

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

	OF
Applicant:	Quanta Computer Inc. No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City 33377, Taiwan
Product Name:	Clover Station
Brand Name:	clover
Model No.:	C500
Model Difference:	N/A
FCC ID:	HFS-C500
Report No.:	E2/2017/90034
FCC Rule Part:	§15.247, Cat: DSS
Issue Date:	Oct. 27, 2017
Date of Test:	Sep. 12, 2017 ~ Oct. 25, 2017
Date of EUT Received:	Sep. 12, 2017

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.

Prepared By:

karen

Karen Huang / Clerk

Approved By:

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/90034	Rev.00	Initial creation of document	Oct. 27, 2017

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GENERAL INFORMATION 1

1.1 Product Description

General:

Product Name:	Clover Station				
Brand Name:	clover				
Model No.:	C500				
Model Difference:	N/A				
Hardware Version:	1.0				
Software Version:	android-go	android-goldenoak-eng-1010001			
Hub:	Model No.:	Model No.: H500, Brand: clover			
Printer (Optional):	 Model No.: P550 (with NFC & LCD panel), Brand: clover Model No.: P500 (pure printer), Brand: clover 				
	3.8Vdc from Rechargeable Li-ion Polymer Battery or 24Vdc from AC/DC adapter				
Power Supply:	Battery: Model No.: MLP3853144, Supplier: McNair				
	Adapter: Model No.: FSP120-AABN3, Brand: clover				

Bluetooth BR+EDR:

Frequency Range:	2.402GHz – 2.480GHz			
Bluetooth Version	V4.2 dual mode			
Channel number:	79 channels			
Modulation type:	GFSK + π/4DQPSK + 8DPSK			
Transmit Power:	5.08dBm (Peak)			

Antenna Designation

Antenna Type	Part Number	Supplier	Peak Gain (dBi)
IFA	N/A	N/A	4.1

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Number and Designation number are: 735305 / TW0002

1.4 Special Accessories

There is no special accessory used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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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 0.4dB.

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2.5 Configuration of Tested System Fig. 2-1 Conducted (Antenna Port) Emission Configuration

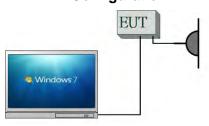


Fig. 2-2 Radiated Emission

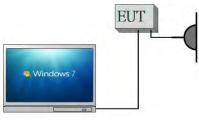


Fig. 2-3 Conduction (AC Power Line) Radiated Emission

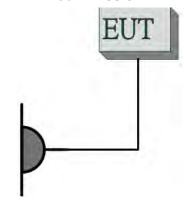


Table 2-1	Equipment	Used in	Tested S	ystem
-----------	-----------	---------	-----------------	-------

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.	Notebook	Lenovo	L430	R9-YYG88	Shielded	Unshielded

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SUMMARY OF TEST RESULTS 3

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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DESCRIPTION OF TEST MODES 4

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

СН	FREQUENCY	СН	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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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- Test program used to control the EUT for staying in continuous transmitting and receiving 2 mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

RADIATED TEST						
	Radiated	I Emission Test	(BELOW 1 GHz) (Wo	orst case)		
MODE	AVAILABLE	TESTED	MODULATION	PACKET		
MODE	CHANNEL	CHANNEL	WODULATION	TYPE		
Bluetooth	0 to 78	0,39,78	GFSK	DH5		
	Radiated Emission Test (ABOVE 1 GHz) (Worst case)					
MODE	AVAILABLE	TESTED	MODULATION	PACKET		
MODE	CHANNEL	CHANNEL		TYPE		
Bluetooth	0 to 78	0,39,78	GFSK	DH5		
Band Edge						
Bluetooth	0 to 78	0,78	GFSK	DH5		
Bluetooth	0 to 78	0,78	8-DPSK	3DH5		

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 BR+EDR Transmitter for channel Low, Mid and High, the worst case H position was reported.

	ANTENNA PORT CONDUCTED TEST					
	F	Peak Output Pov	ver, 20dB Band Wid	th		
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE		
	0 to 78	0,39,78	GFSK	DH5		
Bluetooth	0 to 78	0,39,78	π/4-DQPSK	2DH5		
	0 to 78	0,39,78	8-DPSK	3DH5		
		Band Edge & C	onducted Emission			
Bluetooth	0 to 78	0,78	GFSK	DH5		
Bluetooth	0 to 78	0,78	8-DPSK	3DH5		
		Frequen	cy Separation			
Bluetooth	0 to 78	0,39,78	8-DPSK	3DH5		
		Number of h	opping frequency			
Bluetooth	0 to 78	0 to 78	8-DPSK	3DH5		
Time of Occupancy (Dwell time)						
Bluetooth	0 to 78	0,39,78	GFSK	DH1/DH3/DH5		
Bluetooth	0 to 78	39	π/4-DQPSK	DH1/DH3/DH5		
Bluetooth	0 to 78	39	8-DPSK	DH1/DH3/DH5		

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ASUREMENT UNCERTAINTY 5

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

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB	
	30MHz - 167MHz: +/- 4.22dB	
	167MHz -500MHz: +/- 3.44dB	
	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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CONDUCTED EMISSION TEST 6

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 t	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	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2016	08/29/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	06/18/2017	06/17/2018
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

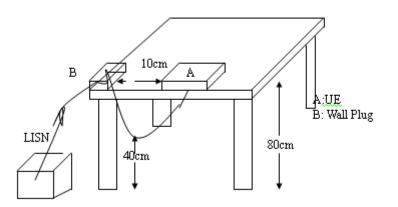
- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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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

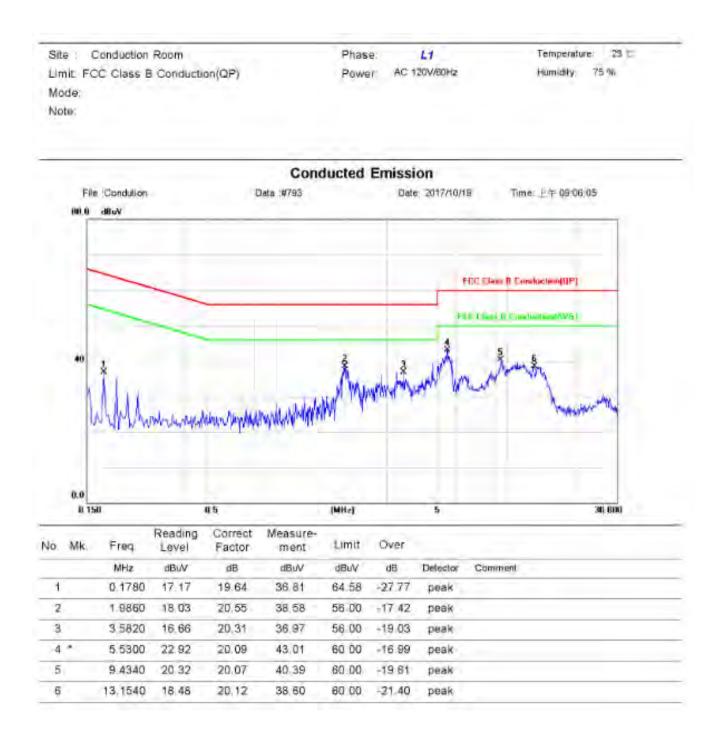
Note: Refer to next page for measurement data and plots. Note2: The * reveals the worst-case results that closet to the limit

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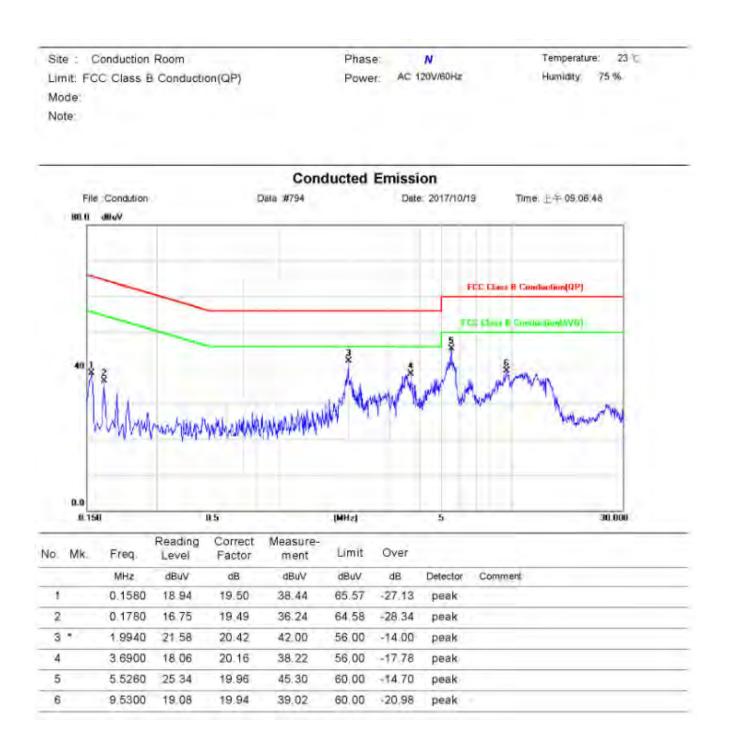
AC POWER LINE CONDUCTED EMISSION TEST DATA



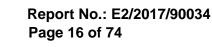
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PEAK OUTPUT POWER MEASUREMENT 7

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

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

7.3 Test Set-up:

EUT Attenuator	Power Sensor	Power Meter
----------------	--------------	-------------

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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7.5 Measurement Result

1M BR mode (Peak):	1M BR	mode	(Peak):	
--------------------	-------	------	---------	--

СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	4.62	2.897	1000
39	2441	5.08	3.221	1000
78	2480	4.58	2.871	1000

1M BR mode (Average):

СН	Freq. (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	3.49	2.234	1000
39	2441	3.75	2.371	1000
78	2480	3.31	2.143	1000

2M EDR mode (Peak):

СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	2.12	1.629	125
39	2441	4.14	2.594	125
78	2480	3.60	2.291	125

2M EDR mode (Average):

		Max. Avg.Output		
	Frag	include	Output	Limit
CH	Freq. (MHz)	tune up	Power	
	(IVI⊟Z)	tolerance	(mW)	(mW)
		Power (dBm)	· ·	
0	2402	-1.62	0.689	125
39	2441	0.36	1.086	125
78	2480	-0.10	0.977	125

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3M EDR mode (Peak):

СН	Freq. (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	2.52	1.786	125
39	2441	4.57	2.864	125
78	2480	4.00	2.512	125

3M EDR mode (Average):

СН	Freq. (MHz)	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	-1.51	0.706	125
39	2441	0.55	1.135	125
78	2480	0.07	1.016	125

*Note: Max. Output include tune up tolerance Power measured by using average detector.

NOTE: cable loss as 0.4dB that offsets in the spectrum

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8 20DB BANDWIDTH MEASUREMENT

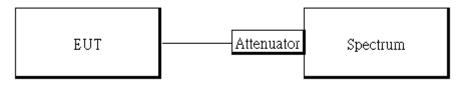
8.1 Standard Applicable

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	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018			
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018			
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018			
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018			
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017			
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017			
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017			
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017			
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018			

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 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. 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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8.5 Measurement Result

GFSK

	20 dB	2/3
СН	BW	BW
	(MHz)	(MHz)
Low	0.9209	0.61
Mid	0.9224	0.61
High	0.9231	0.62

π/4-DQPSK

	20 dB	2/3
СН	BW	BW
	(MHz)	(MHz)
Low	1.257	0.84
Mid	1.258	0.84
High	1.258	0.84

8-DPSK

	20 dB	2/3
СН	BW	BW
	(MHz)	(MHz)
Low	1.262	0.84
Mid	1.263	0.84
High	1.262	0.84

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



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

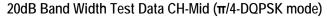


20dB Band Width Test Data CH-High (GFSK mode)

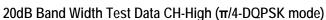


nter Freg 2.4020 Center Freq: 2.402000000 GHz Trig: Free Run Avg/Hold Ref Offset 0.4 dB Ref 10.00 dBm Center Fre er 2.402 GHz BW 15 kHz Span 3 Mi ep 12.73 n VBW 47 kHz CFE Occupied Ban 7.07 dE 1.1755 MHz Freq Offs 12.167 kHz nit Freq En 99.00 % dB Bandwidth 1.257 MHz x dB -20.00 dB

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







Center Freq 2.480000000	Trig: F	r Freq. 2.480000000 GHz Free Run Avg Hole 1: 20 dB	d: 50/50	Radio Device: BTS	Frequency
10 dB/div Ref Offset 0.4 dB					
Log 0 32 	minim	Annon			Center Fr 2.480000000 G
200 200 200 200 200			fum	mm	
Center 2.48 GHz #Res BW 15 kHz	#	VBW 47 kHz		Span 3 MHz Sweep 12.73 ms	CF St 300.000 k
Occupied Bandwidt		Total Power	8.39	dBm	Auto M
1.* Transmit Freq Error x dB Bandwidth	-15.070 kHz 1.258 MHz	OBW Power x dB	99. -20.0	00 % 0 dB	Freq Offs 0
NVIX 1			TATUS		·

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



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



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

Center Freq 2.48000000	-t- Trig:	Free Run AvgiHol m: 20 dB	d: 50/50 Radio Std: None d: 50/50 Radio Device: BTS	Frequency
10 dB/div Ref 0ffset 0.4 dB	n <u>;</u>			
.eg 0 22 0 50 0 0	mm	man		Center Freq 2.480000000 GHz
			10-0	
			- when we want	
© 0 Center 2.48 GHz #Res BW 15 kHz		VBW 47 kHz	Span 3 M Sweep 12.73	
Occupied Bandwidt		Total Power	8.48 dBm	Auto Man
1.	1777 MHz			FreqOffset
Transmit Freq Error x dB Bandwidth	-18.957 kHz 1.262 MHz	OBW Power x dB	99.00 % -20.00 dB	0 Hz
10			STATUT	· • ·

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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).

	Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
ТҮРЕ		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018			
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018			
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018			
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018			
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017			
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017			
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017			
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017			
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018			

9.2 Measurement Equipment Used

9.3 Test SET-UP



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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.
- 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=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	5	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.

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

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



Band Edges Test Data CH-High



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



Band Edges Test Data CH-High



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Band Edges Test Data CH-Low (Hopping mode) (8-DPSK mode)

enter Freq 2.365000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	65:15:17 PM Oct 12, 2017 TRACE 1, 2, 3, 4 CM F TYPE PA WARMAN	Frequency
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			y Provinter maper	Center Fred 2.365000000 GH
				Start Free 2.310000000 GH
lo C 19 D <mark>Specifica - Na Statiliza, guiden againte and saigh kad</mark> 19 D	rentron and solver a	COLOR COMPANY COMPANY	<i>*</i>	Stop Fre 2 420000000 GH
KR MODE TRC SCL X		Sweep 1	Stop 2.42000 GHz 0.53 ms (1001 pts) FUNCTION VALUE	CF Step 11.000000 MH Auto Mar
1 N 1 T 2.40702 GHz 2 N 1 T 2.399 90 GHz 3 N 1 T 2.399 90 GHz 4 N 1 T 2.399 00 GHz 6 G 7 G	-1.05 dBm -62.67 dBm -71.39 dBm		-	Freq Offse 0 H

Band Edges Test Data CH-High



Band Edges Test Data CH-Low (Non-Hopping mode) (8-DPSK mode)



Band Edges Test Data CH-High



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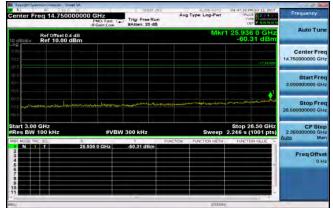


Conducted Spurious Emission Measurement Result

(GFSK mode) Ch Low 30MHz - 3GHz

enter Freq 1.5150000		Avg Type: Log-Pwr	18402 12.2017 18402 12.2017 1992 12.34 1 1992 12.34 1 1992 12.34 1 001 1991 10.000	Frequency
Ref Offset 0.4 dE	e m	Mk	1 2.403 0 GHz 2.56 dBm	Auto Tune
000 000 000			1 -17.85.921	Center Freq 1.515000000 GHz
20.0 (01)				Start Fred 30,000000 MHz
60 D	and the state of the second		nganakan menjarakan kang panganak	Stop Fred 3,000000000 GH/
Start 30 MHz Res BW 100 kHz	#VBW 300 kHz	Sweep 28	Stop 3.000 GHz 3.9 ms (1001 pts)	CF Step 297,000000 MHJ Auto Mar
MODE TRC SCL	х т 2.403 0 GHz 2.56 dBm	FUNCTION FUNCTION WETH:	FUNCTION VALUE	Freq Offset
4				0 Hz

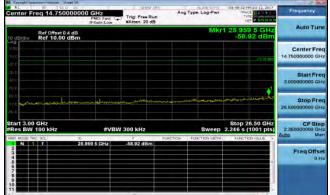
Ch Low 3GHz - 26.5GHz



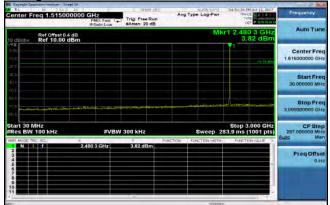
Ch Mid 30MHz – 3GHz

Bill Keynight Spactister Analyzer - Skept SA				10 M M
Center Freq 1.515000000	GHZ PNO: Fast C Trig: Free Run #Fiseir Low #Atten: 20 dB	Avg Type: Log-Pwr	THACE TO A CONTRACT OF THE CON	Frequency
Ref Offset 0.4 dB	TOUR CON	Mkr1	2.441 6 GHz 4.82 dBm	Auto Tune
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-10.0				Start Fred 30 000000 MHz
-20 0 1700	An the particular and a standard processing	ad and the second s	وموافقها والمراجع	Stop Freq 3,000000000 GHz
Start 30 MHz #Res BW 100 kHz MCR MODE TRC SCL X	#VBW 300 kHz	Sweep 283.9	top 3.000 GHz ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 24 2 3 4 5 6 7 9 9 10	41 6 GHz 4.82 dBm			Freq Offset 0 Hz
• [STATUS	ा में,	

Ch Mid 3GHz - 26.5GHz



Ch High 30MHz - 3GHz



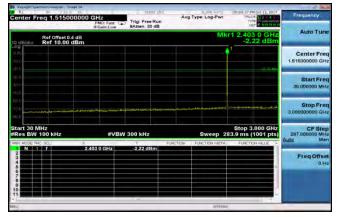
Ch High 3GHz – 26.5GHz

Kayanght Spectrum Anulyzer - Skrapt SA		A IDE MITO	04 51:50 PM GG 12, 2017	1919 M
enter Freq 14.750000000		Avg Type: Log-Pwr		Frequency
Ref Offset 0.4 dB	FGain:Low #Atten: 20 dB	Mkr	1 25,865 5 GHz -60,62 dBm	Auto Tune
0.00 0.00 0.00			75 (9.4D)	Center Free 14.750000000 GH
10 D				Start Free 3.000000000 GH
ree eestaan	and the providence of	والموسوري وسأستحد فيارتها	et to all interesting the second s	Stop Free 26 50000000 GH
Start 3.00 GHz Res BW 100 kHz	#VBW 300 kHz	Sweep	Stop 26.50 GHz 2.246 s (1001 pts)	CF Step 2.350000000 GH Auto Mar
	5 6 GHz -60.62 dBm		PORCHOWINGDE A	Freq Offse 0 H
		erénie		

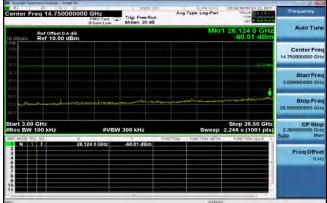
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Conducted Spurious Emission Measurement Result (8DPSK mode) Ch Low 30MHz - 3GHz



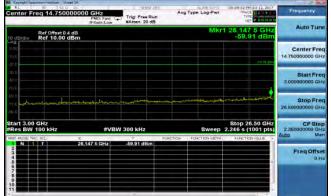
Ch Low 3GHz - 26.5GHz



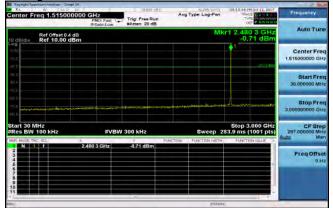
Ch Mid 30MHz - 3GHz

Keynight Spectrem Analyzer - Skrept SA			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Center Freq 1.51500000	PNO: Fast Control Trig: Free Run #FGain:Low #Atten: 20 dB	Avg Type: Log-Pwr Theor 12, 2017 Avg Type: Log-Pwr Theor 12, 2017 Theor 12, 2017	
Ref Offset 0.4 dB		Mkr1 2.441 6 GHz 0.21 dBm	AutoTun
100 000 .000		(1.75 db)	Center Fre 1.515000000 GH
30.0 400			Start Fre 30,000000 MH
-Ep () 70 D 	en dur mittene yn af namme ar werden te beneder ar werde beinen.	an a	Stop Fre 3,000000000 GH
Start 30 MHz #Res BW 100 kHz	#VBW 300 kHz	Stop 3.000 GHz Sweep 283.9 ms (1001 pts)	CF Ste 297.000000 Mit Auto Ma
1 N 1 F 2 4 6 6 7 8 9 9 10	2.441 6 GHz 0,21 dBm		Freq Offse 0 H
ea)		STATUS	

Ch Mid 3GHz - 26.5GHz



Ch High 30MHz - 3GHz



Ch High 3GHz – 26.5GHz

RL		2 DC		SU 1851		NUTUR MOLTO		0612,2517	Frequency
enter Fr	req 14.750	000000 GH	Fast 😱	Trig: Free Ro #Atten: 20 dl	in	g Type: Log-Pwr	TYP	E B 2 B 4 B F Distances	requercy
Ref Offset 0.4 dB						Mkr	1 25.959 -59.3	5 GHz 35 dBm	Auto Tune
								21/22 404	Center Free 14.750000000 GH
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	anning	un in the second second	Mirashi ki yiki	and philing and and philos	فالكرواسلام ويسادل المعلسين	lens fråder og skjanska som s	در استحد بد او او بد مهار ا		Stop Fre 26 50000000 GH
tart 3.00 Res BW	100 kHz	X	#VBW	300 kHz	FUNCTION	Sweep	Stop 20 2.246 s (1		CF Ste 2.35000000 GH Auto Ma
1 N 1 2 3 4 5		25.959 5 0	iHz	-59.35 dBm					Freq Offse 0 H
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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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10.2 Measurement Equipment Used

SGS 966 Chamber No.C						
Name of Equipment	Manufacturer	Model	Serial Number	Calibra- tion Date	Calibra- tion Due	
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018	
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017	
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017	
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017	
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2017	07/23/2018	
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017	
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017	
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017	
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017	
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017	
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017	
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017	
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017	
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017	
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017	
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017	
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018	
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018	
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018	
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.	

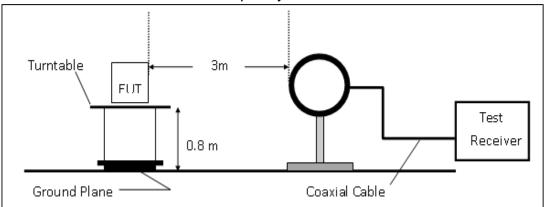
Note: N.C.R refers to Not Calibrated Required.

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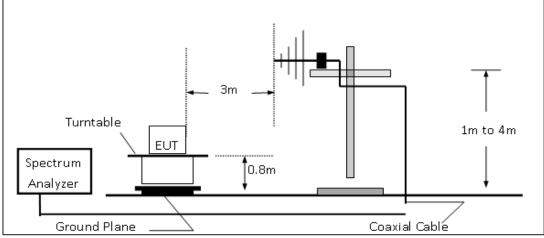


10.3 Test SET-UP

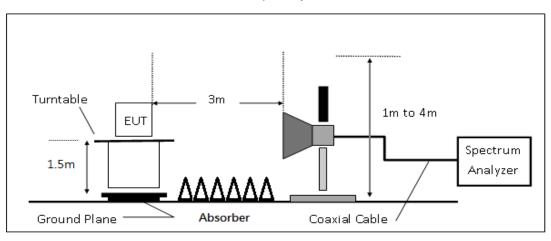
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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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 1.5m 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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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	FS = Field Strength	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($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

 $Factor(dB) = Antenna Factor(dB\mu V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)$

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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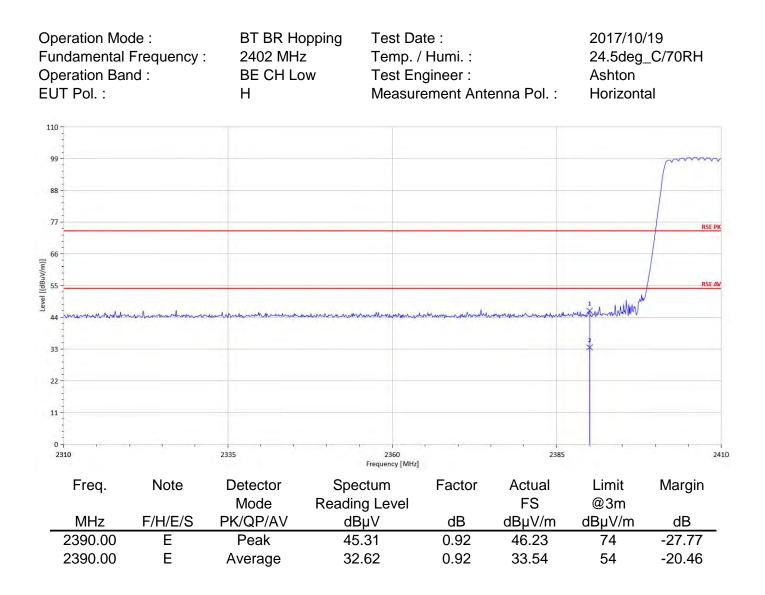


Radiated Band Edge Measurement Result: (Hopping Mode)

Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :		BT BR Ho 2402 MHz BE CH Lo H	z Tei ow Tei	st Date : mp. / Humi. : st Engineer : asurement Ant	tenna Pol. :	2017/10/ 24.5deg Ashton Vertical	′19 _C/70RH
110 99 88 77							RSE PK
66 [(m/Nngp]] 1989 44	han marked and a second	water	unternation of the standards	and and a second and	when the spin way we are the spin of the s	un timber the second	RSE AV
22						*	
0		2335		60 cy [MHz]	2385		2410
Freq.	Note	Detector Mode	Spectum Reading Le	vel	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00 2390.00		Peak Average	46.10 32.62	0.92 0.92	47.02 33.54	74 54	-26.98 -20.46

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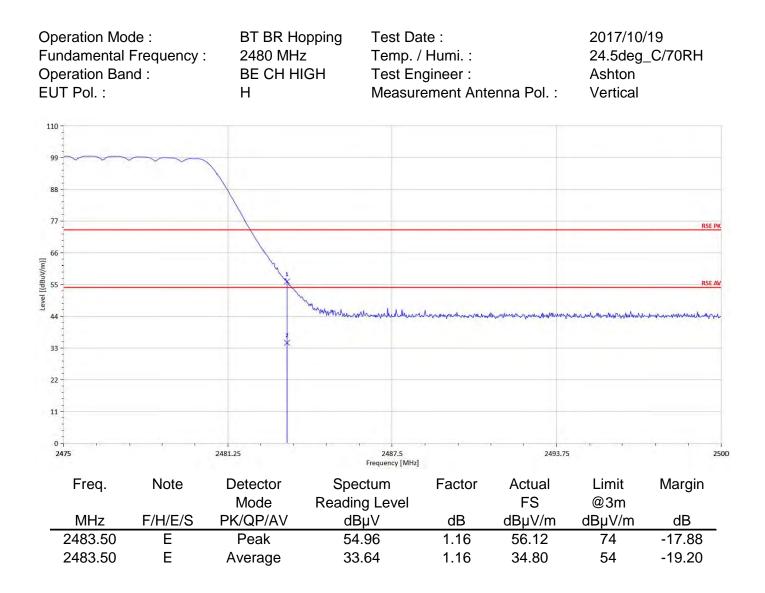




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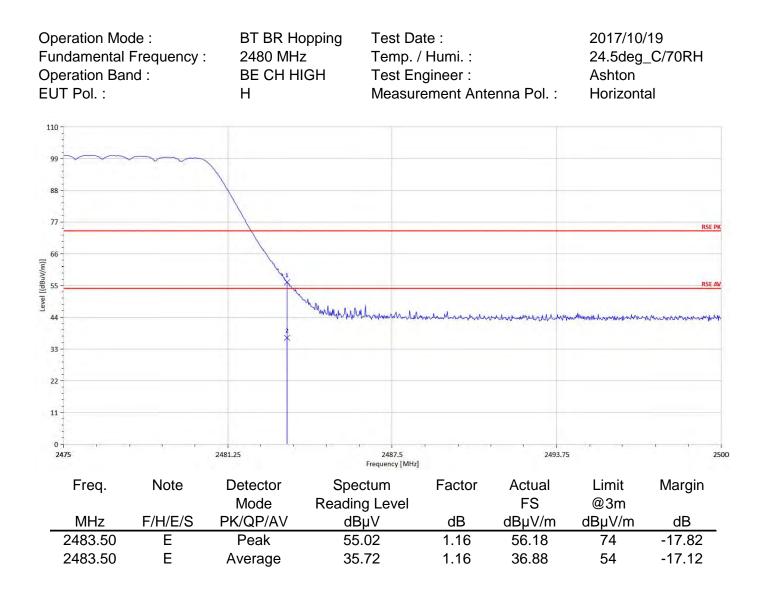




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Operation M Fundament Operation E EUT Pol. :	al Frequency :	BT EDR I 2402 MH: BE CH Lo H	z Tei ow Tei	st Date : mp. / Humi. : st Engineer : asurement Ai	ntenna Pol.	Ashton	g_C/70RH
110							
99 -							hann
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77							
							RSE PK
[e							
Level [[dBu//m]]							RSE AV
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1						3	
33 -						Î	
22							
11							
0							
2310		2335	2360 Frequency [MHz]	2385		2410
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
N 41 1_		Mode	Reading Leve		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00		Peak	45.51	0.92	46.43	74	-27.57
2390.00) E	Average	32.67	0.92	33.59	54	-20.41

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Operation Mc Fundamental Operation Ba EUT Pol. :	Frequency :	BT EDR H 2402 MH BE CH Lo H	z Te ow Te	est Date : emp. / Humi. : est Engineer : easurement A	ntenna Pol. :	Ashton	g_C/70RH
110 99 88 77							RSE PK
66 [[[[]]] []] 1 []]] 1 []]] 1 []]] 1 []]] 1 []]] 1 []]] 1 []]] 1 []]] 1 []]] 1 []]]] 1 []]] 1 []]] 1 []]] 1 []]]]]]]]]]	han an a	and the second	ann marta ann an a	non an	untreconstants	when the whe	RSE AV
11 0 2310	• • •	2335	236	0	2385		2410
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Frequency Spectum Reading Lev dBµV	Factor	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00 2390.00	E	Peak Average	44.72 32.60	0.92	45.64 33.52	74 54	-28.36 -20.48

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Operation Mo Fundamental Operation Bar EUT Pol. :	Frequency :	BT EDR H 2480 MHz BE CH HI H	z Ten IGH Tes	it Date : np. / Humi. : it Engineer : asurement Ar	ntenna Pol. :	Ashtor	eg_C/70RH
99	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\					
88 -							RSE PK
66 [(ɯ/ʌ/ŋɡ]] 55							RSE AV
33		*	Murrandhurr	un monto and the me	walnutananita	donar dhalan	
22							
0	· · ·	2481.25	2487.5 Frequency [N	/Hz]	2493.75	<u>н і</u>	2500
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Leve dBµV	Factor I dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50 2483.50	E	Peak Average	53.71 34.80	1.16 1.16	54.87 35.96	74 54	-19.13 -18.04

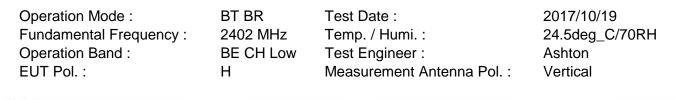
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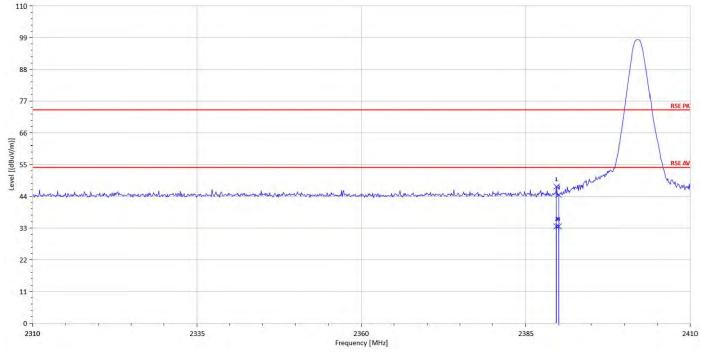


Operation Mc Fundamental Operation Ba EUT Pol. :	Frequency :	BT EDR H 2480 MH BE CH HI H	z T IGH T	est Date : emp. / Humi. : est Engineer : leasurement A	ntenna Pol. :	Ashtor	eg_C/70RH
110							
99	and a second						
88		1					
66							RSE PK
[(w//mgp]]		1 the	-				RSE AV
] Iava1 44			myentennon		monulashame	any and a support	manumuntur
33		*					
22							
11							
0	6 I. I.	2481.25	248 Frequence		2493.7	5	2500
Freq.	Note	Detector Mode	Spectum Reading Lev	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50 2483.50	E E	Peak Average	54.43 34.96	1.16 1.16	55.59 36.12	74 54	-18.41 -17.88



Radiated Band Edge Measurement Result: (Non-Hopping Mode)

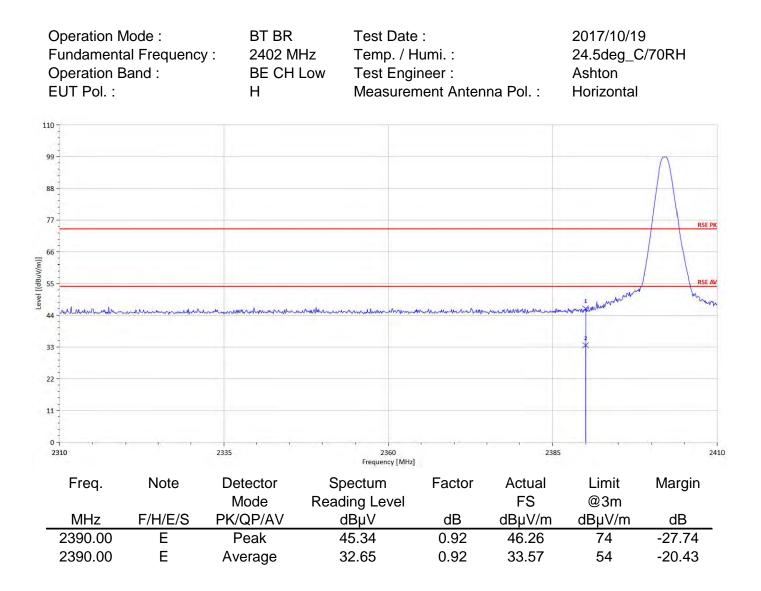




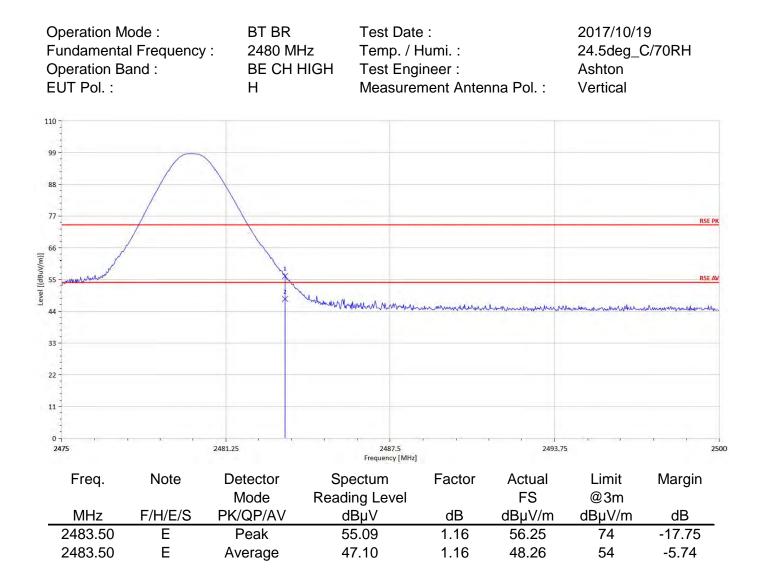
Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2389.70	S	Peak	46.39	0.92	47.31	74	-26.69
2389.70	S	Average	32.63	0.92	33.55	54	-20.45
2390.00	E	Peak	43.60	0.92	44.53	74	-29.47
2390.00	Е	Average	32.62	0.92	33.54	54	-20.46

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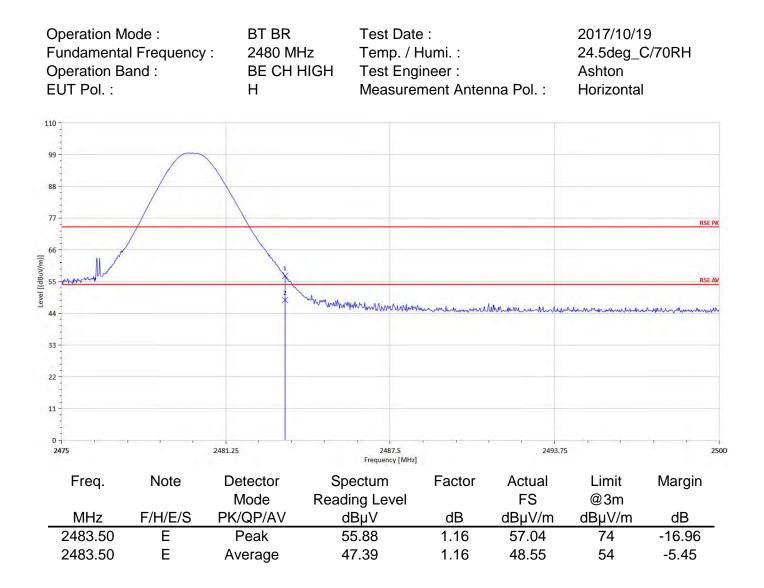




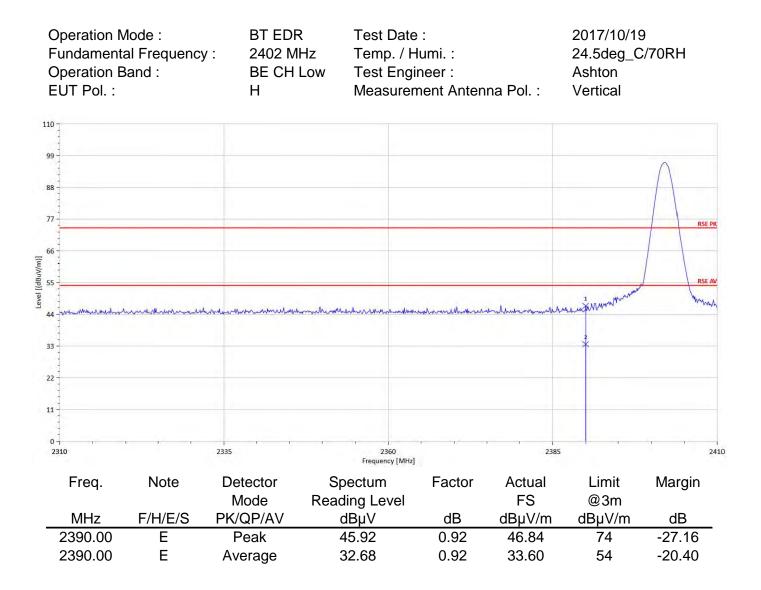




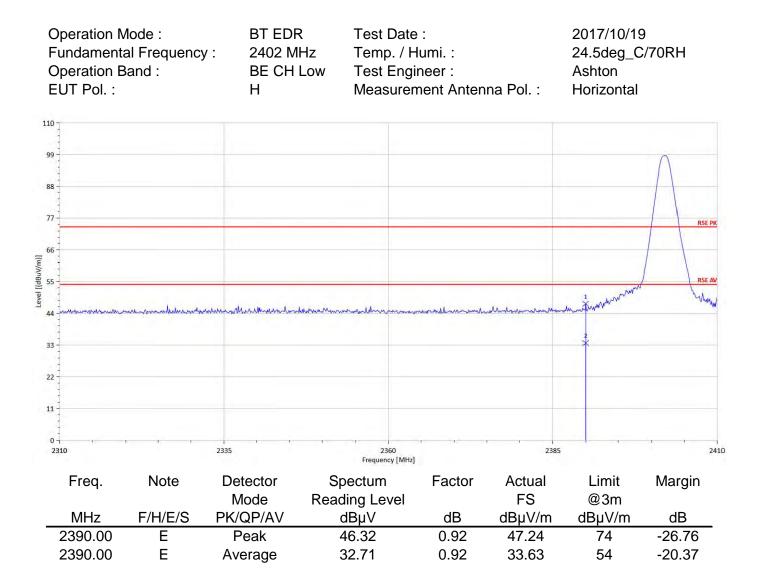




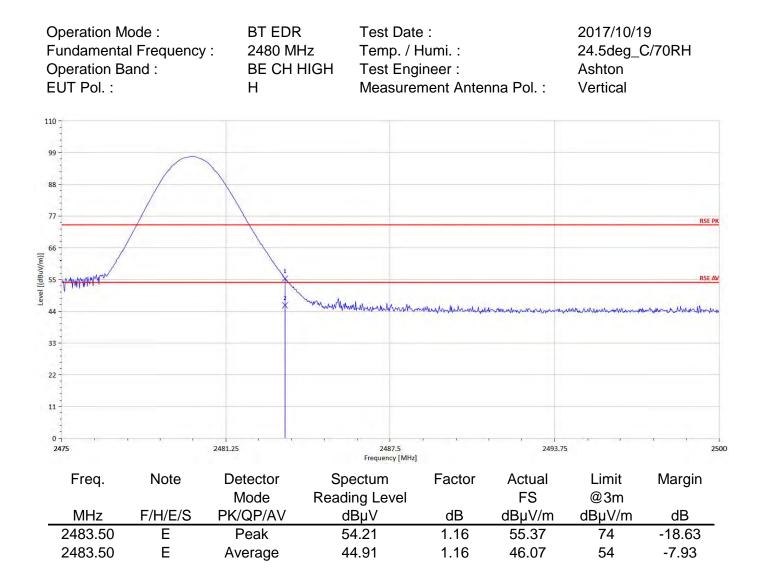




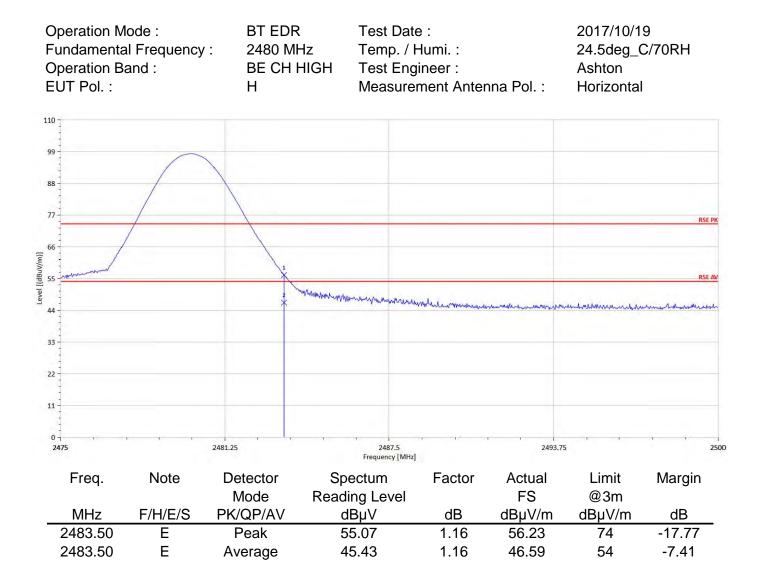










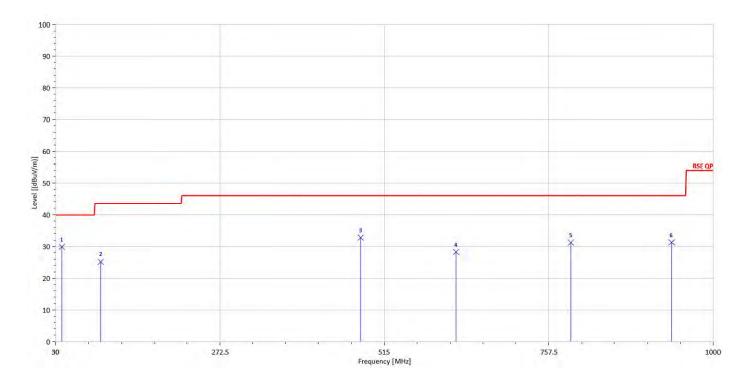




Radiated Spurious Emission Measurement Result: (Worst Case)

For Frequency form 30MHz to 1000MHz

Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Vertical

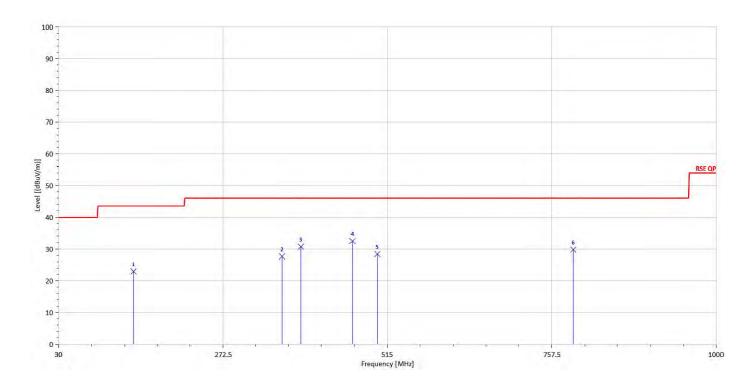


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
39.70	S	Peak	42.51	-12.63	29.88	40	-10.12
96.93	S	Peak	43.49	-18.27	25.22	43.5	-18.28
480.08	S	Peak	40.57	-7.81	32.77	46	-13.23
620.73	S	Peak	34.72	-6.50	28.22	46	-17.78
790.48	S	Peak	35.34	-4.13	31.22	46	-14.78
938.89	S	Peak	33.03	-1.77	31.27	46	-14.73

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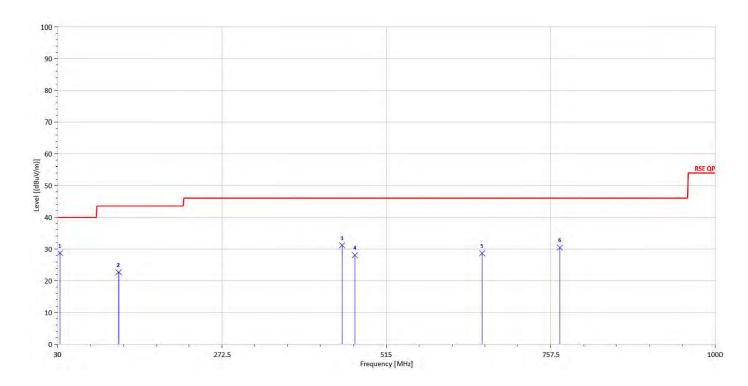
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
140.58	S	Peak	39.14	-16.17	22.97	43.5	-20.53
359.80	S	Peak	38.84	-11.20	27.64	46	-18.36
387.93	S	Peak	40.78	-10.09	30.69	46	-15.31
463.59	S	Peak	40.55	-8.07	32.47	46	-13.53
500.45	S	Peak	35.89	-7.53	28.37	46	-17.63
789.51	S	Peak	33.95	-4.18	29.77	46	-16.23



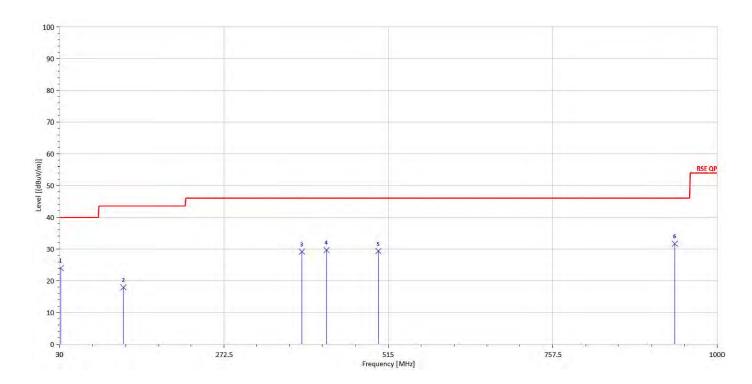
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2441 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH MID	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
33.88	S	Peak	37.97	-9.27	28.69	40	-11.31
120.21	S	Peak	38.55	-15.84	22.71	43.5	-20.79
450.01	S	Peak	39.77	-8.64	31.13	46	-14.87
468.44	S	Peak	35.67	-7.66	28.01	46	-17.99
656.62	S	Peak	33.55	-4.96	28.59	46	-17.41
771.08	S	Peak	34.76	-4.35	30.41	46	-15.59



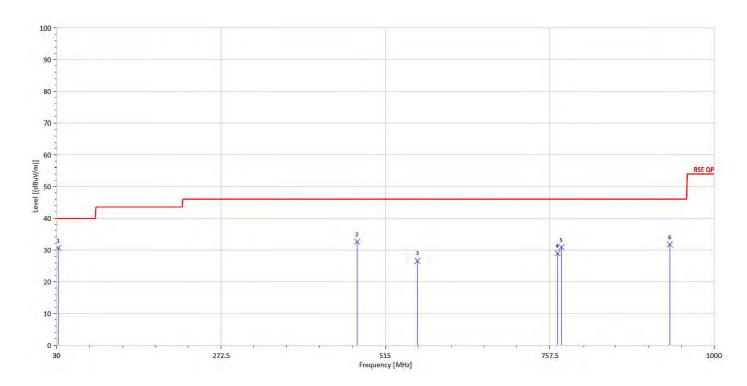
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2441 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH MID	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	32.23	-8.22	24.01	40	-15.99
124.09	S	Peak	33.63	-15.75	17.88	43.5	-25.62
387.93	S	Peak	39.23	-10.09	29.14	46	-16.86
423.82	S	Peak	38.94	-9.30	29.64	46	-16.36
500.45	S	Peak	36.84	-7.53	29.31	46	-16.69
937.92	S	Peak	33.34	-1.71	31.63	46	-14.37



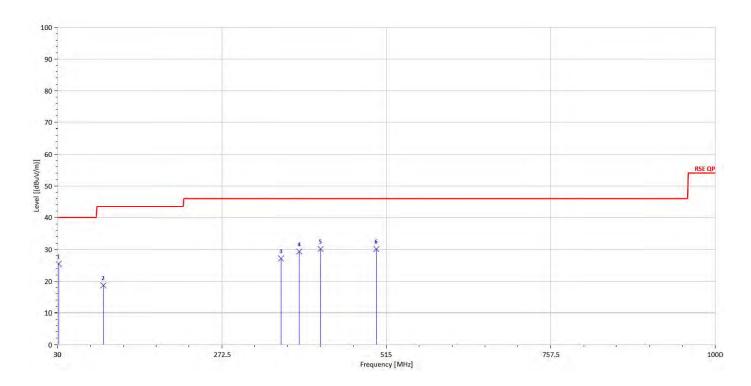
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH HIGH	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
32.91	S	Peak	39.40	-8.75	30.66	40	-9.34
473.29	S	Peak	40.61	-7.99	32.62	46	-13.38
562.53	S	Peak	32.87	-6.30	26.57	46	-19.43
769.14	S	Peak	33.16	-4.24	28.92	46	-17.08
774.96	S	Peak	35.60	-4.75	30.85	46	-15.15
935.01	S	Peak	33.34	-1.59	31.75	46	-14.25



Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH HIGH	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Horizontal

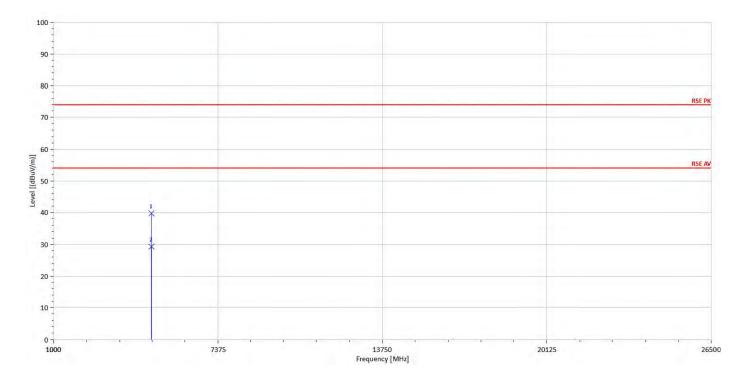


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	33.64	-8.22	25.42	40	-14.58
97.90	S	Peak	36.80	-18.10	18.70	43.5	-24.80
359.80	S	Peak	38.32	-11.20	27.12	46	-18.88
386.96	S	Peak	39.46	-10.15	29.31	46	-16.69
418.00	S	Peak	39.04	-8.91	30.14	46	-15.86
500.45	S	Peak	37.63	-7.53	30.10	46	-15.90



Radiated Spurious Emission Measurement Result: For Frequency above 1 GHz

Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Vertical

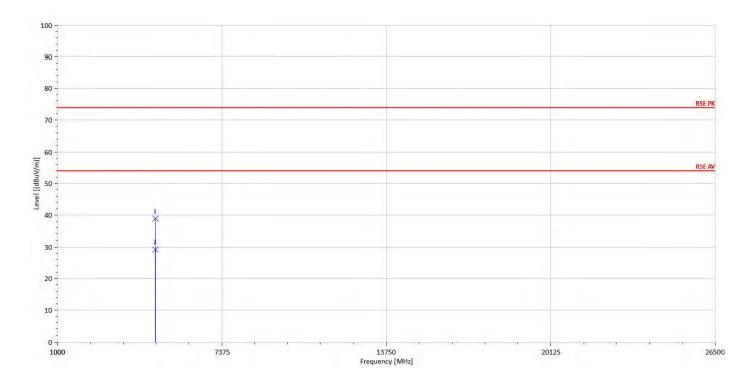


Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.00	Н	Peak	32.07	7.66	39.73	74	-34.27
4804.00	Н	Average	21.63	7.66	29.29	54	-24.71

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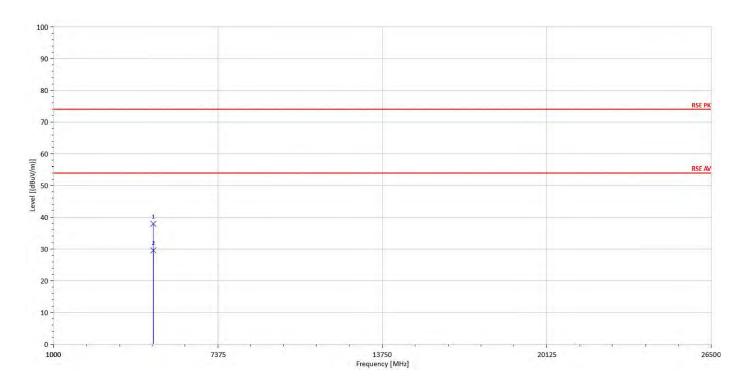
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4804.00	Н	Peak	31.30	7.66	38.95	74	-35.05
4804.00	Н	Average	21.55	7.66	29.21	54	-24.79



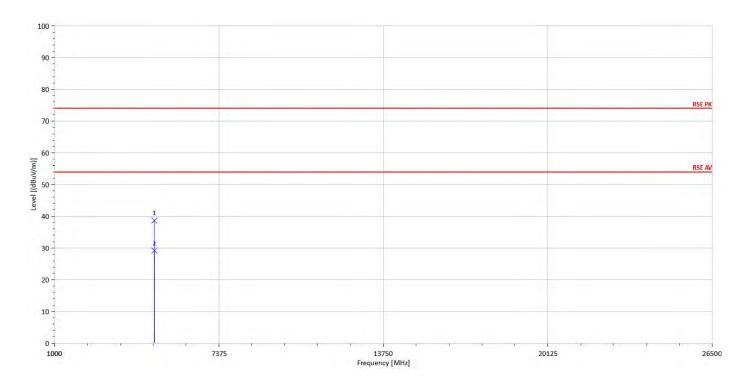
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2441 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH MID	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@3m		
_	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
	4882.00	Н	Peak	30.30	7.70	38.00	74	-36.00	
	4882.00	Н	Average	21.84	7.70	29.54	54	-24.46	



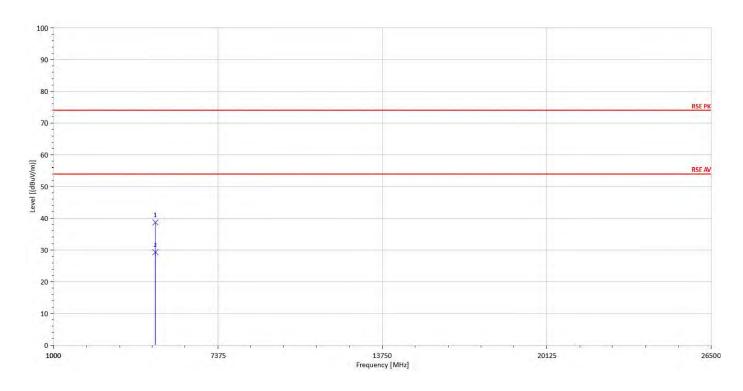
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2441 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH MID	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4882.00	Н	Peak	31.03	7.70	38.73	74	-35.27
4882.00	Н	Average	21.45	7.70	29.15	54	-24.85



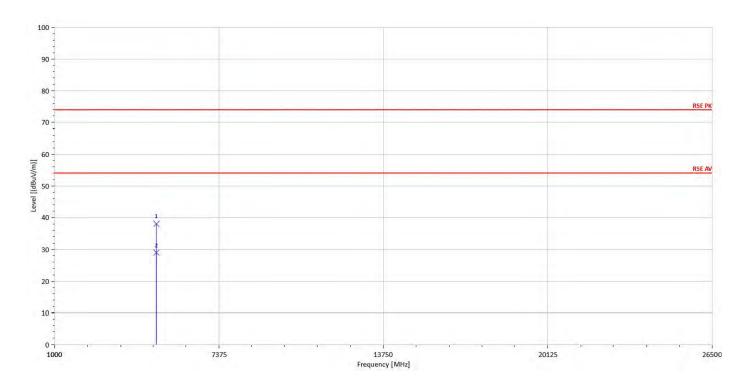
Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH HIGH	Test Engineer :	Ashton
EUT Pol. :	Н	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4960.00	Н	Peak	31.06	7.69	38.75	74	-35.25
4960.00	Н	Average	21.58	7.69	29.27	54	-24.73



Operation Mode :	BT BR	Test Date :	2017/10/19
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	Tx CH HIGH	Test Engineer :	Ashton
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	dBµV	dB	dBµV/m	dBµV/m	dB
4960.00	Н	Peak	30.42	7.69	38.11	74	-35.89
4960.00	Н	Average	21.29	7.69	28.98	54	-25.02



11 FREQUENCY SEPARATION

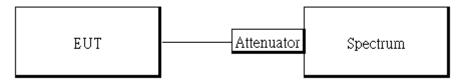
11.1 Standard Applicable

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.		
ТҮРЕ		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018		
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018		
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018		
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018		
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017		
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017		
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017		
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017		
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018		

11.3 Test Set-up



11.4 Measurement Procedure

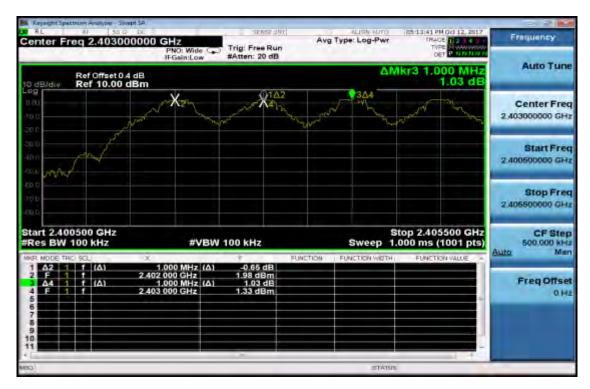
- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum 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.



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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12 NUMBER OF HOPPING FREQUENCY

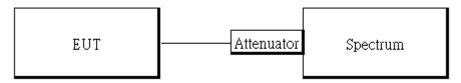
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.		
ТҮРЕ		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018		
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018		
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018		
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018		
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017		
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017		
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017		
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017		
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018		

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.



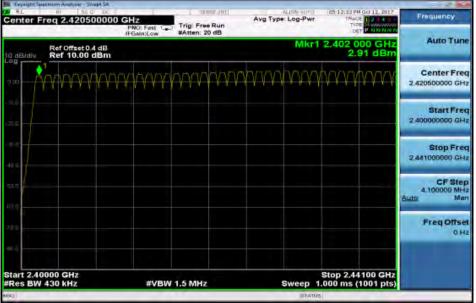
12.5 Measurement Result

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	

Channel Number

2.4 GHz – 2.441GHz



2.441 GHz - 2.4835GHz



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13 TIME OF OCCUPANCY (DWELL TIME)

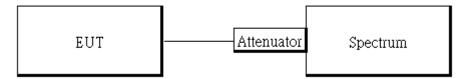
13.1 Standard Applicable

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	EQUIPMENT MFR		SERIAL	LAST	CAL DUE.		
ТҮРЕ		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018		
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018		
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018		
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018		
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017		
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017		
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017		
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017		
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018		

13.3 Test Set-up



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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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13.5 Tabular Result of the Measurement

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	DH1	121.50	400ms
0	DH3	261.92	400ms
	DH5	308.16	400ms
39	DH1	122.50	400ms
	DH3	260.48	400ms
	DH5	308.16	400ms
	DH1	121.09	400ms
78	DH3	261.28	400ms
	DH5	308.16	400ms

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
39	2DH1	122.91	400ms
	2DH3	263.36	400ms
	2DH5	308.16	400ms

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)
	3DH1	123.90	400ms
39	3DH3	261.92	400ms
	3DH5	308.16	400ms



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

GFSK (1Mbps):

CH Low	DH1 time slot =		· /		121.50 (ms)
	DH3 time slot $=$	1.637 *	(1600/4/79) *	31.6 =	261.92 (ms)
	DH5 time slot =	2.889 *	(1600/6/79) *	31.6 =	308.16 (ms)
CH Mid	DH1 time slot =	0.383 *	(1600/2/79) *	31.6 =	122.50 (ms)
	DH3 time slot =	1.628 *	(1600/4/79) *	31.6 =	260.48 (ms)
	DH5 time slot =	2.889 *	(1600/6/79) *	31.6 =	308.16 (ms)
CH High	DH1 time slot =	0.378 *	(1600/2/79) *	31.6 =	121.09 (ms)
-	DH3 time slot =	1.633 *	(1600/4/79) *	31.6 =	261.28 (ms)
	DH5 time slot =	2.889 *	(1600/6/79) *	31.6 =	308.16 (ms)

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

CH Mid	2DH1 time slot=	0.384 *	(1600/2/79) *	31.6 =	122.91 (ms)
	2DH3 time slot=	1.646 *	(1600/4/79) *	31.6 =	263.36 (ms)
	2DH5 time slot=	2.889 *	(1600/6/79) *	31.6 =	308.16 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot=	0.387 *	(1600/2/79) *	31.6 =	123.90 (ms)
	3DH3 time slot=	1.637 *	(1600/4/79) *	31.6 =	261.92 (ms)
	3DH5 time slot=	2.889 *	(1600/6/79) *	31.6 =	308.16 (ms)

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GFSK (1Mbps) for AFH Mode						
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)			
20	DH5	154.08	400ms			
π/4 DQPSK (2Mbps) for AFH Mode						
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)			
20	2DH5	154.08	400ms			
8-DPSK (3Mbps) for AFH Mode						
Hopping Channel Number	PACKET TYPE	Measurement Result (ms)	Limit (ms)			
20	3DH5	154.08	400ms			

GFSK (1Mbps):

DH5 time sI =	2.889	(ms)	*	(800/6/20)* 8 =	154.08	(ms)
π/4 -DQPSK (2Mbps						
2DH5 time :=	2.889	(ms)	*	(800/6/20)* 8 =	154.08	(ms)
8-DPSK (3Mbps):						
3DH5 time :=	2.889	(ms)	*	(800/6/20)* 8 =	154.08	(ms)

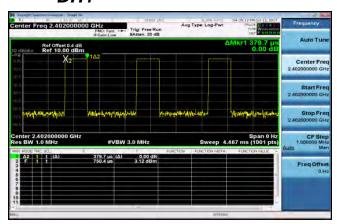
13.6 Measurement Result

Note: Refer to next page for plots.

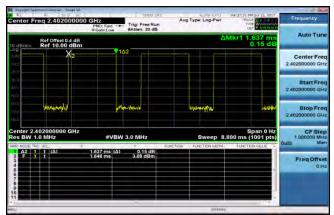
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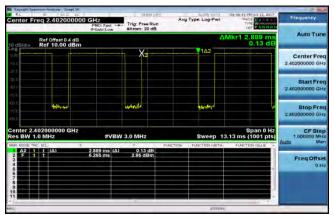
CH-Low DH1



DH3

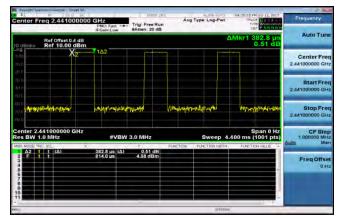


DH5

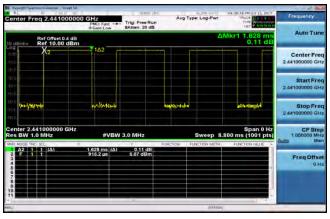


CH-Mid

DH1



DH3





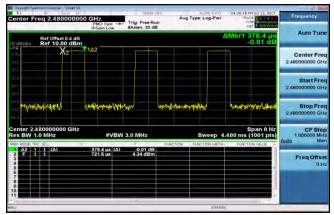
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0 dB/div	Ref	Offset 0.	4 dB dBm					AMkr1 2	.889 ms 0.06 dB	Auto Tune
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	Ť	(Δ)		2.889 ms 3.699 ms	ίΔ) 0.05 4.99 d				-	Freq Offse 0 H
Δ2 2 F 3 4 5 6										
2345										

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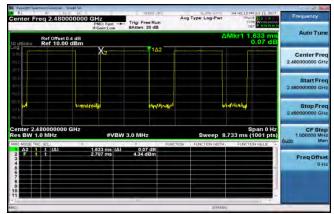
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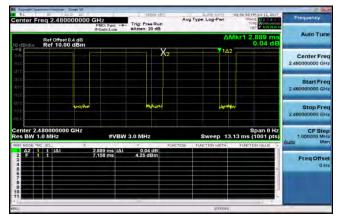
CH-High DH1



DH3

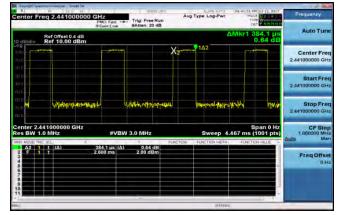


DH5

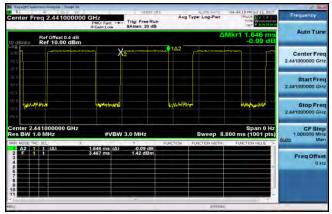


CH-Mid

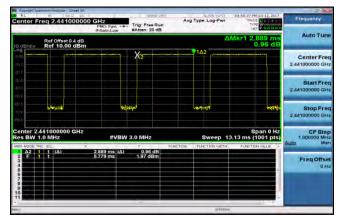
2DH1



2DH3



2DH5



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.

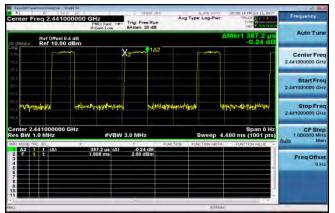
Chiefwise stated the results shown in this test report refer only to the sample(s) tested and storp in an refer of a refer to a refer of a re pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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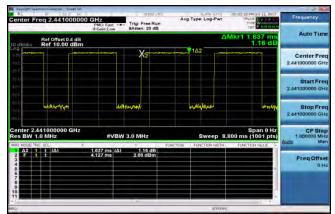


CH-Mid

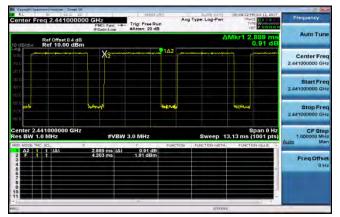




3DH3



3DH5



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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.

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.

14.2 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 ~

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