Global No.1 Testing Laboratory Universal Certification Solution

FCC TEST REPORT

Product name:	OCR Multi-Player
FCC ID:	QJCT70EZ
Model:	T70ET
Standards:	FCC CFR 47 PART 15 SUBPART C, Section 15.247
Applicant:	HIMS International Corporation.
Test Report No.:	UCSFR-1411-010

UCS Co., Ltd.

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FCC Test Report

Report Number		UCSFR-1411-010		
Applicant	Company Name	HIMS International Corporation.		
	Address	174, Gajung-ro, Yuseong-gu, Daejeon, Korea 305-350		
Product	Product Name	OCR Multi-Player		
	FCC ID	QJCT70EZ		
	Model Name	T70ET		
	Manufacturer	HIMS International Corporation.		
	Serial No.	-	Country of origin	Korea
Other	Receipt Date	2014.08.27	Receipt Number	UCS-R-2014-617
	Issued Date	2014.11.03	Tested Date	2014.10.29 ~ 2014.10.30
Standards		FCC CFR 47 PART 15 SUBPART C, Section 15.247		
Tested by		H. K. Lee (Sign)		
Approved by		Y. M. Choi (Sign)		

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Contents

Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
UCSFR-1411-010	03-Nov-14	Initial Issue	All

1. Applizant Information

Applicant Name : HIMS International Corporation.
Address : 174, Gajung-ro, Yuseong-gu, Daejeon, Korea 305-350
Manufacturer : HIMS International Corporation.
Address : 174, Gajung-ro, Yuseong-gu, Daejeon, Korea 305-350
Country of Origin : Korea

2. EUT (Equipment under test) Information

Product name	OCR Multi-Player	
Brand	Blaze ET	
Model name	T70ET	
Power source	DC 5 V (Used AC/DC Adapter)	
Ferquency range	802.11 b/g/n(HT20)	2 412 MHz ~ 2 462 MHz
	802.11 n(HT40)	2 422 MHz ~ 2 452 MHz
	Bluetooth	2 402 MHz ~ 2 480 MHz
Number of channels	802.11 b/g/n(HT20)	11 Ch
	802.11 n(HT40)	9 Ch
	Bluetooth	79 CH
Modulation Technique	802.11 b	DSSS Modulation(DBPSK/DQPSK/CCK)
	802.11 g/n(HT20)/n(HT40)	OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
	Bluetooth	GFSK for 1Mbps, 8-DPSK for 3Mbps
Antenna specification	2.1 dBi gain (Peak Gain)	

-. The EUT has been already certified by FCC ID. QJCT70EZ on Jun 18, 2014. However it has been re-tested Because model-T70ET is alter of Model-T70EZ. It has no alteration about RF, PCB and it just add the Keypad button. So the test was performed whether the EUT meets the FCC requirement or not.

Before (Model name: T70EZ)	**After (Model name: T70ET)**
	

3. Laboratory Information

UCS Co., Ltd.

#702, Anyang Megavalley799, Gwanyang2-dong, Dongan-gu, Anyang-si, Gyeonggi-do, 431-767, Korea

ER Center

#476-4, Hwalcho-dong, Hwaseong-si, Gyeonggi-do, 445-150, Korea

Test site

- FCC Registration Number : 803225
- This test site is in compliance with ISO/IEC 17025 for general requirements for the competence of testing and calibration laboratories.

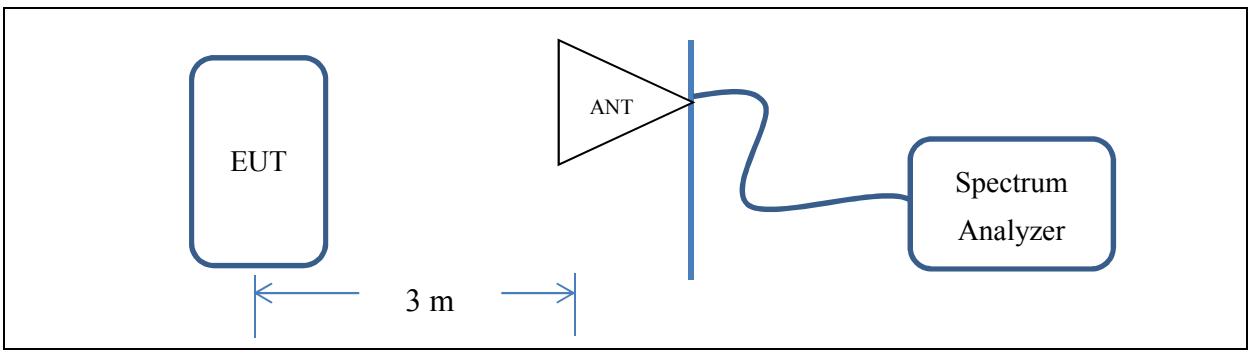
4. Test Confifuration and Condition

4.1 EUT operating condition

- The EUT had been tested under the operating condition.
- There are one channels have been tested as following:
- Channel Low and Channel High with higher data rate were chosen for full testing.

Channel		Frequency (MHz)
802.11 b/g/n(HT20)	**Low**	2 412
	Middle	2 442
	High	2 462
802.11 n(HT40)	**Low**	2 422
	Middle	2 442
	High	2 452
Bluetooth	**Low**	2 402
	Middle	2 441
	High	2 480

4.2 EUT test configuration diagram



[System Block Diagram of Test Configuration]

4.3 Peripheral equipments list for test

Equipment Name	Model	Serial Number	Manufacturer
OCR Multi-Player	T70ET	-	HIMS International Corporation
Adapter	DSA-12CA-05	-	Dee Van Electronics(LongChuan) Co,. Ltd.

4.4 Cable connections

Start		End		Cable	
Name	I/O Port	Name	I/O Port	Length	Spec.
EUT	DC in (micro USB)	Adapter	DC out (micro USB)	1.8	Unshielded

4.5 EUT modifications

-. None

5. Summary of Test Results and Measureent Proce Dures

5.1 Summary of test results

Standard	Test Item	CFR 47 Section	Result
FCC CFR 47 Part 15.247 Subpart C	Antenna Requirement	15.203	Pass
	Conducted Emissions	15.207	Pass
	Field Strength of Radiated Emissions	15.209	Pass

5.2 AC powerline conducted emission test

The EUT was connected to adaptor and the power of adaptor was connected to LISN. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2009 to determine the worse operating conditions.

5.3 Radiated emission test

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2009 to determine the worse operating conditions. The radiated emissions measurements were performed on the 10 m Semi Anechoic Chamber.

For frequencies from 150 kHz to 30 MHz measurements were made of the magnetic H field.

The measuring antenna is an electrically screened loop antenna.

The frequency spectrum from 30 MHz to 1 000 MHz was scanned and maximum emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and verticalpolarization of the receiving antenna.

6. Test Results

6.1 Antenna requirement

6.1.1 Regulation

According to §15.203, 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.

And according to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.1.2 Results: Pass

The transmitter has an integral Chip antenna. The directional gain of the antenna is 2.1 dBi.

6.2 AC power line conducted emissions

6.2.1 Regulation

According to §15.207(a), 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 following table, as measured using a 50μH/50Ω 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 boundary between the frequency ranges.

Frequency of emission [MHz]	Conducted limit [dBμV]	
	Qausi-peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency.

6.2.2 Test procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω / 50 μH LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASI-PEAK and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

6.2.3 Test data

[WLAN mode]

Table 1: Measured values of the AC Power Line Conducted Emissions

Frequency [MHz]	Factor		Line	Quasi-Peak			Average		
	LISN [dB]	Cable [dB]		Limit [dBµV]	Reading [dBµV]	Results [dBµV]	Limit [dBµV]	Reading [dBµV]	Results [dBµV]
0.16	0.03	0.03	N	65.46	43.49	43.55	55.46	-	-
0.21	0.03	0.03	N	63.21	41.85	41.91	53.21	-	-
0.56	0.03	0.05	N	56.00	38.12	38.21	46.00	-	-
1.53	0.05	0.10	N	56.00	39.93	40.08	46.00	-	-
6.23	0.11	0.29	H	60.00	34.66	35.06	50.00	-	-
7.59	0.14	0.35	H	60.00	36.04	36.52	50.00	-	-
9.03	0.17	0.39	H	60.00	33.84	34.41	50.00	-	-

* Remark: “H”: Hot Line, “N”: Neutral Line
* Average mode was not recorded, because Quasi-Peak values were under the Average limit.

[Bluetooth mode]

Table 2: Measured values of the AC Power Line Conducted Emissions

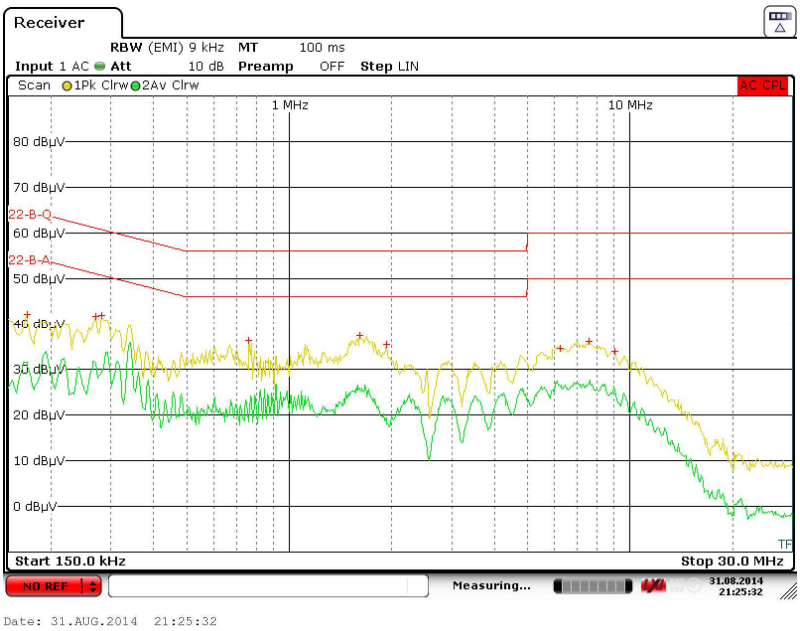
Frequency [MHz]	Factor		Line	Quasi-Peak			Average		
	LISN [dB]	Cable [dB]		Limit [dBµV]	Reading [dBµV]	Results [dBµV]	Limit [dBµV]	Reading [dBµV]	Results [dBµV]
0.17	0.05	0.03	H	64.96	45.42	45.50	54.96	-	-
0.24	0.04	0.03	H	62.10	43.57	43.64	52.10	-	-
0.34	0.04	0.04	H	59.20	41.58	41.66	49.20	-	-
0.77	0.04	0.06	H	56.00	38.73	38.83	46.00	-	-
1.08	0.04	0.08	N	56.00	32.98	33.10	46.00	-	-
6.27	0.11	0.29	H	60.00	33.76	34.16	50.00	-	-
7.50	0.13	0.35	H	60.00	34.35	34.83	50.00	-	-

* Remark: “H”: Hot Line, “N”: Neutral Line
* Average mode was not recorded, because Quasi-Peak values were under the Average limit.

6.2.4 Test graph

[WLAN mode]

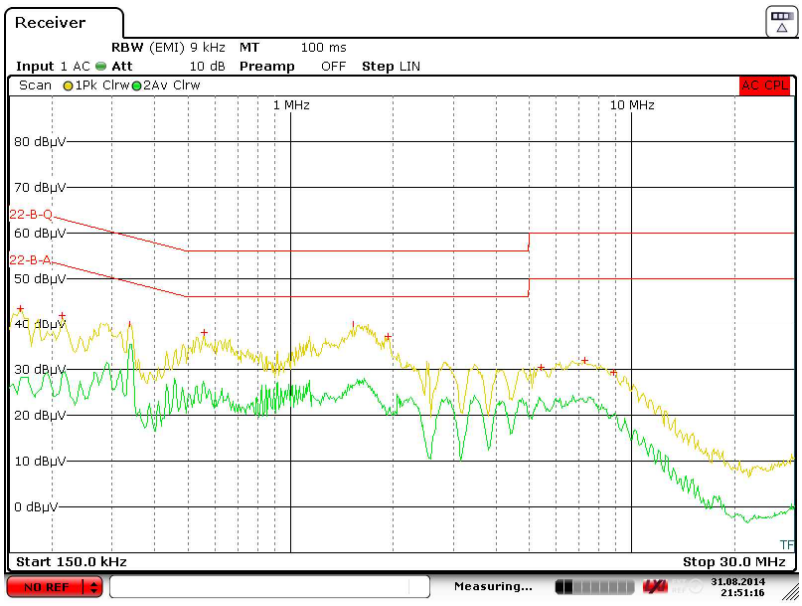
[Hot Line]



Date: 31.AUG.2014 21:25:32

* ——— : Quasi-Peak, ——— : Averrage

[Neutral Line]

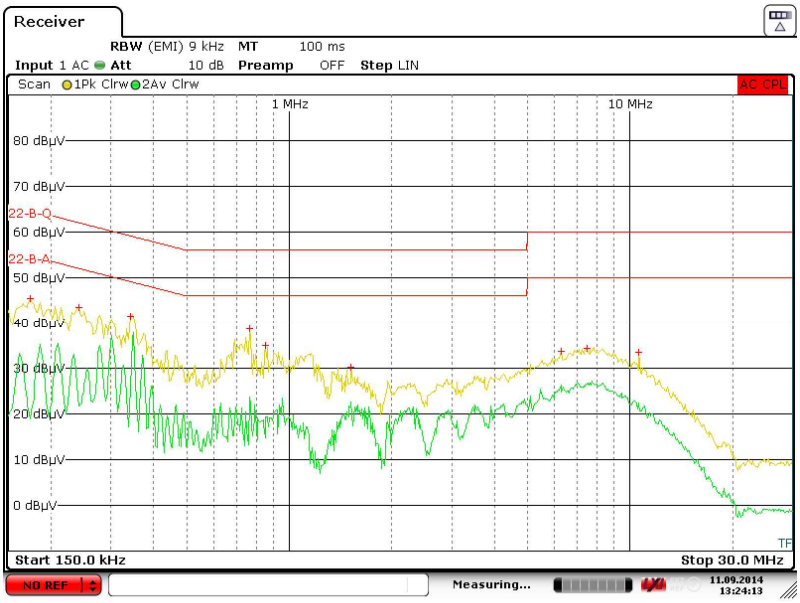


Date: 31.AUG.2014 21:51:16

* ——— : Quasi-Peak, ——— : Averrage

[Bluetooth mode]

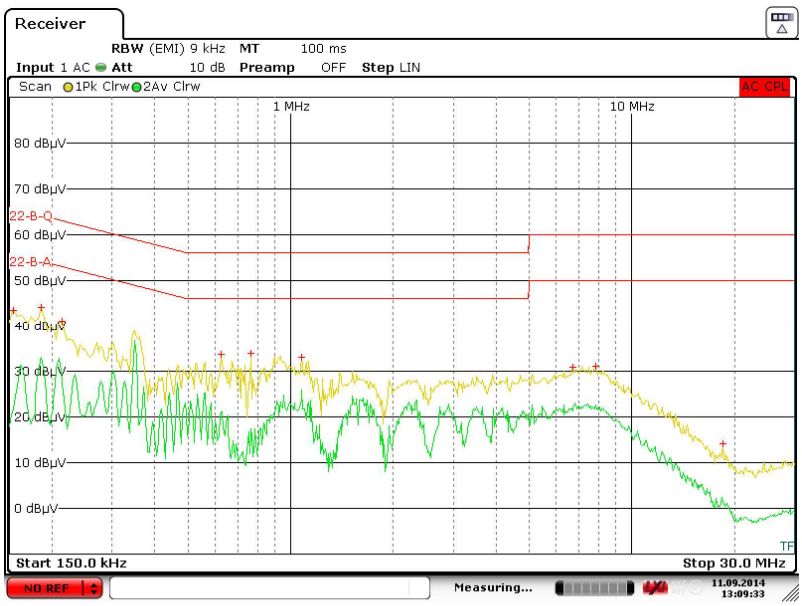
[Hot Line]



Date: 11.SEP.2014 13:24:14

* ——— : Quasi-Peak, ——— : Averrage

[Neutral Line]



Date: 11.SEP.2014 13:09:34

* ——— : Quasi-Peak, ——— : Averrage

6.3 Spurious emissions and band edge, restricted bands

6.3.1 Regulation

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

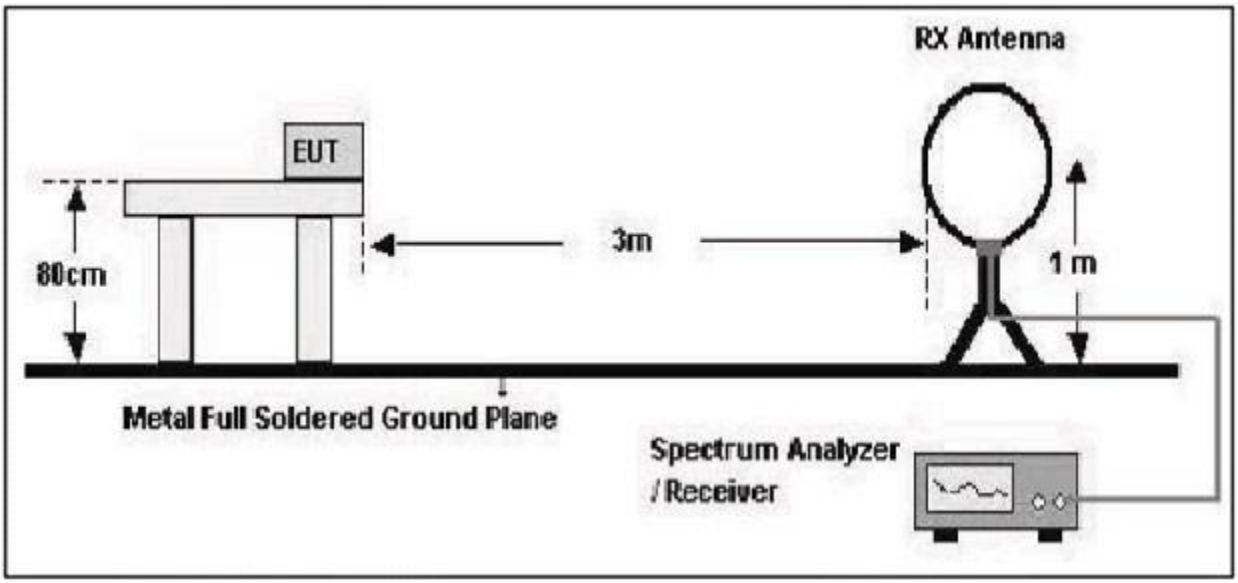
According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency [MHz]	Field strength [μV/m]	Field strength [dBμV/m]	Measurement distance [m]
0.009 ~ 0.490	2 400 / F (kHz)	-	300
0.490 ~ 1.705	24 000 / F (kHz)	-	30
1.705 ~ 30	30	29.54	30
30 ~ 88	100	40.00	3
88 ~ 216	150	43.52	3
216 ~ 960	200	46.02	3
Above 960	500	53.98	3

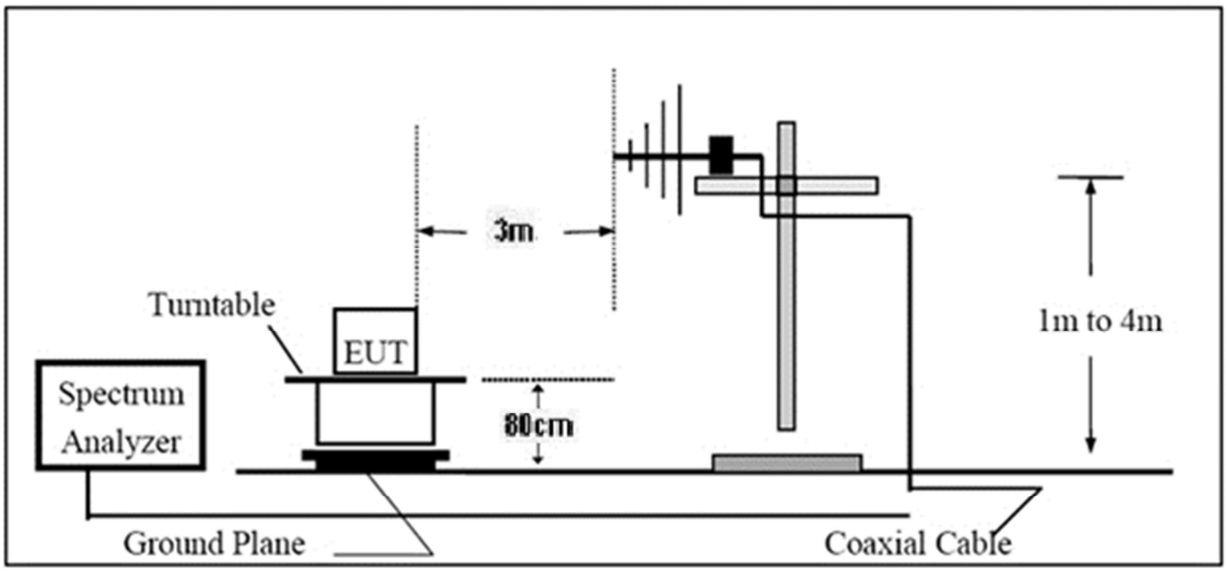
The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector and above 1 000 MHz are based on the average value of measured emissions.

6.3.2 Test setup layout

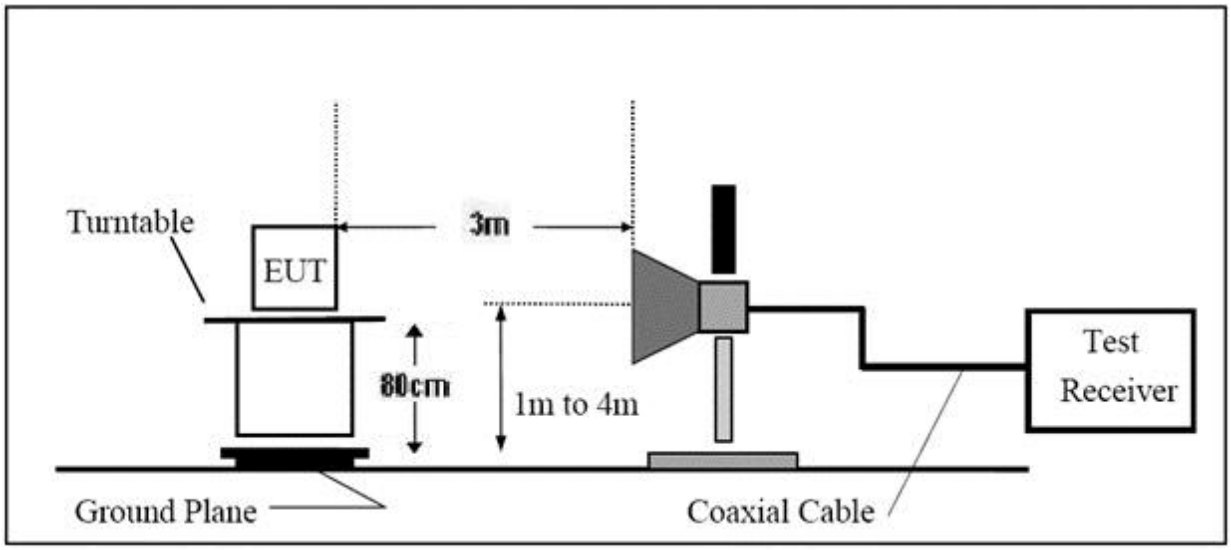
6.3.2.1 Radiated emission test set-up, frequency below 30 MHz



6.3.2.2 Radiated emission test set-up, frequency above 30 MHz



6.3.3 Radiated emission test set-up frequency above 1 000 MHz



6.3.4 Test procedure

1. The preliminary radiated measurements were performed to determine the frequency producing the maximum emissions in an anechoic chamber at a distance of 3 meters for above 30 MHz, and at 1 meter distance for below 30 MHz.
2. The EUT was placed on the top of the 0.8-meter height, 1 × 1.5 meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
3. The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, from 30 to 1 000 MHz using the Trilog broadband antenna, and from 1 GHz to tenth harmonic of the highest fundamental frequency using the horn antenna.
4. To obtain the final measurement data, the EUT was arranged on a turntable situated on a 4 × 4 meter at the Open Area Test Site. The EUT was tested at a distance 3 meters.
5. Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.
6. The EUT is situated in three orthogonal planes (if appropriate)
7. The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT.
8. If the emission on which a radiated measurement must be made is located at the edge of the authorized band of operation, then the alternative “marker-delta” method may be employed.

6.3.5 Test data for below 30 MHz (WLAN mode)

Table 3: Measured values of the Field strength of spurious emission (802.11 b mode)						
Frequency [MHz]		**Detect Mode**	**Polarization [V/H]**	**Emission Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**
Average/Peak/Quasi-peak data, emissions below 30 MHz						
		No Critical peaks Found				
Quasi-peak data, emissions below 1 000 MHz						
2 412	53.52	Qausi-peak	V	33.40	40.00	-6.60
	60.15	Qausi-peak	V	35.24	40.00	-4.76
	215.26	Qausi-peak	H	33.14	43.52	-10.38
	242.82	Qausi-peak	H	31.76	46.02	-14.26
	263.17	Qausi-peak	H	28.23	46.02	-17.79
	535.54	Qausi-peak	H	31.63	46.02	-14.39
2 442	53.52	Qausi-peak	V	33.45	40.00	-6.55
	60.15	Qausi-peak	V	34.66	40.00	-5.34
	215.26	Qausi-peak	H	32.59	43.52	-10.93
	242.82	Qausi-peak	H	30.64	46.02	-15.38
	263.17	Qausi-peak	H	28.28	46.02	-17.74
	535.54	Qausi-peak	H	32.17	46.02	-13.85
2 462	53.52	Qausi-peak	V	32.06	40.00	-7.94
	60.15	Qausi-peak	V	34.64	40.00	-5.36
	215.26	Qausi-peak	H	33.55	43.52	-9.97
	242.82	Qausi-peak	H	33.05	46.02	-12.97
	263.17	Qausi-peak	H	28.62	46.02	-17.40
	535.54	Qausi-peak	H	31.80	46.02	-14.22
Peak/Average data, emissions above 1 000 MHz						
		No Critical peaks Found				

* Remark: “H”: Horizontal, “V”: Vertical

* Margin [dB] = Emission Level [dBµV/m] – Limit [dBµV/m]

Table 4: Measured values of the Field strength of spurious emission (802.11 g mode)						
Frequency [MHz]		**Detect Mode**	**Polarization [V/H]**	**Emission Level [dBμV/m]**	**Limit [dBμV/m]**	**Margin [dB]**
Average/Peak/Quasi-peak data, emissions below 30 MHz						
		No Critical peaks Found				
Quasi-peak data, emissions below 1 000 MHz						
2 412	53.52	Qausi-peak	V	34.32	40.00	-5.68
	60.15	Qausi-peak	V	34.57	40.00	-5.43
	215.26	Qausi-peak	H	34.52	43.52	-9.00
	242.82	Qausi-peak	H	31.68	46.02	-14.34
	263.17	Qausi-peak	H	29.72	46.02	-16.30
	535.54	Qausi-peak	H	31.71	46.02	-14.31
2 442	53.52	Qausi-peak	V	33.46	40.00	-6.54
	60.15	Qausi-peak	V	34.30	40.00	-5.70
	215.26	Qausi-peak	H	32.88	43.52	-10.64
	242.82	Qausi-peak	H	30.82	46.02	-15.20
	263.17	Qausi-peak	H	29.56	46.02	-16.46
	535.54	Qausi-peak	H	31.86	46.02	-14.16
2 462	53.52	Qausi-peak	V	32.10	40.00	-7.90
	60.15	Qausi-peak	V	34.36	40.00	-5.64
	215.26	Qausi-peak	H	33.74	43.52	-9.78
	242.82	Qausi-peak	H	30.86	46.02	-15.16
	263.17	Qausi-peak	H	28.73	46.02	-17.29
	535.54	Qausi-peak	H	31.66	46.02	-14.36
Peak/Average data, emissions above 1 000 MHz						
		No Critical peaks Found				

* Remark: “H”: Horizontal, “V”: Vertical

* Margin [dB] = Emission Level [dBμV/m] – Limit [dBμV/m]

Table 5: Measured values of the Field strength of spurious emission (802.11 n_20 mode)						
Frequency [MHz]		**Detect Mode**	**Polarization [V/H]**	**Emission Level [dBμV/m]**	**Limit [dBμV/m]**	**Margin [dB]**
Average/Peak/Quasi-peak data, emissions below 30 MHz						
		No Critical peaks Found				
Quasi-peak data, emissions below 1 000 MHz						
2 412	53.52	Qausi-peak	V	33.72	40.00	-6.28
	60.15	Qausi-peak	V	35.86	40.00	-4.14
	215.26	Qausi-peak	H	33.66	43.52	-9.86
	242.82	Qausi-peak	H	31.14	46.02	-14.88
	263.17	Qausi-peak	H	27.75	46.02	-18.27
	535.54	Qausi-peak	H	31.73	46.02	-14.29
2 442	53.52	Qausi-peak	V	32.32	40.00	-7.68
	60.15	Qausi-peak	V	35.79	40.00	-4.21
	215.26	Qausi-peak	H	33.39	43.52	-10.13
	242.82	Qausi-peak	H	33.13	46.02	-12.89
	263.17	Qausi-peak	H	29.64	46.02	-16.38
	535.54	Qausi-peak	H	31.05	46.02	-14.97
2 462	53.52	Qausi-peak	V	32.31	40.00	-7.69
	60.15	Qausi-peak	V	35.18	40.00	-4.82
	215.26	Qausi-peak	H	32.81	43.52	-10.71
	242.82	Qausi-peak	H	32.82	46.02	-13.20
	263.17	Qausi-peak	H	27.41	46.02	-18.61
	535.54	Qausi-peak	H	32.14	46.02	-13.88
Peak/Average data, emissions above 1 000 MHz						
		No Critical peaks Found				

* Remark: “H”: Horizontal, “V”: Vertical

* Margin [dB] = Emission Level [dBμV/m] – Limit [dBμV/m]

Table 6: Measured values of the Field strength of spurious emission (802.11 n_40 mode)						
Frequency [MHz]		**Detect Mode**	**Polarization [V/H]**	**Emission Level [dBμV/m]**	**Limit [dBμV/m]**	**Margin [dB]**
Average/Peak/Quasi-peak data, emissions below 30 MHz						
		No Critical peaks Found				
Quasi-peak data, emissions below 1 000 MHz						
2 422	53.52	Qausi-peak	V	34.55	40.00	-5.45
	60.15	Qausi-peak	V	35.94	40.00	-4.06
	215.26	Qausi-peak	H	33.48	43.52	-10.04
	242.82	Qausi-peak	H	30.41	46.02	-15.61
	263.17	Qausi-peak	H	29.50	46.02	-16.52
	535.54	Qausi-peak	H	31.75	46.02	-14.27
2 442	53.52	Qausi-peak	V	32.62	40.00	-7.38
	60.15	Qausi-peak	V	35.28	40.00	-4.72
	215.26	Qausi-peak	H	33.91	43.52	-9.61
	242.82	Qausi-peak	H	31.33	46.02	-14.69
	263.17	Qausi-peak	H	28.36	46.02	-17.66
	535.54	Qausi-peak	H	31.80	46.02	-14.22
2 452	53.52	Qausi-peak	V	33.84	40.00	-6.16
	60.15	Qausi-peak	V	36.02	40.00	-3.98
	215.26	Qausi-peak	H	32.37	43.52	-11.15
	242.82	Qausi-peak	H	31.10	46.02	-14.92
	263.17	Qausi-peak	H	28.95	46.02	-17.07
	535.54	Qausi-peak	H	33.06	46.02	-12.96
Peak/Average data, emissions above 1 000 MHz						
		No Critical peaks Found				

* Remark: “H”: Horizontal, “V”: Vertical

* Margin [dB] = Emission Level [dBμV/m] – Limit [dBμV/m]

6.3.6 Test data for below 30 MHz (Bluetooth mode)

Table 7: Measured values of the Field strength of spurious emission (1 Mbps Transmit mode)						
Frequency [MHz]		**Detect Mode**	**Polarization [V/H]**	**Emission Level [dBμV/m]**	**Limit [dBμV/m]**	**Margin [dB]**
Average/Peak/Quasi-peak data, emissions below 30 MHz						
		No Critical peaks Found				
Quasi-peak data, emissions below 1 000 MHz						
2 402	53.97	Qausi-peak	V	34.54	40.00	-5.46
	61.29	Qausi-peak	V	32.27	40.00	-7.73
	213.74	Qausi-peak	H	32.15	43.52	-11.37
	240.73	Qausi-peak	H	30.83	46.02	-15.19
	266.54	Qausi-peak	H	20.21	46.02	-25.81
	537.82	Qausi-peak	H	32.53	46.02	-13.49
2 441	53.97	Qausi-peak	V	33.51	40.00	-6.49
	61.29	Qausi-peak	V	32.20	40.00	-7.80
	213.74	Qausi-peak	H	32.52	43.52	-11.00
	240.73	Qausi-peak	H	30.64	46.02	-15.38
	266.54	Qausi-peak	H	21.64	46.02	-24.38
	537.82	Qausi-peak	H	33.66	46.02	-12.36
2 480	53.97	Qausi-peak	V	33.84	40.00	-6.16
	61.29	Qausi-peak	V	33.03	40.00	-6.97
	213.74	Qausi-peak	H	31.17	43.52	-12.35
	240.73	Qausi-peak	H	31.00	46.02	-15.02
	266.54	Qausi-peak	H	19.27	46.02	-26.75
	537.82	Qausi-peak	H	33.08	46.02	-12.94
Peak/Average data, emissions above 1 000 MHz						
		No Critical peaks Found				

* Remark: “H”: Horizontal, “V”: Vertical

* Margin [dB] = Emission Level [dBμV/m] – Limit [dBμV/m]

Table 8: Measured values of the Field strength of spurious emission (3 Mbps Transmit mode)						
Frequency [MHz]		**Detect Mode**	**Polarization [V/H]**	**Emission Level [dBµV/m]**	**Limit [dBµV/m]**	**Margin [dB]**
Average/Peak/Quasi-peak data, emissions below 30 MHz						
		No Critical peaks Found				
Quasi-peak data, emissions below 1 000 MHz						
2 402	53.97	Qausi-peak	V	34.93	40.00	-5.07
	61.29	Qausi-peak	V	31.72	40.00	-8.28
	213.74	Qausi-peak	H	32.26	43.52	-11.26
	240.73	Qausi-peak	H	31.26	46.02	-14.76
	266.54	Qausi-peak	H	20.47	46.02	-25.55
	537.82	Qausi-peak	H	33.79	46.02	-12.23
2 441	53.97	Qausi-peak	V	34.77	40.00	-5.23
	61.29	Qausi-peak	V	32.85	40.00	-7.15
	213.74	Qausi-peak	H	31.26	43.52	-12.26
	240.73	Qausi-peak	H	30.75	46.02	-15.27
	266.54	Qausi-peak	H	20.49	46.02	-25.53
	537.82	Qausi-peak	H	31.98	46.02	-14.04
2 480	53.97	Qausi-peak	V	33.73	40.00	-6.27
	61.29	Qausi-peak	V	31.15	40.00	-8.85
	213.74	Qausi-peak	H	31.32	43.52	-12.20
	240.73	Qausi-peak	H	31.82	46.02	-14.20
	266.54	Qausi-peak	H	21.01	46.02	-25.01
	537.82	Qausi-peak	H	32.19	46.02	-13.83
Peak/Average data, emissions above 1 000 MHz						
		No Critical peaks Found				

* Remark: “H”: Horizontal, “V”: Vertical

* Margin [dB] = Emission Level [dBµV/m] – Limit [dBµV/m]

7. Test Equipmant Used for Test

Use	Description	Manufacturer	Model Name	Serial Number	Specifications	Next Cal. Data	DUE CAL
■	Spectrum Analyzer	H.P	E4407B	US39010225	9 kHz ~ 26.5 GHz	2015-02-13	1 Year
□	EPM-P SERIES POWER METER	Agilent	E4416A	GB38272722	1 CH 100-240 VAC	2015-08-28	1 Year
□	Power Sensor	Agilent	8481A	US41030240	MAX.23 dBm AVG, 18 GHz	2015-08-28	1 Year
■	Test receiver	ROHDE & SCHWARZ	ESPI3	101171	9 kHz ~ 3 GHz	2015-08-08	1 Year
■	BI-LOG ANT	SCHWARZBECK	VULB 9163	691	30 MHz ~ 1 GHz	2016-02-28	2 Years
■	Loop Antenna	EMCO	6502	9801-3191	9 kHz ~ 30 MHz	2016-02-04	2 Years
□	Horn antenna	Schwarzbeck	BBHA 9120D	769	1 GHz ~ 18 GHz	2015-11-29	2 Years
■	Horn antenna	Schwarzbeck	BBHA 9120D	768	1 GHz ~ 18 GHz	2016-02-26	2 Years
■	Horn antenna	Schwarzbeck	BBHA9170	BBHA9170178	18 GHz ~ 40 GHz	2016-02-26	2 Years
■	Amplifier	310N	291723	SONOMA	9 kHz ~ 1 GHz	2015-08-28	1 Year
■	Amplifier	Agilent	8449B	120005	1 GHz ~ 26.5 GHz	2015-03-10	1 Year
□	DC Power Supply	Maynuo	M8811	080010960011103046	30 V 5 A	2015-08-29	1 Year
■	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESR7	101120	10 Hz ~ 7 GHz	2015-01-03	1 Year
■	LISN	SCHWARZBECK	NSLK 8127	8127518	9 kHz ~ 30 MHz	2015-08-28	1 Year