Report No.:
 SEWM2212000312RG07

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### **TEST REPORT**

Application No.:	SEWM2212000312RG
Applicant:	Sony Corporation
Address of Applicant:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer:	Sony Corporation
Address of Manufacturer:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS
Trade Mark:	Sony
FCC ID:	PY7-18176E
Standards:	FCC 47 CFR Part 15, Subpart C 15.225
Date of Receipt:	2022/11/30
Date of Test:	2022/12/26 to 2023/03/09 (for original report SEWM2212000308RG07) 2023/01/01 to 2023/03/09 (for new report SEWM2212000312RG07)
Date of Issue:	2023/03/09
Test Result :	PASS *

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Sun án

Panta Sun Wireless Laboratory Manager



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#### 1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023/03/09		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	Well Wei) / Reviewer



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#### 2 Test Summary

Test Item	FCC Rules No.	Test Method	Test Result	Result			
Antenna Requirement	15.203		Clause 4.1	PASS			
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.3	PASS*			
20dB Spectrum Bandwidth	15.215(c)	ANSI C63.10 2013	Clause 4.4	PASS			
Frequency Stability	15.225(e)	ANSI C63.10 2013	Clause 4.5	PASS			
Field Strength of Fundamental Emissions	15.225(a)(b)(c)	ANSI C63.10 2013	Clause 4.6	PASS*			
Radiated Spurious Emissions	Radiated Spurious Emissions 15.225(d)/15.209 ANSI C63.10 2013 Clause 4.7 PASS						
Remark: "PASS*" There is FCC ID PY7-18176E (this model) spot check data. "Pass" refers to FCC ID PY7- 51629L (parent model) data.							



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#### Remark:

This test report (Report No.: SEWM2212000312RG07 issue on 2023/03/09) is based on the original test report (Report No.: SEWM2212000308RG07 issue on 2023/03/09).

#### Introduction section:

Sony corporation, hereby declares that the test data reuse policy of FCC KDB 484596D01 v01 has been followed and take full responsibility that the test data as referenced form the parent model report FCC ID PY7-51629L represents compliance for the new FCC ID PY7-18176E.

#### Difference section:

Sony corporation, hereby declares FCC ID PY7-18176E(this model) is the variant from FCC ID PY7-51629L(parent model). They have the same dimension and share the same PCB layout, antennas and components in WLAN and Bluetooth, Though both devices use different names for the NFC chipset, this difference lies in the payment manager application software installed on the secure microcomputer, and there is also no difference in electrical and RF performance for NFC.

#### Reference detail section:

Therefore in this report AC Power Line Conducted Emission, Field Strength of Fundamental Emissions and Radiated Spurious Emissions were performed based on the worst case of the original report with report number SEWM2212000308RG07 issue on 2023/03/09 and other test data in this report are based on the previous report with report number SEWM2212000308RG07 issue on 2023/03/09.

Rule part	Equipment class	Reference FCC ID	Type Grant /permissive Change	Reference Report	Variant model FCC ID	Variant model Report
15C	DXX	PY7-51629L	Original Grant	SEWM2212000 308RG07	PY7-18176E	SEWM2212000 312RG07



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Summary of the Spot check:

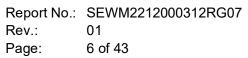
AC Power Line Conducted Emission test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results similar to the original FCC ID. All tests meet FCC technical limits. Detail sport check test result can be found in the variant model report.

Test Item	PY7-18176E Worst Result	PY7-51629L Worst Result	Difference(dB)
AC Power Line Conducted Emission	36.54	40.45	-3.91
Field Strength of Fundamental Emissions	49.23	54.04	-4.81
Radiated Spurious Emissions	27.61	29.39	-1.79



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Sony Corporation		
Address of Applicant:	ant: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan		
Manufacturer: Sony Corporation			
Address of Manufacturer: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan			

#### 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, Su Area, China (Jiangsu) Pilot Free Trade Zone			
Post code: 215000			
Test engineer:	Ives Cheng, 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:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS			
Trade Mark:	Sony			
Hardware Version:	A			
Software Version:	0.287			
SN: HQ62B2030D HQ62B20A2C				
Operation Frequency:	: 13.56MHz			
Modulation Type:	ASK			
	Type A, B, F and V			
NFC Type:	Remark: the EUT has been pre-scanned in NFC Type A, B, F and V. the worst type(Type A) was recorded in this report if no others remark in the test items.			
Antenna Type:	Loop Antenna			
Remark:				
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#### 3.5 Test Environment

Environment Parameter		101.0 kPa Selected Values During Tests		
Relative Humidity		44-46 % RH Ambient		
Value		Temperature(°C)	Voltage(V)	
NTNV		22~23	3.89	
LTLV		-20	3.40	
LTHV		-20	4.48	
HTLV		50	3.40	
HTHV		50	4.48	
Remark:				
NV: Normal Voltage LV: Low		v Extreme Test Voltage	HV: High Extreme Test Voltage	
NT: Normal Temperature LT: Low		Extreme Test Temperature	HT: High Extreme Test Temperature	

#### 3.6 Description of Support Units

The EUT has been tested as an independent unit.



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#### 4 Test results and Measurement Data

#### 4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna of the EUT are permanently attached.

#### 4.2 Worst-case configuration and mode

The fundamental of the EUT was investigated under three orthogonal orientations X, Y, and Z. The X orientation was determined to be the worst-case orientation.

In addition, Type A, B, F, and V at each supported data rate and with/without a tag were investigated to determine the worst case based on the highest power and spurious emissions. Type A, 106Kbps without tag was determined to be the worst case and therefore Type A, 106Kbps without tag was selected for all final tests.

Although these tests were performed ther than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site prduces results that correlate with the ones of tests made in an ope field based on KDB 414788.



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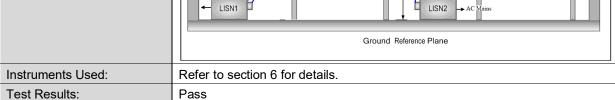
#### 4.3 AC Power Line Conducted Emissions

SC

Test Requirement:	47 CFR Part 15C Sectio	n 15.207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range(MHz)	Limit (d	BuV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the log	arithm of the frequency.	
Test Procedure:	<ul> <li>room.</li> <li>2) The EUT was connellingedance Stabilization impedance. The processingle connected to a second plane in the same of multiple socket outlet single LISN provided</li> <li>3) The tabletop EUT was ground reference plane placed on the horizor</li> <li>4) The test was perform the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of the the closest points of and associated equip</li> <li>5) In order to find the mand all of the interfate</li> </ul>	listurbance voltage test was ected to AC power source to tion Network) which provides ower cables of all other un ad LISN 2, which was bonded way as the LISN 1 for the t strip was used to connect m the rating of the LISN was no as placed upon a non-metall ne. And for floor-standing arr natal ground reference plane. ed with a vertical ground refe 4 m from the vertical ground rence plane was bonded to a LISN 1 was placed 0.8 m for the LISN 1 and the EUT. All bonded to a ground refe e ground reference plane. The the LISN 1 and the EUT. All oment was at least 0.8 m from taximum emission, the relative ce cables must be changed a on conducted measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + $5\Omega$ linear units of the EUT were to the ground reference unit being measured. A nultiple power cables to a ot exceeded. ic table 0.8m above the rangement, the EUT was erence plane. The rear of the horizontal ground rom the boundary of the erence plane for LISNs is distance was between II other units of the EUT in the LISN 2. e positions of equipment



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Shielding Room	AE minor	Test Receiver	
	Solution of the second se	SN2 + AC Mains	





Test Setup:

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#### Measurement Data

8.5425

9.9870

13.5645

5

6

7

Remark:

10.66

10.63

10.55

3. Margin = Limit[dBµV] – Value[dBµV]

20.72

27.13

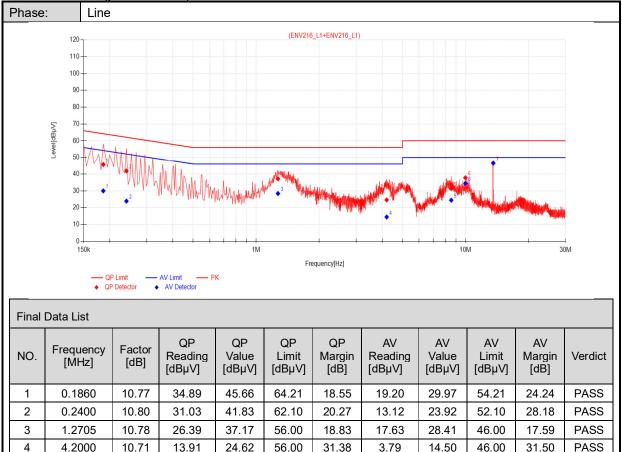
36.01

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

#### For PY7-51629L(parent model) data:





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60.00

60.00

60.00

28.62

22.24

13.44

13.79

23.85

35.87

31.38

37.76

46.56

1. The following Quasi-Peak and Average measurements were performed on the EUT:

t (86-512) 62992980 www.sgsgroup.com.cn sgs.china@sgs.com t (86-512) 62992980

24.45

34.48

46.42

50.00

50.00

50.00

Member of the SGS Group (SGS SA)

25.55

15.52

3.58

PASS

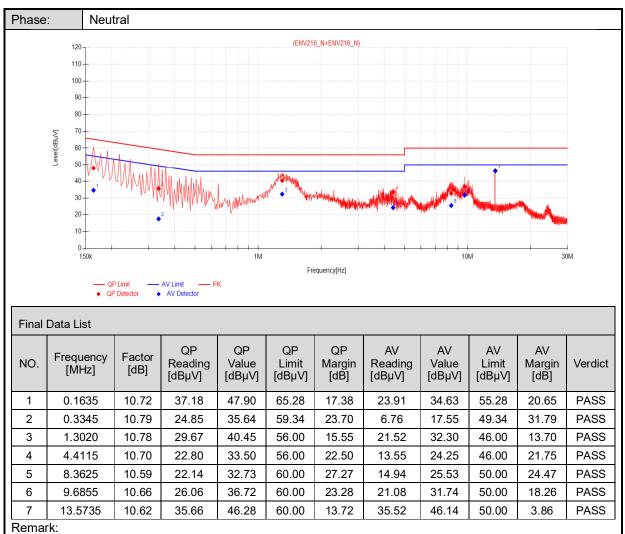
PASS

PASS

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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

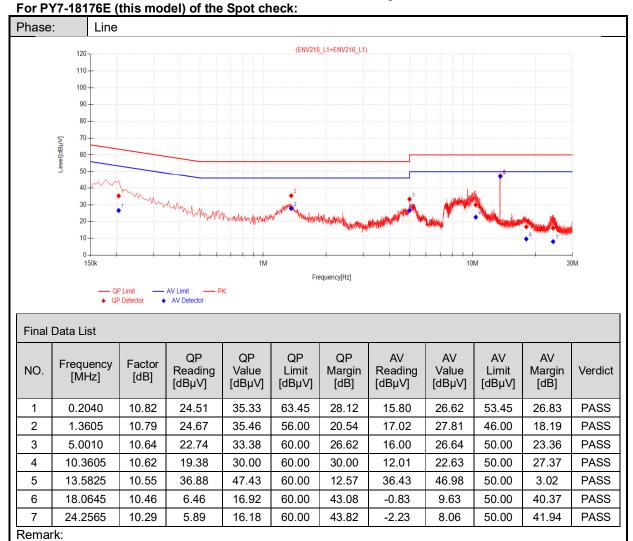
3. Margin = Limit[dBµV] – Value[dBµV]



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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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								Report N Rev.: Page:	01	VM2212 of 43	2000312	RG07
Phase	<b>:</b> :	Neut	tral									
		120				(ENV21	6_N+ENV216_N)					1
		110-										
		100-										
		90-										
		80-										
	ž	70-										
	Level[dBµV]	60-										_
	Le	50-								<b>₽</b> <sup>₿</sup>		-
		40	man	A		WHICHMAN		MA.	أفتار فمقفر	N.		
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		10										
		10 0 150k							10	M	3	H DM
Final	Data	0 150k • QF		AV Limit P AV Detector		Fre	equency[Hz]		10	M	3	4 DM
Final NO.	Fre	0 150k • QF				Fre QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	
	Fre	a List	Potector	AV Detector QP Reading	k QP Value	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	
NO.	Fre I	a List equency [MHz]	Petector Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
NO. 1	Fre I C	a List equency [MHz]	Factor [dB] 10.71	AV Detector QP Reading [dBµV] 32.40	QP Value [dBμV] 43.11	QP Limit [dBµV] 64.63	QP Margin [dB] 21.52	Reading [dBµV] 28.55	AV Value [dBµV] 39.26	AV Limit [dBµV] 54.63	AV Margin [dB] 15.37	Verdict
NO. 1 2	Fre l C 1	a List equency [MHz] 0.1770 1.2705	Factor [dB] 10.71 10.78	AV Detector QP Reading [dBµV] 32.40 25.76	<ul> <li>QP</li> <li>Value</li> <li>[dBμV]</li> <li>43.11</li> <li>36.54</li> </ul>	QP Limit [dBµV] 64.63 56.00	QP Margin [dB] 21.52 19.46	Reading [dBµV] 28.55 17.46	ΑV Value [dBμV] 39.26 28.24	ΑV Limit [dBμV] 54.63 46.00	AV Margin [dB] 15.37 17.76	Verdict PASS PASS
NO. 1 2 3	Fre	a List equency [MHz] 0.1770 1.2705 5.0100	Factor [dB] 10.71 10.78 10.64	AV Detector QP Reading [dBµV] 32.40 25.76 22.67	<ul> <li>QP</li> <li>Value</li> <li>[dBμV]</li> <li>43.11</li> <li>36.54</li> <li>33.31</li> </ul>	QP Limit [dBµV] 64.63 56.00 60.00	QP Margin [dB] 21.52 19.46 26.69	Reading           [dBµV]           28.55           17.46           15.86	AV Value [dBµV] 39.26 28.24 26.50	AV Limit [dBµV] 54.63 46.00 50.00	AV Margin [dB] 15.37 17.76 23.50	Verdict PASS PASS PASS
NO. 1 2 3 4	Fre	a List equency [MHz] 0.1770 1.2705 5.0100 0.3380	Factor [dB] 10.71 10.78 10.64 10.66	AV Detector QP Reading [dBµV] 32.40 25.76 22.67 19.31	<ul> <li>QP Value [dBμV]</li> <li>43.11</li> <li>36.54</li> <li>33.31</li> <li>29.97</li> </ul>	QP Limit [dBµV] 64.63 56.00 60.00 60.00	QP Margin [dB] 21.52 19.46 26.69 30.03	Reading [dBµV] 28.55 17.46 15.86 11.85	AV Value [dBμV] 39.26 28.24 26.50 22.51	AV Limit [dBμV] 54.63 46.00 50.00 50.00	AV Margin [dB] 15.37 17.76 23.50 27.49	Verdict PASS PASS PASS PASS

2. Value =Reading[dB $\mu$ V] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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Test Requirement:	47 CFR Part 15C Section 15.215(c)
Test Method:	ANSI C63.10: 2013 Section 6.9.3
Test Setup:	PC FC FC FC FC FC FC FC FC FC F
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: A	ppendix

#### 4.4 20dB Spectrum Bandwidth

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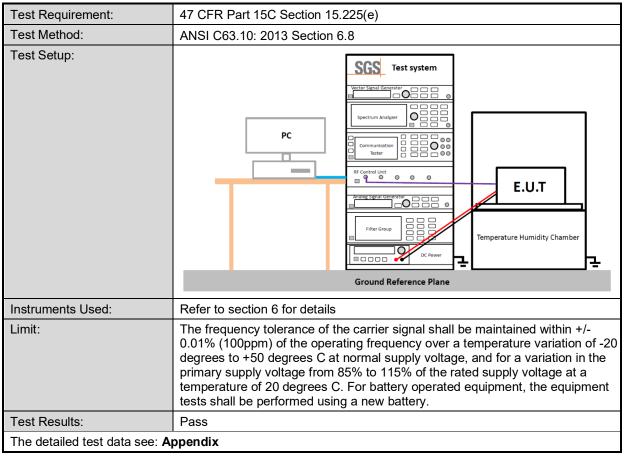
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#### 4.5 Frequency Stability





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#### 4.6 Field Strength of Fundamental Emissions

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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-Anecho	ic Chamber)			
Limit:	Frequency	Field Strength (µV/m) at 30m	Field Strength (dBµV/m) at 30m	Field Strength (dBµV/m) at 10m	Field Strength (dBµV/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	
		Anten 3m 5 0 Ground Reference Plane, MR Receiver Mr Receiver Mr E 1. Below 30MH				
Test Procedure:	<ul> <li>a. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. 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.</li> <li>c. 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.</li> <li>d. 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.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ul>					





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	, and the second s
	<ul><li>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.</li><li>g. Repeat above procedures until all frequencies measured was complete.</li><li>h. RBW set to 9kHz.</li></ul>
Exploratory Test Mode:	Transmitting with modulation. Charge + Transmitting mode.
Final Test Mode:	<b>Transmitting with modulation.</b> 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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#### 4.7 Radiated Spurious Emissions

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		-					
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-Anecho	ic 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		
	employing a CISPR qua 110-490kHz and above based on measurements any emission shall not e by more than 20 dB und	1000 MHz. Radiates employing an ave xceed the maximu	ed emission erage detect m permitted	limits in these to or, the peak fie average limits	three bands are Id strength of		
Test Setup:							
Test Rec	eiver		Test Recei	ver Pre- Co	ntrolles		
Fig	ure 1. Below 30MHz		Figure 2.	Above 30MHz			
<ul> <li>Test Procedure: <ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> </ol> </li> </ul>							
	I. For each suspected				t case and then		



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	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.
	<ul> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ul>
	<ul><li>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.</li><li>o. Repeat above procedures until all frequencies measured was complete.</li></ul>
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	±1.0 %
2	Occupied Bandwidth	±1.0 %
3	Conduction Emission	± 2.90dB (150kHz to 30MHz)
4	Radiated Emission	± 3.13dB (9k -30MHz)
4		± 4.88dB (30M -1GHz)

Remark:

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The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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#### 6 Equipment List

RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
meter	WingOad	IIII010	0001-01-01-07	2023/02/06	2024/02/05		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Wideband				2022/02/14	2023/02/13		
Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05		
DC Power				2022/02/15	2023/02/14		
Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22		
MXG Vector	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		
signal genitor	RETSIGNT	NJ 102B	3000-01-30-01	2023/02/06	2024/02/05		
Temperature		011.040		2022/02/15	2023/02/14		
Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05		



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		CE Test Sy	/stem		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
restreceiver	KUNDE&SCHWARZ	ESRI	30001-01-10-01	2023/02/08	2024/02/07
Temperature and	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
humidity meter	MilligGao		3000-01-01-00	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial fietwork	ROHDEQSCHWARE	LINVZIO	3000-01-19-01	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
	NOTIDE&30HWARZ		30001-01-19-02	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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		RSE Test S	System		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature	MinarQue	TUADAD		2022/02/16	2023/02/15
and humidity meter	MingGao	TH101B	SUWI-01-01-15	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Test receiver	RUNDE&SCHWARZ	ESRI	50001-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	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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Note:

Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



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#### **Frequency tolerance**

Declared Fre	equency (MHz)			13.56	MHz	
			Startup			
Temperature (°C)	Voltage(VDC)		asurement uency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		1:	3.55991	0.0007		Pass
40		1:	3.55998	0.0001		Pass
30		1:	3.55996	0.0003		Pass
20	3.89	1:	3.55998	0.0001		Pass
10	3.69	1:	3.55998	0.0001	±0.01	Pass
0		1:	3.55997	0.0002	10.01	Pass
-10		1:	3.55995	0.0004		Pass
-20		1:	3.55996	0.0003		Pass
20	4.48	1:	3.55997	0.0002		Pass
20	3.40	1:	3.55996	0.0003		Pass

Declared Fre	equency (MHz)		13.56N	ЛНz	
		2min:	6		
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		13.55998	0.0001		Pass
40		13.55996	0.0003		Pass
30		13.55991	0.0007		Pass
20	2.00	13.55997	0.0002		Pass
10	3.89	13.55995	0.0004	±0.01	Pass
0		13.55997	0.0002	±0.01	Pass
-10		13.55998	0.0001		Pass
-20		13.55996	0.0003		Pass
20	4.48	13.55997	0.0002		Pass
20	3.40	13.55998	0.0001		Pass



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Declared Fre	equency (MHz)		13.56	MHz	
		5mins			
Temperature (°C)	Voltage(VDC)	 /leasurement equency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		13.55995	0.0004		Pass
40		13.55998	0.0001		Pass
30		13.55995	0.0004		Pass
20	2.90	13.55998	0.0001		Pass
10	3.89	13.55997	0.0002	±0.01	Pass
0		13.55997	0.0002	±0.01	Pass
-10		13.55995	0.0004		Pass
-20		13.55996	0.0003		Pass
20	4.48	13.55995	0.0004		Pass
20	3.40	13.55996	0.0003		Pass

Declared Fre	equency (MHz)			13.56	ЛНz	
		10	0mins			
Temperature (°C)	Voltage(VDC)	Measureme Frequency(M		Frequency Tolerance (%)	Limit (%)	Result
50		13.55994	1	0.0004		Pass
40		13.55997	7	0.0002		Pass
30		13.55998	3	0.0001		Pass
20	2.00	13.55997	7	0.0002		Pass
10	3.89	13.55998	3	0.0001	±0.01	Pass
0		13.55997	7	0.0002	±0.01	Pass
-10		13.55995	5	0.0004		Pass
-20		13.55996	6	0.0003		Pass
20	4.48	13.55995	5	0.0004		Pass
20	3.40	13.55996	6	0.0003		Pass



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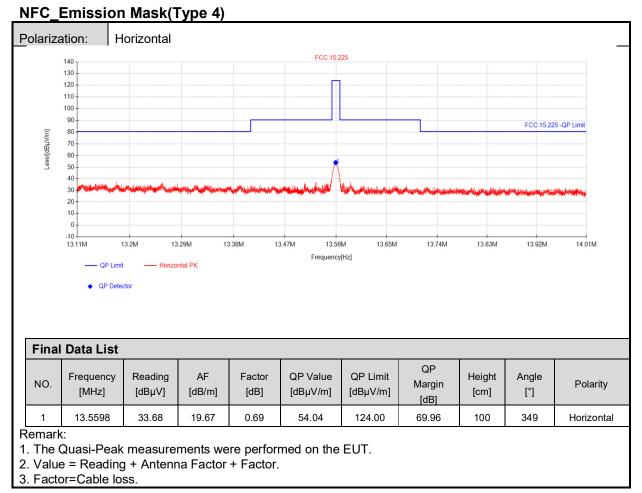
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#### **Field Strength of Fundamental Emissions**

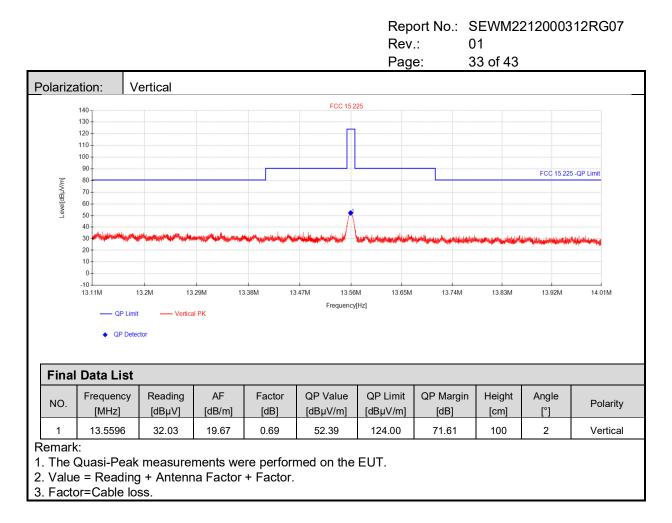
For PY7-51629L(parent model) data:





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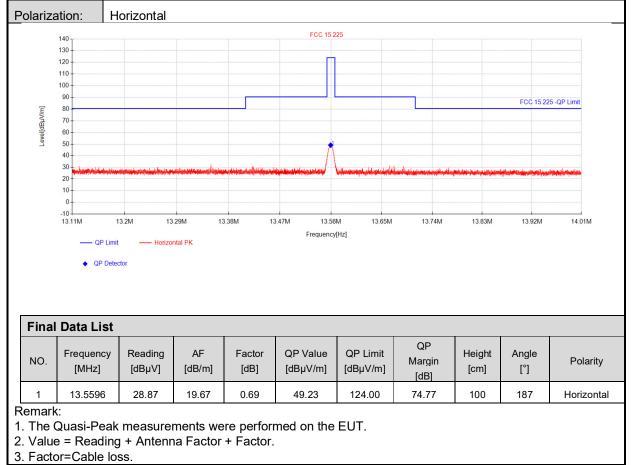
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#### Test for spot check:

For PY7-18176E (this model)data:

#### **Field Strength of Fundamental Emissions**

#### NFC\_Emission Mask(Type 4)

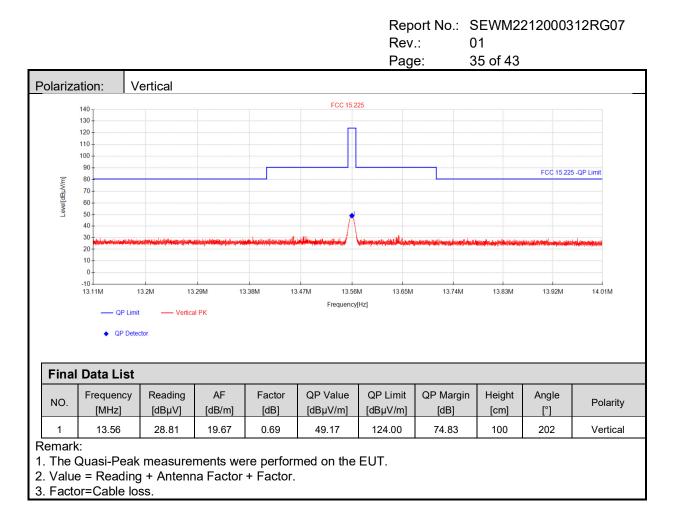




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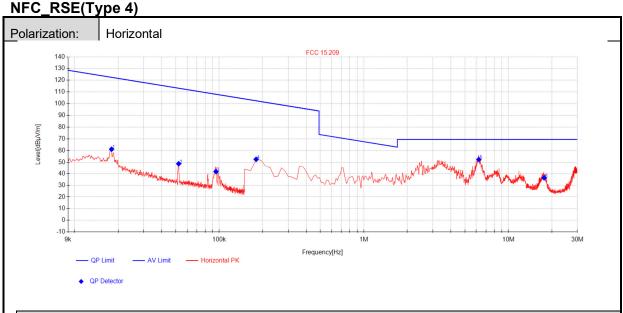
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#### **Radiated Spurious Emissions**

For PY7-51629L(parent model) data:



l Data List									
Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
0.018	40.96	19.84	0.43	61.23	122.49	61.26	100	124	Horizontal
0.0524	28.57	19.81	0.43	48.81	113.21	64.40	100	346	Horizontal
0.0949	21.03	20.22	0.43	41.69	108.05	66.36	100	19	Horizontal
0.1799	31.84	20.30	0.43	52.57	102.50	49.93	100	1	Horizontal
6.2424	32.01	19.84	0.55	52.40	69.54	17.14	100	3	Horizontal
17.6807	15.65	19.87	0.77	36.28	69.54	33.26	100	139	Horizontal
	Frequency [MHz] 0.018 0.0524 0.0949 0.1799 6.2424	Frequency [MHz]         Reading [dBμV]           0.018         40.96           0.0524         28.57           0.0949         21.03           0.1799         31.84           6.2424         32.01	Frequency [MHz]         Reading [dBµV]         AF [dB/m]           0.018         40.96         19.84           0.0524         28.57         19.81           0.0949         21.03         20.22           0.1799         31.84         20.30           6.2424         32.01         19.84	Frequency [MHz]         Reading [dBμV]         AF [dB/m]         Factor [dB]           0.018         40.96         19.84         0.43           0.0524         28.57         19.81         0.43           0.0949         21.03         20.22         0.43           0.1799         31.84         20.30         0.43           6.2424         32.01         19.84         0.55	Frequency [MHz]         Reading [dBμV]         AF [dB/m]         Factor [dB]         QP Value [dBμV/m]           0.018         40.96         19.84         0.43         61.23           0.0524         28.57         19.81         0.43         48.81           0.0949         21.03         20.22         0.43         41.69           0.1799         31.84         20.30         0.43         52.57           6.2424         32.01         19.84         0.55         52.40	Frequency [MHz]         Reading [dBμV]         AF [dB/m]         Factor [dB]         QP Value [dBμV/m]         QP Limit [dBμV/m]           0.018         40.96         19.84         0.43         61.23         122.49           0.0524         28.57         19.81         0.43         48.81         113.21           0.0949         21.03         20.22         0.43         41.69         108.05           0.1799         31.84         20.30         0.43         52.57         102.50           6.2424         32.01         19.84         0.55         52.40         69.54	Frequency [MHz]         Reading [dBμV]         AF [dB/m]         Factor [dB]         QP Value [dBμV/m]         QP Limit [dBμV/m]         QP Margin [dB]           0.018         40.96         19.84         0.43         61.23         122.49         61.26           0.0524         28.57         19.81         0.43         48.81         113.21         64.40           0.0949         21.03         20.22         0.43         41.69         108.05         66.36           0.1799         31.84         20.30         0.43         52.57         102.50         49.93           6.2424         32.01         19.84         0.55         52.40         69.54         17.14	Frequency [MHz]         Reading [dBμV]         AF [dB/m]         Factor [dB]         QP Value [dB]         QP Limit [dBμV/m]         QP Margin [dB]         Height [cm]           0.018         40.96         19.84         0.43         61.23         122.49         61.26         100           0.0524         28.57         19.81         0.43         48.81         113.21         64.40         100           0.0949         21.03         20.22         0.43         41.69         108.05         66.36         100           0.1799         31.84         20.30         0.43         52.57         102.50         49.93         100           6.2424         32.01         19.84         0.55         52.40         69.54         17.14         100	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

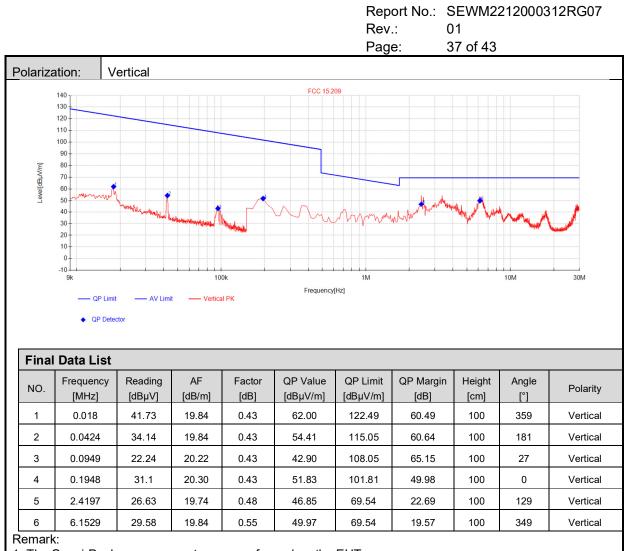
2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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NO.	QP Limit     QP Detect      Data List      Frequency     [MHz]	Reading [dBµV]	AF [dB/m]	[dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin [dB]	[cm]	[°]	Horizon
NO. 1	QP Limit     QP Deter      QP de	Reading [dBµV] 32.24	AF [dB/m] 13.85	[dB] -28.06	QP Value [dBµV/m] 18.03	QP Limit [dBµV/m] 40.00	Margin [dB] 21.97	[cm] 102	[°] 283	Horizon
NO. 1 2	QP Limit     QP Detect     QP Detect     QP Detect     Trequency     [MHz]     42.61     99.84	tor Reading [dBμV] 32.24 39.62	AF [dB/m] 13.85 10.14	[dB] -28.06 -27.36	QP Value [dBµV/m] 18.03 22.39	QP Limit [dBµV/m] 40.00 43.50	Margin [dB] 21.97 21.11	[cm] 102 285	[°] 283 62	Horizon Horizon Horizon
NO. 1 2 3	QP Limit • QP Deter Data List Frequency [MHz] 42.61 99.84 163.375	Reading [dBµV] 32.24 39.62 39.86	AF [dB/m] 13.85 10.14 14.23	[dB] -28.06 -27.36 -26.67	QP Value [dBµV/m] 18.03 22.39 27.43	QP Limit [dBµV/m] 40.00 43.50 43.50	Margin [dB] 21.97 21.11 16.07	[cm] 102 285 263	[°] 283 62 41	Polarity Horizoni Horizoni Horizoni Horizoni

#### NFC RE(Type 4)

3. Factor=Cable loss – Preamplifier Factor.



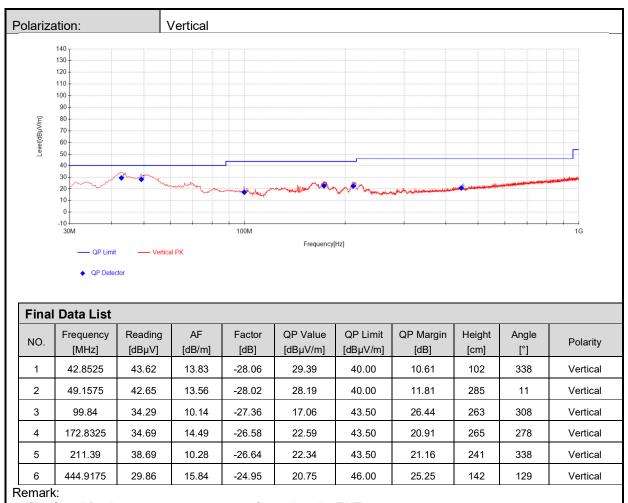
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1. The Quasi-Peak measurements were performed on the EUT.

2. Final Value Level = Reading + Antenna Factor + Factor.

3. Factor=Cable loss – Preamplifier Factor.



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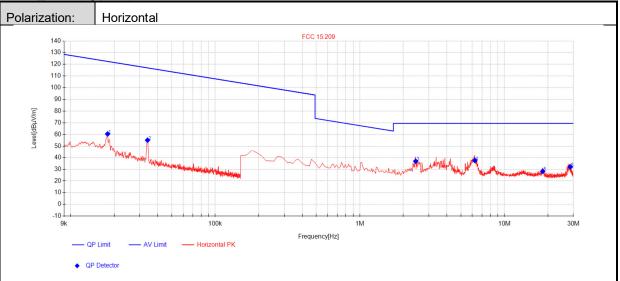
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#### Test for spot check:

For PY7-18176E (this model)data:

#### **Radiated Spurious Emissions**

#### NFC\_RSE(Type 4)



NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.018	40.23	19.84	0.43	60.50	122.49	61.99	100	57	Horizontal
2	0.034	34.87	19.88	0.43	55.18	116.97	61.79	100	163	Horizontal
3	2.4347	16.58	19.74	0.48	36.80	69.54	32.74	100	53	Horizontal
4	6.2424	17.02	19.84	0.55	37.41	69.54	32.13	100	322	Horizontal
5	18.4124	7.62	19.83	0.78	28.23	69.54	41.31	100	130	Horizontal
6	28.6113	11.29	19.62	0.97	31.88	69.54	37.66	100	0	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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NO. 1	9k QP Limit • QP Deter I Data List Frequency [MHz] 0.018	Reading [dBµV] 39.97	AF [dB/m] 19.84	Factor [dB] 0.43	QP Value [dBµV/m] 60.24	QP Limit [dBµV/m] 122.49	[dB] 62.25	[cm] 100	Angle [°] 124	Polarity
NO. 1 2	9k QP Limit • QP Deter I Data List Frequency [MHz] 0.018 0.0398	ctor Reading [dBµV] 39.97 26.59	AF [dB/m] 19.84 19.85	Factor [dB] 0.43 0.43	QP Value [dBµV/m] 60.24 46.87	P Limit [dBµV/m] 122.49 115.60	[dB] 62.25 68.73	[cm] 100 100	Angle [°] 124 124	Polarity Vertical Vertical
NO. 1 2 3	9k QP Limit QP Deter I Data List Frequency [MHz] 0.018 0.0398 0.1799	ctor Reading [dBμV] 39.97 26.59 24.3	AF [dB/m] 19.84 19.85 20.30	Factor [dB] 0.43 0.43 0.43	QP Value [dBµV/m] 60.24 46.87 45.03	QP Limit [dBµV/m] 122.49 115.60 102.50	[dB] 62.25 68.73 57.47	[cm] 100 100 100	Angle [°] 124 124 237	Polarity Vertical Vertical

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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	OP Limit     QP Detect  Data List  Frequency	ctor	AF	Factor	QP Value	QP Limit	Margin		_	
NO.	QP Limit     QP Detect      Data List      Frequency     [MHz]	ctor Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin [dB]	[cm]	[°]	Horizont
NO. 1	QP Limit     QP Deter      Data List      Frequency     [MHz]      40.67	Reading [dBµV] 33.58	AF [dB/m] 14.01	Factor [dB] -28.08	QP Value [dBµV/m] 19.52	QP Limit [dBµV/m] 40.00	Margin [dB] 20.48	[cm] 215	[°] 360	Horizont
NO. 1 2	QP Limit • QP Detect Data List Frequency [MHz] 40.67 94.7475	ctor Reading [dBμV] 33.58 42.91	AF [dB/m] 14.01 9.78	Factor [dB] -28.08 -27.52	QP Value [dBµV/m] 19.52 25.16	QP Limit [dBµV/m] 40.00 43.50	Margin [dB] 20.48 18.34	[cm] 215 229	[°] 360 360	Horizont Horizont Horizont
NO. 1 2 3	QP Limit • QP Deter Data List Frequency [MHz] 40.67 94.7475 165.0725	ctor Reading [dBµV] 33.58 42.91 31.89	AF [dB/m] 14.01 9.78 14.28	Factor [dB] -28.08 -27.52 -26.61	QP Value [dBµV/m] 19.52 25.16 19.55	QP Limit [dBµV/m] 40.00 43.50 43.50	Margin [dB] 20.48 18.34 23.95	[cm] 215 229 268	[°] 360 360 314	Polarity Horizont Horizont Horizont Horizont
NO. 1 2 3 4		ctor Reading [dBμV] 33.58 42.91 31.89 30.68	AF [dB/m] 14.01 9.78 14.28 13.50	Factor [dB] -28.08 -27.52 -26.61 -25.79	QP Value [dBµV/m] 19.52 25.16 19.55 18.39	QP Limit [dBµV/m] 40.00 43.50 43.50 46.00	Margin [dB] 20.48 18.34 23.95 27.61	[cm] 215 229 268 185	[°] 360 360 314 6	Horizont Horizont Horizont Horizont

#### NFC RE(Type 4)

3. Factor=Cable loss – Preamplifier Factor.



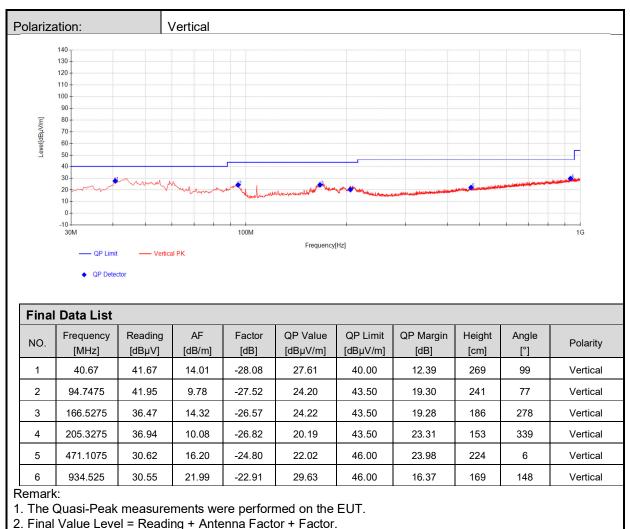
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3. Factor=Cable loss – Preamplifier Factor.

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