



FCC TEST REPORT

according to

FCC Rules and Regulations Part 15 Subpart C

Applicant	: Seal Electronics Asia Limited
Address	: Room E, 6th Floor, Eastern Commercial Centre, 395-399 Hennessy Road, Wan Chai, Hong Kong
Equipment	: Wireless Camera
Model No.	: C7013DW4, C3500, E-CSM-0003
FCC ID	: 2AA4IE-CSM-0003
Trademark	: Soundamax

- The test result refers exclusively to the test presented test model / sample.
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History of this test report

☒ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Issue Date	Description



CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations Part 15 Subpart C

Applicant	: Seal Electronics Asia Limited
Address	: Room E, 6th Floor, Eastern Commercial Centre, 395-399 Hennessy Road, Wan Chai, Hong Kong
Manufacturer	: ZHUHAI ISMART DIGITAL CO., LTD
Address	: 4/F, Block B, No.9 Xinwan 6th Rd., Hongwan Commercial & Logistics Centre, Zhuhai, GuangDong, P.R. China
Equipment	: Wireless Camera
Model No.	: C7013DW4, C3500, E-CSM-0003
Trademark	: Soundamax
FCC ID	: 2AA4IE-CSM-0003

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2010)**.

The test was carried out on Aug 20~ Sep 29,2013 at **CerpPASS Technology Corp.**

Signature

Miro Chueh/ Technical director



1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209	. Radiated Emission	Pass
15.215	. 20dB Bandwidth Measurement	Pass
15.249	. Band Edges Measurement Data	Pass



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Frequency	2411MHz -2472MHz	
Model No.	C7013DW4, C3500, E-CSM-0003	
Model Differences	All models are identical to each other except for marketing purpose.	
Power Supply	DC 5V supplied by AC Adapter	
Adapter	Model No :	PSEA050100U W
	Input:	AC100-240V-50/60Hz 0.25A
	Output:	DC5V, 1.0A
Antenna type	1/4 Wavelength Antenna with 3.0dBi	
Modulation technology	FHSS	
Temperature Range	0-60°C	

2.2 Test Mode & Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4
- The complete test system included EUT for RF test.
- The EUT was executed to keep transmitting .
- The following test mode was performed for conduction and radiation test:
 - CH low : 2411MHz, CH Mid: 2441MHz, CH High: 2472MHz.

2.3 Description of Test System

Device	Manufacturer	Model No.	Description
Remote workstation			
Monitor	DELL	U3011t	N/A
Digital Wireless Baby Monitor	ZHUHAI ISMART DIGITAL CO., LTD	M0353LW4	Receiver



2.4 General Information of Test

Test Site:	CerpPASS Technology Corp.
Performand Location :	No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China
NVLAP LAB Code :	200814-0
FCC Registration Number :	916572, 331395
IC Registration Number :	7290A-1, 7290A-2
VCCI Registration Number :	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz

LABORATORY ACCREDITATION



2.5 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	±2.71 dB
Radiated Emission	30 MHz ~ 25GHz	Vertical	±4.11 dB
		Horizontal	±4.10 dB
Occupied Bandwidth	---	---	±7500 Hz
Maximum Peak Output Power	---	---	±1.4 dB
Band Edges	---	---	±2.2 dB
Power Spectral Density	---	---	±2.2 dB



3. Antenna Requirements

3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

3.2 Antenna Construction and Directional Gain

Antenna type: 1/4 Wavelength Antenna

Antenna Gain: 3.0 dBi



4. Test of Conducted Emission

4.1 Test Limit

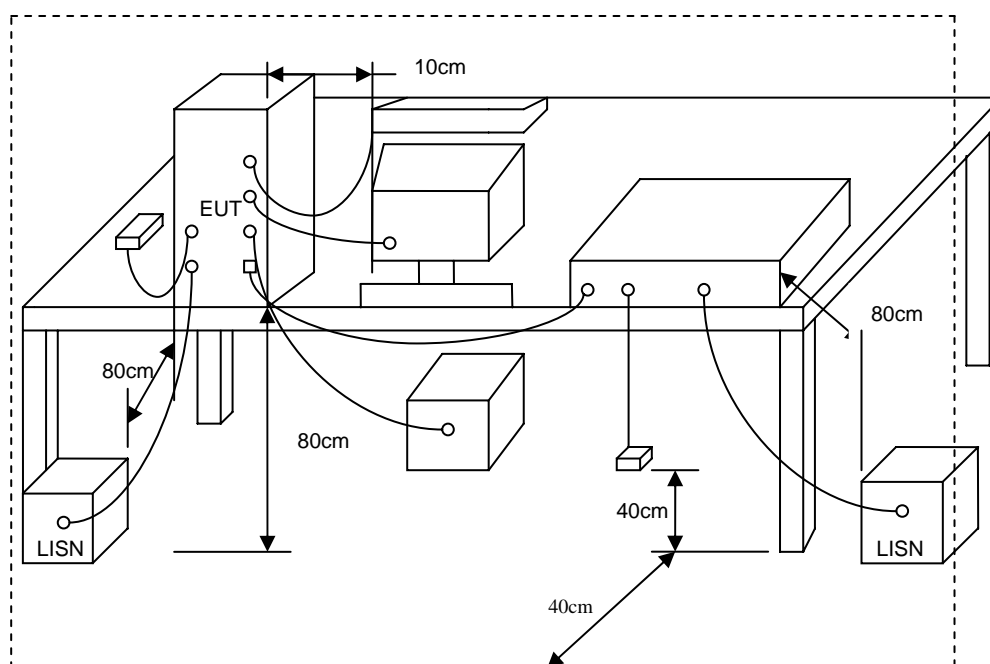
Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



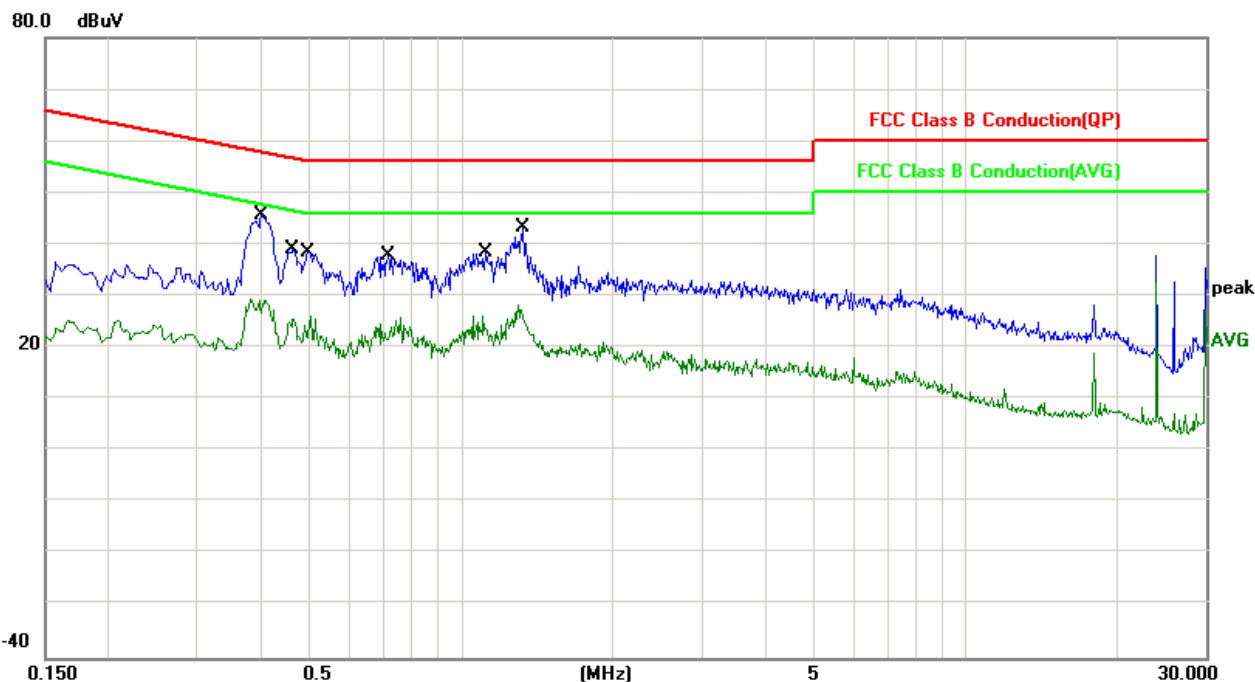
4.4 Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2013.01.15	2014.01.14
ISN	FCC	FCC-TLISN-T2-02	20379	2013.03.14	2014.03.13
ISN	FCC	FCC-TLISN-T4-02	20380	2013.03.14	2014.03.13
ISN	FCC	FCC-TLISN-T8-02	20381	2013.03.14	2014.03.13



4.5 Test Result and Data

Power	: AC 120V/60Hz	Pol/Phase	: LINE
Test Mode	: normal link	Temperature	: 25 °C
Memo	:	Humidity	: 60 %

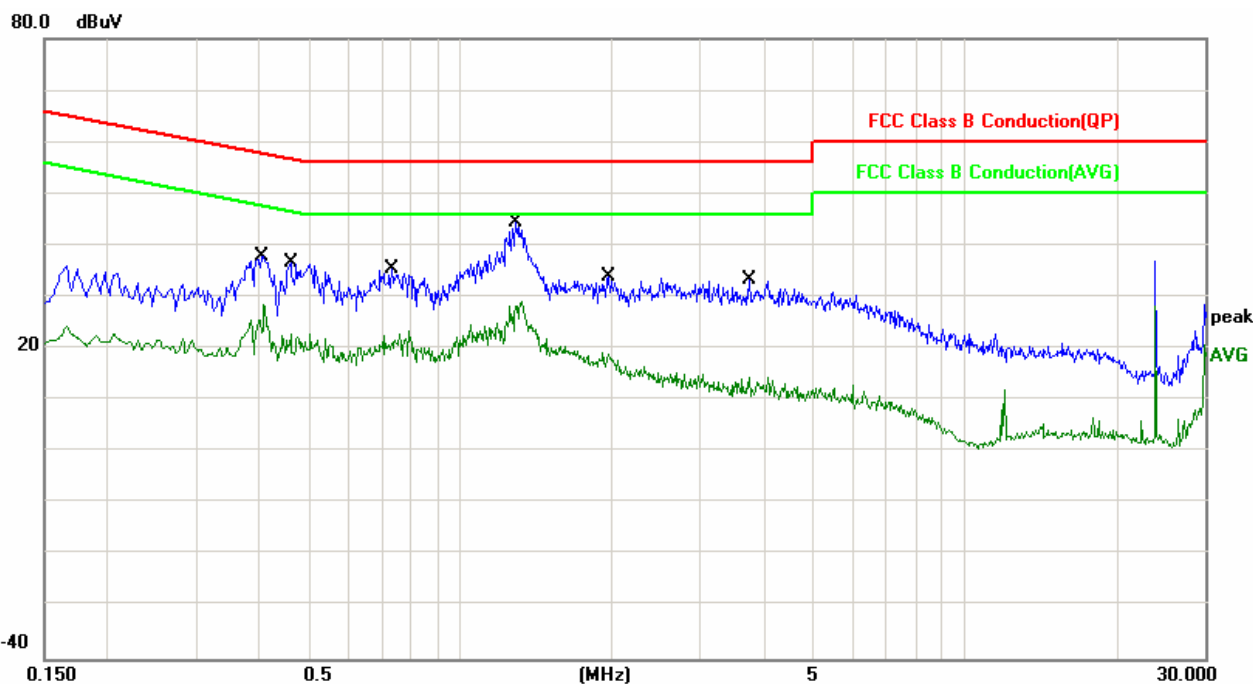


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.4020	0.05	41.72	41.77	57.81	-16.04	QP	
2	0.4020	0.05	27.71	27.76	47.81	-20.05	AVG	
3	0.4660	0.06	35.79	35.85	56.58	-20.73	QP	
4	0.4660	0.06	23.51	23.57	46.58	-23.01	AVG	
5	0.4980	0.06	35.78	35.84	56.03	-20.19	QP	
6	0.4980	0.06	24.29	24.35	46.03	-21.68	AVG	
7	0.7180	0.09	33.44	33.53	56.00	-22.47	QP	
8	0.7180	0.09	21.94	22.03	46.00	-23.97	AVG	
9	1.1220	0.11	32.60	32.71	56.00	-23.29	QP	
10	1.1220	0.11	22.29	22.40	46.00	-23.60	AVG	
11	1.3300	0.11	34.09	34.20	56.00	-21.80	QP	
12	1.3300	0.11	24.26	24.37	46.00	-21.63	AVG	

Note: Measurement Level = Reading Level + Correct Factor



Power	: AC 120V/60Hz	Pol/Phase	: NEUTRAL
Test Mode	: normal link	Temperature	: 25 °C
Memo	:	Humidity	: 60 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.4060	0.11	35.75	35.86	57.73	-21.87	QP	
2	0.4060	0.11	24.19	24.30	47.73	-23.43	AVG	
3	0.4620	0.11	32.35	32.46	56.66	-24.20	QP	
4	0.4620	0.11	21.76	21.87	46.66	-24.79	AVG	
5	0.7340	0.14	30.50	30.64	56.00	-25.36	QP	
6	0.7340	0.14	20.37	20.51	46.00	-25.49	AVG	
7	1.2940	0.16	38.70	38.86	56.00	-17.14	QP	
8	1.2940	0.16	25.83	25.99	46.00	-20.01	AVG	
9	1.9700	0.18	26.95	27.13	56.00	-28.87	QP	
10	1.9700	0.18	16.58	16.76	46.00	-29.24	AVG	
11	3.7580	0.24	24.35	24.59	56.00	-31.41	QP	
12	3.7580	0.24	9.78	10.02	46.00	-35.98	AVG	

Note: Measurement Level = Reading Level + Correct Factor



5. Test of Radiated Emission

5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2009. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions. For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V / M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V / M)
30-230	10	30
230-1000	10	37

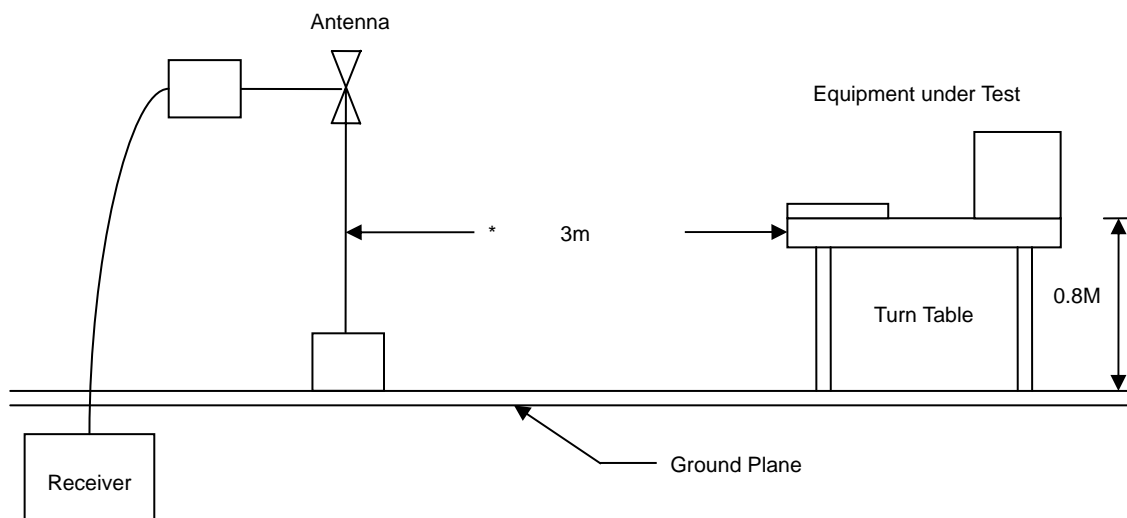
5.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

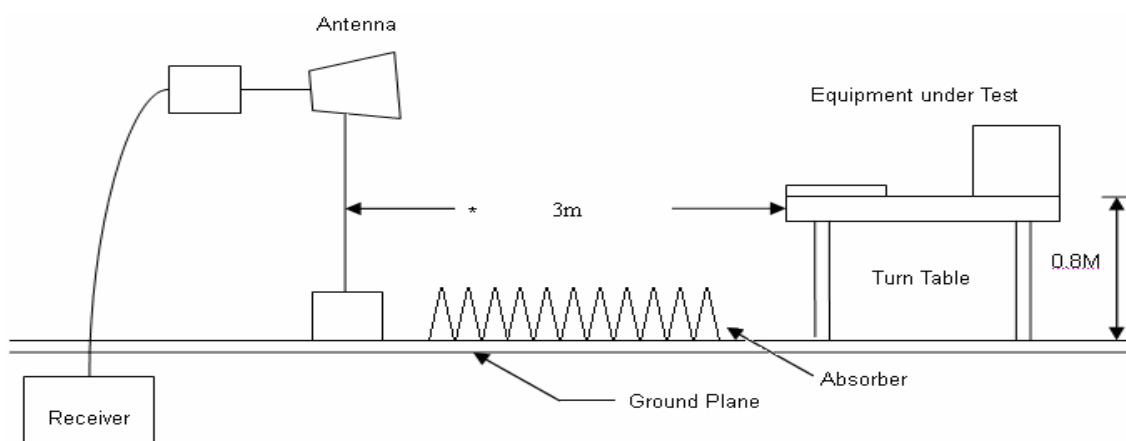


5.3 Typical Test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup



**5.4 Measurement equipment**

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	100563	2013.03.10	2014.03.09
H64 Preamplifier	HP	8447F	3113A05582	2013.03.10	2014.03.09
Preamplifier	Agilent	8449B	3008A02342	2013.03.10	2014.03.09
Ultra Broadband Antenna	R&S	HL562	100362	2013.05.03	2014.05.02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2013.05.03	2014.05.02
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2013.05.15	2014.05.15
Spectrum Analyzer	R&S	FSP40	100324	2013.03.10	2014.03.09
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2013.03.10	2014.03.09



5.5 Test Result and Data

The 9kHz-30MHz spurious emission is under limit 20dB more.

5.5.1 Test Result and Data of Transmitter

Under 1G

Site : EMC Lab AC 102	Time : 2013-9-25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: TX	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	

VERTICAL

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	35.8200	-8.42	46.90	38.48	40.00	-1.52	QP	100	306
2	60.0700	-17.20	53.20	36.00	40.00	-4.00	QP	100	283
3	504.3300	-2.30	42.61	40.31	46.00	-5.69	QP	100	34
4	888.4500	2.87	42.40	45.27	46.00	-0.73	QP	100	133
5	935.9800	3.36	40.82	44.18	46.00	-1.82	QP	100	132
6	984.4800	4.33	39.22	43.55	54.00	-10.45	QP	100	337

HORIZONTAL

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	263.7699	-8.74	46.27	37.53	46.00	-8.47	QP	100	352
2	288.0199	-8.03	46.24	38.21	46.00	-7.79	QP	100	345
3	504.3299	-2.30	41.03	38.73	46.00	-7.27	QP	100	1
4	743.9198	1.23	37.15	38.38	46.00	-7.62	QP	200	359
5	888.4500	2.87	39.57	42.44	46.00	-3.56	QP	100	256
6	984.4800	4.33	40.61	44.94	54.00	-9.06	QP	100	211

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Above 1G

Site : EMC Lab AC 102	Time : 2013-9-29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit 2411MHz	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	

VERTICAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4816.000	9.035	45.137	54.172	-19.828	74.000	PEAK
2	4816.000	9.035	30.965	40.000	-14.000	54.000	AVG
3	7240.000	13.249	44.703	57.952	-16.048	74.000	PEAK
4	7240.000	13.249	29.001	42.250	-11.750	54.000	AVG
5	9640.000	16.849	43.165	60.014	-13.986	74.000	PEAK
6	9640.250	16.852	28.398	45.250	-8.750	54.000	AVG

HORIZONTAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4816.000	9.650	44.406	54.056	-19.944	74.000	PEAK
2	4816.250	9.650	30.615	40.265	-13.735	54.000	AVG
3	7240.000	13.073	43.446	56.519	-17.481	74.000	PEAK
4	7240.250	13.079	28.671	41.750	-12.250	54.000	AVG
5	9640.000	17.212	49.238	66.450	-7.550	74.000	PEAK
6	9640.330	17.216	34.564	51.780	-2.220	54.000	AVG

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Site : EMC Lab AC 102	Time : 2013-9-29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit 2441MHz	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	

VERTICAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4885.690	9.020	43.340	50.360	-3.640	54.000	AVG
2	4888.000	9.020	57.969	66.989	-7.011	74.000	PEAK
3	7336.000	15.113	50.225	65.338	-8.662	74.000	PEAK
4	7336.330	15.119	35.621	50.740	-3.260	54.000	AVG
5	9784.000	18.668	42.544	61.212	-12.788	74.000	PEAK
6	9784.560	18.675	27.285	45.960	-8.040	54.000	AVG

HORIZONTAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4888.000	9.660	57.101	66.761	-7.239	74.000	PEAK
2	4888.250	9.660	42.080	51.740	-2.260	54.000	AVG
3	7336.000	15.275	51.674	66.949	-7.051	74.000	PEAK
4	7336.120	15.278	35.504	50.782	-3.218	54.000	AVG
5	9760.000	18.503	47.161	65.664	-8.336	74.000	PEAK
6	9760.250	18.506	32.259	50.765	-3.235	54.000	AVG

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



Site : EMC Lab AC 102	Time : 2013-9-25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit 2472MHz	Probe : VERTICAL/ HORIZONTAL
Power : AC 120V/60Hz	

VERTICAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4935.580	9.005	44.275	50.280	-3.720	54.000	AVG
2	4936.000	9.005	59.046	68.051	-5.949	74.000	PEAK
3	7408.000	16.304	53.658	69.962	-4.038	74.000	PEAK
4	7410.230	16.305	37.965	50.270	-3.730	54.000	AVG
5	9880.000	18.448	41.905	60.353	-13.647	74.000	PEAK
6	9880.360	18.446	26.564	45.010	-8.990	54.000	AVG
7	12375.170	21.104	22.586	43.690	-10.310	54.000	AVG
8	12376.000	21.105	39.312	60.417	-13.583	74.000	PEAK

HORIZONTAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4936.000	9.670	61.036	70.706	-3.294	74.000	PEAK
2	4936.250	9.670	46.290	50.960	-3.040	54.000	AVG
3	7408.000	16.682	51.876	68.558	-5.442	74.000	PEAK
4	7408.470	16.686	37.004	50.690	-3.310	54.000	AVG
5	9880.000	18.669	44.386	63.055	-10.945	74.000	PEAK
6	9880.360	18.668	30.042	48.710	-5.290	54.000	AVG
7	12376.000	21.809	39.302	61.111	-12.889	74.000	PEAK
8	12376.140	21.809	23.951	45.760	-8.240	54.000	AVG

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor



6. 20dB Bandwidth Measurement Data

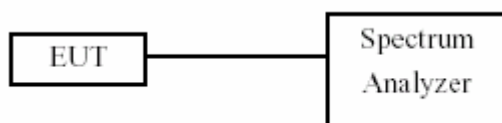
6.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

6.3 Test Setup Layout



6.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	100324	2013.03.10	2014.03.09

6.5 Test Result and Data

Test Date: 2013-9-25

Temperature: 25°C

Atmospheric pressure: 1020 hPa

Humidity: 55%

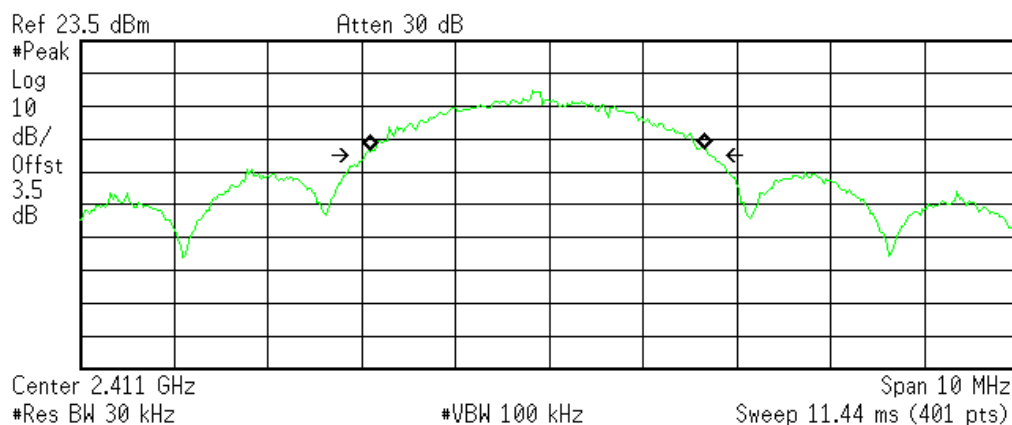
Channel	Frequency (MHz)	20dB Bandwidth (KHz)
Low	2411	3696.00
Mid	2441	3892.00
High	2472	3813.00



Channel: Low

* Agilent 10:38:21 Sep 28, 2013

R T



Occupied Bandwidth
3.5673 MHz

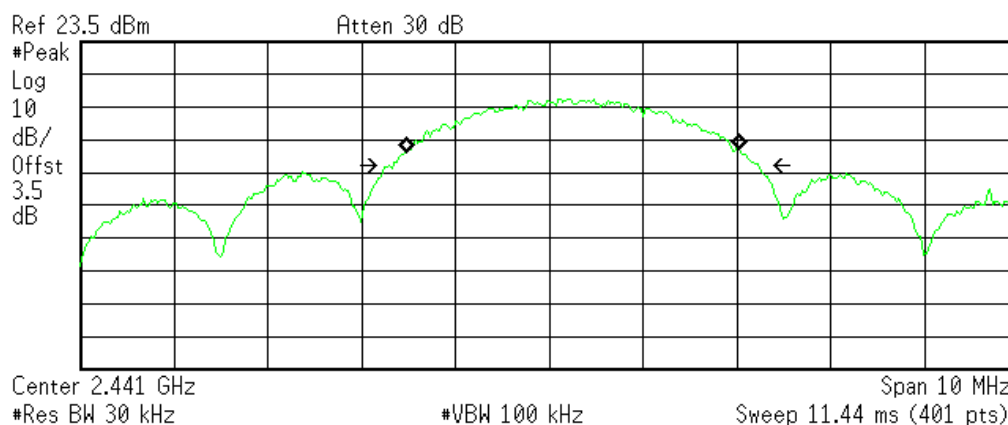
Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error -124.120 kHz
x dB Bandwidth 3.696 MHz

Channel: Mid

* Agilent 10:39:19 Sep 28, 2013

R T



Occupied Bandwidth
3.5702 MHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

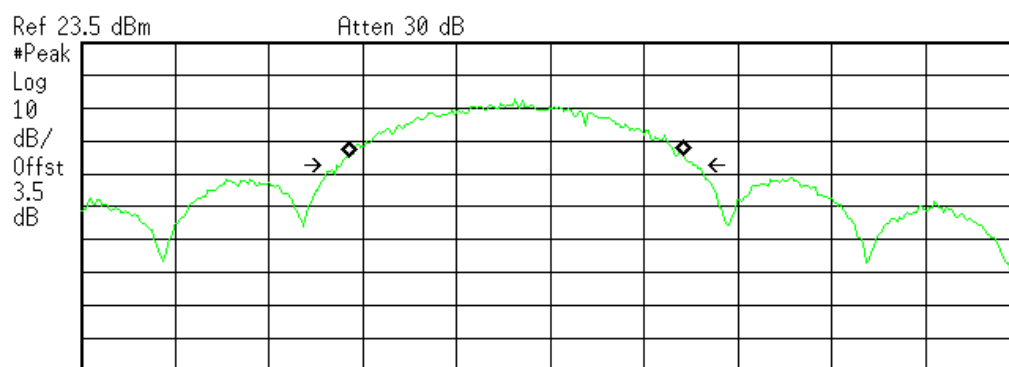
Transmit Freq Error 251.642 kHz
x dB Bandwidth 3.892 MHz

Channel: High



Agilent 10:36:46 Sep 28, 2013

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Center 2.472 GHz

#Res BW 30 kHz

#VBW 100 kHz

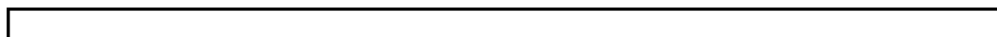
Span 10 MHz

Sweep 11.44 ms (401 pts)

Occupied Bandwidth
3.5692 MHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error -366.036 kHz
x dB Bandwidth 3.813 MHz





7. Band Edges Measurement

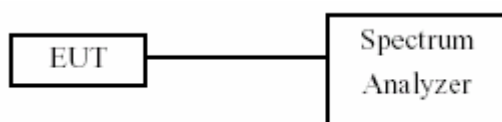
7.1 Test Limit

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	100324	2013.03.10	2014.03.09



7.5 Restrict band emission Measurement Data

Test Date : 2013-9-29
Temperature : 23°C
Humidity : 65%
Atmospheric Pressure : 1020 hPa

Channel Low

Fundamental Frequency: 2411 MHz

VERTICAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	2.005	35.103	37.108	-36.892	74.000	PEAK
2	2390.000	2.005	20.645	22.650	-31.350	54.000	AVG

HORIZONTAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	1.839	35.153	36.992	-37.008	74.000	PEAK
2	2390.000	1.839	19.631	21.470	-32.530	54.000	AVG

Channel High

Fundamental Frequency: 2472 MHz

VERTICAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	2.030	37.222	39.252	-34.748	74.000	PEAK
2	2483.500	2.030	23.440	25.470	-28.530	54.000	AVG

HORIZONTAL

No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	1.915	36.880	38.795	-35.205	74.000	PEAK
2	2483.500	1.915	23.445	25.360	-28.640	54.000	AVG
3	2568.000	2.206	42.246	44.452	-29.548	74.000	PEAK
4	2568.000	2.206	27.964	30.170	-23.830	54.000	AVG

Notes:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz



8. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

8.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.