



FCC REPORT

Report Reference No. : **TRE1708017606** R/C.....: 29420
FCC ID : **2AM6Q-W1450**
Applicant's name : **GRUPO SOLONE SA DE CV**
Address : **AV. LOMAS DE SOTELO NO. 1112 PB, COL. LOMA HERMOSA, DEL. MIGUEL HIDALGO, CIUDAD DE MEXICO.**
Manufacturer : **GUANGDONG ENOK COMMUNICATION CO., LTD**
Address : **139&137Lixiang road ,Songmushan Dalang town, Dongguan, Guangdong China**
Test item description : **Smart Phone**
Trade Mark : **SOLONE**
Model/Type reference : **W1450**
Listed Model(s) : **-**
Standard : **47 CFR FCC Part 15 Subpart B - Unintentional Radiators ANSI C63.4: 2014**
Date of receipt of test sample : **Aug.25, 2017**
Date of testing : **Aug.26, 2017 - Sep.07, 2017**
Date of issue : **Sep.08, 2017**
Result : **Pass**

Compiled by
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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**
Address : **1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China**

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1. Test standards and Report version

1.1. Test Standards

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#) - Unintentional Radiators

[ANSI C63.4: 2014](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version

Version No.	Date of issue	Description
00	Sep.08, 2017	Original

2. Test Description

Test Item	FCC Rule	Result
Conducted Emissions Test	15.107	Pass
Radiated Emission Test	15.109	Pass

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	GRUPO SOLONE SA DE CV
Address:	AV. LOMAS DE SOTELO NO. 1112 PB,COL. LOMA HERMOSA, DEL. MIGUEL HIDALGO,CIUDAD DE MEXICO.
Manufacturer:	GUANGDONG ENOK COMMUNICATION CO.,LTD
Address:	139&137Lixiang road ,Songmushan Dalang town,Dongguan, Guangdong China

3.2. Product Description

Name of EUT:	Smart Phone
Trade Mark:	SOLONE
Model No.:	W1450
Listed Model(s):	-
IMEI:	911524550220641
Power supply:	DC 3.8V From internal battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.2A Output: 5Vd.c., 1A
Hardware version:	Ver.A
Software version:	M1701W1450V001

3.3. EUT operation mode

Test mode	Playing Video	Connect to PC (Down loading)	Camera	Adapter
1	■			■
2		■		
3			■	■

Note:

1. ■ is operation mode.

Pre-scan above all test mode, found below test mode which it was worse case mode.

Test item	Test mode (Worse case mode)
Conducted emission	Mode 2
Radiated emission	Mode 2

3.4. EUT configuration

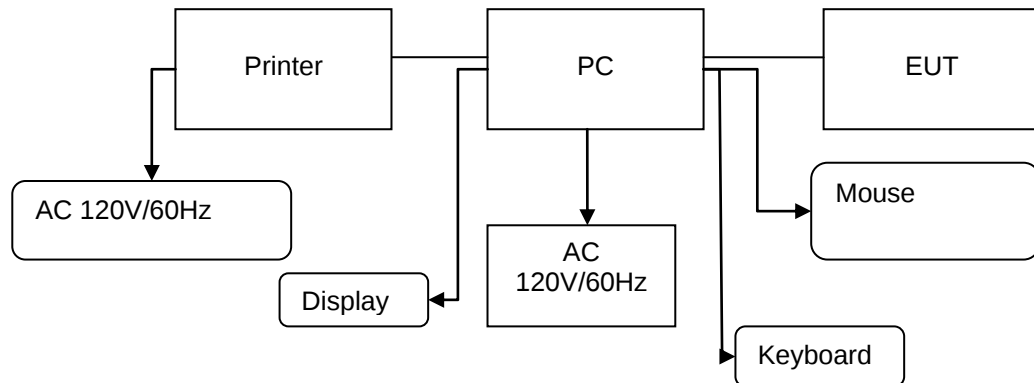
The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

	Length (m) :	
	Shield :	
	Detachable :	
	Manufacturer :	
	Model No. :	-

3.5. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/unshielded	Notes
1	PC	DELL	DIMENSION E520	1RNN42X	/	/	DOC
2	Printer	ESPOn	C3990	C3990A	/	/	DOC
3	Mouse	DELL	MO56U OA	G0E02SY7	1.00m	unshielded	DOC
4	Display	DELL	1707FPt	CN-OFC237-71618-65G-AAKC	/	/	DOC
5	Keyboard	DELL	L100	CNRH65665890726009L	/	/	DOC
6	USB Cable (EUT to PC)	ITALCOM GROUP	USB 2.0	N/A	0.80m	unshielded	N/A
7	USB Cable (Printer to PC)	Genshuo	USB 2.0	N/A	1.20m	unshielded	N/A
8	Power line	/	/	N/A	1.00m	unshielded	N/A

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235

IC-Registration No.: 5377B

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	Rohde & Schwarz	ESCI	100106	2016/11/13
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2016/11/13
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2016/11/13
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	N/A

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2016/11/13
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	MATURO	TT2.0	----	N/A
5	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
6	EMI TEST Software	Rohde & Schwarz	ESK1	N/A	N/A
7	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2016/11/13
8	Amplifer	Sonoma	310N	E009-13	2016/11/13
9	JS amplifer	Rohde & Schwarz	JS4-00101800-28-5A	F201504	2016/11/13
11	TURNTABLE	ETS	2088	2149	N/A
12	ANTENNA MAST	ETS	2075	2346	N/A
13	HORN ANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13

The calibration interval was one year.

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

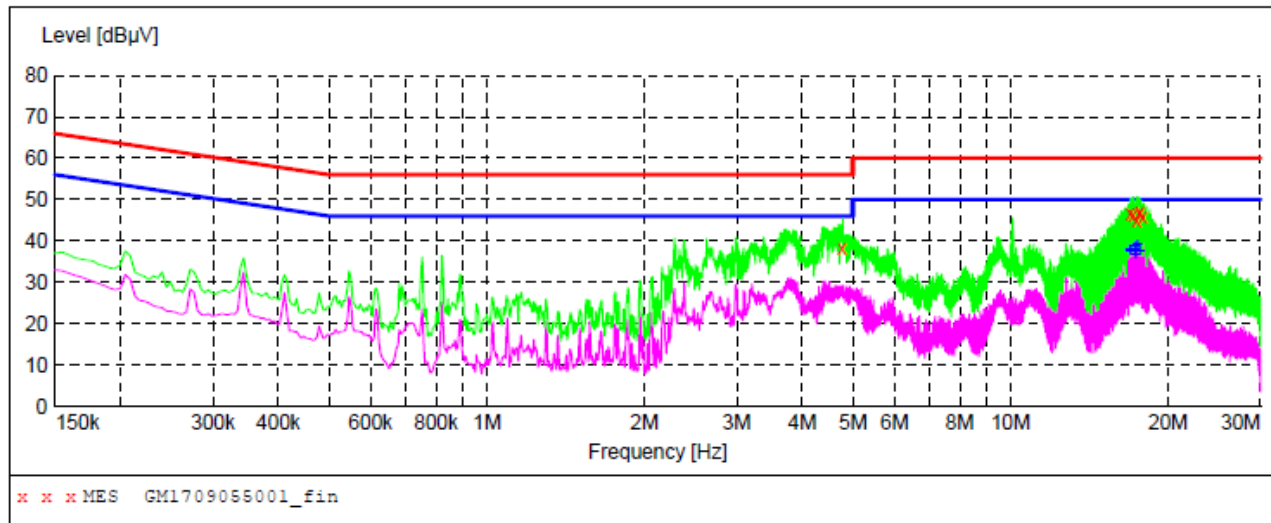
Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Line:

L

**MEASUREMENT RESULT: "GM1709055001_fin"**

9/5/2017 8:59AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
4.767000	38.40	10.3	56	17.6	QP	L1	GND
16.948500	46.50	10.5	60	13.5	QP	L1	GND
17.155500	46.20	10.5	60	13.8	QP	L1	GND
17.434500	44.80	10.5	60	15.2	QP	L1	GND
17.628000	46.80	10.5	60	13.2	QP	L1	GND
17.700000	46.90	10.5	60	13.1	QP	L1	GND
17.907000	45.70	10.5	60	14.3	QP	L1	GND

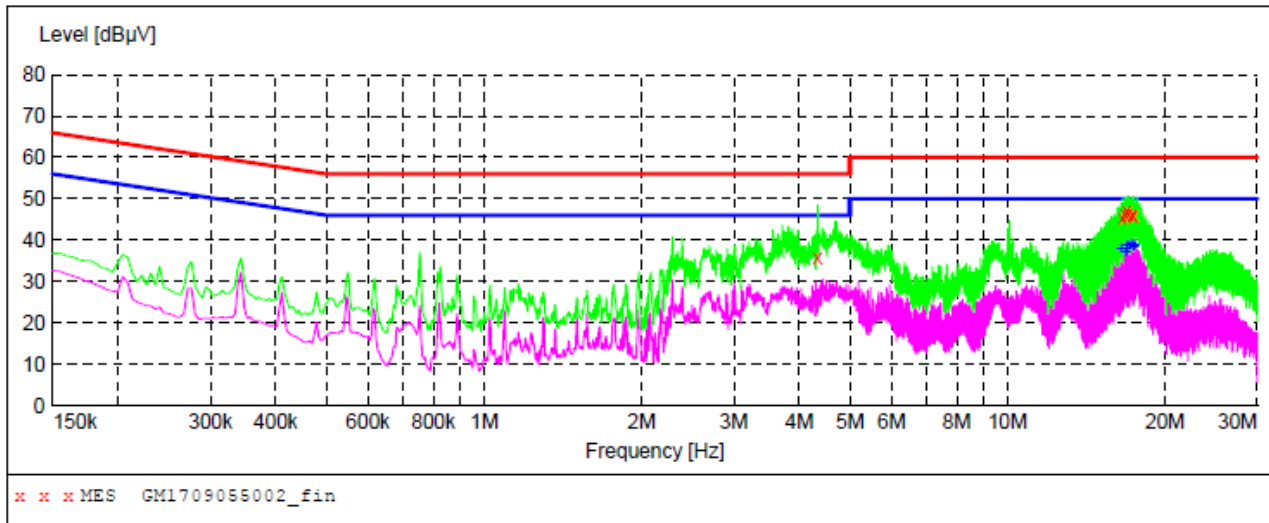
MEASUREMENT RESULT: "GM1709055001_fin2"

9/5/2017 8:59AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
16.881000	38.00	10.5	50	12.0	AV	L1	GND
16.944000	37.40	10.5	50	12.6	AV	L1	GND
17.218500	38.00	10.5	50	12.0	AV	L1	GND
17.295000	36.40	10.5	50	13.6	AV	L1	GND
17.353500	38.50	10.5	50	11.5	AV	L1	GND
17.493000	38.90	10.5	50	11.1	AV	L1	GND
17.628000	37.60	10.5	50	12.4	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM1709055002_fin"**

9/5/2017 9:02AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
4.339500	35.70	10.3	56	20.3	QP	N	GND
16.606500	45.40	10.5	60	14.6	QP	N	GND
16.809000	46.10	10.5	60	13.9	QP	N	GND
16.948500	46.90	10.5	60	13.1	QP	N	GND
17.011500	46.20	10.5	60	13.8	QP	N	GND
17.358000	46.40	10.5	60	13.6	QP	N	GND
17.430000	46.00	10.5	60	14.0	QP	N	GND

MEASUREMENT RESULT: "GM1709055002_fin2"

9/5/2017 9:02AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
16.467000	37.80	10.5	50	12.2	AV	N	GND
16.813500	37.20	10.5	50	12.8	AV	N	GND
16.881000	37.70	10.5	50	12.3	AV	N	GND
16.948500	38.70	10.5	50	11.3	AV	N	GND
17.218500	39.00	10.5	50	11.0	AV	N	GND
17.421000	38.40	10.5	50	11.6	AV	N	GND
17.493000	38.70	10.5	50	11.3	AV	N	GND

5.2. Radiated Emission Test

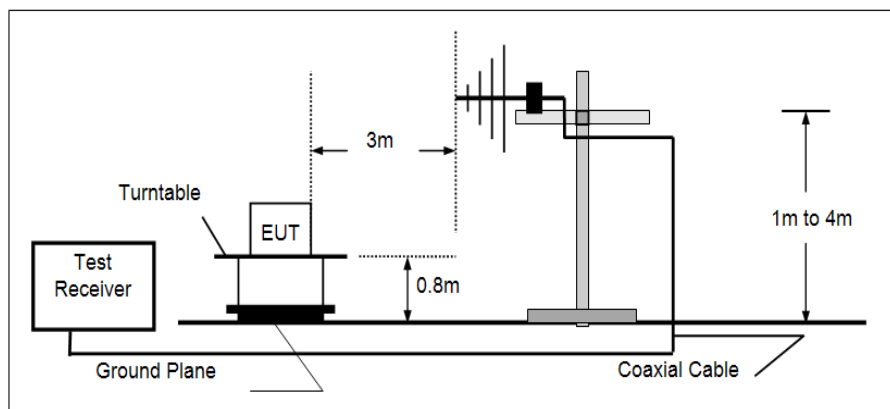
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

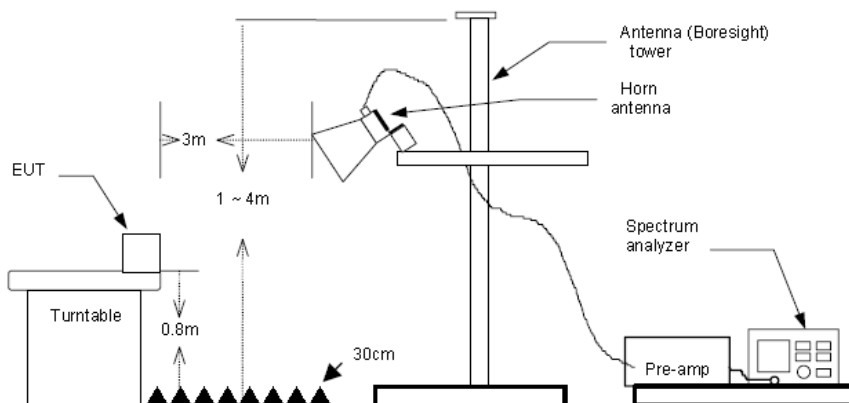
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using

the quasi-peak detector and reported.
(3) Above 1GHz, RBW=1MHz, VBW=3MHz

TEST MODE:

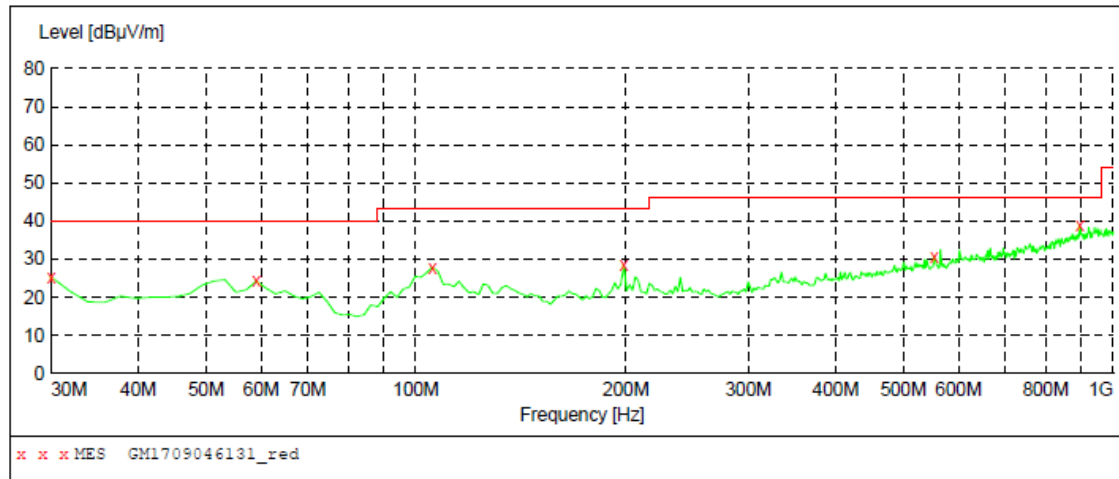
Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

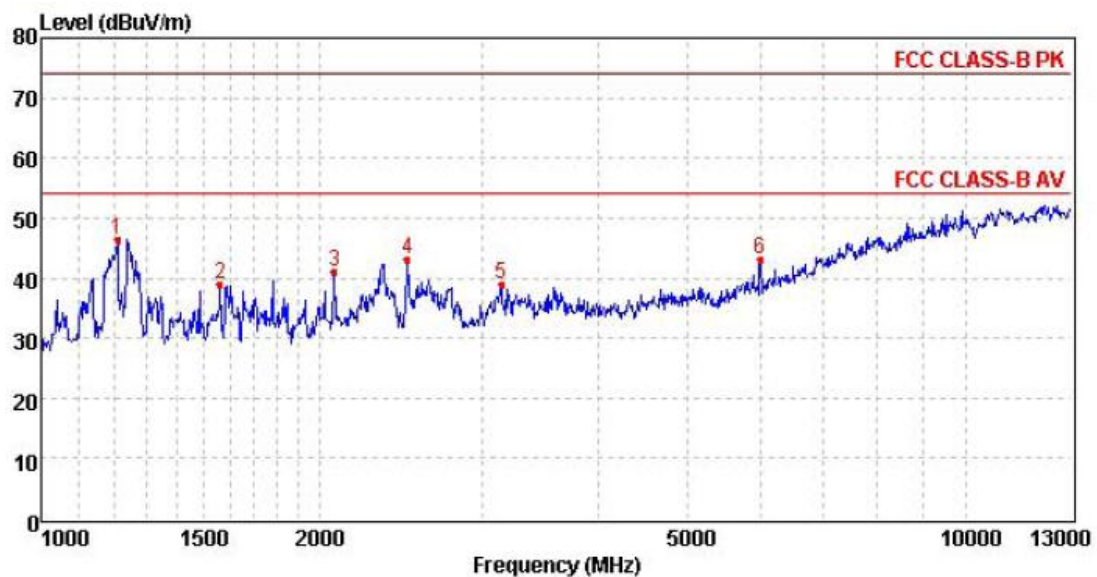
Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

➤ Vertical

**MEASUREMENT RESULT: "GM1709046131_red"**

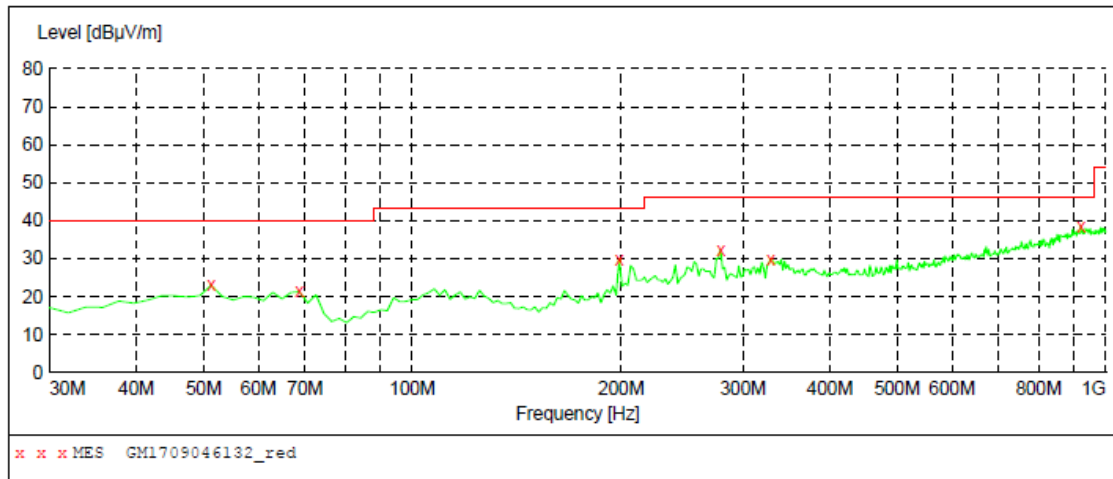
9/5/2017 12:17AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.40	-13.3	40.0	14.6	QP	100.0	55.00	VERTICAL
59.100000	24.30	-9.8	40.0	15.7	QP	100.0	360.00	VERTICAL
105.660000	27.90	-10.5	43.5	15.6	QP	100.0	55.00	VERTICAL
198.780000	28.40	-9.8	43.5	15.1	QP	100.0	214.00	VERTICAL
553.800000	30.70	-0.7	46.0	15.3	QP	100.0	162.00	VERTICAL
895.240000	38.80	6.6	46.0	7.2	QP	100.0	310.00	VERTICAL



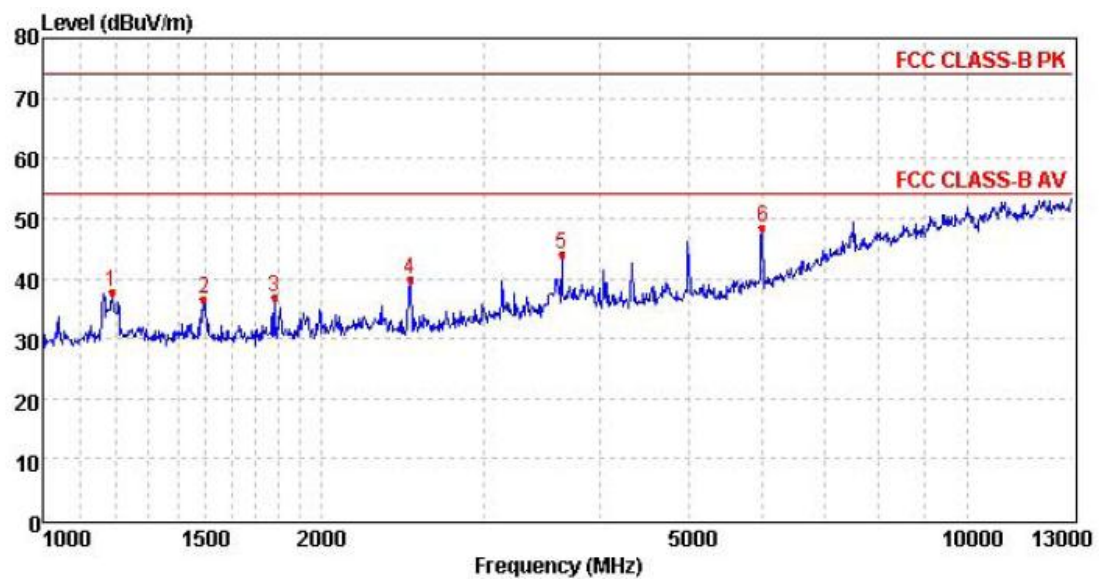
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1209.02	52.12	26.29	4.68	36.57	46.52	74.00	-27.48	Peak
2	1562.52	44.82	25.23	5.46	36.67	38.84	74.00	-35.16	Peak
3	2077.18	45.50	26.61	6.34	37.32	41.13	74.00	-32.87	Peak
4	2492.09	46.98	27.23	6.83	37.87	43.17	74.00	-30.83	Peak
5	3147.26	40.78	28.80	7.66	38.21	39.03	74.00	-34.97	Peak
6	5991.46	35.30	32.48	10.67	35.44	43.01	74.00	-30.99	Peak

➤ Horizontal

**MEASUREMENT RESULT: "GM1709046132_red"**

9/5/2017 12:20AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	23.10	-8.8	40.0	16.9	QP	300.0	166.00	HORIZONTAL
68.800000	21.40	-12.6	40.0	18.6	QP	300.0	360.00	HORIZONTAL
198.780000	29.90	-9.8	43.5	13.6	QP	100.0	130.00	HORIZONTAL
278.320000	32.30	-7.8	46.0	13.7	QP	100.0	118.00	HORIZONTAL
328.760000	29.90	-6.3	46.0	16.1	QP	100.0	186.00	HORIZONTAL
920.460000	38.50	7.0	46.0	7.5	QP	300.0	359.00	HORIZONTAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1187.50	43.60	26.20	4.63	36.58	37.85	74.00	-36.15	Peak
2	1492.02	42.19	25.81	5.26	36.58	36.68	74.00	-37.32	Peak
3	1780.89	42.85	25.36	5.92	37.10	37.03	74.00	-36.97	Peak
4	2498.49	43.73	27.21	6.84	37.87	39.91	74.00	-34.09	Peak
5	3642.73	44.57	29.30	8.32	38.26	43.93	74.00	-30.07	Peak
6	6006.85	40.71	32.50	10.68	35.44	48.45	74.00	-25.55	Peak

6. Test Setup Photos of the EUT

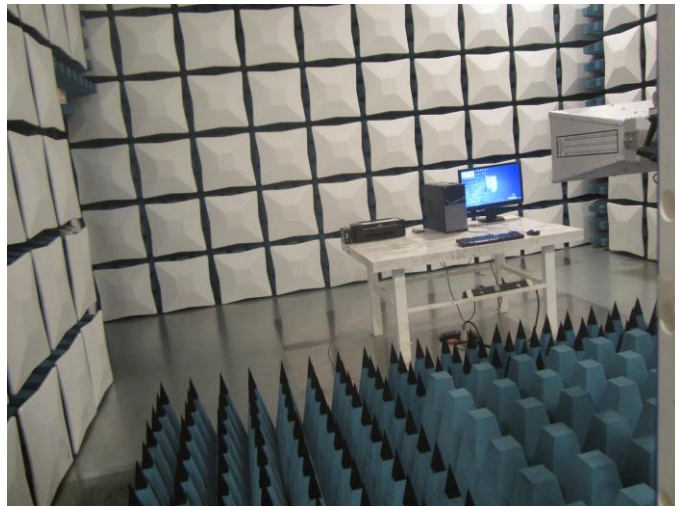
Conducted Emission Connect to PC



Radiated Emission (30MHz-1GHz) Connect to PC



Radiated Emission (above 1GHz) Connect to PC





7. External and Internal photos of the EUT

Reference to Test Report No.: TRE1708017601.

.....End of Report.....