



Report No.: SUZR/2021/A002405

Rev.: 01

Page: 1 of 29

TEST REPORT

Application No.: ZR/2021/A0024
Applicant: Great Talent Technology Limited
Address of Applicant: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer: Great Talent Technology Limited
Address of Manufacturer: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
EUT Description: Smart Phone
Model No.: TW102
Trade Mark: Treswave
FCC ID: 2ALZM-TW102
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021/11/18
Date of Test: 2021/11/23 to 2021/12/30
Date of Issue: 2021/12/31

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/12/31		Original

Prepared By	 _____ (Weller Liu) / Engineer
Checked By	 _____ (Well Wei) / Reviewer



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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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1 General Information

Product Name:	Smart Phone		
Model No.(EUT):	TW102		
Trade Mark:	Treswave		
Hardware Version:	Q6005_V1.0		
Software Version:	TW102.00.02.105404		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
GNSS(GPS+Glonass + Beidou+Galileo+SBAS)	1559~1610		



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Accessory:

Item No.	Mode No.	Manufacturer	Description
Adapter	TPA-5950100UU	ShenZhen Kingfulin Technology Co., Ltd.	Input: 100-240V -50/60Hz 0.2A Output: 5.0V, 1000mA
USB cable	TYPE-C TO USBA/M L0.8M BLK	Dongguan Guojun Plastic Electronics Co., Ltd.	Length:0.8m
Battery (EUT)	BTE-3402	Phenix New Energy (Hui Zhou)Co.,Ltd.	Li-ion Polymer Battery: 3.8V, 3400mAh



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number:0031225543

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101 Kpa

- Pretest these modes to find the worst case:
- a: Transfer data between the EUT and the PC+USB cable1
 - b: Transfer data between the EUT and the PC+USB cable2
 - c: WCDMA 5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Rear)
 - d: LTE Band5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Front)
 - e: LTE Band12 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+MP4

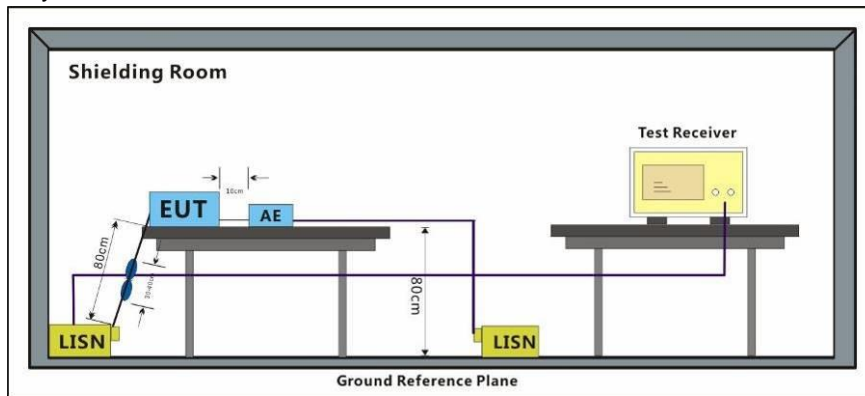
- The worst case for final test:
- a: Transfer data between the EUT and the PC+USB cable1
 - c: WCDMA 5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Rear)



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2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

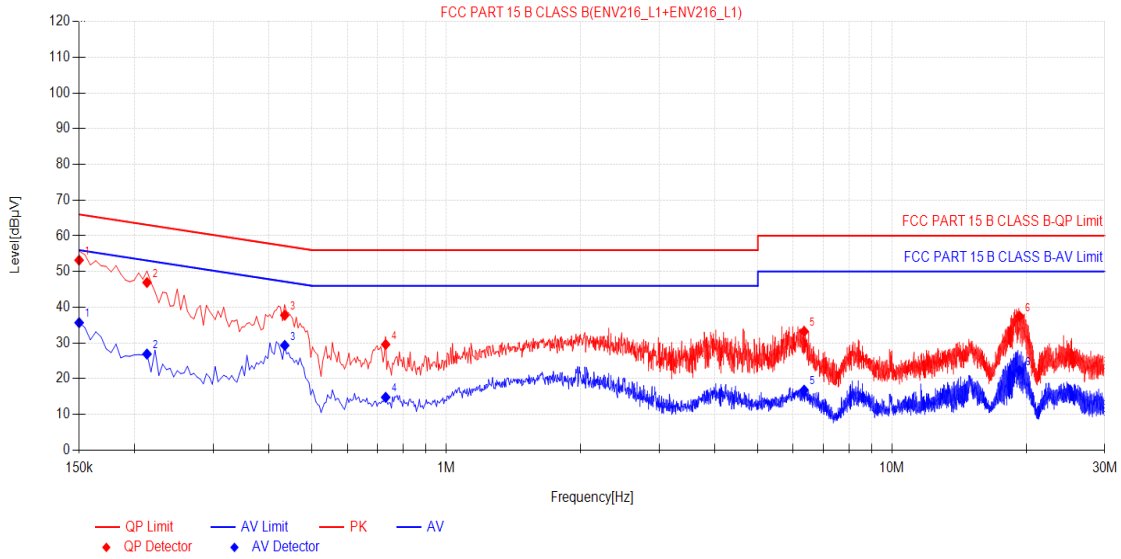


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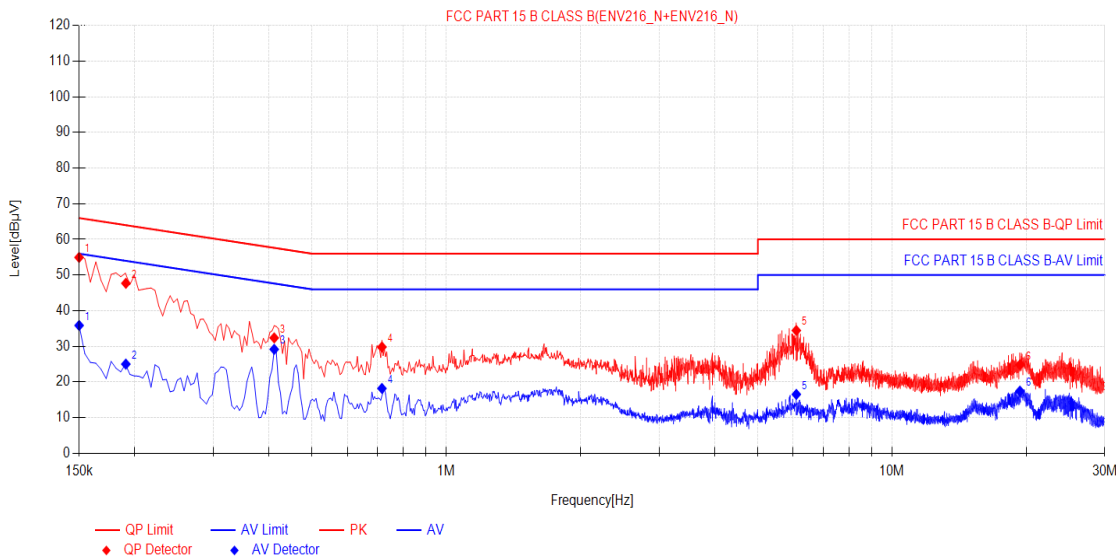


Data List								
NO.	Frequency [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.150	53.18	66.00	12.82	35.67	56.00	20.33	PASS
2	0.2130	46.93	63.09	16.16	26.90	53.09	26.19	PASS
3	0.434	37.77	57.18	19.41	29.33	47.18	17.85	PASS
4	0.731	29.58	56.00	26.42	14.78	46.00	31.22	PASS
5	6.351	33.23	60.00	26.77	16.79	50.00	33.21	PASS
6	19.320	37.42	60.00	22.58	22.31	50.00	27.69	PASS



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Mode:a; Line:Neutral Line



Data List								
NO.	Frequency [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.150	54.95	66.00	11.05	35.87	56.00	20.13	PASS
2	0.191	47.69	63.99	16.30	25.02	53.99	28.97	PASS
3	0.4110	32.38	57.63	25.25	29.17	47.63	18.46	PASS
4	0.7170	29.82	56.00	26.18	18.20	46.00	27.80	PASS
5	6.099	34.46	60.00	25.54	16.53	50.00	33.47	PASS
6	19.361	24.82	60.00	35.18	17.44	50.00	32.56	PASS



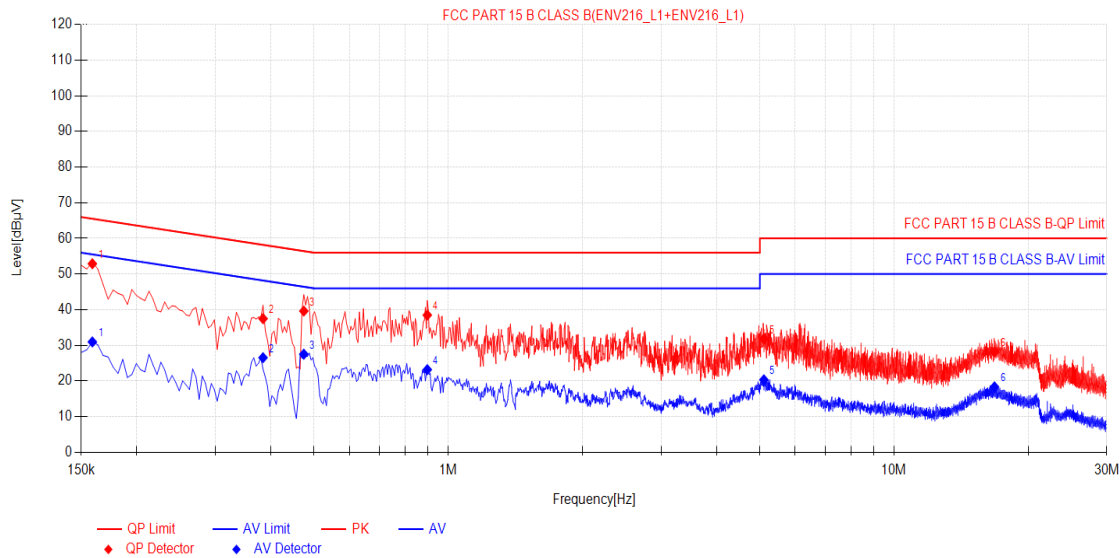
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Mode:c; Line:Live Line



Data List								
NO.	Frequency [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.159	52.89	65.52	12.63	30.96	55.52	24.56	PASS
2	0.384	37.49	58.19	20.70	26.54	48.19	21.65	PASS
3	0.474	39.62	56.44	16.82	27.52	46.44	18.92	PASS
4	0.8970	38.48	56.00	17.52	23.19	46.00	22.81	PASS
5	5.105	31.79	60.00	28.21	20.33	50.00	29.67	PASS
6	16.805	28.23	60.00	31.77	18.35	50.00	31.65	PASS



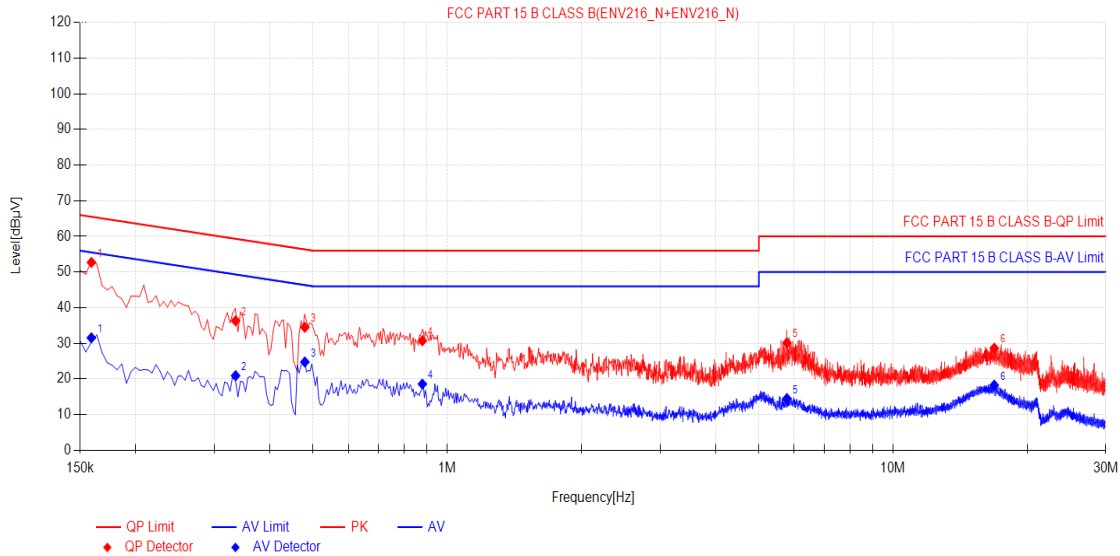
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Mode:c; Line:Neutral Line



Data List								
NO.	Frequency [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.159	52.71	65.52	12.81	31.55	55.52	23.97	PASS
2	0.335	36.35	59.33	22.98	20.93	49.33	28.40	PASS
3	0.479	34.50	56.36	21.86	24.78	46.36	21.58	PASS
4	0.8790	30.75	56.00	25.25	18.59	46.00	27.41	PASS
5	5.780	30.15	60.00	29.85	14.51	50.00	35.49	PASS
6	16.868	28.64	60.00	31.36	18.27	50.00	31.73	PASS



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Rev.: 01

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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Limit:
 30MHz -88MHz 40.0(dBμV/m) quasi-peak
 88MHz-216MHz 43.5(dBμV/m) quasi-peak
 216MHz-960MHz 46.0(dBμV/m) quasi-peak
 960MHz-1000MHz 54.0(dBμV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101 Kpa

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: WCDMA 5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Rear)
- d: LTE Band5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Front)
- e: LTE Band12 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+MP4

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- e: LTE Band12 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+MP4

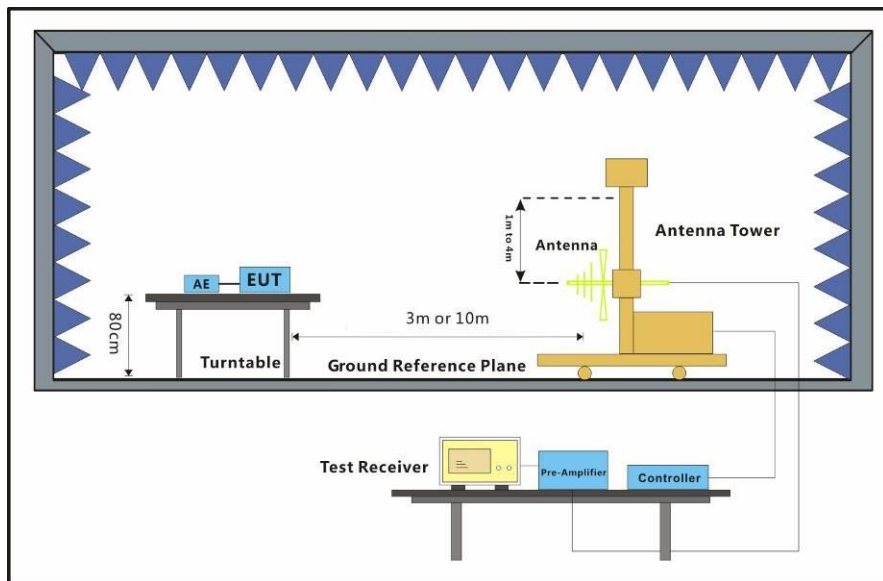


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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. 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 turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

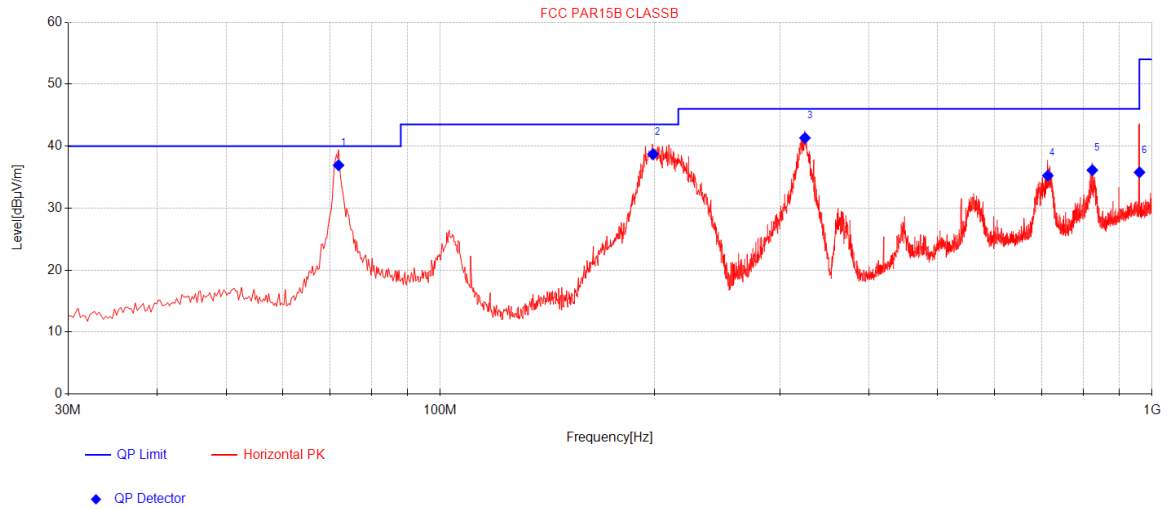


2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



Mode:a; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	71.9525	56.32	-19.41	36.91	40.00	3.09	162	18	Horizontal
2	199.0225	55.23	-16.53	38.70	43.50	4.80	152	357	Horizontal
3	325.365	53.56	-12.24	41.32	46.00	4.68	186	47	Horizontal
4	713.85	39.26	-4.01	35.25	46.00	10.75	163	52	Horizontal
5	824.43	38.86	-2.74	36.12	46.00	9.88	216	23	Horizontal
6	960.23	36.12	-0.35	35.77	54.00	18.23	158	64	Horizontal

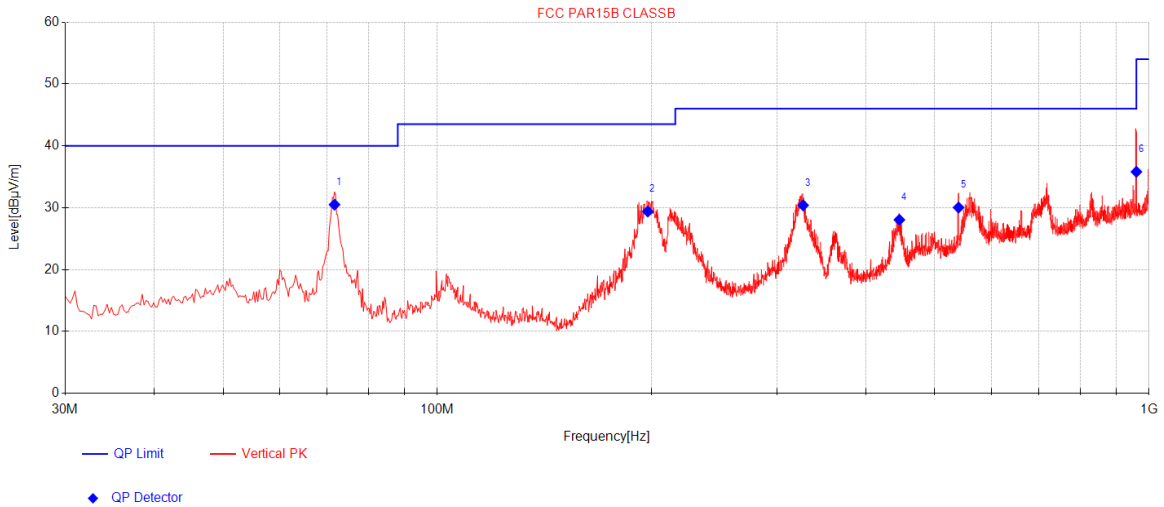


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Mode:a; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	71.71	49.86	-19.36	30.50	40.00	9.50	162	311	Vertical
2	197.5675	46.12	-16.73	29.39	43.50	14.11	152	74	Vertical
3	326.5775	42.52	-12.13	30.39	46.00	15.61	206	338	Vertical
4	445.8875	37.16	-9.11	28.05	46.00	17.95	144	3	Vertical
5	539.9775	37.22	-7.19	30.03	46.00	15.97	185	45	Vertical
6	959.9875	36.15	-0.35	35.80	46.00	10.20	201	23	Vertical

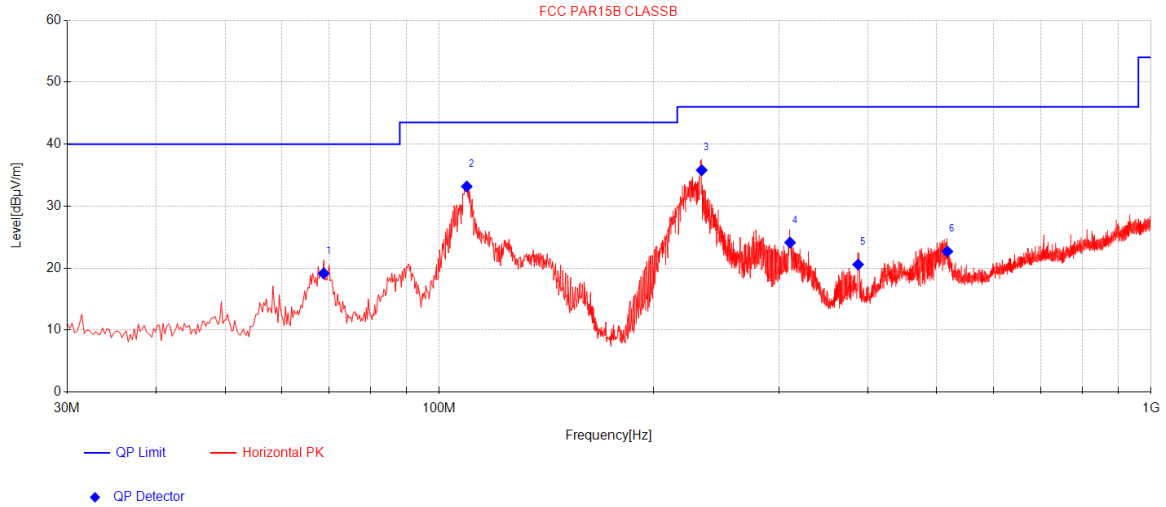


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Mode:e; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	68.8000	43.88	-24.73	19.15	40.00	20.85	162	243	Horizontal
2	109.2975	52.86	-19.69	33.17	43.50	10.33	158	2	Horizontal
3	233.7000	54.55	-18.75	35.80	46.00	10.20	203	79	Horizontal
4	311.0575	40.61	-16.49	24.12	46.00	21.88	148	282	Horizontal
5	387.6875	36.16	-15.58	20.58	46.00	25.42	116	1	Horizontal
6	517.4250	35.44	-12.75	22.69	46.00	23.31	201	0	Horizontal



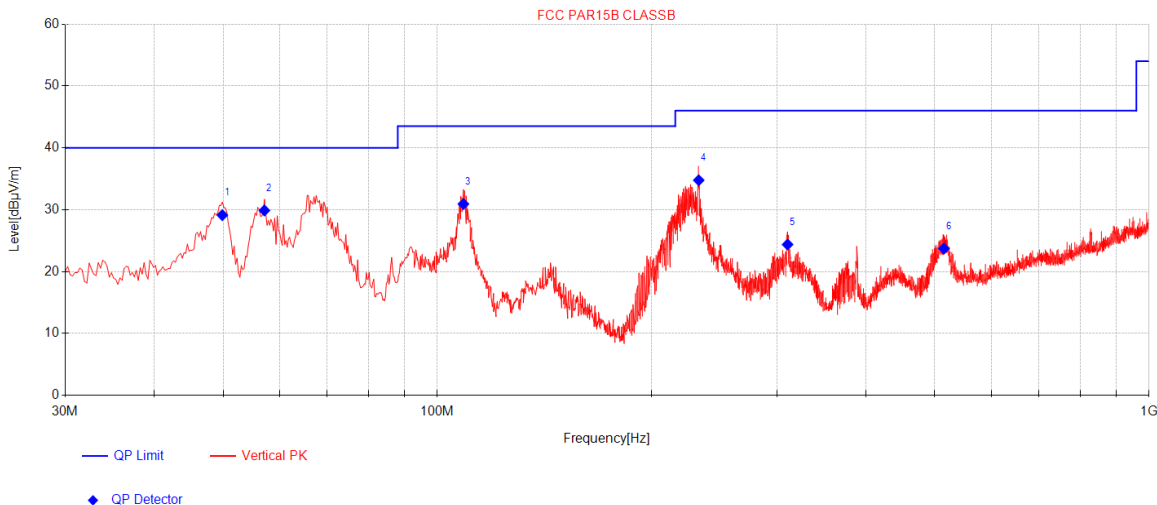
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Mode:e; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.8850	49.33	-20.20	29.13	40.00	10.87	152	184	Vertical
2	57.1600	51.69	-21.81	29.88	40.00	10.12	126	3	Vertical
3	108.8125	50.62	-19.69	30.93	43.50	12.57	201	360	Vertical
4	232.9725	53.52	-18.76	34.76	46.00	11.24	165	222	Vertical
5	310.5725	40.88	-16.50	24.38	46.00	21.62	126	0	Vertical
6	515.0000	36.56	-12.84	23.72	46.00	22.28	226	359	Vertical



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2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Limit:
 Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 40000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101 Kpa

Pretest these modes to find the worst case:
 a: Transfer data between the EUT and the PC+USB cable1
 b: Transfer data between the EUT and the PC+USB cable2
 c: WCDMA 5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Rear)
 d: LTE Band5 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+Camera(Front)
 e: LTE Band12 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+MP4

The worst case for final test:
 b: Transfer data between the EUT and the PC+USB cable2
 e: LTE Band12 Idle+ Adaptor+usb+BT Idle+WLAN Idle(2.4G)+MP4

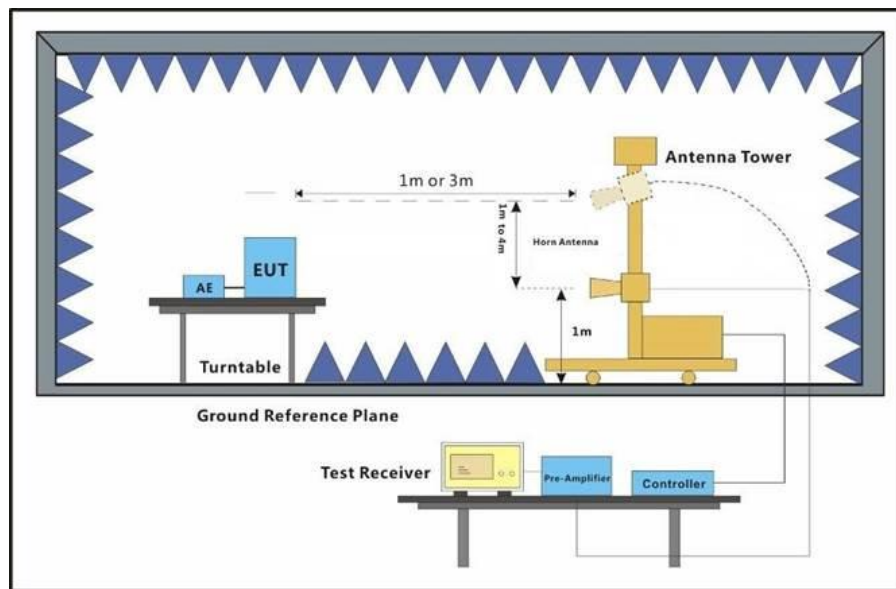


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2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. 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 turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



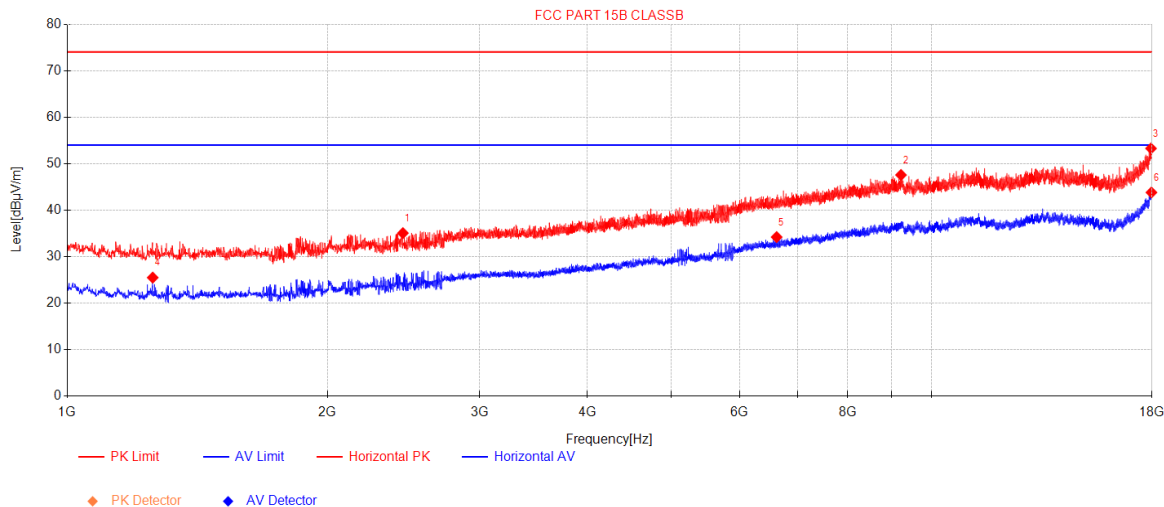
2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed. Scan from 1GHz to 30GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.



Mode:b; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2445.85	54.47	35.06	-19.41	74.00	38.94	152	251	Horizontal
2	9222.05	47.30	47.56	0.26	74.00	26.44	186	154	Horizontal
3	17953.25	41.13	53.27	12.14	74.00	20.73	246	186	Horizontal
4	1255.85	48.69	25.49	-23.20	54.00	28.51	196	226	Horizontal
5	6621.05	41.70	34.20	-7.50	54.00	19.80	248	81	Horizontal
6	17973.65	31.45	43.80	12.35	54.00	10.20	204	58	Horizontal

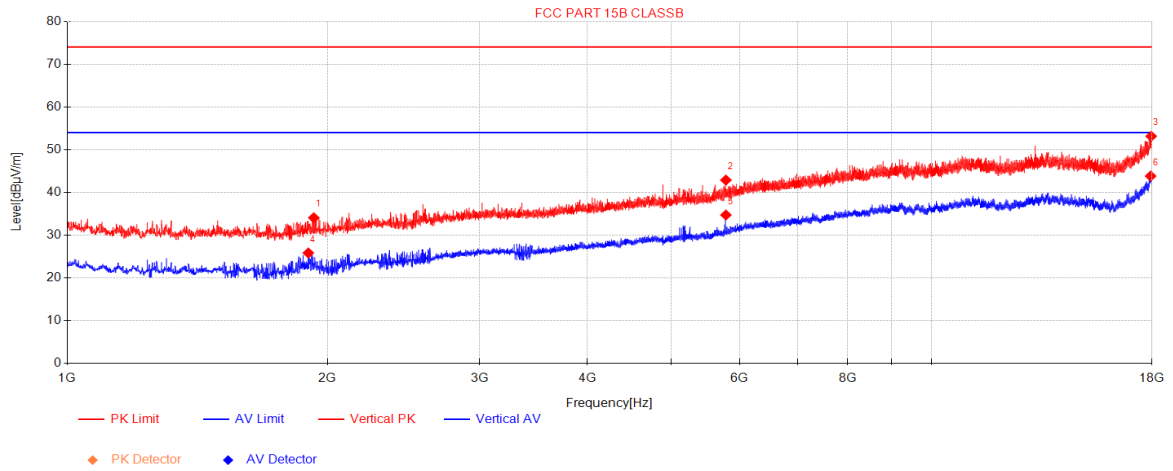


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Mode:b; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1929.05	55.77	34.07	-21.70	74.00	39.93	269	232	Vertical
2	5783.8	52.90	42.89	-10.01	74.00	31.11	248	360	Vertical
3	17960.05	40.92	53.13	12.21	74.00	20.87	214	101	Vertical
4	1901	47.73	25.83	-21.90	54.00	28.17	168	217	Vertical
5	5783.8	44.73	34.72	-10.01	54.00	19.28	144	360	Vertical
6	17935.4	31.86	43.82	11.96	54.00	10.18	284	273	Vertical

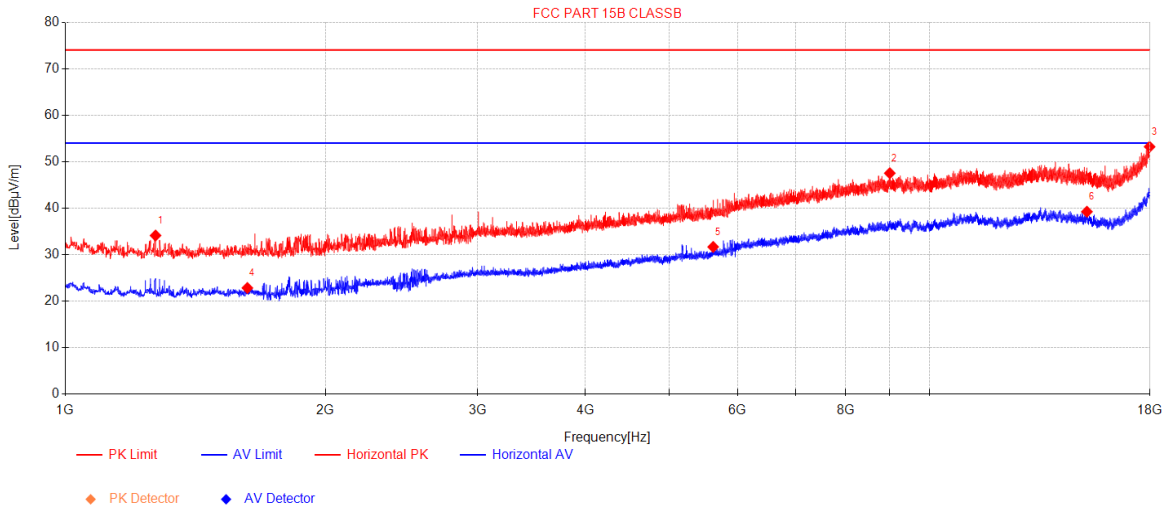


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Mode:e; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1272	57.31	34.11	-23.20	74.00	39.89	186	292	Horizontal
2	8998.5	47.41	47.51	0.10	74.00	26.49	246	201	Horizontal
3	17982.15	40.77	53.20	12.43	74.00	20.80	172	87	Horizontal
4	1624.75	45.69	22.83	-22.86	54.00	31.17	175	193	Horizontal
5	5620.6	42.33	31.66	-10.67	54.00	22.34	346	128	Horizontal
6	15215.4	33.21	39.23	6.02	54.00	14.77	196	177	Horizontal

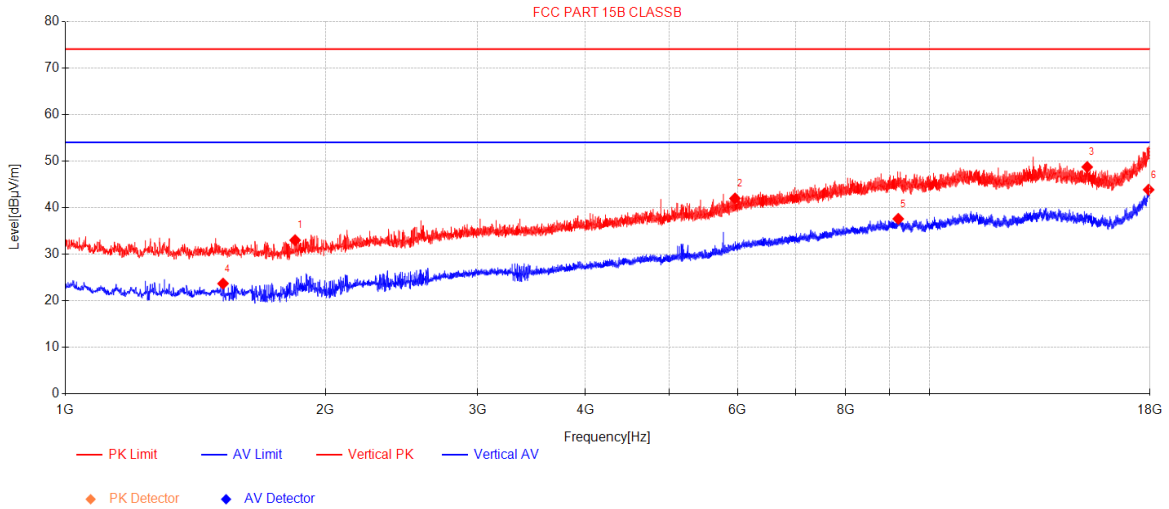


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Mode:e; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1844.9	55.42	32.99	-22.43	74.00	41.01	163	21	Vertical
2	5958.05	51.29	41.95	-9.34	74.00	32.05	175	21	Vertical
3	15226.45	42.81	48.70	5.89	74.00	25.30	385	347	Vertical
4	1522.75	46.65	23.68	-22.97	54.00	30.32	185	225	Vertical
5	9203.35	37.32	37.57	0.25	54.00	16.43	246	347	Vertical
6	17935.4	31.86	43.82	11.96	54.00	10.18	175	273	Vertical



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3 Equipment List

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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RE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)
2	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)



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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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