



FCC Radio Test Report FCC ID: P27SWPIR03N

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

Project No. : 1610105

Equipment: Z-Wave Motion Sensor

Model Name: SW-PIR03Nxxxxxxxx (the 1st x should be "blank" or

"-"; the rest x could be 0 to 9, A to Z, "blank" or ,for

marketing purpose)

Applicant: Sercomm Corporation

Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei, Taiwan

115

Date of Receipt : Oct. 12, 2016

Date of Test : Oct. 12, 2016 ~ Nov. 07, 2016

Issued Date : Nov. 07, 2016

Tested by : BTL Inc.

Testing Engineer : Kush

(Rush Kao)

Technical Manager

Authorized Signatory

(Andy Chiu)

BTL INC.

B1, No.37, Lane 365, Yang Guang St., Nei-Hu District, Taipei City 114, Taiwan.

TEL:+886-2-2657-3299 FAX: +886-2-2657-3331

Report No.: BTL-FCCP-1-1610105 Page 1 of 58





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 international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

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.

Report No.: BTL-FCCP-1-1610105 Page 2 of 58





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	10
3.3 BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED	10
3.4 DESCRIPTION OF SUPPORT UNITS	10
4 .EMC EMISSION TEST	11
4.1 CONDUCTED EMISSION MEASUREMENT	11
4.1.1 POWER LINE CONDUCTED EMISSION 4.1.2 TESTPROCEDURE	11 11
4.1.3 DEVIATIONFROMTESTSTANDARD	11
4.1.4 TESTSETUP 4.1.5 EUT OPERATING CONDITIONS	12 12
4.1.6 EUT TEST CONDITIONS	12
4.1.7 TEST RESULTS	12
4.2 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	13 13
4.2.1 RADIATED EMISSION CHAITS 4.2.2 TESTPROCEDURE	15
4.2.3 DEVIATIONFROMTESTSTANDARD	15
4.2.4 TESTSETUP 4.2.5 EUT OPERATING CONDITIONS	16 17
4.2.6 EUT TEST CONDITIONS	17
4.2.7 TEST RESULTS (BELOW 30MHz)	17
4.2.8 TEST RESULTS (30 TO 1000 MHz) 4.2.9 TEST RESULTS(ABOVE1000 MHz)	17 17
5 .BANDWIDTH TEST	18
5.1 TEST PROCEDURE	18
5.2 DEVIATION FROM STANDARD	18
5.3 TEST SETUP 5.4 EUT OPERATION CONDITIONS	18 18
5.5 EUT TEST CONDITIONS	18
5.6 TEST RESULTS	18
6 .MEASUREMENT INSTRUMENTS LIST AND SETTING	19
7 .EUT TEST PHOTO	20

Report No.: BTL-FCCP-1-1610105





Table of Contents	Page
ATTACHMENT A - CONDUCTED EMISSION	24
ATTACHMENT B -RADIATED EMISSION (9KHZ to 30MHZ)	25
ATTACHMENT C -RADIATED EMISSION (30MHZ TO 1000MHZ)	38
ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ)	45
ATTACHMENT E - BANDWIDTH	56

Report No.: BTL-FCCP-1-1610105 Page 4 of 58





REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1610105	Original Issue.	Nov. 07, 2016

Report No.: BTL-FCCP-1-1610105 Page 5 of 58





1. CERTIFICATION

Equipment : Z-Wave Motion Sensor

Brand Name : Sercomm

Model Name : SW-PIR03Nxxxxxxxx (the 1st x should be "blank" or "-"; the rest x could

be 0 to 9, A to Z, "blank" or ,for marketing purpose)

Applicant : Sercomm Corporation

Date of Test : Oct. 12, 2016 ~ Nov. 07, 2016

Test Sample : Engineering Sample

Standard(s) : FCC Part15, Subpart C(15.249)/ 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-1-1610105) 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-1-1610105 Page 6 of 58





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.249)				
StandardSection	Test Item	Judgment	Remark	
15.207	Conducted Emission	N/A	NOTE (1)	
15.209 15.249	Radiated Spurious Emission	PASS		
-	Bandwidth	PASS		

NOTE:

(1)"N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

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

Radiated emission Test (Below 1GHz):

CB15: (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):

CB15: (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-1-1610105 Page 7 of 58





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. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15	CISPR	9kHz ~ 150kHz	2.96
(3m)	CIOPK	150kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range		U,(dB)
		30MHz ~ 200MHz	V	4.76
CB15	CISPR	30MHz ~ 200MHz	Н	4.28
(3m)	CIOPK	200MHz ~ 1,000MHz	V	5.08
		200MHz ~ 1,000MHz	Н	4.50

Test Site	Method	Measurement Frequency Range		U,(dB)
		1GHz ~ 6GHz	V	4.48
CB15	CISPR	1GHz ~ 6GHz	Н	4.50
(3m)	CIOPR	6GHz ~ 18GHz	V	4.30
		6GHz ~ 18GHz	Н	4.14

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-1-1610105





3.GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Z-Wave Motion Sensor	Z-Wave Motion Sensor		
Brand Name	Sercomm			
Model Name	SW-PIR03Nxxxxxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, "blank" or ,for marketing purpose)			
Model Difference	Differ in marketing purpose.			
	Operation Frequency	908.4~916 MHz		
Product Description	Product Description Modulation Technology GFSK Data rate 9.6, 40, 100 Kbps			
Froduct Description				
	Field Strength 91.85 dBuV/m			
PowerSource	DC Voltage supplied from Battery. Model: a. GP / CR123A b. EVE / CR123A			
Power Rating	DC 3V (CR123A*1)			

Note:

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

2. Channel List:

Channe1	Frequency (MHz)
01	908.4
02	916

Table for Filed Antenna:

3.	Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
	1	SESCOW	SW-PIR03N	Internal	Soldered	-1

Report No.: BTL-FCCP-1-1610105 Page 9 of 58





3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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	
Final Test Mode	Description	

Final Test Mode Description Mode 1 TX Mode

3.3BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED

EUT		
	EUT	

3.4DESCRIPTION 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.
-	-	-	-	-	-

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

Report No.: BTL-FCCP-1-1610105 Page 10 of 58





4.EMC EMISSION TEST

4.1CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

Fraguency of Emission (MHz)	Conducted Li	mit (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

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 TESTPROCEDURE

- 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 equipmentspowered 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 groundplane 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.

4.1.3DEVIATIONFROMTESTSTANDARD

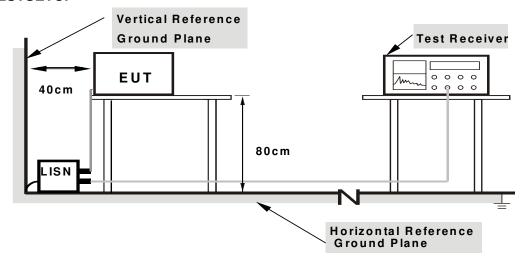
No deviation

Report No.: BTL-FCCP-1-1610105 Page 11 of 58





4.1.4 TESTSETUP



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

4.1.5EUT 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.

The EUT was programmed to be in continuously transmitting mode.

4.1.6EUT TEST CONDITIONS

Temperature: N/A Relative Humidity: N/A Test Voltage: N/A

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.

Report No.: BTL-FCCP-1-1610105 Page 12 of 58





4.2 RADIATED EMISSION MEASUREMENT

4.2.1RADIATED EMISSION LIMITS (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/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

Harmonic emissions limits comply with below 54dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section15.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	(dBuV/m) (at 3m)		
FREQUENCY (MHZ)	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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic

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

Report No.: BTL-FCCP-1-1610105 Page 13 of 58





DWELL TIME OF PERIODIC OPERATION MEASUREMENT



Report No.: BTL-FCCP-1-1610105 Page 14 of 58





4.2.2 TESTPROCEDURE

- 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 1.5m,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.

4.2.3DEVIATIONFROMTESTSTANDARD

No deviation

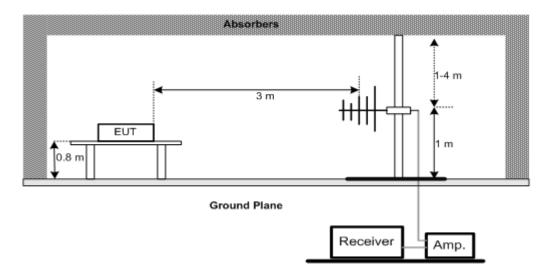
Report No.: BTL-FCCP-1-1610105 Page 15 of 58



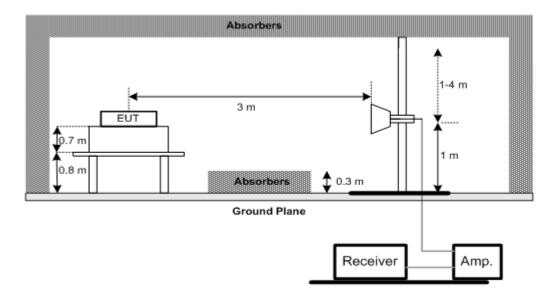


4.2.4 TESTSETUP

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



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

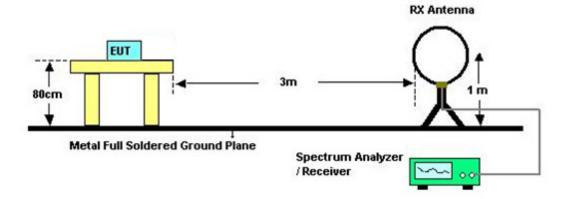


Report No.: BTL-FCCP-1-1610105 Page 16 of 58





(C) For radiated emissions below 30MHz



4.2.5EUT 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.

4.2.6EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 65% Test Voltage: DC 3V

4.2.7 TEST RESULTS (BELOW 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...

4.2.8 TEST RESULTS (30 TO 1000 MHz)

Please refer to the Attachment C

4.2.9 TEST RESULTS(ABOVE1000 MHz)

Please refer to the Attachment D

Remark:

- (1) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (2) 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

Report No.: BTL-FCCP-1-1610105 Page 17 of 58





5.BANDWIDTH TEST

5.1TEST 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=3kHz, Sweep time = Auto.

5.2DEVIATION FROM STANDARD

No deviation.

5.3TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.4EUT 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.

5.5EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: DC 3V

5.6 TEST RESULTS

Please refer to the Attachment E

Report No.: BTL-FCCP-1-1610105 Page 18 of 58





6.MEASUREMENT INSTRUMENTS LIST AND SETTING

	Radiated Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168-352	9168-352	Feb. 04, 2017
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-546	Nov. 05, 2017
3	Pre-Amplifier	HP	8447D	2944A08891	Mar. 09 2017
4	Pre-Amplifier	Agilent	8449B	3008A02331	Jan. 24, 2017
5	Test Cable	EMCI	EMC8D-NM-NM-8000	150301	Mar. 09, 2017
6	Test Cable	EMCI	EMC104-SM-SM-2500	150303	Mar. 09, 2017
7	Test Cable	EMCI	EMC104-NM-SM-1000	150304	Mar. 09, 2017
8	Test Cable	EMCI	EMC104-SM-SM-5000	150302	Mar. 29, 2017
9	Test Cable	EMCI	EMC104-SM-SM-800	150305	Mar. 29, 2017
10	EXA Spectrum Analyzer	Agilent	N9010A	MY52220990	Feb. 24, 2017
11	EMI Test Receiver	Agilent	N9038A	MY51210215	Jan. 08, 2017
12	Loop Antenna	EMCO	6502	00042960	Nov. 05. 2017

		В	andwidth		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 18, 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-1-1610105 Page 19 of 58



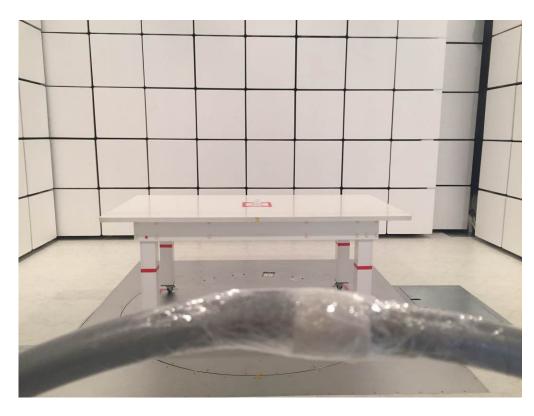


7.EUT TEST PHOTO

Radiated Measurement Photos

9KHz to 30MHz





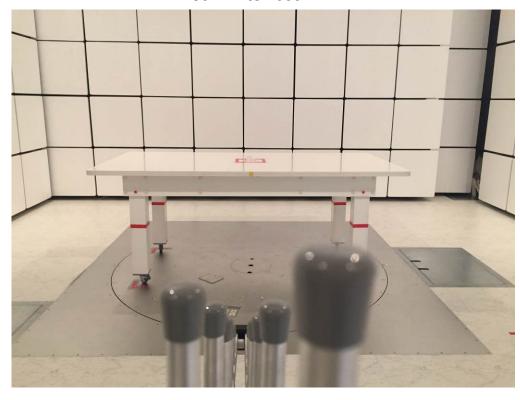
Report No.: BTL-FCCP-1-1610105 Page 20 of 58





Radiated Measurement Photos

30MHz to 1000MHz





Report No.: BTL-FCCP-1-1610105 Page 21 of 58





Radiated Measurement Photos

Above 1000MHz





Report No.: BTL-FCCP-1-1610105





Radiated Measurement Photos



Report No.: BTL-FCCP-1-1610105 Page 23 of 58





ATTACHMENT A - CONDUCTED EMISSION

	Test	Mode: N/A	
Note	e: "N/A" denotes t	est is not applica	ble to this device.

Report No.: BTL-FCCP-1-1610105 Page 24 of 58





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

Report No.: BTL-FCCP-1-1610105 Page 25 of 58





Test Mode: TX Mode_908.4MHz_9.6k



No. Mk.	Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0212	45.16	17.42	62.58	127.64	-65.06	peak	

Report No.: BTL-FCCP-1-1610105 Page 26 of 58





Test Mode: TX Mode_908.4MHz_9.6k

OPEN 130.0 dBuV/m 120 110 100 90 80 70 60 50 40 3 X 30 4 X 5 X 8 X 20 10 0.0 0.150 3.14 6.12 9.10 12.09 15.08 18.06 21.04 24.03 30.00 MHz

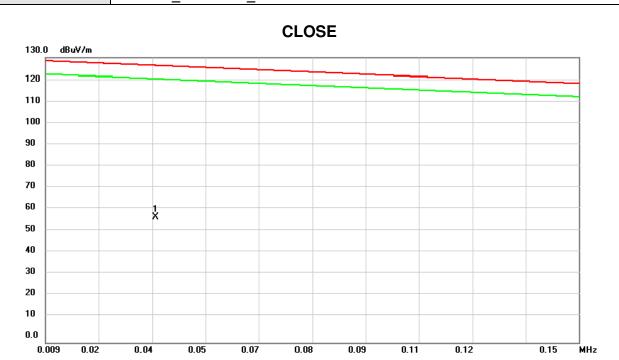
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
•			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		0.8660	30.84	11.95	42.79	70.45	-27.66	peak	
	2	*	1.5530	25.58	11.75	37.33	64.32	-26.99	peak	
	3		2.8065	20.46	11.19	31.65	69.54	-37.89	peak	
•	4		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
	5		8.4184	13.23	11.33	24.56	69.54	-44.98	peak	
•	6		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	

Report No.: BTL-FCCP-1-1610105 Page 27 of 58





Test Mode: TX Mode_908.4MHz_9.6k



No.	Mk.	Freq.	_	Correct Factor	Measure- ment		Margin				
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1	*	0.0380	43.20	14.20	57.40	126.43	-69.03	peak			

Report No.: BTL-FCCP-1-1610105 Page 28 of 58



0.150

3.14

6.12

9.10

12.09



Test Mode: TX Mode_908.4MHz_9.6k



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		0.1500	47.16	12.03	59.19	118.34	-59.15	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		9.5228	13.44	11.31	24.75	69.54	-44.79	peak	
_	5		13.0152	12.08	11.21	23.29	69.54	-46.25	peak	
	6		20.3883	11.79	10.93	22.72	69.54	-46.82	peak	
_										

15.08

18.06

21.04

24.03

30.00

MHz

Report No.: BTL-FCCP-1-1610105 Page 29 of 58



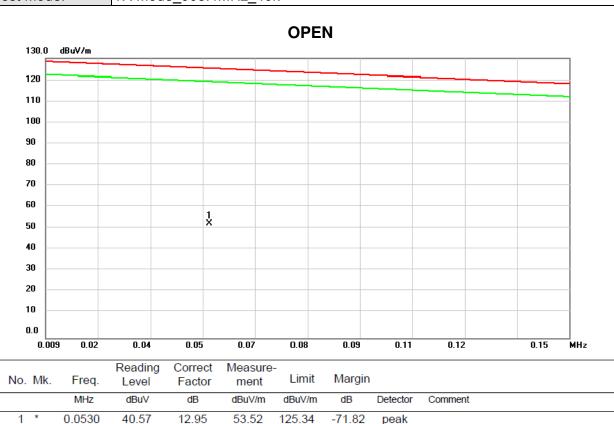
1 *



Test Mode: TX Mode_908.4MHz_40k

40.57

12.95



125.34

-71.82

peak

Report No.: BTL-FCCP-1-1610105 Page 30 of 58





Test Mode: TX Mode_908.4MHz_40k

OPEN 130.0 dBuV/m 120 110 100 90 80 70 60 50 40 X 30 3 X **4** × 5 X 6 X 20 10 0.0 0.150 3.14 6.12 9.10 12.09 15.08 18.06 21.04 24.03 30.00 MHz

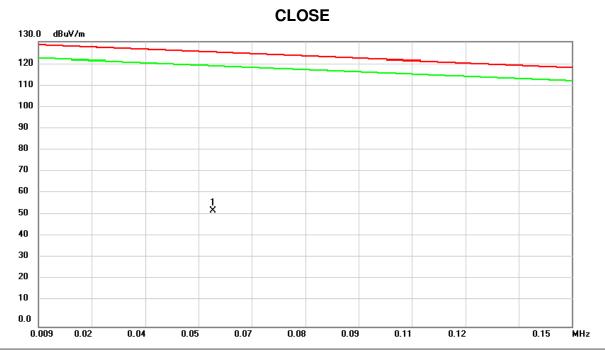
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		0.1800	44.87	11.98	56.85	116.18	-59.33	peak	
	2	*	1.7020	25.41	11.68	37.09	63.00	-25.91	peak	
	3		4.8066	16.98	11.37	28.35	69.54	-41.19	peak	
-	4		7.2244	13.53	11.36	24.89	69.54	-44.65	peak	
	5		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	
-	6		16.1794	11.63	11.11	22.74	69.54	-46.80	peak	
-										

Report No.: BTL-FCCP-1-1610105 Page 31 of 58





Test Mode: TX Mode_908.4MHz_40k



	No.	Mk.	Freq.			Measure- ment		Margin				
•			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
	1	*	0.0551	40.21	12.91	53.12	125.19	-72.07	peak			

Report No.: BTL-FCCP-1-1610105 Page 32 of 58





Test Mode: TX Mode_908.4MHz_40k

CLOSE 130.0 dBuV/m 120 110 100 90 80 70 60 50 40 2 X 30 4 5 X X 6 X 20 10 0.0 0.150 3.14 6.12 9.10 12.09 15.08 18.06 21.04 24.03 30.00 MHz

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
	2	*	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
_	3		3.1051	20.33	11.12	31.45	69.54	-38.09	peak	
_	4		4.6573	16.56	11.35	27.91	69.54	-41.63	peak	
_	5		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
_	6		12.1493	12.61	11.24	23.85	69.54	-45.69	peak	
_										

Report No.: BTL-FCCP-1-1610105 Page 33 of 58





Test Mode: TX Mode_916MHz_100k



	No.	Mk.	Freq.	Reading Level		Measure- ment		Margin				
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
	1	*	0.0137	47.07	19.48	66.55	128.18	-61.63	peak			

Report No.: BTL-FCCP-1-1610105 Page 34 of 58





Test Mode: TX Mode_916MHz_100k

OPEN 130.0 dBuV/m 120 110 100 90 80 70 60 50 × 3 4 × 40 5 6 X X 30 20 10 0.0 0.150 3.14 6.12 9.10 12.09 15.08 18.06 21.04 24.03 30.00 MHz

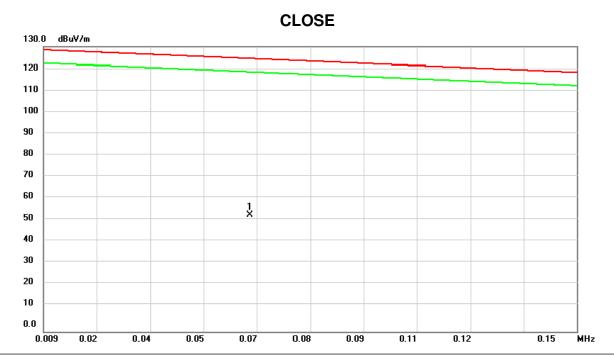
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		0.3291	40.93	11.80	52.73	105.41	-52.68	peak	
	2	*	0.6873	33.26	11.87	45.13	72.04	-26.91	peak	
	3		1.3440	27.36	11.85	39.21	66.19	-26.98	peak	
-	4		2.1200	23.06	11.50	34.56	69.54	-34.98	peak	
	5		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
	6		5.0750	16.98	11.40	28.38	69.54	-41.16	peak	
-										

Report No.: BTL-FCCP-1-1610105 Page 35 of 58





Test Mode: TX Mode_916MHz_100k



No.	Mk.	Freq.	Reading Level		Measure- ment		Margin				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1	*	0.0637	40.61	12.75	53.36	124.57	-71.21	peak			

Report No.: BTL-FCCP-1-1610105 Page 36 of 58





Test Mode: TX Mode_916MHz_100k



	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		2.9560	21.26	11.12	32.38	69.54	-37.16	peak	
	3		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
	4		9.5228	13.44	11.31	24.75	69.54	-44.79	peak	
	5		12.1493	12.61	11.24	23.85	69.54	-45.69	peak	
	6		20.3883	11.79	10.93	22.72	69.54	-46.82	peak	
-										

Report No.: BTL-FCCP-1-1610105 Page 37 of 58





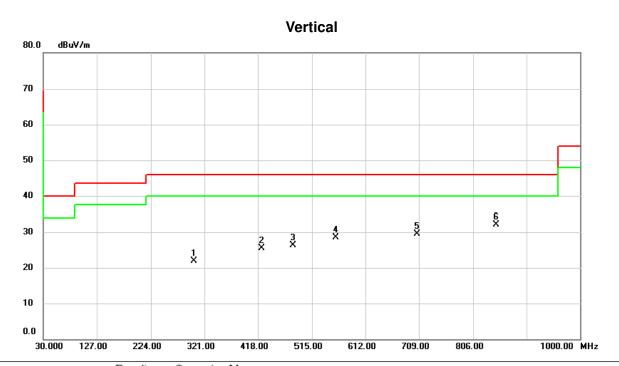
ATTACHMENT C -RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-1-1610105 Page 38 of 58





Test Mode: TX Mode_908.4MHz_9.6k



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	;	302.5700	29.61	-7.72	21.89	46.00	-24.11	peak	
	2	4	424.7900	30.09	-4.56	25.53	46.00	-20.47	peak	
-	3	4	482.0200	29.69	-3.34	26.35	46.00	-19.65	peak	
_	4	ļ	558.6500	30.21	-1.69	28.52	46.00	-17.48	peak	
	5		706.0900	28.60	0.99	29.59	46.00	-16.41	peak	
-	6	*	847.7100	28.92	3.09	32.01	46.00	-13.99	peak	
_										

Report No.: BTL-FCCP-1-1610105 Page 39 of 58



30.000

127.00

224.00

321.00

418.00



Test Mode: TX Mode_908.4MHz_9.6k

Horizontal 80.0 dBuV/m 70 60 50 40 Š 5 X 30 **4** X 3 X 2 X 1 X 20 10 0.0

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		295.7800	29.67	-7.84	21.83	46.00	-24.17	peak	
2		391.8100	29.54	-5.41	24.13	46.00	-21.87	peak	
3		498.5100	29.06	-3.05	26.01	46.00	-19.99	peak	
4		558.6500	29.70	-1.69	28.01	46.00	-17.99	peak	
5		770.1100	29.02	2.10	31.12	46.00	-14.88	peak	
6	*	818.6100	29.32	2.69	32.01	46.00	-13.99	peak	

515.00

612.00

709.00

806.00

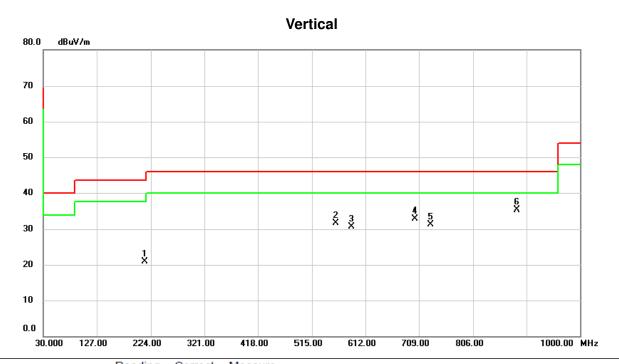
1000.00 MHz

Report No.: BTL-FCCP-1-1610105 Page 40 of 58





Test Mode: TX Mode_908.4MHz_40k



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	2	13.3300	32.10	-11.13	20.97	43.50	-22.53	peak	
_	2	5	58.6500	33.42	-1.69	31.73	46.00	-14.27	peak	
	3	5	86.7800	31.61	-0.97	30.64	46.00	-15.36	peak	
_	4	7	01.2400	32.06	0.88	32.94	46.00	-13.06	peak	
	5	7	30.3400	29.79	1.49	31.28	46.00	-14.72	peak	
	6	* 8	85.5400	31.53	3.83	35.36	46.00	-10.64	peak	
_										

Report No.: BTL-FCCP-1-1610105 Page 41 of 58



30.000

127.00

224.00

321.00

418.00



Test Mode: TX Mode_908.4MHz_40k

Horizontal 80.0 dBuV/m 70 60 50 40 6 X 5 X 3 4 × × 30 2 X X X 20 10 0.0

MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 360.7700 29.77 -6.10 23.67 46.00 -22.33 peak 2 437.4000 29.94 -4.21 25.73 46.00 -20.27 peak 3 558.6500 30.39 -1.69 28.70 46.00 -17.30 peak 4 598.4200 29.80 -0.66 29.14 46.00 -16.86 peak 5 738.1000 29.81 1.64 31.45 46.00 -14.55 peak 6 * 901.0600 29.70 4.13 33.83 46.00 -12.17 peak	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
2 437.4000 29.94 -4.21 25.73 46.00 -20.27 peak 3 558.6500 30.39 -1.69 28.70 46.00 -17.30 peak 4 598.4200 29.80 -0.66 29.14 46.00 -16.86 peak 5 738.1000 29.81 1.64 31.45 46.00 -14.55 peak			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 558.6500 30.39 -1.69 28.70 46.00 -17.30 peak 4 598.4200 29.80 -0.66 29.14 46.00 -16.86 peak 5 738.1000 29.81 1.64 31.45 46.00 -14.55 peak	1		360.7700	29.77	-6.10	23.67	46.00	-22.33	peak	
4 598.4200 29.80 -0.66 29.14 46.00 -16.86 peak 5 738.1000 29.81 1.64 31.45 46.00 -14.55 peak	2		437.4000	29.94	-4.21	25.73	46.00	-20.27	peak	
5 738.1000 29.81 1.64 31.45 46.00 -14.55 peak	3		558.6500	30.39	-1.69	28.70	46.00	-17.30	peak	
Total Later Carlot Carl	4		598.4200	29.80	-0.66	29.14	46.00	-16.86	peak	
6 * 901.0600 29.70 4.13 33.83 46.00 -12.17 peak	5		738.1000	29.81	1.64	31.45	46.00	-14.55	peak	
	6	*	901.0600	29.70	4.13	33.83	46.00	-12.17	peak	

515.00

612.00

709.00

806.00

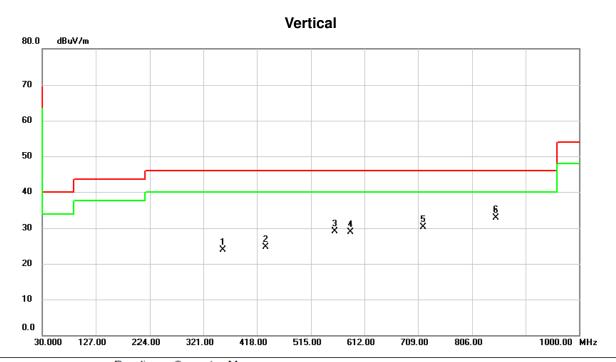
1000.00 MHz

Report No.: BTL-FCCP-1-1610105 Page 42 of 58





Test Mode: TX Mode_916MHz_100k



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	3	356.8900	30.09	-6.19	23.90	46.00	-22.10	peak	
	2	4	133.5200	29.11	-4.32	24.79	46.00	-21.21	peak	
_	3	5	558.6500	30.70	-1.69	29.01	46.00	-16.99	peak	
_	4	5	86.7800	29.90	-0.97	28.93	46.00	-17.07	peak	
	5	7	718.7000	29.05	1.24	30.29	46.00	-15.71	peak	
_	6	* 8	348.6800	29.77	3.11	32.88	46.00	-13.12	peak	
_										

Report No.: BTL-FCCP-1-1610105 Page 43 of 58





Test Mode: TX Mode_916MHz_100k

Horizontal 80.0 dBuV/m 70 60 50 40 3 4 5 6 × × × × 30 2 X 20 10 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 235.6400 30.16 -10.01 20.15 46.00 -25.85 peak 2 357.8600 29.63 -6.17 23.46 46.00 -22.54 peak 3 558.6500 30.22 -1.69 28.53 46.00 -17.47 peak 4 596.4800 29.97 -0.71 29.26 46.00 -16.74 peak 5 645.9500 29.56 -0.27 29.29 46.00 -16.71 peak 6 * 667.2900 29.37 0.14 29.51 46.00 -16.49 peak	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
2 357.8600 29.63 -6.17 23.46 46.00 -22.54 peak 3 558.6500 30.22 -1.69 28.53 46.00 -17.47 peak 4 596.4800 29.97 -0.71 29.26 46.00 -16.74 peak 5 645.9500 29.56 -0.27 29.29 46.00 -16.71 peak			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 558.6500 30.22 -1.69 28.53 46.00 -17.47 peak 4 596.4800 29.97 -0.71 29.26 46.00 -16.74 peak 5 645.9500 29.56 -0.27 29.29 46.00 -16.71 peak	1	2	235.6400	30.16	-10.01	20.15	46.00	-25.85	peak	
4 596.4800 29.97 -0.71 29.26 46.00 -16.74 peak 5 645.9500 29.56 -0.27 29.29 46.00 -16.71 peak	2	3	357.8600	29.63	-6.17	23.46	46.00	-22.54	peak	
5 645.9500 29.56 -0.27 29.29 46.00 -16.71 peak	3	5	558.6500	30.22	-1.69	28.53	46.00	-17.47	peak	
2 2122 222 1212 1212 1212	4	5	596.4800	29.97	-0.71	29.26	46.00	-16.74	peak	
6 * 667.2900 29.37 0.14 29.51 46.00 -16.49 peak	5	6	645.9500	29.56	-0.27	29.29	46.00	-16.71	peak	
	6	* 6	667.2900	29.37	0.14	29.51	46.00	-16.49	peak	

Report No.: BTL-FCCP-1-1610105 Page 44 of 58





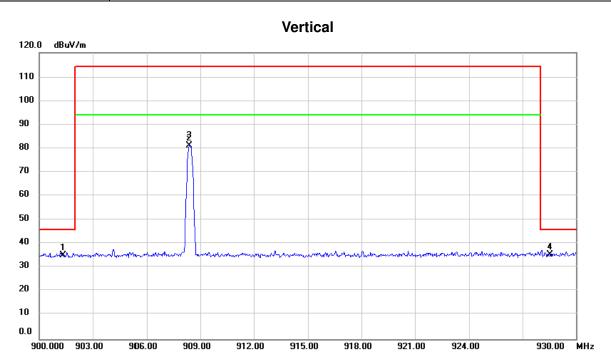
ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-1-1610105 Page 45 of 58





Orthogonal Axis:	X
Test Mode :	TX Mode_908.4MHz_9.6k



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		901.3240	4.10	31.17	35.27	46.00	-10.73	peak		
	2		908.4000	49.97	31.26	81.23	114.00	-32.77	peak		
-	3		908.4000	49.91	31.26	81.17	94.00	-12.83	AVG		
-	4	*	928.5540	4.09	31.53	35.62	46.00	-10.38	peak		
											_

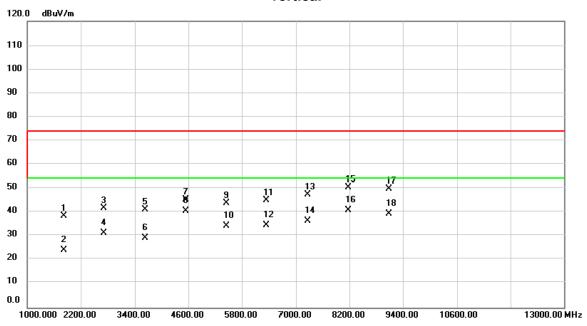
Report No.: BTL-FCCP-1-1610105 Page 46 of 58





Orthogonal Axis: X
Test Mode: TX Mode_908.4MHz_9.6k

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	816.000	57.76	-19.27	38.49	74.00	-35.51	peak	
2	1	816.000	43.44	-19.27	24.17	54.00	-29.83	AVG	
3	2	724.000	57.50	-15.76	41.74	74.00	-32.26	peak	
4	2	724.000	47.12	-15.76	31.36	54.00	-22.64	AVG	
5	3	632.000	55.37	-13.98	41.39	74.00	-32.61	peak	
6	3	632.000	43.27	-13.98	29.29	54.00	-24.71	AVG	
7	4	540.000	57.51	-11.92	45.59	74.00	-28.41	peak	
8	4	540.000	52.60	-11.92	40.68	54.00	-13.32	AVG	
9	5	448.000	54.77	-10.78	43.99	74.00	-30.01	peak	
10	5	448.000	45.26	-10.78	34.48	54.00	-19.52	AVG	
11	6	356.000	53.39	-8.09	45.30	74.00	-28.70	peak	
12	6	356.000	42.88	-8.09	34.79	54.00	-19.21	AVG	
13	7	264.000	52.94	-5.25	47.69	74.00	-26.31	peak	

Report No.: BTL-FCCP-1-1610105 Page 47 of 58





Orthogonal Axis:	X
Test Mode :	TX Mode_908.4MHz_9.6k

						Vertica	al		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
14		7264.000	41.76	-5.25	36.51	54.00	-17.49	AVG	
15		8172.000	52.78	-2.25	50.53	74.00	-23.47	peak	
16	*	8172.000	43.10	-2.25	40.85	54.00	-13.15	AVG	
17		9080.000	51.04	-0.95	50.09	74.00	-23.91	peak	
18		9080.000	40.37	-0.95	39.42	54.00	-14.58	AVG	

Report No.: BTL-FCCP-1-1610105 Page 48 of 58





Orthogonal Axis: X
Test Mode: TX Mode_908.4MHz_9.6k

No.	. MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		901	1.2380	7.74	31.16	38.90	46.00	-7.10	peak	
2		908	3.4000	60.59	31.26	91.85	114.00	-22.15	peak	
3	*	908	3.4000	60.31	31.26	91.57	94.00	-2.43	AVG	
4		928	3.0280	5.80	31.53	37.33	46.00	-8.67	peak	

915.00

912.00

918.00

921.00

924.00

930.00 MHz

906.00

900.000 903.00

909.00

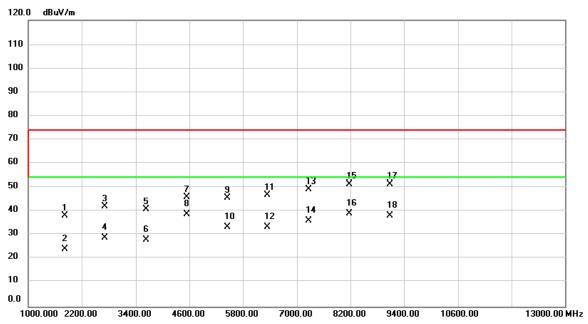
Report No.: BTL-FCCP-1-1610105 Page 49 of 58





Orthogonal Axis: X
Test Mode: TX Mode_908.4MHz_9.6k

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	816.000	57.66	-19.27	38.39	74.00	-35.61	peak	
2	1	816.000	43.46	-19.27	24.19	54.00	-29.81	AVG	
3	2	724.000	57.79	-15.76	42.03	74.00	-31.97	peak	
4	2	724.000	44.81	-15.76	29.05	54.00	-24.95	AVG	
5	3	632.000	54.94	-13.98	40.96	74.00	-33.04	peak	
6	3	632.000	41.91	-13.98	27.93	54.00	-26.07	AVG	
7	4	540.000	58.04	-11.92	46.12	74.00	-27.88	peak	
8	4	540.000	50.77	-11.92	38.85	54.00	-15.15	AVG	
9	5	448.000	56.61	-10.78	45.83	74.00	-28.17	peak	
10	5	448.000	44.10	-10.78	33.32	54.00	-20.68	AVG	
11	6	356.000	54.95	-8.09	46.86	74.00	-27.14	peak	
12	6	356.000	41.63	-8.09	33.54	54.00	-20.46	AVG	
13	7	264.000	54.53	-5.25	49.28	74.00	-24.72	peak	

Report No.: BTL-FCCP-1-1610105 Page 50 of 58





Orthogonal Axis:	X
Test Mode :	TX Mode_908.4MHz_9.6k

Horizontal Reading Correct Measure-Limit Margin No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV/m dBuV/m dΒ Detector Comment 14 7264.000 41.31 -5.25 36.06 54.00 -17.94 AVG 8172.000 74.00 15 53.62 -2.25 51.37 -22.63 peak 16 8172.000 41.38 -2.25 39.13 54.00 -14.87 AVG 17 9080.000 52.52 -0.95 51.57 74.00 -22.43 peak 18 9080.000 39.07 -0.95 38.12 54.00 -15.88 AVG

Report No.: BTL-FCCP-1-1610105 Page 51 of 58





Vertical 120.0 dBuV/m 110 100 90 80 70 60 50 40 30 20 10 0.0 900.000 903.00 906.00 909.00 912.00 915.00 918.00 921.00 924.00 930.00 MHz

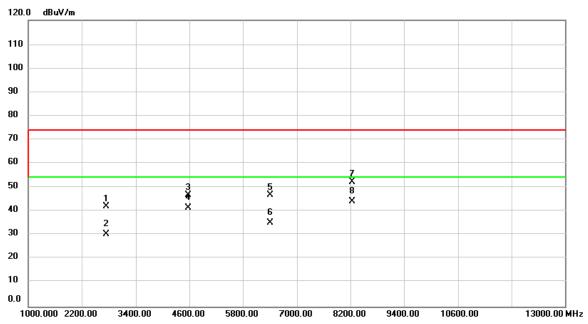
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1	*	900.2940	8.03	31.15	39.18	46.00	-6.82	peak	
	2		916.0000	48.30	31.36	79.66	114.00	-34.34	peak	
-	3		916.0000	48.02	31.36	79.38	94.00	-14.62	AVG	
	4		929.7440	7.24	31.55	38.79	46.00	-7.21	peak	
-										

Report No.: BTL-FCCP-1-1610105 Page 52 of 58





Vertical



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		2748.000	57.85	-15.67	42.18	74.00	-31.82	peak	
_	2		2748.000	46.16	-15.67	30.49	54.00	-23.51	AVG	
	3		4580.000	58.80	-11.84	46.96	74.00	-27.04	peak	
	4		4580.000	53.26	-11.84	41.42	54.00	-12.58	AVG	
	5		6412.000	54.73	-7.92	46.81	74.00	-27.19	peak	
_	6		6412.000	43.18	-7.92	35.26	54.00	-18.74	AVG	
_	7		8244.000	54.72	-2.23	52.49	74.00	-21.51	peak	
	8	*	8244.000	46.50	-2.23	44.27	54.00	-9.73	AVG	
_										

Report No.: BTL-FCCP-1-1610105 Page 53 of 58





Horizontal 120.0 dBuV/m 110 100 90 80 70 60 50 40 30 20 10 0.0 906.00 909.00 900.000 903.00 915.00 924.00 930.00 MHz 912.00 918.00 921.00

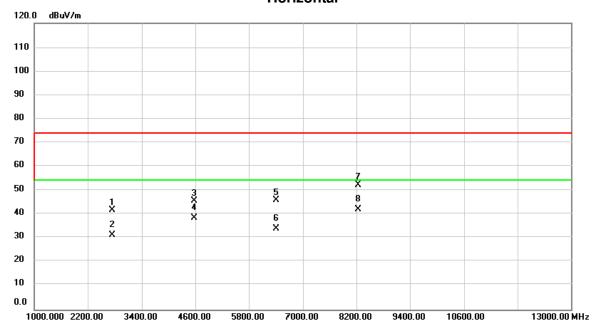
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
Ī	1	(900.6480	7.54	31.16	38.70	46.00	-7.30	peak		
	2	(916.0000	59.67	31.36	91.03	114.00	-22.97	peak		
	3	*	916.0000	59.07	31.36	90.43	94.00	-3.57	AVG		
Ī	4	(929.8580	8.00	31.55	39.55	46.00	-6.45	peak		

Report No.: BTL-FCCP-1-1610105 Page 54 of 58





Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2748.000	57.65	-15.67	41.98	74.00	-32.02	peak	
2		2748.000	47.11	-15.67	31.44	54.00	-22.56	AVG	
3		4580.000	57.70	-11.84	45.86	74.00	-28.14	peak	
4		4580.000	50.26	-11.84	38.42	54.00	-15.58	AVG	
5		6412.000	54.10	-7.92	46.18	74.00	-27.82	peak	
6		6412.000	41.95	-7.92	34.03	54.00	-19.97	AVG	
7		8244.000	54.43	-2.23	52.20	74.00	-21.80	peak	
8	*	8244.000	44.42	-2.23	42.19	54.00	-11.81	AVG	
				,		,	,	,	·

Report No.: BTL-FCCP-1-1610105 Page 55 of 58





ATTACHMENT E - BANDWIDTH

Report No.: BTL-FCCP-1-1610105 Page 56 of 58

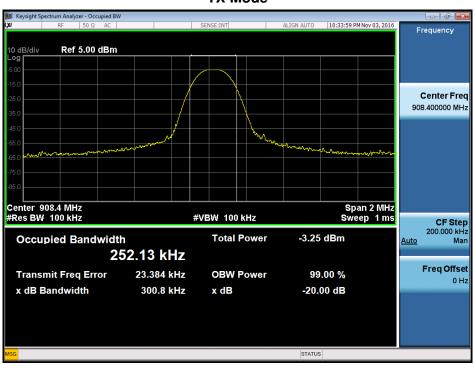




Test Mode: TX Mode_908.4MHz

Frequency	20dB Bandwidth	99% Occupied BW
(MHz)	(MHz)	(MHz)
908.4	0.30	0.25

TX Mode



Report No.: BTL-FCCP-1-1610105 Page 57 of 58





Test Mode : TX Mode_916MHz

Frequency	20dB Bandwidth	99% Occupied BW
(MHz)	(MHz)	(MHz)
916	0.32	0.27

TX Mode



Report No.: BTL-FCCP-1-1610105 Page 58 of 58