

FCC Test Report

Product Name	Digital Camera
Model No.	N1530
FCC ID.	CGJ9152EB

Applicant	NIKON CORPORATION
Address	Shinagawa Intercity Tower C, 2-15-3, Konan,
	Minato-ku, Tokyo 108-6290, Japan

Date of Receipt	Dec. 30, 2015
Issued Date	Feb. 25, 2016
Report No.	1610044R-RFUSP01V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date: Feb. 25, 2016 Report No.: 1610044R-RFUSP01V00



Product Name	Digital Camera	
Applicant	NIKON CORPORATION	
Address	Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290,	
	Japan	
Manufacturer	Altek (Kunshan) Co. Ltd.	
Model No.	N1530	
FCC ID.	CGJ9152EB	
EUT Rated Voltage	AC 100-240V, 50/60Hz	
EUT Test Voltage	AC 120V/60Hz	
Trade Name	Nikon	
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014	
	ANSI C63.4: 2014, ANSI C63.10: 2013	
Test Result	Complied	

Jinn Chen

(Senior Adm. Specialist / Jinn Chen)

Tested By :

Documented By :

Lin

(Assistant Engineer / Bill Lin)

Approved By :

(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Digital Camera	
Trade Name	Nikon	
Model No.	N1530	
FCC ID.	CGJ9152EB	
Frequency Range	2402 – 2480MHz	
Channel Number	79	
Type of Modulation	FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps)	
Antenna Type	PCB Antenna	
Channel Control	Auto	
Antenna Gain	Refer to the table "Antenna List"	
USB Cable	Shielded, 0.9m, with one ferrite core bonded.	
Power Adapter	MFR: NiKon., M/N: EH-73P	
	Input: 100-240V~50/60Hz, 0.14A-0.08A, 12VA-18VA	
	Output: 5V,1A	

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Murata Manufacturing Co., Ltd.	N/A	PCB Antenna	-5.5dBi for 2.4 GHz

Note:

1. The antenna of EUT conforms to FCC 15.203.

2. Only the higher gain antenna was tested and recorded in this report.

Center Frequency of Each Channel:

5						
Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
2402 MHz	Channel 20:	2422 MHz	Channel 40:	2442 MHz	Channel 60:	2462 MHz
2403 MHz	Channel 21:	2423 MHz	Channel 41:	2443 MHz	Channel 61:	2463 MHz
2404 MHz	Channel 22:	2424 MHz	Channel 42:	2444 MHz	Channel 62:	2464 MHz
2405 MHz	Channel 23:	2425 MHz	Channel 43:	2445 MHz	Channel 63:	2465 MHz
2406 MHz	Channel 24:	2426 MHz	Channel 44:	2446 MHz	Channel 64:	2466 MHz
2407 MHz	Channel 25:	2427 MHz	Channel 45:	2447 MHz	Channel 65:	2467 MHz
2408 MHz	Channel 26:	2428 MHz	Channel 46:	2448 MHz	Channel 66:	2468 MHz
2409 MHz	Channel 27:	2429 MHz	Channel 47:	2449 MHz	Channel 67:	2469 MHz
2410 MHz	Channel 28:	2430 MHz	Channel 48:	2450 MHz	Channel 68:	2470 MHz
2411 MHz	Channel 29:	2431 MHz	Channel 49:	2451 MHz	Channel 69:	2471 MHz
2412 MHz	Channel 30:	2432 MHz	Channel 50:	2452 MHz	Channel 70:	2472 MHz
2413 MHz	Channel 31:	2433 MHz	Channel 51:	2453 MHz	Channel 71:	2473 MHz
2414 MHz	Channel 32:	2434 MHz	Channel 52:	2454 MHz	Channel 72:	2474 MHz
2415 MHz	Channel 33:	2435 MHz	Channel 53:	2455 MHz	Channel 73:	2475 MHz
2416 MHz	Channel 34:	2436 MHz	Channel 54:	2456 MHz	Channel 74:	2476 MHz
2417 MHz	Channel 35:	2437 MHz	Channel 55:	2457 MHz	Channel 75:	2477 MHz
2418 MHz	Channel 36:	2438 MHz	Channel 56:	2458 MHz	Channel 76:	2478 MHz
2419 MHz	Channel 37:	2439 MHz	Channel 57:	2459 MHz	Channel 77:	2479 MHz
2420 MHz	Channel 38:	2440 MHz	Channel 58:	2460 MHz	Channel 78:	2480 MHz
2421 MHz	Channel 39:	2441 MHz	Channel 59:	2461 MHz		
	2402 MHz 2403 MHz 2404 MHz 2405 MHz 2406 MHz 2406 MHz 2407 MHz 2408 MHz 2409 MHz 2410 MHz 2410 MHz 2411 MHz 2412 MHz 2413 MHz 2415 MHz 2415 MHz 2416 MHz 2417 MHz 2418 MHz 2419 MHz 2420 MHz	2402 MHz Channel 20: 2403 MHz Channel 21: 2404 MHz Channel 22: 2405 MHz Channel 23: 2406 MHz Channel 23: 2406 MHz Channel 24: 2407 MHz Channel 25: 2408 MHz Channel 26: 2409 MHz Channel 27: 2410 MHz Channel 28: 2411 MHz Channel 29: 2412 MHz Channel 30: 2413 MHz Channel 31: 2414 MHz Channel 32: 2415 MHz Channel 33: 2416 MHz Channel 35: 2418 MHz Channel 36: 2419 MHz Channel 37: 2420 MHz Channel 37:	2402 MHzChannel 20:2422 MHz2403 MHzChannel 21:2423 MHz2404 MHzChannel 22:2424 MHz2405 MHzChannel 23:2425 MHz2406 MHzChannel 24:2426 MHz2407 MHzChannel 25:2427 MHz2408 MHzChannel 26:2428 MHz2409 MHzChannel 27:2429 MHz2410 MHzChannel 28:2430 MHz2411 MHzChannel 29:2431 MHz2413 MHzChannel 30:2432 MHz2414 MHzChannel 31:2433 MHz2415 MHzChannel 33:2435 MHz2416 MHzChannel 34:2436 MHz2417 MHzChannel 35:2437 MHz2418 MHzChannel 36:2438 MHz2419 MHzChannel 37:2439 MHz2420 MHzChannel 37:2439 MHz2420 MHzChannel 37:2430 MHz2420 MHzChannel 37:2430 MHz	2402 MHzChannel 20:2422 MHzChannel 40:2403 MHzChannel 21:2423 MHzChannel 41:2404 MHzChannel 22:2424 MHzChannel 42:2405 MHzChannel 23:2425 MHzChannel 43:2406 MHzChannel 24:2426 MHzChannel 44:2407 MHzChannel 25:2427 MHzChannel 45:2408 MHzChannel 26:2428 MHzChannel 46:2409 MHzChannel 27:2429 MHzChannel 47:2410 MHzChannel 28:2430 MHzChannel 48:2411 MHzChannel 29:2431 MHzChannel 49:2412 MHzChannel 30:2432 MHzChannel 50:2413 MHzChannel 31:2433 MHzChannel 51:2414 MHzChannel 32:2435 MHzChannel 51:2415 MHzChannel 33:2435 MHzChannel 53:2416 MHzChannel 36:2438 MHzChannel 55:2418 MHzChannel 36:2438 MHzChannel 55:2419 MHzChannel 36:2439 MHzChannel 56:2419 MHzChannel 37:2439 MHzChannel 57:2420 MHzChannel 38:2440 MHzChannel 57:	2402 MHzChannel 20:2422 MHzChannel 40:2442 MHz2403 MHzChannel 21:2423 MHzChannel 41:2443 MHz2404 MHzChannel 22:2424 MHzChannel 42:2444 MHz2405 MHzChannel 23:2425 MHzChannel 43:2445 MHz2406 MHzChannel 24:2426 MHzChannel 43:2445 MHz2407 MHzChannel 25:2427 MHzChannel 45:2447 MHz2408 MHzChannel 26:2428 MHzChannel 46:2448 MHz2409 MHzChannel 26:2429 MHzChannel 46:2449 MHz2410 MHzChannel 28:2430 MHzChannel 48:2450 MHz2411 MHzChannel 29:2431 MHzChannel 49:2451 MHz2413 MHzChannel 30:2432 MHzChannel 50:2452 MHz2413 MHzChannel 31:2433 MHzChannel 51:2453 MHz2414 MHzChannel 31:2435 MHzChannel 51:2455 MHz2415 MHzChannel 33:2435 MHzChannel 53:2455 MHz2416 MHzChannel 34:2436 MHzChannel 53:2455 MHz2416 MHzChannel 34:2436 MHzChannel 54:2456 MHz2417 MHzChannel 35:2437 MHzChannel 55:2457 MHz2418 MHzChannel 36:2438 MHzChannel 55:2457 MHz2419 MHzChannel 36:2438 MHzChannel 56:2458 MHz2419 MHzChannel 37:2439 MHzChannel 57:2459 MHz2420 MHzChannel 38: </td <td>2402 MHzChannel 20:2422 MHzChannel 40:2442 MHzChannel 60:2403 MHzChannel 21:2423 MHzChannel 41:2443 MHzChannel 61:2404 MHzChannel 22:2424 MHzChannel 41:2443 MHzChannel 61:2404 MHzChannel 22:2424 MHzChannel 42:2444 MHzChannel 62:2405 MHzChannel 23:2425 MHzChannel 43:2445 MHzChannel 63:2406 MHzChannel 24:2426 MHzChannel 44:2446 MHzChannel 64:2407 MHzChannel 25:2427 MHzChannel 45:2447 MHzChannel 65:2408 MHzChannel 26:2428 MHzChannel 46:2448 MHzChannel 66:2409 MHzChannel 27:2429 MHzChannel 46:2448 MHzChannel 66:2409 MHzChannel 28:2430 MHzChannel 48:2450 MHzChannel 67:2410 MHzChannel 29:2431 MHzChannel 48:2450 MHzChannel 68:2411 MHzChannel 30:2432 MHzChannel 49:2451 MHzChannel 69:2413 MHzChannel 31:2433 MHzChannel 50:2452 MHzChannel 70:2413 MHzChannel 31:2433 MHzChannel 51:2453 MHzChannel 71:2414 MHzChannel 33:2435 MHzChannel 53:2455 MHzChannel 72:2415 MHzChannel 33:2435 MHzChannel 53:2456 MHzChannel 73:2416 MHzChannel 34:2436 MHzChannel 55:2457 MHzChannel 74:</td>	2402 MHzChannel 20:2422 MHzChannel 40:2442 MHzChannel 60:2403 MHzChannel 21:2423 MHzChannel 41:2443 MHzChannel 61:2404 MHzChannel 22:2424 MHzChannel 41:2443 MHzChannel 61:2404 MHzChannel 22:2424 MHzChannel 42:2444 MHzChannel 62:2405 MHzChannel 23:2425 MHzChannel 43:2445 MHzChannel 63:2406 MHzChannel 24:2426 MHzChannel 44:2446 MHzChannel 64:2407 MHzChannel 25:2427 MHzChannel 45:2447 MHzChannel 65:2408 MHzChannel 26:2428 MHzChannel 46:2448 MHzChannel 66:2409 MHzChannel 27:2429 MHzChannel 46:2448 MHzChannel 66:2409 MHzChannel 28:2430 MHzChannel 48:2450 MHzChannel 67:2410 MHzChannel 29:2431 MHzChannel 48:2450 MHzChannel 68:2411 MHzChannel 30:2432 MHzChannel 49:2451 MHzChannel 69:2413 MHzChannel 31:2433 MHzChannel 50:2452 MHzChannel 70:2413 MHzChannel 31:2433 MHzChannel 51:2453 MHzChannel 71:2414 MHzChannel 33:2435 MHzChannel 53:2455 MHzChannel 72:2415 MHzChannel 33:2435 MHzChannel 53:2456 MHzChannel 73:2416 MHzChannel 34:2436 MHzChannel 55:2457 MHzChannel 74:

- 1. The EUT is a Digital Camera with a built-in WLAN
 Bluetooth transceiver, this report for Bluetooth.
- 2. These tests were conducted on a sample for the purpose of demonstrating compliance of Bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
- 3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 4. Bluetooth operation was evaluated at both 1Mb/s and 3Mb/s data rates. 2Mb/s data rate was found, through pre-testing, to produce emissions similar to those for 3Mb/s.
- 5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit - 1Mbps (GFSK)
	Mode 2: Transmit - 3Mbps (8DPSK)



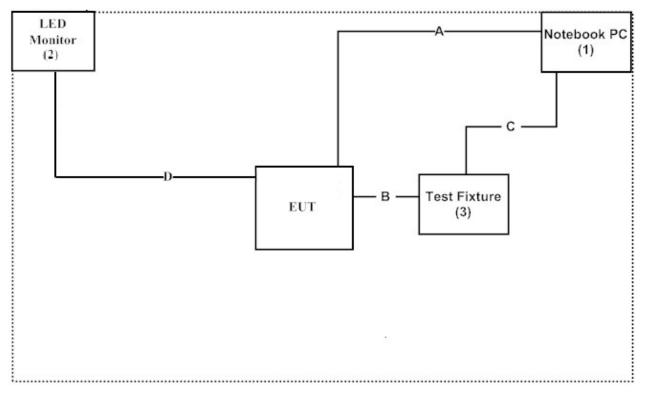
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Produ	ıct	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude E5440	FS9TK32	Non-Shielded, 0.8m
2	LED Monitor	DELL	UP2414Q	CN-0W09C2-74445-43D-007L	Non-Shielded, 1.8m
3	Test Fixture	Nikon	N/A	N/A	N/A

Signa	l Cable Type	Signal cable Description
А	USB Cable	Shielded, 0.9m, with one ferrite core bonded.
В	Signal Cable	Non-Shielded, 0.3m
С	RS-232 Cable	Shielded, 1.1m
D	HDMI Cable	Shielded, 1.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- 1. Setup the EUT as shown in Section 1.4.
- 2. Execute software "Broadcom Blue tool test v1.9.3.7." on the EUT.
- 3. Configure the test mode, the test channel, and the data rate.
- 4. Press "OK" to start the continuous Transmit.
- 5. Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	30-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded

from QuieTek Corporation's Web Site: <u>http://www.quietek.com/chinese/about/certificates.aspx?bval=5</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: <u>http://www.quietek.com/</u>

Site Description:	File on
	Federal Communications Commission
	FCC Engineering Laboratory
	7435 Oakland Mills Road
	Columbia, MD 21046
	Registration Number: 92195
Site Name:	Quietek Corporation
Site Address:	No.5-22, Ruishukeng,
	Linkou Dist. New Taipei City 24451,
	Taiwan, R.O.C.
	TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
	E-Mail : <u>service@quietek.com</u>

FCC Accreditation Number: TW1014

2. Conducted Emission

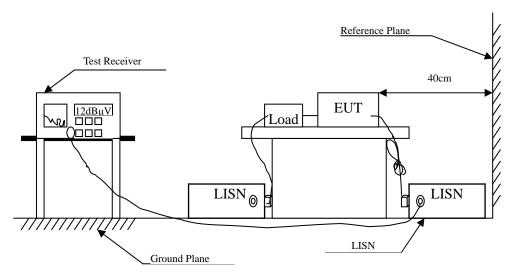
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
Х	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
Х	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
Х	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar., 2015	EUT
Х	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBµV) Limit						
Frequency	Limits					
MHz	QP	AV				
0.15 - 0.50	66-56	56-46				
0.50-5.0	56	46				
5.0 - 30	60	50				

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product	:	Digital Camera
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct	Reading Measurement		Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	dBµV	dB	dBµV
LINE 1					
Quasi-Peak					
0.158	9.668	37.400	47.068	-18.703	65.771
0.216	9.661	29.150	38.811	-25.303	64.114
0.857	9.696	13.690	23.386	-32.614	56.000
3.103	9.810	23.020	32.830	-23.170	56.000
12.252	9.981	12.760	22.741	-37.259	60.000
24.002	10.058	26.120	36.178	-23.822	60.000
Average					
0.158	9.668	23.460	33.128	-22.643	55.771
0.216	9.661	16.670	26.331	-27.783	54.114
0.857	9.696	4.050	13.746	-32.254	46.000
3.103	9.810	18.630	28.440	-17.560	46.000
12.252	9.981	7.840	17.821	-32.179	50.000
24.002	10.058	23.570	33.628	-16.372	50.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product	: Digital Camera					
Test Item	: Conducted Emission Test					
Power Line	: Line 2					
Test Mode	: Mode 2	: Transmit - 3Mbp	s (8DPSK) (2441MH	z)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBµV	dBµV	dB	dBµV	
LINE 2						
Quasi-Peak						
0.166	9.667	37.920	47.586	-17.957	65.543	
0.267	9.664	22.850	32.514	-30.143	62.657	
0.783	9.692	16.270	25.962	-30.038	56.000	
2.904	9.796	23.200	32.996	-23.004	56.000	
18.951	10.182	17.380	27.562	-32.438	60.000	
24.002	10.238	25.720	35.958	-24.042	60.000	
Average						
0.166	9.667	27.630	37.296	-18.247	55.543	
0.267	9.664	11.860	21.524	-31.133	52.657	
0.783	9.692	4.620	14.312	-31.688	46.000	
2.904	9.796	13.070	22.866	-23.134	46.000	
18.951	10.182	13.180	23.362	-26.638	50.000	
24.002	10.238	23.330	33.568	-16.432	50.000	

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

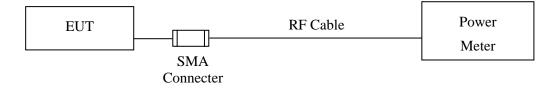
3.1. Test Equipment

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

3.2. Test Setup



3.3. Limit

The maximum peak power shall be less 1Watt.

3.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product	:	Digital Camera
Test Item	:	Peak Power Output
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK)

Channel No.	Frequency	Measurement	Required Limit	Result
	(MHz)	(dBm)		
Channel 00	2402.00	3.46	1 Watt= 30 dBm	Pass
Channel 39	2441.00	3.57	1 Watt= 30 dBm	Pass
Channel 78	2480.00	3.70	1 Watt= 30 dBm	Pass



Product	:	Digital Camera
Test Item	:	Peak Power Output
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK)

Channel No.	Frequency	Measurement	Required Limit	Result
	(MHz)	(dBm)		
Channel 00	2402.00	2.12	1 Watt= 30 dBm	Pass
Channel 39	2441.00	1.95	1 Watt= 30 dBm	Pass
Channel 78	2480.00	1.93	1 Watt= 30 dBm	Pass



4. **Radiated Emission**

4.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	Х	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	Х	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun., 2015
	Х	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun., 2015
	Х	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun., 2015
	Х	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun., 2015

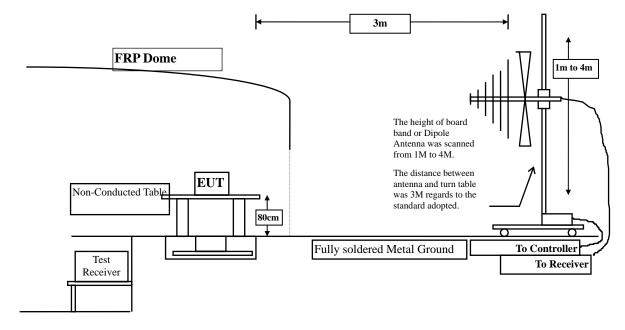
Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
CB # 8	Х	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2015
	Х	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan., 2016
	Х	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	X Pre-Amplifier		EMCI	EMC012630SE/980210	Jan., 2016
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	Х	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

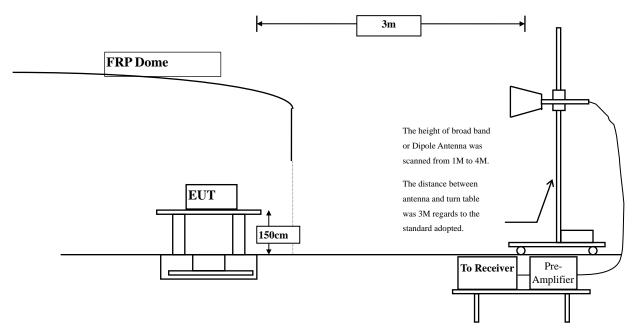
4.2. Test Setup

sBelow 1GHz





Above 1GHz



4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits						
Frequency MHz	uV/m @3m	dBµV/m@3m				
30-88	100	40				
88-216	150	43.5				
216-960	200	46				
Above 960	500	54				

Remarks: 1. RF Voltage $(dB\mu V) = 20 \log RF$ Voltage (uV)

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.249 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

Product Test Item Test Site Test Mode	 Digital Camera Harmonic Radiated Emission No.3 OATS Mode 1: Transmit - 1Mbps (GFSK)(2402MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	$dB\mu V/m$	dB	dBµV/m
Horizontal					
Peak Detector:					
4804.000	3.327	43.830	47.157	-26.843	74.000
7206.000	10.136	42.910	53.046	-20.954	74.000
9608.000	13.706	39.740	53.446	-20.554	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4804.000	6.638	44.420	51.057	-22.943	74.000
7206.000	11.005	42.280	53.285	-20.715	74.000
9608.000	14.103	39.370	53.473	-20.527	74.000
Average					
Detector:					

4.6. Test Result of Radiated Emission

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Test Item Test Site Test Mode	 Digital Camera Harmonic Radiated Emission No.3 OATS Mode 1: Transmit - 1Mbps (GFSK)(2441MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	$dB\mu V/m$	dB	dBµV/m
Horizontal					
Peak Detector:					
4882.000	3.001	44.250	47.251	-26.749	74.000
7323.000	11.846	41.020	52.867	-21.133	74.000
9764.000	12.563	39.980	52.543	-21.457	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4882.000	5.713	43.820	49.534	-24.466	74.000
7323.000	12.727	41.070	53.798	-20.202	74.000
9764.000	13.028	40.590	53.618	-20.382	74.000
Average					

Detector:

--

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Digital Camera
Test Item	:	Harmonic Radiated Emission
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	dBµV/m	dB	dBµV/m
Horizontal					
Peak Detector:					
4960.000	2.760	44.280	47.040	-26.960	74.000
7440.000	12.567	39.650	52.216	-21.784	74.000
9920.000	13.456	39.760	53.216	-20.784	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4960.000	5.557	42.310	47.867	-26.133	74.000
7440.000	13.426	39.760	53.185	-20.815	74.000
9920.000	13.958	39.240	53.198	-20.802	74.000
Average					
Detector:					

Detector

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Test Item Test Site Test Mode	 Digital Camera Harmonic Radiated Emission No.3 OATS Mode 2: Transmit - 3Mbps (8DPSK)(2402MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	dBµV/m	dB	dBµV/m
Horizontal					
Peak Detector:					
4804.000	3.327	44.210	47.537	-26.463	74.000
7206.000	10.136	41.010	51.146	-22.854	74.000
9608.000	13.706	39.290	52.996	-21.004	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4804.000	6.638	40.910	47.547	-26.453	74.000
7206.000	11.005	42.280	53.285	-20.715	74.000
9608.000	14.103	38.970	53.073	-20.927	74.000
Average					
Detector:					

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Test Item Test Site Test Mode	 Digital Camera Harmonic Radiated Emission No.3 OATS Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz) 					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBµV	dBµV/m	dB	dBµV/m	
Horizontal						
Peak Detector:						
4882.000	3.001	43.210	46.211	-27.789	74.000	
7323.000	11.846	40.410	52.257	-21.743	74.000	
9764.000	12.563	40.290	52.853	-21.147	74.000	
Average						
Detector:						
Vertical						
Peak Detector:						
4882.000	5.713	41.480	47.194	-26.806	74.000	
7323.000	12.727	40.240	52.968	-21.032	74.000	
9764.000	13.028	40.060	53.088	-20.912	74.000	
Average						
Detector:						

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Test Item Test Site Test Mode	 Digital Camera Harmonic Radiated Emission No.3 OATS Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level	C	
MHz	dB	dBµV	dBµV/m	dB	dBµV/m
Horizontal					
Peak Detector:					
4960.000	2.760	44.880	47.640	-26.360	74.000
7440.000	12.567	40.840	53.406	-20.594	74.000
9920.000	13.456	40.120	53.576	-20.424	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4960.000	5.557	40.630	46.187	-27.813	74.000
7440.000	13.426	39.610	53.035	-20.965	74.000
9920.000	13.958	39.450	53.408	-20.592	74.000
Average					
Detector:					

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Digital Camera
Test Item	:	General Radiated Emission
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	dBµV/m	dB	dBµV/m
Horizontal					
166.362	-10.996	44.594	33.598	-9.902	43.500
332.246	-4.247	30.625	26.378	-19.622	46.000
474.232	0.032	26.930	26.962	-19.038	46.000
614.812	3.419	28.038	31.457	-14.543	46.000
779.290	4.178	23.158	27.337	-18.663	46.000
953.609	6.368	28.354	34.722	-11.278	46.000
Vertical					
146.681	-6.247	38.295	32.048	-11.452	43.500
298.507	-7.009	30.447	23.437	-22.563	46.000
460.174	-3.359	23.733	20.375	-25.625	46.000
656.986	-3.679	28.202	24.523	-21.477	46.000
817.246	3.263	19.055	22.318	-23.682	46.000
969.072	8.191	25.278	33.469	-20.531	54.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Digital Camera
Test Item	:	General Radiated Emission
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	dBµV/m	dB	dBµV/m
Horizontal					
150.899	-10.178	44.595	34.417	-9.083	43.500
330.841	-4.469	30.246	25.777	-20.223	46.000
485.478	-0.791	23.261	22.470	-23.530	46.000
635.899	2.144	26.229	28.373	-17.627	46.000
776.478	4.181	26.961	31.142	-14.858	46.000
945.174	6.537	27.072	33.609	-12.391	46.000
Vertical					
136.841	-5.190	37.097	31.907	-11.593	43.500
257.739	-7.542	35.179	27.638	-18.362	46.000
406.754	-6.650	33.918	27.268	-18.732	46.000
572.638	-5.555	30.865	25.310	-20.690	46.000
796.159	2.832	27.589	30.422	-15.578	46.000
966.261	8.016	27.814	35.830	-18.170	54.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

5. **RF** Antenna Conducted Test

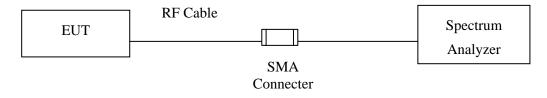
5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments Marked "X" are used to measure the final test results.

5.2. Test Setup



5.3. Limits

According to FCC Section 15.247(d). 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

5.5. Uncertainty

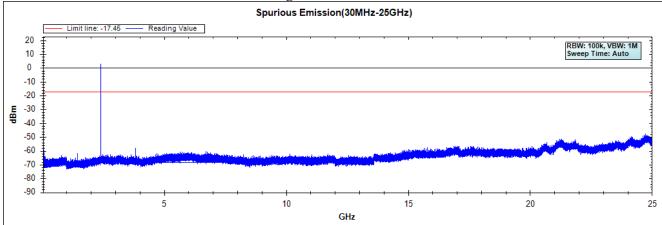
± 150Hz



5.6. Test Result of RF Antenna Conducted Test

Product	:	Digital Camera
Test Item	:	RF Antenna Conducted Test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK)

Figure Channel 00:





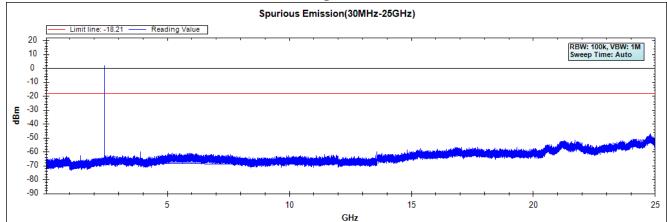
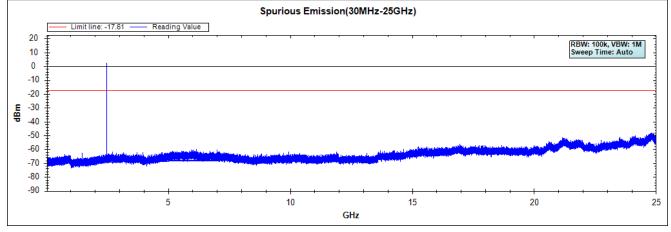


Figure Channel 78:



Note: The above test pattern is synthesized by multiple of the frequency range.



Product	:	Digital Camera
Test Item	:	RF Antenna Conducted Test
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK)

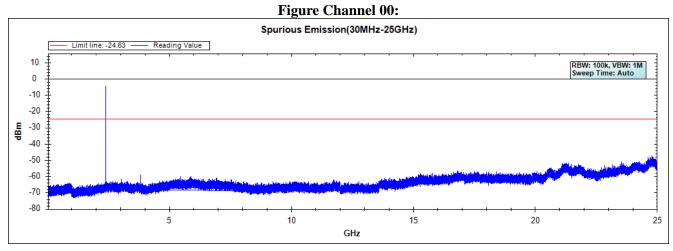


Figure Channel 39:

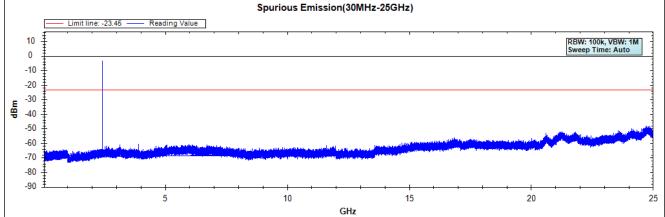
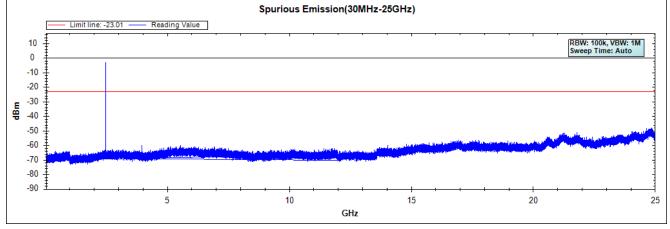


Figure Channel 78:



Note: The above test pattern is synthesized by multiple of the frequency range.

6. Band Edge

6.1. Test Equipment

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
CB # 8	Х	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2015
	Х	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan., 2016
	Х	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	Х	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan., 2016
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	Х	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

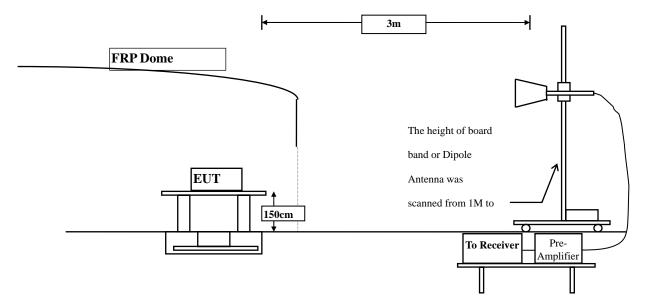
Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:

Above 1GHz



6.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

6.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz



6.6. **Test Result of Band Edge**

Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
00 (Peak)	2365.942	-1.225	39.231	38.006	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	37.579	36.448	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	66.672	65.589			
00 (Peak)	2402.174	-1.072	97.211	96.139			
00 (Average)	2364.493	-1.232	23.986	22.755	74.00	54.00	Pass
00 (Average)	2390.000	-1.131	22.128	20.997	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	41.367	40.284			
00 (Average)	2402.029	-1.073	80.133	79.061			

Figure Channel 00:

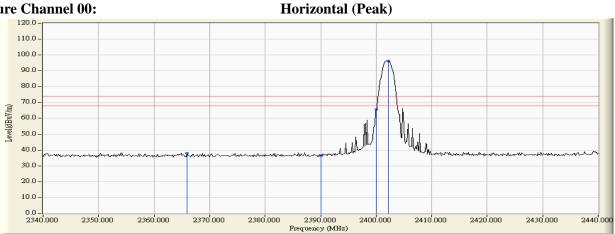
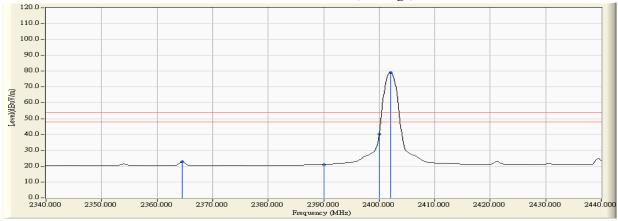


Figure Channel 00:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. 1.
- 2. 3. Average measurements: RBW = 1MHz, VBW = 5 MHz, Sweep: Auto. "*", means this data is the worst emission level
- 4. , means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correction Factor.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Kesuit
00 (Peak)	2384.348	-1.699	39.253	37.554	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	37.313	35.588	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	62.625	60.893			
00 (Peak)	2402.174	-1.729	92.470	90.742			
00 (Average)	2364.638	-1.607	22.421	20.814	74.00	54.00	Pass
00 (Average)	2390.000	-1.725	21.478	19.753	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	37.655	35.923			
00 (Average)	2402.029	-1.729	76.302	74.573			

Figure Channel 00:

VERTICAL (Peak)

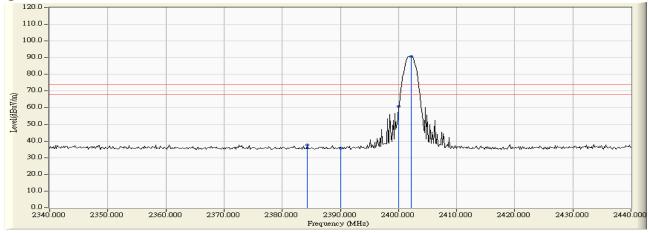
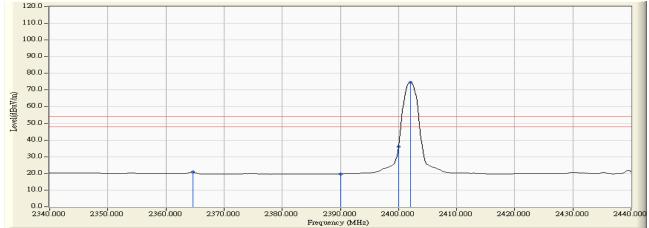


Figure Channel 00:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
78 (Peak)	2480.022	-0.580	98.826	98.246			Pass
78 (Peak)	2483.500	-0.558	46.609	46.051	74.00	54.00	Pass
78 (Peak)	2484.225	-0.554	58.682	58.128	74.00	54.00	Pass
78 (Average)	2480.022	-0.580	82.276	81.696			Pass
78 (Average)	2483.500	-0.558	31.433	30.875	74.00	54.00	Pass

Figure Channel 78:

Horizontal (Peak)

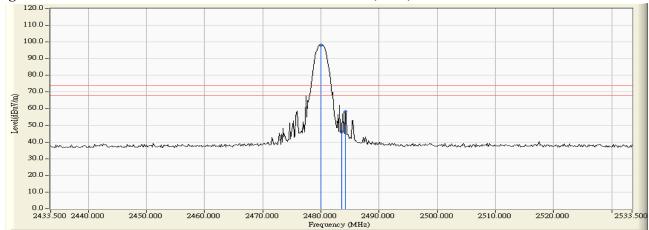
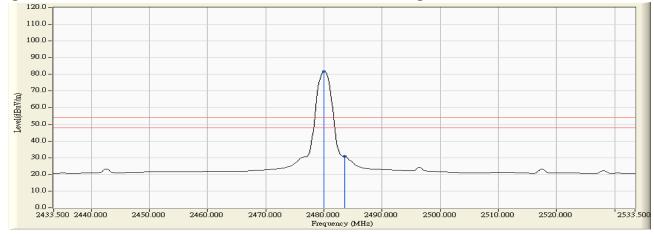


Figure Channel 78:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5.
- Measurement Level = Reading Level + Correction Factor. The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	
78 (Peak)	2480.022	-1.324	95.502	94.178			Pass
78 (Peak)	2483.500	-1.305	43.804	42.499	74.00	54.00	Pass
78 (Peak)	2484.225	-1.301	56.347	55.046	74.00	54.00	Pass
78 (Average)	2480.022	-1.324	80.150	78.826			Pass
78 (Average)	2483.500	-1.305	29.683	28.378	74.00	54.00	Pass

Figure Channel 78:

VERTICAL (Peak)

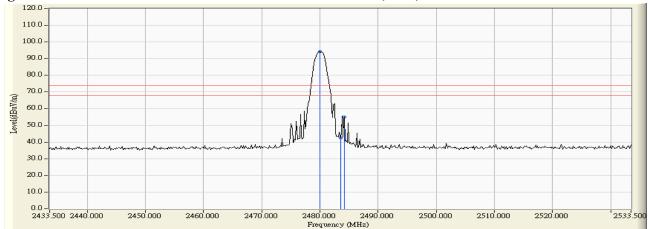
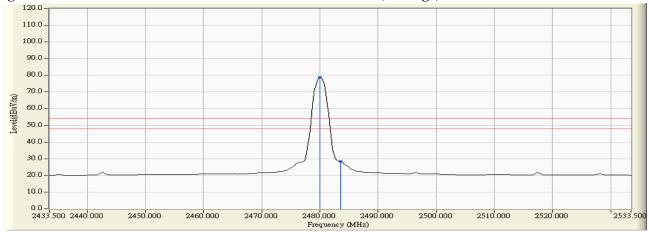


Figure Channel 78:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level.
- 1. 2. 3.
- 4.
- 5.
- Measurement Level = Reading Level + Correction Factor. The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	
00 (Peak)	2383.043	-1.157	39.814	38.656	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	37.827	36.696	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	66.177	65.094			
00 (Peak)	2402.029	-1.073	94.940	93.868			
00 (Average)	2365.072	-1.228	22.012	20.783	74.00	54.00	Pass
00 (Average)	2390.000	-1.131	21.563	20.432	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	44.917	43.834			
00 (Average)	2402.029	-1.073	77.031	75.959			

Figure Channel 00:

Horizontal (Peak)

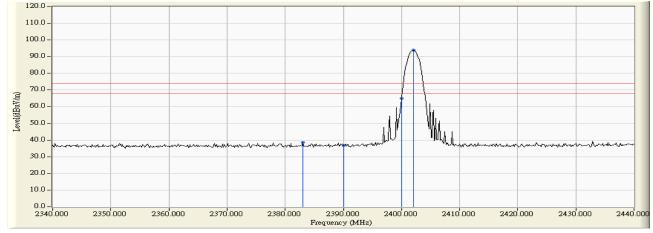
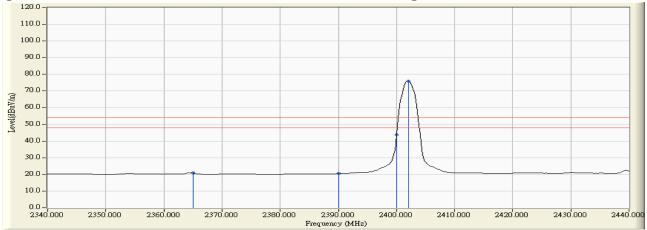


Figure Channel 00:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

Channel No.	Frequency		•	Emission Level		•	Result
Chamiler 100.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	(dBµV/m)	(dBµV/m)	Result
00 (Peak)	2369.710	-1.631	38.928	37.297	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	37.623	35.898	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	61.968	60.236			
00 (Peak)	2402.029	-1.729	90.327	88.598			
00 (Average)	2374.928	-1.655	21.480	19.825	74.00	54.00	Pass
00 (Average)	2390.000	-1.725	21.108	19.383	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	41.461	39.729			
00 (Average)	2402.029	-1.729	73.560	71.831			

Figure Channel 00:

VERTICAL (Peak)

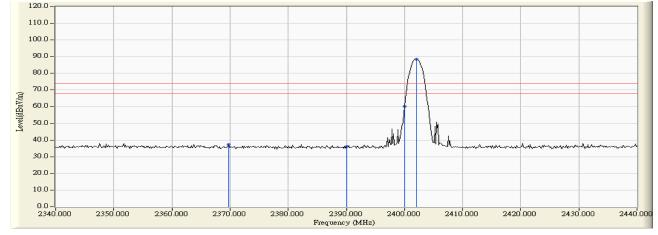
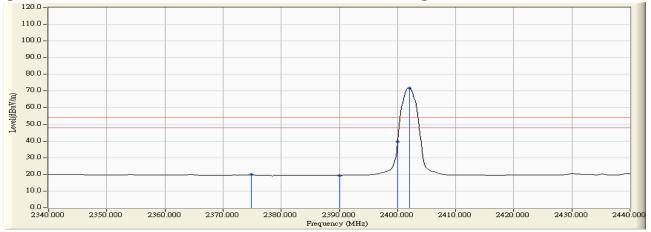


Figure Channel 00:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
78 (Peak)	2480.022	-0.580	96.626	96.046			Pass
78 (Peak)	2483.500	-0.558	49.983	49.425	74.00	54.00	Pass
78 (Peak)	2484.225	-0.554	56.332	55.778	74.00	54.00	Pass
78 (Average)	2480.022	-0.580	78.223	77.643			Pass
78 (Average)	2483.500	-0.558	28.831	28.273	74.00	54.00	Pass

Figure Channel 00:

Horizontal (Peak)

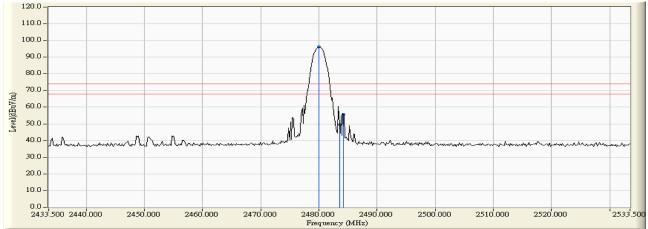
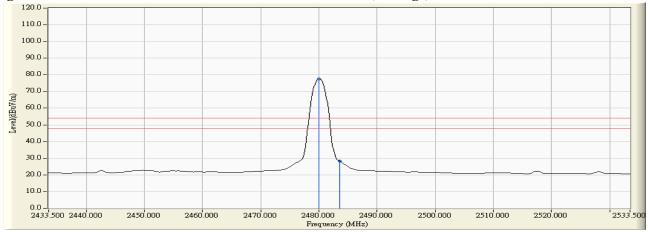


Figure Channel 00:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
78 (Peak)	2480.022	-1.324	93.210	91.886			Pass
78 (Peak)	2483.500	-1.305	41.828	40.523	74.00	54.00	Pass
78 (Peak)	2484.949	-1.296	51.083	49.786	74.00	54.00	Pass
78 (Average)	2480.022	-1.324	74.337	73.013			Pass
78 (Average)	2483.500	-1.305	27.169	25.864	74.00	54.00	Pass

Figure Channel 78:

VERTICAL (Peak)

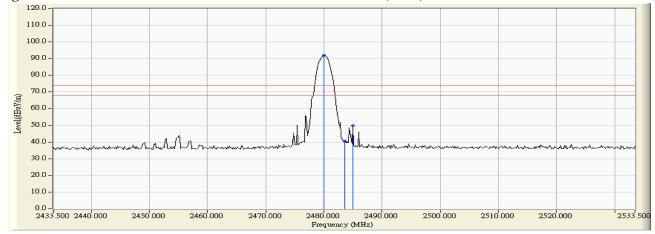
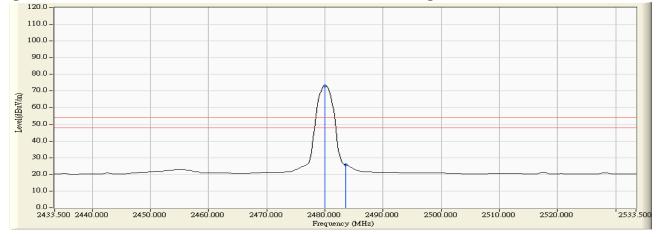


Figure Channel 78:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5.
- Measurement Level = Reading Level + Correction Factor. The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (Hopping Mode)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Kesuit
00 (Peak)	2357.400	-1.259	35.655	34.396	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	33.462	32.331	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	61.679	60.596			
00 (Peak)	2433.200	-0.879	86.498	85.618			
00 (Average)	2368.400	-1.215	23.981	22.765	74.00	54.00	Pass
00 (Average)	2390.000	-1.131	23.401	22.270	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	58.988	57.905			
00 (Average)	2433.000	-0.881	86.275	85.394			

Figure Channel 00:

Horizontal (Peak)

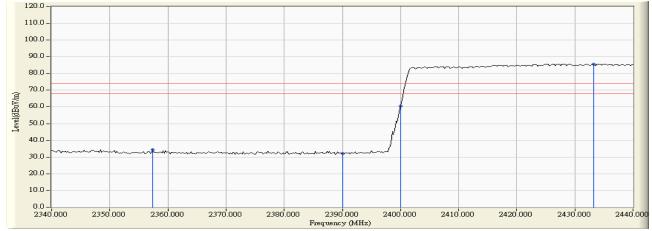


Figure Channel 00:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 1. 2. 3.
- Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (Hopping Mode)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
00 (Peak)	2362.200	-1.596	37.938	36.342	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	33.858	32.133	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	60.178	58.446			
00 (Peak)	2421.000	-1.655	83.634	81.979			
00 (Average)	2367.200	-1.620	23.937	22.318	74.00	54.00	Pass
00 (Average)	2390.000	-1.725	24.007	22.282	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	57.198	55.466			
00 (Average)	2425.200	-1.632	82.685	81.053			

Figure Channel 00:

VERTICAL (Peak)

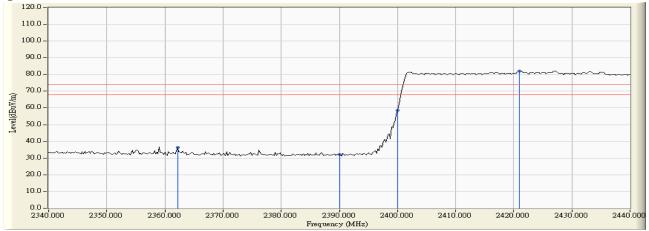
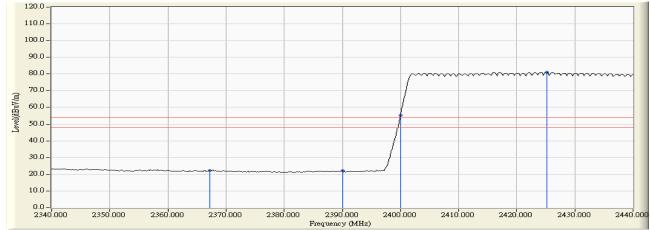


Figure Channel 00:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. Measurement Level = Reading Level + Correction Factor. 1.
- 1. 2. 3. 4.
- 5.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (Hopping Mode)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Peak Limit (dBµV/m)	Arerage Limit (dBµV/m)	Result
78 (Peak)	2470.100	-0.644	83.001	82.358			Pass
78 (Peak)	2483.500	-0.558	48.975	48.417	74.00	54.00	Pass
78 (Average)	2470.100	-0.644	83.634	82.991			Pass
78 (Average)	2483.500	-0.558	43.456	42.898	74.00	54.00	Pass

Figure Channel 78:

Horizontal (Peak)

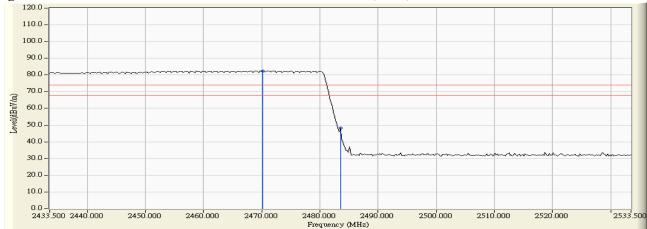
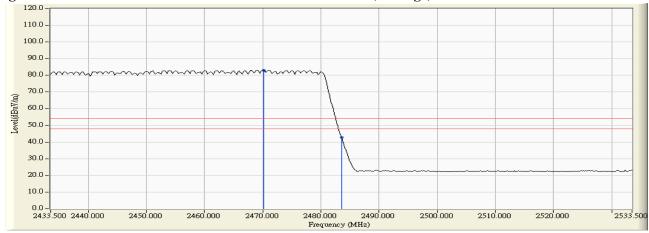


Figure Channel 78:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level 1.
- 2. 3.
- 4. 5. ', means this data is the worst emission level.
- Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK) (Hopping Mode)

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
78 (Peak)	2461.100	-1.428	81.090	79.661			Pass
78 (Peak)	2483.500	-1.305	42.268	40.963	74.00	54.00	Pass
78 (Average)	2464.100	-1.411	80.714	79.302			Pass
78 (Average)	2483.500	-1.305	40.589	39.284	74.00	54.00	Pass

Figure Channel 78:

VERTICAL (Peak)

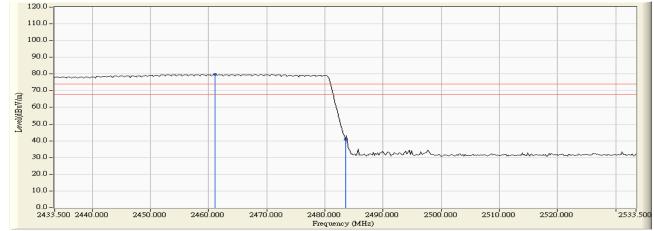
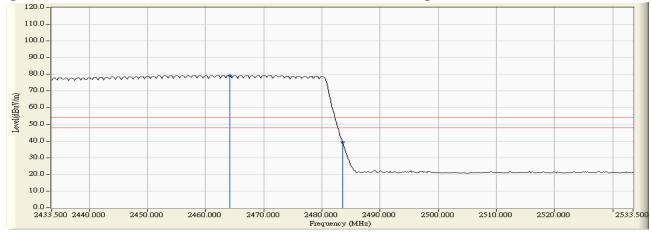


Figure Channel 78:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. 1.
- 2.
- Average measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. "*" means this data is the worst emission level 3.
- ', means this data is the worst emission level. 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- 6. The average measurement was not performed when the peak measured data is under the limit of average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (Hopping Mode)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
00 (Peak)	2377.200	-1.180	31.530	30.349	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	31.263	30.132	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	58.469	57.386			
00 (Peak)	2425.200	-0.931	80.449	79.518			
00 (Average)	2358.600	-1.255	22.024	20.770	74.00	54.00	Pass
00 (Average)	2390.000	-1.131	21.035	19.904	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	53.406	52.323			
00 (Average)	2432.000	-0.888	77.958	77.071			

Figure Channel 00:

Horizontal (Peak)

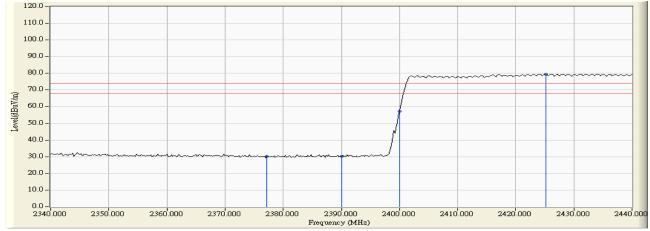
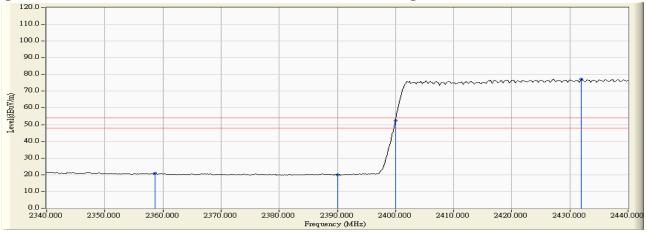


Figure Channel 00:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3. 4.

- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (Hopping Mode)

Channel No.	· ·	Correct Factor	0	Emission Level		0	Result
enumer root	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	(dBµV/m)	1000010
00 (Peak)	2375.400	-1.657	34.085	32.428	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	31.232	29.507	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	57.531	55.799			
00 (Peak)	2430.000	-1.605	79.124	77.519			
00 (Average)	2359.400	-1.583	21.956	20.373	74.00	54.00	Pass
00 (Average)	2390.000	-1.725	20.886	19.161	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	51.660	49.928			
00 (Average)	2424.400	-1.635	75.965	74.329			

Figure Channel 00:

VERTICAL (Peak)

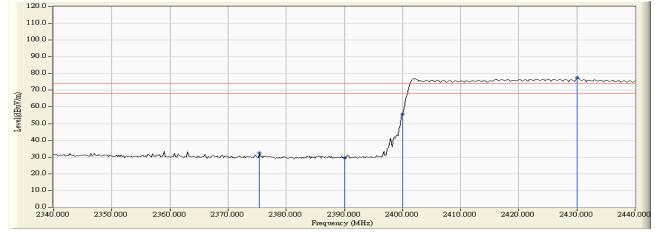
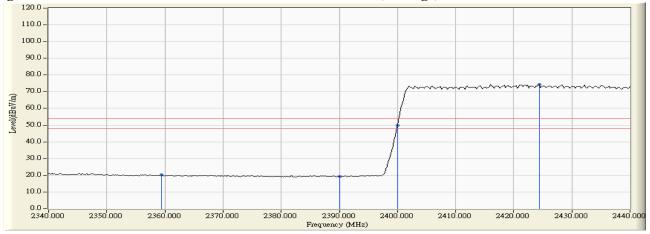


Figure Channel 00:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 1. 2. 3.
- Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (Hopping Mode)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Peak Limit (dBµV/m)	Arerage Limit (dBµV/m)	Result
78 (Peak)	2469.900	-0.645	81.426	80.781			Pass
78 (Peak)	2483.500	-0.558	43.232	42.674	74.00	54.00	Pass
78 (Average)	2471.300	-0.636	79.025	78.389			Pass
78 (Average)	2483.500	-0.558	39.715	39.157	74.00	54.00	Pass

Figure Channel 00:

Horizontal (Peak)

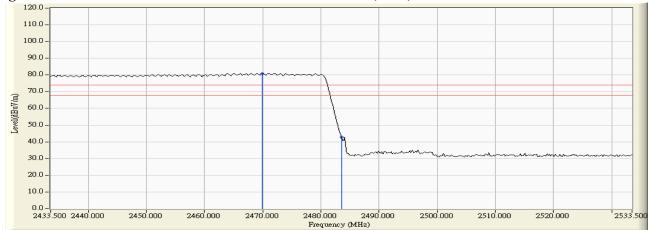
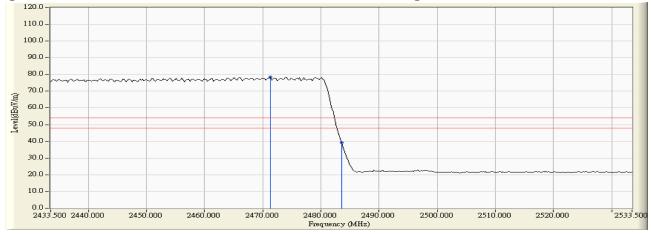


Figure Channel 00:

Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level. 1.
- 2. 3.
- 4.
- 5. Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



Product	:	Digital Camera
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (Hopping Mode)

Channel No.	1 2		U	Emission Level		0	Result
Chamber 100.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	(dBµV/m)	$(dB\mu V/m)$	nesure
78 (Peak)	2463.900	-1.413	78.675	77.262			Pass
78 (Peak)	2483.500	-1.305	40.249	38.944	74.00	54.00	Pass
78 (Average)	2467.100	-1.396	76.315	74.919			Pass
78 (Average)	2483.500	-1.305	36.500	35.195	74.00	54.00	Pass

Figure Channel 78:

VERTICAL (Peak)

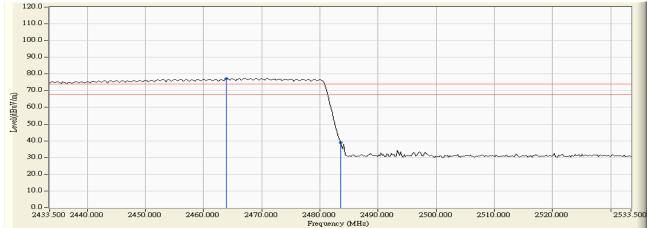
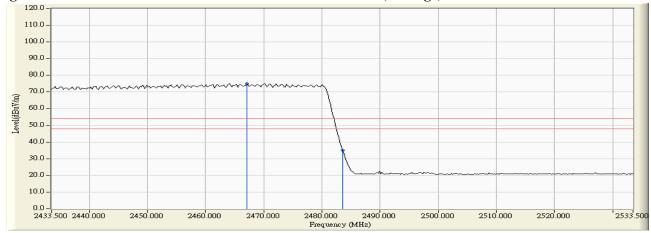


Figure Channel 78:

VERTICAL (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. "*", means this data is the worst emission level 1.
- 2. 3.
- 4. 5. ', means this data is the worst emission level.
- Measurement Level = Reading Level + Correction Factor.
- The average measurement was not performed when the peak measured data is under the limit of 6. average detection.



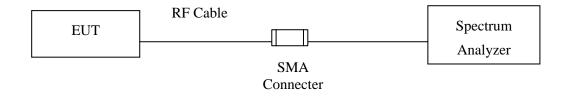
7. Channel Number

7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.2. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

7.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

7.5. Uncertainty

N/A

7.6. Test Result of Channel Number

Digital Camera
Channel Number
No.3 OATS
Mode 1: Transmit - 1Mbps (GFSK)

Frequency Range	Measurement	Required Limit	Result
(MHz)	(Hopping Channel)	(Hopping Channel)	Kesun
2402 ~ 2480	79	>75	Pass

2402-2421MHz

2422-2441MHz

E Knyngitt Samthum Analism - Swept SA				C 4 20		altum Analium - I						A 15 11			
Center Freq 2.411000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	01-05-46 PHF46 21, 2018 TRADE 1 2 3 4 5 6 TIPE NUMBER OF NUMBER	Frequency	Center Fi		500000 GH	łz .	1	Run		Log-Pwr	TRAC	HFH021,2908	Frequency
Ref Offset 0.5 dB 10 dB/div Ref 10.50 dBm		Mkr2	2.421 000 GHz 2.55 dBm	Auto Tune	10 dB/div	Ref Offset	190 0.5 dB	NO: Fast G	#Atten: 20	48		Mkr	2 2.441	00 GHz 53 dBm	Auto Tuni
-99 21 500	NVVV	AV VY	MAN	Center Freq 2.411000000 GHz		ww	WW	<i>ty</i> n	MX	ηÀ	AA	M	NA	TV	Center Fre 2.431500000 GH
95				Start Freq 2.400500000 GHz	-29.5 -29.5										Start Fre 2.421500000 GH
95 95				Stop Freq 2.421500000 GHz	-69 5 -89 5 -79 5				-				-		Stop Fre 2.441500000 GH
OF MODE THE SEL	#VBW 100 kHz	Sweep 2.	Stop 2.42150 GHz 533 ms (1001 pts)	CF Step 2.100000 MHz Auto Man	Start 2.42 #Res BW	100 kHz	x		/ 100 kHz	FUN	TION FUR	Sweep 2	Stop 2.44 .467 ms (1001 pts)	CF Ste 2.000000 Mi Auto Mi
1 N f 2402000 GH N f 2421000 GH 4 5	12 2.39 dBm 12 2.55 dBm			Freq Offset 0 Hz	- N	1	2.422 0 2.441 0	0 GHz 0 GHz	2.97 dB 2.53 dB	m				_	Freq Offse
9 9 10					7 8 9 10 11										
NI)		STATIO			anni.							STATU	1	-	

2442-2461MHz

2462-2480MHz

E. Konopit Graduan Antonio - Sweet Sh	1 1 10000						um-Sweet 54						-		
Center Freq 2.451500000 GHz	ast C Trig: Free Run	Avg Type: Log-Pwr	101.07:14.94(5)(0.21,201) 79465 1.2.3.4.5.6 17/25 1.2.3.4.5.6 17/25 1.2.3.4.5.6	Frequency	Center		71500000	PNO: Fast C	Trig: Free		Avg Type	Log-Pwr	10147-56	ACR 123454	Frequency
Ref Offset 0.5 dB 0 dB/div Ref 10.50 dBm	Low #Atten: 20 dB	2 2.461 00 GHz 2.30 dBm	Auto Tune	Auto Tune Mkr2 2,480 00							Auto Tun				
507 507 96	www.	VAVA	ANA	Center Freq 2.451500000 GHz	0.500 V 19.50	nn	<i>ini</i>	WW	WAA	n <u>r</u>	nyn.	ΩØ	N	2	Center Fre 2.471600000 Gi
6 6				Start Freq 2.441500000 GHz	-27.5 -27.5 -49.5									1	Start Fr 2.461500000 G
5 5 5				Stop Freq 2.461500000 GHz	-89.5 -89.5 -79.5										Stop Fr 2.481500000 0
art 2.44150 GHz les BW 100 kHz	#VBW 100 kHz	Sweep 2	Stop 2.46150 GHz .467 ms (1001 pts)	CF Step 2.000000 MHz Auto Man	Start 2.4 #Res BV	V 100 kH	z	#VBI	W 100 kHz		S ON LEAN	Sweep 2	.467 ms	48150 GHz (1001 pts)	CF St 2.000000 M Auto
N 1 1 2461 00 GF N 1 1 2461 00 GF 3 4 5				Freq Offset D Hz	1 N 3 4 5		2.45 2.48	2 00 GHz 2 00 GHz	2.96 dB 2.53 dB						Freq Offs
6 7 8 9 0					6 7 8 9 10							_			
	1 × 1	STATU	+		4.1.						-	STATES	1	+	



Digital Camera	
Channel Number	
No.3 OATS	
Mode 2: Transmit - 3Mbp	s (8DPSK)
	Channel Number No.3 OATS

Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2421MHz

2422-2441MHz

R Avenuel General Andrew Const G	NT 60.00 - 01.01 07 FITFUR 21, 25 CF		The foreget lands and the set of					
Center Freq 2.411000000 GHz	Avg Type: Log-Pwr TRACE 133456	Frequency	Center Freq 2.431500000 GHz INC Test Trig: Free Run IFG01 test Trig: Free Run IFG01 test Trig: Free Run IFG01 test Trig: Free Run	Frequency				
Ref Offset 0.5 dB	Mkr2 2,421 000 GHz Auto Tune Rer 0/5st 05 dB Mkr2 2,441 00 GHz							
	the second second	Center Freq 2.411000000 GHz		Center Free 2.431500000 GH				
226 226 226		Start Freq 2.400500000 GHz	eq (2)5	Start Free 2,421500000 GH				
005 905 795		Stop Freq 2.421500000 GHz		Stop Free 2.441500000 GH				
Start 2.40050 GHz Res BW 100 kHz #VBW 100 kHz	Stop 2.42150 GHz Sweep 2.533 ms (1001 pts)	CF Step 2.100000 MHz Auto Man	ep Start 2.42150 GHz #RFS BW 100 kHz #VBW 100 kHz Sweep 2.467 ms (1001 pts) Am Toogreed the last a start of the last a star	CF Stej 2.000000 MH uto Ma				
1 N f 2,402,000 GHz -1,50 dBm 2 N f 2,421,000 GHz -3,40 dBm 3 4 4 5		Freq Offset D Hz		Freq Offse D H				
0 7 4 9 10								
27 88	STATUS		4)					

2442-2461MHz

2462-2480MHz

E Associal General Autom - General Ga	and the second sec									
Center Freq 2.451500000 GHz Avg Type Log-Pv	APRILE FILLAR	Center Freg 2.471500000 GHz		quency						
IFGain:Low #Atten: 20 dB	ST P NUNNN	PNO: Faat Trig: Free #GainLow #Atten: 20	dB OTT P NNNN	Auto Tune						
10 dB/div Ref 10.50 dBm	kr2 2.461 00 GHz -1.40 dBm	Auto Tune Ref Offset 0.5 dB Mkr2 2.480 00 G 10 dB/div Ref 10.50 dBm -4.28 dE								
	- profil	enter Freq 0.500 01 500000 GHz 0.50		enter Fred						
226 286 485		Start Freq 23.5 500000 GHz 29.5 49.5		Start Free						
05 05 75		Stop Freq 20 5 50000 GHz 79 5		Stop Free						
	Stop 2.46150 GHz 2.467 ms (1001 pts)	CF Step Start 2.45150 GHz 000000 MHz #Res BW 100 kHz #VBW 100 kHz	Auto	CF Step						
V V Fallerion Factorion 1 N 1 2.442.00.GHz -2.218.dBm 3 1 2.481.00.GHz -1.40.dBm 4 - - -1.40.dBm	1711	Cost source line A F 2.452.00 GHz 4.57.dB Freq Offset N r 2.452.00 GHz 4.57.dB 0 Hz A r 2.450.00 GHz 4.28.dB 0 Hz -4 - - - 0 Hz - - - -		req Offse D Ha						
7 8 9 10 11 11 11 11 11 11 11 11 11		7 8 9 10 11								
an J/Alignment Completed sta	ATIMO.	AANI .	STATUS							



8. Channel Separation

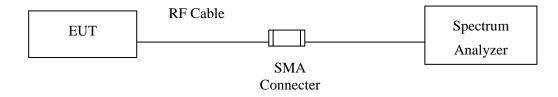
8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments mark by "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limit

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

8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

8.5. Uncertainty

 \pm 150Hz

8.6. Test Result of Channel Separation

Product	:	Digital Camera
Test Item	:	Channel Separation
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK)

	Fraguanau	Measurement	Limit	Limit of (2/3)*20dB	
Channel No.	Frequency (MHz)	Level	(kHz)	Bandwidth (kHz)	Result
	(WIIIZ)	(kHz)	(KIIZ)	Danuwidun (KHZ)	
00	2402	1000	>25 kHz	766.7	Pass
39	2441	1000	>25 kHz	760.0	Pass
78	2480	1000	>25 kHz	766.7	Pass

NOTE: The 20dB Bandwidth is refer to section 10.

🊺 Key	ysight	Spect	rum A	Analyzer - Sw	ept SA							,			
Cen		Fre	RF eq 2	50 Ω 2.40200	AC 0000	GHz		1	ISE:INT	Avg T		LIGN AUTO	TR	PM Feb 21, 2016 ACE 1 2 3 4 5	6 Frequency
						PNO: W IFGain:I	/ide 🖵 Low	#Atten: 2				Mkr		B 00 GHz	
10 dE Log	B/div			Offset 0.9 10.50					1			WINI		.16 dBm	
0.500 -9.50									21	2					Center Freq 2.402000000 GHz
-19.5	-		+			_			~~						
-29.5 -39.5 -49.5			+			_					Yr-	Jan 1			Start Freq 2.397000000 GHz
-49.0 -59.5 -69.5	وسوالب	مورون م	vila	والمعالي الاستراريونيا،	havene	and the second	r					hould	Lignand (Inco	whenter	Stop Freq
-79.5			+												2.407000000 GHz
Cen #Re:				00 GHz kHz		;	#VBW	100 kHz			#S	weep 5		10.00 MHz (1001 pts)) 1.000000 MHz
MKR I 1	Ν	1	f			2 00 GH		Y 2.73 dl	3m	NCTION	FUNC	CTION WIDTH	FUNC		Auto Man
2 3 4 5	N	1	f		2.40	3 00 GH		2.16 dl	3m						Freq Offset 0 Hz
6 7 8															
9 10 11															
∢ MSG								III				STATUS	\$	Þ	

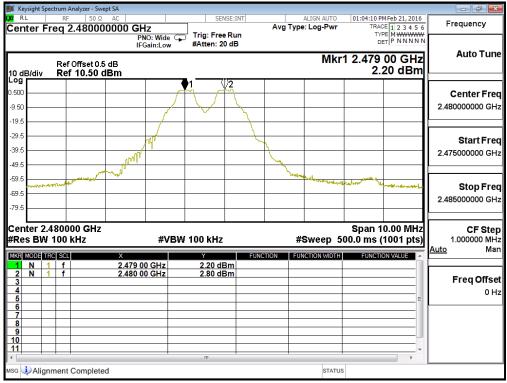
Channel 00 (2402MHz)



🊺 Key	ysight S	pectru	ım Ar	nalyzer - Sw	ept SA						,			
Cen			RF q2	50 Ω .44100				1	NSE:INT	Avg Typ	ALIGN AUTO	TRAC	M Feb 21, 2016 E 1 2 3 4 5 6	Frequency
					10	PNO: W IFGain:I	/ide 🖵 Low	Trig: Free #Atten: 2			Mkr	Di		
10 di Log	B/div			Offset 0.9 10.50 (,	1.	-		2.	72 dBm	
0.500 -9.50										2				Center Freq 2.441000000 GHz
-19.5 -29.5	-													
-39.5							لمرجع	and a second		ĥ	m .			Start Freq 2.436000000 GHz
-49.5 -59.5	Albert Me	Langer	merN	Land and the state	n in the second		/				ha	manner	Marrhouse Property	Stop Freq
-69.5 -79.5														2.446000000 GHz
Cen #Re				0 GHz Hz			#VBW	100 kHz		#	≠Sweep 5	Span 1 00.0 ms (0.00 MHz 1001 pts)	CF Step 1.000000 MHz Auto Man
MKR 1	MODE N		SCL f		X 2 4	41 00 GH	17	Y 2.72 dE		CTION FU	INCTION WIDTH	FUNCTION	DN VALUE	Auto Man
2 3 4 5 6	Ň		f			42 00 GF		2.72 dE	3m				E	Freq Offset 0 Hz
7 8 9														
10 11 <								III						
MSG											STATUS	5		

Channel 39 (2441MHz)

Channel 78 (2480MHz)





Product	:	Digital Camera
Test Item	:	Channel Separation
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK)

	Fraguanay	Measurement	Limit	Limit of (2/3)*20dB	
Channel No.	Frequency (MHz)	Level	(kHz)	Bandwidth (kHz)	Result
	· · · ·	(kHz)	· · /	,	
00	2402	1000	>25 kHz	953.3	Pass
39	2441	1000	>25 kHz	946.7	Pass
78	2480	1000	>25 kHz	953.3	Pass

NOTE: The 20dB Bandwidth is refer to section 10.

🎉 Keysight Spectrum Analyzer - Swe					
X RL RF 50 Ω Center Freq 2.40200	AC 0000 GHz	SENSE:INT	ALIGN A Avg Type: Log-I	TRACE 1 2 3 4 5 0	Frequency
Ref Offset 0.5 10 dB/div Ref 10.50 d		#Atten: 20 dB	Γ	معتر (مربع) 1.61 dBm-1.61 dBm/	Auto Tune
-19.50		1 marine	2 mmm		Center Freq 2.402000000 GHz
-29.5	port	P		\	Start Freq 2.397000000 GHz
-59.5 -69.5 -79.5	Marcanigh Agan aller				Stop Free 2.407000000 GH:
Center 2.402000 GHz #Res BW 100 kHz	#VBW	100 kHz	#Swee	Span 10.00 MHz p 500.0 ms (1001 pts)	
1 N 1 f 2 N 1 f 3 4 5 6	2.402 00 GHz 2.403 00 GHz	-1.61 dBm -1.61 dBm			Freq Offse 0 H:
7					
MSG		III	s	TATUS	

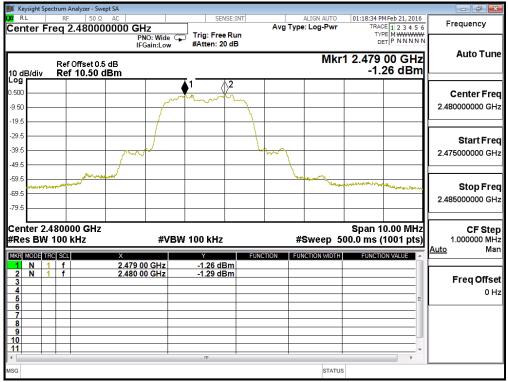
Channel 00 (2402MHz)



			_				Chuim		(= : : :						
-		Spect		nalyzer - Swe											
l,XI R	_		RF	50 Ω	AC		SE	NSE:INT			ALIGN AUTO		M Feb 21, 2016		Frequency
Cen	ter	Fre	q 2	2.44100	0000 GH			_	Avg T	Туре	: Log-Pwr	TRAC	E 1 2 3 4 5 6		riequency
						IO: Wide	Trig: Fre #Atten: 2								
					IFC	Gain:Low	#Atten: 2	U dB					-11.		Auto Tuno
											Mkr	2 2.442	00 GHz		Auto Tune
				Offset 0.5									50 dBm		
10 d Log	Blaiv	<u> </u>	Rei	⁻ 10.50 c	авш										
0.500								⊕1	●2						
0.500							~~1	h	Art len						Center Freq
-9.50			_											2.	441000000 GHz
-19.5									1	\backslash					
-19.5															
-29.5			-				+/								Start Freq
-39.5															•
-39.5						M	ম প			- M	how h			2.	436000000 GHz
-49.5			-								-+				
-59.5											\				
-05.0		-		an inder a strate	and a state of the							Carly Manufar	munuhan		Stop Freq
-69.5	-						_								• •
-79.5														2.4	446000000 GHz
-75.5															
												a			
				00 GHz									0.00 MHz		CF Step
#Re	s Bl	W 1	00	KHZ		#VB	W 100 kHz			#5	Sweep 5	00.0 ms (1001 pts)		1.000000 MHz
MKR	MODE	TRC	901		X		Y	l F	UNCTION	ELIN	CTION WIDTH	EUNCTI	ON VALUE	Auto	<u>o</u> Man
1	N	1	f		2.441 0		-1.50 d		UNCTION	TON	CHON WETH	ronen	JN VALUE		
2	N	1	f		2.441 0		-1.50 d								
3					2.112.0										Freq Offset
4															0 Hz
5													=		
6								_							
7															
9															
10															
11													-		
•							III						•		
MSG											STATUS				

Channel 39 (2441MHz)

Channel 78 (2480MHz)



9. Dwell Time

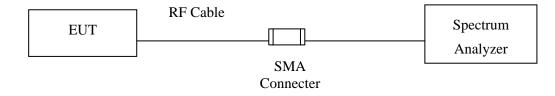
9.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

9.2. Test Setup



9.3. Limit

The dwell time shall be the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

9.5. Uncertainty

 \pm 25msec

9.6. **Test Result of Dwell Time**

Digital Camera
Dwell Time
No.3 OATS
Mode 1: Transmit - 1Mbps (GFSK) (Channel 00,39,78 –DH5)

Frequency (MHz)	Time slot length (ms)	Hopping of Number	Sweep time (ms)	Duty cycle	Dwell Time (Sec)	Limit (Sec)	Result
2402	2.888	13	50	0.75	0.300	0.4	Pass
2441	2.888	13	50	0.75	0.300	0.4	Pass
2480	2.888	13	50	0.75	0.300	0.4	Pass

Duty cycle = ((Time slot length(ms)*Hopping of Number) / Sweep time (ms)

Dwell time = (Duty cycle /79) * (79*0.4)

CH 00 Time Interval between hops

CH 00 Transmission Time Center Freq 2.402000000 GHz 1256 42991Feb 21, 2518 TRACE 1 2 3 4 5 1 TIME WWWWW enter Freq 2.40200000 GHz PHO: Tast Brain: Lum Atten: 30 Avg Type: Log-Pwr Frequ Avg Type: Log-Pwr Frequ Atten: 30 dl PANNA Auto Tur Auto Tu Mkr3 7,463 ms 2.97 dBm Ref Offset 0.5 dB Ref 20.50 dBn Ref Offset 0.5 dB Ref 20.50 dBm Center Fre 2 ▲3 Center Fre 02000000 G Start Fre Start Fre 2000000 G W-15014 and shall Stop Free 2.402000000 GH Stop Fre 2.402000000 GH CF Step 1.000000 MHz Mar CF Stej 1.000000 MH Ma enter 2.402000000 s BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (1001 pts) #VBW 1.0 MHz 3.716 ms 4.576 ms 7.463 ms 2.98 dBm 3.16 dBm 2.97 dBm Freq Offse Freq Offse 0H 0H Span 0 Hz Sweep 50.00 ms (1001 pts) nter 2.402000000 GHz s BW 1.0 MHz #VBW 1.0 MHz

CH39 Time Interval between hops

CH 39Transmission Time

The Street Carton and a long CA	Send that	ALTER ACT DE 01 01 05 PH FM	21,2800	< 9 8	B Annu		54.07				and two		And Lot	C1 80/54 PH Feb 21, 250	
Center Freq 2.441000000 GHz	A Trig: Video Atten: 30 dB	vg Type: Log-Pwr Thile I	23456	Frequency	Cente	r Freq 2	.44100	1	NO: Fast: C.	Trig: Vie	eo an	Avg Typ	e: Log-Pwr	THACE 1 2 3 4 5	Frequency
Ref Offset 0.5 dB 10 dB/div Ref 20,50 dBm	Ref Offset 0.5 dB Mkr3 7.463 m dB/d/y Ref 20.50 dBm 2.81 dBr				e Ref Offset 0.6 dB. antif Mittin 10 dBildin Ref 20.50 dB. 10 dBildin Ref 20.50 dBm								Auto Tune		
10.5	Q ¹ Q ²	¢ ³	_	Center Freq 2.441000000 GHz	(0.5)								-		Center Free 2:441000000 GH
95) 105 206 25			molive	Start Freq 2.441000000 GHz	9 400 -	1						T		I	Start Free 2.441000000 GH
476 中州小小 195	lydening	langtua		Stop Freq 2.441000000 GHz	-195-										Stop Free 2.441000000 GH
Center 2.441000000 GHz Res BW 1.0 MHz		Spa Sweep 10.00 ms (10		CF Step 1.000000 MHz Auto Men	39.5									mio.	CF Ste 1,000000 MH <u>Auto</u> Ma
1 N 1 371 2 N 1 457 8 N 1 7,46 4 5	6 ms 2.82 dBm 5 ms 3.01 dBm 3 ms 2.81 dBm			Freq Offset 0 Hz	(明点	*	-				-	Me 17	*	N 10 13	Freq Offse 0 H
9. 7. 8. 9. 9. 10. 11.						r 2.44100 W 1.0 MH		Hz	ave.	V 1.0 MH			Sween	Span 0 H 50.00 ms (1001 pt	
AND		STATED.			Nin D	1.0 min				1.2 000			в саты		-1



CH 78 Time Interval between hops

CH 78 Transmission Time

Annual Sector Associate Sa	2.4.4	B toget (second second s	0 0 M
enter Freq 2.480000000 GHz PHOLE Tax High Video Atten 30 dB Atten 30 dB	Frequency	Center Freq 2.480000000 GHz Trig Video Avg Type Log-Per Trid 12.3415	Frequency
Ref Offset 05 dB Mkr3 7,463 m dB/dtv Ref 20.50 dBm 3.11 dBr	Auto Tune		Auto Tun
	Center Freq 2.480000000 GHz		Center Fre 2.48000000 GH
5 5 5 5	Start Freq 2,480000000 GHz		Start Fr 2.490000000 G
portal countrel countrel	Stop Freq 2.480000000 GHz		Stop F 2.480000000
nter 2,48000000 GHz Span 0 H s BW 1.0 MHz \$veep 10.00 ms (1001 pt (1000 High (20) x 10 MHz \$veep 10.00 ms (1001 pt	s) 1.000000 MHz		CF St 1.000000 M Auto N
1 N 1 37/19ms 313.98m 2 N 1 4575ms 343.98m N 1 7463ms 311.08m 5	Freq Offset 0 Hz	20 č	Freq Offs
		Center 2.480000000 GHz Span 0 Hz Span 0 Hz Span 0 Hz Sweep 50.00 ms (1001 pts)	
a gratus	1	o	

Note:

The dwell times of the packet type of DH1, DH3, and DH5 are tested. Only the worst case is shown on the report.

Product	:	Digital Camera
Test Item	:	Dwell Time
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (Channel 00,39,78 –DH5)

Frequency (MHz)	Time slot length (ms)	Hopping of Number	Sweep time (ms)	Duty cycle	Dwell Time (Sec)	Limit (Sec)	Result
2402	2.888	13	50	0.75	0.300	0.4	Pass
2441	2.888	13	50	0.75	0.300	0.4	Pass
2480	2.887	13	50	0.75	0.300	0.4	Pass

Duty cycle =((Time slot length(ms)*Hopping of Number) / Sweep time (ms)

Dwell time = (Duty cycle /79) * (79*0.4)

CH 00 Time Interval between hops

011312870Fee21,250 TRACE \$ 3.3 4 5 TRACE \$ 3.3 4 5 OFT P NNNN enter Freq 2.40200000 GHz PNO: Tast PNO: Tast Property of the state of enter Freq 2.40200000 GHz Avg Type: Log-Pwr Frequency Avg Type: Log-Pwr Frequ ALE 12345 Auto Tur Auto Tu Mkr3 7.463 ms 0.41 dBm Ref Offset 0.5 dB Ref 20.50 dBm Ref Offset 0.5 dB Ref 20.50 dBm Center Fre Center Fre ♦3 2000000 Gi 2000000 G Start Fre Start Fre 2000000 G 000000 Make Number Stop Free Stop Fre 000000 (2 2.40 2 40 enter 2.402000000 GHz es BW 1.0 MHz CF Ste CF Step 1.000000 MHz Man Span 0 Hz Sweep 10.00 ms (1001 pts) #VBW 1.0 MHz M -0.49 dBm -1.18 dBm 0.41 dBm 1 N 1 2 N 1 3,716 ms 4,576 ms 7,463 ms Freq Offse Freq Offse 0H Span 0 Hz Sweep 50.00 ms (1001 pts) 2.402000000 GHz N 1.0 MHz #VBW 1.0 MHz

CH39 Time Interval between hops

CH 39Transmission Time

CH 00 Transmission Time

AL BE SHOL		6,101 A.T. 0113-17 PHP/# 21/2016		St. Scinger (- G			and the	-	ALCO LOS	01-13-02 999		
Center Freq 2.441000		Avg Type: Log-Pwr Trist 1 2 3 4 5 0	Frequency	Center F	req 2.441	000000 G	Hz NO: Fast G	Trig Vid			e Log-Pwr	THACE	123456	Frequency
Ref Offset 0.5 c 10 dB/div Ref 20.50 dB	Auto Tune	Auto Tune Ref Offset 0.5 dB Corr Min								PANANA	Auto Tun			
600			Center Freq 2.441000000 GHz	10.6	-					_	1		-	Center Fre 2.441000000 GH
195 975		THISLM.	Start Freq 2.441000000 GHz	9 ED									1	Start Fre 2.441000000 GH
en 6 en 6 en 6	heyeyek	yorand	Stop Freq 2.441000000 GHz	.19.5 .29.5										Stop Fre 2.441000000 GH
Center 2.441000000 GH tes BW 1.0 MHz	#VBW 1.0 MHz	Span 0 Hz Sweep 10.00 ms (1001 pts)		39.5 49.5									14.0 M	CF Ste 1.000000 Mi Auto Mi
1 N L 2 N 1 N 1 4 5	3,716 ms -0.36 dBm 4,576 ms -1.01 dBm 7,463 ms 0,50 dBm		Freq Offset 0 Hz	朝ら	•	e ,		18			-	•	-1	Freq Offs
7 8 9 10 11				Center 2 Res BW	441000000 1.0 MHz	GHz	#VBV	V 1.0 MH;	2		Sweep 6	Sp 50.00 ms (1	an 0 Hz 001 pts)	
961 -		grátus.	-								IS LATES	a		6



CH 78 Time Interval between hops

CH 78 Transmission Time

R. Sample Gr	etun ause raugi Gi			A STATE AND A	< 4 K	Station of the local division of the local d		- 64		_						
Center F	req 2.480000000 GHz	Tast (Trig Video	Avg Type: Log-Pwr	111114120000000000000000000000000000000	Frequency	Center Fr	eq 2.4800	00000 G	Hz	1	THE REAL	Avg Ty	HILOG-PWT	78.	12 1 2 3 4 5 4	Frequency
10 dB/div	Ref Offset 0.5 dB Ref 20,50 dBm	Tast Trig: Video nLow Atten: 30 dB		Mkr3 6.633 ms 0.37 dBm	Auto Tune	10 dB/div	Ref Offset0 Ref 20.50	- 5	PNO: Tast G FGain:Low	Atten: 3	0 118			-	STT P N N N N	Auto Tune
10.5 0.500		0 ²			Center Freq 2.48000000 GHz	(8.5)										Center Freq 2.48000000 GHz
19.5 29.5				TROLVI	Start Freq 2.480000000 GHz	9.500 9.500										Start Fre 2.480000000 GH
95	, hay	(AMAN)	system		Stop Freq 2.48000000 GHz	-19.5										Stop Fre 2.480000000 GH
enter 2. es BW 1		#VBW 1.0 MHz	Sweep 1	Span 0 Hz 0.00 ms (1001 pts)	CF Step 1.000000 MHz Auto Man	395									THE AL	CF Ste 1.000000 Mi Auto Ma
1 N 2 N 4 5	t 2,887 t 3,746 t 6,633	ms -0.67 dBm			Freq Offset 0 Hz	49 5 1		*		-	¥9.	W 6	, ,	M	N 10	Freq Offse 0 H
6 7 8 9 10 11						Center 2.4 Res BW 1	80000000	GHz	#VPN	V 1.0 MH			Sween		Span 0 Hz (1001 pts)	
			STATES			nea DW 1	A HILL		*****	·			aweep a	_	(iso i pis)	

Note:

The dwell times of the packet type of DH1, DH3, and DH5 are tested. Only the worst case is shown on the report.



10. Occupied Bandwidth

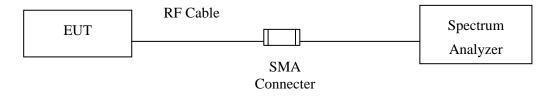
10.1. Test Equipment

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

10.2. Test Setup



10.3. Limits

N/A

10.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

10.5. Uncertainty

± 150Hz

10.6. Test Result of Occupied Bandwidth

Product	:	Digital Camera
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 1Mbps (GFSK)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	894		NA
39	2441	894		NA
78	2480	893		NA

Figure Channel 00:

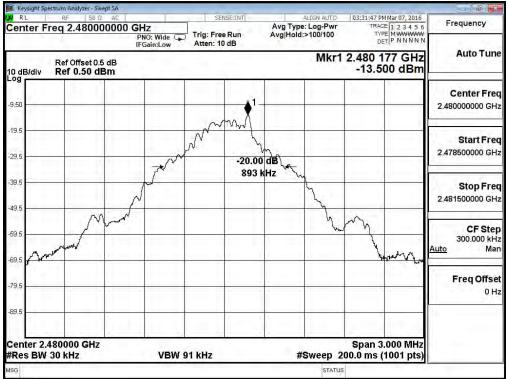
							pectrum Analyzer - Swi	
Frequency	13:29:59 PM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWW	LIGN AUTO		SENSE:INT	-Iz	00000 GH	RF 50 Ω Treq 2.40200	RL Center I
Auto Tun	402 168 GHz		, reginere	Atten: 10 dB	NO: Wide 😱 Gain:Low	IF .5 dB	Ref Offset 0.5	
	-10.542 dBm			-		IBm	Ref 0.50 dE	10 dB/div
Center Fre 2.402000000 GH				m			-	-9.50
Start Fre			h	\wedge	~			19.5
2.400500000 GH		-		-20.0 894	T			-29.5
Stop Fre 2.403500000 GH		Y I			Γ			-39.5
05.04-	M -	h				har	M	49.5
CF Ste 300.000 kH Auto Ma	haman						which	59.5 69.5
Freq Offse							1, 1, [
0 H	<u>2</u> →							79.5
		1	-					-89.5
	Span 3.000 MHz .0 ms (1001 pts)	Sweep 20	#	kHz	VBW 9	2	402000 GHz 30 kHz	Center 2 #Res BW
		STATUS		A de la la companya de la companya d				MSG



								ctrum Analyzer - Su	
Marker	03:30:53 PM Mar 07, 2016 TRACE 1 2 3 4 5 6	ALIGN AUTO		SENSE:INT	1.20.2			RF 50 9	RL arker 1
Select Marker	TYPE MWWWW DET PNNNNN	ld:>100/100	Avg Hol	Free Run 1: 10 dB		PNO: Wide G			2.55
1	2.441 171 GHz -12.488 dBm	Mkr1						Ref Offset 0. Ref 0.50 d	0 dB/div
Norma		17-		<u>+</u> 1		1 1 1	(int		9.50
				mm	- N				19.5
Delt			de	-20.0	1°			_	29.5
Fixed		m	kHz *	894	-	5		_	39.5
Fixed	<u>M.</u>	- V	-	-		V	Nund	N	19.5
o	how when						r	a contraction of the second se	59.5 59.5
Properties									79.5
Mor			-						39.5
1 of	Span 3.000 MHz 00.0 ms (1001 pts)	#Sweep 20			91 kHz	VBW	z	41000 GHz 30 kHz	enter 2.4 Res BW
		STATUS							SG

Figure Channel 39:

Figure Channel 78:





Product	:	Digital Camera
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1310		NA
39	2441	1309		NA
78	2480	1310		NA

Figure Channel 00:

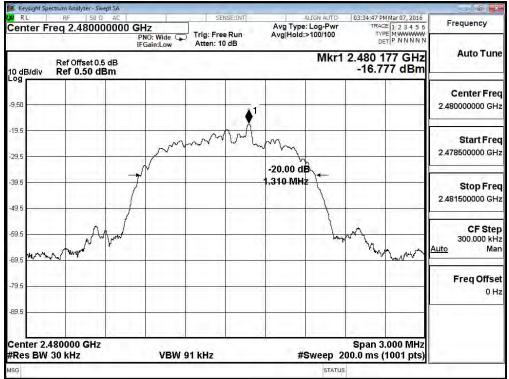
Keysight Spectrum Analyzer - Swept SA							
XI RE 50Ω AC		SENSE(INT	Avg Type:	LIGN AUTO		PM Mar 07, 2016	Frequency
Center Freq 2.40200000	PNO: Wide CP IFGain:Low	Trig: Free Run Atten: 10 dB	Avg Hold:>		T	CE 1 2 3 4 5 6 PE MWWWW DET P NNNN	
Ref Offset 0.5 dB 10 dB/div Ref 0.50 dBm	in connectiv			Mkr1		168 GHz 210 dBm	Auto Tune
-9.50		∳ 1					Center Fre 2.402000000 GH
29.5	m	marth	-20.00 dB				Start Fre 2.400500000 GH
39.5	7		1.310 MHz	7			Stop Fre 2.403500000 GH
59.5 mm/w/				h	Ar two	him	CF Ste 300.000 kH Auto Ma
79.5				-			Freq Offs 0 F
89.5						1.00	
Center 2.402000 GHz #Res BW 30 kHz	VBW 9	1 kHz	#S	weep 2		3.000 MHz (1001 pts)	
MSG				STATUS	1		<u></u>



Keysight Spectrum Analyzer - Swept SA					100000		×
RL RF 50 Ω AC Center Freq 2.441000000 2.441000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.4410000000 2.44100000000 2.44100000000 2.44100000000 2.44100000000 2.44100000000 2.44100000000 2.44100000000 2.44100000000 2.4410000000000 2.44100000000 2.44100000000 2.44100000000 2.441000000000 2.441000000000 2.441000000000 2.441000000000 2.4410000000000 2.4410000000000 2.44100000000000 2.441000000000000000000 2.44100000000000000000000000000000000000	GHz	SENSERINT	Avg Type: Lo		03:33:46 PM TRACE	123456	Frequency
	PNO: Wide G	Trig: Free Run Atten: 10 dB	Avg Hold:>10				-
Ref Offset 0.5 dB 0 dB/div Ref 0.50 dBm				Mkr1	2.441 1	71 GHz 33 dBm	Auto Tun
.og	1000		1.5.61				Center Fre
9.50		î	+				2.441000000 GH
19.5		mm	m	-			Start Fre
29.6	m		1 mg				2.439500000 GH
39.5	7/1		-20.00 dB 1.309 MHz	-			Stop Fre
49.5							2.442500000 GH
	1 12 1				-0		CF Ste
59.5 59.5 59.5 59.5 59.5 59.5 59.5 59.5				here	An Muse	hum	300.000 kH Auto Ma
69.5						Vern	
79.5							Freq Offse 0 H
39.5							1
Center 2.441000 GHz Res BW 30 kHz	VBM	91 kHz	#914	ieen 2	Span 3. 00.0 ms (*	000 MHz	
sg	4 D 9 8	v i n112	# 3 ₩	STATUS	, en oro	vo i proj	<u>h</u>

Figure Channel 39:

Figure Channel 78:



11. EMI Reduction Method During Compliance Testing

No modification was made during testing.