

CERTIFICATION TEST REPORT

REPORT NUMBER: 12132671-E7V2

APPLICANT: SONY MOBILE COMMUNICATIONS INC.

4-12-3 HIGASHI-SHINAGAWA,

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

FCC ID: PY7-11821Y

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

TEST STANDARD(S) : FCC 47 CFR PART 15 SUBPART C

Date Of Issue:

March 08, 2018

Prepared by:

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FCC ID: PY7-11821Y

Revision History

Ver.	Issue Date	Revisions	Revised By
V1	03/06/18	Initial Issue	
	03/08/18	Updated Section 5.7	Kiya Kedida

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.

4-12-3 HIGASHI-SHINAGAWA.

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

SERIAL NUMBER: BH9000CQBB

DATE TESTED: FEBRUARY 19 - 24, 2018

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL Verification Services Inc. By: Prepared By:

Dan Coronia

Operations Leader

UL Verification Services Inc.

Glenn Escano Test Engineer

UL Verification Services Inc.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
	☐ Chamber D (IC:22541-1)
Chamber B (IC:2324B-2)	☐ Chamber E (IC: 22541-2)
☐ Chamber C (IC:2324B-3)	☐ Chamber F (IC: 22541-3)
	☐ Chamber G (IC: 22541-4)
	Chamber H (IC: 22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. Chambers A through C are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under Industry Canada company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Radiated Disturbance,1000 to 18000 MHz	4.32 dB
Radiated Disturbance,18000 to 26000 MHz	4.45 dB
Radiated Disturbance,26000 to 40000 MHz	5.24 dB

Uncertainty figures are valid to a confidence level of 95%.

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5. EQUIPMENT UNDER TEST

5.1. **DESCRIPTION OF EUT**

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC.

5.2. MAXIMUM FIELD STRENGTH

The testing was performed at 3 meters. The transmitter maximum E-field at 30 meter distance was 11.21dBuV/m, which was converted from the 3 meter data.

5.3. **DESCRIPTION OF AVAILABLE ANTENNAS**

The radio utilizes the loop antenna.

5.4. **SOFTWARE AND FIRMWARE**

The software version installed in the EUT during testing was 0.108.

5.5. **WORST-CASE CONFIGURATION AND MODE**

Radiated emission was performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z, it was determined that Y-Axis with AC/DC adapter and headphone was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y-Axis with AC/DC adapter and headphone orientation.

NOTE: The EUT pre-scanned in three NFC type A, B & F. The worst type is A, and data rate of 106kbps was recorded to this report.

5.6. **MODIFICATIONS**

No modifications were made during testing.

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DESCRIPTION OF TEST SETUP 5.7.

SUPPORT EQUIPMENT

Support Equipment List							
Description Manufacturer Model Serial Number FCC ID							
AC Adapter	SONY	UCH12	VB17W46601037	NA			
Headphone	SONY	MH410c	N/A	N/A			

I/O CABLES

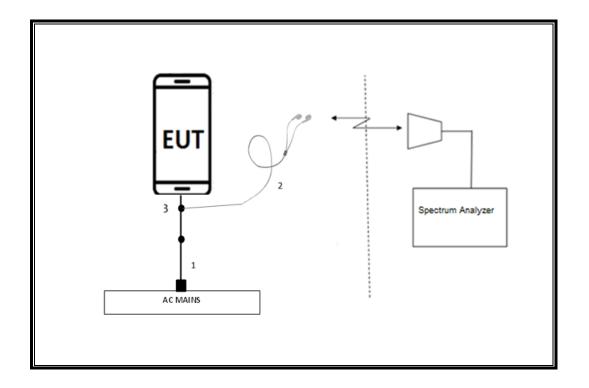
	I/O Cable List								
Cable	Cable Port # of Connector Type Cable Type Cable Remarks								
No		identical			Length				
		ports			(m)				
1	USB	1	AC Adapter	Un-Shielded	1.2m	No			
2	Jack	1	Headset	Shielded	1m	No			
3	USB/HP Jack	1	USB Type-C/Audio	Un-Shielded	.2m	Audio & Charging Cabel			

TEST SETUP

The EUT is setup as a standalone device. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS

RADIATED AND AC LINE CONDUCTED EMISSIONS SETUP DIAGRAM



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6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST								
Description	Manufacturer	Model	ID Num	Cal Due				
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB Pad	Sunol Sciences Corp.	JB1	T130	10/16/2018				
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	PRE0165308	12/13/2018				
Amplifier, 10kHz-1GHz	Agilent (Keysight) Technologies	8447D	T15	08/14/2018				
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1466	04/11/2018				
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T905	02/03/2019				
Temperature Chamber	Thermotron Industires	SE-600-10-10	T80	08/22/2018				
EMI Test Receiver	Rohde & Schwarz	ESR	PRE0176493	02/21/2019				
LISN	Fischer Custom Communications	FCC-LISN- 50/250-25-2- 01	T1310	06/15/2018				
Transient Limiter	COM-POWER	LIT-930	T1457	03/01/2018				

Test Software List						
Description	Manufacturer	Model	Version			
Antenna Port Software	UL	UL EMC	Ver 7.9.1, Jan 25, 2018			
Radiated Emissions Software	UL	UL EMC	Ver 9.5, Dec 01, 2016			

NOTE: *testing is completed before equipment calibration expiration date.

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7. OCCUPIED BANDWIDTH

LIMITS

For reporting purposes only. Tested per ANSI C63.10 (6.9.3)

RESULTS

ID:	29435 TC	Date:	2/19/18
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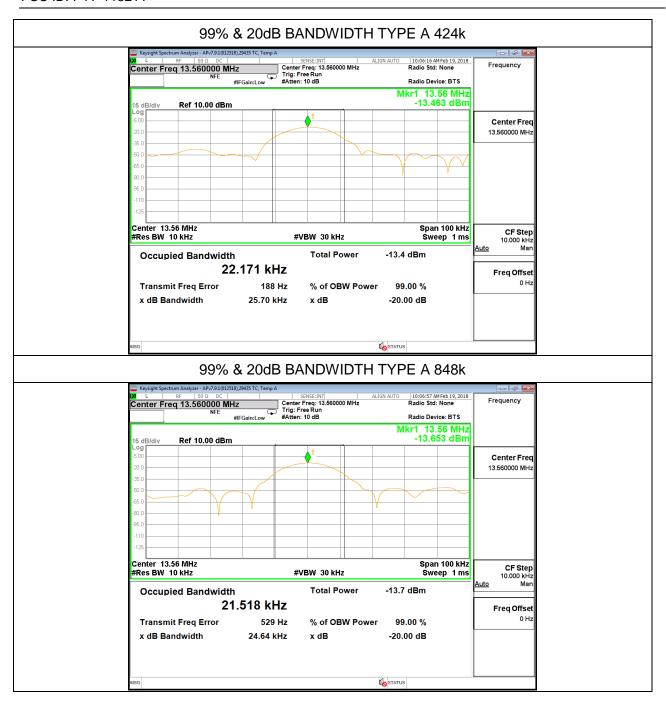
Frequency	requency Modulation		99% Bandwidth	20dB Bandwidth
(MHz)	(MHz)		(kHz)	(kHz)
		106	24.184	25.66
	Type A	212	22.676	25.21
	Type A	424	22.171	25.70
		848	21.518	24.64
		106	23.075	24.40
13.56	Туре В	212	23.613	25.62
		424	21.817	25.35
		848	21.492	25.08
		212	21.307	24.95
	Type F	424	21.165	24.87
		848	21.208	25.01

Note: Measured signal is CW 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.

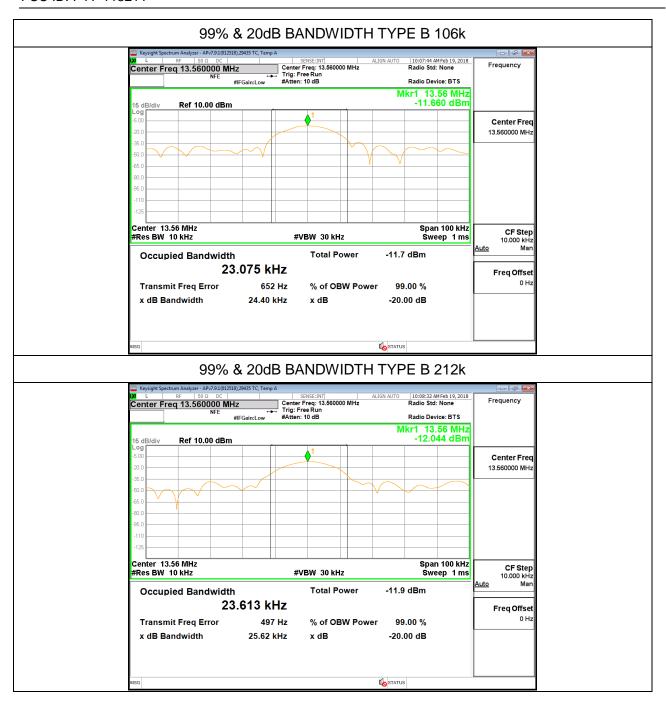
99% & 20dB Bandwidth



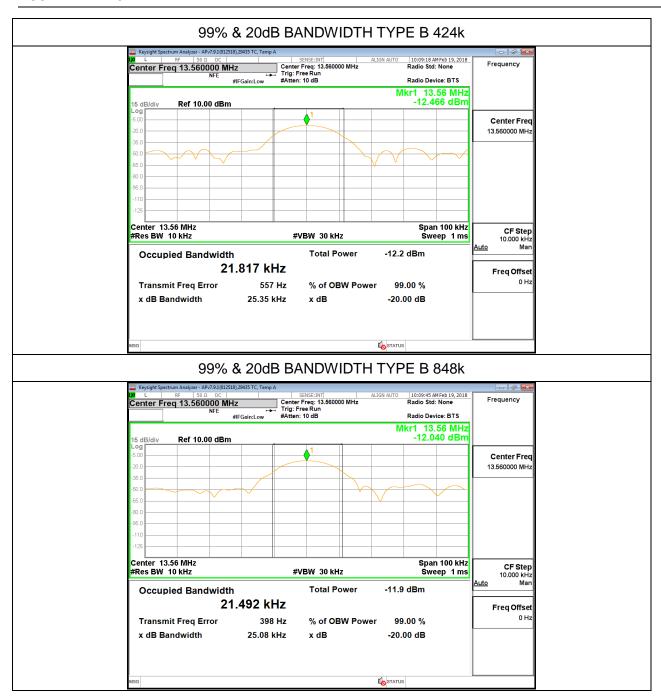
FCC ID: PY7-11821Y



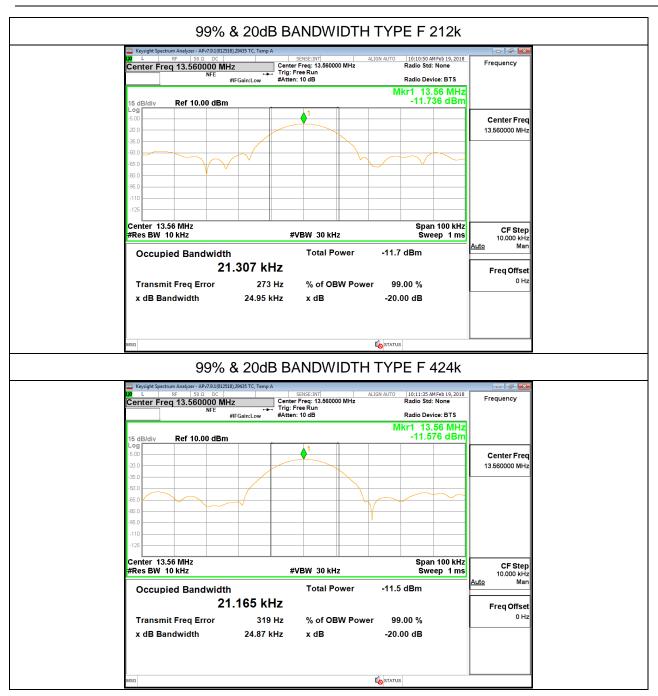
FCC ID: PY7-11821Y



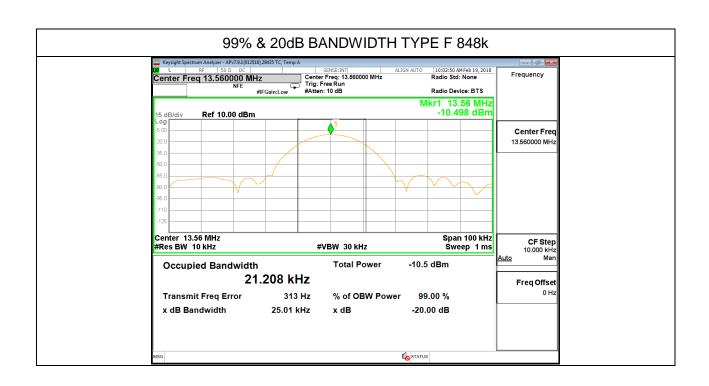
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8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

§15.225, 15.209

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator							
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)					
0.009 - 0.490	2400 / F (kHz)	300					
0.490 - 1.705	24000 / F (kHz)	30					
1.705 – 30.0	30	30					
30 – 88	100**	3					
88 - 216	150**	3					
216 – 960	200**	3					
Above 960	500	3					

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is: Limit $(dBuV/m) = 20 \log \lim (uV/m)$ In addition:

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§15.209 (d) The emission limits shown at the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10-2013

The EUT is an intentional radiator that incorporates a digital device. The highest fundamental frequency generated or used in the device is 13.56 MHz. The frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater (1000MHz)

RESULTS

No non-compliance noted:

KDB 414788 OATS and Chamber Correlation Justification

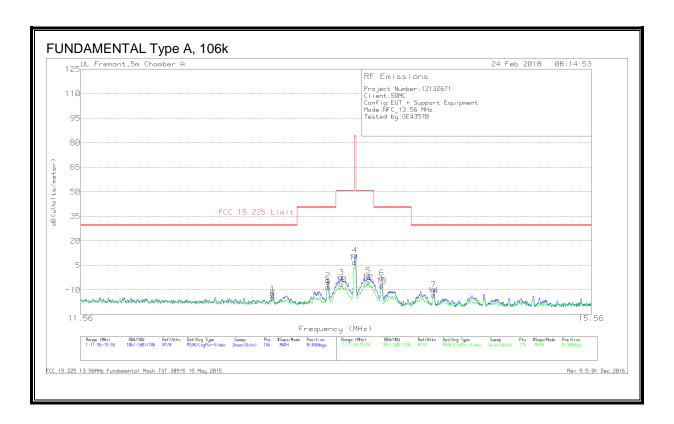
Device is a Smart Phone.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

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8.1.1. FUNDAMENTAL EMISSION MASK (11.56 – 15.56MHz)



Note: All data rate Field Strength was investigated and Type A, 106k found to have the highest Field Strength results and represents as the worst case data rate.

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Trace Markers

Marker	Frequency	Meter	Det	Loop Antenna	Cbl (dB)	Dist Corr 30m	Corrected	FCC 15.225	PK Margin	Azimuth	Azimuth
	(MHz)	Reading		(dB/m)			Reading	Limit	(dB)	(Degs)	(Degs)
		(dBuV)					dB(uVolts/meter)				
1	12.925	16.37	Pk	10.7	.6	-40	-12.33	29.54	-41.87	0-360	Face-On
8	12.92545	13.93	Pk	10.7	.6	-40	-14.77	29.54	-44.31	0-360	Face-Off
2	13.34788	24.58	Pk	10.7	.6	-40	-4.12	40.51	-44.63	0-360	Face-On
9	13.34799	20.26	Pk	10.7	.6	-40	-8.44	40.51	-48.95	0-360	Face-Off
10	13.45225	22	Pk	10.7	.6	-40	-6.7	50.5	-57.2	0-360	Face-Off
3	13.45413	26.41	Pk	10.7	.6	-40	-2.29	50.5	-52.79	0-360	Face-On
11	*13.55807	35.54	Pk	10.6	.6	-40	6.74	84	-77.26	0-360	Face-Off
4	*13.56	40.01	Pk	10.6	.6	-40	11.21	84	-72.79	0-360	Face-On
12	13.66404	23.45	Pk	10.6	.6	-40	-5.35	50.5	-55.85	0-360	Face-Off
5	13.66638	27.66	Pk	10.6	.6	-40	-1.14	50.5	-51.64	0-360	Face-On
13	13.76986	21.53	Pk	10.6	.5	-40	-7.37	40.51	-47.88	0-360	Face-Off
6	13.77213	26.39	Pk	10.6	.5	-40	-2.51	40.51	-43.02	0-360	Face-On
14	14.19344	15.57	Pk	10.6	.5	-40	-13.33	29.54	-42.87	0-360	Face-Off
7	14.19563	19.04	Pk	10.6	.5	-40	-9.86	29.54	-39.4	0-360	Face-On

^{* -} Indicates fundamental frequency

Pk - Peak detector

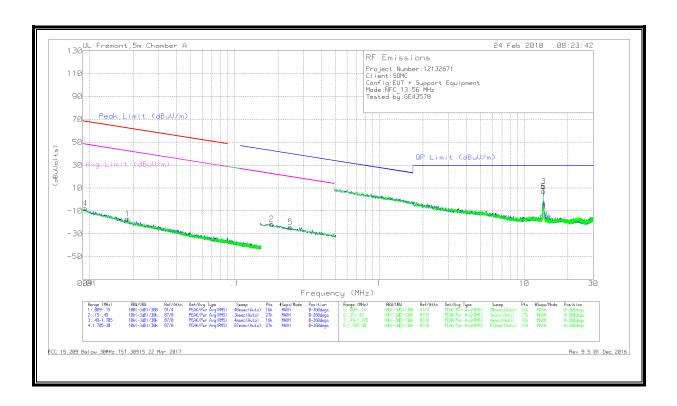
Fundamental Frequency

Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Antenna Position
*13.55807	35.54	Pk	10.6	.6	-40	6.74	84	-77.26	0-360	Face-Off
*13.56	40.01	Pk	10.6	.6	-40	11.21	84	-72.79	0-360	Face-On

Pk - Peak detector

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8.1.2. SPURIOUS EMISSIONS (0.09 - 30MHz)



Trace Markers

Marker	Frequency	Meter	Det	Loop Antenna	Cbl	Dist Corr	Corrected	Peak Limit	Margin	Avg Limit	Margin	Peak Limit	Margin	Avg Limit	Margin	Azimuth
	(MHz)	Reading		(dB/m)	(dB)	300m	Reading	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(Degs)
		(dBuV)					(dBuVolts)									
4	.00934	52.61	Pk	19.5	.1	-80	-7.79	68.18	-75.97	48.18	-55.97		-			0-360
1	.01833	48.11	Pk	15	.1	-80	-16.79	62.32	-79.11	42.32	-59.11	-	-	-		0-360
2	.18088	47.35	Pk	11	.1	-80	-21.55	-		-	-	42.47	-64.02	22.47	-44.02	0-360
5	.2441	44.69	Pk	11	.1	-80	-24.21	-		-		39.86	-64.07	19.86	-44.07	0-360

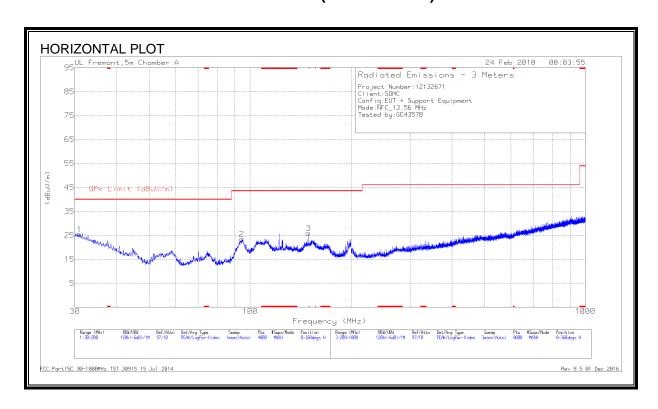
Pk - Peak detector

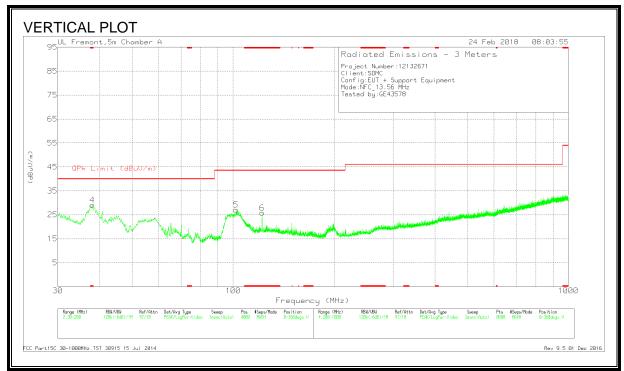
Ma	arker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
	3	*13.55945	39.85	Pk	11	.6	-40	11.45	29.5	-18.05	-	-	-	-	0-360
	6	*13.55945	35.36	Pk	11	.6	-40	6.96	29.5	-22.54	-	-	-	-	0-360

^{* -} Indicates fundamental frequency

Pk - Peak detector

8.1.3. TX SPURIOUS EMISSIONS (30 - 1000MHz)





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 38.0346	36.93	Pk	19.4	-27.2	29.13	40	-10.87	0-360	100	V
6	* 122.0363	34.17	Pk	17.9	-26.2	25.87	43.52	-17.65	0-360	100	V
1	31.0203	28.11	Pk	24.5	-27.3	25.31	40	-14.69	0-360	101	Н
2	94.5104	37.17	Pk	12.7	-26.4	23.47	43.52	-20.05	0-360	200	Н
5	102.0987	38.68	Pk	14.8	-26.4	27.08	43.52	-16.44	0-360	100	V
3	149.1583	35.28	Pk	16.5	-25.9	25.88	43.52	-17.64	0-360	200	Н

^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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9. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range	Limit	s (dBµV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Notes:

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

TEST PROCEDURE

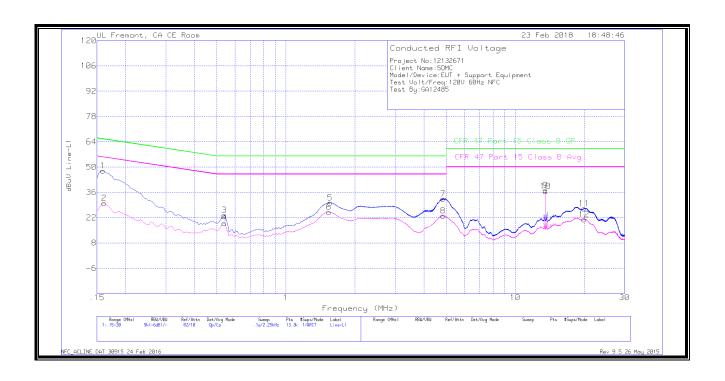
ANSI C63.10

RESULTS

No non-compliance noted.

FCC ID: PY7-11821Y

EUT WITH ANTENNA - LINE 1 RESULTS



WORST EMISSIONS

Range	1: Line-L1 .	15 - 30MH	lz								
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.159	37.66	Qp	.1	0	10.1	47.86	65.52	-17.66	-	-
2	.16125	19.73	Ca	.1	0	10.1	29.93	-	-	55.4	-25.47
3	.53925	13.23	Qp	0	0	10.1	23.33	56	-32.67	-	-
4	.53925	8.76	Ca	0	0	10.1	18.86	-	-	46	-27.14
5	1.56075	20.06	Qp	0	.1	10.1	30.26	56	-25.74	-	-
6	1.53825	14.96	Ca	0	.1	10.1	25.16	-	-	46	-20.84
7	4.85475	22.18	Qp	0	.1	10.2	32.48	56	-23.52	-	-
8	4.85475	12.81	Ca	0	.1	10.2	23.11	-	-	46	-22.89
9	13.56	26.6	Qp	.1	.2	10.2	37.1	60	-22.9	-	-
10	13.56	26.18	Ca	.1	.2	10.2	36.68	-	-	50	-13.32
11	19.977	16.4	Qp	.1	.3	10.3	27.1	60	-32.9	-	-
12	19.96575	10.33	Ca	.1	.3	10.3	21.03	-	-	50	-28.97

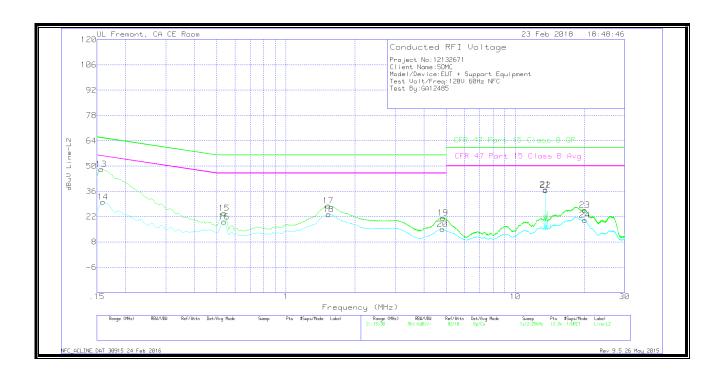
Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: Markers 9 and 10 are the 13.56MHz NFC Fundamental

FCC ID: PY7-11821Y

EUT WITH ANTENNA-LINE 2 RESULTS



WORST EMISSIONS

Range	2: Line-L2 .	15 - 30MH	lz								
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.15675	38.14	Qp	0	0	10.1	48.24	65.63	-17.39	-	-
14	.159	20.02	Ca	0	0	10.1	30.12	-	-	55.52	-25.4
15	.53812	13.83	Qp	0	0	10.1	23.93	56	-32.07	-	-
16	.537	9.1	Ca	0	0	10.1	19.2	-	-	46	-26.8
17	1.52925	17.83	Qp	0	.1	10.1	28.03	56	-27.97	-	-
18	1.53375	12.98	Ca	0	.1	10.1	23.18	-	-	46	-22.82
19	4.83225	11.01	Qp	0	.1	10.2	21.31	56	-34.69	-	-
20	4.82438	4.69	Ca	0	.1	10.2	14.99	-	-	46	-31.01
21	13.56	26.46	Qp	.1	.2	10.2	36.96	60	-23.04	-	-
22	13.56	26.12	Ca	.1	.2	10.2	36.62	-	-	50	-13.38
23	20.10075	14.95	Qp	0	.3	10.4	25.65	60	-34.35	-	-
24	20.10075	9.38	Ca	0	.3	10.4	20.08	-	-	50	-29.92

Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: Markers 21 and 22 are the 13.56MHz NFC Fundamental

FCC ID: PY7-11821Y

10. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency, over a temperature variation of -10 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 PROCEDURE

ANSI C63.10

RESULTS

ID: 29435 TC Date: 2/19/18

No non-compliance noted.

			Refere	nce Frequency	: EUT Channe	el 13.56 MHz @	20°C			
			Limit:	± 100 ppm =		1.356	kHz			
Power	Envir.									
Supply	Temp			Frequen	cy Deviation I	Measureed with	h Time El	apse		
		Startup	Delta	@ 2 mins	Delta	@ 5 mins	Delta	@ 10 mins	Delta	Limit
(Vdc)	(°C)	(MHz)	(ppm)	(MHz)	(ppm)	(MHz)	(ppm)	(MHz)	(ppm)	(ppm)
3.80	50	13.5599358	3.718	13.5599358	3.717	13.5599355	3.743	13.5599357	3.727	± 100
3.80	40	13.5599611	1.853	13.5599569	2.163	13.5599555	2.267	13.5599512	2.583	± 100
3.80	30	13.5600211	-2.570	13.5599779	0.612	13.5599795	0.499	13.5599778	0.622	± 100
3.80	20	13.5599862	0.000	13.5599861	0.006	13.5599862	0.002	13.5599863	-0.006	± 100
3.80	10	13.5600193	-2.443	13.5600413	-4.060	13.5600413	-4.064	13.5600374	-3.775	± 100
3.80	0	13.5600605	-5.481	13.5600607	-5.496	13.5600612	-5.526	13.5600620	-5.588	± 100
3.80	-10	13.5600652	-5.828	13.5600650	-5.811	13.5600627	-5.641	13.5600627	-5.639	± 100
3.23	20	13.5599863	-0.007	13.5599864	-0.016	13.5599876	-0.103	13.5599880	-0.129	± 100
4.37	20	13.5599876	-0.105	13.5599878	-0.118	13.5599879	-0.124	13.5599882	-0.146	± 100