

Page 1 of 56

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO **FCC PART 15 SUBPART C REQUIREMENT**

0F

Product Name: Blocks

Brand Name: Blocks

Marketing Name: Blocks

Model No.: **BLKS001**

Model Difference: N/A

FCC ID: 2AHBVBLKS001

Report No.: ER/2016/80032-01

Issue Date: Sep. 02, 2019

FCC Rule Part: §15.247, Cat: DTS

Blocks Wearables Inc

Prepared for: 1800 Century Park East, 10th Floor,

Los Angeles, CA

SGS Taiwan Ltd.

Electronics & Communication Laboratory

Prepared by: No.134, Wu Kung Road, New Taipei

Industrial Park, Wuku District, New Taipei

City, Taiwan 24803





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Page 2 of 56

VERIFICATION OF COMPLIANCE

Blocks Wearables Inc Applicant:

1800 Century Park East, 10th Floor, Los Angeles, CA

Product Name: Blocks

Blocks Brand Name:

Blocks Marketing Name:

BLKS001 Model No.:

Model Difference: N/A

FCC ID: 2AHBVBLKS001

ER/2016/80032-01 **Report Number:**

Date of test: Aug. 08, 2016 ~ Aug. 25, 2016

Date of EUT Received: Aug. 08, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

11 1

Test By:	Marcus Iseng	Date:	Sep. 02, 2019
-	Marcus Tseng / Sr. Engineer	,	
Prepared By:	11-tany Rao	Date:	Sep. 02, 2019
Approved By:	Jim Chang / Asst. Manager	Date:	Sep. 02, 2019

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Page 3 of 56

Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2016/80032	Rev.00	Initial creation of docu- ment	All	Aug. 31, 2016	Tiffany Kao
ER/2016/80032-01	Rev.01	Add section 1.7 remark and conduction data updated	8 & 18 & 19	Sep. 02, 2019	Tiffany Kao

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Page 4 of 56

Contents

1. GENERAL INFORMATION	6
1.1 Product Description	6
1.2 Product Feature of Equipment Under Test	7
1.3 Test Methodology of Applied Standards	8
1.4 Test Facility	
1.5 Special Accessories	3
1.6 Equipment Modifications	
1.7 Remarks	
2. SYSTEM TEST CONFIGURATION	
2.1 EUT Configuration	<u>9</u>
2.2 EUT Exercise	<u>9</u>
2.3 Test Procedure	g
2.4 Measurement Results Explanation Example	g
2.5 Configuration of Tested System	10
3. SUMMARY OF TEST RESULTS	12
4. DESCRIPTION OF TEST MODES	13
4.1 Operated in 2400 ~ 2483.5MHz Band	13
4.2 The Worst Test Modes and Channel Details	14
5. MEASUREMENT UNCERTAINTY	15
6. CONDUCTED EMISSION TEST	16
6.1 Standard Applicable:	16
6.2 Measurement Equipment Used:	16
6.3 EUT Setup:	16
6.4 Test SET-UP (Block Diagram of Configuration)	17
6.5 Measurement Procedure:	17
6.6 Measurement Result:	17
7. PEAK OUTPUT POWER MEASUREMENT	20
7.1 Standard Applicable:	20
7.2 Measurement Equipment Used:	20
7.3 Test Set-up:	20
7.4 Measurement Procedure:	21
7.5 Measurement Result:	22
8. 6dB BANDWIDTH MEASUREMENT	23

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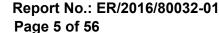
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8.1 Standard Applicable	23
8.2 Measurement Equipment Used	23
8.3 Test Set-up:	23
8.4 Measurement Procedure:	23
8.5 Measurement Result:	24
9. CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	27
9.1 Standard Applicable	27
9.2 Measurement Equipment Used:	27
9.3 Test SET-UP:	27
9.4 Measurement Procedure	28
9.5 Measurement Result	28
10. RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	33
10.1 Standard Applicable	
10.2 Measurement Equipment Used	34
10.3 Test SET-UP	35
10.4 Measurement Procedure	36
10.5 Field Strength Calculation	37
10.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz	37
10.7 Measurement Result:	37
11. PEAK POWER SPECTRAL DENSITY	52
11.1 Standard Applicable:	52
11.2 Measurement Equipment Used:	52
11.3 Test Set-up:	52
11.4 Measurement Procedure:	52
11.5 Measurement Result:	53
12. ANTENNA REQUIREMENT	56
12.1 Standard Applicable:	56
12.2 Antenna Connected Construction:	56

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Page 6 of 56

1. GENERAL INFORMATION

1.1 Product Description

General:

oncial.	
Product Name:	Blocks
Brand Name:	Blocks
Marketing Name:	Blocks
Model No.:	BLKS001
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
USB Charging cable:	Model No.: N/A, Supplier: N/A
Docking:	Model No.: AD120DUTP40K001, Supplier: Lucent Trans
External Battery module (Option):	Model No.: GS296, Supplier: CEI
Flashlight module (Option):	Model No.: GS293, Supplier: CEI
Heart Rate module (Option):	Model No.: GS291, Supplier: CEI
GPS module (Option):	Model No.: GS290, Supplier: CEI
Adventure module (Option):	Model No.: GS292, Supplier: CEI
Programmable button module (Option):	Model No.: GS294, Supplier: CEI
Davis Committee	3.8Vdc from Rechargeable Li-polymer Battery or 5V from USB Port
Power Supply:	Battery: 1. Model No.: APP00183, Supplier: APack 2. Model No.: APP00184, Supplier: APack

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Page 7 of 56

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version	BT V4.1 dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	2.98 dBm
Antenna Designation:	Loop Antenna, Gain: -2.05dBi

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting Wi-Fi 802.11bgn, Bluetooth features, and below is details of information.

Product Feature			
Product Name:	Blocks		
Brand Name:	Blocks		
Marketing Name:	Blocks		
Model No.:	BLKS001		
Model Difference:	N/A		
FCC ID:	2AHBVBLKS001		
Bluetooth Version	V4.1 dual mode		
Wi-Fi- Specification	802.11b/g/n		

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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Page 8 of 56

1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

(TAF code 0513)

FCC Designation number is: TW0001

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

1.7 Remarks

The original test report ER/2016/80032 will be withdrawn with this test report ER/2016/80032-01 and is no longer valid when the withdrawal occurred.

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Page 9 of 56

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz.. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss 1 dB.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

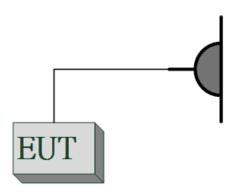
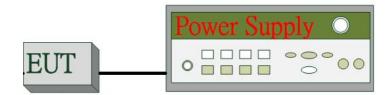


Fig. 2-2 Conducted Emission Configuration



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Page 11 of 56

Fig. 2-3 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

<u> </u>						
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	HP	E3640A	KR93300208	N/A	Un-shielded
3.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Un-shielded

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Page 12 of 56

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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Page 13 of 56

4. DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

CHANNEL	FREQUENCY		FREQUENCY	CHANNEL	FREQUENCY
0	2402 MHz	14	2430 MHz	28	2458 MHz
1	2404 MHz	15	2432 MHz	29	2460 MHz
2	2406 MHz	16	2434 MHz	30	2462 MHz
3	2408 MHz	17	2436 MHz	31	2464 MHz
4	2410 MHz	18	2438 MHz	32	2466 MHz
5	2412 MHz	19	2440 MHz	33	2468 MHz
6	2414 MHz	20	2442 MHz	34	2470 MHz
7	2416MHz	21	2444 MHz	35	2472 MHz
8	2418 MHz	22	2446 MHz	36	2474 MHz
9	2420 MHz	23	2448 MHz	37	2476 MHz
10	2422 MHz	24	2450 MHz	38	2478 MHz
11	2424 MHz	25	2452 MHz	39	2480 MHz
12	2426 MHz	26	2454 MHz		
13	2428 MHz	27	2456 MHz		

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Page 14 of 56

4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	
Bluetooth LE	0 to 39	0,19,39	GFSK	1	
	RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	
Bluetooth LE	0 to 39	0,19,39	GFSK	1	

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	
Bluetooth LE	0 to 39	0,19,39	GFSK	1	

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Page 15 of 56

5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB
(Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	9kHz – 30MHz: +/- 2.87 dB		
Magaziramantunaartaintu	30MHz - 167MHz: +/- 4.22dB		
Measurement uncertainty (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB		
(Foldifization : Florizontal)	0.5GHz-1GHz: +/- 3.39dB		
	1GHz - 18GHz: +/- 4.08dB		
	18GHz - 40GHz: +/- 4.08dB		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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Page 16 of 56

6. CONDUCTED EMISSION TEST

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

1 7 0				
Frequency range	Limits dB(uV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017				
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017				
LISN	MESS TEC	FCC-LISN-50/250 -25-2-01	4034	05/16/2016	05/15/2017				
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016				

6.3 EUT Setup:

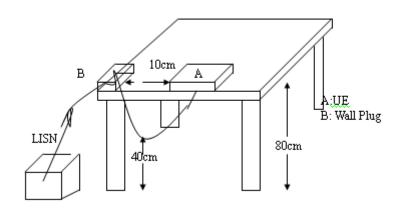
- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plan.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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Temperature:

Humidity:

25 10



AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Aug. 17, 2016	
Temperature:	20 ℃	Humidity:	Test By:	Marcus	
				Phase:	L1

Phase:

Power: AC 120V/60Hz

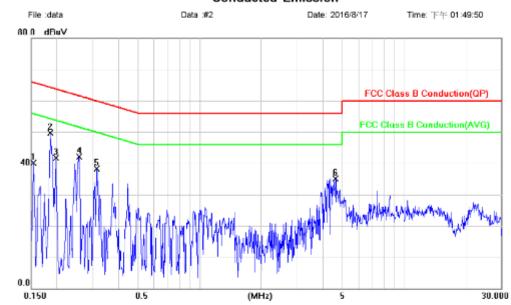
Site Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Operation mode

Note

Conducted Emission



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1540	40.03	0.07	40.10	65.78	-25.68	peak	
2 *	0.1860	49.60	80.0	49.68	64.21	-14.53	peak	
3	0.1980	41.55	80.0	41.63	63.69	-22.06	peak	
4	0.2580	42.03	0.09	42.12	61.50	-19.38	peak	
5	0.3140	38.15	0.09	38.24	59.86	-21.62	peak	
6	4.6340	34.90	0.27	35.17	56.00	-20.83	peak	

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Site Conduction Room

Phase:

Temperature:

Limit: FCC Class B Conduction(QP)

AC 120V/60Hz Power:

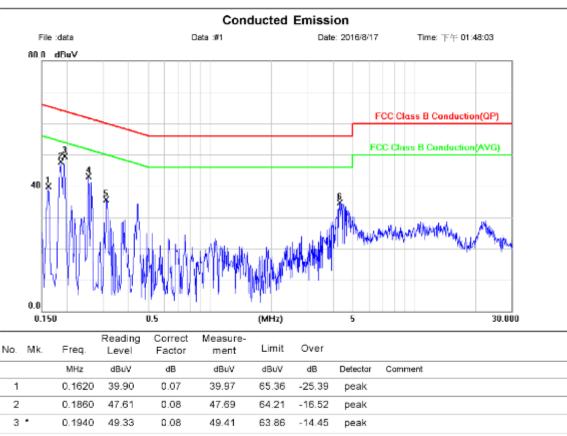
N

Humidity: 85 %

25 10

Mode: Operation mode

Note:



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	39.90	0.07	39.97	65.36	-25.39	peak	
2		0.1860	47.61	80.0	47.69	64.21	-16.52	peak	
3	•	0.1940	49.33	80.0	49.41	63.86	-14.45	peak	
4		0.2540	42.92	0.09	43.01	61.63	-18.62	peak	
5		0.3100	35.63	0.09	35.72	59.97	-24.25	peak	
6		4.3300	34.49	0.26	34.75	56.00	-21.25	peak	

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Page 20 of 56

7. PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

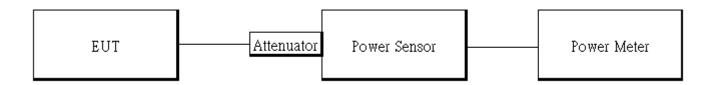
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016			
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016			
EXA Spectrum								
Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017			

7.3 Test Set-up:



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7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

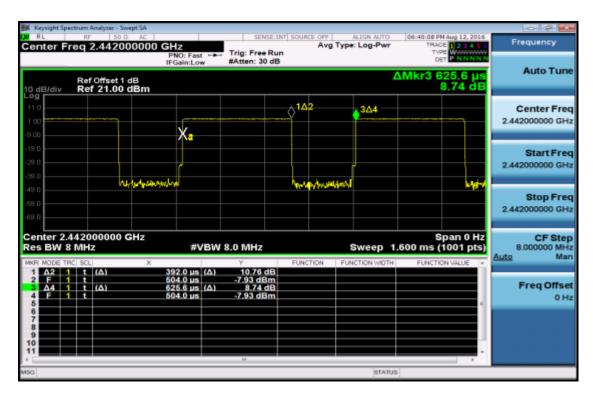
Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

Duty Factor:

	Duty Cycle (%)	Duty Factor (dB)
BLE	62.66	2.03



Duty Cycle Factor:10*log(1/62.66/100)=2.03

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Page 22 of 56

7.5 Measurement Result:

BI F mode:

DLL III	ac.		
СН	Frequency (MHz)	Peak Power Output (dBm)	Required Limit
0	2402	2.78	1 Watt = 30 dBm
20	2442	2.91	1 Watt = 30 dBm
39	2480	2.98	1 Watt = 30 dBm

Tune up tolerance ± dBm

СН	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Required Limit
0	2402	2.45	1 Watt = 30 dBm
20	2442	2.57	1 Watt = 30 dBm
39	2480	2.63	1 Watt = 30 dBm

^{*}Note: Measured by power meter, cable loss as 1 dB that offsets on the power meter in Peak

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^{*}Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter



Page 23 of 56

8. 6DB BANDWIDTH MEASUREMENT

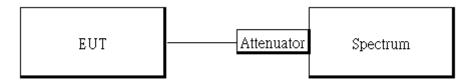
8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum					
Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

8.3 Test Set-up:



8.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
- 5. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. For 99% Bandwidth:
 - Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.
- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all test default channel is completed

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Page 24 of 56

8.5 Measurement Result:

BLE mode

Frequency (MHz)	6dB BW (MHz)	BW (MHz)	Result
2402	0.676	> 0.5	PASS
2442	0.677	> 0.5	PASS
2480	0.677	> 0.5	PASS

Note: Refer to next page for plots.

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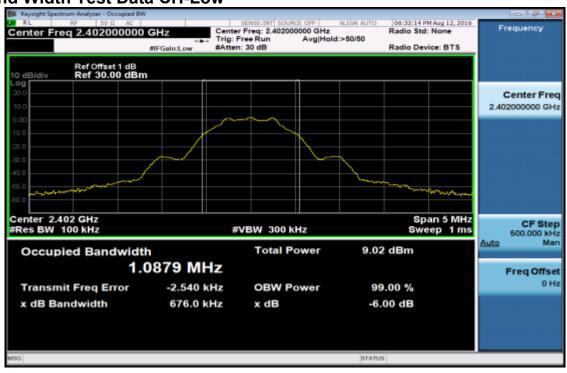
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BLE mode 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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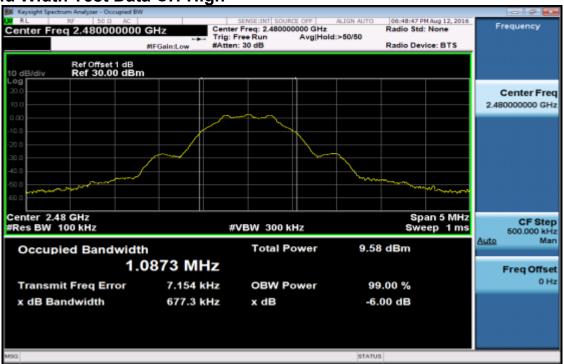
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6dB Band Width Test Data CH-High



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Page 27 of 56

9. CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

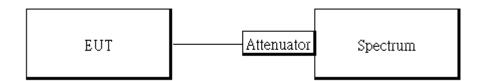
9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Measurement Equipment Used:

_	-				ı
Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EXA Spectrum					
Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

9.3 Test SET-UP:



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t (886-2) 2299-3279

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Page 28 of 56

9.4 Measurement Procedure

Conducted Band Edge:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep =
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW=300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

- 1. Note: Refer to next page spectrum analyzer data chart and tabular data sheets.
- 2. For restricted Band Edge Limit, please refer to section 11.4 of this report for measurement result.

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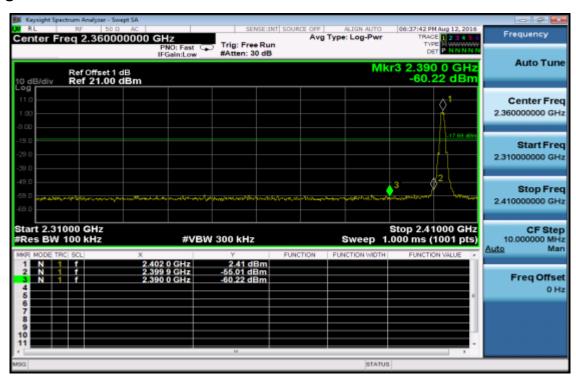
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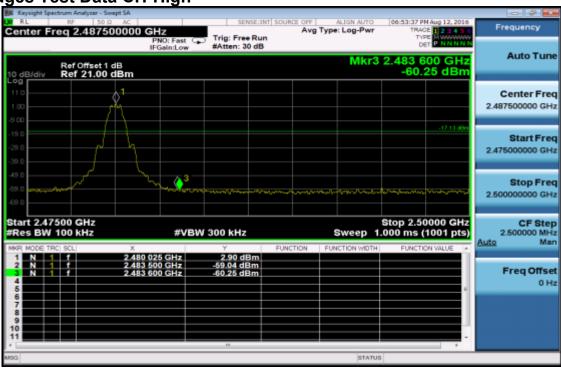
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BLE mode **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High



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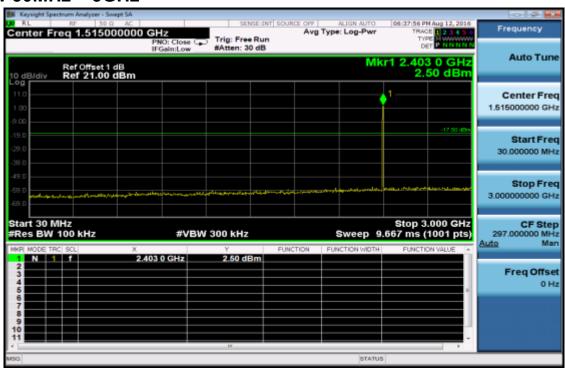
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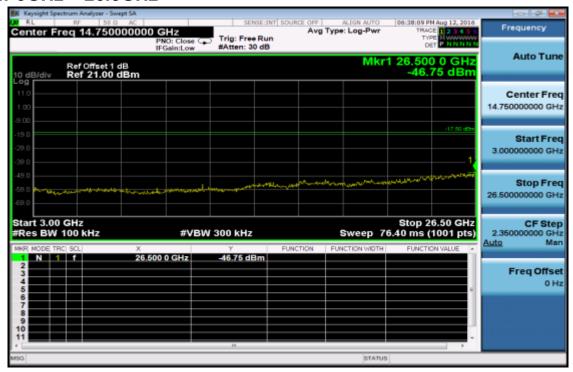
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Conducted Spurious Emission Measurement Result CH-Low 30MHz - 3GHz



CH-Low 3GHz - 26.5GHz



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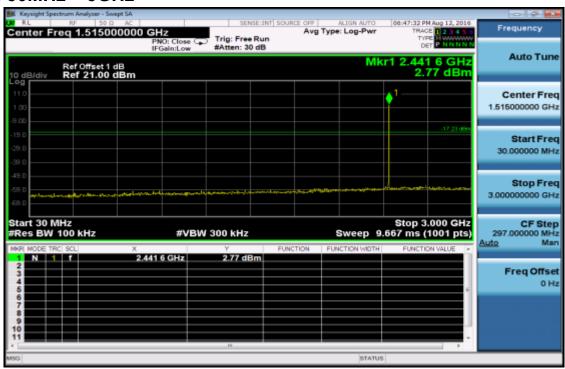
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t (886-2) 2299-3279

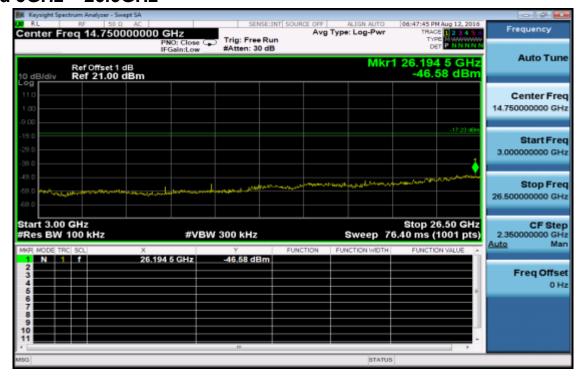
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CH-Mid 30MHz – 3GHz



CH-Mid 3GHz - 26.5GHz



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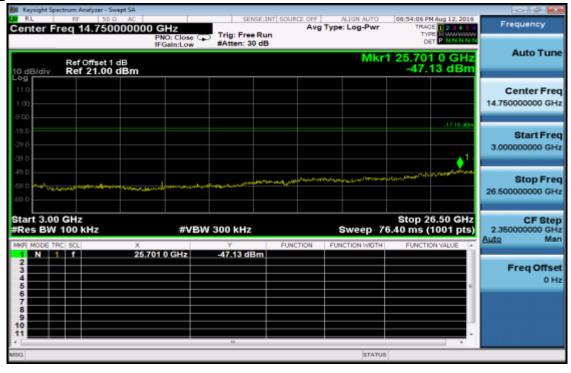
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CH-High 30MHz - 3GHz



CH- High 3GHz - 26.5GHz



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Page 33 of 56

10. RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30	30	30	
30-88	100	3	
88-216	150	3	
216-960	200	3	
Above 960	500	3	

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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Page 34 of 56

10.2 Measurement Equipment Used

SGS SAC-III					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500- B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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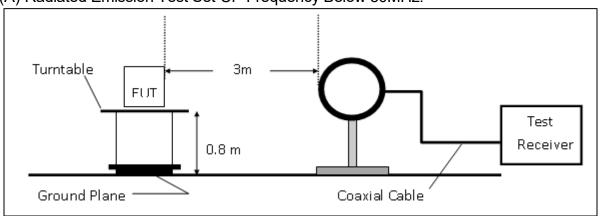
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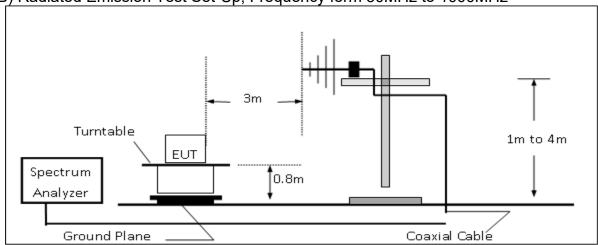


10.3 Test SET-UP

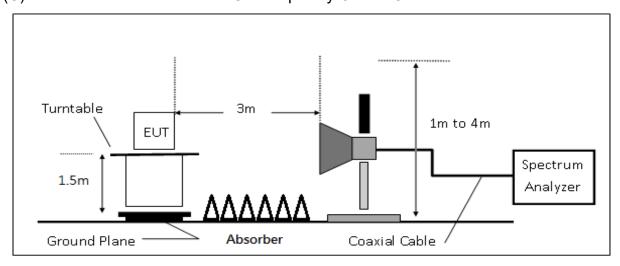
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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Page 36 of 56

10.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 0.8m for frequen-2. cy> 1GHz above ground plan.
- The turn table shall rotate 360 degrees to determine the position of maximum emission level. 3.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 9. Maximum procedure was performed on the six highest emissions to ensure EUT compli-
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 11. Repeat above procedures until all default test channel measured were complete.

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Page 37 of 56

10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	<u> </u>	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. "E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

10.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Page 38 of 56

Radiated Band Edge Measurement Result (BLE mode)

Operation Mode: **BLE** Test Date: 08/16/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	
2390.00	Е	Average	27.18	28.92	-1.74	54.00	-26.82	
2390.00	E	Peak	39.67	41.42	-1.74	74.00	-34.33	

Test Date: Operation Mode: **BLE** 08/16/2016

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Bandedge CH LOW Test Engineer: Tin

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB	
2390.00	Е	Average	27.22	28.96	-1.74	54.00	-26.78	
2390.00	Е	Peak	39.85	41.59	-1.74	74.00	-34.15	

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Page 39 of 56

Operation Mode: **BLE** Test Date: 08/16/2016

Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg_C / 62 RH

Bandedge CH HIGH Test Engineer: Operation Band:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
2483.50	Е	Average	27.32	28.93	-1.62	54.00	-26.68
2483.50	Е	Peak	40.14	41.76	-1.62	74.00	-33.86

Operation Mode: **BLE** Test Date: 08/16/2016

Temp. / Humi. : 23 deg C / 62 RH Fundamental Frequency: 2480 MHz

Operation Band: Bandedge CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL

Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB	
2483.50	Е	Average	27.84	29.46	-1.62	54.00	-26.16	
2483.50	Е	Peak	43.04	44.66	-1.62	74.00	-30.96	

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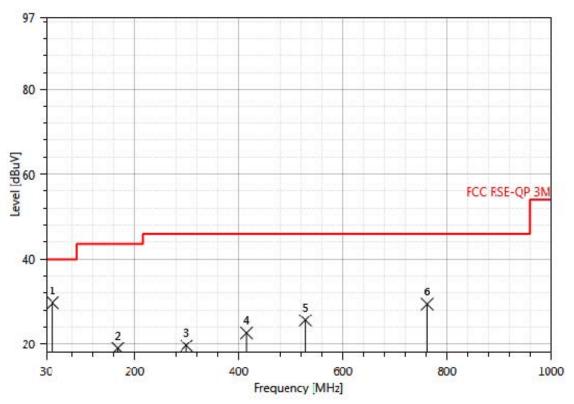
Radiated Spurious Emission Measurement Result (BLE mode) For Frequency form 30MHz to 1000MHz

Operation Mode: Test Date: 08/16/2016 **BLE**

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH LOW Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
42.61	S	Peak	29.70	38.00	-8.30	40.00	-10.30
167.74	S	Peak	18.93	26.39	-7.46	43.50	-24.57
299.66	S	Peak	19.60	25.53	-5.93	46.00	-26.40
415.09	S	Peak	22.62	25.83	-3.21	46.00	-23.38
527.61	S	Peak	25.56	26.88	-1.32	46.00	-20.44
762.35	S	Peak	29.40	26.52	2.89	46.00	-16.60

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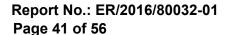
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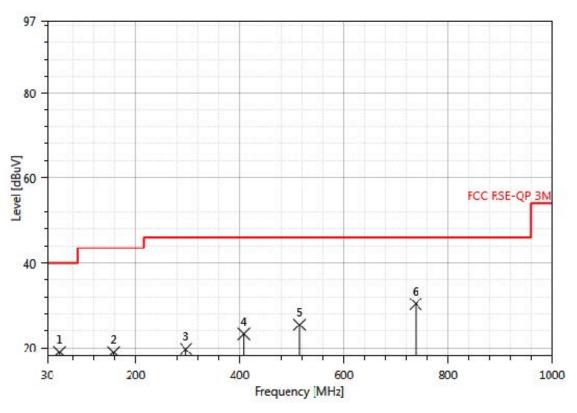




Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH LOW Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
54.25	S	Peak	19.01	26.83	-7.82	40.00	-20.99
158.04	S	Peak	18.97	26.41	-7.45	43.50	-24.53
296.75	S	Peak	19.71	25.69	-5.98	46.00	-26.29
408.30	S	Peak	23.23	26.77	-3.53	46.00	-22.77
515.00	S	Peak	25.43	27.37	-1.94	46.00	-20.57
738.10	S	Peak	30.31	28.42	1.89	46.00	-15.69

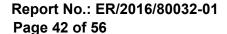
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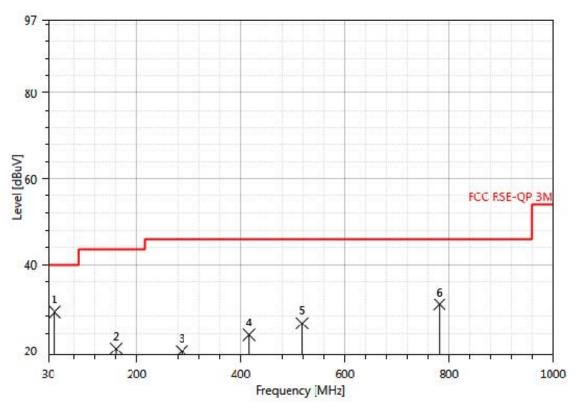




Fundamental Frequency: 2442 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH MID Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
42.61	S	Peak	29.01	37.30	-8.30	40.00	-10.99
160.95	S	Peak	20.47	27.91	-7.44	43.50	-23.03
287.05	S	Peak	19.88	26.07	-6.19	46.00	-26.12
416.06	S	Peak	23.66	26.93	-3.27	46.00	-22.34
517.91	S	Peak	26.37	28.20	-1.83	46.00	-19.63
781.75	S	Peak	30.76	28.00	2.76	46.00	-15.24

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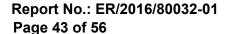
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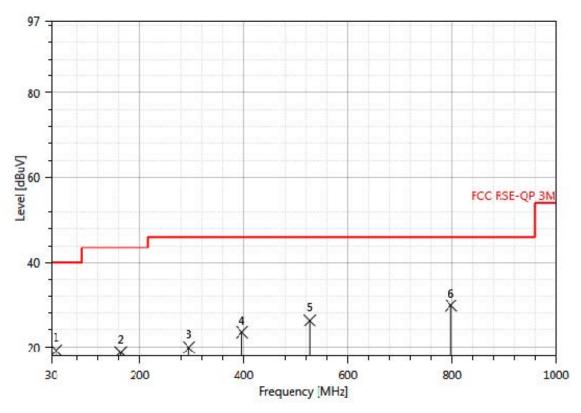




Fundamental Frequency: 2442 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH MID Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
39.70	S	Peak	19.22	27.78	-8.56	40.00	-20.78
163.86	S	Peak	18.82	26.26	-7.44	43.50	-24.68
294.81	S	Peak	19.93	25.95	-6.02	46.00	-26.07
396.66	S	Peak	23.46	27.57	-4.10	46.00	-22.54
526.64	S	Peak	26.31	27.75	-1.44	46.00	-19.69
798.24	S	Peak	29.82	26.72	3.11	46.00	-16.18

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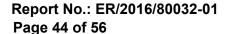
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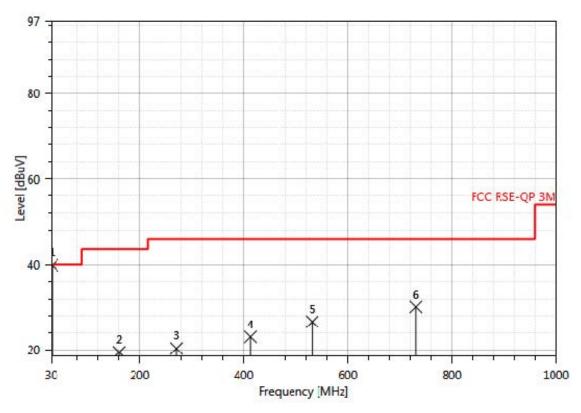




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
31.94	S	Peak	39.85	48.96	-9.11	40.00	-0.15
160.95	S	Peak	19.48	26.91	-7.44	43.50	-24.02
270.56	S	Peak	20.36	27.25	-6.89	46.00	-25.64
413.15	S	Peak	23.06	26.45	-3.39	46.00	-22.94
531.49	S	Peak	26.60	28.17	-1.57	46.00	-19.40
730.34	S	Peak	30.01	28.34	1.67	46.00	-15.99

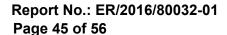
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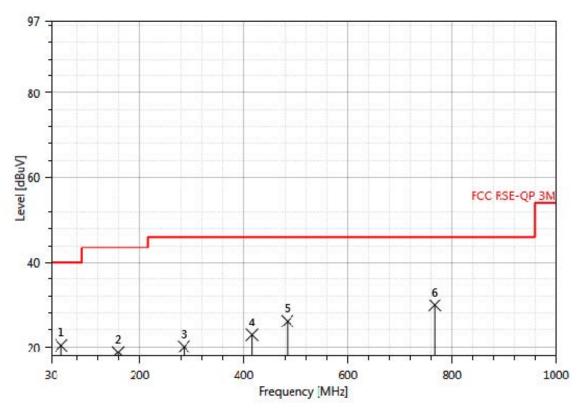




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
49.40	S	Peak	20.42	28.17	-7.74	40.00	-19.58
159.01	S	Peak	18.80	26.18	-7.38	43.50	-24.70
285.11	S	Peak	20.09	26.33	-6.24	46.00	-25.91
416.06	S	Peak	22.87	26.14	-3.27	46.00	-23.13
483.96	S	Peak	26.14	28.60	-2.46	46.00	-19.86
767.20	S	Peak	29.87	26.73	3.14	46.00	-16.13

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Page 46 of 56

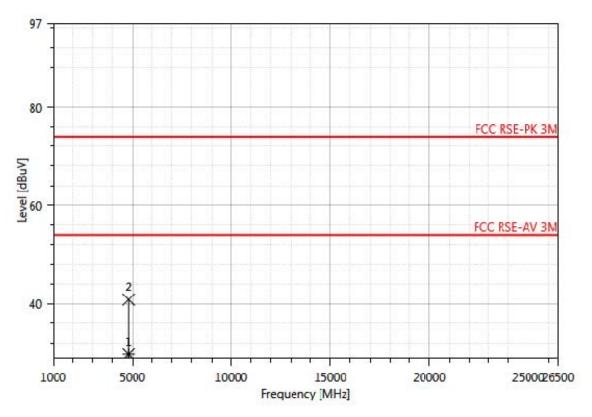
Radiated Spurious Emission Measurement Result (BLE mode) For Frequency above 1GHz

Operation Mode: Test Date: 08/16/2016 **BLE**

Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg_C / 62 RH

Operation Band: Tx CH LOW Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Free	q. ۱	lote	Decetor	Actual	Spectrum	Factor		Limit	Marg	in
			Mode	Reading Level	FS		(@3m		
MH	z F/I	H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dl	Bu V/m	dB	
4804.	00	Н	Average	29.71	24.79	4.92	5	54.00	-24.2	9
4804.	00	Н	Peak	40.85	35.93	4.92	7	74.00	-33.1	5

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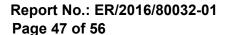
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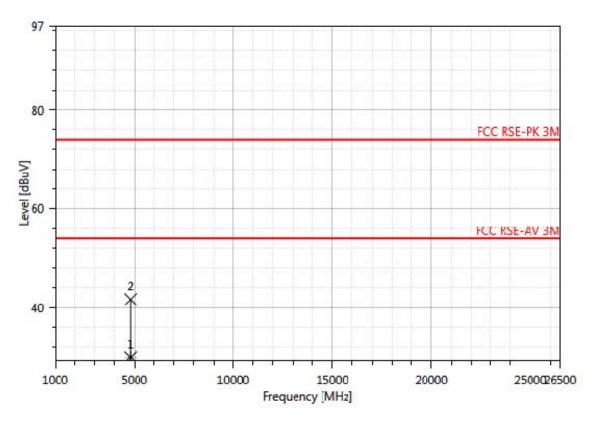




Fundamental Frequency: 2402 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH LOW Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
4804.00	Н	Average	29.95	25.03	4.92	54.00	-24.05
4804.00	Н	Peak	41.66	36.74	4.92	74.00	-32.34

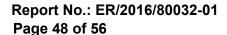
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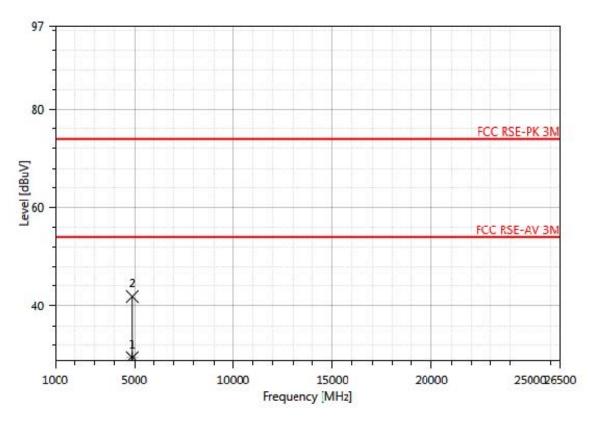




Fundamental Frequency: 2442 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH MID Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
 4884.00	Н	Average	29.55	24.36	5.19	54.00	-24.45
4884.00	Н	Peak	41.94	36.75	5.19	74.00	-32.06

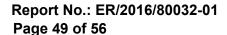
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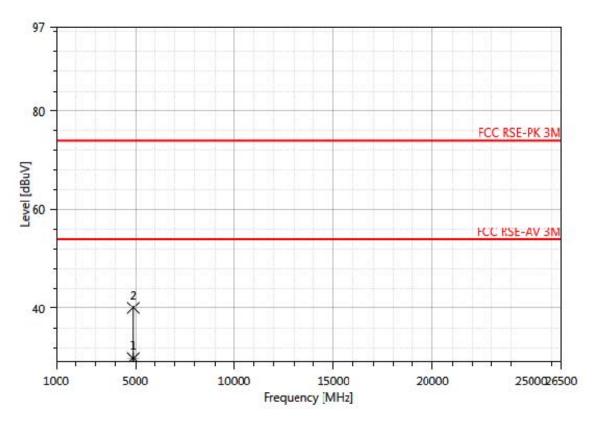




Fundamental Frequency: 2442 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH MID Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



	Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
			Mode	Reading Level	FS		@3m		
	MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB	
_	4884.00	Н	Average	29.90	24.71	5.19	54.00	-24.10	
	4884.00	Н	Peak	40.11	34.91	5.19	74.00	-33.89	

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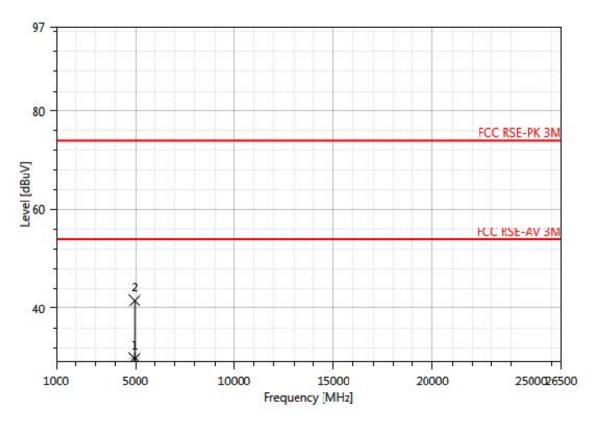




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB	
4960.00	Н	Average	29.91	24.62	5.29	54.00	-24.09	
4960.00	Н	Peak	41.62	36.33	5.29	74.00	-32.38	

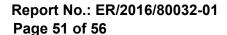
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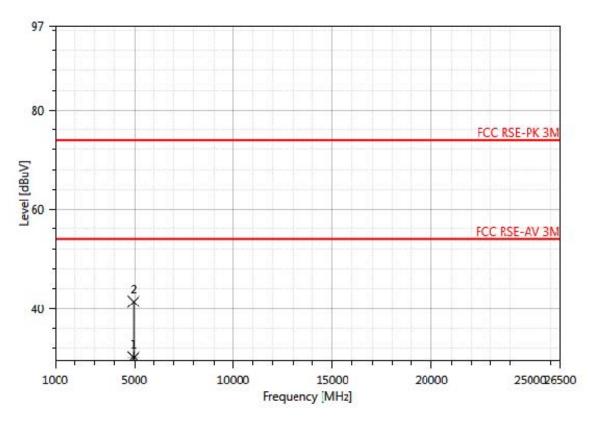




Fundamental Frequency: 2480 MHz Temp. / Humi. : 23 deg C / 62 RH

Operation Band: Tx CH HIGH Test Engineer:

EUT Pol.: H Plane Measurement Antenna Pol.: HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBu V/m	dB
4960.00	Н	Average	30.16	24.87	5.29	54.00	-23.84
4960.00	Н	Peak	41.37	36.08	5.29	74.00	-32.63

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Page 52 of 56

11. PEAK POWER SPECTRAL DENSITY

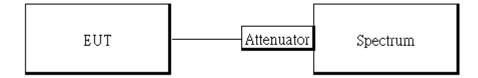
11.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
EXA Spectrum						
Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017	
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017	

11.3 Test Set-up:



11.4 Measurement Procedure:

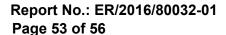
- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz & VBW = 10 kHz.
- 5. For defining Restricted Band Edge Limit: Set the RBW = 100kHz & VBW = 300 kHz.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.

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11.5 Measurement Result:

RI F mode

BLL IIIOGE							
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result				
2402	-12.37	8	PASS				
2442	-12.04	8	PASS				
2480	-11.88	8	PASS				

NOTE: cable loss as 1dB that offsets in the spectrum

Band Edge Limit

Dana Lago Liniit						
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit = PSD - 20dB (dBm)				
2402	2.31	-17.69				
2480	2.87	-17.13				

NOTE: cable loss as 1dB that offsets in the spectrum

NOTE: Refer to next page for plots.

BLE mode

Power Spectral Density Test Plot (CH-Low)



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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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Page 56 of 56

12. ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

An embedded-in antenna design is used.

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

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