

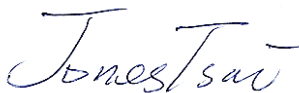
Variant FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : WCDMA, GSM(GPRS)Dual-Mode
Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z791G
FCC ID : SRQ-Z791
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

This is a variant report which is only valid together with the original report. The product was received on Jan. 22, 2015 and testing was completed on Feb. 21, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4N2609-01C	Rev. 01	This is a variant report for Z791G. The product change description could be referred to Appendix C. Based on the similarity between two models, only the worst case of Radiated Spurious Emission from original test report (Sporton Report Number FR4N2609C) was verified.	Mar. 20, 2015



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	RSS-210 A8.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 2.8 dB at 2389.920 MHz



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	WCDMA, GSM(GPRS)Dual-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z791G
FCC ID	SRQ-Z791
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(DownlinkOnly)/ WLAN 2.4GHz 802.11b/g/n HT20/ Bluetooth v2.1 + EDR/Bluetooth v4.0 LE
HW Version	wqpA
SW Version	Z791GV1.0.0B05
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
Antenna Type	PIFA Antenna
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	03CH01-KS	149928

Note: The test site complies with ANSI C63.4 2009 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02
- ANSI C63.10-2009

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

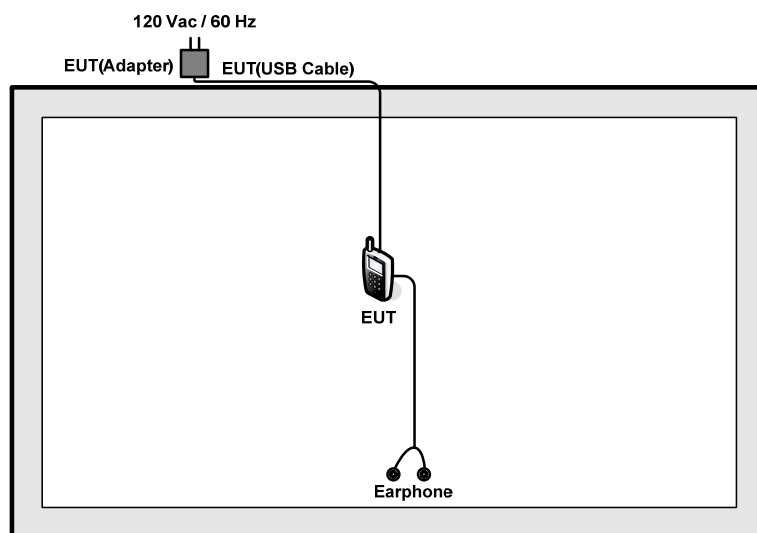
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	Lenovo	SH100	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

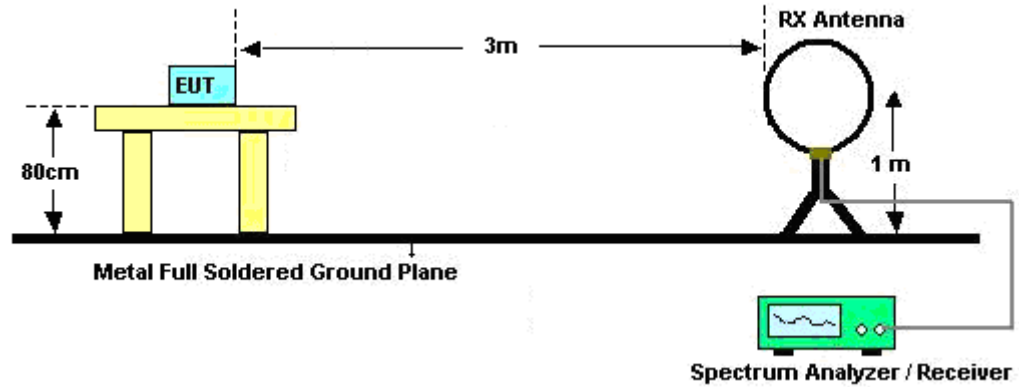
3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 0.8 meter for frequency above 1GHz respectively above ground.
 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
 6. For measurement below 1GHz, 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.
 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
- For average measurement:
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

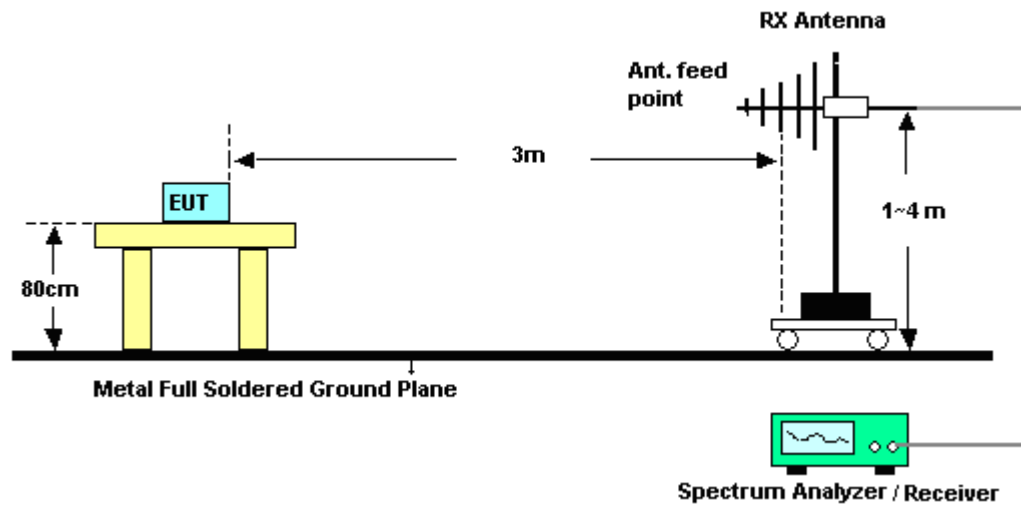
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	97.63	8.24	0.12	300Hz
802.11g	87.18	1.36	0.74	1kHz
2.4GHz 802.11n HT20	86.45	1.28	0.78	1kHz

3.1.4 Test Setup

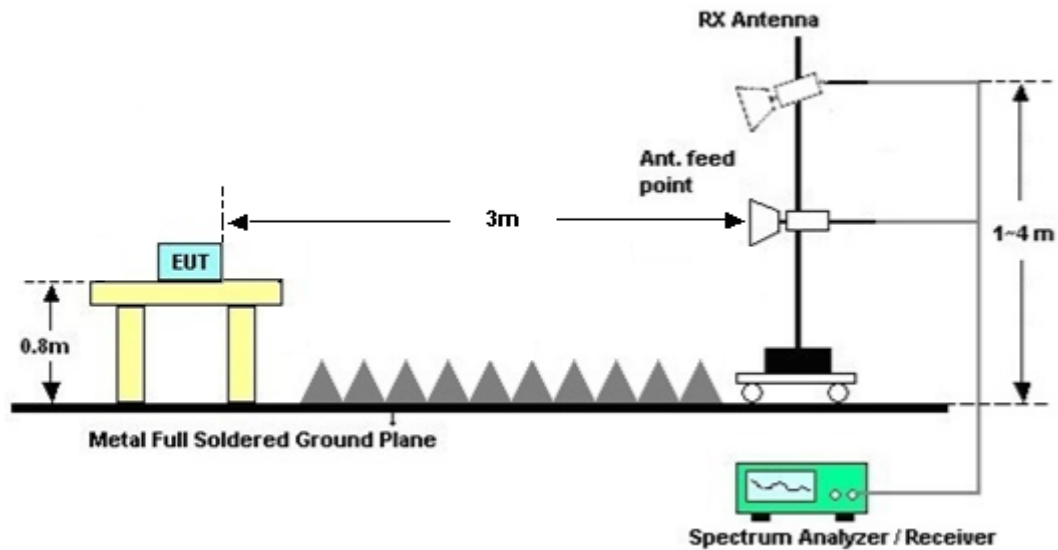
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.1.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Oct. 25, 2014	Feb. 21, 2015	Oct. 24, 2015	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Feb. 21, 2015	May 03, 2015	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 13, 2014	Feb. 21, 2015	Nov. 12, 2015	Radiation (03CH01-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25Mhz-2Ghz	Jan. 17, 2015	Feb. 21, 2015	Jan. 16, 2016	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 17, 2015	Feb. 21, 2015	Jan. 16, 2016	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 08, 2014	Feb. 21, 2015	Nov. 07, 2015	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 10, 2014	Feb. 21, 2015	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz /32dB	May 04, 2014	Feb. 21, 2015	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Oct. 28, 2014	Feb. 21, 2015	Oct. 27, 2015	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 21, 2015	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Feb. 21, 2015	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Feb. 21, 2015	NCR	Radiation (03CH01-KS)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5dB
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Appendix A. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz	*	2412.942	103.73	-	-	99.29	32.89	4.82	33.27	178	183	P	H
	*	2412.775	99.35	-	-	94.91	32.89	4.82	33.27	178	183	A	H
		2387.58	49.59	-24.41	74	45.18	32.86	4.81	33.26	178	183	P	H
		2390	37.19	-16.81	54	32.78	32.86	4.81	33.26	178	183	A	H
	*	2413.026	101.78	-	-	97.34	32.89	4.82	33.27	196	137	P	V
	*	2412.775	97.51	-	-	93.07	32.89	4.82	33.27	196	137	A	V
		2386.68	48.46	-25.54	74	44.05	32.86	4.81	33.26	196	137	P	V
		2390	36.52	-17.48	54	32.11	32.86	4.81	33.26	196	137	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	49.98	-24.02	74	42.04	35.17	6.57	33.8	100	148	P	H
		4824	50.04	-23.96	74	42.1	35.17	6.57	33.8	100	145	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz	*	2417.785	107.51	-	-	103.07	32.89	4.82	33.27	180	0	P	H
	*	2417.618	97.52	-	-	93.08	32.89	4.82	33.27	180	0	A	H
	!	2389.65	70.72	-3.28	74	66.31	32.86	4.81	33.26	180	0	P	H
	!	2390	49.43	-4.57	54	45.02	32.86	4.81	33.26	180	0	A	H
	*	2417.869	106.81	-	-	102.37	32.89	4.82	33.27	200	136	P	V
	*	2417.785	96.87	-	-	92.43	32.89	4.82	33.27	200	136	A	V
	!	2389.29	70.32	-3.68	74	65.91	32.86	4.81	33.26	200	136	P	V
	!	2390	50.01	-3.99	54	45.6	32.86	4.81	33.26	200	136	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C 2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	48.55	-25.45	74	40.61	35.17	6.57	33.8	100	154	P	H
		4824	47.83	-26.17	74	39.89	35.17	6.57	33.8	185	44	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz	*	2418.454	107.62	-	-	103.18	32.89	4.82	33.27	184	0	P	H
	*	2418.454	96.71	-	-	92.27	32.89	4.82	33.27	184	0	A	H
	!	2389.83	71.16	-2.84	74	66.75	32.86	4.81	33.26	184	0	P	H
	!	2389.92	51.2	-2.8	54	46.79	32.86	4.81	33.26	184	0	A	H
	*	2417.451	104.99	-	-	100.55	32.89	4.82	33.27	200	139	P	V
	*	2416.533	93.8	-	-	89.36	32.89	4.82	33.27	200	139	A	V
	!	2389.74	70.32	-3.68	74	65.91	32.86	4.81	33.26	200	139	P	V
	!	2390	49.53	-4.47	54	45.12	32.86	4.81	33.26	200	139	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	48.13	-25.87	74	40.19	35.17	6.57	33.8	100	185	P	H
		4824	49.18	-24.82	74	41.24	35.17	6.57	33.8	145	229	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b LF		34.85	23.6	-16.4	40	41.57	15.1	0.54	33.61	100	185	P	H
		110.51	25.47	-18.03	43.5	46.3	11.8	0.98	33.61	-	-	P	H
		180.35	24.08	-19.42	43.5	48.02	8.4	1.23	33.57	-	-	P	H
		303.54	24.27	-21.73	46	42.95	13.08	1.61	33.37	-	-	P	H
		555.74	24.51	-21.49	46	36.88	18.51	2.13	33.01	-	-	P	H
		779.81	23.93	-22.07	46	34.23	19.87	2.51	32.68	-	-	P	H
		37.76	27.62	-12.38	40	46.97	13.7	0.58	33.63	100	148	P	V
		173.56	20.72	-22.78	43.5	44.13	8.95	1.21	33.57	-	-	P	V
		370.47	22.68	-23.32	46	39.22	15.05	1.75	33.34	-	-	P	V
		544.1	26.82	-19.18	46	39.35	18.39	2.1	33.02	-	-	P	V
		631.4	21.42	-24.58	46	33.27	18.8	2.3	32.95	-	-	P	V
		742.95	25.09	-20.91	46	35.59	19.84	2.45	32.79	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15C Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		32.91	23.7	-16.3	40	40.73	16.04	0.52	33.59	100	184	P	H
		114.39	24.91	-18.59	43.5	45.73	11.8	0.99	33.61	-	-	P	H
		183.26	22.37	-21.13	43.5	46.28	8.43	1.23	33.57	-	-	P	H
		408.3	15.51	-30.49	46	30.92	16.04	1.85	33.3	-	-	P	H
		678.93	19.3	-26.7	46	30.71	19.14	2.36	32.91	-	-	P	H
		935.98	21.49	-24.51	46	30.46	20.67	2.8	32.44	-	-	P	H
		35.82	29.84	-10.16	40	48.26	14.65	0.55	33.62	155	85	P	V
		104.69	21.91	-21.59	43.5	43.42	11.15	0.95	33.61	-	-	P	V
		173.56	14.72	-28.78	43.5	38.13	8.95	1.21	33.57	-	-	P	V
		425.76	16.66	-29.34	46	31.86	16.16	1.89	33.25	-	-	P	V
		696.39	23.11	-22.89	46	34.33	19.28	2.38	32.88	-	-	P	V
		940.83	26.53	-19.47	46	35.47	20.69	2.81	32.44	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15C Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		30.97	22.03	-17.97	40	37.83	17.29	0.49	33.58	174	184	P	H
		114.39	24.91	-18.59	43.5	45.73	11.8	0.99	33.61	-	-	P	H
		183.26	21.37	-22.13	43.5	45.28	8.43	1.23	33.57	-	-	P	H
		286.08	19.01	-26.99	46	38.06	12.78	1.56	33.39	-	-	P	H
		408.3	21.51	-24.49	46	36.92	16.04	1.85	33.3	-	-	P	H
		529.55	24.79	-21.21	46	37.74	18.02	2.09	33.06	-	-	P	H
		35.82	26.84	-13.16	40	45.26	14.65	0.55	33.62	132	66	P	V
		51.34	25.03	-14.97	40	50.74	7.21	0.66	33.58	-	-	P	V
		179.38	19.44	-24.06	43.5	43.32	8.47	1.22	33.57	-	-	P	V
		324.88	16.49	-29.51	46	34.46	13.75	1.65	33.37	-	-	P	V
		557.68	20.76	-25.24	46	33.12	18.51	2.14	33.01	-	-	P	V
		936.95	20.15	-25.85	46	29.12	20.67	2.8	32.44	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency per 15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix C Product Change Description

ZTE CORPORATION**Product Change Description**

As the applicant of the below model, [ZTE Corporation] declares that the product,

[Z791G]
[ZTE Corporation]

is the variant of the initial certified product,

[Z791]
[ZTE Corporation]

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO

MMS/STK changes: NO

JAVA changes: NO

Other changes detailed:

Changed the GPRS/EDGE class power 10.

AMR only support NB.

Software Version change from: MPC5_Z791V1.0.0B04 to
Z791GV1.0.0B05

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: NO

Antenna changes: NO

PCB Layout changes: Yes,

Components on PCB changes: Yes, there is only small change on PCB so that make the new camera/SIM card socket/earphone compatible.

Hardware Version change from: wtjA to wqpA

LCD changes: NO

Speaker changes: NO

Camera changes: Yes, the camera is changed from FF to AF

Vibrator changes: NO

Bluetooth changes: NO

FM changes: NO

Other changes: Yes

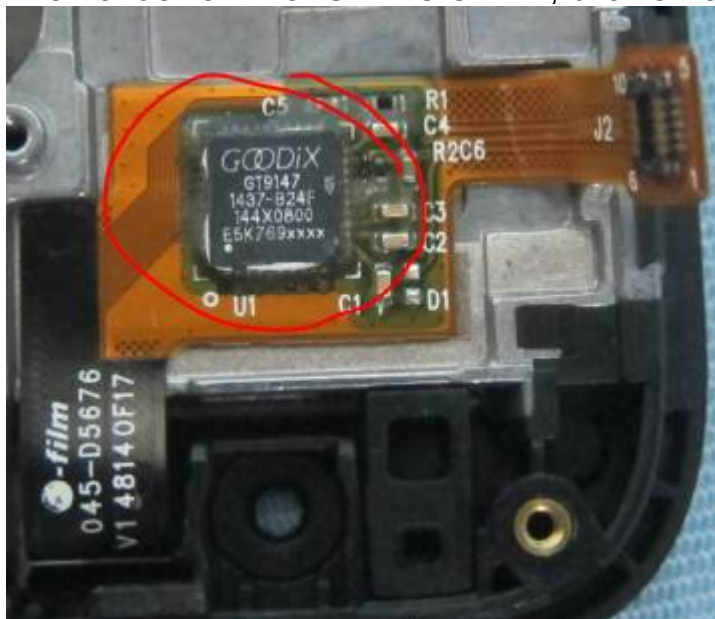
The SIM card socket is changed from push-push type to push-pull type

The earphone jack is changed from 13.1X6.6X4.55mm to 8.7*12.66*4.2mm

The vender of Z791 TP is OFILM, the IC vender is Focal tech.



The vender of Z791G TP is OFILM, the IC vender is GOODIX.



But the performance of both TP are the same.

The Diversity ANT change
From Z791:



To Z791G



MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO

Mechanical shell changes: there is only small change on PCB so that make the new camera/SIM card socket/earphone compatible.

Other changes detailed: NO

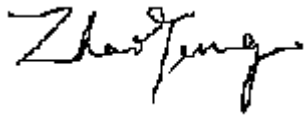
ACCESSORY MODIFICATIONS:

Battery changes: NO

AC Adaptor changes: Yes,

The AC Adaptor is changed from 5V/1.5A to 5V/1A

Earphone changes: NO



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