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TEST REPORT

Application No.:	SEWM2212000310RG
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:	PY7-38431P
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 SEWM2212000310RG07)
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:

anta Sun

Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2023/01/13		Original			
02		2023/02/24		 Added the Note of 20de BW on Page 25. Retested the data of Frequency Stability. 			
03		2023/03/09		 Updated spot check evaluation on Page 4. Add variant model and parent model data reference description. Retested the data of AC Power Line Conducted Emission 			

hereby deemed null and void.

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



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2 Test Summary

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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	15.225(d)/15.209	ANSI C63.10 2013	Clause 4.7	PASS*
Remark: "PASS*" There is FCC ID F 51629L (lead) data.	Y7-38431P (this model) s	pot check data. "Pass	refers to FCC	ID PY7-



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Remark:

This test report (Report No.: SEWM2212000310RG07 issue on 2023/03/09) is based on the original test report (Report No.: SEWM2212000308RG07 issue on 2023/03/09).

Difference section:

Sony corporation, hereby declares FCC ID PY7-38431P(this model) is the variant from FCC ID PY7-51629L(lead). They have the same dimension and share the same PCB layout, antennas and components in WLAN, Bluetooth and NFC transmitter. Along with the spot check verification data following the FCC KDB 484596 D01 v01

Reference detail section:

Therefore in this report only the items of AC Power Line Conducted Emission were fully tested, 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.

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	PY7-38431P Worst Result	PY7-51629L Worst Result	Difference(dB)
AC Power Line Conducted Emission	44.30	40.45	3.85
Field Strength of Fundamental Emissions	49.67	54.04	-4.37
Restricted bands around fundamental frequency (Radiated Emission)	27.91	29.39	-1.48



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3 General Information

3.1 Details of Client

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

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:	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:	0.124
SN:	HQ62B2030D HQ62B208EB
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:	
•	rovided 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 Paramete	er	101.0 kPa Sele	ected Values During Tests		
Relative Humidity		44-46	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 Temperatu	T: 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 orlentations 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

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Test Requirement:	47 CFR Part 15C Sectio	n 15.207			
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:		Limit (d	BuV)		
	Frequency range(MHz)	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:	 room. 2) The EUT was connected to a secon plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizon 4) The test was perform the EUT shall be 0, vertical ground reference plane. The unit under test and mounted on top of th the closest points of and associated equip 5) In order to find the mand all of the interfate 	disturbance voltage test was ected to AC power source tion Network) which provides ower cables of all other und 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 une. 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 bonded to a ground refe e ground reference plane. The the LISN 1 was placed 0.8 m f d bonded to a ground refe e ground reference plane. The the LISN 1 and the EUT. A boment was at least 0.8 m from the cables must be changed a bon conducted measurement.	through a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear inits of the EUT were d to the ground reference unit being measured. A bultiple power cables to a bit exceeded. ic table 0.8m above the rangement, the EUT was erence plane. The rear of nd reference plane. The bothe 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		



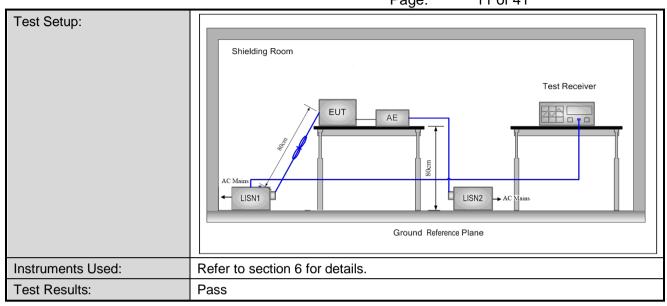
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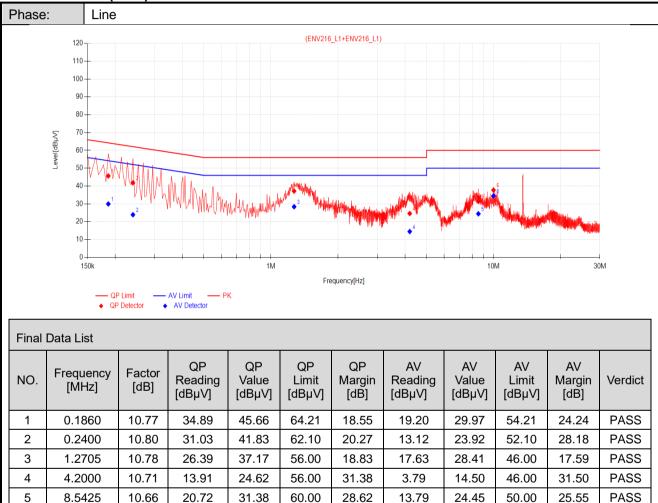
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Measurement Data

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(Lead) data:



6 Remark:

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

60.00

22.24

23.85

34.48

50.00

15.52

PASS

37.76

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

27.13

3. Margin = Limit[dBµV] – Value[dBµV]

10.63

9.9870



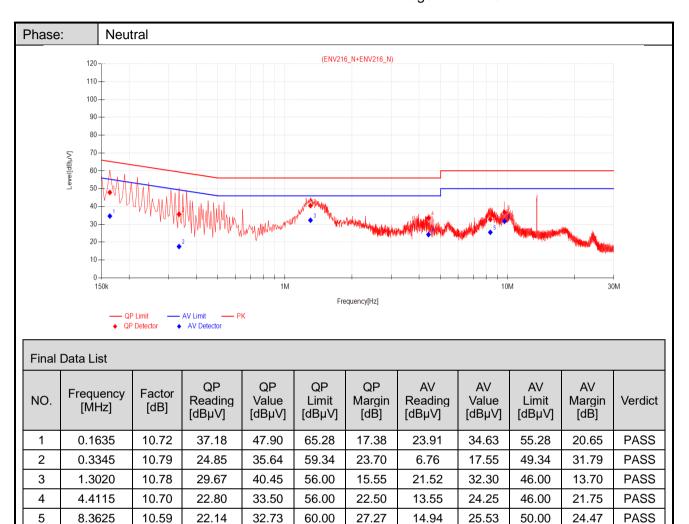
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6 Remark: 9.6855

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

60.00

23.28

21.08

31.74

50.00

18.26

PASS

36.72

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

26.06

3. Margin = Limit[dBµV] – Value[dBµV]

10.66



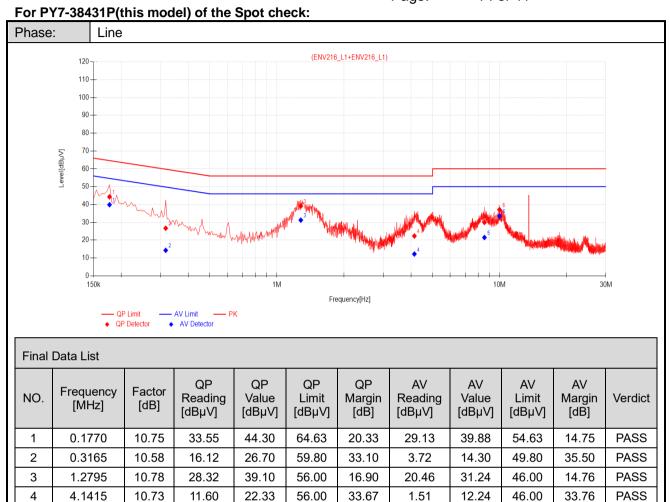
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6 Remark:

5

8.5470

9.9870

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

29.95

37.12

60.00

60.00

30.05

22.88

10.85

22.88

21.51

33.51

50.00

50.00

28.49

16.49

PASS

PASS

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

19.29

26.49

3. Margin = Limit[dB μ V] – Value[dB μ V]

10.66

10.63



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							Report No Rev.: Page:	03	VM2212 of 41	2000310	RG07
Phase:	Neut	ral									
	120				(ENV21€	δ_N+ENV216_N)					
Level(dB)	70 60 50 40 30 20 10		Mar		por the second sec	WHIM AND				∿ usÂus	-
Final Da	♦ QP		AV Limit PP AV Detector	1M K	Fre	quency[Hz]		10	м	3(DM
	requency	Factor	QP	QP Value	QP Limit	QP Margin	AV Reading	AV Value	AV Limit	AV Margin	Verdict
NO. F	[MHz]	[dB]	Reading [dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dB]	Verdiot
NO. F											PASS
NO.	[MHz]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dBµV]	[dB]	
1	[MHz] 0.1770	[dB] 10.71	[dBµV] 33.11	[dBµV] 43.82	[dBµV] 64.63	[dB] 20.81	[dBµV] 28.36	[dBµV] 39.07	[dBµV] 54.63	[dB] 15.56	PASS
1 2	[MHz] 0.1770 1.2885	[dB] 10.71 10.77	[dBµV] 33.11 29.40	[dBµV] 43.82 40.17	[dBµV] 64.63 56.00	[dB] 20.81 15.83	[dBµV] 28.36 22.02	[dBµV] 39.07 32.79	[dBµV] 54.63 46.00	[dB] 15.56 13.21	PASS PASS
1 2 3 4	[MHz] 0.1770 1.2885 3.7770	[dB] 10.71 10.77 10.71	[dBµV] 33.11 29.40 15.34	[dBµV] 43.82 40.17 26.05	[dBµV] 64.63 56.00 56.00	[dB] 20.81 15.83 29.95	[dBµV] 28.36 22.02 5.84	[dBµV] 39.07 32.79 16.55	[dBµV] 54.63 46.00 46.00	[dB] 15.56 13.21 29.45	PASS PASS PASS

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

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



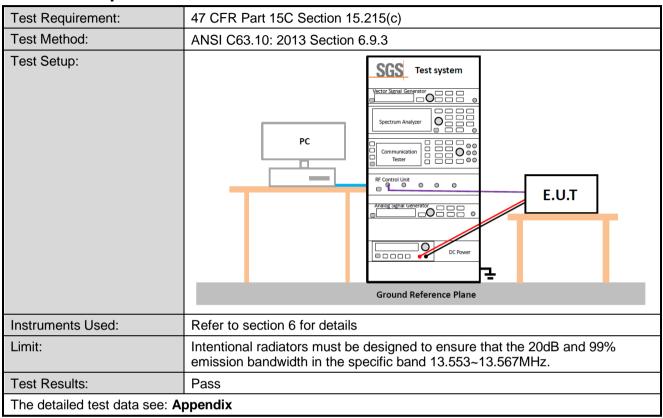
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4.4 20dB Spectrum Bandwidth

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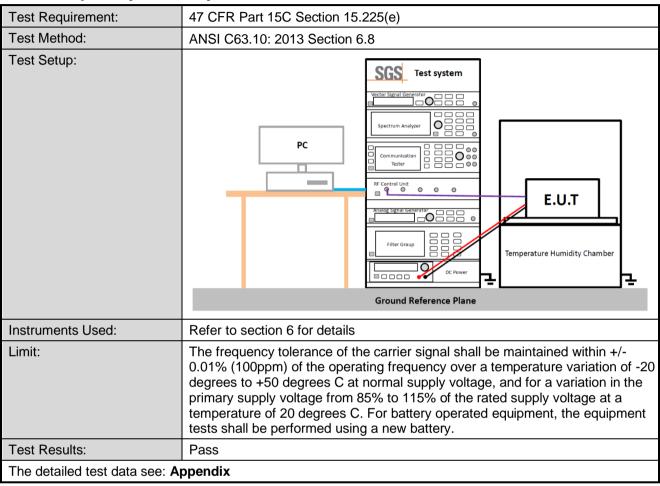
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4.5 Frequency Stability





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4.6 Field Strength of Fundamental Emissions

SG

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 (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			
Test Setup:								
	Antenna							
Test Procedure:	 a. The EUT was place at a 3 or 10 meter s determine the position b. The EUT was set 3 which was mounted 	emi-anechoic cam on of the highest ra or 10 meters awa on the top of a var	ber. The tab adiation. ay from the i riable-height	le was rotated nterference-rec antenna tower.	360 degrees to eiving antenna,			
	 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. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 							
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ments	are	performed	in	Х,	Υ,	Ζ	axis	positio
found	the X	axis positio	onir	ng w	vhic	h it	is wo	orse ca

	 f. The radiation measurements are performed in X, Y, Z axis positioning fo Transmitting mode, And found the X axis positioning which it is worse case. g. Repeat above procedures until all frequencies measured was complete. h. RBW set to 9kHz. 						
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:	t Results: Pass						
The detailed test data see: Appendix							



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4.7 Radiated Spurious Emissions

SG

Test Requirement:	47 CFR Part 15C Sectio	n 15.209 and 15.2	25					
Test Method:	ANSI C63.10 :2013 Sect	tion 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			
	employing a CISPR qua- 110-490kHz and above based on measurements any emission shall not ex by more than 20 dB under	1000 MHz. Radiates employing an average the maximum of the maximum	ed emission erage detect m permitted	limits in these to or, the peak fie average limits	three bands are Id strength of			
Test Setup:								
AE EUT Antenna Ground Reference Plane Ground Reference Plane Ground Reference Plane								
Test Rec	ceiver Amplier		Test Recei	ver Angiler Co	ntrolles			
Fig	ure 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 camber. 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 								



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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. m. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. o. Repeat above procedures until all frequencies measured was complete. 						
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	The detailed test data see: Appendix						



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

Item	Measurement Uncertainty		
Radio Frequency	±1.0 %		
Occupied Bandwidth	±1.0 %		
Conduction Emission	± 2.90dB (150kHz to 30MHz)		
Dedicted Emission	± 3.13dB (9k -30MHz)		
	± 4.88dB (30M -1GHz)		
	Radio Frequency Occupied Bandwidth		

Remark:

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The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (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

SG

	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 meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15			
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 Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
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 signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14			

CE Test System								
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			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18			
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR			



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			Page:	24 01 4 1	
		RSE Test Sy	/stem		
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 and humidity meter	MingGao	TH101B	SUWI-01-01-15	2022/02/16	2023/02/15
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
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
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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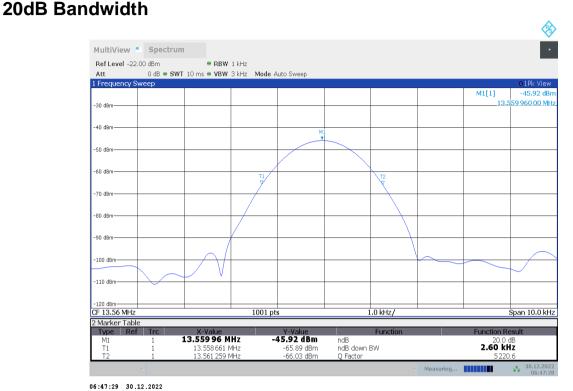
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Note:

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)		13.56MHz					
Startup								
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MH		Limit (%)	Result			
50		13.55991	0.0007		Pass			
40		13.55998	0.0001		Pass			
30		13.55996	0.0003		Pass			
20	3.89	13.55998	0.0001		Pass			
10	3.09	13.55998	0.0001	±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	13.55997	0.0002]	Pass			
20	3.40	13.55996	0.0003		Pass			

Declared Frequency (MHz)			13.56MHz					
2mins								
Temperature (°C)	Voltage(VDC)		/leasurement equency(MHz)	Frequency Tolerance (%)	Limit (%)	Result		
50			13.55998	0.0001		Pass		
40			13.55996	0.0003		Pass		
30	3.89 -		13.55991	0.0007	±0.01	Pass		
20			13.55997	0.0002		Pass		
10			13.55995	0.0004		Pass		
0			13.55997	0.0002		Pass		
-10			13.55998	0.0001		Pass		
-20	4.48 3.40		13.55996	0.0003		Pass		
20			13.55997	0.0002		Pass		
20			13.55998	0.0001		Pass		



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				ev.:	03	
			Pa	age:	29 of 41	
Declared Fre	equency (MHz)			13.56	ИHz	
		5mins				
Temperature (°C)	Voltage(VDC)	/leasurement equency(MHz)		equency cance (%)	Limit (%)	Result
50		13.55995	0	.0004		Pass
40		13.55998	0	.0001		Pass
30		13.55995	0	.0004		Pass
20	3.89	13.55998	0	.0001		Pass
10	3.69	13.55997	0	.0002	±0.01	Pass
0		13.55997	0	.0002	10.01	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)		13.56N	ЛНz	
		10mins			
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Frequency Tolerance (%)	Limit (%)	Result
50		13.55994	0.0004		Pass
40		13.55997	0.0002		Pass
30		13.55998	0.0001	-	Pass
20	3.89	13.55997	0.0002	-	Pass
10	3.69	13.55998	0.0001	±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



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NFC_Emission Mask(Type 4) Polarization: Horizontal FCC 15.225 140 130 120 110 100 90 FCC 15.225 -QP Limit 80 -.evel[dBµV/m] 70 60 50 40 30-20 -10-0 -10 13.11M 13.29M 13.38M 13.47M 13.65M . 13.74M 13.83M 13.92M 14.01M 13.2M 13.56M Frequency[Hz] - QP Limit ----- Horizontal PK QP Detector **Final Data List** QP AF **QP** Value **QP** Limit Frequency Reading Factor Height Angle NO. Margin Polarity [MHz] [dBµV] [dB/m] [dB] [dBµV/m] [dBµV/m] [cm] [°] [dB] 13.5598 33.68 19.67 0.69 54.04 124.00 69.96 100 349 Horizontal 1 Remark: 1. The Quasi-Peak measurements were performed on the EUT. 2. Value = Reading + Antenna Factor + Factor.

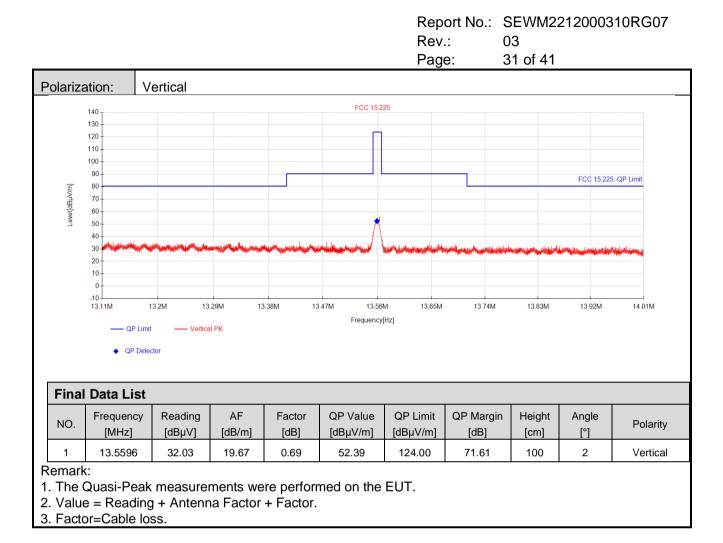
Field Strength of Fundamental Emissions

3. Factor=Cable loss.



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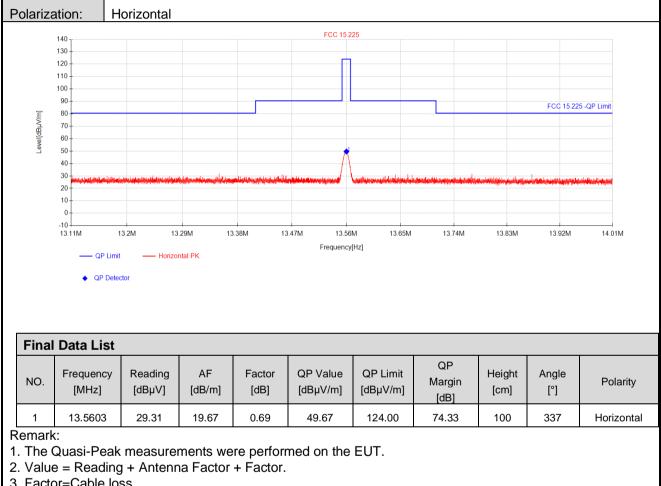
Test for spot check:

S

For PY7-38431P(this model)data:

Field Strength of Fundamental Emissions

NFC_Emission Mask(Type 4)

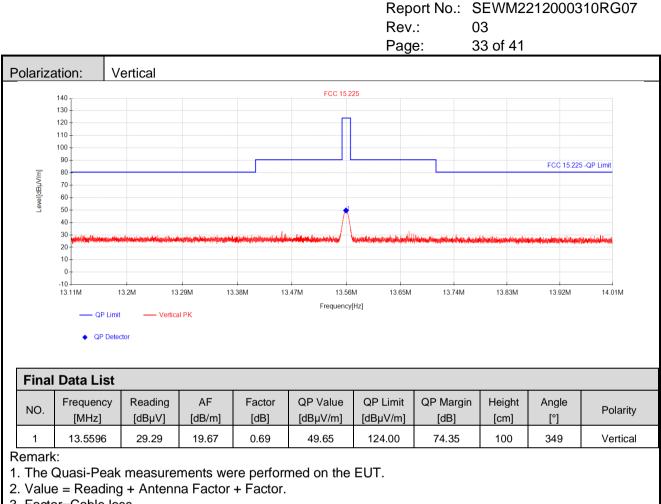


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3. Factor=Cable loss.



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NFC_RSE(Type 4) Polarization: Horizontal FCC 15.209 140 130 120 110 100 90 80 -.evel[dBµV/m] 70 60 50 · 40 30-20-10-0 -10 100k 1M 10M 30M 9k Frequency[Hz] - QP Limit - AV Limit ----- Horizontal PK QP Detector **Final Data List** QP Reading AF QP Value QP Limit Frequency Factor Height Angle NO. Margin Polarity [MHz] [dBµV] [dB/m] [dB] [dBµV/m] [dBµV/m] [cm] [°] [dB] 0.018 122.49 1 40.96 19.84 0.43 61.23 61.26 100 124 Horizontal 2 0.0524 28.57 19.81 0.43 48.81 113.21 64.40 100 346 Horizontal 3 0.0949 21.03 20.22 0.43 41.69 108.05 66.36 100 19 Horizontal 4 0.1799 31.84 20.30 0.43 52.57 102.50 49.93 100 1 Horizontal 5 6.2424 32.01 19.84 0.55 52.40 69.54 17.14 100 3 Horizontal 6 17.6807 15.65 19.87 0.77 36.28 69.54 33.26 100 139 Horizontal

Radiated Spurious Emissions

Remark:

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

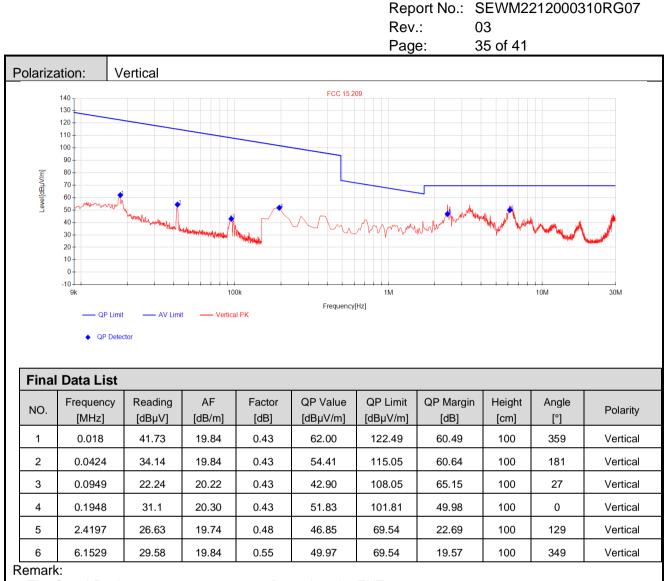
2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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

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3. Factor=Cable loss.



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olariza	ation:	ŀ	Iorizonta							
Leve[dBµV/m]	140 130 120 110 90 80 70 60 50 50 40 30 20 10	*****			~~~~~					
Final	-10	Horizo tor	ntal PK	100M	Frequency	[Hz]				16
Final NO.	30M QP Limit		AF [dB/m]	100M Factor [dB]	Frequency QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
	30M → QP Limit ◆ QP Detec Data List Frequency	tor	AF	Factor	QP Value	QP Limit	Margin			Polarity
NO.	30M → QP Limit ◆ QP Detect Data List Frequency [MHz]	tor Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin [dB]	[cm]	[°]	Polarity Horizonta
NO. 1	30M → QP Limit ◆ QP Detec Data List Frequency [MHz] 42.61	Reading [dBµV] 32.24	AF [dB/m] 13.85	Factor [dB] -28.06	QP Value [dBµV/m] 18.03	QP Limit [dBµV/m] 40.00	Margin [dB] 21.97	[cm] 102	[°] 283	Polarity Horizonta Horizonta
NO. 1 2	30M → QP Limit → QP Detect Data List Frequency [MHz] 42.61 99.84	tor Reading [dBµV] 32.24 39.62	AF [dB/m] 13.85 10.14	Factor [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	Polarity Horizonta Horizonta
NO. 1 2 3	30M → QP Limit ◆ QP Detect Data List Frequency [MHz] 42.61 99.84 163.375	tor Reading [dBμV] 32.24 39.62 39.86	AF [dB/m] 13.85 10.14 14.23	Factor [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	

NFC RF(Type 4)

3. Factor=Cable loss - Preamplifier Factor.



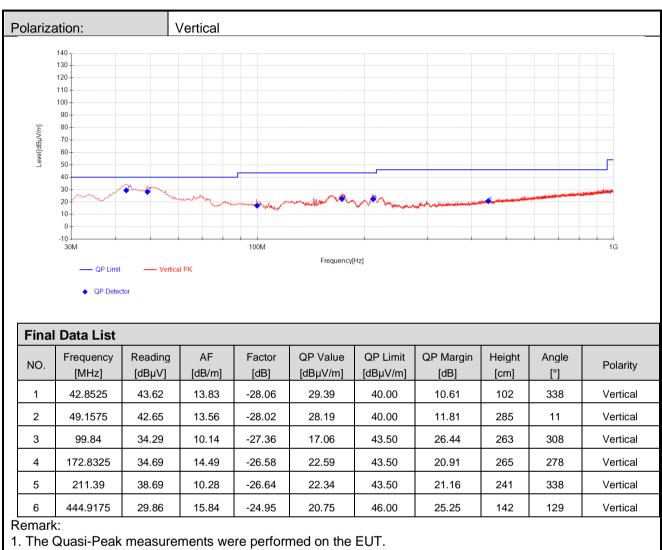
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2. Final Value Level = Reading + Antenna Factor + Factor.

3. Factor=Cable loss – Preamplifier Factor.



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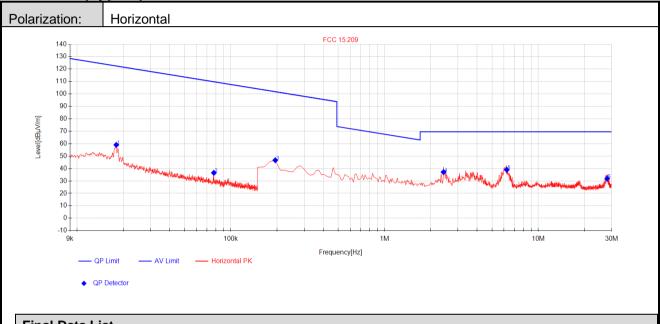
Test for spot check:

For PY7-38431P(this model)data:

Radiated Spurious Emissions

NFC_RSE(Type 4)

S



F	inal	Data List									
I	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	38.74	19.84	0.43	59.01	122.49	63.48	100	3	Horizontal
	2	0.0776	16.11	20.01	0.43	36.55	109.80	73.25	100	0	Horizontal
	3	0.1948	25.95	20.30	0.43	46.68	101.81	55.13	100	359	Horizontal
	4	2.4197	16.89	19.74	0.48	37.11	69.54	32.43	100	359	Horizontal
	5	6.2424	18.65	19.84	0.55	39.04	69.54	30.50	100	314	Horizontal
	6	28.0886	11.21	19.65	0.96	31.82	69.54	37.72	100	191	Horizontal

Remark:

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

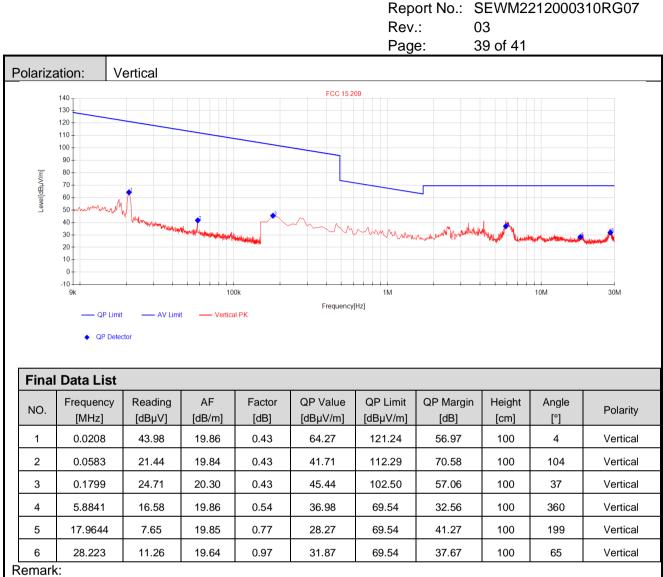
2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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

2. Value = Reading + Antenna Factor + Factor.

3. Factor=Cable loss.



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Final			intal PK		Frequency	[Hz]				
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	♦ QP Detect		AF [dB/m]	Factor [dB]	Prequency QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin	Height [cm]	Angle [°]	Polarity
	QP Deter	Reading	AF		QP Value	QP Limit				Polarity Horizonta
NO.	QP Detect	Reading [dBµV]	AF [dB/m]	[dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	Margin [dB]	[cm]	[°]	
NO. 1	OP Detect	Reading [dBµV] 33.51	AF [dB/m] 14.03	[dB] -28.08	QP Value [dBµV/m] 19.47	QP Limit [dBµV/m] 40.00	Margin [dB] 20.53	[cm] 211	[°] 354	Horizonta
NO.	OP Detect Data List Frequency [MHz] 40.4275 67.5875	tor Reading [dBµV] 33.51 31.64	AF [dB/m] 14.03 11.29	[dB] -28.08 -27.71	QP Value [dBµV/m] 19.47 15.21	QP Limit [dBµV/m] 40.00 40.00	Margin [dB] 20.53 24.79	[cm] 211 156	[°] 354 6	Horizonta
NO. 1 2 3	QP Detect Data List Frequency [MHz] 40.4275 67.5875 94.7475	ctor Reading [dBμV] 33.51 31.64 42.39	AF [dB/m] 14.03 11.29 9.78	[dB] -28.08 -27.71 -27.52	QP Value [dBµV/m] 19.47 15.21 24.64	QP Limit [dBµV/m] 40.00 40.00 43.50	Margin [dB] 20.53 24.79 18.86	[cm] 211 156 293	[°] 354 6 22	Horizonta Horizonta Horizonta

NFC_RE(Type 4)

2. Final value Level = Reduing + Aintenna Factor + 1

3. Factor=Cable loss – Preamplifier Factor.



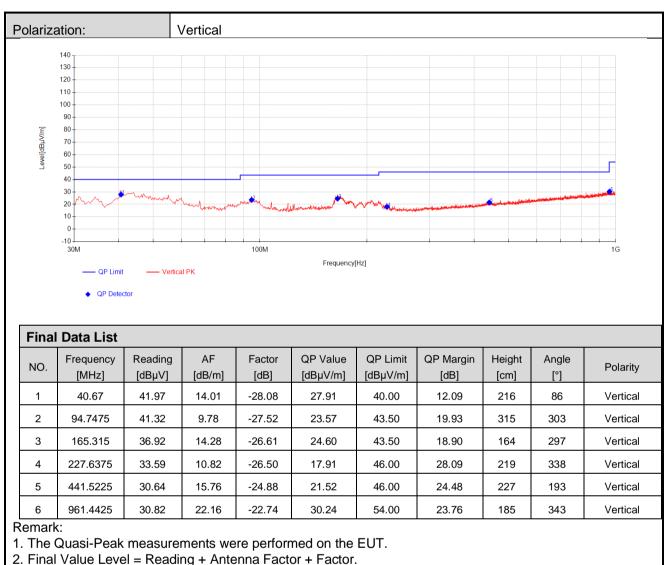
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3. Factor=Cable loss – Preamplifier Factor.

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