

Page

: 1 of 20

Issued date

: June 2, 2014

FCC ID

: 2AADJFFS-U

EMI TEST REPORT

Test Report No.: 10354314S

Applicant

Sony Engineering Corporation

Type of Equipment:

RF Glow-Stick receiver

Model No.

FFS-R9

FCC ID

2AADJFFS-U

Test regulation

FCC Part15 Subpart B: 2014

Test result

Complied

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.

:

- 2. The results in this report apply only to the sample tested.
- 3. This sample tested is in compliance with the limits of the above regulation.
- 4. The test results in this test report are traceable to the national or international standards.
- 5. This test report must not be used by the customer to claim product certification, approval, or endorsement by any agency of the Federal Government.
- 6. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.

Date of test:	May 26, 2014
Representative test engineer:	T. Lato
	Tomochika Sato
	Engineer
	Consumer Technology Division
Approved by:	T. Amaman
	Toyokazu Imamura
	Leader

Consumer Technology Division





	The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japa	an
\vee	There is no testing item of "Non-accreditation"	

UL Japan, Inc.

Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

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13-EM-F0429

Test report No. : 10354314S
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REVISION HISTORY

Original Test Report No.: 10354314S

- (Original) 10354314S	Revision	Test report No.	Date	Page revised	Contents
	- (Original)	10354314S	June 2, 2014		-

Test report No. : 103543148

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Issued date : June 2, 2014

FCC ID : 2AADJFFS-U

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Test report No.: 10354314S
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Issued date: June 2, 2014
FCC ID: 2AADJFFS-U

SECTION 1: Customer information

Company Name : Sony Engineering Corporation

Address : 3-3-1 Tsujido-Shinmachi, Fujisawa-shi, Kanagawa, 251-0042 Japan

Telephone Number : +81-466-38-3428 Facsimile Number : +81-466-38-3771 Contact Person : Masayuki Okada

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : RF Glow-Stick receiver

Model Number : FFS-R9

Serial Number : No.1 (Receiving 922.4MHz)

No.2 (Receiving 924.4MHz) No.3 (Receiving 926.4MHz)

Rating : DC3V Country of Mass-production : Vietnam

Condition of EUT : Production model Receipt Date of Sample : May 23, 2014

Modification of EUT : No modification by the test lab.

2.2 Product description

Model: FFS-R9 (referred to as the EUT in this report) is an RF Glow-Stick receiver.

Clock frequency(ies) in the system : 30MHz (RFIC), 16MHz (MCU)

<Radio part>

Equipment type : Receiver

Frequency of operation : 922.4-926.4MHz Antenna type : Chip (internal)

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SECTION 3: Test specification, procedures & results

3.1 Test specification

Test specification : FCC Part 15 Subpart B: 2014,

final revised on May 1, 2014 and effective June 2, 2014

Title : FCC 47CFR Part 15 Radio Frequency Device

Subpart B Unintentional Radiators

3.2 Procedures & Results

Item	Test Procedure	Limits	Deviation	Worst margin	Result
Conducted	ANSI C63.4: 2009	FCC 15.107	N/A	N/A	N/A
emission	7. AC powerline	(a)	*1)		
	conducted emission				
	measurements				
Radiated	ANSI C63.4: 2009	FCC 15.109	N/A	22.5dB	Complied
emission	8. Radiated emission	(a)		Freq.: 4891.379MHz	
	measurements			Polarization: Horizontal	
				Detection: Average	
				Mode: Receiving 926.4MHz	
Antenna power	ANSI C63.4: 2009	FCC 15.111	N/A	N/A	N/A
conduction for	12.2.5 Antenna-	(a)	*2)		
receivers	conducted power				
	measurements				

^{*1)} The test is not applicable since the EUT does not have AC Mains ports.

Note: UL Japan's EMI Work Procedures No.13-EM-W0420

3.3 Additions to standards

No addition, deviation or exclusion has been made from standards.

3.4 Confirmation

UL Japan, Inc. hereby confirms the E.U.T., in the configuration tested, complies with the specifications FCC Part 15 Subpart B: 2014.

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^{*} The revision on May 1, 2014 does not affect the test specification applied to the EUT.

^{*2)} The test is not applicable since the EUT does not have antenna ports.

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3.5 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

Item	Frequency range	No.1 SAC*1/SR*2 (±)	No.2 SAC/SR (±)	No.3 SAC/SR (±)
Radiated emission	30MHz-300MHz	4.8 dB	5.0 dB	4.8 dB
(Measurement distance: 3m)	300MHz-1GHz	5.0 dB	5.0 dB	4.8 dB
	1GHz-18GHz	4.9 dB	4.9 dB	4.9 dB

^{*1:} SAC=Semi-Anechoic Chamber

Radiated emission

The data listed in this test report has enough margin, more than site margin.

3.6 Test location

UL Japan, Inc. Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone number : +81 463 50 6400 Facsimile number : +81 463 50 6401 JAB Accreditation No. : RTL02610

	IC Registration No.	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
☐ No.1 semi-anechoic chamber	2973D-1	20.6 x 11.3 x 7.65	20.6 x 11.3	10m
☐ No.2 semi-anechoic chamber	2973D-2	20.6 x 11.3 x 7.65	20.6 x 11.3	10m
☑ No.3 semi-anechoic chamber	2973D-3	12.7 x 7.7 x 5.35	12.7 x 7.7	5m
☐ No.4 semi-anechoic chamber	-	8.1 x 5.1 x 3.55	8.1 x 5.1	-
☐ No.1 shielded room	=	6.8 x 4.1 x 2.7	6.8 x 4.1	-
☐ No.2 shielded room	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
☐ No.3 shielded room	-	6.3 x 4.7 x 2.7	6.3 x 4.7	-
☐ No.4 shielded room	-	4.4 x 4.7 x 2.7	4.4 x 4.7	-
☐ No.5 shielded room	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
☐ No.6 shielded room	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-

3.7 Test Setup, Data of EMI & Test instruments

Refer to Appendix 1 to 3.

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^{*2:} SR= Shielded Room is applied besides radiated emission

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SECTION 4: Operation of E.U.T. during testing

4.1 Operating mode

The EUT exercise program used during testing was designed to exercise the various system components in a manner similar to typical use.

Test sequence is used : 1) Receiving 922.4MHz

2) Receiving 924.4MHz

3) Receiving 926.4MHz

Software : N/A

Justification: The system was configured in typical fashion (as a customer would normally use it) for testing.

4.2 Configuration and peripherals

This clause has been submitted for separate exhibit. Refer to APPENDIX 4.

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SECTION 5: Radiated emission

5.1 Operating environment

The test was carried out in No.3 semi-anechoic chamber.

Temperature : See test data Humidity : See test data

5.2 Test configuration

EUT was placed on a polyethylene platform of nominal size, 0.5m by 0.5m, raised 0.8m above the conducting ground plane. Photographs of the set up are shown in Appendix 1.

5.3 Test conditions

Frequency range : 30MHz - 5GHz

Test distance : 3m EUT position : Table top

5.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on an anechoic chamber with a ground plane and at a distance of 3m. Measurements were performed with quasi-peak, peak and average detector. The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization. The radiated emission measurements were made with the following detector function of the test receiver.

<u>Frequency</u>: 30-1000MHz 1-5GHz

Detector Type: Quasi-Peak Peak * Average

IF Bandwidth : 120kHz RBW:1MHz/VBW:3MHz RBW:1MHz/VBW:10Hz

The noise levels were confirmed at each position of X and Y axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Worst position: Refer to the data.

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^{*} When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

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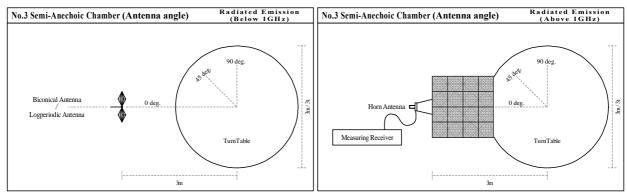


Figure 1. Antenna angle

5.5 Results

Summary of the test results : Pass

Refer to APPENDIX 2

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Radiated emission

APPENDIX 2: Test instruments

Test instruments

APPENDIX 3: Photographs of test setup

Radiated emission

APPENDIX 4: Configuration and peripherals

Configuration and peripherals

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber

Test Report No: 10354314S

Date: 2014/05/26

: Sony Engineering Corporation : RF glow-stick receiver : FFS-R9 Company Kind of EUT

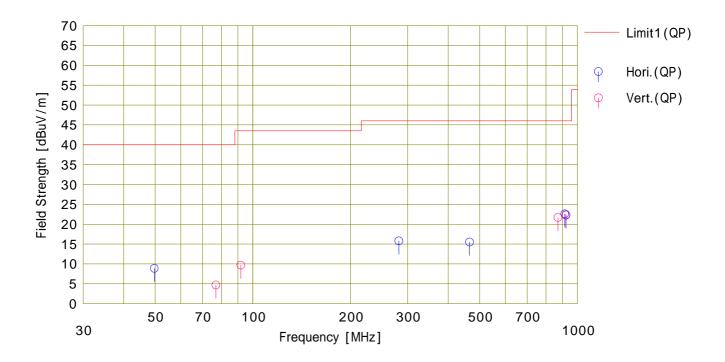
Model No. Serial No. No.1 : EUT:Y Remarks

: Receiving 922.4MHz : 10354314S : DC 3V

Order No. Power

: 10354314S : DC 3V : 21deg.C. / 42%RH Temp./Humi.

Limit1: FCC 15B Class B (3m)



	_	Reading	l	. 1			Result	Limit	Margin					
No.	Freq.	<qp></qp>	Ant.Fac	Loss	Gain	S.Fac	<qp></qp>	<qp></qp>	<qp></qp>	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	1,700	
1	49.724	23.4	10.9	6.8	32.2	0.0	8.9	40.0	31.1	Hori.	150	1	BC	
2	281.651	21.3	18.2	8.3	32.0	0.0	15.8	46.0	30.2	Hori.	300	332	BC	
3	465.185	21.5	16.9	9.1	32.0	0.0	15.5	46.0	30.5	Hori.	100	208	LP	
4	914.553	21.1	21.7	10.7	30.9	0.0	22.6	46.0	23.4	Hori.	150	215	LP	
5	922.400	20.7	21.8	10.7	30.9	0.0	22.3	46.0	23.7	Hori.	100	0	LP	
6	76.987	23.3	6.3	7.0	32.2	0.3	4.7	40.0	35.3	Vert.	100	1	BC	
7	91.819	25.9	8.5	7.1	32.1	0.3	9.7	43.5	33.8	Vert.	100	139	BC	
8	871.054	21.0	21.3	10.6	31.2	0.0	21.7	46.0	24.3	Vert.	100	249	LP	
9	922.400	20.8	21.8	10.7	30.9	0.0	22.4	46.0	23.6	Vert.	100	0	LP	

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber

Date: 2014/05/26

: Sony Engineering Corporation : RF glow-stick receiver : FFS-R9 Company Kind of EUT

RF glow-stick receiver FFS-R9 No.2

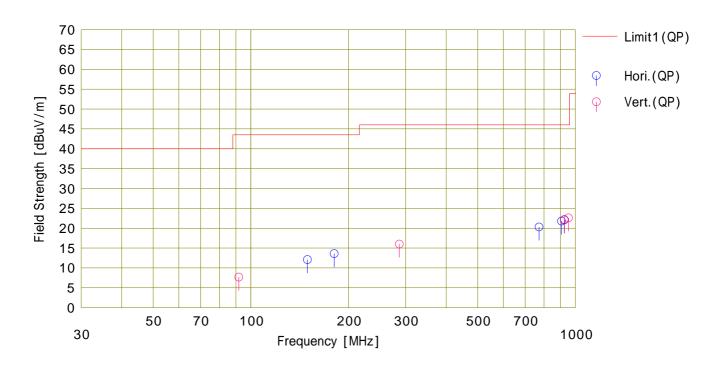
Model No. Serial No. : EUT:Y Remarks

: Receiving 924.4MHz : 10354314S : DC 3V

Order No. Power

: 10354314S : DC 3V : 21deg.C. / 42%RH Temp./Humi.

Limit1: FCC 15B Class B (3m)



		Reading	1				Result	Limit	Margin					
No.	Freq.	<qp></qp>	Ant.Fac	Loss	Gain	S.Fac	<qp></qp>	<qp></qp>	<qp></qp>	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	туре	
1	149.381	21.9	14.6	7.6	32.1	0.1	12.1	43.5	31.4	Hori.	300	30	BC	
2	180.671	22.0	16.0	7.8	32.1	-0.1	13.6	43.5	29.9	Hori.	150	4	BC	
3	772.510	21.4	20.3	10.3	31.7	0.0	20.3	46.0	25.7	Hori.	150	72	LP	
4	906.159	20.4	21.7	10.7	31.0	0.0	21.8	46.0	24.2	Hori.	100	193	LP	
5	924.400	20.4	21.8	10.7	30.8	0.0	22.1	46.0	23.9	Hori.	100	0	LP	
6	91.826	23.9	8.5	7.1	32.1	0.3	7.7	43.5	35.8	Vert.	100	277		
7	286.780	21.3	18.4	8.3	32.0	0.0	16.0	46.0	30.0	Vert.	100	142		
8	924.400				30.8	0.0	22.2	46.0			100	0	LP	
9	952.479	20.3	22.1	10.8	30.6	0.0	22.6	46.0	23.4	Vert.	100	335	LP	

DATA OF RADIATED EMISSION TEST

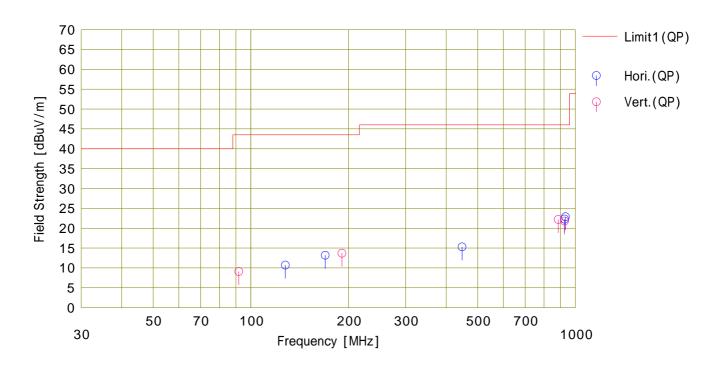
UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber

Date: 2014/05/26

Company Kind of EUT Order No.

: Sony Engineering Corporation : RF glow-stick receiver : FFS-R9 : Receiving 926.4MHz : 10354314S : DC 3V : 10354314S : DC 3V : 21deg.C. / 42%RH Model No. Power No.3 Temp./Humi. Serial No. : EUT:Y Remarks

Limit1: FCC 15B Class B (3m)



	F===	Reading	Ant Foo	Lana	Caia	C Fa.a	Result	Limit	Margin	Dala	l la i alb t	۸ م م ام		
No.	Freq.	<qp></qp>	Ant.Fac	Loss		S.Fac	<qp></qp>	<qp></qp>	<qp></qp>	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dB/m]		[dB]	[dB]	[dBuV/m]		[dB]	[H/V]	[cm]	[deg]		
1	127.725	21.9	13.6	7.4	32.1	-0.1	10.7	43.5	32.8	Hori.	300	239	BC	
2	169.522	22.1	15.4	7.7	32.1	0.1	13.2	43.5	30.3	Hori.	150	358	BC	
3	447.582	21.5	16.8	9.0	32.0	0.0	15.3	46.0	30.7	Hori.	100	352	LP	
4	926.400	20.6	21.8	10.7	30.8	0.0	22.3	46.0	23.7	Hori.	100	0	LP	
5	932.378	21.1	21.9	10.7	30.8	0.0	22.9	46.0	23.1	Hori.	100	357	LP	
6	91.807	25.3	8.5	7.1	32.1	0.3	9.1	43.5	34.4	Vert.	100	353	BC	
7	190.854	21.9	16.2	7.8	32.1	-0.1	13.7	43.5	29.8	Vert.	100	247	BC	
8	884.572	21.3	21.4	10.6	31.1	0.0	22.2	46.0	23.8	Vert.	100	1	LP	
9	926.400	20.1	21.8	10.7	30.8	0.0	21.8	46.0	24.2	Vert.	100	0	LP	
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DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber

Date: 2014/05/26

Company Kind of EUT Sony Engineering Corporation

RF glow-stick receiver FFS-R9

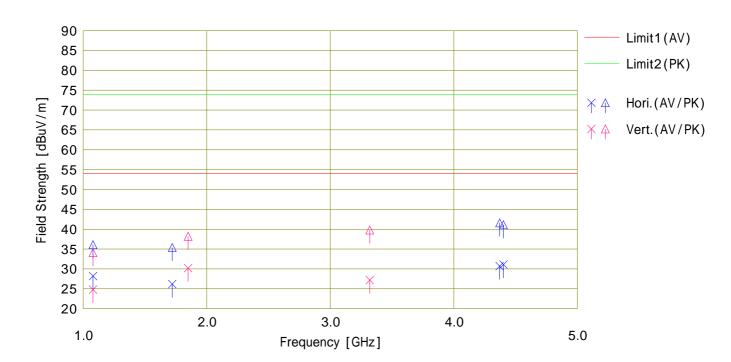
Model No. Serial No. No.1 Remarks EUT:X

Receiving 922.4MHz 10354314S DC 3V Mode

Order No. Power

: 10354314S : DC 3V : 21deg.C. / 42%RH Temp./Humi.

Limit1: FCC 15B Class B (3m) AV Limit2: FCC 15B Class B (3m) Peak



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DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber

Date: 2014/05/26

Company Kind of EUT Sony Engineering Corporation

RF glow-stick receiver FFS-R9 No.2

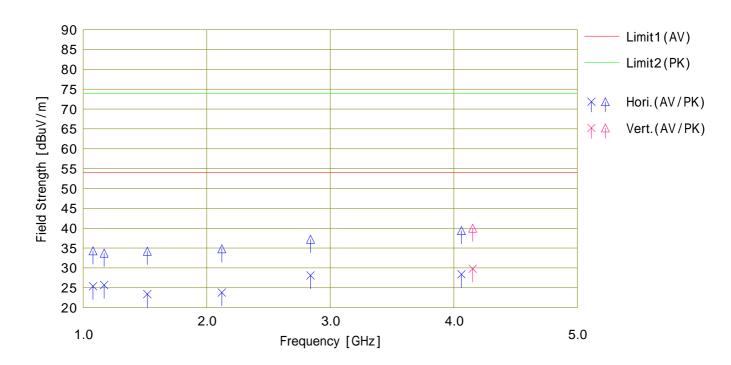
Model No. Serial No. Remarks EUT:X

Receiving 924.4MHz 10354314S Mode

Order No. Power

: 10354314S : DC 3V : 21deg.C. / 42%RH Temp./Humi.

Limit1: FCC 15B Class B (3m) AV Limit2: FCC 15B Class B (3m) Peak



	F	Rea	ding	A-4.5		0-:-	Re	sult	Lir	mit	Mai	rgin	D-1-	11-1-64	A 1 -		
No.	Freq.	<av></av>	<pk></pk>	Ant.Fac	Loss	Gain	<av></av>	<pk></pk>	<av></av>	<pk></pk>	<av></av>	<pk></pk>	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[H/V]	[cm]	[deg]	.,,,,	
1	1079.678	39.5	48.4	23.9		40.8		34.3	53.9	73.9	28.5			100		SHA03	
2	1169.986	39.2	47.2	24.3		40.8		33.7	53.9	73.9	28.2		Hori.	100		SHA03	
3	1519.162	35.1	45.9			40.9		34.2			30.5		Hori.	100		SHA03	
4	2122.416	34.2	45.2	26.7		41.3		34.8	53.9	73.9	30.1	39.1	Hori.	100		SHA03	
5	2840.441	36.1	45.2	27.8	5.0	40.8	28.1	37.2	53.9	73.9	25.8	36.7	Hori.	100		SHA03	
6	4061.305	34.2		28.7		40.5		39.4						100		SHA03	
7	4152.686	35.4	45.6	28.8	6.0	40.4	29.8	40.0	53.9	73.9	24.1	33.9	Vert.	100	0	SHA03	
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DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber

Date: 2014/05/26

Company Kind of EUT Sony Engineering Corporation

RF glow-stick receiver FFS-R9

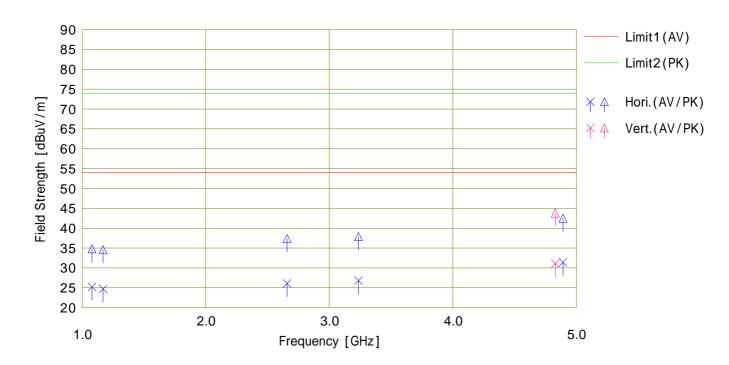
Model No. No.3 Serial No. Remarks EUT:X

Receiving 926.4MHz 10354314S DC 3V Mode

Order No. Power

: 10354314S : DC 3V : 21deg.C. / 42%RH Temp./Humi.

Limit1: FCC 15B Class B (3m) AV Limit2: FCC 15B Class B (3m) Peak



No.	Freq.	Reading			. 7		Result		Limit		Margin				Al		
		<av></av>	<pk></pk>	Ant.Fac	Fac Loss	Gain	<av></av>	<pk></pk>	<av></av>	<pk></pk>	<av></av>	<pk></pk>	Pola.	Height	Angle	Ant. Type	Comment
	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[H/V]	[cm]	[deg]		
1	1079.874	39.3	48.9	23.9	2.8	40.8	25.2	34.8	53.9	73.9	28.7	39.1	Hori.	100	51	SHA03	
2	1169.552	38.2	48.1	24.3	3.0	40.8	24.7	34.6	53.9	73.9	29.2	39.3	Hori.	100	15	SHA03	
3	2658.632	34.9	46.2	27.3	4.8	40.9	26.1	37.4	53.9	73.9	27.8	36.5	Hori.	100	81	SHA03	
4	3235.958	34.2	45.3	28.1	5.4	40.9	26.8	37.9	53.9	73.9	27.1	36.0	Hori.	100	1	SHA03	
5	4891.379	33.2	44.3	31.4	6.5	39.7	31.4	42.5	53.9	73.9	22.5	31.4	Hori.	100	0	SHA03	
6	4828.880	33.2	45.9	31.1	6.5	39.7	31.1	43.8	53.9	73.9	22.8	30.1	Vert.	100	10	SHA03	
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APPENDIX Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2014/02/14 * 12
SAT6-06	Attenuator	JFW	50HF-006N	-	RE	2014/02/17 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2013/10/26 * 12
	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhne r/Suhner/Suhner/Suhn er/TOYO	1DE /141DE /141DE	-/0901-271(RF Selector)	RE	2014/04/25 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2013/10/26 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2014/02/21 * 12
STR-06	Test Receiver	Rohde & Schwarz	ESCI	101259	RE	2014/03/04 * 12
SJM-15	Measure	ASKUL	-	-	RE	-
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2013/07/09 * 12
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RFI,MF)	-	RE	_
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2014/05/23 * 12
SCC-G01	Coaxial Cable	Suhner	SUCOFLEX 104A	46497/4A	RE	2014/04/22 * 12
SCC-G21	Coaxial Cable	Suhner	SUCOFLEX 104	296169/4	RE	2014/05/15 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2013/08/19 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE	2014/03/17 * 12

The expiration date of the calibration is the end of the expired month . As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item:

RE: Radiated emission