

FCC&IC Radio Test Report

FCC ID: SIB-SNBJR-MT5C

IC: 6719D-SNBJRMT5C

This report concerns (check one): Original Grant Class II Change

Project No. : 1406C191 Equipment : nabi Tablet

Model Name : SNBJR-MT5C; SNBJR-MT5D Applicant : Foxconn International Inc.

Address : No.2, Ziyou St., Tucheng Dist., New

Taipei City 236, Taiwan

Tested by: BTL Inc.

Date of Receipt: Jun. 24, 2014

Date of Test: Jun. 24, 2014~ Jul. 07, 2014

Issued Date: Jul. 09, 2014

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-4-1406C191	Original Issue.	Jul. 09, 2014

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1. CERTIFICATION

Equipment : nabi Tablet

Brand Name: nabi

Model Name: SNBJR-MT5C; SNBJR-MT5D Applicant: Foxconn International Inc.

Manufacturer: FUHU INC

Address : 909 N SEPULVEDA BLVD STE 540 EL SEGUNDO, CA 90245-2733

Date of Test : Jun. 24, 2014~ Jul. 07, 2014 Test Item : ENGINEERING SAMPLE

Standard(s): FCC Part15, Subpart C:2013 (15.247) / ANSI C63.4-2009

Canada RSS-210:2010 RSS-GEN Issue 3, Dec 2010

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-4-1406C191) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C Canada RSS-210:2010; RSS-GEN Issue 3, Dec 2010						
Standard	(s) Section	Test Item	Judgment	Remark		
15.207	RSS-GEN 7.2.2	Conducted Emission	PASS			
15.247(d)	RSS-210 Annex 8 (A8.5)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	RSS-210 Annex 8 (A8.2(a))	6dB Bandwidth	PASS			
15.247(b)(3)	RSS-210 Annex 8 (A8.4(4))	Peak Output Power	PASS			
15.247(e)	RSS-210 Annex 8 (A8.2(b))	Power Spectral Density	PASS			
15.203	-	Antenna Requirement	PASS			
15.209/15.205	RSS-210 Annex 8 (A8.5)	Transmitter Radiated Emissions	PASS			

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

BTL's test firm number for FCC: 319330 BTL's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % \circ

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISEIX	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
	1GHz~18GHz	Н	3.68		
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	nabi Tablet		
Brand Name	nabi		
Model Name	SNBJR-MT5C; SNBJR-MT5D		
Model Difference	Only differ in model name and memory (SNBJR-MT5C: 8GB; SNBJR-MT5D: 16GB).		
	Operation Frequency	2402~2480 MHz	
Product Description	Modulation Technology	GFSK(1Mbps)	
. reduct Decemption	Bit Rate of Transmitter	Gr Gr(TWIDDS)	
	Output Power (Max.)	1.43dBm (1Mbps)	
Power Source	#1 DC voltage supplied from AC adapter. Brand / Model: Chicony / W12-010N3A #2 Supplied from rechargeable Li-ion polymer battery. Brand / Model: McNair / MLP496069		
Power Rating	#1 I/P: AC 100-240V~50/60Hz 0.3A O/P: DC 5V 2A #2 DC 3.7V 2400mAh 8.88Wh		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.

Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
00	2402	20	2442	
01	2404	21	2444	
02	2406	22	2446	
03	2408	23	2448	
04	2410	24	2450	
05	2412	25	2452	
06	2414	26	2454	
07	2416	27	2456	
08	2418	28	2458	
09	2420	29	2460	
10	2422	30	2462	
11	2424	31	2464	
12	2426	32	2466	
13	2428	33	2468	
14	2430	34	2470	
15	2432	35	2472	
16	2434	36	2474	
17	2436	37	2476	
18	2438	38	2478	
19	2440	39	2480	

3. Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	
1	JIENG TAI	AH-JT-0219N030 4	PIFA	N/A	2.72	

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test				
Final Test Mode Description				
Mode 2	TX Mode			

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX Mode NOTE (1)	

Note:

(1) The measurements are performed at the high, middle, low available channels.

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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

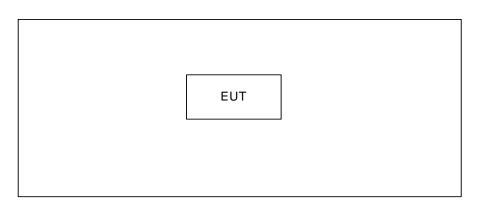
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version		N/A	
Frequency	2402MHz	2440 MHz	2480MHz
GFSK-1Mbps	N/A	N/A	N/A

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
-	-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Note:

(1) For detachable type I/O cable should be specified the length in m in <code>"Length_"</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Fraguency (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

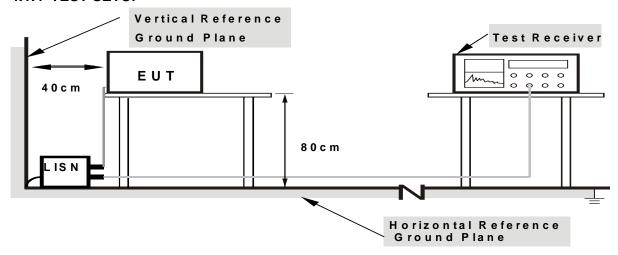
4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable in this test report.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Section 15.33 Frequency range of radiated measurements.

Unless otherwise noted in the specific rule section under which the equipment operates for an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

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Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	ANULT / ANULT for Dook A MUT / ADULT for Average	
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

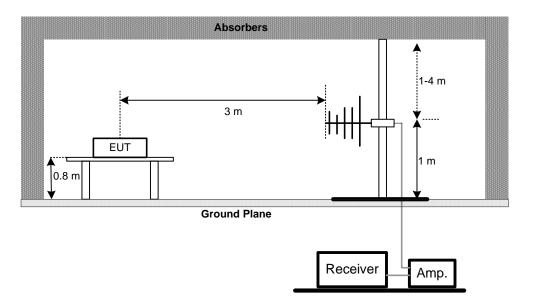
No deviation

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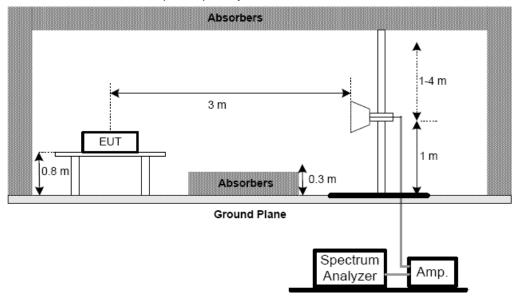


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



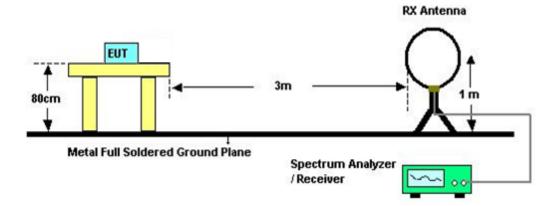
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% **Test Voltage**: AC120V/60Hz

4.2.7 TEST RESULTS-BETWEEN 30MHZ AND 1000MHZ

Please refer to the Attachment B.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show

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4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment C.

Remark

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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5. BANDWIDTH TEST

5.1 Applied procedures / limit

The state of the s				
FCC Part15 (15.247), Subpart C/ RSS-GEN and RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)				
RSS-GEN section		> _ 500KHz		
4.6.1	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS
RSS-210 Annex 8				
(A8.2(a))				

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment D.

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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C/ RSS-210					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(b)(3) RSS-210 Annex 8.4(4)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.3.1 of FCC KDB 558074

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Ower west

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment E.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

20dB in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified 15.205(a) & RSS-210 section 2.2& Annex 8 (A8.5), then the 15.209(a) & RSS-GEN limit in the table below has to be followed.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)				
0.009~0.490	2400/F(KHz)	300				
0.490~1.705	24000/F(KHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3				
216~960	200	3				
960~1000	500	3				

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	•	SPECTRUM
		ANALYZER

7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment F.

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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C / RSS-210					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e) RSS-210 Annex 8(A8.2(b))	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment G.

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9. MEASUREMENT INSTRUMENTS LIST

	Radiated Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015			
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015			
3	Test Receiver	R&S	ESCI	100382	Mar. 29, 2015			
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 11, 2015			
5	Antenna	ETS	3115	00075789	Mar. 29, 2015			
6	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015			
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014			
8	Test Cable	HUBER+SUHNER	C-45	N/A	Mar. 29, 2015			
9	Controller	СТ	SC100	N/A	N/A			
10	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015			
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015			
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct. 22, 2014			

	6dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014		

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	Peak Output Power Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015			
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015			

Antenna Conducted Spurious Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014	

		Power Spectral De	ensity Measu	rement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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10. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos

9KHz~30MHz





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Radiated Measurement Photos

30~1000MHz





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Radiated Measurement Photos

Above 1000MHz





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ATTACHMENT A - CONDUCTED EMISSION

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Test Mode: TX

	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-		MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
	1	0.1500	30.14	9.52	39.66	66.00	-26.34	peak	
-	2	0.2164	24.97	9.55	34.52	62.96	-28.44	peak	
	3	0.2945	25.28	9.59	34.87	60.40	-25.53	peak	
	4 *	0.4781	33.04	9.69	42.73	56.37	-13.64	peak	
-	5	0.7164	25.22	9.62	34.84	56.00	-21.16	peak	
	6	0.9391	24.95	9.69	34.64	56.00	-21.36	peak	

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Test Mode: TX

Neutral 80.0 dBuV 40 3 5 30.000

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1734	28.46	9.62	38.08	64.80	-26.72	peak	
2	0.3063	25.65	9.62	35.27	60.07	-24.80	peak	
3	0.4156	28.76	9.63	38.39	57.54	-19.15	peak	
4	0.4781	32.76	9.64	42.40	56.37	-13.97	peak	
5	0.8375	26.79	9.67	36.46	56.00	-19.54	peak	
6 *	13.5586	37.52	10.23	47.75	60.00	-12.25	peak	

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ATTACHMENT B - RADIATED EMISSION (9KHZ-30MHZ)

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Test Mode: TX	Mode 2412MHz
---------------	--------------

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0095	0°	76.35	24.97	101.32	108.09	-6.77	AVG
0.0096	0°	82.36	24.97	107.33	128.09	-20.76	PEAK
0.0234	0°	56.38	24.08	80.46	100.22	-19.76	AVG
0.0237	0°	59.35	24.08	83.43	120.22	-36.79	PEAK
0.0316	0°	57.35	23.57	80.92	97.61	-16.70	AVG
0.0318	0°	58.35	23.57	81.92	117.61	-35.70	PEAK
0.0427	0°	59.35	22.86	82.21	95.00	-12.78	AVG
0.0429	0°	63.35	22.86	86.21	115.00	-28.78	PEAK
0.4914	0°	17.45	19.82	37.27	73.78	-36.50	QP
1.7155	0°	18.63	19.53	38.16	69.54	-31.38	QP

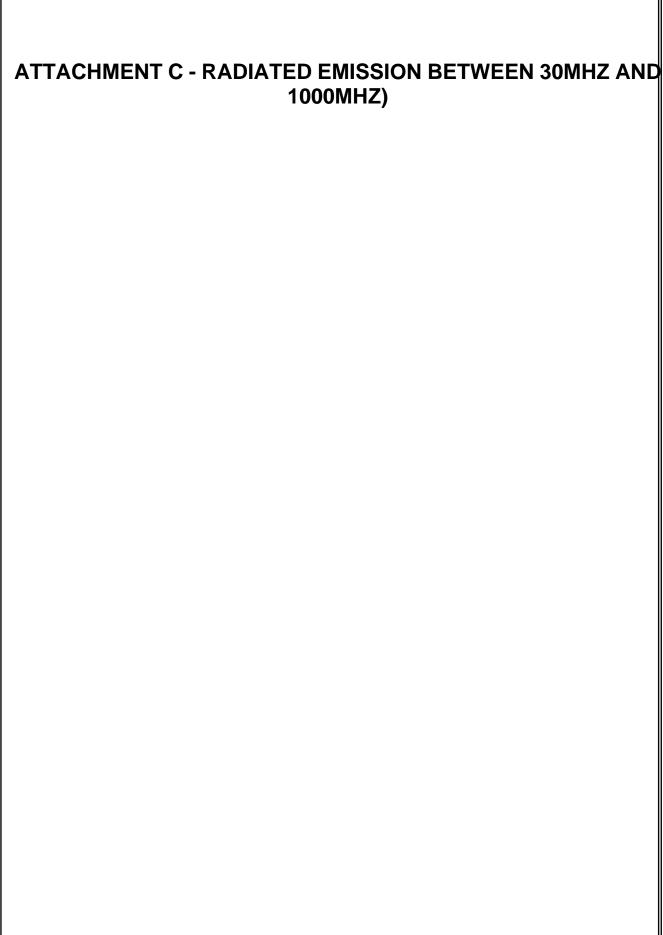
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	note
0.0094	90°	76.35	24.30	100.65	128.18	-27.53	AVG
0.0095	90°	82.36	24.30	106.66	148.18	-41.52	PEAK
0.0235	90°	56.38	24.08	80.46	120.18	-39.72	AVG
0.0235	90°	59.35	24.08	83.43	140.18	-56.75	PEAK
0.0316	90°	57.35	23.57	80.92	117.61	-36.70	AVG
0.0317	90°	58.35	23.57	81.92	137.61	-55.70	PEAK
0.0428	90°	59.35	22.86	82.21	114.98	-32.77	AVG
0.0426	90°	63.35	22.86	86.21	134.98	-48.77	PEAK
0.4913	90°	17.45	19.82	37.27	73.78	-36.51	QP
1.7157	90°	18.63	19.53	38.16	69.54	-31.38	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
 (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

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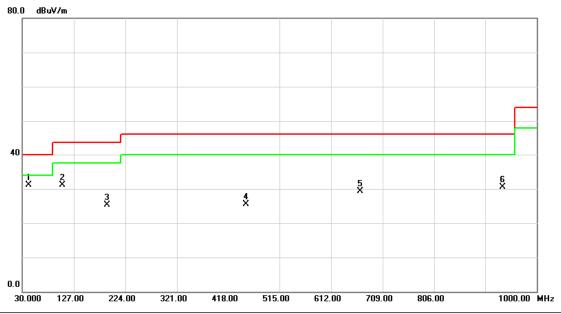


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Test Mode: TX 2402MHz -CH00 -1Mbps

Vertical



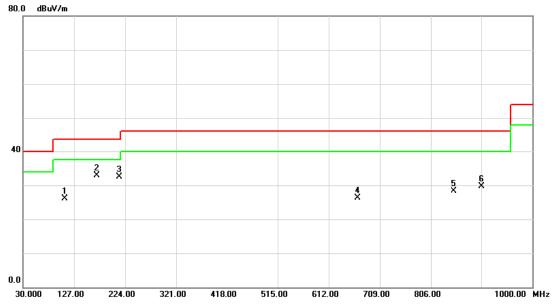
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	41.6400	45.29	-14.12	31.17	40.00	-8.83	peak	
2		105.6600	46.92	-15.89	31.03	43.50	-12.47	peak	
3		190.0500	39.66	-14.39	25.27	43.50	-18.23	peak	
4		451.9500	34.28	-8.74	25.54	46.00	-20.46	peak	
5		666.3200	34.35	-5.12	29.23	46.00	-16.77	peak	
6		935.9800	31.08	-0.67	30.41	46.00	-15.59	peak	

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Test Mode: TX 2402MHz -CH00 -1Mbps

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		109.5400	41.50	-15.46	26.04	43.50	-17.46	peak	
2	*	170.6500	45.62	-12.78	32.84	43.50	-10.66	peak	
3		212.3600	47.90	-15.31	32.59	43.50	-10.91	peak	
4		666.3200	31.48	-5.12	26.36	46.00	-19.64	peak	
5		850.6200	31.47	-3.23	28.24	46.00	-17.76	peak	
6		903.0000	31.32	-1.54	29.78	46.00	-16.22	peak	

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Test Mode: TX 2440MHz -CH19 -1Mbps

Vertical 80.0 dBuV/m 6 X 4 × 5 X X 0.0 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

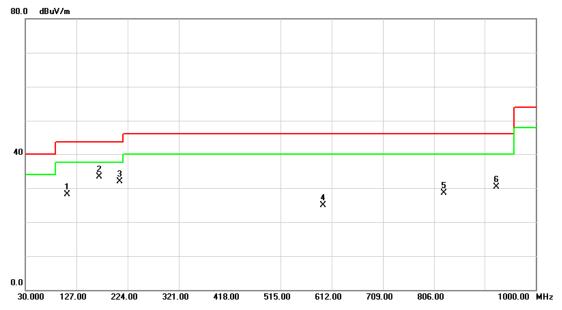
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	41.6400	45.79	-14.12	31.67	40.00	-8.33	peak	
2		103.7200	48.11	-16.11	32.00	43.50	-11.50	peak	
3		190.0500	38.16	-14.39	23.77	43.50	-19.73	peak	
4		666.3200	33.85	-5.12	28.73	46.00	-17.27	peak	
5		819.5800	31.12	-3.04	28.08	46.00	-17.92	peak	
6		935.9800	31.08	-0.67	30.41	46.00	-15.59	peak	

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Test Mode: TX 2440MHz -CH19 -1Mbps

Horizontal

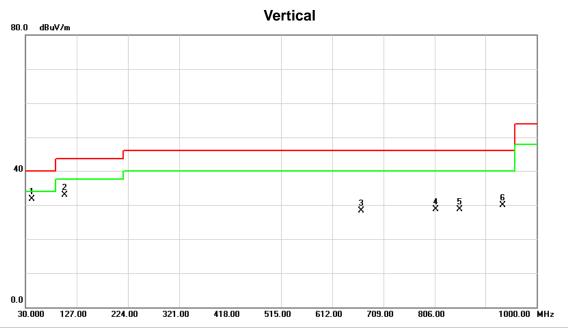


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		109.5400	43.50	-15.46	28.04	43.50	-15.46	peak	
2	*	170.6500	46.12	-12.78	33.34	43.50	-10.16	peak	
3		208.4800	47.35	-15.35	32.00	43.50	-11.50	peak	
4		595.5100	33.02	-8.10	24.92	46.00	-21.08	peak	
5		824.4300	31.64	-3.08	28.56	46.00	-17.44	peak	
6		925.3100	31.16	-0.95	30.21	46.00	-15.79	peak	

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Test Mode: TX 2480MHz -CH39 -1Mbps



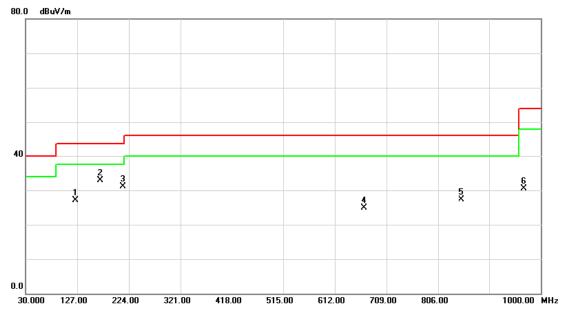
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	41.6400	45.79	-14.12	31.67	40.00	-8.33	peak	
2		103.7200	49.11	-16.11	33.00	43.50	-10.50	peak	
3		666.3200	33.35	-5.12	28.23	46.00	-17.77	peak	
4		807.9400	31.60	-2.97	28.63	46.00	-17.37	peak	
5		854.5000	31.87	-3.10	28.77	46.00	-17.23	peak	
6		935.9800	30.58	-0.67	29.91	46.00	-16.09	peak	

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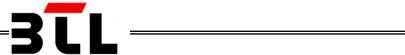
Test Mode: TX 2480MHz -CH39 -1Mbps

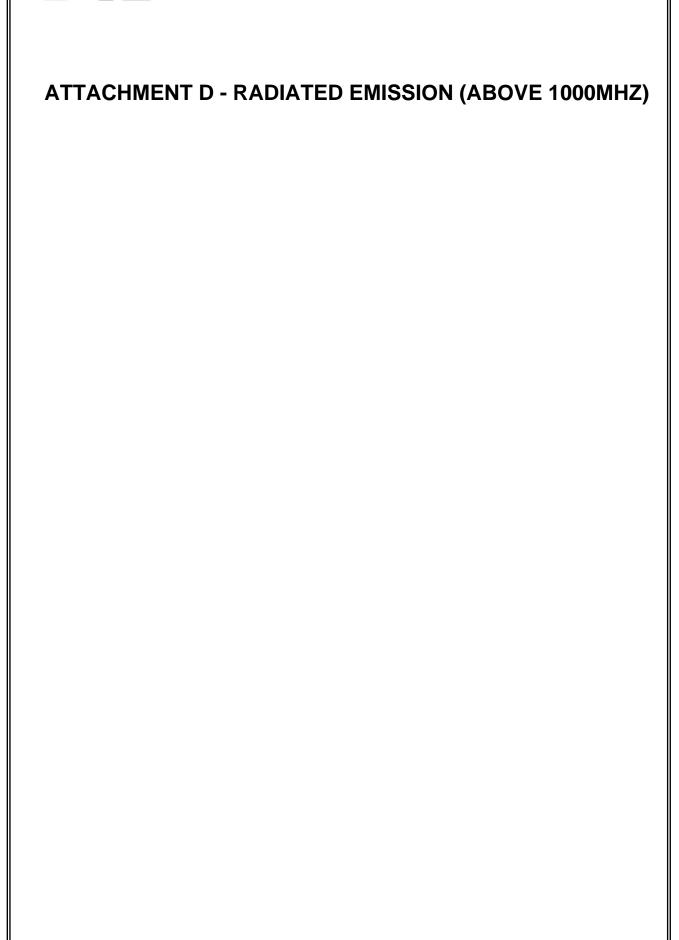
Horizontal



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		124.0900	40.91	-13.83	27.08	43.50	-16.42	peak	
	2	*	170.6500	45.62	-12.78	32.84	43.50	-10.66	peak	
_	3		212.3600	46.40	-15.31	31.09	43.50	-12.41	peak	
_	4		666.3200	29.98	-5.12	24.86	46.00	-21.14	peak	
	5		850.6200	30.47	-3.23	27.24	46.00	-18.76	peak	
	6		967.9900	30.80	-0.35	30.45	54.00	-23.55	peak	
_										

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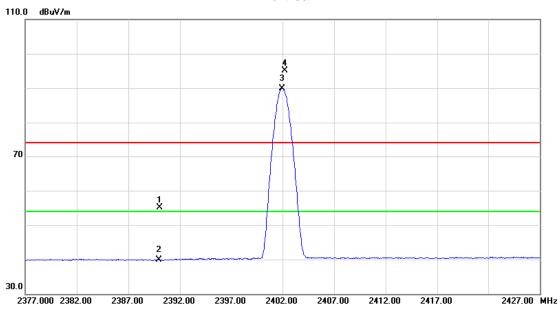


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Test Mode: TX 2402MHz _CH00_1Mbps

Vertical



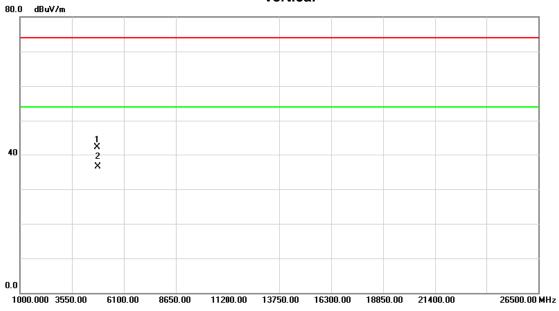
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	21.68	33.38	55.06	74.00	-18.94	peak	
2		2390.000	6.48	33.38	39.86	54.00	-14.14	AVG	
3	*	2401.950	56.52	33.41	89.93	54.00	35.93	AVG	Fundamental frequency, no limit
4	X	2402.250	61.62	33.41	95.03	74.00	21.03	peak	Fundamental frequency, no limit

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Test Mode: TX 2402MHz _CH00_1Mbps





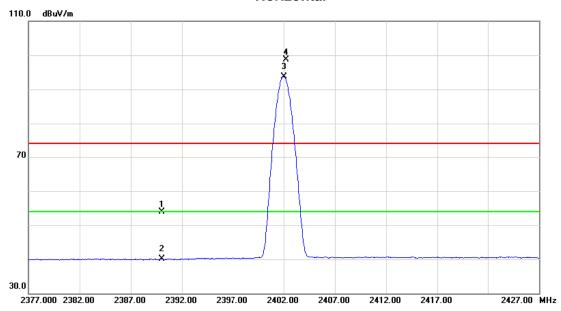
_	No.	Mk	. Freq	Reading . Level		Measure- ment		Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		4803.860	35.74	6.39	42.13	74.00	-31.87	peak	
_	2	*	4803.860	30.08	6.39	36.47	54.00	-17.53	AVG	

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Test Mode: TX 2402MHz _CH00_1Mbps

Horizontal



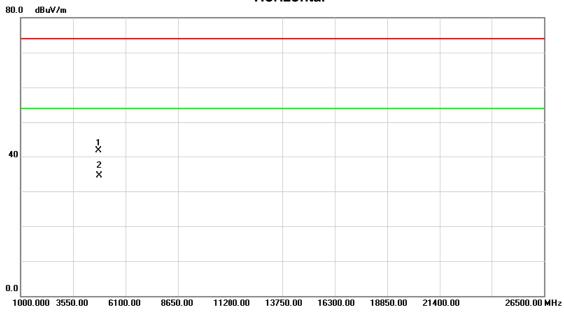
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	20.55	33.38	53.93	74.00	-20.07	peak	
2		2390.000	6.78	33.38	40.16	54.00	-13.84	AVG	
3	*	2402.000	60.26	33.41	93.67	54.00	39.67	AVG	Fundamental frequency, no limit
4	Χ	2402.250	65.38	33.41	98.79	74.00	24.79	peak	Fundamental frequency, no limit

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Test Mode: TX 2402MHz _CH00_1Mbps

Horizontal

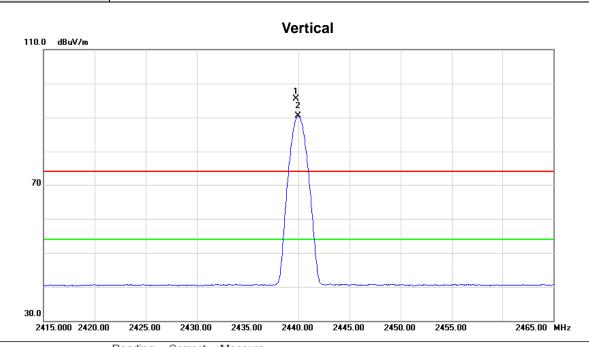


	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		4804.060	35.27	6.39	41.66	74.00	-32.34	peak	
	2	*	4804.060	28.02	6.39	34.41	54.00	-19.59	AVG	

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Test Mode: TX 2441MHz _CH19_1Mbps



	No. Mł	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1 X	2439.750	62.01	33.51	95.52	74.00	21.52	peak	Fundamental frequency, no limit
	2 *	2439.950	56.91	33.51	90.42	54.00	36.42	AVG	Fundamental frequency, no limit

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Test Mode: TX 2441MHz _CH19_1Mbps

Vertical



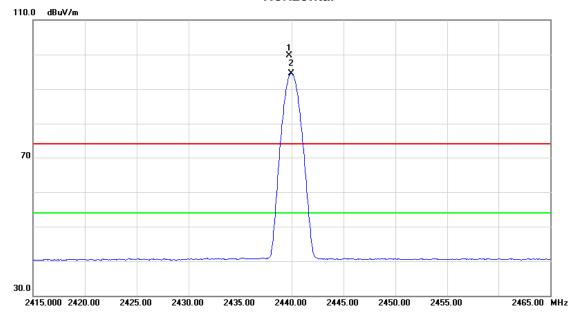
No	. 1	Λİk.	Freq.			Measure- ment		Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4	880.100	35.83	6.57	42.40	74.00	-31.60	peak	
2	*	4	880.100	28.84	6.57	35.41	54.00	-18.59	AVG	

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Test Mode: TX 2441MHz _CH19_1Mbps

Horizontal



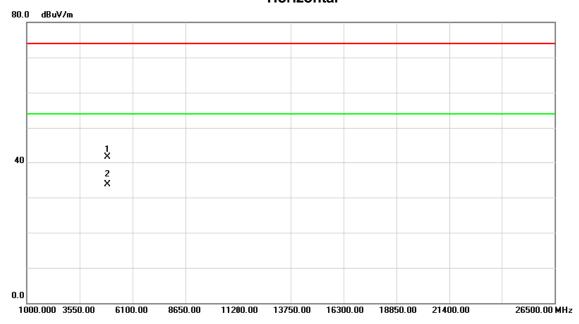
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	2439.750	66.11	33.51	99.62	74.00	25.62	peak	Fundamental frequency, no limit
2 *	2439.950	61.05	33.51	94.56	54.00	40.56	AVG	Fundamental frequency, no limit

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Test Mode: TX 2441MHz _CH19_1Mbps

Horizontal



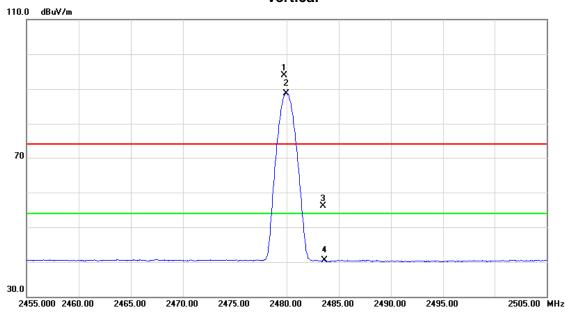
No.	Mk	c. Freq.			Measure- ment		Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.050	34.96	6.57	41.53	74.00	-32.47	peak	
2	*	4880.050	27.15	6.57	33.72	54.00	-20.28	AVG	

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Test Mode: TX 2480MHz _CH39_1Mbps

Vertical



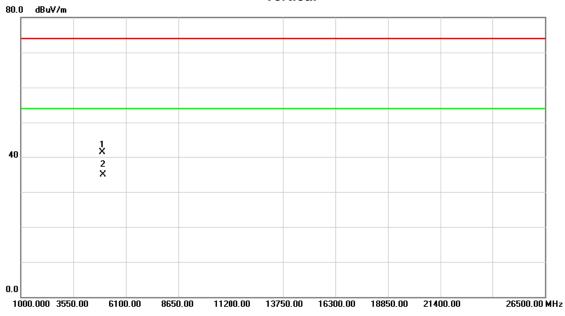
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2479.750	60.27	33.61	93.88	74.00	19.88	peak	Fundamental frequency, no limit
2	*	2479.950	55.13	33.61	88.74	54.00	34.74	AVG	Fundamental frequency, no limit
3		2483.500	22.58	33.62	56.20	74.00	-17.80	peak	
4		2483.500	6.80	33.62	40.42	54.00	-13.58	AVG	

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Test Mode: TX 2480MHz _CH39_1Mbps

Vertical

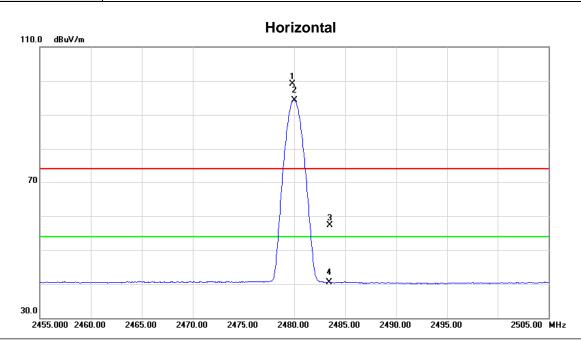


No.	Mk	. Freq.			Measure- ment		Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.110	34.52	6.74	41.26	74.00	-32.74	peak	
2	*	4960.110	28.13	6.74	34.87	54.00	-19.13	AVG	

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Test Mode: TX 2480MHz _CH39_1Mbps



	No. M	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 X	24	79.850	65.59	33.61	99.20	74.00	25.20	peak	Fundamental frequency, no limit
	2 *	24	000.084	60.76	33.61	94.37	54.00	40.37	AVG	Fundamental frequency, no limit
	3	24	183.500	23.66	33.62	57.28	74.00	-16.72	peak	
	4	24	183.500	6.87	33.62	40.49	54.00	-13.51	AVG	
_										

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Test Mode: TX 2480MHz _CH39_1Mbps

Horizontal



No	. M	1k.	Freq.	Reading Level		Measure- ment		Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		49	960.020	34.62	6.74	41.36	74.00	-32.64	peak	
2	*	49	960.020	26.57	6.74	33.31	54.00	-20.69	AVG	

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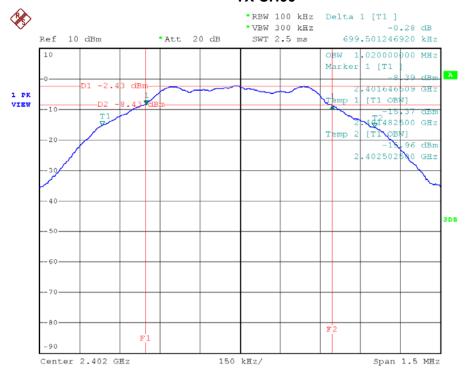
ATTACHMENT E - BANDWIDTH

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CH00, CH19, CH39 - 1Mbps									
Test Channel	Frequency	6dB Bandwidth	99% OBW	LIMIT (KHz)					
103t Orialine	(MHz)	(MHz)	(MHz)						
CH00	2402	0.70	1.02	>=500KHz					
CH19	2440	0.70	1.02	>=500KHz					
CH39	2480	0.69	1.02	>=500KHz					

TX CH00

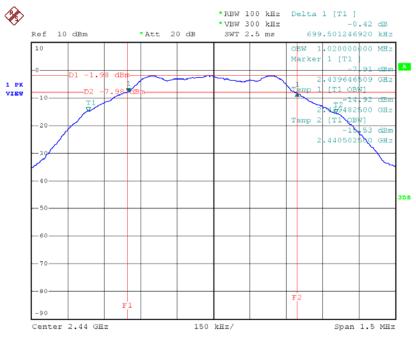


Date: 29.JUN.2014 18:42:16

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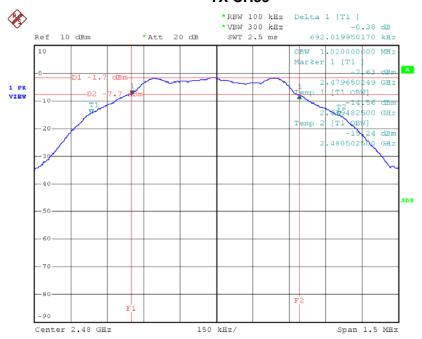


TX CH19



Date: 29.JUN.2014 18:45:34

TX CH39



Date: 29.JUN.2014 18:47:08



ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

	Test Mode : CH00, CH19, CH39 - 1Mbps										
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)							
CH00	2402	0.94	30	1							
CH19	2440	1.11	30	1							
CH39	2480	1.43	30	1							

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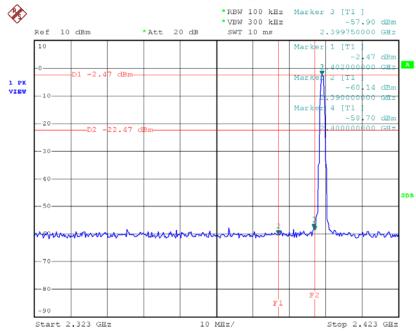
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

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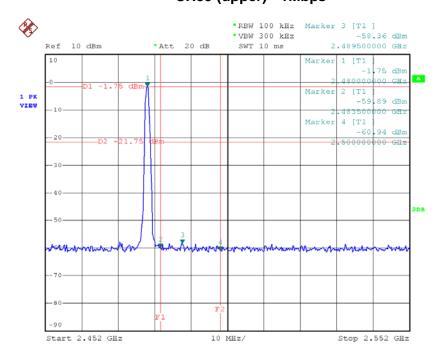
Test Mode: CH00, CH19, CH39 - 1Mbps

CH00 (Lower) - 1Mbps



Date: 29.JUN.2014 18:42:39

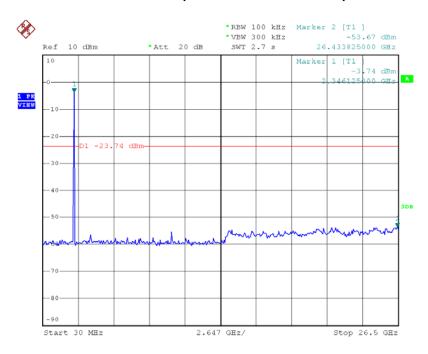
CH39 (upper) - 1Mbps



Date: 29.JUN.2014 18:47:33

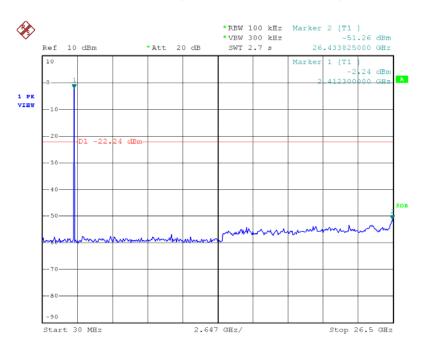


CH00 (1GHz to 10th Harmonic)



Date: 3.JUL.2014 15:10:08

CH19 (1GHz to 10th Harmonic)

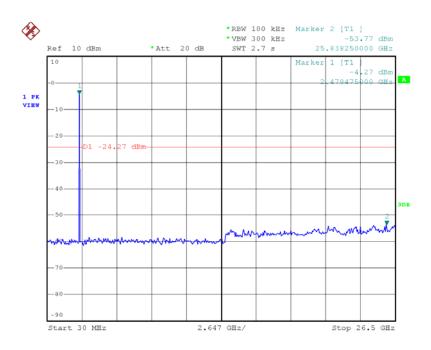


Date: 29.JUN.2014 18:45:16

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CH39 (1GHz to 10th Harmonic)



Date: 29.JUN.2014 18:46:48

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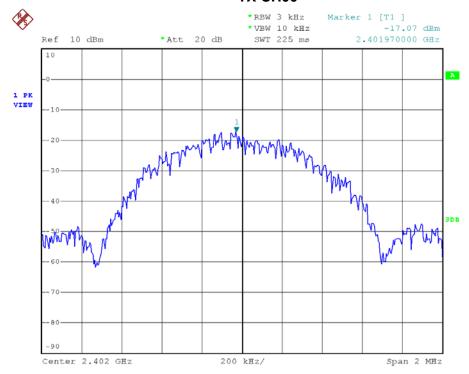
ATTACHMENT H - POWER SPECTRAL DENSITY TEST

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Test Mode : CH00, CH19, CH39 -1Mbps									
Test Channel	Frequency	Power Density	LIMIT						
rest Orialinei	(MHz)	(dBm)	(dBm)						
CH00	2402	-17.07	8						
CH19	2440	-16.57	8						
CH39	2480	-16.30	8						

TX CH00

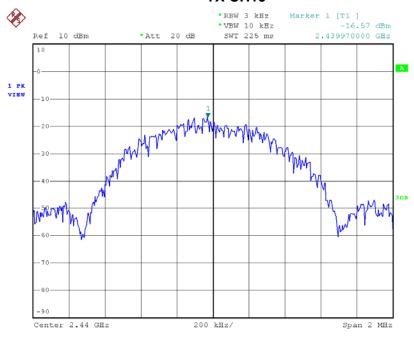


Date: 29.JUN.2014 18:43:01

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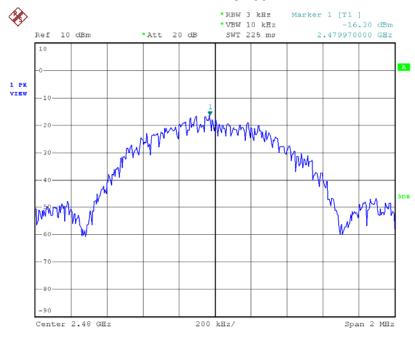


TX CH19



Date: 29.JUN.2014 18:46:00

TX CH39



Date: 29.JUN.2014 18:47:45