

TEST REPORT

Report number : Z071C-13311 Issue date : August 22, 2013

The device, as described herewith, was tested pursuant to applicable test procedure and complies with the requirements of;

FCC Part15 Subpart C

The test results are traceable to the international or national standards.

Applicant : KYOCERA Corporation

Equipment under test (EUT) : Mobile Phone

Model number : KYY06

FCC ID : JOYKYY06

Date of test : August 22, 2013

Test place : TÜV SÜD Zacta Ltd. Yonezawa Testing Center

4149-7 Hachimanpara 5-chome

Yonezawa-shi Yamagata 992-1128 Japan

Phone: +81-238-28-2880 Fax: +81-238-28-2888

Test results : Complied

The results in this report are applicable only to the equipment tested.

This report shall not be re-produced except in full without the written approval of TÜV SÜD Zacta Ltd. This test report must not be used by client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Tested by : Miake Kamo

Chiaki Kanno

Authorized by : // Sugur

Hiroaki Suzuki

Manager of technical Department

NVLAP LAB CODE 200306-0



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1. Summary of Test

1.1 Purpose of test

It is the original test in order to verify conformance to FCC Part 15 Subpart C.

1.2 Standards

CFR47 FCC Part 15 Subpart C

1.2.1 Test Methods

ANSI C63.4-2003

1.2.2 Deviation from standards

None

1.3 List of applied test to the EUT

Test items Section	Classification of EUT	Condition	Result
RSS-Gen 4.6.1	Occupied Bandwidth	Conducted	PASS
15.209 15.225 (a)(b)(c)(d)	Operation within the band 13.110-14.010MHz	Radiated	PASS
15.209 15.225 (d)	Transmitter Radiated Spurious Emissions	Radiated	PASS
15.225 (e)	Frequency Tolerance	Conducted	PASS
15.207	AC Power Line Conducted Emissions	Conducted	PASS

1.3.1 Test set up

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1.4 Modification to the EUT by laboratory

None



2. Equipment Under Test

2.1 General Description of equipment

EUT is the Mobile Phone.

2.2 EUT information

Applicant : KYOCERA Corporation

Yokohama Office2-1-1 Kagahara, Tsuzuki-ku, Yokohama-shi, Kanagawa,

Japan

Phone: +81-45-943-6253 Fax: +81-45-943-6314

Equipment under test : Mobile Phone

Trade name : Kyocera

Model number : KYY06

Serial number : N/A

EUT condition : Pre-production

Max. frequency : 696MHz

Power ratings : Battery: DC 3.7V

Size : $(W) 46 \times (D) 19.5 \times (H) 111 \text{ mm}$

Environment : Indoor and Outdoor USE

Terminal limitation : -20°C to 60°C

RF Specification

Frequency range : 13.56MHz

Modulation method : ASK

Antenna type : Loop antenna

2.3 Variation of the family model(s)

Not applicable



2.4 Description of Test mode

The field strength of spurious emissions was measured at each position of all three axis X, Y and Z to compare the level, and the maximum noise.

The worst emission was found in X axis and the worst case recorded.

2.5 Operating mode

[Transmit mode]

- i) NFC test program setup to the DM tool
- ii) Start test mode



3. Configuration of equipment

3.1 Equipment(s) used

No.	Equipment	Company	Model No.	Serial No.	FCC ID / DoC	Comment
1	Mobile Phone	KYOCERA	KYY06	N/A	JOYKYY06	EUT
2	AC Adapter	KDDI	0301PQA	HS-TFA	-	*

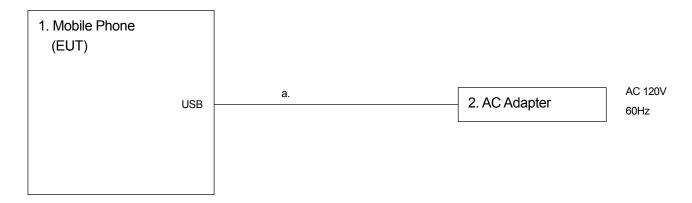
^{*:} AC power line Conducted Emission Test.

3.2 Cable(s) used

No.	Cable	Length[m]	Shield	Connector	Comment
а	Coaxial cable	1.0	Yes	Metal	*

^{*:} AC power line Conducted Emission Test.

3.3 System configuration



Note: Numbers assigned to equipment or cables on this diagram correspond to the list in "3.1 Equipment(s) used" and "3.2 Cable(s) used".



4. Occupied Bandwidth

4.1 Measurement procedure [IC RSS-Gen 4.6.1]

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99% bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

The spectrum analyzer is set to;

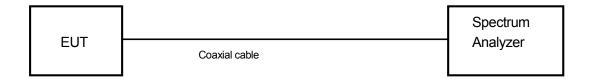
- RBW=1kHz, VBW=3kHz, Span=100kHz, Sweep=auto, Detector=Sample

The EUT was set to operate with following conditions.

- 13.56MHz

The test mode of EUT is as follows.

- Transmit mode
- Test configuration



4.2 Limit

None

4.3 Measurement result

Date : Aug. 22, 2013 Test personnel

Temperature : 24.9 [°C]

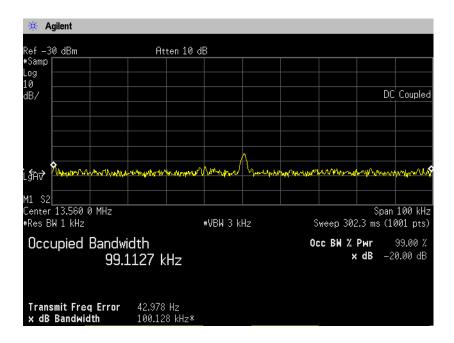
Humidity : 53.1 [%] Tested by :

Test place : Shielded room Chiaki Kanno

Frequency [MHz]	Occupied bandwidth [kHz]
13.56	99.1127



4.4 Trace data





5. Operation within the band 13.110-14.010MHz

5.1 Measurement procedure [FCC 15.209, 15.225 (a)(b)(c)(d)]

Test was applied by following conditions.

Test method : ANSI C63.4

Frequency range : 13.110MHz to 14.010MHz
Test place : 3m Semi-anechoic chamber

EUT was placed on : FRP table / (W)2.0m × (D)1.0m × (H)0.8m

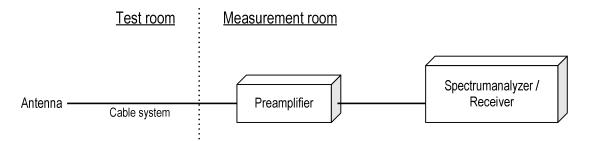
Antenna distance : 3m

Test receiver setting

Detector : Quasi-peakBandwidth : 9kHz

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements frequency range 13.110MHz to 14.010MHz were performed with test receiver in above setting. The turntable and the Loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



5.2 Calculation method

Emission level = Reading + (Ant. factor + Cable system loss – Amp. Gain) Margin = Limit – Emission level



5.3 Limit

- (a) The field strength of any emissions within the band 13.553-13.567MHz shall not exceed 15,848uV/m at 30m.
- (b) Within the band 13.410-13.553MHz and 13.567-13.710MHz, the field strength of any emissions shall not exceed 334uV/m at 30m.
- (c) Within the band 13.110-13.410MHz and 13.710-14.010MHz, the field strength of any emissions shall not exceed 106uV/m at 30m.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010MHz and shall not exceed the general radiated emission limits in FCC 15.209.

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level [dBuV/m] = 20log Emission [uV/m]
- 3. Measurements were corrected to 30m using 40log (3/30) = -40.0dB

5.4 Test data

Date : Aug. 22, 2013 Test personnel :

Temperature : 23.6 [°C]

Humidity : 54.9 [%] Tested by :

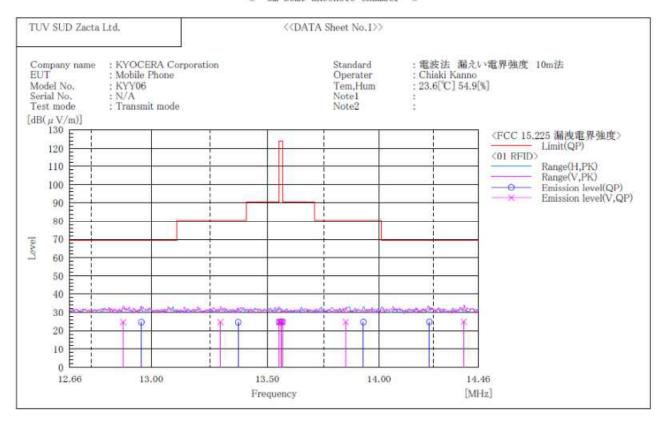
Test place : 3m Semi-anechoic chamber Chiaki Kanno

	F	Le	Limit	Manain		
Frequency range (MHz)	Frequency (MHz)	Measurered at 3m (dBuV/m)	Measurered at 30m (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
13.553-13.567	13.560	24.8	-15.2	84.0	99.2	PASS
13.41-13.553	13.553	24.8	-15.2	50.5	65.7	PASS
13.567-13.71	13.567	24.8	-15.2	50.5	65.7	PASS
13.11-13.41	13.296	24.7	-15.3	40.5	55.8	PASS
13.71-14.01	13.929	24.7	-15.3	40.5	55.8	PASS
12.66-13.11	12.958	24.6	-15.4	29.5	44.9	PASS
14.01-14.46	14.391	24.9	-15.1	29.5	44.6	PASS



5.5 Trace data

****** RADIATED EMISSION ****** « 3m Semi-anechoic chamber »



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[0]
1	13.560	V	34.5	-9.8	24.7	124.0	99.3	100.0	0.0
2	13.553	V	34.6	-9.8	24.8	90.5	65.7	100.0	0.0
3	13, 567	V	34.5	-9.8	24. 7	90.5	65.8	100.0	0.0
4	13. 296	V	34.5	-9.8	24.7	80.5	55.8	100.0	0.0
5	13.849	V	34.5	-9.8	24.7	80.5	55.8	100.0	0.0
6	12.882	V	34.5	-9.9	24.6	69.5	44.9	100.0	0.0
7	14.391	V	34.6	-9.7	24.9	69. 5	44.6	100.0	0.0
7 8 9 10	13.560	H	34.6	-9.8	24.8	124.0	99. 2	100.0	0.0
9	13.553	H	34.5	-9.8	24. 7	90.5	65.8	100.0	0.0
10	13. 567	H	34.6	-9.8	24.8	90. 5	65. 7	100.0	0.0
11	13. 373	H	34.4	-9.8	24. 6	80.5	55.9	100.0	0.0
12	13, 929	H	34.5	-9.8	24. 7	80. 5	55. 8	100.0	0.0
13	12, 958	H	34.5	-9.9	24.6	69.5	44.9	100.0	0.0
14	14. 231	H	34.5	-9.7	24.8	69.5	44.7	100.0	0.0



6. Radiated Emissions

6.1 Measurement procedure [FCC 15.209, 15.225 (d)]

Test was applied by following conditions.

Test method : ANSI C63.4 Frequency range : 9kHz to 30MHz

Test place : 3m Semi-anechoic chamber

EUT was placed on : FRP table / (W)2.0m × (D)1.0m × (H)0.8m

Antenna distance : 3m

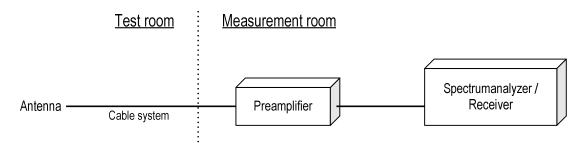
Test receiver setting

- Detector : Average (9kHz-90kHz, 110kHz-490kHz), Quasi-peak

- Bandwidth : 200Hz, 9kHz

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements up to 30MHz were performed with test receiver in above setting. The turntable and the Loop antenna are rotated by 360 degrees and stopped at azimuth of producing the maximum emission. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration





Test was applied by following conditions.

Test method : ANSI C63.4

Frequency range : 30MHz to 1000MHz

Test place : 3m Semi-anechoic chamber

EUT was placed on : FRP table / (W)2.0m \times (D)1.0m \times (H)0.8m

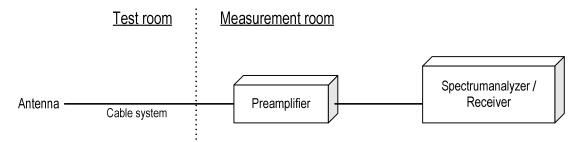
Antenna distance : 3m

Test receiver setting

- Detector : Quasi-peak- Bandwidth : 120kHz

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Then, emission measurements up to 1000MHz were performed with test receiver in above setting. In order to find the maximum emissions, antenna is adjusted between 1m and 4m in height and varied its polarization (horizontal and vertical), and EUT azimuth was also varied by rotating turntable 0 to 360 degrees. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition.

- Test configuration



6.2 Calculation method

[9kHz to 150kHz]
Emission level = Reading + (Ant. factor + Cable system loss)
Margin = Limit – Emission level

[150kHz to 1000MHz]
Emission level = Reading + (Ant. factor + Cable system loss – Amp. Gain)
Margin = Limit – Emission level



6.3 Limit

Frequency	Field s	Distance	
[MHz]	[uV/m]	[dBuV/m]	[m]
0.009-0.490	2400 / F [kHz]	20logE [uV/m]	300
0.490-1.705	24000 / F [kHz]	20logE [uV/m]	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	300	54.0	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level [dBuV/m] = 20log Emission [uV/m]
- 3. Measurements were corrected to 30m using 40log (3/30) = -40.0dB
- 4. CISPR 22 limit was applied radiated emission measurements as prescribed in FCC Part 15 section 15.109(g).



6.4 Test data

Aug. 22, 2013 Test personnel Date

23.6 [°C] Temperature

54.9 [%] Humidity

Tested by Test place Chiaki Kanno 3m Semi-anechoic chamber

[9kHz to 30MHz]

Frequency [MHz]	Reading [dBuV] At 3m	c.f [dB(1/m)]	Result [dBuV/m] At 3m	Result [dBuV/m] At 30m	Limit [dBuV/m] At 30m	Margin [dB]	Result
27.12	31.7	-8.2	23.5	-16.5	29.5	46.0	PASS

[30MHz to 1000MHz]

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle
			QP		QP	QP	QP		
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]
1	287.995	H	28.7	-2.7	26.0	46.0	20.0	114.0	86.0

Note: Expect for above emissions, no emissions were observed during Radiated testing.



7. Frequency Tolerance

7.1 Measurement procedure [FCC 15.205 (e)]

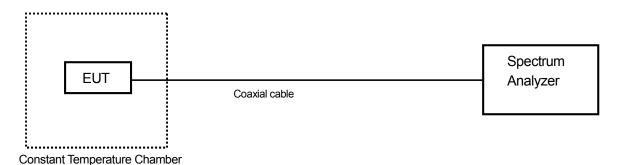
The EUT was placed of an inside of an constant temperature chamber as the temperature in the chamber was varied between -30°C and +60°C. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channels center frequency was recorded.

The EUT was set to operate with following conditions.

- 13.56MHz

The test mode of EUT is as follows.

- Transmit mode
- Test configuration



7.2 Limit

The Frequency tolerance of the carrier signal shall be maintained within +/- 0.01% over a temperature variation of -30 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.



7.3 Test data

Aug. 22, 2013 Test personnel Date

Temperature 24.9 [°C] 53.1 [%] Humidity

Tested by Test place Shielded room Chiaki Kanno

	Reference Frequency: EUT Channel 13.56MHz at 20°C									
	Limit: ±0.01% = ±100ppm = 0.135603MHz									
Power Supply	Temperature	Measurements Frequency	Frequency Tolerance	Limit	Result					
[V]	[°C]	[MHz]	[ppm]	[ppm]						
	50	13.5602	7.374576884	±100	PASS					
	40	13.5603	14.74915377	±100	PASS					
	30	13.5603	14.74915377	±100	PASS					
	20	13.5601	-	±100	PASS					
3.7	10	13.5603	14.74915377	±100	PASS					
	0	13.5602	7.374576884	±100	PASS					
	-10	13.5603	14.74915377	±100	PASS					
	-20	13.5603	14.74915377	±100	PASS					
	-30	13.5605	29.49830753	±100	PASS					
3.145	20	13.5602	7.374576884	±100	PASS					
4.255	20	13.5603	14.74915377	±100	PASS					



8. AC Power Line Conducted Emissions

8.1 Measurement procedure [FCC 15.207]

Test was applied by following conditions.

Test method : ANSI C63.4

Frequency range : 0.15MHz to 30MHz

Test place : 10m Semi-anechoic chamber

EUT was placed on : FRP table / (W)2.0m × (D)1.0m × (H)0.8m Vertical Metal Reference Plane : (W)2.0m × (H)2.0m 0.4m away from EUT

Test receiver setting

- Detector : Quasi-peak, Average

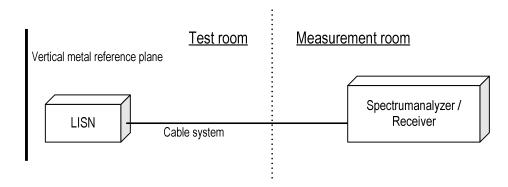
- Bandwidth : 9kHz

EUT and peripherals are connected to $50\Omega/50\mu H$ Line Impedance Stabilization Network (LISN) which are connected to reference ground plane, and are placed 80cm away from EUT. Excess of AC power cable is bundled in center.

LISN for peripheral is terminated in 50Ω .

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, peripherals, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits.

- Test configuration



8.2 Calculation method

Emission level = Reading + (LISN. factor + Cable system loss)
Margin = Limit – Emission level

8.3 Limit

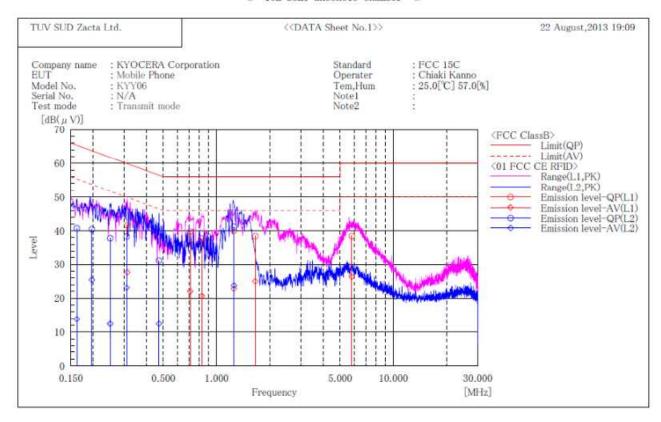
Frequency	Limit				
[MHz]	QP [dBuV]	AV [dBuV]			
0.15-0.5	66-56*	56-46*			
0.5-5	56	46			
5-30	60	50			

^{*:} The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.



8.4 Test data

***** CONDUCTED EMISSION at MAINS PORT ***** \ll 10m semi-anechoic chamber \gg



Final Result

	L1 Phase -									
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(µV)]	[dB(µV)]	[dB]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB]	[dB]
1	0.312	31.4	17.5	10.2	41.6	27.7	59.9	49.9	18.3	22. 2
2	0, 708	29.5	11.8	10.2	39.7	22.0	56.0	46.0	16.3	24.0
3	0.824	27.5	10.4	10.2	37.7	20.6	56. 0	46.0	18.3	25.4
4	1, 252	29.7	12.5	10.3	40.0	22.8	56.0	46.0	16.0	23. 2
1 2 3 4 5	1, 655	28. 1	14.8	10.3	38.4	25. 1	56.0	46.0	17.6	20.9
6	5, 813	27.8	15.8	10.6	38. 4	26.4	60.0	50.0	21.6	23.6
	L2 Phase -	25								
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	$[dB(\mu V)]$	$[dB(\mu V)]$	[dB]	$[dB(\mu V)]$	$[dB(\mu V)]$		$[dB(\mu V)]$	[dB]	[dB]
1	0.162	30.4	3.5	10.3	40.7	13.8	65. 4	55. 4	24.7	41.6
2	0.197	30. 1	15.2	10.3	40.4	25. 5	63.7	53. 7	23.3	28. 2
3	0.250	27.6	2.2	10.2	37.8	12.4	61.8	51.8	24.0	39.4
1 2 3 4 5	0.310	28. 1	12.9	10.2	38.3	23. 1	60.0	50.0	21.7	26.9
5	0.472	20.9	2.2	10.2	31. 1	12.4	56. 5	46. 5	25.4	34.1
6	1, 253	30.8	13.5	10.3	41.1	23.8	56. 0	46.0	14.9	22. 2



9. Uncertainty of measurement

Expanded uncertainties stated are calculated with a coverage Factor k=2.

Please note that these results are not taken into account when determining compliance or non-compliance with test result.

Test item	Measurement uncertainty
Conducted emission at mains port	±3.0dB
Radiated emission (9kHz – 30MHz)	±4.4dB
Radiated emission (30MHz – 1000MHz)	±4.5dB
Radiated emission (1000MHz – 26GHz)	±3.9dB



10. Laboratory description

1. Location:

TÜV SÜD Zacta Ltd. Yonezawa Testing Center 4149-7 Hachimanpara 5-chome Yonezawa-shi Yamagata 992-1128 Japan

Phone: +81-238-28-2880 Fax: +81-238-28-2888

2. Facility filing information:

1) NVLAP accreditation: NVLAP Lab. code: 200306-0

2) VLAC accreditation: Lab. code: VLAC-013

Site name	Radiated emission	Conducted emission for mains port	Conducted emission for telecom port	Radiated emission (CMAD)	Expiry Date
3m Semi-anechoic chamber	VLAC-013			VLAC-013	Jul. 3, 2015
10m Semi-anechoic chamber	VLAC-013		VLAC-013		
Shielded room No.1	- VLAC-013		-		

3) FCC filing:

Site name	Registration Number	Expiry Date
Site 2	91065	Oct.31, 2014
Site 3	91005	OG.31, 2014
3m Semi-anechoic chamber		
10m Semi-anechoic chamber	540072	Jan. 9, 2016
Shielded room No.1		

4) Industry Canada Oats site filing:

1) iridabily Cariada Cale oil		
Site name	Sites on file: Oats 3m/10m	Expiry Date
Site 2	4224A-2	
Site 3	4224A-3	Jan. 23, 2015
3m Semi-anechoic chamber	4224A-4	Jan. 25, 2015
10m Semi-anechoic chamber	4224A-5	

5) VCCI site filing:

Site name	Radiated emission	Conducted emission for mains port	Conducted emission for telecom port	Expiry Date	
Site 2	R-137	C-133	T-1221	Nov. 16, 2014 Nov. 28, 2014*	
Site 3	R-138	C-134	T-1222	(*:Telecom port)	
3m Semi-anechoic chamber 10m Semi-anechoic chamber	A-0166		Jul. 3, 2015		
Shielded room No.1	-	A-0	A-0166		

6) TÜV SÜD PS authorization:

Authorized as an EMC test laboratory

7) TÜV Rheinland authorization:

Authorized as an EMC test laboratory



Appendix A. Test equipment

Antenna port conducted test

Equipment	Company	Model No.	Serial No.	Cal. due	Cal. date
Spectrum analyzer	Agilent Technologies	E4440A	US40420937	Oct. 2013	Oct. 19, 2012
Microwave cable	SUHNER	SUCOFLEX104/1.5m	199121/4	Oct. 2013	Oct. 7, 2012
Operation type temperature controlled bath	Espec	PL3KP	14016727	Dec. 2013	Dec. 27, 2012

Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ECSI	100451	Oct. 2013	Oct. 26, 2012
Preamplifier	ANRITSU	MH648A	M96057	Jun. 2014	Jun. 12, 2013
Loop antenna	ROHDE&SCHWARZ	HFH2-Z2	892246/010	Sep. 2013	Sep. 14, 2012
Biconical antenna	Schwarzbeck	VHA9103/BBA9106	2155	May 2014	May 1, 2013
Log periodic antenna	Schwarzbeck	UHALP9108A	0560	May 2014	May 1, 2013
Attenuator	TME	CFA-01NPJ-6	N/A (S275)	Jun. 2014	Jun. 12, 2013
Attenuator	TME	CFA-01NPJ-3	N/A (S272)	Jun. 2014	Jun. 12, 2013
Spectrum analyzer	Agilent Technologies	E4447A	MY46180188	Mar. 2014	Mar. 8, 2013
Preamplifier	Agilent Technologies	8449B	3008A1008	Dec. 2013	Dec. 9, 2012
		SUCOFLEX104/9m	346316/4	Oct. 2013	Oct. 6, 2012
Microwave cable	SUHNER	SUCOFLEX104/1m	322084/4	Oct. 2013	Oct. 6, 2012
WIICIOWave Cable	SOLINER	SUCOFLEX104/1.5m	317226/4	Oct. 2013	Oct. 6, 2012
		SUCOFLEX104/7m	41625/6	Oct. 2013	Oct. 6, 2012
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V5.3.61	N/A	N/A
3m Semi-anechoic chamber	TOKIN	N/A	N/A (9002-NSA)	May 2014	May 6, 2013

Conducted emission at mains port

Conducted emission at mains port							
Equipment	Company	Model No.	Serial No.	Cal. due	Cal. date		
EMI Receiver	ROHDE&SCHWARZ	ECSI	100765	Jul. 2014	Jul. 24, 2013		
Attenuator	TYC	BA-PJ-10	N/A (S344)	Apr. 2014	Apr. 26, 2013		
Line impedance stabilization network for EUT	Kyoritsu Electrical Works, Ltd.	KNW-407F	8-2003-1	Mar. 2014	Mar. 12, 2013		
Coaxial cable	FUJIKURA	5D-2W/4m	N/A (S349)	Feb. 2014	Feb. 4, 2013		
Microwave cable	SUHNER	SUCOFLEX104/1.5m	317222/4	Sep. 2013	Sep. 14, 2012		
Coaxial cable	SUHNER	RG214/U/25m	N/A (S191)	Feb. 2014	Feb. 4, 2013		
PC	HP	dc7800small	JPA7450FPJ	N/A	N/A		
Software	TOYO Corporation	EP5/CE-AJ	0611193/V5.2.41	N/A	N/A		