



FCC Radio Test Report

FCC ID: 2AJZR-T606C00

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

Project No. : 1607236

Equipment: Premium Docking Station

Model Name : iSAPPOS 12C

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 Ka

(Rush Kao)

Technical Manager

Authorized Signatory

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Report No.: BTL-FCCP-2-1607236 Page 1 of 68





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Report No.: BTL-FCCP-2-1607236 Page 2 of 68





Table of Contents	Page
1. CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TE	STED 12
3.5 DESCRIPTION OF SUPPORT UNITS	12
4 . EMC EMISSION TEST	13
4.1 CONDUCTED EMISSION MEASUREMENT	13
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS 4.1.2 TEST PROCEDURE	13 13
4.1.3 DEVIATION FROM TEST STANDARD	13
4.1.4 TEST SETUP	14
4.1.5 EUT OPERATING CONDITIONS	14
4.1.6 EUT TEST CONDITIONS 4.1.7 TEST RESULTS	14 14
4.2 RADIATED EMISSION MEASUREMENT	15
4.2.1 RADIATED EMISSION LIMITS	15
4.2.2 TEST PROCEDURE	16
4.2.3 DEVIATION FROM TEST STANDARD 4.2.4 TEST SETUP	16 17
4.2.5 EUT OPERATING CONDITIONS	18
4.2.6 EUT TEST CONDITIONS	18
4.2.7 TEST RESULTS (9KHZ TO 30MHZ) 4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	18 19
4.2.9 TEST RESULTS (30MHZ TO 1000 MHZ)	19
5 . BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES / LIMIT	20
5.1.1 TEST PROCEDURE	20
5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP	20 20
5.1.4 EUT OPERATION CONDITIONS	20 20
5.1.5 EUT TEST CONDITIONS	20
5.1.6 TEST RESULTS	20

Report No.: BTL-FCCP-2-1607236





Table of Contents	Page
6 . MAXIMUM OUTPUT POWER TEST	21
6.1 APPLIED PROCEDURES / LIMIT	21
6.1.1 TEST PROCEDURE	21
6.1.2 DEVIATION FROM STANDARD	21
6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS	21 21
6.1.5 EUT TEST CONDITIONS	21
6.1.6 TEST RESULTS	21
7. ANTENNA CONDUCTED SPURIOUS EMISSION	22
7.1 APPLIED PROCEDURES / LIMIT	22
7.1.1 TEST PROCEDURE	22 22
7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP	22
7.1.4 EUT OPERATION CONDITIONS	22
7.1.5 EUT OPERATION CONDITIONS	22
7.1.6 TEST RESULTS	22
8 . POWER SPECTRAL DENSITY TEST	23
8.1 APPLIED PROCEDURES / LIMIT	23
8.1.1 TEST PROCEDURE 8.1.2 DEVIATION FROM STANDARD	23 23
8.1.3 TEST SETUP	23
8.1.4 EUT OPERATION CONDITIONS	23
8.1.5 EUT TEST CONDITIONS	23
8.1.6 TEST RESULTS	23
9 . MEASUREMENT INSTRUMENTS LIST	24
10 . EUT TEST PHOTO	26
ATTACHMENT A - CONDUCTED EMISSION	30
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	33
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	38
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	41
ATTACHMENT E - BANDWIDTH	54
ATTACHMENT F - MAXIMUM OUTPUT POWER TEST	57
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	58
ATTACHMENT H - POWER SPECTRAL DENSITY TEST	66

Report No.: BTL-FCCP-2-1607236 Page 4 of 68





REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1607236	Original Issue.	Aug. 30, 2016

Report No.: BTL-FCCP-2-1607236 Page 5 of 68





1. CERTIFICATION

Equipment : Premium Docking Station

Brand Name : N/A

Model Name : iSAPPOS 12C

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-2-1607236) 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).

Report No.: BTL-FCCP-2-1607236 Page 6 of 68





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			
15.209/15.205	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

Report No.: BTL-FCCP-2-1607236 Page 7 of 68





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)		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)	CISER	1GHz ~ 6GHz	Н	4.14

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11	CICDD	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} .

Report No.: BTL-FCCP-2-1607236 Page 8 of 68





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Premium Docking Station		
Brand Name	N/A		
Model Name	iSAPPOS 12C		
Model Difference	N/A		
Power Source	DC voltage supplied fron	n AC/DC adapter.	
Power Rating	I/P:100-240V~ 1.5A 50-6	60Hz O/P: DC 19V=-4.47A	
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)	
r rouget 2 compaier	Bit Rate of Transmitter	S. S. (IIIISPS)	
	Output Power (Max.)	0.31dBm (1Mbps)	

Note:

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

Report No.: BTL-FCCP-2-1607236 Page 9 of 68





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

٠.	lasio for thiody theorina						
	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
	1	Brito	WLAN				
		BRITO TECHNOLOGY 的陽科技有限公司	BRITO TECHNOLOGY	Dipole	I-PEX	2.46	
			Antenna				

Report No.: BTL-FCCP-2-1607236 Page 10 of 68





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 oi conducted rest		
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.

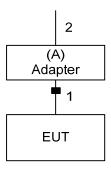
Test Software Version	SmartRF Studio7		
Frequency (MHz)	2402	2440	2480
BT LE	9	9	9

Report No.: BTL-FCCP-2-1607236 Page 11 of 68





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	DELTA	ADP-90MD H	DOC	87DW45D04L7

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

Report No.: BTL-FCCP-2-1607236 Page 12 of 68





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 -0.5	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

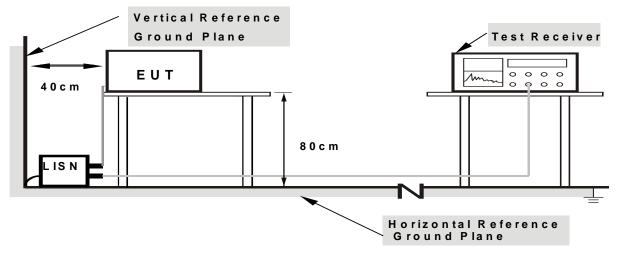
No deviation

Report No.: BTL-FCCP-2-1607236 Page 13 of 68





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.

Report No.: BTL-FCCP-2-1607236 Page 14 of 68





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)	
r requericy (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

Report No.: BTL-FCCP-2-1607236 Page 15 of 68





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

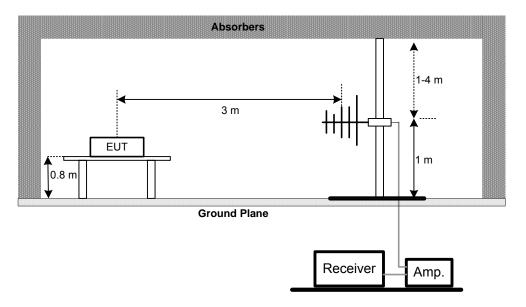
Report No.: BTL-FCCP-2-1607236 Page 16 of 68



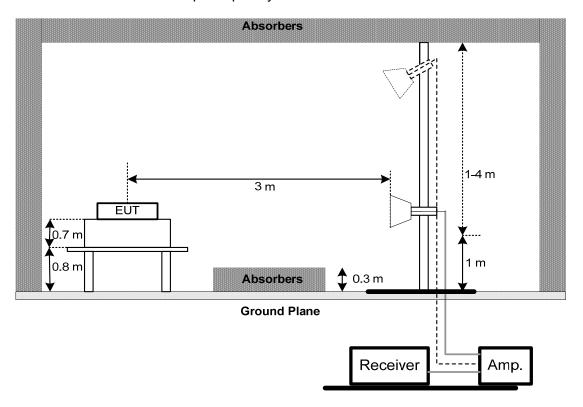


4.2.4 TEST SETUP

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



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

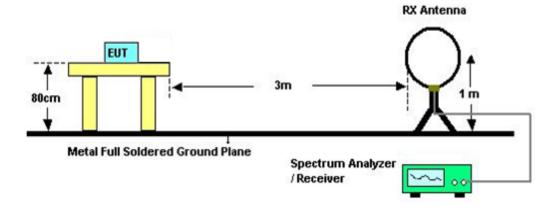


Report No.: BTL-FCCP-2-1607236 Page 17 of 68





(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.

Report No.: BTL-FCCP-2-1607236





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.

Report No.: BTL-FCCP-2-1607236 Page 19 of 68





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.

Report No.: BTL-FCCP-2-1607236 Page 20 of 68





6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Resu					
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 OWEL MELET

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.

Report No.: BTL-FCCP-2-1607236 Page 21 of 68





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.

Report No.: BTL-FCCP-2-1607236 Page 22 of 68





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.

Report No.: BTL-FCCP-2-1607236 Page 23 of 68





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	ЗМ	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		

Report No.: BTL-FCCP-2-1607236 Page 24 of 68





	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.

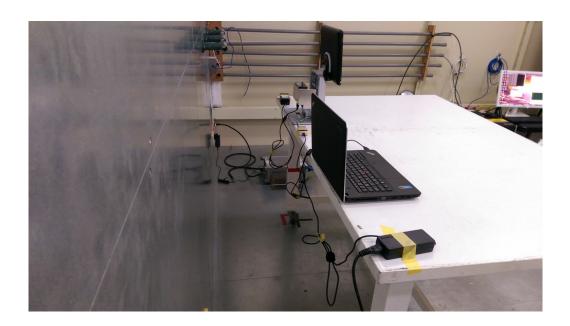
Report No.: BTL-FCCP-2-1607236 Page 25 of 68





10. EUT TEST PHOTO

Conducted Measurement Photos





Report No.: BTL-FCCP-2-1607236 Page 26 of 68

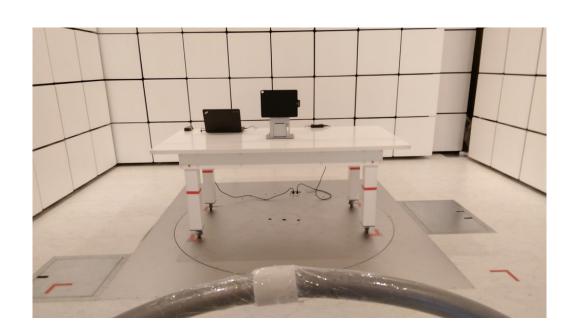




Radiated Measurement Photos

9KHz to 30MHz





Report No.: BTL-FCCP-2-1607236 Page 27 of 68

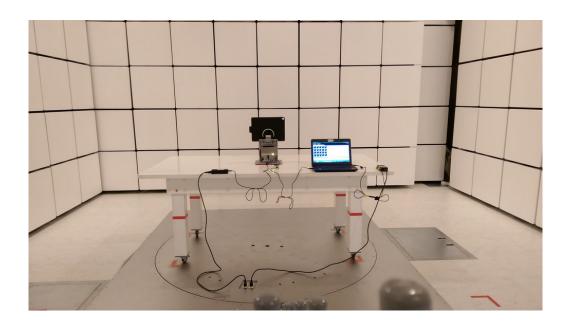


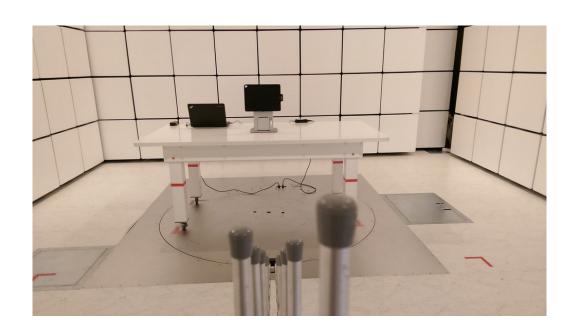


Page 28 of 68

Radiated Measurement Photos

30MHz to 1000MHz





Report No.: BTL-FCCP-2-1607236





Radiated Measurement Photos

Above 1000MHz





Report No.: BTL-FCCP-2-1607236 Page 29 of 68





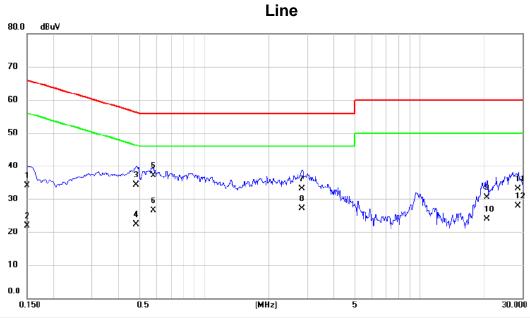
ATTACHMENT A - CONDUCTED EMISSION

Report No.: BTL-FCCP-2-1607236 Page 30 of 68





Test Mode: Bluetooth



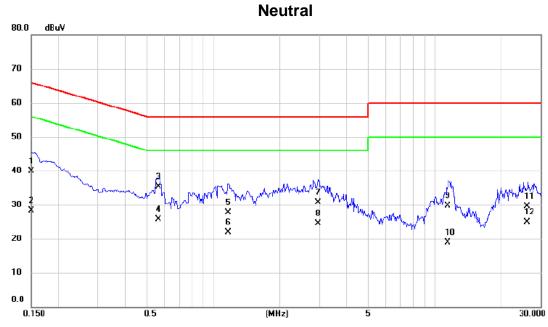
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	24.50	9.66	34.16	66.00	-31.84	QP	
2	0.1500	12.20	9.66	21.86	56.00	-34.14	AVG	
3	0.4846	24.70	9.67	34.37	56.26	-21.89	QP	
4	0.4846	12.70	9.67	22.37	46.26	-23.89	AVG	
5	0.5810	27.40	9.67	37.07	56.00	-18.93	QP	
6	0.5810	16.90	9.67	26.57	46.00	-19.43	AVG	
7	2.8400	23.40	9.76	33.16	56.00	-22.84	QP	
8 *	2.8400	17.40	9.76	27.16	46.00	-18.84	AVG	
9	20.5000	20.50	9.98	30.48	60.00	-29.52	QP	
10	20.5000	14.00	9.98	23.98	50.00	-26.02	AVG	
11	28.7000	23.10	9.97	33.07	60.00	-26.93	QP	
12	28.7000	18.00	9.97	27.97	50.00	-22.03	AVG	

Report No.: BTL-FCCP-2-1607236 Page 31 of 68





Test Mode: Bluetooth



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	30.20	9.67	39.87	66.00	-26.13	QP	
2		0.1500	18.60	9.67	28.27	56.00	-27.73	AVG	
3		0.5630	25.70	9.67	35.37	56.00	-20.63	QP	
4	*	0.5630	16.10	9.67	25.77	46.00	-20.23	AVG	
5		1.1660	18.10	9.69	27.79	56.00	-28.21	QP	
6		1.1660	12.30	9.69	21.99	46.00	-24.01	AVG	
7		2.9570	21.00	9.76	30.76	56.00	-25.24	QP	
8		2.9570	14.80	9.76	24.56	46.00	-21.44	AVG	
9		11.4500	19.90	9.87	29.77	60.00	-30.23	QP	
10		11.4500	9.00	9.87	18.87	50.00	-31.13	AVG	
11		26.2000	19.50	9.99	29.49	60.00	-30.51	QP	
12		26.2000	14.90	9.99	24.89	50.00	-25.11	AVG	

Report No.: BTL-FCCP-2-1607236 Page 32 of 68





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

Report No.: BTL-FCCP-2-1607236 Page 33 of 68



0.0212

45.16

17.42

62.58

127.64

-65.06

peak





Report No.: BTL-FCCP-2-1607236 Page 34 of 68





Test Mode: TX Mode



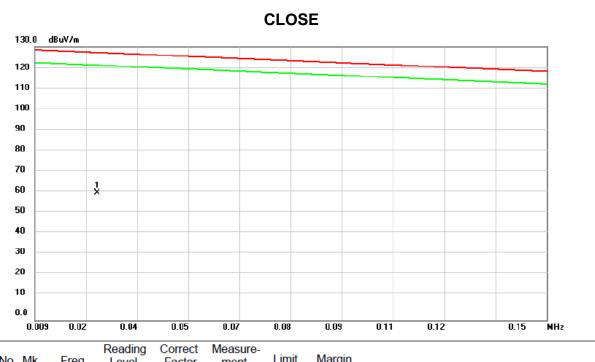
No. M	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3291	40.93	11.80	52.73	105.41	-52.68	peak	
2 *		0.8064	32.31	11.92	44.23	70.98	-26.75	peak	
3		1.4032	26.02	11.82	37.84	65.66	-27.82	peak	
4		1.9708	23.01	11.56	34.57	69.54	-34.97	peak	
5		3.0455	19.49	11.11	30.60	69.54	-38.94	peak	
6		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	

Report No.: BTL-FCCP-2-1607236 Page 35 of 68









No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0262	44.44	16.04	60.48	127.28	-66.80	peak	

Report No.: BTL-FCCP-2-1607236 Page 36 of 68





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	*	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
2		2.8664	21.25	11.16	32.41	69.54	-37.13	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	

Report No.: BTL-FCCP-2-1607236 Page 37 of 68





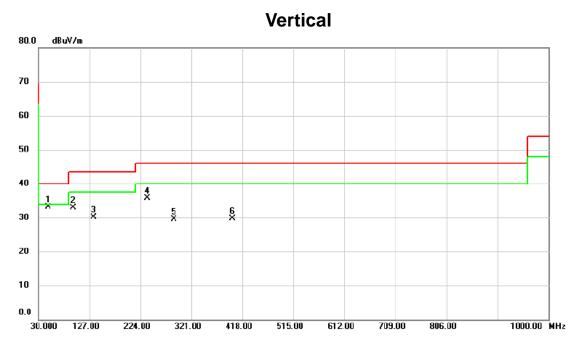
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-2-1607236 Page 38 of 68





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	*	48.4300	41.31	-8.25	33.06	40.00	-6.94	peak	
2		95.9600	46.03	-13.04	32.99	43.50	-10.51	peak	
3		135.7300	39.14	-9.03	30.11	43.50	-13.39	peak	
4		237.5800	45.33	-9.60	35.73	46.00	-10.27	peak	
5		288.0200	37.26	-7.69	29.57	46.00	-16.43	peak	
6		399.5700	34.68	-4.92	29.76	46.00	-16.24	peak	

Report No.: BTL-FCCP-2-1607236 Page 39 of 68





Test Mode: TX Mode

Horizontal 80.0 dBuV/m 70 60 50 40 5 X 30 20 10 806.00 1000.00 MHz 224.00 127.00 321.00 418.00 515.00 612.00 709.00 30.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		48.4300	39.65	-8.25	31.40	40.00	-8.60	peak	
2	*	95.9600	49.15	-13.04	36.11	43.50	-7.39	peak	
3		120.2100	37.46	-10.45	27.01	43.50	-16.49	peak	
4		237.5800	46.61	-9.60	37.01	46.00	-8.99	peak	
5		267.6500	39.13	-8.46	30.67	46.00	-15.33	peak	
6		288.0200	39.85	-7.69	32.16	46.00	-13.84	peak	

Report No.: BTL-FCCP-2-1607236 Page 40 of 68



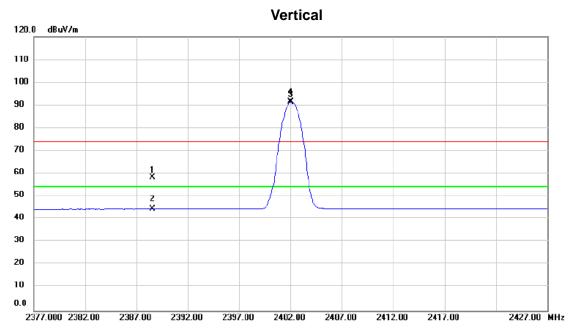


ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-2-1607236 Page 41 of 68





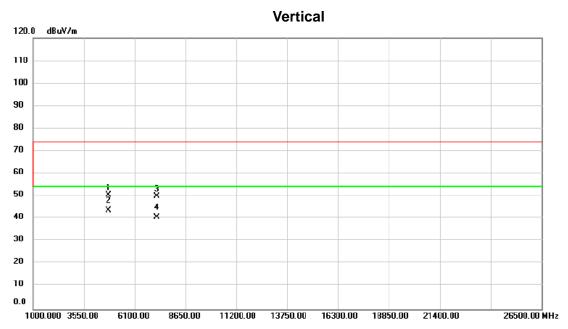


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.550	26.77	31.70	58.47	74.00	-15.53	peak	
2		2388.550	12.76	31.70	44.46	54.00	-9.54	AVG	
3	X	2402.000	59.79	31.76	91.55	74.00	17.55	peak	No Limit
4	*	2402.000	59.66	31.76	91.42	54.00	37.42	AVG	No Limit

Report No.: BTL-FCCP-2-1607236 Page 42 of 68





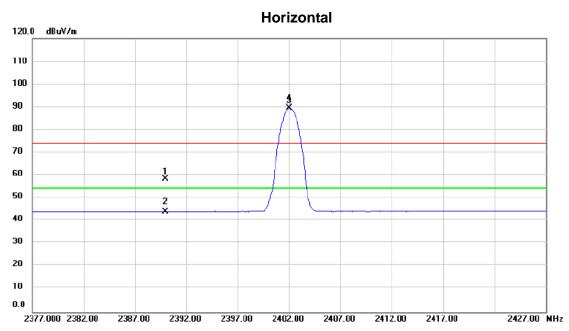


No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	61.07	-10.51	50.56	74.00	-23.44	peak	
2	*	4804.000	54.29	-10.51	43.78	54.00	-10.22	AVG	
3		7206.000	54.16	-4.34	49.82	74.00	-24.18	peak	
4		7206.000	44.91	-4.34	40.57	54.00	-13.43	AVG	

Report No.: BTL-FCCP-2-1607236 Page 43 of 68







No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.950	26.60	31.70	58.30	74.00	-15.70	peak	
2		2389.950	12.30	31.70	44.00	54.00	-10.00	AVG	
3	X	2402.000	57.88	31.76	89.64	74.00	15.64	peak	No Limit
4	*	2402.000	57.72	31.76	89.48	54.00	35.48	AVG	No Limit

Report No.: BTL-FCCP-2-1607236 Page 44 of 68



0.0

1000.000 3550.00

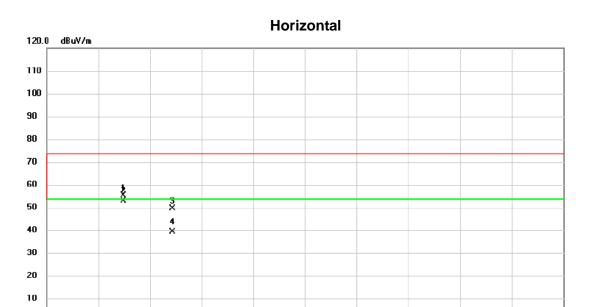
6100.00

8650.00



26500.00 MHz

Orthogonal Axis: X
Test Mode: TX 2402MHz _CH00_1Mbps



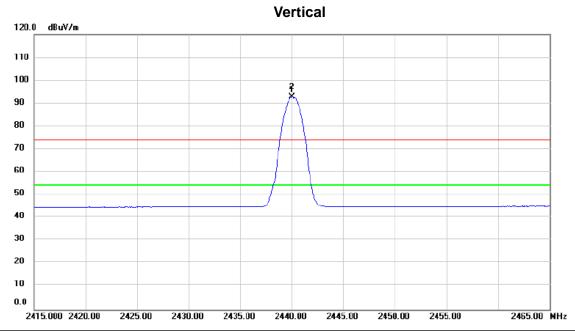
No.	No. Mk. Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	66.33	-10.51	55.82	74.00	-18.18	peak	
2	*	4804.000	64.07	-10.51	53.56	54.00	-0.44	AVG	
3		7206.000	54.59	-4.34	50.25	74.00	-23.75	peak	
4		7206.000	44.40	-4.34	40.06	54.00	-13.94	AVG	

11200.00 13750.00 16300.00 18850.00 21400.00

Report No.: BTL-FCCP-2-1607236 Page 45 of 68







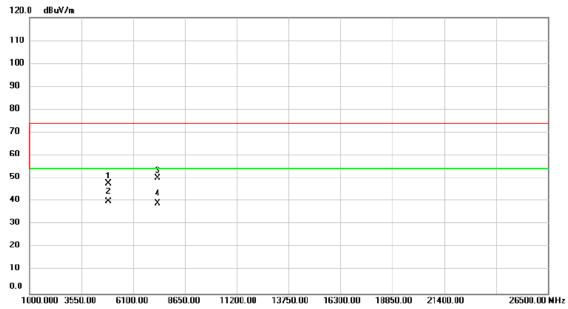
	No.	Mk.	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	2440.000	60.98	31.90	92.88	74.00	18.88	peak	No Limit
Ī	2	*	2440.000	60.92	31.90	92.82	54.00	38.82	AVG	No Limit

Report No.: BTL-FCCP-2-1607236 Page 46 of 68





Vertical



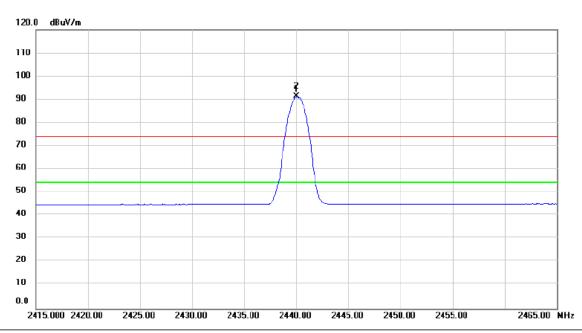
No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	1	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	58.19	-10.39	47.80	74.00	-26.20	peak	
2	*	4880.000	50.36	-10.39	39.97	54.00	-14.03	AVG	
3		7320.000	54.08	-3.90	50.18	74.00	-23.82	peak	
4		7320.000	43.04	-3.90	39.14	54.00	-14.86	AVG	

Report No.: BTL-FCCP-2-1607236 Page 47 of 68





Horizontal



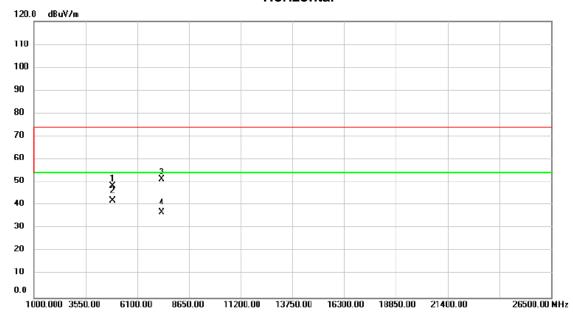
	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	X	2440.000	59.47	31.90	91.37	74.00	17.37	peak	No Limit
-	2	*	2440.000	59.35	31.90	91.25	54.00	37.25	AVG	No Limit

Report No.: BTL-FCCP-2-1607236 Page 48 of 68





Horizontal



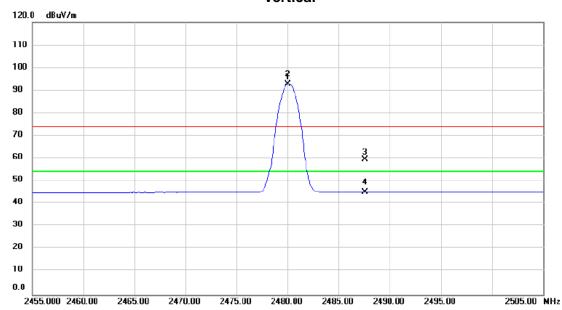
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	58.79	-10.39	48.40	74.00	-25.60	peak	
2	*	4880.000	52.53	-10.39	42.14	54.00	-11.86	AVG	
3		7320.000	55.21	-3.90	51.31	74.00	-22.69	peak	
4		7320.000	41.04	-3.90	37.14	54.00	-16.86	AVG	

Report No.: BTL-FCCP-2-1607236 Page 49 of 68





Vertical



	No. M	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1 X	24	80.000	60.90	32.05	92.95	74.00	18.95	peak	No Limit	
_	2 *	24	80.000	60.81	32.05	92.86	54.00	38.86	AVG	No Limit	
-	3	24	87.550	27.57	32.09	59.66	74.00	-14.34	peak		
-	4	24	87.550	13.16	32.09	45.25	54.00	-8.75	AVG		
_											

Report No.: BTL-FCCP-2-1607236 Page 50 of 68





Vertical



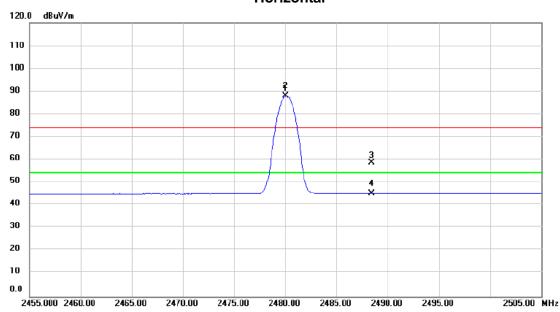
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		4959.730	57.06	-10.26	46.80	74.00	-27.20	peak	
	2		4960.140	47.09	-10.26	36.83	54.00	-17.17	AVG	
	3		7440.000	54.64	-3.45	51.19	74.00	-22.81	peak	
	4	*	7440.000	41.21	-3.45	37.76	54.00	-16.24	AVG	

Report No.: BTL-FCCP-2-1607236 Page 51 of 68





Horizontal

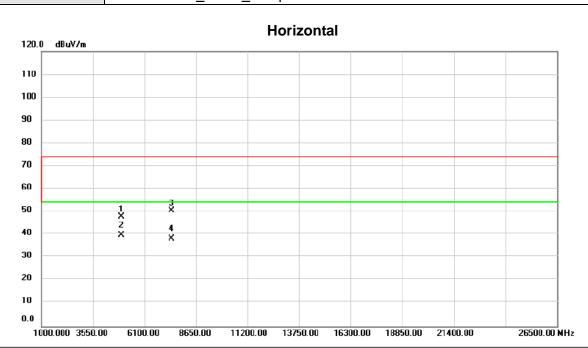


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X 2	480.000	56.03	32.05	88.88	74.00	14.08	peak	No Limit
2 * 2	480.000	55.86	32.05	87.91	54.00	33.91	AVG	No Limit
3 2	488.450	26.61	32.09	58.70	74.00	-15.30	peak	
4 2	488.450	13.14	32.09	45.23	54.00	-8.77	AVG	

Report No.: BTL-FCCP-2-1607236 Page 52 of 68







No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	58.06	-10.26	47.80	74.00	-26.20	peak	
2	*	4960.000	50.09	-10.26	39.83	54.00	-14.17	AVG	
3		7440.000	53.98	-3.45	50.53	74.00	-23.47	peak	
4		7440.000	41.79	-3.45	38.34	54.00	-15.66	AVG	

Report No.: BTL-FCCP-2-1607236 Page 53 of 68





					- 100
	АТТ	ACHMENT I	E - BANDWIC	DТН	
I					

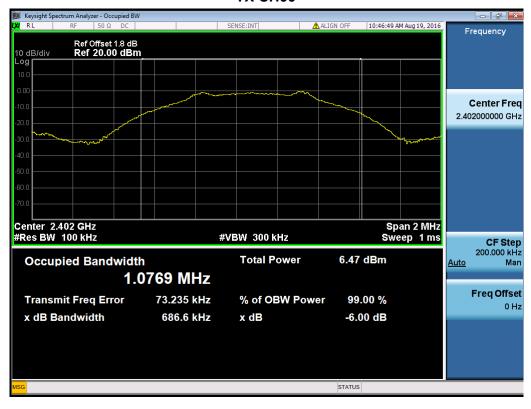
Report No.: BTL-FCCP-2-1607236 Page 54 of 68





Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.687	1.077	500	Complies
2440	0.670	1.073	500	Complies
2480	0.671	1.072	500	Complies

TX CH00



Report No.: BTL-FCCP-2-1607236 Page 55 of 68





TX CH19



TX CH39



Report No.: BTL-FCCP-2-1607236 Page 56 of 68





ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	0.31	0.0011	30.00	1.00	Complies
2440	-0.12	0.0010	30.00	1.00	Complies
2480	-0.27	0.0009	30.00	1.00	Complies

Report No.: BTL-FCCP-2-1607236 Page 57 of 68





ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

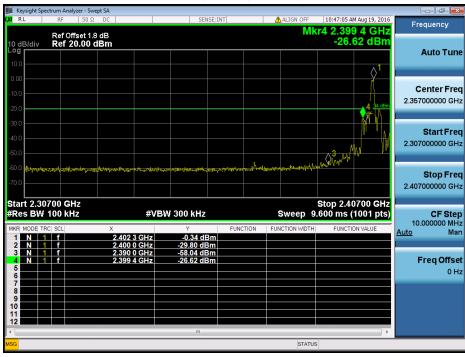
Report No.: BTL-FCCP-2-1607236 Page 58 of 68





Test Mode: CH00, CH19, CH39 - 1Mbps

CH00 (Lower) - 1Mbps



CH39 (upper) - 1Mbps



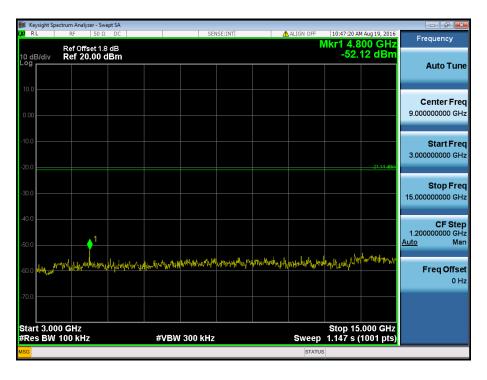
Report No.: BTL-FCCP-2-1607236 Page 59 of 68





CH00 (10 Harmonic of the frequency)





Report No.: BTL-FCCP-2-1607236 Page 60 of 68





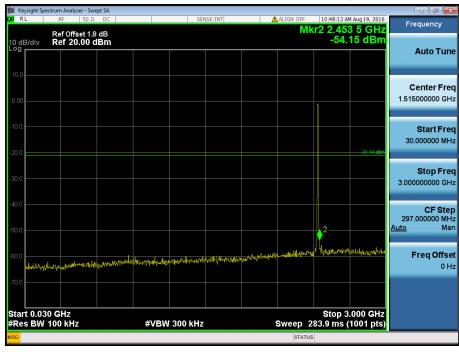


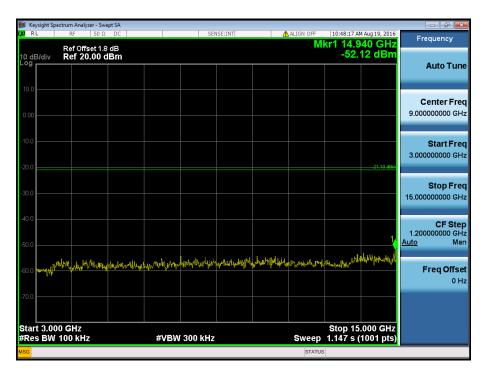
Report No.: BTL-FCCP-2-1607236 Page 61 of 68





CH19 (10 Harmonic of the frequency)





Report No.: BTL-FCCP-2-1607236 Page 62 of 68





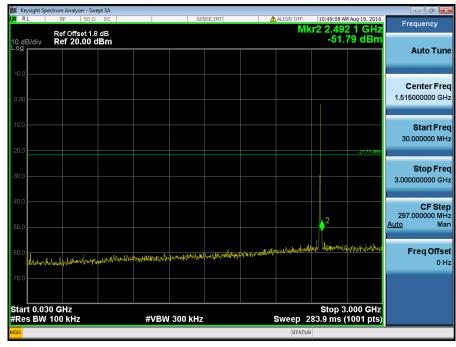


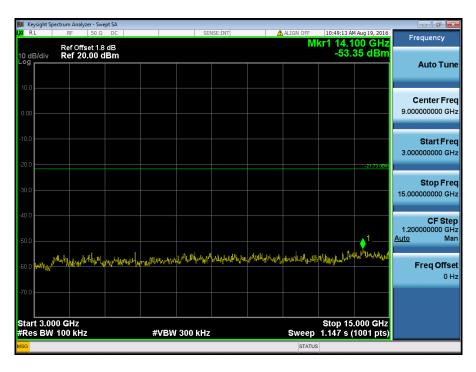
Report No.: BTL-FCCP-2-1607236 Page 63 of 68





CH39 (10 Harmonic of the frequency)

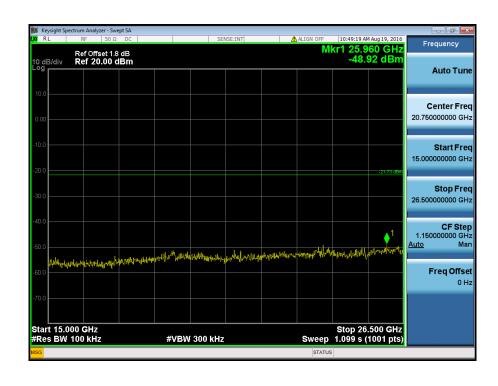




Report No.: BTL-FCCP-2-1607236 Page 64 of 68







Report No.: BTL-FCCP-2-1607236 Page 65 of 68





ATTAC	CHMENT H - POWER S	PECTRAL DENSITY TES	т

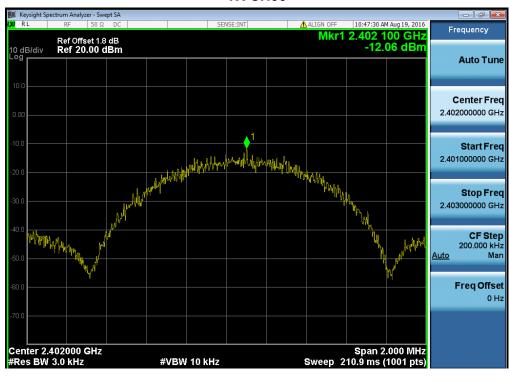
Report No.: BTL-FCCP-2-1607236 Page 66 of 68





Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	-12.06	8	Complies
2440	-13.41	8	Complies
2480	-13.31	8	Complies

TX CH00

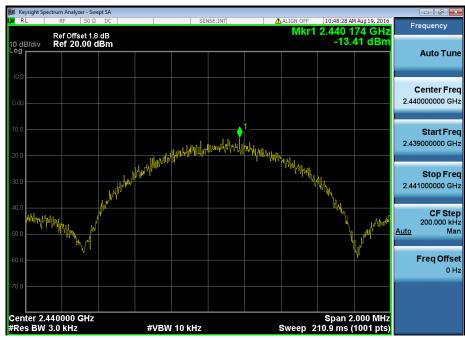


Report No.: BTL-FCCP-2-1607236 Page 67 of 68





TX CH19



TX CH39



Report No.: BTL-FCCP-2-1607236 Page 68 of 68