

Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 1 of 77

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

0F

Product Name: Telepathy Jumper

Brand Name: Telepathy

Model No.: **TPC007-B**

Model Difference: N/A

FCC ID: **2AF83TPC007B**

Report No.: E2/2015/90055

Issue Date: Oct.01, 2015

FCC Rule Part: §15.247, Cat: DSS

Telepathy Japan Inc.

Nihonbashi Ningyocho 1-7-10, **Prepared for:**

Tsukakoshi bldg. 8F,Chuo-ku,Tokyo

103-0013

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

No.2, Keji 1st Rd., Guishan District,

Taoyuan City, Taiwan 333





Testing Laboratory

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Page 2 of 77

VERIFICATION OF COMPLIANCE

Applicant: Telepathy Japan Inc.

Nihonbashi Ningyocho 1-7-10, Tsukakoshi bldg. 8F, Chuo-ku, Tokyo

103-0013

Product Name: Telepathy Jumper

Brand Name: Telepathy Model No.: TPC007-B

Model Difference: N/A

FCC ID: 2AF83TPC007B **Report Number:** E2/2015/90055

Date of test: Sep. 16, 2015 ~ Sep. 30, 2015

Date of EUT Received: Sep. 16, 2015

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.

Test By:	Aken Huang	Date:	Oct.01, 2015
Prepared By:	Aken Huang / Engineer Tiffany Kao	Date:	Oct.01, 2015
Approved By:	Jim Chang / Asst. Manager	Date:	Oct.01, 2015

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 3 of 77

Revision History

Report Number	Revision	Description	Issue Date
E2/2015/90055	Rev.00	Initial creation of document	Oct.01, 2015

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 4 of 77

Table of Contents

1.	GEN	ERAL INFORMATION	7
	1.1.	Product description	7
	1.2.	Product Feature of Equipment Under Test	8
	1.3.	Test Methodology of Applied Standards	9
	1.4.	Test Facility	9
	1.5.	Special Accessories	9
	1.6.	Equipment Modifications	9
2.	SYS	TEM TEST CONFIGURATION	10
	2.1.	EUT Configuration	10
	2.2.	EUT Exercise	10
	2.3.	Test Procedure	10
	2.4.	Measurement Results Explanation Example	10
	2.5.	Configuration of Tested System	11
3.	SUM	IMARY OF TEST RESULTS	13
4.	DES	CRIPTION OF TEST MODES	14
	4.1.	Operated in 2400 ~ 2483.5MHz Band	14
	4.2.	The Worst Test Modes and Channel Details	15
5.	MEA	SUREMENT UNCERTAINTY	16
6.	CON	IDUCTED EMISSION TEST	17
	6.1.	Standard Applicable	17
	6.2.	Measurement Equipment Used	17
	6.3.	EUT Setup	17
	6.4.	Test SET-UP (Block Diagram of Configuration)	18
	6.5.	Measurement Procedure	18
	6.6.	Measurement Result	18
7.	PEA	K OUTPUT POWER MEASUREMENT	21
	7.1.	Standard Applicable	21
	7.2.	Measurement Equipment Used	21
	7.3.	Test Set-up:	21
	7.4.	Measurement Procedure:	21
	7.5.	Measurement Result	22
8.	20dB	B BANDWIDTH MEASUREMENT	23
	8.1.	Standard Applicable	23
	8.2.	Measurement Equipment Used	23

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 5 of 77

	8.3.	Test Set-up	23
	8.4.	Measurement Procedure	24
	8.5.	Measurement Result	25
9.	CONI	DUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	31
	9.1.	Standard Applicable	31
	9.2.	Measurement Equipment Used	31
	9.3.	Test SET-UP	31
	9.4.	Measurement Procedure	32
	9.5.	Measurement Result	32
10.	RADI	ATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	38
	10.1.	Standard Applicable	38
	10.2.	Measurement Equipment Used	39
	10.3.	Test SET-UP	40
		Measurement Procedure	
	10.5.	Field Strength Calculation	42
	10.6.	Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz	42
	10.7.	Measurement Result	42
11.	FREC	QUENCY SEPARATION	59
	11.1.	Standard Applicable	59
	11.2.	Measurement Equipment Used	59
	11.3.	Test Set-up	59
	11.4.	Measurement Procedure	59
	11.5.	Measurement Result	60
12.	NUMI	BER OF HOPPING FREQUENCY	61
	12.1.	Standard Applicable	61
	12.2.	Measurement Equipment Used	61
	12.3.	Test Set-up	61
	12.4.	Measurement Procedure	61
	12.5.	Measurement Result	61
13.	TIME	OF OCCUPANCY (DWELL TIME)	63
	13.1.	Standard Applicable	63
	13.2.	Measurement Equipment Used	63
	13.3.	Test Set-up	63
	13 4	Measurement Procedure	64

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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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 6 of 77

	13.5.	Tabular Result of the Measurement	65
	13.6.	Measurement Result	67
14.	ANTE	NNA REQUIREMENT	77
		Standard Applicable	
	14.2.	Antenna Connected Construction	77
РН	OTOG	RAPHS OF SET UP	78
РΗ	OTOG	RAPHS OF EUT	81

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 7 of 77

GENERAL INFORMATION

1.1. Product description

General:

Jeneral.	1		
Product Name:	Telepathy Jumper		
Brand Name:	Telepathy	,	
Model No.:	TPC007-E	3	
Model Difference:	N/A		
Product SW/HW version:	N/A / B		
Radio SW/HW version:	N/A / N/A		
Test SW Version:	N/A		
RF power setting in TEST SW:	N/A		
Data Cable:	Model No.: N/A, Supplier: N/A		
	3.65V from rechargeable battery or 5Vdc from AC/DC Adapter		
Power Supply:	Battery:	Model No.: US633346E1S, Supplier: SONY	
	Adapter: Model No.: PSAA10A-050Q, Supplier: JET		

Bluetooth BR+EDR:

Bluetooth Version:	V4.0 dual mode + EDR	
Channel number:	79 channels	
Modulation type:	Frequency Hopping Spread Spectrum	
Transmit Power:	4.73dBm	
Frequency Range:	2.402GHz – 2.480GHz	
Dwell Time:	<= 0.4s	
Antenna Designation:	PIFA Antenna, Gain:3.0dBi	

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 8 of 77

1.2. Product Feature of Equipment Under Test

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

	Product Feature					
Product Name:	Telepathy Jumper					
Brand Name:	Telepathy					
Model No.:	TPC007-B					
Model Difference:	N/A					
FCC ID:	2AF83TPC007B					
Wi-Fi Specification	802.11b/g/n					
Bluetooth Version	V4.0 dual mode					

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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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 9 of 77

1.3. Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC Public Notice DA 00-705 Measurement Guidelines

ANSI C63.10:2013

Note:

- 1. All test items have been performed and record as per the above standards.
- The composite system is compliance with FCC Subpart B is authorized under 2. a DoC procedure.

1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5. Special Accessories

There is no special accessory used while test was conducted.

1.6. Equipment Modifications

There was no modification incorporated into the EUT.

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 10 of 77

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 and attenuator factor. Following shows an offset computation example with cable loss 1.6dB and splitter 3.24dB splitter. Offset = RF cable loss (dB)+ splitter(dB) = 1.6 + 3.24 = 4.84(dB)

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 11 of 77

2.5. Configuration of Tested System

Fig. 2-1 Radiated Emission

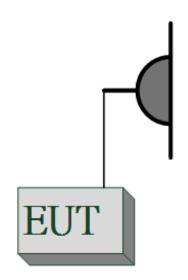
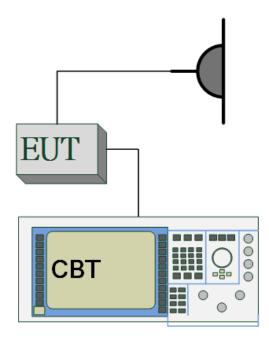


Fig. 2-2 Conducted Emission



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 12 of 77

Fig. 2-3 AC Power Line Conducted Emission

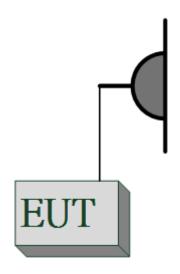


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Model No.	Series No.	Data Cable	Power Cord
1.	BT Test Software	N/A	N/A	N/A	N/A	N/A

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 13 of 77

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)(1)	20dB Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency	Compliant
§15.247(a)(1)(iii)	Time of Occupancy	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 14 of 77

4. DESCRIPTION OF TEST MODES

4.1. Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

CH	FREQUENCY	CH	FREQUENCY	СН	FREQUENCY	СН	FREQUENCY
0	2402 MHz	20	2422 MHz	40	2442 MHz	70	2462 MHz
1	2403 MHz	21	2423 MHz	41	2443 MHz	71	2463 MHz
2	2404 MHz	22	2424 MHz	42	2444 MHz	72	2464 MHz
3	2405 MHz	23	2425 MHz	43	2445 MHz	73	2465 MHz
4	2406 MHz	24	2426 MHz	44	2446 MHz	74	2466 MHz
5	2407 MHz	25	2427 MHz	45	2447 MHz	75	2467 MHz
6	2408 MHz	26	2428 MHz	46	2448 MHz	76	2468 MHz
7	2409 MHz	27	2429 MHz	47	2449 MHz	77	2469 MHz
8	2410 MHz	28	2430 MHz	48	2450 MHz	78	2470 MHz
9	2411 MHz	29	2431 MHz	49	2451 MHz	79	2471 MHz
10	2412 MHz	30	2432 MHz	50	2452 MHz	70	2472 MHz
11	2413 MHz	31	2433 MHz	51	2453 MHz	71	2473 MHz
12	2414 MHz	32	2434 MHz	52	2454 MHz	72	2474 MHz
13	2415 MHz	33	2435 MHz	53	2455 MHz	73	2475 MHz
14	2416 MHz	34	2436 MHz	54	2456 MHz	74	2476 MHz
15	2417 MHz	35	2437 MHz	55	2457 MHz	75	2477 MHz
16	2418 MHz	36	2438 MHz	56	2458 MHz	76	2478 MHz
17	2419 MHz	37	2439 MHz	57	2459 MHz	77	2479 MHz
18	2420 MHz	38	2440 MHz	58	2460 MHz	78	2480 MHz
19	2421 MHz	39	2441 MHz	59	2461 MHz		

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 15 of 77

4.2. The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- Investigation has been done on all the possible configurations for searching the worst

RADIATED EMISSION TEST:

VADIATED ENITOGION TEOT.							
RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE	ANTENNA PORT		
Bluetooth	0 to 78	0,39,78	8-DPSK	3DH5	MAIN		
	RADIATED	EMISSION TES	ST (ABOVE 1 GH	z)			
MODE AVAILABLE TESTED MODULATION PACKET ANTER							
Bluetooth	0 to 78	0,39,78	8-DPSK	3DH5	MAIN		

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

ANTENNA PORT CONDUCTED MEASUREMENT:

		CONDUCTED	TEST		
	Peak Ou	tput Power, 20	dB Band Width		
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE	ANTENNA PORT
	0 to 78	0,39,78	GFSK	DH5	MAIN
Bluetooth	0 to 78	0,39,78	π/4-DQPSK	2DH5	MAIN
	0 to 78	0,39,78	8-DPSK	3DH5	MAIN
		Band Edg	je		
Bluetooth	0 to 78	0,78	GFSK	DH5	MAIN
		Frequency Sep	aration		
Bluetooth	0 to 78	0,1,2	GFSK	DH5	MAIN
	Num	ber of hopping	g frequency		
Bluetooth	0 to 78	0 to 78	GFSK	DH5	MAIN
	Time	of Occupancy	(Dwell time)		
Bluetooth	0 to 78	0,39,78	GFSK	DH1/DH3/DH5	MAIN
Bluetooth	0 to 78	39	π/4-DQPSK	DH1/DH3/DH5	MAIN
Bluetooth	0 to 78	39	8-DPSK	DH1/DH3/DH5	MAIN

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 16 of 77

5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
20dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Frequency Separation	+/- 51.33 Hz
Number of hopping frequency	+/- 51.33 Hz
Time of Occupancy	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

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

	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
Measurement uncertainty (Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
(1 Oldrization : 110112011tal)	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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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 17 of 77

CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

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	ESCI 7	100950	12/12/2014	12/11/2015			
Coaxial Cables	N/A	N30N30-1042-150c m	N/A	01/06/2015	01/07/2016			
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016			
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016			
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.			

6.3. EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 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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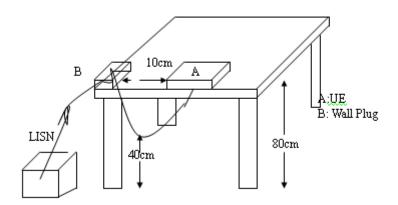
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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 18 of 77

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 frequency measured were complete.

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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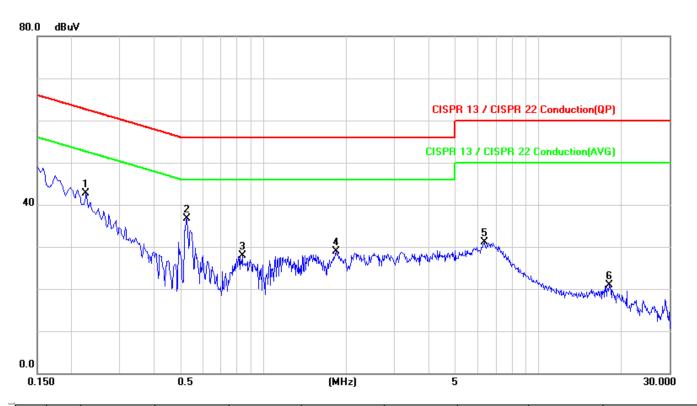


Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 19 of 77

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Sep. 21, 2015	
Temperature:	26 Humidity: 54 %			Test By:	Aken
				Phase:	L1



No.←	Mk	Freq.€	Reading€	Factor€	Measurement-	Limit€	Over↔	Detector√	Comment €
42	47	(MHz)4 [□]	dBuV⇔	(dB)√	(dBuV)₽	(dBuV)↔	(dB)√ [□]	4	4
1↔	47	0.2260₽	42.61₽	0.08₽	42.69₽	62.60₽	-19.91₽	peak₽	4
2↔	*47	0.5260₽	36.49₽	0.23₽	36.72₽	56.00₽	-19.28₽	peak₽	42
3↔	٠	0.8380₽	27.48₽	0.36₽	27.84₽	56.00₽	-28.16₽	peak∉	÷.
4+2	47	1.8300₽	28.25₽	0.56₽	28.81₽	56.00₽	-27.19₽	peak₽	42
54□	47	6.3540₽	30.50₽	0.64₽	31.14₽	60.00₽	-28.86₽	peak∉	÷
64□	٠	18.1220₽	20.23₽	0.58₽	20.81₽	60.00₽	-39.19₽	peak∉	÷.

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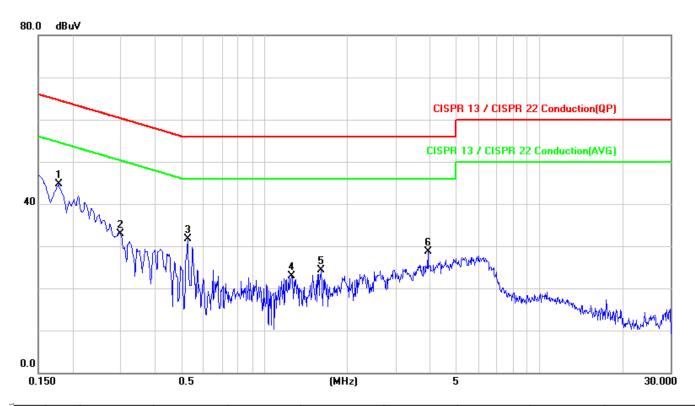
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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 20 of 77



No.	Mk	Freq.	Reading€	Factor€	Measurement-	Limit+ ³	Over√	Detector+	Comment€
43	47	(MHz)√	dBuV₽	(dB)√	(dBuV)₽	(dBuV)4□	(dB)↔	₽	₽
1↔	*47	0.1780↔	44.50₽	0.14↔	44.64₽	64.58₽	-19.94₽	peak∉	₽
2↔	47	0.2987₽	32.81₽	0.17₽	32.98₽	60.28₽	-27.30₽	peak⊕	₽
3↔	42	0.5260₽	31.44₽	0.28₽	31.72₽	56.00₽	-24.28₽	peak∗³	₽
44⊃	47	1.2540₽	22.33₽	0.52₽	22.85₽	56.00₽	-33.15₽	peak∗□	₽
54□	42	1.6020₽	23.73₽	0.56₽	24.29₽	56.00₽	-31.71₽	peak₽	₽
64□	47	3.9260₽	28.12₽	0.66₽	28.78₽	56.00₽	-27.22₽	peak₽	₽

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Page 21 of 77

7. PEAK OUTPUT POWER MEASUREMENT

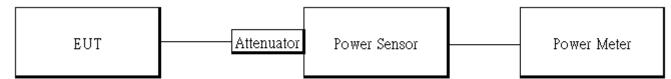
7.1. Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 -2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

7.2. Measurement Equipment Used

modeli omenic Equipment ecou									
Conducted Emission Test Site									
EQUIPMENT MFR MODEL SERIAL LAST									
TYPE		NUMBER	NUMBER	CAL.					
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016				
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016				
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015				
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015				
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015				
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015				

7.3. Test Set-up:



7.4. Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
- 4. Record the max. reading.
- 5. Repeat above procedures until all default test channel is completed.

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 22 of 77

7.5. Measurement Result

1M BR mode:

Channel	Frequency (MHz)	Output Power (dBm)	Output Power	Limit (mW)
0	2402.00	3.75	2.37137	1000
39	2441.00	3.87	2.43781	1000
78	2480.00	3.94	2.47742	1000

2M EDR mode:

Channel	Frequency (MHz)	Output Power (dBm)	Output Power	Limit (mW)
0	2402.00	3.91	2.46037	125
39	2441.00	4.15	2.60016	125
78	2480.00	4.28	2.67917	125

3M EDR mode:

Channel	Frequency	Output Power	Output	Limit
Chamici	(MHz)	(dBm)	Power	(mW)
0	2402.00	4.35	2.72270	125
39	2441.00	4.53	2.83792	125
78	2480.00	4.73	2.97167	125

NOTE: cable loss as 4.84dB that offsets in the spectrum

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 23 of 77

8. 20dB BANDWIDTH MEASUREMENT

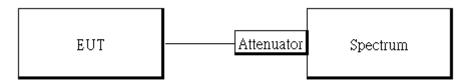
8.1. Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

8.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

8.3. Test Set-up



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 24 of 77

8.4. Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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 the spectrum analyzer as RBW=10 kHz (1 % of 20 dB Bandwidth.), VBW = 30 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
- 5. Mark the peak frequency and –20dB (upper and lower) frequency.
- 6. Max reading. Repeat above procedures until all test default channel is completed

NOTE:

1. For the plot of bandwidth measurement, the marker of the 20dB BW is arrow-mark

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Page 25 of 77

8.5. Measurement Result

GFSK

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)			
0	2402	0.879			
39	2441	0.921			
78	2480	0.9212			

$\pi/4$ -DOPSK

Channel	Channel	20 dB Bandwidth (MHz)	2/3 Bandwidth
0	2402	1.32	0.88
39	2441	1.3	0.87
78	2480	1.3	0.87

8-DPSK

Channel	Channel	20 dB Bandwidth (MHz)	2/3 Bandwidth
0	2402	1.25	0.83
39	2441	1.26	0.84
78	2480	1.26	0.84

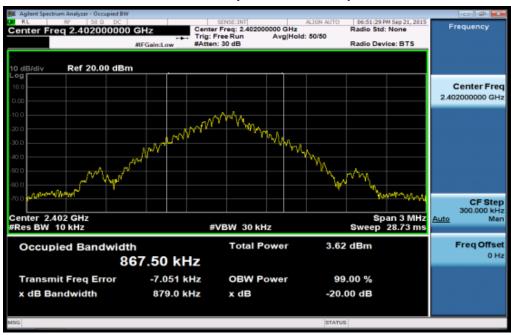
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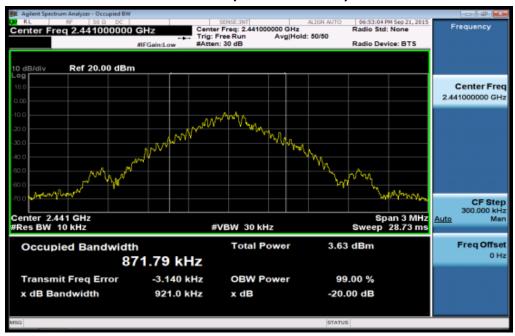
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Page 26 of 77

20dB Band Width Test Data CH-Low (GFSK mode)



20dB Band Width Test Data CH-Mid (GFSK mode)



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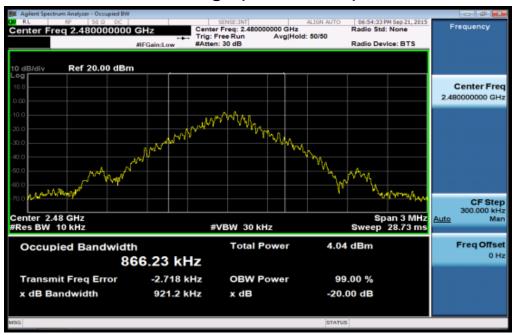
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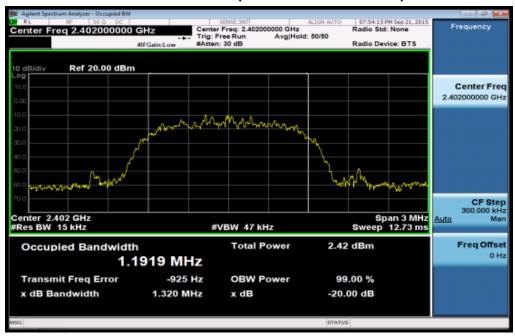
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 27 of 77

20dB Band Width Test Data CH-High (GFSK mode)



20dB Band Width Test Data CH-Low (π/4-DQPSK mode)



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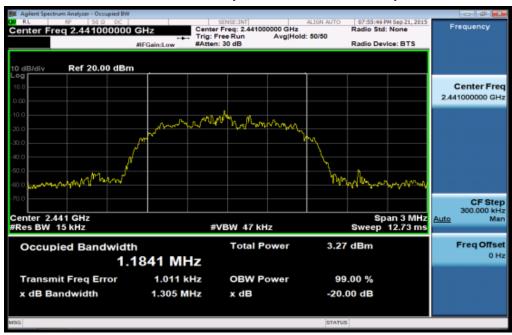
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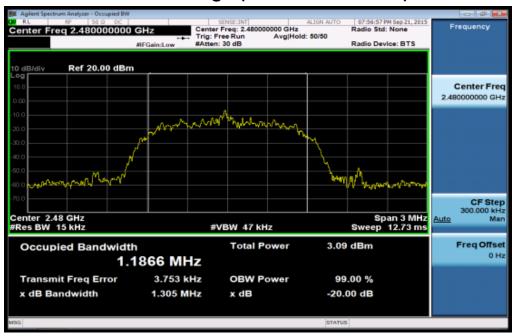
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 28 of 77

20dB Band Width Test Data CH-Mid (π/4-DQPSK mode)



20dB Band Width Test Data CH-High (π/4-DQPSK mode)



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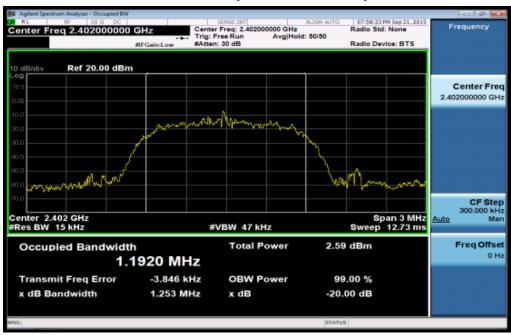
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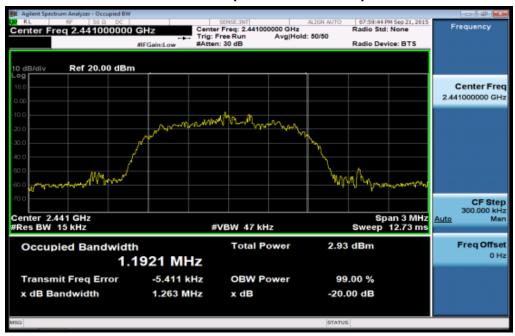
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 29 of 77

20dB Band Width Test Data CH-Low (8-DPSK mode)



20dB Band Width Test Data CH-Mid (8-DPSK mode)



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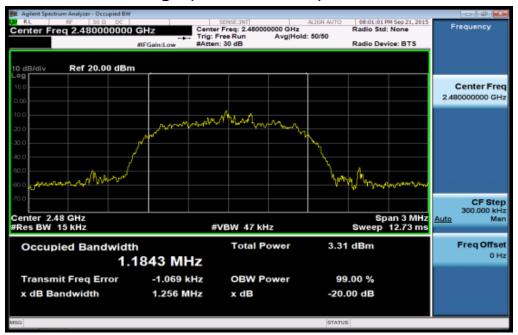
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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 30 of 77

20dB Width Test Data CH-High (8-DPSK mode)



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Page 31 of 77

9. CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

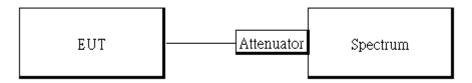
9.1. Standard Applicable

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

mode and monte a quipment a cour					
Conducted Emission Test Site					
EQUIPMENT MFR MODEL SERIAL LAST C			CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

9.3. Test SET-UP



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 32 of 77

9.4. Measurement Procedure

Conducted Band Edge:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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.

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	S .	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

9.5. Measurement Result

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

1. The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 33 of 77

Band Edges Test Data CH-Low (Hopping mode)



Band Edges Test Data CH-High



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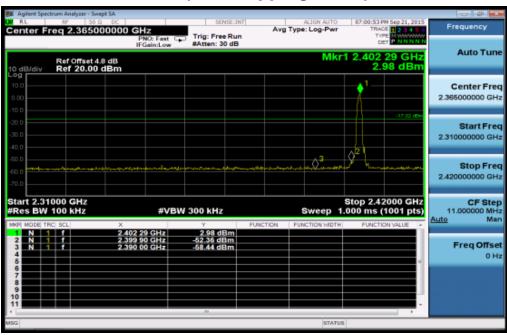
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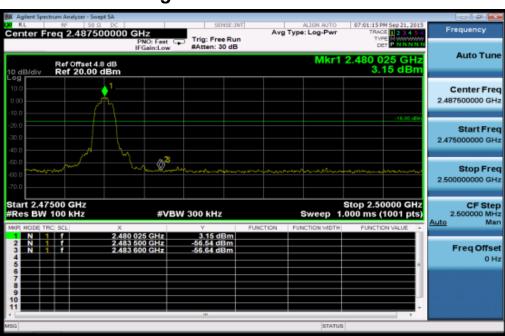
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 34 of 77

Band Edges Test Data CH-Low (Non-Hopping mode)



Band Edges Test Data CH-High



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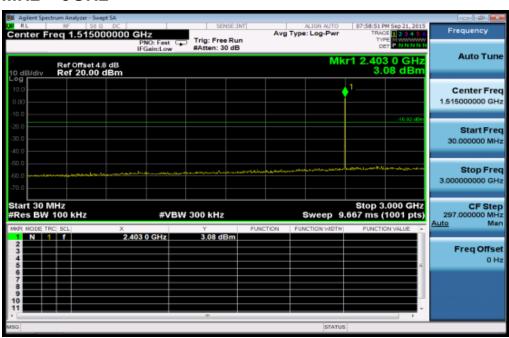
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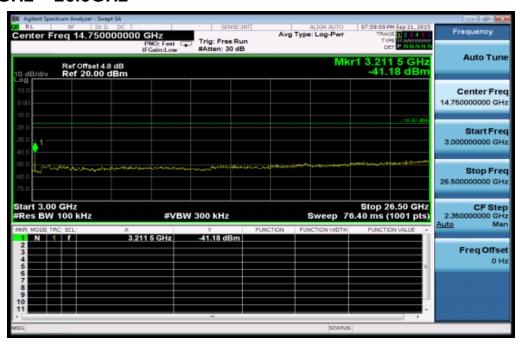
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 35 of 77

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



Ch Low 3GHz - 26.5GHz



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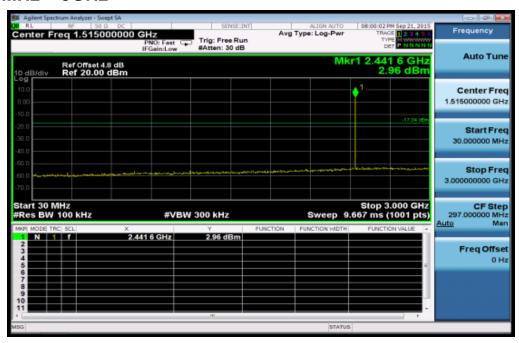
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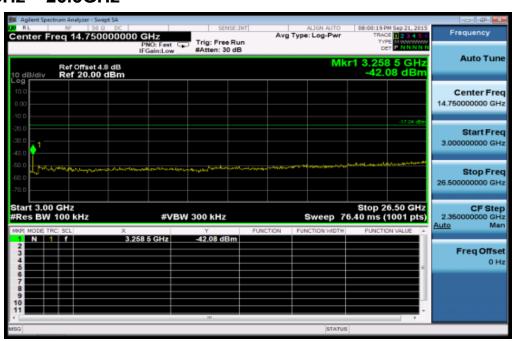
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Page 36 of 77

Ch Mid 30MHz - 3GHz



Ch Mid 3GHz - 26.5GHz



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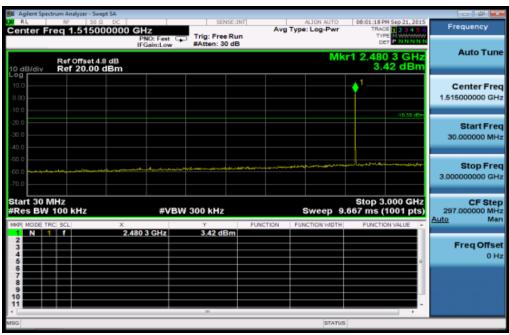
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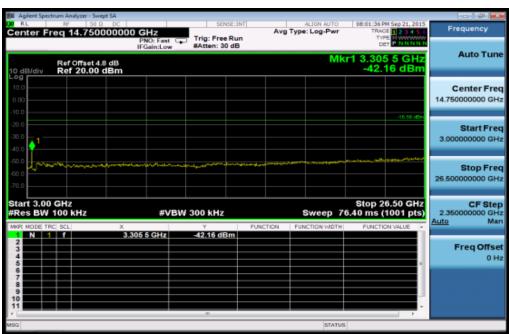
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 37 of 77

Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 38 of 77

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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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 39 of 77

10.2. Measurement Equipment Used

966 Chamber									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016				
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2014	12/08/2015				
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015				
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015				
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015				
Horn Antenna	ETS-Lindgren	3160-10	00117783	11/13/2014	11/12/2015				
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015				
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015				
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015				
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015				
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015				
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015				
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015				
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015				
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015				
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015				
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015				
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016				
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016				
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016				
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.				
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.				
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.				
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.				

NOTE: N.C.R refers to Not Calibrated Required.

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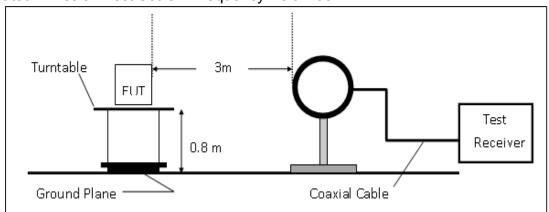


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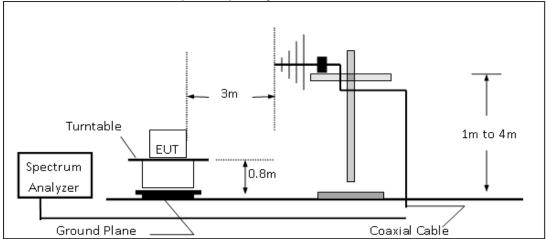
Page 40 of 77

10.3. **Test SET-UP**

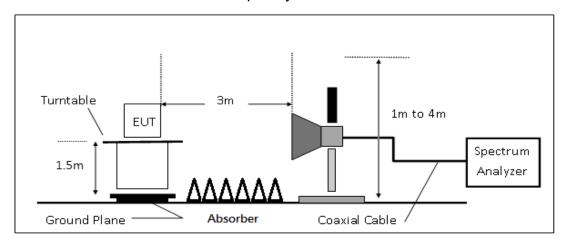
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 41 of 77

10.4. **Measurement Procedure**

Radiated Emission

- 1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 0.8m for frequency> 1GHz above ground plan.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Use the follow spectrum analyzer setting:
 - (1) Span = wide enough to fully capture the emission being measured
 - (2) RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, VBW \ge RBW, Sweep = auto, Detector function = peak, Trace = max hold
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c)

Duty Cycle = On time/100 milliseconds

On time = N1*L1=N2*L2+...+N(n-1)*LN(n-1)+N(n)*L(n)

Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log (duty Cycle)

- 6. 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.
- 7. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 8. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 9. Repeat above procedures until all frequency of the interest measured were complete.

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Page 42 of 77

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	9	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

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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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 43 of 77

Radiated Band Edge Measurement Result: (Hopping Mode)

Operation Mode: BT EDR Hopping Test Date: 2015/9/24

Fundamental Frequency: 2402 MHz 22.7deg C/57RH Temp. / Humi.:

Operation Band: **BE CH LOW** Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Vertical

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2390.00	E	Peak	53.34	-6.84	46.50	74	-27.50
2390.00	E	Average	40.28	-6.84	33.44	54	-20.56

Operation Mode: BT EDR Hopping Test Date: 2015/9/24

Fundamental Frequency: 2402 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: **BE CH LOW** Test Engineer: Vito

EUT Pol.: Measurement Antenna Pol.: Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2390.00	E	Peak	53.14	-6.84	46.29	74	-27.71
2390.00	E	Average	40.40	-6.84	33.56	54	-20.44

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 44 of 77

Operation Mode: **BT EDR Hopping** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH HIGH Test Engineer: Vito Measurement Antenna Pol.: EUT Pol.: Η Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dΒμV/m	dB
2483.50	E	Peak	53.55	-6.38	47.17	74	-26.83
2483.50	E	Average	40.28	-6.38	33.90	54	-20.10

Operation Mode: **BT EDR Hopping** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH HIGH Test Engineer: Vito

EUT Pol.: Measurement Antenna Pol.: Horizontal Н

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	53.12	-6.38	46.74	74	-27.26
2483.50	E	Average	40.26	-6.38	33.88	54	-20.12

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 45 of 77

10.6.2 Radiated Emission – Band Edge (Non-Hopping Mode):

BT EDR Test Date: Operation Mode: 2015/9/24

Fundamental Frequency: 2402 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: **BE CH LOW** Vito EUT Pol.: Measurement Antenna Pol.: Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2390.00	E	Peak	54.19	-6.84	47.34	74	-26.66
2390.00	Е	Average	40.27	-6.84	33.43	54	-20.57

Operation Mode: Test Date: 2015/9/24 **BT EDR**

Fundamental Frequency: 2402 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH LOW Test Engineer: Vito

EUT Pol.: Н Measurement Antenna Pol.: Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2390.00	E	Peak	53.77	-6.84	46.92	74	-27.08
2390.00	Е	Average	40.43	-6.84	33.59	54	-20.41

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 46 of 77

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Operation Mode: **BT EDR** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Test Engineer: BE CH HIGH Vito EUT Pol.: Measurement Antenna Pol.: Vertical Н

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
2483.50	E	Peak	53.44	-6.38	47.05	74	-26.95
2483.50	Е	Average	40.28	-6.38	33.90	54	-20.10

Operation Mode: **BT EDR** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH HIGH Test Engineer: Vito

EUT Pol.: Measurement Antenna Pol.: Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
2483.50	E	Peak	54.05	-6.38	47.66	74	-26.34
2483.50	E	Average	40.40	-6.38	34.02	54	-19.98

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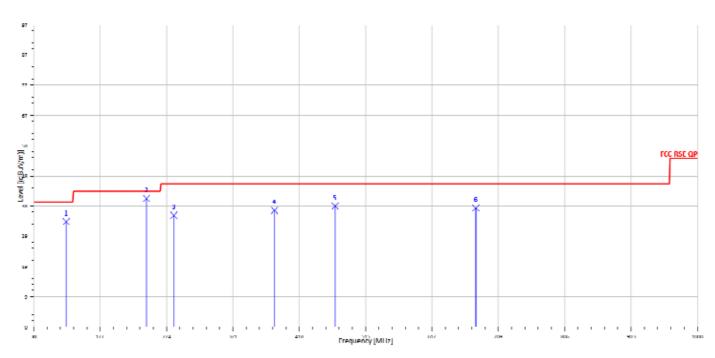
Page 47 of 77

Radiated Spurious Emission Measurement Result: For Frequency form 30MHz to 1000MHz

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 2402 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: TX CH LOW Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
77.53	S	Peak	61.04	-27.23	33.81	40	-6.19
194.90	S	Peak	66.38	-25.21	41.17	43.5	-2.33
234.67	S	Peak	59.40	-23.58	35.81	46	-10.19
382.11	S	Peak	56.65	-19.31	37.35	46	-8.65
470.38	S	Peak	55.74	-17.03	38.71	46	-7.29
676.02	S	Peak	52.29	-14.20	38.09	46	-7.91

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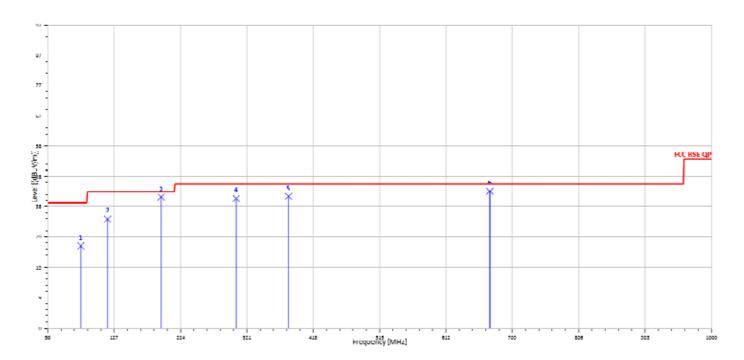
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 48 of 77

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 2402 MHz Temp. / Humi. : 22.7deg C/57RH

Operation Band: TX CH LOW Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Η Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
78.50	S	Peak	53.70	-27.48	26.22	40	-13.78
117.30	S	Peak	59.74	-24.95	34.79	43.5	-8.71
195.87	S	Peak	67.08	-25.24	41.84	43.5	-1.66
305.48	S	Peak	62.79	-21.42	41.38	46	-4.62
382.11	S	Peak	61.35	-19.31	42.04	46	-3.96
676.02	S	Peak	57.91	-14.20	43.71	46	-2.29

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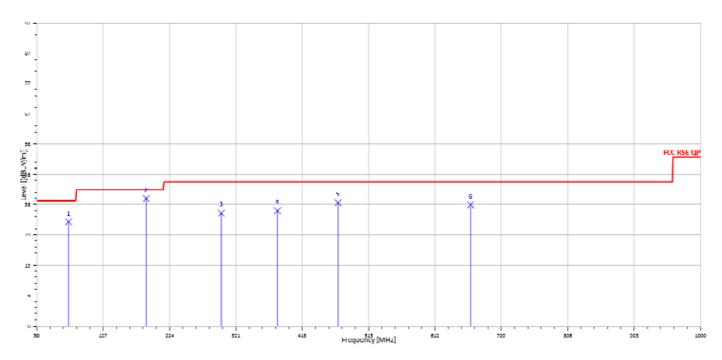
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 49 of 77

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 22.7deg_C/57RH 2441 MHz Temp. / Humi.:

Operation Band: TX CH MID Test Engineer: Vito EUT Pol.: Measurement Antenna Pol. : Η Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
76.56	S	Peak	60.32	-26.99	33.33	40	-6.67
190.05	S	Peak	65.72	-25.04	40.68	43.5	-2.82
299.66	S	Peak	57.73	-21.63	36.10	46	-9.90
382.11	S	Peak	56.21	-19.31	36.90	46	-9.10
470.38	S	Peak	56.36	-17.03	39.33	46	-6.67
664.38	S	Peak	52.64	-13.89	38.75	46	-7.25

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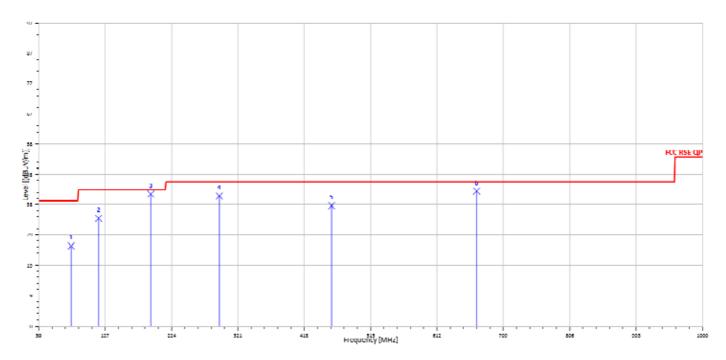
Page 50 of 77

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 22.7deg_C/57RH 2441 MHz Temp. / Humi.:

Operation Band: Test Engineer: TX CH MID Vito

Horizontal EUT Pol.: Measurement Antenna Pol. : Η



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
77.53	S	Peak	52.79	-27.23	25.56	40	-14.44
117.30	S	Peak	59.38	-24.95	34.43	43.5	-9.07
193.93	S	Peak	67.30	-25.17	42.12	43.5	-1.38
293.84	S	Peak	63.13	-21.61	41.52	46	-4.48
457.77	S	Peak	55.80	-17.35	38.44	46	-7.56
670.20	S	Peak	57.34	-14.21	43.13	46	-2.87

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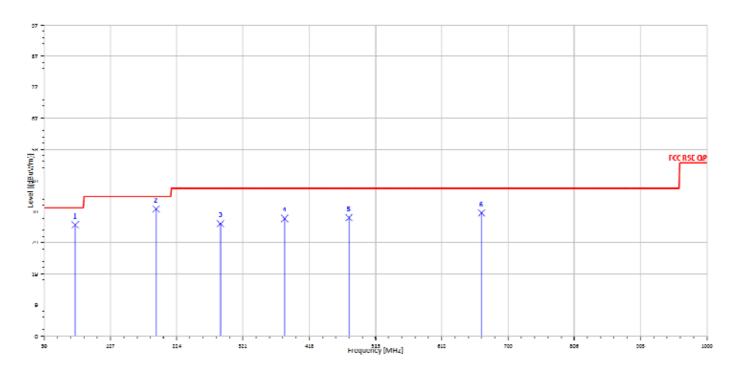
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 51 of 77

Operation Mode: **BT EDR** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: TX CH HIGH Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Н Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
75.59	S	Peak	61.38	-26.75	34.63	40	-5.37
193.93	S	Peak	64.76	-25.17	39.59	43.5	-3.92
288.02	S	Peak	56.64	-21.64	35.00	46	-11.00
382.11	S	Peak	55.94	-19.31	36.63	46	-9.37
476.20	S	Peak	53.92	-17.03	36.89	46	-9.11
670.20	S	Peak	52.51	-14.21	38.29	46	-7.71

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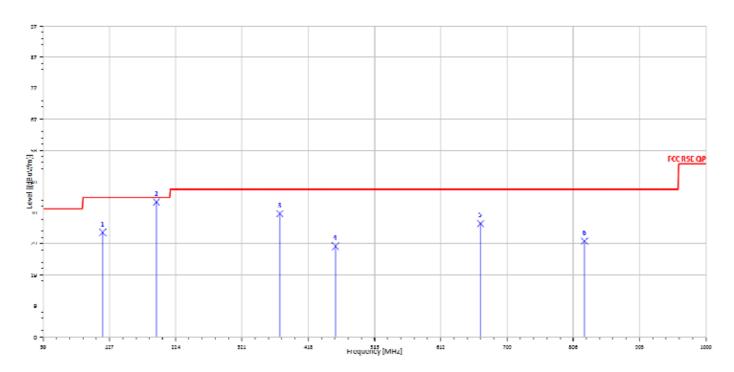
Page 52 of 77

Operation Mode: **BT EDR** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: TX CH HIGH Test Engineer: Vito

EUT Pol.: Measurement Antenna Pol.: Η Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
117.30	S	Peak	57.54	-24.95	32.59	43.5	-10.91
195.87	S	Peak	67.28	-25.24	42.04	43.5	-1.46
376.29	S	Peak	57.81	-19.42	38.39	46	-7.61
457.77	S	Peak	45.64	-17.35	28.29	46	-17.71
670.20	S	Peak	49.58	-14.21	35.36	46	-10.64
822.49	S	Peak	41.24	-11.36	29.88	46	-16.13

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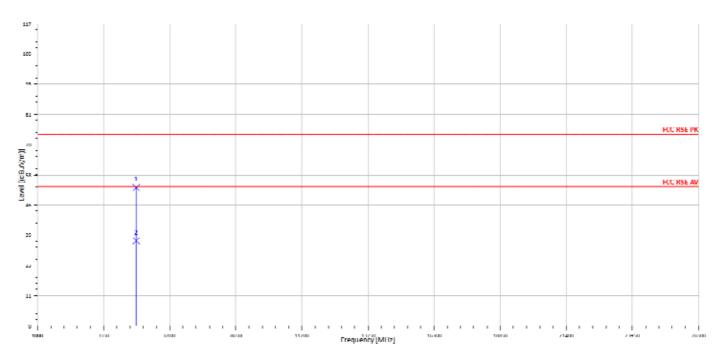
Page 53 of 77

Radiated Spurious Emission Measurement Result: For Frequency above 1 GHz

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 2402 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: TX CH LOW Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4804.00	Н	Peak	54.75	-1.16	53.59	74	-20.41
4804.00	Н	Average	34.09	-1.16	32.93	54	-21.07

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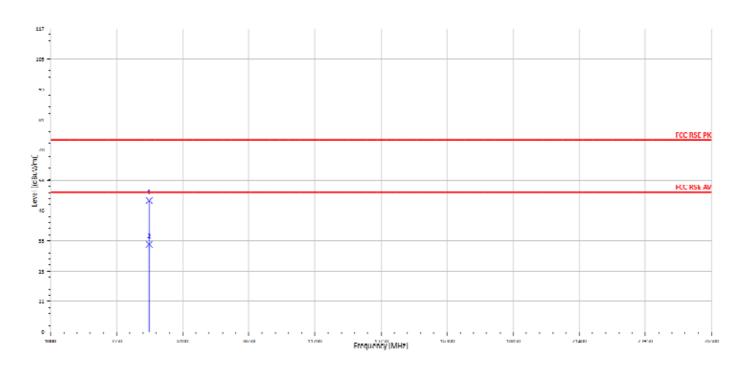
Page 54 of 77

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 2402 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: TX CH LOW Test Engineer: Vito

EUT Pol.: Н Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4804.00	Н	Peak	51.85	-1.16	50.69	74	-23.31
4804.00	Н	Average	34.92	-1.16	33.76	54	-20.24

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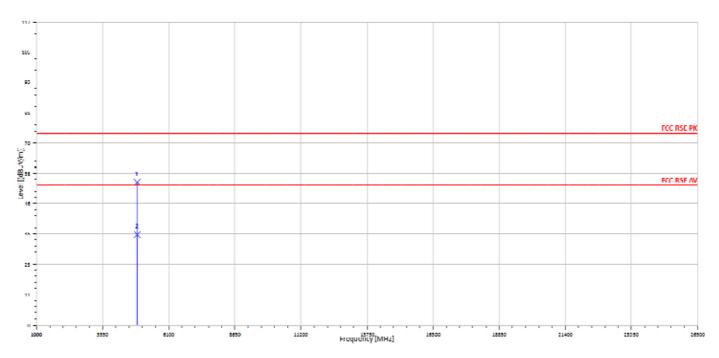
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 55 of 77

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 22.7deg_C/57RH 2441 MHz Temp. / Humi.:

Operation Band: TX CH MID Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Η Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4882.00	Н	Peak	55.73	-0.70	55.03	74	-18.97
4882.00	Н	Average	35.45	-0.70	34.75	54	-19.25

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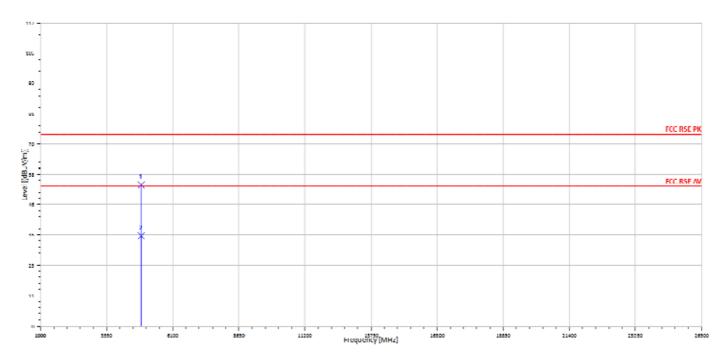
Page 56 of 77

Operation Mode: BT EDR Test Date: 2015/9/24

Fundamental Frequency: 22.7deg_C/57RH 2441 MHz Temp. / Humi.:

Operation Band: TX CH MID Test Engineer: Vito

EUT Pol.: Measurement Antenna Pol.: Η Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4882.00	Н	Peak	55.09	-0.70	54.39	74	-19.61
4882.00	Н	Average	35.37	-0.70	34.67	54	-19.33

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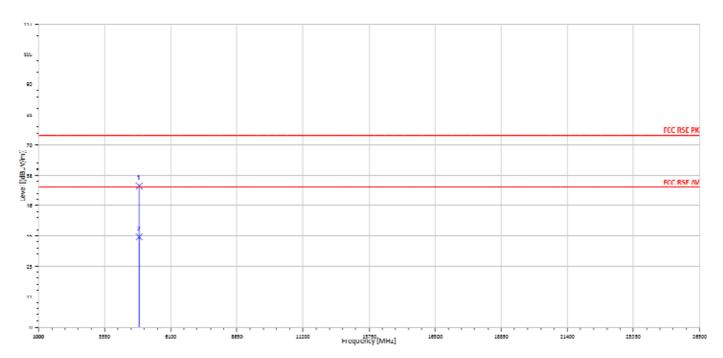
Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 57 of 77

Operation Mode: **BT EDR** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: TX CH HIGH Test Engineer: Vito EUT Pol.: Measurement Antenna Pol.: Η Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4960.00	Н	Peak	57.41	-0.66	56.76	74	-17.24
4960.00	Н	Average	35.07	-0.66	34.41	54	-19.59

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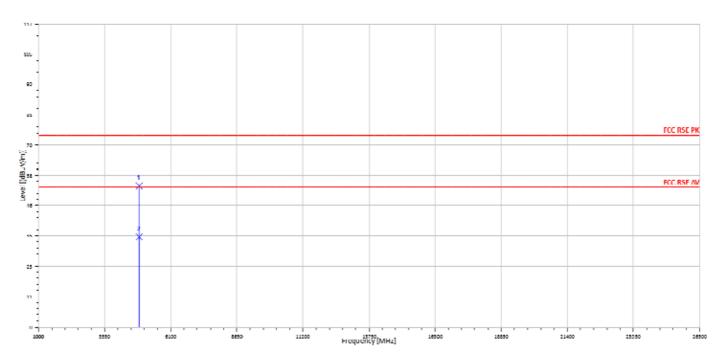
Page 58 of 77

Operation Mode: **BT EDR** Test Date: 2015/9/24

Fundamental Frequency: 2480 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: TX CH HIGH Test Engineer: Vito

EUT Pol.: Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4960.00	Н	Peak	42.85	-0.66	42.19	74	-31.81
4960.00	Н	Average	34.13	-0.66	33.47	54	-20.53

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 59 of 77

11. FREQUENCY SEPARATION

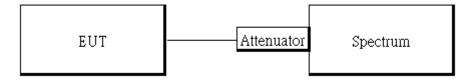
11.1. Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

11.2. Measurement Equipment Used

Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015					
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015					
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015					
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015					

11.3. Test Set-up



11.4. Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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 center frequency of spectrum analyzer = middle of hopping channel.
- 5. Set the spectrum analyzer as RBW, VBW=100 kHz, Adjust Span to 5MHz, Sweep = auto.
- 6. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 60 of 77

11.5. Measurement Result

Channel separation (MHz)	Limit	Result
1	>=25 kHz or 2/3 times 20dB bandwidth	PASS

Frequency Separation Test Data



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 61 of 77

12. NUMBER OF HOPPING FREQUENCY

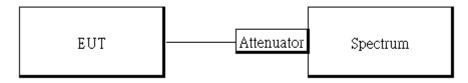
12.1. Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

12.2. Measurement Equipment Used

	moded on one Equipment Good						
Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015		
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015		
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015		
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015		

12.3. Test Set-up



12.4. Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 5. Set the spectrum analyzer as RBW=430 kHz, VBW=1.5MHz., Detector = Peak
- 6. Max hold, view and count how many channel in the band.

12.5. Measurement Result

Tabular Data of Total Channel Number

	Channel Number	Limit
2.4 GHz – 2.441GHz	40	
2.441 GHz – 2.4835GHz	39	>15
2.4GHz ~2.4835GHz	(40+39) = 79	

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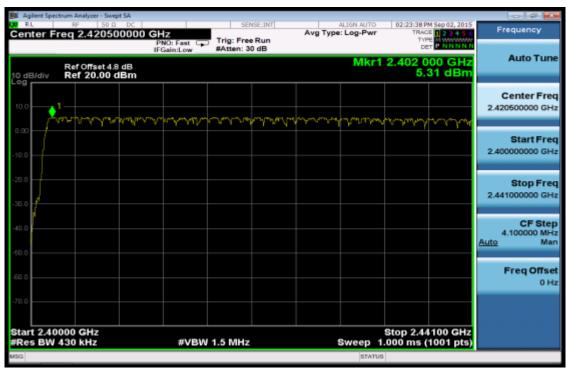


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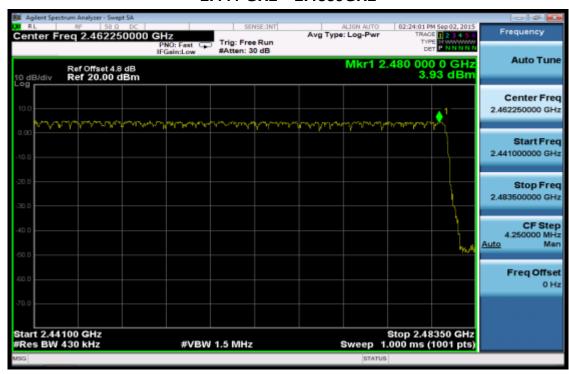
Page 62 of 77

Channel Number

2.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 63 of 77

13. TIME OF OCCUPANCY (DWELL TIME)

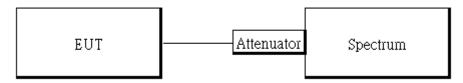
13.1. Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

13.2. Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015		
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015		
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/19/2014	12/18/2015		
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015		

13.3. Test Set-up



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 64 of 77

13.4. Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 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 center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 2~8ms.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2 DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4 DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

In AFH mode, hopping rate is 800 hop/s with 6 slots in 20 hopping channels with channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 * 20) (S), Hop Over Occupancy Time comes to (800 / 6 / 20)*(0.4 * 20) = 53.33

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 65 of 77

13.5. Tabular Result of the Measurement

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result	Limit	
		(ms)	(ms)	
	DH1	122.88	400ms	
0	DH3	260.64	400ms	
	DH5	307.9466667	400ms	
39	DH1	122.88	400ms	
	DH3	260.64	400ms	
	DH5	307.9466667	400ms	
78	DH1	123.2	400ms	
	DH3	262.72	400ms	
	DH5	307.9466667	400ms	

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	123.2	400ms
	DH3	262.72	400ms
	DH5	307.9466667	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	DH1	124.8	400ms
	DH3	262.72	400ms
	DH5	307.9466667	400ms

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 66 of 77

A period time = 0.4 (s) * 79 = 31.6 (s)

GFSK (1Mbps):

CH Low	DH1 time slot = DH3 time slot = DH5 time slot =	0.384 * 1.629 * 2.887 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 = 31.6 =	122.88 (ms) 260.64 (ms) 307.95 (ms)
CH Mid	DH1 time slot = DH3 time slot = DH5 time slot =	0.384 * 1.629 * 2.887 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 = 31.6 =	122.88 (ms) 260.64 (ms) 307.95 (ms)
CH High	DH1 time slot = DH3 time slot = DH5 time slot =	0.385 * 1.642 * 2.887 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 = 31.6 =	123.2 (ms) 262.72 (ms) 307.95 (ms)
π/4 -DQPS	SK (2Mbps):				
CH Mid	2DH1 time slot= 2DH3 time slot= 2DH5 time slot=	0.385 * 1.642 * 2.887 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 = 31.6 =	123.2 (ms) 262.72 (ms) 307.95 (ms)
8-DPSK (3	Mbps):				
CH Mid	3DH1 time slot= 3DH3 time slot= 3DH5 time slot=	0.390 * 1.642 * 2.887 *	(1600/2/79) * (1600/4/79) * (1600/6/79) *	31.6 = 31.6 = 31.6 =	124.8 (ms) 262.72 (ms) 307.95 (ms)

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 67 of 77

GFSK (1Mbps) for AFH Mode				
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)	
20	DH5	153.97	400ms	
	π/4 DQPSK (2I	Mbps) for Mode		
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)	
20	DH5	153.97	400ms	
	8-DPSK (3Mbps	s) for AFH Mode		
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)	
20	DH5	153.97	400ms	

GFSK (1Mbps):

DH5 time sl = 2.887	(ms)	*	(800/6/20)*8=	153.97	(ms)	
-----------------------	------	---	---------------	--------	------	--

 $\pi/4$ -DQPSK (2Mbps):

2DH5 time := 2.887 (ms) (800/6/20)*8 = 153.97 (ms)

8-DPSK (3Mbps):

3DH5 time := 2.887 (ms) (800/6/20)*8 =153.97 (ms)

13.6. **Measurement Result**

Note: Refer to next page for plots.

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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 68 of 77

CH-Low DH1



DH3



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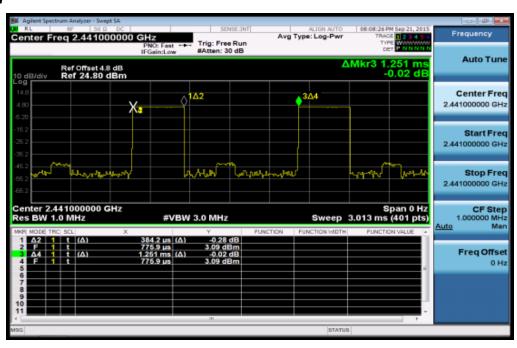
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Page 69 of 77

DH₅



CH-Mid DH1



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 70 of 77

DH3



DH₅



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 71 of 77

CH-High DH1



DH3



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Page 72 of 77

DH₅



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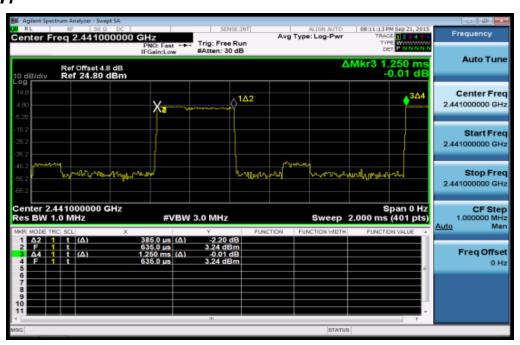
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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 73 of 77

CH-Mid 2DH1



2DH3



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 74 of 77

2DH5



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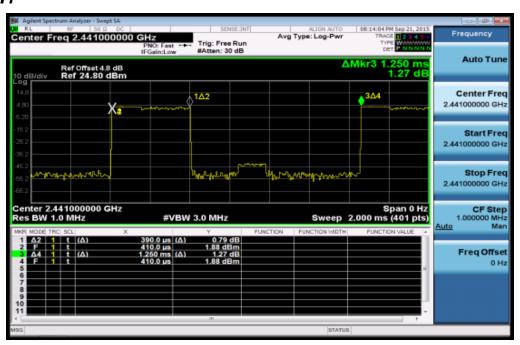
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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 75 of 77

CH-Mid 3DH1



3DH3



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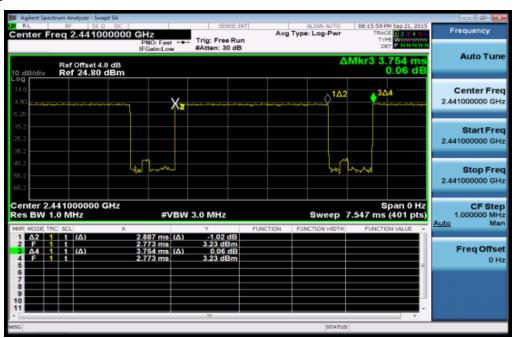
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Page 76 of 77

3DH5



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Report No.: E2/2015/90055 Issue Date: Oct.01, 2015

Page 77 of 77

14. ANTENNA REQUIREMENT

14.1. 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.

14.2. Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector 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.

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. 除非另有說明,此根告结果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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