



CERTIFICATION TEST REPORT

Report Number. : 11775548-E8V2

Applicant : SONY MOBILE COMMUNICATIONS INC.
4-12-3 HIGASHI-SHINAGAWA,
SHINAGAWA -KU,TOKYO, 140-0002, JAPAN

FCC ID : PY7-10720W

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 B

Date Of Issue:

August 28, 2017

Prepared by:

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	08/11/17	Initial Issue	D. Corona
V2	08/28/17	Added Section 6	D. Corona

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.
EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, & NFC.
SERIAL NUMBER: BH9000J688
DATE TESTED: August 2 - 11, 2017

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART B	Pass

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.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2014.

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
<input type="checkbox"/> Chamber A(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 22541-1)
<input checked="" type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 22541-2)
<input type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 22541-3)
	<input type="checkbox"/> Chamber G(IC: 22541-4)
	<input type="checkbox"/> 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.

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:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

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.

GENERAL INFORMATION

Highest frequency generated or used by the EUT	5GHz
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5.2. TEST CONFIGURATIONS

The following configuration was tested:

EUT Configuration	Description
1	Laptop Sync Mode - The EUT was configured as table top equipment. The EUT is installed in a typical configuration. The EUT is connected to a laptop via USB, is charging and transferring data via the laptop.
2	Charging - The EUT was configured as table top equipment. The EUT is installed in a typical configuration. The EUT is connected to an AC adapter for charging and in a functional mode.

5.3. MODE(S) OF OPERATION

Mode	Description
Sync mode	Data transfer; Sync video file from laptop to EUT and continued playing video during testing.
Charging Mode	Charging with supplied USB charger. EUT and its charger shall be on back edge of table, with charger connected to extension cord.

5.4. SOFTWARE AND FIRMWARE

The software version installed in the EUT during testing was 0.274.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	2349CW5	PB05HPL	DoC
Earphone	Sony	N/A	N/A	N/A
AC Adapter	Lenovo	ADLX90NLT2A	11S45N0307ZLZ436RDM2	N/A
Mouse	Logitech	M-U0026	1304HS02AX68	N/A
Keyboard	Lenovo	KU-0225	54Y9400	N/A
Switch	Netgear	FS105 v2	1D52163304A74	DoC
AC Adapter	Netgear	FA-0751000SUA	332-10154-01	N/A

I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	2	Power	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A
3	USB	1	Mini-USB	Shielded	0.9 m	UCB20 cable from EUT to Laptop
3	USB	2	USB	Shielded	2m	From laptop to keyboard & mouse
4	AC Power	2	IEC	Unshielded	1m	N/A
5	Ethernet	1	RJ45	Unshielded	2m	N/A

TEST SETUP

The EUT is installed in a typical configuration. Test software exercised the EUT.

6. REUSE OF TEST DATA

6.1. INTRODUCTION

According to the manufacturer, FCC ID: PY7-32042D and FCC ID: PY7-10720W unlicensed radios (WLAN/BT/BLE/NFC) are electrically identical. They share the same chipset, same power and same antenna performance including antenna gain. The FCC ID: PY7-32042D test data shall remain representative of FCC ID: PY7-10720W so, FCC ID: PY7-10720W leverages test data from FCC ID: PY7-32042D.

The applicant takes full responsibility that the test data as referenced in this section represents compliance for this FCC ID.

6.2. DEVICES DIFFERENCES

Difference between PY7-32042D and PY7-10720W:

Various components were removed from PY7-32042D to establish PY7-10720W; such components are related only to the cellular part and there are no changes in non-cellular (WLAN/BT/BLE/NFC) parts, which are electronically identical.

6.3. RADIATED EMISSIONS VERIFICATION

Radiated emissions were fully re-evaluated against FCC Part 15B requirements for digital devices and results indicated no significant differences between the two versions

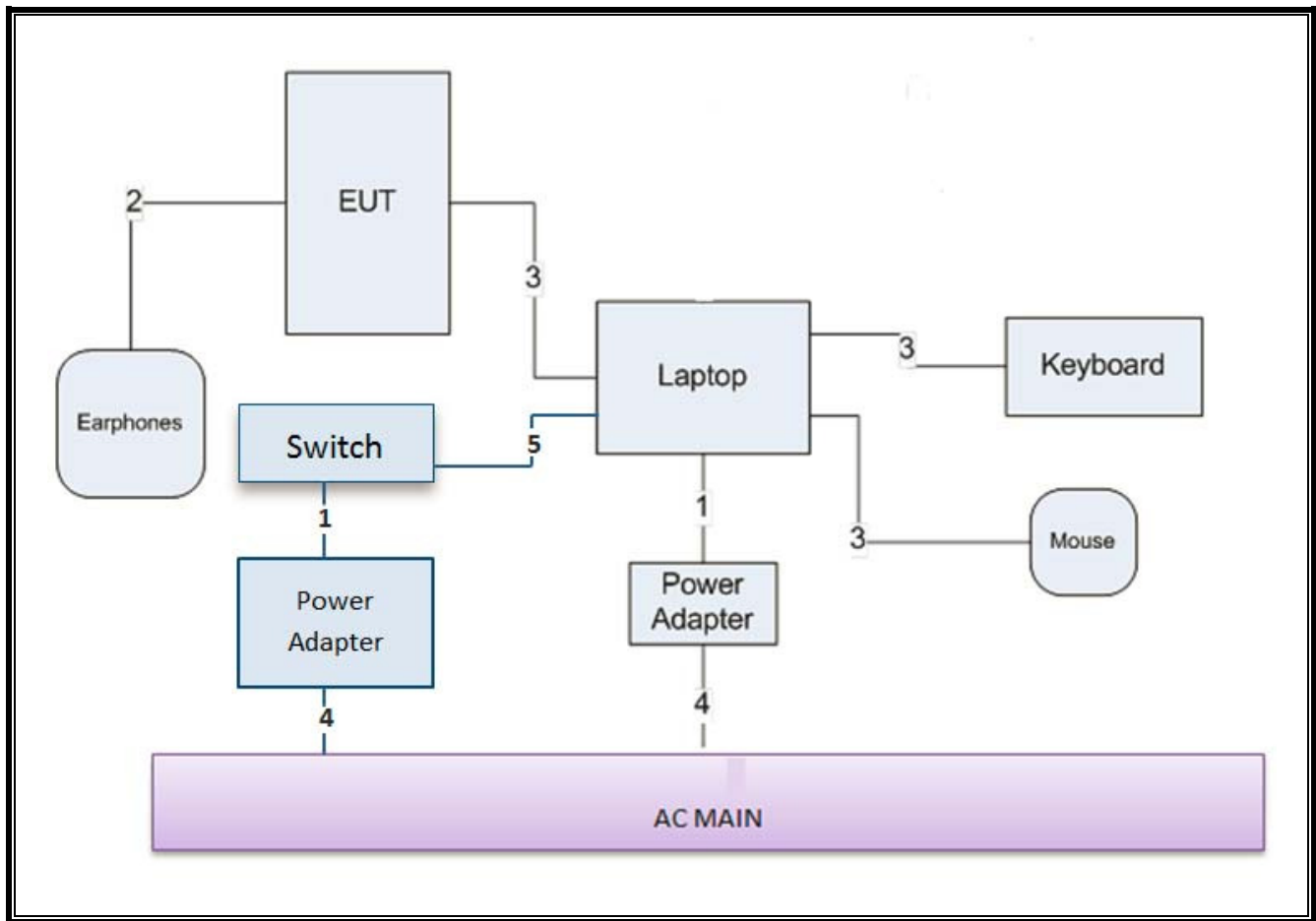
NOTE: AC Main Line Conducted Emissions please refer to *11760905-E8V2* FCC Report 15B.

PY7-10720W and PY7-32042D using only one power charger

6.4. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title/Section
DSS (BT)	PY7-32042D	11760905-E2V2 FCC Report BT
DTS (BLE)	PY7-32042D	11760905-E3V2 FCC Report BLE
DTS (WLAN)	PY7-32042D	11760905-E4V2 FCC Report DTS
UNII (WLAN)	PY7-32042D	11760905-E5V2 FCC Report UNII
NFC	PY7-32042D	11760905-E7V1 FCC Report NFC
JBP	PY7-32042D	11760905-E8V2 FCC Report 15B

SETUP DIAGRAM



7. APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

7.1. EMISSIONS 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	T Number	Cal Date	Cal Due
Amplifier, 1 to 18 GHz	Miteq	AFS43-00101800-25-S-42	493	02/15/17	02/15/18
Amplifier, 10KHz to 1GHz, 32dB	Keysight	8447D	10	02/05/17	02/05/18
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	899	06/05/17	06/05/18
Horn Antenna, 1-18GHz	ETS-Lindgren	3117	863	06/09/17	06/09/18
EMI Receiver	Rohde & Schwarz	ESR-EMI	1436	01/06/17	01/06/18
LISN	FISCHER	FCC-LISN-50/250-25-2-01	1310	06/15/17	06/15/18
18 - 26.5 GHz Horn Antenna	Seavey Division	MWH-1826/B	449	06/12/17	06/12/18
26.5 - 40 GHz Horn Antenna	ARA	MWH-2640/B	446	06/12/17	06/12/18
Pre-Amp 1-26.5 GHz	Agilent	8449B	404	07/23/17	07/23/18
Pre-Amp, 26-40GHz	MITEQ	NSP4000-SP2	88	04/29/17	04/29/18
Spectrum Analyzer	Agilent	N9030A	907	01/23/17	01/23/18
Spectrum Analyzer	Agilent	8564E	106	09/07/16	09/07/17

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, Dec 01, 2016

7.2. RADIATED EMISSIONS LIMITS AND RESULTS

LIMIT

FCC Part 15 Subpart B

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m		
Frequency range (MHz)	Field Strength Limit (uV/m)	Quasi-Peak Limit (dBuV/m)
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46
Above 960 MHz	500	54
Note: The lower limit shall apply at the transition frequency.		
Frequency (MHz)	Peak (dBuV/m) Limit	Average (dBuV/m) Limit
Above 1000	74	54

TEST PROCEDURE

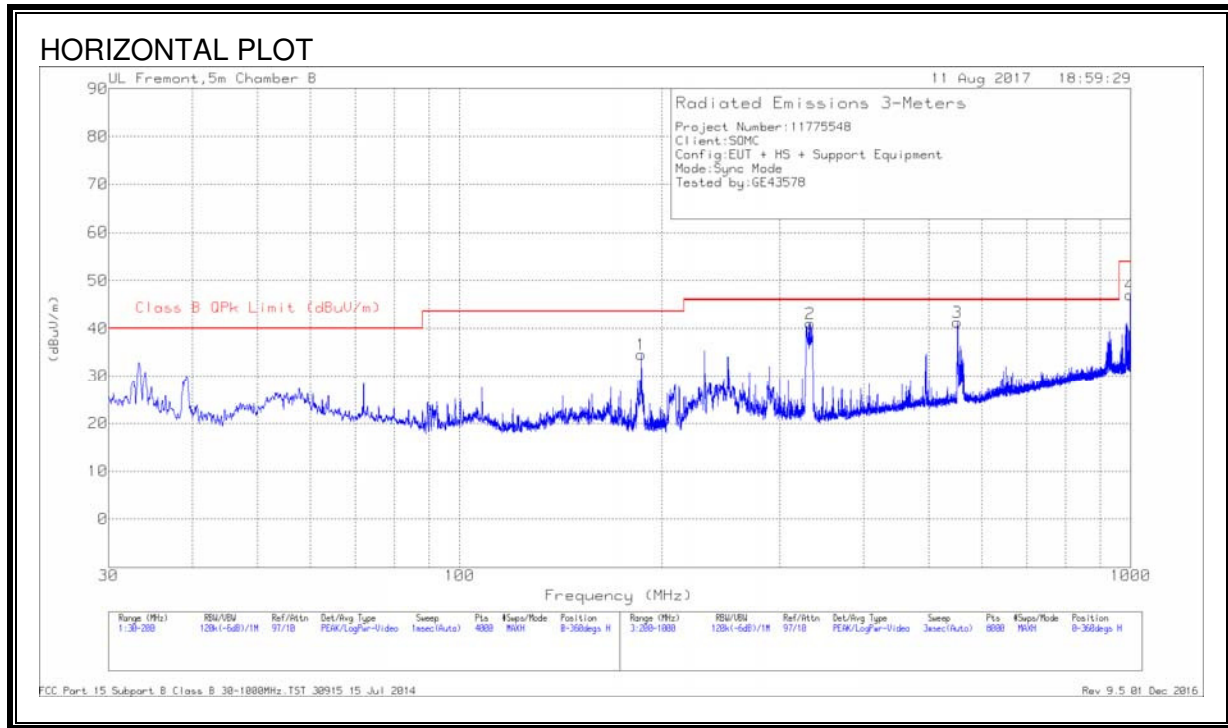
ANSI C63.4: 2014

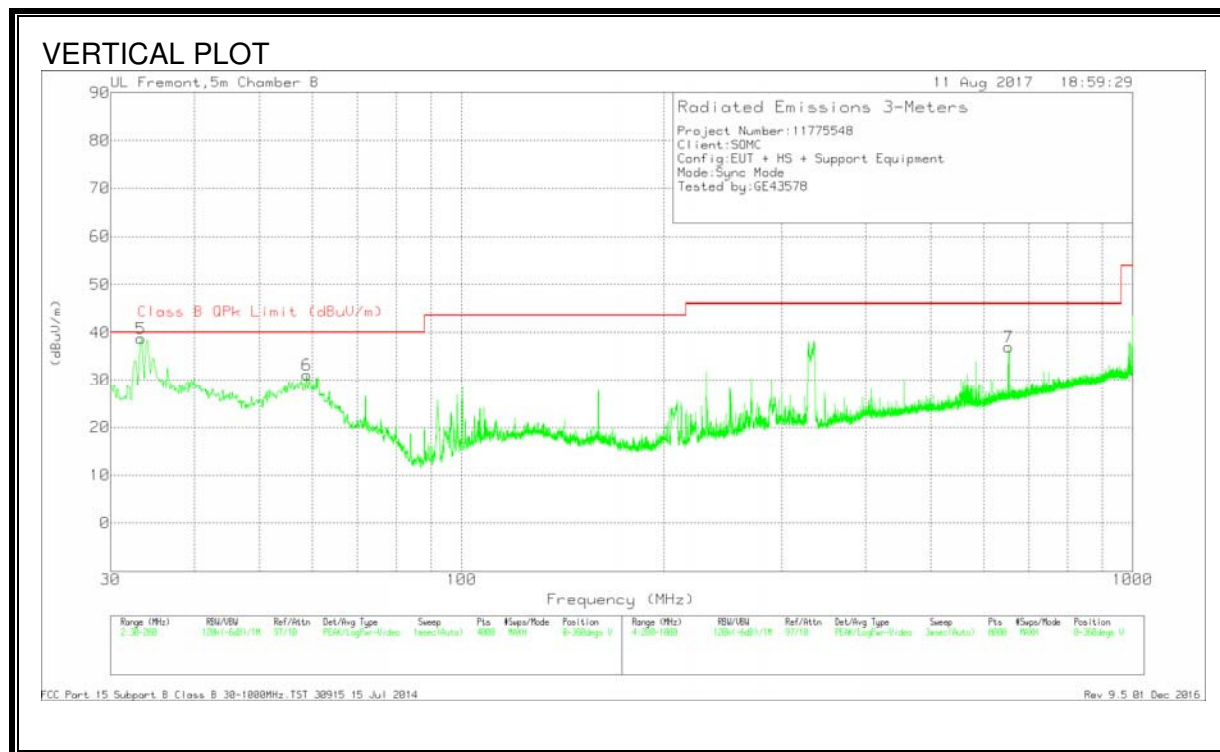
The highest frequency generated or used in the EUT is 5825MHz therefore the frequency range was investigated from 30 MHz to 40 GHz.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

RESULTS

7.2.1. RADIATED EMISSIONS 30 TO 1000 MHz (SYNC MODE)





HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	33.3159	44.42	Pk	23.1	-28.8	38.72	40	-1.28	0-360	100	V
6	58.7799	47.95	Pk	11.6	-28.4	31.15	40	-8.85	0-360	100	V
1	186.5255	46.62	Pk	15	-27	34.62	43.52	-8.9	0-360	200	H
2	332.7173	48.92	Pk	17.8	-25.7	41.02	46.02	-5	0-360	100	H
3	551.9457	44.85	Pk	22.2	-25.8	41.25	46.02	-4.77	0-360	400	H
7	653.859	38.72	Pk	23.6	-25.4	36.92	46.02	-9.1	0-360	100	V
4	996.9036	42.64	Pk	27.3	-22.9	47.04	53.97	-6.93	0-360	300	H

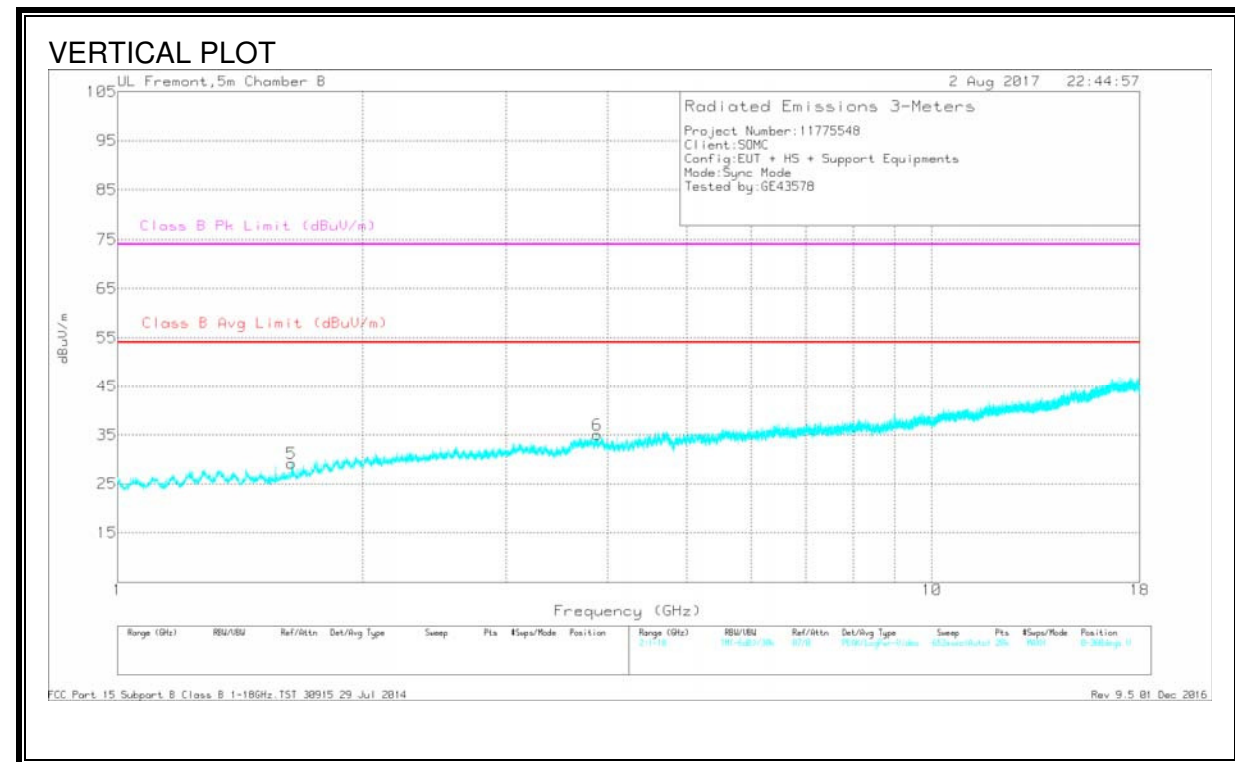
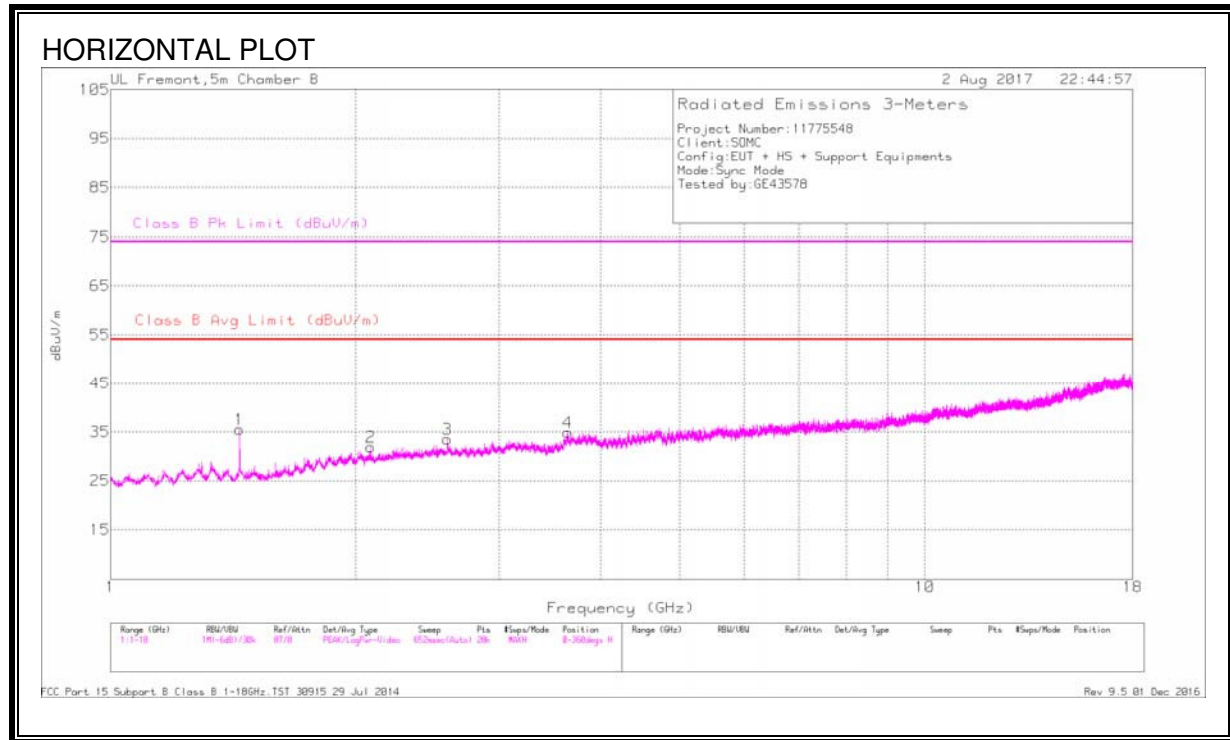
Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
33.3063	39.53	Qp	23.2	-28.8	33.93	40	-6.07	68	109	V
58.9465	41.04	Qp	11.6	-28.4	24.24	40	-15.76	78	139	V
186.3541	31.91	Qp	15	-27	19.91	43.52	-23.61	165	246	H
332.7245	43.24	Qp	17.8	-25.7	35.34	46.02	-10.68	252	110	H
551.9975	24.78	Qp	22.2	-25.8	21.18	46.02	-24.84	325	183	H
653.9862	24.46	Qp	23.6	-25.4	22.66	46.02	-23.36	8	229	V
996.9305	22.45	Qp	27.3	-22.9	26.85	53.97	-27.12	146	163	H

Qp - Quasi-Peak detector

7.2.2. RADIATED EMISSIONS 1GHz to 18GHz (SYNC MODE)



HORIZONTAL AND VERTICAL DATA

Radiated Emissions

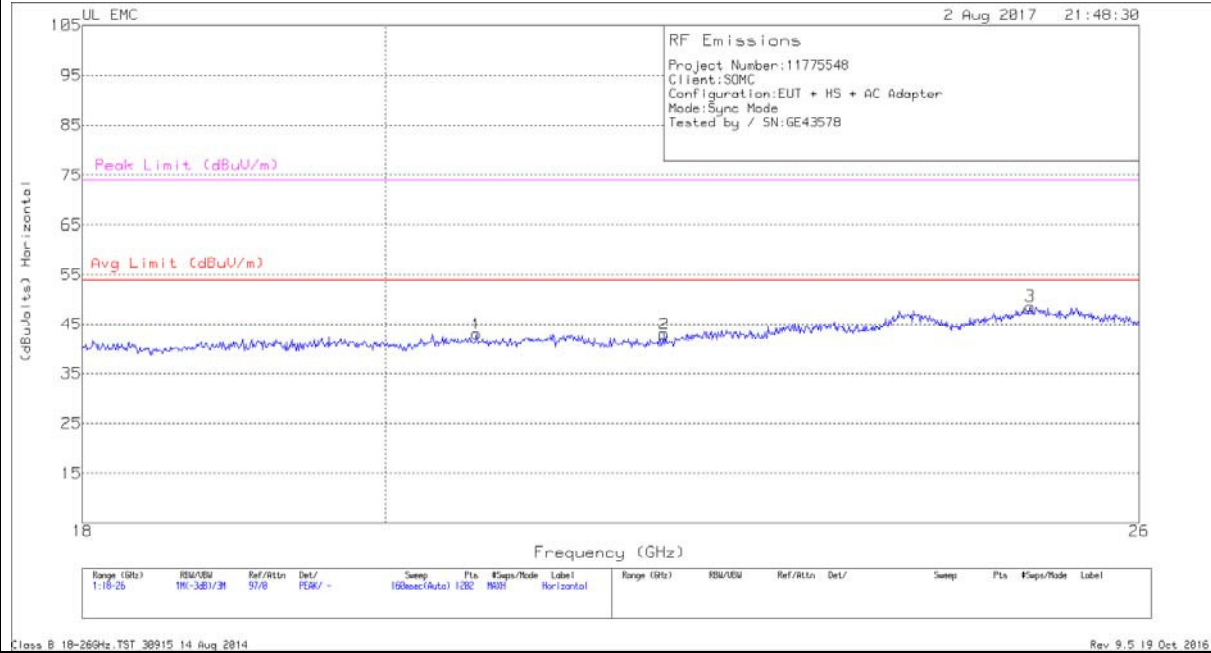
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.439	40.96	Pk	28.3	-33.9	35.36	-	-	74	-38.64	151	315	H
	1.439	28.15	Av	28.3	-33.9	22.55	54	-31.45	-	-	151	315	H
5	1.636	44.76	Pk	28.5	-33.2	40.06	-	-	74	-33.94	59	198	V
	1.636	27.73	Av	28.5	-33.2	23.03	54	-30.97	-	-	59	198	V
2	2.088	40.31	Pk	31.4	-32.8	38.91	-	-	74	-35.09	140	258	H
	2.088	26.97	Av	31.4	-32.8	25.57	54	-28.43	-	-	140	258	H
3	2.594	38.91	Pk	32.6	-31.8	39.71	-	-	74	-34.29	217	153	H
	2.594	26.56	Av	32.6	-31.8	27.36	54	-26.64	-	-	217	153	H
4	3.646	39	Pk	33.2	-30.9	41.3	-	-	74	-32.7	102	198	H
	3.646	26.52	Av	33.2	-30.9	28.82	54	-25.18	-	-	102	198	H
6	3.88	37.85	Pk	33.5	-30.5	40.85	-	-	74	-33.15	252	104	V
	3.88	26.32	Av	33.5	-30.5	29.32	54	-24.68	-	-	252	104	V

Pk - Peak detector

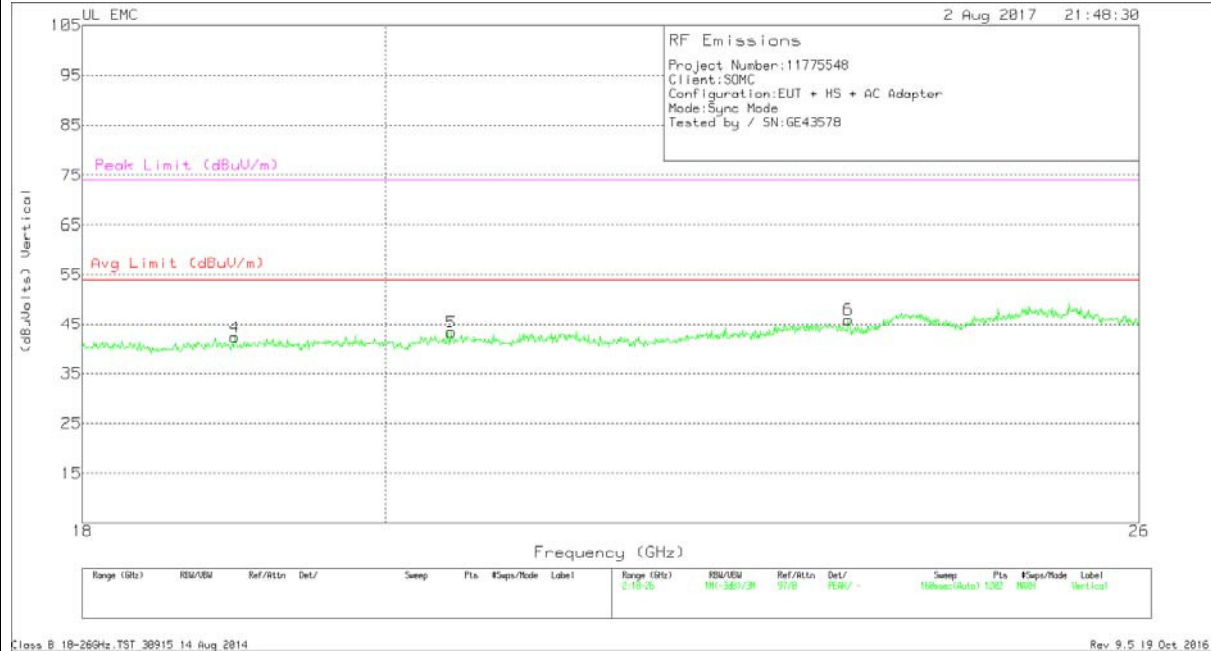
Av - Average detection

7.2.3. RADIATED EMISSIONS 18 to 26 GHz (SYNC MODE)

HORIZONTAL PLOT



VERTICAL PLOT



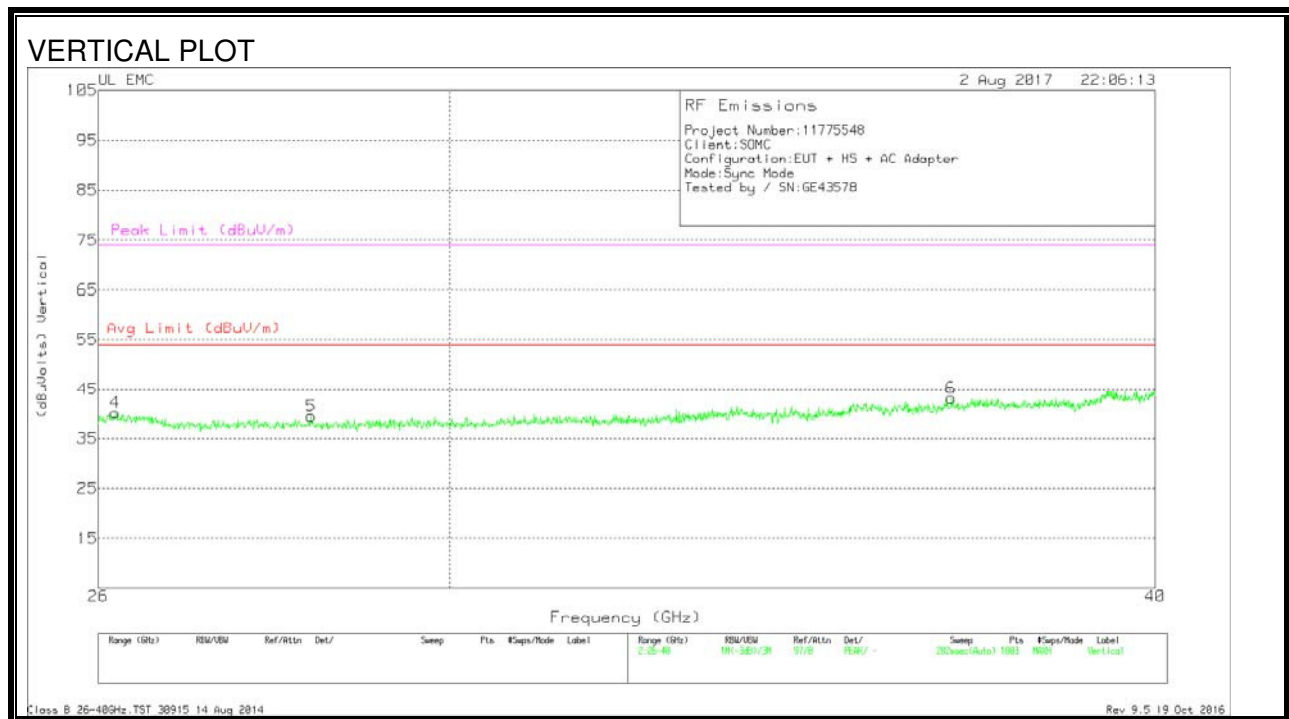
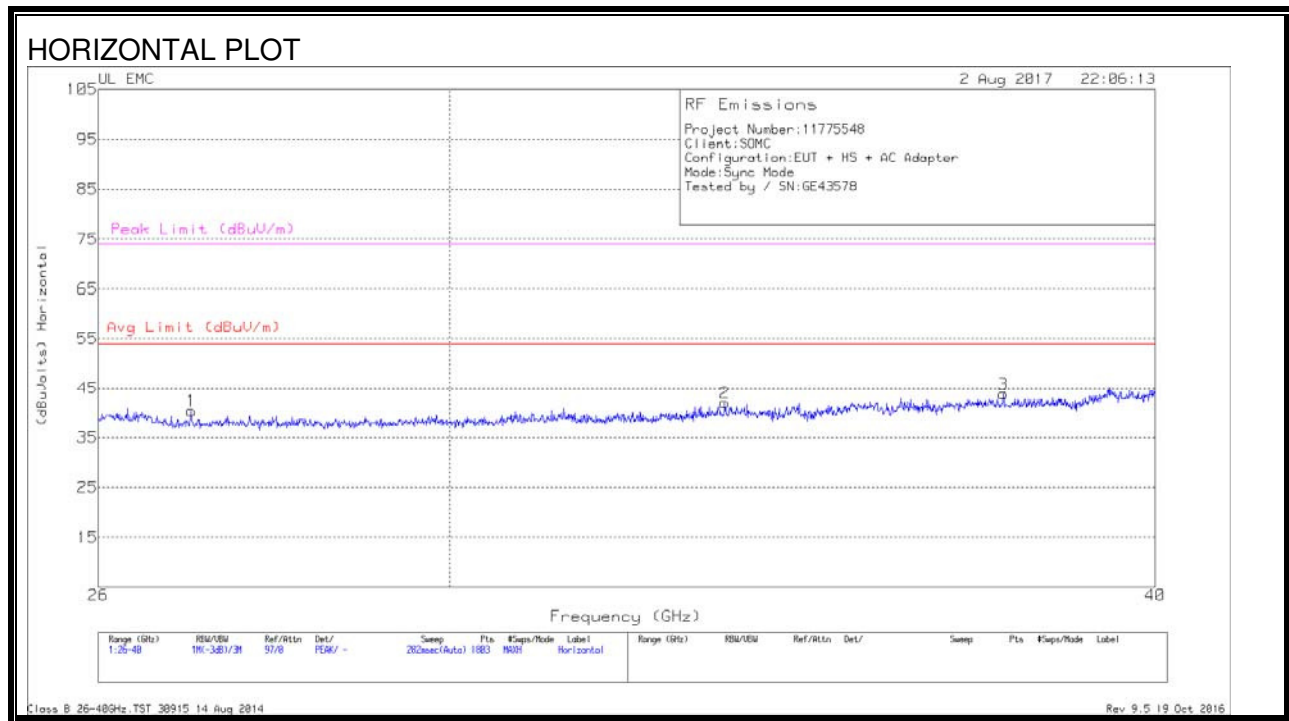
HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	20.644	41.3	Pk	33	-21.8	-9.5	43	54	-11	74	-31
2	22.037	40.4	Pk	33.4	-21.3	-9.5	43	54	-11	74	-31
3	25.034	43.87	Pk	34.4	-20.1	-9.5	48.67	54	-5.33	74	-25.33
4	18.979	41.63	Pk	32.4	-22.2	-9.5	42.33	54	-11.67	74	-31.67
5	20.465	41.63	Pk	33.1	-21.9	-9.5	43.33	54	-10.67	74	-30.67
6	23.495	41.9	Pk	34	-20.4	-9.5	46	54	-8	74	-28

Pk - Peak detector

7.2.4. RADIATED EMISSIONS 26 to 40 GHz (SYNC MODE)



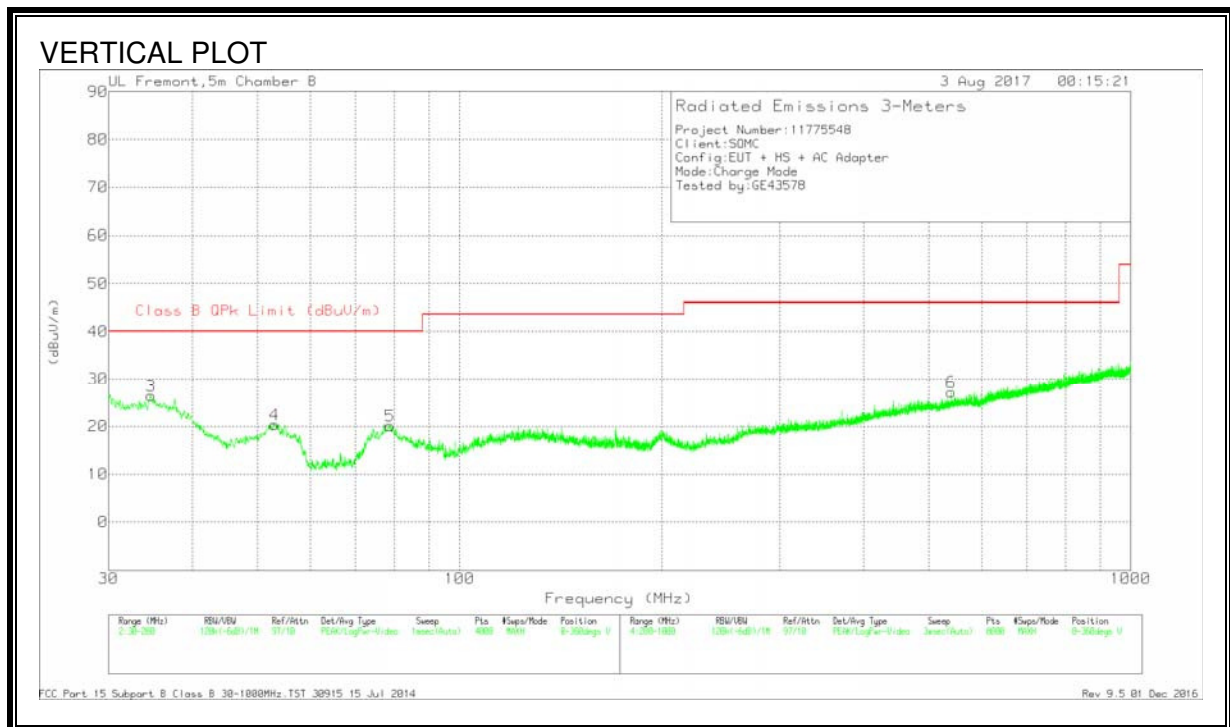
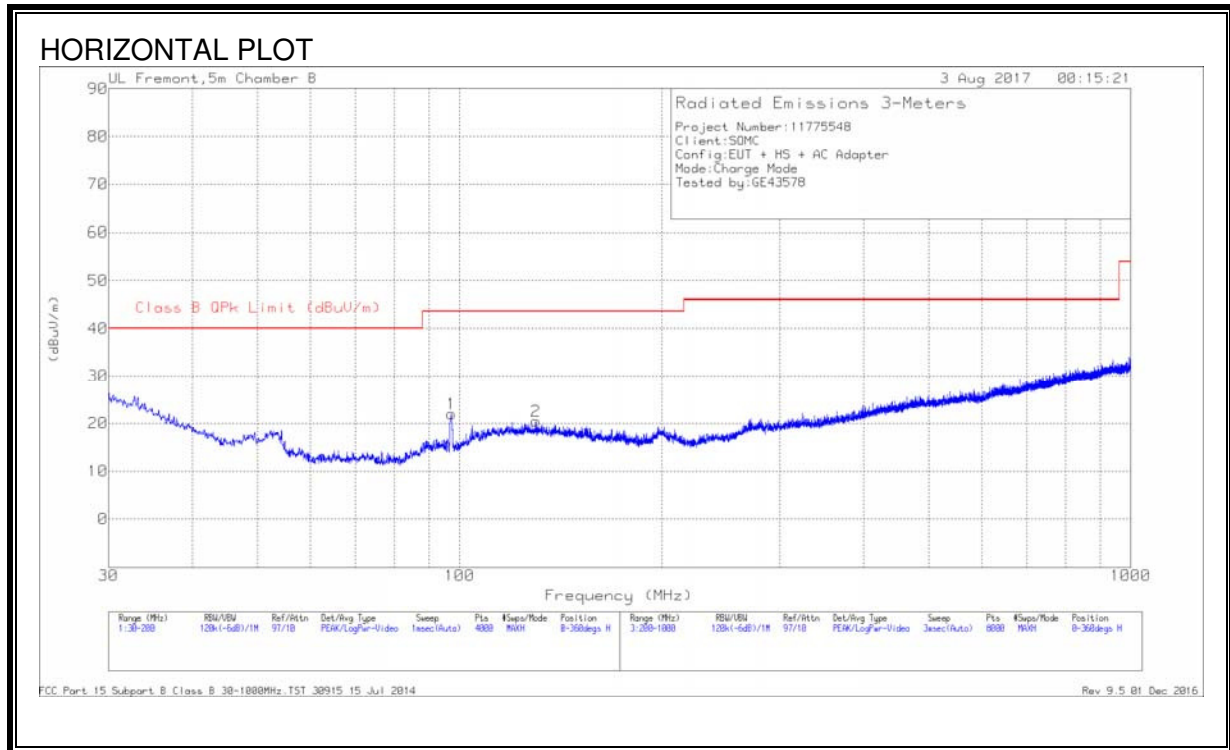
HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	27.002	45.83	Pk	35.5	-31.5	-9.5	40.33	54	-13.67	74	-33.67
2	33.559	47.8	Pk	37	-33.3	-9.5	42	54	-12	74	-32
3	37.599	50.13	Pk	37.1	-33.9	-9.5	43.83	54	-10.17	74	-30.17
4	26.179	45.17	Pk	35.6	-31.1	-9.5	40.17	54	-13.83	74	-33.83
5	28.354	45.3	Pk	35.8	-32.1	-9.5	39.5	54	-14.5	74	-34.5
6	36.807	50.27	Pk	37.1	-34.7	-9.5	43.17	54	-10.83	74	-30.83

Pk - Peak detector

7.2.5. RADIATED EMISSIONS 30 TO 1000 MHz (CHARGING MODE)



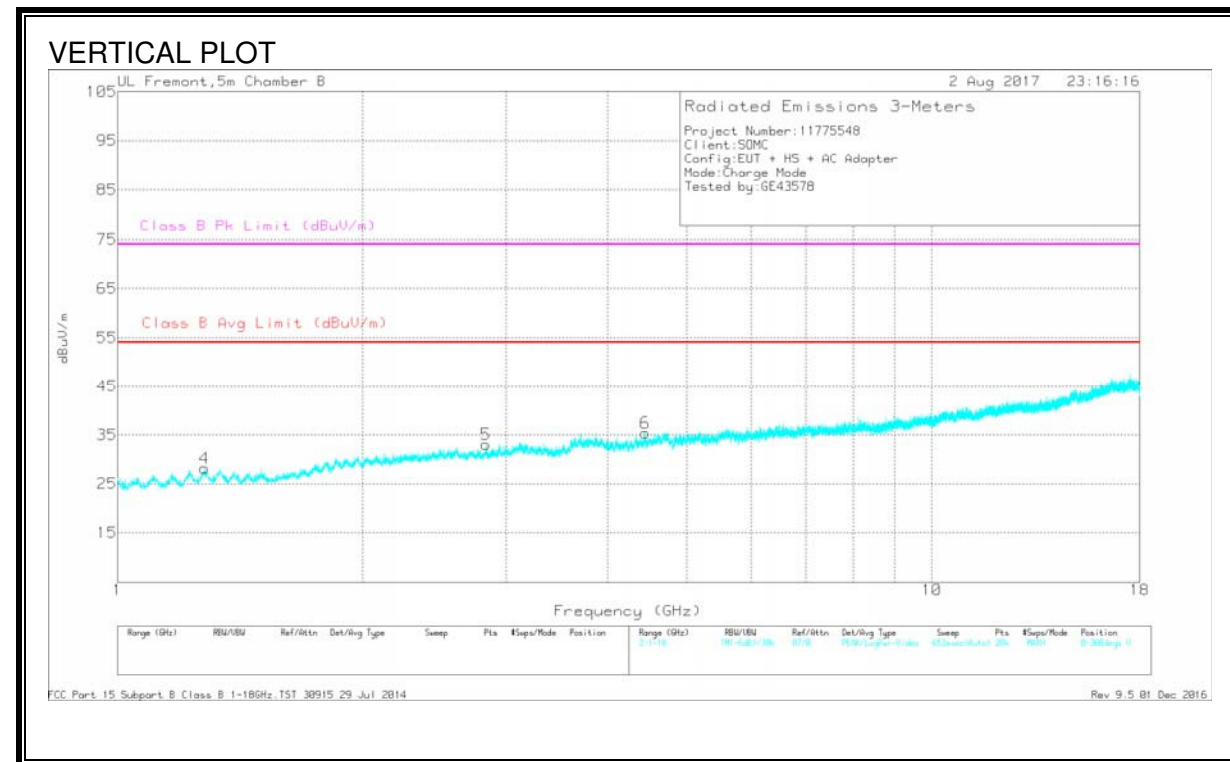
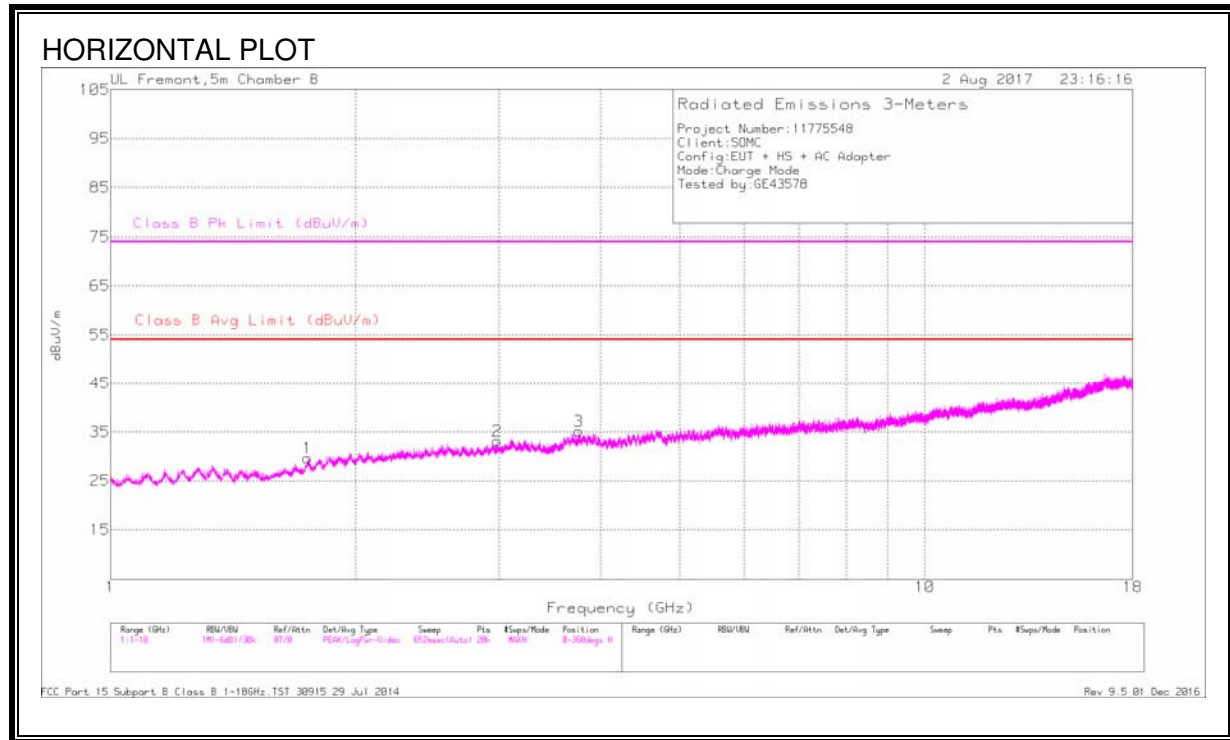
HORIZONTAL AND VERTICAL DATA

Radiated Emissions

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	34.6762	32.93	Pk	22.2	-28.7	26.43	40	-13.57	0-360	100	V
4	52.9985	37.89	Pk	10.9	-28.4	20.39	40	-19.61	0-360	100	V
5	78.8451	37	Pk	11.3	-28.2	20.1	40	-19.9	0-360	100	V
1	97.2099	36.47	Pk	13.5	-28	21.97	43.52	-21.55	0-360	400	H
2	129.8583	30.42	Pk	17.6	-27.6	20.42	43.52	-23.1	0-360	100	H
6	540.5443	30.96	Pk	22.1	-25.8	27.26	46.02	-18.76	0-360	100	V

Pk - Peak detector

7.2.6. RADIATED EMISSIONS 1GHz to 18GHz (CHARGING MODE)



HORIZONTAL AND VERTICAL DATA

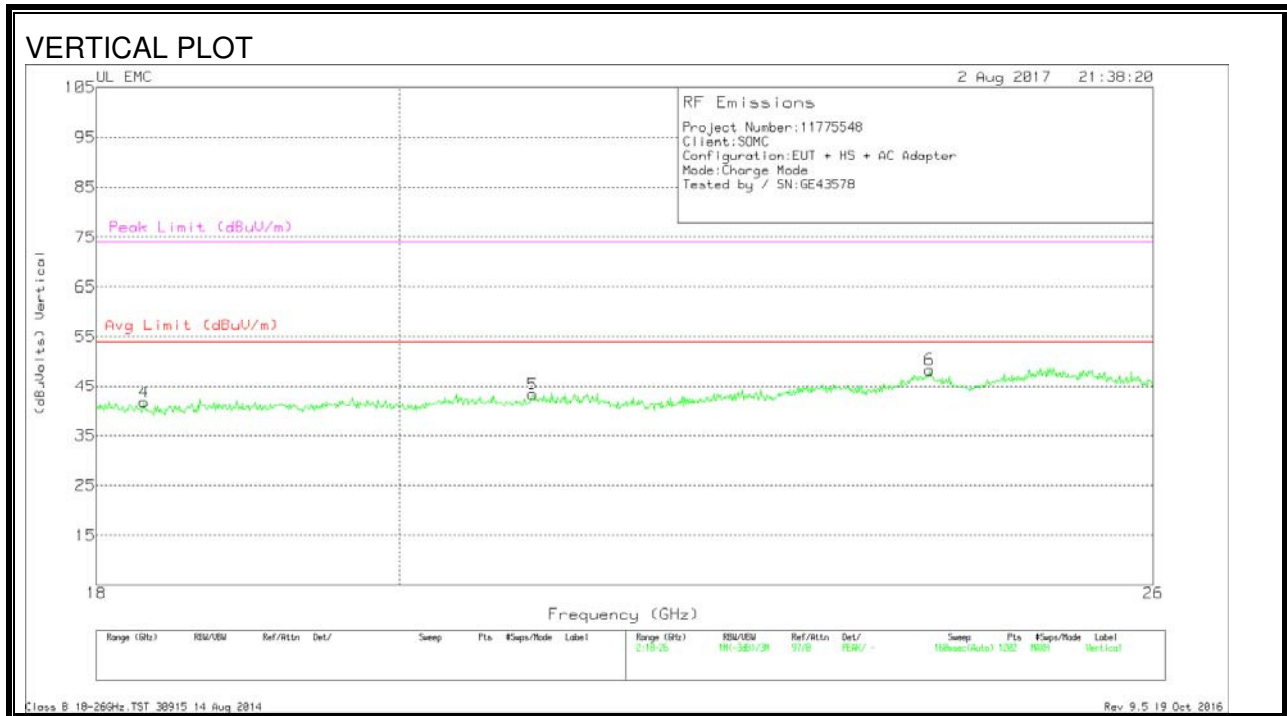
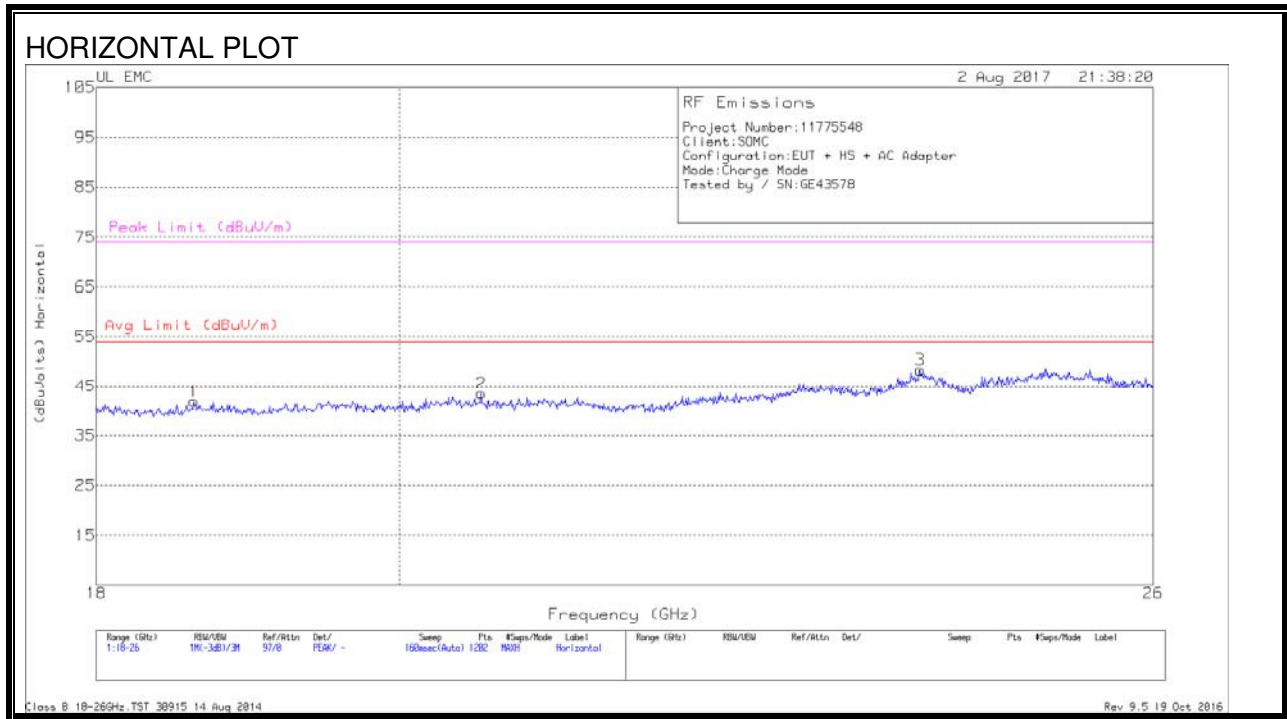
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.278	40.66	Pk	28.9	-34.1	35.46	-	-	74	-38.54	308	101	V
	1.278	28.45	Av	28.9	-34.1	23.25	54	-30.75	-	-	308	101	V
1	1.744	40.02	Pk	29.6	-33	36.62	-	-	74	-37.38	141	101	H
	1.744	27.75	Av	29.6	-33	24.35	54	-29.65	-	-	141	101	H
5	2.831	40.01	Pk	32.4	-31.9	40.51	-	-	74	-33.49	51	199	V
	2.831	26.53	Av	32.4	-31.9	27.03	54	-26.97	-	-	51	199	V
2	2.981	38.75	Pk	32.7	-31.5	39.95	-	-	74	-34.05	101	101	H
	2.981	26.04	Av	32.7	-31.5	27.24	54	-26.76	-	-	101	101	H
3	3.761	38.58	Pk	33.4	-30.9	41.08	-	-	74	-32.92	5	101	H
	3.761	26.66	Av	33.4	-30.9	29.16	54	-24.84	-	-	5	101	H
6	4.451	38.02	Pk	33.8	-30	41.82	-	-	74	-32.18	89	199	V
	4.451	26.01	Av	33.8	-30	29.81	54	-24.19	-	-	89	199	V

Pk - Peak detector

Av - Average detection

7.2.7. RADIATED EMISSIONS 18 to 26 GHz (CHARGING MODE)



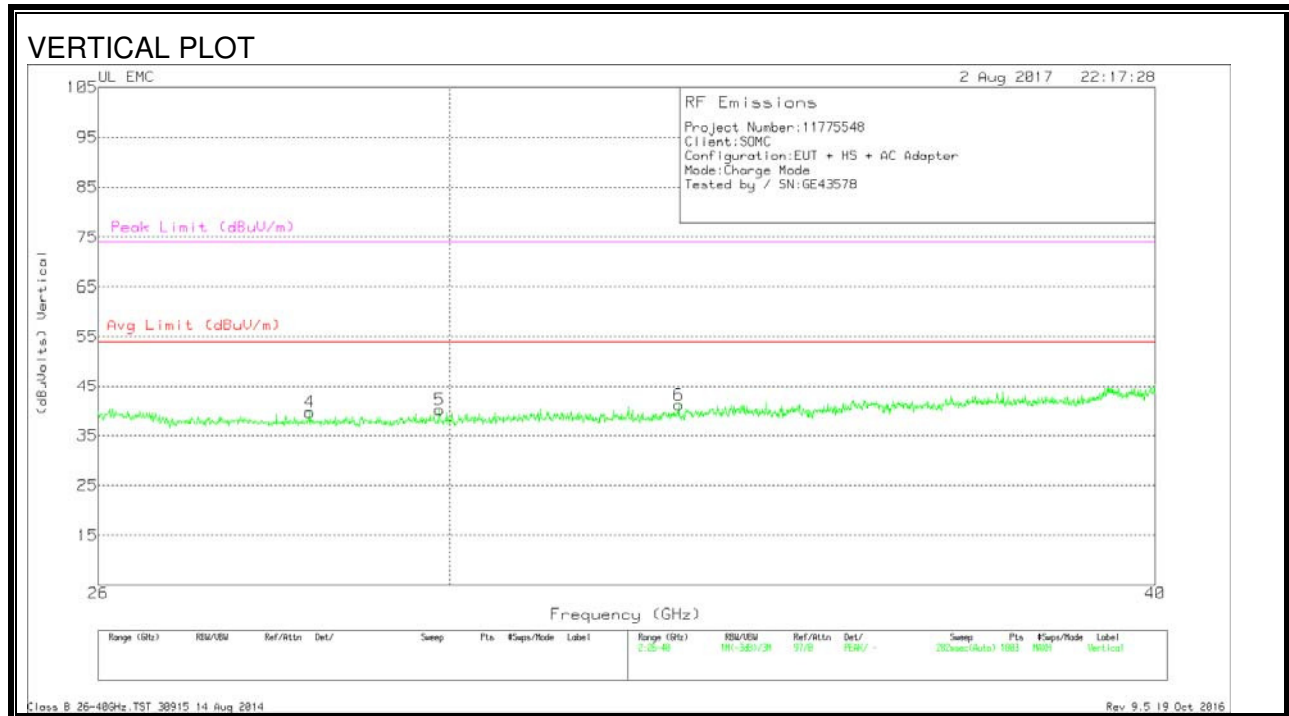
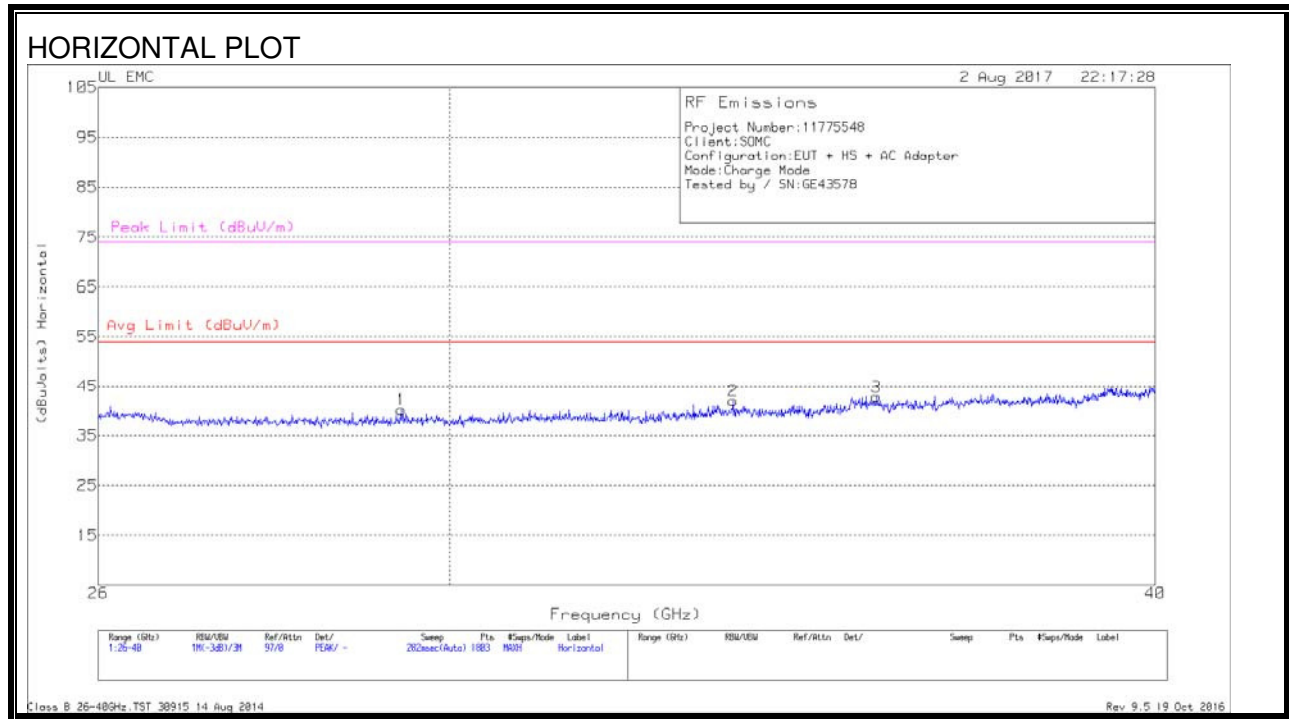
HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.619	41.03	Pk	32.3	-22	-9.5	41.83	54	-12.17	74	-32.17
2	20.578	41.6	Pk	33.1	-21.7	-9.5	43.5	54	-10.5	74	-30.5
3	23.975	43.83	Pk	33.9	-19.9	-9.5	48.33	54	-5.67	74	-25.67
4	18.3	41.47	Pk	32.2	-22.5	-9.5	41.67	54	-12.33	74	-32.33
5	20.951	41.53	Pk	33.2	-21.9	-9.5	43.33	54	-10.67	74	-30.67
6	24.055	44.13	Pk	33.9	-20.2	-9.5	48.33	54	-5.67	74	-25.67

Pk - Peak detector

7.2.8. RADIATED EMISSIONS 26 to 40 GHz (CHARGING MODE)



HORIZONTAL AND VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	29.418	46.27	Pk	35.9	-32.5	-9.5	40.17	54	-13.83	74	-33.83
2	33.676	48.2	Pk	36.9	-33.6	-9.5	42	54	-12	74	-32
3	35.704	49.23	Pk	37.3	-34.2	-9.5	42.83	54	-11.17	74	-31.17
4	28.339	45.37	Pk	35.8	-32	-9.5	39.67	54	-14.33	74	-34.33
5	29.877	46.67	Pk	36	-33	-9.5	40.17	54	-13.83	74	-33.83
6	32.938	47.47	Pk	36.7	-33.5	-9.5	41.17	54	-12.83	74	-32.83

Pk - Peak detector

7.3. AC MAINS LINE CONDUCTED EMISSIONS

RESULTS

Please refer to report "11760905-E8V2 FCC Report 15B", Section 6.3.