

Report No.: SEWM2206000075RG05
Rev.: 01
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TEST REPORT

Application No:	SEWM2206000075RG
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
EUT Description:	Smart Phone
Model No.:	SL104D
Trade Mark:	SUMMIT
FCC ID:	2A28USL104D
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2022/6/7
Date of Test:	2022/6/15 to 2022/6/30
Date of Issue:	2022/7/6
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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Wireless Laboratory

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Revision Record

Version	Chapter	Date	Modifier	Remark
01		2022/7/6		Original

Prepared By	<i>Weller Liu</i>
	(Weller Liu) / Test Supervisor
Checked By	<i>Well Wei</i>
	(Well Wei) / Reviewer

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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 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):	SL104D		
Trade Mark:	SUMMIT		
Hardware Version:	1.0		
Software Version:	SL104DD10013		
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 12	699~716	729~746
	LTE Band 14	788~798	746~756
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 30	2305~2315	2305~2315
	LTE Band 66	1710~1780	2110~2180
	LTE Band 71	663~698	617~652
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	GNSS(GPS+Glonass)	/	1559~1610
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Accessory:

Adapter No.	Model No.	Manufacturer	Specification
1	TPA-46B050100UU	SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Input: 100-240V-50/60Hz 0.2A Output: 5.0V = 1000mA

Battery No.	Model No.	Manufacturer	Specification
1	BL-A41CT	Shenzhen Aerospace Electronic Co.,Ltd.	2950mAh/3.8V

Cable No.	Model No.	Manufacturer	Specification
1	26AWG*2C+30AWG*2C	SHEN ZHEN SHI TIAN DI KUAN TECHNOLOGY CO.,LTD	Type C Micro USB C

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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:	King-p Li

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		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)		Limit(dB μ V)
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50

*Decreases with the logarithm of the frequency
 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:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850 b: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+WCDMA V c: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+MP4+LTE Band 5 d: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+GPS RX+LTE Band 12 e: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 14 f: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 26 g: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 71 h: Transfer data between the EUT and the PC+USB cable
The worst case for final test:	b: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+WCDMA V h: Transfer data between the EUT and the PC+USB cable

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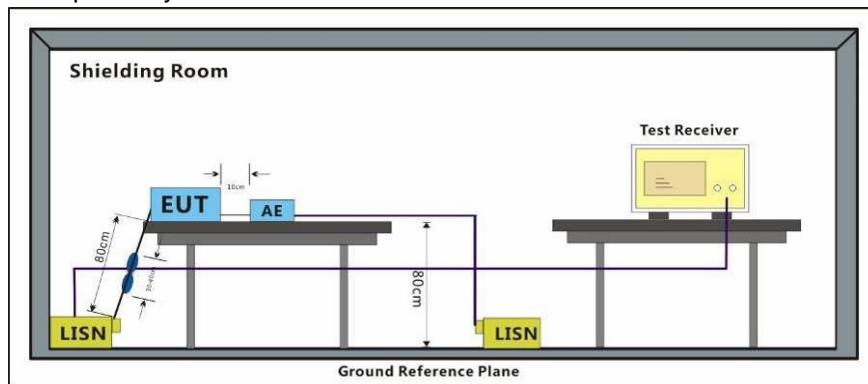
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2.1.2 Test Setup Procedures

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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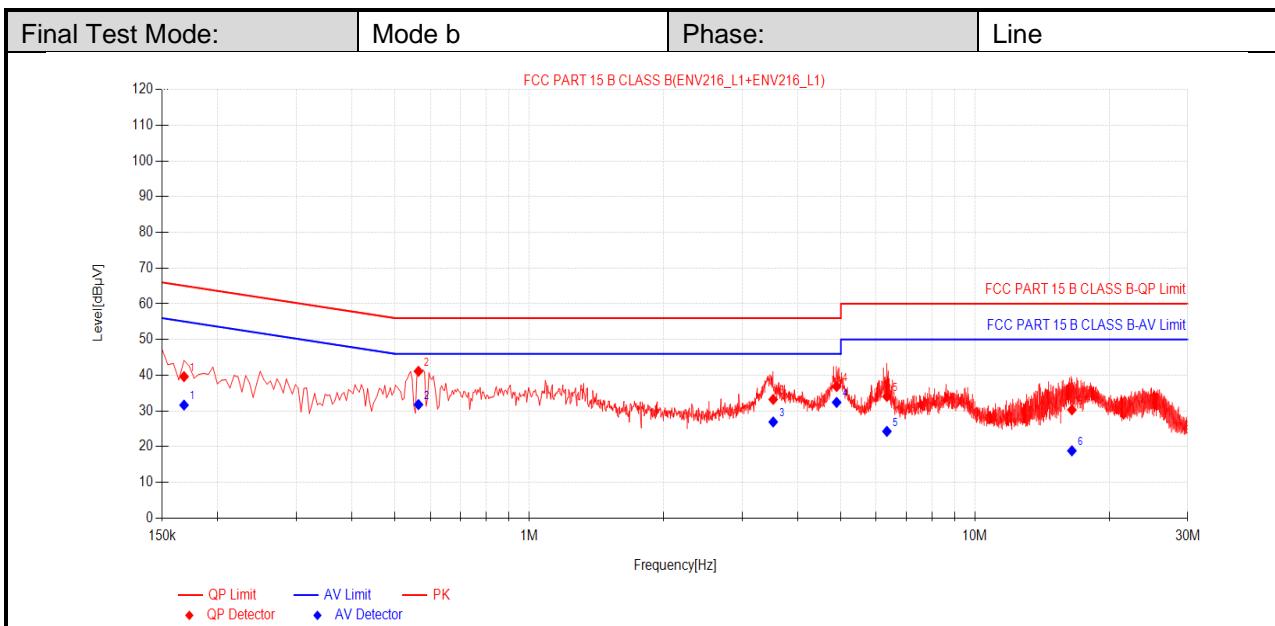
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Final Data List											
NO	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1680	10.71	28.91	39.62	65.06	25.44	20.94	31.65	55.06	23.41	PASS
2	0.5640	10.55	30.56	41.11	56.00	14.89	21.25	31.80	46.00	14.20	PASS
3	3.5250	10.70	22.53	33.23	56.00	22.77	16.22	26.92	46.00	19.08	PASS
4	4.8930	10.64	26.21	36.85	56.00	19.15	21.76	32.40	46.00	13.60	PASS
5	6.3420	10.68	23.39	34.07	60.00	25.93	13.60	24.28	50.00	25.72	PASS
6	16.4940	10.50	19.82	30.32	60.00	29.68	8.35	18.85	50.00	31.15	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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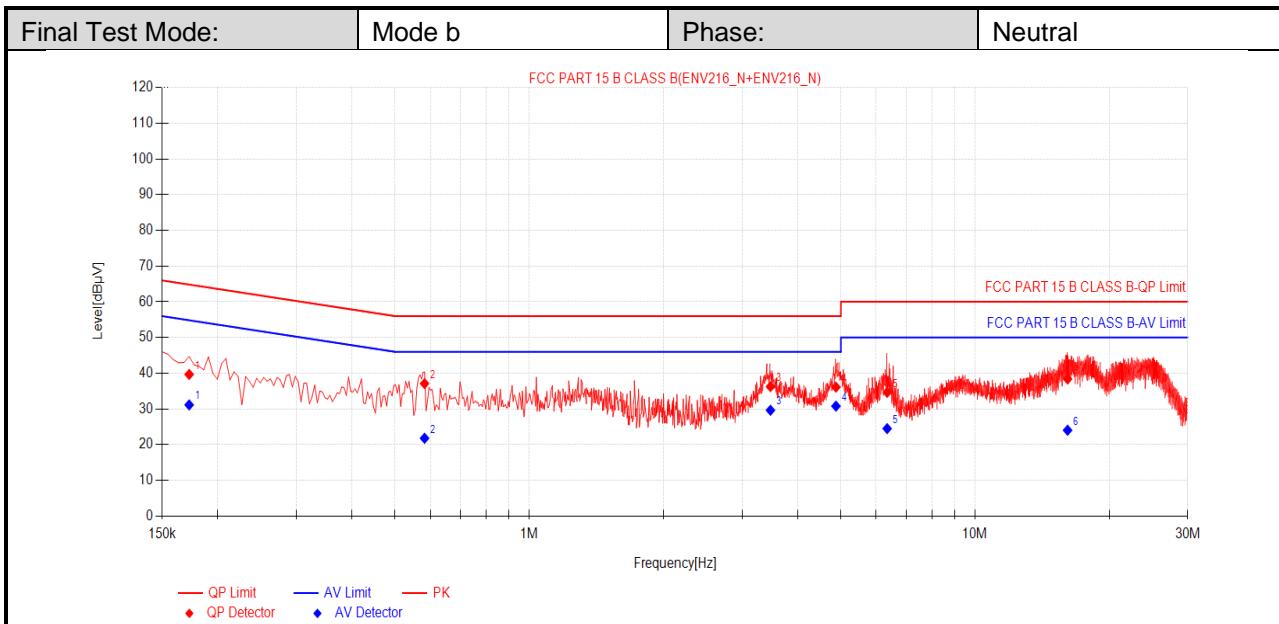
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Final Data List											
NO	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1725	10.71	28.96	39.67	64.84	25.17	20.43	31.14	54.84	23.70	PASS
2	0.5820	10.70	26.40	37.10	56.00	18.90	11.10	21.80	46.00	24.20	PASS
3	3.4755	10.66	25.60	36.26	56.00	19.74	18.98	29.64	46.00	16.36	PASS
4	4.8750	10.64	25.48	36.12	56.00	19.88	20.16	30.80	46.00	15.20	PASS
5	6.3510	10.55	24.10	34.65	60.00	25.35	13.95	24.50	50.00	25.50	PASS
6	16.1295	10.57	27.82	38.39	60.00	21.61	13.48	24.05	50.00	25.95	PASS

Remark:

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



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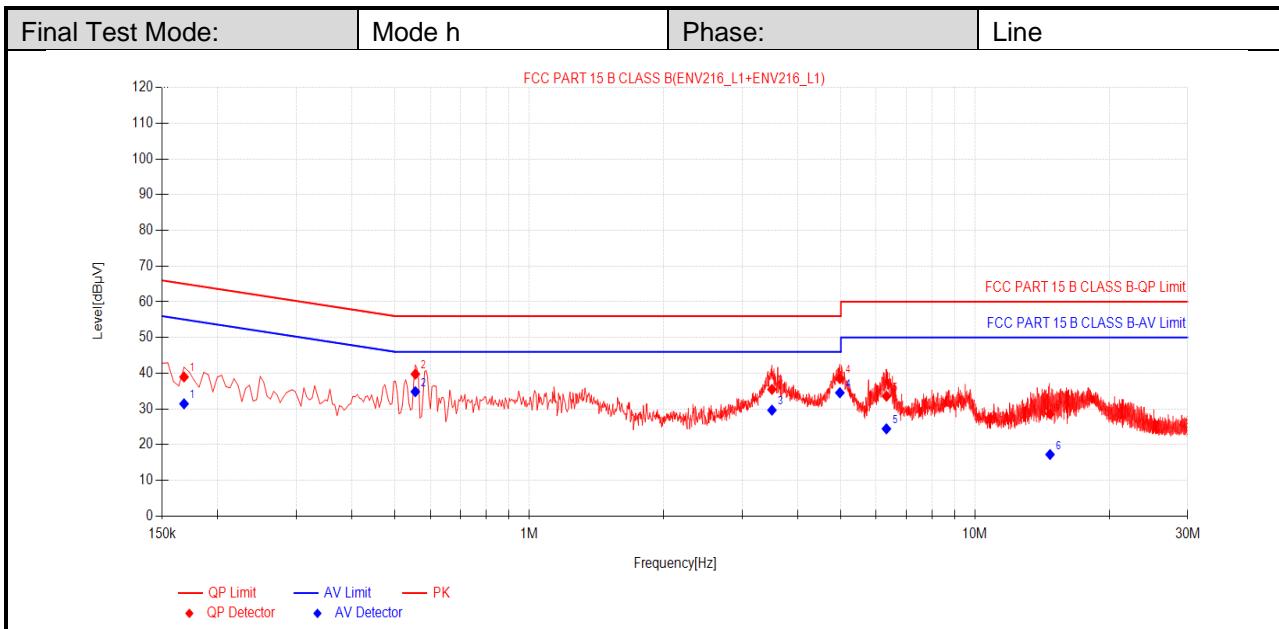
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1	0.1680	10.71	28.25	38.96	65.06	26.10	20.73	31.44	55.06	23.62	PASS
2	0.5550	10.56	29.20	39.76	56.00	16.24	24.28	34.84	46.00	11.16	PASS
3	3.5025	10.70	24.78	35.48	56.00	20.52	18.96	29.66	46.00	16.34	PASS
4	4.9740	10.64	27.86	38.50	56.00	17.50	23.90	34.54	46.00	11.46	PASS
5	6.3285	10.68	22.89	33.57	60.00	26.43	13.76	24.44	50.00	25.56	PASS
6	14.7345	10.53	18.08	28.61	60.00	31.39	6.72	17.25	50.00	32.75	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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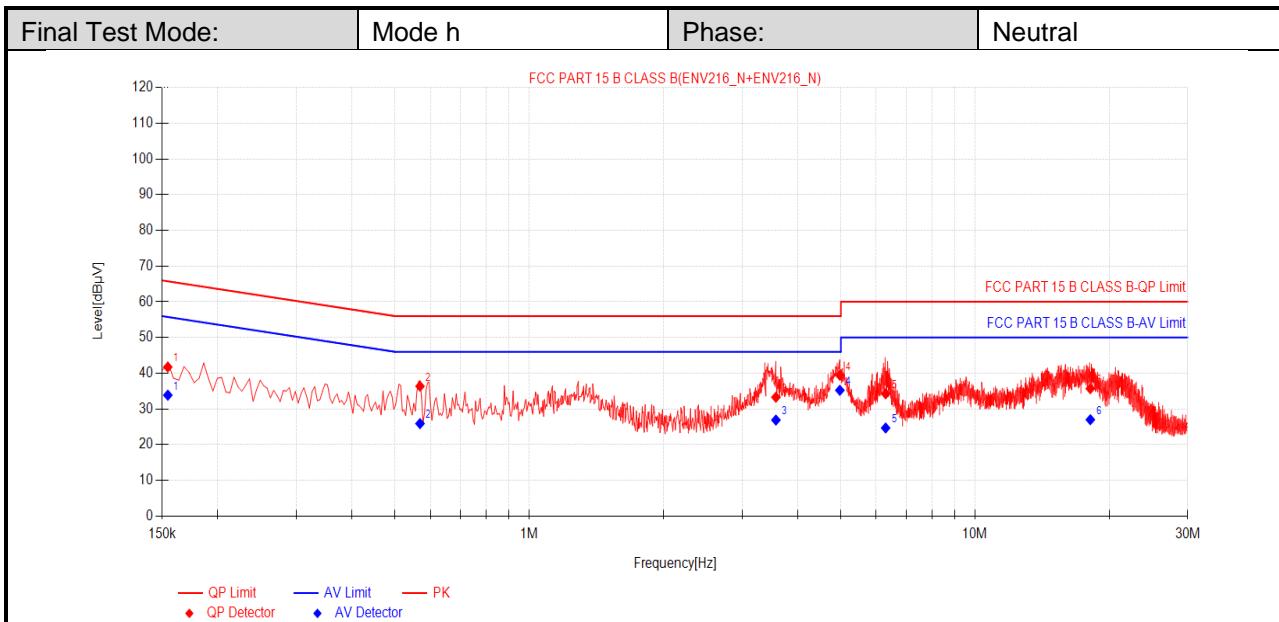
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Final Data List											
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1	0.1545	10.72	31.02	41.74	65.75	24.01	23.14	33.86	55.75	21.89	PASS
2	0.5685	10.72	25.65	36.37	56.00	19.63	15.19	25.91	46.00	20.09	PASS
3	3.5745	10.68	22.59	33.27	56.00	22.73	16.21	26.89	46.00	19.11	PASS
4	4.9740	10.64	28.80	39.44	56.00	16.56	24.59	35.23	46.00	10.77	PASS
5	6.3015	10.56	23.69	34.25	60.00	25.75	14.11	24.67	50.00	25.33	PASS
6	18.1455	10.48	25.21	35.69	60.00	24.31	16.52	27.00	50.00	23.00	PASS

Remark:

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

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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:	Frequency Range (MHz)	Limit(dB μ V/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1000MHz	54.0	Quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

2.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850 b: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+WCDMA V c: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+MP4+LTE Band 5 d: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+GPS RX+LTE Band 12 e: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 14 f: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 26 g: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 71 h: Transfer data between the EUT and the PC+USB cable
The worst case for final test:	f: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 26 h: Transfer data between the EUT and the PC+USB cable

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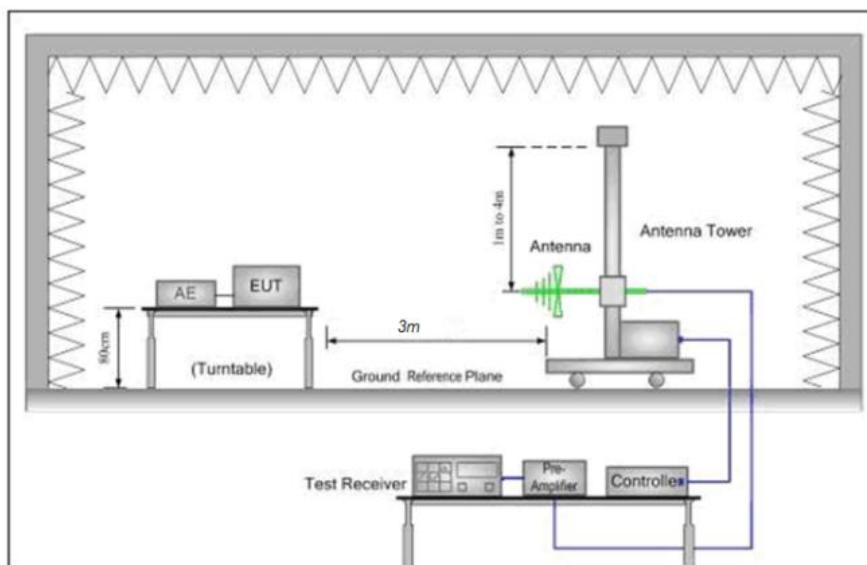
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2.2.2 Test Setup Procedures

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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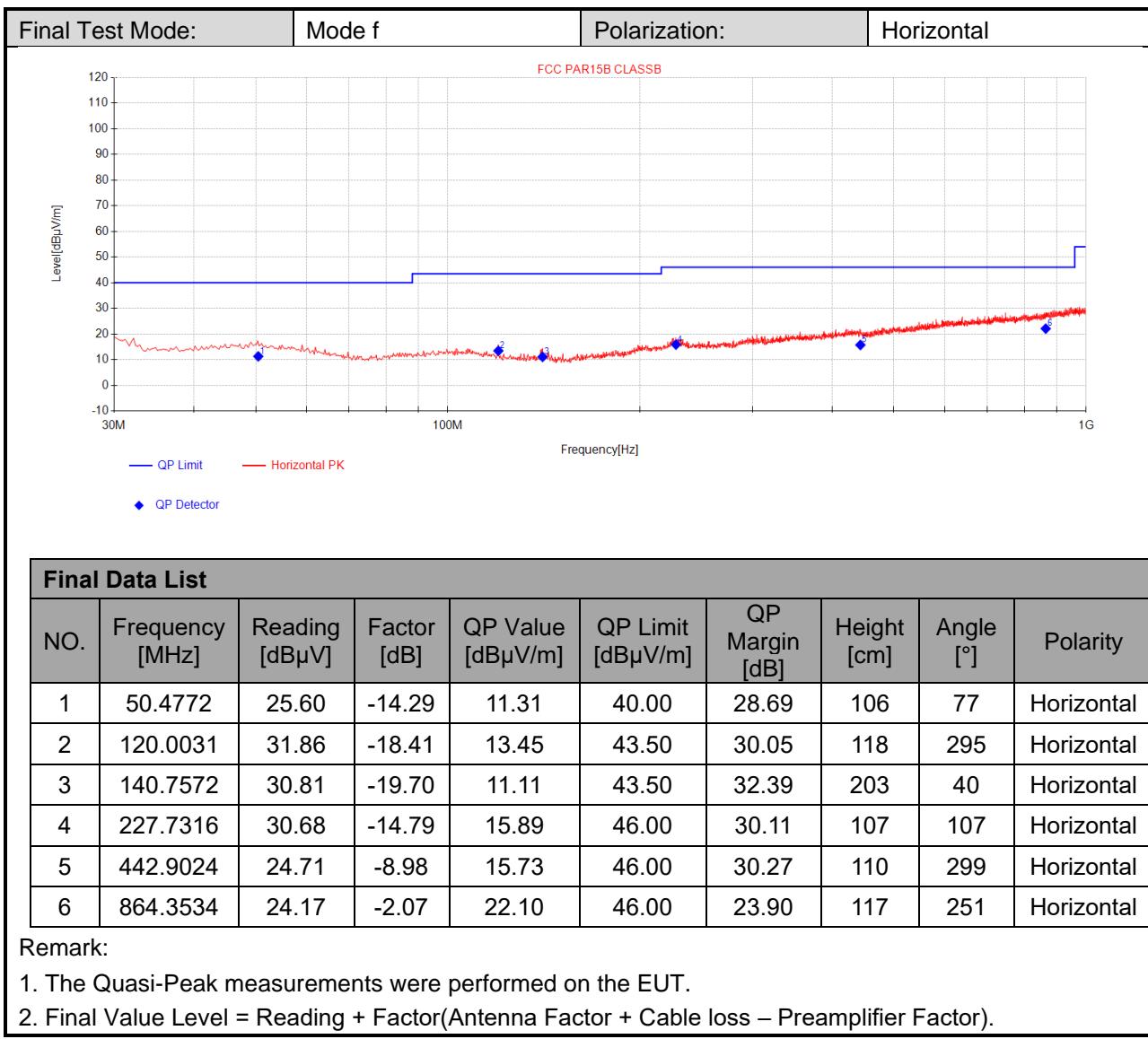
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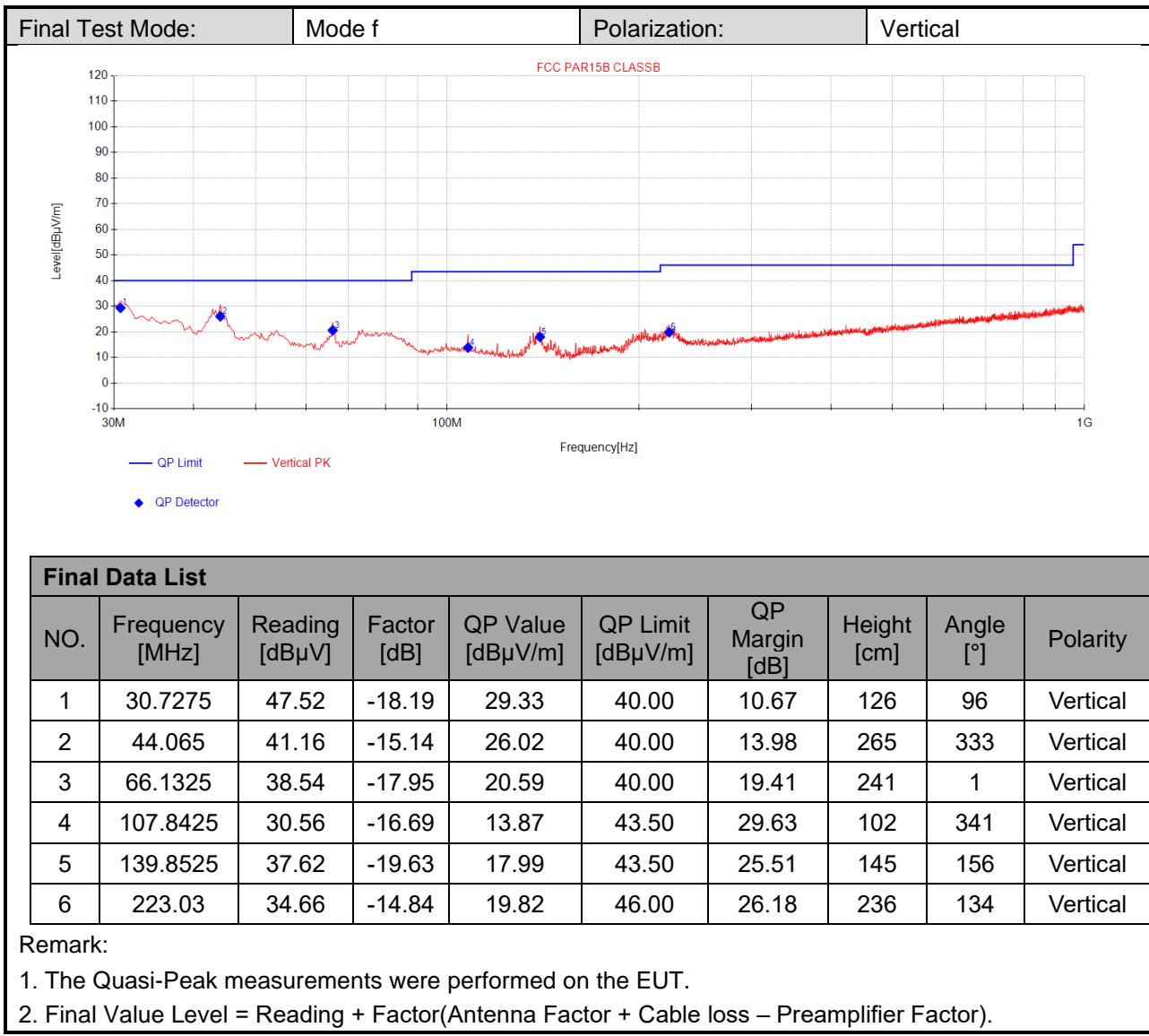
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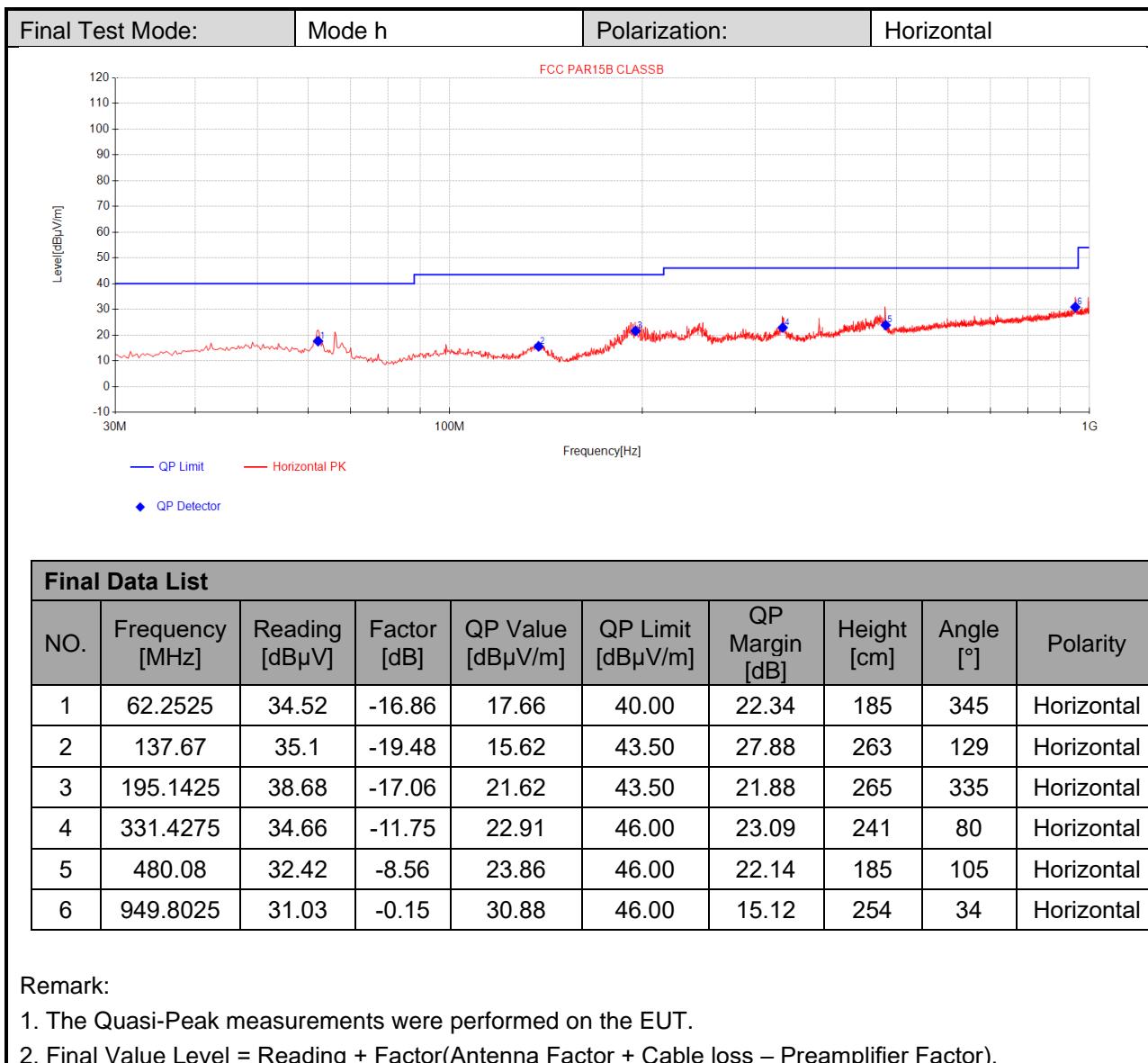
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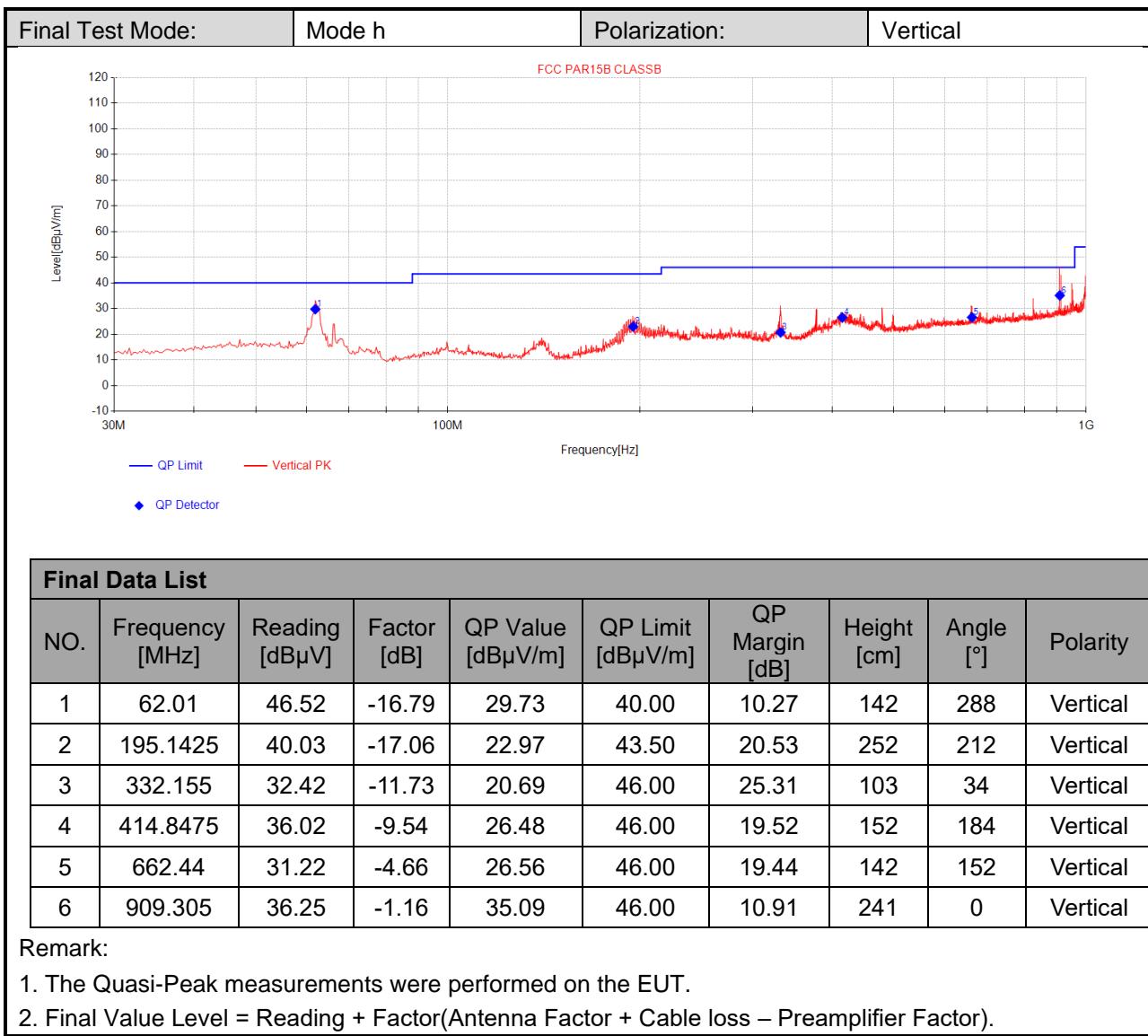
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2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dB μ V/m)	Detector
	Above 1GHz	74	Peak
		54	Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

2.3.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850 b: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+WCDMA V c: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+MP4+LTE Band 5 d: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+GPS RX+LTE Band 12 e: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 14 f: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 26 g: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 71 h: Transfer data between the EUT and the PC+USB cable
The worst case for final test:	f: Adaptor+USB+Battery+BT Idle+WLAN(2.4G)+Camera(Front)+LTE Band 26 h: Transfer data between the EUT and the PC+USB cable



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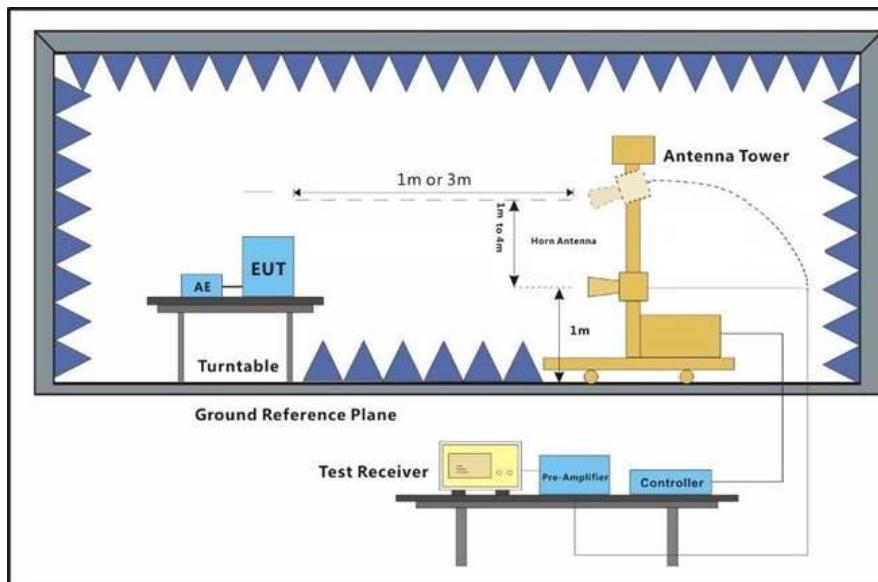
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2.3.2 Test Setup Procedures

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
(Distance from antenna to EUT is 1m for measurements >18GHz).
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.
7. At a measurement distance of 1 meter the limit line was increased by $20 \times \log(3/1) = 9.54$ dB.



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 5th harmonic of the highest frequency or 40GHz, whichever is lower, 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.



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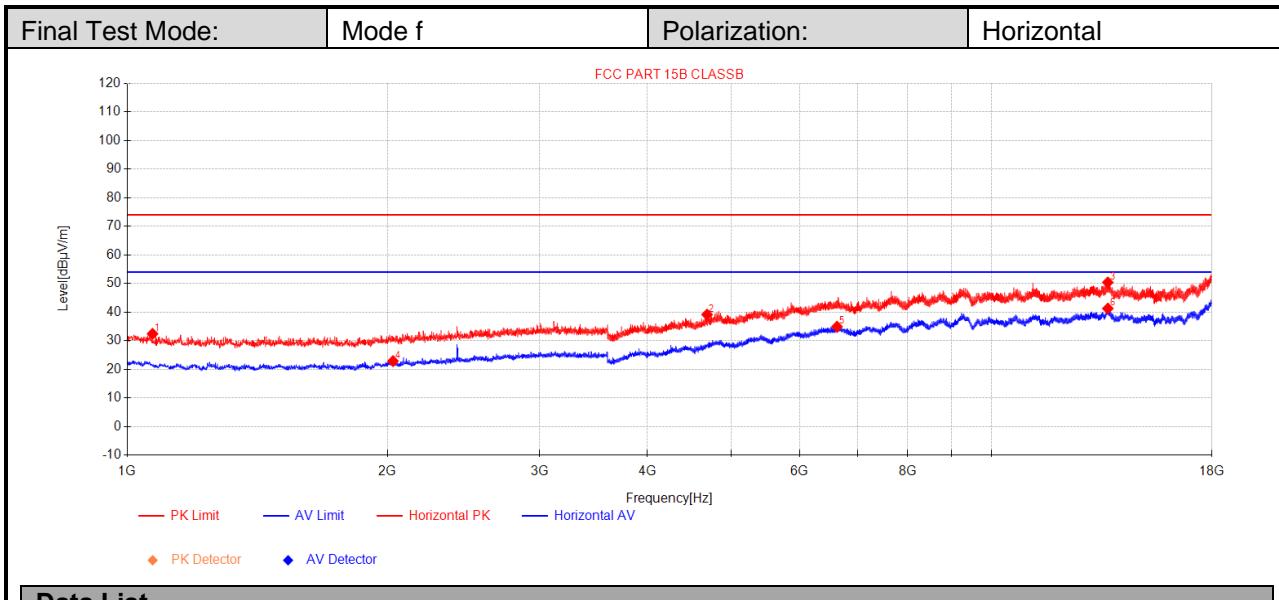
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Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1069.7	55.20	32.40	-22.80	74.00	41.60	236	24	Horizontal
2	4688.15	51.83	39.12	-12.71	74.00	34.88	251	301	Horizontal
3	13636.95	44.96	50.37	5.41	74.00	23.63	243	246	Horizontal
4	2030.2	43.92	22.86	-21.06	54.00	31.14	258	356	Horizontal
5	6627	42.36	34.88	-7.48	54.00	19.12	247	44	Horizontal
6	13637.8	35.83	41.24	5.41	54.00	12.76	239	24	Horizontal

Remark:

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



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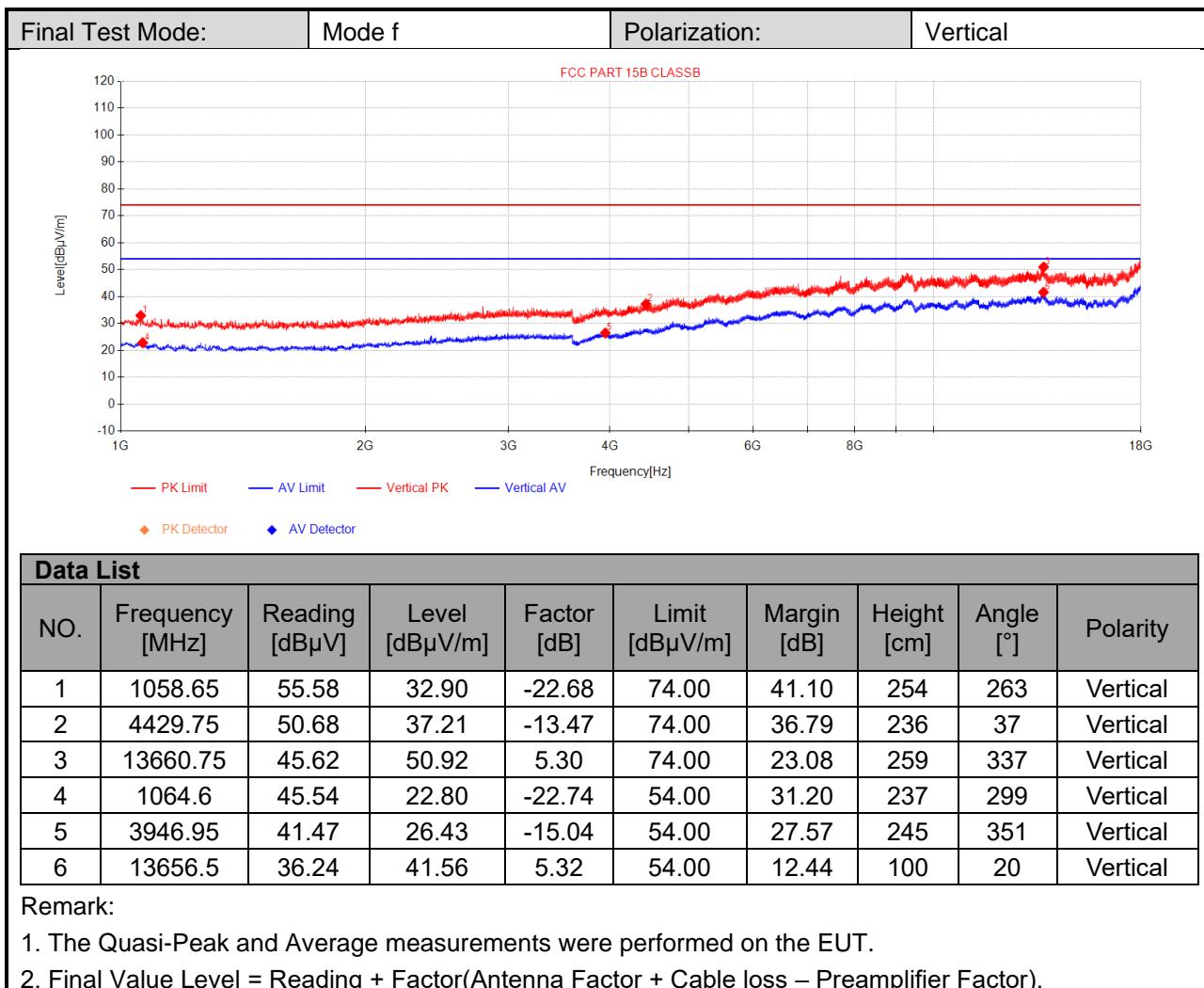
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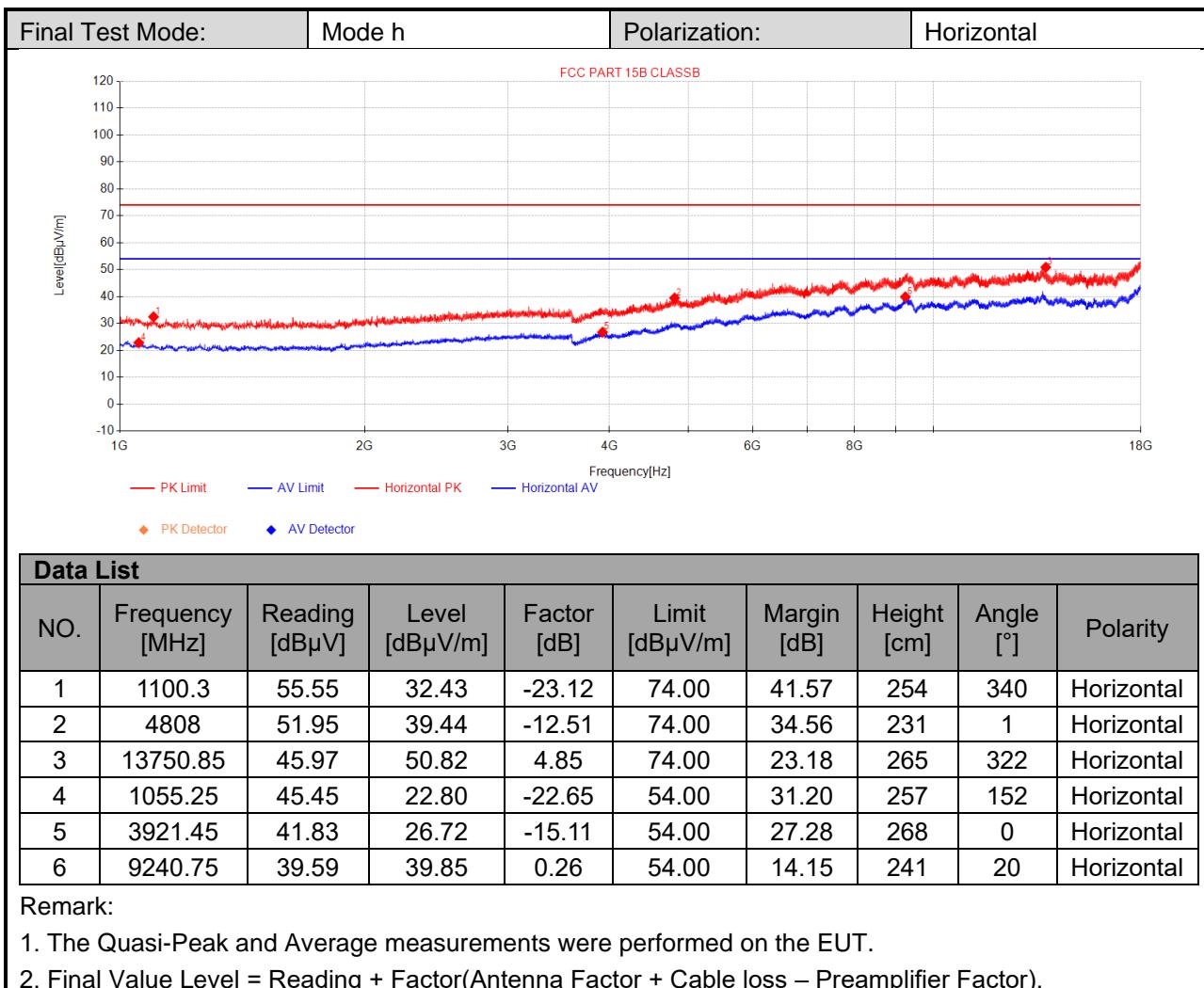
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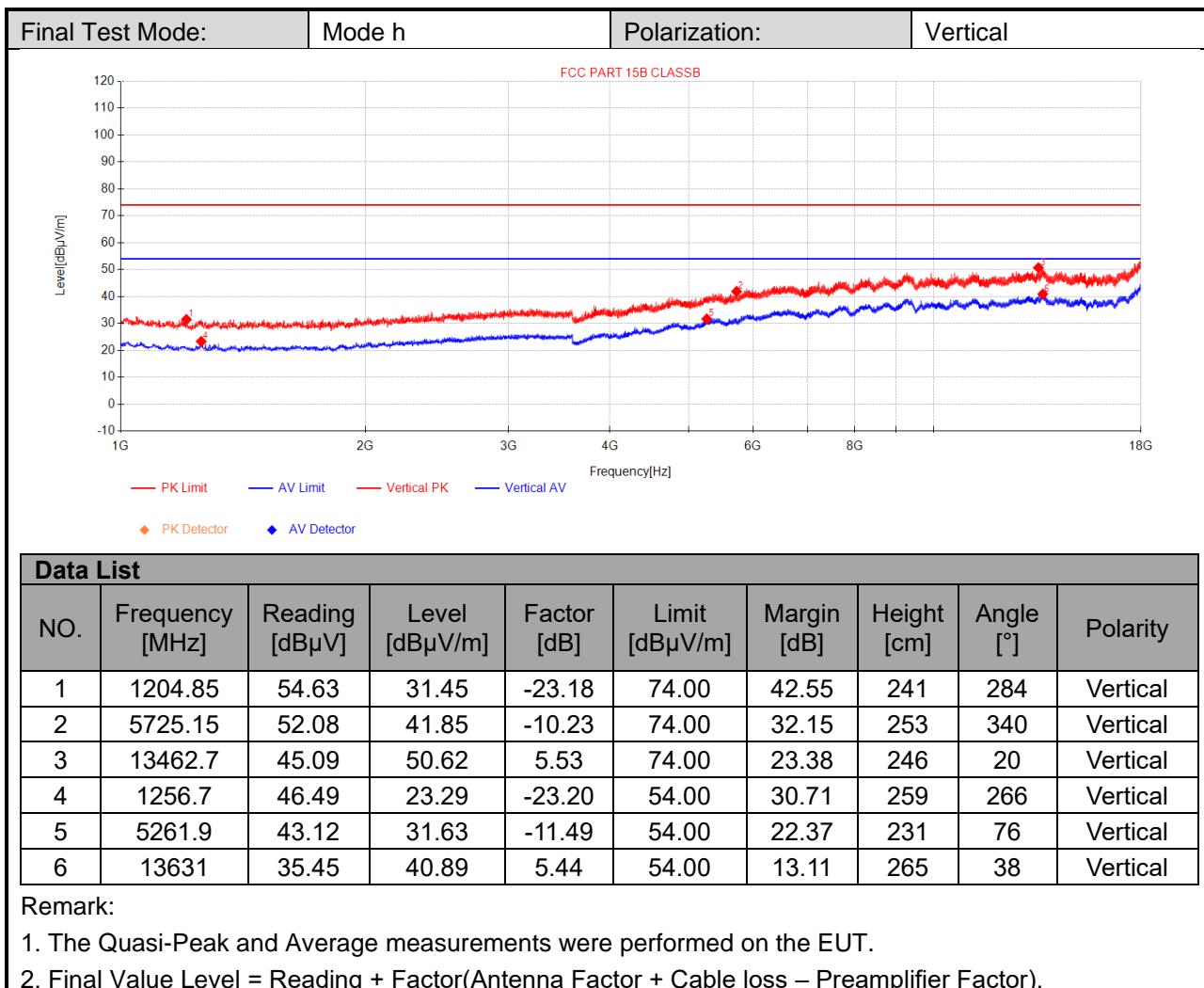
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3 Equipment List

CE Test System					
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
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/2/14	2023/2/13
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RE Test System					
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	2022/2/16	2023/2/15
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/5/28	2023/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/2/14	2023/2/13
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 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.

- End of the Report -



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