EMC TEST REPORT

Product Name	ISS(interactive smart shelf)
Trade mark	LG Display
Model No.	LD290EJS-FPN1
FCC ID:	2AXECLD290EJS-FPN1
Report No.	CTB211029005EX
Applicant	LG Display Co., Ltd. LG TWIN TOWERS (EAST), 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea
Manufacturer	LG Display Co., Ltd. LG TWIN TOWERS (EAST), 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea
Prepared by	Shenzhen CTB Testing Technology Co., Ltd. Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen, China
Date of Receipt	2021-09-22
Date of Test(s)	2021-09-22~ 2021-12-13
Date of Issue	2021-12-30
Test Standard(s)	CFR47, FCC Part 15 Subpart B, ANSI C63.4: 2014
Test Result:	Pass

In the configuration tested, the EUT complied with the standards specified above.

Compiled by:	Reviewed by:	Approved by:
Zack Zhu	Bin Mei	Rita Xiao

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of CTB. This document may be altered or revised by CTB, personnel only, and shall be noted in the revision of the document.

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1. Description of version

Report No.	Issue Date	Description	Approved
CTB211029005EX	2021-12-30	Original	Valid

2. Test summary

Test procedures according to the technical standards:

Standard	Test Item	Test Result
§15.107	Conducted Emission	PASS
§15.109	Radiated Emission	PASS

3. Measurement uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard

Test Item	Frequency	Expanded Uncertainty (U_{Lab})
Conducted Emission	150 kHz to 30 MHz	±3.2 dB
Radiated Emission	30 MHz to 1000 MHz	± 4.8 dB
Radiated Emission	Above 1000 MHz	± 4.9 dB

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %

4. General information

4.1. Description of EUT

Product name	ISS(interactive smart shelf)
Trade mark	LG Display
Model No.	LD290EJS-FPN1
Serial No.	/
Model Difference	/
Rated Power	36W
Normal Testing Voltage	AC120V/60Hz
Configuration	☒ Table-top ☐ Floor-standing
Adapter Information:	Model No:GQ36-120300-AU Input:AC 100-240V-50/60Hz 1.0A Max Output:DC 12.0V 3.0A 36.0W

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

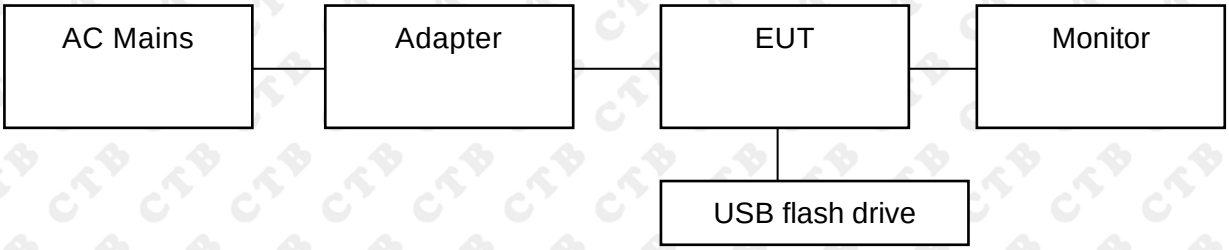
4.2. Description of accessory device

No.	Device Type	Brand	Model	Specification	Note
1	AC adaptor	/	GQ36-120300-AU	/	/
2	Monitor	DELL	HA45NM140	/	/
3	HDMI Cable	/	spiron5570	/	//
4	USB flash drive	Kingston	USB25630	/	/
5	Micro USB cable	/	/		

4.3. Test conditions

Temperature: 15-25℃
Relative Humidity: 30-60 %
Atmospheric pressure: 800hPa-1060hPa

4.4. Block diagram of EUT configuration



4.5. Operating condition of EUT

Operating condition	Mode 1	Micro HDMI Output Display+ Micro USB Data Exchange	Test Voltage	AC 120V/60Hz* AC 230V/50Hz
	Mode 2	WIFI Link+ BT Link	Test Voltage	AC 120V/60Hz AC 230V/50Hz
Note:This test covers all possible operating modes of the device, only the worst data are list in report. The worst data are shows (*)is the nearest standard limit which were recorded in this report.				

5. List of Test and Measurement Instruments

Conducted Emission Measurement					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	2022.08.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2022.08.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCS30	834115/006	2022.08.05
4	Coaxial cable	ZDECL	Z302S	18091904	2022.08.05
5	AAN	Schwarzbeck	NTFM8158	6114	2022.08.05
6	EZ-EMC	Frad	EMC-con3A1.1	/	/

Radiated Emission Measurement					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2022.08.07
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2022.08.07
3	Amplifier	Agilent	8449B	3008A01838	2022.08.05
4	Amplifier	HP	8447E	2945A02747	2022.08.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2022.08.05
6	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2022.08.05
7	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2022.08.05
8	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2022.08.05
9	Coaxial cable	ETS	RFC-NNS-100 -NMS-300 NI	/	2022.08.05
10	EZ-EMC	Frad	EMC-con3A1.1	/	/

6. Conducted Emission

6.1. Limit

☐ Except for Class A devices:

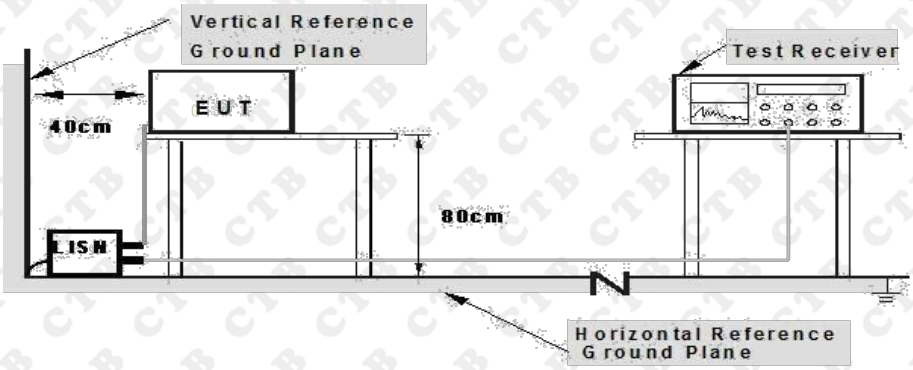
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

☒ For Class A devices:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

6.2. Test setup



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

The setup of EUT is according with ANSI C63.4 measurement procedure. Specification used with FCC Part 15 limits.

6.3. EMI test receiver setup

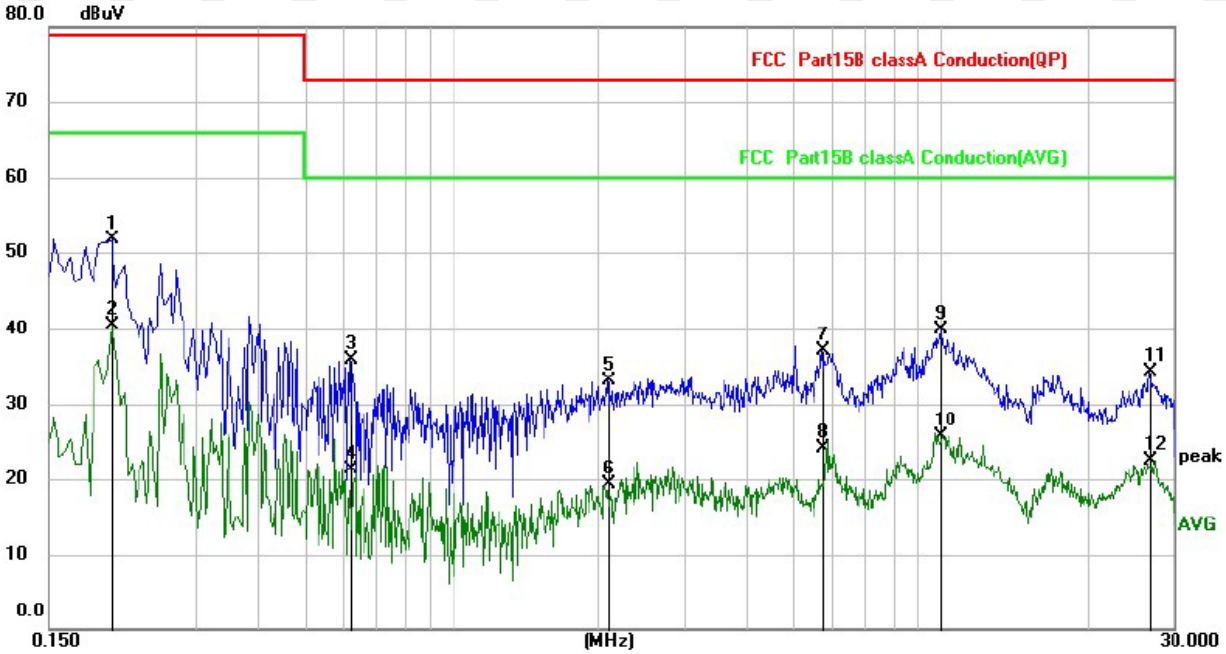
Frequency Range	9kHz-30MHz
Resolution Bandwidth	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)

6.4. Test procedure

1. Measurement was performed in shielded room, and instruments used were followed clause 4 of ANSI C63.4.
2. Detailed test procedure was following clause 7 of ANSI C63.4.
3. Frequency range 150kHz – 30MHz was checked and EMI receiver measurement bandwidth was set to 9 kHz.

6.5. Test results

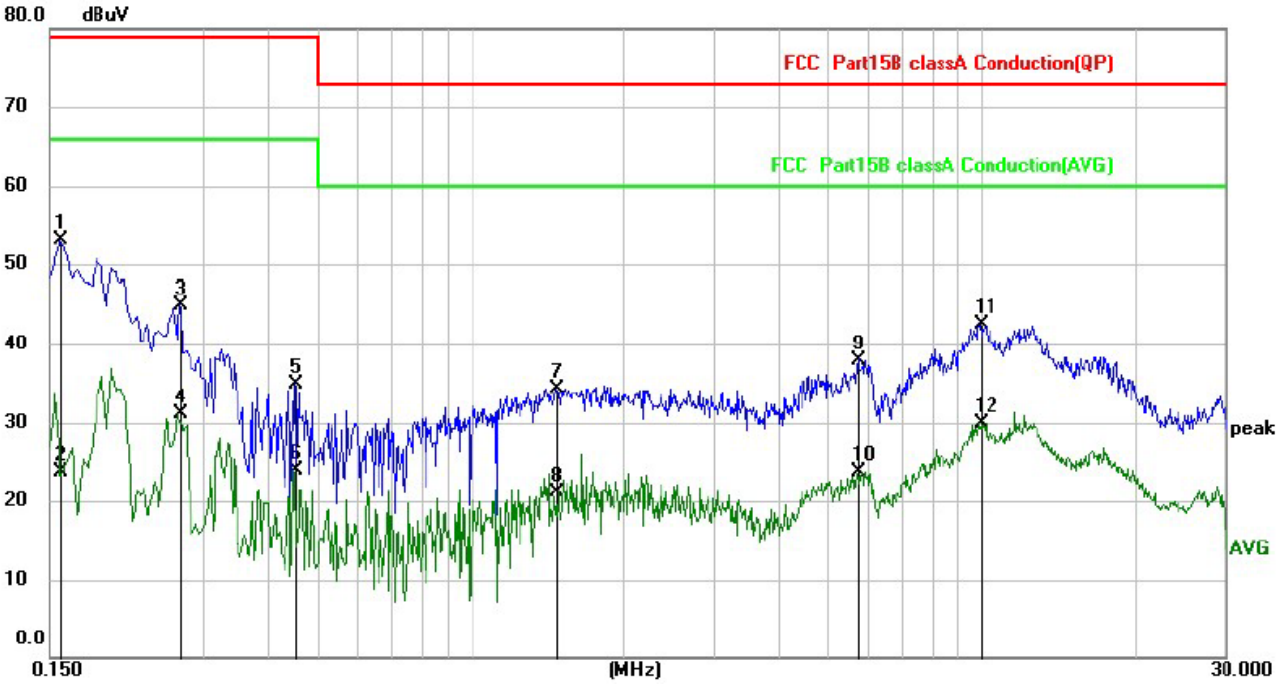
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2020	41.65	9.96	51.61	79.00	-27.39	QP
2	*	0.2020	30.51	9.96	40.47	66.00	-25.53	AVG
3		0.6180	25.93	9.96	35.89	73.00	-37.11	QP
4		0.6180	11.42	9.96	21.38	60.00	-38.62	AVG
5		2.0980	23.03	10.02	33.05	73.00	-39.95	QP
6		2.0980	9.22	10.02	19.24	60.00	-40.76	AVG
7		5.7340	26.75	10.26	37.01	73.00	-35.99	QP
8		5.7340	13.76	10.26	24.02	60.00	-35.98	AVG
9		9.9700	29.06	10.80	39.86	73.00	-33.14	QP
10		9.9700	14.81	10.80	25.61	60.00	-34.39	AVG
11		26.8380	23.12	11.25	34.37	73.00	-38.63	QP
12		26.8380	11.33	11.25	22.58	60.00	-37.42	AVG

Note: Result=Reading + Factor
Over Limit=Result - Limit

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1580	43.09	9.96	53.05	79.00	-25.95	QP
2		0.1580	13.68	9.96	23.64	66.00	-42.36	AVG
3		0.2700	34.85	9.96	44.81	79.00	-34.19	QP
4		0.2700	21.14	9.96	31.10	66.00	-34.90	AVG
5		0.4540	24.87	9.96	34.83	79.00	-44.17	QP
6		0.4540	13.91	9.96	23.87	66.00	-42.13	AVG
7		1.4660	24.41	9.98	34.39	73.00	-38.61	QP
8		1.4660	11.17	9.98	21.15	60.00	-38.85	AVG
9		5.7738	27.73	10.27	38.00	73.00	-35.00	QP
10		5.7738	13.36	10.27	23.63	60.00	-36.37	AVG
11		9.9339	31.67	10.79	42.46	73.00	-30.54	QP
12		9.9339	19.21	10.79	30.00	60.00	-30.00	AVG

Note: Result=Reading + Factor
Over Limit=Result – Limit

7. Radiated emissions

7.1. Limit

☐ Except for Class A devices (at 3m):

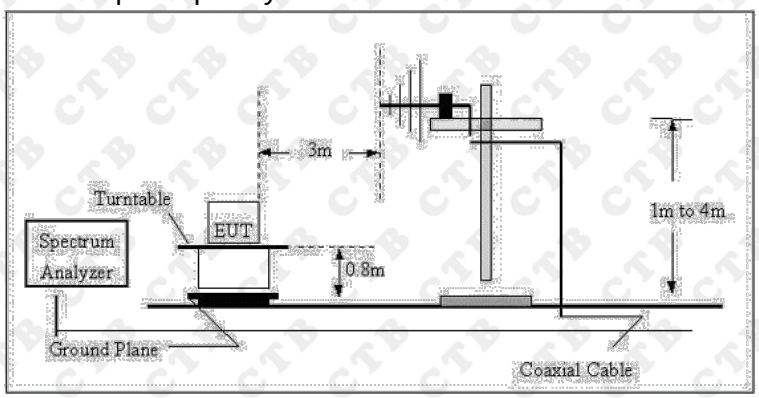
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dBμV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

☒ For Class A devices (at 10m):

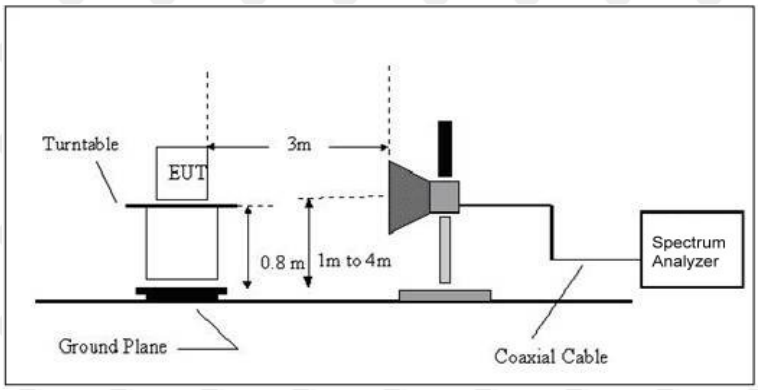
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dBμV/m)
30-88	90	39
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

7.2. Test setup

Radiated Emission Test Set-Up Frequency Below 1 GHz



Radiated Emission Test Set-Up Frequency Above 1GHz



The radiated tests wer performed in 3 meter Charmber test site, using the setup accordance with the ANSI C63.4:2014.

7.3. EMI test receiver setup and spectrum analyzer setup

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz-1000MHz	100kHz	300kHz	120kHz	QP
Above 1GHz	1MHz	3MHz	/	PK
	1MHz	10Hz	/	AVG

7.4. Test procedure

1. The measurement was performed in a semi-anechoic chamber, and instruments used were followed clause 4 of ANSI C63.4

2. Detailed test procedure was following clause 8 of ANSI C63.4.

7.5. Corrected Amplitude & Margin Calculation

1. The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

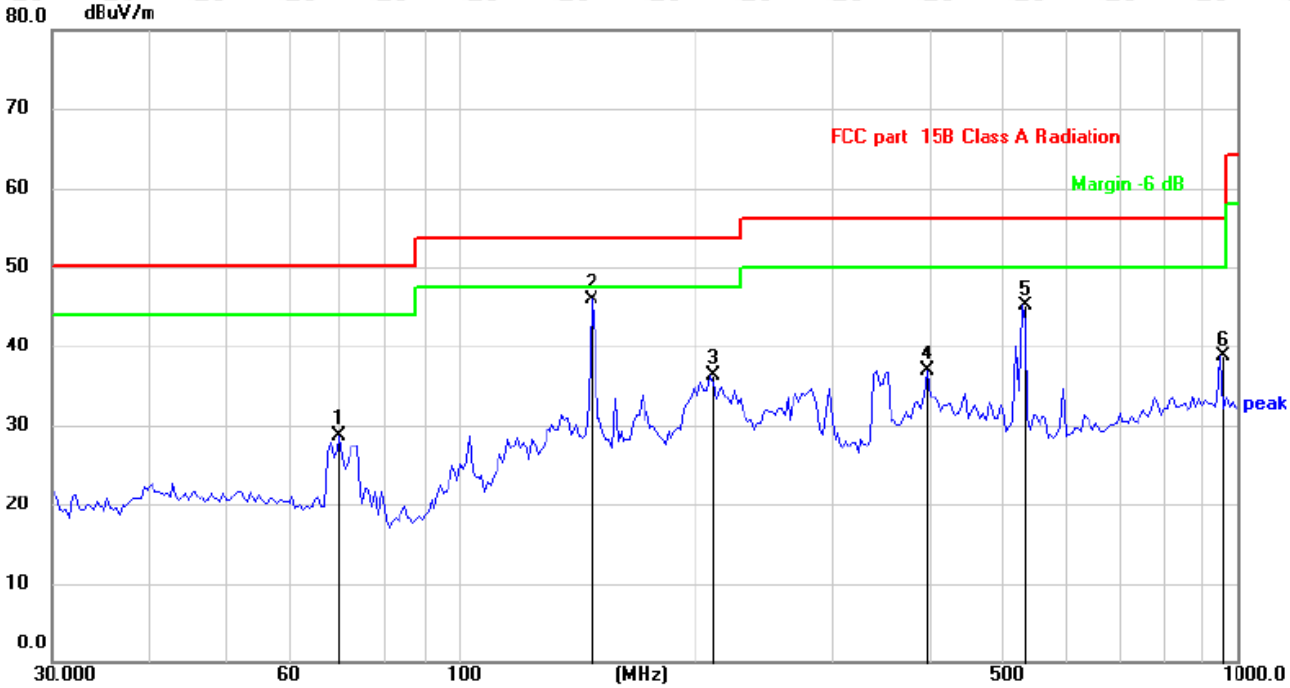
2. The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

7.6. Test results

Up to 1GHz:

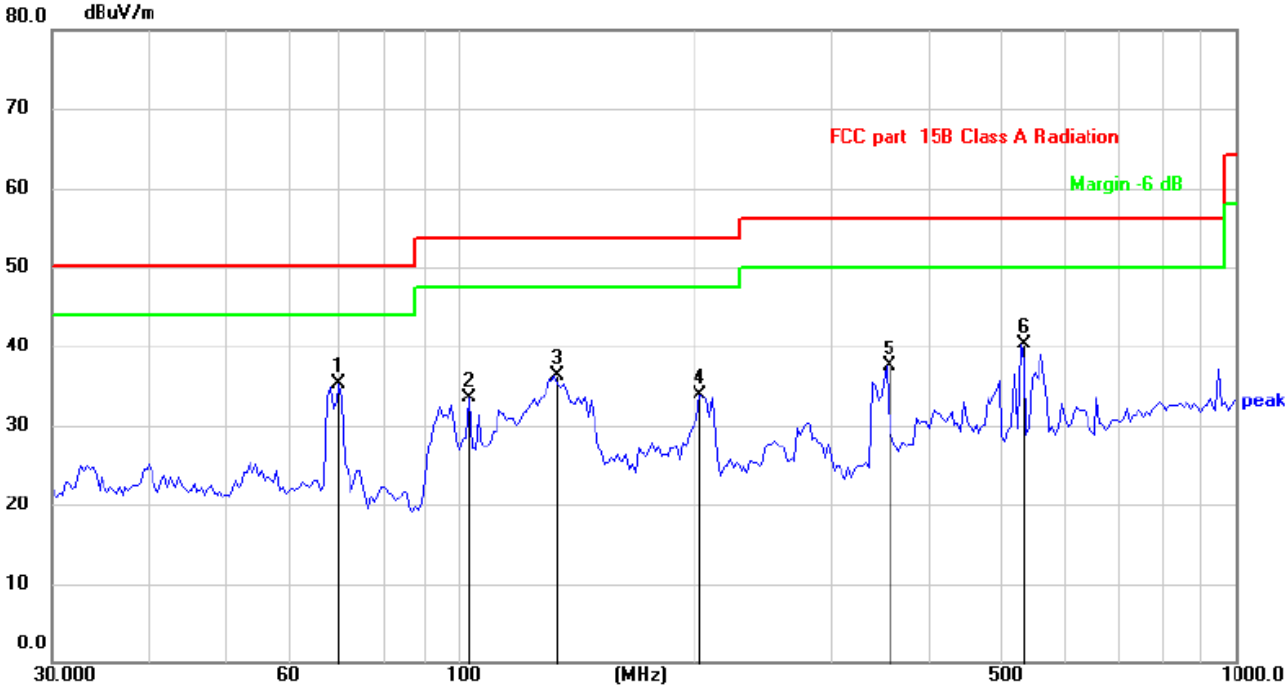
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		70.2132	36.75	-7.97	28.78	50.00	-21.22	QP
2	*	147.9214	51.48	-5.49	45.99	53.50	-7.51	QP
3		210.0482	43.71	-7.48	36.23	53.50	-17.27	QP
4		398.3312	38.70	-1.74	36.96	56.00	-19.04	QP
5		527.3205	43.82	1.22	45.04	56.00	-10.96	QP
6		948.7610	32.88	5.91	38.79	56.00	-17.21	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

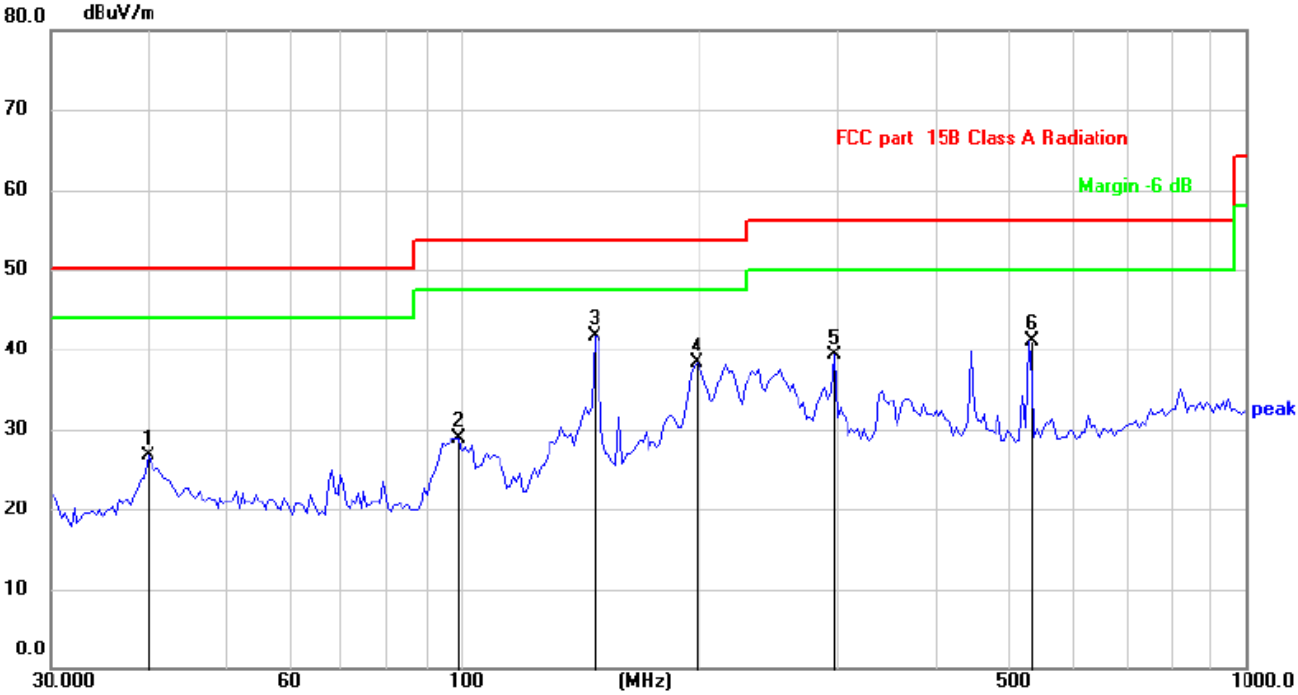
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	70.2132	43.26	-7.97	35.29	50.00	-14.71	QP
2		103.2609	41.99	-8.43	33.56	53.50	-19.94	QP
3		133.1511	42.17	-5.93	36.24	53.50	-17.26	QP
4		204.5961	41.83	-7.91	33.92	53.50	-19.58	QP
5		355.4273	40.70	-3.26	37.44	56.00	-18.56	QP
6		527.3205	39.15	1.22	40.37	56.00	-15.63	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

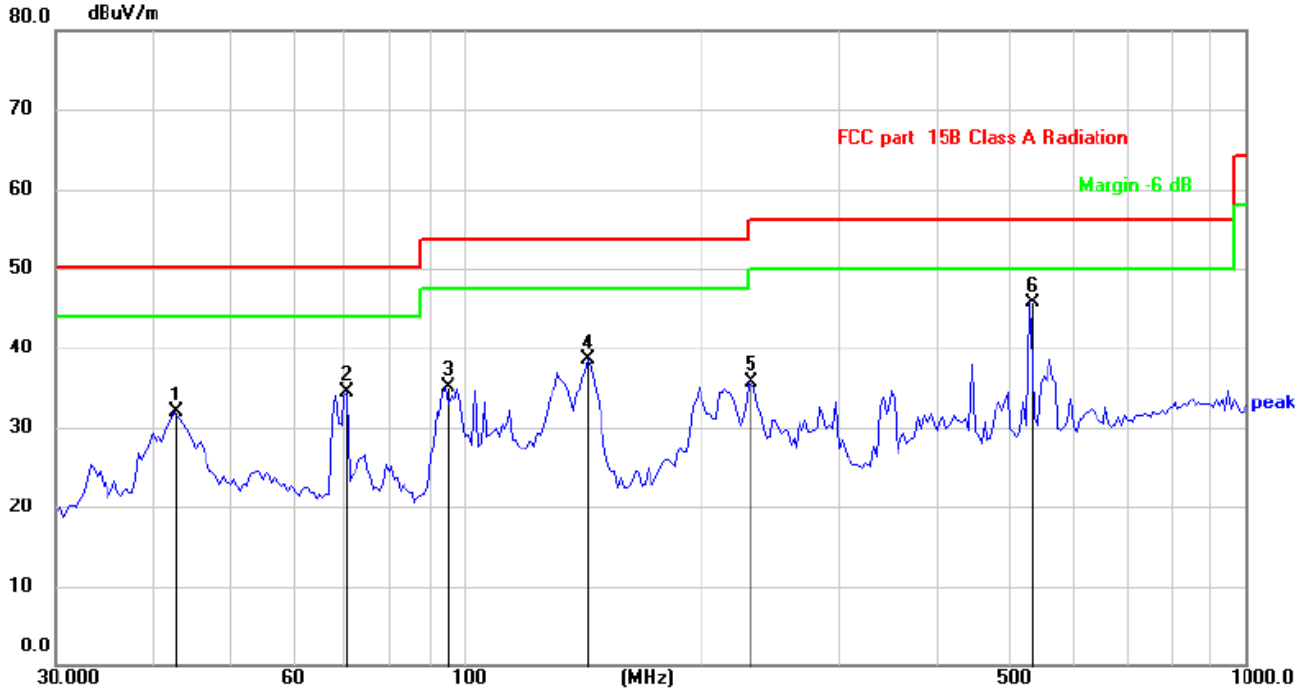
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.0644	31.94	-5.27	26.67	50.00	-23.33	QP
2		98.8326	37.75	-8.77	28.98	53.50	-24.52	QP
3	*	147.9214	47.18	-5.49	41.69	53.50	-11.81	QP
4		199.2855	46.48	-8.27	38.21	53.50	-15.29	QP
5		298.2681	44.48	-5.24	39.24	56.00	-16.76	QP
6		527.3205	39.84	1.22	41.06	56.00	-14.94	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2

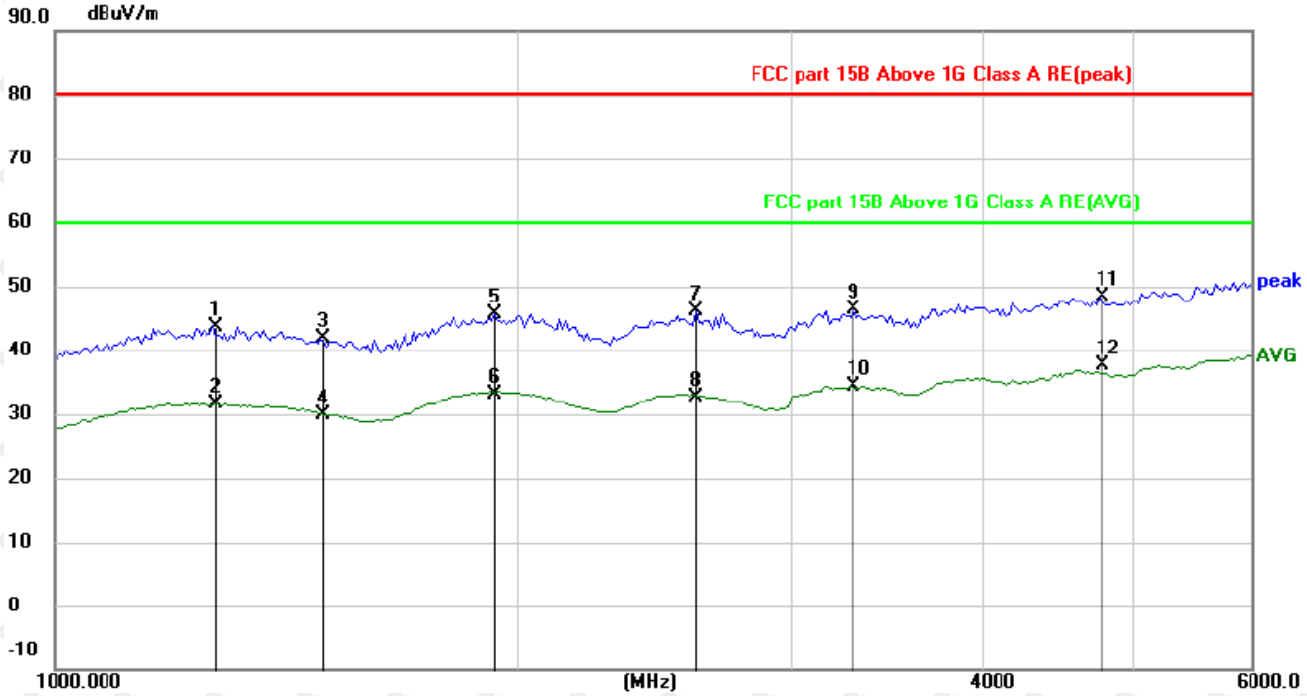


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		42.6000	37.32	-5.37	31.95	50.00	-18.05	QP
2		70.8315	42.62	-8.08	34.54	50.00	-15.46	QP
3		94.5941	44.34	-9.23	35.11	53.50	-18.39	QP
4		144.0819	44.00	-5.46	38.54	53.50	-14.96	QP
5		231.3120	41.67	-5.88	35.79	56.00	-20.21	QP
6	*	527.3205	44.57	1.22	45.79	56.00	-10.21	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Above 1GHz:

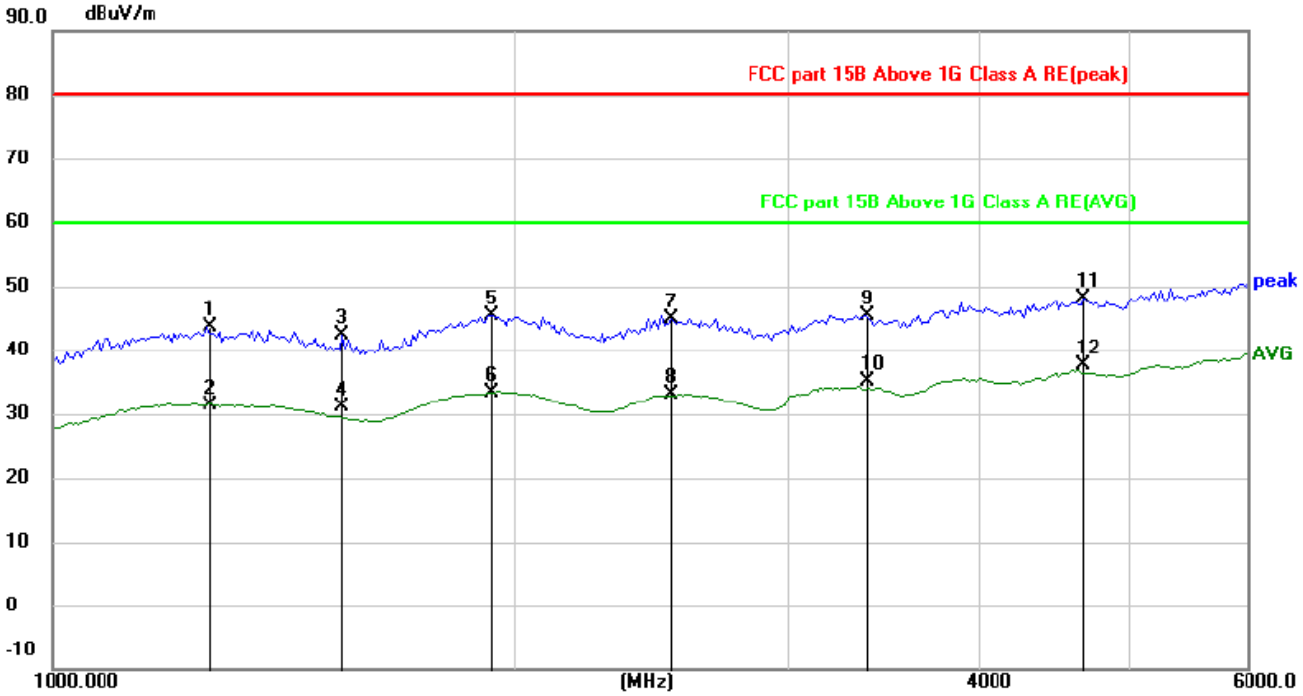
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1267.959	45.94	-2.19	43.75	80.00	-36.25	peak
2		1267.959	33.71	-2.19	31.52	60.00	-28.48	AVG
3		1489.837	42.63	-0.72	41.91	80.00	-38.09	peak
4		1489.837	30.54	-0.72	29.82	60.00	-30.18	AVG
5		1931.837	43.98	1.67	45.65	80.00	-34.35	peak
6		1931.837	31.50	1.67	33.17	60.00	-26.83	AVG
7		2608.020	43.47	2.54	46.01	80.00	-33.99	peak
8		2608.020	30.20	2.54	32.74	60.00	-27.26	AVG
9		3306.861	42.53	3.85	46.38	80.00	-33.62	peak
10		3306.861	30.43	3.85	34.28	60.00	-25.72	AVG
11		4774.600	40.65	7.83	48.48	80.00	-31.52	peak
12	*	4774.600	29.75	7.83	37.58	60.00	-22.42	AVG

Note: Result=Reading+Factor
Over Limit=Result-Limit

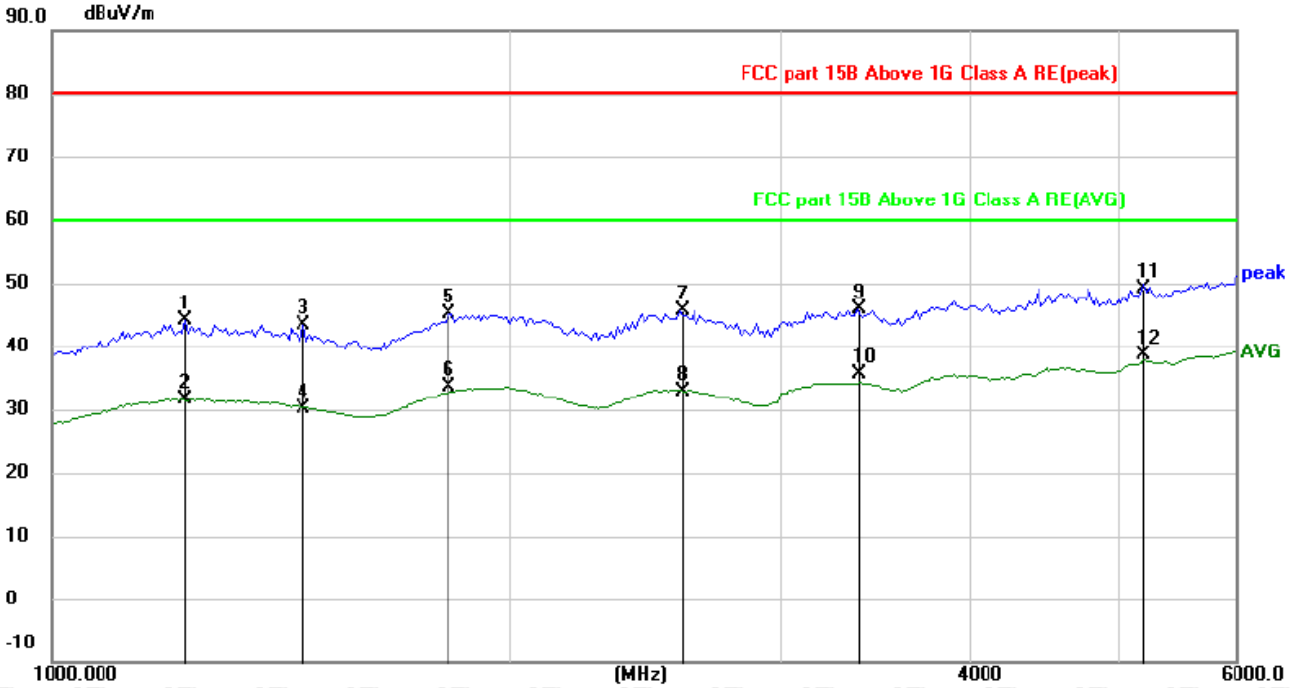
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1262.292	45.93	-2.22	43.71	80.00	-36.29	peak
2		1262.292	33.65	-2.22	31.43	60.00	-28.57	AVG
3		1544.193	42.93	-0.43	42.50	80.00	-37.50	peak
4		1544.193	31.48	-0.43	31.05	60.00	-28.95	AVG
5		1931.837	43.61	1.67	45.28	80.00	-34.72	peak
6		1931.837	31.74	1.67	33.41	60.00	-26.59	AVG
7		2527.512	42.39	2.47	44.86	80.00	-35.14	peak
8		2527.512	30.58	2.47	33.05	60.00	-26.95	AVG
9		3381.761	41.30	4.10	45.40	80.00	-34.60	peak
10		3381.761	31.08	4.10	35.18	60.00	-24.82	AVG
11		4689.812	40.49	7.65	48.14	80.00	-31.86	peak
12	*	4689.812	29.86	7.65	37.51	60.00	-22.49	AVG

Note: Result=Reading+Factor
Over Limit=Result-Limit

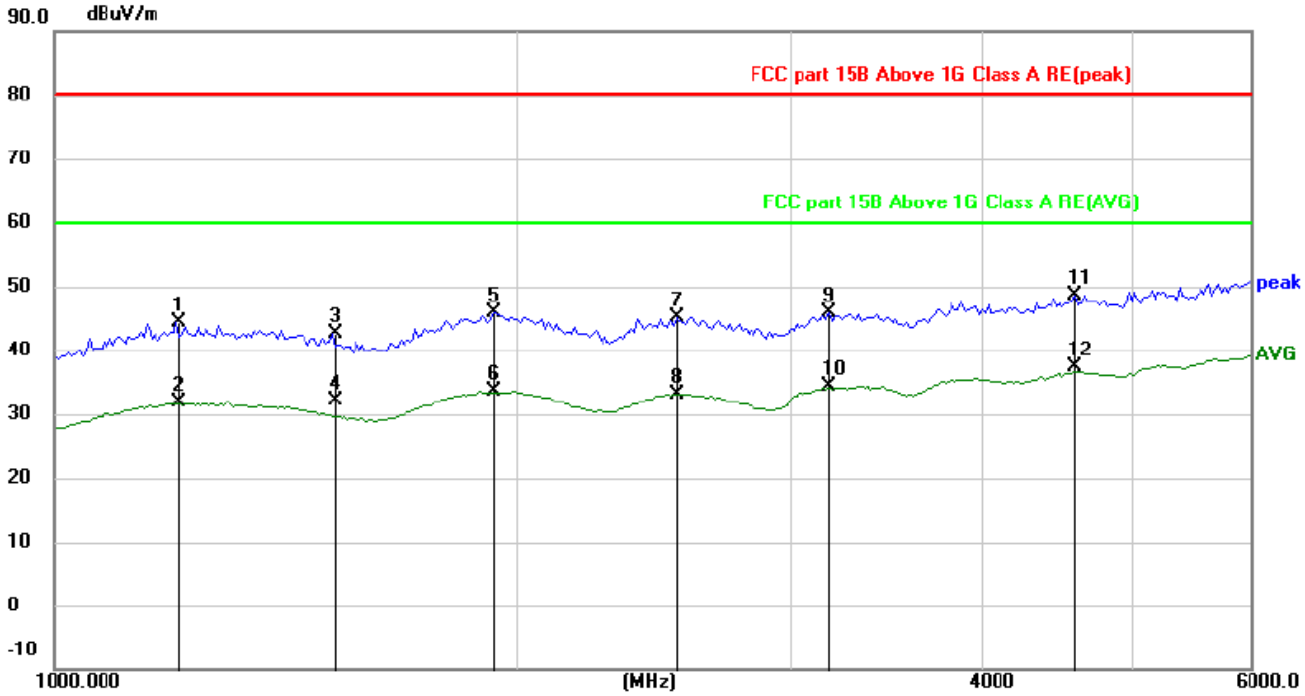
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1223.325	46.56	-2.37	44.19	80.00	-35.81	peak
2		1223.325	33.98	-2.37	31.61	60.00	-28.39	AVG
3		1463.380	44.28	-0.87	43.41	80.00	-36.59	peak
4		1463.380	31.10	-0.87	30.23	60.00	-29.77	AVG
5		1822.555	44.01	1.08	45.09	80.00	-34.91	peak
6		1822.555	32.47	1.08	33.55	60.00	-26.45	AVG
7		2584.760	43.11	2.52	45.63	80.00	-34.37	peak
8		2584.760	30.47	2.52	32.99	60.00	-27.01	AVG
9		3381.761	41.78	4.10	45.88	80.00	-34.12	peak
10		3381.761	31.54	4.10	35.64	60.00	-24.36	AVG
11		5198.753	40.16	8.95	49.11	80.00	-30.89	peak
12	*	5198.753	29.69	8.95	38.64	60.00	-21.36	AVG

Note: Result=Reading+Factor
Over Limit=Result-Limit

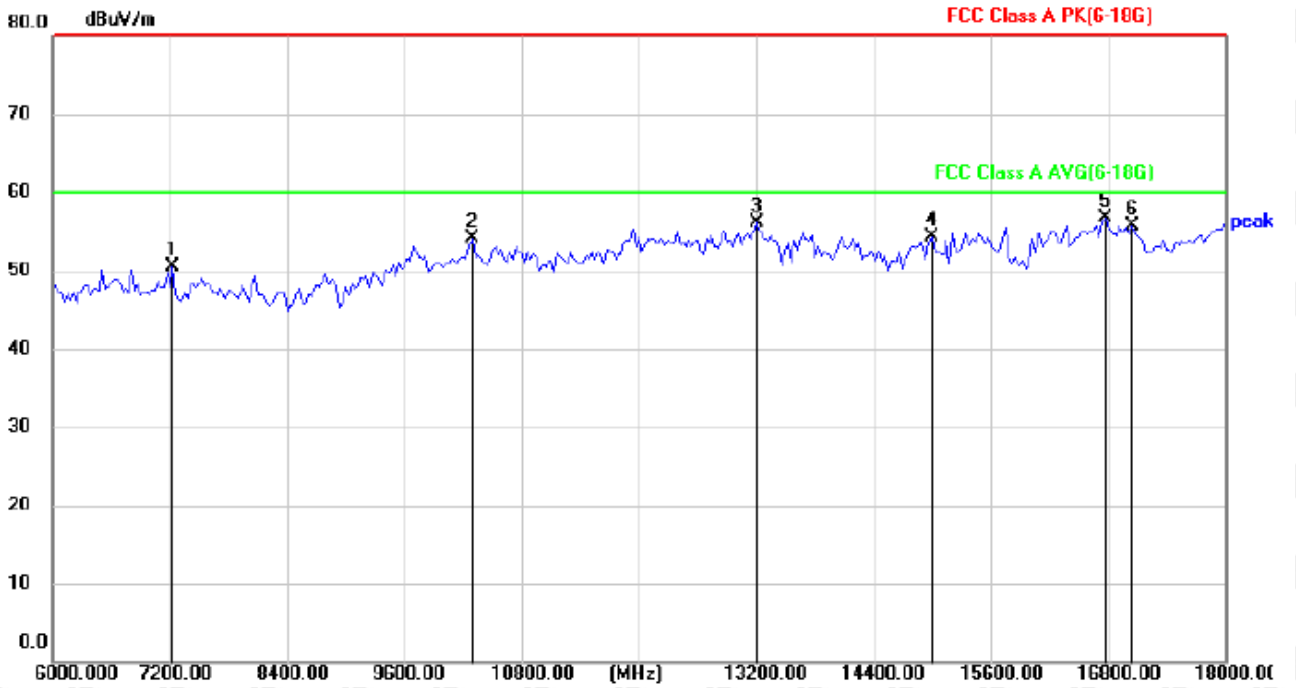
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1201.602	46.81	-2.45	44.36	80.00	-35.64	peak
2		1201.602	34.21	-2.45	31.76	60.00	-28.24	AVG
3		1516.772	43.23	-0.58	42.65	80.00	-37.35	peak
4		1516.772	32.61	-0.58	32.03	60.00	-27.97	AVG
5		1931.837	44.32	1.67	45.99	80.00	-34.01	peak
6		1931.837	31.85	1.67	33.52	60.00	-26.48	AVG
7		2538.859	42.64	2.48	45.12	80.00	-34.88	peak
8		2538.859	30.54	2.48	33.02	60.00	-26.98	AVG
9		3190.457	42.49	3.48	45.97	80.00	-34.03	peak
10		3190.457	30.89	3.48	34.37	60.00	-25.63	AVG
11		4606.530	41.12	7.46	48.58	80.00	-31.42	peak
12	*	4606.530	29.99	7.46	37.45	60.00	-22.55	AVG

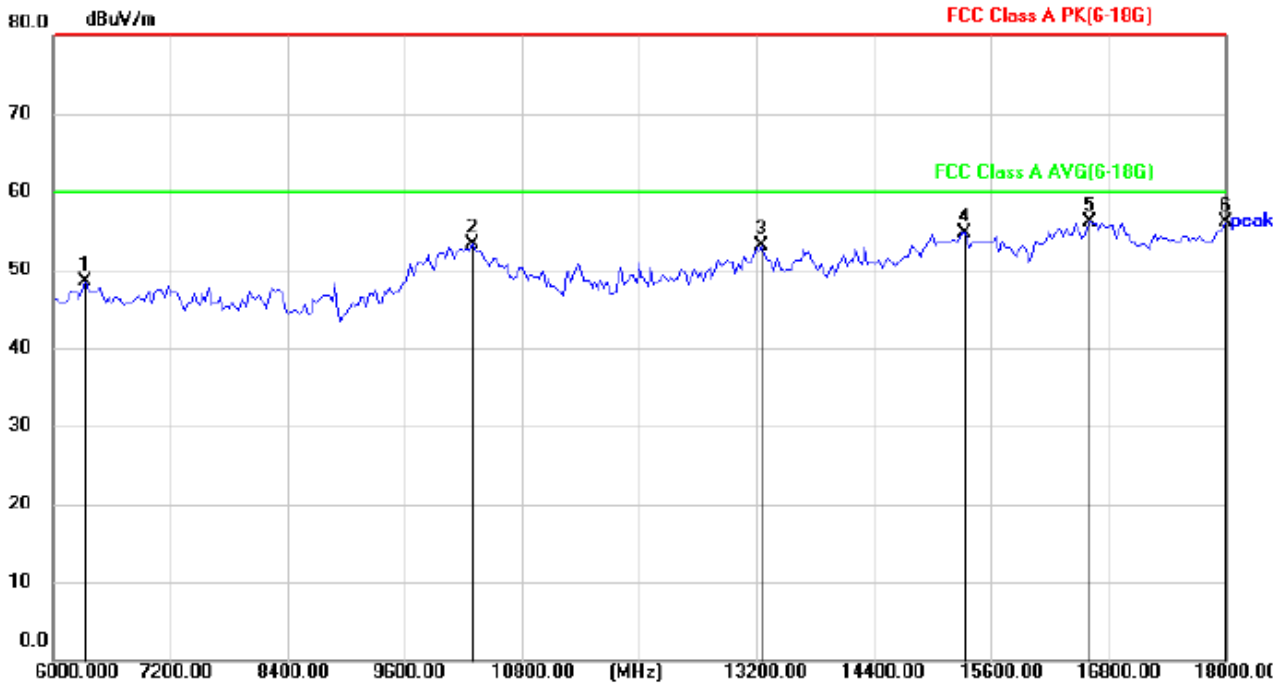
Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



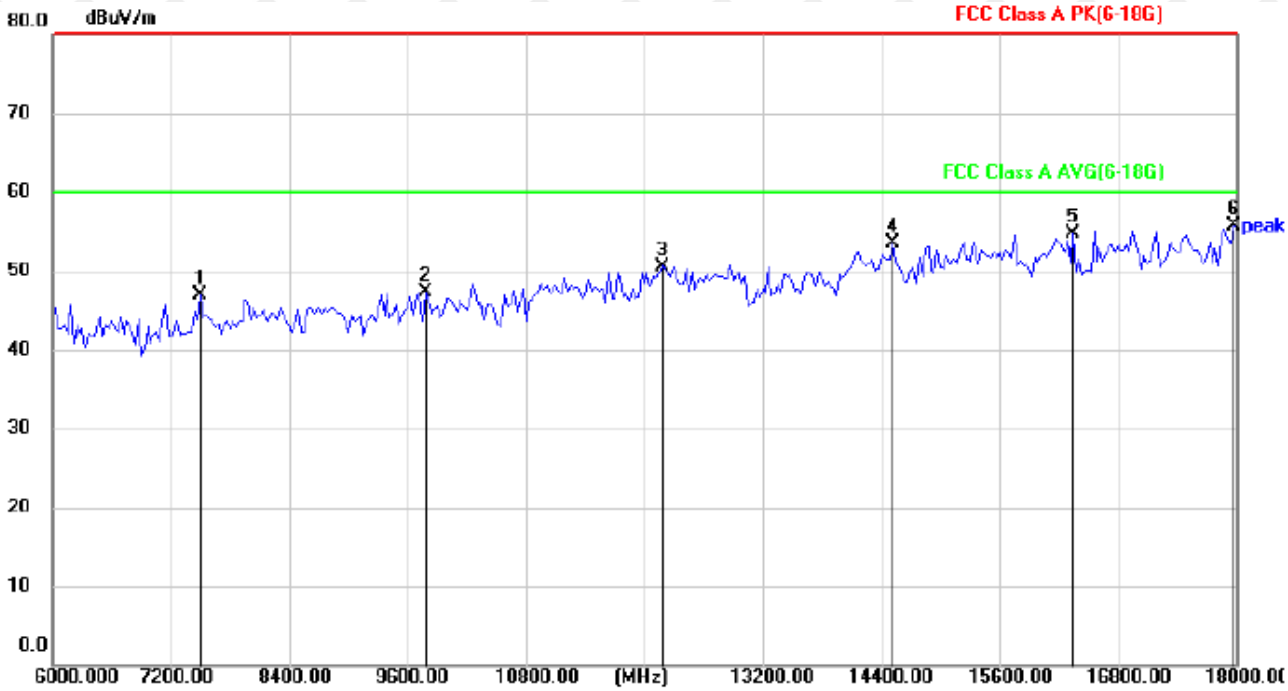
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		7230.000	37.13	13.33	50.46	80.00	-29.54	peak
2		10290.00	34.24	19.83	54.07	80.00	-25.93	peak
3		13200.00	33.46	22.57	56.03	80.00	-23.97	peak
4		15000.00	27.27	27.09	54.36	80.00	-25.64	peak
5	*	16770.00	30.69	26.04	56.73	80.00	-23.27	peak
6		17040.00	28.01	27.73	55.74	80.00	-24.26	peak

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



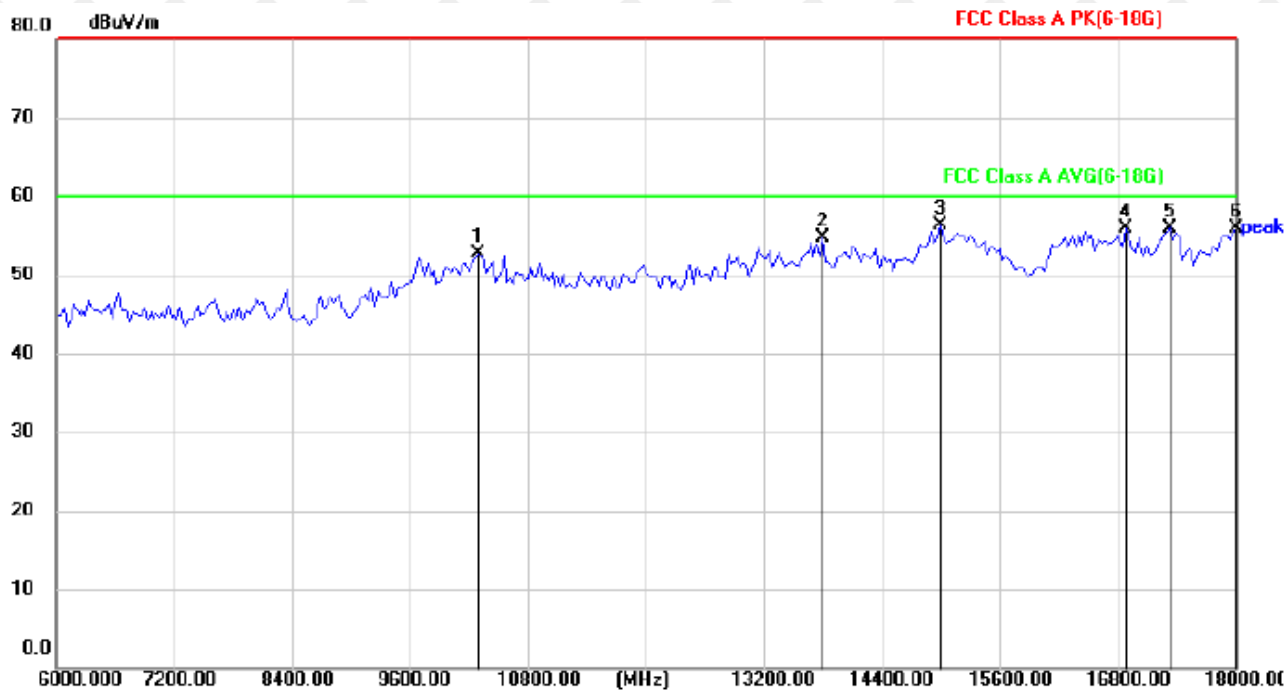
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		6330.000	36.57	12.00	48.57	80.00	-31.43	peak
2		10290.00	33.52	19.83	53.35	80.00	-26.65	peak
3		13260.00	30.55	22.63	53.18	80.00	-26.82	peak
4		15330.00	29.57	25.13	54.70	80.00	-25.30	peak
5		16620.00	30.94	25.09	56.03	80.00	-23.97	peak
6	*	18000.00	22.80	33.37	56.17	80.00	-23.83	peak

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		7500.000	33.30	13.51	46.81	80.00	-33.19	peak
2		9780.000	29.00	18.35	47.35	80.00	-32.65	peak
3		12180.00	29.82	20.78	50.60	80.00	-29.40	peak
4		14520.00	28.14	25.30	53.44	80.00	-26.56	peak
5		16350.00	31.43	23.37	54.80	80.00	-25.20	peak
6	*	17970.00	22.57	33.19	55.76	80.00	-24.24	peak

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		10290.00	32.86	19.83	52.69	80.00	-27.31	peak
2		13800.00	31.57	23.17	54.74	80.00	-25.26	peak
3	*	15000.00	29.27	27.09	56.36	80.00	-23.64	peak
4		16890.00	29.10	26.80	55.90	80.00	-24.10	peak
5		17340.00	26.50	29.50	56.00	80.00	-24.00	peak
6		18000.00	22.50	33.37	55.87	80.00	-24.13	peak

8. Photographs of test setup

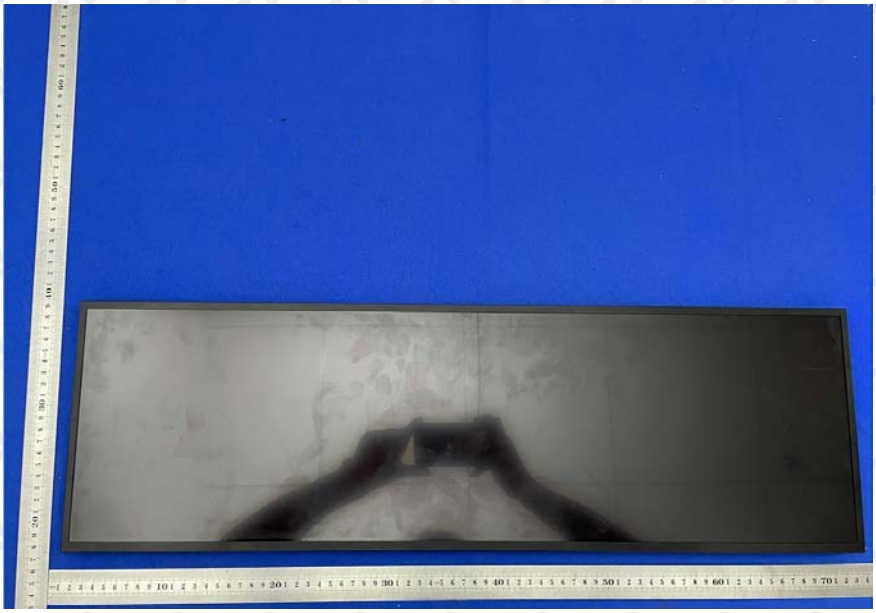
Radiated Emission

Radiated Emission Above 1GHz

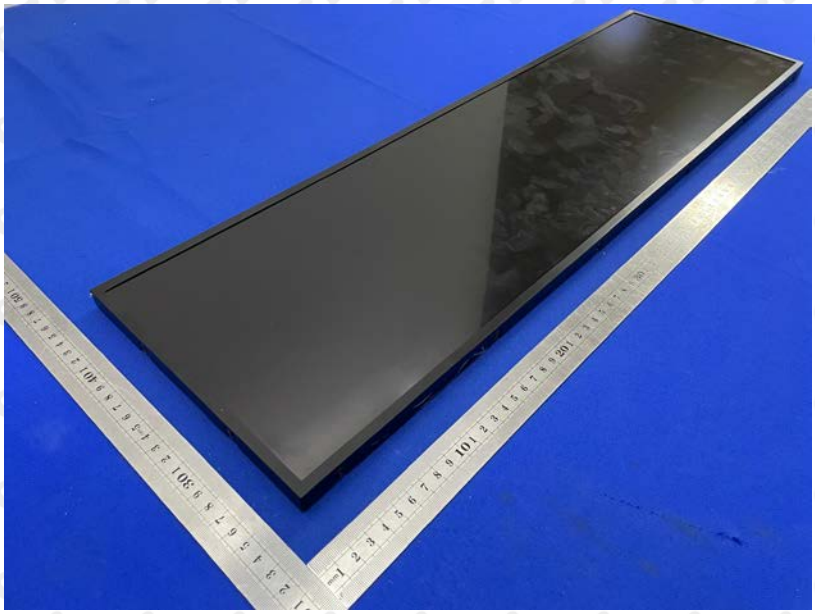
Conducted Emission

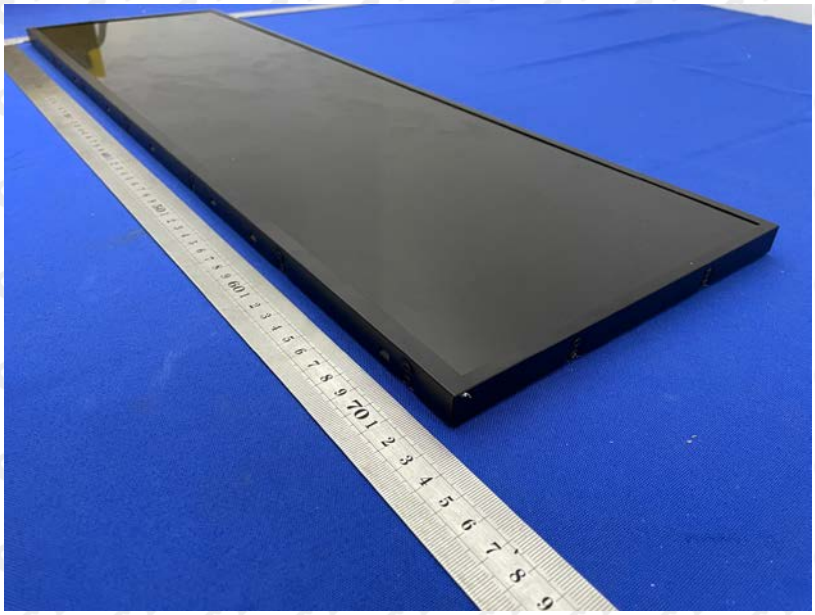
9. Photographs of EUT

EUT photo 1



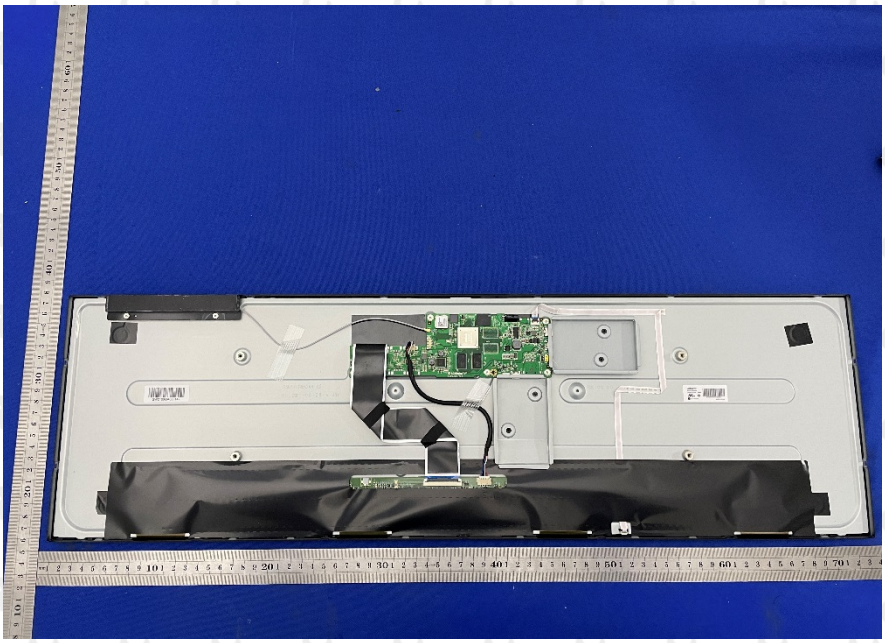
EUT photo 2



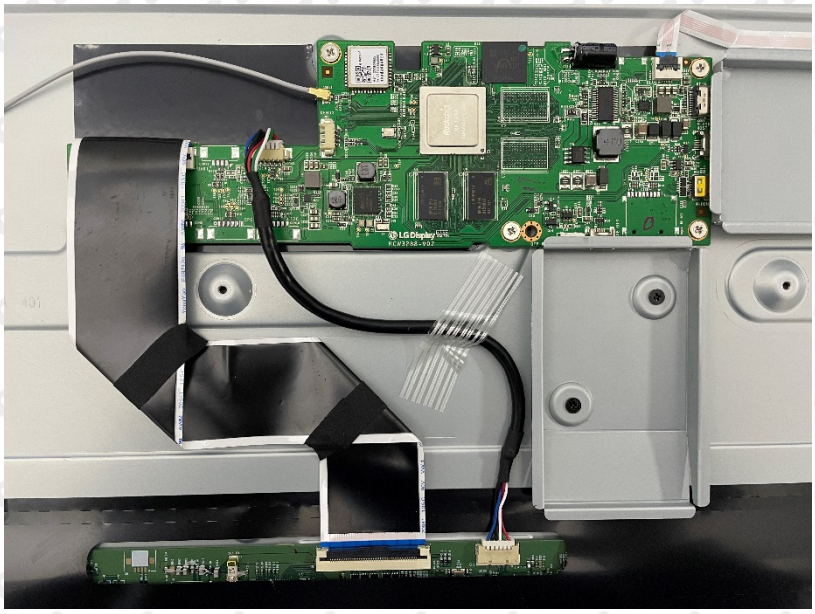


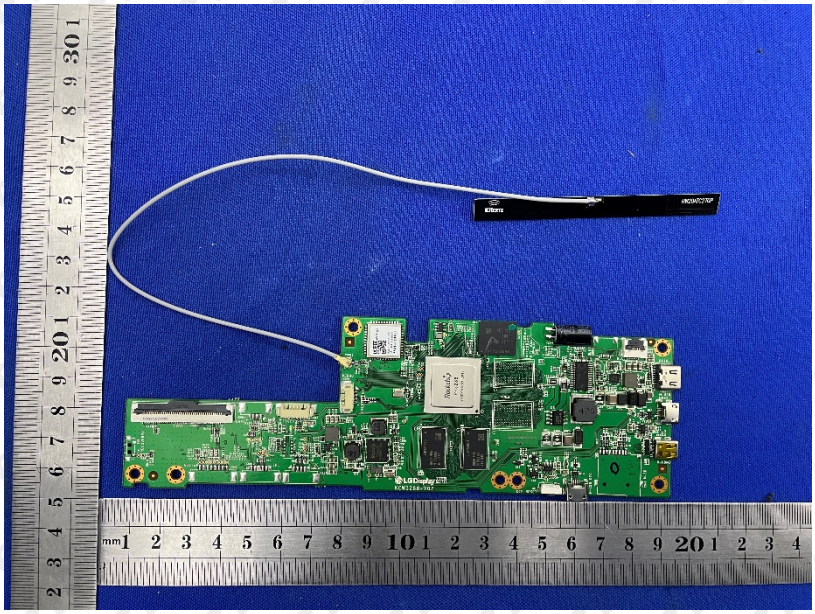
EUT photo 3

EUT photo 4

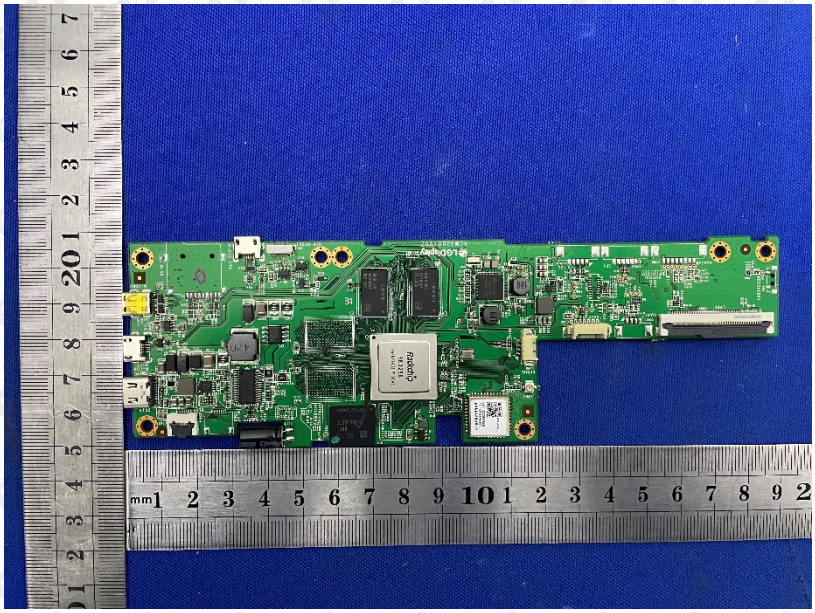


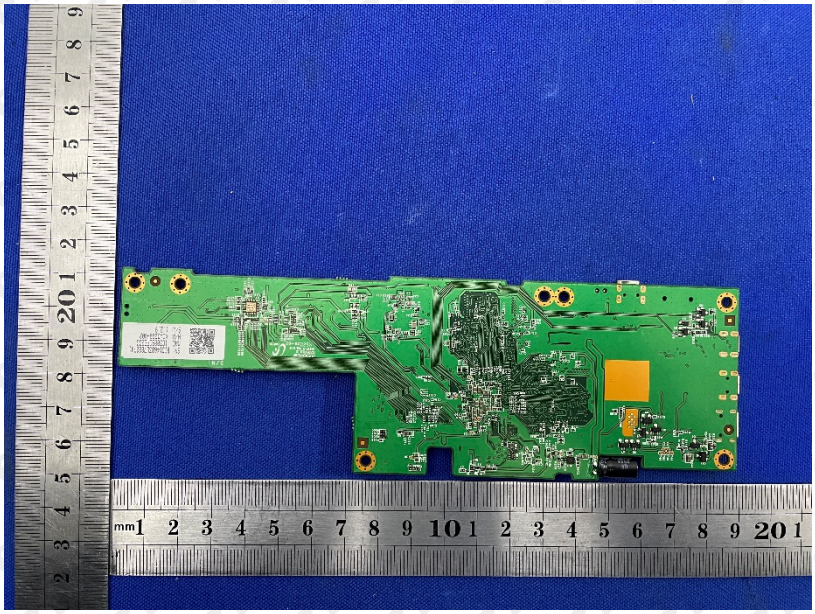
EUT photo 5



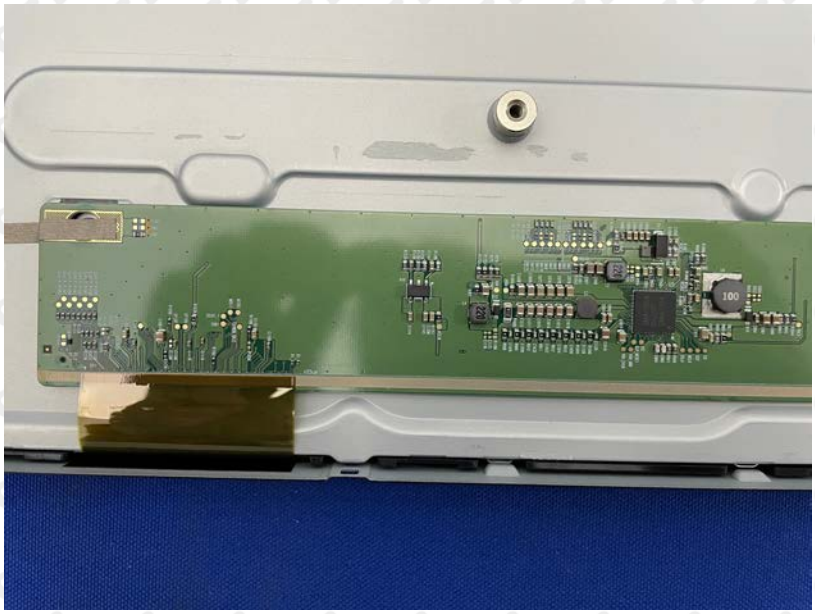


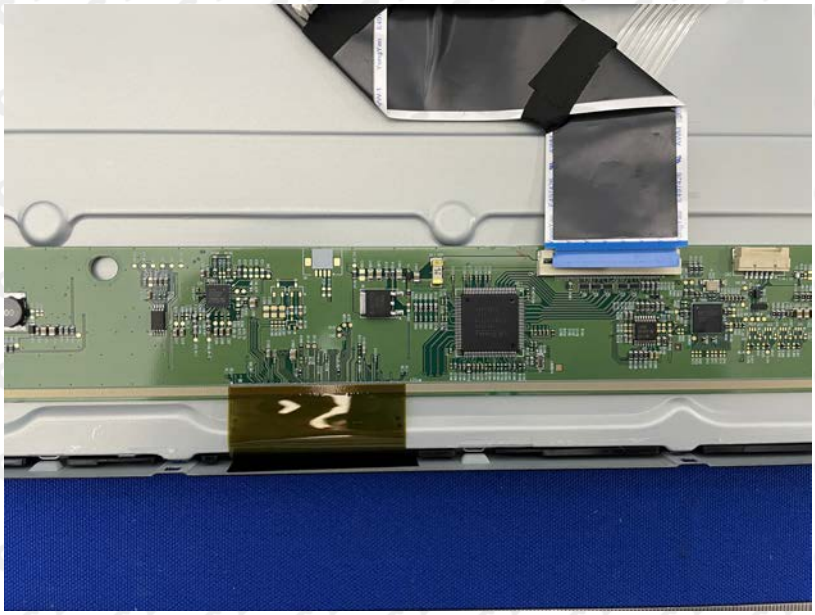
EUT photo 6



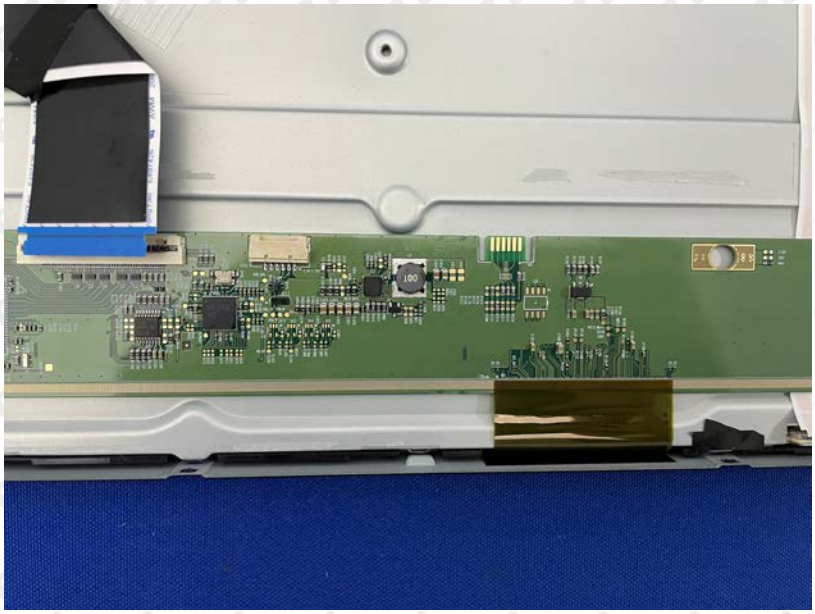


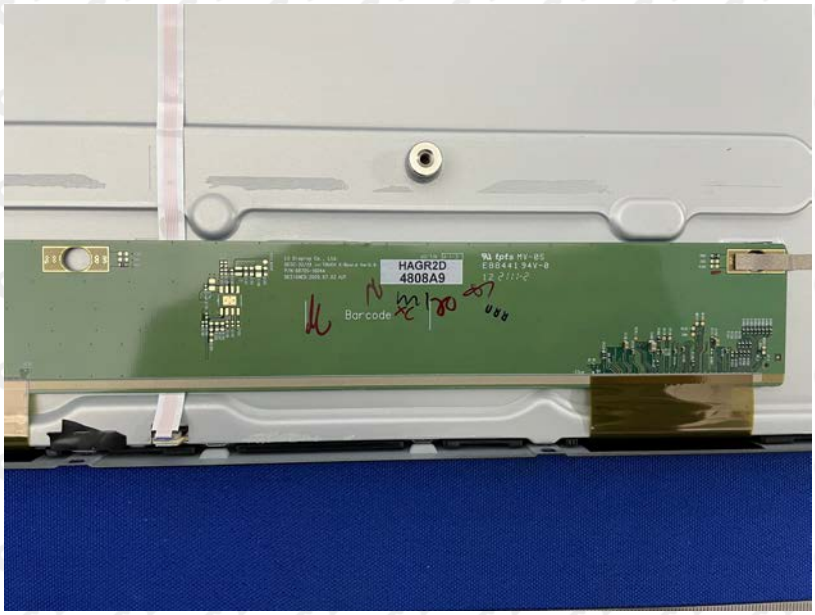
EUT photo 7



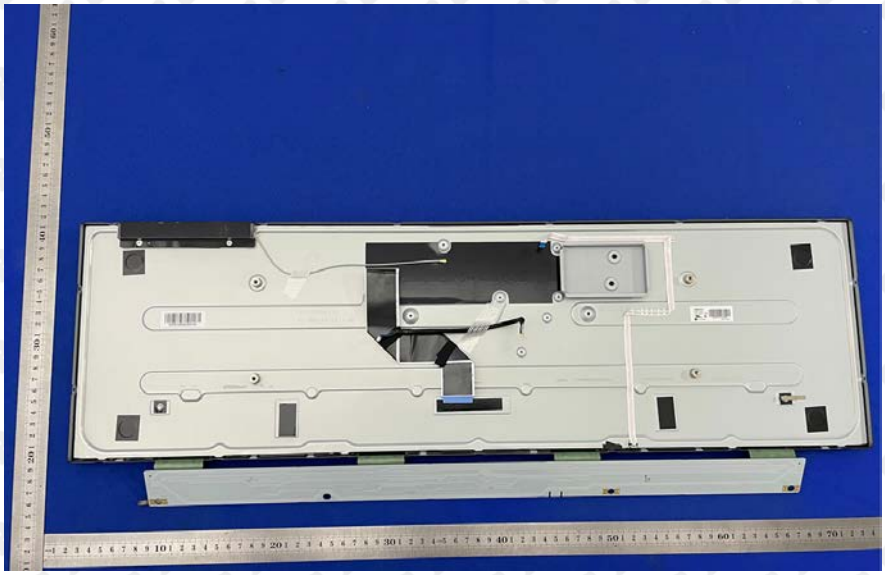


EUT photo 8





EUT photo 9



End of report