



FCC Radio Test Report

FCC ID: 2AJZR-T606B00

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

Project No. : 1607235

Equipment: Premium Docking Station

Model Name : iSAPPOS 12B

Applicant: iSAPPOS Systems Company Limited

Address: Rm 08, 5/F., Block B, Hoplite Industrial Centre, No. 3

-5 Wang Tai Road, Kowloon Bay, Hong Kong SAR

Date of Receipt : Jul. 26, 2016

Date of Test : Jul. 26, 2016 ~ Aug. 29, 2016

Issued Date : Aug. 30, 2016 Tested by : BTL Inc.

Testing Engineer : Kush

(Rush Kao)

Technical Manager

Authorized Signatory

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1607235	Original Issue.	Aug. 30, 2016

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1. CERTIFICATION

Equipment : Premium Docking Station

Brand Name : N/A

Model Name : iSAPPOS 12B

Applicant : iSAPPOS Systems Company Limited Manufacturer : iSAPPOS Systems Company Limited

Address : Rm 08, 5/F., Block B, Hoplite Industrial Centre, No. 3 – 5 Wang Tai Road,

Kowloon Bay, Hong Kong SAR

Factory: FLYTECH TECHNOLOGY CO., LTD.

Address : No.36, Huaya 3rd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Date of Test : Jul. 19, 2016 ~ Aug. 29, 2016

Test Sample : Engineering Sample

Standard(s) : FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

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. BTL-FCCP-2-1607235) 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,				
Standard(s) Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(d)	Antenna conducted Spurious Emission	PASS		
15.247(a)(2)	6dB Bandwidth	PASS		
15.247(b)(3)	Peak Output Power	PASS		
15.247(e)	Power Spectral Density	PASS		
15.203	Antenna Requirement	PASS		
15.247(d)/15.209/15.205	Transmitter Radiated Emissions	PASS		

NOTE:

- (1)" N/A" denotes test is not applicable to this device.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r05 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:949005; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088) No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088) No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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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 BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
C05	CISPR	150 kHz~30MHz	2.04

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
CB11	CISPR	9kHz ~ 150kHz	4.00
(3m)	CISER	150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		30 MHz ~ 200 MHz	V	3.06
CB11	CISPR	30 MHz ~ 200 MHz	Н	2.58
(3m)	CISER	200 MHz ~ 1, 000 MHz	V	3.50
		200 MHz ~ 1, 000 MHz	Н	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11	CISPR	1GHz ~ 6GHz	V	4.14
(3m)	CISPR	1GHz ~ 6GHz	Н	4.14

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11	CISPR	6GHz ~ 18GHz	V	5.34
(1m)	CISPR	6GHz ~ 18GHz	Н	5.34

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Premium Docking Station		
Brand Name	N/A		
Model Name	iSAPPOS 12B		
Model Difference	N/A		
Power Source	DC voltage supplied fron	n AC/DC adapter.	
Power Rating	I/P:100-240V~ 1.0A 50-60Hz O/P: DC 5V=-4A		
Products Covered	1 * Panel: 12.9" 1 * RF Module: TEXAS INSTRUMENTS / CC2541 1 * AC/DC Adapter: EDAC / EA1024CR-050		
	Operation Frequency	2402~2480 MHz	
Product Description	Modulation Technology	GFSK(1Mbps)	
Troduct Bosonption	Bit Rate of Transmitter	Ci Cit(ittisps)	
	Output Power (Max.)	0.17dBm (1Mbps)	

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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Brito TECHNOLOGY 的陽科技有限公司	WLAN Embedded Antenna	Dipole	I-PEX	2.46

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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	Bluetooth

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

For Conducted Test		
i di Colludcied l'est		
Final Test Mode Description		
Mode 2	Bluetooth	

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.

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 bluetooth LE.

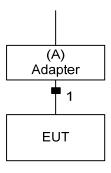
Test Software Version	SmartRF Studio7		
Frequency (MHz)	2402	2440	2480
BT LE	9	9	9

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Ferrite core

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	Series No.
Α	Adapter	EDAC	EA1024CR-050	DOC	87DW45D04L7

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	YES	1.8m	Power Cable

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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 of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.	66 to 56*	56 to 46*	
0 50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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 equipment 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

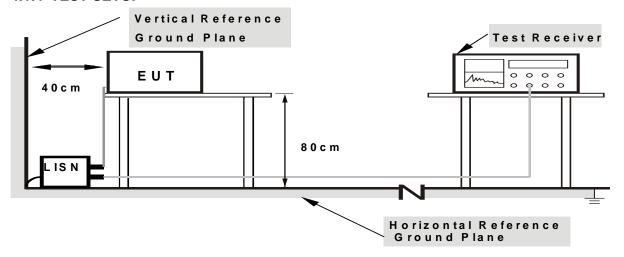
No deviation

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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 function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/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 <code>『Note』</code>. 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 to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (Wiriz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value	
(Emission in restricted band)	RMS detector for AV value	

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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 measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter 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 measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-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 or 1.5 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. 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. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

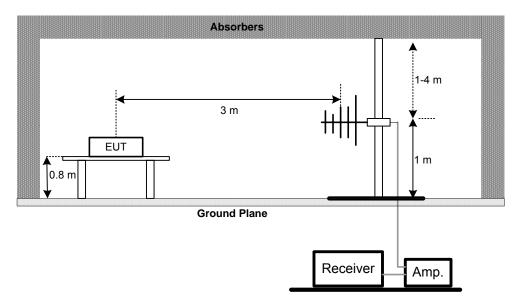
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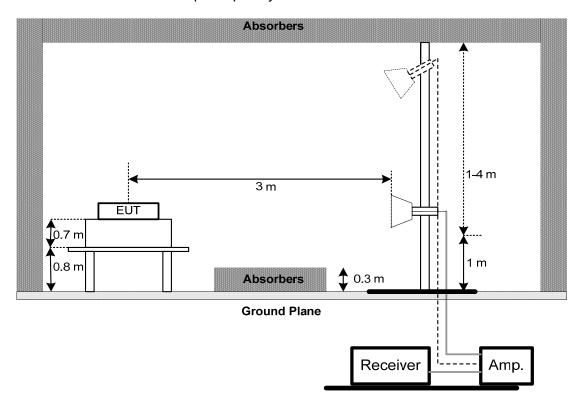


4.2.4 TEST SETUP

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



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

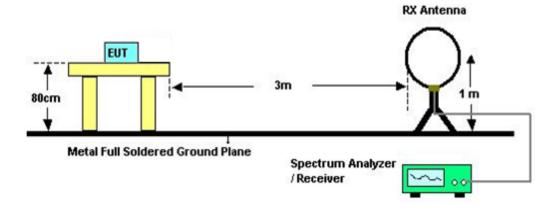


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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5** 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: 45% Test Voltage: AC 120V/60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

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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4.2.8TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

Remark:

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz.
- (3) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) 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.
- (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
- (6) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz)					
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS	

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 4.1.5 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: 60% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Result					
15.247(b)(3)	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 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Ower weter

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 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: 60% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that transmitter demonstrates compliance with the peak conducted power limits.

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.
- c. Offset=antenna gain+ cable loss

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 4.1.5 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: 60%

Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	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 4.1.5 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: 60% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017		
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 13, 2017		
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2016		
4	Power Dividers	HP	11636A	8103	May 03, 2017		
5	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Log-Bicon Antenna	Schwarzbeck	VULB9168-35 2	9168-352	Jul. 29, 2017		
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 19, 2017		
3	Horn Antenna	Schwarzbeck	BBHA 9120	9120D-1333	May 19, 2017		
4	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 15, 2017		
5	Pre-Amplifier	Agilent	8449B	3008A01714	Apr. 13, 2017		
6	Test Cable	LMR	LMR-400	01(10M)	May 11, 2017		
7	Test Cable	LMR	LMR-400	01(3M)	May 11, 2017		
8	Test Cable	Harbour industries	27478LL142	1M	May 12, 2017		
9	Test Cable	Harbour industries	27478LL142	3M	May 12, 2017		
10	Test Cable	AISI	S104-SMAP-1	8M	May 12, 2017		
11	Spectrum Analyzer	Agilent	N9020A	MY51160196	Aug. 01, 2017		
12	EMI Test Receiver	R&S	ESCI	100080	May 12, 2017		
13	Measurement Software	Farad	EZ_EMC (Version NB-03A)	N/A	N/A		

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6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	Aug. 25, 2017

	Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Power Meter	Anritsu	ML2487A	6K00004714	May 18, 2017	
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2017	

	Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	Aug. 25, 2017	

Power Spectral Density Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	Aug. 25, 2017				

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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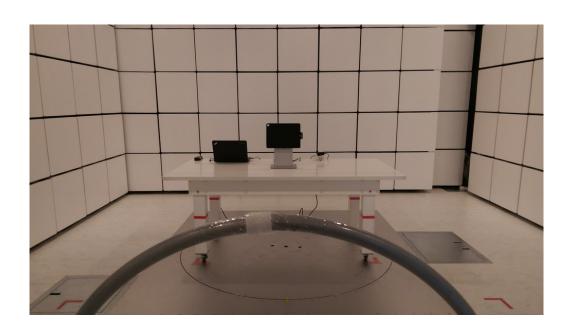




Radiated Measurement Photos

9KHz to 30MHz





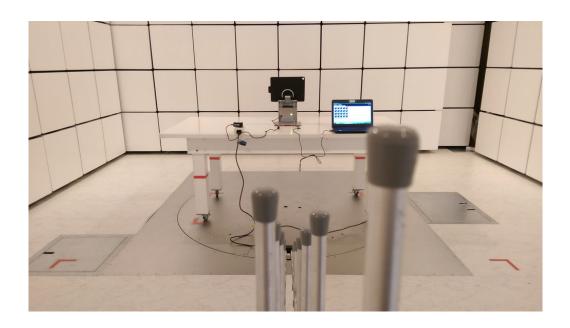
Report No.: BTL-FCCP-2-1607235

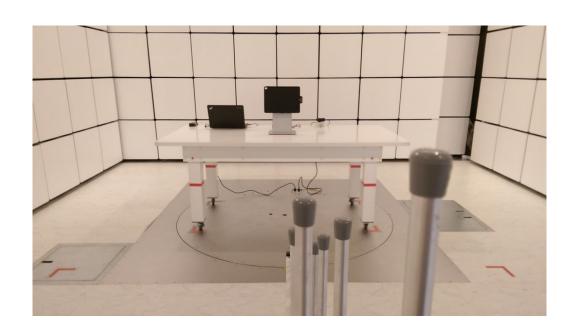




Radiated Measurement Photos

30MHz to 1000MHz





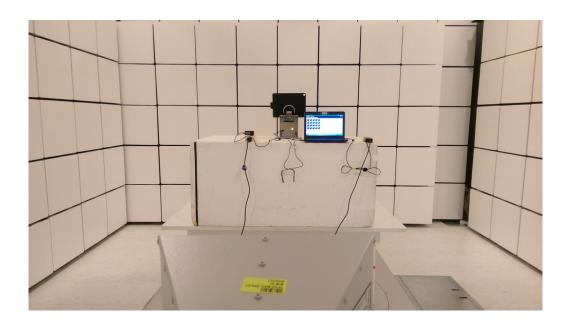
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Radiated Measurement Photos

Above 1000MHz





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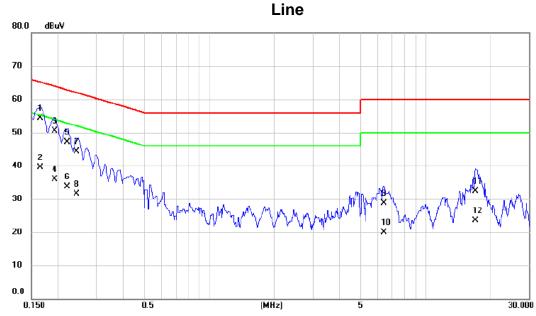
ATTACHMENT A - CONDUCTED EMISSION	

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Test Mode: Bluetooth



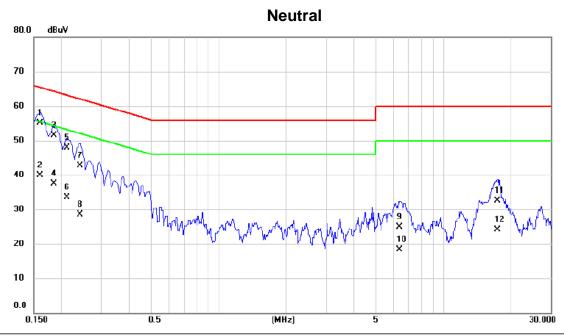
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1654	44.60	9.66	54.26	65.19	-10.93	QP	
2	0.1654	29.80	9.66	39.46	55.19	-15.73	AVG	
3	0.1927	40.80	9.66	50.46	63.92	-13.46	QP	
4	0.1927	26.30	9.66	35.96	53.92	-17.96	AVG	
5	0.2200	37.50	9.66	47.16	62.82	-15.66	QP	
6	0.2200	24.00	9.66	33.66	52.82	-19.16	AVG	
7	0.2431	34.60	9.66	44.26	61.99	-17.73	QP	
8	0.2431	21.90	9.66	31.56	51.99	-20.43	AVG	
9	6.4000	18.90	9.82	28.72	60.00	-31.28	QP	
10	6.4000	10.10	9.82	19.92	50.00	-30.08	AVG	
11	17.0000	22.30	9.95	32.25	60.00	-27.75	QP	
12	17.0000	13.50	9.95	23.45	50.00	-26.55	AVG	

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Test Mode: Bluetooth



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1604	45.40	9.67	55.07	65.44	-10.37	QP	
2		0.1604	30.30	9.67	39.97	55.44	-15.47	AVG	
3		0.1843	41.80	9.66	51.46	64.29	-12.83	QP	
4		0.1843	27.80	9.66	37.46	54.29	-16.83	AVG	
5		0.2116	38.20	9.66	47.86	63.14	-15.28	QP	
6		0.2116	23.90	9.66	33.56	53.14	-19.58	AVG	
7		0.2410	33.00	9.66	42.66	62.06	-19.40	QP	
8		0.2410	18.90	9.66	28.56	52.06	-23.50	AVG	
9		6.3500	15.10	9.82	24.92	60.00	-35.08	QP	
10		6.3500	8.40	9.82	18.22	50.00	-31.78	AVG	
11		17.4000	22.60	9.95	32.55	60.00	-27.45	QP	
12		17.4000	14.20	9.95	24.15	50.00	-25.85	AVG	

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

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Test Mode: TX Mode



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0280	43.17	15.55	58.72	127.15	-68.43	peak	

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Test Mode: TX Mode



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.6572	33.42	11.86	45.28	72.31	-27.03	peak	
2	2.1200	23.06	11.50	34.56	69.54	-34.98	peak	
3	3.5825	18.91	11.19	30.10	69.54	-39.44	peak	
4	4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
5	6.6272	15.26	11.37	26.63	69.54	-42.91	peak	
6	7.9706	13.82	11.34	25.16	69.54	-44.38	peak	

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Test Mode: TX Mode



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.9261	31.48	11.97	43.45	69.91	-26.46	peak	
2	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
3	5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
4	8.4780	13.54	11.33	24.87	69.54	-44.67	peak	
5	9.5228	13.44	11.31	24.75	69.54	-44.79	peak	
6	12.1493	12.61	11.24	23.85	69.54	-45.69	peak	

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ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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Test Mode: TX Mode

Vertical 80.0 dBuV/m 70 60 50 40 X 30 **4** 6 X 5 X 20 10 224.00 612.00 709.00 806.00 1000.00 MHz 127.00 321.00 418.00 515.00

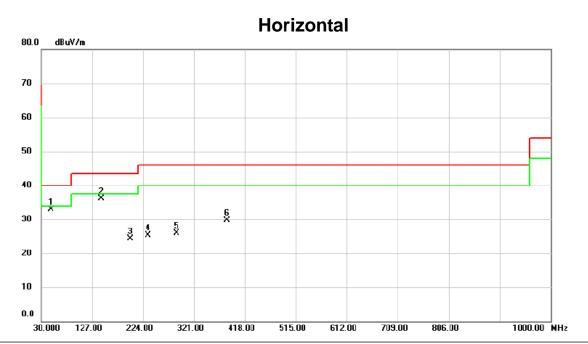
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	48.4300	44.36	-8.25	36.11	40.00	-3.89	peak	
2		130.8800	36.91	-9.48	27.43	43.50	-16.07	peak	
3		144.4600	40.68	-8.69	31.99	43.50	-11.51	peak	
4		199.7500	37.81	-10.80	27.01	43.50	-16.49	peak	
5		298.6900	31.62	-7.51	24.11	46.00	-21.89	peak	
6		384.0500	31.64	-5.25	26.39	46.00	-19.61	peak	

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Test Mode: TX Mode



ı	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	48.4300	41.23	-8.25	32.98	40.00	-7.02	peak	
	2		144.4600	44.70	-8.69	36.01	43.50	-7.49	peak	
	3		199.7500	35.09	-10.80	24.29	43.50	-19.21	peak	
	4		233.7000	35.24	-9.88	25.36	46.00	-20.64	peak	
	5		288.0200	33.62	-7.69	25.93	46.00	-20.07	peak	
	6		384.0500	34.95	-5.25	29.70	46.00	-16.30	peak	

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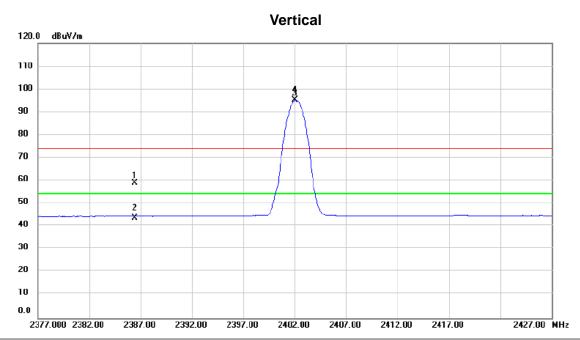


ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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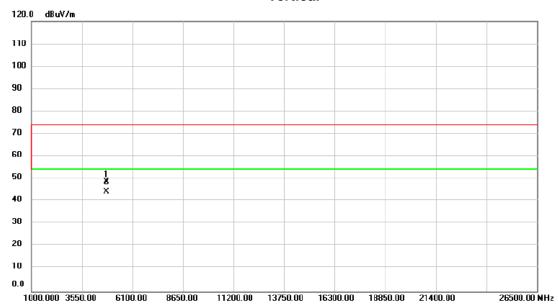
No	. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	ı	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2386.450	27.14	31.69	58.83	74.00	-15.17	peak	
2		2386.450	12.00	31.69	43.69	54.00	-10.31	AVG	
3	X	2402.000	63.49	31.76	95.25	74.00	21.25	peak	No Limit
4	*	2402.000	63.43	31.76	95.19	54.00	41.19	AVG	No Limit

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Vertical



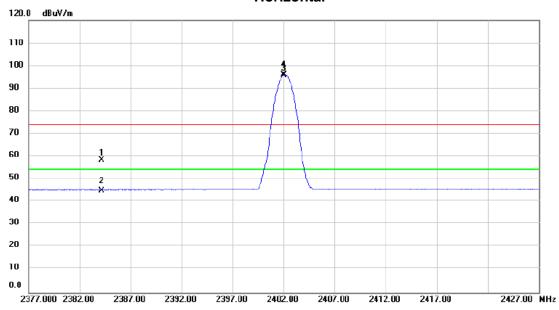
No.	N	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4	804.000	59.38	-10.51	48.87	74.00	-25.13	peak	
2	*	48	804.000	54.78	-10.51	44.27	54.00	-9.73	AVG	

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Horizontal



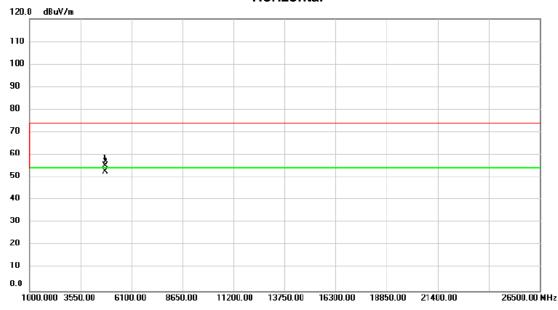
	No. Mk. Freq.		Reading Correct Measure- q. Level Factor ment Lin		Limit	t Margin				
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1		2384.200	26.57	31.69	58.26	74.00	-15.74	peak	
Ī	2		2384.200	13.02	31.69	44.71	54.00	-9.29	AVG	
Ī	3	X	2402.000	64.10	31.76	95.86	74.00	21.86	peak	No Limit
	4	*	2402.000	64.25	31.76	96.01	54.00	42.01	AVG	No Limit

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Horizontal

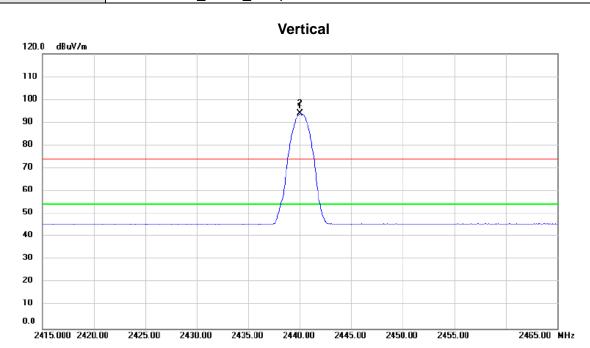


No.	M	k. Freq			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.00	0 65.78	-10.51	55.27	74.00	-18.73	peak	
2	*	4804.00	0 63.29	-10.51	52.78	54.00	-1.22	AVG	

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No.	Mk	. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2440.000	62.12	31.90	94.02	74.00	20.02	peak	No Limit
2	*	2440.000	62.02	31.90	93.92	54.00	39.92	AVG	No Limit

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120.0 dBuV/m

110



Orthogonal Axis: X
Test Mode: TX 2440MHz _CH19_1Mbps

Vertical



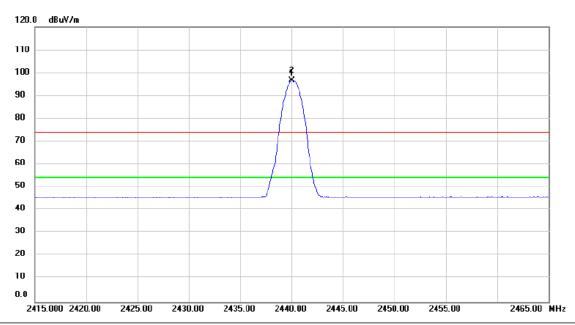
No.	Mk.	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	60.55	-10.39	50.16	74.00	-23.84	peak	
2	*	4880.000	55.99	-10.39	45.60	54.00	-8.40	AVG	

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Horizontal



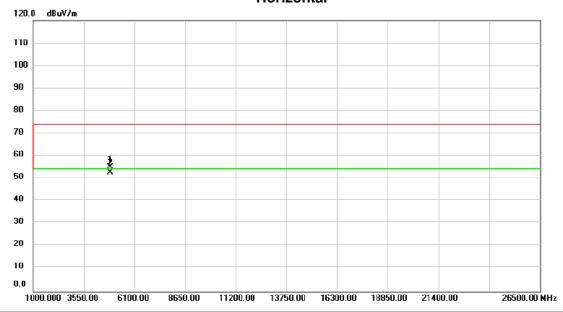
	No.	Mk	c. Freq.		Correct Factor	Measure- ment	Limit	Margin			
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
_	1	X	2440.000	64.89	31.90	96.79	74.00	22.79	peak	No Limit	
_	2	*	2440.000	64.82	31.90	96.72	54.00	42.72	AVG	No Limit	

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Horizontal

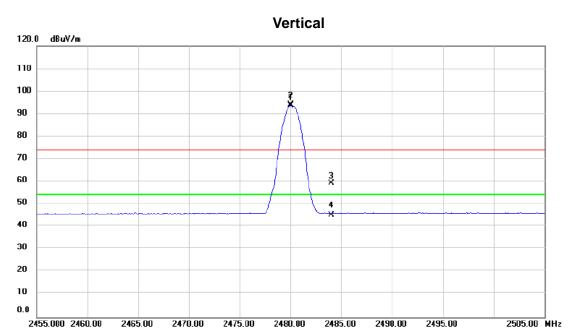


No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	65.33	-10.39	54.94	74.00	-19.06	peak	
2	*	4880.000	62.98	-10.39	52.59	54.00	-1.41	AVG	

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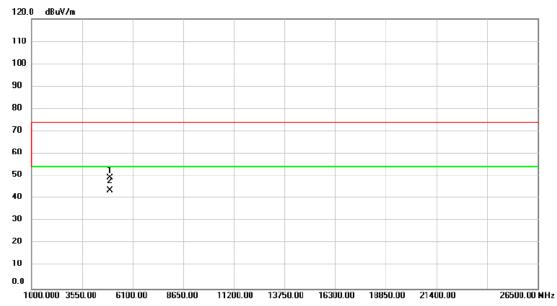
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2480.000	61.96	32.05	94.01	74.00	20.01	peak	No Limit
2	*	2480.000	61.84	32.05	93.89	54.00	39.89	AVG	No Limit
3		2484.059	27.22	32.07	59.29	74.00	-14.71	peak	
4		2484.059	13.23	32.07	45.30	54.00	-8.70	AVG	

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Vertical



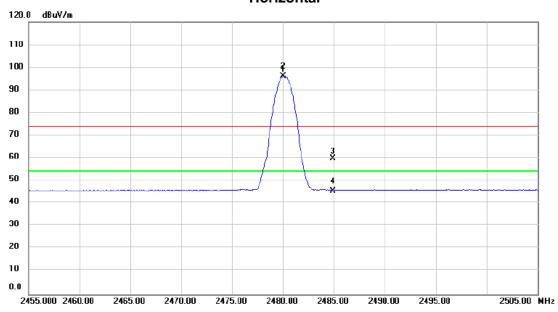
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	ı	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	49	960.000	59.61	-10.26	49.35	74.00	-24.65	peak	
2	* 49	960.000	54.06	-10.26	43.80	54.00	-10.20	AVG	

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Horizontal



No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2480.000	64.25	32.05	96.30	74.00	22.30	peak	No Limit
2	*	2480.000	64.14	32.05	96.19	54.00	42.19	AVG	No Limit
3		2484.919	27.67	32.07	59.74	74.00	-14.26	peak	
4		2484.919	13.33	32.07	45.40	54.00	-8.60	AVG	

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Horizontal



No.	Mk	c. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	65.11	-10.26	54.85	74.00	-19.15	peak	
2	*	4960.000	62.04	-10.26	51.78	54.00	-2.22	AVG	

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		1
	ATTACHMENT E - BANDWIDTH	
I		

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Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.677	1.071	500	Complies
2440	0.669	1.074	500	Complies
2480	0.680	1.068	500	Complies

TX CH00



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TX CH19



TX CH39



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ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	0.17	0.0010	30.00	1.00	Complies
2440	-0.41	0.0009	30.00	1.00	Complies
2480	-0.75	0.0008	30.00	1.00	Complies

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

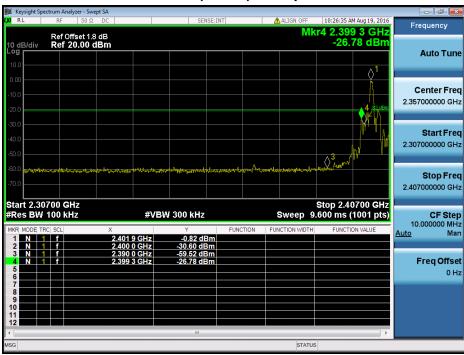
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Test Mode: CH00, CH19, CH39 - 1Mbps

CH00 (Lower) - 1Mbps



CH39 (upper) - 1Mbps



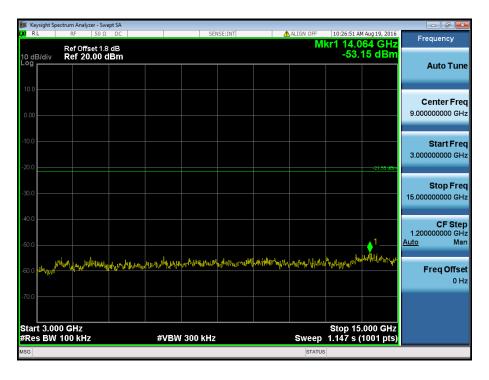
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CH00 (10 Harmonic of the frequency)





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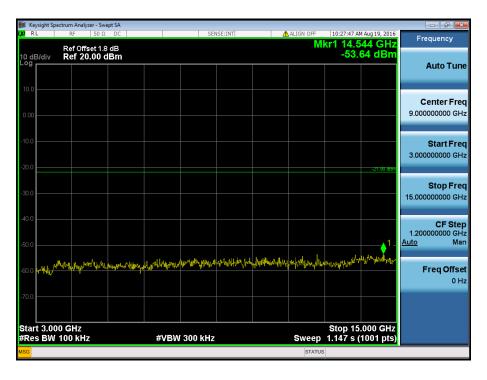
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CH19 (10 Harmonic of the frequency)

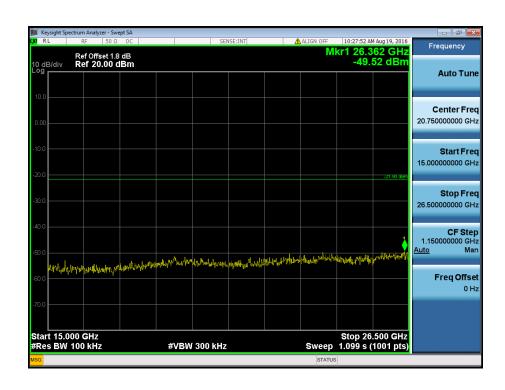




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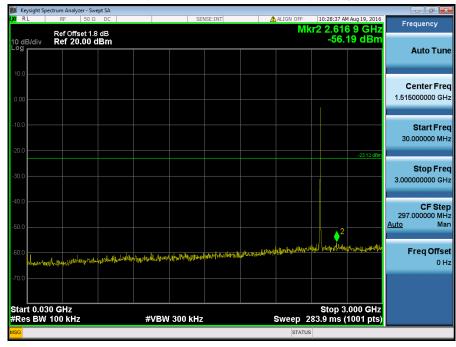


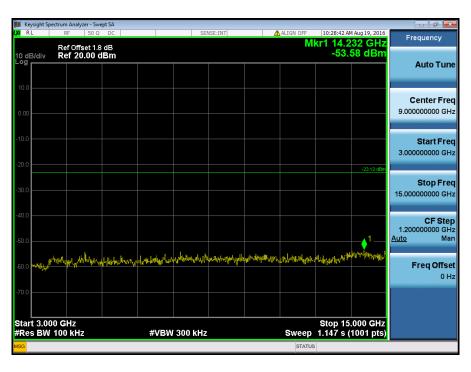
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CH39 (10 Harmonic of the frequency)

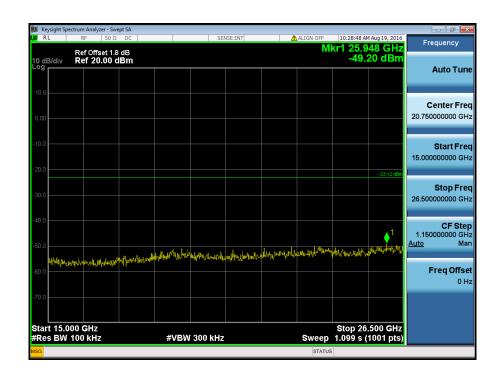




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ATTACHMENT H - POWER SPECTRAL DENSITY TEST

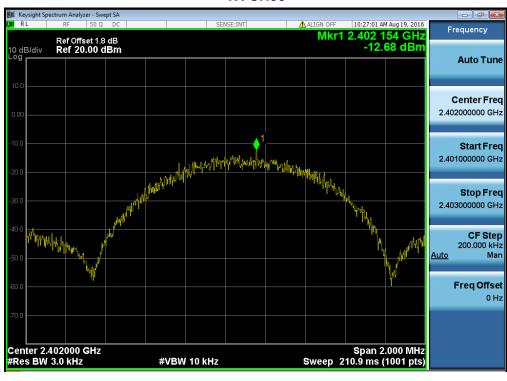
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Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	-12.68	8	Complies
2440	-14.86	8	Complies
2480	-15.19	8	Complies

TX CH00

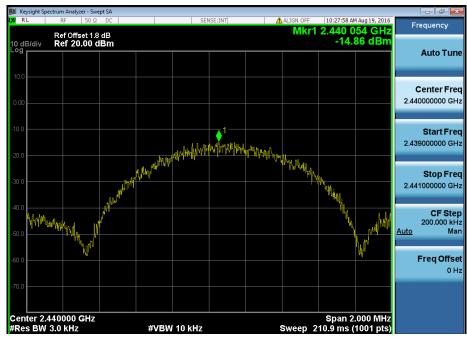


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TX CH19



TX CH39



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