

Report No.: SUHR/2022/1001108

Rev.: 01

Page: 1 of 25

TEST REPORT

Application No.: HR/2022/10011
Applicant: HONOR Device Co., Ltd.
Address of Applicant: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer: HONOR Device Co., Ltd.
Address of Manufacturer: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
EUT Description: Smart Phone
Model No.: ANY-NX1
Trade Mark: HONOR
FCC ID: 2AYGCANY-NX1
Standards: FCC 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2022/2/10
Date of Test: 2022/2/25 to 2022/4/11
Date of Issue: 2022/4/11

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

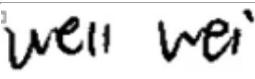
Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/4/11		Original

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



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2 Test Summary

Test Item	FCC Rules No.	Test Method	Test Result	Result
20dB Spectrum Bandwidth	15.215(c)	ANSI C63.10 2013	Clause 4.1	PASS
Frequency Stability	15.225(e)	ANSI C63.10 2013	Clause 4.2	PASS
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	ANSI C63.10 2013	Clause 4.3	PASS
Radiated Spurious Emissions	15.225(d)/15.209	ANSI C63.10 2013	Clause 4.4	PASS



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 Wireless Laboratory

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3 General Information

3.1 Details of Client

Applicant:	HONOR Device Co., Ltd.
Address of Applicant:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer:	HONOR Device Co., Ltd.
Address of Manufacturer:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

3.2 Test Location

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

3.3 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



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3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	ANY-NX1
Trade Mark:	HONOR
Hardware Version:	HN3ANYM
Software Version:	4.2.0.42(C900E42R1P3)
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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3.5 Test Environment

Environment Parameter	101kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.87
LTLV	0	3.6
LTHV	0	4.45
HTLV	35	3.6
HTHV	35	4.45

Remark:
 NV: Normal Voltage
 NT: Normal Temperature
 LT: Low Extreme Test Temperature
 HT: High Extreme Test Temperature
 LV: Low Extreme Test Voltage
 HV: High Extreme Test Voltage

3.6 Description of Support Units

Manufacturer	Description	Model
Qualcomm	Test Software	QRCT4

Remark: all above the information of table are provided by client.



4 Test results and Measurement Data

4.1 20dB Spectrum Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215(c)
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Limit:	Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.
Test Results:	Pass
The detailed test data see: Appendix	



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4.2 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.225(e)
Test Method:	ANSI C63.10: 2013 Section 6.8
Test Setup:	
Instruments Used:	Refer to section 6 for details
Limit:	The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
Test Results:	Pass
The detailed test data see: Appendix	



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4.3 Field Strength of Fundamental Emissions

Test Requirement:	47 CFR Part 15C Section 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4.7				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 10m	Field Strength (dB $\mu\text{V/m}$) at 3m
	1.705~13.110 MHz	30	29.5	48.58	69.5
	13.110~13.410 MHz	106	40.5	59.58	80.5
	13.410~13.553 MHz	334	50.5	69.58	90.5
	13.553~13.567 MHz	15,848	84.0	103.08	124.0
	13.567~13.710 MHz	334	50.5	69.58	90.5
	13.710~14.010 MHz	106	40.5	59.58	80.5
	14.010~30.000 MHz	30	29.5	48.58	69.5

Test Setup:

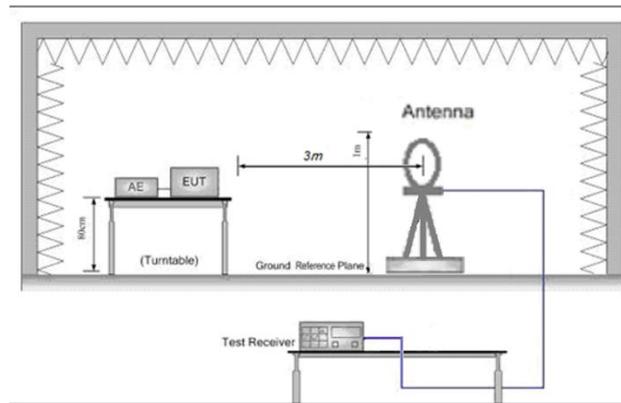


Figure 1. Below 30MHz

Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
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	<p>f. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>g. Repeat above procedures until all frequencies measured was complete.</p> <p>h. RBW set to 9kHz.</p>
Exploratory Test Mode:	<p>Transmitting with modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.4 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.225				
Test Method:	ANSI C63.10 :2013 Section 6.4&6.5				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	Above 960MHz	500	54.0	Quasi-peak	3
<p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p>					

Test Setup:

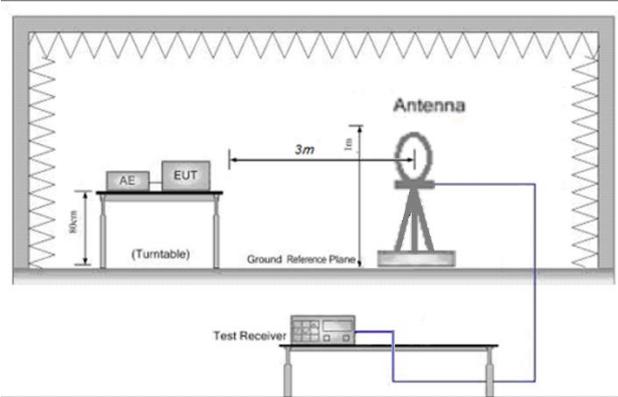


Figure 1. Below 30MHz

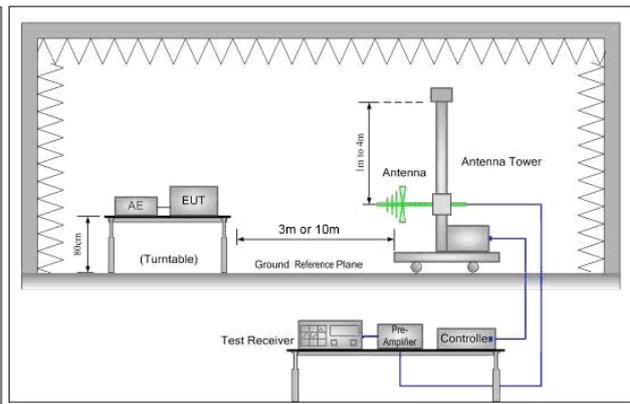


Figure 2. Above 30MHz

Test Procedure:

- i. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- j. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- k. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- l. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency



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Report No.: SUHR/2022/1001108

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	<p>of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>m. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>n. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>o. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with modulation. Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$ MHz
2	Occupied Bandwidth	$\pm 7.25 \times 10^{-8}$ MHz
3	Conduction Emission	± 2.90 dB (150kHz to 30MHz)
4	Radiated Emission	± 3.13 dB (9k -30MHz)
		± 4.8 dB (30M -1GHz)
		± 4.8 dB (1GHz to 18GHz)
		± 4.8 dB (Above 18GHz)



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2021/6/10	2022/6/9
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27

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	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	2022/2/16	2023/2/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/16	2023/2/15
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



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7 Photographs - Setup Photos

Refer to Appendix A.4 NFC Setup Photos.



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Appendix



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20dB Bandwidth



10:41:19 11.04.2022



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Frequency Stability

Declared Frequency (MHz)	13.56MHz
--------------------------	----------

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50	3.87	13.55973	0.00002	±0.01	Pass
40		13.55978	0.00002		Pass
30		13.55978	0.00002		Pass
20		13.55979	0.00002		Pass
10		13.55972	0.00002		Pass
0		13.55978	0.00002		Pass
-10		13.55977	0.00002		Pass
-20		13.55972	0.00002		Pass
-30		13.55978	0.00002		Pass
25		3.6	13.55976		0.00002
	4.45	13.55977	0.00002	Pass	



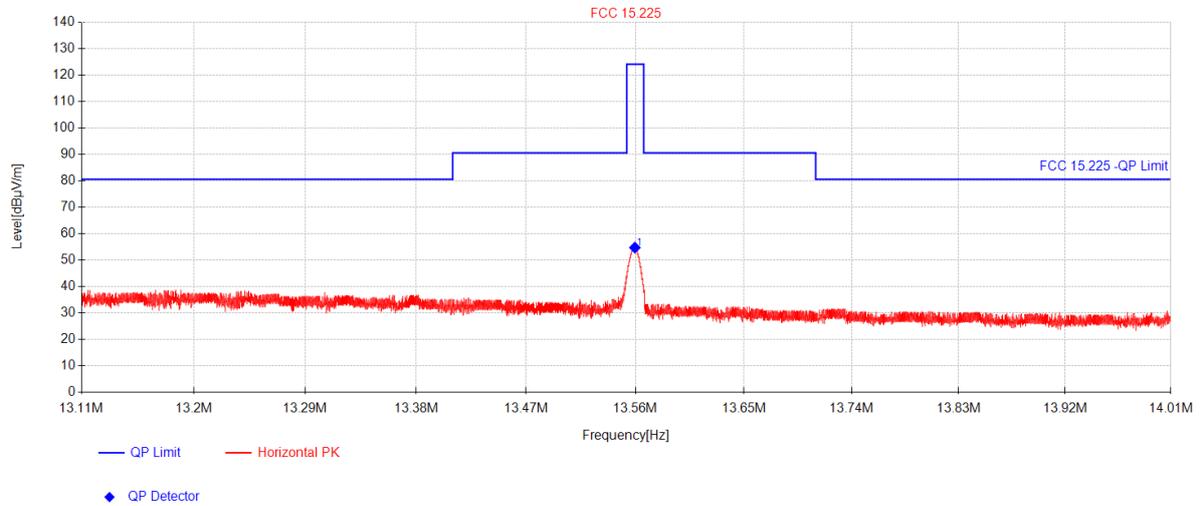
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Field Strength of Fundamental Emissions

NFC_Emission Mask

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	13.5597	34.33	20.36	54.69	124.00	69.31	100	190	Horizontal

Remark:

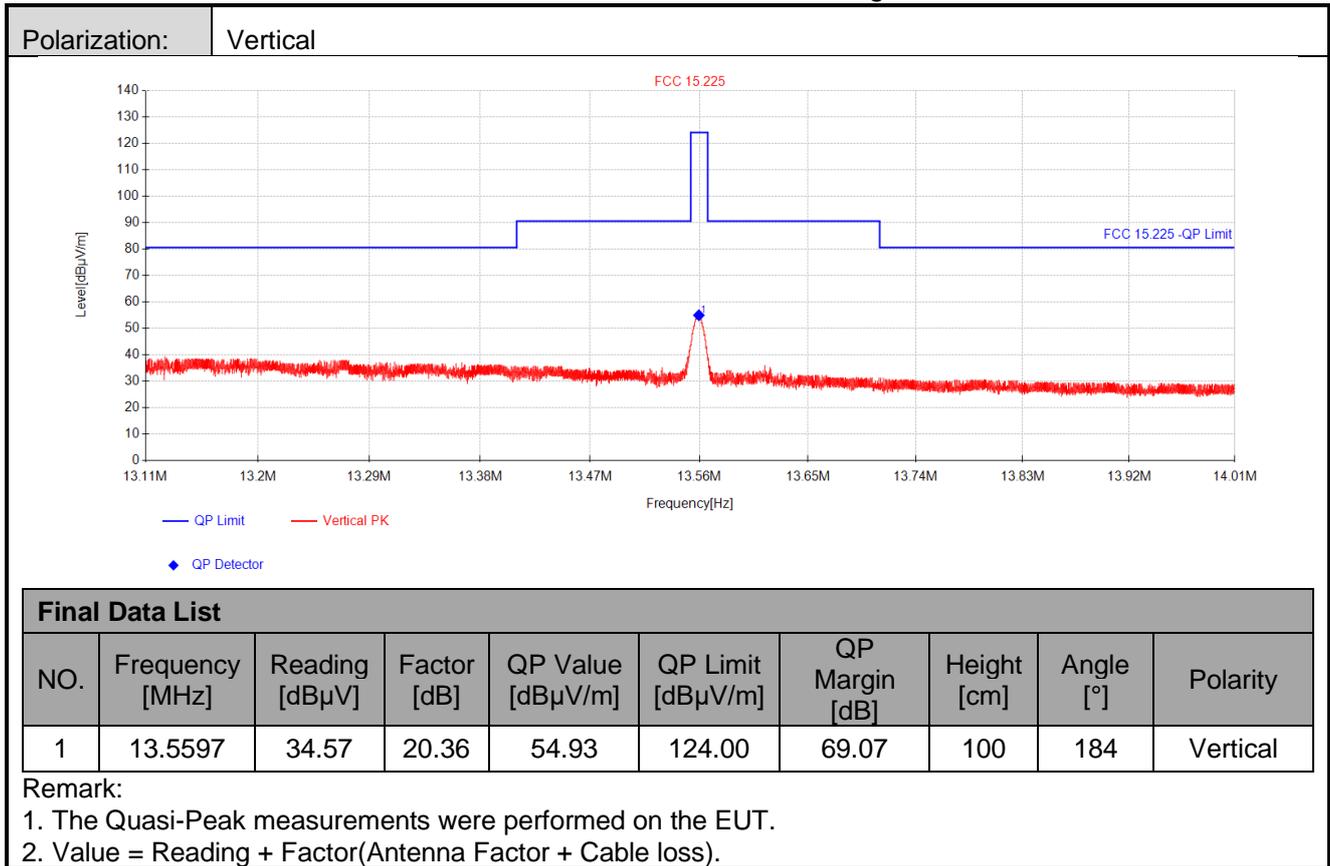
- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + Factor(Antenna Factor + Cable loss).



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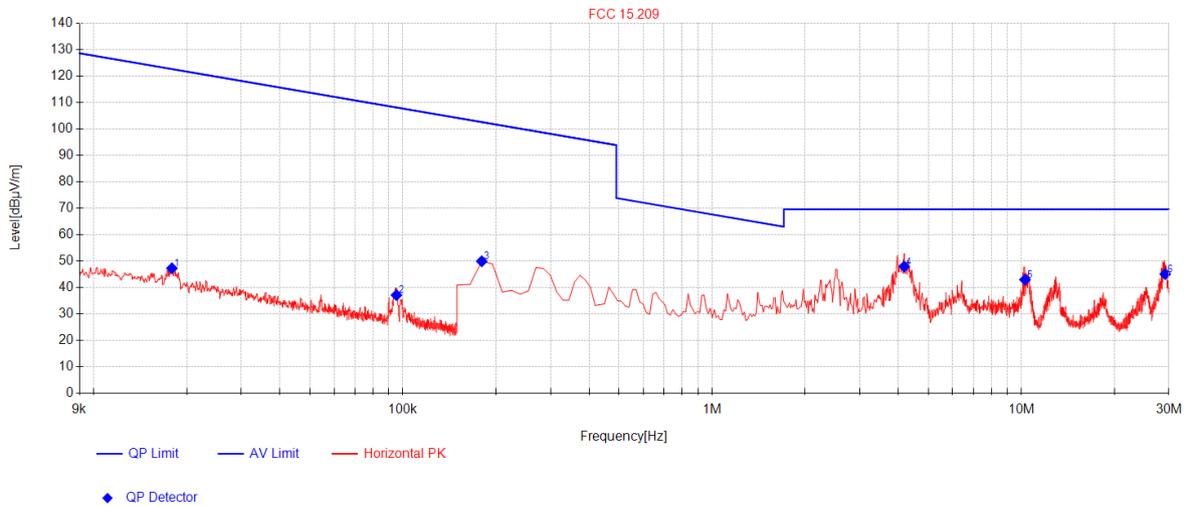
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Radiated Spurious Emissions

NFC_RSE

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	0.0179	26.98	20.27	47.25	122.54	75.29	100	178	Horizontal
2	0.0953	16.45	20.66	37.11	108.02	70.91	100	288	Horizontal
3	0.1799	29.17	20.73	49.90	102.50	52.60	100	274	Horizontal
4	4.1818	27.52	20.37	47.89	69.54	21.65	100	360	Horizontal
5	10.2742	22.62	20.35	42.97	69.54	26.57	100	351	Horizontal
6	29.1936	24.45	20.62	45.07	69.54	24.47	100	44	Horizontal

Remark:

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

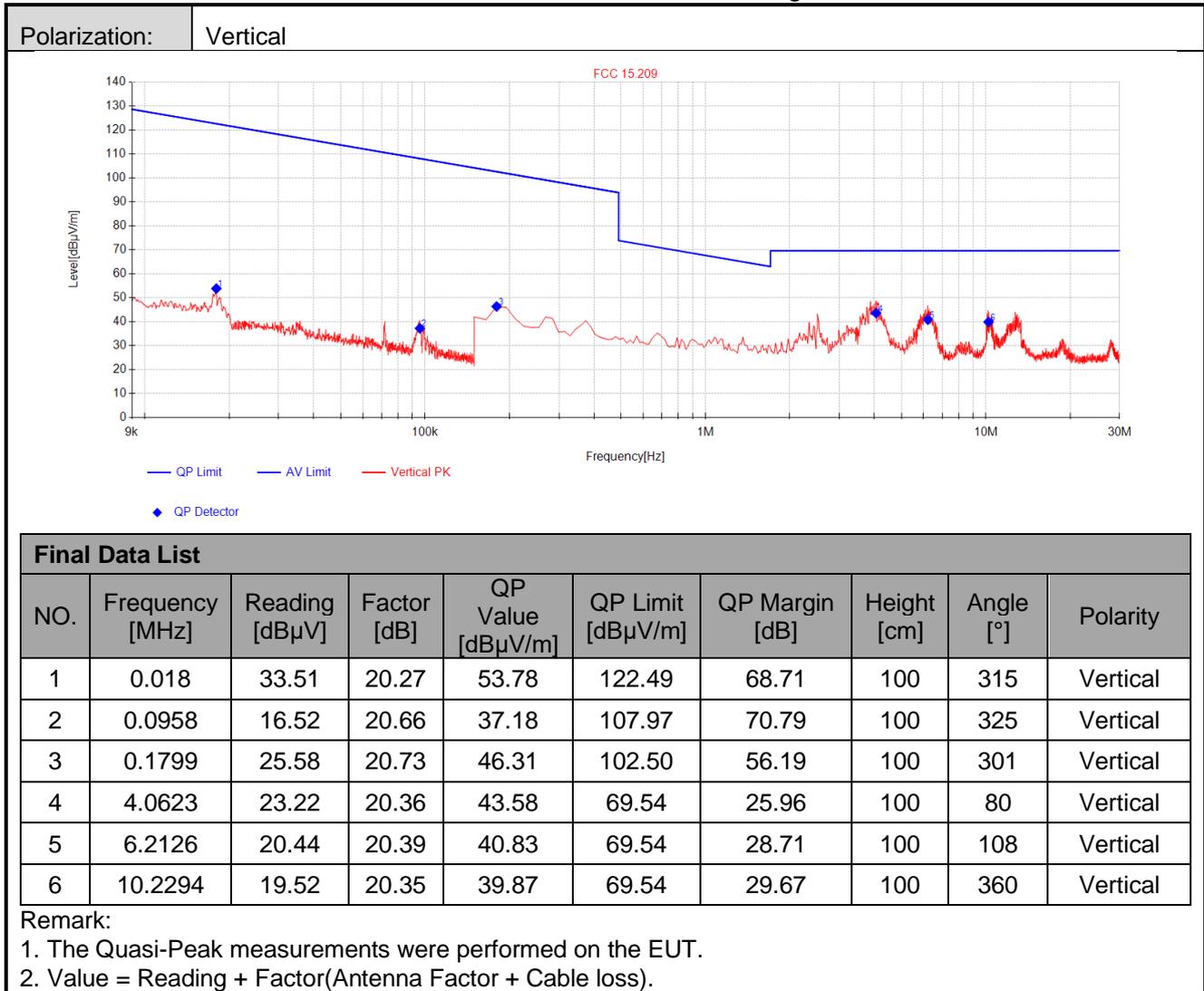


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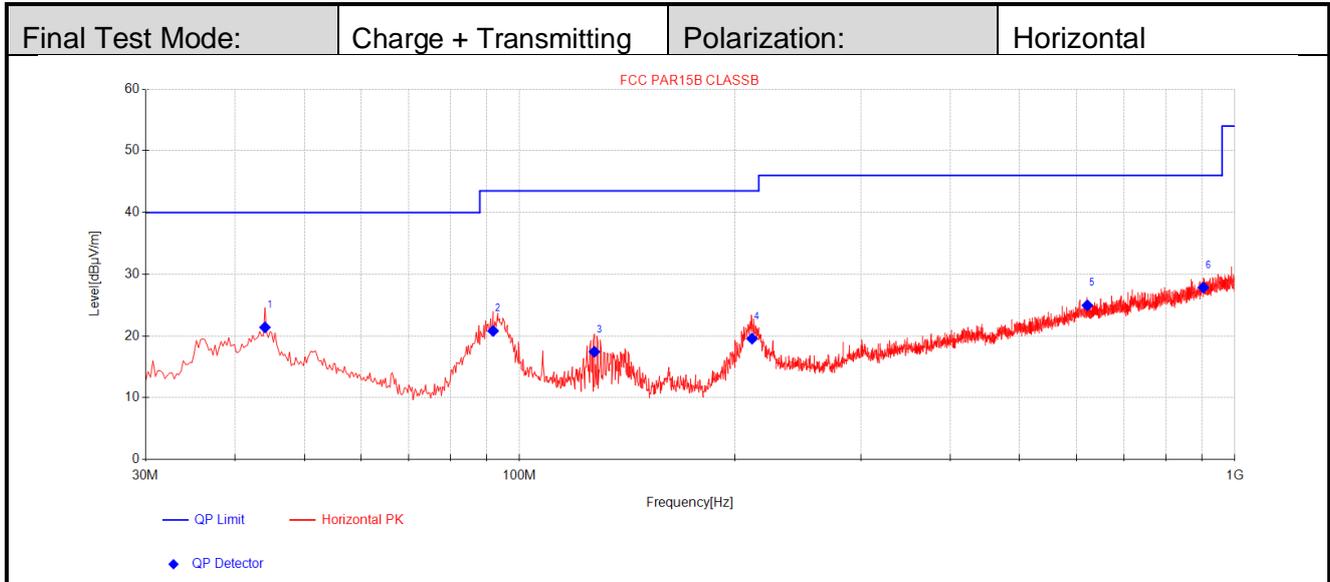
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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	36.54	-15.14	21.40	40.00	18.60	216	106	Horizontal
2	91.8375	38.69	-17.87	20.82	43.50	22.68	145	154	Horizontal
3	127.2425	36.25	-18.80	17.45	43.50	26.05	241	295	Horizontal
4	211.39	35.11	-15.53	19.58	43.50	23.92	185	209	Horizontal
5	621.9425	30.2	-5.23	24.97	46.00	21.03	156	131	Horizontal
6	903.485	29.11	-1.26	27.85	46.00	18.15	142	74	Horizontal

Remark:

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

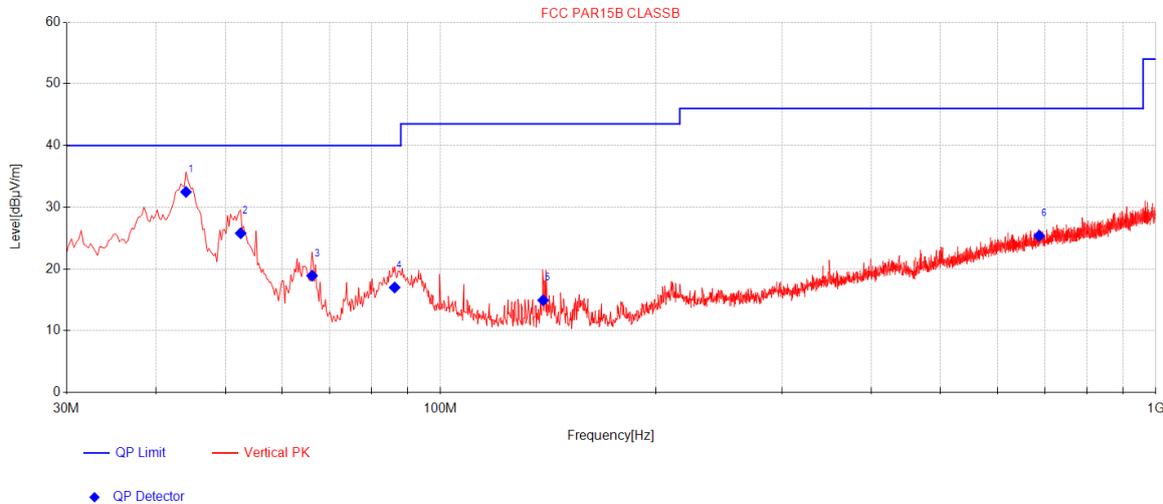


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Final Test Mode:	Charge + Transmitting	Polarization:	Vertical
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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	47.62	-15.14	32.48	40.00	7.52	261	198	Vertical
2	52.5525	40.52	-14.73	25.79	40.00	14.21	185	357	Vertical
3	66.1325	36.86	-17.95	18.91	40.00	21.09	241	217	Vertical
4	86.26	36.22	-19.21	17.01	40.00	22.99	162	149	Vertical
5	139.125	34.52	-19.58	14.94	43.50	28.56	101	11	Vertical
6	686.69	29.68	-4.31	25.37	46.00	20.63	144	17	Vertical

Remark:

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

The End



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