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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Product Name: 2.4G wireless microphone

Brand Name: dynamike

NT205 Model No.:

Model Difference: N/A

FCC ID: WOUNT205

Report No.: E2/2017/90001

Sep. 26, 2017 **Issue Date:**

FCC Rule Part: §15.249

NEATRON CORPORATION **Prepared for:**

5F., No.515, Sec. 3, Ming Chih

Taishan Dist., New Taipei City 243, Taiwan

(R.O.C.)

SGS Taiwan Ltd. Prepared by:

Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township,

Taoyuan County, Taiwan 333





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VERIFICATION OF COMPLIANCE

NEATRON CORPORATION

Applicant: 5F., No.515, Sec. 3, Ming Chih Rd., Taishan Dist., New Taipei

City 243, Taiwan (R.O.C.)

Product Name: 2.4G wireless microphone

Brand Name: dynamike

Model No.: NT205

Model Difference: N/A

FCC ID: WOUNT205

E2/2017/90001 File Number:

Date of test: Sep. 01, 2017 ~ Sep. 21, 2017

Date of EUT Received: Sep. 01, 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.

Test By:	Vit	Date:	Sep. 26, 2017
Prepared By:	Vito Pei / Sr. Engineer Tiffany Kao	Date:	Sep. 26, 2017
Approved By:	Tiffany Kao / Clerk Jim Chang / Asst. Manager	Date:	Sep. 26, 2017

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/90001	Rev.00	Initial creation of document	Sep. 26, 2017

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GENERAL INFORMATION

1.1 Product Description

General:

<u> </u>			
Product Name:	2.4G wireless microphone		
Brand Name:	dynamike		
Model No.:	NT205		
Model Difference:	N/A		
USB Cable:	Model No.: N/A, Supplier: N/A		
Microphone:	Model No.: N/A, Supplier: N/A		
Hardware Version:	N/A		
Software Version:	N/A		
Operation Frequency:	2403MHz ~ 2479MHz		
Channel number:	32 channels		
Modulation Type:	FSK(GFSK)		
Power Supply:	3.7Vdc from Rechargeable Li-polymer Battery or 5V from USB cable		
. 3.131 Supply.	Battery: Model No.: N/A, Supplier: N/A		
Antenna Designation:	Internal Antenna, Peak Gain: 0dBi		

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Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249 ANSI C63.10:2013

Note:

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

Test Facility

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

FCC Registration Numbers are: 735305

1.4 Special Accessories

There are no special accessories used while test was conducted.

Equipment Modifications 1.5

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

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 plane. 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 80 cm above the reference ground plane. 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.

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.

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2.5 Limitation

(1) Conducted Emission

Conducted Emission Limits is as following.

Frequency (MHz)	Conducted	Limit (dBuV)
(IVITZ)	Quasi-Peak	Average
0.15 – 0.5	66 - 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) Radiated Emission

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency	Field strength of	Field strength of	Distance (m)
(MHz)	Fundamental	Harmonics	
902 – 928	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
2400 – 2483.5	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
5725 – 5875	50 mV/m	500 uV/m	3
	(94dBuV/m)	(54dBuV/m)	
24.0 – 24.25 GHz	250 mV/m	2500 uV/m	3
	(107.95dBuV/m)	(67.95dBuV/m)	

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(3) Radiated Emission

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits as below, whichever is the lesser attenuation.

Frequency	Field strength	Distance (m)	Field strength at
(MHz)	μ V/m		3m dBμV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

(4) Radiated Emission

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak filed strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Re-

1. Emission level in dBuV/m=20 log (uV/m)

mark:

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205 and RSS-Gen § 8.10
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ15.205 and RSS-Gen § 8.10, then the general radiated emission limits in ξ 15.209 and RSS-Gen § 8.9 apply.

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2.6 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration



Fig. 2-3 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Mod- el/Type No.	Series No.	Data Cable	Power Cord
1.	2.4GHz Wireless Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	P0000081	Shielded	Unshielded

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SUMMARY OF TEST RESULTS

FCC Rules Description Of Test		Result
§15.207(a)	AC Power Line Conducted Emission	N/A
§15.249(a)(d)(e) Radiated Emission		Compliant
§15.215(c)	20dB Bandwidth Measurement	Compliant

DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

32 channels are provided.

annoid are provided.	
Channel	Frequency
0	2403, 2446
1	2405, 2450
2	2407, 2452
3	2409, 2454
4	2411, 2456
5	2413, 2458
6	2418, 2460
7	2420, 2462
8	2422, 2466
9	2424, 2468
10	2426, 2470
11	2428, 2474
12	2436, 2476
13	2438, 2479
14	2442, 2415
15	2432, 2472

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

ADIATED EMILOGION TEOT.							
	RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
2.4G	0~31	2403, 2442, 2479	FSK(GFSK)	N/A	MAIN		
	RADIATED	EMISSION TES	ST (ABOVE 1 GH	z)			
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
2.4G	0~31	2403, 2442, 2479	FSK(GFSK)	N/A	MAIN		

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 2.4GHz Wireless Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED FREQUENCY	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
2.4G	0~31	2403, 2442, 2479	FSK(GFSK)	N/A	MAIN	

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
20dB & 99% Bandwidth	+/- 51.33 Hz
100 kHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

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

	9kHz – 30MHz: +/- 2.87 dB
Na accuracy and the containts	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB
(1 Glanzation : Horizontal)	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

Standard Applicable:

Frequency range within 150kHz 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		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	N30N30-1042-1	N/A	08/30/2017	08/29/2018				
LISN	Schwarzbeck	50cm 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 C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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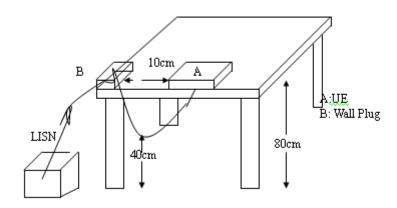
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

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

6.6 Measurement Result:

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

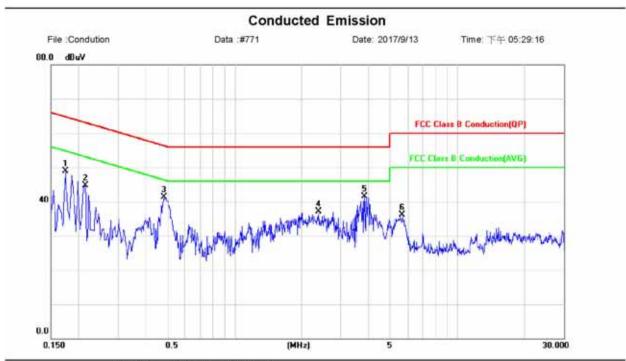
Operation Mode:	Operation mode		Test Date:	Sep. 13, 2017	
Temperature:	20	Humidity:	58 %	Test By:	Aken
				Phase:	L1

Temperature: 23 ℃ Conduction Room Phase: L1 Power: AC 120V/60Hz Humidity: 71 %

Limit: FCC Class B Conduction(QP)

NT201 Mode:

Note:



Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
0.1740	29.21	19.65	48.86	64.77	-15.91	peak		
0.2140	25.06	19.66	44.72	63.05	-18.33	peak		
0.4820	21.22	20.10	41.32	56.30	-14.98	peak		
2.3940	16.62	20.49	37.11	56.00	-18.89	peak		
3.8340	21.16	20.27	41.43	56.00	-14.57	peak		
5.6620	15.96	20.09	36.05	60.00	-23.95	peak		
	MHz 0.1740 0.2140 0.4820 2.3940 3.8340	Freq. Level MHz dBuV 0.1740 29.21 0.2140 25.06 0.4820 21.22 2.3940 16.62 3.8340 21.16	Freq. Level Factor MHz dBuV dB 0.1740 29.21 19.65 0.2140 25.06 19.66 0.4820 21.22 20.10 2.3940 16.62 20.49 3.8340 21.16 20.27	Freq. Level Factor ment MHz dBuV dB dBuV 0.1740 29.21 19.65 48.86 0.2140 25.06 19.66 44.72 0.4820 21.22 20.10 41.32 2.3940 16.62 20.49 37.11 3.8340 21.16 20.27 41.43	Freq. Level Factor ment Limit MHz dBuV dB dBuV dBuV 0.1740 29.21 19.65 48.86 64.77 0.2140 25.06 19.66 44.72 63.05 0.4820 21.22 20.10 41.32 56.30 2.3940 16.62 20.49 37.11 56.00 3.8340 21.16 20.27 41.43 56.00	Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB 0.1740 29.21 19.65 48.86 64.77 -15.91 0.2140 25.06 19.66 44.72 63.05 -18.33 0.4820 21.22 20.10 41.32 56.30 -14.98 2.3940 16.62 20.49 37.11 56.00 -18.89 3.8340 21.16 20.27 41.43 56.00 -14.57	Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB Detector 0.1740 29.21 19.65 48.86 64.77 -15.91 peak 0.2140 25.06 19.66 44.72 63.05 -18.33 peak 0.4820 21.22 20.10 41.32 56.30 -14.98 peak 2.3940 16.62 20.49 37.11 56.00 -18.89 peak 3.8340 21.16 20.27 41.43 56.00 -14.57 peak	Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dB Detector Comment 0.1740 29.21 19.65 48.86 64.77 -15.91 peak 0.2140 25.06 19.66 44.72 63.05 -18.33 peak 0.4820 21.22 20.10 41.32 56.30 -14.98 peak 2.3940 16.62 20.49 37.11 56.00 -18.89 peak 3.8340 21.16 20.27 41.43 56.00 -14.57 peak

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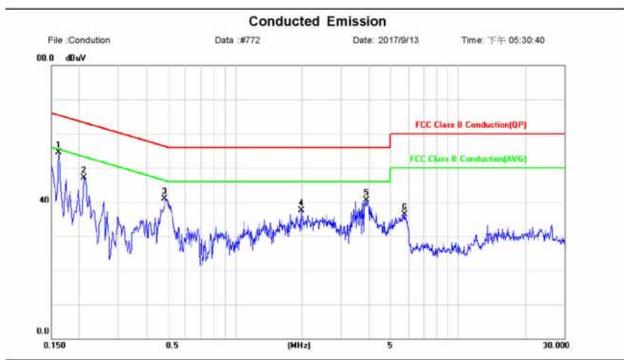
Humidity:

Temperature: Site: Conduction Room Phase: N

Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz

Mode: NT201

Note:



MHz	dBuV	7.5					
	ODU V	dB	dBuV	dBuV	dB	Detector	Comment
0.1620	34.96	19.50	54.46	65.36	-10.90	peak	
0.2100	27.55	19.51	47.06	63.21	-16.15	peak	
0.4860	20.89	19.97	40.86	56.24	-15.38	peak	
1.9860	17.03	20.41	37.44	56.00	-18.56	peak	
3.8820	20.33	20.12	40.45	56.00	-15.55	peak	
5.7900	16.39	19.95	36.34	60.00	-23.66	peak	
	1.9860 3.8820	1.9860 17.03 3.8820 20.33	1.9860 17.03 20.41 3.8820 20.33 20.12	1.9860 17.03 20.41 37.44 3.8820 20.33 20.12 40.45	1.9860 17.03 20.41 37.44 56.00 3.8820 20.33 20.12 40.45 56.00	1.9860 17.03 20.41 37.44 56.00 -18.56 3.8820 20.33 20.12 40.45 56.00 -15.55	1.9860 17.03 20.41 37.44 56.00 -18.56 peak 3.8820 20.33 20.12 40.45 56.00 -15.55 peak

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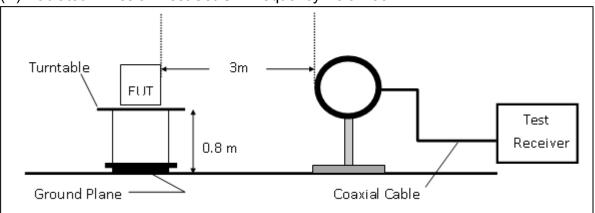
Radiated Emission Test

7.1. Measurement Procedure

- 1. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

7.2. Test SET-UP (Block Diagram of Configuration)

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



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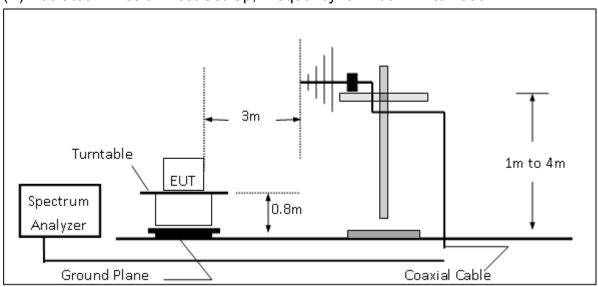
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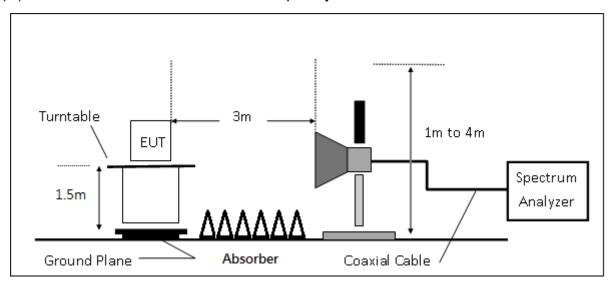


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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



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



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7.3. Measurement Equipment Used:

966 Chamber									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE	TYPE		NUMBER	CAL.					
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	08/01/2017	07/31/2018				
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+Suhno		RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017				
Coaxial Cable	Coaxial Cable Huber+Suhner Coaxial Cable Huber+Suhner		966Rx 1G-18G	12/12/2016	12/11/2017				
Coaxial Cable			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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7.4. 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)
		LU33)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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

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

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

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7.5. Measurement Result

Radiated Spurious Emission Measurement Result

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Test Engineer: Main CH Low Enzo

EUT Pol.: E2 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
2403.67	F	Peak	94.62	1.02	95.64	114	-18.36
2403.67	F	Average	50.23	1.02	51.25	94	-42.75

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg C/57RH

Test Engineer: Operation Band: Main CH Low

EUT Pol.: E2 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	dBμV/m	dB
2403.58	F	Peak	105.83	1.02	106.86	114	-7.14
2403.58	F	Average	53.85	1.02	54.87	94	-39.13

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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH Mid Test Engineer: Enzo EUT Pol.: Measurement Antenna Pol.: Vertical F2

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
2442.06	F	Peak	94.46	0.83	95.29	114	-18.71
2442.06	F	Average	50.26	0.83	51.09	94	-42.91

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH Mid Test Engineer: Enzo

EUT Pol.: E2 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	dBμV/m	dB
	2442.05	F	Peak	105.39	0.83	106.22	114	-7.78
	2442.05	F	Average	56.39	0.83	57.22	94	-36.78

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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH High Test Engineer: Enzo EUT Pol.: Measurement Antenna Pol.: Vertical F2

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
2479.07	F	Peak	94.45	1.17	95.62	114	-18.38
2479.07	F	Average	51.71	1.17	52.88	94	-41.12

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH High Test Engineer: Enzo

EUT Pol.: E2 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	dBμV/m	dB
2479.06	F	Peak	105.43	1.17	106.60	114	-7.40
2479.06	F	Average	56.06	1.17	57.23	94	-36.77

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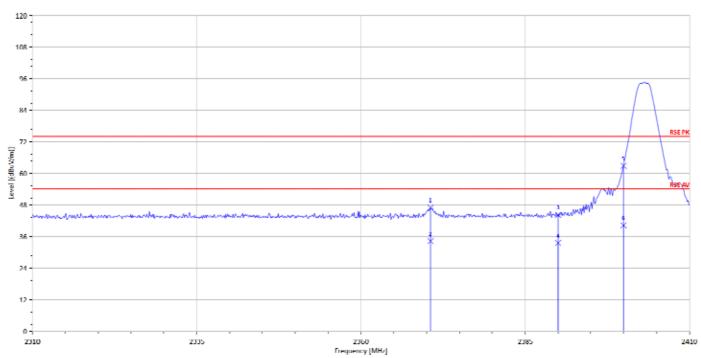
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Radiated Spurious Emission Measurement Result

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Enzo EUT Pol.: F2 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
2370.60	S	Peak	46.28	0.72	47.00	74	-27.00
2370.60	S	Average	33.44	0.72	34.16	54	-19.84
2390.00	Е	Peak	43.34	0.92	44.27	74	-29.73
2390.00	Е	Average	32.56	0.92	33.48	54	-20.52
2400.00	S	Peak	61.92	1.01	62.92	74	-11.08
2400.00	S	Average	39.23	1.01	40.24	54	-13.76

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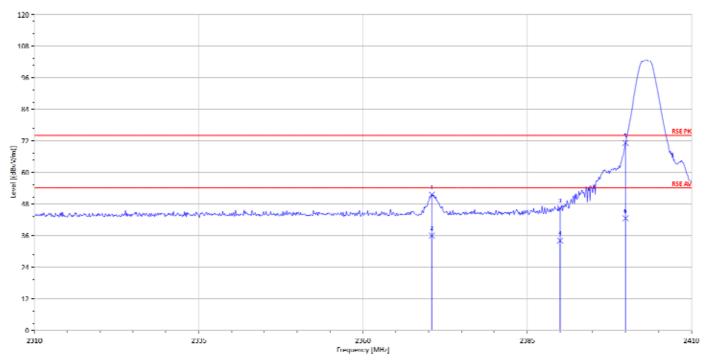
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Enzo

EUT Pol.: F2 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	dBµV/m	dB
2370.50	S	Peak	50.75	0.72	51.47	74	-22.53
2370.50	S	Average	35.21	0.72	35.93	54	-18.07
2390.00	Е	Peak	45.51	0.92	46.43	74	-27.57
2390.00	Е	Average	33.09	0.92	34.01	54	-19.99
2400.00	S	Peak	70.14	1.01	71.15	74	-2.85
2400.00	S	Average	41.55	1.01	42.56	54	-11.44

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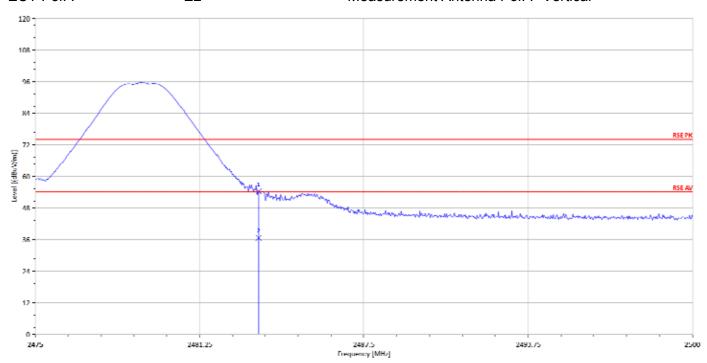


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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Enzo EUT Pol.: F2 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
2483.50) E	Peak	53.08	1.16	54.24	74	-19.76
2483.50) E	Average	35.43	1.16	36.59	54	-17.41

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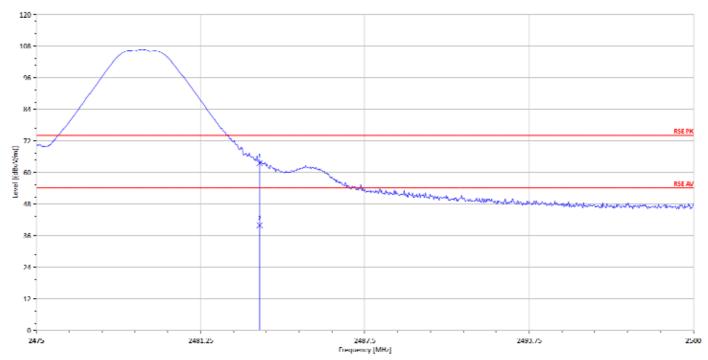
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Enzo

EUT Pol.: F2 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	dBµV/m	dB
	2483.50	Е	Peak	62.38	1.16	63.54	74	-10.46
	2483.50	Е	Average	38.74	1.16	39.90	54	-14.10

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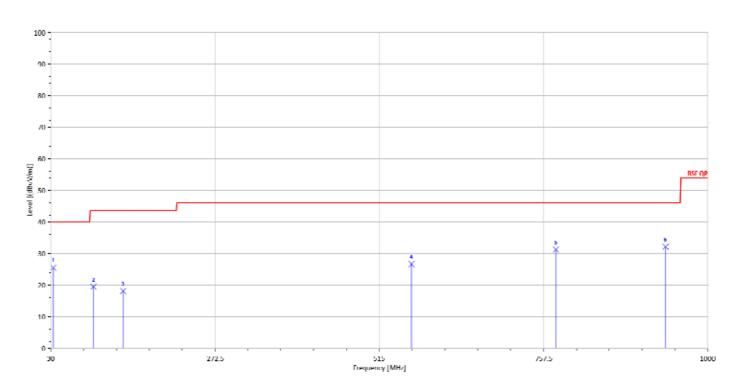
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Radiated Spurious Emission Measurement Result (Below 1GHz)

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Enzo EUT Pol.: F2 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
33.88	S	Peak	34.81	-9.27	25.54	40	-14.46
93.05	S	Peak	38.43	-18.95	19.48	43.5	-24.02
136.70	S	Peak	33.92	-15.82	18.10	43.5	-25.40
562.53	S	Peak	32.92	-6.30	26.62	46	-19.38
775.93	S	Peak	36.01	-4.80	31.21	46	-14.79
937.92	S	Peak	33.82	-1.71	32.11	46	-13.89

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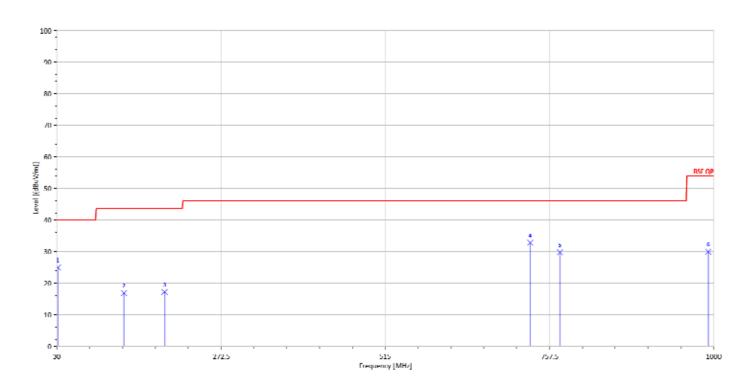
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Enzo

EUT Pol.: F2 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	dBμV/m	dB
31.94	S	Peak	33.19	-8.22	24.97	40	-15.03
128.94	S	Peak	32.42	-15.62	16.80	43.5	-26.70
189.08	S	Peak	35.55	-18.38	17.17	43.5	-26.33
729.37	S	Peak	37.40	-4.64	32.76	46	-13.24
773.02	S	Peak	34.28	-4.59	29.69	46	-16.31
992.24	S	Peak	30.64	-0.74	29.89	54	-24.11

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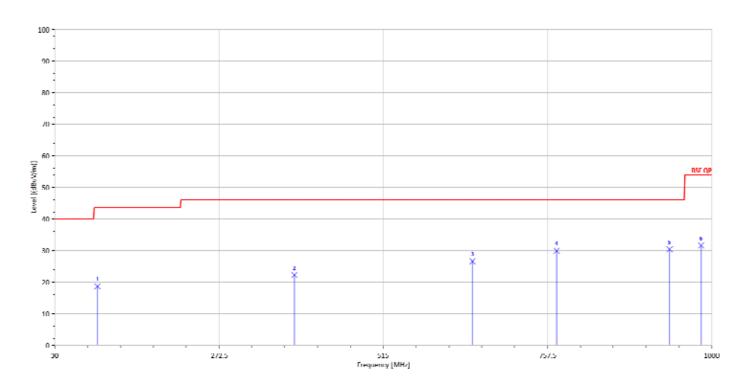


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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Enzo EUT Pol.: F2 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
93.05	S	Peak	37.58	-18.95	18.63	43.5	-24.87
384.05	S	Peak	32.55	-10.27	22.27	46	-23.73
646.92	S	Peak	31.48	-4.92	26.56	46	-19.44
771.08	S	Peak	34.24	-4.35	29.90	46	-16.10
937.92	S	Peak	32.06	-1.71	30.35	46	-15.65
984.48	S	Peak	32.35	-0.80	31.55	54	-22.45

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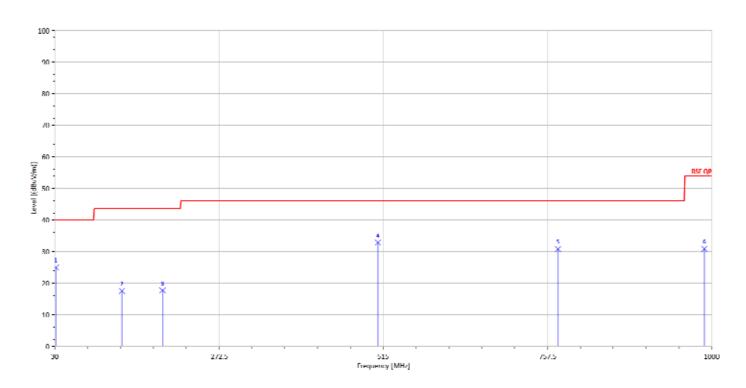
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Enzo

EUT Pol.: F2 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	dBµV/m	dB
31.94	S	Peak	33.19	-8.22	24.97	40	-15.03
128.94	S	Peak	33.11	-15.62	17.48	43.5	-26.02
189.08	S	Peak	36.04	-18.38	17.66	43.5	-25.84
507.24	S	Peak	40.76	-7.94	32.82	46	-13.18
773.02	S	Peak	35.31	-4.59	30.72	46	-15.28
989.33	S	Peak	31.46	-0.66	30.80	54	-23.20

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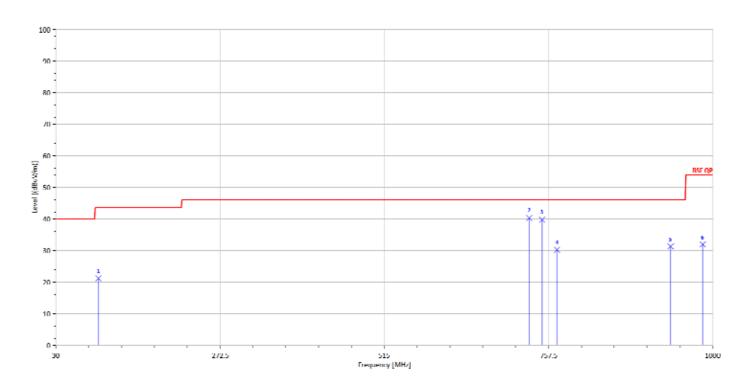


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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Enzo EUT Pol.: F2 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
93.05	S	Peak	40.17	-18.95	21.21	43.5	-22.29
729.37	S	Peak	45.01	-4.64	40.37	46	-5.63
747.80	S	Peak	43.95	-4.16	39.79	46	-6.21
770.11	S	Peak	34.53	-4.33	30.20	46	-15.80
937.92	S	Peak	32.99	-1.71	31.27	46	-14.73
985.45	S	Peak	32.62	-0.72	31.90	54	-22.10

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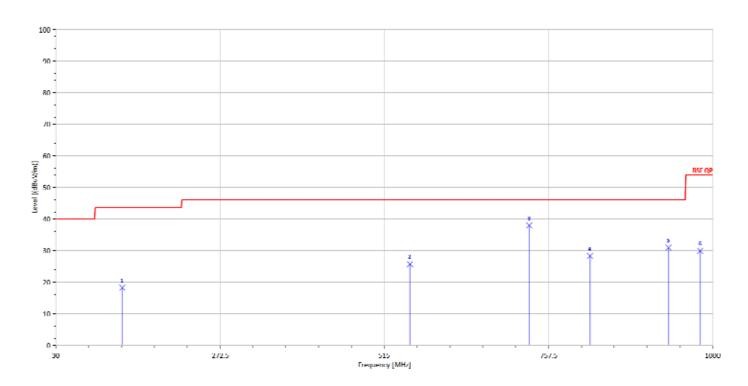
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Enzo

EUT Pol.: F2 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	dBμV/m	dB
127.97	S	Peak	33.82	-15.62	18.20	43.5	-25.30
552.83	S	Peak	32.52	-6.78	25.74	46	-20.26
729.37	S	Peak	42.63	-4.64	37.99	46	-8.01
818.61	S	Peak	31.24	-3.02	28.22	46	-17.78
935.01	S	Peak	32.47	-1.59	30.88	46	-15.12
981.57	S	Peak	30.78	-0.92	29.87	54	-24.13

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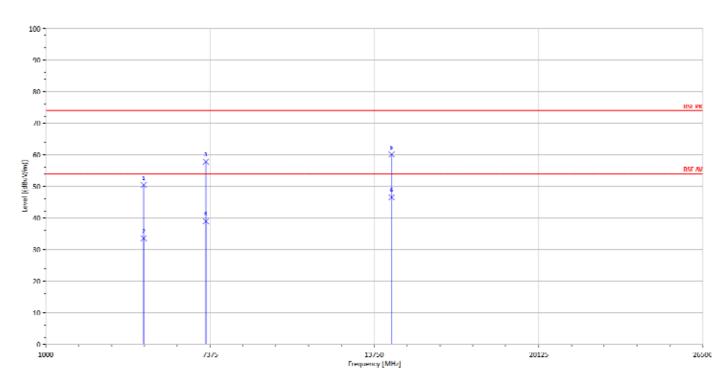
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Radiated Spurious Emission Measurement Result (Above 1GHz)

Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Enzo EUT Pol.: Measurement Antenna Pol.: Vertical F2



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
4806.00	Н	Peak	42.76	7.67	50.44	74	-23.56
4806.00	Н	Average	25.89	7.67	33.56	54	-20.44
7209.00	Н	Peak	42.90	14.85	57.75	74	-16.25
7209.00	Н	Average	24.17	14.85	39.02	54	-14.98
14418.00	Н	Peak	34.82	25.25	60.06	74	-13.94
14418.00	Н	Average	21.25	25.24	46.49	54	-7.51

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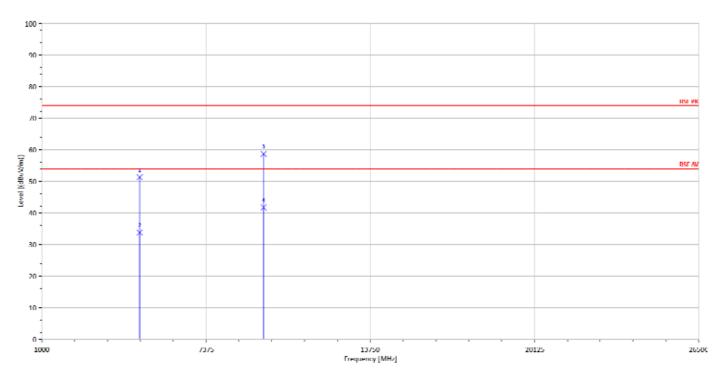
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2403 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Enzo

EUT Pol.: Measurement Antenna Pol.: Horizontal F2



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
4806.00	Н	Peak	43.66	7.67	51.34	74	-22.66
4806.00	Н	Average	26.12	7.67	33.79	54	-20.21
9612.00	Н	Peak	39.47	19.15	58.63	74	-15.37
9612.00	Н	Average	22.54	19.19	41.73	54	-12.27

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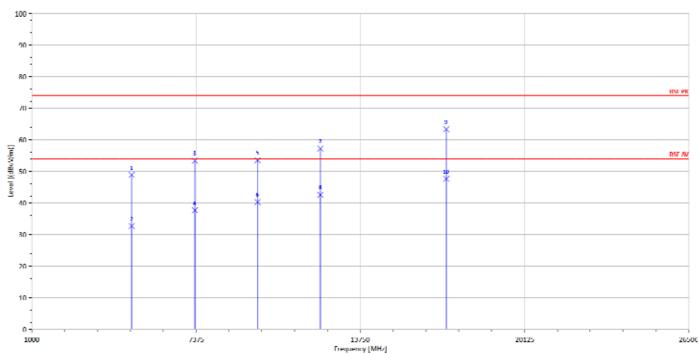


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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Enzo EUT Pol.: Measurement Antenna Pol.: Vertical F2



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
4884.00	Н	Peak	41.31	7.58	48.88	74	-25.12
4884.00	Н	Average	25.06	7.62	32.68	54	-21.32
7326.00	Н	Peak	38.61	14.78	53.39	74	-20.61
7326.00	Н	Average	22.92	14.80	37.72	54	-16.28
9768.00	Н	Peak	34.67	18.86	53.53	74	-20.47
9768.00	Н	Average	21.54	18.79	40.33	54	-13.67
12210.00	Н	Peak	36.12	21.05	57.17	74	-16.83
12210.00	Н	Average	21.46	21.05	42.51	54	-11.49
17094.00	Н	Peak	37.41	25.93	63.34	74	-10.66
17094.00	Н	Average	21.65	25.95	47.60	54	-6.40

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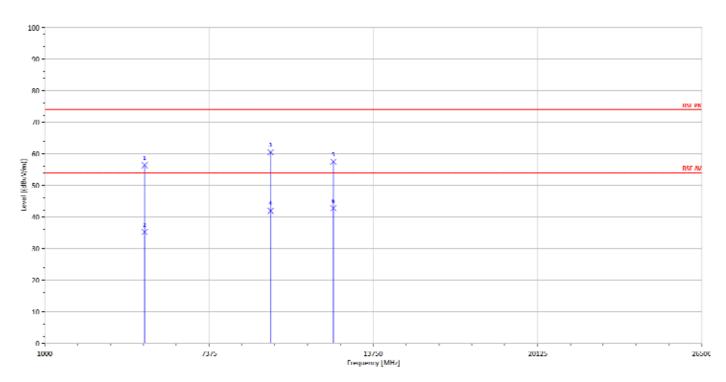
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2442 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Enzo

EUT Pol.: F2 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	dBµV/m	dB
4884.00	Н	Peak	48.79	7.58	56.37	74	-17.63
4884.00	Н	Average	27.63	7.62	35.25	54	-18.75
9768.00	Н	Peak	41.58	18.86	60.44	74	-13.56
9768.00	Н	Average	23.11	18.79	41.90	54	-12.10
12210.00	Н	Peak	36.38	21.05	57.43	74	-16.57
12210.00	Н	Average	21.65	21.05	42.70	54	-11.30

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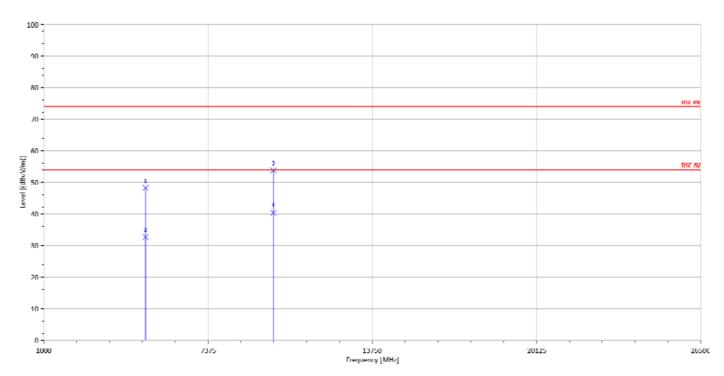


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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Enzo EUT Pol.: Measurement Antenna Pol.: Vertical F2



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
4958.00	Н	Peak	40.54	7.73	48.28	74	-25.72
4958.00	Н	Average	24.99	7.71	32.70	54	-21.30
9916.00	Н	Peak	35.28	18.53	53.81	74	-20.19
9916.00	Н	Average	21.74	18.66	40.40	54	-13.60

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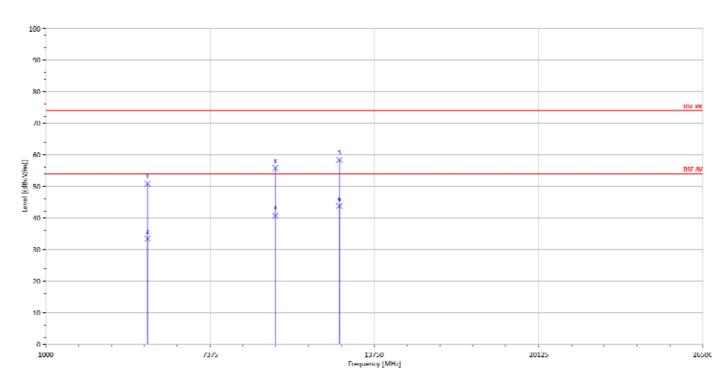
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Operation Mode: 2.4G Test Date: 2017/9/11

Fundamental Frequency: 2479 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Enzo

EUT Pol.: Measurement Antenna Pol.: Horizontal F2



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
4958.00	Н	Peak	43.19	7.68	50.87	74	-23.13
4958.00	Н	Average	25.72	7.71	33.43	54	-20.57
9916.00	Н	Peak	37.27	18.53	55.81	74	-18.19
9916.00	Н	Average	22.06	18.66	40.72	54	-13.28
12395.00	Н	Peak	35.98	22.32	58.30	74	-15.70
12395.00	Н	Average	21.46	22.24	43.70	54	-10.30

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20 dB Bandwidth Measurement

8.1 Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- Set ETU normal operating mode.
- 3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 5MHz.
- 4. Set SPA Max hold. Mark peak, -20dB.

8.2 Test SET-UP (Block Diagram of Configuration)

Refer to section 7.2 for the plot.

8.3 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	00100A1F1A195 C	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					

8.4 Measurement Results:

2.403GHz = 2.337MHz

2.442GHz = 2.357MHz

2.478GHz = 2.332MHz

Refer to attached data chart.

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20dB Bandwidth Test Plot (2.403GHz)



20dB Bandwidth Test Plot (2.442GHz)



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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488

www.tw.sqs.com



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20dB Bandwidth Test Plot (2.479GHz)



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SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488



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Antenna Requirement

9.1 **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.

9.2 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.

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SGS Taiwan Ltd.

f (886-2) 2298-0488