

FCC REPORT

(WCDMA)

Applicant: HMD global Oy

Address of Applicant: Bertel Jungin aukio 9, 02600 Espoo, Finland

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: TA-1390

Trade mark: NOKIA

FCC ID: 2AJOTTA-1390

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L

Date of sample receipt: 19 Aug., 2021

Date of Test: 20 Aug., to 28 Aug., 2021

Date of report issued: 29 Aug., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	29 Aug., 2021	Original

Tested by:

Mike.ou
Test Engineer

Date:

29 Aug., 2021

Reviewed by:

Winner Zhang
Project Engineer

Date:

29 Aug., 2021

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4. Test Summary

Test Item	Section in CFR 47	Result
RF Output Power Effective Radiated Power and Effective Isotropic Radiated Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4)	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50(d)(5)	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Occupied Bandwidth	Part 2.1049	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Emission Bandwidth	Part 2.1049	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Spurious Emissions at antenna terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Band Edges Compliance	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Field strength of spurious radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass
Frequency stability	Part 22.355 Part 24.235 Part 27.54 Part 2.1055	Refer to the report: SRTC2021-9004(F)- 21040801(B)
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The report: SRTC2021-9004(F)-21040801(B), issued by The State Radio_monitoring_center Testing Center.		
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015	

5. General Information

5.1 Client Information

Applicant:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer/ Factory:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	TA-1390
Operation Frequency range:	WCDMA Band II: 1852.4 MHz-1907.6 MHz WCDMA Band IV: 1712.4 MHz-1752.6 MHz WCDMA Band V: 826.4MHz-846.6MHz
Modulation type:	☒ RMC(QPSK) ☒ HSUPA(QPSK) ☒ HSDPA(QPSK,16QAM)
Antenna type:	Internal Antenna
Antenna gain:	WCDMA Band II: -3.06 dBi(declare by Applicant) WCDMA Band IV: -2.80 dBi(declare by Applicant) WCDMA Band V: -3.46 dBi(declare by Applicant)
Power supply:	Rechargeable Lithium ion Polymer Battery DC3.85V, 4.85Ah
AC adapter:	Adapter 1: Model: TN-050200U3, TN-050200E3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 2: Model: TN-050200U3, TN-050200A3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 3: Model: AD-010A, AD-010X Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency List:

WCDMA Band II		WCDMA Band IV	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.40	1312	1712.40
9263	1852.60	1313	1712.60
....			
9399	1879.80	1412	1732.40
9400	1880.00	1413	1732.60
9401	1880.20	1414	1732.80
...	...	...	...
9537	1907.40	1512	1752.40
9538	1907.60	1513	1752.60
WCDMA Band V			
Channel	Frequency (MHz)		
4132	826.40		
4133	826.60		
....			
4182	836.40		
4183	836.60		
4184	836.80		
...	...		
4232	846.40		
4233	846.60		

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

WCDMA Band II			WCDMA Band IV		
Channel		Frequency(MHz)	Channel		Frequency(MHz)
Lowest	9262	1852.40	Lowest	1312	1712.40
Middle	9400	1880.00	Middle	1413	1732.60
Highest	9538	1907.60	Highest	1513	1752.60
WCDMA Band V					
Channel		Frequency(MHz)			
Lowest	4132	826.40			
Middle	4183	836.60			
Highest	4233	846.60			

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85Vdc, Extreme: Low 3.4 Vdc, High 4.4 Vdc
Test mode:	
RMC mode	Keep the EUT communication with simulated station in RMC mode
HSDPA	Keep the EUT communication with simulated station in HSDPA mode
HSUPA	Keep the EUT communication with simulated station in HSUPA mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	

5.4 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Rohde & Schwarz	CMW500	140493

5.5 Additions to, deviations, or exclusions from the method

No

5.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

5.7 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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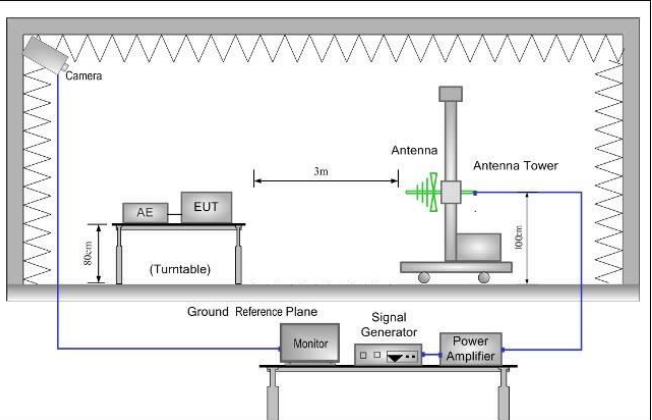
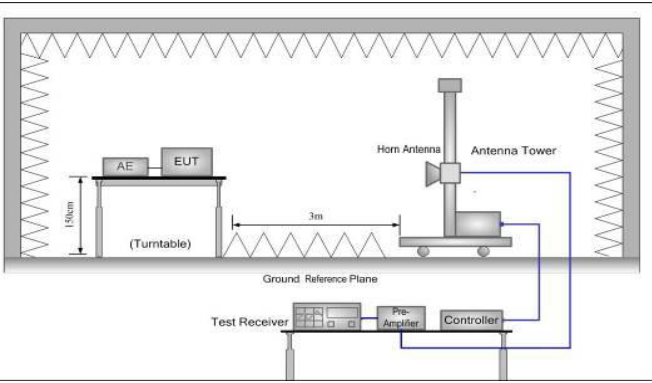
Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	WXJ002	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	HP	8447D	WXG001-2	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2020	11-26-2021
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022
Simulated Station	Rohde & Schwarz	CMW500	WXJ008-3	06-17-2021	06-16-2022
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
RF Switch Unit	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

6. Test results

6.1 Field strength of spurious radiation measurement

Test Requirement:	FCC part 22.917(a), FCC part 24.238(a), FCC part 27.53(h)
Limit:	-13dBm
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):

WCDMA Band II					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1076.2595	20.48	-49.89	-13.00	36.89	Horizontal
1615.8270	19.87	-50.31	-13.00	37.31	Horizontal
2922.9904	21.54	-43.29	-13.00	30.29	Horizontal
4484.3242	50.69	-61.14	-13.00	48.14	Horizontal
9022.8011	47.33	-51.68	-13.00	38.68	Horizontal
17911.4956	46.42	-46.54	-13.00	33.54	Horizontal
1026.0033	20.89	-49.99	-13.00	36.99	Vertical
1701.3377	20.75	-49.23	-13.00	36.23	Vertical
2985.7482	21.03	-43.72	-13.00	30.72	Vertical
4617.8309	50.82	-60.69	-13.00	47.69	Vertical
10040.6020	46.41	-51.58	-13.00	38.58	Vertical
17979.7490	46.74	-46.72	-13.00	33.72	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band II					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1082.2603	20.66	-49.51	-13.00	36.51	Horizontal
1679.8350	20.51	-49.46	-13.00	36.46	Horizontal
2997.7497	20.98	-43.54	-13.00	30.54	Horizontal
3762.0381	52.86	-61.71	-13.00	48.71	Horizontal
8428.0214	47.97	-53.09	-13.00	40.09	Horizontal
17991.7496	47.14	-46.57	-13.00	33.57	Horizontal
1081.0101	20.66	-49.47	-13.00	36.47	Vertical
1683.0854	20.56	-49.40	-13.00	36.40	Vertical
2999.7500	21.01	-43.45	-13.00	30.45	Vertical
5486.3743	49.49	-58.54	-13.00	45.54	Vertical
11231.6616	46.55	-49.22	-13.00	36.22	Vertical
17990.2495	47.39	-46.29	-13.00	33.29	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band II					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1057.5072	20.84	-49.97	-13.00	36.97	Horizontal
1701.8377	20.68	-49.31	-13.00	36.31	Horizontal
2989.7487	21.41	-43.36	-13.00	30.36	Horizontal
5149.6075	49.71	-59.80	-13.00	46.80	Horizontal
10610.6305	46.19	-50.66	-13.00	37.66	Horizontal
17912.2456	46.62	-46.34	-13.00	33.34	Horizontal
1040.5051	20.85	-49.91	-13.00	36.91	Vertical
1862.8579	20.82	-48.97	-13.00	35.97	Vertical
2953.7442	20.92	-43.79	-13.00	30.79	Vertical
6496.6748	48.18	-56.27	-13.00	43.27	Vertical
10602.3801	45.95	-50.90	-13.00	37.90	Vertical
17990.2495	46.87	-46.81	-13.00	33.81	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band IV					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1027.0034	20.73	-50.14	-13.00	37.14	Horizontal
1625.8282	20.35	-49.88	-13.00	36.88	Horizontal
2952.7441	20.88	-43.83	-13.00	30.83	Horizontal
3954.0477	51.27	-62.53	-13.00	49.53	Horizontal
8366.5183	48.00	-53.18	-13.00	40.18	Horizontal
17990.9996	47.09	-46.60	-13.00	33.60	Horizontal
1067.5084	20.57	-50.24	-13.00	37.24	Vertical
2112.1390	32.00	-36.59	-13.00	23.59	Vertical
2999.2499	20.94	-43.53	-13.00	30.53	Vertical
3684.7842	52.58	-62.53	-13.00	49.53	Vertical
10017.3509	46.15	-51.98	-13.00	38.98	Vertical
17912.9957	46.57	-46.38	-13.00	33.38	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band IV					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1086.2608	20.86	-49.43	-13.00	36.43	Horizontal
2507.6885	21.38	-45.22	-13.00	32.22	Horizontal
2962.9954	21.11	-43.69	-13.00	30.69	Horizontal
4464.8232	51.25	-60.65	-13.00	47.65	Horizontal
8861.5431	47.31	-52.65	-13.00	39.65	Horizontal
17910.7455	46.69	-46.27	-13.00	33.27	Horizontal
1031.0039	20.81	-50.02	-13.00	37.02	Vertical
2416.1770	21.21	-45.76	-13.00	32.76	Vertical
2995.9995	21.01	-43.57	-13.00	30.57	Vertical
5201.3601	56.81	-52.09	-13.00	39.09	Vertical
8956.7978	47.23	-52.11	-13.00	39.11	Vertical
17993.2497	47.08	-46.66	-13.00	33.66	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band IV					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1044.0055	20.92	-49.93	-13.00	36.93	Horizontal
1624.5781	20.31	-49.89	-13.00	36.89	Horizontal
2949.7437	21.00	-43.70	-13.00	30.70	Horizontal
4346.3173	51.41	-61.30	-13.00	48.30	Horizontal
10631.6316	46.22	-50.63	-13.00	37.63	Horizontal
17999.2500	47.12	-46.74	-13.00	33.74	Horizontal
1076.5096	20.56	-49.80	-13.00	36.80	Vertical
1702.8379	20.52	-49.50	-13.00	36.50	Vertical
2977.2472	21.10	-43.67	-13.00	30.67	Vertical
4844.3422	50.26	-60.21	-13.00	47.21	Vertical
9049.0525	47.07	-52.05	-13.00	39.05	Vertical
17990.2495	47.14	-46.54	-13.00	33.54	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band V					
Test Channel = Low Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1006.2003	22.42	-64.74	-13.00	51.74	Horizontal
1706.5353	21.74	-67.16	-13.00	54.16	Horizontal
2973.0987	22.58	-60.43	-13.00	47.43	Horizontal
4527.4764	51.33	-60.49	-13.00	47.49	Horizontal
7487.2244	48.33	-53.81	-13.00	40.81	Horizontal
9560.7280	46.27	-52.37	-13.00	39.37	Horizontal
1000.2000	21.47	-65.45	-13.00	52.45	Vertical
1678.1339	21.67	-67.31	-13.00	54.31	Vertical
2981.2991	22.01	-60.96	-13.00	47.96	Vertical
4520.1260	51.69	-60.12	-13.00	47.12	Vertical
7476.3738	48.11	-54.12	-13.00	41.12	Vertical
9588.3794	46.40	-51.95	-13.00	38.95	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band V					
Test Channel = Middle Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1172.0086	22.33	-66.53	-13.00	53.53	Horizontal
1695.2348	24.26	-64.61	-13.00	51.61	Horizontal
2659.6830	22.44	-62.24	-13.00	49.24	Horizontal
5496.3248	49.94	-58.08	-13.00	45.08	Horizontal
7484.4242	48.65	-53.51	-13.00	40.51	Horizontal
9023.4512	47.54	-51.48	-13.00	38.48	Horizontal
1169.6085	22.57	-66.28	-13.00	53.28	Vertical
1938.9469	26.05	-61.90	-13.00	48.90	Vertical
2772.4886	22.21	-61.66	-13.00	48.66	Vertical
5418.6209	49.01	-59.32	-13.00	46.32	Vertical
8010.8505	48.31	-53.45	-13.00	40.45	Vertical
9023.4512	46.90	-52.12	-13.00	39.12	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

WCDMA Band V					
Test Channel = High Channel					
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1135.5068	22.45	-66.43	-13.00	53.43	Horizontal
1931.5466	28.79	-59.22	-13.00	46.22	Horizontal
2788.6894	21.99	-61.71	-13.00	48.71	Horizontal
4908.9955	50.65	-59.51	-13.00	46.51	Horizontal
7467.6234	48.37	-53.93	-13.00	40.93	Horizontal
9888.6944	46.01	-52.26	-13.00	39.26	Horizontal
1170.9085	22.36	-66.49	-13.00	53.49	Vertical
2259.2630	22.27	-64.21	-13.00	51.21	Vertical
2983.6992	22.30	-60.65	-13.00	47.65	Vertical
4666.4333	50.83	-60.56	-13.00	47.56	Vertical
7495.6248	48.34	-53.73	-13.00	40.73	Vertical
9026.6013	47.04	-51.99	-13.00	38.99	Vertical
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.					

7. Test Setup Photo

Reference to the test setup photos: PCE-Test Setup Photo

8. EUT Constructional Details

Reference to the External photo and Internal photo.

-----End of report-----