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Applicant:	AB CIRCLE LIMITED Room 609, Cross Office Uchisaiwaicho, 1-18-6, Nishi-Shimbashi, Minatoku, Tokyo, Japan 105-003	
Manufacturer:	AB CIRCLE LIMITED Room 609, Cross Office Uchisaiwaicho, 1-18-6, Nishi-Shimbashi, Minatoku, Tokyo, Japan 105-003	
Description of Sample(s):	Product: Brand Name: Model Number: FCC ID:	Contactless Smart Card Reader with Keyboard Emulation AB Circle Limited CIR615A 2AUVM-CIR615A
Date Sample(s) Received:	2022-05-31	
Date Tested:	2022-06-20 to 202	2-07-07
Investigation Requested:	Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10:2013 for FCC Certification.	
Conclusion(s):	The submitted product <u>COMPLIED</u> with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.	
Remark(s):		





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<u>1.0</u> General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Manufacturer:	Contactless Smart Card Reader with Keyboard Emulation AB CIRCLE LIMITED Room 609, Cross Office Uchisaiwaicho, 1-18-6, Nishi-Shimbashi, Minatoku, Talwa, Japan 105,002
Brand Name	AB Circle Limited
Model Number:	CIR615A
Operating Frequency	13.56MHz +/- 7KHGz
Modulation	ASK
Antenna / Gain	Integral (inductive type), Gain : -38.1dBi
Rating:	5Vd.c. of USB port of EUT

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is 13.56MHz Contactless Smart Card Reader with Keyboard Emulation, which is 13.56MHz transceiver fixed transmit at 13.56MHz, the modulation is ASK type which is provided by IC. The module RF transmission configuration is controlled by software APDU.exe.

1.3 Date of Order

2022-05-31

1.4 Submitted Sample(s):

4 Samples

1.5 Test Duration

2022-06-20 to 2022-07-07

1.6 Country of Origin

Not Provided



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2.0 <u>Technical Details</u>

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10:2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

	Results Summary					
Test Condition	Test Requirement	Test Method	Class /	Test H	Result	
			Severity	Pass	Fail	
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.225(a-d)	ANSI C63.10:2013	N/A	\boxtimes		
The Frequency Tolerance of Carrier Signal	FCC 47CFR 15.225(e)	ANSI C63.10:2013	N/A			
20 dB Bandwidth	FCC 47CFR 15.215	ANSI C63.10:2013	N/A	\square		
Radio Frequency powered Tags	FCC 47CFR 15.225(f)	ANSI C63.10:2013	N/A	N	Ά	
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A	\boxtimes		
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	\boxtimes		
AC power-line conducted emissions	FCC 47CFR 15.207	ANSI C63.10:2013	N/A	\boxtimes		

Note: N/A - Not Applicable



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- 3.0 Test Results
- 3.1 Emission

3.1.1 Field Strength of Fundamental & Harmonics Emissions

Test Requirement:	FCC 47CFR 15.225 a to d
Test Method:	ANSI C63.10:2013
Test Date:	2022-06-22
Mode of Operation:	On mode connected to PC

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. FCC Test Firm Registration Number <u>723883</u> Designation Number <u>HK0001</u>



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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: VBW: Sweep: Span: Trace:	10kHz 30kHz Auto Fully capture the emissions being measured Max. hold
30MHz – 1GHz (QP)	RBW: VBW: Sweep: Span: Trace:	120kHz 120kHz Auto Fully capture the emissions being measured Max. hold
Above 1GHz (Pk & Av)	RBW: VBW: Sweep: Span: Trace:	3MHz 3MHz Auto Fully capture the emissions being measured Max. hold

Test Setup:



Ground Plane

- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.

- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used,

9kHz to 30MHz loop antennas are used.

-For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.225]:

Fundamental frequency	Field strength of fundamental
[MHz]	(microvolts /meter)
13.553–13.567 MHz	15848uV@30m
	(84dBuV/m)
13.410–13.553 MHz	334uV@30m
and 13.567-13.710 MHz	(50.4dBuV/m)
13.110–13.410 MHz	106uV@30m
and 13.710-14.010 MHz	(40.5dBuV/m)
outside of the 13.110-	Refer to 15.209
14.010 MHz	

Result of On mode connected to PC: Pass





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Result of On mode connected to PC: Pass [FCC 47CFR 15.225a]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.553 - 13.567	51.62@13.56MHz	11.62@13.56MHz	84.0

Result of On mode connected to PC: Pass [FCC 47CFR 15.225b]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.410-13.553 and 13.567-	32.72@13.464MHz	-7.28@13.464MHz	50.4
13.710	33.35@13.66MHz	-6.65@13.66MHz	30.4

Result of On mode connected to PC: Pass [FCC 47CFR 15.225c]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.110-13.410 and 13.710-	33.47 @13.348MHz	-6.53 @13.348MHz	40.5
14.010	33.6@13.773MHz	-6.4@13.772MHz	40.5

Result of On mode connected to PC: Pass [FCC 47CFR 15.225d]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
Others frequencies < 30MHz	24.95 @14.408MHz	-15.05@14.408MHz	29.5

Remark:

The Measurement was performed at 3m distance between the EUT and the receiving antenna, the distance factor was applied to at the spectrum analyzer, the correction factor is equal to 40dB. The distance factor from 3m to 30m was refer to C63.10:2013.

Formula:

Highest Field strength calculated @30m = Highest Field strength measured @3m - Correction Factor

Calculated measurement uncertainty :

9kHz to 30MHz: 2.4dB 30MHz to 18GHz: 5.0dB 18GHz - 26.5Hz: 5.24dB



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3.1.2 20DB BANDWIDTH

Ambient Temperature: 25°C

Relative Humidity: 45%

Test Requirement:FCC 47CFR 15.215Test Method:ANSI C63.10:2013Test Date:2022-06-24Mode of Operation:On mode connected to PC



Ground Plane



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Units in dBuV/m



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3.1.3 THE FREQUENCY TOLERANCE OF CARRIER SIGNAL

Ambient Temperature: 25°C

Relative Humidity: 45%

Test Requirement:	FCC 47CFR 15.225e
Test Method:	ANSI C63.10:2013
Test Date:	2022-06-24
Mode of Operation:	On mode connected to PC

The frequency tolerance, results: PASS

TEST CO	NDITIONS	Measured	Frequency Error		
		Frequency (MHz)	(%)		
		F _{carrier} (MHz)			
Tnom: 25 °C	Unom: 5.0Vd.c.	13.5601	N/A		
Ulow: -20°C	Umax: 5.75Vd.c.	13.5600	-0.0007		
	Umin: 4.25Vd.c.	13.5602	0.0007		
Tmax: 50°C	Umax: 5.75Vd.c.	13.56006	-0.0003		
	Umin: 4.25Vd.c.	13.56006	-0.0003		
	Max. Freq. Error (%)		0.0015		
Limit		±0.01%			
Measurement uncertainty		<±1* 10 ⁻⁷			



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3.1.4 Radiated Emissions

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
0.009-0.490	2400/F (KHZ)@300m
0.490-1.705	24000/F (kHz)@30m
1.705-30	30@30m
30-88	100@3m
88-216	150@3m
216-960	200@3m
Above960	500@3m

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Remarks:

The Measurement was performed at 3m distance between the EUT and the receiving antenna. And the correction factor was included antenna factor and distance factor (3m to 30m) which shown on the pre-scan plot and the final value.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate in the table below is the worst case rate with respect to the specific test item.

Investigation has been done on all the possible configurations for searching the worst cases.



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Result of On mode connected to PC, (9kHz - 30MHz): PASS





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Horizontal Marker 1 [T1] Det MA/QP/AV Trd E_BILOG Att 0 dB AUTO 40.64 dBNV/m ResBW 120 kHz Preamp INPUT 2 189.84000000 MHz Meas T 1 s Unit dBNV/m 100 MHz 1 GHz FCC1 MANA Mh. When 30 MHz 1 GHz

Pre-scan result of On mode connected to PC (30MHz – 1GHz):

Vertical





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	Field Strength of Fundamental and Harmonics Emissions												
Quasi-Peak Value													
Frequency	Measured	Field	Field	Limit @3m	E-Field								
	Level @3m	Strength	Strength		Polarization								
MHz	dBµV/m	dBµV/m	μV/m	μV/m									
67.8	29.1	29.1	28.5	150	Horizontal								
189.8	40.6	40.6	107.6	150	Horizontal								
217.0	38.4	38.4	83.1	200	Horizontal								
297.2	36.3	36.3	65.2	200	Horizontal								
40.7	26.4	26.4	20.9	200	Vertical								
68.2	25.1	25.1	18.0	200	Vertical								
189.8	34.4	34.4	34.4 52.3		Vertical								
	20 dB belo												

Result of On mode connected to PC (30MHz - 1GHz): PASS

Result of On mode connected to PC, (1GHz – 18GHz):

Not listed Emissions detected are more than 20 dB below the FCC Limits

Remarks:

The pre-scan results are for reference, the frequencies found will perform final measurement which shown on the table below the graphs, therefore, there may be some different in measured frequencies and field strength shown on the graph and the table.

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty	: (9kHz – 30MHz):	2.4dB
-	(30MHz – 18GHz):	5.0dB
	(18GHz - 26GHz):	5.24dB



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3.1.5 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:
Test Method:
Test Date:
Mode of Operation:

FCC 47CFR 15.207 Class B ANSI C63.10: 2013 2022-06-25 *On mode connected to PC

Test Method:

The test was performed in accordance with ANSI C63.10: 2013, with the following: initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



Remarks:



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Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On mode connected to PC (Live and Neutral): PASS

Please refer to the following tables for individual results.





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MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency	Level	Transducer	Limit (dBuV)	Margin (dB)	Line	Test
(11112)	(αυμν)	raccor (ab)	(00000)	(UD)		
0.158000	46.90	19.9	66	18.7	L1	GND
0.258000	31.50	20.0	62	30.0	L1	GND
0.490000	36.90	20.0	56	19.3	L1	GND
0.938000	24.40	20.0	56	31.6	L1	GND
1.810000	22.20	20.0	56	33.8	L1	GND
3.486000	23.30	20.1	56	32.7	L1	GND
4.682000	28.00	20.1	56	28.0	Ν	GND
10.022000	26.40	20.2	60	33.6	Ν	GND
13.558000	45.40	20.2	60	14.6	L1	GND
17.854000	19.40	20.1	60	40.6	L1	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Level (dBµV)	Transducer Factor (dB)	Limit (dBµV)	Margin (dB)	Line	Test
35.10	19.9	56	20.5	L1	GND
20.30	20.0	51	30.9	L1	GND
28.80	20.0	46	17.5	L1	GND
17.20	20.0	46	28.8	L1	GND
13.90	20.0	46	32.1	Ν	GND
16.60	20.1	46	29.4	Ν	GND
20.60	20.1	46	25.4	Ν	GND
19.60	20.2	50	30.4	Ν	GND
36.80	20.2	50	13.2	L1	GND
9.90	20.1	50	40.1	L1	GND
	Level (dBµV) 35.10 20.30 28.80 17.20 13.90 16.60 20.60 19.60 36.80 9.90	Level Transducer (dBµV) Factor (dB) 35.10 19.9 20.30 20.0 28.80 20.0 17.20 20.0 13.90 20.0 16.60 20.1 20.60 20.1 19.60 20.2 36.80 20.2 9.90 20.1	Level Transducer Limit (dBµV) Factor (dB) (dBµV) 35.10 19.9 56 20.30 20.0 51 28.80 20.0 46 17.20 20.0 46 13.90 20.0 46 16.60 20.1 46 20.60 20.1 46 19.60 20.2 50 36.80 20.2 50 9.90 20.1 50	Level Transducer Limit Margin (dBµV) Factor (dB) (dBµV) (dB) 35.10 19.9 56 20.5 20.30 20.0 51 30.9 28.80 20.0 46 17.5 17.20 20.0 46 28.8 13.90 20.0 46 32.1 16.60 20.1 46 29.4 20.60 20.1 46 25.4 19.60 20.2 50 30.4 36.80 20.2 50 13.2 9.90 20.1 50 40.1	LevelTransducerLimitMarginLine(dBμV)Factor (dB)(dBμV)(dB)(dB)35.1019.95620.5L120.3020.05130.9L128.8020.04617.5L117.2020.04628.8L113.9020.04632.1N16.6020.14629.4N20.6020.14625.4N19.6020.25030.4N36.8020.25013.2L19.9020.15040.1L1



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3.1.6 Antenna Requirement

Ambient temperature 25°C

Relative humidity 50%

Test Requirements: § 15.203

Test Specification:

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.

Test Results:

This is PCB antenna. There is no external antenna, the antenna gain is -38.1dBi. User is unable to remove or changed the Antenna.



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APPENDIX A

List of Measurement Equipment

Radiated Emission

EQP NO	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
NO.		51/00	2000	00004/57/	27/1	NY/4
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM353	Active Loop Antenna	ETS-Lindgren	6502	206533	2020-06-10	2023-06-10
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Lindgren	FACT-3		2019-04-16	2024-04-16
EM355	BICONILOG ANTENNA	ETS-Lindgren	3143B	00201783	2022-06-17	2023-06-17
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2022-05-30	2023-05-30
EM363	SIGNAL ANALYZER (10Hz - 40GHz)	ROHDE & SCHWARZ	FSV40	101231	2022-01-24	2024-01-24
EM364	OPEN SWITCH PERFORM	ROHDE & SCHWARZ	OSP-B157W8	101002	2019-05-03	2023-07-29
EM365	SIGNAL GENERATOR	ROHDE & SCHWARZ	SMB100A	179970	2022-01-20	2024-01-20
EM367	WIRELESS COMMUNICATION TESTER	ROHDE & SCHWARZ	CMW270	101998	N/A	N/A
EM368	VECTOR SIGNAL GENERATOR	ROHDE & SCHWARZ	SMBV100A	261243	2022-01-20	2024-01-20

Electro-Static Discharge

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL	
EM102	VERTICAL COUPLING PLANE	HKSTC	N/A	N/A	CM	N/A	
EM103	HORIZONTAL COUPLING PLANE	HKSTC	N/A	N/A	СМ	N/A	
EM220	ESD SIMULATOR	SCHAFFNER	NSG438	296	2021-03-19	2023-03-19	

	Radiated Immunity												
EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL							
EM082	ANECHOIC CHAMBER	FELJAS & MASSON	N/A	N/A	2019-04-16	2024-04-16							
EM045	POWER METER	ROHDE & SCHWARZ	NRVD	843246/028	2020-12-28	2022-12-28							
EM042	10V INSERTION UNIT	R & S	URV5-Z2	842558/023	2020-12-28	2022-12-28							
EM203	POWER AMPLIFIER	BONN	BLMA0820-50	025257	N/A	N/A							
EM256	SIGNAL GENERATOR	R&S	SMB100A	100844	2020-12-24	2022-12-24							
EM257	POWER AMPLIFIER	MILMEGA	AS0204-60	1029240	N/A	N/A							
EM316	POWER AMPLIFIER	EMPOWER RF SYSTEM	BBS2E4AUT	1004	N/A	N/A							

Remark: N/A Not Applicable

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Appendix B

Photographs of EUT



Being Test of the Product





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Photographs of EUT

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Under Extreme Test



Extreme Test Setup





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Photographs of EUT

Front View



Rear View





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Appendix C

RF Exposure Evaluation

SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	<u></u>
100	237	474	481	487	49 4	501	507	514	521	527	534	541	547	554	561	567	
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	тW
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

Result of On mode connected to PC: Pass [FCC 47CFR 15.225a]

Frequency Range(MHz)	Highest Field strength measured @3m (dBuV/m)	Highest Field strength calculated @30m (dBuV/m)	Limit@30m (dBuV/m)
13.553 - 13.567	51.62@13.56MHz	11.62@13.56MHz	84.0

 $51.62 dBuV\!/m$ @3m to be -43.61EIRP (dBm) or 0.00004356EIRP (mW)



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Remark : $dmin_1 = 50mm$, f = 0.1GHz

f = 100MHz

Remark : $\dim 2 = 5 \text{mm}$

According to FCC KDB 447498 D01 General RF Exposure Guidance V06 Chapter 4.31

- a. For 100MHz to 6GHz and test separation distances less or equal to 50mm, the 1g and 10g SAR test exclusion thresholds are determined by :
 [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] x [√f (GHz)], Results : ≤ 3.0 for 1g SAR and ≤for 10g extremity SAR.
- b. For 100MHz to 6GHz and test separation distances more than 50mm, the 1g and 10g SAR test exclusion thresholds are determined by:
 {[Power allowed at numeric threshold for 50mm in step a.] + [test separation distance-50mm] x (f (MHz) / 150)]} mW, for 100MHz to 1.5GHz.
- c. For frequencies below 100MHz, the following may be considered for SAR test exclusion:
 - 1. For test separation distances more than 50mm and less than 200mm, the power threshold at the corresponding test separation distance at 100MHz in step b. is multiplied by [1 + log (100 / f (MHz)]
 - 2. For test separation distances less than or equal to 50mm, the power threshold determined by the equation in c.1. for 50mm and 100MHz is multiplied by 1/2.

```
Calculation:
```

a. [$Pmax / dmin_1$] x [\sqrt{f}] =3

 $Pmax = [dmin_1 x 3] / \sqrt{f}$

 $=[50 \times 3] / \sqrt{0.1}$

= 474.3mW

b. Pmax + [dmin_2 -50mm] x [f/150]

474.3+ [(5-50)] x [100 / 150] =444.3 mW

- c. 1. [the power threshold at the corresponding test separation distance at 100MHz in step b.] x [1 + log (100/ f2)]
 =444.3 x [1 + log (100 / 13.56)]
 Remark : 13.56MHz
 = 829.9mW
 - 2. [the power threshold determined by equation in c. 1.] x 1/2
 = 829.9 x 1/2
 = 414.9mW

SAR test exclusion threshold is 414.9mW

The power of EUT is -43.61 dBm = 0.00004356 mW

The SAR Exclusion Threshold conditions are satisfied and the SAR evaluation for general population exposure conditions are not require.

***** End of Test Report *****

Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3, the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
- 4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
- 7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
- 12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.