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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: 4.3" wireless monitor

Brand Name: Voyager

Model No.: WVOM43

Model Difference: N/A

FCC ID: **HQXWVOM43**

Report No.: E2/2016/50101

Issue Date: Jun. 28, 2016

FCC Rule Part: §15.249

Prepared for: SYSGRATION LTD.

6F-2., No.1, Sec.1, Tiding Blvd., Neihu Dist.,

Taipei City 114, Taiwan

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan Township, Taoyuan

County, Taiwan 333





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VERIFICATION OF COMPLIANCE

SYSGRATION LTD.

Applicant: 6F-2., No.1, Sec.1, Tiding Blvd., Neihu Dist., Taipei City 114, Taiwan

Product Name: 4.3" wireless monitor

Brand Name: Voyager

Model No.: WVOM43

Model Difference: N/A

FCC ID: HQXWVOM43

File Number: E2/2016/50101

Date of test: May. 30, 2016 ~ Jun. 28, 2016

Date of EUT Received: May. 30, 2016

We hereby certify that:

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

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

Test By:	Aken Huang	Date	Jun. 28, 2016
_	Aken Huang / Engineer		
Prepared By:	lun Tsou	Date	Jun. 28, 2016
Approved By:	Yuri Tsai / Clerk Jim Chang / Asst. Manager	Date	Jun. 28, 2016

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/50101	Rev.00	Initial creation of document	Jun. 28, 2016

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GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	4.3"wireless monitor
Brand Name:	Voyager
Model No.:	WVOM43
Model Difference:	N/A
Product SW/HW version:	198/ V2.3
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Wired camera cable:	Model No: CL-4113-01-1R, Supplier: TUNG SHU MEI INDUSTRIAL CO., Ltd.
Power Supply:	12Vdc
Antenna Designation:	Dipole Antenna, Peak Gain: 2.98dBi

2.4GHz

Transmit Power	111.89dBuV/m (Peak)
Operation Frequency:	2403 ~ 2478MHz
Channel number:	26 channels
Channel space:	3MHz
Modulation Type:	QPSK

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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.
- The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

Test Facility 1.3

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

FCC Registration Numbers are: 735305

Canada Registration Number: 4260A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

Equipment Modifications

There was no modification incorporated into the EUT.

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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 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.

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.

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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 (MHz)	Field strength µV/m	, ,	
(1011 12)	μΨ/ΙΙΙ		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.
- 3. 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 £15.205 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

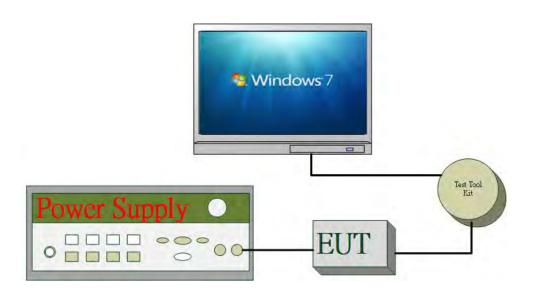


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/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	L440	R9-007LAZ	Shielded	Un-shielded
3.	DC Power Supply	Agilent	E3630A	MY5314000 6	N/A	Un-Shielded
4.	Test tool kit	N/A	N/A	N/A	N/A	N/A

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SUMMARY OF TEST RESULTS

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

DESCRIPTION OF TEST MODES

4.1 Operated in 2405 ~ 2477MHz Band

26 channels are provided.

	20 onarmolo die provided.						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403MHz	8	2424MHz	15	2445MHz	22	2466MHz
2	2406MHz	9	2427MHz	16	2448MHz	23	2469MHz
3	2409MHz	10	2430MHz	17	2451MHz	24	2472MHz
4	2412MHz	11	2433MHz	18	2454MHz	25	2475MHz
5	2415MHz	12	2436MHz	19	2457MHz	26	2478MHz
6	2418MHz	13	2439MHz	20	2460MHz		
7	2421MHz	14	2442MHz	21	2463MHz		

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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:

	<u> </u>						
RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
2.4G	1 to 26	1,14,26	QPSK	2	MAIN		
	RADIATED	EMISSION TES	ST (ABOVE 1 GH	z)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
2.4G	1 to 26	1,14,26	QPSK	2	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 Bluetooth LE Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
2.4G	1 to 26	1,14,26	QPSK	2	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: +/-2.87dB		
	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: +/-2.87dB		
Magaziramantungartaintu	30MHz - 167MHz: +/- 4.22dB		
Measurement uncertainty (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB		
(1 dianzanori : Horizortar)	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

6.1 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	12/12/2015	12/11/2016				
Coaxial Cables	N/A	N30N30-1042-1 50cm	N/A	02/07/2016	02/06/2017				
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017				
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2016	03/03/2017				

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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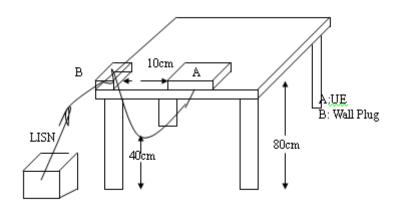
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6.4 Test SET-UP (Block Diagram of Configuration)



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:**

N/A,

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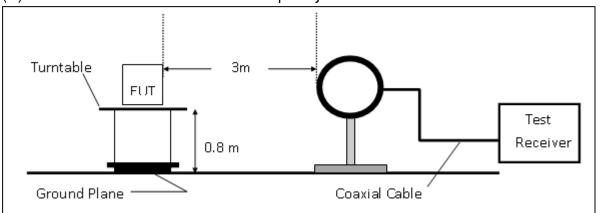
Radiated Emission Test

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.

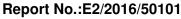


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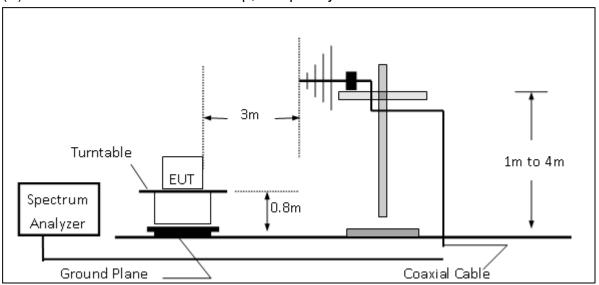
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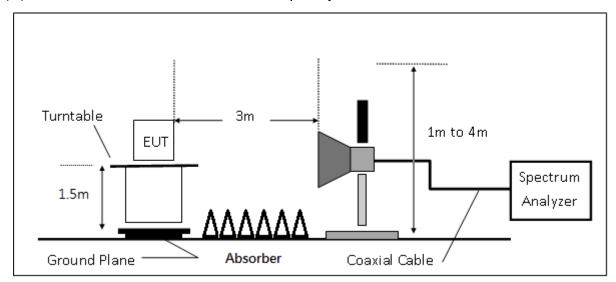
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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(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		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017				
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016				
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016				
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016				
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016				
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016				
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016				
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016				
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016				
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016				
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016				
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016				
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016				
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016				
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016				
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016				
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017				
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017				
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017				
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	G	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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

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

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

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

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7.5. Measurement Result

Radiated Spurious Emission Measurement Result (MAIN)

Operation Mode: 2.4G Test Date: 2016/6/18

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

Operation Band: Test Engineer: Main CH Low Pony EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2402.98	F	Peak	110.87	1.02	111.89	114	-2.11
2402.98	F	Average	58.25	1.02	59.27	94	-34.73

Operation Mode: 2.4G Test Date: 2016/6/18

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

Operation Band: Main CH Low Test Engineer: Pony 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
2402.29	F	Peak	105.44	1.02	106.45	114	-7.55
2402.29	F	Average	56.90	1.02	57.92	94	-36.08

2.4G 2016/6/18 Operation Mode: Test Date:

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

Operation Band: Main CH Mid Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: E2 Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
2441.93	F	Peak	110.53	0.83	111.35	114	-2.65
2441.93	F	Average	58.38	0.83	59.21	94	-34.79

Operation Mode: 2.4G Test Date: 2016/6/18

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

Main CH Mid Operation Band: Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2441.20	F	Peak	104.72	0.83	105.56	114	-8.44
2441.20	F	Average	56.96	0.83	57.79	94	-36.21

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Operation Mode: Test Date: 2.4G 2016/6/18

Fundamental Frequency: 2478 MHz Temp. / Humi.: 22.7deg_C/57RH

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

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2477.23	F	Peak	96.76	1.16	97.92	114	-16.08
2477 23	F	Average	50.25	1 16	51 41	94	-42 59

Operation Mode: 2.4G Test Date: 2016/6/18

Fundamental Frequency: 2478 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Main CH High Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol.: Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2478.01	F	Peak	84.94	1.17	86.10	114	-27.90
2478.01	F	Average	44.94	1.17	46.11	94	-47.89

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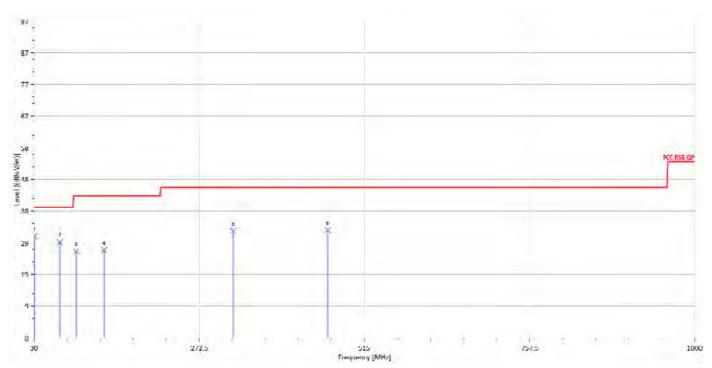
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Radiated Spurious Emission Measurement Result

Operation Mode: 2.4G Test Date: 2016/6/18

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

Operation Band: Tx CH Low Test Engineer: Pony EUT Pol.: E2 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
30.97	S	Peak	38.78	-7.70	31.08	40	-8.92
67.83	S	Peak	51.37	-22.09	29.28	40	-10.72
92.08	S	Peak	45.65	-19.12	26.53	43.5	-16.97
132.82	S	Peak	42.64	-15.76	26.87	43.5	-16.63
322.94	S	Peak	44.67	-11.99	32.68	46	-13.32
461.65	S	Peak	41.14	-8.16	32.98	46	-13.02

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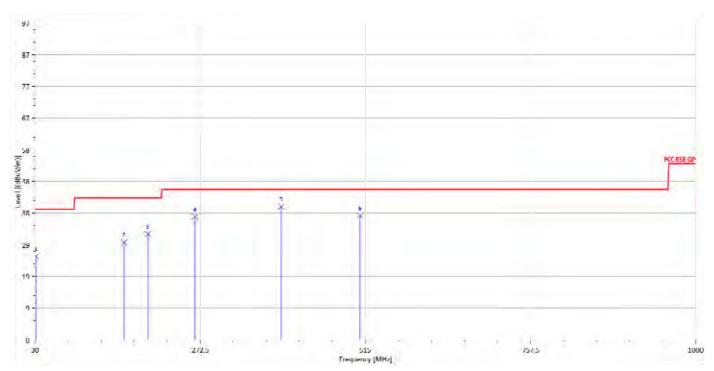


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Operation Mode: 2.4G Test Date: 2016/6/18

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

Operation Band: Tx CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	33.87	-8.22	25.65	40	-14.35
160.95	S	Peak	47.52	-17.63	29.88	43.5	-13.62
195.87	S	Peak	50.18	-17.80	32.38	43.5	-11.12
264.74	S	Peak	51.47	-13.76	37.71	46	-8.29
391.81	S	Peak	50.82	-10.01	40.81	46	-5.19
507.24	S	Peak	45.93	-7.94	37.99	46	-8.01

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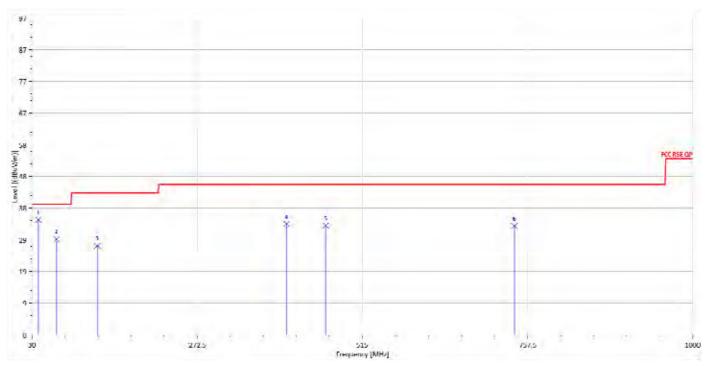


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Operation Mode: 2.4G Test Date: 2016/6/18

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

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
39.70	S	Peak	47.83	-12.63	35.21	40	-4.79
65.89	S	Peak	51.64	-22.29	29.35	40	-10.65
126.03	S	Peak	42.93	-15.65	27.28	43.5	-16.22
403.45	S	Peak	43.58	-9.65	33.93	46	-12.07
461.65	S	Peak	41.61	-8.16	33.44	46	-12.56
738.10	S	Peak	37.57	-4.25	33.32	46	-12.68

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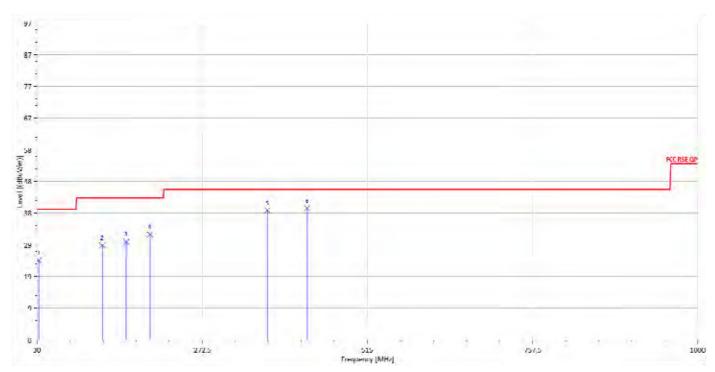


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Operation Mode: 2.4G Test Date: 2016/6/18

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

Operation Band: Tx CH Mid Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: **Horizontal**



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
32.91	S	Peak	33.14	-8.75	24.40	40	-15.60
126.03	S	Peak	44.63	-15.65	28.98	43.5	-14.52
160.95	S	Peak	47.71	-17.63	30.08	43.5	-13.42
195.87	S	Peak	50.03	-17.80	32.22	43.5	-11.28
368.53	S	Peak	50.52	-10.85	39.67	46	-6.33
426.73	S	Peak	49.50	-9.14	40.36	46	-5.64

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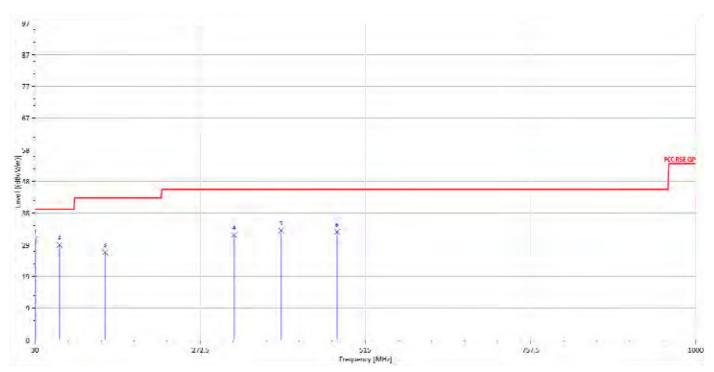


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Operation Mode: Test Date: 2.4G 2016/6/18

Fundamental Frequency: 2478 MHz Temp. / Humi.: 22.7deg_C/57RH

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
30.97	S	Peak	38.44	-7.70	30.73	40	-9.27
65.89	S	Peak	51.42	-22.29	29.14	40	-10.86
132.82	S	Peak	42.61	-15.76	26.84	43.5	-16.66
322.94	S	Peak	44.02	-11.99	32.02	46	-13.98
391.81	S	Peak	43.45	-10.01	33.44	46	-12.56
473.29	S	Peak	41.00	-7.99	33.01	46	-12.99

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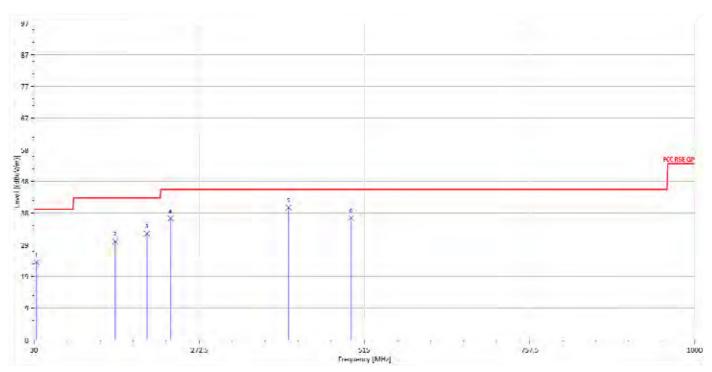


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Operation Mode: 2.4G Test Date: 2016/6/18

Fundamental Frequency: 22.7deg_C/57RH 2478 MHz Temp. / Humi.:

Operation Band: Tx CH High Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
33.88	S	Peak	33.08	-9.27	23.81	40	-16.19
149.31	S	Peak	46.91	-16.73	30.19	43.5	-13.31
195.87	S	Peak	50.30	-17.80	32.50	43.5	-11.00
230.79	S	Peak	53.33	-16.17	37.16	46	-8.84
403.45	S	Peak	50.22	-9.65	40.57	46	-5.43
495.60	S	Peak	45.30	-7.97	37.33	46	-8.67

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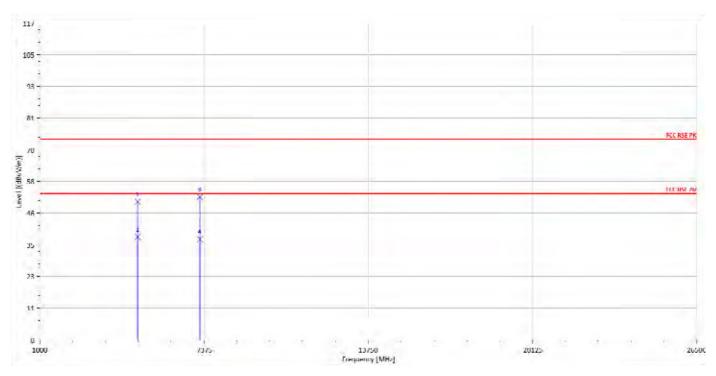


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Operation Mode: Test Date: 2.4G 2016/6/18

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

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4806.00	Н	Peak	43.48	7.67	51.14	74	-22.86
4806.00	Н	Average	30.36	7.67	38.03	54	-15.97
7209.00	Н	Peak	38.02	14.85	52.87	74	-21.13
7209.00	Н	Average	22.36	14.85	37.21	54	-16.79

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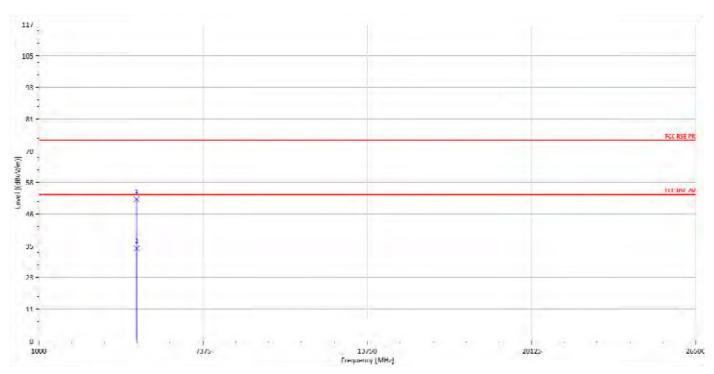


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Operation Mode: Test Date: 2.4G 2016/6/18

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

Operation Band: Tx CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: **Horizontal**



Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4806.00	Н	Peak	44.75	7.67	52.41	74	-21.59
4806.00	Н	Average	26.53	7.67	34.20	54	-19.80

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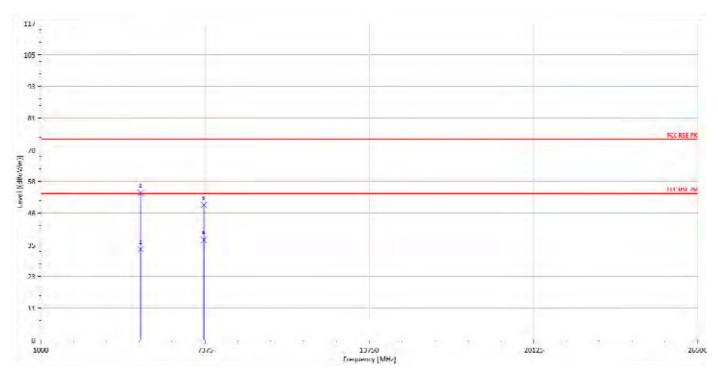


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Operation Mode: Test Date: 2.4G 2016/6/18

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

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.00	Н	Peak	46.68	7.62	54.30	74	-19.70
4884.00	Н	Average	25.87	7.62	33.49	54	-20.51
7326.00	Н	Peak	35.07	14.80	49.87	74	-24.13
7326.00	Н	Average	22.08	14.80	36.88	54	-17.12

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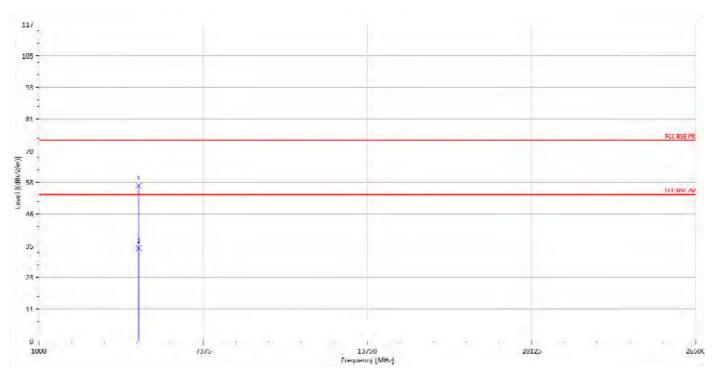


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Operation Mode: Test Date: 2.4G 2016/6/18

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

Operation Band: Tx CH Mid Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: **Horizontal**



Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4884.00	Н	Peak	49.66	7.62	57.28	74	-16.72
4884.00	Н	Average	26.67	7.62	34.29	54	-19.71

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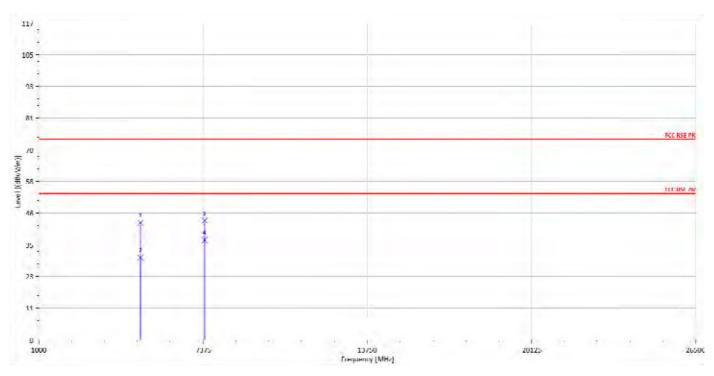


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Operation Mode: Test Date: 2.4G 2016/6/21

Fundamental Frequency: 2478 MHz Temp. / Humi.: 22.7deg_C/57RH

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4956.00	Н	Peak	35.52	7.72	43.24	74	-30.76
4956.00	Н	Average	22.70	7.72	30.42	54	-23.58
7434.00	Н	Peak	28.43	15.65	44.08	74	-29.92
7434.00	Н	Average	21.22	15.65	36.87	54	-17.13

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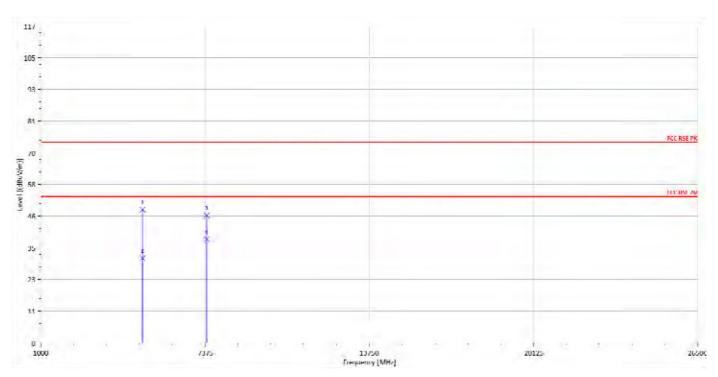


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Operation Mode: Test Date: 2.4G 2016/6/21

Fundamental Frequency: 2478 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4956.00	Н	Peak	41.53	7.72	49.25	74	-24.75
4956.00	Н	Average	23.56	7.72	31.28	54	-22.72
7434.00	Н	Peak	31.46	15.65	47.11	74	-26.89
7434.00	Н	Average	22.60	15.65	38.25	54	-15.75

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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	IFR MODEL SERIAL		LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017		
Power Meter	Anritsu	ML2496A	1326001	06/22/2016	06/23/2017		
Power Sensor	Anritsu	MA2411B	1315048	06/22/2016	06/23/2017		
Power Sensor	Anritsu	MA2411B	1315049	06/22/2016	06/23/2017		
Coaxial Cable 30cm	WOKEN	00100A1F1A19 5C	RF01	12/12/2015	12/11/2016		
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016		
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/12/2015	12/11/2016		
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016		
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017		

8.4 Measurement Results:

Frequency (MHz)	20dB Bandwidth (kHz)		
2403	4490		
2442	4479		
2478	4484		

Refer to attached data chart.

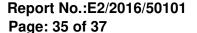
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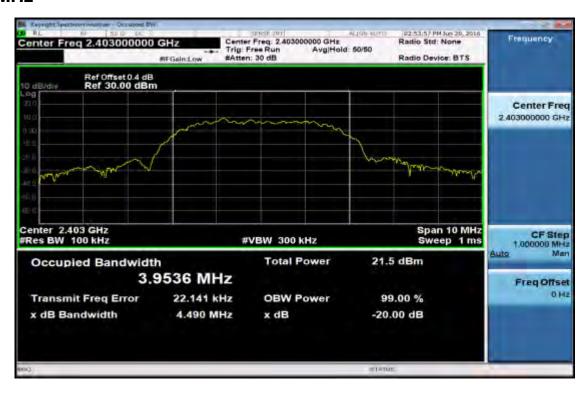
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2403MHz



2442MHz

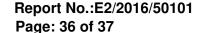


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2478MHz



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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:

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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