



TEST REPORT

Report No.: DHQ-18MA0306VTSPB
Test Model: DH-IPC-HFW4239TP-ASE
Received: Mar.31, 2018
ISSUED: Apr.11, 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-HFW4239TP-ASE

SERIES MODEL: DH-IPC-HFW4239TP-ASE, DH-IPC-HFW4239TN-ASE,
IPC-HFW4239TP-ASE, IPC-HFW4239TN-ASE,
DH-IPC-HFW4239T-ASE, IPC-HFW4239T-ASE

APPLICANT: ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

TESTED: Mar.31 to Apr.10, 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 : Bing Ye, **DATE:** Apr.11, 2018
Bing YE
Project Engineer

APPROVED BY : Joy ZHU, **DATE:** Apr.11, 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

Product Name:	IP CAMERA
Test Model:	DH-IPC-HFW4239TP-ASE
Series Model:	DH-IPC-HFW4239TP-ASE, DH-IPC-HFW4239TN-ASE, IPC-HFW4239TP-ASE, IPC-HFW4239TN-ASE, DH-IPC-HFW4239T-ASE, IPC-HFW4239T-ASE
Model Discrepancy:	All models have same internal structure, just different appearance and model name.
EUT Power Rating:	12VDC 1A and POE(802.3af, 37-57V), 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 12012EPCU
3	POE injector	SUPLET	LAS60-57CN-RJ45
4	Network Cable	--	--



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 μ V)		Class B (dB μ 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	E1R1002	Mar.26, 2019
LISN ROHDE & SCHWARZ	ENV216	E1L1011	Jul.24, 2018
LISN	ISNT800	E1C4010	Sep.18, 2018
LISN	ISNT8-CAT6	E1C4011	Sep.18, 2018
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 DC12 port test on AC adapter

Phase : LINE

Location: Conduction 1

Date: 4/2/2018

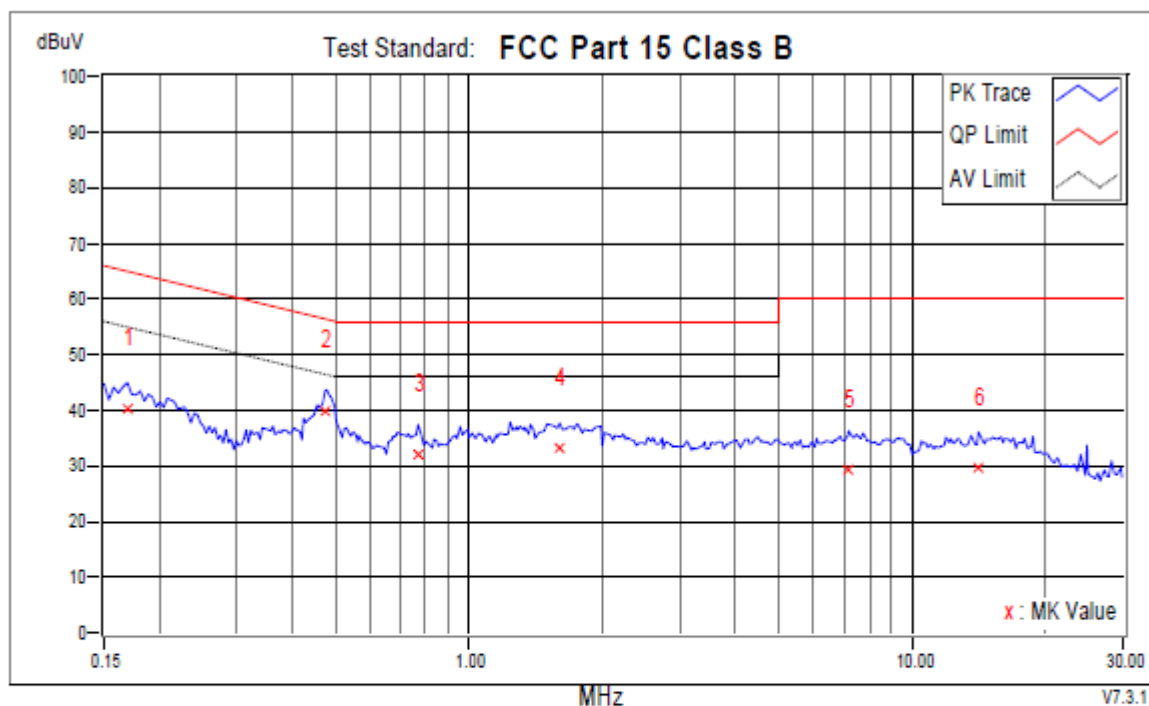
Time: 11:44:55 AM

Phase L1

Temperatuer (C): 23

Humidity (%): 51

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	0.16955	9.60	30.57	12.39	40.17	21.99	64.98	54.98	-24.81	-32.99	
+2	0.47453	9.60	30.21	22.62	39.81	32.22	56.43	46.43	-16.62	-14.21	
3	0.76778	9.60	22.43	13.66	32.03	23.26	56.00	46.00	-23.97	-22.74	
4	1.60214	9.60	23.67	14.03	33.27	23.63	56.00	46.00	-22.73	-22.37	
5	7.18562	9.66	19.69	8.64	29.35	18.30	60.00	50.00	-30.65	-31.70	
6	14.11723	10.17	19.46	10.99	29.63	21.16	60.00	50.00	-30.37	-28.84	

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: 4/2/2018

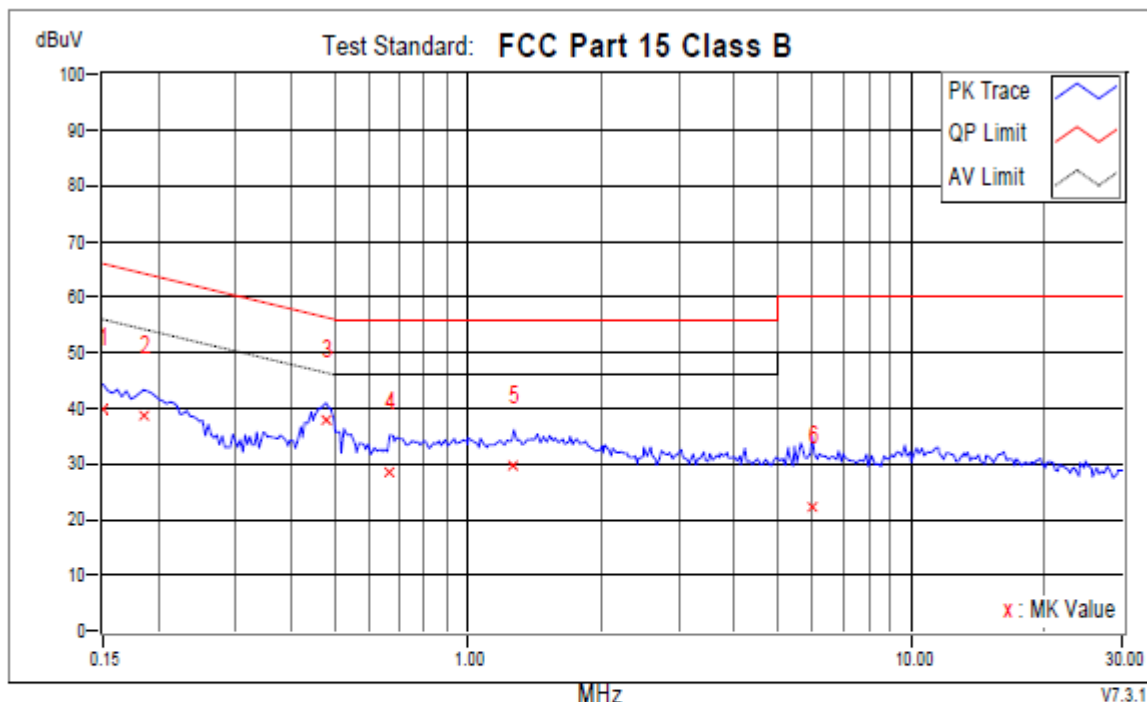
Time: 11:48:53 AM

Phase N

Temperature (C): 23

Humidity (%): 51

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	30.17	10.94	39.77	20.54	66.00	56.00	-26.23	-35.46	
2	0.18519	9.60	29.06	12.66	38.66	22.26	64.25	54.25	-25.59	-31.99	
+3	0.47844	9.60	28.17	22.31	37.77	31.91	56.37	46.37	-18.60	-14.46	
4	0.66612	9.60	18.94	10.88	28.54	20.48	56.00	46.00	-27.46	-25.52	
5	1.26979	9.60	19.97	12.49	29.57	22.09	56.00	46.00	-26.43	-23.91	
6	5.98134	9.67	12.52	4.21	22.19	13.88	60.00	50.00	-37.81	-36.12	

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: 4/2/2018

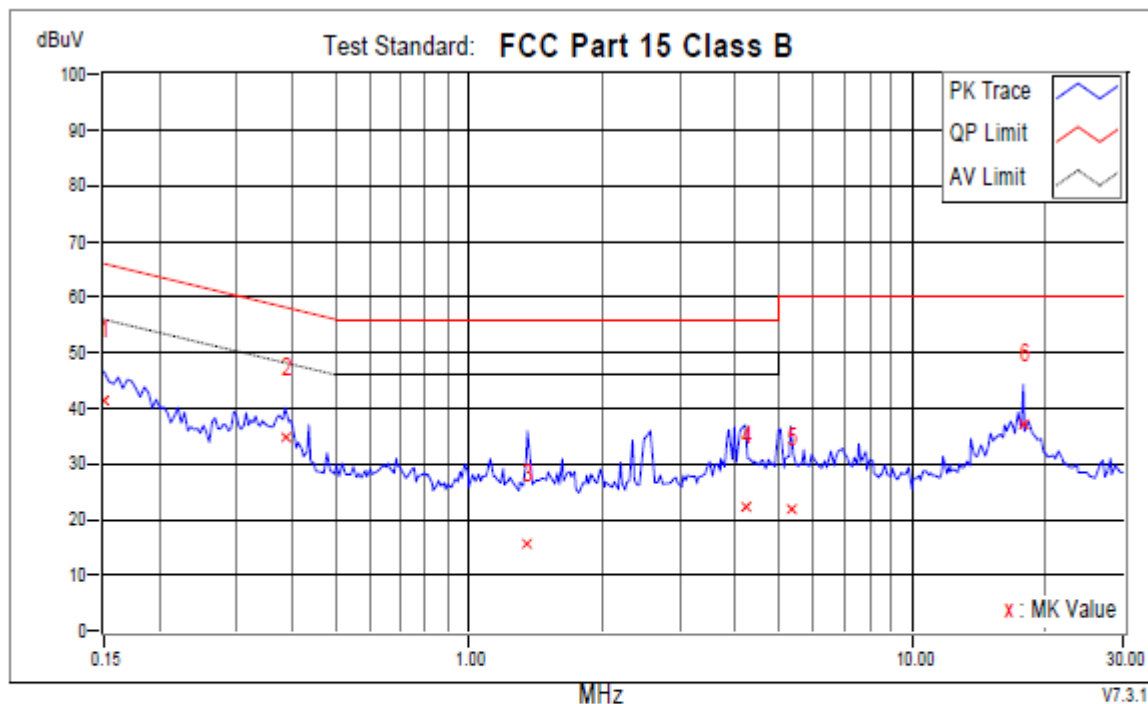
Time: 11:29:57 AM

Phase L1

Temperature (C): 23

Humidity (%): 51

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	31.73	20.52	41.33	30.12	66.00	56.00	-24.67	-25.88	
+2	0.38460	9.60	25.06	20.64	34.66	30.24	58.18	48.18	-23.52	-17.94	
3	1.35581	9.60	5.88	-1.20	15.48	8.40	56.00	46.00	-40.52	-37.60	
4	4.20229	9.61	12.63	6.65	22.24	16.26	56.00	46.00	-33.76	-29.74	
5	5.31664	9.64	12.20	7.52	21.84	17.16	60.00	50.00	-38.16	-32.84	
6	17.83173	10.34	26.90	18.77	37.24	29.11	60.00	50.00	-22.76	-20.89	

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: 4/2/2018

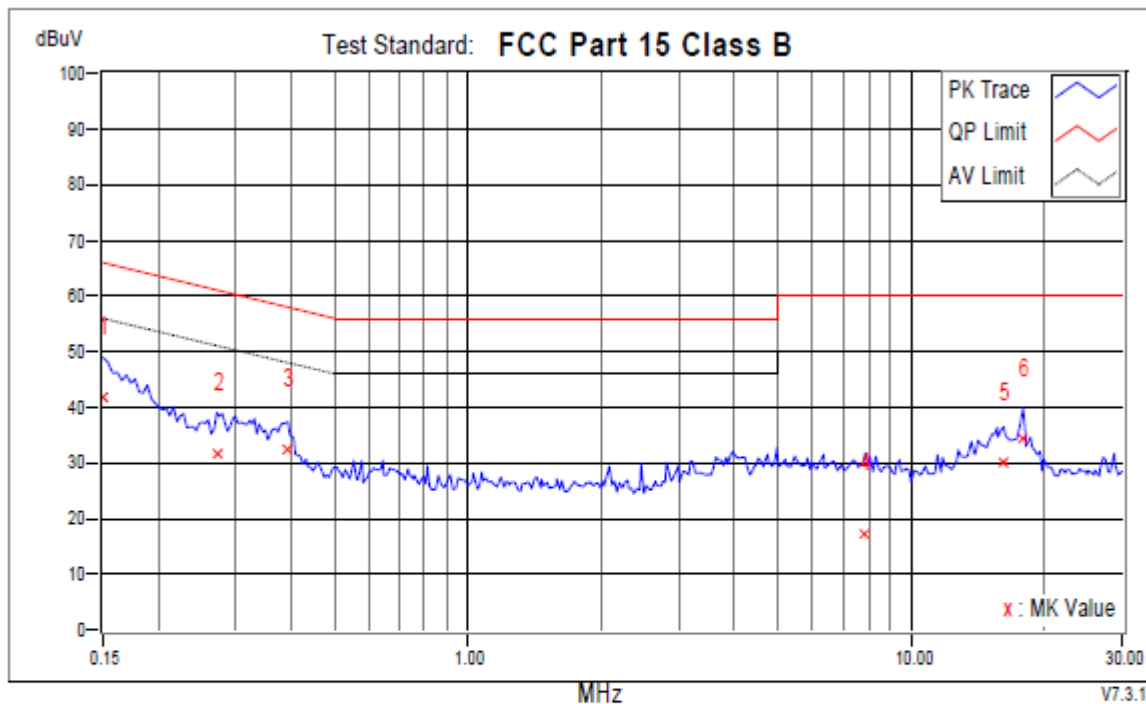
Time: 11:28:55 AM

Phase N

Temperature (C): 23

Humidity (%): 51

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	32.18	20.60	41.78	30.20	66.00	56.00	-24.22	-25.80	
2	0.27121	9.60	22.14	15.49	31.74	25.09	61.08	51.08	-29.34	-25.99	
+3	0.39242	9.60	23.00	18.02	32.60	27.62	58.01	48.01	-25.41	-20.39	
4	7.88160	9.73	7.56	2.11	17.29	11.84	60.00	50.00	-42.71	-38.16	
5	16.16216	10.41	19.80	13.89	30.21	24.30	60.00	50.00	-29.79	-25.70	
6	17.89038	10.27	24.07	11.53	34.34	21.80	60.00	50.00	-25.66	-28.20	

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





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



5.4. Measurement Equipment

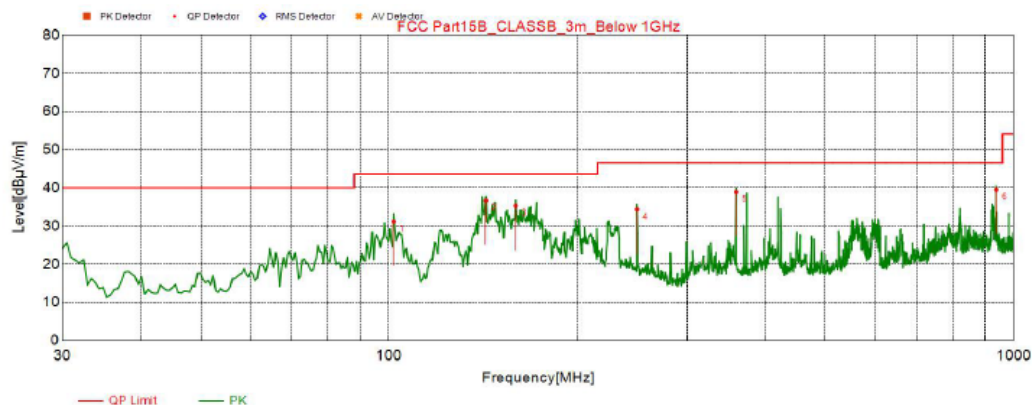
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
EMI Test Spectrum ROHDE & SCHWARZ	ESR7	E1R1005	Nov.28, 2018
Broad-Band Antenna Schwarzbeck	VULB9168	E1A1001	Feb.27, 2019
Double Riaged Vroadband Horn Antenna Schwarzbeck	BBHA9120D	E1A1017	Aug.26, 2019
Preamplifier Agilent	8447D	E1A2001	Oct.20, 2018
Preamplifier Agilent	8449B	E1A2002	Mar.26, 2019

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

DC 12V mode

Position: Horizontal

Test Graph



Final Data List

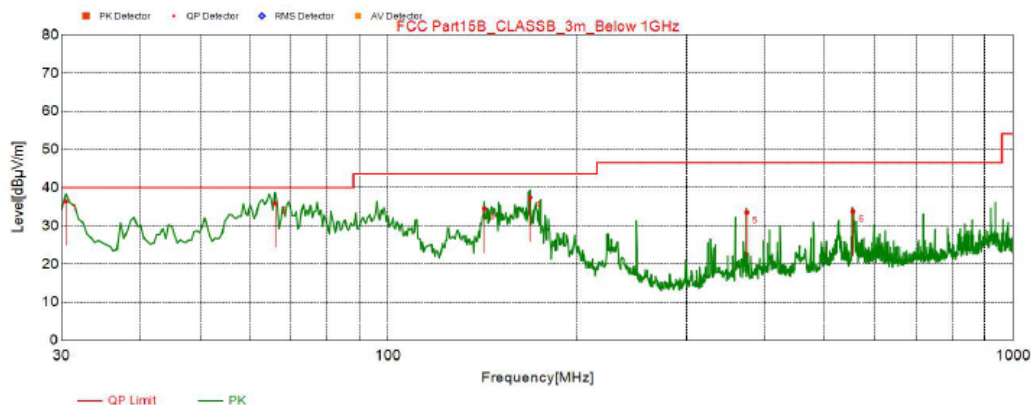
NO.	Freq. [MHz]	QP Reading[dB μV/m]	Factor[dB]	QP Value[d BμV]	QP Limit[d BμV/m]	QP Margin[dB]	Height [cm]	Angle [°]	Polarity
1	101.780	49.49	-18.33	31.16	43.5	12.34	200	348	Horizontal
2	143.005	52.13	-15.51	36.62	43.5	6.88	200	348	Horizontal
3	159.495	50.17	-14.94	35.23	43.5	8.27	200	348	Horizontal
4	249.705	49.99	-15.69	34.30	46.5	12.20	100	87	Horizontal
5	359.800	51.90	-13	38.90	46.5	7.60	100	32	Horizontal
6	937.920	43.43	-3.94	39.49	46.5	7.01	100	256	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



Final Data List									
NO.	Freq. [MHz]	QP Reading [dB μV/m]	Factor [dB]	QP Value [dB μV]	QP Limit [dB μV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.485	52.36	-16.04	36.32	40	3.68	100	17	Vertical
2	65.890	52.54	-16.73	35.81	40	4.19	100	14	Vertical
3	142.520	49.96	-15.53	34.43	43.5	9.07	100	220	Vertical
4	168.710	52.12	-14.74	37.38	43.5	6.12	100	17	Vertical
5	374.835	46.24	-12.77	33.47	46.5	13.03	200	325	Vertical
6	554.285	44.13	-10.43	33.70	46.5	12.80	100	198	Vertical

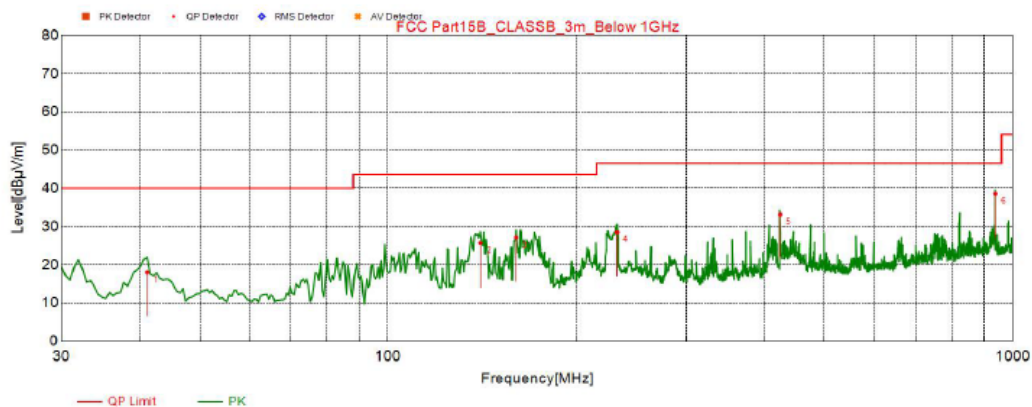
REMARKS:

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.

POE mode

Position: Horizontal

Test Graph



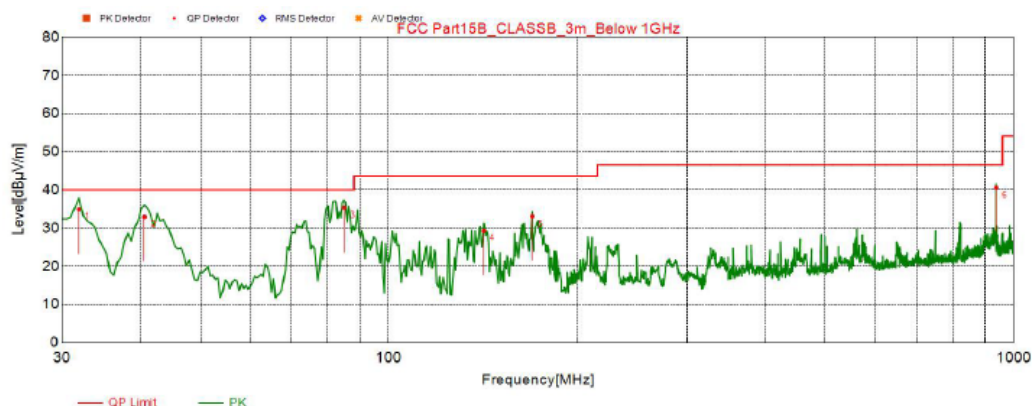
Final Data List									
NO.	Freq. [MHz]	QP Reading [dB μV/m]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.155	33.95	-15.96	17.99	40.00	22.01	200	131	Horizontal
2	140.580	41.23	-15.61	25.62	43.50	17.88	200	134	Horizontal
3	160.465	42.02	-14.93	27.09	43.50	16.41	200	122	Horizontal
4	232.730	44.98	-16.47	28.51	46.50	17.99	100	100	Horizontal
5	424.790	44.94	-11.81	33.13	46.50	13.37	100	187	Horizontal
6	937.920	42.51	-3.94	38.57	46.50	7.93	100	256	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



Final Data List

NO.	Freq. [MHz]	QP Reading [dB μV/m]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.940	50.88	-16.04	34.84	40.00	5.16	100	55	Vertical
2	40.670	48.91	-15.99	32.92	40.00	7.08	100	212	Vertical
3	84.805	54.51	-19.27	35.24	40.00	4.76	100	61	Vertical
4	142.035	44.83	-15.55	29.28	43.50	14.22	100	182	Vertical
5	169.680	47.81	-14.72	33.09	43.50	10.41	100	80	Vertical
6	937.920	44.56	-3.94	40.62	46.50	5.88	100	188	Vertical

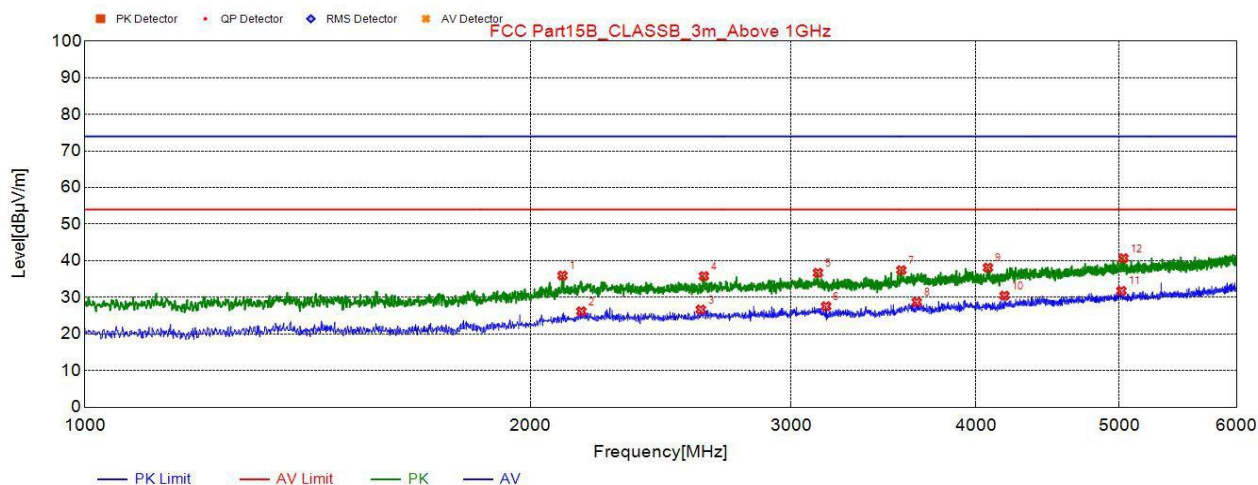
REMARKS:

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)

DC 12V mode

Position: Horizontal

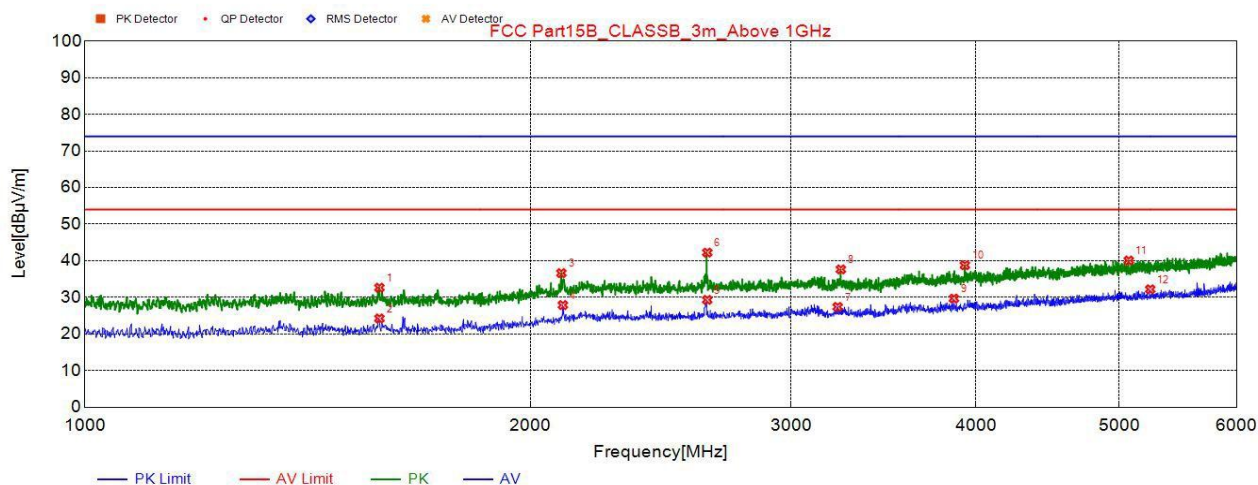


Suspected List									
NO.	Freq. [MHz]	Read- ing [dBμV/m]	Level [dB μV/m]	Limit [dB μV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	2102.	38.28	35.97	74.00	38.03	100	105	Horizontal	PK
2	2165.	28.04	26.19	54.00	27.81	100	202	Horizontal	AV
3	2607.	28.07	26.68	54.00	27.32	100	291	Horizontal	AV
4	2620.	37.18	35.82	74.00	38.18	100	158	Horizontal	PK
5	3128.	37.16	36.71	74.00	37.29	100	53	Horizontal	PK
6	3168.	28.04	27.58	54.00	26.42	100	282	Horizontal	AV
7	3562.	37.05	37.44	74.00	36.56	100	17	Horizontal	PK
8	3648.	28.06	28.71	54.00	25.29	100	9	Horizontal	AV
9	4076.	36.11	38.13	74.00	35.87	100	238	Horizontal	PK
10	4182.	28.20	30.45	54.00	23.55	100	88	Horizontal	AV
11	5017.	26.96	31.8	54.00	22.20	100	79	Horizontal	AV
12	5033.	35.85	40.71	74.00	33.29	100	0	Horizontal	PK

REMARKS:

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

Position: Vertical



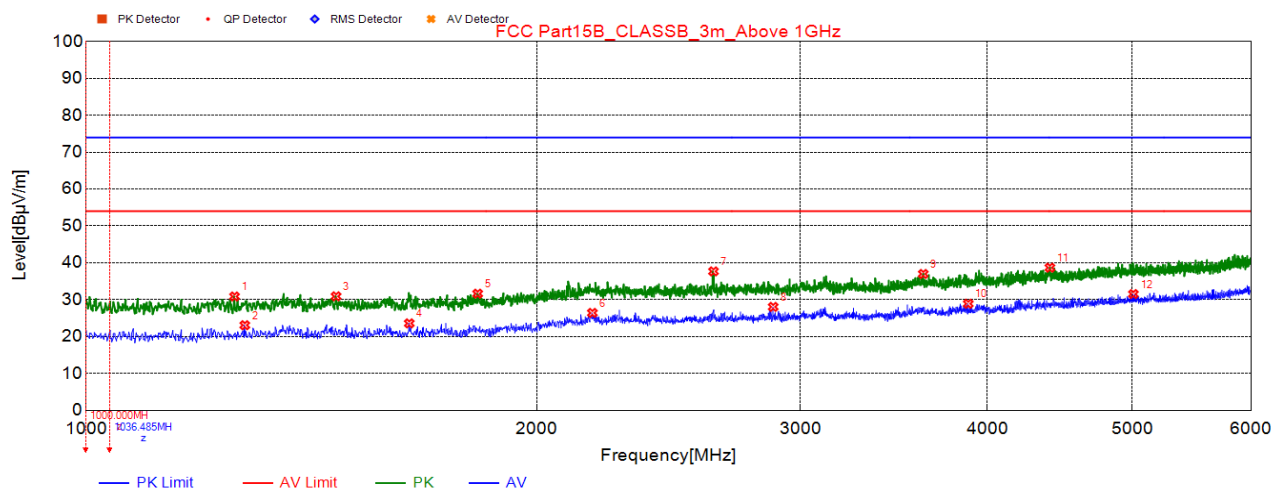
Suspected List									
NO.	Freq. [MHz]	Readding [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1581.	38.48	32.66	74.00	41.34	100	4	Vertical	PK
2	1581.	30.07	24.25	54.00	29.75	100	338	Vertical	AV
3	2098.	38.99	36.64	74.00	37.36	100	109	Vertical	PK
4	2103.	30.20	27.9	54.00	26.10	100	100	Vertical	AV
5	2633.	30.67	29.32	54.00	24.68	100	144	Vertical	AV
6	2633.	43.58	42.23	74.00	31.77	100	144	Vertical	PK
7	3226.	27.97	27.41	54.00	26.59	100	30	Vertical	AV
8	3242.	38.26	37.65	74.00	36.35	100	338	Vertical	PK
9	3866.	28.39	29.68	54.00	24.32	100	267	Vertical	AV
10	3932.	37.25	38.79	74.00	35.21	100	12	Vertical	PK
11	5075.	35.15	40.07	74.00	33.93	100	285	Vertical	PK
12	5247.	27.02	32.21	54.00	21.79	100	259	Vertical	AV

REMARKS:

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

POE mode

Position: Horizontal

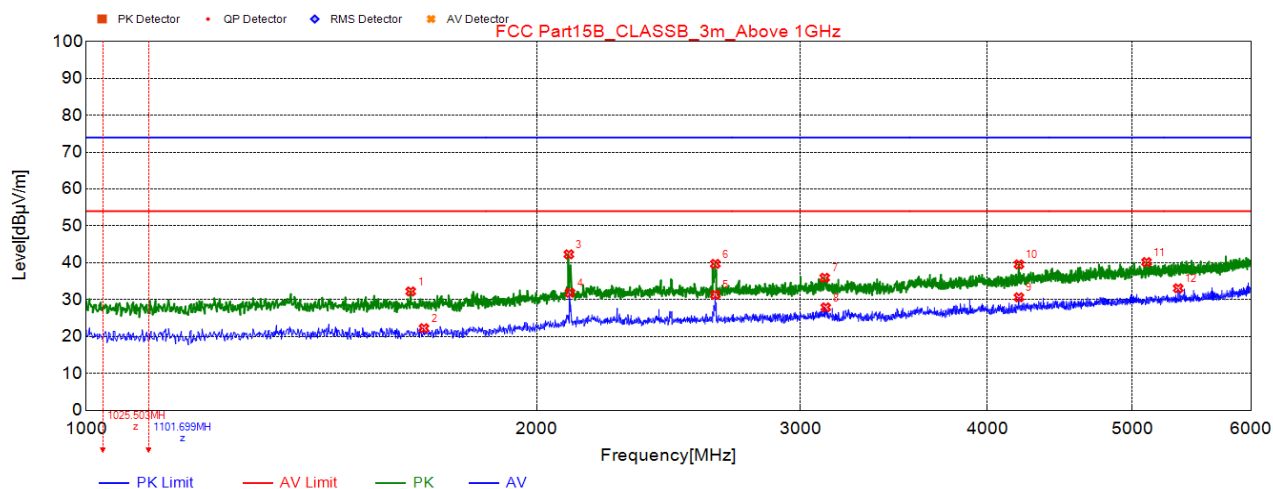


Suspected List									
NO.	Freq. [MHz]	Readdi ng [dBμ V/m]	Level [dB μV/m]	Limit [d BμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1256.	37.77	30.88	74.00	43.12	100	198	Horizontal	PK
2	1276.	29.78	23.09	54.00	30.91	100	242	Horizontal	AV
3	1468.	36.96	30.92	74.00	43.08	100	180	Horizontal	PK
4	1643.	29.32	23.59	54.00	30.41	100	145	Horizontal	AV
5	1826.	36.60	31.64	74.00	42.36	100	295	Horizontal	PK
6	2178.	28.17	26.42	54.00	27.58	100	198	Horizontal	AV
7	2625.	39.05	37.68	74.00	36.32	100	242	Horizontal	PK
8	2877.	29.07	28.06	54.00	25.94	100	22	Horizontal	AV
9	3625.	36.39	36.99	74.00	37.01	100	127	Horizontal	PK
10	3885.	27.54	28.91	54.00	25.09	100	180	Horizontal	AV
11	4405.	35.78	38.69	74.00	35.31	100	109	Horizontal	PK
12	5008.	26.71	31.54	54.00	22.46	100	242	Horizontal	AV

REMARKS:

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

Position: Vertical

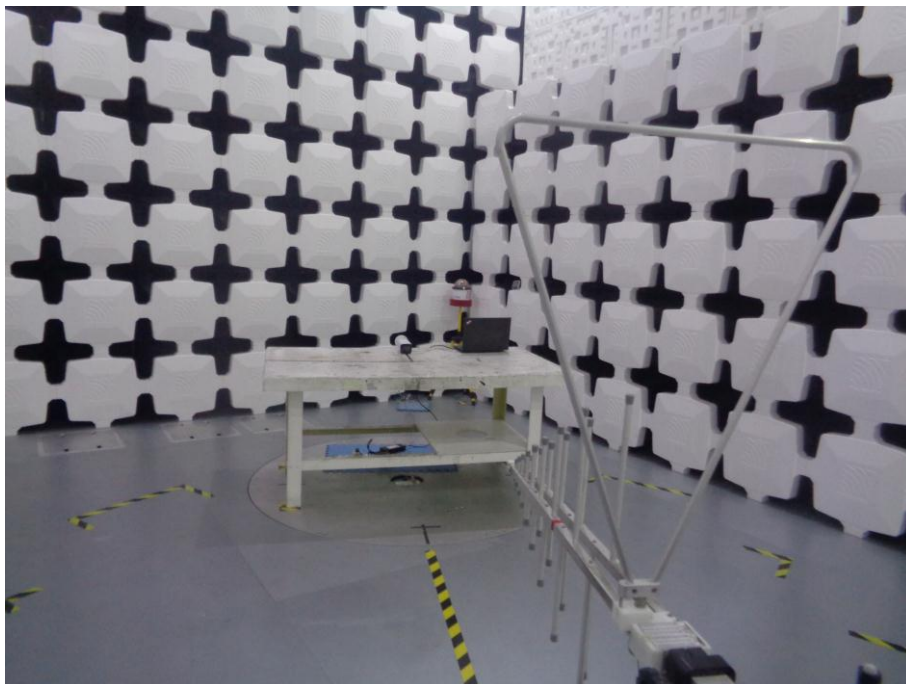
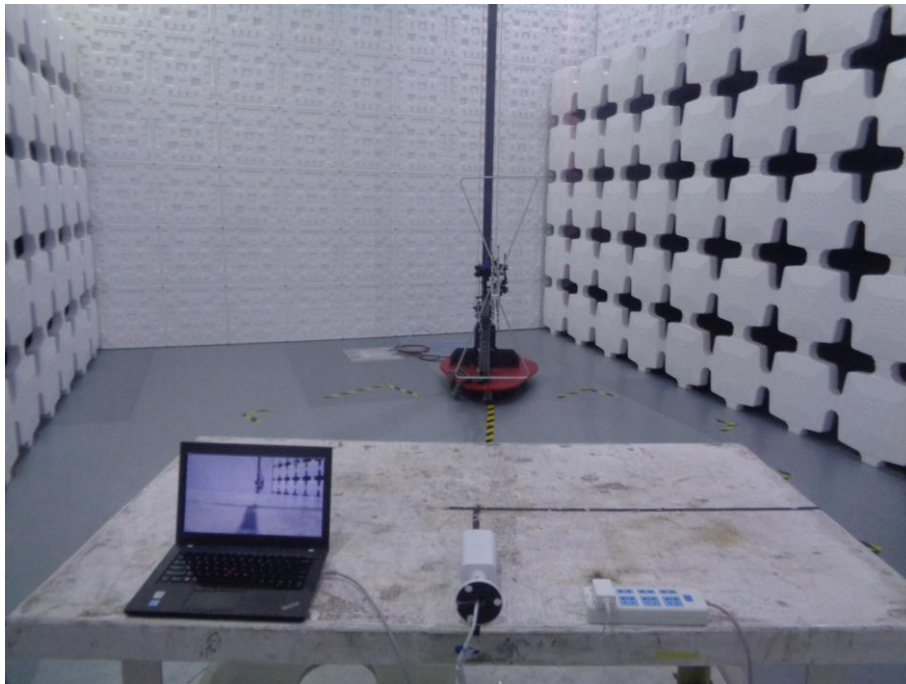


Suspected List									
NO.	Freq. [MHz]	Readi ng [dBμ V/m]	Level [dB μV/m]	Limit [d BμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	1647.	37.98	32.25	74.00	41.75	100	265	Vertical	PK
2	1681.	27.96	22.27	54.00	31.73	100	142	Vertical	AV
3	2101.	44.62	42.3	74.00	31.70	100	151	Vertical	PK
4	2105.	34.20	31.9	54.00	22.10	100	151	Vertical	AV
5	2632.	32.72	31.36	54.00	22.64	100	142	Vertical	AV
6	2632.	41.08	39.72	74.00	34.28	100	142	Vertical	PK
7	3115.	36.40	35.95	74.00	38.05	100	168	Vertical	PK
8	3120.	28.37	27.92	54.00	26.08	100	292	Vertical	AV
9	4200.	28.35	30.65	54.00	23.35	100	151	Vertical	AV
10	4200.	37.27	39.57	74.00	34.43	100	151	Vertical	PK
11	5111.	35.23	40.19	74.00	33.81	100	151	Vertical	PK
12	5366.	27.68	33.09	54.00	20.91	100	283	Vertical	AV

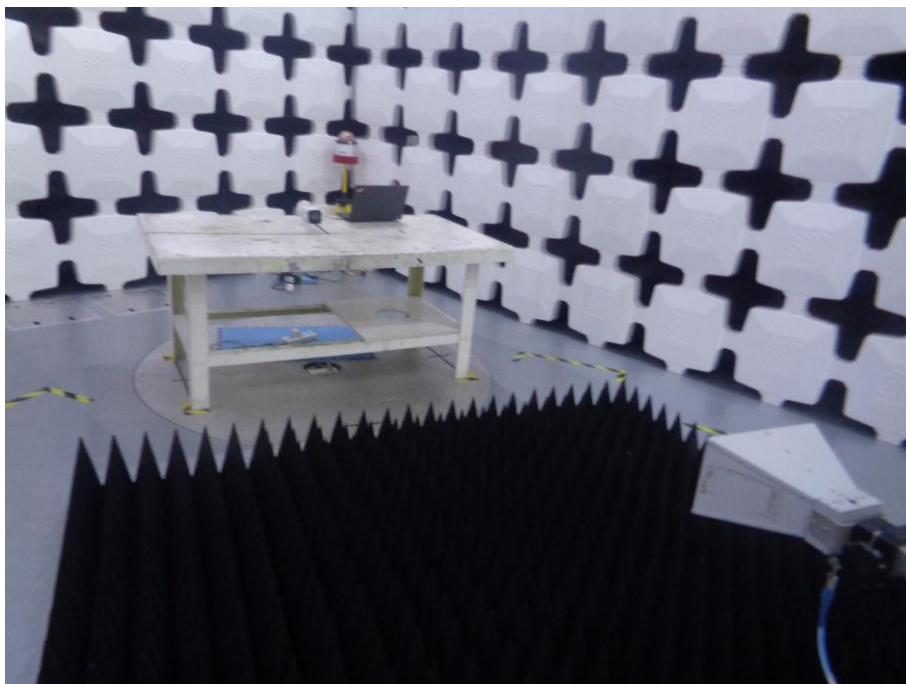
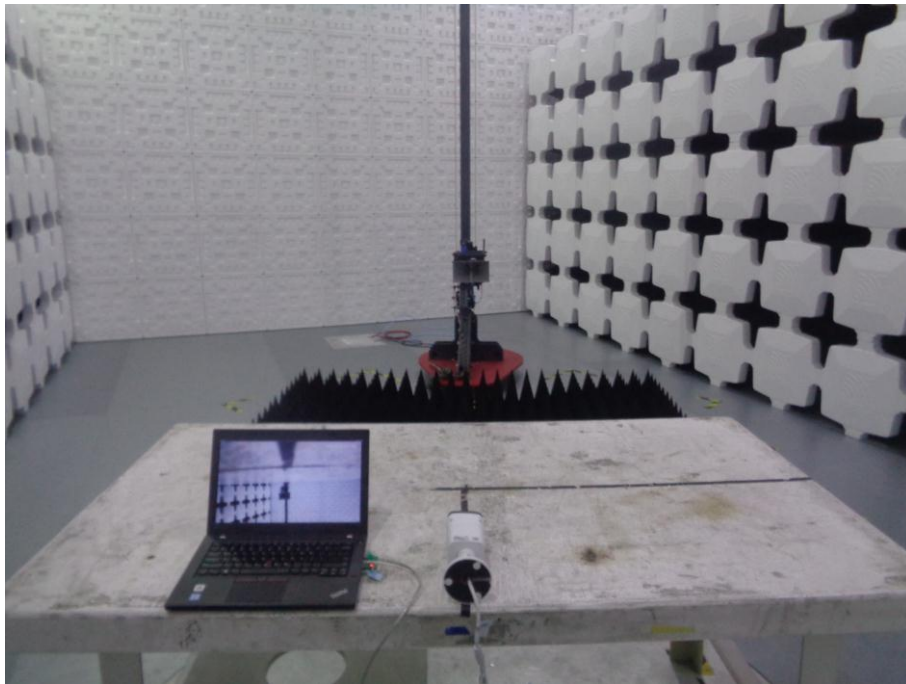
REMARKS:

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

5.7. Test Photographs (30MHz ~ 1000MHz)



5.8. Test Photographs (1000MHz ~ 6000MHz)



6. Photographs of EUT





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