



# TEST REPORT

Report No.: DHQ-18JY1860VTSHP  
Test Model: DH-IPC-HFW1831CP-PIR  
Received: Jul.24, 2018  
ISSUED: Aug.6, 2018

Applicant: ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.  
Address: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation  
Lab Location: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

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## 1. TEST PROGRAM

**PRODUCT:** IP CAMERA

**TEST MODEL:** DH-IPC-HFW1831CP-PIR

**SERIES MODEL:** DH-IPC-HFW1831C-PIR; IPC-HFW1831C-PIR; IPC-HFW1831CP-PIR;  
IPC-HFW1831CN-PIR; DH-IPC-HFW1831CP-PIR;  
DH-IPC-HFW1831CN-PIR;

**APPLICANT:** ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

**TESTED:** Jul.24 to Aug.6, 2018

**STANDARDS:** 47 CFR FCC Part15, Subpart B

**ANSI C63.4:2014**

We, BUREAU VERITAS ADT (Shanghai) Corporation, declare that the equipment above has been tested and found compliance with the requirement limits of applicable standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

**PREPARED BY :** Kevin WANG **DATE:** Aug.6, 2018  
Kevin WANG

Testing Engineer

**APPROVED BY :** Joy ZHU **DATE:** Aug.6, 2018  
Joy ZHU

Testing Manager



## 2. Summary of Test Procedure and Test Results

EMISSION(47 CFR FCC Part15, Subpart B)		
Test Item	Normative References	Test Result
Conducted Emission	47 CFR FCC Part15, Subpart B 15.107	Meets the Class B requirements
Radiated Emission	47 CFR FCC Part15, Subpart B 15.109	Meets the Class B requirements



### 3. Test Configuration of Equipment under Test

#### 3.1. Manufacturer information

Manufacturer : ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

Address : No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

#### 3.2. Factory information

Factory (1) : ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

Address : No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

Factory (2) : ZHEJIANG DAHUA ZHILIAN CO.,LTD.

Address : No.28, Dongqiao Road, Dongzhou Street, Fuyang District, Hangzhou, P.R.China.

#### 3.3. Feature of Equipment under Test

<b>Product Name:</b>	IP CAMERA
<b>Test Model:</b>	DH-IPC-HFW1831CP-PIR
<b>Series Model:</b>	DH-IPC-HFW1831C-PIR; IPC-HFW1831C-PIR; IPC-HFW1831CP-PIR; IPC-HFW1831CN-PIR; DH-IPC-HFW1831CP-PIR; DH-IPC-HFW1831CN-PIR;
<b>Model Discrepancy:</b>	All models have different appearance and model name.
<b>EUT Power Rating:</b>	12VDC/1A; POE ( 802.3af , 37-57VDC ) 0.35A

Note: Please refer to user manual.

#### 3.4. Description of support units

NO.	PRODUCT	BRAND	MODEL NO.
1	PC	Lenovo	Thinkpad L470
2	AC adapter	--	ADS-12AM-12 12012EPCN
3	Network Cable	--	--
4	POE injector	TP-LINK	TL-POE150S



### 3.5. Measurement Uncertainty

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

This listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement		Value
Conducted emissions		2.55 dB
Radiated emissions	30 MHz ~ 1GHz	3.22 dB
	Above 1GHz	2.89 dB

## 4. Test of Conducted Emission

### 4.1. Test Limit

**TEST STANDARD:**

**CFR 47 FCC Part 15, Subpart B (Section: 15.107)**

FREQUENCY (MHz)	Class A (dB $\mu$ V)		Class B (dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- NOTES:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.







#### 4.4. Measurement Equipment

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Mar.05, 2019
LISN ROHDE & SCHWARZ	ENV216	E1L1011	Jul.18, 2019
Software ADT	ADT_Cond_V7.3.0	N/A	N/A

## 4.5. Test Result and Data

### 4.5.1 Conducted Emission Test Data

For DC12V port test on AC adapter

Phase : LINE

Location: Conduction 1

Date: 7/25/2018

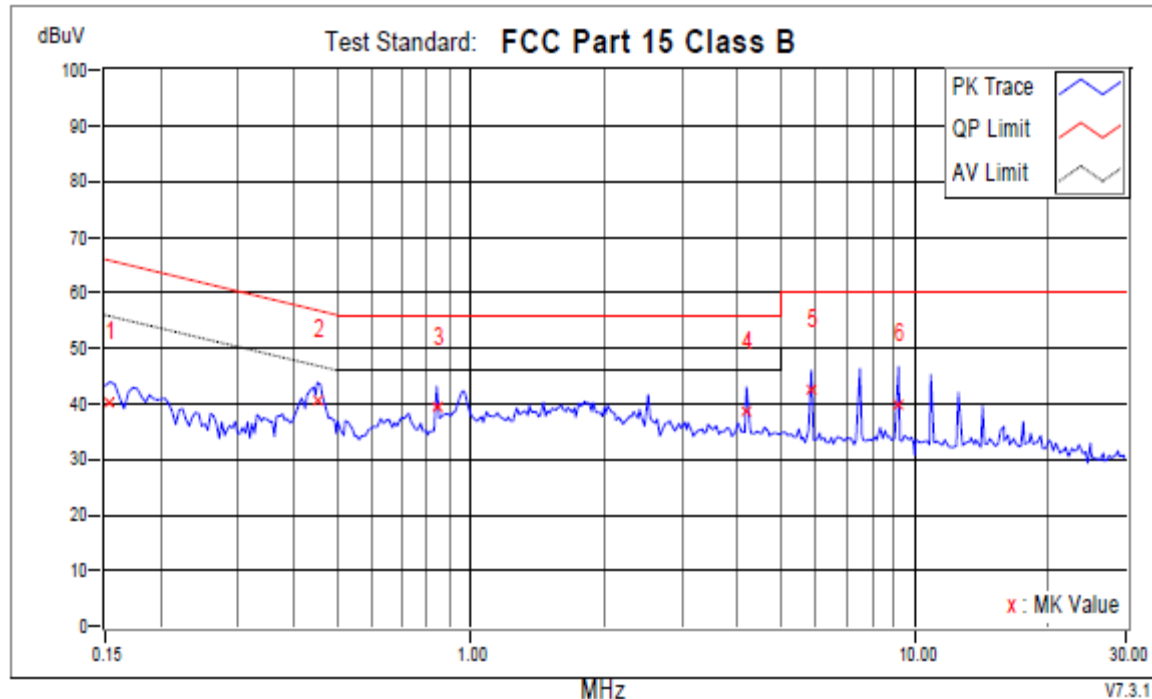
Time: 8:35:11 PM

Phase L1

Temperatuer (C): 22

Humidity (%): 48

Approved by:



	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15391	9.60	30.68	14.81	40.28	24.41	65.79	55.79	-25.51	-31.38	
2	0.45107	9.60	30.90	21.86	40.50	31.46	56.86	46.86	-16.36	-15.40	
+3	0.83816	9.60	30.00	24.30	39.60	33.90	56.00	46.00	-16.40	-12.10	
4	4.17883	9.61	29.12	23.48	38.73	33.09	56.00	46.00	-17.27	-12.91	
5	5.85231	9.66	33.10	27.47	42.76	37.13	60.00	50.00	-17.24	-12.87	
6	9.19536	9.26	30.52	25.66	39.78	34.92	60.00	50.00	-20.22	-15.08	

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase : NEUTRAL

Location: Conduction 1

Date: 7/25/2018

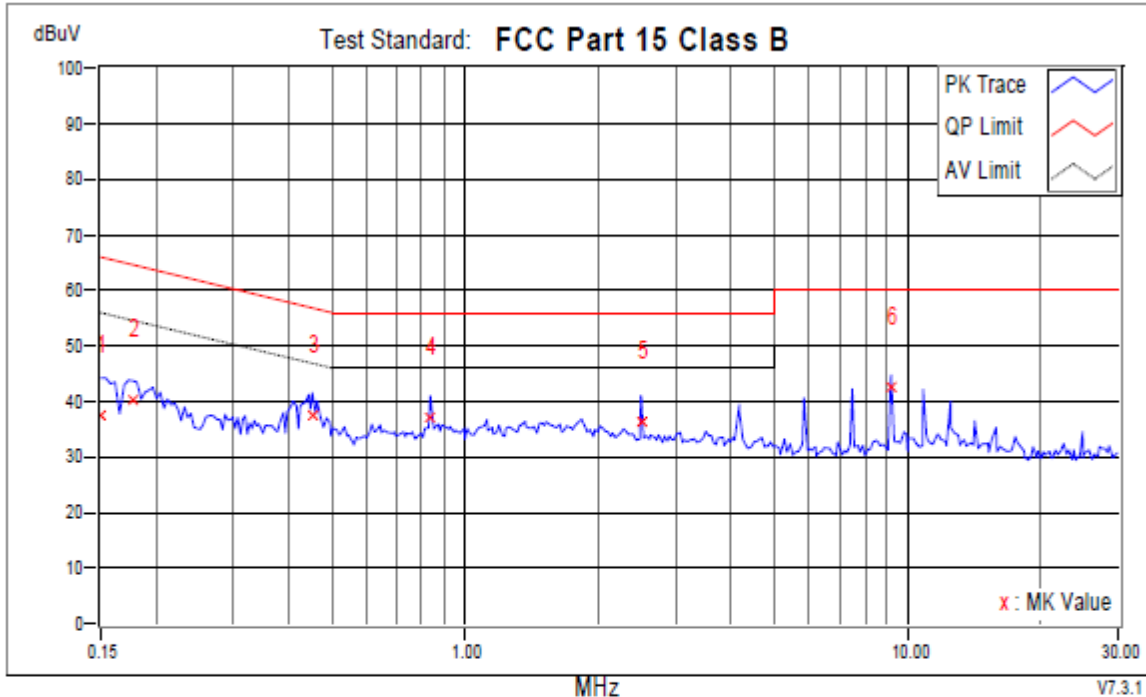
Time: 8:31:56 PM

Phase N

Temperature (C): 22

Humidity (%): 48

Approved by:



No.	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15000	9.60	27.88	13.55	37.48	23.15	66.00	56.00	-28.52	-32.85	
2	0.17737	9.60	30.56	14.40	40.16	24.00	64.61	54.61	-24.45	-30.61	
3	0.45107	9.60	28.00	20.42	37.60	30.02	56.86	46.86	-19.26	-16.84	
4	0.83425	9.60	27.38	20.49	36.98	30.09	56.00	46.00	-19.02	-15.91	
5	2.50603	9.60	26.64	20.76	36.24	30.36	56.00	46.00	-19.76	-15.64	
+6	9.19290	9.77	32.82	30.19	42.59	39.96	60.00	50.00	-17.41	-10.04	

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

For POE port test on POE adapter

Phase : LINE

Location: Conduction 1

Date: 7/25/2018

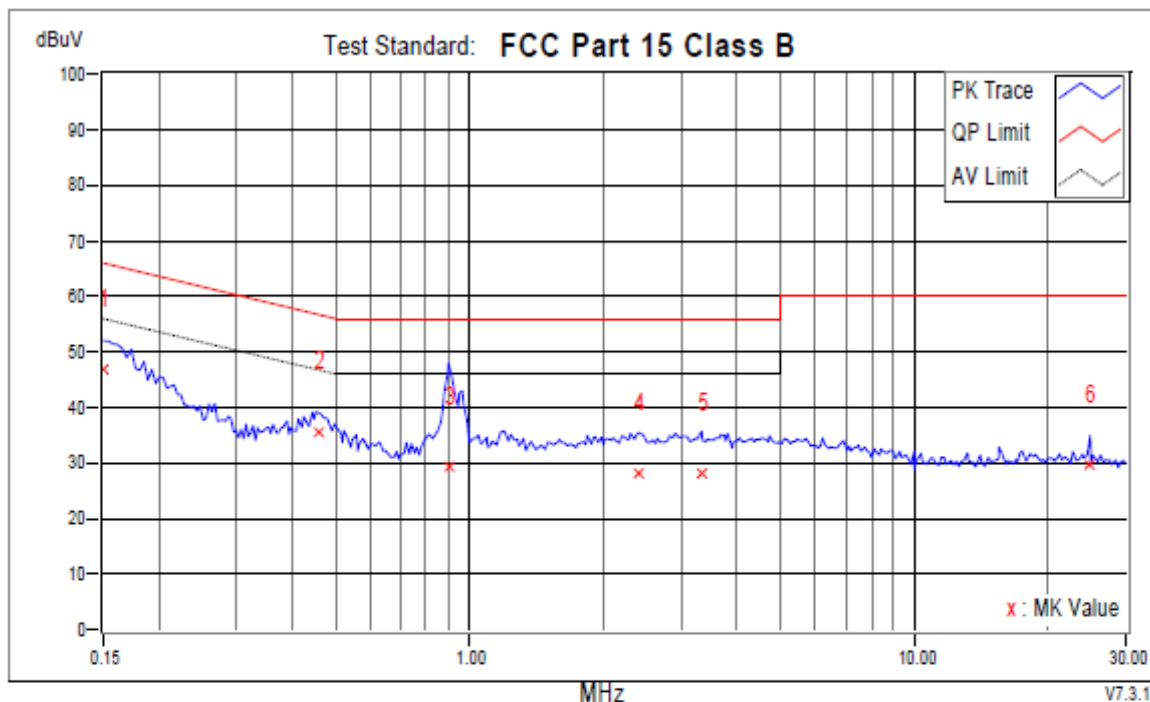
Time: 8:22:58 PM

Phase L1

Temperature (C): 22

Humidity (%): 48

Approved by:



No.	Frequency MHz	Corr. Factor dB	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
			QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15000	9.60	37.14	20.58	46.74	30.18	66.00	56.00	-19.26	-25.82	
+2	0.45889	9.60	26.14	18.37	35.74	27.97	56.71	46.71	-20.97	-18.74	
3	0.89681	9.60	19.74	13.17	29.34	22.77	56.00	46.00	-26.66	-23.23	
4	2.39978	9.60	18.64	10.85	28.24	20.45	56.00	46.00	-27.76	-25.55	
5	3.32645	9.60	18.54	10.75	28.14	20.35	56.00	46.00	-27.86	-25.65	
6	24.87364	9.91	19.90	14.06	29.81	23.97	60.00	50.00	-30.19	-26.03	

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase : NEUTRAL

Location: Conduction 1

Date: 7/25/2018

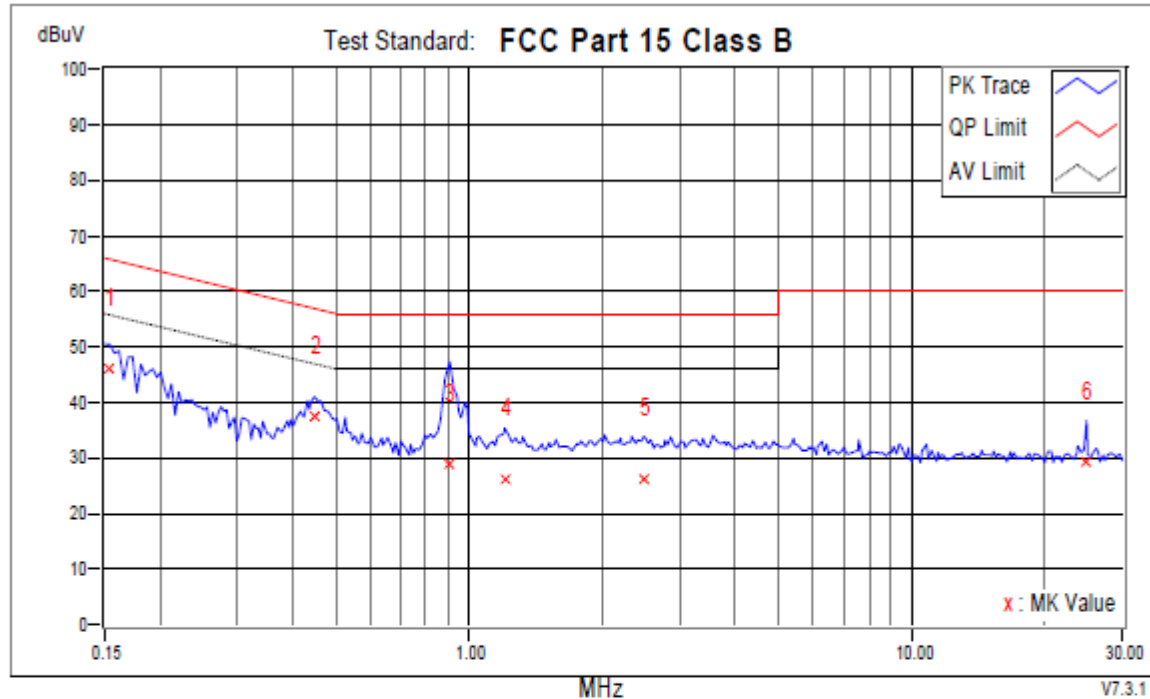
Time: 8:26:15 PM

Phase N

Temperatuer (C): 22

Humidity (%): 48

Approved by:



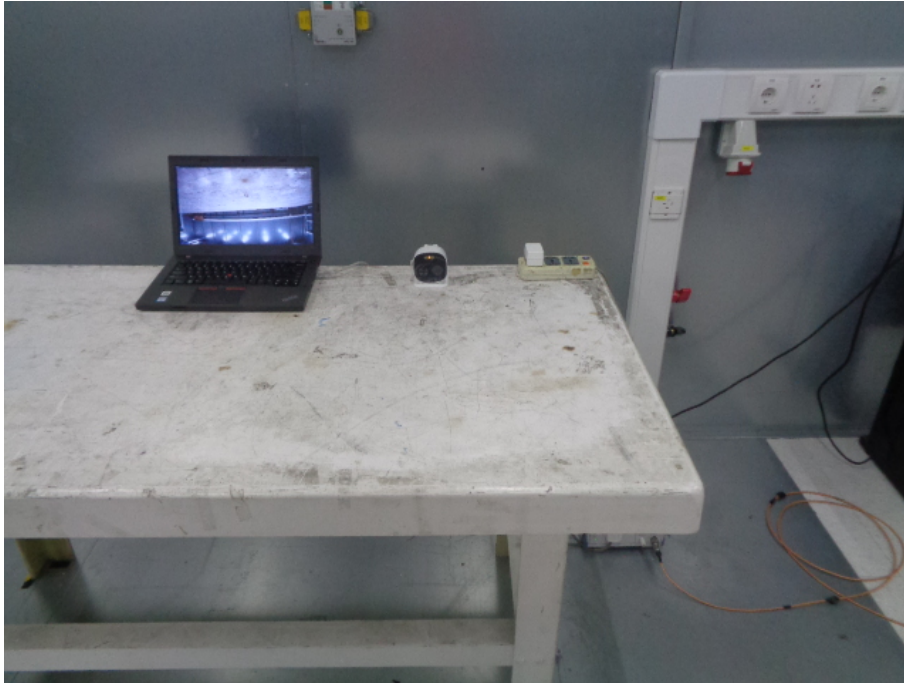
No.	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15391	9.60	36.56	20.41	46.16	30.01	65.79	55.79	-19.63	-25.78	
+2	0.44716	9.60	27.88	20.36	37.48	29.96	56.93	46.93	-19.45	-16.97	
3	0.90463	9.60	19.20	12.68	28.80	22.28	56.00	46.00	-27.20	-23.72	
4	1.20332	9.60	16.62	10.10	26.22	19.70	56.00	46.00	-29.78	-26.30	
5	2.48189	9.60	16.58	8.87	26.18	18.47	56.00	46.00	-29.82	-27.53	
6	24.86582	10.00	19.38	15.06	29.38	25.06	60.00	50.00	-30.62	-24.94	

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

#### 4.6. Test Photographs

AC adapter



POE adapter





## 5. Test of Radiated Emission

### 5.1. Test Limit

#### TEST STANDARD:

CFR 47 FCC Part 15, Subpart B (Section: 15.109)

#### FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

#### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

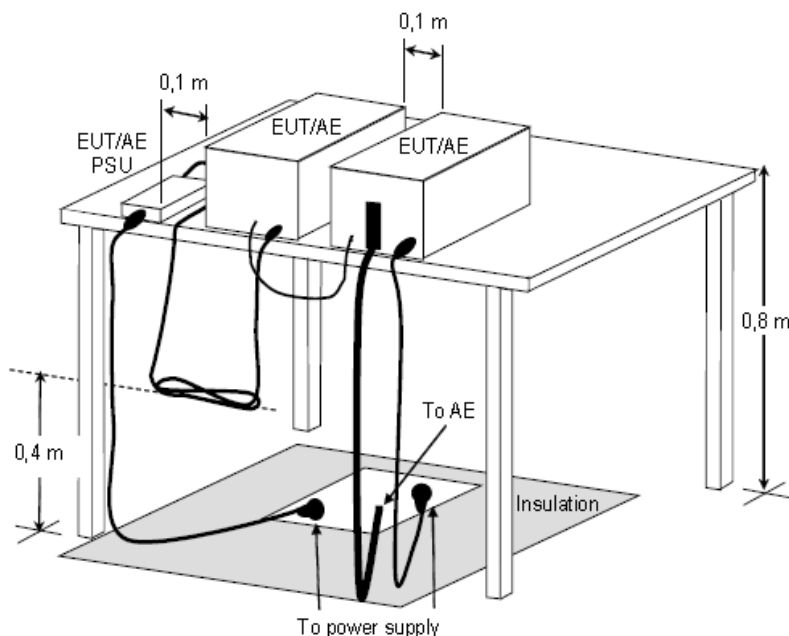
FREQUENCY (MHz)	Class A ( $\text{dB}\mu\text{V/m}$ ) (at 3m)		Class B ( $\text{dB}\mu\text{V/m}$ ) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

- Note:** (1) The lower limit shall apply at the transition frequencies.  
 (2) Emission level ( $\text{dB}\mu\text{V/m}$ ) =  $20 \log$  Emission level ( $\mu\text{V/m}$ ).  
 (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

## 5.2. Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

## 5.3. Typical Test Setup



**Figure D.8 – Example measurement arrangement for table-top EUT  
(Radiated emission measurement)**





#### 5.4. Measurement Equipment

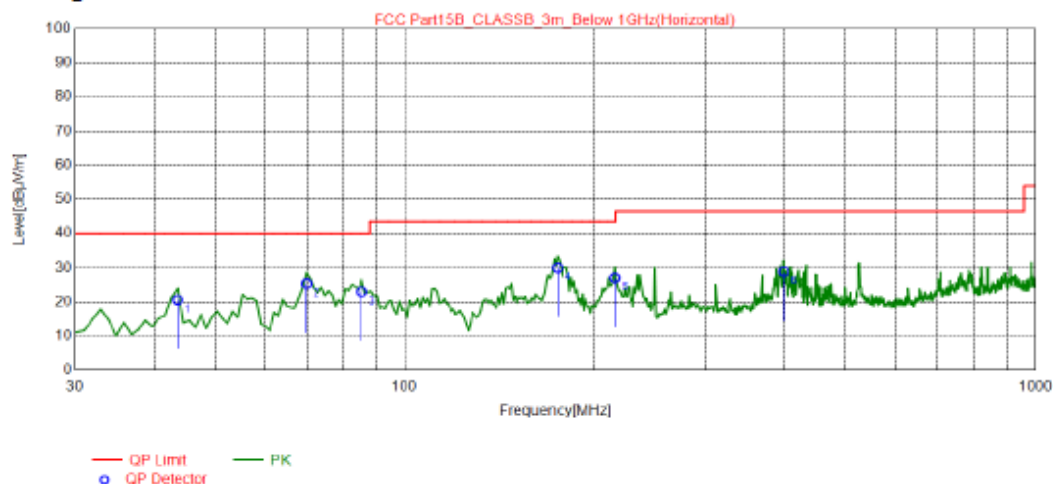
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
EMI Test Spectrum ROHDE & SCHWARZ	ESR7	E1R1005	Dec.04, 2018
Broad-Band Antenna Schwarzbeck	VULB9168	E1A1001	Feb.27, 2019
Double Riaged Vroadband Horn Antenna Schwarzbeck	BBHA9120D	E1A1017	Aug.26, 2019
Preamplifier Agilent	8447D	E1A2001	Oct.18, 2018
Preamplifier Agilent	8449B	E1A2002	Mar.26, 2019

## 5.5. Test Result and Data (30MHz ~ 1GHz)

For DC12V port test on AC adapter

Position: Horizontal

**Test Graph**



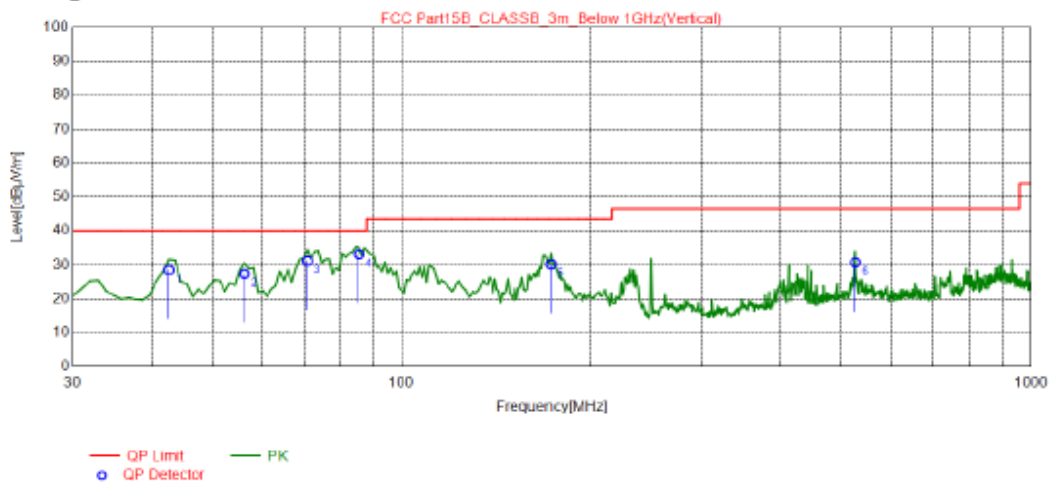
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.593	37.8	-17.23	40.00	19.43	100	13	Horizontal
2	69.809	43.62	-18.32	40.00	14.70	100	13	Horizontal
3	85.345	43.74	-20.80	40.00	17.06	100	13	Horizontal
4	174.67	46.52	-16.54	43.50	13.52	200	150	Horizontal
5	215.45	45.6	-18.56	43.50	16.46	100	183	Horizontal
6	398.96	42.18	-13.28	46.50	17.60	100	157	Horizontal

### REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value
4. Factor = Antenna Factor + Amplifier Factor + Cable loss
5. QP value = Factor + Reading Value.

Position: Vertical

### Test Graph



NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.622	45.76	-17.29	40.00	11.53	100	168	Vertical
2	56.216	44.92	-17.58	40.00	12.66	100	123	Vertical
3	70.780	49.65	-18.50	40.00	8.85	100	317	Vertical
4	85.498	53.91	-20.80	40.00	6.89	108.1	117.9	Vertical
5	172.73	46.53	-16.36	43.50	13.33	100	13	Vertical
6	526.16	41.66	-10.96	46.50	15.80	100	205	Vertical

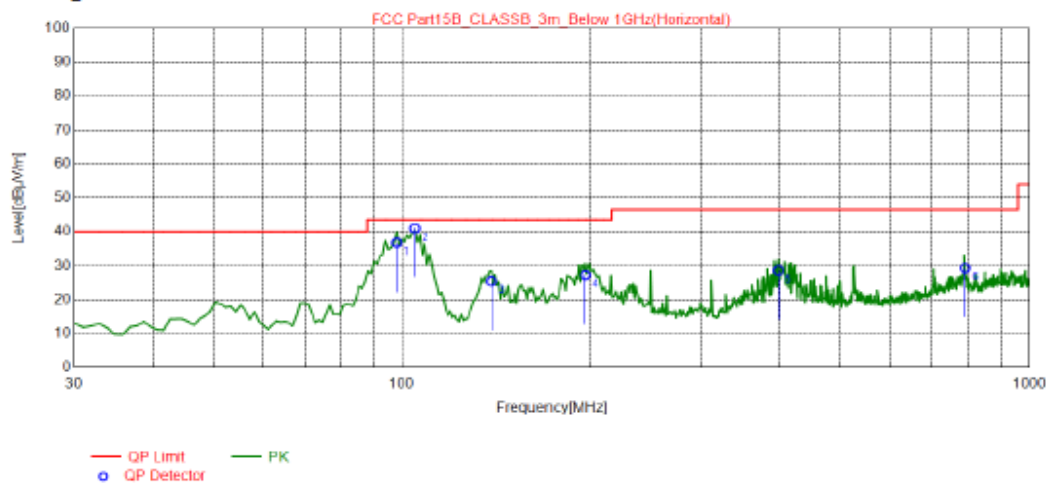
### REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value
4. Factor = Antenna Factor + Amplifier Factor + Cable loss
5. QP value = Factor + Reading Value.

For POE port test on POE adapter

Position: Horizontal

### Test Graph



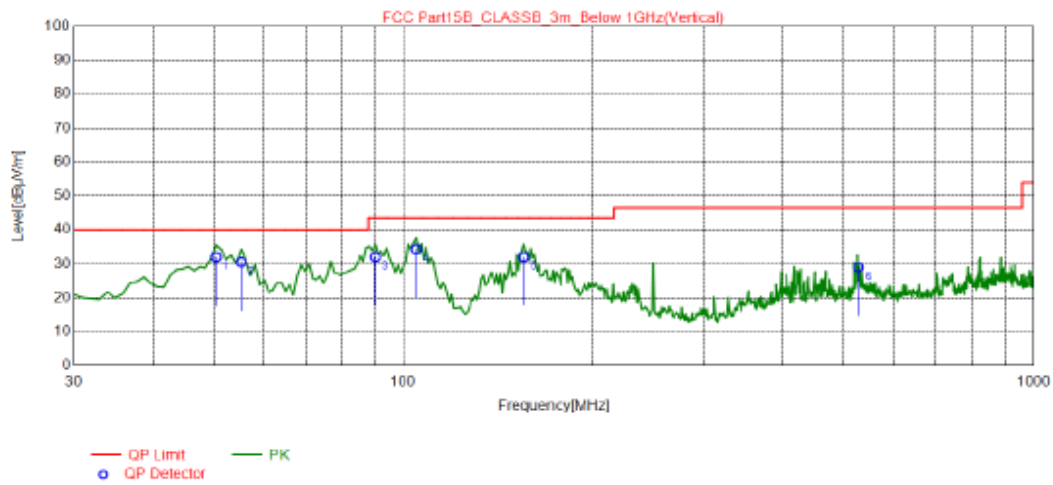
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	97.968	56.99	-20.24	43.50	6.75	200	159	Horizontal
2	104.74	60.63	-19.66	43.50	2.53	217.6	156	Horizontal
3	138.74	42.7	-17.31	43.50	18.11	200	120	Horizontal
4	196.03	45.97	-18.73	43.50	16.26	200	140	Horizontal
5	397.99	41.94	-13.31	46.50	17.87	200	30	Horizontal
6	790.27	36.67	-7.33	46.50	17.16	100	236	Horizontal

### REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value
4. Factor = Antenna Factor + Amplifier Factor + Cable loss
5. QP value = Factor + Reading Value.

Position: Vertical

### Test Graph



NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.390	48.88	-16.84	40.00	7.96	100	88	Vertical
2	55.245	47.97	-17.46	40.00	9.49	100	111	Vertical
3	90.200	53.1	-21.04	43.50	11.44	100	44	Vertical
4	104.76	53.9	-19.65	43.50	9.25	100	214	Vertical
5	155.25	48.5	-16.43	43.50	11.43	100	205	Vertical
6	527.13	39.94	-10.95	46.50	17.51	100	221	Vertical

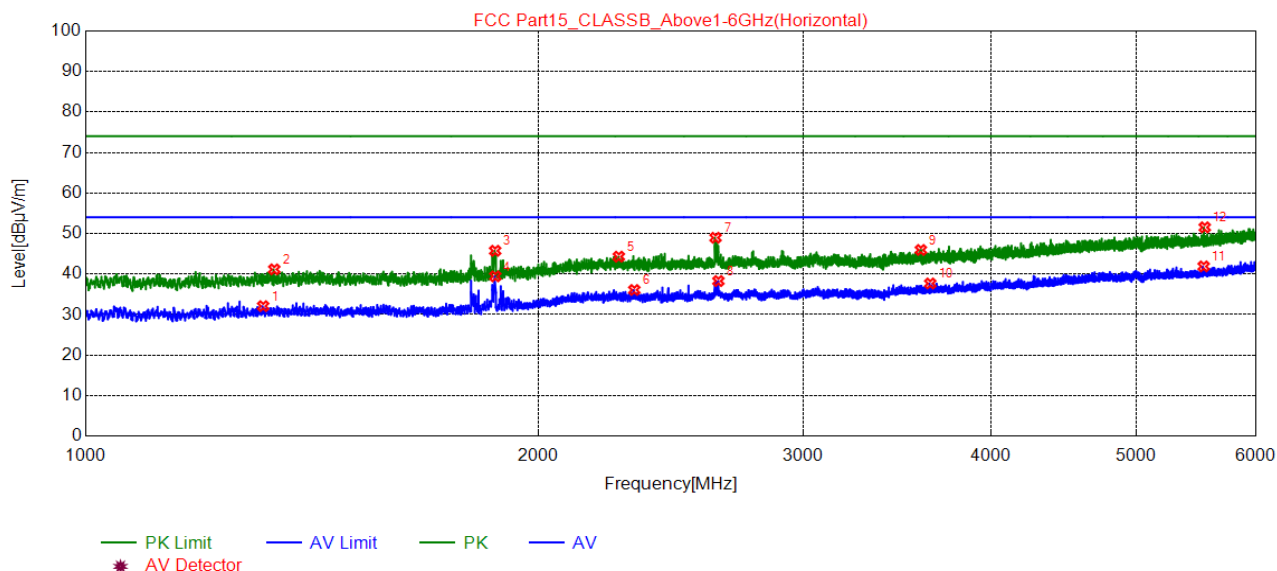
### REMARKS:

1. Q.P. is abbreviation of quasi-peak individually.
2. The emission levels of other frequencies were very low against the limit.
3. QP Margin value = QP Limit value – QP value
4. Factor = Antenna Factor + Amplifier Factor + Cable loss
5. QP value = Factor + Reading Value.

## 5.6. Test Result and Data (1GHz ~ 6GHz)

For DC12V port test on AC adapter

Position: Horizontal

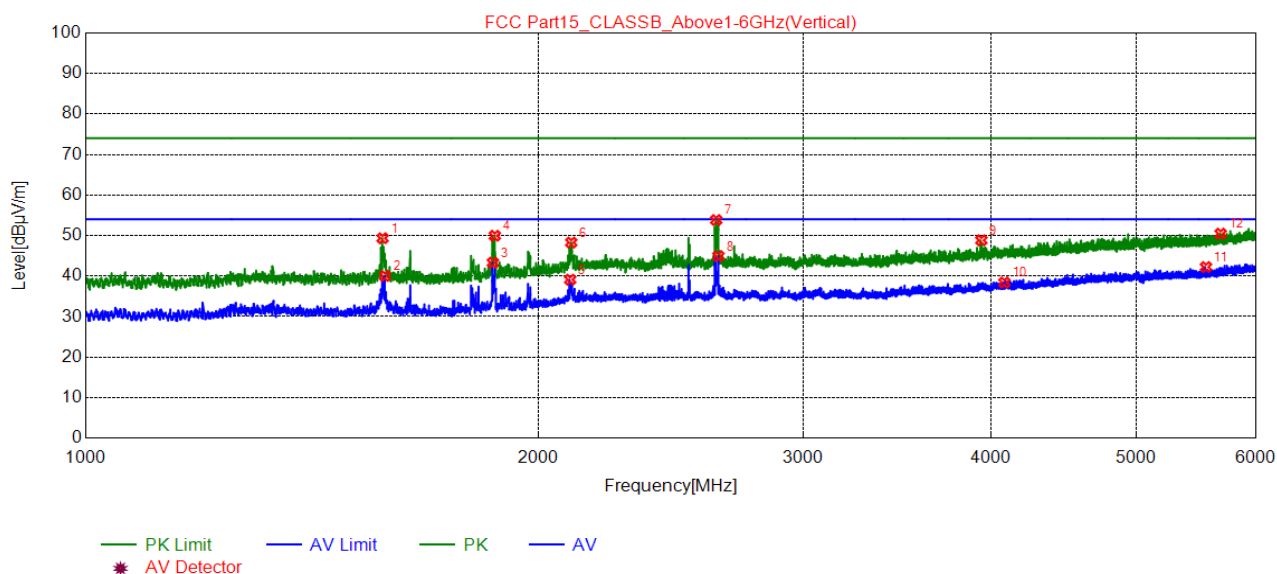


NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1312.0	32.08	54.00	21.92	100	343	Horizontal	AV
2	1334.5	41.16	74.00	32.84	100	343	Horizontal	PK
3	1872.0	45.74	74.00	28.26	100	280	Horizontal	PK
4	1872.5	39.44	54.00	14.56	100	343	Horizontal	AV
5	2262.5	44.30	74.00	29.70	100	259	Horizontal	PK
6	2317.0	36.07	54.00	17.93	100	264	Horizontal	AV
7	2624.0	48.97	74.00	25.03	100	218	Horizontal	PK
8	2635.5	38.28	54.00	15.72	100	223	Horizontal	AV
9	3594.0	45.95	74.00	28.05	100	269	Horizontal	PK
10	3646.0	37.67	54.00	16.33	100	249	Horizontal	AV
11	5543.5	41.89	54.00	12.11	100	290	Horizontal	AV
12	5552.5	51.53	74.00	22.47	100	338	Horizontal	PK

### REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit –Level

Position: Vertical



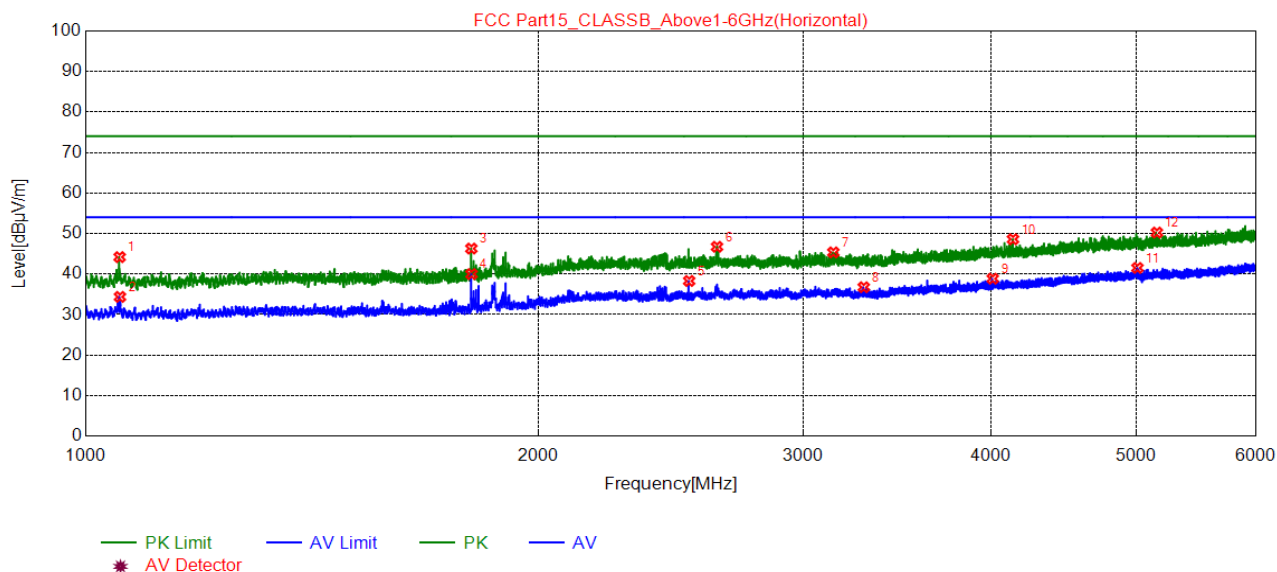
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1575.5	49.34	74.00	24.66	100	85	Vertical	PK
2	1581.0	40.03	54.00	13.97	100	174	Vertical	AV
3	1865.5	43.30	54.00	10.70	100	74	Vertical	AV
4	1871.0	49.95	74.00	24.05	100	80	Vertical	PK
5	2100.0	39.11	54.00	14.89	100	174	Vertical	AV
6	2103.5	48.28	74.00	25.72	100	163	Vertical	PK
7	2626.5	53.83	74.00	20.17	100	189	Vertical	PK
8	2635.5	44.92	54.00	9.08	100	189	Vertical	AV
9	3943.0	48.83	74.00	25.17	100	195	Vertical	PK
10	4084.5	38.41	54.00	15.59	100	53	Vertical	AV
11	5563.0	42.23	54.00	11.77	100	121	Vertical	AV
12	5689.5	50.47	74.00	23.53	100	236	Vertical	PK

**REMARKS:**

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit – Level

For POE port test on POE adapter

Position: Horizontal



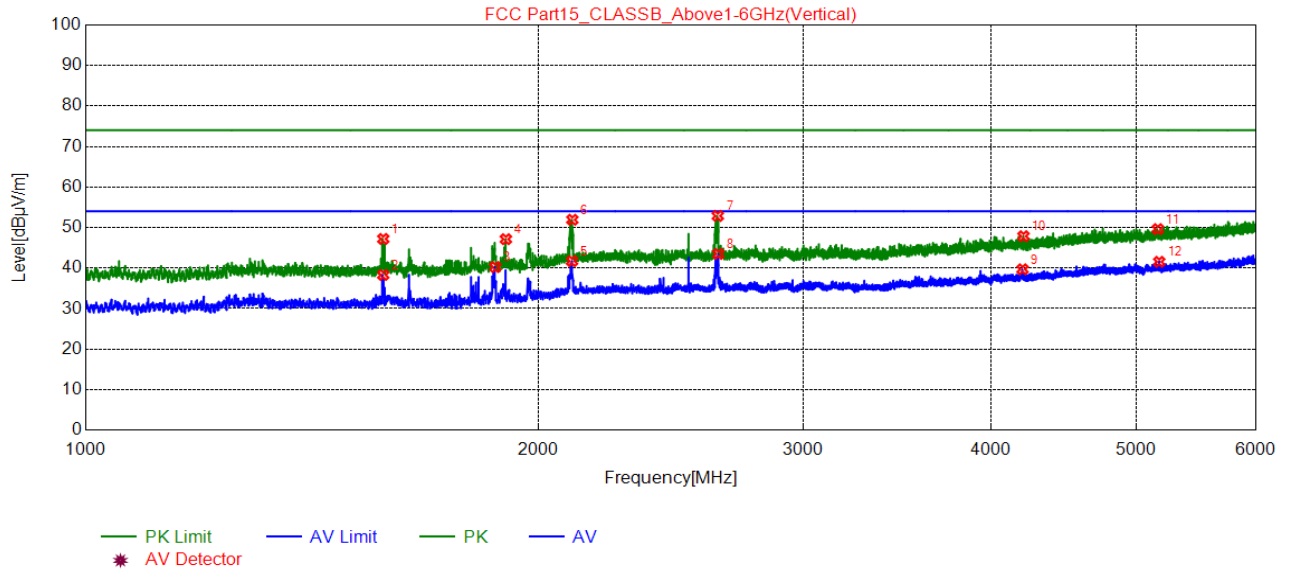
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1053.0	44.19	74.00	29.81	100	127	Horizontal	PK
2	1053.5	34.37	54.00	19.63	100	127	Horizontal	AV
3	1805.0	46.29	74.00	27.71	100	33	Horizontal	PK
4	1805.5	39.99	54.00	14.01	100	142	Horizontal	AV
5	2520.0	38.30	54.00	15.70	100	59	Horizontal	AV
6	2630.0	46.73	74.00	27.27	100	127	Horizontal	PK
7	3143.0	45.35	74.00	28.65	100	74	Horizontal	PK
8	3293.0	36.75	54.00	17.25	100	158	Horizontal	AV
9	4012.5	38.85	54.00	15.15	100	22	Horizontal	AV
10	4139.0	48.59	74.00	25.41	100	17	Horizontal	PK
11	5008.5	41.52	54.00	12.48	100	168	Horizontal	AV
12	5160.0	50.24	74.00	23.76	100	17	Horizontal	PK

**REMARKS:**

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit – Level



Position: Vertical

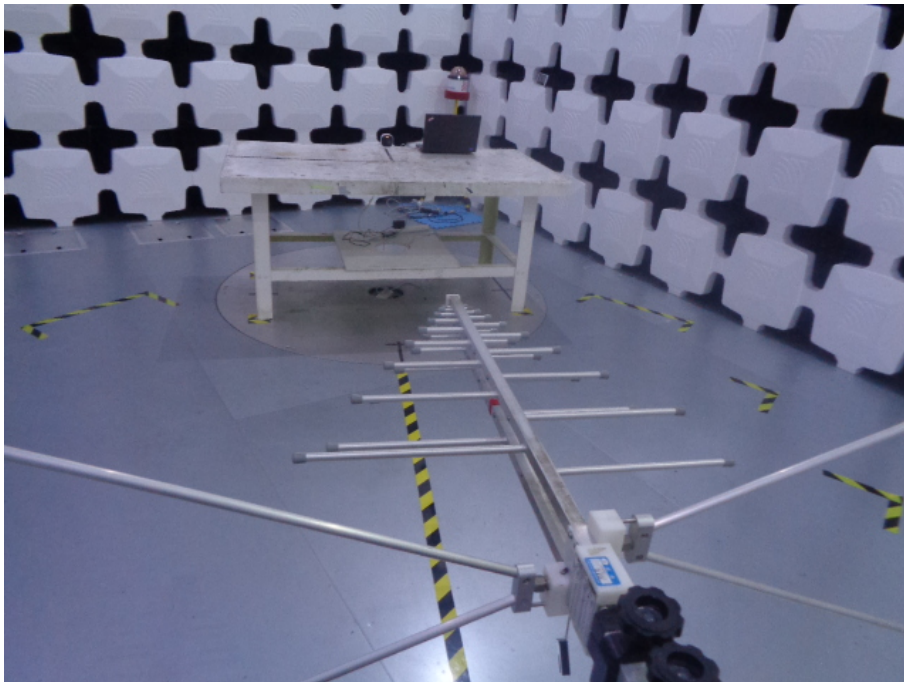
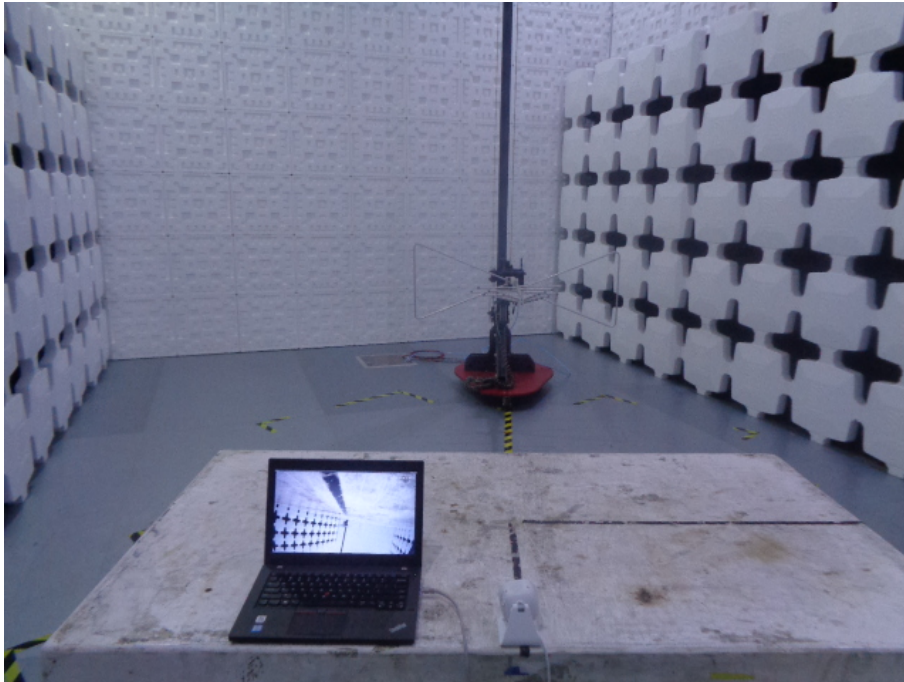


NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1577.0	47.19	74.00	26.81	100	0	Vertical	PK
2	1577.0	38.30	54.00	15.70	100	0	Vertical	AV
3	1872.5	40.25	54.00	13.75	100	30	Vertical	AV
4	1903.0	47.13	74.00	26.87	100	292	Vertical	PK
5	2106.0	41.72	54.00	12.28	100	157	Vertical	AV
6	2107.0	51.92	74.00	22.08	100	151	Vertical	PK
7	2633.0	52.87	74.00	21.13	100	178	Vertical	PK
8	2635.5	43.49	54.00	10.51	100	178	Vertical	AV
9	4200.0	39.69	54.00	14.31	100	196	Vertical	AV
10	4206.0	47.86	74.00	26.14	100	145	Vertical	PK
11	5167.5	49.62	74.00	24.38	100	287	Vertical	PK
12	5178.5	41.54	54.00	12.46	100	46	Vertical	AV

**REMARKS:**

1. The emission levels of other frequencies were very low against the limit.
2. Margin = Limit – Level

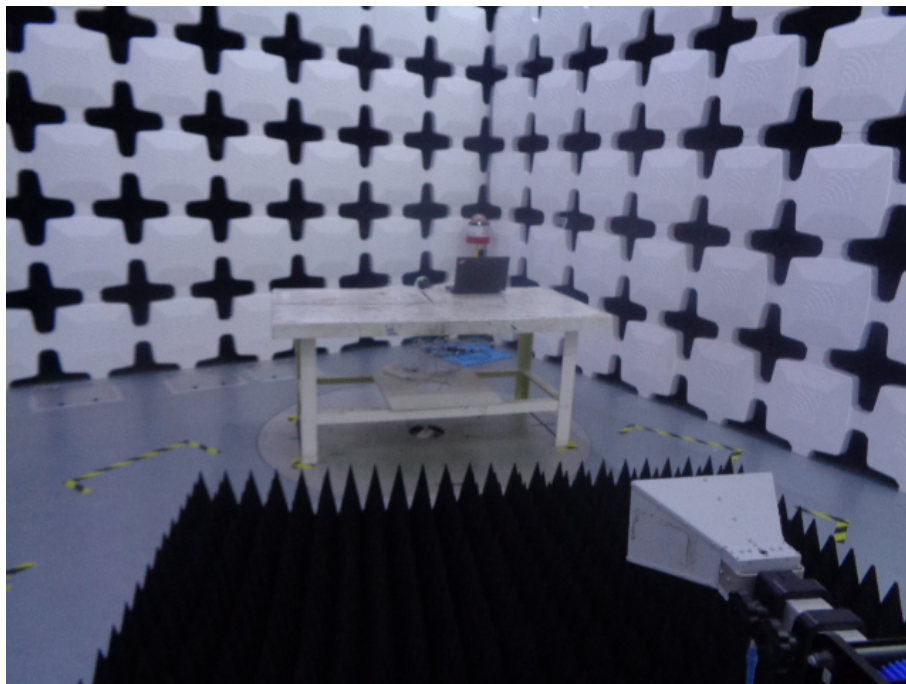
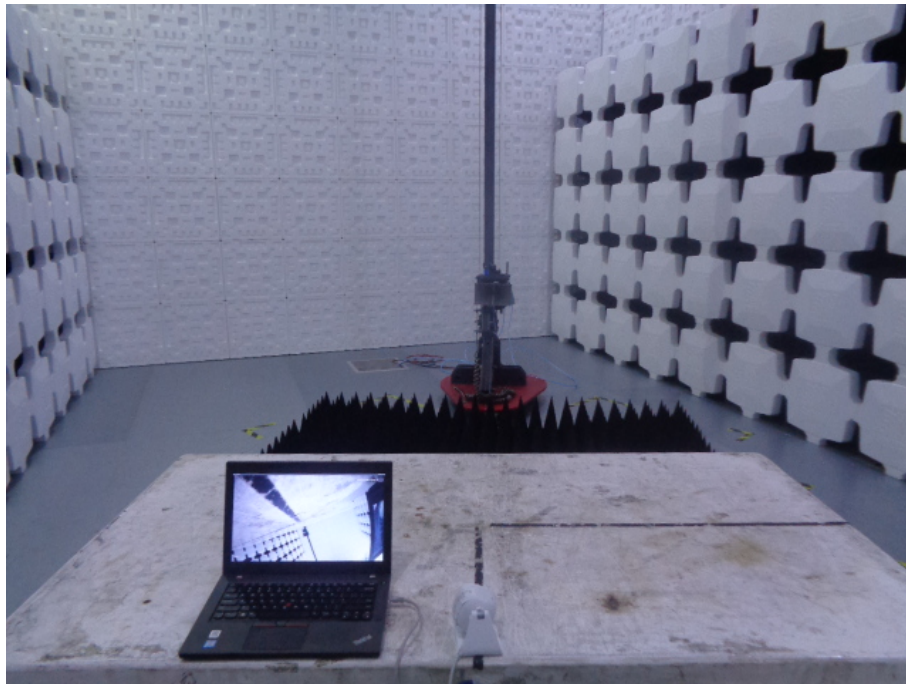
### 5.7. Test Photographs (30MHz ~ 1000MHz)





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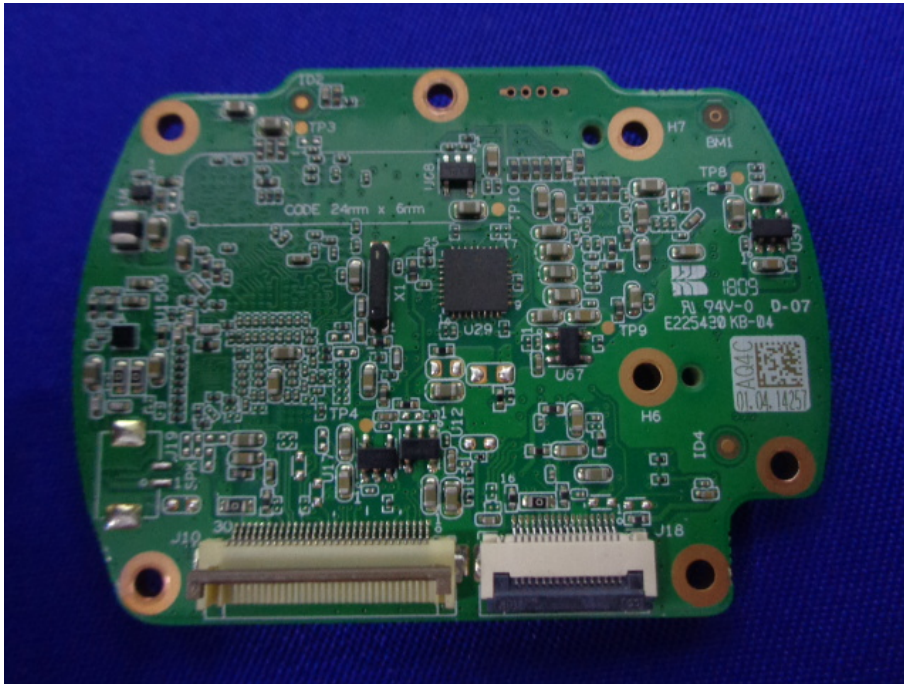
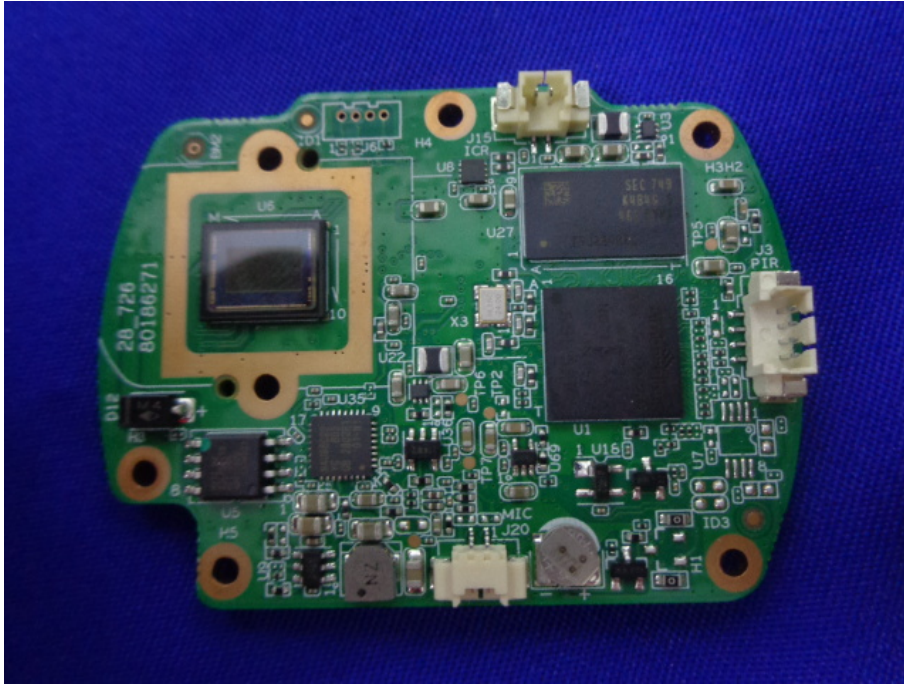
## 5.8. Test Photographs (1000MHz ~ 6000MHz)



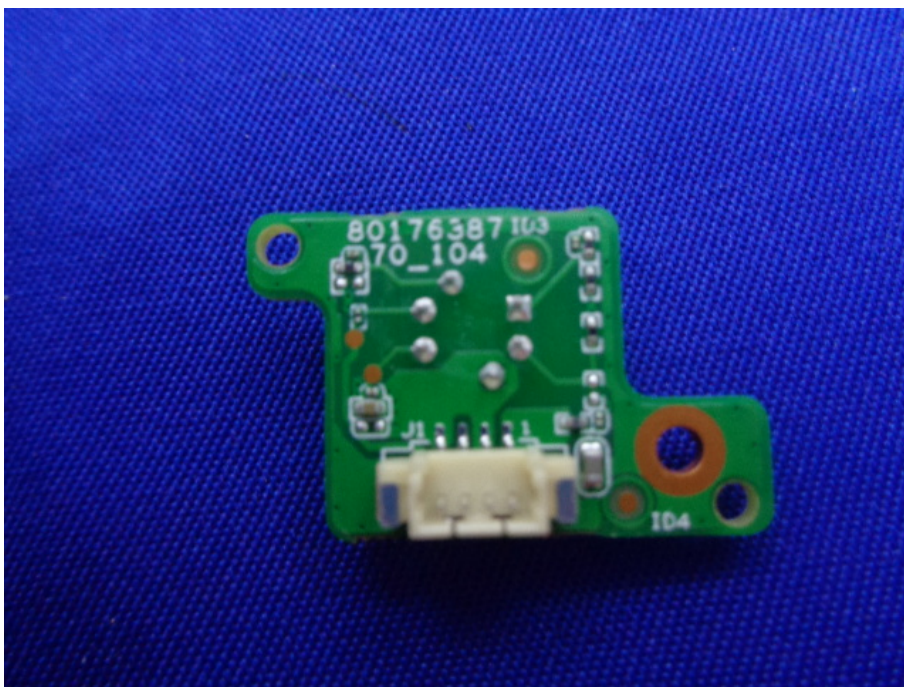
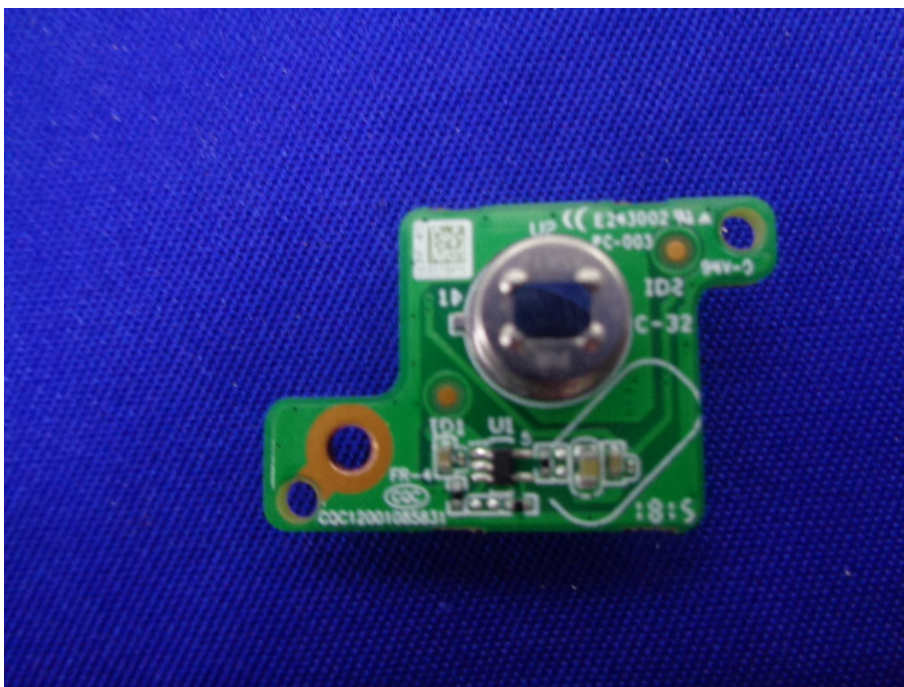


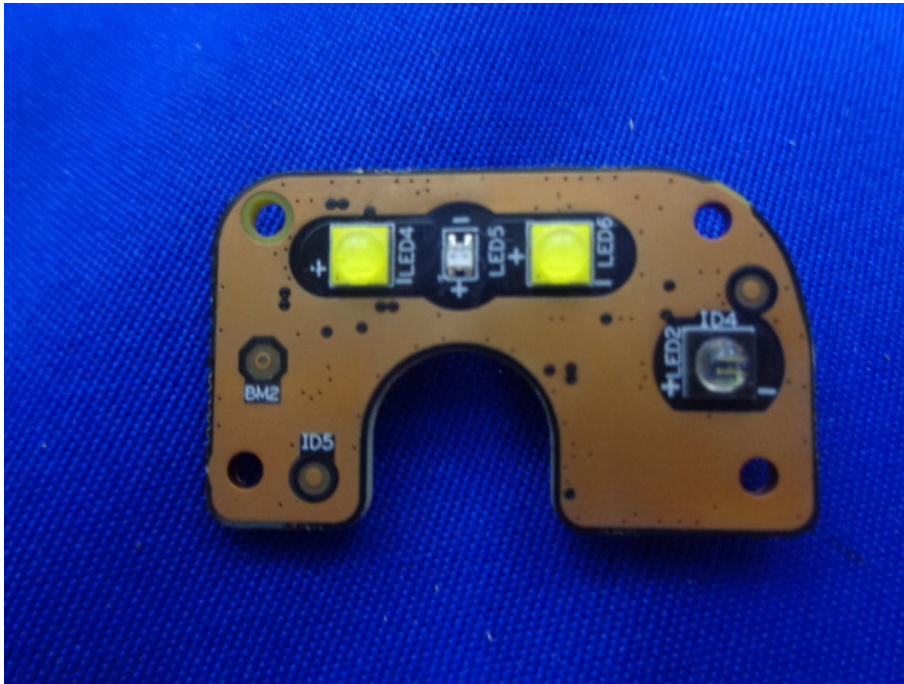
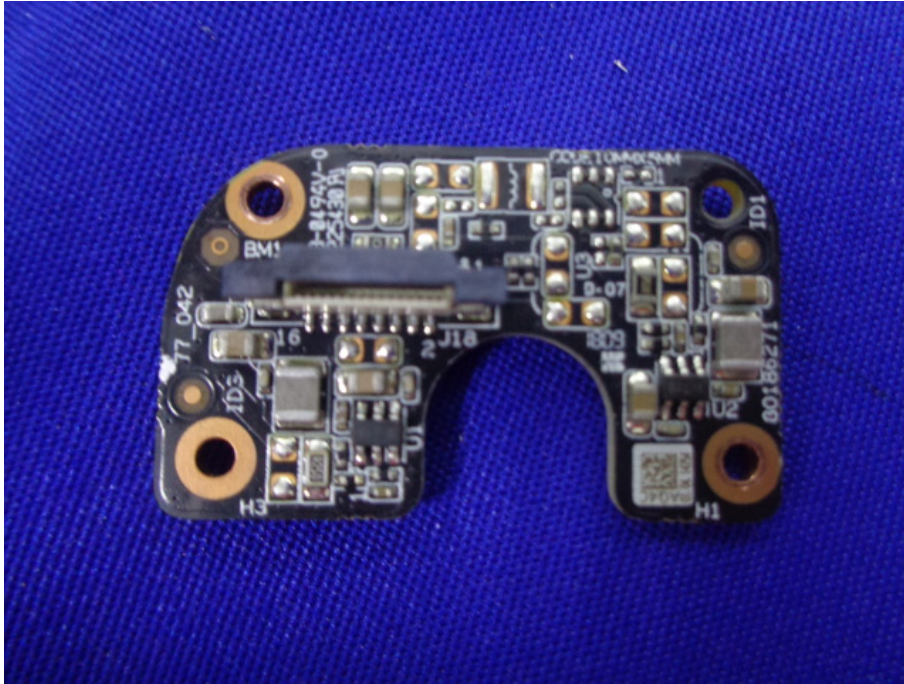
## 6. Photographs of EUT











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