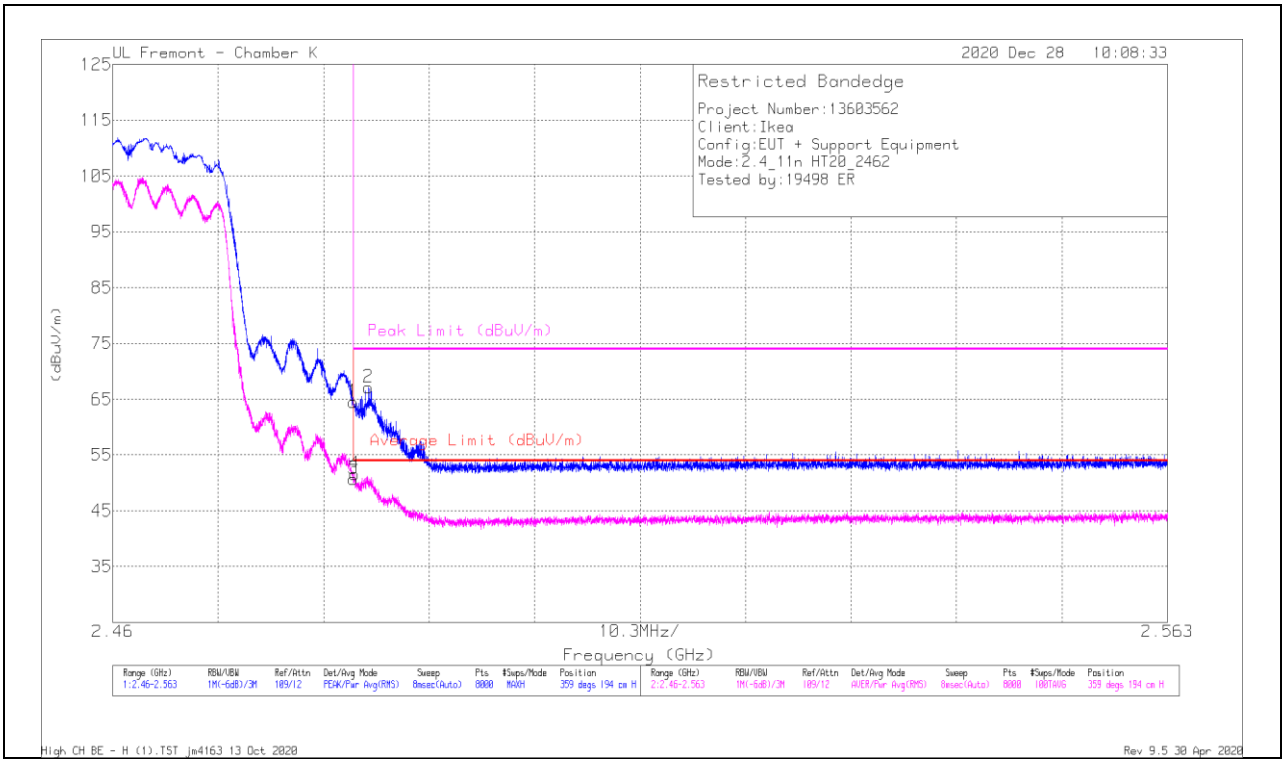
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



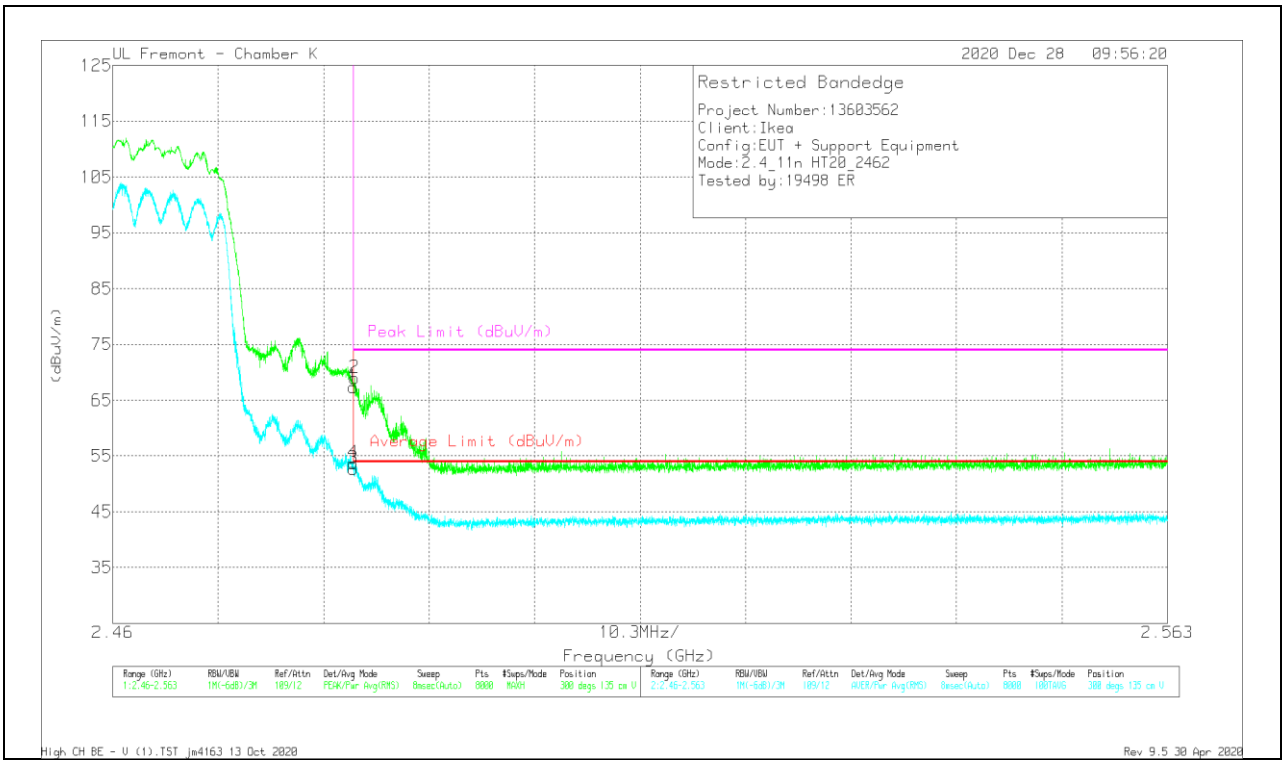
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	43.17	Pk	32.5	-11.2	0	64.47	-	-	74	-9.53	359	194	H
2	* 2.48498	45.85	Pk	32.5	-11.2	0	67.15	-	-	74	-6.85	359	194	H
3	* 2.4835	28.51	RMS	32.5	-11.2	0.96	50.77	54	-3.23	-	-	359	194	H
4	* 2.48362	29.36	RMS	32.5	-11.2	0.96	51.62	54	-2.38	-	-	359	194	H

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (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	46.06	Pk	32.5	-11.2	0	67.36	-	-	74	-6.64	300	135	V
2	* 2.48363	47.71	Pk	32.5	-11.2	0	69.01	-	-	74	-4.99	300	135	V
3	* 2.4835	30.54	RMS	32.5	-11.2	0.96	52.8	54	-1.2	-	-	300	135	V
4	* 2.48353	31.57	RMS	32.5	-11.2	0.96	53.83	54	-0.17	-	-	300	135	V

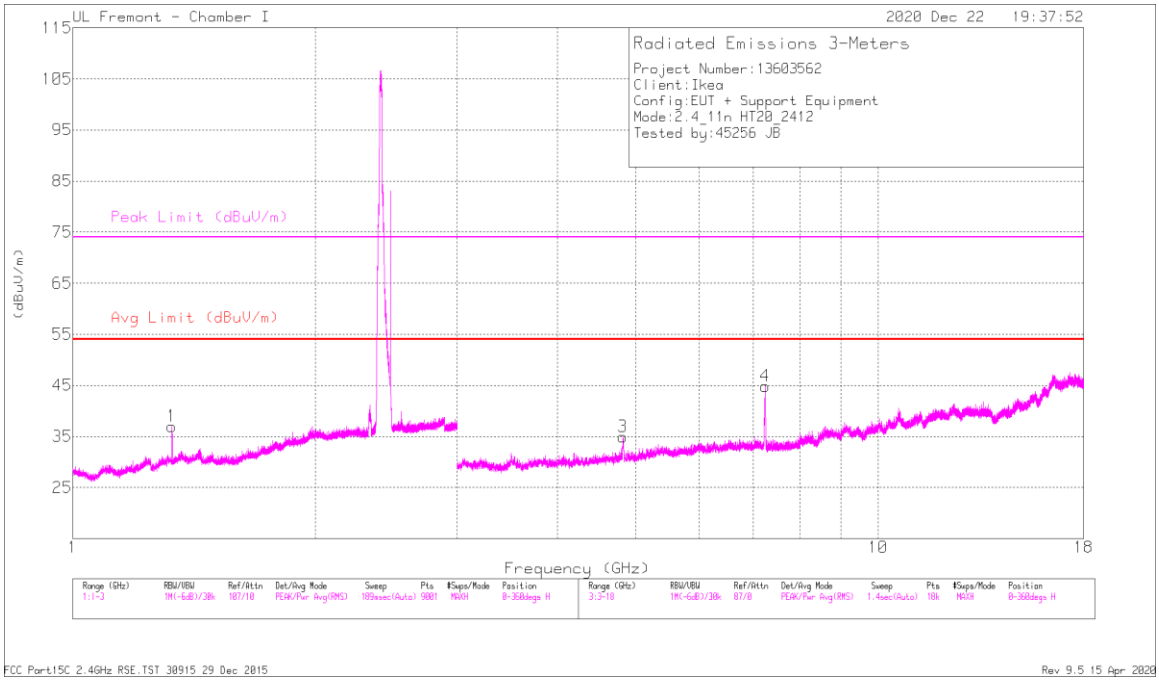
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

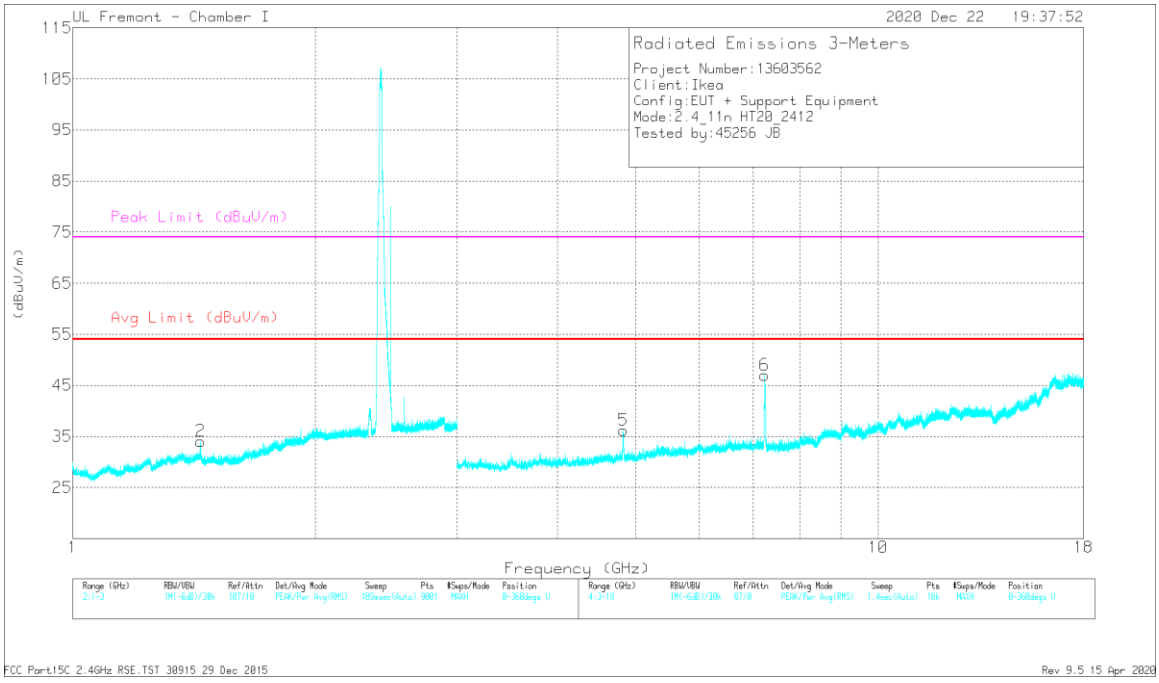
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

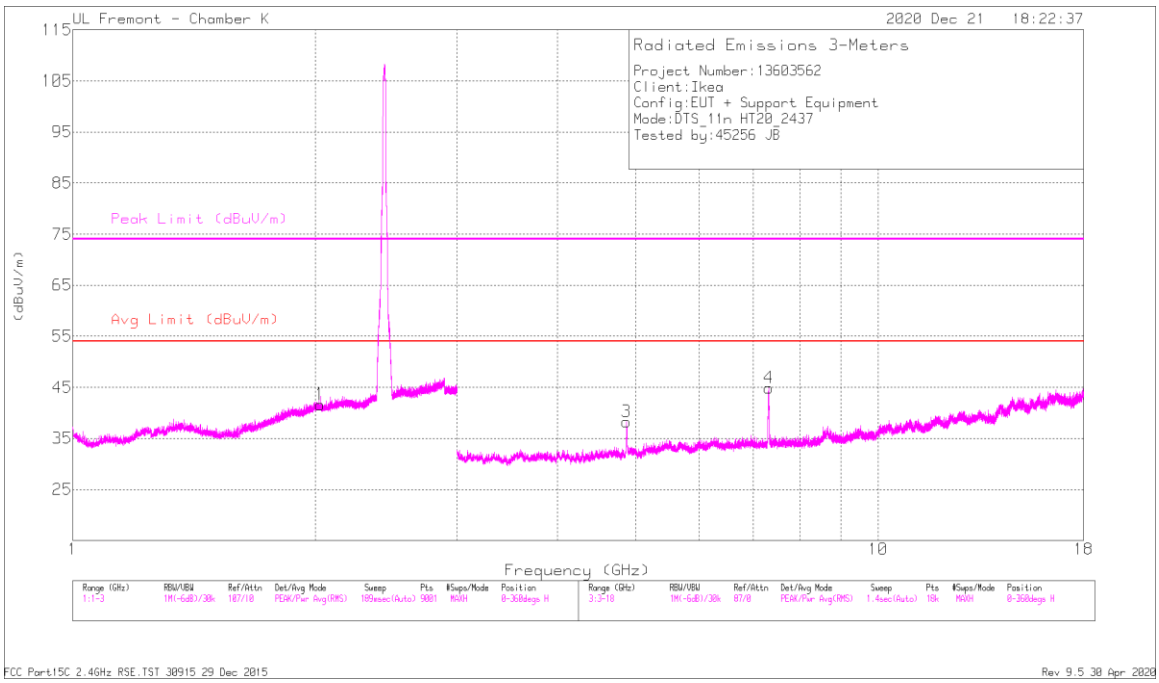
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.32852	28.97	PK2	28.8	-20.5	0	37.27	-	-	74	-36.73	40	227	H
	* 1.32781	18.06	MAv1	28.8	-20.5	0.96	27.32	54	-26.68	-	-	40	227	H
2	* 1.44166	35.56	PK2	28.6	-20	0	44.16	-	-	74	-29.84	168	306	V
	* 1.43998	21.3	MAv1	28.6	-20	0.96	30.86	54	-23.14	-	-	168	306	V
4	7.24274	33.84	Pk	35.7	-24.7	0	44.84	-	-	-	-	0-360	200	H
3	* 4.82227	38.49	PK2	34.2	-26.8	0	45.89	-	-	74	-28.11	133	160	H
	* 4.82244	24.2	MAv1	34.2	-26.8	0.96	32.56	54	-21.44	-	-	133	160	H
5	* 4.8271	35.27	PK2	34.1	-26.8	0	42.57	-	-	74	-31.43	112	115	V
	* 4.82525	22.63	MAv1	34.2	-26.8	0.96	30.99	54	-23.01	-	-	112	115	V
6	7.23357	35.88	Pk	35.8	-24.7	0	46.98	-	-	-	-	0-360	101	V

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

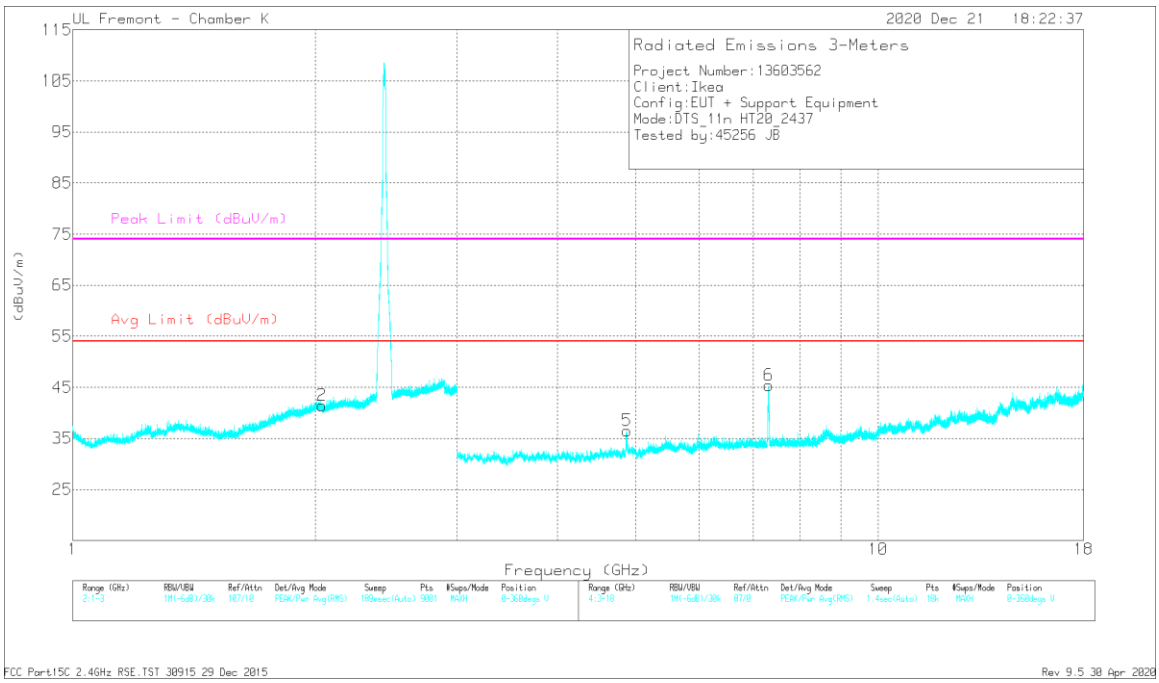
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

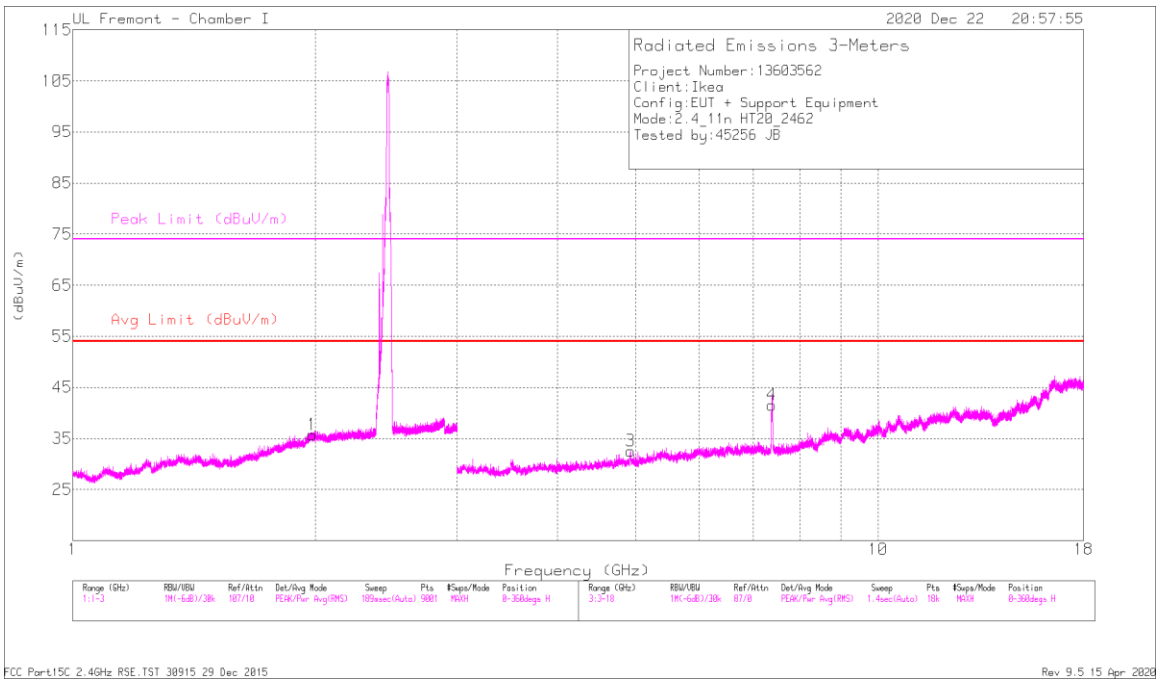
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.02822	22.35	Pk	31.3	-12	0	41.65	-	-	-	-	0-360	101	H
3	* 4.87499	47.23	PK2	34.4	-40.6	0	41.03	-	-	74	-32.97	31	122	H
	* 4.87639	36.24	MAv1	34.4	-40.6	0.96	31	54	-23	-	-	31	122	H
4	* 7.31266	51.39	PK2	36.1	-38.3	0	49.19	-	-	74	-24.81	324	231	H
	* 7.31283	37.35	MAv1	36.1	-38.3	0.96	36.11	54	-17.89	-	-	324	231	H
2	2.04022	22.12	Pk	31.4	-12	0	41.52	-	-	-	-	0-360	100	V
5	* 4.87715	47.46	PK2	34.4	-40.6	0	41.26	-	-	74	-32.74	142	96	V
	* 4.87578	36.29	MAv1	34.4	-40.6	0.96	31.05	54	-22.95	-	-	142	96	V
6	* 7.31074	47.37	PK2	36.1	-38.3	0	45.17	-	-	74	-28.83	251	100	V
	* 7.31235	35.85	MAv1	36.1	-38.3	0.96	34.61	54	-19.39	-	-	251	100	V

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

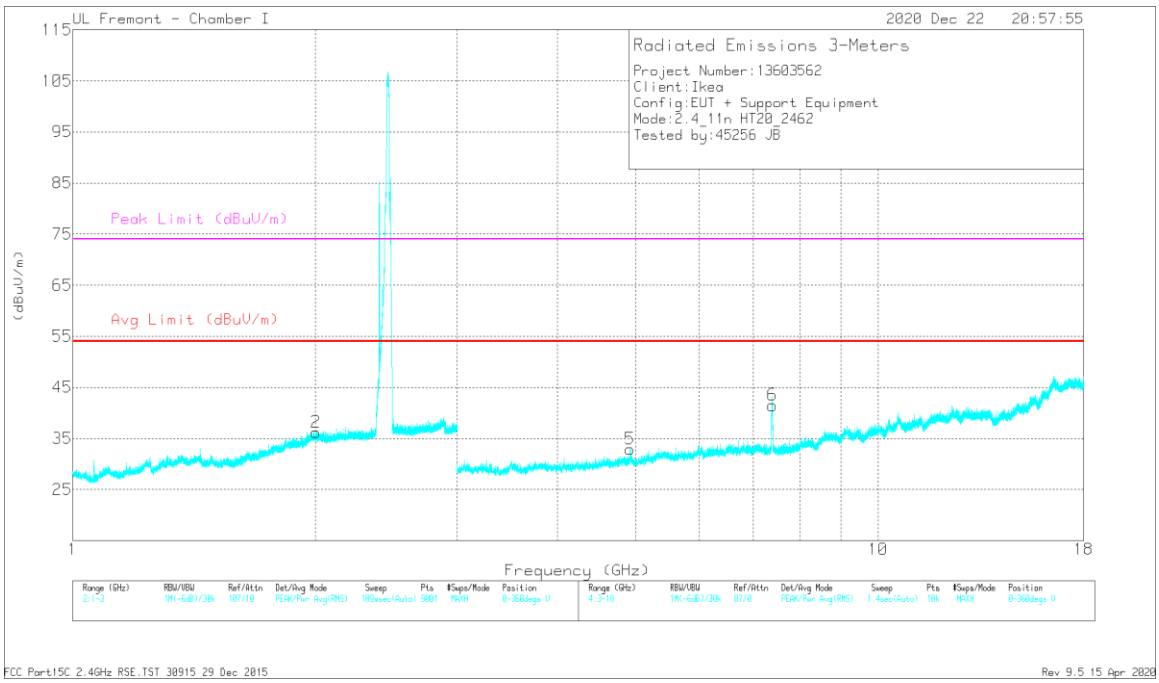
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.98333	22.61	Pk	31.4	-18.3	0	35.71	-	-	-	-	0-360	200	H
3	* 4.92914	35.18	PK2	34	-27.4	0	41.78	-	-	74	-32.22	125	174	H
	* 4.92883	20.69	MAv1	34	-27.4	0.96	28.25	54	-25.75	-	-	125	174	H
4	* 7.38212	42.23	PK2	35.7	-24.2	0	53.73	-	-	74	-20.27	110	211	H
	* 7.38224	27.88	MAv1	35.8	-24.2	0.96	40.44	54	-13.56	-	-	110	211	H
2	2.00489	22.83	Pk	31.7	-18.3	0	36.23	-	-	-	-	0-360	101	V
5	* 4.92197	35.04	PK2	34	-27.3	0	41.74	-	-	74	-32.26	102	111	V
	* 4.92154	22.66	MAv1	34	-27.3	0.96	30.32	54	-23.68	-	-	102	111	V
6	* 7.39258	40.44	PK2	35.6	-24	0	52.04	-	-	74	-21.96	48	109	V
	* 7.39534	23.85	MAv1	35.6	-24	0.96	36.41	54	-17.59	-	-	48	109	V

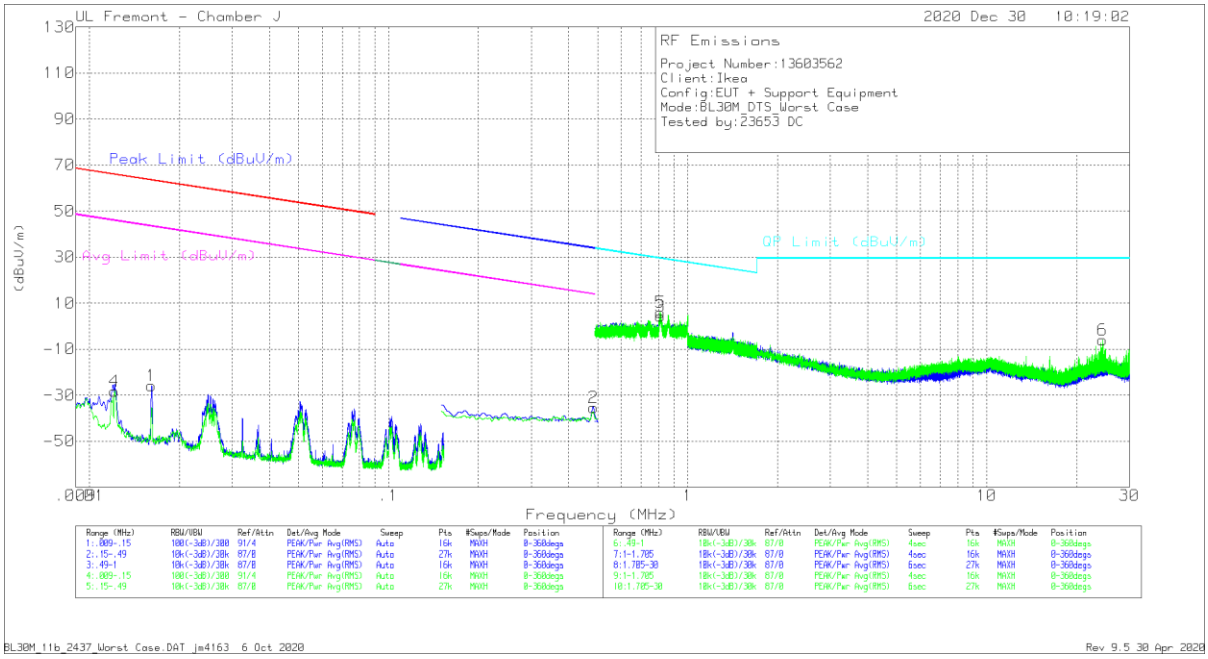
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

11.2. WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



ANTENNA- TWO ORIENTATIONS FACE ON/FACE OFF

Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.01615	23.25	Pk	59.3	-28.5	-80	-25.95	63.42	-89.37	43.42	-69.37	-	-	-	-	0-360
2	.48409	17.26	Pk	55.9	-28.5	-80	-35.34	-	-	-	-	33.91	-69.25	13.91	-49.25	0-360
4	.01215	20.42	Pk	59.8	-28.5	-80	-28.28	65.89	-94.17	45.89	-74.17	-	-	-	-	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.81002	16.92	Pk	56	-28.5	-40	4.42	29.45	-25.03	0-360
5	.8115	18.56	Pk	56	-28.5	-40	6.06	29.43	-23.37	0-360
6	24.34914	27.52	Pk	34.1	-27.7	-40	-6.08	29.5	-35.58	0-360

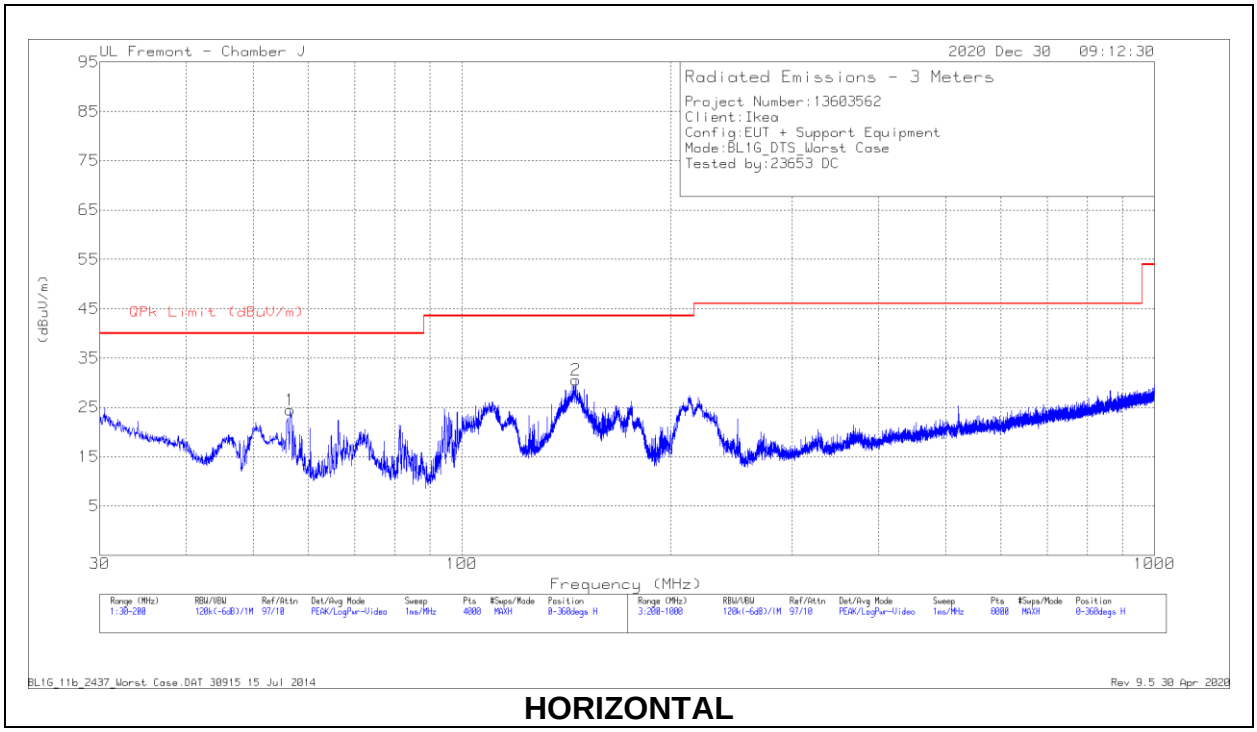
Pk - Peak detector

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impdedance of 377 Ohms. For example the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y – 51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

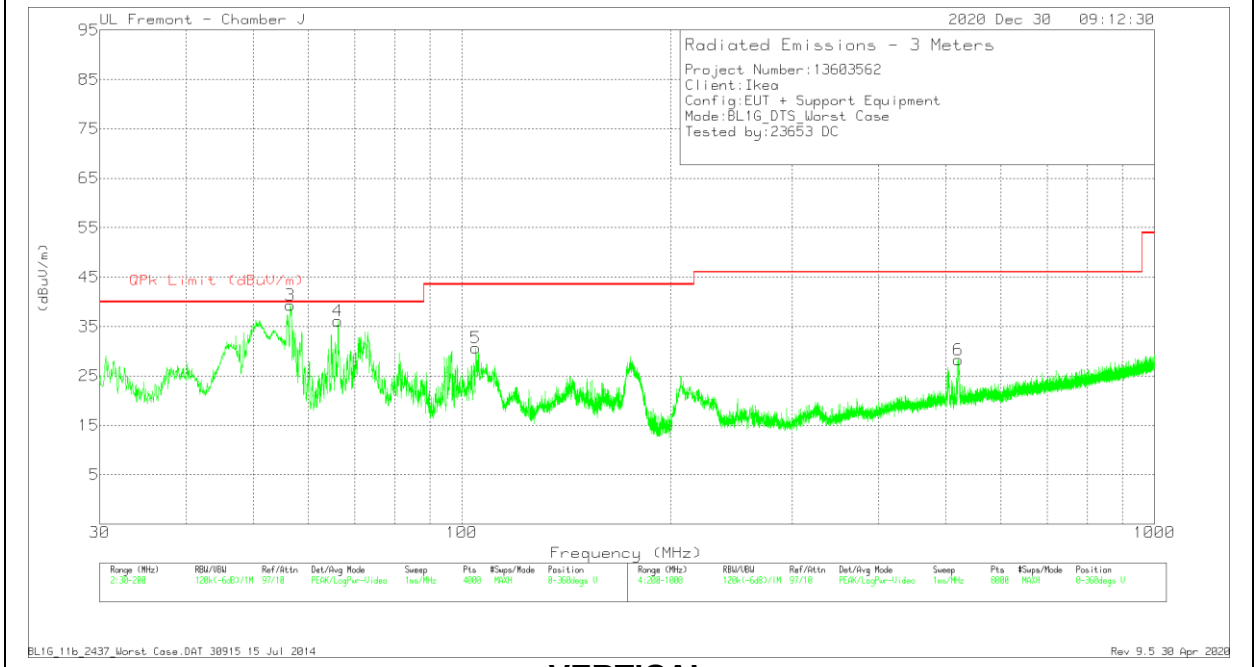
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

11.3. WORST CASE BELOW 1 GHz



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

Below 1GHz DATA

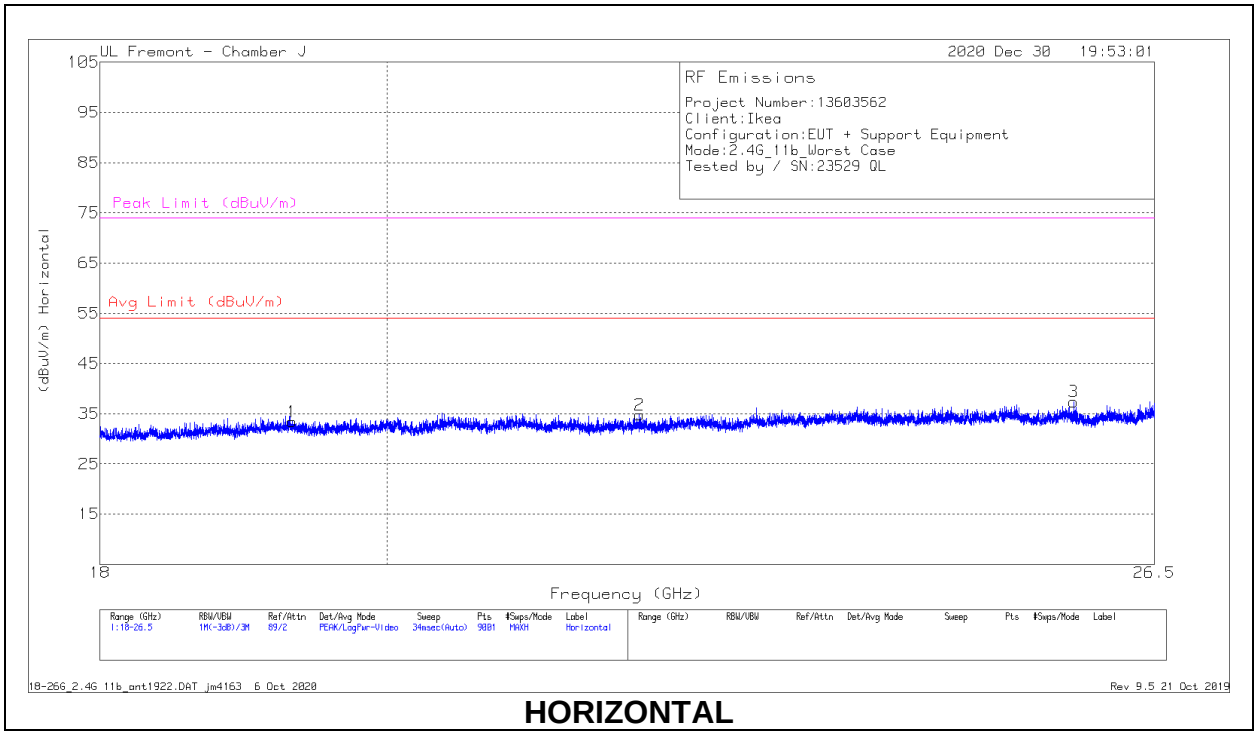
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.5269	42.77	Pk	13	-31.3	24.47	40	-15.53	0-360	389	H
2	146.055	42.59	Pk	18.7	-30.7	30.59	43.52	-12.93	0-360	196	H
3	56.5269	57.63	Pk	13	-31.3	39.33	40	-.67	0-360	100	V
	56.5269	49.77	Qp	13	-31.3	31.47	40	-8.53	360	102	V
4	66.2619	53.4	Pk	13.9	-31.2	36.1	40	-3.9	0-360	100	V
	68.4597	42.05	Qp	14	-31.2	24.85	40	-15.15	3	206	V
5	104.7768	44.46	Pk	17.1	-30.9	30.66	43.52	-12.86	0-360	100	V
6	521.2418	34.01	Pk	23.5	-29.3	28.21	46.02	-17.81	0-360	99	V

Pk - Peak detector
Qp - Quasi-Peak detector

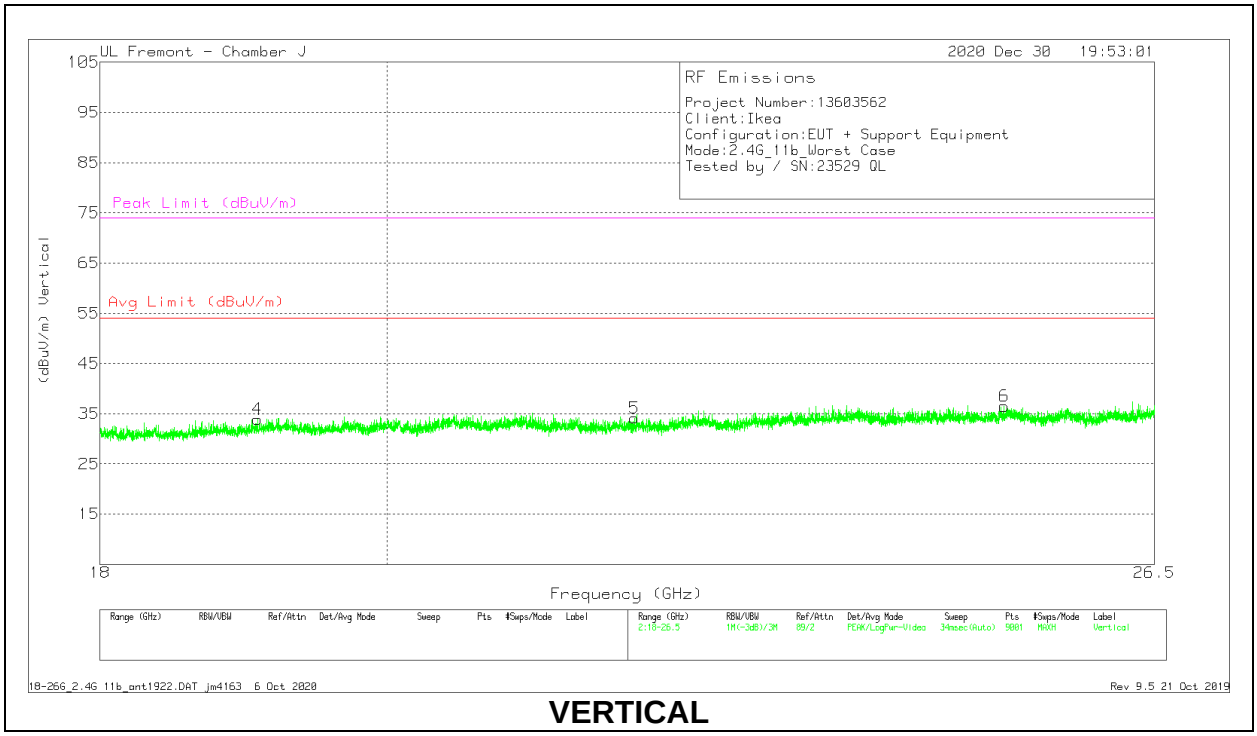
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

11.4. WORST CASE 18-26 GHz



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.31372	67.21	Pk	32.7	-57	-9.5	33.41	54	-20.59	74	-40.59
2	21.93644	68.45	Pk	33.4	-57.6	-9.5	34.75	54	-19.25	74	-39.25
3	25.72555	67.98	Pk	34.4	-55.5	-9.5	37.38	54	-16.62	74	-36.62
4	19.07006	68.39	Pk	32.6	-57.6	-9.5	33.89	54	-20.11	74	-40.11
5	21.89772	67.52	Pk	33.4	-57.3	-9.5	34.12	54	-19.88	74	-39.88
6	25.07861	66.8	Pk	34.6	-55.4	-9.5	36.5	54	-17.5	74	-37.5

Pk - Peak detector

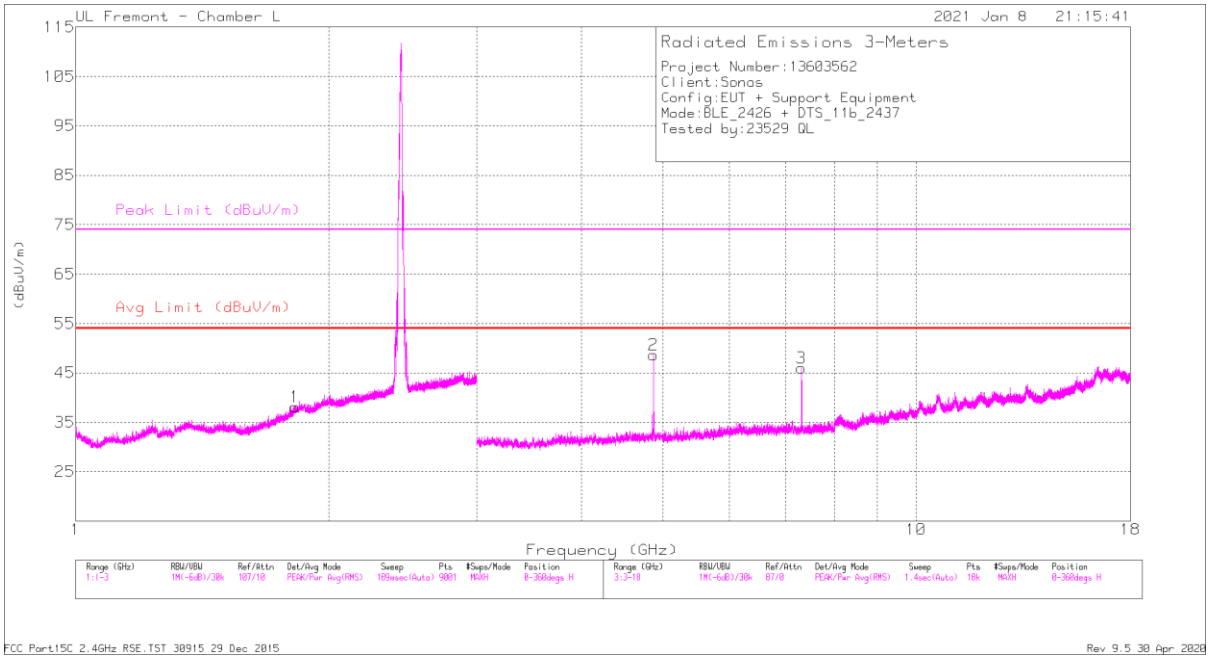
UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

11.5. SPURIOUS EMISSIONS FOR CO-LOCATION

TEST-CASE CONDITIONS

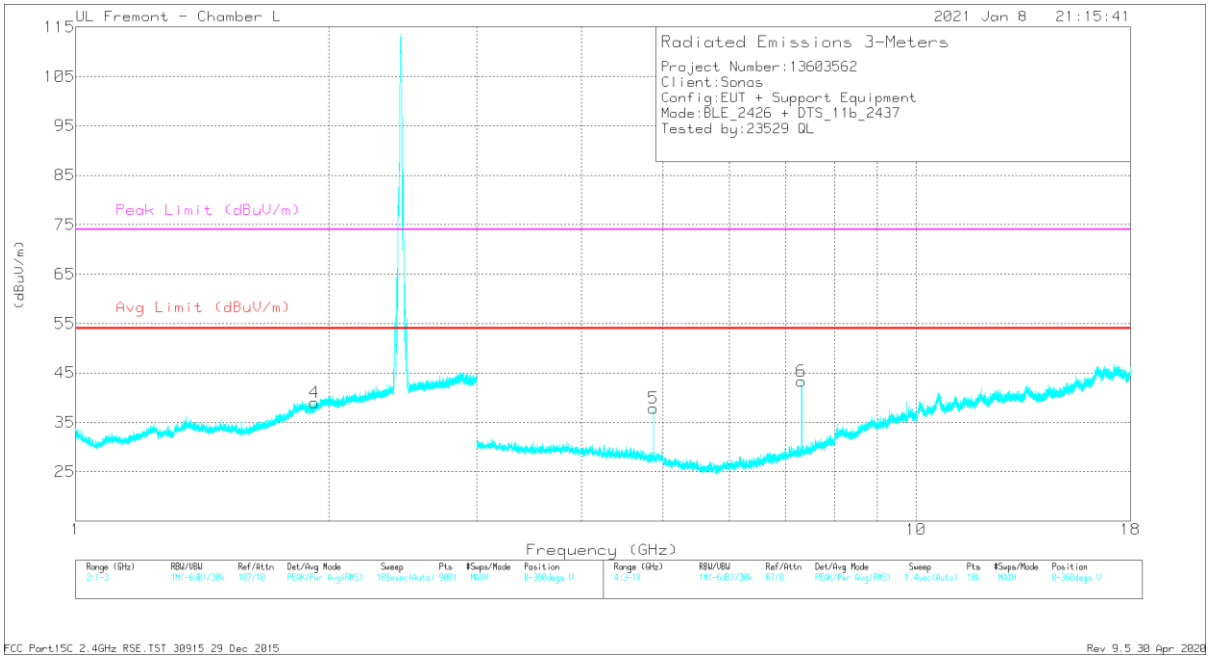
Antenna	Mode	Frequency (MHz)
BLE antenna	1Mbps	2426
WIFI E1922	WLAN 2.4GHz, 11b	2437



HORIZONTAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.



VERTICAL

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 344 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.82419	30.38	PK2	30.3	-14.8	0	45.88	-	-	-	-	187	389	H
2	* 4.87397	39.15	PK2	34.1	-27.2	0	46.05	-	-	74	-27.95	84	101	H
	* 4.87396	35.62	MAv1	34.1	-27.2	2.13	44.65	54	-9.35	-	-	84	101	H
3	* 7.31185	40.09	PK2	35.6	-23.7	0	51.99	-	-	74	-22.01	360	101	H
	* 7.31175	35.44	MAv1	35.6	-23.7	2.13	49.47	54	-4.53	-	-	360	101	H
4	1.93373	28.91	PK2	30.6	-14.3	0	45.21	-	-	-	-	259	132	V
5	* 4.87399	40.95	PK2	34.1	-27.2	0	47.85	-	-	74	-26.15	164	387	V
	* 4.87396	37.95	MAv1	34.1	-27.2	2.13	46.98	54	-7.02	-	-	164	387	V
6	* 7.31211	39.34	PK2	35.6	-23.7	0	51.24	-	-	74	-22.76	360	101	V
	* 7.31185	34.43	MAv1	35.6	-23.7	2.13	48.46	54	-5.54	-	-	360	101	V

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

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	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

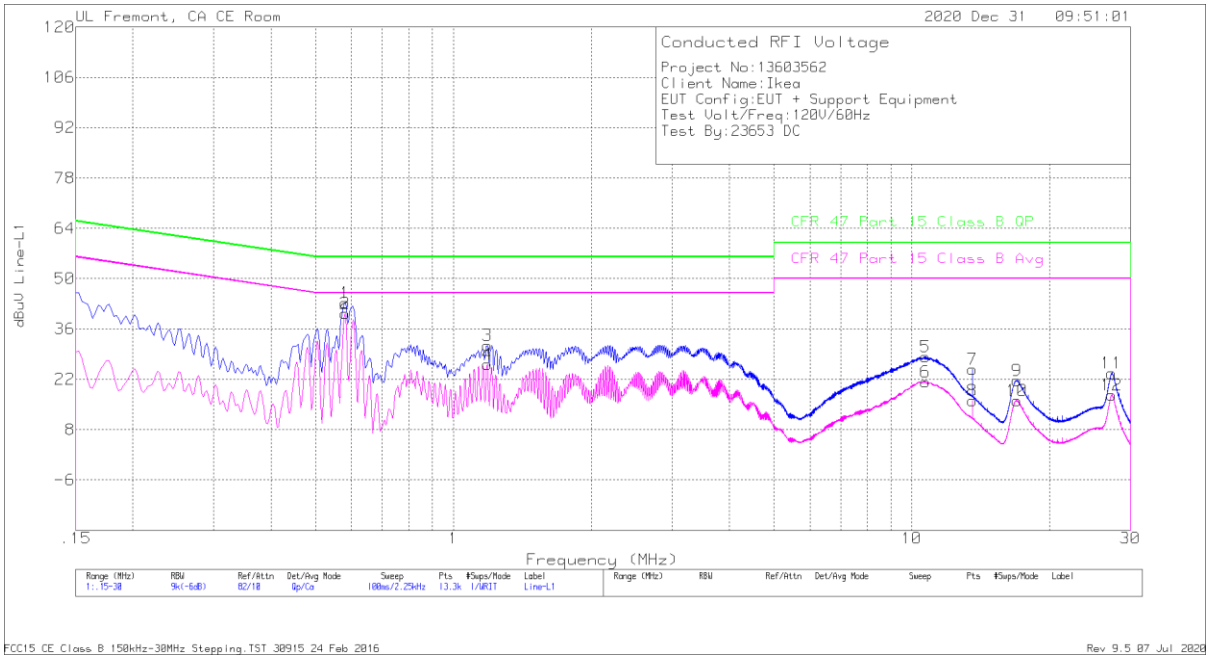
Both antenna models were performed AC power line test, the only worse case result (E1922 Antenna) is reported.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

12.1. E1922 ANTENNA (Worse-case result)

LINE 1 RESULTS

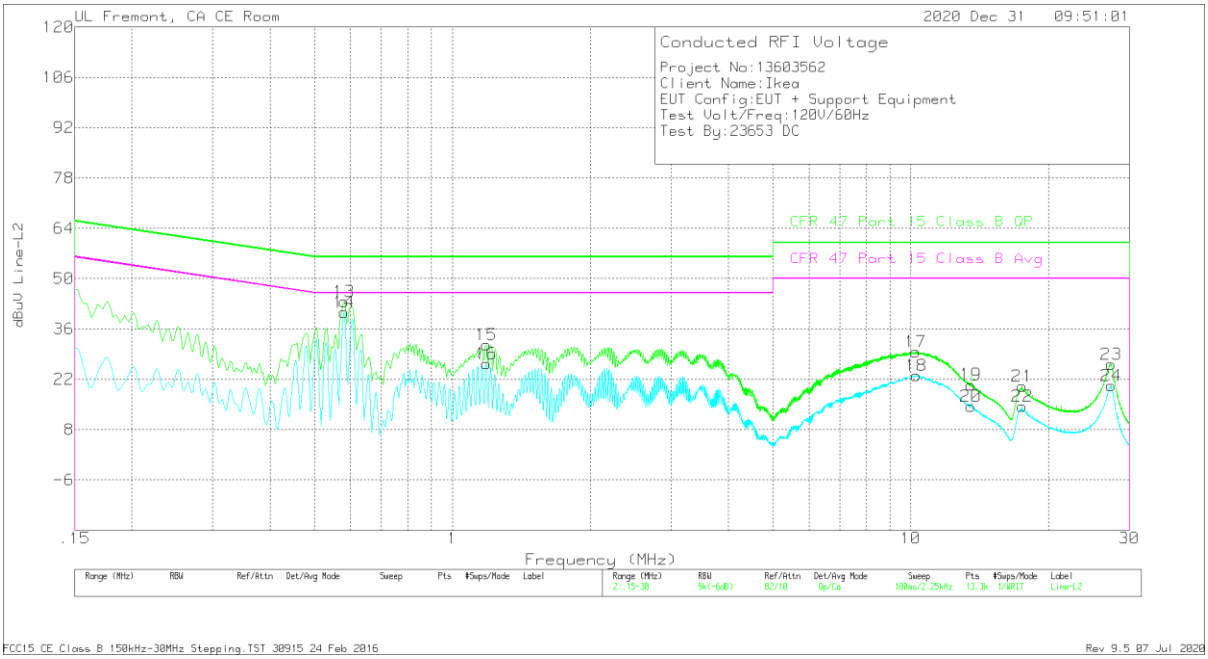


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE01864 46 LISN L1	LC Cables C1&C3 dB	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.57975	33.16	Qp	0	0	10.1	43.26	56	-12.74	-	-
2	.57975	30.19	Ca	0	0	10.1	40.29	-	-	46	-5.71
3	1.185	21.22	Qp	0	.1	10.1	31.42	56	-24.58	-	-
4	1.185	16.03	Ca	0	.1	10.1	26.23	-	-	46	-19.77
5	10.70475	17.91	Qp	0	.2	10.2	28.31	60	-31.69	-	-
6	10.70475	10.9	Ca	0	.2	10.2	21.3	-	-	50	-28.7
7	13.56	14.23	Qp	.1	.2	10.2	24.73	60	-35.27	-	-
8	13.56	5.48	Ca	.1	.2	10.2	15.98	-	-	50	-34.02
9	16.953	11.16	Qp	0	.2	10.3	21.66	60	-38.34	-	-
10	16.9665	5.56	Ca	0	.2	10.3	16.06	-	-	50	-33.94
11	27.312	12.85	Qp	0	.3	10.5	23.65	60	-36.35	-	-
12	27.31425	6.78	Ca	0	.3	10.5	17.58	-	-	50	-32.42

Qp - Quasi-Peak detector
Ca - CISPR average detection
NOTE: Markers 7 and 8, 13.56MHz is an external NFC signal unrelated to the EUT.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE01864 46 LISN L2	LC Cables C2&C3 dB	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.57975	33.48	Qp	0	0	10.1	43.58	56	-12.42	-	-
14	.57975	30.48	Ca	0	0	10.1	40.58	-	-	46	-5.42
15	1.185	21.38	Qp	0	.1	10.1	31.58	56	-24.42	-	-
16	1.185	16.08	Ca	0	.1	10.1	26.28	-	-	46	-19.72
17	10.2525	19.22	Qp	0	.2	10.2	29.62	60	-30.38	-	-
18	10.27275	12.57	Ca	0	.2	10.2	22.97	-	-	50	-27.03
19	13.5195	10	Qp	.1	.2	10.2	20.5	60	-39.5	-	-
20	13.51275	4.04	Ca	.1	.2	10.2	14.54	-	-	50	-35.46
21	17.484	9.55	Qp	0	.2	10.3	20.05	60	-39.95	-	-
22	17.484	3.91	Ca	0	.2	10.3	14.41	-	-	50	-35.59
23	27.40538	15.31	Qp	.1	.3	10.5	26.21	60	-33.79	-	-
24	27.4065	9.29	Ca	.1	.3	10.5	20.19	-	-	50	-29.81

Qp - Quasi-Peak detector
Ca - CISPR average detection
NOTE: Markers 19 and 20, 13.56MHz is an external NFC signal unrelated to the EUT
.

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888
This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.