



FCC RADIO TEST REPORT

FCC ID : XV2SC415C61
Equipment : SC415 Universal Tank Monitor
Brand Name : Anova
Model Name : SC415C6-E2
Applicant : Silicon Controls Pty Ltd
Suite 1, 33 Waterloo Road; Macquarie Park
NSW 2113 AUSTRALIA
Manufacturer : Silicon Controls Pty Ltd
Suite 1, 33 Waterloo Road; Macquarie Park
NSW 2113 AUSTRALIA
Standard : FCC 47 CFR Part 2, 22(H), 24(E)

The product was received on Jan. 21, 2021 and testing was started from Feb. 05, 2021 and completed on Mar. 10, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG111807A	01	Initial issue of report	Jun. 04, 2021



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(2)	Effective Radiated Power (GSM850)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (GSM1900)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b)	Occupied Bandwidth (GSM850) (GSM1900)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a)	Band Edge Measurement (GSM850) (GSM1900)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a)	Conducted Emission (GSM850) (GSM1900)	-	See Note
-	§2.1055 §22.355 §24.235	Frequency Stability Temperature & Voltage	-	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a)	Field Strength of Spurious Radiation (GSM850) (GSM1900)	Pass	Under limit 21.63 dB at 2512.000 MHz

Remark: The module (Model: ME910G1-WW) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Cindy Liu

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/LTE.

Product Specification subjective to this standard		
Antenna Type	WWAN: PCB Antenna	
Antenna information		
Cellular Band	Peak Gain (dBi)	0.5
PCS Band	Peak Gain (dBi)	1.4

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory	
Test Site Location	No.52 , Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH03-HY	03CH07-HY
Test Engineer	Oscar Chi	Jesse Wang, Stan Hsieh and Ken Wu
Temperature	20~25°C	19~25°C
Relative Humidity	50~60%	46~60%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

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.
3. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y Plane for Cellular Band and X Plane for PCS Band) were recorded in this report.

Radiated emissions were investigated as following frequency range:

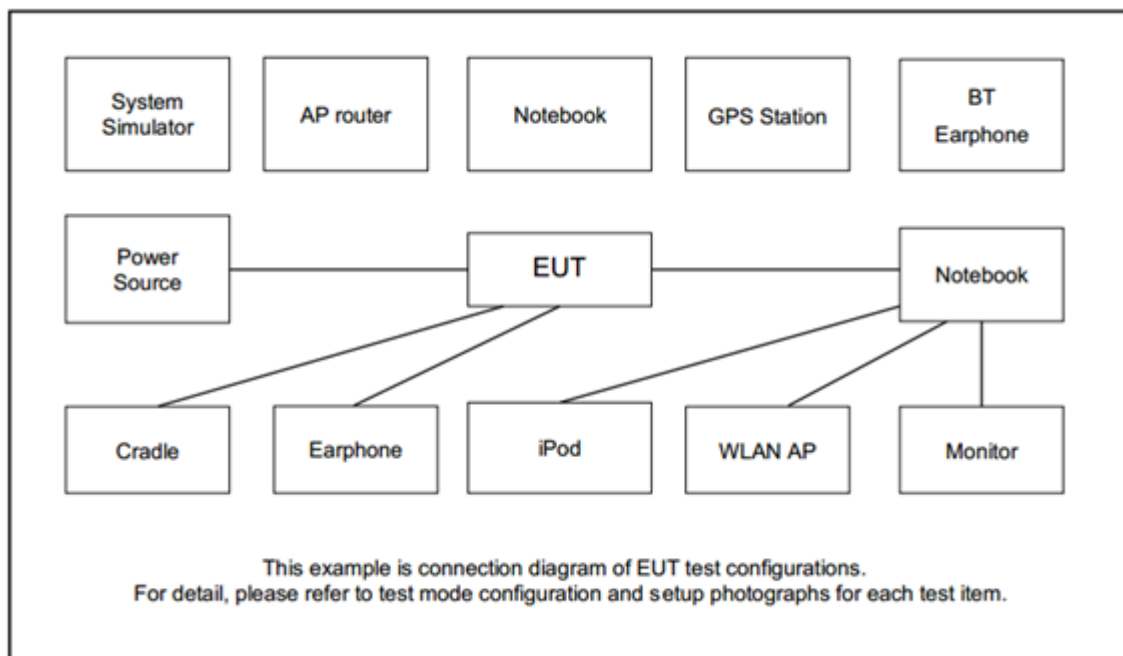
1. 30 MHz to 9000 MHz for GSM850
2. 30 MHz to 19100 MHz for GSM1900

All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM850	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
GSM1900	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10 dB attenuator.

Example:

$Offset(dB) = RF\ cable\ loss(dB) + attenuator\ factor(dB).$

$= 4.2 + 10 = 14.2\ (dB)$

2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8

3 Conducted Test Result

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

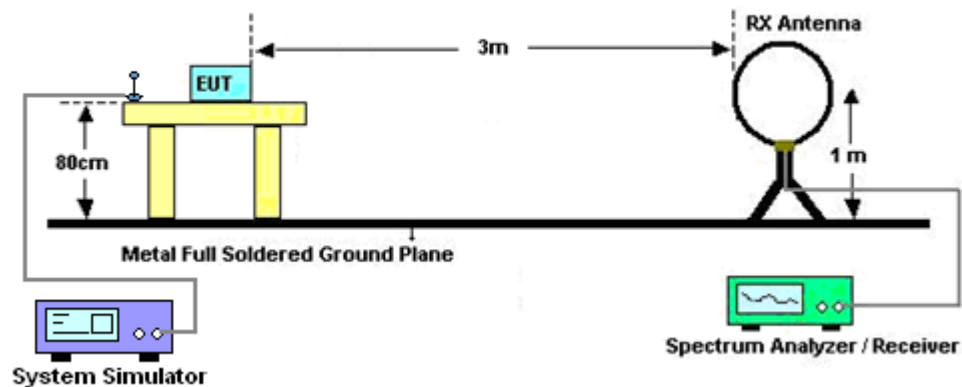
4 Radiated Test Items

4.1 Measuring Instruments

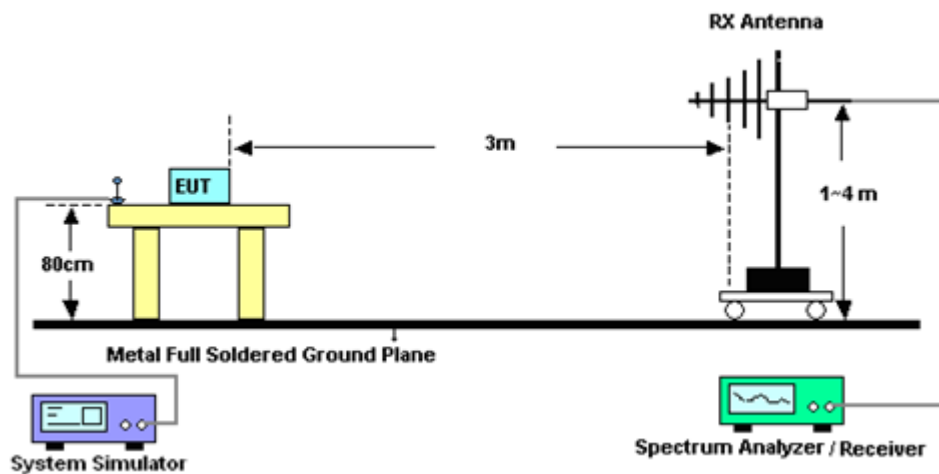
See list of measuring instruments of this test report.

4.2 Test Setup

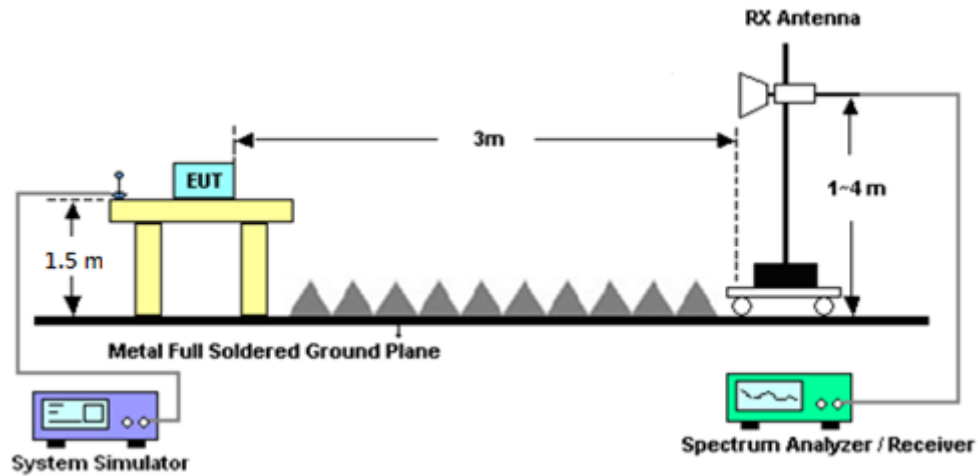
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Take the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Feb. 05, 2021~ Feb. 18, 2021	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2020	Feb. 05, 2021~ Feb. 18, 2021	Nov. 30, 2021	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Feb. 05, 2021~ Feb. 18, 2021	Jan. 03, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Feb. 05, 2021~ Feb. 18, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Feb. 05, 2021~ Feb. 18, 2021	Jun. 08, 2021	Radiation (03CH07-HY)
Filter	Microwave	H1G013G1	SN477215	1GHz High Pass Filter	Oct. 31, 2020	Feb. 05, 2021~ Feb. 18, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477219	3GHz High Pass Filter	Oct. 31, 2020	Feb. 05, 2021~ Feb. 18, 2021	Oct. 30, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,801 606/2	18GHz~40GHz	Feb. 25, 2020	Feb. 05, 2021~ Feb. 18, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Feb. 05, 2021~ Feb. 18, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Feb. 05, 2021~ Feb. 18, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Feb. 05, 2021~ Feb. 18, 2021	Feb. 24, 2021	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Dec. 02, 2020	Feb. 05, 2021~ Feb. 18, 2021	Dec. 01, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	EMCO	3117	00227880	1 -18 GHz	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA9170	BBHA9170980	18GHz-40GHz	N/A	Feb. 05, 2021~ Feb. 18, 2021	N/A	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 04, 2020	Feb. 05, 2021~ Feb. 18, 2021	Dec. 03, 2021	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34913904	N/A	Jul. 27, 2020	Mar. 10, 2021	Jul. 26, 2021	Conducted (TH03-HY)
Base Station(Measur e)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Sep. 07, 2020	Mar. 10, 2021	Sep. 06, 2021	Conducted (TH03-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.35
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.81
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.85
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GPRS class 8	31.84	31.54	31.47	29.37	29.30	29.15
GPRS class 10	29.78	29.44	29.39	26.85	26.80	26.57
GPRS class 11	28.29	28.18	28.22	25.55	25.46	25.23
GPRS class 12	25.97	25.77	25.64	24.22	24.11	23.87
EGPRS class 8	26.52	26.23	26.14	25.62	25.42	25.37
EGPRS class 10	23.98	23.69	23.64	23.05	22.84	22.81
EGPRS class 11	22.88	22.58	22.55	21.95	21.74	21.69
EGPRS class 12	20.52	20.35	20.31	19.84	19.68	19.62



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	GSM850	31.84	1.5276	30.19	1.0447
Middle	GPRS class 8	31.54	1.4256	29.89	0.9750
Highest	(GT - LC = 0.5 dB)	31.47	1.4028	29.82	0.9594
Lowest	GSM850	26.52	0.4487	24.87	0.3069
Middle	EDGE class 8	26.23	0.4198	24.58	0.2871
Highest	(GT - LC = 0.5 dB)	26.14	0.4111	24.49	0.2812
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900	29.37	0.8650	30.77	1.1940
Middle	GPRS class 8	29.30	0.8511	30.70	1.1749
Highest	(GT - LC = 1.4 dB)	29.15	0.8222	30.55	1.1350
Lowest	GSM1900	25.62	0.3648	27.02	0.5035
Middle	EDGE class 8	25.42	0.3483	26.82	0.4808
Highest	(GT - LC = 1.4 dB)	25.37	0.3443	26.77	0.4753
Limit	EIRP < 2W	Result		PASS	

**Radiated Spurious Emission****GPRS850**

GPRS 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-38.34	-13	-25.34	-49.58	-40.1	0.98	4.89	H
	2472	-49.72	-13	-36.72	-66.51	-51.6	1.28	5.32	H
	3296	-43.19	-13	-30.19	-62.36	-46.6	1.54	7.10	H
									H
									H
									H
	1648	-40.04	-13	-27.04	-52.18	-41.8	0.98	4.89	V
	2474	-51.21	-13	-38.21	-68.59	-53.1	1.28	5.32	V
	3296	-48.09	-13	-35.09	-67.39	-51.5	1.54	7.10	V
									V
									V
									V
Middle	1672	-37.12	-13	-24.12	-48.97	-38.8	0.99	4.82	H
	2512	-35.33	-13	-22.33	-52.06	-37.3	1.29	5.41	H
	3344	-34.99	-13	-21.99	-54.45	-38.6	1.56	7.31	H
									H
									H
									H
	1672	-39.52	-13	-26.52	-52.21	-41.2	0.99	4.82	V
	2512	-34.63	-13	-21.63	-52.2	-36.6	1.29	5.41	V
	3344	-35.39	-13	-22.39	-54.81	-39	1.56	7.31	V
									V
									V
									V



Highest	1696	-48.00	-13	-35.00	-59.93	-49.6	1.00	4.75	H
	2544	-55.82	-13	-42.82	-72.51	-57.8	1.30	5.44	H
	3392	-49.50	-13	-36.50	-69.14	-53.3	1.57	7.52	H
									H
									H
									H
									H
	1696	-49.10	-13	-36.10	-61.72	-50.7	1.00	4.75	V
	2544	-56.92	-13	-43.92	-74.44	-58.9	1.30	5.44	V
	3392	-48.00	-13	-35.00	-67.69	-51.8	1.57	7.52	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EDGE 850**

EDGE 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-51.54	-13	-38.54	-63.16	-53.3	0.98	4.89	H
	2472	-58.32	-13	-45.32	-75.24	-60.2	1.28	5.32	H
	3296	-56.19	-13	-43.19	-75.43	-59.6	1.54	7.10	H
									H
									H
									H
									H
	1648	-53.34	-13	-40.34	-65.13	-55.1	0.98	4.89	V
	2474	-58.41	-13	-45.41	-75.38	-60.3	1.28	5.32	V
	3296	-56.89	-13	-43.89	-76	-60.3	1.54	7.10	V
									V
									V
									V
									V
Middle	1672	-52.52	-13	-39.52	-64.22	-54.2	0.99	4.82	H
	2512	-58.83	-13	-45.83	-75.69	-60.8	1.29	5.41	H
	3344	-56.69	-13	-43.69	-76.2	-60.3	1.56	7.31	H
									H
									H
									H
									H
	1672	-54.12	-13	-41.12	-66.44	-55.8	0.99	4.82	V
	2512	-58.43	-13	-45.43	-75.89	-60.4	1.29	5.41	V
	3344	-56.89	-13	-43.89	-76.16	-60.5	1.56	7.31	V
									V
									V
									V
									V



Highest	1696	-55.60	-13	-42.60	-67.89	-57.2	1.00	4.75	H
	2544	-58.42	-13	-45.42	-75.56	-60.4	1.30	5.44	H
	3392	-52.30	-13	-39.30	-71.67	-56.1	1.57	7.52	H
									H
									H
									H
									H
	1696	-54.10	-13	-41.10	-66.49	-55.7	1.00	4.75	V
	2544	-58.12	-13	-45.12	-75.32	-60.1	1.30	5.44	V
	3392	-55.30	-13	-42.30	-74.88	-59.1	1.57	7.52	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**GPRS 1900**

GPRS 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-37.63	-13	-24.63	-57.97	-44.2	1.67	8.24	H
	5550	-54.63	-13	-41.63	-79.78	-61.7	2.65	9.72	H
	7401	-53.06	-13	-40.06	-79.85	-62.2	2.46	11.60	H
									H
									H
									H
									H
	3702	-40.23	-13	-27.23	-60.8	-46.8	1.67	8.24	V
	5550	-53.63	-13	-40.63	-78.76	-60.7	2.65	9.72	V
	7401	-53.36	-13	-40.36	-79.93	-62.5	2.46	11.60	V
									V
									V
									V
									V
Middle	3762	-40.47	-13	-27.47	-60.65	-47.1	1.69	8.31	H
	5640	-45.55	-13	-32.55	-70.73	-52.6	2.71	9.76	H
	7520	-52.21	-13	-39.21	-79.3	-61.6	2.42	11.81	H
									H
									H
									H
									H
	3762	-41.67	-13	-28.67	-62.15	-48.3	1.69	8.31	V
	5640	-42.55	-13	-29.55	-68.2	-49.6	2.71	9.76	V
	7520	-52.41	-13	-39.41	-79.63	-61.8	2.42	11.81	V
									V
									V
									V
									V



Highest	3822	-42.02	-13	-29.02	-62.61	-48.7	1.71	8.39	H
	5730	-53.57	-13	-40.57	-79.23	-60.6	2.76	9.79	H
	7640	-52.60	-13	-39.60	-79.59	-62.1	2.38	11.88	H
									H
									H
									H
									H
	3822	-42.12	-13	-29.12	-62.59	-48.8	1.71	8.39	V
	5730	-52.27	-13	-39.27	-77.85	-59.3	2.76	9.79	V
	7640	-52.30	-13	-39.30	-79.78	-61.8	2.38	11.88	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EDGE1900**

EDGE 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-45.11	-13	-32.11	-65.98	-51.68	1.67	8.24	H
	5550	-36.12	-13	-23.12	-61.65	-43.19	2.65	9.72	H
	7401	-52.91	-13	-39.91	-80.03	-62.05	2.46	11.60	H
									H
									H
									H
									H
	3702	-47.75	-13	-34.75	-68.61	-54.32	1.67	8.24	V
	5550	-53.15	-13	-40.15	-78.65	-60.22	2.65	9.72	V
	7401	-52.52	-13	-39.52	-79.85	-61.66	2.46	11.60	V
									V
									V
									V
									V
Middle	3762	-47.78	-13	-34.78	-68.63	-54.41	1.69	8.31	H
	5640	-39.97	-13	-26.97	-65.71	-47.02	2.71	9.76	H
	7520	-52.63	-13	-39.63	-79.89	-62.02	2.42	11.81	H
									H
									H
									H
									H
	3762	-47.44	-13	-34.44	-68.31	-54.07	1.69	8.31	V
	5640	-35.46	-13	-22.46	-61.18	-42.51	2.71	9.76	V
	7520	-52.23	-13	-39.23	-79.74	-61.62	2.42	11.81	V
									V
									V
									V
									V



Highest	3822	-49.10	-13	-36.10	-69.88	-55.78	1.71	8.39	H
	5730	-53.09	-13	-40.09	-79.14	-60.12	2.76	9.79	H
	7640	-52.44	-13	-39.44	-80	-61.94	2.38	11.88	H
									H
									H
									H
									H
	3822	-50.31	-13	-37.31	-71.16	-56.99	1.71	8.39	V
	5730	-53.42	-13	-40.42	-79.46	-60.45	2.76	9.79	V
	7640	-52.33	-13	-39.33	-80.16	-61.83	2.38	11.88	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.