
TEST REPORT

Report No.: SRTC2011-H024-E0031

Product Name: GSM/GPRS/EDGE/WCDMA

Digital Mobile Phone with Bluetooth and WiFi

Marketing Name: one touch 901S

Product Model: yippee 3G_S

Applicant: TCT Mobile Limited

Manufacture: TCT Mobile Limited

Specification: FCC Part15B (Certification)

(October 1, 2009 edition)

FCC ID: RAD162

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

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1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio_monitoring_center Testing Center (SRTC)
Address: No.80 Beilishi Road, Xicheng District, Beijing China
City: Beijing
Country or Region: China
Contacted person: Wang Junfeng
Tel: +86 10 68009181 +86 10 68009202
Fax: +86 10 68009195 +86 10 68009205
Email: wangjf@srrc.org.cn / wangjunfeng@srtc.org.cn

1.3 Applicant's details

Company: TCT Mobile Limited
Address: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Grantee Code: RAD
Contacted Person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@jrdcom.com

1.4 Manufacturer's details

Company: TCT Mobile Limited
Address: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Contacted Person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@jrdcom.com

1.5 Application details

Date of reception of test sample: 8th Mar 2011

Date of test: 9th Mar 2011 to 12th Apr 2011

1.6 Reference specification

FCC Part 15B October 1, 2009 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth and WiFi
FCC ID	RAD162
Frequency range	GSM850: Tx:824~849MHz Rx:869~894MHz PCS1900: Tx:1850~1910MHz Rx:1930~1990MHz WCDMA Band IV: Tx:1710-1755MHz Rx:2110-2155MHz
Rated output power	GSM850:33.0dBm PCS1900:30.0dBm WCDMA:24.0dBm
E.R.P. & E.I.R.P.	E.R.P.: 31.0dBm E.I.R.P.: 27.6dBm
Modulation type	GSM/GPRS:GMSK EDGE: GMSK(Uplink direction) 8PSK(Downlink direction) WCDMA:QPSK
Emission Designator	GSM:300KGXW GPRS/EDGE:300KG7W WCDMA:4M50F9W
Duplex mode	FDD
Equipment Class	Class B
Duplex spacing	GSM850:45MHz PCS1900:80MHz WCDMA Band IV:400MHz
Antenna type	Integral
Power Supply	Battery or charger
Rated Power Supply Voltage	3.8V
Extreme Temperature	Lowest: -30°C Highest: +50°C
Extreme Voltage	Minimum: 3.5V Maximum: 4.2V
HW Version	PIO2
SW Version	sw523

1.7.2 EUT details

Product Name	Marketing Name	Product Model	IMEI
GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth and WiFi	one touch 901S	yippee 3G_S	012614000010250

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Charger

Equipment	Charger
Manufacturer	Ten Pao International Ltd.
Model Number	CBA3120AG0C2
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 2#: Charger

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	CBA3001AG0C1
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 3#: Battery

Equipment	Battery
Manufacturer	BYD LITHIUM BATTERY CO., LTD.
Model Number	CAB31L0000C1
Capacity	1000mAh
Rated Voltage	3.7V d.c.

AE (Auxiliary Equipment) 4#: Battery

Equipment	Battery
Manufacturer	SHENZHEN BAK BATTERY CO., LTD
Model Number	CAB31L0000C2
Capacity	1000mAh
Rated Voltage	3.7V d.c.

AE (Auxiliary Equipment) 5#: Data Cable

Equipment	Data Cable
Manufacturer	Shen Zhen Ju Wei Electronic Co.,LTD
Model Number	CDA3122001C1

AE (Auxiliary Equipment) 6#: Data Cable

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co.,Ltd
Model Number	CDA3122001C2

AE (Auxiliary Equipment) 7#: Headset

Equipment	Headset
Manufacturer	HuiZhou Lianyun Electronic Technology Co.,Ltd
Model Number	CCB3160A10C2

AE (Auxiliary Equipment) 8#: Headset

Equipment	Headset
Manufacturer	Shen Zhen Ju Wei Electronic Co.,LTD
Model Number	CCB3160A10C0

Note:

All the auxiliary equipments have been labeled with number in order to identify the test sample.

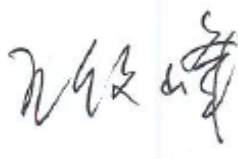
As the information described above, there are two different models of battery manufactured by two different companies, and two different models of headset manufactured by two different companies.

The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of battery and one model of headset) the EUT would have the worst features. So all the tests except conducted emissions (please refer to the section 2.2.1 for details) shown in this test report are performed when the EUT exercised by the the battery CAB31L0000C1 and the headset CCB3160A10C2.

2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Conducted emissions	15.107	Pass
2	Radiated emissions	15.109	Pass

This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab 	Checked by: Mr. Wang Junfeng Deputy director of the test lab 
Tested by: Mr. Wang Zheng Test engineer 	Issued date: 2011.05.20

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
23.2°C	46%	99.9kPa

Test Setup:

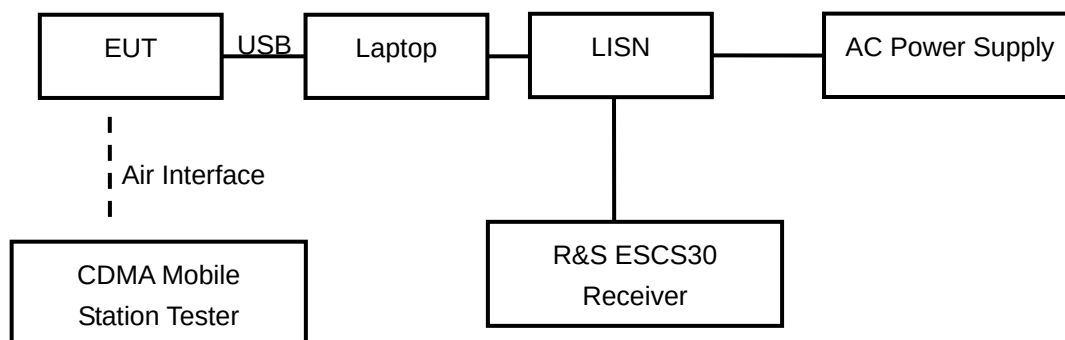


Figure 1

Test Procedure:

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The EUT connect with a laptop via the USB cable. The accessories of the EUT are connected with the EUT such as headset etc. During the test the data transferring via USB cable between EUT and laptop is maintained.

The AC main power supply of the laptop is connected to LISN and LISN is connected to the reference ground. The test set-up and the test methods are performed according to ANSI C63.4:2009.

Then start the test software ES-K1. Sweep the whole frequency band through the range from 150 KHz to 30 MHz. The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.

The data of cable loss has been calibrated in full testing frequency range before the testing.

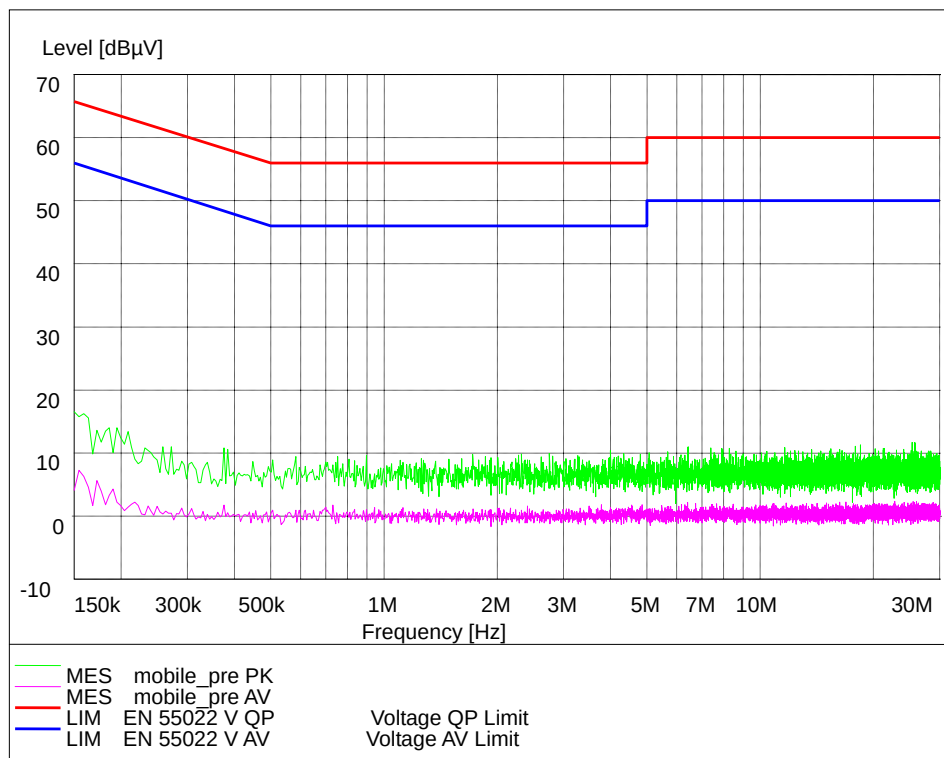
Limit:

Frequency of Emission(MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15~0.5	66 to 56*	56 to 46*
0.5~5	56	46
5~30	60	50

Note: * Decreases with the logarithm of the frequency

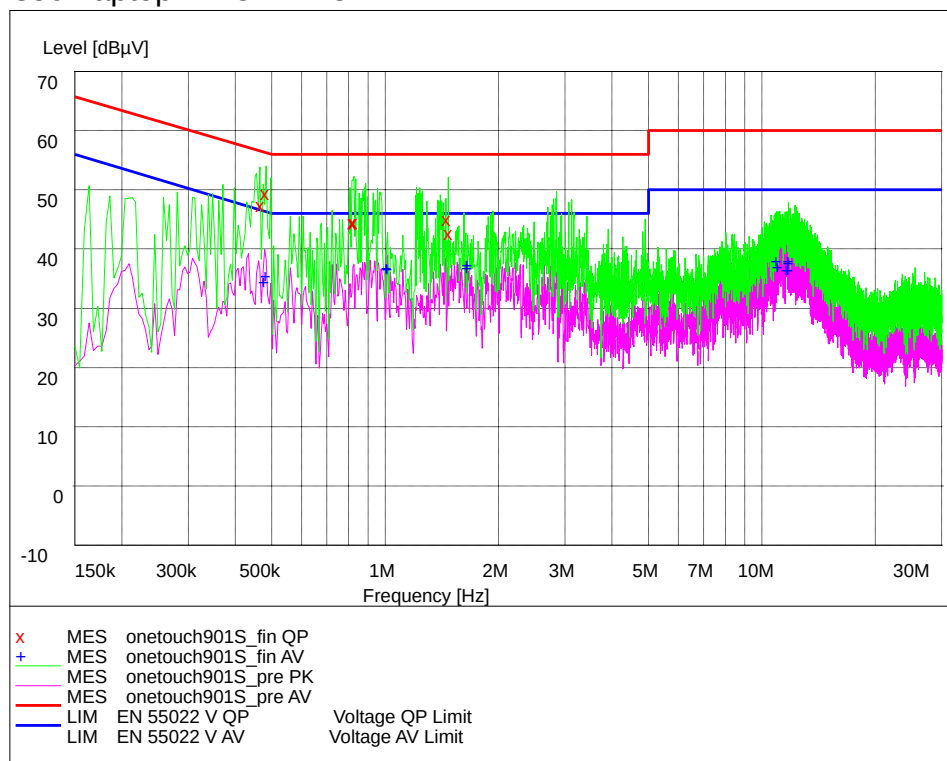
Test result:

Noise Level of the Measuring Instrument



L and N Line

GSM 850 Laptop+AE3#+AE5#+AE7#



L and N Line

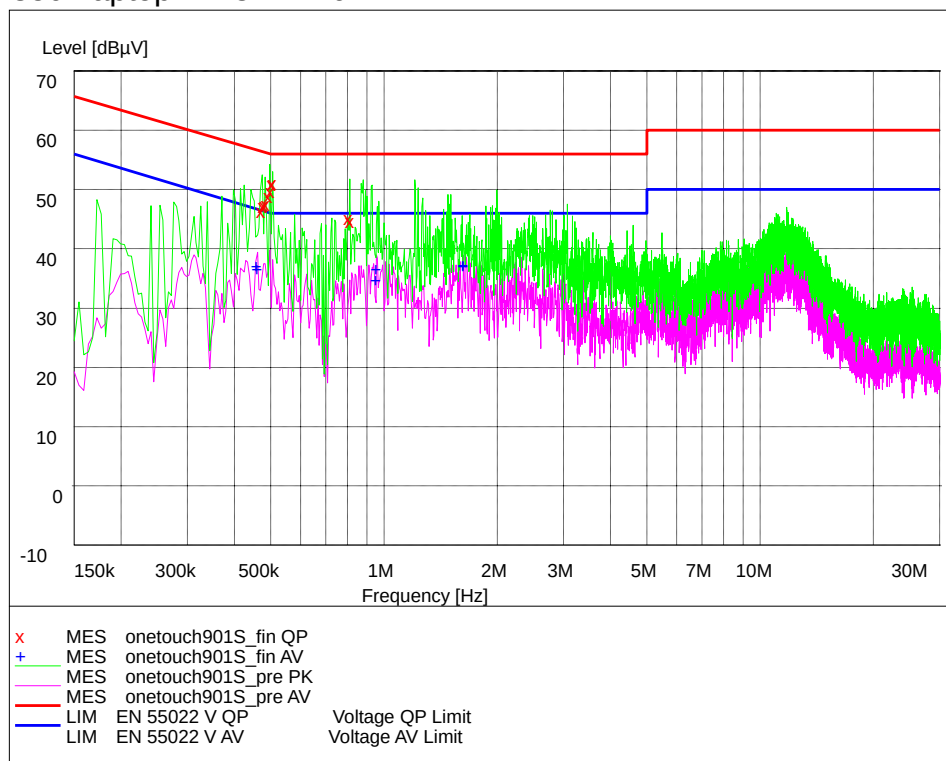
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.477000	36.20	20.3	46	10.2	L1	GND
0.482500	37.20	20.3	46	9.0	L1	GND
1.012500	38.60	20.2	46	7.4	N	GND
1.014000	38.30	20.2	46	7.7	N	GND
1.652000	38.60	20.2	46	7.4	L1	GND
1.654500	39.00	20.2	46	7.0	N	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.460500	48.50	20.3	57	8.2	L1	GND
0.485000	52.10	20.3	56	4.1	N	GND
0.823500	46.30	20.3	56	9.7	L1	GND
0.826000	46.10	20.3	56	9.9	N	GND
1.460000	46.80	20.2	56	9.2	L1	GND
1.479500	44.40	20.2	56	11.6	L1	GND

GSM 850 Laptop+AE3#+AE6#+AE7#



L and N Line

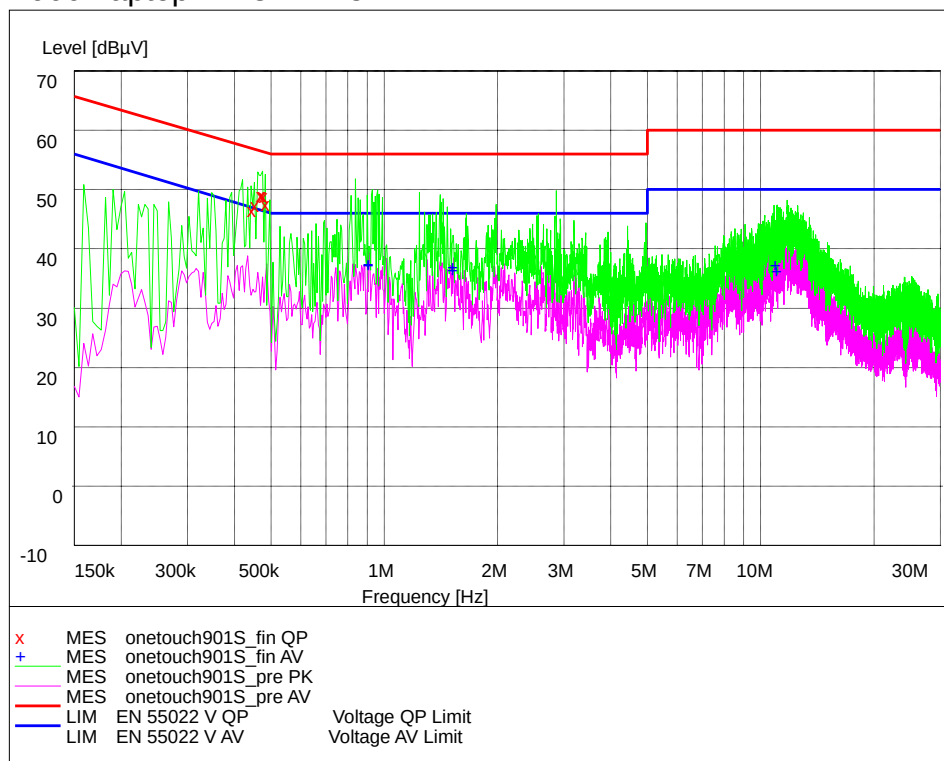
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.459000	38.80	20.3	47	7.9	N	GND
0.460500	38.40	20.3	47	8.3	L1	GND
0.955000	36.50	20.2	46	9.5	N	GND
0.957000	38.30	20.2	46	7.7	L1	GND
1.625000	38.90	20.2	46	7.1	N	GND
1.626500	39.10	20.2	46	6.9	L1	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.482000	49.20	20.3	56	7.1	L1	GND
0.487500	49.30	20.3	56	6.9	N	GND
0.501000	51.50	20.3	56	4.5	L1	GND
0.505000	52.70	20.3	56	3.3	N	GND
0.808500	46.90	20.3	56	9.1	L1	GND
0.815500	46.30	20.3	56	9.7	L1	GND

GSM 1900 Laptop+AE3#+AE5#+AE7#



L and N Line

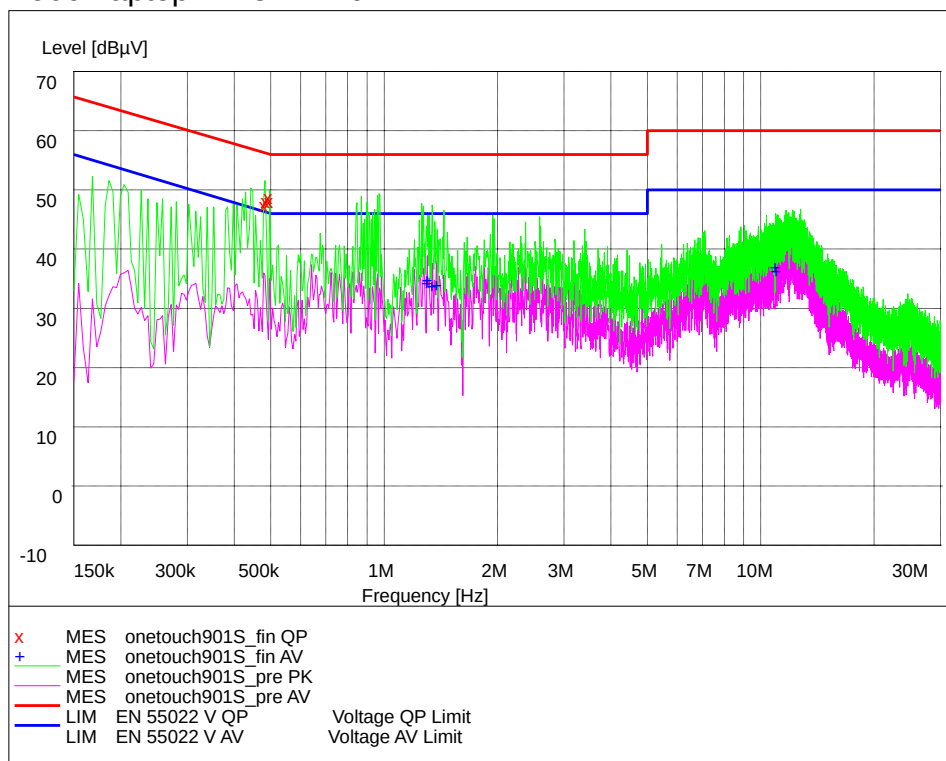
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.910000	39.10	20.2	46	6.9	N	GND
0.910500	39.20	20.2	46	6.8	L1	GND
1.525000	38.70	20.2	46	7.3	N	GND
1.527000	38.20	20.2	46	7.8	L1	GND
10.953000	39.00	20.7	50	11.0	N	GND
11.054000	38.00	20.7	50	12.0	L1	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.447000	48.30	20.3	57	8.6	L1	GND
0.456000	49.10	20.3	57	7.7	L1	GND
0.473500	50.90	20.3	56	5.6	N	GND
0.476500	50.90	20.3	56	5.4	L1	GND
0.481000	50.60	20.3	56	5.7	N	GND
0.487000	49.30	20.3	56	6.9	L1	GND

GSM 1900 Laptop+AE3#+AE6#+AE7#



L and N Line

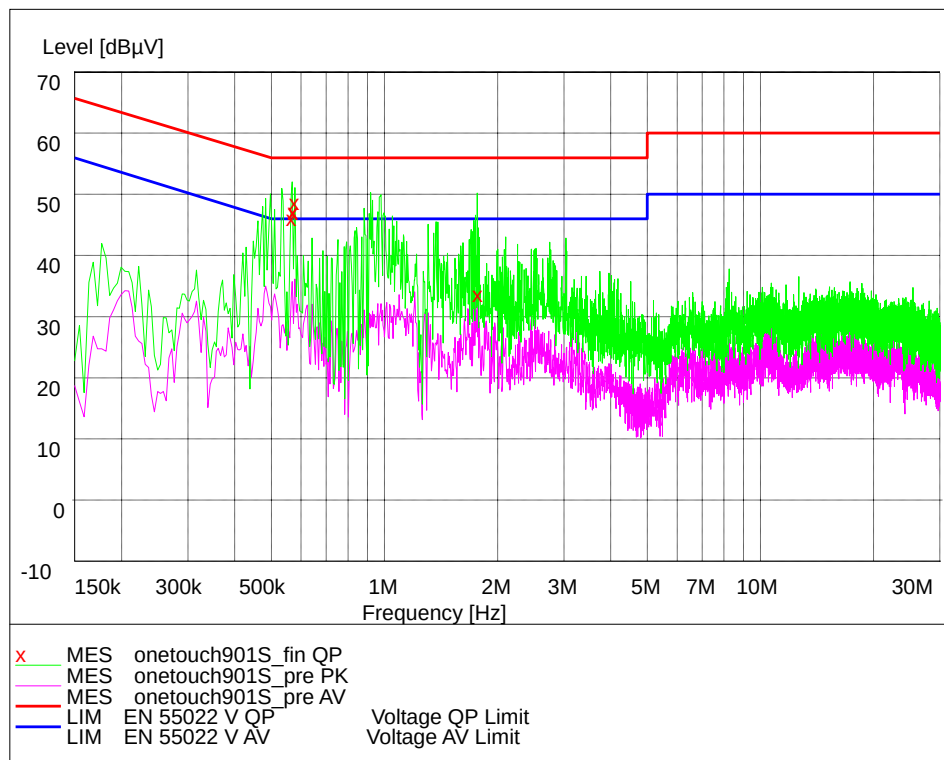
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
1.301000	36.00	20.2	46	10.0	N	GND
1.307000	36.60	20.2	46	9.4	L1	GND
1.345000	35.50	20.2	46	10.5	N	GND
1.384000	35.70	20.2	46	10.3	L1	GND
10.961500	38.80	20.7	50	11.2	N	GND
11.023000	38.00	20.7	50	12.0	L1	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.482500	49.20	20.3	56	7.1	N	GND
0.487000	49.80	20.3	56	6.4	N	GND
0.495000	50.60	20.3	56	5.5	L1	GND
0.497500	49.80	20.3	56	6.2	N	GND

WCDMA BAND IV Laptop+AE3#+AE5#+AE7#

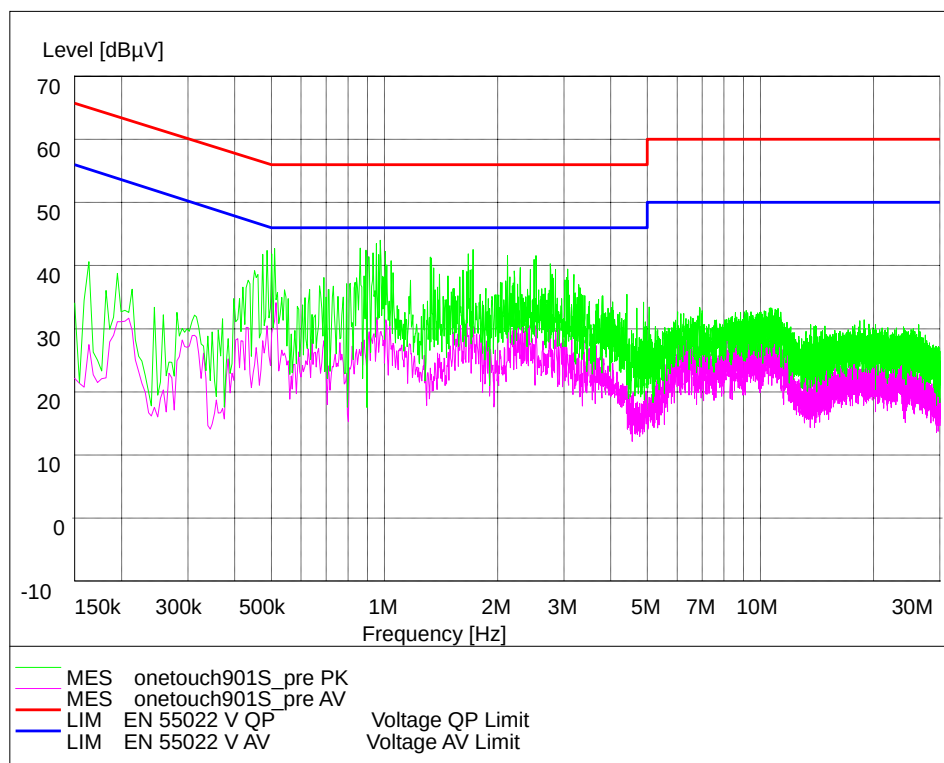


L and N Line

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.567500	47.70	20.3	56	8.3	N	GND
0.572000	48.80	20.3	56	7.2	N	GND
0.572500	48.70	20.3	56	7.3	L1	GND
0.578500	50.40	20.3	56	5.6	N	GND
1.772500	35.30	20.2	56	20.7	L1	GND

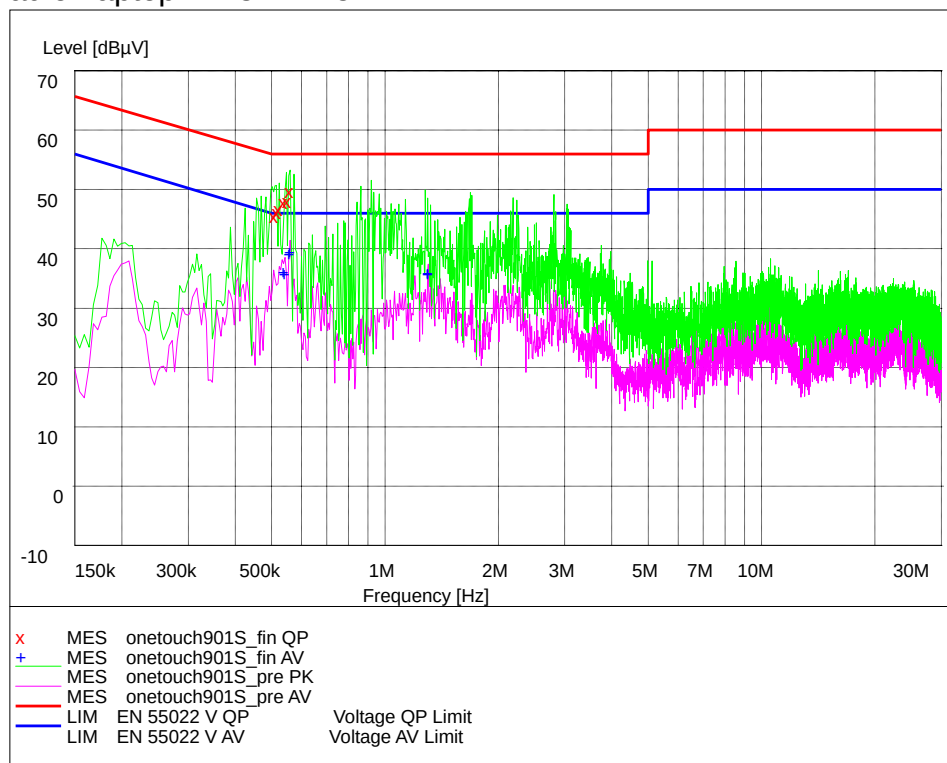
WCDMA BAND IV Laptop+AE3#+AE6#+AE7#



L and N Line

Note: Measuring instruments' noise level refers to the figure of "Noise Level of the Measuring Instrument".

FM Radio Laptop+AE3#+AE5#+AE7#



L and N Line

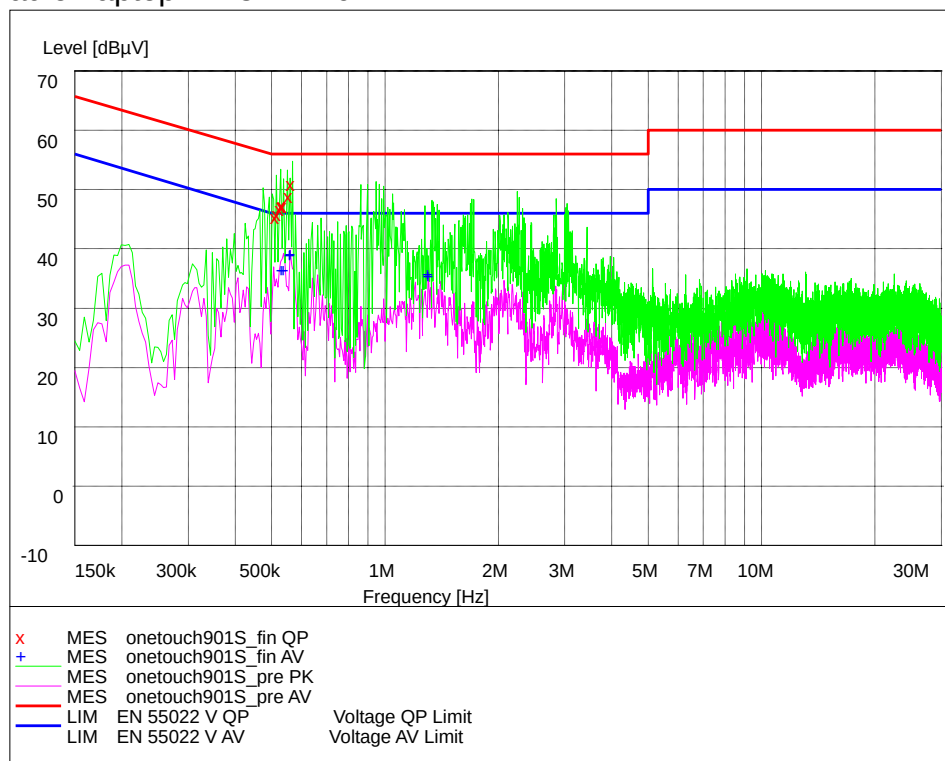
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.539500	37.90	20.3	46	8.1	N	GND
0.542000	37.40	20.3	46	8.6	L1	GND
0.558500	40.90	20.3	46	5.1	N	GND
0.559500	41.20	20.3	46	4.8	N	GND
1.301000	37.50	20.2	46	8.5	L1	GND
1.302000	37.70	20.2	46	8.3	N	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.509500	47.20	20.3	56	8.8	L1	GND
0.519500	48.00	20.3	56	8.0	N	GND
0.523000	48.50	20.3	56	7.5	N	GND
0.528000	48.90	20.3	56	7.1	L1	GND
0.541000	49.70	20.3	56	6.3	N	GND
0.551000	49.80	20.3	56	6.2	L1	GND

FM Radio Laptop+AE3#+AE6#+AE7#



L and N Line

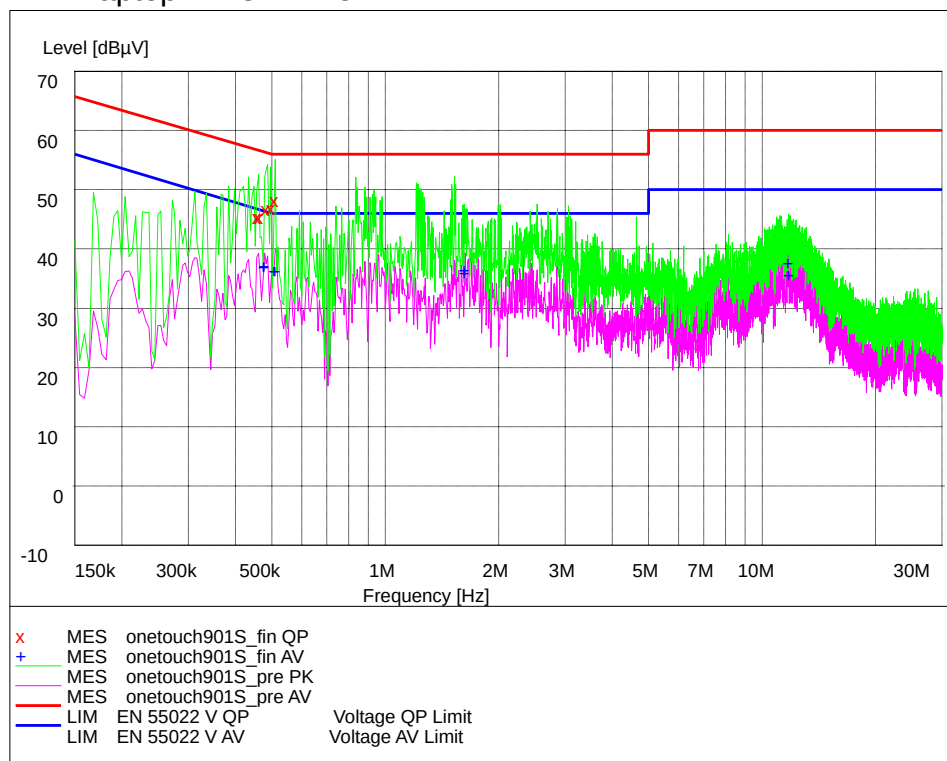
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.532000	38.20	20.3	46	7.8	N	GND
0.539000	38.20	20.3	46	7.8	L1	GND
0.559000	40.60	20.3	46	5.4	L1	GND
0.560500	40.80	20.3	46	5.2	N	GND
1.301000	37.50	20.2	46	8.5	N	GND
1.303500	37.20	20.2	46	8.8	L1	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.512500	47.10	20.3	56	8.9	N	GND
0.519500	47.60	20.3	56	8.4	L1	GND
0.527500	48.50	20.3	56	7.5	L1	GND
0.532000	49.00	20.3	56	7.0	N	GND
0.534000	49.10	20.3	56	6.9	N	GND
0.537500	48.90	20.3	56	7.1	L1	GND

MP3/MP4 Laptop+AE3#+AE5#+AE7#



L and N Line

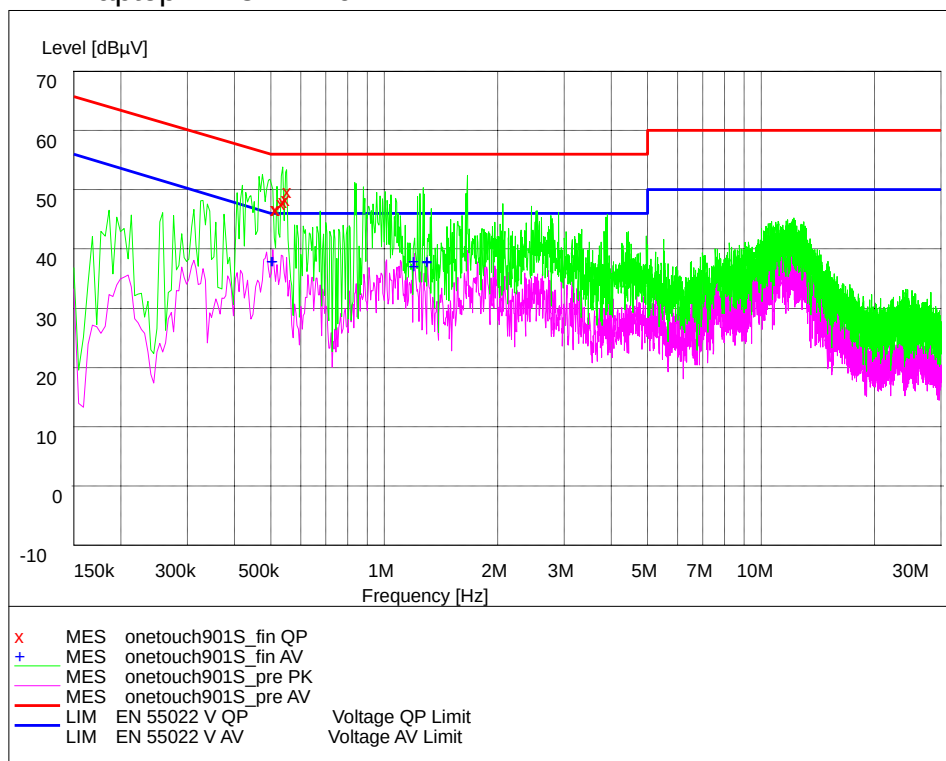
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.477500	38.70	20.3	46	7.7	N	GND
0.478500	38.90	20.3	46	7.4	L1	GND
0.509000	38.10	20.3	46	7.9	N	GND
0.511500	38.00	20.3	46	8.0	N	GND
1.625500	37.60	20.2	46	8.4	L1	GND
1.626000	38.20	20.2	46	7.8	N	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.460000	47.10	20.3	57	9.6	L1	GND
0.464500	47.10	20.3	57	9.5	N	GND
0.484500	48.40	20.3	56	7.9	N	GND
0.492000	48.50	20.3	56	7.7	L1	GND
0.500000	48.60	20.3	56	7.4	L1	GND
0.509500	50.00	20.3	56	6.0	N	GND

MP3/MP4 Laptop+AE3#+AE6#+AE7#



L and N Line

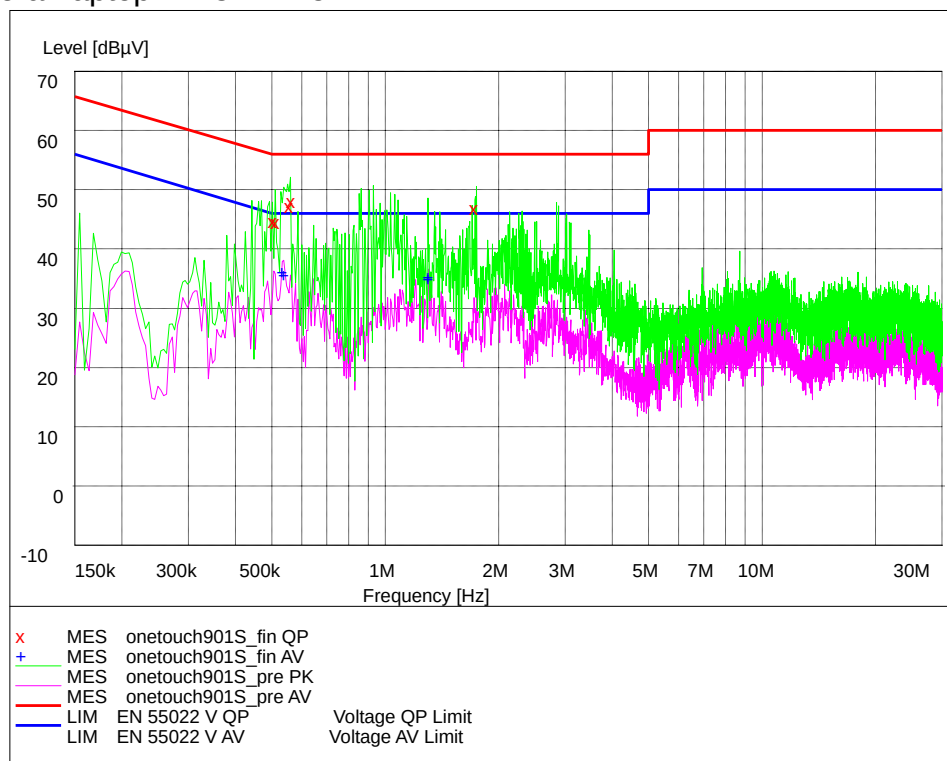
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.504500	39.60	20.3	46	6.4	N	GND
0.506500	39.60	20.3	46	6.4	L1	GND
1.200000	39.60	20.2	46	6.4	N	GND
1.203500	38.90	20.2	46	7.1	N	GND
1.301500	39.50	20.2	46	6.5	L1	GND
1.302500	39.60	20.2	46	6.4	N	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.516500	48.40	20.3	56	7.6	N	GND
0.519500	48.50	20.3	56	7.5	N	GND
0.536500	49.60	20.3	56	6.4	N	GND
0.542000	49.80	20.3	56	6.2	L1	GND
0.549500	50.30	20.3	56	5.7	L1	GND
0.556000	51.60	20.3	56	4.4	N	GND

Camera Laptop+AE3#+AE5#+AE7#



L and N Line

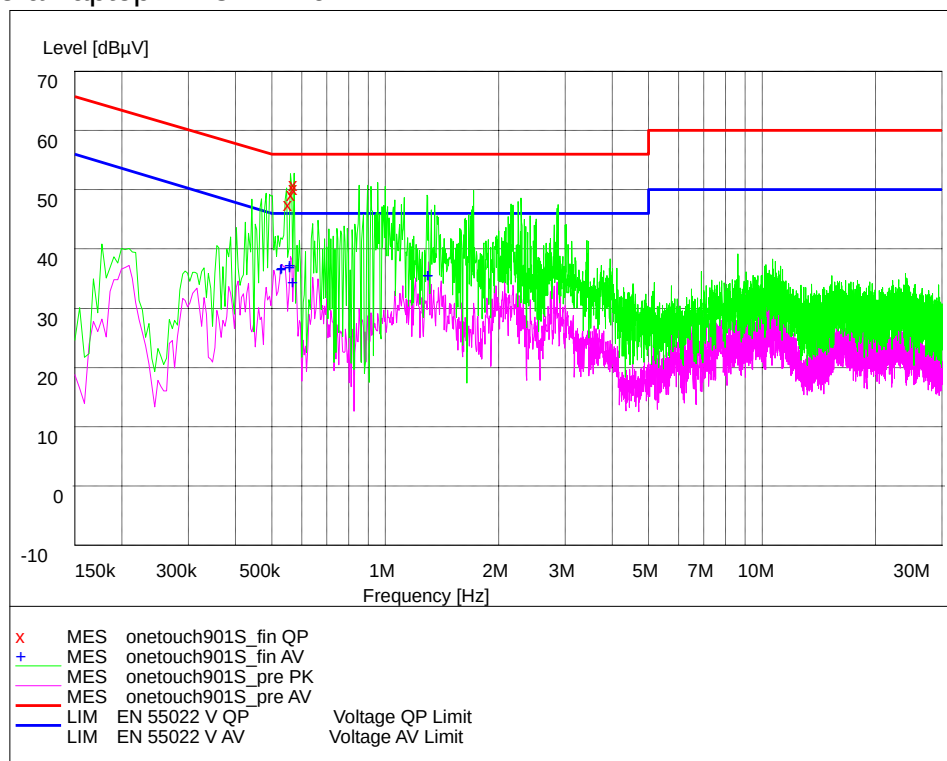
MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.533500	37.90	20.3	46	8.1	N	GND
0.539500	37.30	20.3	46	8.7	L1	GND
1.301500	36.70	20.2	46	9.3	N	GND
1.303000	37.10	20.2	46	8.9	N	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.505000	46.40	20.3	56	9.6	N	GND
0.512500	46.30	20.3	56	9.7	L1	GND
0.558500	49.00	20.3	56	7.0	L1	GND
0.565000	49.90	20.3	56	6.1	N	GND
1.727000	48.60	20.2	56	7.4	L1	GND

Camera Laptop+AE3#+AE6#+AE7#



L and N Line

MEASUREMENT RESULT: "onetouch901S_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.531500	38.40	20.3	46	7.6	N	GND
0.532500	38.50	20.3	46	7.5	L1	GND
0.559000	39.10	20.3	46	6.9	L1	GND
0.560000	38.70	20.3	46	7.3	L1	GND
0.570000	36.20	20.3	46	9.8	N	GND
1.301000	37.30	20.2	46	8.7	N	GND

MEASUREMENT RESULT: "onetouch901S_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.555500	49.40	20.3	56	6.6	N	GND
0.564500	51.00	20.3	56	5.0	L1	GND
0.572000	52.70	20.3	56	3.3	L1	GND
0.573500	52.00	20.3	56	4.0	L1	GND

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
22.6°C	46.3%	101.3kPa

Test Setup:

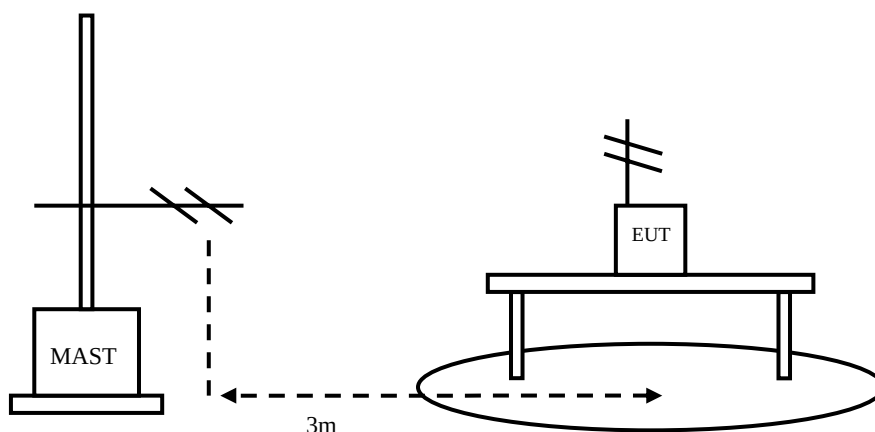


Figure 2

Test Procedure:

The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.

The EUT should work in idle mode. The accessories of the EUT are connected with the EUT such as headset etc. The test set-up and the test methods are performed according to ANSI C63.4:2009.

Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna HL562.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The EUT is laid in two modes as follow: 1. put the EUT in horizontal direction; 2. put the EUT in vertical direction.

The data of cable loss and antenna factor have been calibrated in full testing frequency range before the testing.

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dB μ V/m)
30~88	Quasi-peak	40
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46
960~1000	Quasi-peak	54
1000~5th harmonic of the highest frequency or 40GHz, whichever is lower	Average Peak	54 74

Test result:

GSM 850 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
798.46	40.13	5.1	35.03	Horizontal
887.52	44.61	5.5	39.11	Vertical
938.34	42.92	5.7	37.42	Vertical
5083.71	41.36	-17.5	58.86	Horizontal
5539.19	45.84	-16.8	62.64	Vertical
5842.63	46.77	-15.9	62.67	Vertical

PCS1900 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
2778.42	48.76	-22.1	70.86	Vertical
2781.75	48.77	-22.1	70.87	Horizontal
2866.34	47.22	-21.7	69.32	Vertical
2875.41	47.83	-21.7	69.53	Horizontal
6991.56	43.24	-12.8	56.04	Horizontal
9994.12	44.82	-9.6	54.42	Vertical

WCDMA Band IV Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
2138.63	43.15	-25.1	68.25	Horizontal
2346.52	47.37	-23.7	71.07	Vertical
2771.26	48.81	-22.1	72.51	Vertical
2887.41	48.02	-21.7	69.72	Vertical
6990.74	42.54	-12.8	55.34	Horizontal
1008.35	45.24	-9.6	54.84	Horizontal

FM Radio Mode

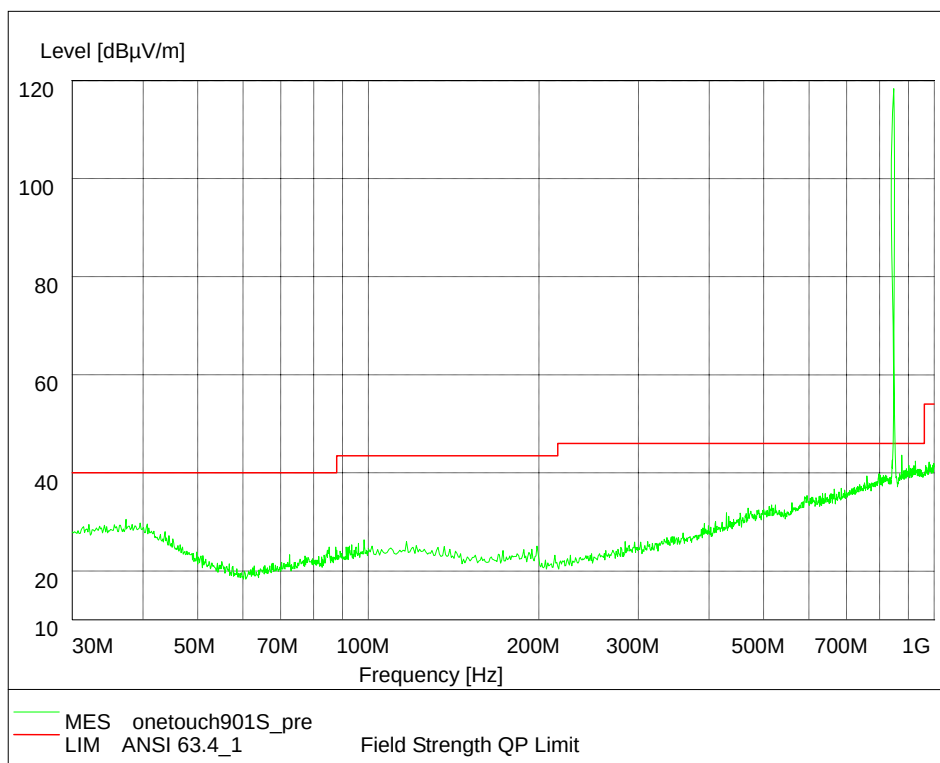
Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
933.25	41.89	5.7	36.19	Vertical
987.60	42.16	5.9	36.26	Vertical
2778.59	39.96	-21.7	34.06	Horizontal
5041.36	41.72	-17.5	59.22	Horizontal
5561.23	44.91	-16.8	61.71	Vertical
5894.74	46.77	-15.9	62.67	Vertical

MP3/MP4 Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
936.19	42.02	5.7	36.32	Vertical
991.42	42.97	5.9	37.07	Horizontal
4856.28	38.44	-18.5	32.54	Horizontal
5027.36	42.25	-17.4	59.65	Horizontal
5534.23	45.82	-16.7	62.52	Vertical
5924.74	47.67	-15.9	63.57	Horizontal

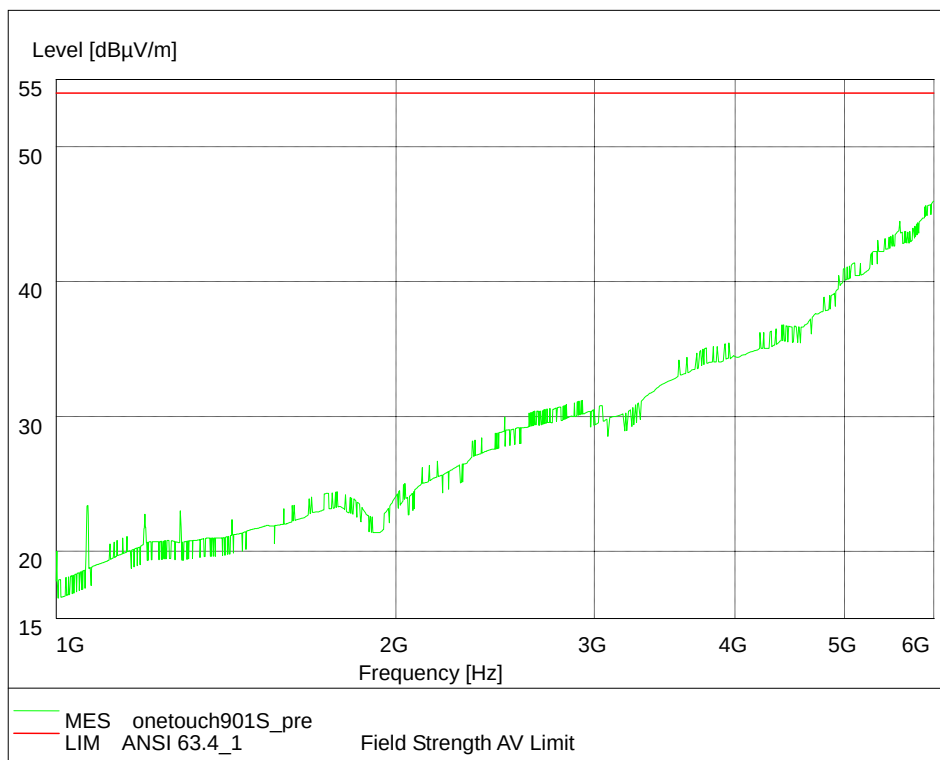
Camera Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
925.60	41.42	5.7	35.72	Vertical
988.94	42.86	5.9	36.96	Vertical
4956.21	38.64	-18.5	32.74	Vertical
5021.36	40.89	-17.4	58.29	Vertical
5568.23	44.71	-16.7	61.41	Vertical
5937.74	47.88	-15.9	63.78	Vertical

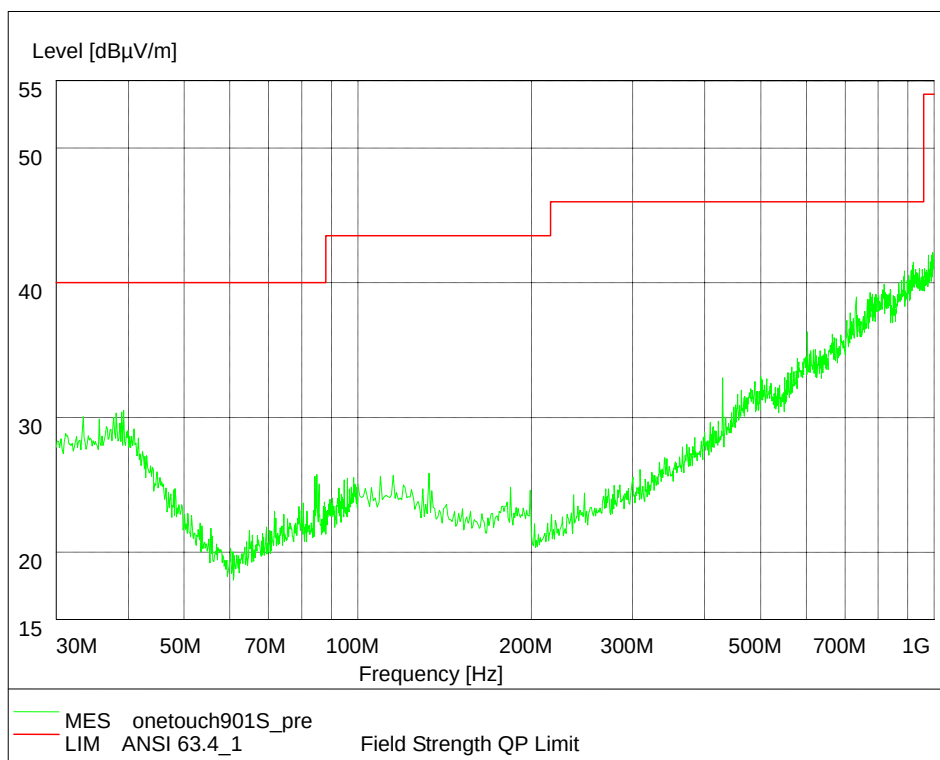


GSM 850 (30MHz - 1GHz)

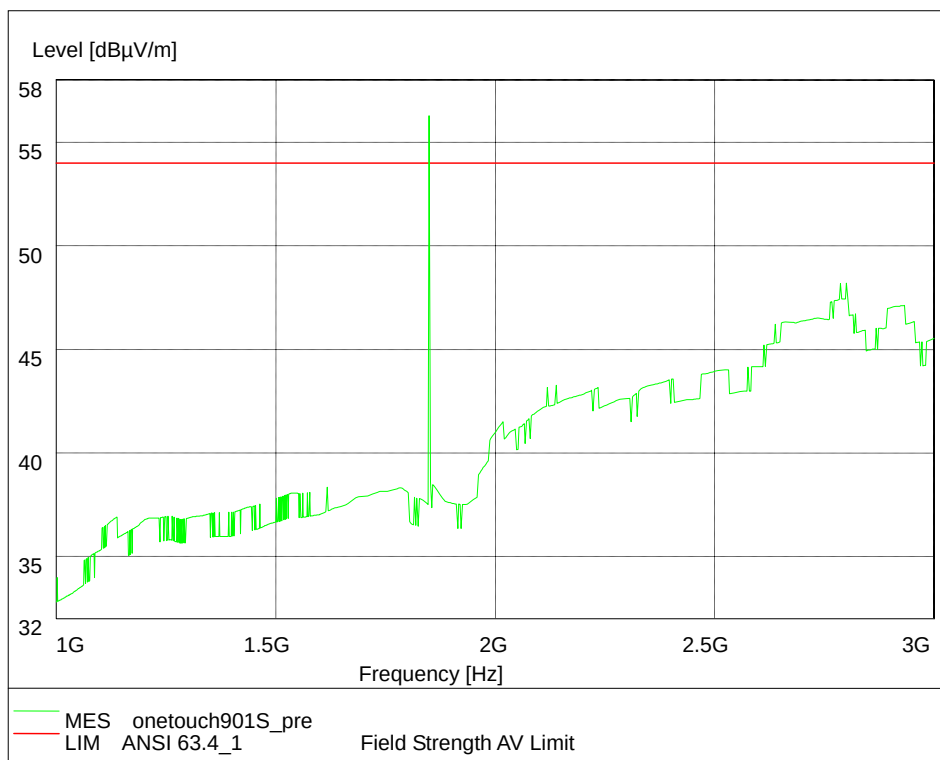
Note: The signals beyond the limit are the base station and simulator carriers.



GSM 850 (1GHz – 6GHz)

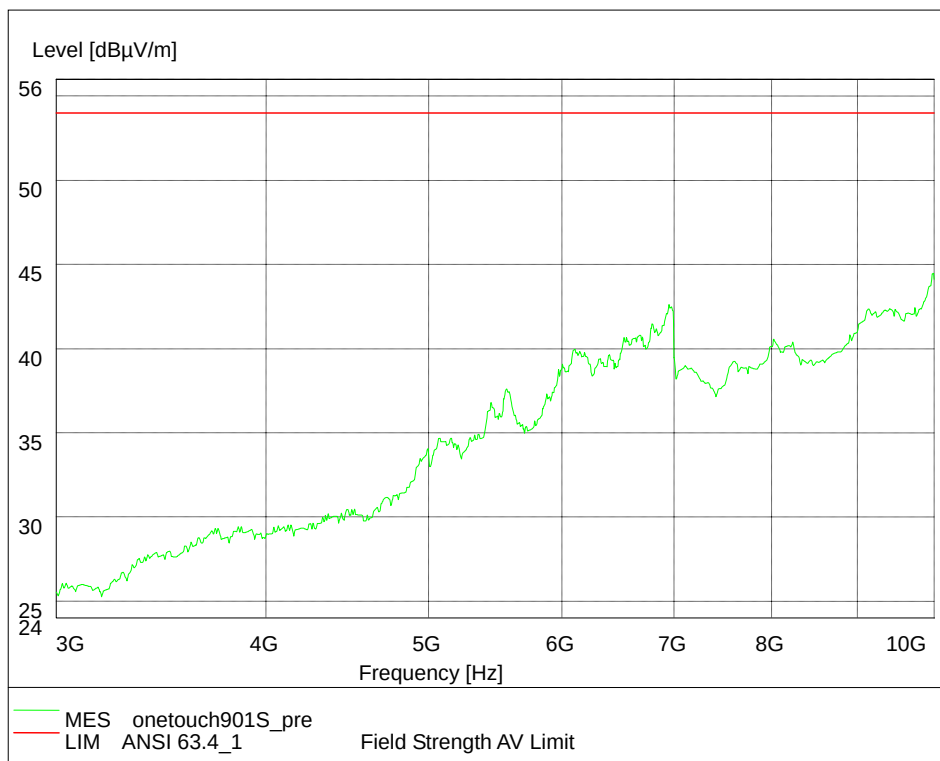


PCS 1900 (30MHz – 1GHz)

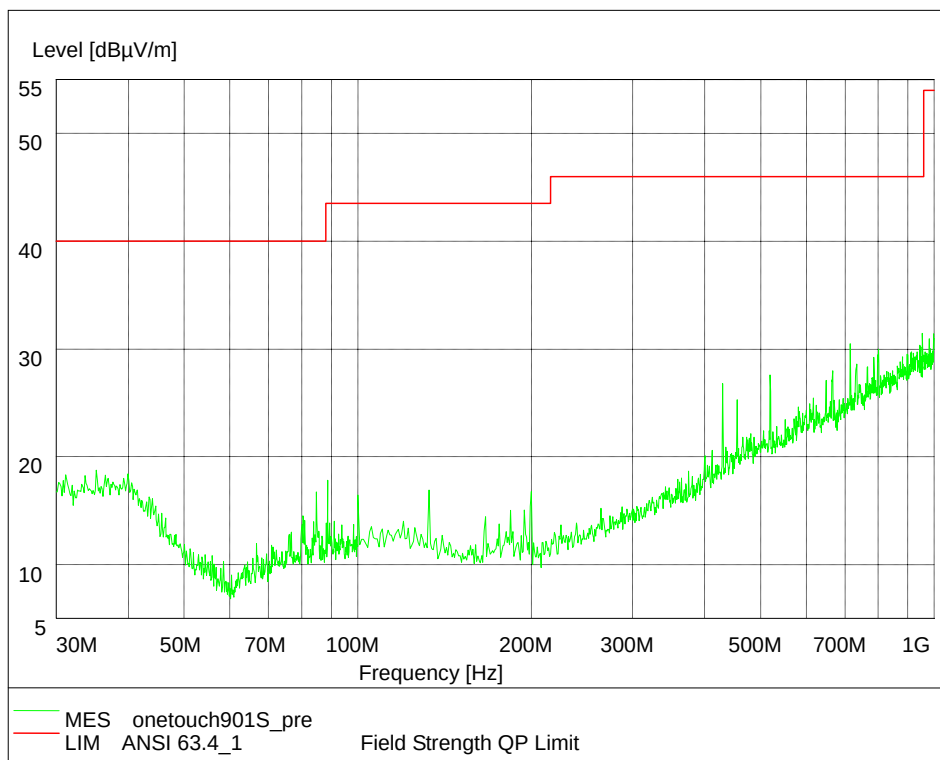


PCS 1900 (1GHz – 3GHz)

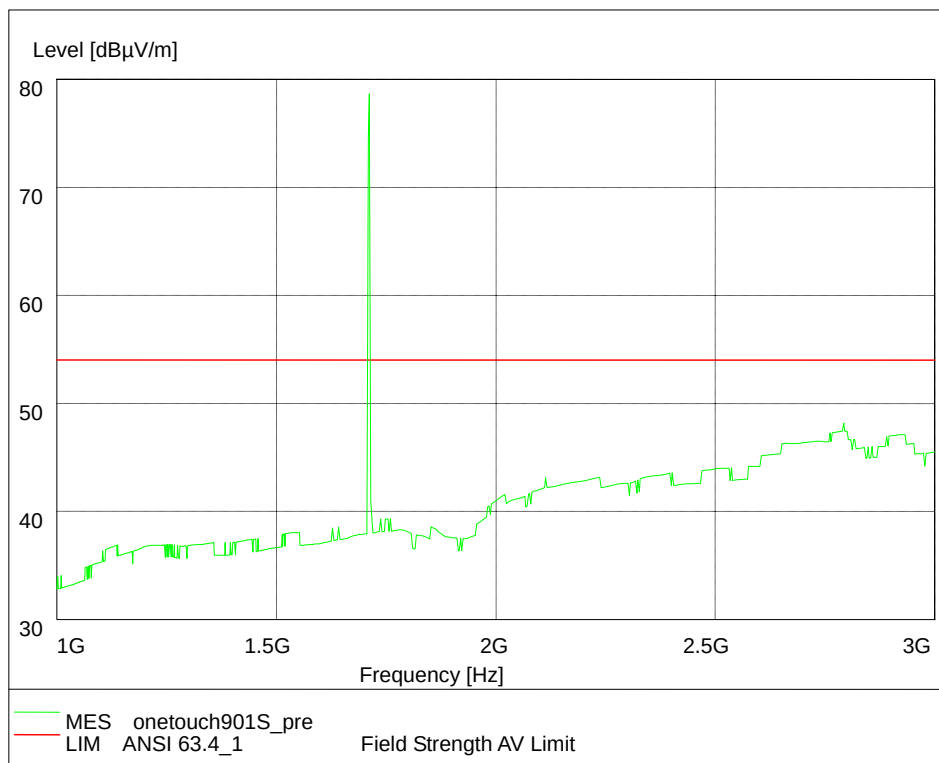
Note: The signals beyond the limit are the base station and simulator carriers.



PCS 1900 (3GHz – 10GHz)

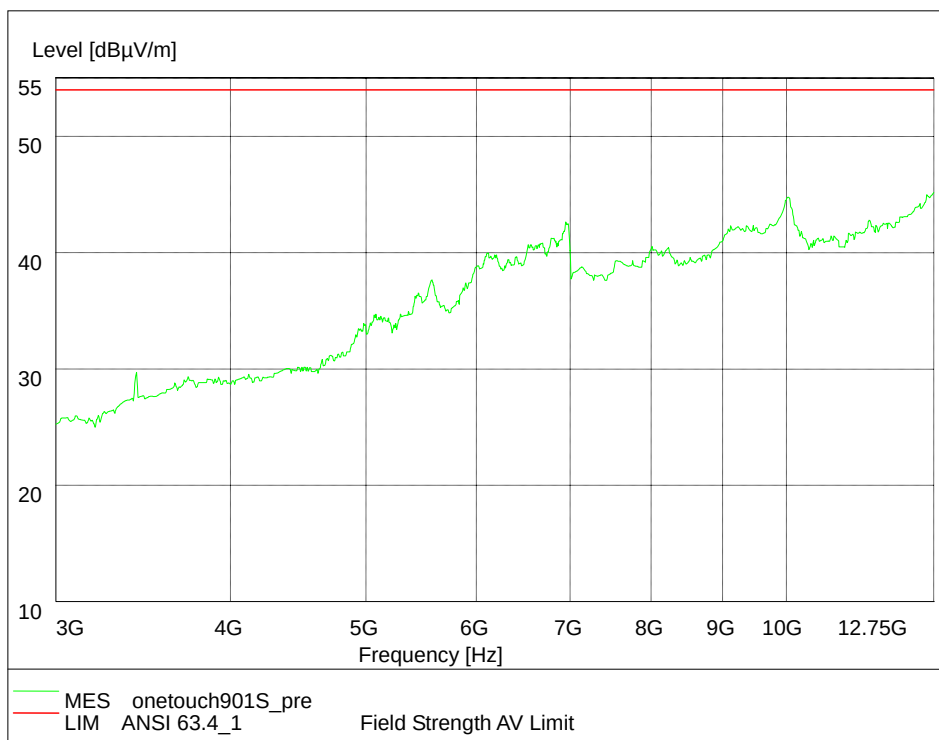


WCDMA BAND IV (30MHz – 1GHz)

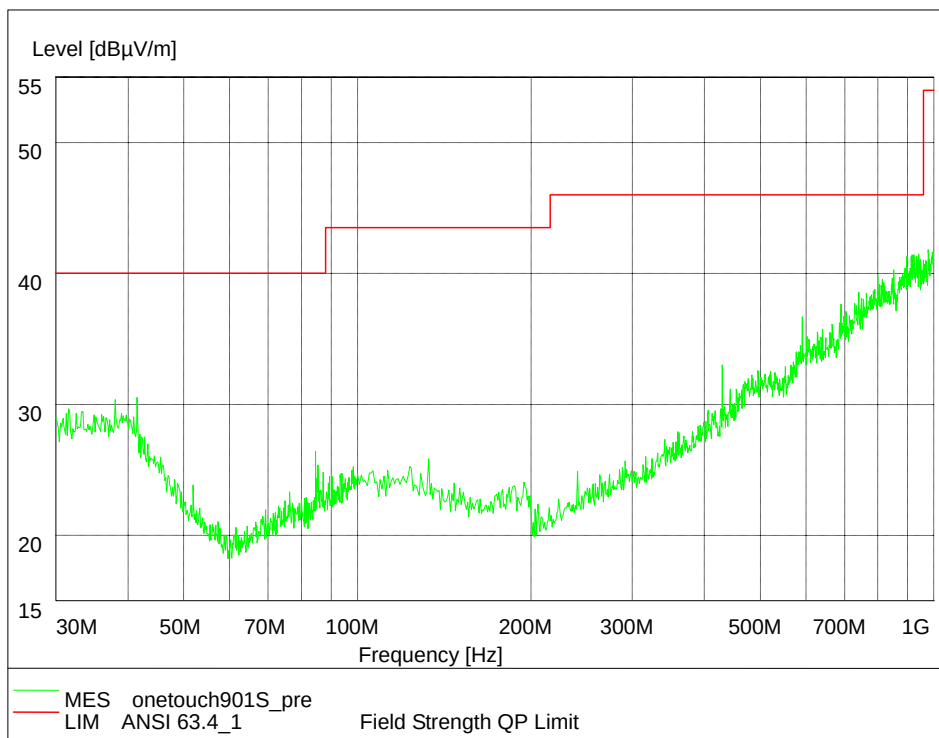


WCDMA BAND IV (1GHz – 3GHz)

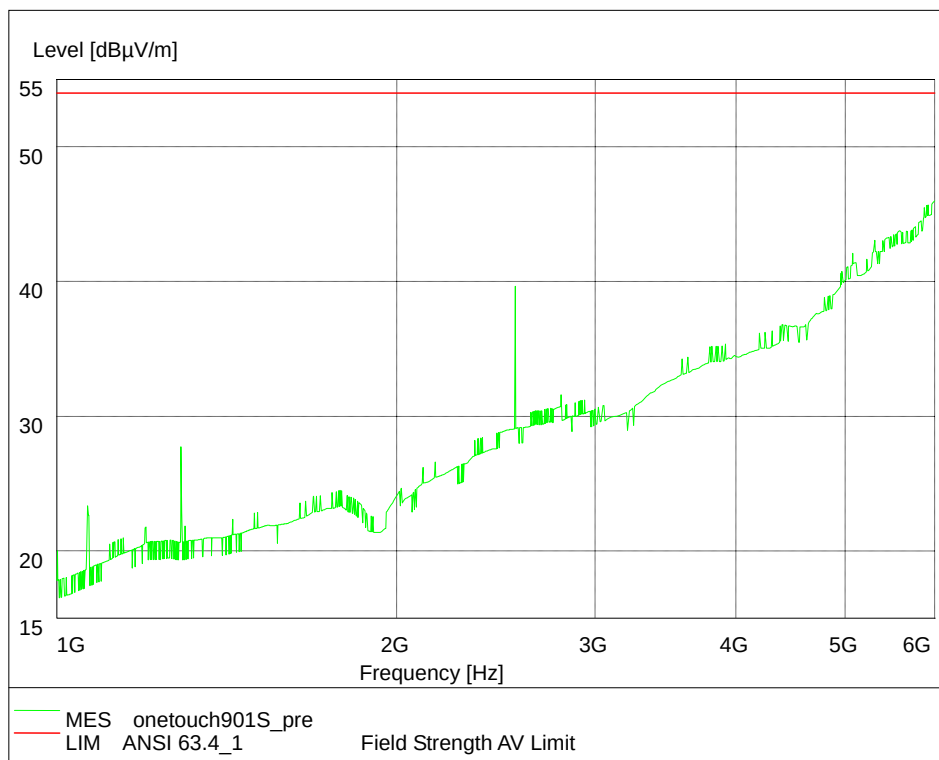
Note: The signals beyond the limit are the base station and simulator carriers.



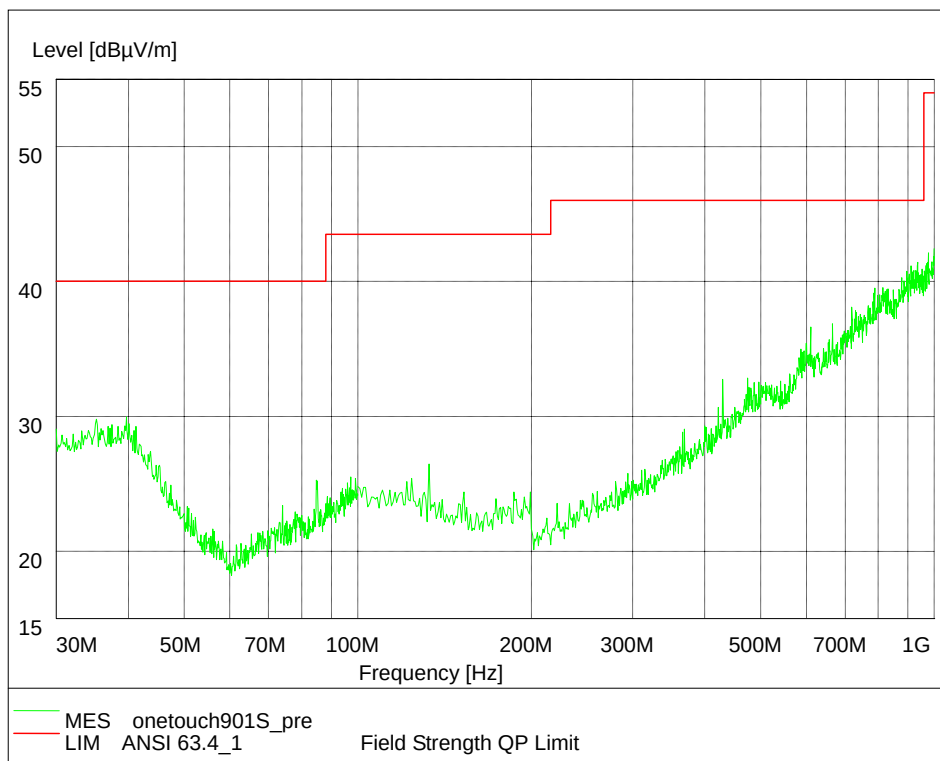
WCDMA BAND IV (3GHz – 12.75GHz)



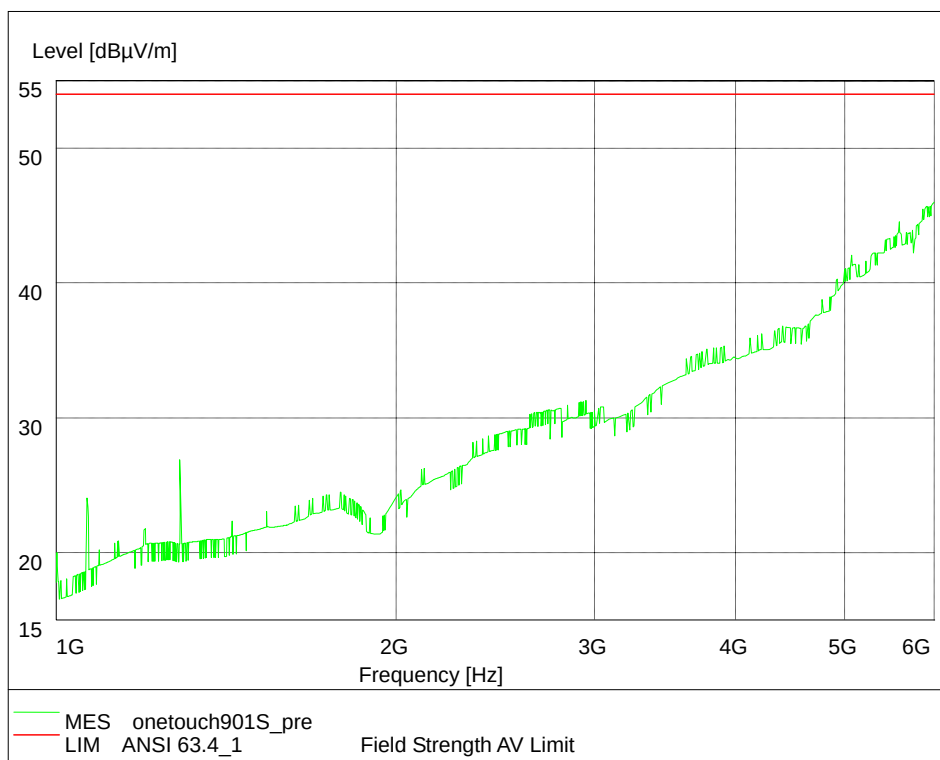
FM Radio (30MHz – 1GHz)



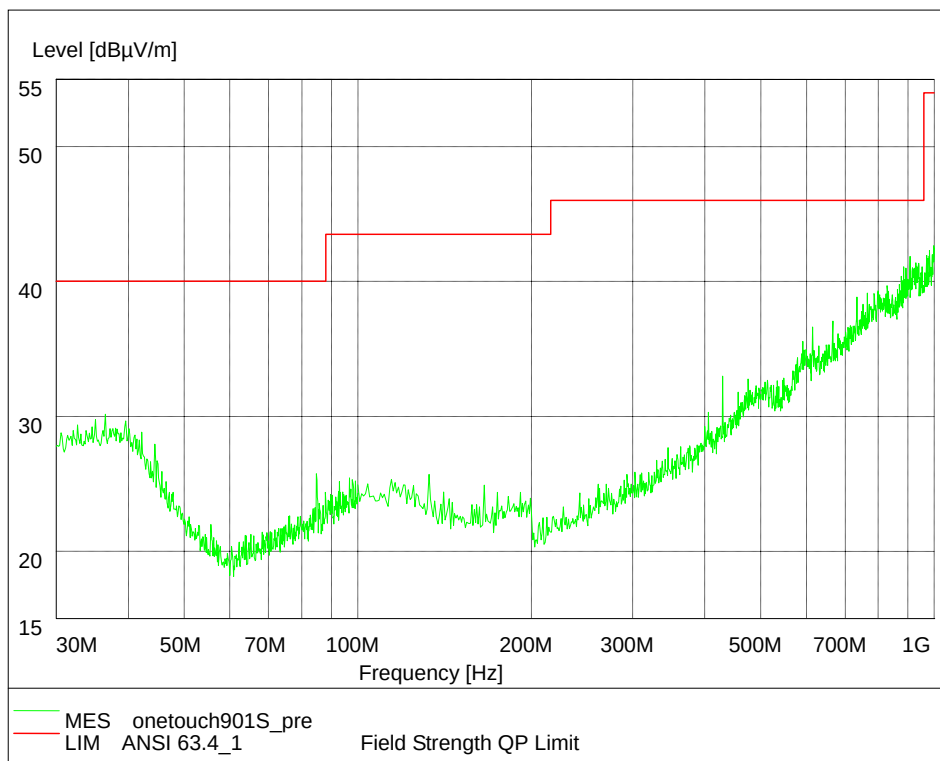
FM Radio (1GHz – 6GHz)



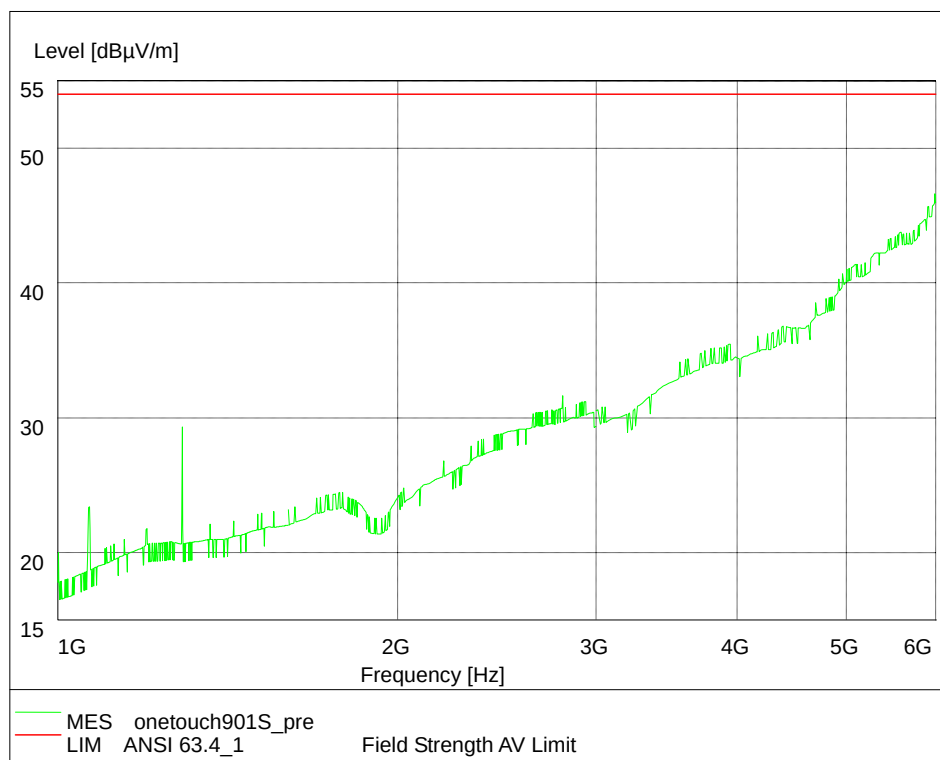
MP3/MP4 (30MHz – 1GHz)



MP3/MP4 (1GHz – 6GHz)



Camera (30MHz – 1GHz)



Camera (1GHz – 6GHz)

2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date
1	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	19 th Aug. 2011
2	ESI 40 EMI test receiver	R&S	100015	19 th Aug. 2011
3	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19 th Aug. 2011
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	19 th Aug. 2011
5	ESCS30 EMI test receiver	R&S	100029	19 th Aug. 2011
6	HL562 Ultra log test antenna	R&S	100016	19 th Aug. 2011
7	ESH3-Z2 Pulse limiter	R&S	10002	19 th Aug. 2011
8	ESH3-Z5 Attenuator	R&S	100020	19 th Aug. 2011
9	ESH2Z11 LISN	R&S	50FH-020-10	19 th Aug. 2011
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19 th Aug. 2011
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19 th Aug. 2011
12	PS2000 Turn Table	FRANKONIA	-----	19 th Aug. 2011
13	MA260 Antenna Master	FRANKONIA	-----	19 th Aug. 2011
14	ES-K1EMI test software	R&S	-----	19 th Aug. 2011
15	HL562 Receive antenna	R&S	100167	19 th Aug. 2011

Appendix