



# Radio Test Report

## FCC ID:BBQEXFR10

This report concerns (check one) :  Original Grant  Class II Change

Issued Date : Jun. 04, 2014  
Project No. : 1404167  
Equipment : DIGITAL CAMERA  
Model Name : EX-FR10

Applicant : CASIO COMPUTER CO., LTD.  
Address : 2-1, Sakaecho 3-chome, Hamura-shi  
Tokyo 205-8555, Japan

Tested by: Neutron Engineering Inc. EMC Laboratory  
Date of Receipt: Apr. 10, 2014  
Date of Test: Apr. 10, 2014 ~ Jun. 03, 2014

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**Neutron** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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**REPORT ISSUED HISTORY**

Issue No.	Description	Issued Date
NEI-FCCP-1-1404167	Original report.	Jun. 04, 2014



## 1 CERTIFICATION

Equipment : DIGITAL CAMERA  
Brand Name : CASIO  
Model Name : EX-FR10  
Applicant : CASIO COMPUTER CO., LTD.  
Date of Test : Apr. 10, 2014 ~ Jun. 03, 2014  
Standard(s) : FCC Part 15, Subpart C: 2013  
ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1404167) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



## 2. SUMMARY OF TEST RESULTS

Standard Clause	Test Item	Result
15.207	Conducted Emission	<b>PASS</b>
15.247 (c)	Antenna conducted Spurious Emission	<b>PASS</b>
15.247 (a)(1)	Hopping Channel Separation	<b>PASS</b>
15.247 (b)	Maximum Peak Conducted Output Power	<b>PASS</b>
15.247 (c)	Radiated Spurious Emission	<b>PASS</b>
15.247 (b)(1)	Number of Hopping Frequency	<b>PASS</b>
15.247 (a)(1)	Average time of occupancy	<b>PASS</b>
15.205	Restricted Bands	<b>PASS</b>
15.203	Antenna Requirement	<b>PASS</b>

NOTE:

1. **N/A**: denotes test is not applicable in this Test Report





**2.1 TEST FACILITY**

The test facilities used to collect the test data in this report:

**Conducted emission Test:**

**C02:** (VCCI RN: C-3477; FCC RN: 614388; FCC DN: TW1054)  
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

**Radiated emission Test (Below 1 GHz):**

**CB08:** (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)  
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

**Radiated emission Test (Above 1 GHz):**

**CB08:** (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)  
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

**2.2 MEASUREMENT UNCERTAINTY**

**The measurement uncertainty is not specified by FCC rules and for reference only.**

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95%**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

**A. Conducted emission test:**

Test Site	Measurement Frequency Range	U , (dB)	NOTE
C02	150 kHz ~ 30 MHz	1.94	

**B. Radiated emission test:**

Test Site	Item	Measurement Frequency Range	Uncertainty	NOTE	
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB	
			200 - 1000MHz	3.11 dB	
			1 - 18GHz	3.97 dB	
			18 - 40GHz	4.01 dB	
		Vertical Polarization	30 - 200MHz	3.22 dB	
			200 - 1000MHz	3.24 dB	
			1 - 18GHz	4.05 dB	
			18 - 40GHz	4.04 dB	

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our  $U_{lab}$  values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called  $U_{CISPR}$ , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our  $U_{lab}$  values are smaller than  $U_{CISPR}$ .



**3 GENERAL INFORMATION**

**3.1 GENERAL DESCRIPTION OF EUT**

Equipment	DIGITAL CAMERA	
Brand Name	CASIO	
Model Name	EX-FR10	
OEM Brand/Model Name	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	2402 MHz~ 2480 MHz
	Modulation Type	FHSS(GFSK 、 $\pi/4$ -DQPSK 、8DPSK)
	Bit Rate of Transmitter	1/2/3 Mbps
	Number Of Channel	Please refer to the Note 2.
	Antenna Designation	Please refer to the Note 3.
	Antenna Gain(Peak)	Please refer to the Note 3.
	Maximum Peak Conducted Output Power:	1 Mbps: -2.19dBm (0.0006W) 3 Mbps: -0.24dBm (0.0009W)
	More details of EUT technical specification please refer to the User's Manual.	
Power Source	#1 DC Voltage supplied USB host. #2 Battery supplied.	
Power Rating	#1 USB host (1) USB host: DC 5V (2) Adapter: CASIO/AD-C53U I/P AC 100-240V 50/60Hz 100mA O/P DC 5V 650mA #2 DC 3.7V 700mAh 2.6Wh	
Connecting I/O Port(s)	Please refer to the User's Manual	



**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	WIESON	A04	Chip	N/A	2.35



### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode	Data Rate	Tested Channel/Mode
Conducted Emission	FHSS(GFSK)	1 Mbps	2441 MHz
Antenna conducted Spurious Emission	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Hopping Channel Separation	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Maximum Peak Conducted Output Power	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Radiated Spurious Emission (30 MHz to 1 GHz)	FHSS(GFSK)	1 Mbps	2441 MHz
Radiated Spurious Emission (above 1 GHz)	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Number of Hopping Frequency	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz ~ 2480 MHz
Average time of occupancy	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Restricted Bands	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Antenna Requirement	FHSS(GFSK)	---	---

NOTE: The measurements are performed at the highest, middle, lowest available channels.



**3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING**

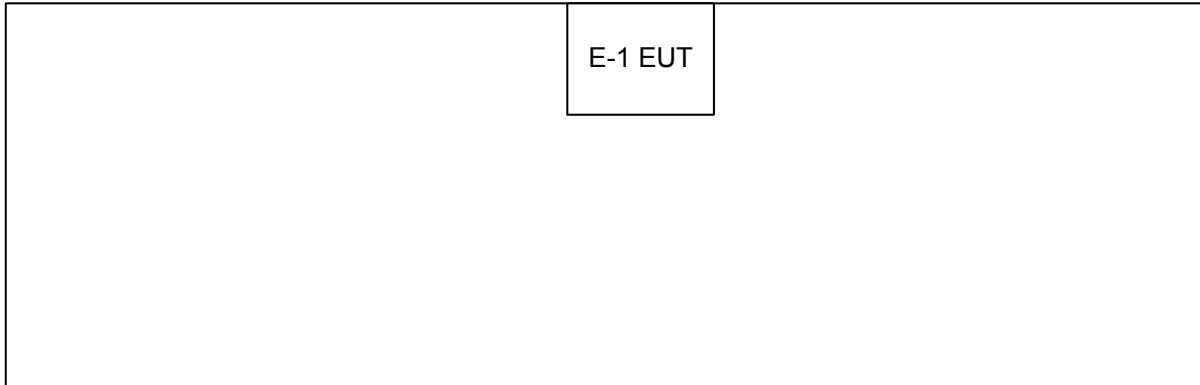
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Data Rate	1 Mbps		
Test software Version	N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameter	N/A	N/A	N/A

Data Rate	3 Mbps		
Test software Version	N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameter	N/A	N/A	N/A



**3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**





### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	DIGITAL CAMERA	CASIO	EX-FR10	BBQEXFR10	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).



**4 CONDUCTED EMISSION**

**4.1 LIMIT**

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 - 5.0	73.00	60.00	56.00	46.00
5.0 - 30.0	73.00	60.00	60.00	50.00

**NOTE:**

1. The tighter limit applies at the band edges.
2. The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
3. The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value – Limit Value

**4.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	Schwarzbeck	NSLK 8127	8127685	Jan. 08, 2015
2	Test Cable	TIMES	CFD300-NL	C01	Jun. 16, 2014
3	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jun. 20, 2014
4	Measurement Software	EZ	EZ_EMC (Version NB-02A)	N/A	N/A

NOTE: **N/A:** denotes No Model Name, No Serial No. or No Calibration specified.



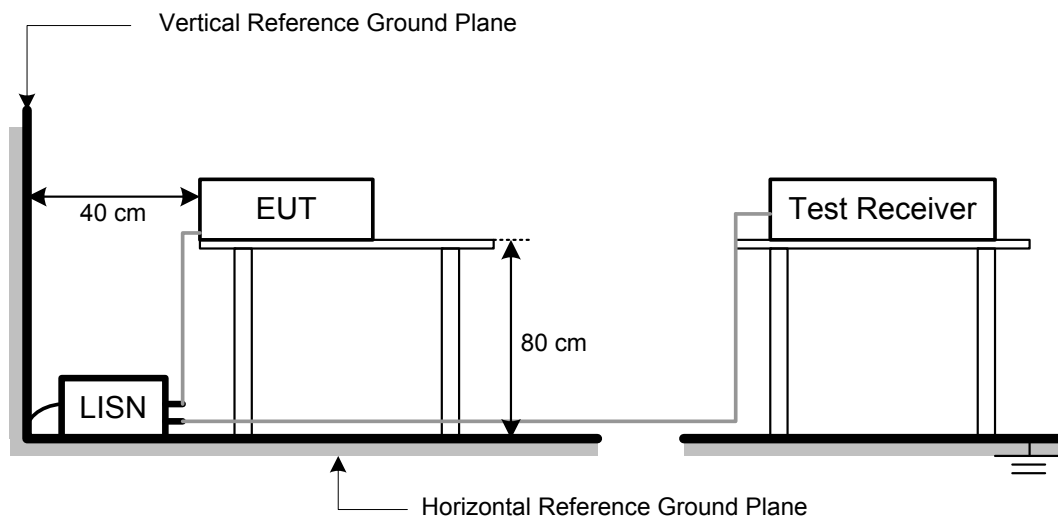
**4.3 TEST PROCEDURES**

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**NOTE:**

- a. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz (6 dB Bandwidth).
- b. All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only Peak or QP Mode was measured, but AVG Mode didn't perform.

**4.4 TEST SETUP LAYOUT**



**4.5 DEVIATION FROM TEST STANDARD**

No deviation



#### **4.6 EUT OPERATING CONDITIONS**

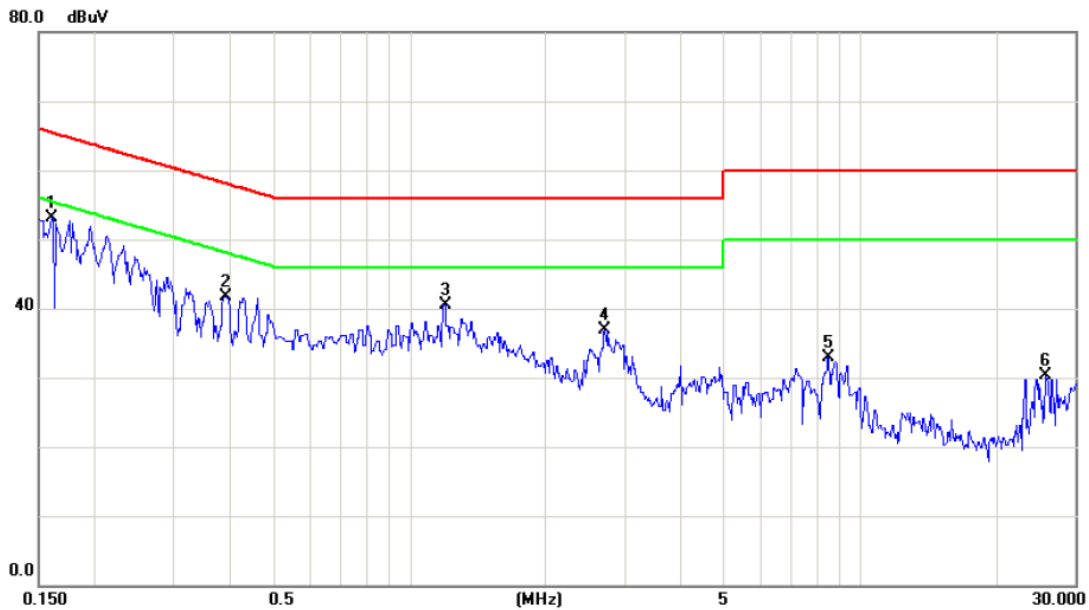
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



**4.7 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	48%
Test Voltage	120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Phase: Line**

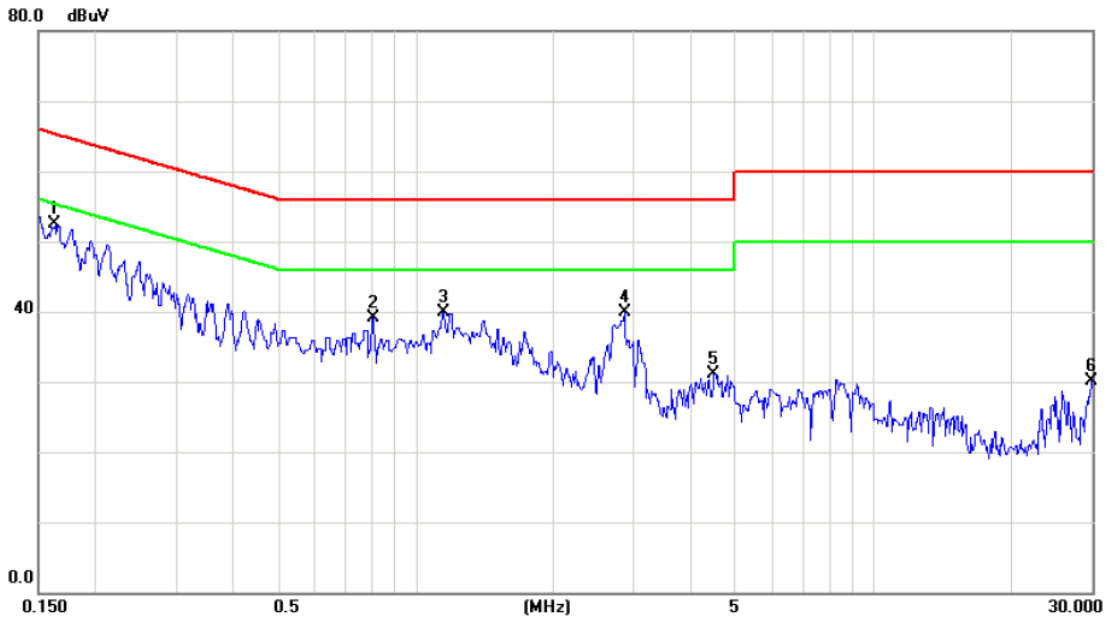


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1612	44.39	8.78	53.17	65.40	-12.23	peak	
2		0.3907	32.84	8.88	41.72	58.05	-16.33	peak	
3		1.1930	31.46	9.01	40.47	56.00	-15.53	peak	
4		2.7050	27.54	9.40	36.94	56.00	-19.06	peak	
5		8.5000	22.96	9.91	32.87	60.00	-27.13	peak	
6		25.7000	20.03	10.24	30.27	60.00	-29.73	peak	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	48%
Test Voltage	120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Phase: Neutral**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1621	43.67	8.79	52.46	65.36	-12.90	peak	
2		0.8060	30.21	8.95	39.16	56.00	-16.84	peak	
3		1.1480	30.90	8.99	39.89	56.00	-16.11	peak	
4		2.8490	30.42	9.42	39.84	56.00	-16.16	peak	
5		4.4690	21.35	9.71	31.06	56.00	-24.94	peak	
6		29.8000	19.70	10.31	30.01	60.00	-29.99	peak	



**5 ANTENNA CONDUCTED SPURIOUS EMISSION**

**5.1 LIMIT**

Test Item	Frequency Range (MHz)	Limit
Antenna conducted Spurious Emission	30-25000	20 dB less than the peak value of fundamental frequency

**5.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

**5.3 TEST PROCEDURES**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

**5.4 TEST SETUP LAYOUT**



**5.5 DEVIATION FROM TEST STANDARD**

No deviation

**5.6 EUT OPERATING CONDITIONS**

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



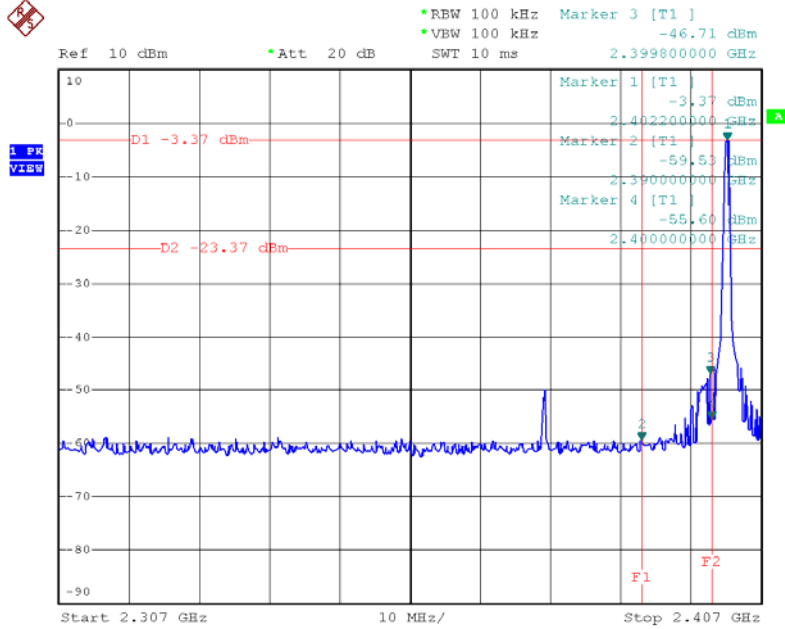
**5.7 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps		

Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2399.80	-46.71	2484.20	-54.16
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			

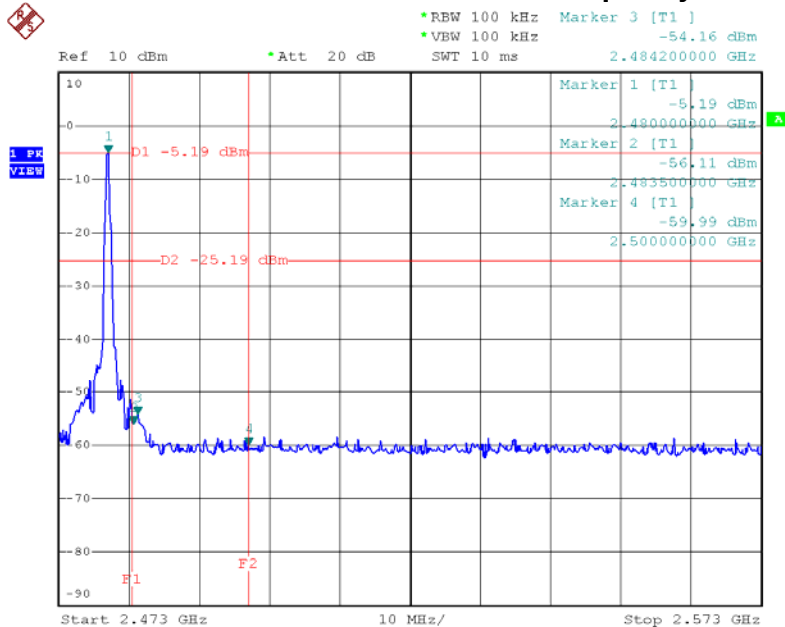


Bluetooth/1 Mbps/The max. radio frequency power in any 100kHz bandwidth outside the frequency band



Date: 24.APR.2014 13:25:03

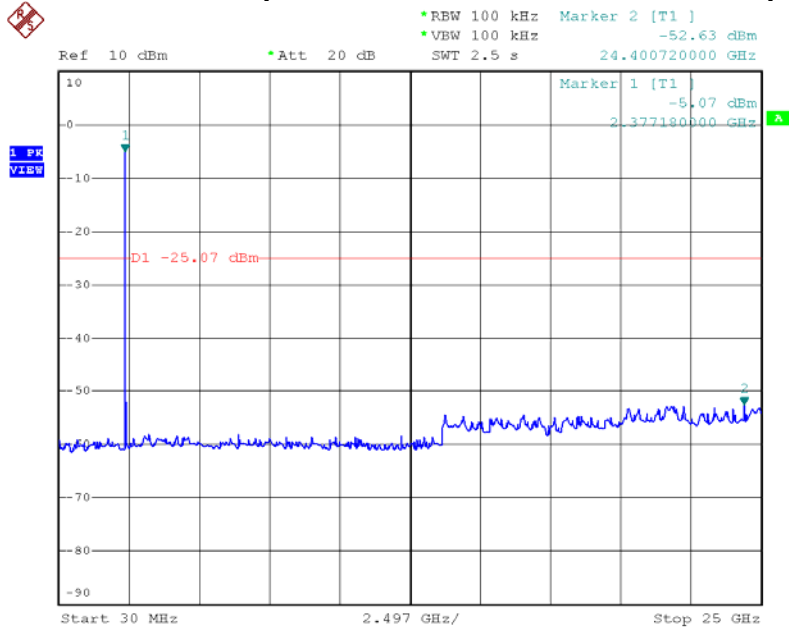
Bluetooth/1 Mbps/The max. radio frequency power in any 100 kHz bandwidth within the frequency band



Date: 24.APR.2014 13:36:39

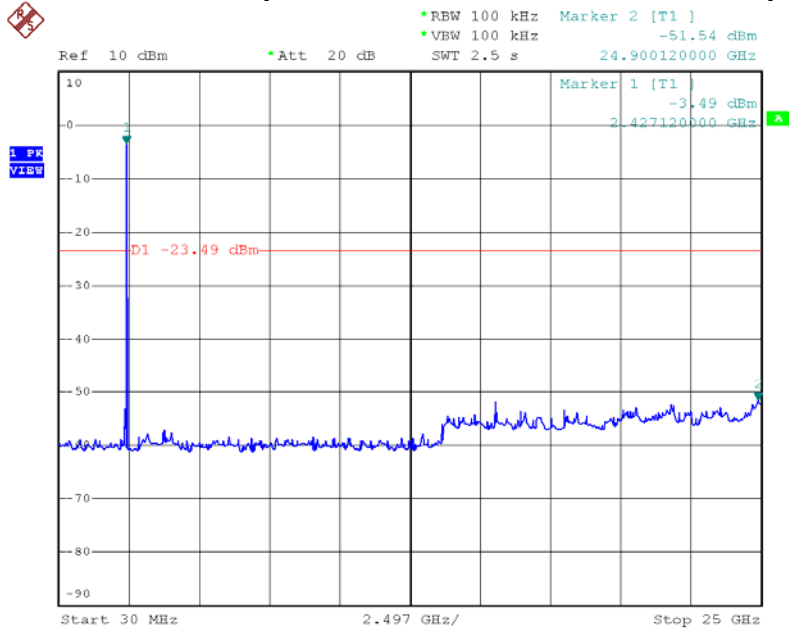


### Bluetooth/1 Mbps/2402 MHz/10 Harmonic of the frequency



Date: 24.APR.2014 13:24:19

### Bluetooth/1 Mbps/2441 MHz/10 Harmonic of the frequency

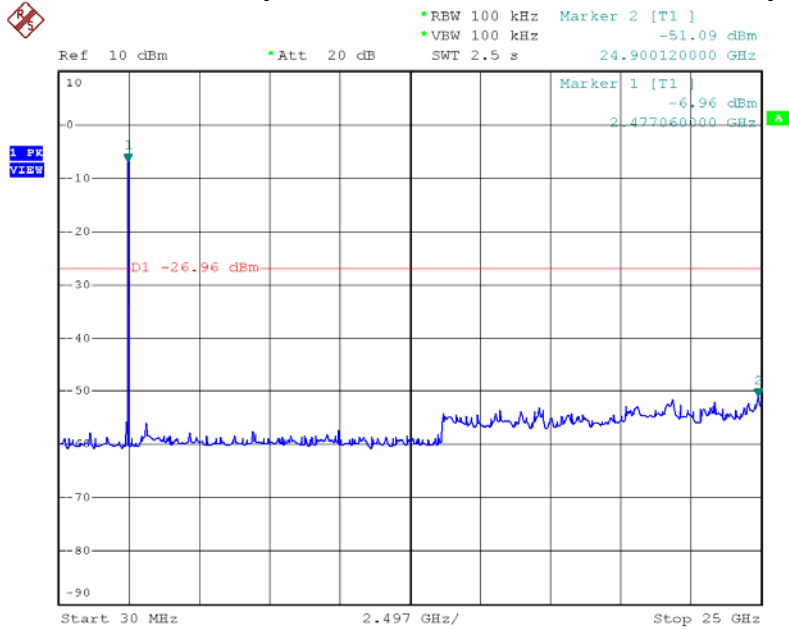


Date: 24.APR.2014 13:32:05





### Bluetooth/1 Mbps/2480 MHz/10 Harmonic of the frequency



Date: 24.APR.2014 13:35:47

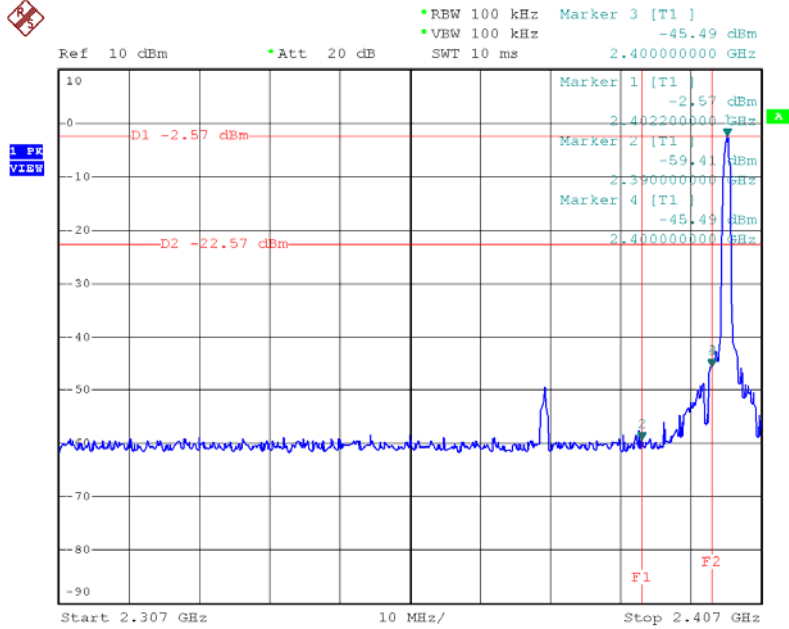


EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps		

Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-45.49	2484.00	-53.67
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			

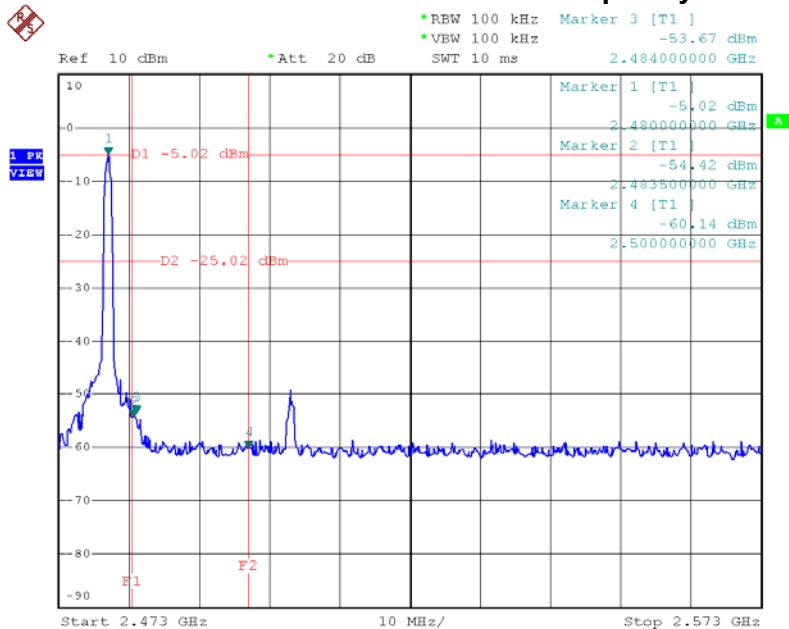


Bluetooth/3 Mbps/The max. radio frequency power in any 100kHz bandwidth outside the frequency band



Date: 24.APR.2014 14:09:37

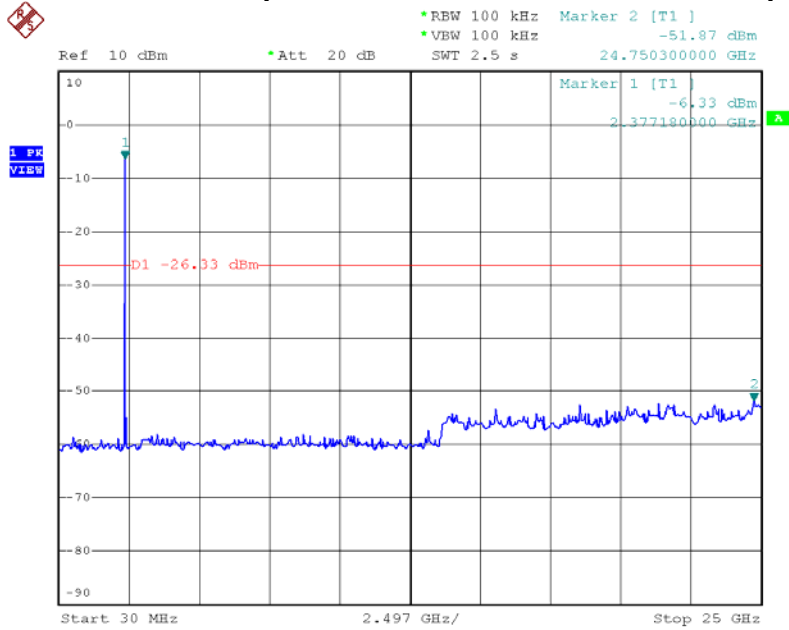
Bluetooth/3 Mbps/The max. radio frequency power in any 100 kHz bandwidth within the frequency band



Date: 24.APR.2014 14:13:41

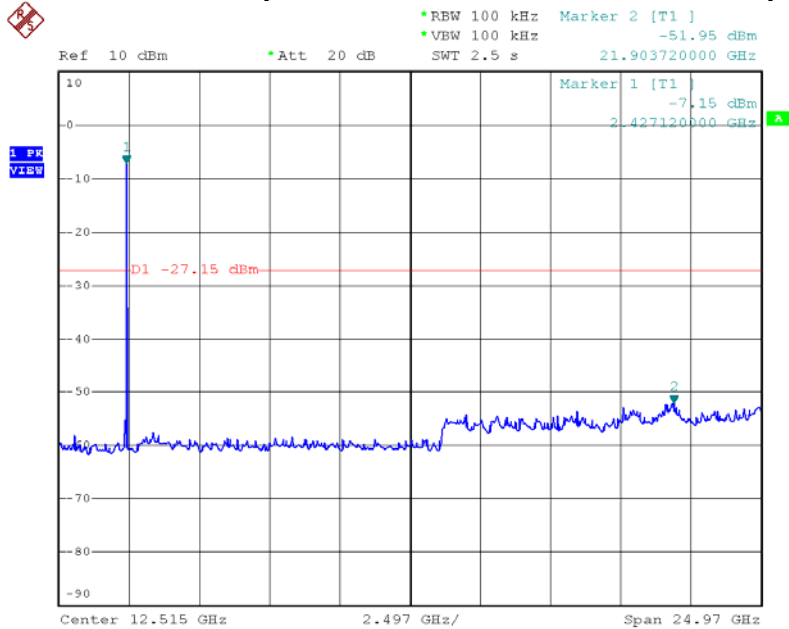


### Bluetooth/3 Mbps/2402 MHz/10 Harmonic of the frequency



Date: 24.APR.2014 14:08:48

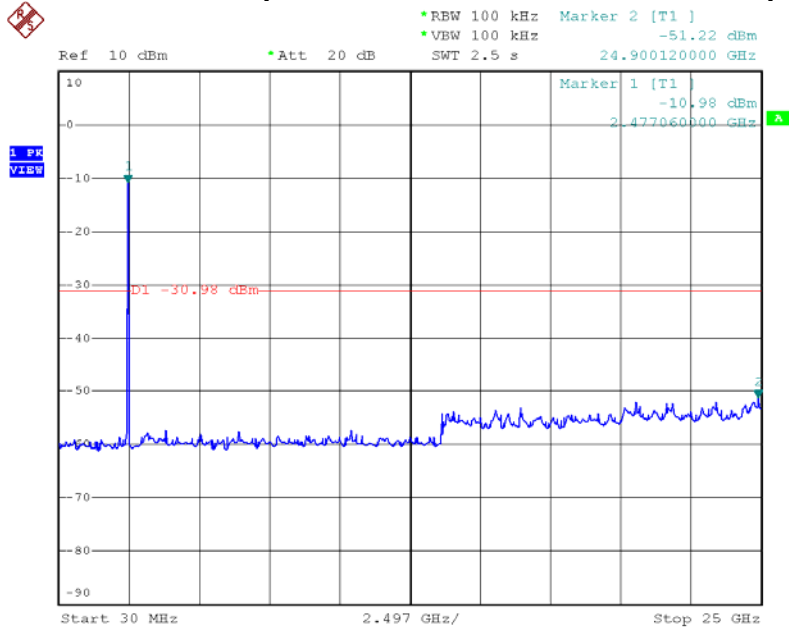
### Bluetooth/3 Mbps/2441 MHz/10 Harmonic of the frequency



Date: 24.APR.2014 14:10:56



### Bluetooth/3 Mbps/2480 MHz/10 Harmonic of the frequency



Date: 24.APR.2014 14:13:03



## 6 HOPPING CHANNEL SEPARATION

### 6.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

### 6.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

### 6.3 MEASURING INSTRUMENTS SETTING

EMI Test Receiver	Parameter Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 6.4 TEST PROCEDURES

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

### 6.5 TEST SETUP LAYOUT



### 6.6 DEVIATION FROM TEST STANDARD

No deviation

### 6.7 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**6.8 TEST RESULTS**

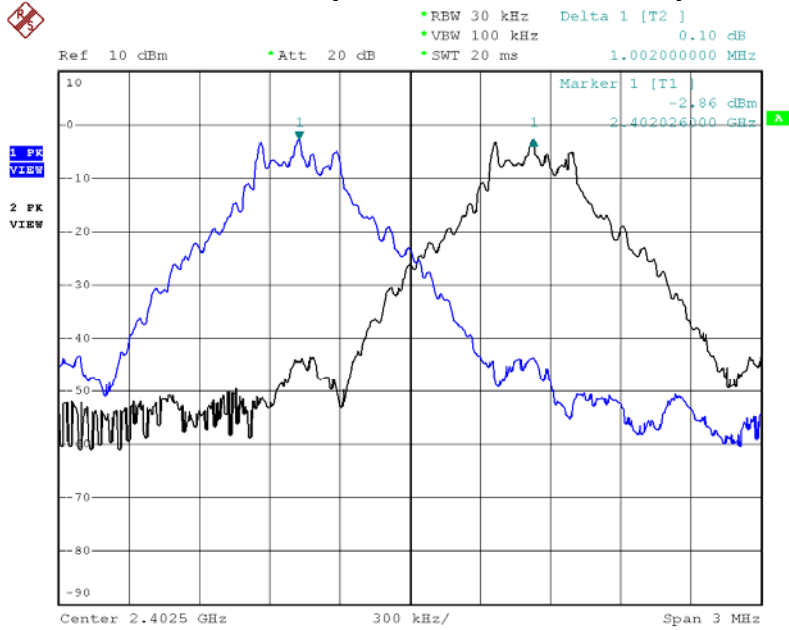
EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz, 2441 MHz, 2480 MHz		

Frequency	Channel Separation (MHz)	20 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Two-thirds of the 20 dB Bandwidth	Result
2402 MHz	1.002	0.922	0.844	0.615	PASS
2441 MHz	1.002	0.910	0.848	0.607	PASS
2480 MHz	1.002	0.918	0.844	0.612	PASS

NOTE: Ch. Separation Limits: >25 KHz or >2/3 of 20dB bandwidth

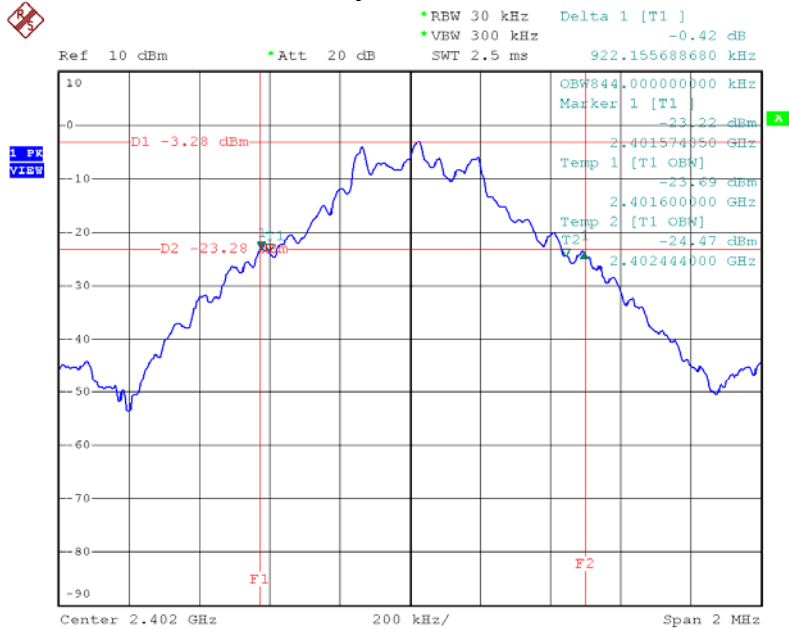


### Bluetooth/1 Mbps/2402 MHz/Channel Separation



Date: 24.APR.2014 14:00:47

### Bluetooth/1 Mbps/2402 MHz/20dB Bandwidth

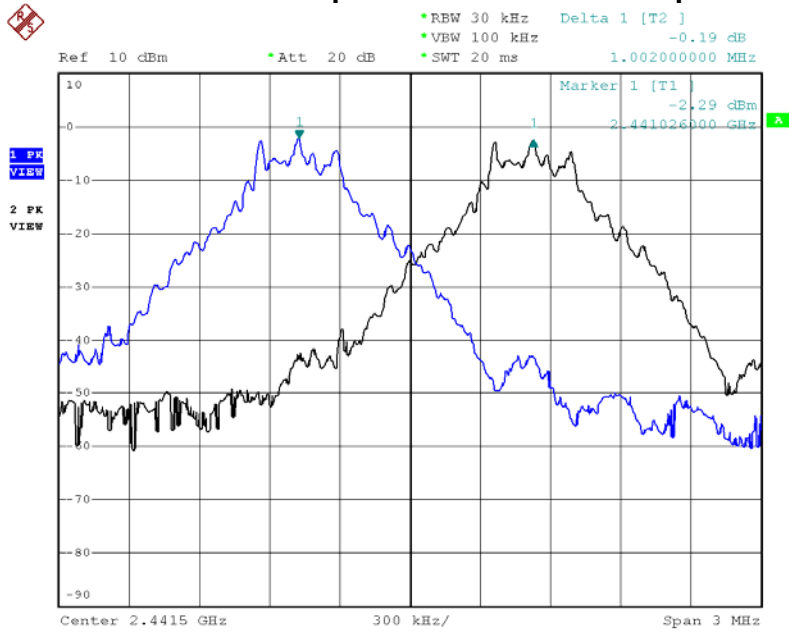


Date: 24.APR.2014 13:24:47



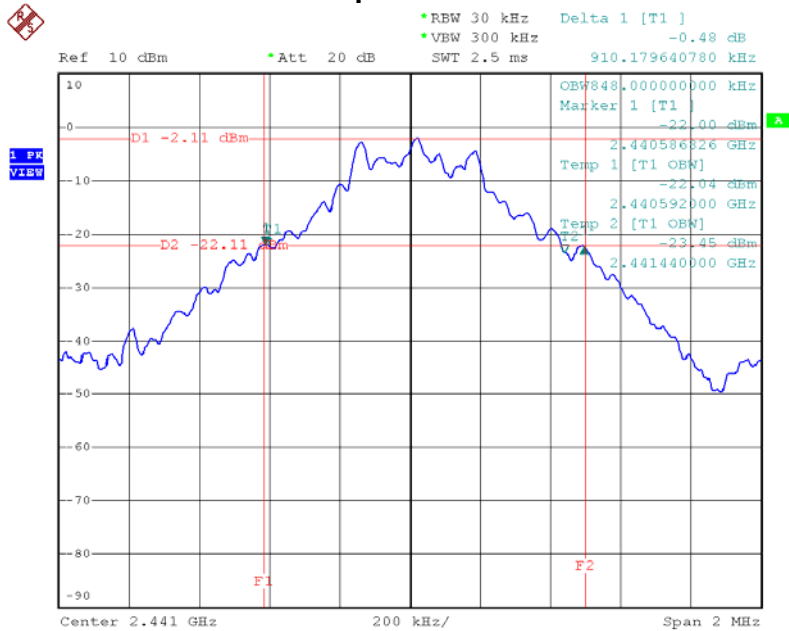


### Bluetooth/1 Mbps/2441 MHz/Channel Separation



Date: 24.APR.2014 14:01:34

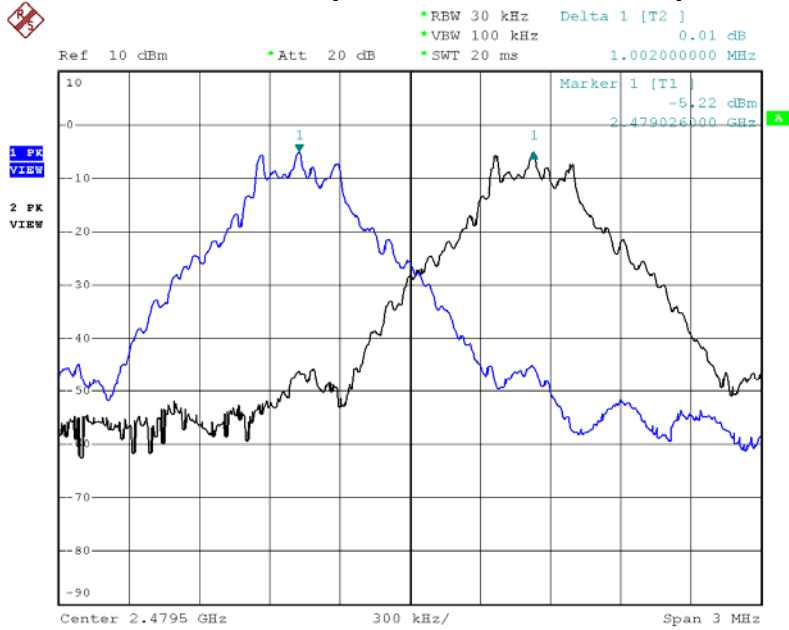
### Bluetooth/1 Mbps/2441 MHz/20dB Bandwidth



Date: 24.APR.2014 13:32:48

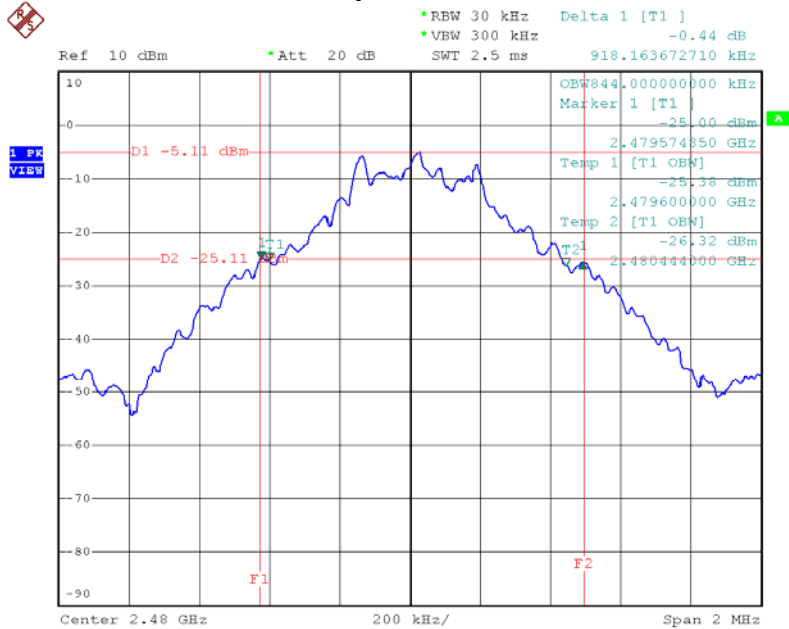


### Bluetooth/1 Mbps/2480 MHz/Channel Separation



Date: 24.APR.2014 14:04:34

### Bluetooth/1 Mbps/2480 MHz/20dB Bandwidth



Date: 24.APR.2014 13:36:12



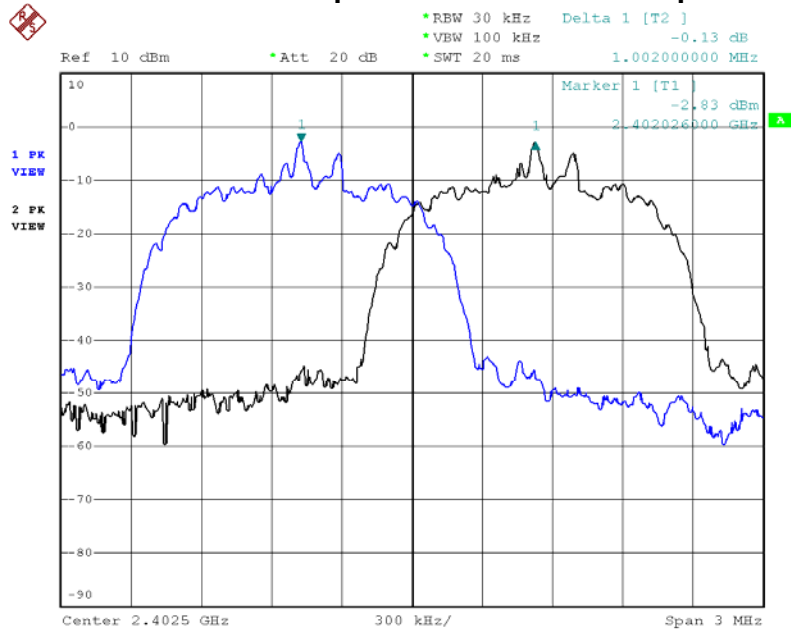
EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz, 2441 MHz, 2480 MHz		

Frequency	Channel Separation (MHz)	20 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Two-thirds of the 20 dB Bandwidth	Result
2402 MHz	1.002	1.257	1.168	0.838	PASS
2441 MHz	1.002	1.265	1.176	0.844	PASS
2480 MHz	1.002	1.250	1.164	0.833	PASS

NOTE: Ch. Separation Limits: >25 KHz or >2/3 of 20dB bandwidth

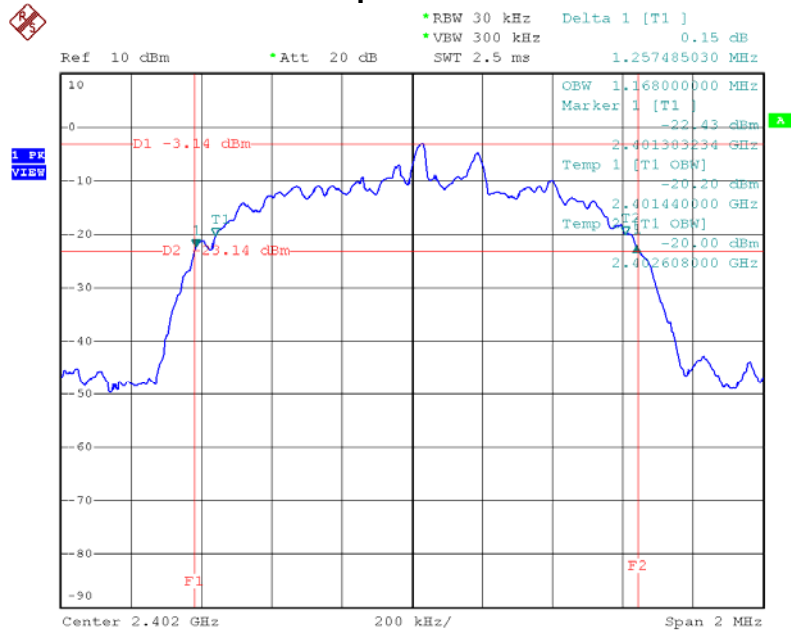


### Bluetooth/3 Mbps/2402 MHz/Channel Separation



Date: 24.APR.2014 14:44:35

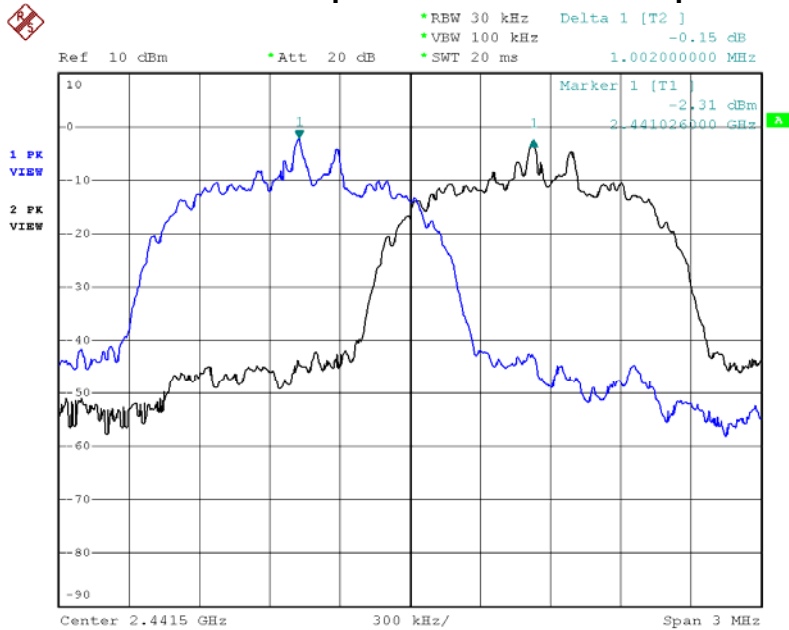
### Bluetooth/3 Mbps/2402 MHz/20dB Bandwidth



Date: 24.APR.2014 14:09:16

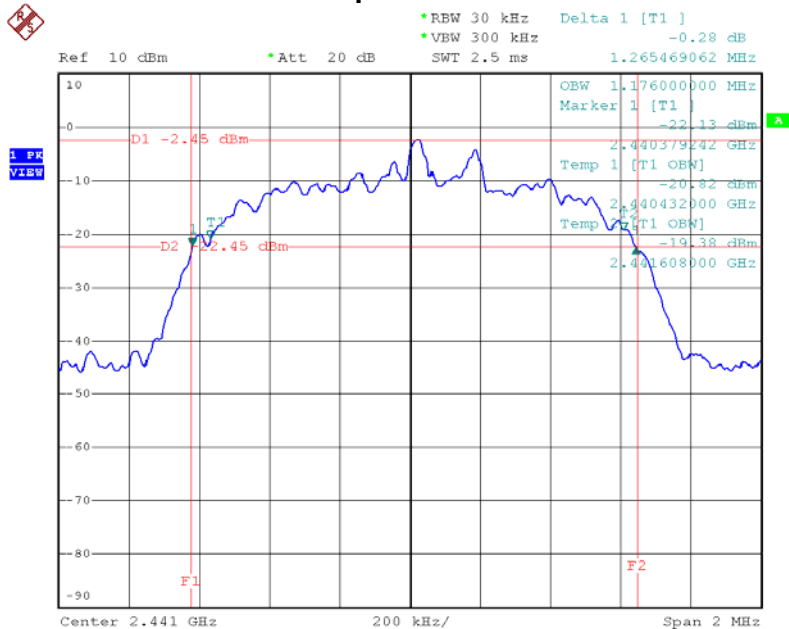


### Bluetooth/3 Mbps/2441 MHz/Channel Separation



Date: 24.APR.2014 14:45:19

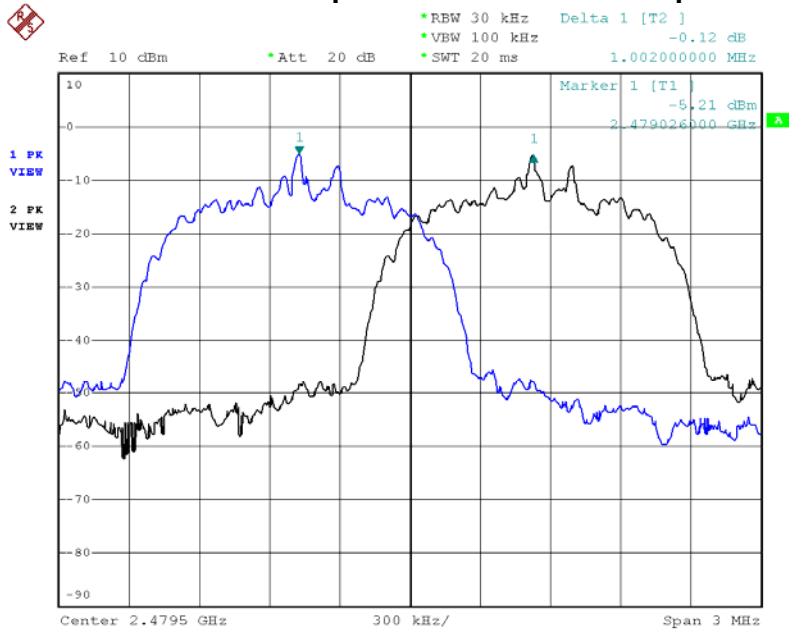
### Bluetooth/3 Mbps/2441 MHz/20dB Bandwidth



Date: 24.APR.2014 14:11:20

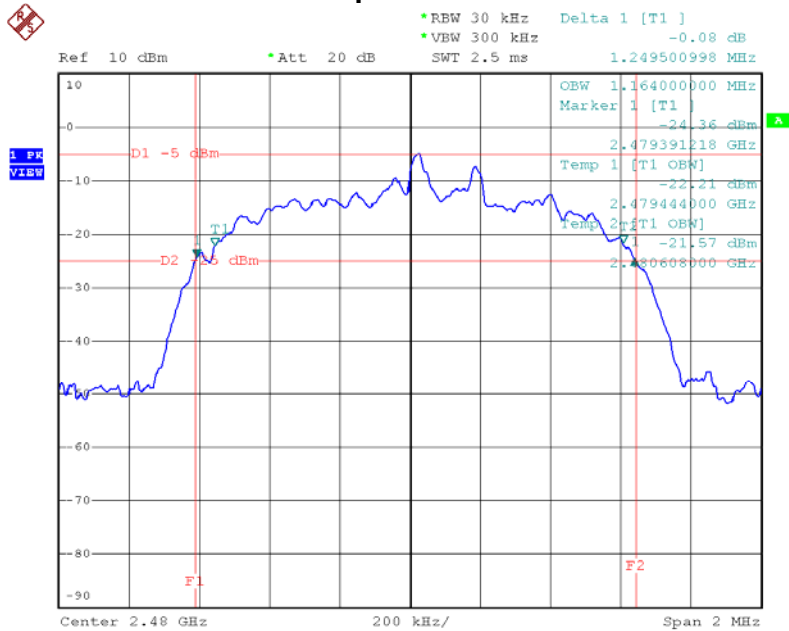


### Bluetooth/3 Mbps/2480 MHz/Channel Separation



Date: 24.APR.2014 14:46:44

### Bluetooth/3 Mbps/2480 MHz/20dB Bandwidth



Date: 24.APR.2014 14:13:23



## 7 MAXIMUM PEAK CONDUCTED OUTPUT POWER

### 7.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Maximum Peak Conducted Output Power	2400-2483.5	1 watt or 30 dBm

### 7.2 MEASUREMENT INSTRUMENTS LIST

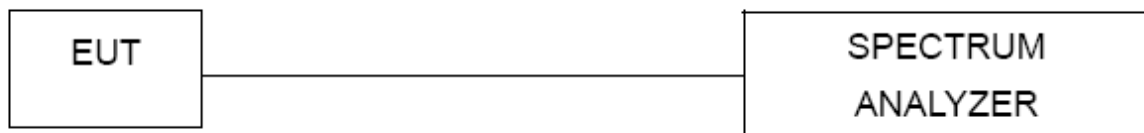
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

### 7.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 3 MHz, VBW= 3 MHz, Sweep time = Auto.

### 7.4 TEST SETUP LAYOUT



### 7.5 DEVIATION FROM TEST STANDARD

No deviation

### 7.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.

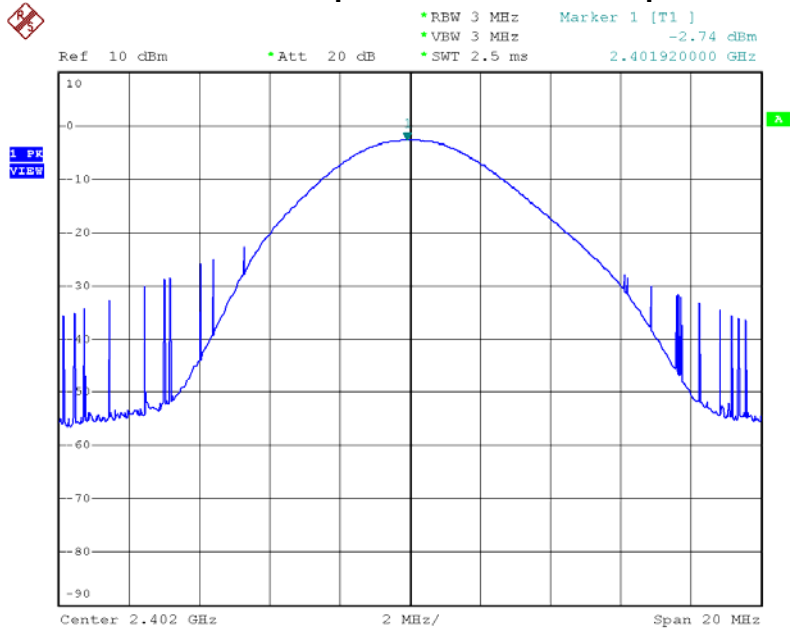


**7.7 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz, 2441 MHz, 2480 MHz		

Frequency	Peak Output Power		Limit		Result
	(dBm)	(W)	(dBm)	(W)	
2402 MHz	-2.74	0.0005	30	1	PASS
2441 MHz	-2.19	0.0006	30	1	PASS
2480 MHz	-5.10	0.0003	30	1	PASS

**Bluetooth/1 Mbps/2402 MHz/Peak Output Power**

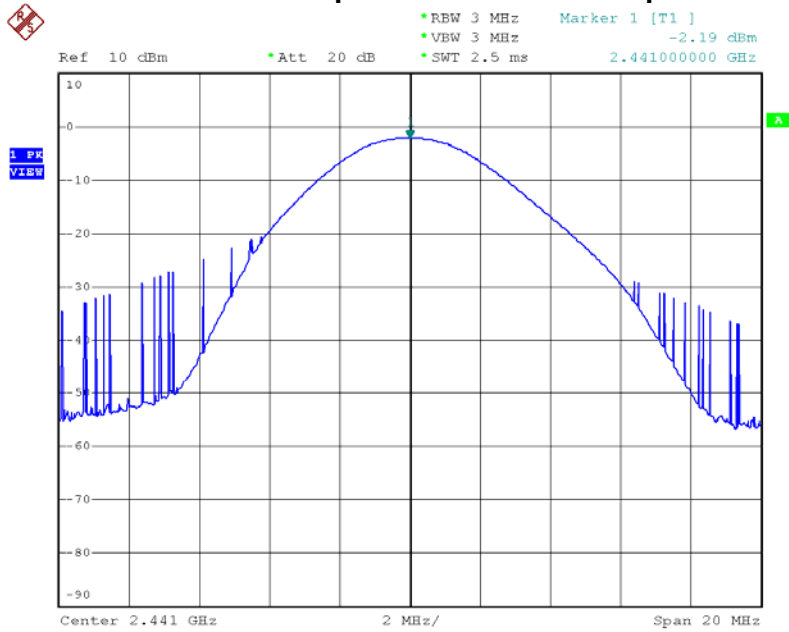


Date: 24.APR.2014 13:31:08



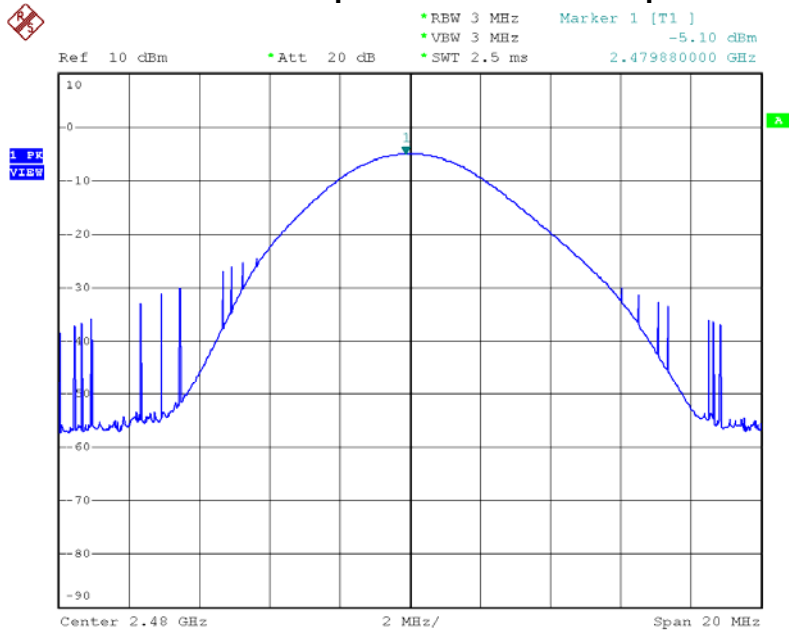


### Bluetooth/1 Mbps/2441 MHz/Peak Output Power



Date: 24.APR.2014 13:34:38

### Bluetooth/1 Mbps/2480 MHz/Peak Output Power



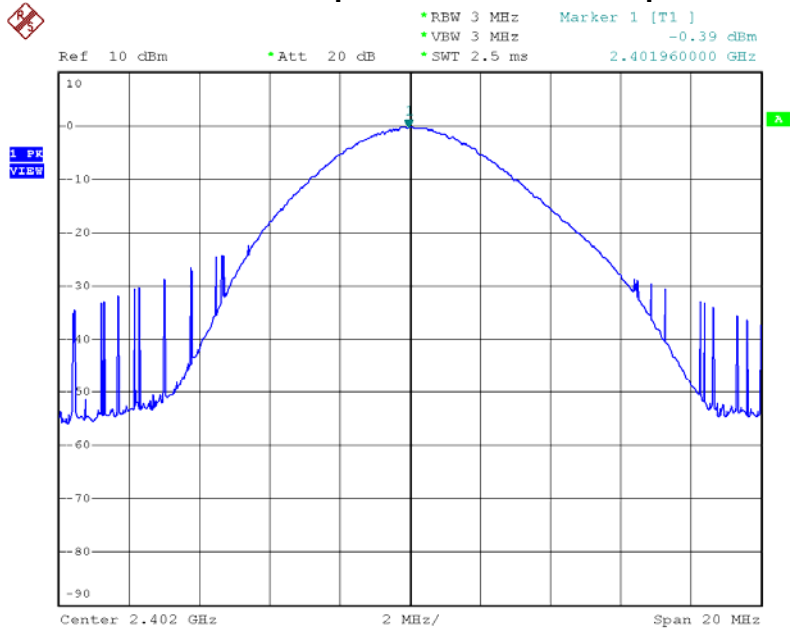
Date: 24.APR.2014 13:37:57



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz, 2441 MHz, 2480 MHz		

Frequency	Peak Output Power		Limit		Result
	(dBm)	(W)	(dBm)	(W)	
2402 MHz	-0.39	0.0009	30	1	PASS
2441 MHz	-0.24	0.0009	30	1	PASS
2480 MHz	-2.76	0.0005	30	1	PASS

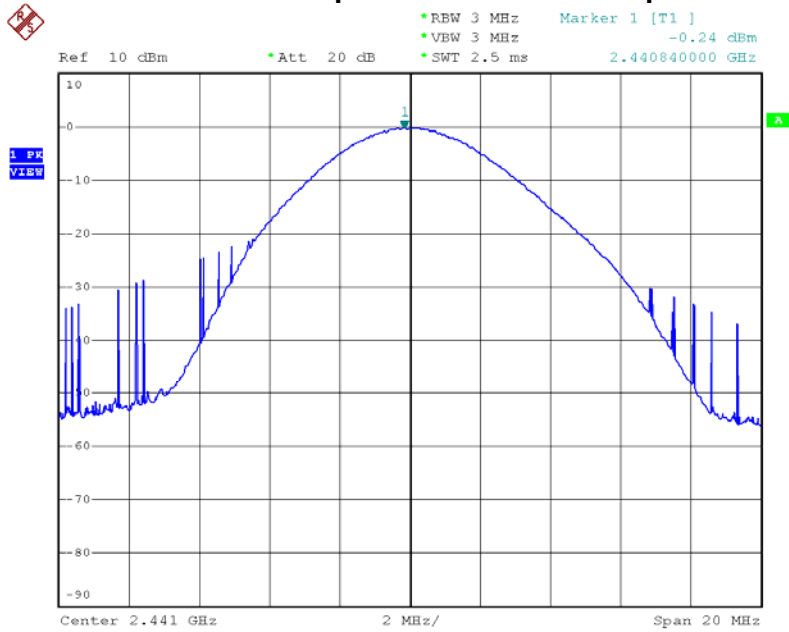
**Bluetooth/3 Mbps/2402 MHz/Peak Output Power**



Date: 24.APR.2014 14:10:17

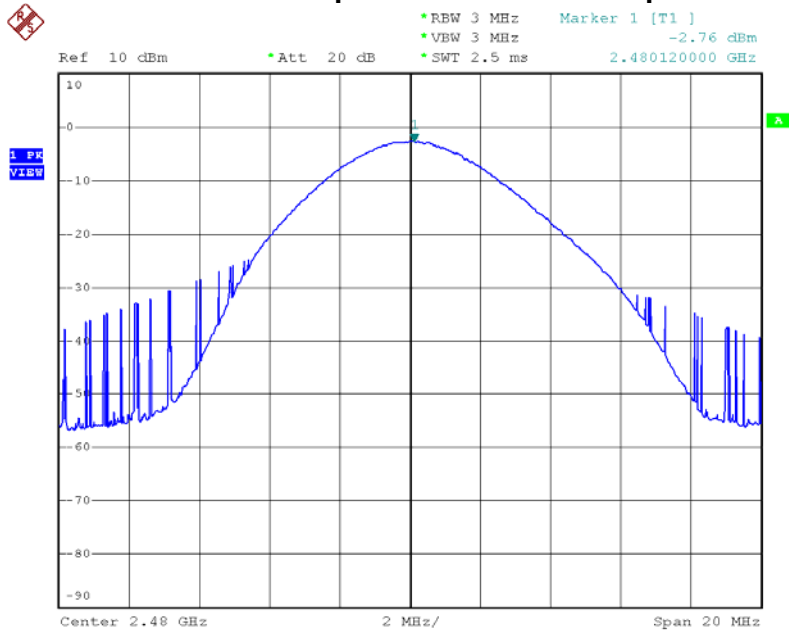


### Bluetooth/3 Mbps/2441 MHz/Peak Output Power



Date: 24.APR.2014 14:12:01

### Bluetooth/3 Mbps/2480 MHz/Peak Output Power



Date: 24.APR.2014 14:17:03



**8 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)**

**8.1 LIMIT**

20 dB in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

**NOTE:**

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)  
 Margin Level = Measurement Value – Limit Value



**8.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 14, 2015
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 15, 2015
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 12, 2015
5	Microflex Cable	EMC	S104-SMA	8m	May. 12, 2015
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 12, 2015
7	Test Cable	LMR	LMR-400	12m	May. 13, 2015
8	Test Cable	LMR	LMR-400	3m	May. 13, 2015
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

**8.3 MEASURING INSTRUMENTS SETTING**

EMI Test Receiver	Parameter Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



### 8.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

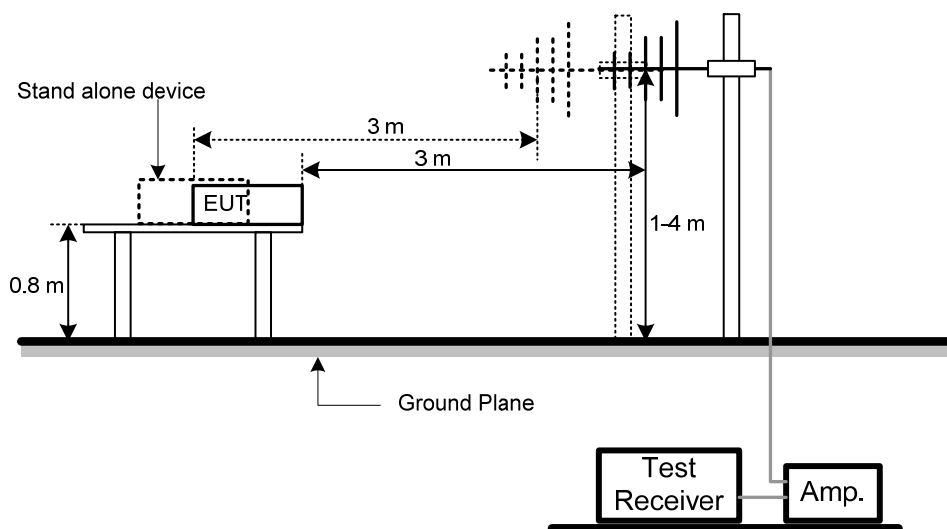
**NOTE:**

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

### 8.5 DEVIATION FROM TEST STANDARD

No deviation

### 8.6 TEST SETUP LAYOUT





## **8.7 EUT OPERATING CONDITIONS**

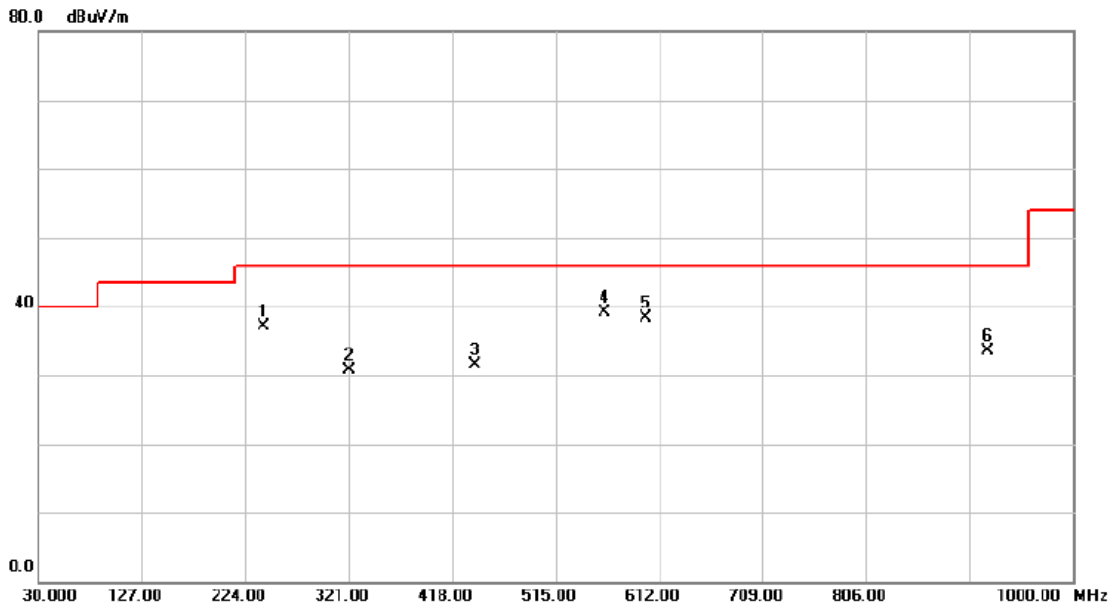
The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**8.8 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Polarization: Vertical**



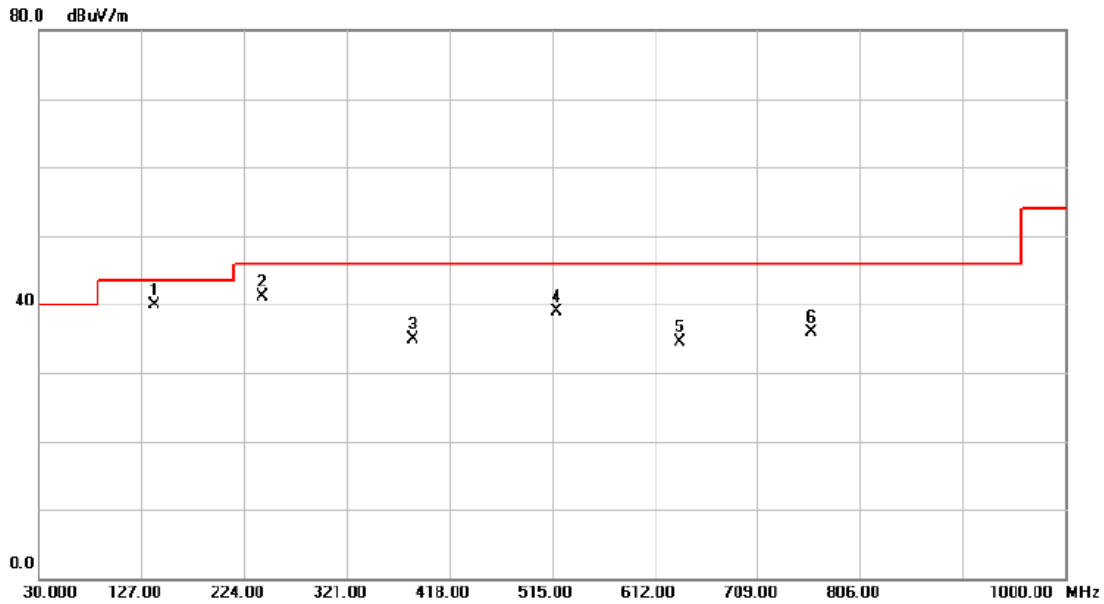
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		240.9750	52.28	-15.09	37.19	46.00	-8.81	peak	
2		321.0000	43.59	-12.80	30.79	46.00	-15.21	peak	
3		439.8250	41.38	-9.82	31.56	46.00	-14.44	peak	
4	*	561.0750	47.15	-8.04	39.11	46.00	-6.89	peak	
5		599.8750	44.81	-6.54	38.27	46.00	-7.73	peak	
6		919.9750	36.54	-3.04	33.50	46.00	-12.50	peak	





EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Polarization: Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	139.1250	54.37	-14.56	39.81	43.50	-3.69	peak	
2		240.9750	56.20	-15.09	41.11	46.00	-4.89	peak	
3		384.0500	46.50	-11.52	34.98	46.00	-11.02	peak	
4		519.8500	47.84	-8.91	38.93	46.00	-7.07	peak	
5		636.2500	41.19	-6.71	34.48	46.00	-11.52	peak	
6		759.9250	40.63	-4.82	35.81	46.00	-10.19	peak	



**9 RADIATED SPURIOUS EMISSION (ABOVE 1 GHz)**

**9.1 LIMIT**

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

**NOTE:**

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)  
 Margin Level = Measurement Value – Limit Value



**9.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 14, 2015
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 15, 2015
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 12, 2015
5	Microflex Cable	EMC	S104-SMA	8m	May. 12, 2015
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 12, 2015
7	Test Cable	LMR	LMR-400	12m	May. 13, 2015
8	Test Cable	LMR	LMR-400	3m	May. 13, 2015
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

**9.3 MEASURING INSTRUMENTS SETTING**

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average



### 9.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

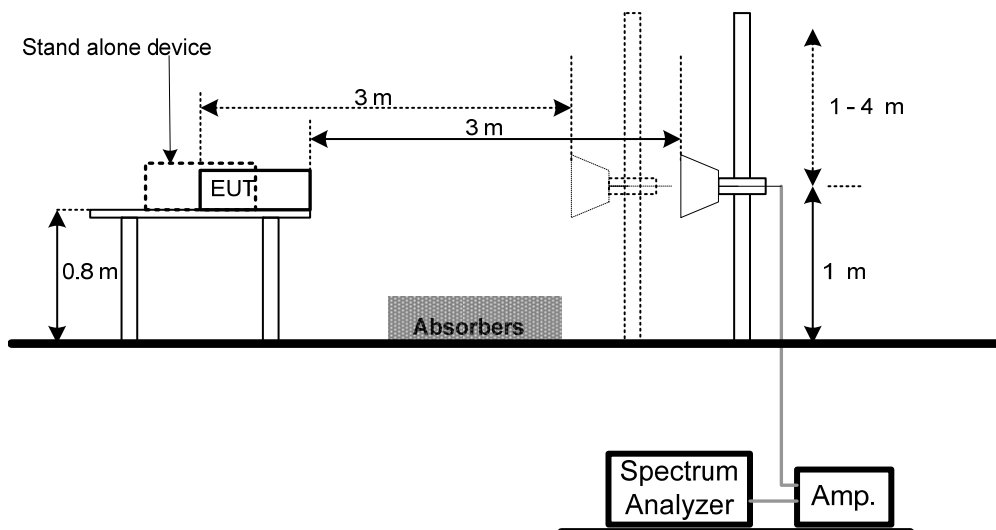
**NOTE:**

- a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.  
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

### 9.5 DEVIATION FROM TEST STANDARD

No deviation

### 9.6 TEST SETUP LAYOUT





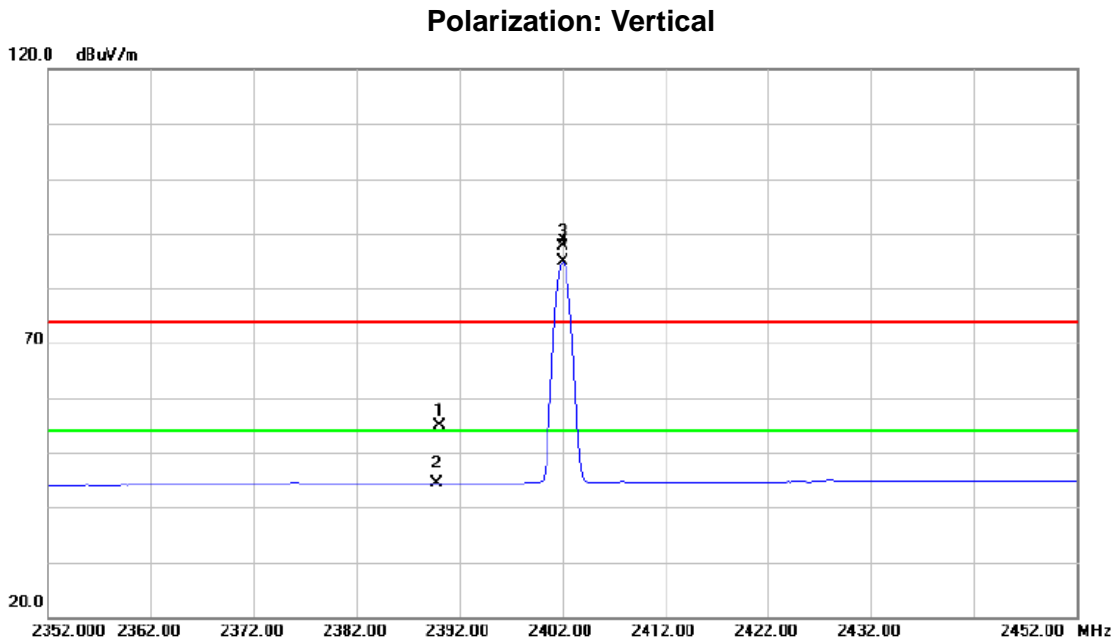
### **9.7 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**9.8 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

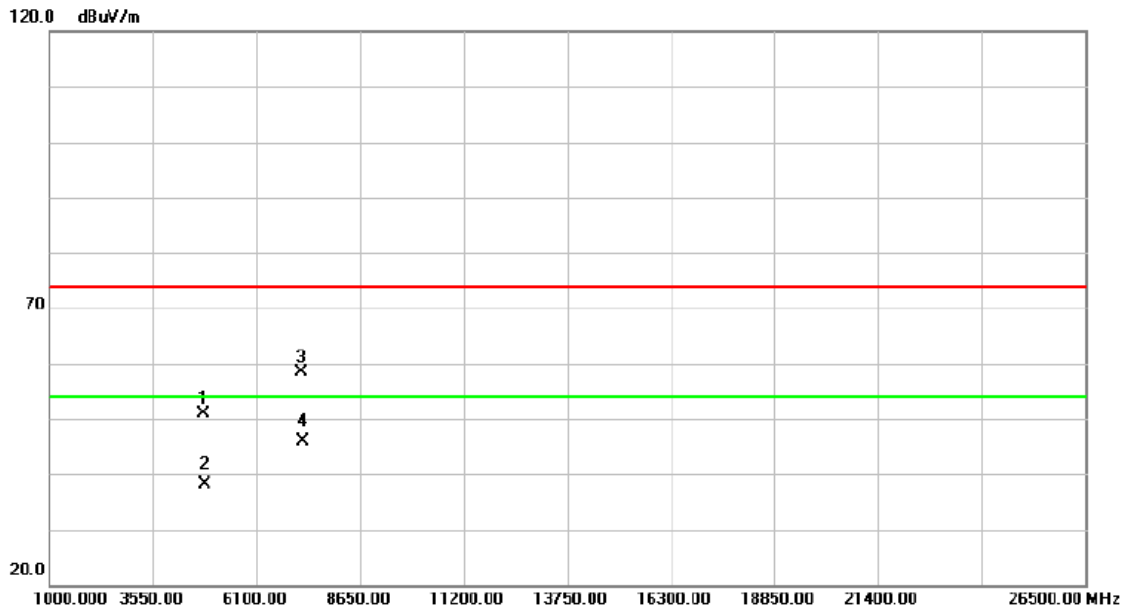


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.47	31.40	54.87	74.00	-19.13	peak	
2		2390.000	12.91	31.40	44.31	54.00	-9.69	AVG	
3	X	2402.000	56.11	31.45	87.56	74.00	13.56	peak	
4	*	2402.000	53.38	31.45	84.83	54.00	30.83	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

**Polarization: Vertical**

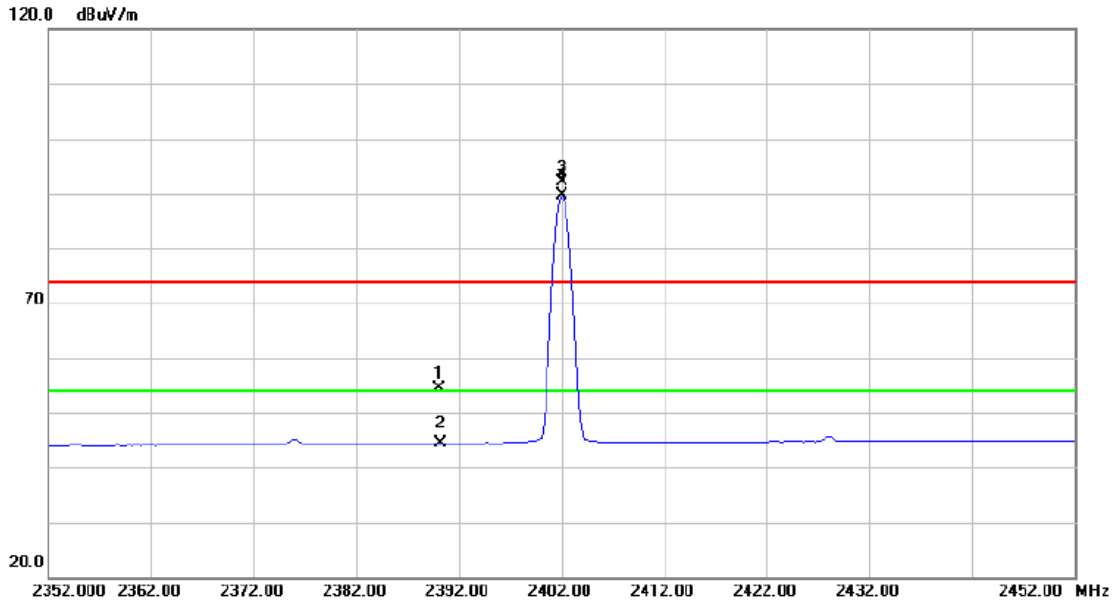


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.705	43.47	7.40	50.87	74.00	-23.13	peak	
2		4803.705	30.70	7.40	38.10	54.00	-15.90	AVG	
3		7206.180	43.92	14.39	58.31	74.00	-15.69	peak	
4	*	7206.180	31.54	14.39	45.93	54.00	-8.07	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

**Polarization: Horizontal**



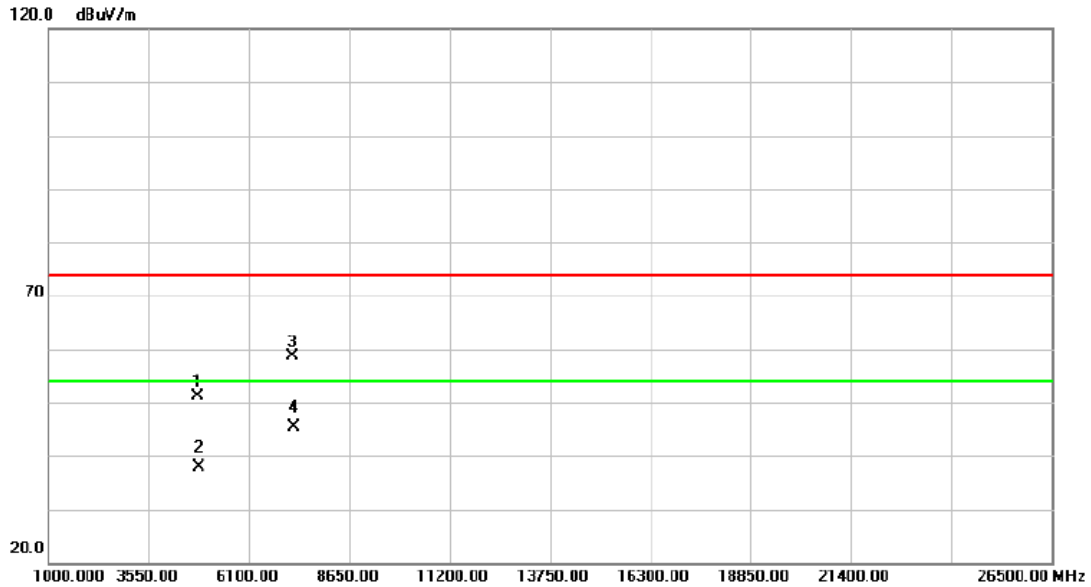
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	22.96	31.40	54.36	74.00	-19.64	peak	
2		2390.000	12.95	31.40	44.35	54.00	-9.65	AVG	
3	X	2402.000	60.76	31.45	92.21	74.00	18.21	peak	
4	*	2402.000	58.10	31.45	89.55	54.00	35.55	AVG	





EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

**Polarization: Horizontal**

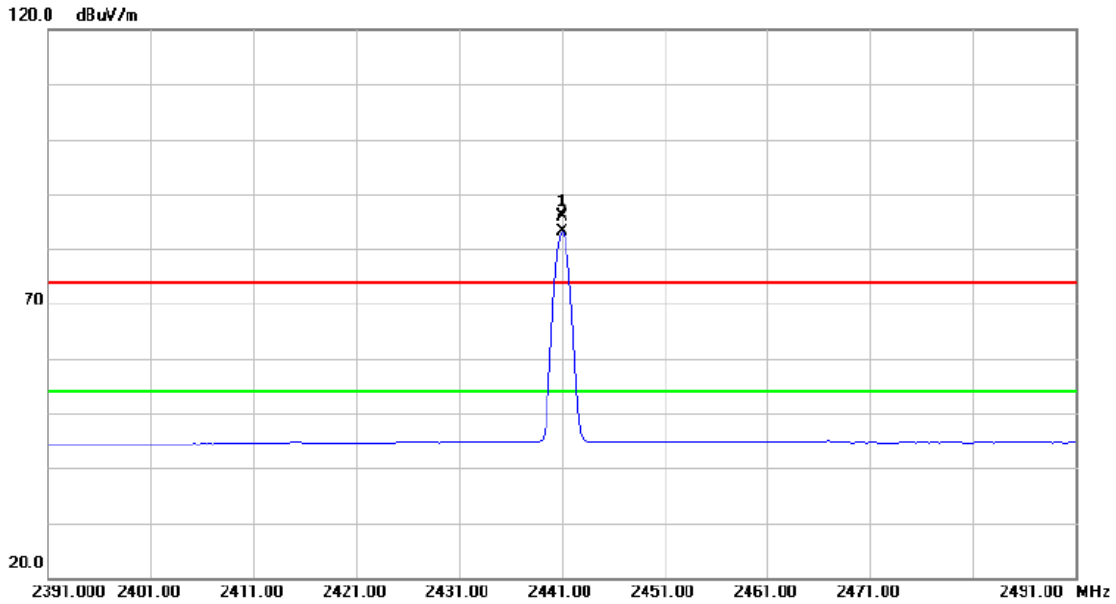


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.355	43.69	7.40	51.09	74.00	-22.91	peak	
2		4803.355	30.44	7.40	37.84	54.00	-16.16	AVG	
3		7206.010	44.36	14.39	58.75	74.00	-15.25	peak	
4	*	7206.010	31.03	14.39	45.42	54.00	-8.58	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Polarization: Vertical**

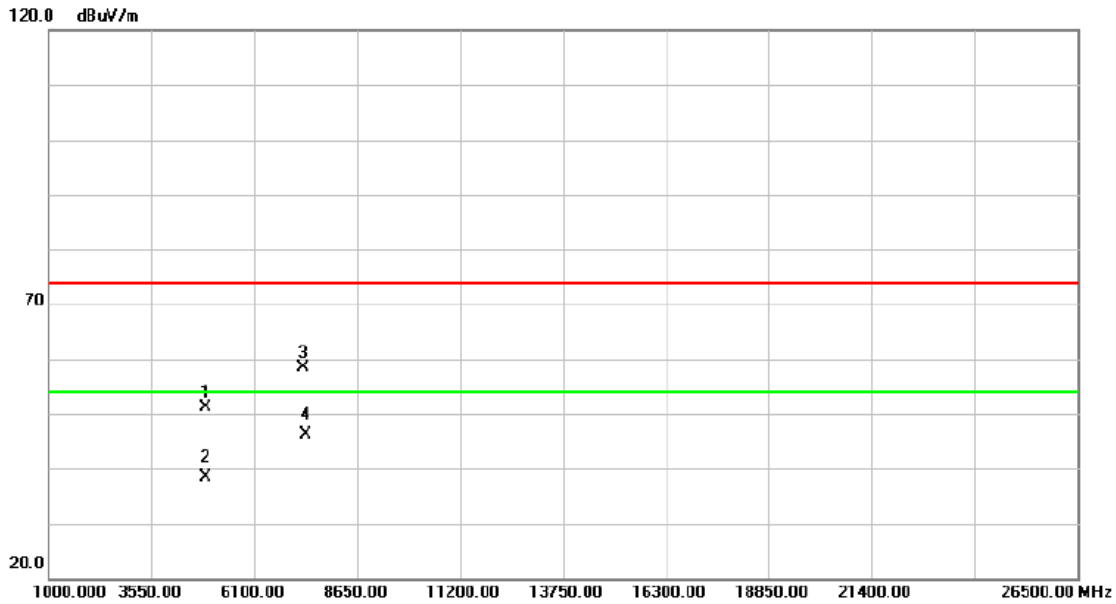


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.000	54.25	31.61	85.86	74.00	11.86	peak	
2	*	2441.000	51.43	31.61	83.04	54.00	29.04	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Polarization: Vertical**

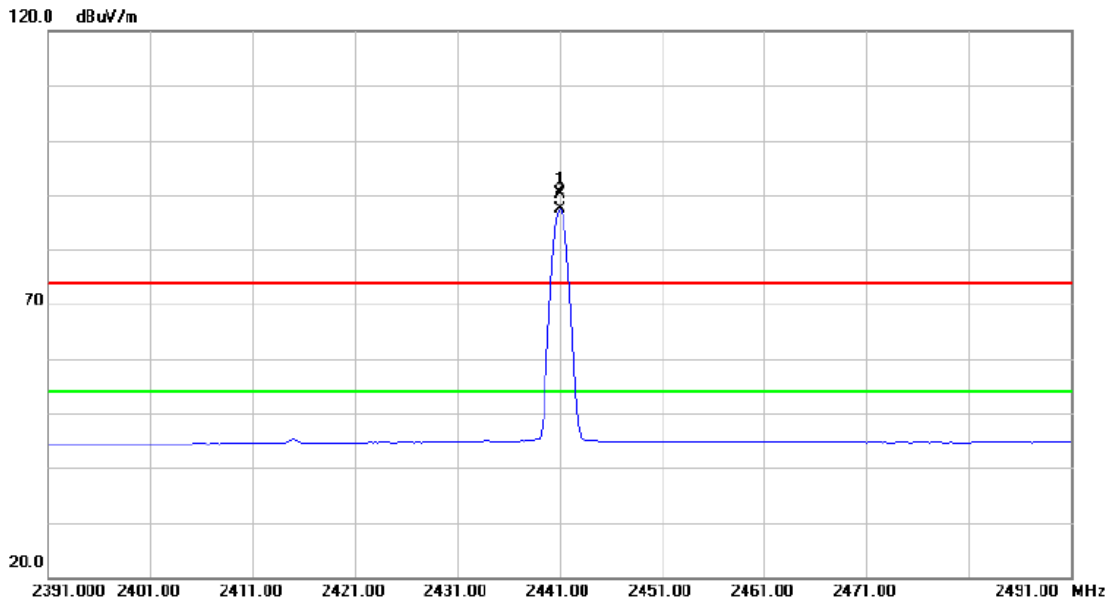


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4881.800	43.42	7.66	51.08	74.00	-22.92	peak	
2		4881.800	30.66	7.66	38.32	54.00	-15.68	AVG	
3		7323.025	43.51	14.85	58.36	74.00	-15.64	peak	
4	*	7323.025	31.33	14.85	46.18	54.00	-7.82	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Polarization: Horizontal**

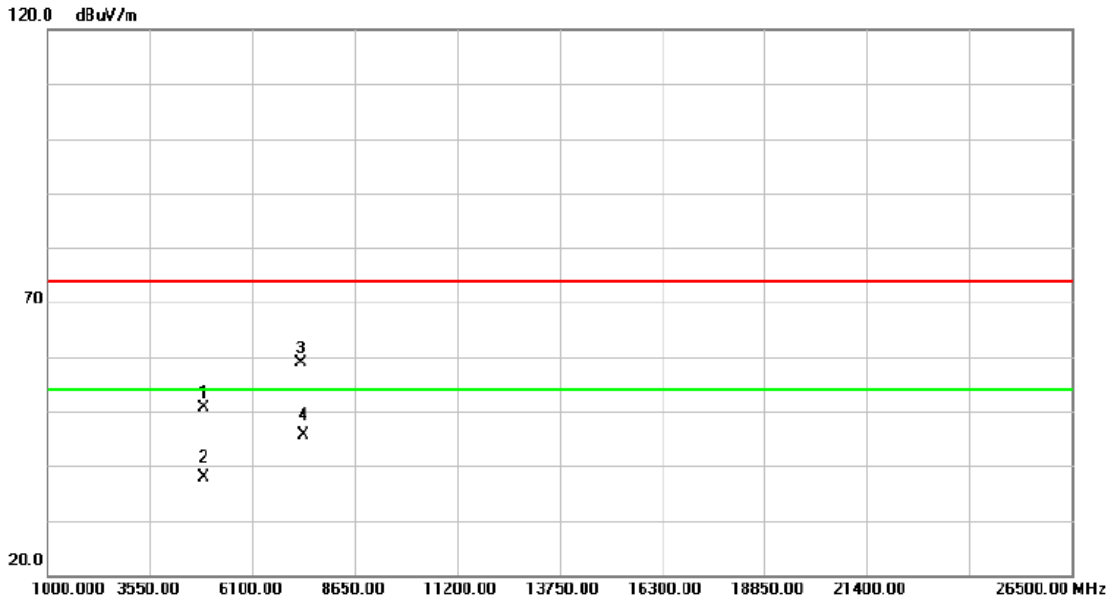


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.000	58.41	31.61	90.02	74.00	16.02	peak	
2	*	2441.000	55.76	31.61	87.37	54.00	33.37	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

**Polarization: Horizontal**

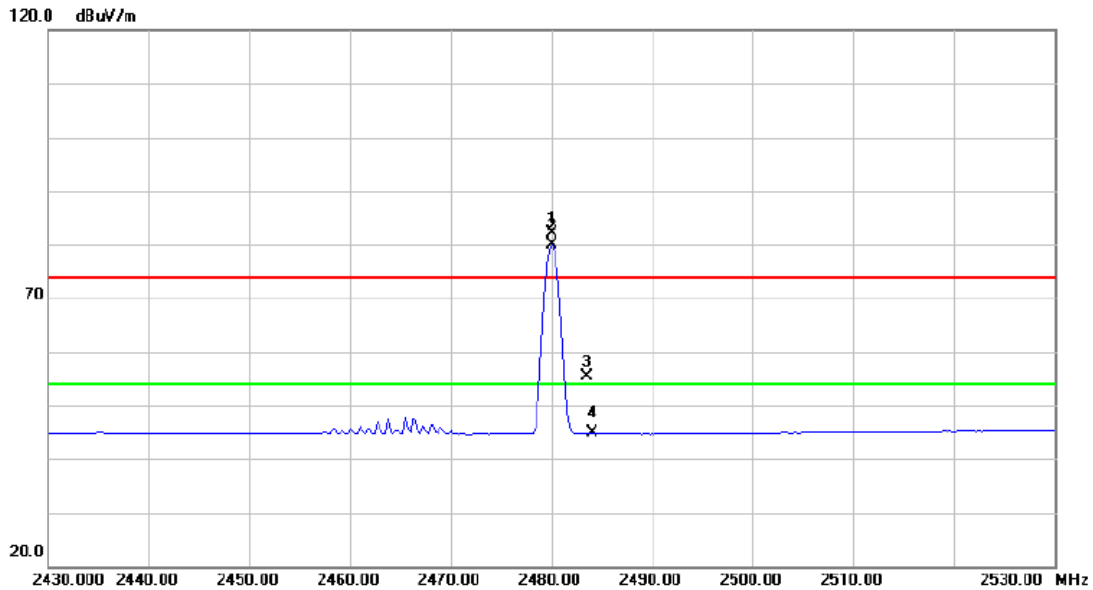


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4882.025	42.86	7.66	50.52	74.00	-23.48	peak	
2		4882.025	30.31	7.66	37.97	54.00	-16.03	AVG	
3		7322.970	43.96	14.85	58.81	74.00	-15.19	peak	
4	*	7322.970	30.74	14.85	45.59	54.00	-8.41	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		

**Polarization: Vertical**

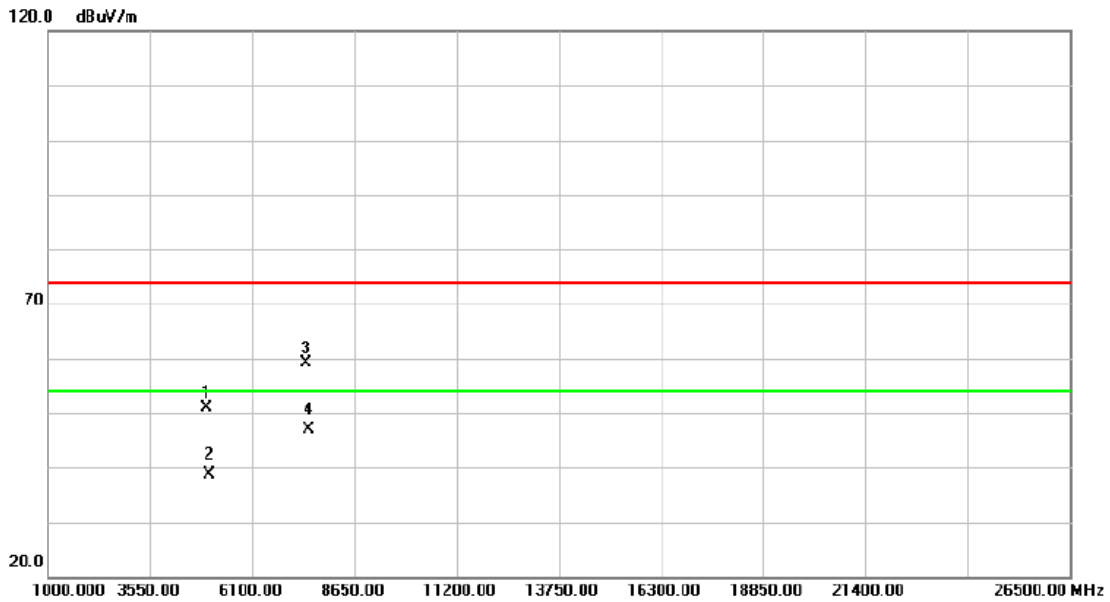


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.000	50.41	31.77	82.18	74.00	8.18	peak	
2	*	2480.000	48.00	31.77	79.77	54.00	25.77	AVG	
3		2483.500	23.67	31.79	55.46	74.00	-18.54	peak	
4		2483.500	13.01	31.79	44.80	54.00	-9.20	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		

**Polarization: Vertical**

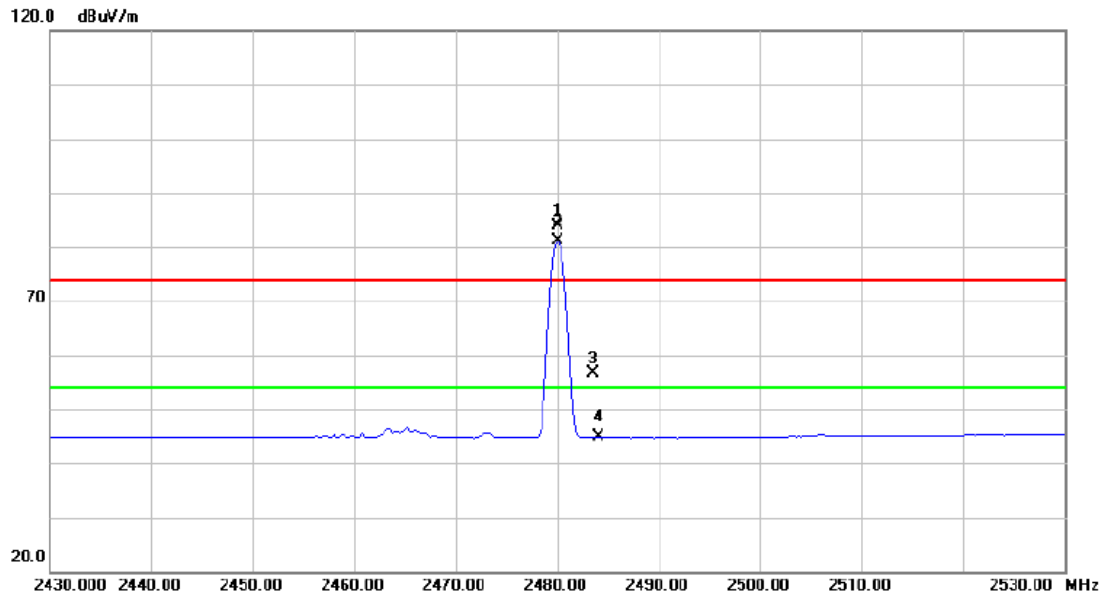


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4960.145	43.00	7.93	50.93	74.00	-23.07	peak	
2		4960.145	30.58	7.93	38.51	54.00	-15.49	AVG	
3		7440.265	43.85	15.31	59.16	74.00	-14.84	peak	
4	*	7440.265	31.57	15.31	46.88	54.00	-7.12	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		

**Polarization: Horizontal**



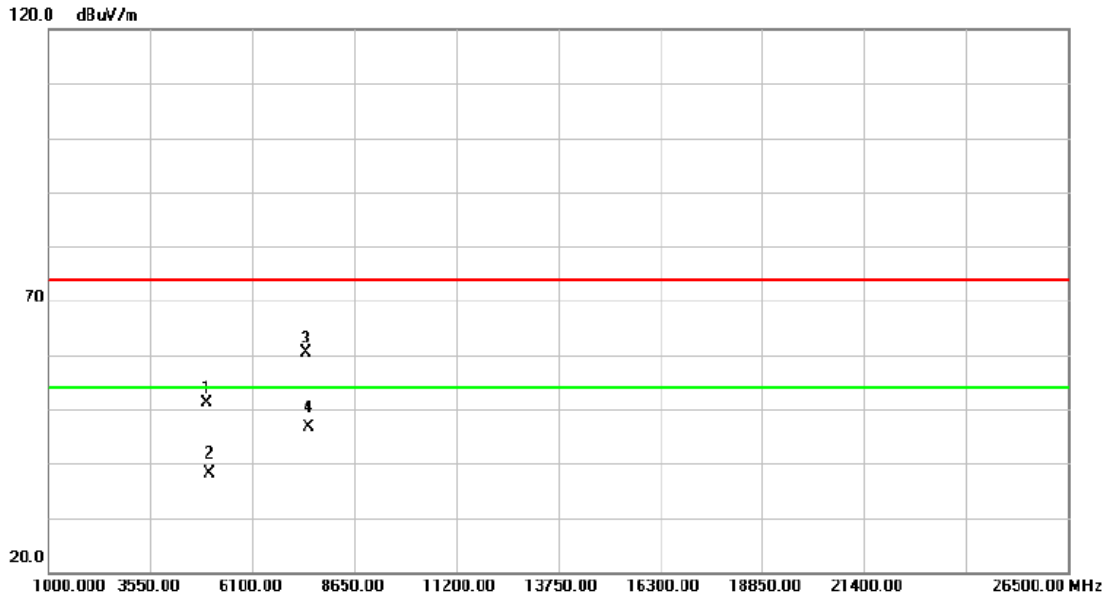
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.000	52.02	31.77	83.79	74.00	9.79	peak	
2	*	2480.000	49.25	31.77	81.02	54.00	27.02	AVG	
3		2483.500	24.93	31.79	56.72	74.00	-17.28	peak	
4		2483.500	13.01	31.79	44.80	54.00	-9.20	AVG	





EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		

**Polarization: Horizontal**

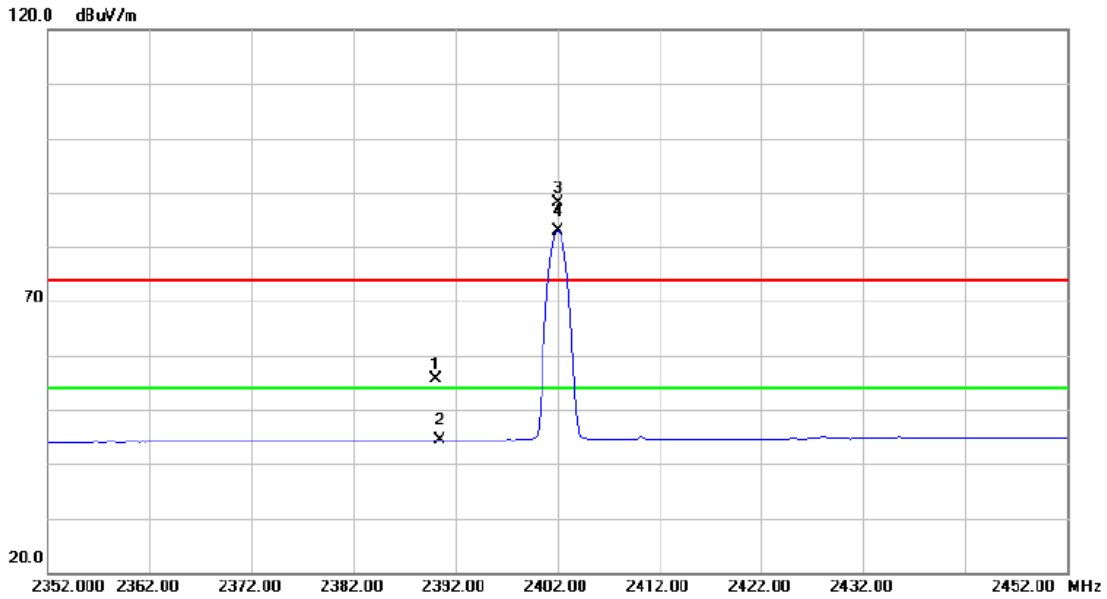


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4960.675	43.10	7.93	51.03	74.00	-22.97	peak	
2	4960.675	30.17	7.93	38.10	54.00	-15.90	AVG	
3	7439.985	44.97	15.31	60.28	74.00	-13.72	peak	
4 *	7439.985	31.35	15.31	46.66	54.00	-7.34	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		

**Polarization: Vertical**

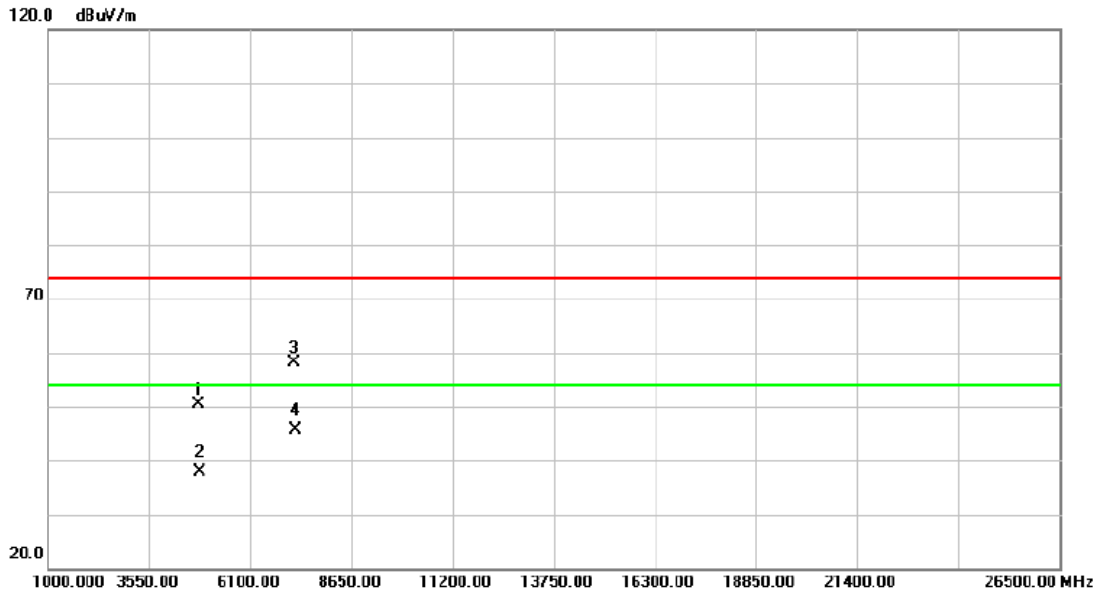


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.24	31.40	55.64	74.00	-18.36	peak	
2		2390.000	12.94	31.40	44.34	54.00	-9.66	AVG	
3	X	2402.000	56.72	31.45	88.17	74.00	14.17	peak	
4	*	2402.000	51.52	31.45	82.97	54.00	28.97	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		

**Polarization: Vertical**

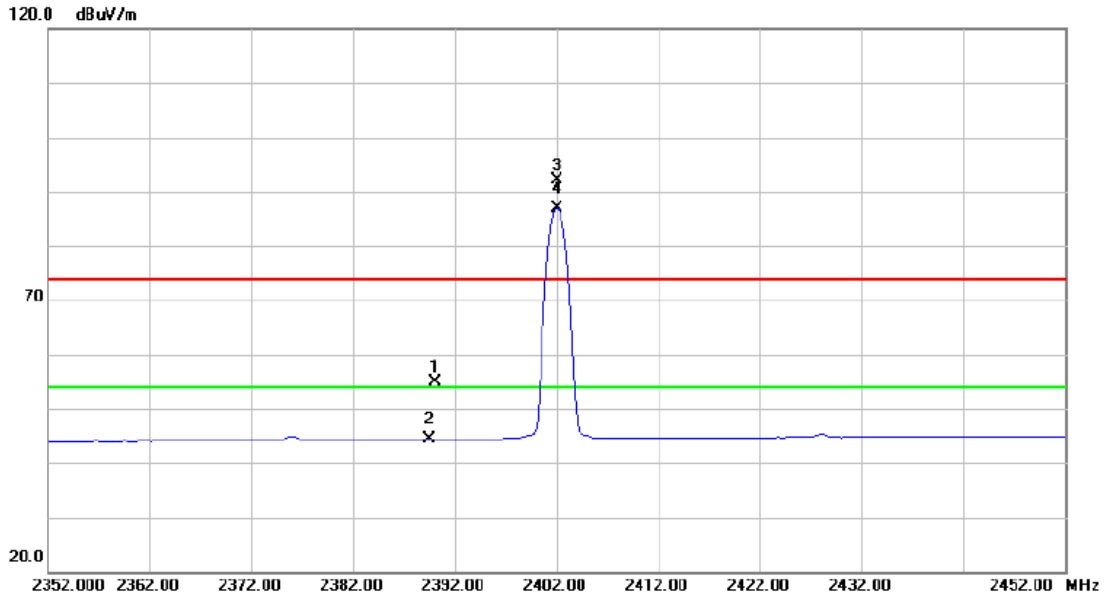


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4803.720	43.07	7.40	50.47	74.00	-23.53	peak	
2	4803.720	30.44	7.40	37.84	54.00	-16.16	AVG	
3	7206.180	43.62	14.39	58.01	74.00	-15.99	peak	
4 *	7206.180	31.28	14.39	45.67	54.00	-8.33	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		

**Polarization: Horizontal**

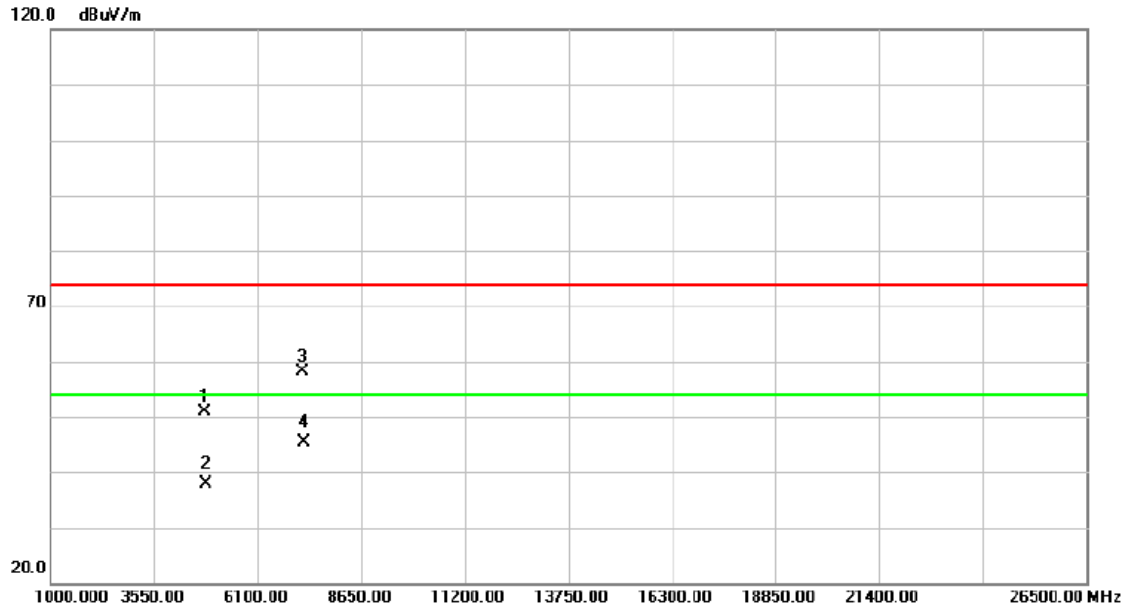


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.46	31.40	54.86	74.00	-19.14	peak	
2		2390.000	12.93	31.40	44.33	54.00	-9.67	AVG	
3	X	2402.000	60.79	31.45	92.24	74.00	18.24	peak	
4	*	2402.000	55.54	31.45	86.99	54.00	32.99	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		

**Polarization: Horizontal**

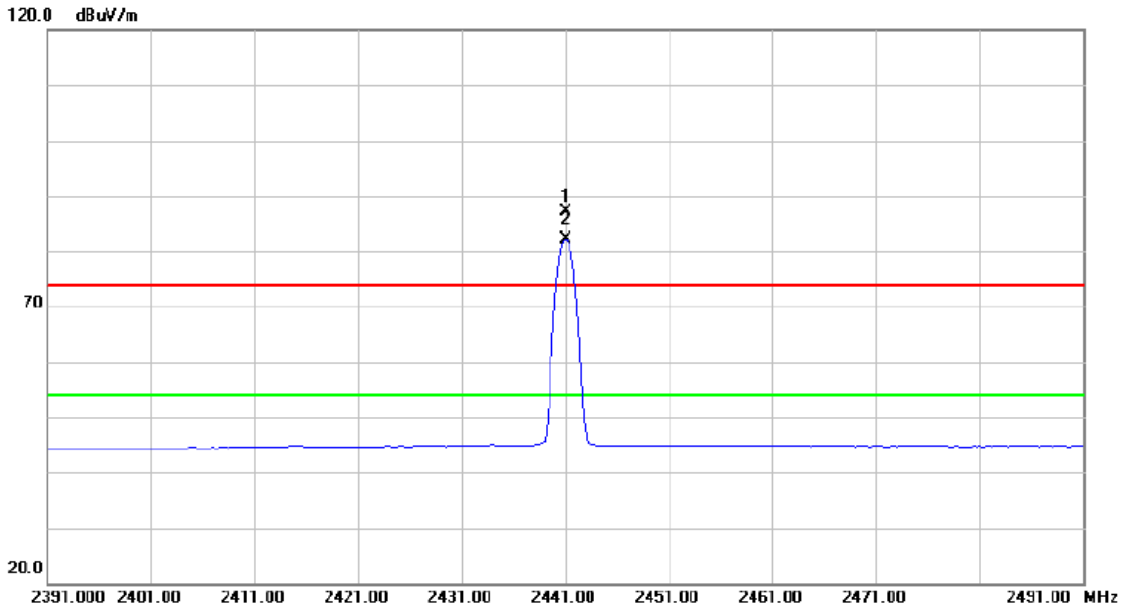


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.925	43.60	7.40	51.00	74.00	-23.00	peak	
2		4803.925	30.36	7.40	37.76	54.00	-16.24	AVG	
3		7206.275	43.79	14.39	58.18	74.00	-15.82	peak	
4	*	7206.275	30.91	14.39	45.30	54.00	-8.70	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

**Polarization: Vertical**

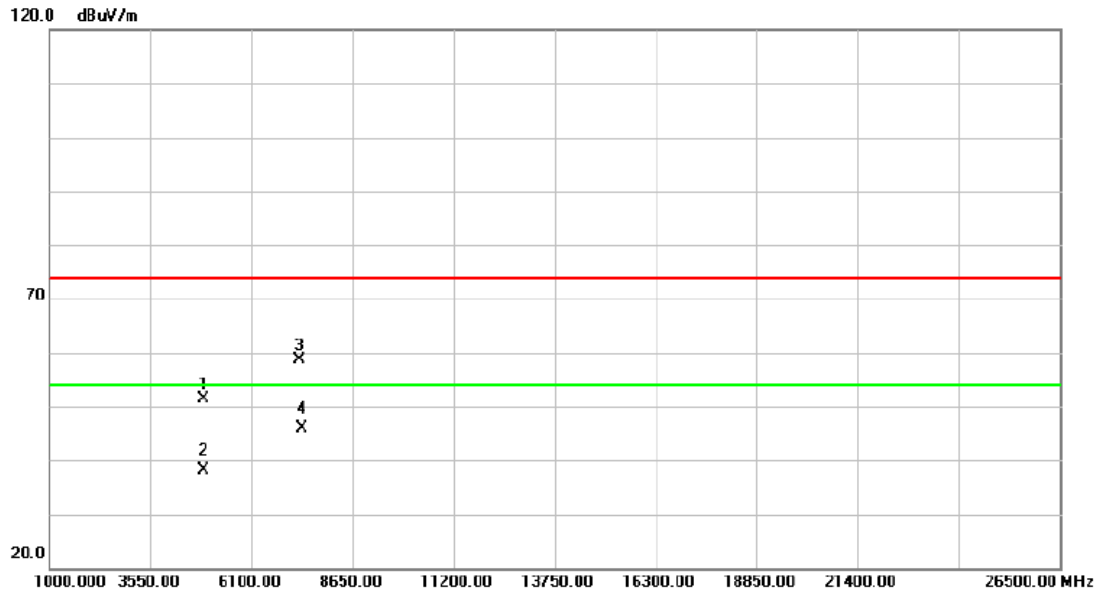


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.000	55.50	31.61	87.11	74.00	13.11	peak	
2	*	2441.000	50.62	31.61	82.23	54.00	28.23	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

**Polarization: Vertical**

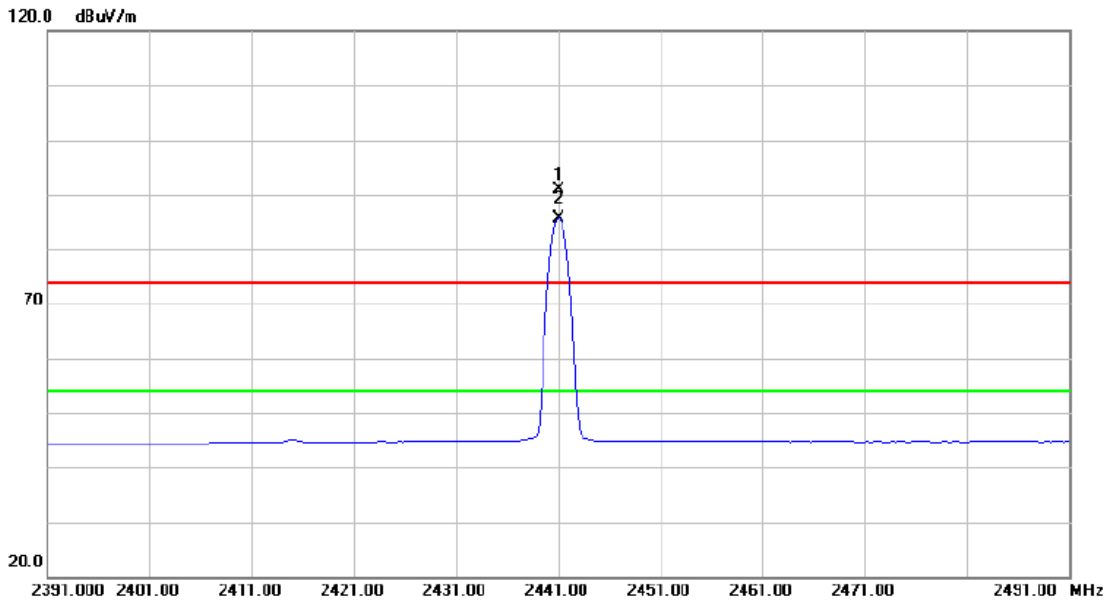


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4881.390	43.71	7.66	51.37	74.00	-22.63	peak	
2		4881.390	30.46	7.66	38.12	54.00	-15.88	AVG	
3		7323.085	43.85	14.85	58.70	74.00	-15.30	peak	
4	*	7323.085	30.91	14.85	45.76	54.00	-8.24	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

**Polarization: Horizontal**



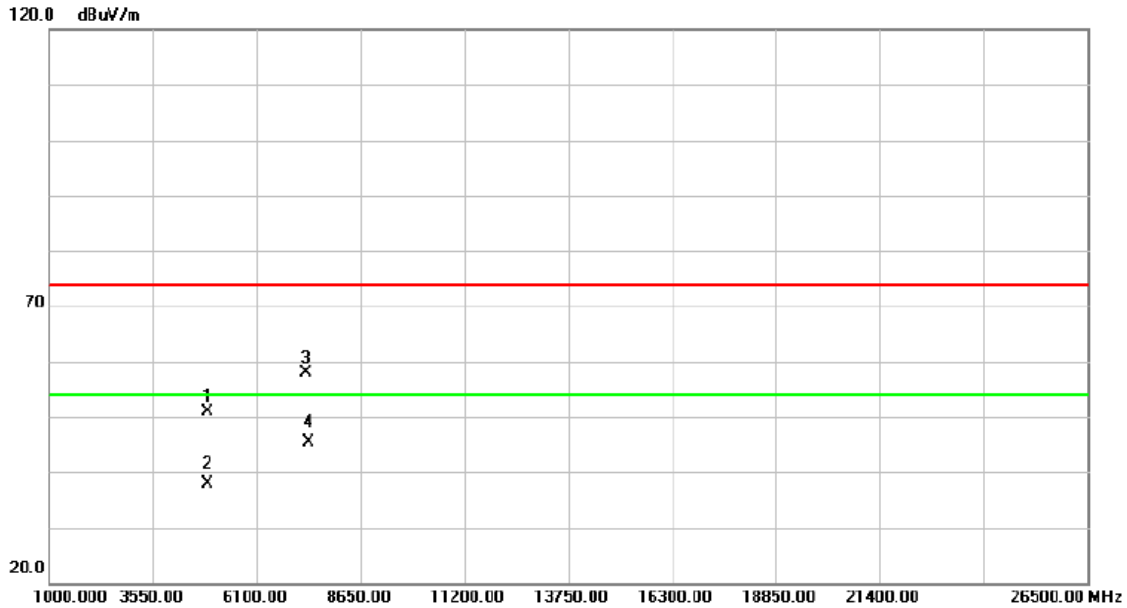
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.000	59.15	31.61	90.76	74.00	16.76	peak	
2	*	2441.000	54.14	31.61	85.75	54.00	31.75	AVG	





EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

**Polarization: Horizontal**

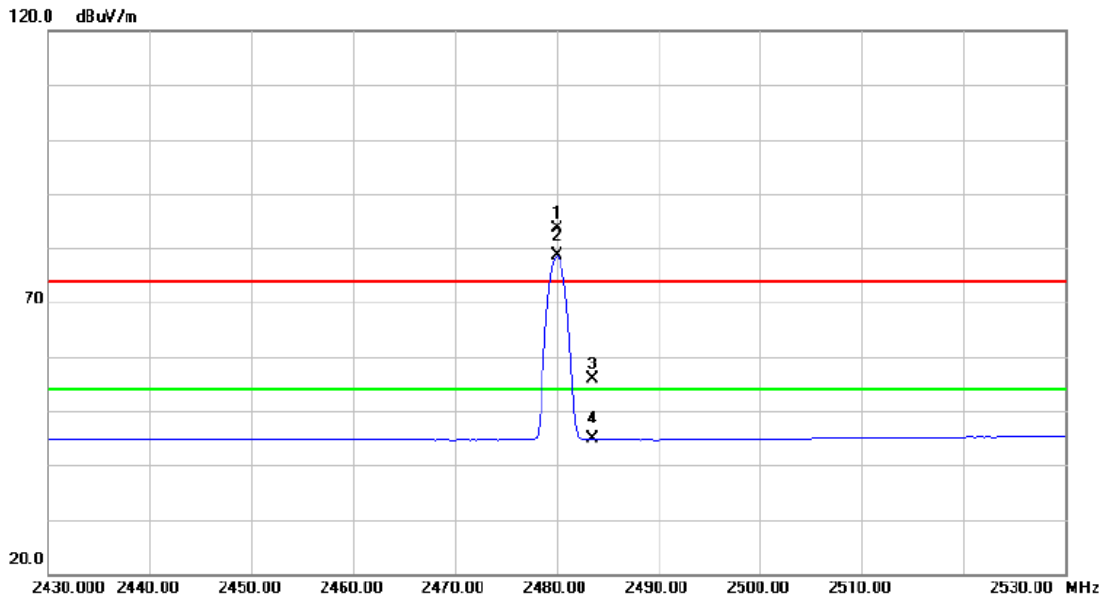


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4881.945	43.32	7.66	50.98	74.00	-23.02	peak	
2		4881.945	30.18	7.66	37.84	54.00	-16.16	AVG	
3		7323.210	43.04	14.85	57.89	74.00	-16.11	peak	
4	*	7323.210	30.57	14.85	45.42	54.00	-8.58	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		

**Polarization: Vertical**

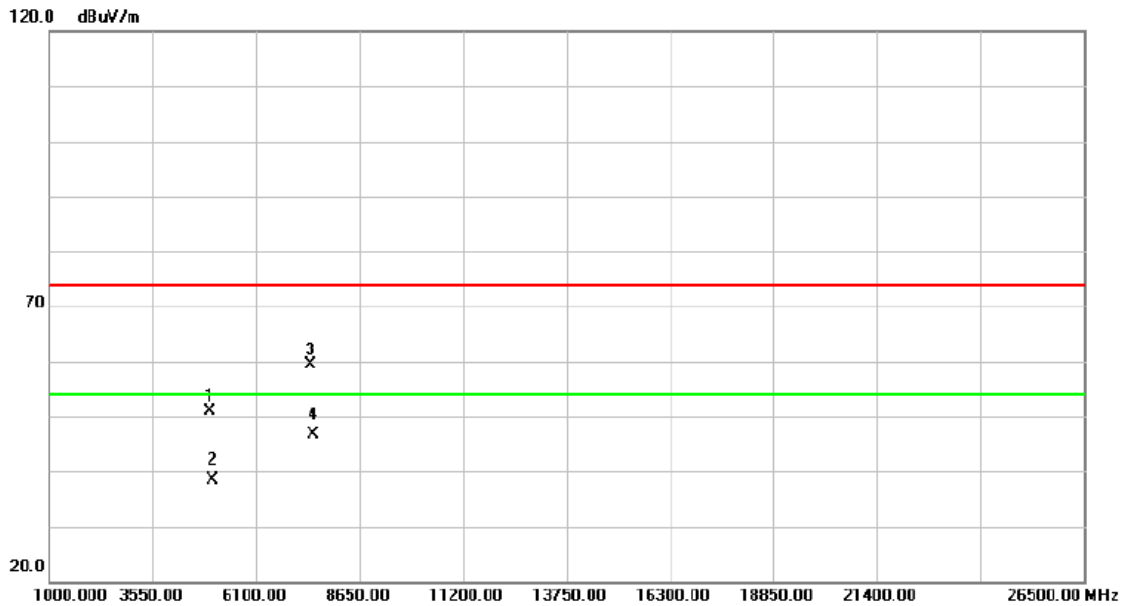


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.000	51.86	31.77	83.63	74.00	9.63	peak	
2	*	2480.000	46.78	31.77	78.55	54.00	24.55	AVG	
3		2483.500	24.01	31.79	55.80	74.00	-18.20	peak	
4		2483.500	13.05	31.79	44.84	54.00	-9.16	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		

**Polarization: Vertical**

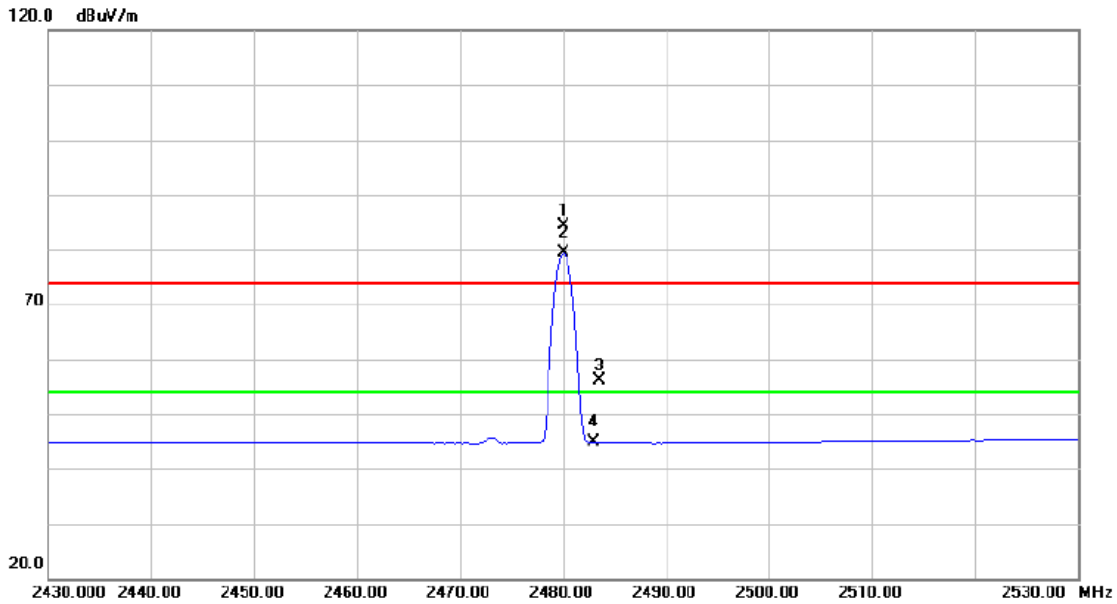


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4959.980	42.96	7.93	50.89	74.00	-23.11	peak	
2	4959.980	30.39	7.93	38.32	54.00	-15.68	AVG	
3	7440.085	44.02	15.31	59.33	74.00	-14.67	peak	
4 *	7440.085	31.38	15.31	46.69	54.00	-7.31	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		

**Polarization: Horizontal**

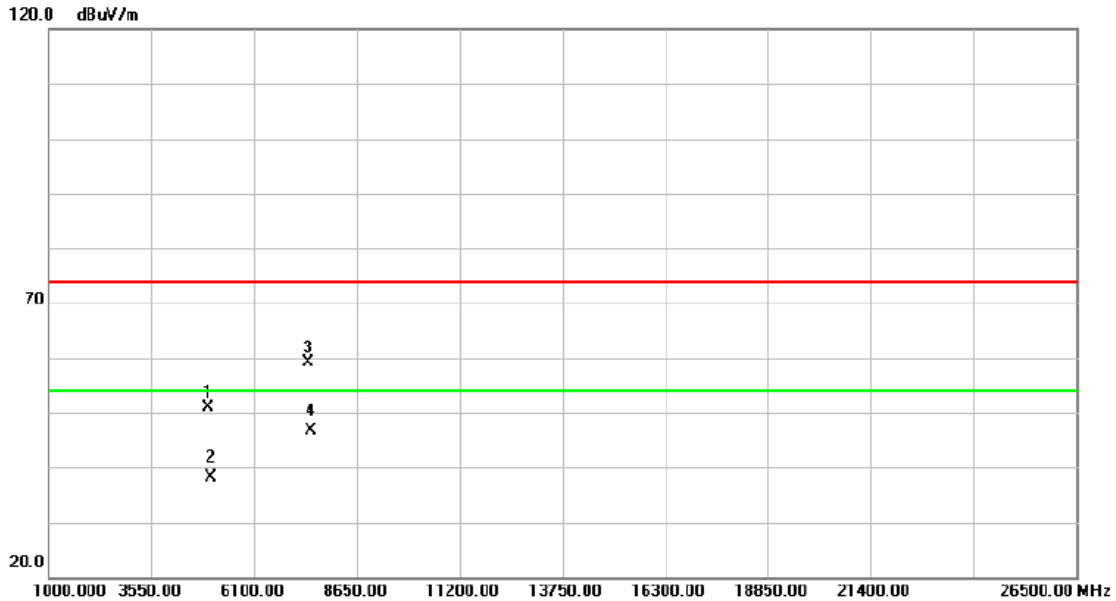


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2480.000	52.52	31.77	84.29	74.00	10.29	peak	
2	*	2480.000	47.56	31.77	79.33	54.00	25.33	AVG	
3		2483.500	24.45	31.79	56.24	74.00	-17.76	peak	
4		2483.500	13.07	31.79	44.86	54.00	-9.14	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		

**Polarization: Horizontal**



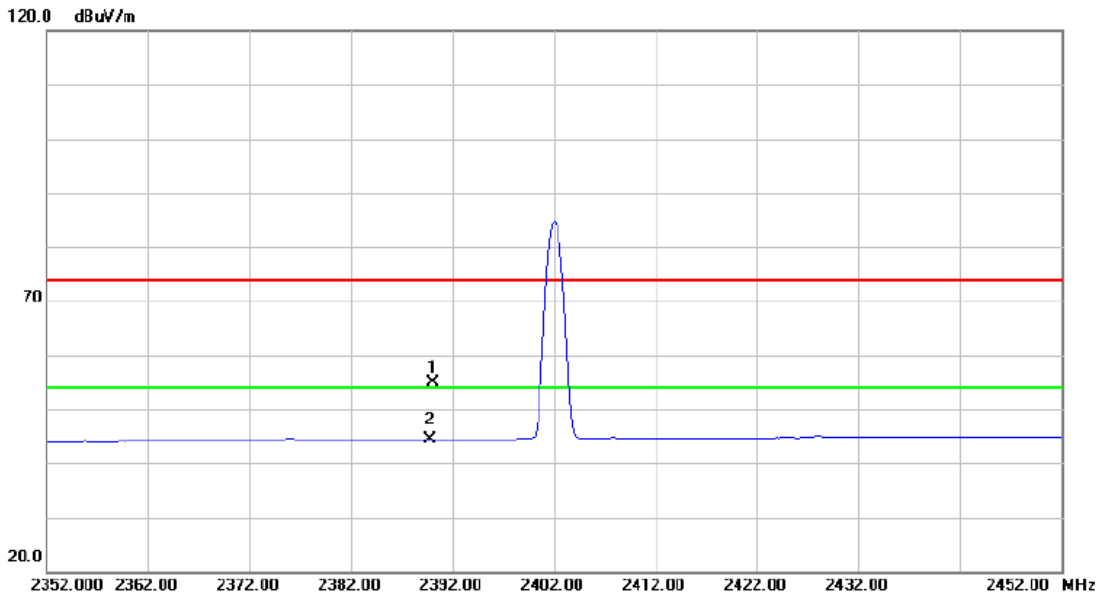
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4960.325	43.05	7.93	50.98	74.00	-23.02	peak	
2		4960.325	30.11	7.93	38.04	54.00	-15.96	AVG	
3		7440.160	43.94	15.31	59.25	74.00	-14.75	peak	
4	*	7440.160	31.33	15.31	46.64	54.00	-7.36	AVG	



**9.9 TEST RESULTS (RESTRICTED BANDS)**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

**Polarization: Vertical**

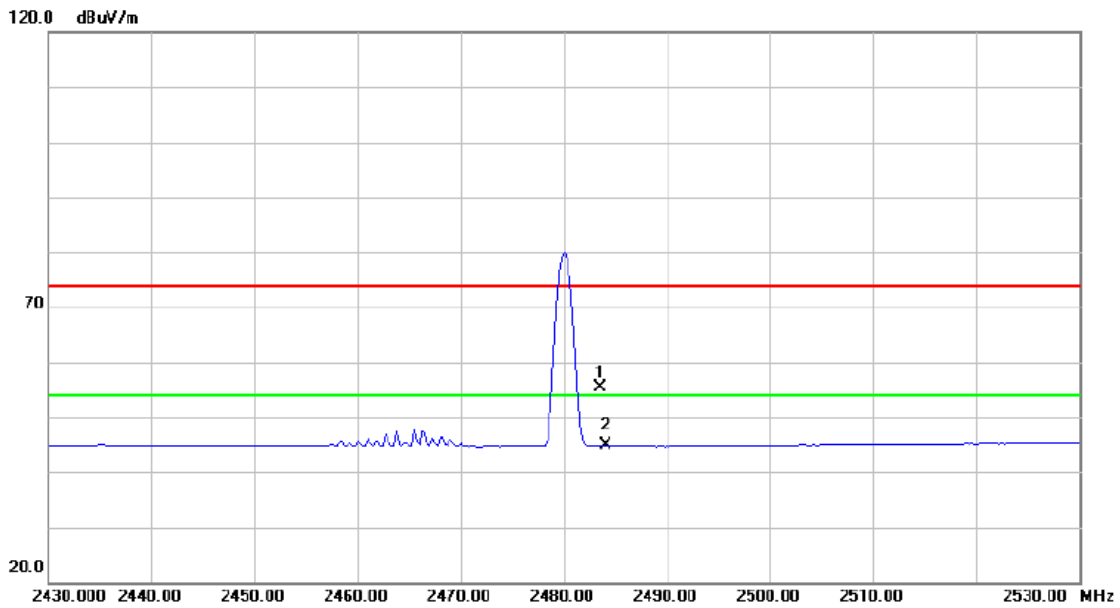


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.47	31.40	54.87	74.00	-19.13	peak	
2	*	2390.000	12.91	31.40	44.31	54.00	-9.69	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

**Polarization: Vertical**

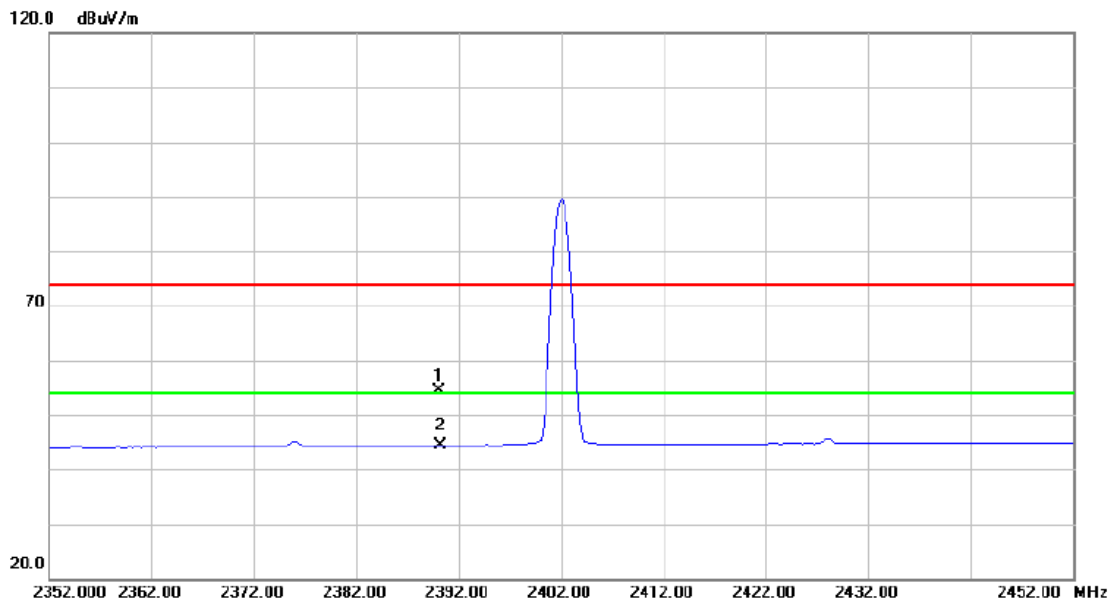


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	23.67	31.79	55.46	74.00	-18.54	peak	
2	*	2483.500	13.01	31.79	44.80	54.00	-9.20	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

**Polarization: Horizontal**



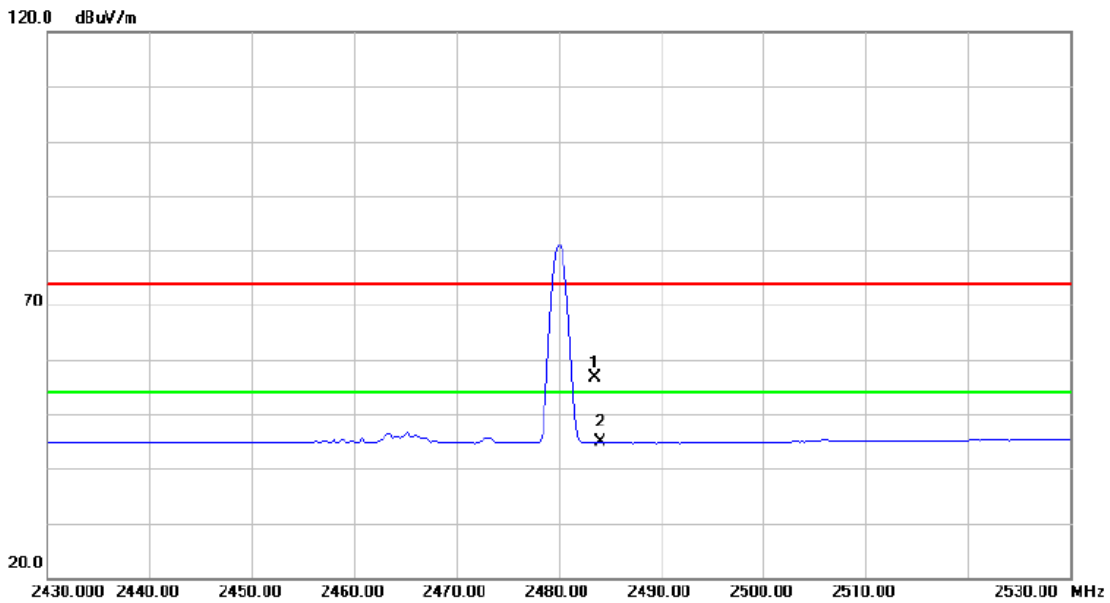
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	22.96	31.40	54.36	74.00	-19.64	peak	
2	*	2390.000	12.95	31.40	44.35	54.00	-9.65	AVG	





EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

**Polarization: Horizontal**

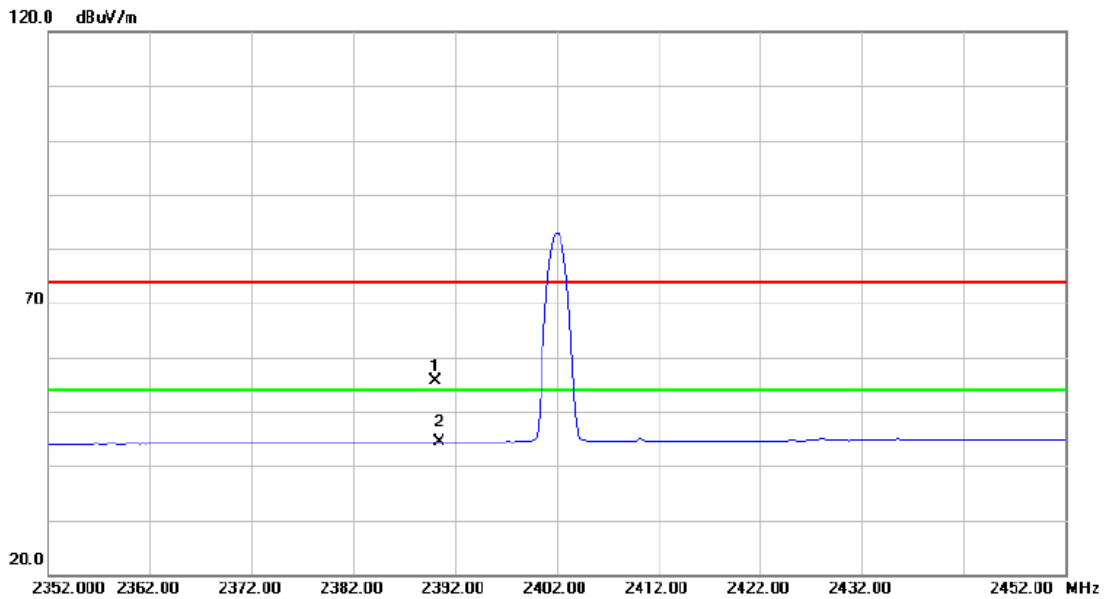


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2483.500	24.93	31.79	56.72	74.00	-17.28	peak	
2 *	2483.500	13.01	31.79	44.80	54.00	-9.20	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

**Polarization: Vertical**

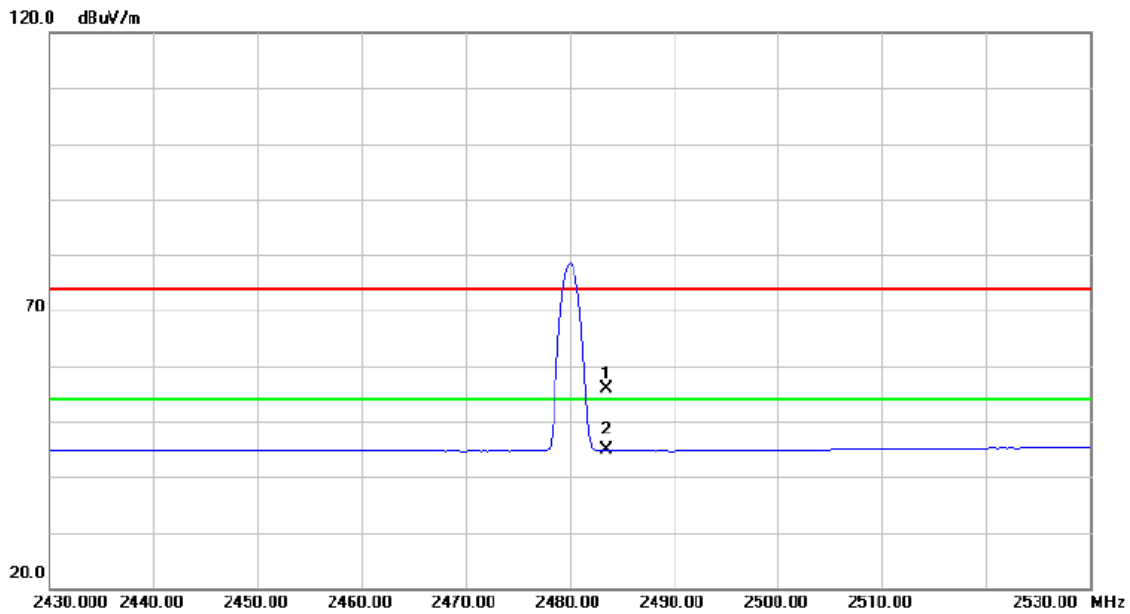


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.000	24.24	31.40	55.64	74.00	-18.36	peak	
2 *	2390.000	12.94	31.40	44.34	54.00	-9.66	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

**Polarization: Vertical**

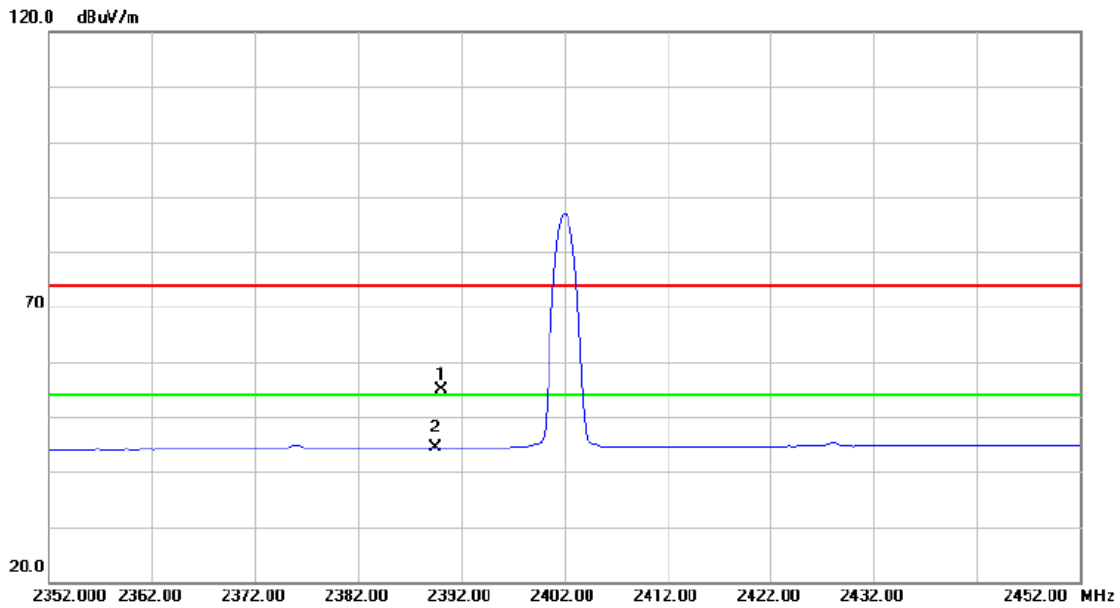


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	24.01	31.79	55.80	74.00	-18.20	peak	
2	*	2483.500	13.05	31.79	44.84	54.00	-9.16	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

**Polarization: Horizontal**

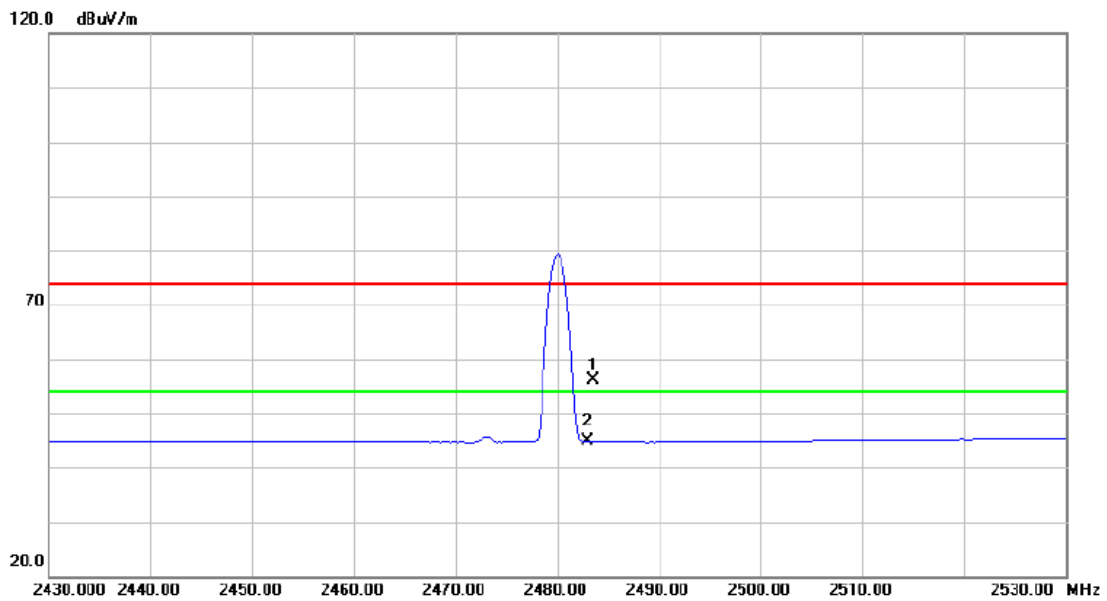


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.46	31.40	54.86	74.00	-19.14	peak	
2	*	2390.000	12.93	31.40	44.33	54.00	-9.67	AVG	



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

**Polarization: Horizontal**



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2483.500	24.45	31.79	56.24	74.00	-17.76	peak	
2 *	2483.500	13.07	31.79	44.86	54.00	-9.14	AVG	



**10 NUMBER OF HOPPING FREQUENCY**

**10.1 LIMIT**

Test Item	Frequency Range (MHz)	Limit
Number of Hopping Channel	2400-2483.5	shall use at least 15 channels

**10.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

**10.3 MEASURING INSTRUMENTS SETTING**

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

**10.4 TEST PROCEDURES**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=100 kHz, Sweep time = Auto.

**10.5 TEST SETUP LAYOUT**



**10.6 DEVIATION FROM TEST STANDARD**

No deviation

**10.7 EUT OPERATING CONDITIONS**

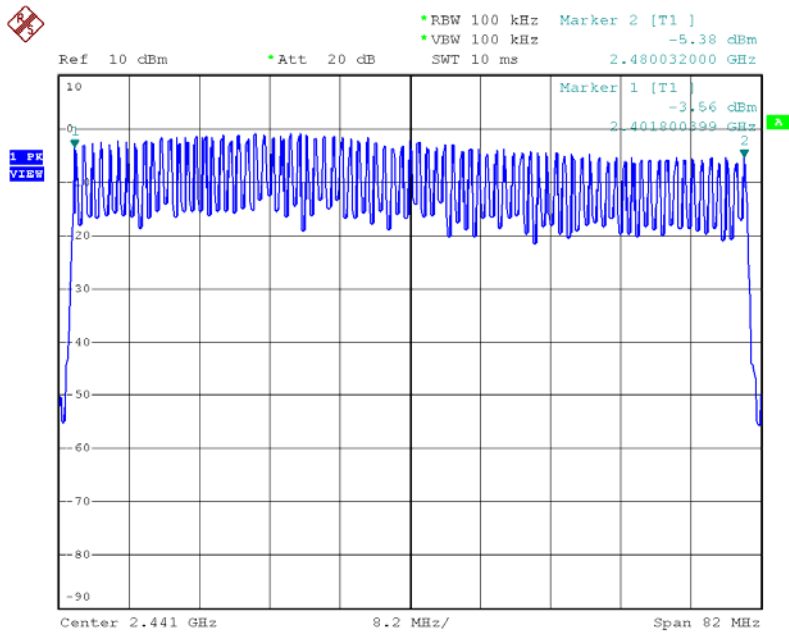
The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.



**10.8 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps		

Number of Hopping Channel	Limit	Result
79	15	Pass

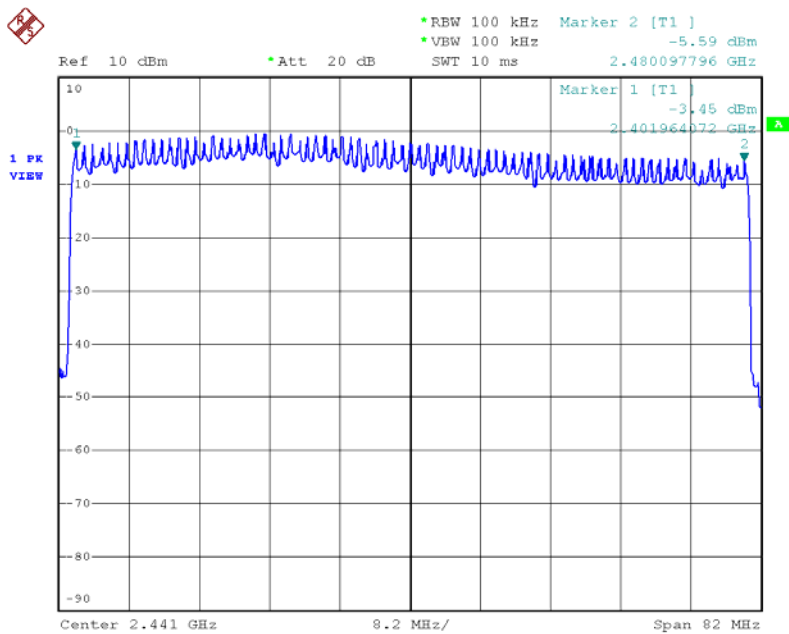


Date: 24.APR.2014 13:41:28



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps		

Number of Hopping Channel	Limit	Result
79	15	Pass



Date: 24.APR.2014 14:43:09





**11 AVERAGE TIME OF OCCUPANCY**

**11.1 LIMIT**

Test Item	Frequency Range (MHz)	Limit
Average time of occupancy	2400-2483.5	shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

**11.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

**11.3 TEST PROCEDURES**

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 100 kHz and VBW to 100 kHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum  $1600 / 79 / 6 = 3.37$  hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times  $3.37 \times 31.6 = 106.6$  within 31.6 seconds.
- j. DH3 Packet permit maximum  $1600 / 79 / 4 = 5.06$  hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times  $5.06 \times 31.6 = 160$  within 31.6 seconds.
- k. DH1 Packet permit maximum  $1600 / 79 / 2 = 10.12$  hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times  $10.12 \times 31.6 = 320$  within 31.6 seconds.

**11.4 TEST SETUP LAYOUT**



**11.5 DEVIATION FROM TEST STANDARD**

No deviation



### **11.6 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.

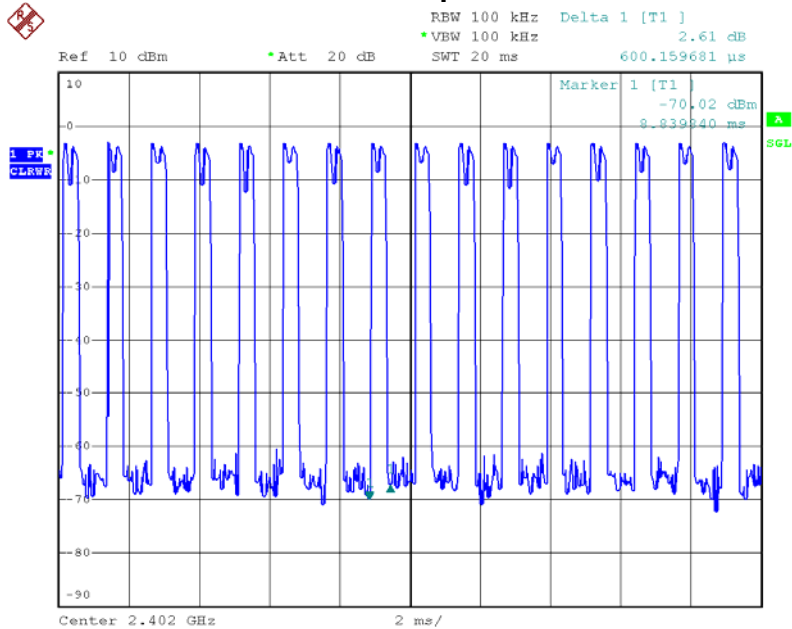


**11.7 TEST RESULTS**

EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2402 MHz	3.0835	0.3289	0.4	PASS
DH3	2402 MHz	1.8023	0.2884	0.4	PASS
DH1	2402 MHz	0.6002	0.1921	0.4	PASS

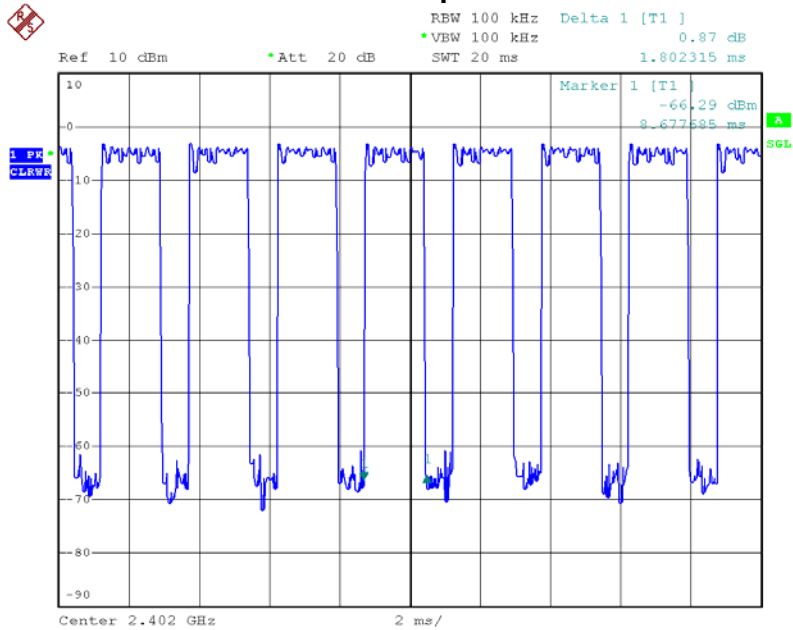
**Bluetooth/1 Mbps/2402 MHz/DH1**



Date: 24.APR.2014 13:43:00

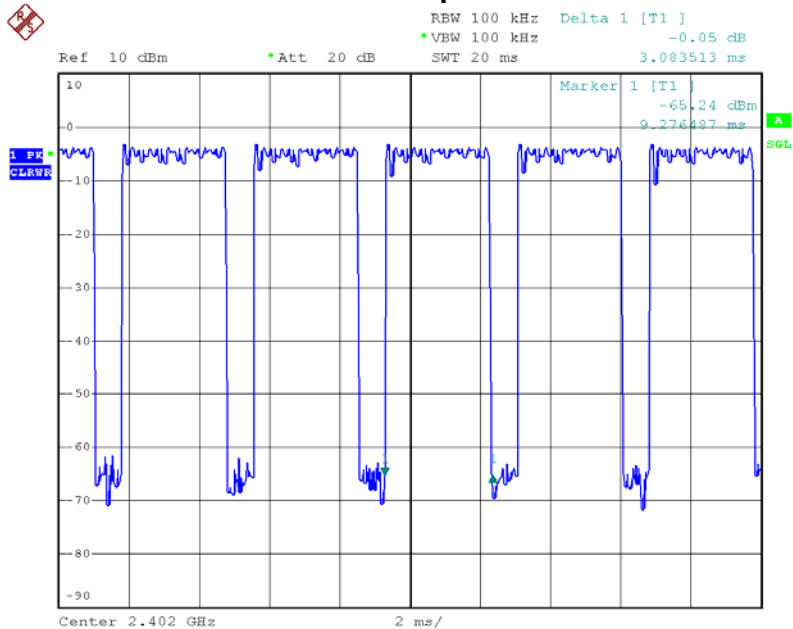


### Bluetooth/1 Mbps/2402 MHz/DH3



Date: 24.APR.2014 13:46:21

### Bluetooth/1 Mbps/2402 MHz/DH5



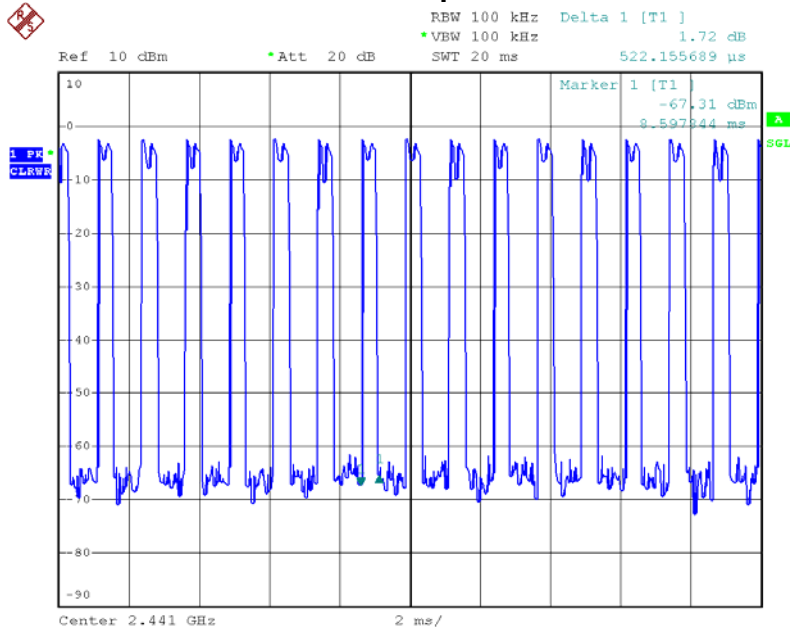
Date: 24.APR.2014 13:30:40



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2441 MHz	3.0800	0.3285	0.4	PASS
DH3	2441 MHz	1.8426	0.2948	0.4	PASS
DH1	2441 MHz	0.5222	0.1671	0.4	PASS

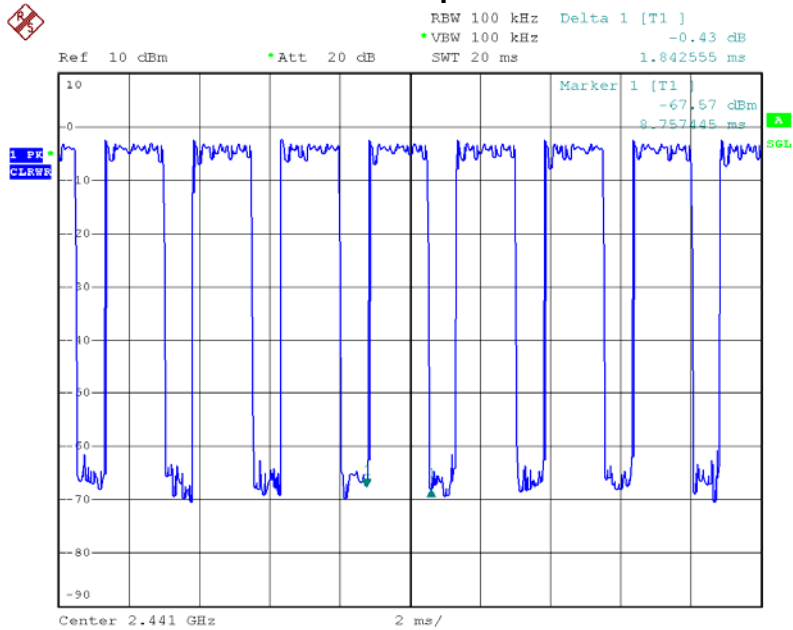
**Bluetooth/1 Mbps/2441 MHz/DH1**



Date: 24.APR.2014 13:44:07

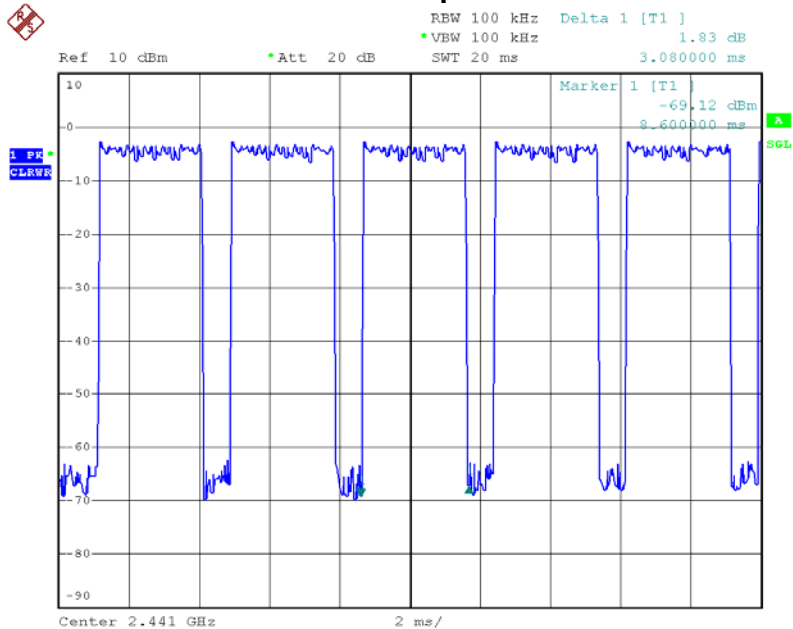


### Bluetooth/1 Mbps/2441 MHz/DH3



Date: 24.APR.2014 13:47:29

### Bluetooth/1 Mbps/2441 MHz/DH5



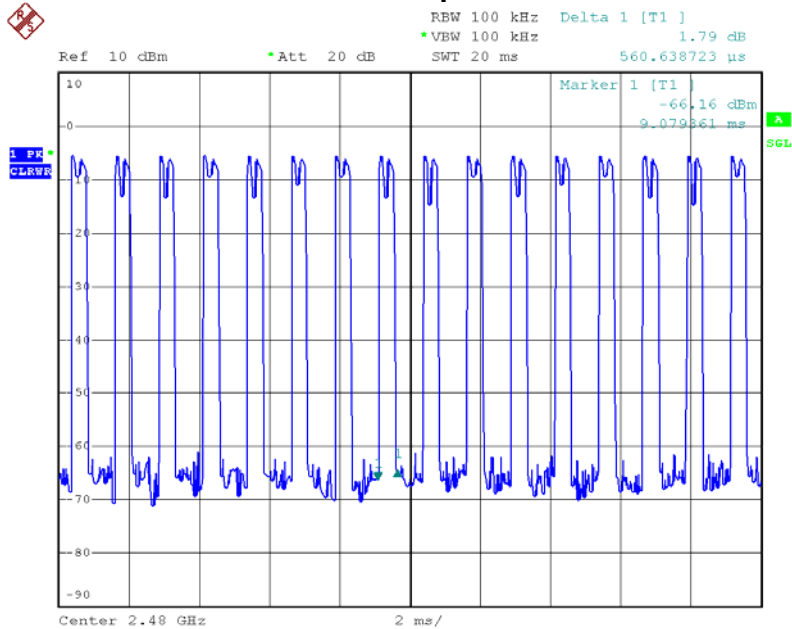
Date: 24.APR.2014 13:34:27



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/1 Mbps/2480 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2480 MHz	3.0414	0.3244	0.4	PASS
DH3	2480 MHz	1.8425	0.2948	0.4	PASS
DH1	2480 MHz	0.5606	0.1794	0.4	PASS

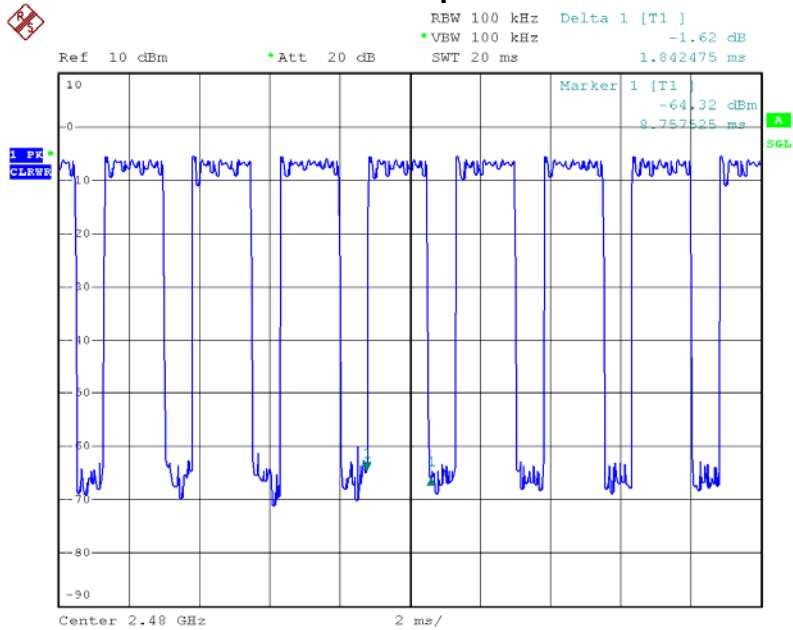
**Bluetooth/1 Mbps/2480 MHz/DH1**



Date: 24.APR.2014 13:45:35

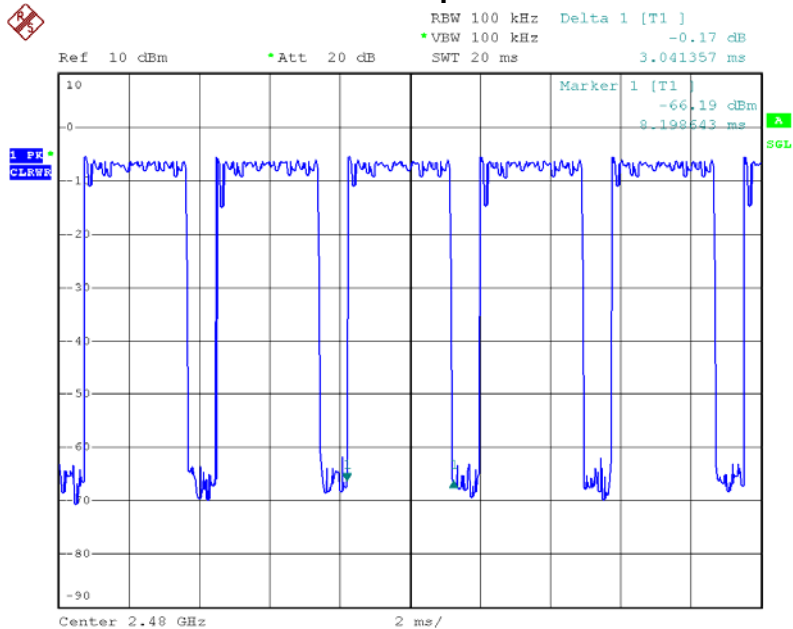


### Bluetooth/1 Mbps/2480 MHz/DH3



Date: 24.APR.2014 13:48:25

### Bluetooth/1 Mbps/2480 MHz/DH5



Date: 24.APR.2014 13:37:17

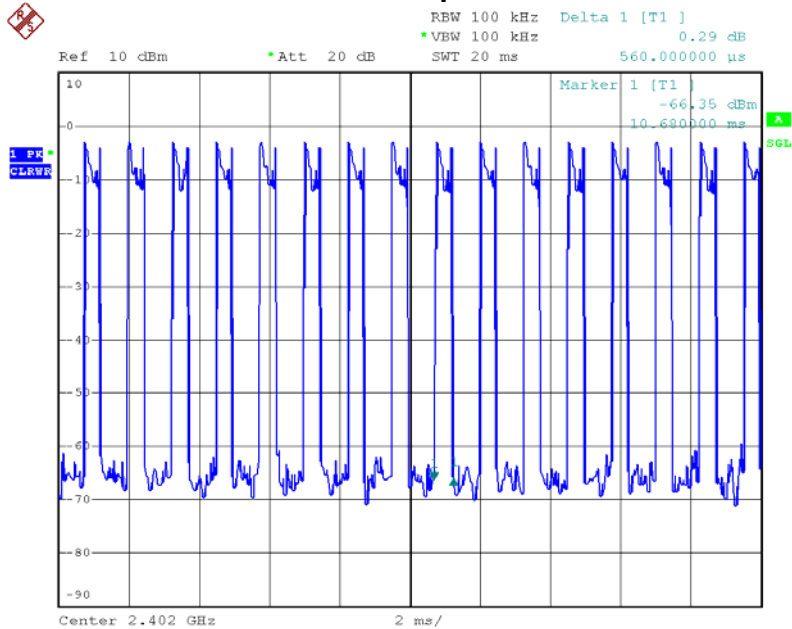




EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2402 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2402 MHz	3.0860	0.3292	0.4	PASS
DH3	2402 MHz	1.8022	0.2884	0.4	PASS
DH1	2402 MHz	0.5600	0.1792	0.4	PASS

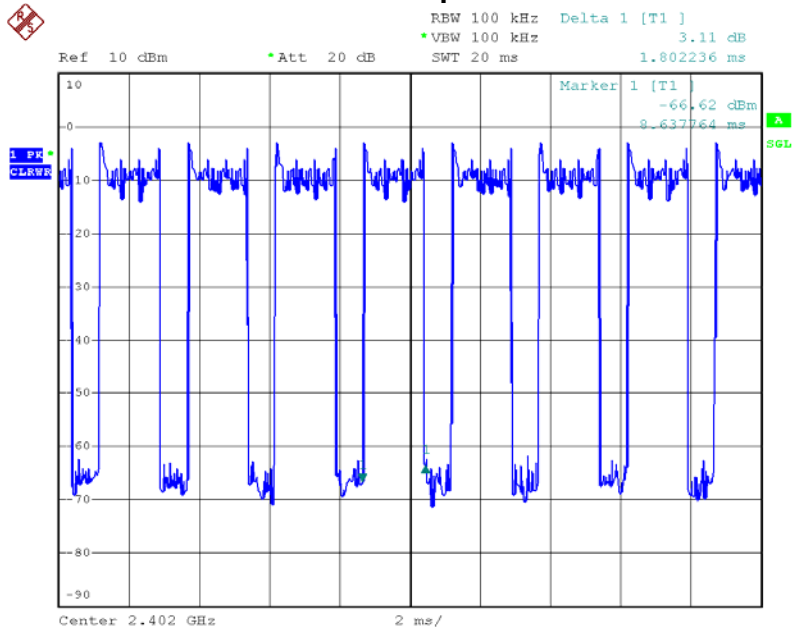
**Bluetooth/3 Mbps/2402 MHz/DH1**



Date: 24.APR.2014 14:18:11

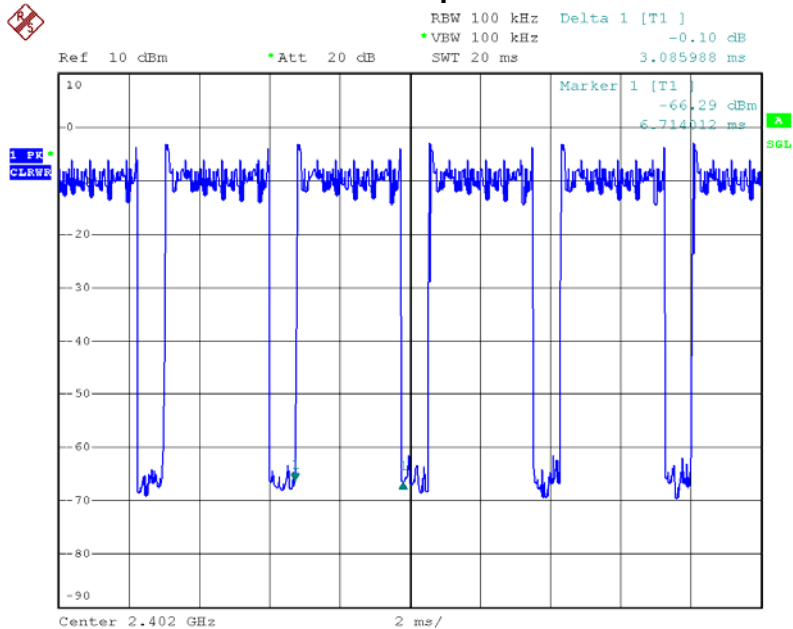


### Bluetooth/3 Mbps/2402 MHz/DH3



Date: 24.APR.2014 14:20:50

### Bluetooth/3 Mbps/2402 MHz/DH5



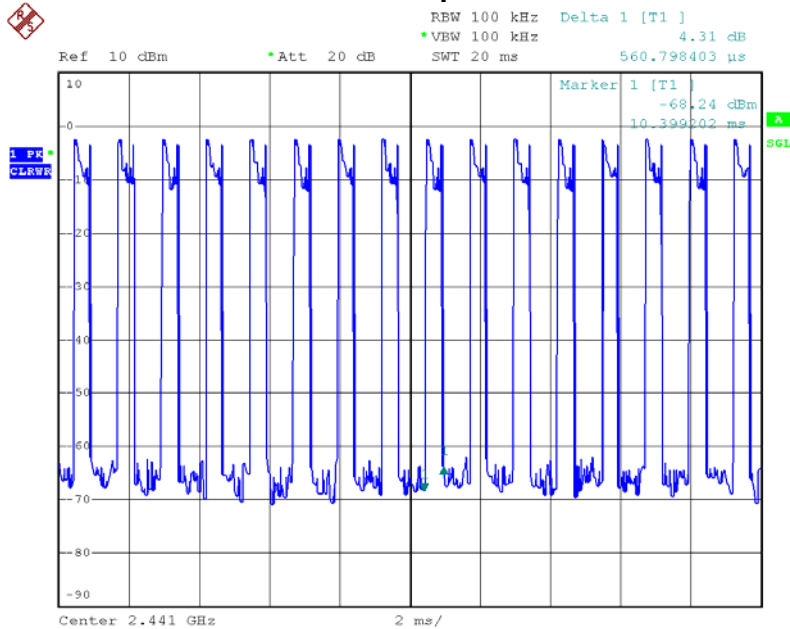
Date: 24.APR.2014 14:10:06



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2441 MHz	3.0456	0.3249	0.4	PASS
DH3	2441 MHz	1.8042	0.2887	0.4	PASS
DH1	2441 MHz	0.5608	0.1795	0.4	PASS

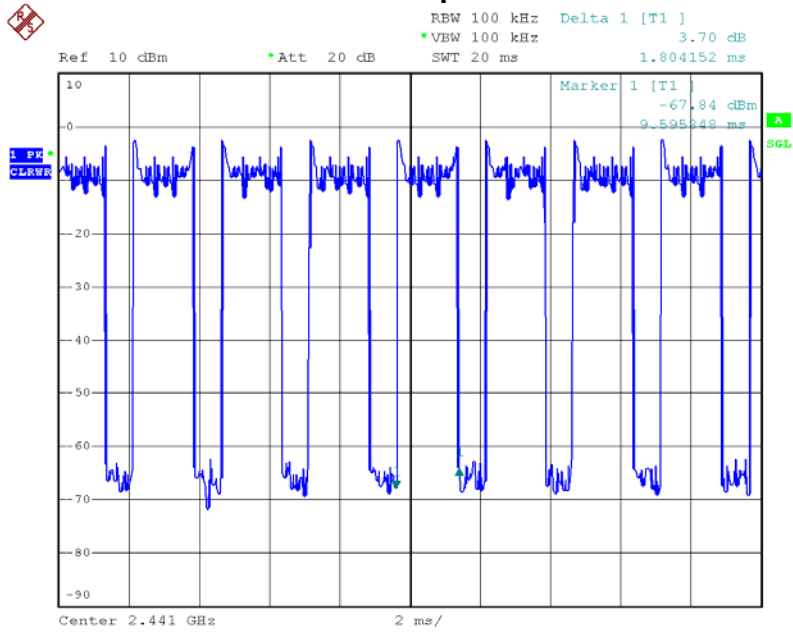
**Bluetooth/3 Mbps/2441 MHz/DH1**



Date: 24.APR.2014 14:18:51

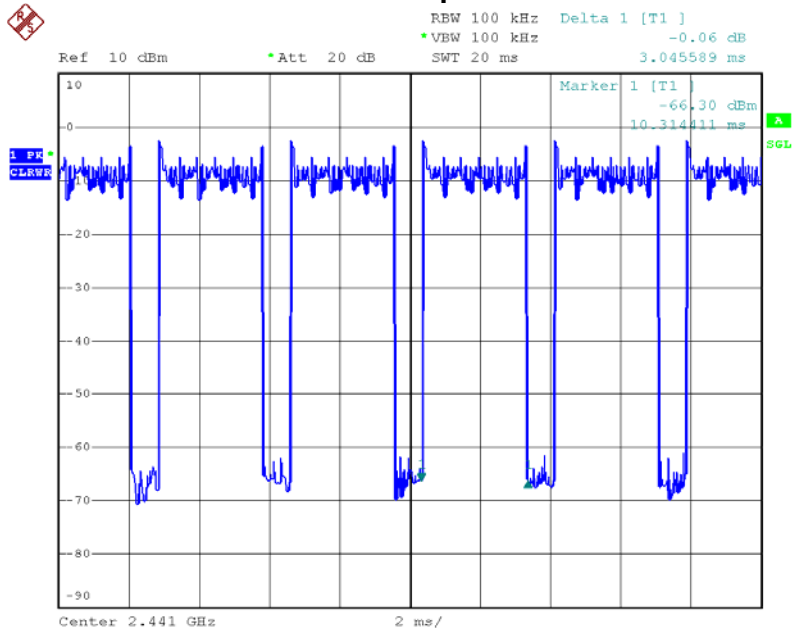


### Bluetooth/3 Mbps/2441 MHz/DH3



Date: 24.APR.2014 14:21:46

### Bluetooth/3 Mbps/2441 MHz/DH5



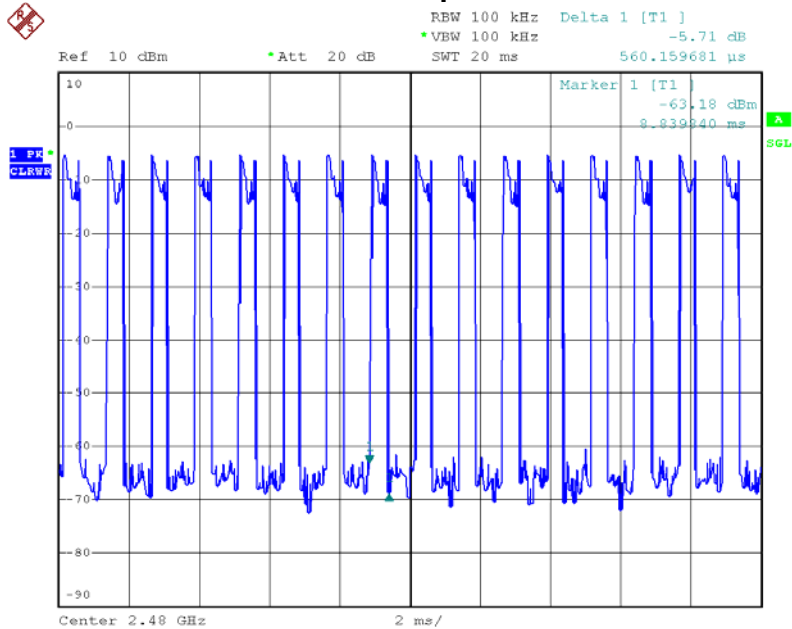
Date: 24.APR.2014 14:11:49



EUT	DIGITAL CAMERA	Model Name	EX-FR10
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 3.7V		
Test Mode	Bluetooth/3 Mbps/2480 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2480 MHz	3.0469	0.3250	0.4	PASS
DH3	2480 MHz	1.8024	0.2884	0.4	PASS
DH1	2480 MHz	0.5602	0.1793	0.4	PASS

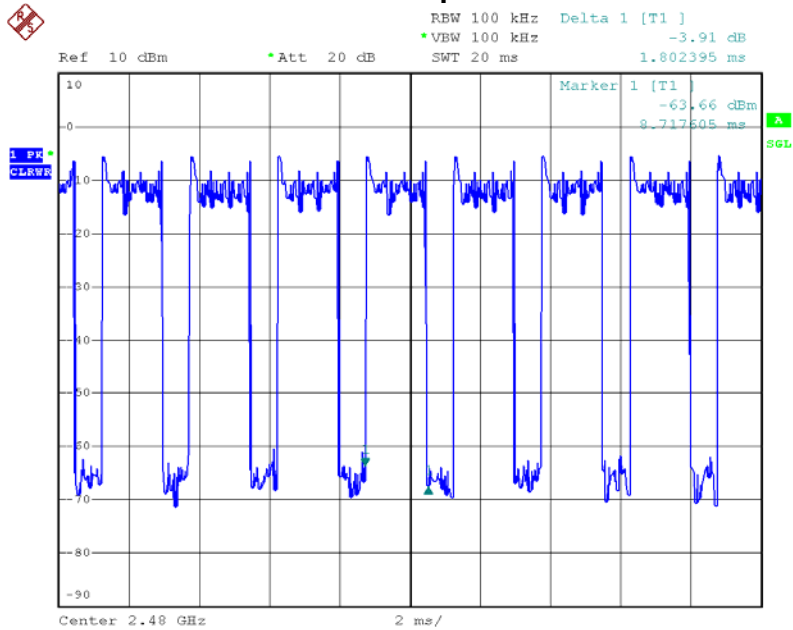
**Bluetooth/3 Mbps/2480 MHz/DH1**



Date: 24.APR.2014 14:19:50

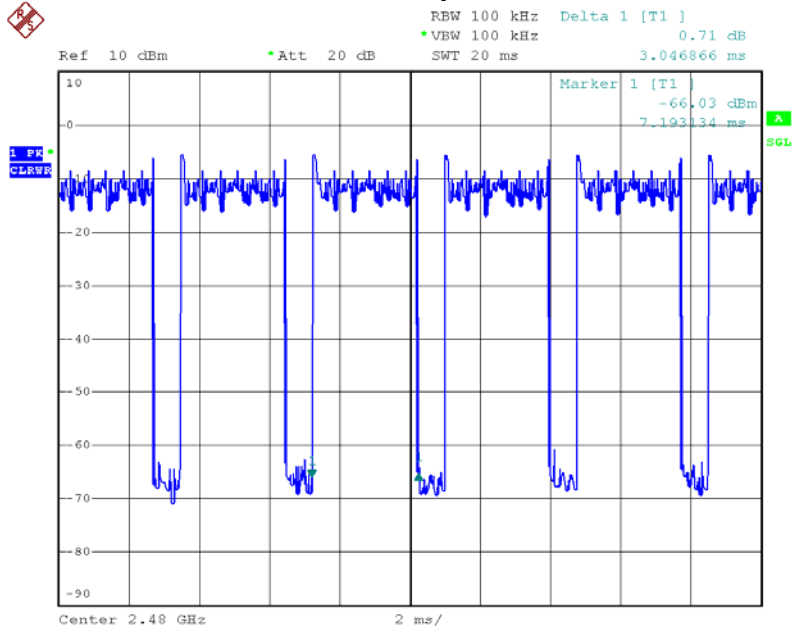


### Bluetooth/3 Mbps/2480 MHz/DH3



Date: 24.APR.2014 14:22:17

### Bluetooth/3 Mbps/2480 MHz/DH5



Date: 24.APR.2014 14:16:45