

Report No.: SUHR/2022/1000607

Rev.: 01

Page: 1 of 29

TEST REPORT

Application No: HR/2022/10006
Applicant: SEUIC Technologies Co., Ltd.
Address of Applicant: NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China
Manufacturer: SEUIC Technologies Co., Ltd.
Address of Manufacturer: NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China
EUT Description: Portable Data Collection Terminal
Model No.: CRUISE2 5GA
Trade Mark: CRUISE
FCC ID: 2AC68-CRUISE25GA
Standard(s): 47 CFR Part 15, Subpart B
Date of Receipt: 2022/2/7
Date of Test: 2022/2/16 to 2022/2/18
Date of Issue: 2022/2/21

Test Result:	Pass*
---------------------	--------------

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

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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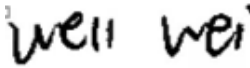
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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2022/2/21		Original

Prepared By		 <hr/> (Weller Liu) / Engineer
Checked By		 <hr/> (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:	Portable Data Collection Terminal		
Model No. (EUT):	CRUISE2 5GA		
Trade Mark:	CRUISE		
Hardware Version:	MC902A-4A_MB_PCBA_V1.01-A4A		
Software Version:	D740_V1.0.76		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	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 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	NR Band n2	1850~1910	1930~1990
	NR Band n5	824~849	869~894
	NR Band n41	2496~2690	2496~2690
NR Band n66	1710~1780	2110~2180	
NR Band n71	663~698	617~652	
NR Band n77	3700~3980	3700~3980	
	3450~3550	3450~3550	
NR Band n78	3700~3800	3700~3800	
	3450~3550	3450~3550	



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	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	NFC	13.56	
	GNSS (GPS+Glonass+ Beidou+Galileo)	1559~1610	1164~1215

Accessory:

Item No.	Mode No.	Manufacturer	Description
AC Adapter (US)	TPA-10R120150UU01	Shenzhen Tianyin Electronics Co.,Ltd.	INPUT: 100-240V-50/60Hz 0.6A Output: 3.6-6.0VDC 3.0A/6.0- 9.0VDC 2.0A/9.0-12.0VDC 1.5A
Battery	BT01740CRUISE	DONGGUAN BOB ELECTRONICS CO.,LTD.	3.85 Vdc, 5000mAh Type: Li-ion Polymer battery pack
USB Cable	D710S_TYPEC_WIRE_V1	ACH ELECTRONICS CO., LTD	1.0meter, non-shielded cable, with w/o ferrite core



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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
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06

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: 717327

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: 101.0 kPa

Pretest these modes to find the worst case:	a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
	b: Adaptor+USB+BT Idle+WLAN(5G) +Camera (Front)+WCDMA 5
	c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 5
	d: Adaptor+USB+BT Idle+WLAN(5G) +NFC On+LTE Band 12
	e: Adaptor+USB+BT Idle+WLAN(2.4G)+Scan Code+LTE Band 13
	f: Adaptor+USB+BT Idle+WLAN(5G) +GPS RX+LTE Band 17
	g: Adaptor+USB+BT Idle+WLAN(2.4G)+GPS RX+LTE Band 26
	h: Transfer data between the EUT and the PC+USB+WLAN(5G) +GPS RX SA Band 5
	i: Transfer data between the EUT and the PC+USB+WLAN (2.4G) +GPS RX SA Band 71
The worst case for final test:	d: Adaptor+USB+BT Idle+WLAN(5G) +NFC On+LTE Band 12
	i: Transfer data between the EUT and the PC+USB+WLAN (2.4G) +GPS RX SA Band 71



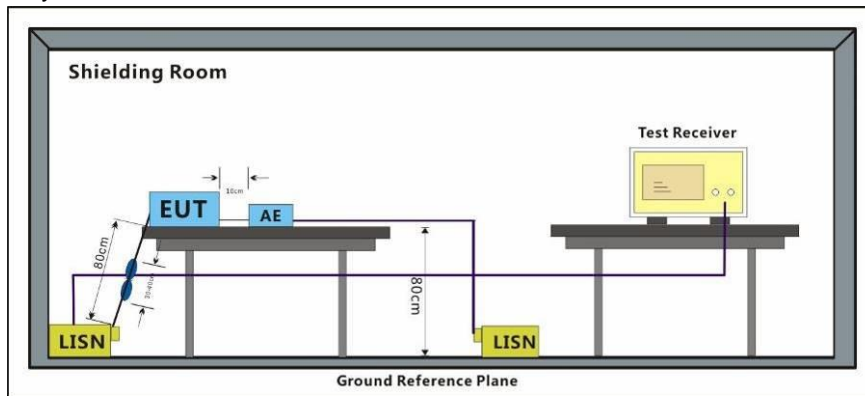
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2.1.2 Test Setup Procedures

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.

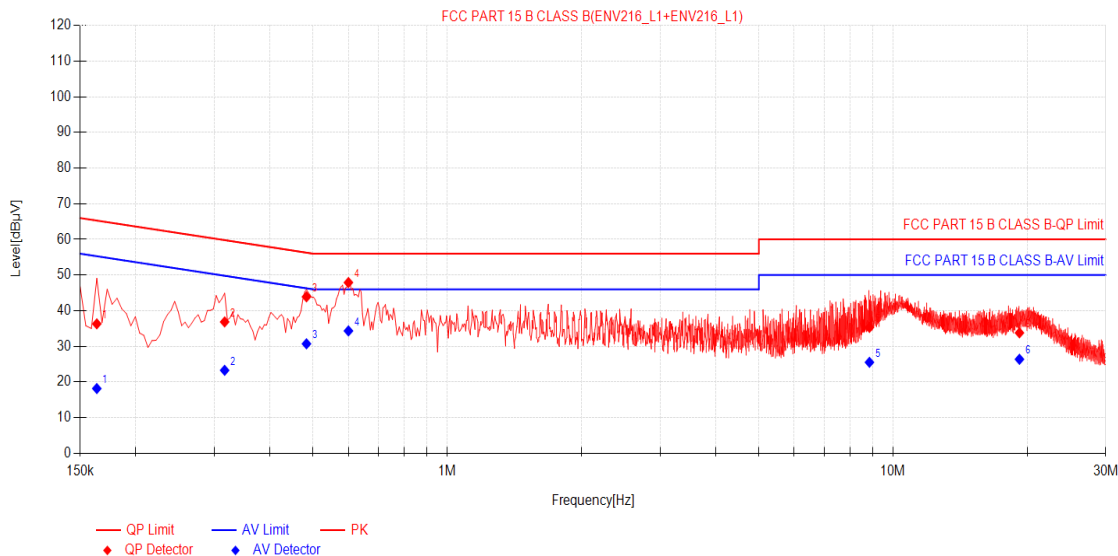


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Mode :d; Line:Live Line



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	36.31	65.28	28.97	18.17	55.28	37.11	PASS
2	0.3165	10.58	36.86	59.80	22.94	23.28	49.80	26.52	PASS
3	0.4830	10.60	43.91	56.29	12.38	30.72	46.29	15.57	PASS
4	0.6000	10.50	47.91	56.00	8.09	34.34	46.00	11.66	PASS
5	8.8530	10.66	35.32	60.00	24.68	25.52	50.00	24.48	PASS
6	19.2165	10.43	33.78	60.00	26.22	26.37	50.00	23.63	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



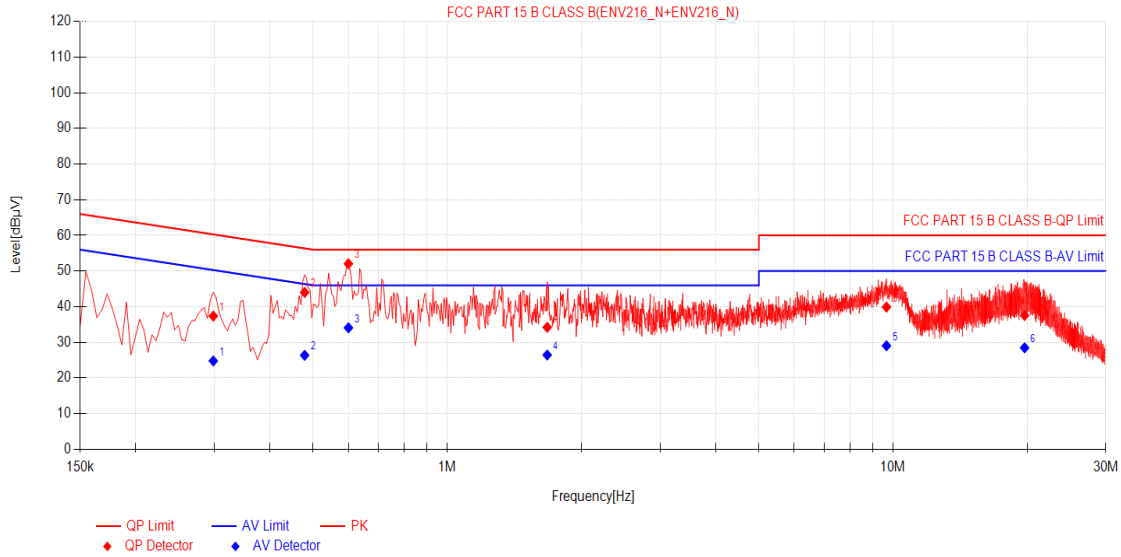
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Mode :d; Line:Neutral Line



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2985	10.76	37.37	60.28	22.91	24.79	50.28	25.49	PASS
2	0.4785	10.81	44.00	56.37	12.37	26.37	46.37	20.00	PASS
3	0.6000	10.68	52.04	56.00	3.96	34.09	46.00	11.91	PASS
4	1.6755	10.77	34.23	56.00	21.77	26.45	46.00	19.55	PASS
5	9.6675	10.66	39.90	60.00	20.10	29.04	50.00	20.96	PASS
6	19.7340	10.41	37.54	60.00	22.46	28.47	50.00	21.53	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Mode :i; Line:Live Line



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.5055	10.61	45.27	56.00	10.73	33.59	46.00	12.41	PASS
2	0.9195	10.58	42.22	56.00	13.78	30.42	46.00	15.58	PASS
3	1.2120	10.78	40.73	56.00	15.27	28.86	46.00	17.14	PASS
4	2.3820	10.66	38.58	56.00	17.42	27.29	46.00	18.71	PASS
5	4.6590	10.67	37.19	56.00	18.81	25.93	46.00	20.07	PASS
6	15.7335	10.51	37.86	60.00	22.14	23.85	50.00	26.15	PASS

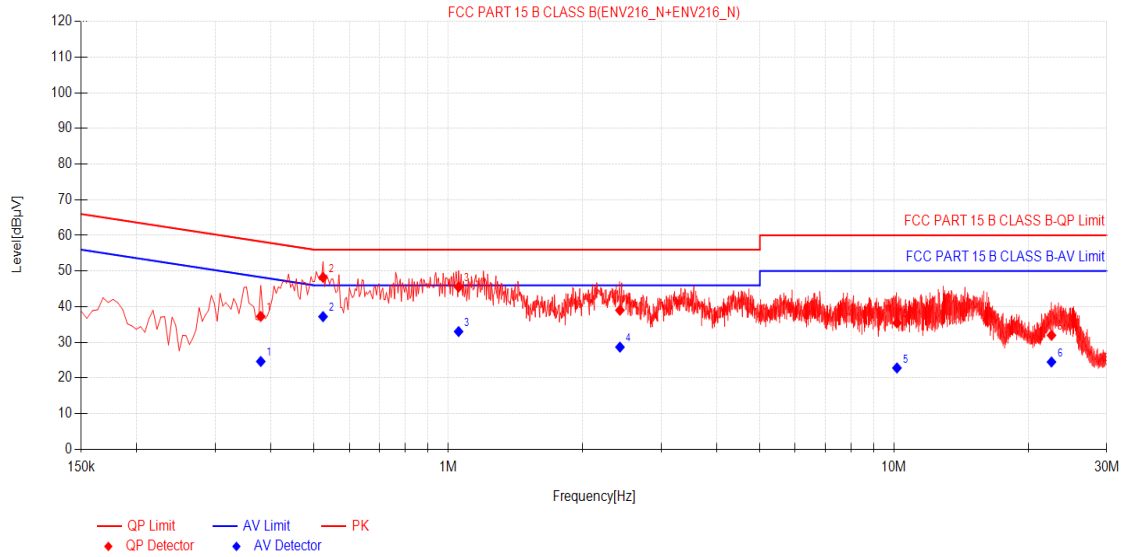
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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Mode :i; Line:Neutral Line



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3795	10.82	37.28	58.29	21.01	24.63	48.29	23.66	PASS
2	0.5235	10.78	48.21	56.00	7.79	37.21	46.00	8.79	PASS
3	1.0545	10.67	45.52	56.00	10.48	33.03	46.00	12.97	PASS
4	2.4270	10.78	39.01	56.00	16.99	28.66	46.00	17.34	PASS
5	10.1535	10.67	35.46	60.00	24.54	22.82	50.00	27.18	PASS
6	22.5555	10.46	31.97	60.00	28.03	24.49	50.00	25.51	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor(Lisn factor + cable loss).



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Report No.: SUHR/2022/1000607

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:101.0 kPa

Pretest these modes to find the worst case:
 a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
 b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+WCDMA 5
 c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 5
 d: Adaptor+USB+BT Idle+WLAN(5G)+NFC On+LTE Band 12
 e: Adaptor+USB+BT Idle+WLAN(2.4G)+Scan Code+LTE Band 13
 f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17
 g: Adaptor+USB+BT Idle+WLAN(5G)+(Mode 1-6 worse)+LTE Band 26
 h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5
 i: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 71

The worst case for final test:
 f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17
 h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5

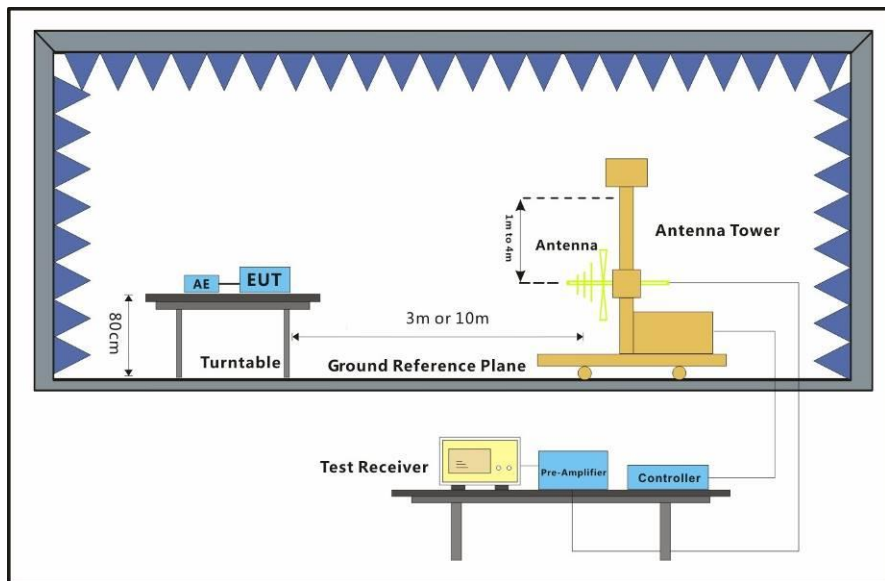


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2.2.2 Test Setup Procedures

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

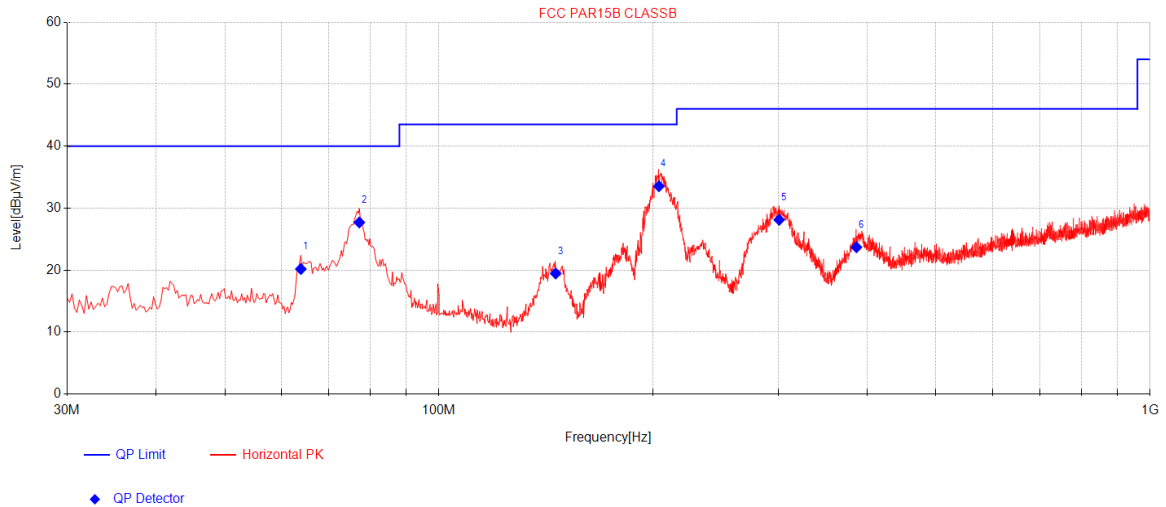
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only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



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Mode :f; Polarization:Horizontal



Remark:

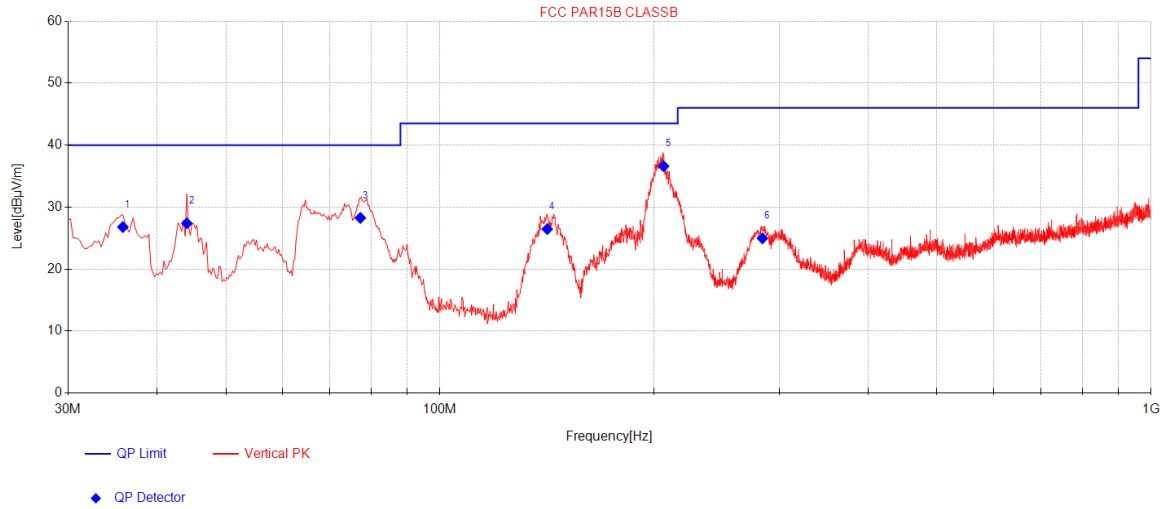
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.95	37.52	-17.34	20.18	40.00	19.82	162	185	Horizontal
2	77.2875	48.11	-20.42	27.69	40.00	12.31	196	96	Horizontal
3	145.915	39.56	-20.10	19.46	43.50	24.04	248	28	Horizontal
4	203.8725	49.63	-16.10	33.53	43.50	9.97	284	162	Horizontal
5	300.8725	41.03	-12.91	28.12	46.00	17.88	185	185	Horizontal
6	386.475	33.86	-10.17	23.69	46.00	22.31	166	261	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



Mode :f; Polarization:Vertical



Final 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	35.82	44.15	-17.36	26.79	40.00	13.21	162	19	Vertical
2	44.065	42.52	-15.14	27.38	40.00	12.62	185	3	Vertical
3	77.2875	48.68	-20.42	28.26	40.00	11.74	294	58	Vertical
4	141.55	46.22	-19.76	26.46	43.50	17.04	185	136	Vertical
5	206.2975	52.52	-15.92	36.60	43.50	6.90	245	165	Vertical
6	284.14	38.66	-13.68	24.98	46.00	21.02	241	116	Vertical

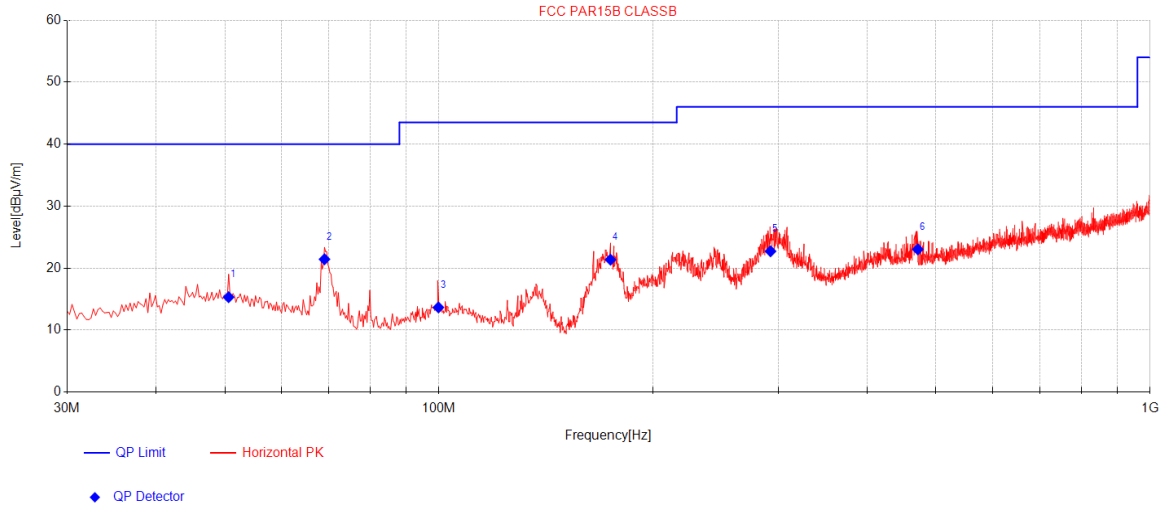
Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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Mode :h; Polarization:Horizontal



Final 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	50.6125	29.65	-14.33	15.32	40.00	24.68	261	7	Horizontal
2	69.0425	40.2	-18.77	21.43	40.00	18.57	284	332	Horizontal
3	99.84	30.26	-16.59	13.67	43.50	29.83	152	137	Horizontal
4	174.2875	39.85	-18.49	21.36	43.50	22.14	165	350	Horizontal
5	292.6275	35.75	-13.03	22.72	46.00	23.28	196	283	Horizontal
6	471.35	31.52	-8.49	23.03	46.00	22.97	241	292	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



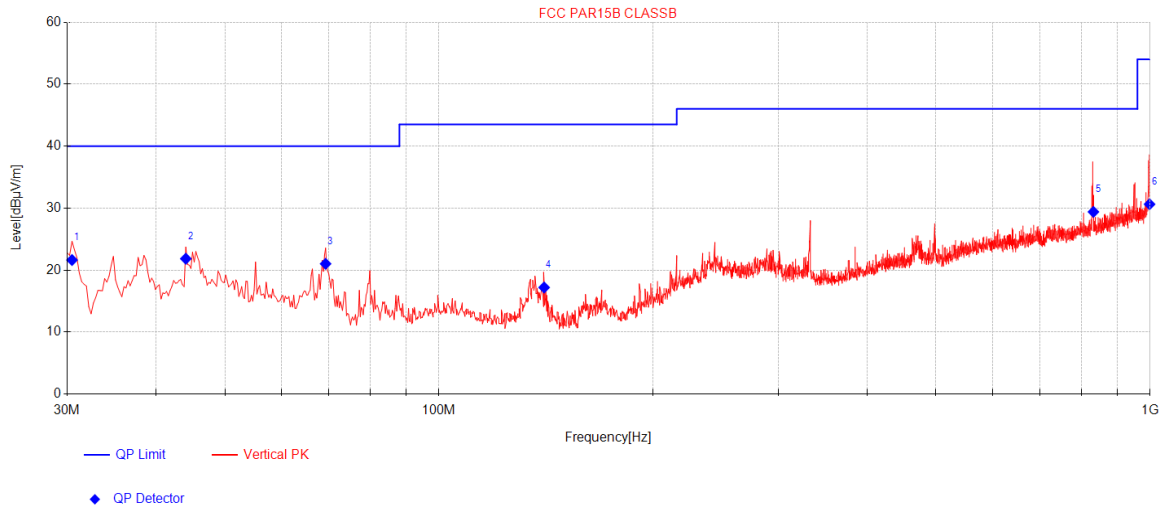
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Mode :h; Polarization:Vertical



Final 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	30.485	39.85	-18.22	21.63	40.00	18.37	162	360	Vertical
2	44.065	36.98	-15.14	21.84	40.00	18.16	185	3	Vertical
3	69.285	39.86	-18.84	21.02	40.00	18.98	145	357	Vertical
4	140.58	36.88	-19.68	17.20	43.50	26.30	246	273	Vertical
5	832.4325	31.85	-2.45	29.40	46.00	16.60	175	187	Vertical
6	998.3025	30.96	-0.33	30.63	54.00	23.37	156	359	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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Report No.: SUHR/2022/1000607

Rev.: 01

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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: 101.0 kPa

Pretest these modes to find the worst case:

a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850

b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+WCDMA 5

c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 5

d: Adaptor+USB+BT Idle+WLAN(5G)+NFC On+LTE Band 12

e: Adaptor+USB+BT Idle+WLAN(2.4G)+Scan Code+LTE Band 13

f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17

g: Adaptor+USB+BT Idle+WLAN(5G)+(Mode 1-6 worse)+LTE Band 26

h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5

i: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 71

The worst case for final test:

f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17

h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5



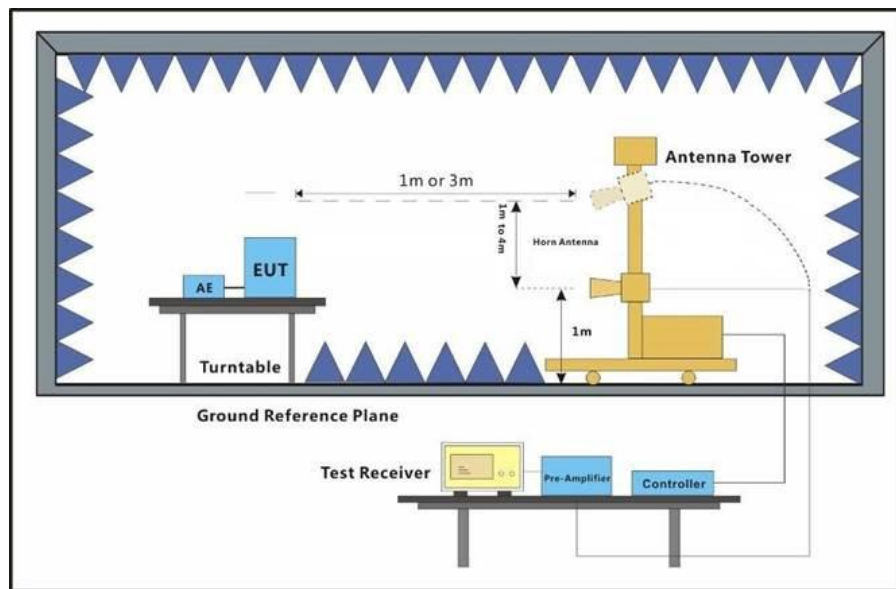
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2.3.2 Test Setup Procedures

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.



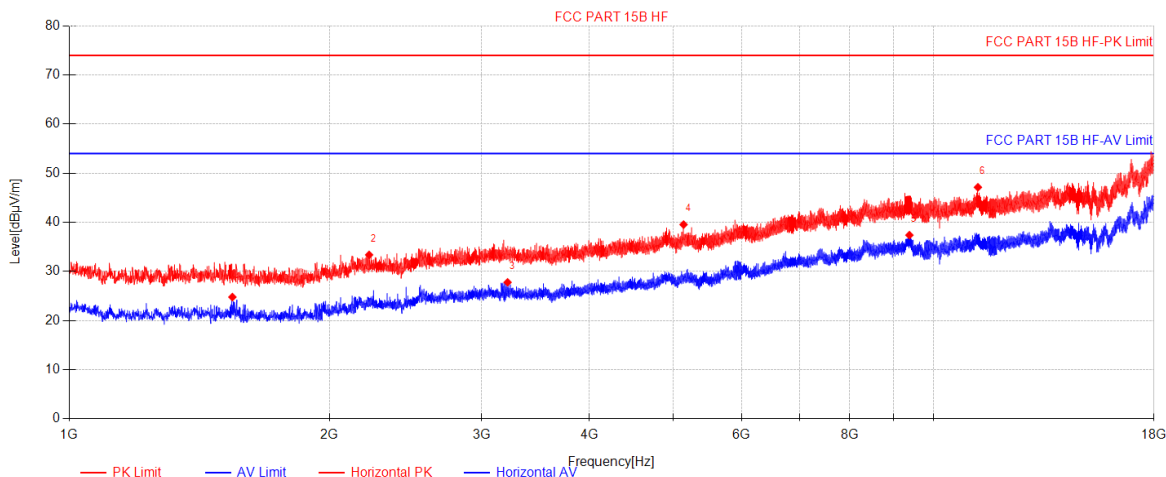
2.3.3 Measurement Data

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 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only points had been displayed.



Mode :f; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1544.5	47.65	24.77	-22.88	54.00	29.23	155	36	Horizontal
2	2223.5	53.66	33.37	-20.29	74.00	40.63	187	59	Horizontal
3	3215.5	44.47	27.78	-16.69	54.00	26.22	192	0	Horizontal
4	5139	51.81	39.54	-12.27	74.00	34.46	245	332	Horizontal
5	9380.5	38.72	37.39	-1.33	54.00	16.61	286	141	Horizontal
6	11259.5	45.50	47.14	1.64	74.00	26.86	231	169	Horizontal

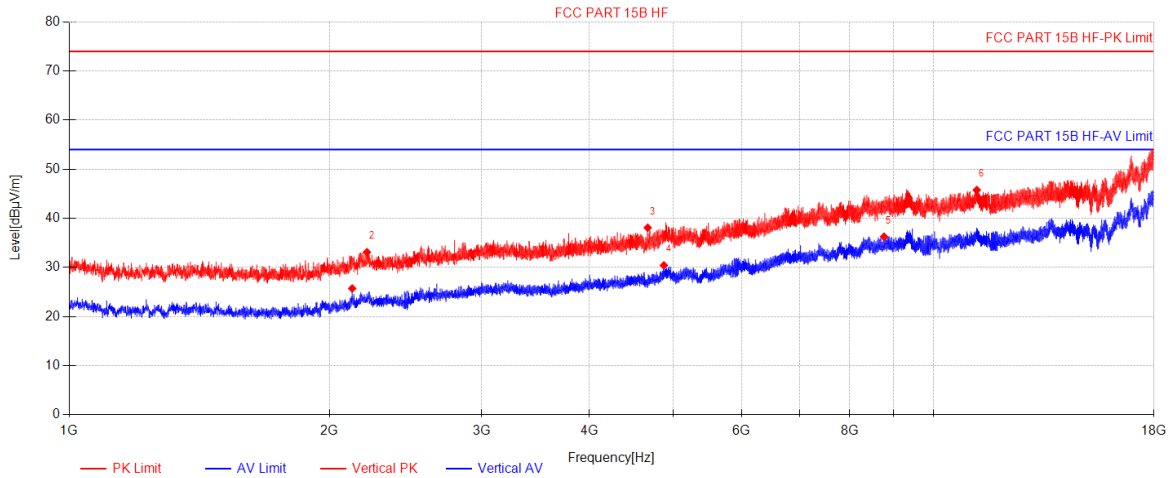
Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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Mode :f; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2125.5	46.33	25.71	-20.62	54.00	28.29	118	110	Vertical
2	2210.5	53.42	33.10	-20.32	74.00	40.90	142	300	Vertical
3	4670.5	51.96	38.09	-13.87	74.00	35.91	229	360	Vertical
4	4876	43.48	30.42	-13.06	54.00	23.58	281	191	Vertical
5	8768.5	39.67	36.26	-3.41	54.00	17.74	173	137	Vertical
6	11225	44.20	45.77	1.57	74.00	28.23	166	137	Vertical

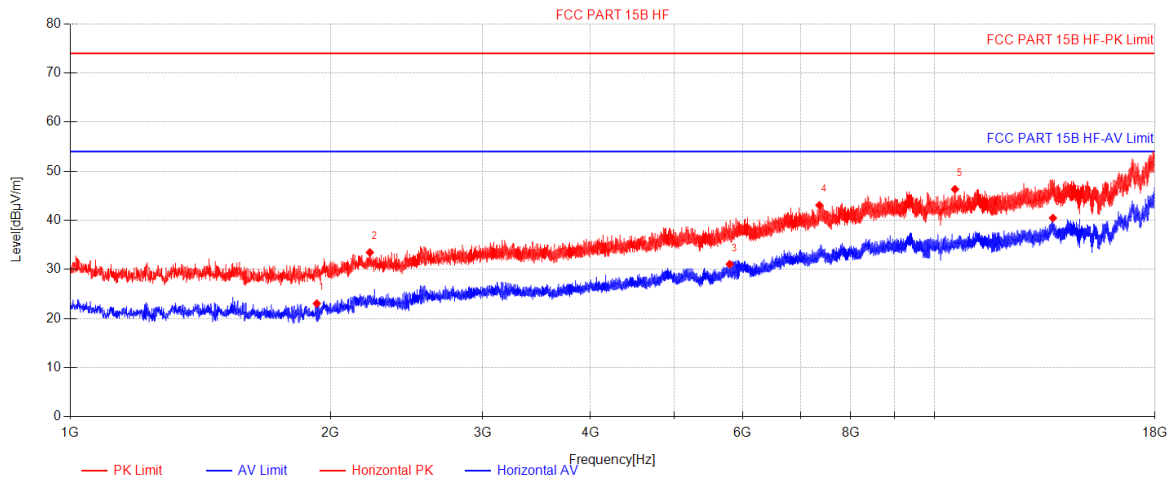
Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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Mode :h; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1929	44.85	23.05	-21.80	54.00	30.95	144	15	Horizontal
2	2222	53.75	33.46	-20.29	74.00	40.54	255	356	Horizontal
3	5797	41.98	31.06	-10.92	54.00	22.94	126	1	Horizontal
4	7360.5	49.91	43.08	-6.83	74.00	30.92	291	304	Horizontal
5	10564	45.97	46.33	0.36	74.00	27.67	175	114	Horizontal
6	13715.5	36.61	40.47	3.86	54.00	13.53	134	30	Horizontal

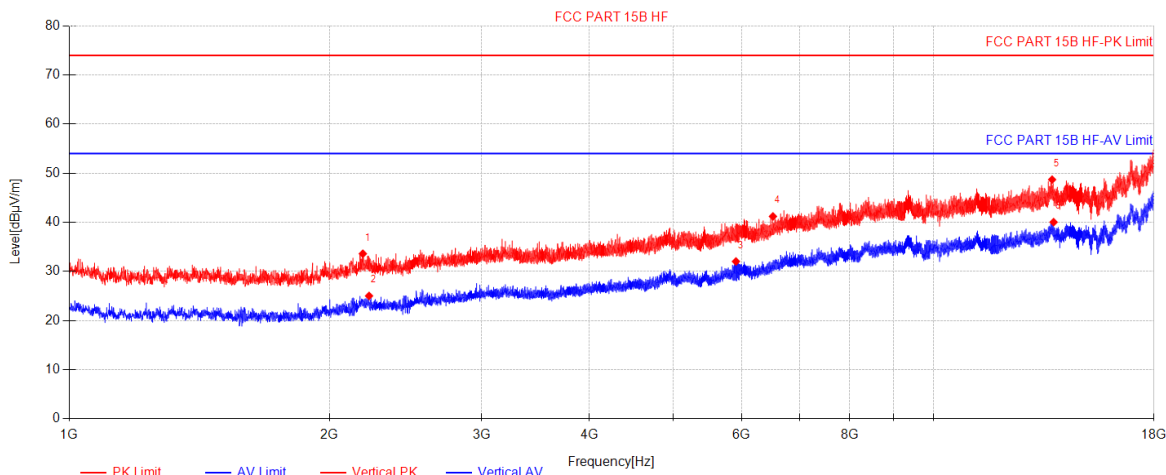
Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Pre-amplifier Factor).



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Mode :h; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2186.5	53.99	33.60	-20.39	74.00	40.40	128	165	Vertical
2	2223	45.30	25.01	-20.29	54.00	28.99	194	4	Vertical
3	5909	42.99	32.03	-10.96	54.00	21.97	172	82	Vertical
4	6521	50.70	41.20	-9.50	74.00	32.80	132	275	Vertical
5	13721	44.87	48.70	3.83	74.00	25.30	233	138	Vertical
6	13775.5	36.48	40.04	3.56	54.00	13.96	265	275	Vertical

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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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
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	2022/1/10	2022/1/9
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/16	2023/2/15



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RSE 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
				2022/2/16	2023/2/15
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
				2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/14	2022/5/13
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2022/2/15	2023/2/14
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	2022/1/10	2022/1/9
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2021/2/20	2022/2/19
				2022/2/14	2023/2/13



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz to 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (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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