

APPLICATION CERTIFICATION
On Behalf of
IMC INTERNATIONAL INC.

4 inch 3G TABLET
Model No.: ICE

FCC ID: 2ACI7-ICE

Prepared for : IMC INTERNATIONAL INC.
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Report Number : ATE20141089
Date of Test : Jun 18, 2014- July 11, 2014
Date of Report : July 11, 2014

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Test Report Certification

Applicant : IMC INTERNATIONAL INC.
Manufacturer : IMC INTERNATIONAL INC.
EUT Description : 4 inch 3G TABLET
(A) MODEL NO.: ICE
(B) Trade Name.: /
(C) POWER SUPPLY: DC 3.7V (Powered by battery) or AC 120V/60Hz
(Powered by adapter)

Measurement Procedure Used:

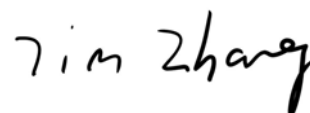
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4- 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Jun 18, 2014-July 11, 2014

Prepared by :



(Tim.zhang, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	4 inch 3G TABLET
Model Number	:	ICE
Frequency Band	:	2402MHz-2480MHz
Number of Channels	:	79
Modulation type	:	GFSK, $\Pi/4$ -DQPSK, 8DPSK
Antenna Gain	:	1.0dBi
Bluetooth version	:	Bluetooth V2.1+EDR
Antenna type	:	Integral Antenna
Adapter	:	Model:UBP-A806-051000 Input: AC 100-240VAC 50/60Hz Output: 5.0V 1.0A
Power Supply	:	DC 3.7V (Powered by Battery) AC 120V/60Hz (Powered by Adapter)
Applicant	:	IMC INTERNATIONAL INC.
Address	:	28E Jingang, xixiang, Bao an District, Shenzhen, Guangdong Province, China
Manufacturer	:	IMC INTERNATIONAL INC.
Address	:	28E Jingang, xixiang, Bao an District, Shenzhen, Guangdong Province, China
Date of sample received	:	Jun 18, 2014
Date of Test	:	Jun 18, 2014-July 11, 2014

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 11, 2014	Jan. 10, 2015
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 11, 2014	Jan. 10, 2015

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz

Middle Channel: 2441MHz

High Channel: 2480MHz

Hopping

3.2.Configuration and peripherals

EUT

(EUT: 4 inch 3G TABLET)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Power Line Conducted Emission	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d) Section 15.209	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): 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.

5.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

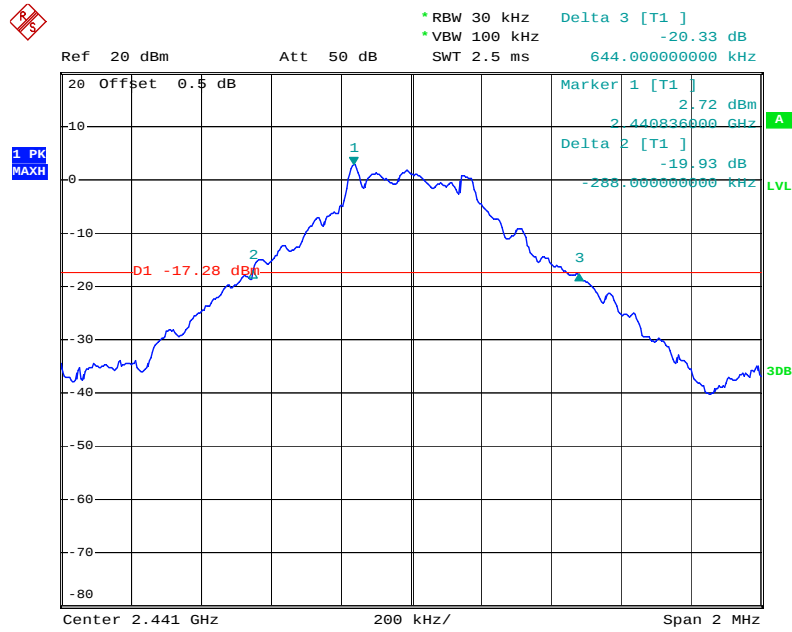
5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

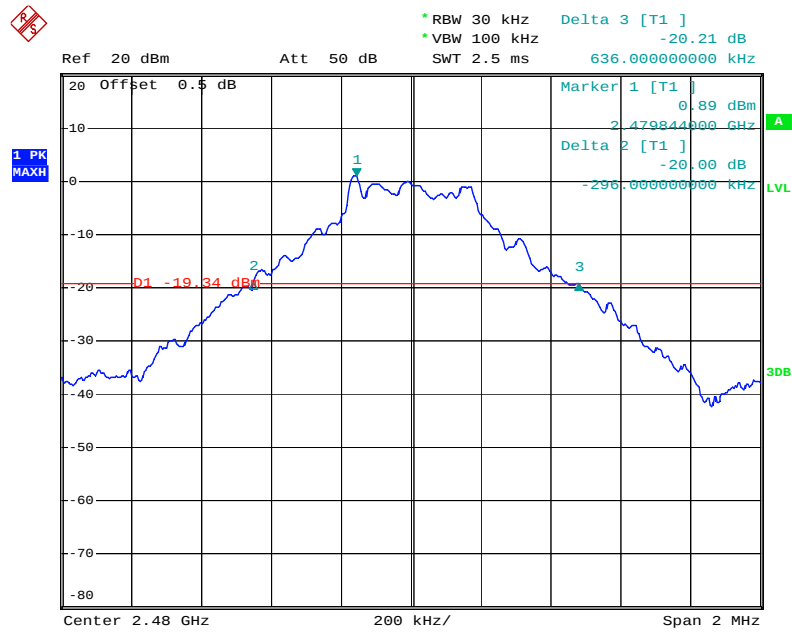
5.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

Middle Channel: 2441MHz



Date: 30.JUN.2014 09:23:51

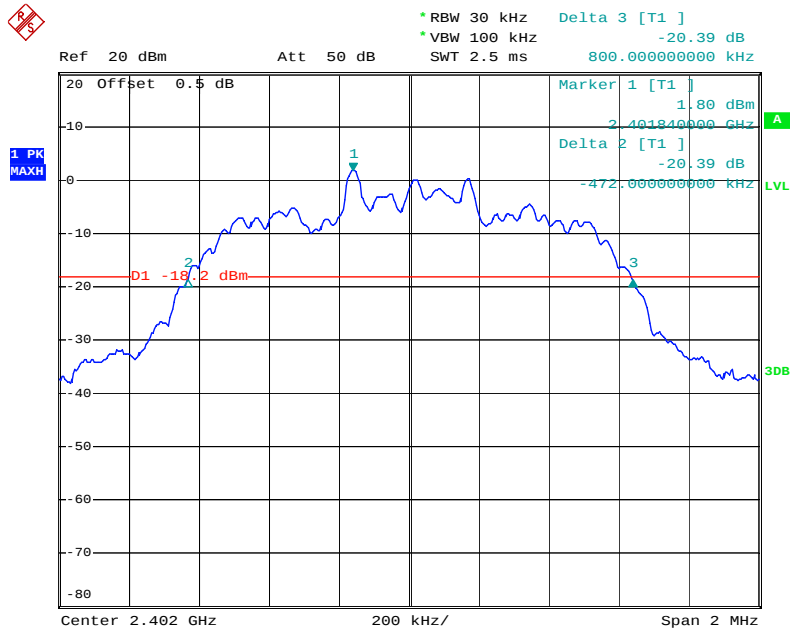
High Channel: 2480MHz



Date: 30.JUN.2014 09:25:45

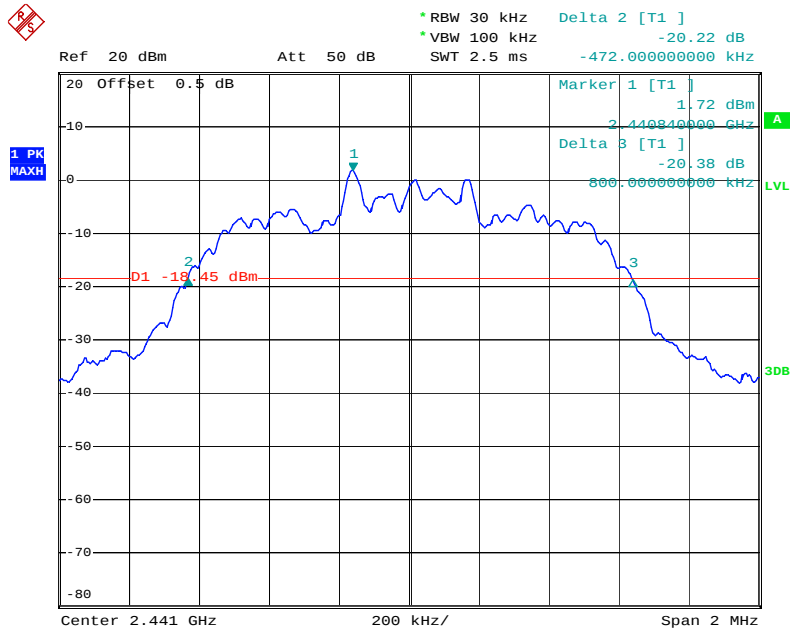
Mode 2: $\pi/4$ DQPSK Link Mode

Low Channel: 2402MHz



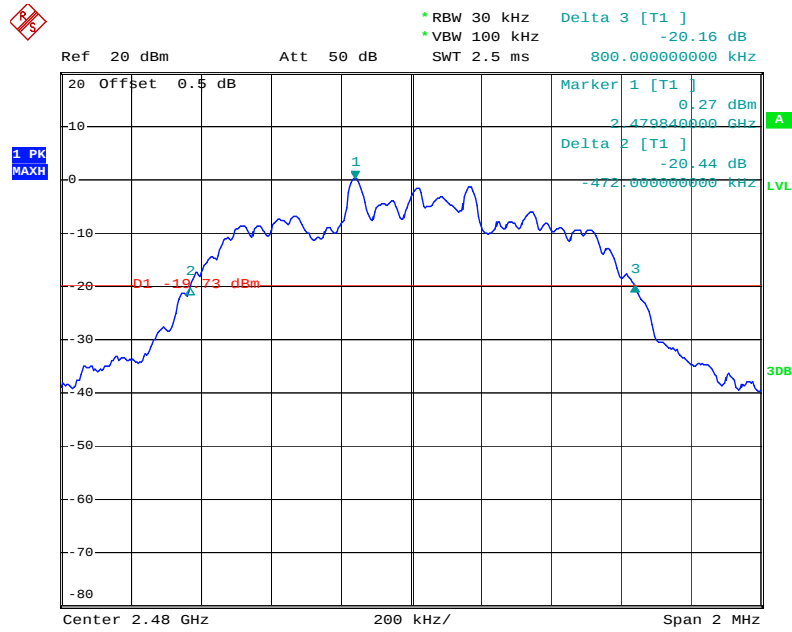
Date: 30.JUN.2014 09:31:34

Middle Channel: 2441MHz



Date: 30.JUN.2014 09:29:38

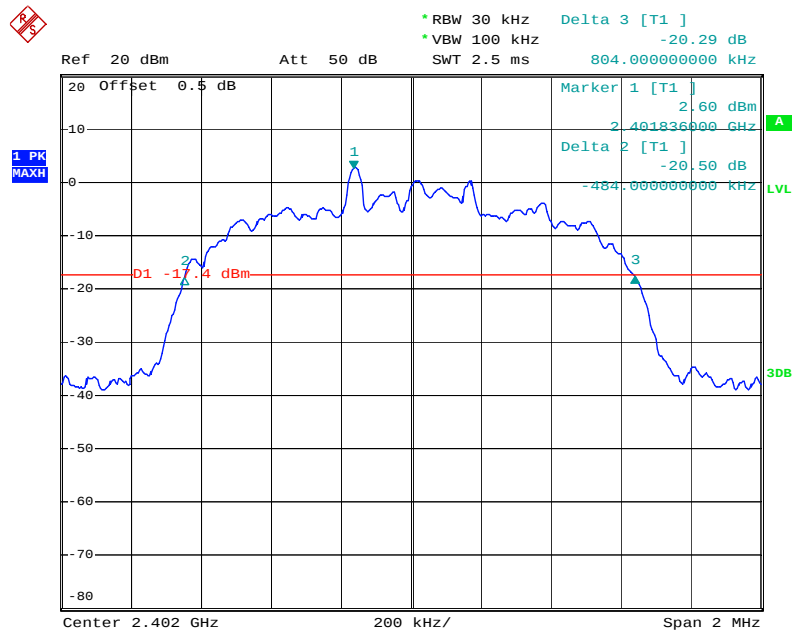
High Channel: 2480MHz



Date: 30.JUN.2014 09:27:57

Mode 3: 8DPSK Link Mode

Low Channel: 2402MHz



Date: 30.JUN.2014 09:34:08

[illegible]

Date: 30.JUN.2014 09:35:55

1. PK
MAXH

Ref 20 dBm Att 50 dB

RBW 30 kHz VBW 100 kHz SWT 2.5 ms

Delta 3 [T1] -20.12 dB

800.00000000 kHz

20 Offset 0.5 dB

Marker 1 [T1] 0.82 dBm

2.479840000 GHz

Delta 2 [T1] -20.24 dB

-488.00000000 kHz

D1 -18.18 dBm

Center 2.48 GHz 200 kHz/ Span 2 MHz

Date: 30.JUN.2014 09:37:35

6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): 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. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

- 6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 6.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz. Adjust Span to 3 MHz.
- 6.5.3. Set the adjacent channel of the EUT maxhold another trace.
- 6.5.4. Measurement the channel separation

6.6. Test Result

GFSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 20dB bandwidth	PASS
	2441			
High	2479	1.002	25KHz or 20dB bandwidth	PASS
	2480			

Π/4-DQPSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2480			

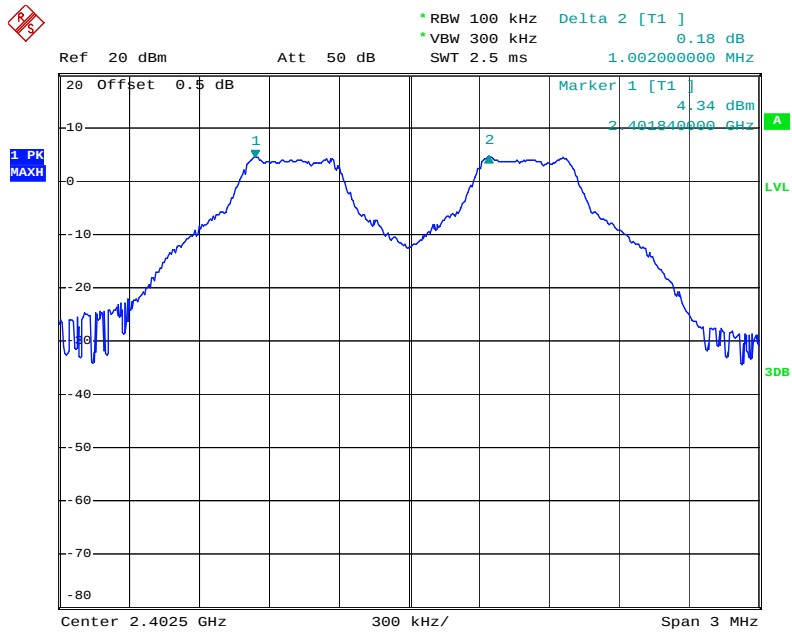
8DPSK

Channel	Frequency (MHz)	Channel Separation(MHz)	Limit (MHz)	Result
Low	2402	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2403			
Middle	2440	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2441			
High	2479	1.002	25KHz or 2/3*20dB bandwidth	PASS
	2480			

The spectrum analyzer plots are attached as below.

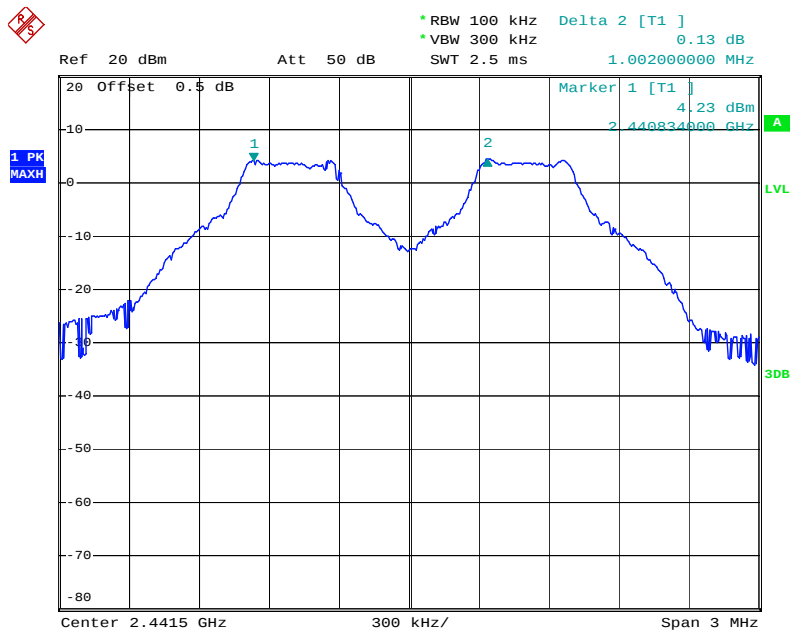
Mode 1: GFSK Link Mode

Low Channel: 2402MHz



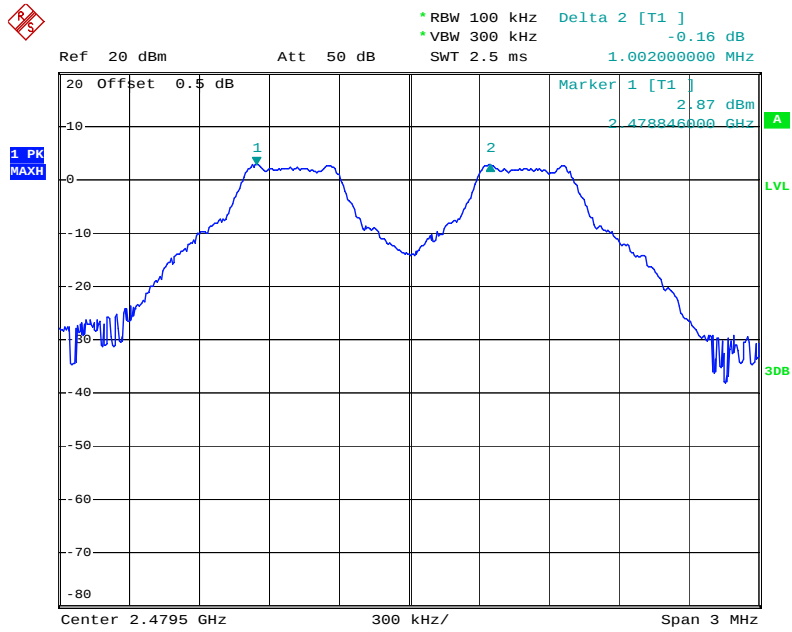
Date: 30.JUN.2014 10:07:55

Middle Channel: 2441MHz



Date: 30.JUN.2014 10:09:26

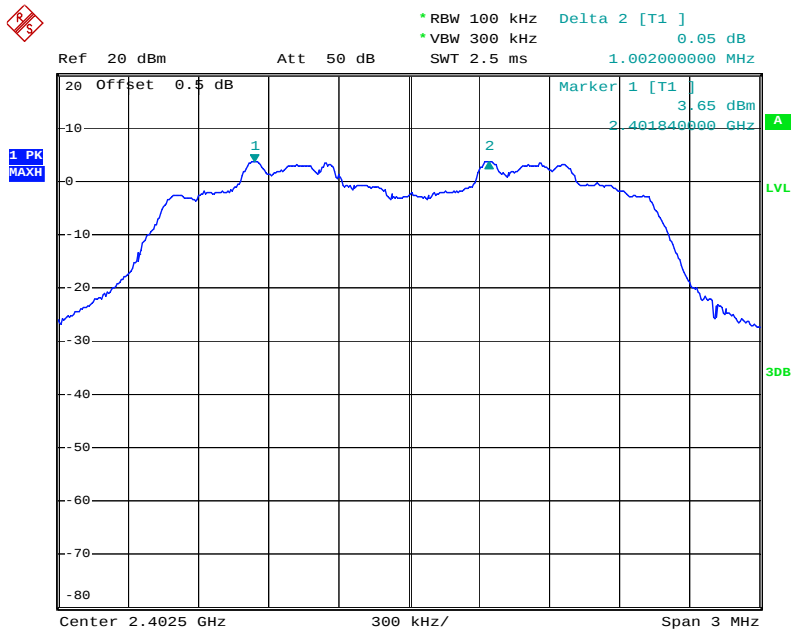
High Channel: 2480MHz



Date: 30.JUN.2014 10:10:32

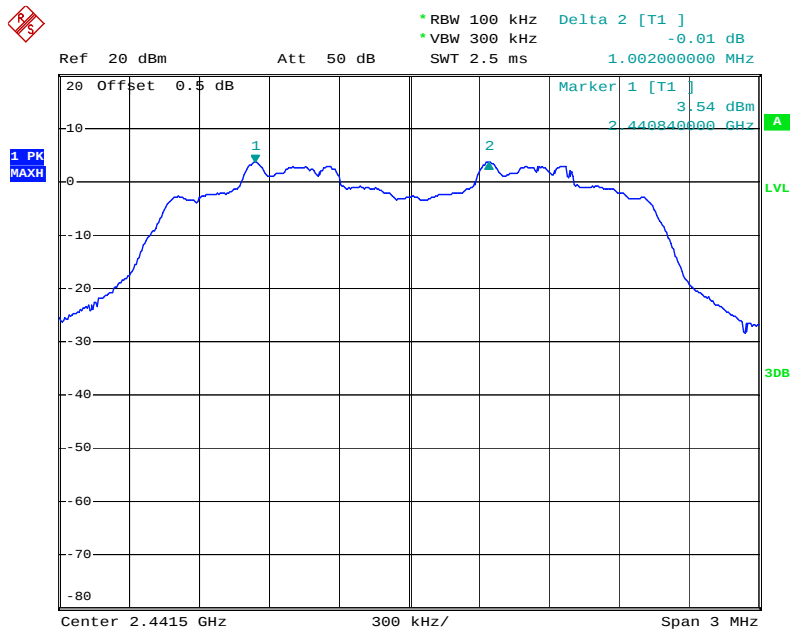
Mode 2: $\pi/4$ DQPSK Link Mode

Low Channel: 2402MHz



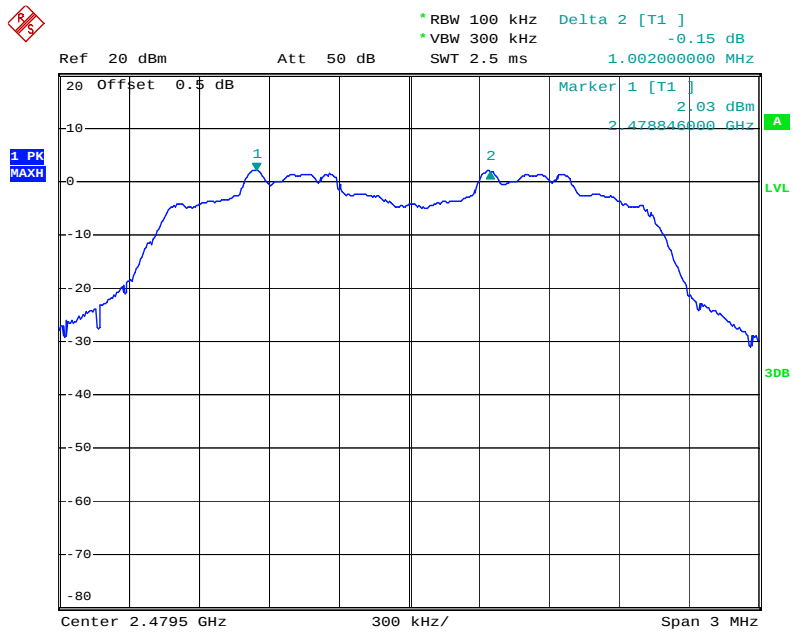
Date: 30.JUN.2014 10:17:49

Middle Channel: 2441MHz



Date: 30.JUN.2014 10:15:17

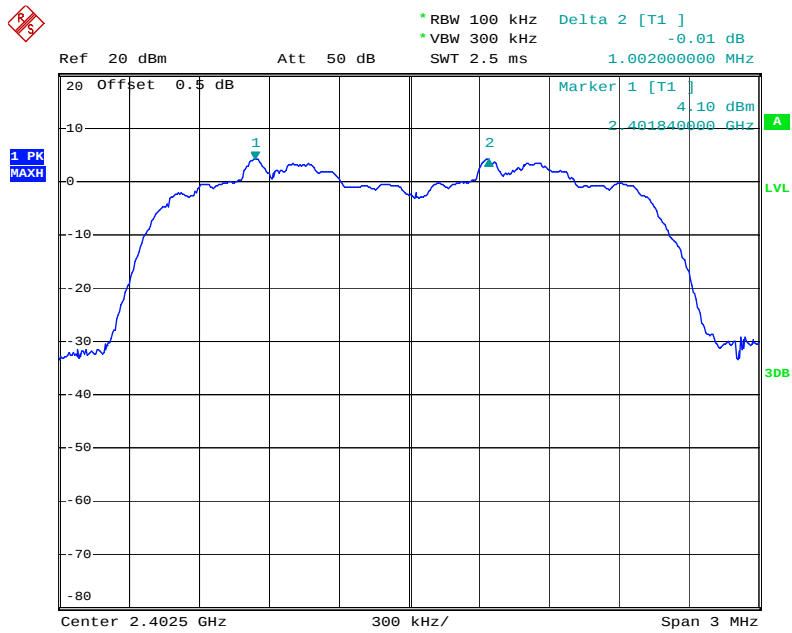
High Channel: 2480MHz



Date: 30.JUN.2014 10:12:48

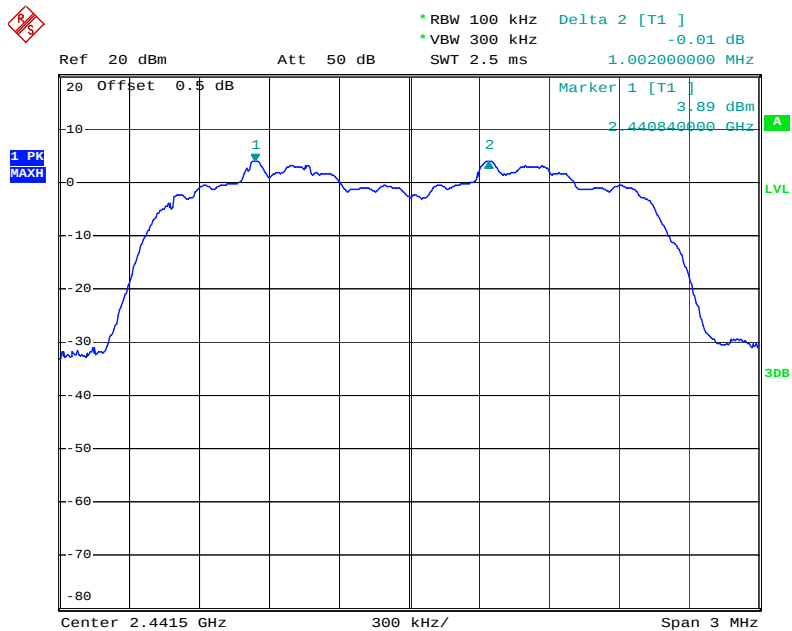
Mode 3: 8DPSK Link Mode

Low Channel: 2402MHz



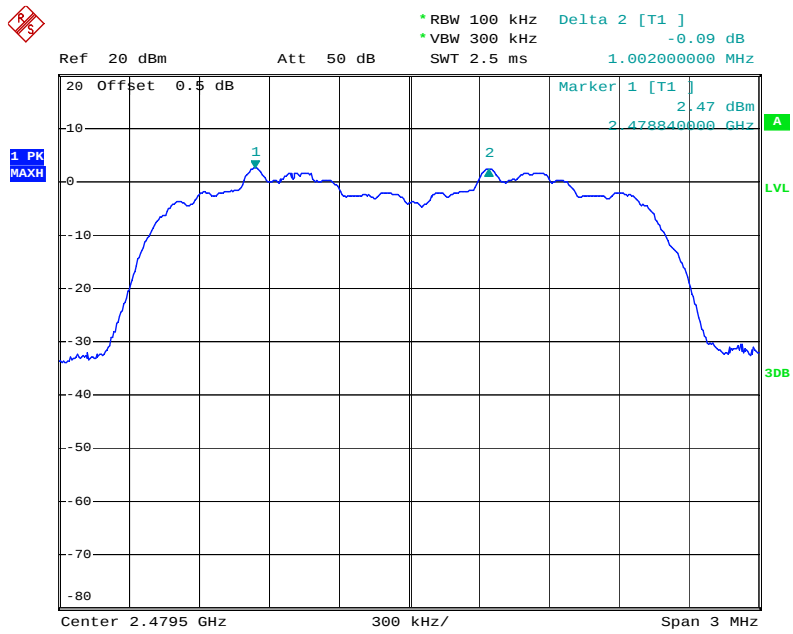
Date: 30.JUN.2014 10:19:00

Middle Channel: 2441MHz



Date: 30.JUN.2014 10:20:27

High Channel: 2480MHz



Date: 30.JUN.2014 10:22:29

7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

7.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX (Hopping on) modes measure it.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set the spectrum analyzer as Span=83.5MHz, RBW=100 kHz, VBW=300 kHz.

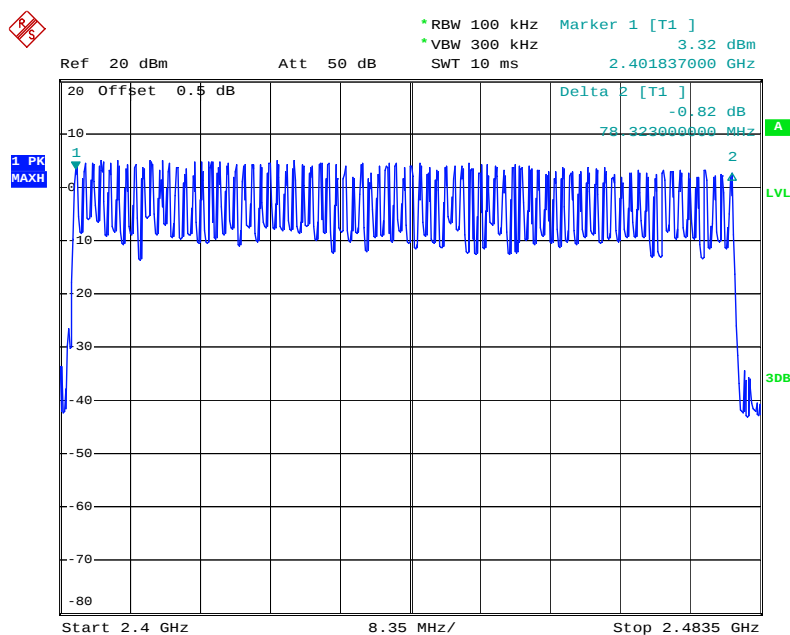
7.5.3. Max hold, view and count how many channel in the band.

7.6. Test Result

Total number of hopping channel	Measurement result(CH)	Limit(CH)
	79	≥ 15

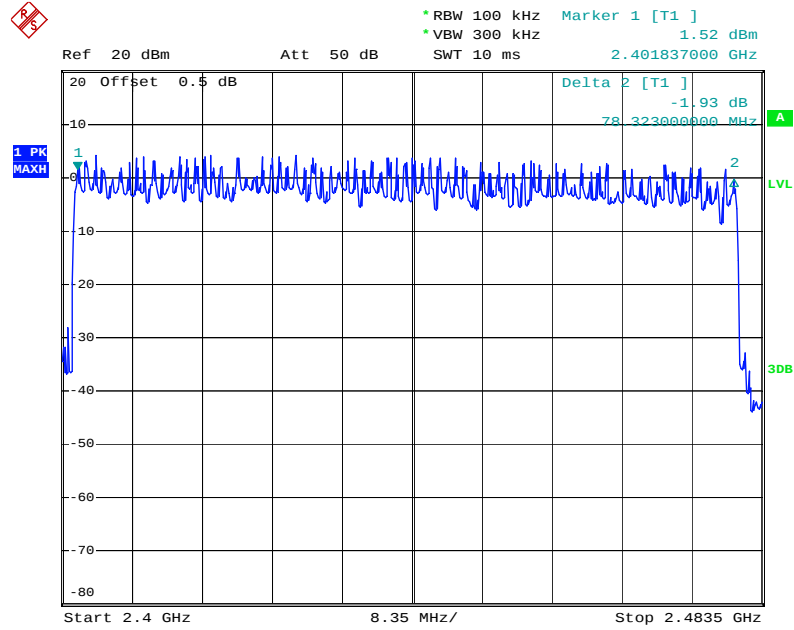
The spectrum analyzer plots are attached as below.

Number of hopping channels(GFSK)



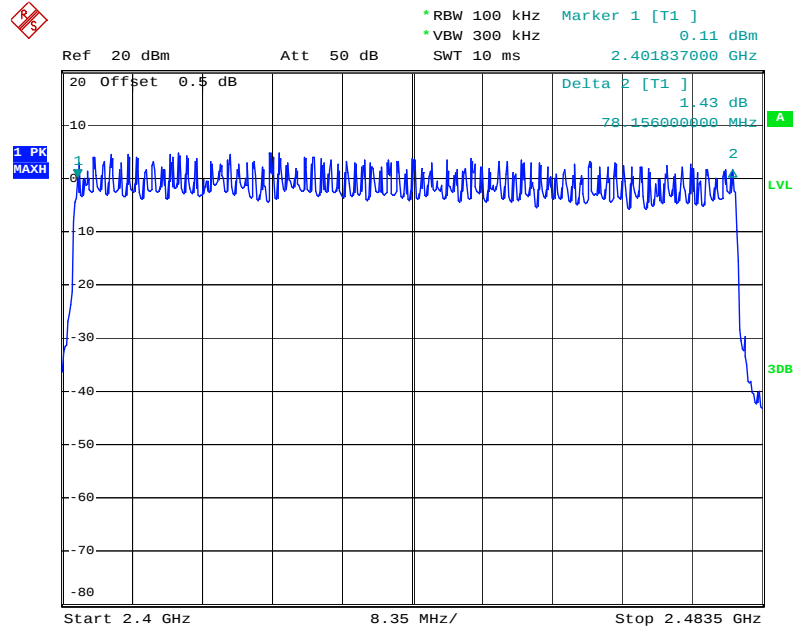
Date: 30.JUN.2014 10:40:23

Number of hopping channels($\Pi/4$ -DQPSK)



Date: 30.JUN.2014 10:45:00

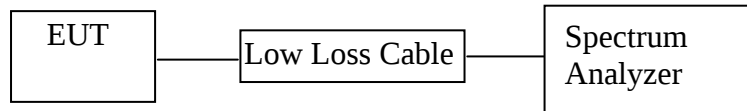
Number of hopping channels(8DPSK)



Date: 30.JUN.2014 10:50:34

8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

8.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2. Set center frequency of spectrum analyzer = operating frequency.

8.5.3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=5ms, 10ms, 15ms. Get the pulse time.

8.5.4.Repeat above procedures until all frequency measured were complete.

8.6.Test Result

GFSK Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.440	140.80	400
	2441	0.420	134.40	400
	2480	0.420	134.40	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$				
DH3	2402	1.700	272.00	400
	2441	1.680	268.80	400
	2480	1.680	268.80	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$				
DH5	2402	3.000	320.00	400
	2441	3.000	320.00	400
	2480	3.030	323.20	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$				

Π/4-DQPSK

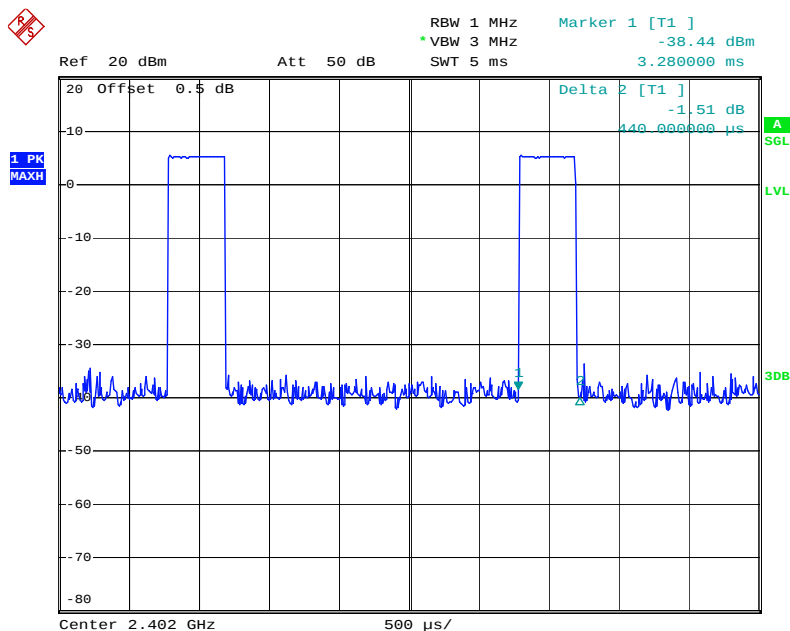
Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.430	137.60	400
	2441	0.440	140.80	400
	2480	0.440	140.80	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2*79)) \times 31.6$				
DH3	2402	1.610	257.60	400
	2441	1.620	259.20	400
	2480	1.660	265.60	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4*79)) \times 31.6$				
DH5	2402	2.980	317.87	400
	2441	3.010	321.07	400
	2480	3.010	321.07	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6*79)) \times 31.6$				

8DPSK Mode

Mode	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
DH1	2402	0.460	147.20	400
	2441	0.440	140.80	400
	2480	0.430	137.60	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$				
DH3	2402	1.550	248.00	400
	2441	1.530	244.80	400
	2480	1.570	251.20	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$				
DH5	2402	2.630	280.53	400
	2441	2.690	286.93	400
	2480	2.630	280.53	400
A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$				

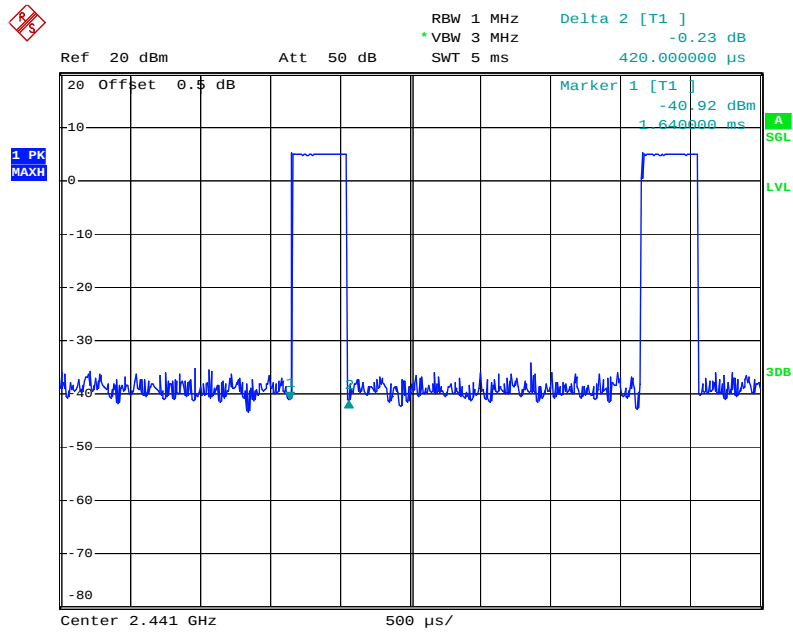
The spectrum analyzer plots are attached as below.

DH1 Low channel



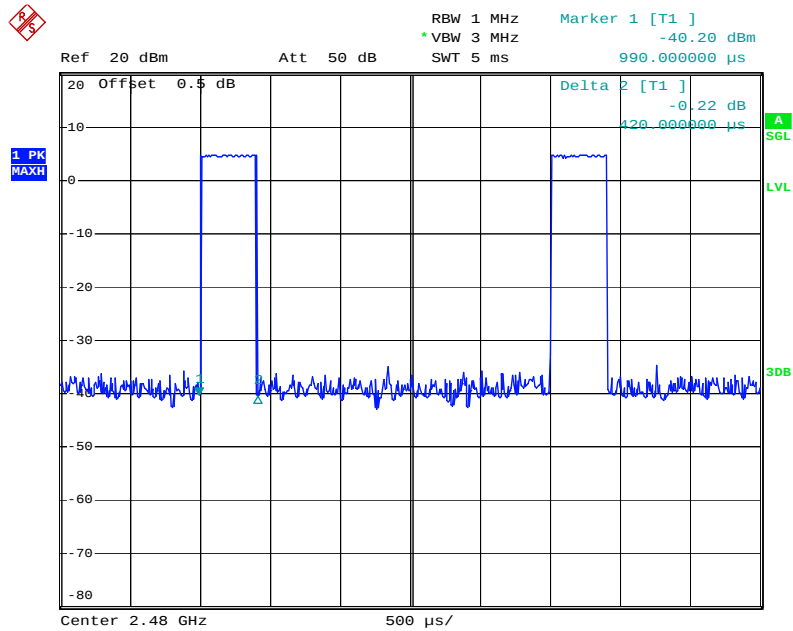
Date: 30.JUN.2014 11:17:45

DH1 Middle channel



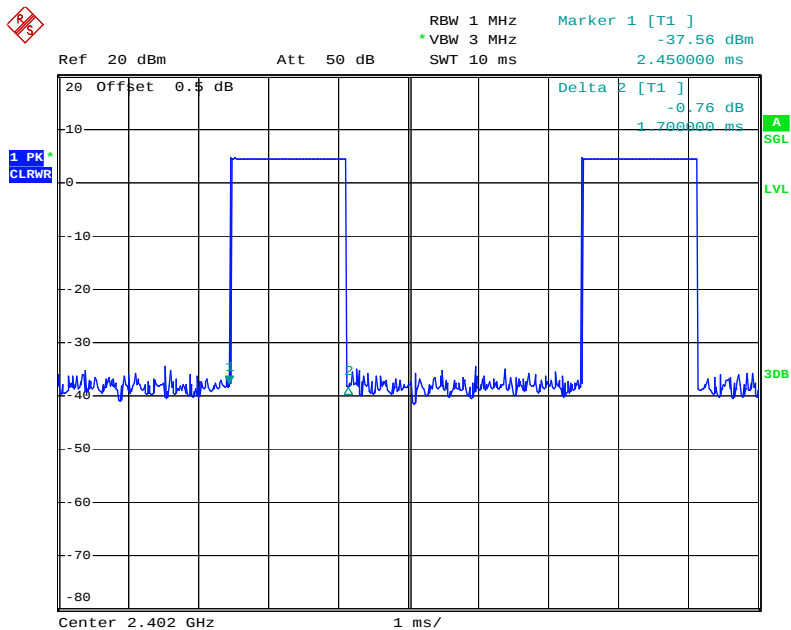
Date: 30.JUN.2014 11:17:09

DH1 High channel



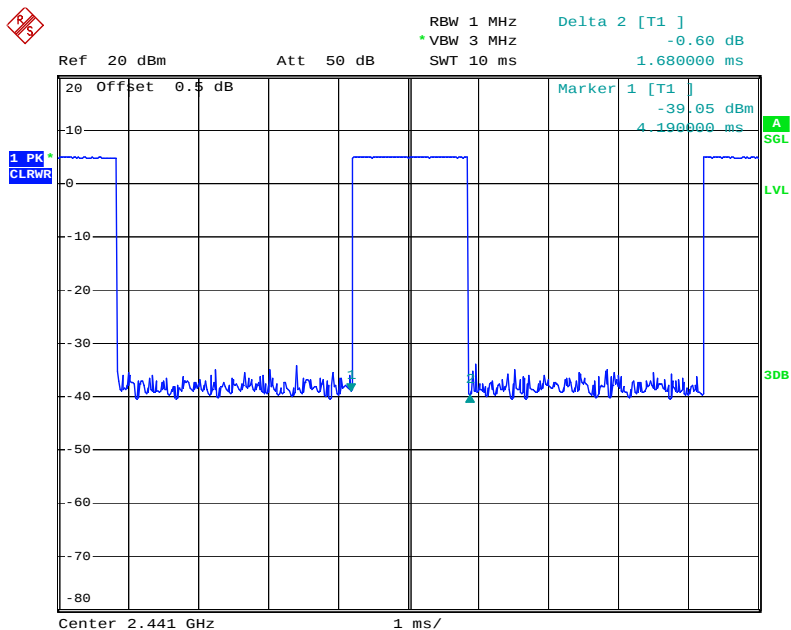
Date: 30.JUN.2014 11:16:28

DH3 Low channel



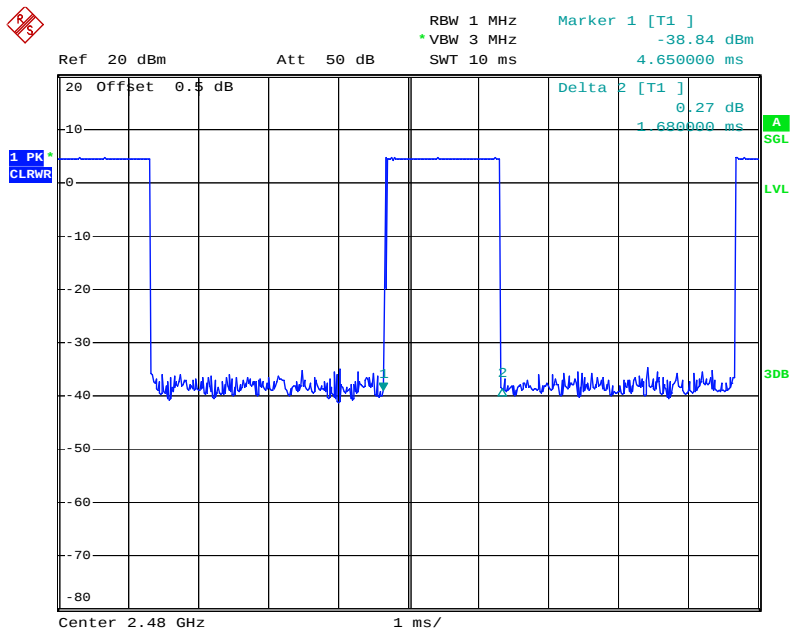
Date: 30.JUN.2014 13:54:12

DH3 Middle channel



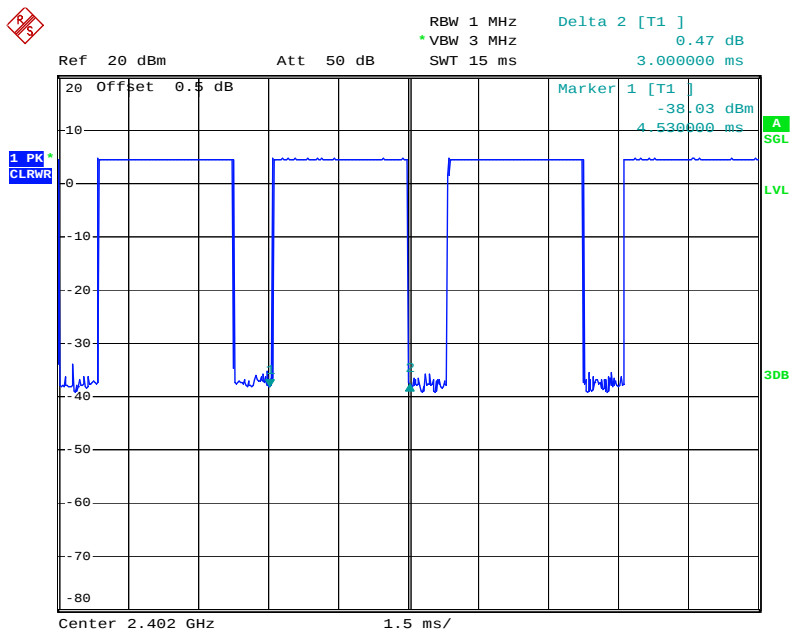
Date: 30.JUN.2014 13:54:51

DH3 High channel



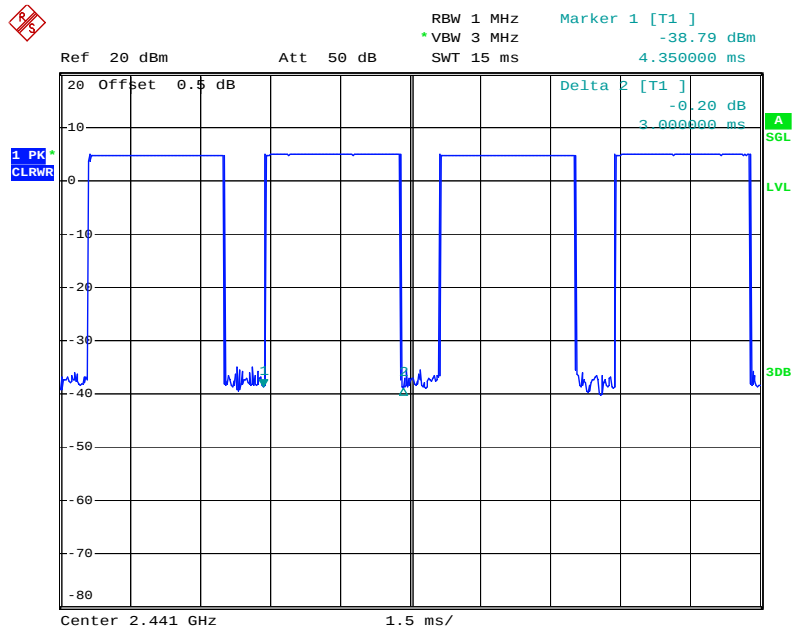
Date: 30.JUN.2014 13:55:28

DH5 Low channel



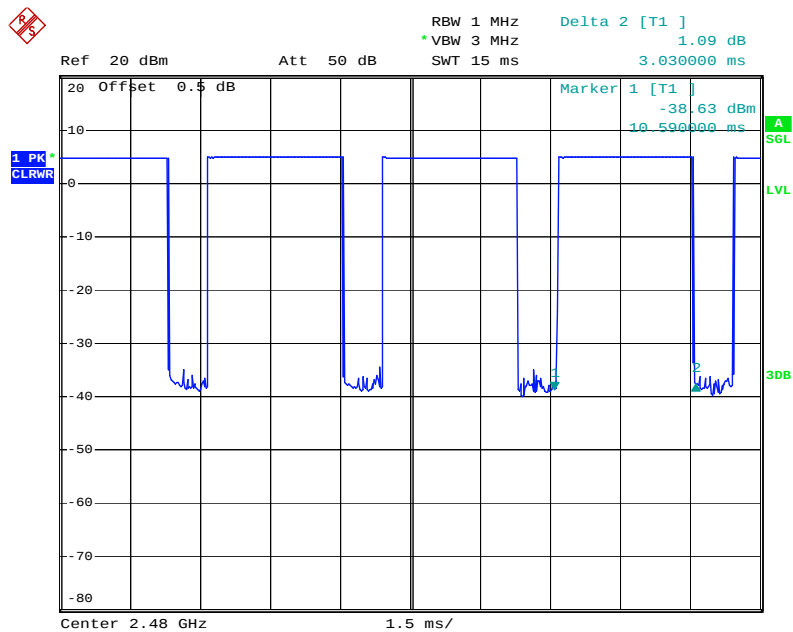
Date: 30.JUN.2014 13:53:14

DH5 Middle channel



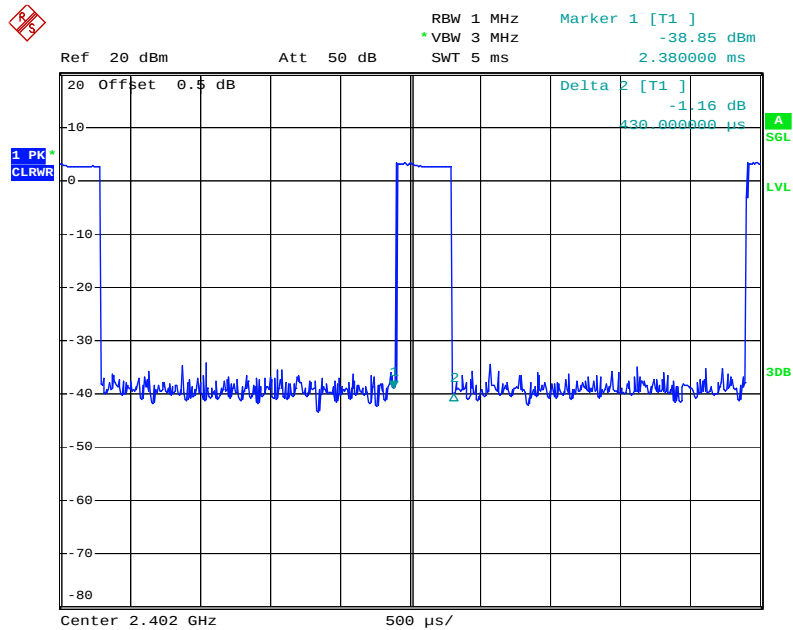
Date: 30.JUN.2014 13:52:43

DH5 High channel



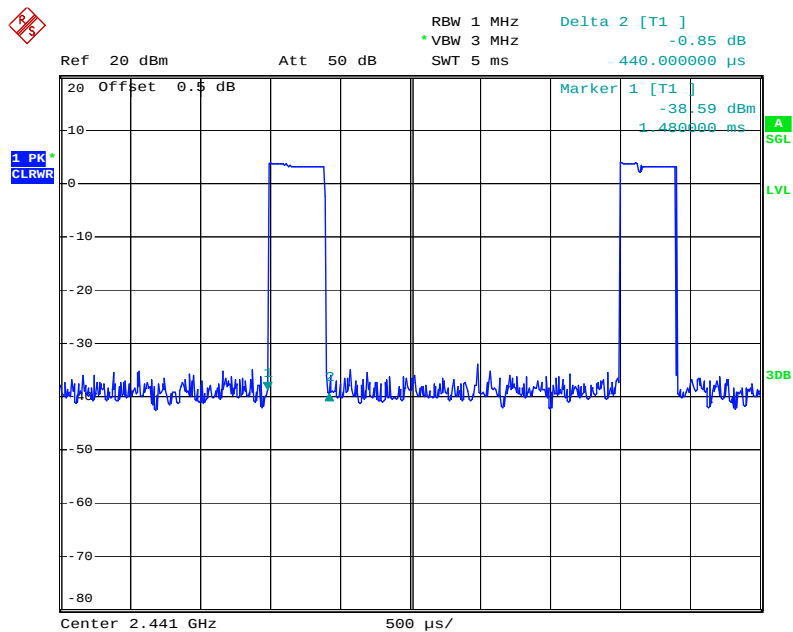
Date: 30.JUN.2014 13:52:03

2DH1 Low channel



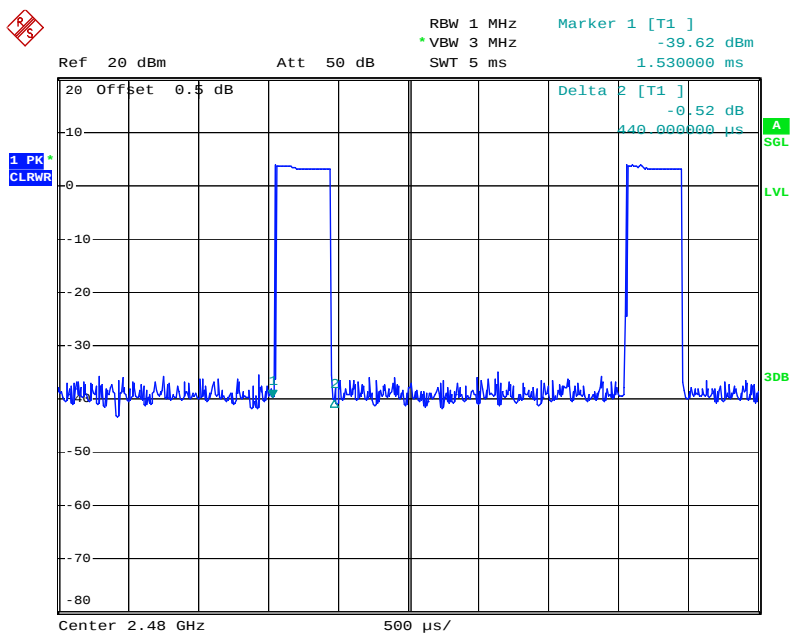
Date: 30.JUN.2014 13:59:21

2DH1 Middle channel



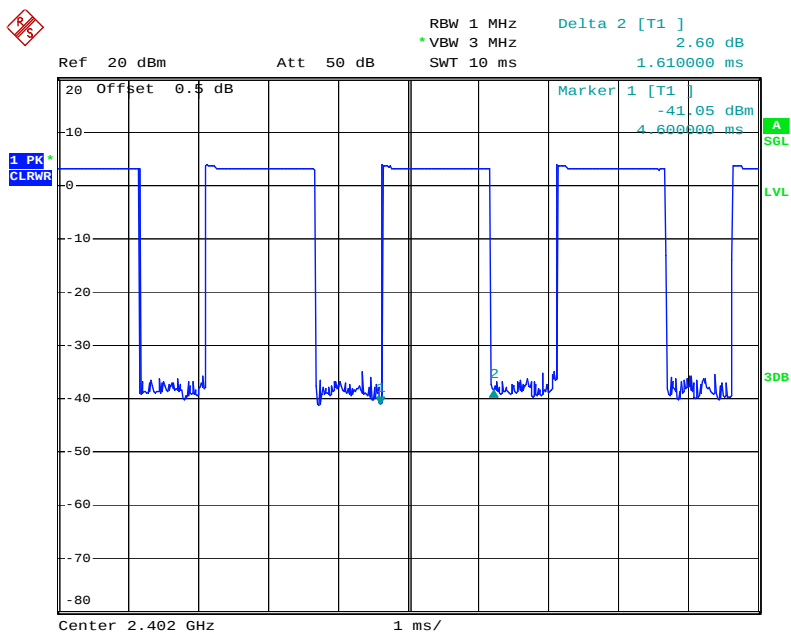
Date: 30.JUN.2014 13:58:22

2DH1 High channel



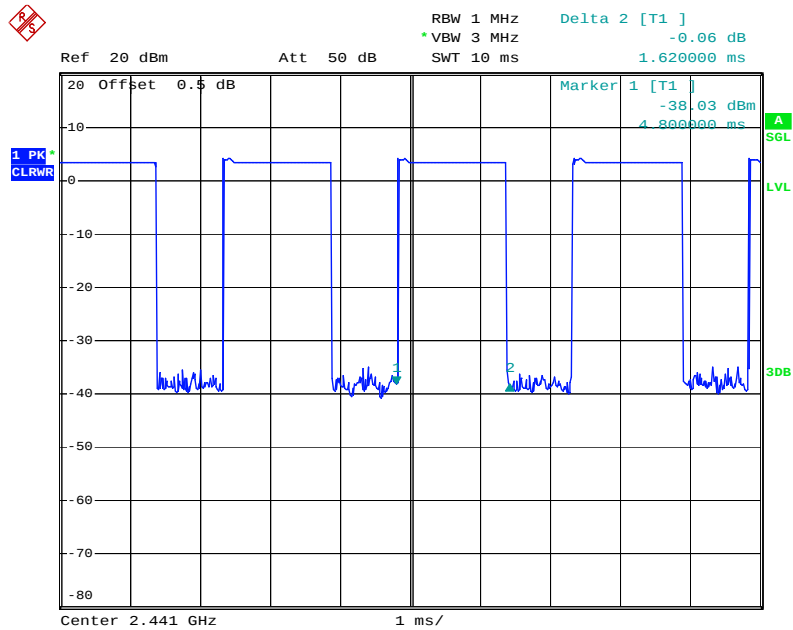
Date: 30.JUN.2014 13:57:40

2DH3 Low channel



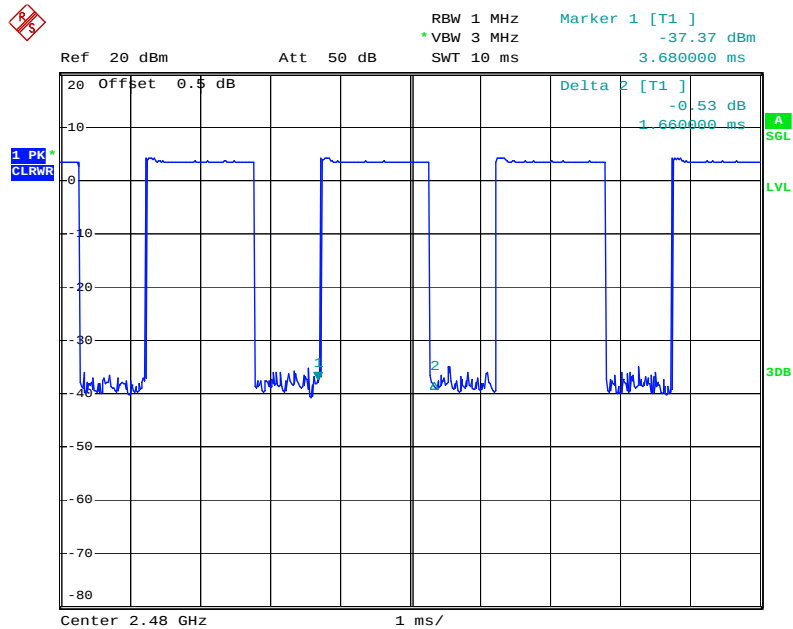
Date: 30.JUN.2014 14:00:23

2DH3 Middle channel



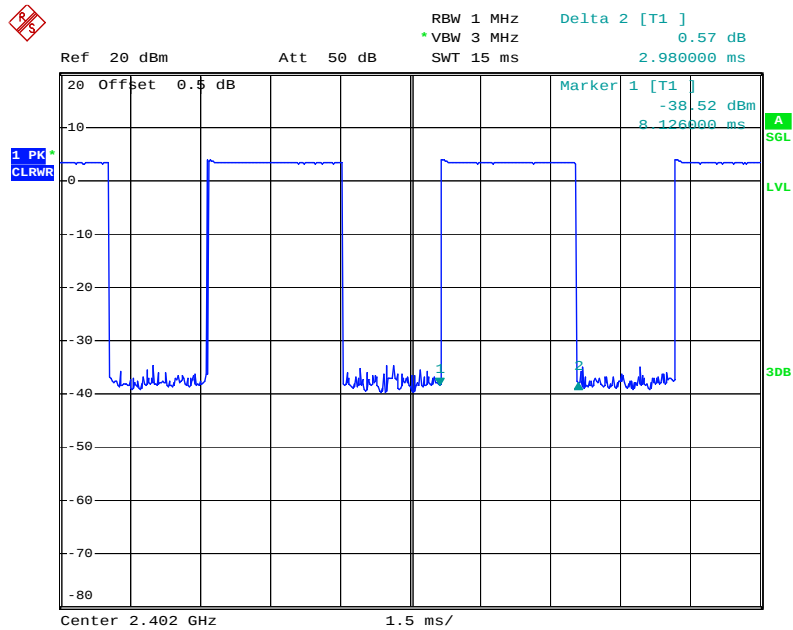
Date: 30.JUN.2014 14:01:05

2DH3 High channel



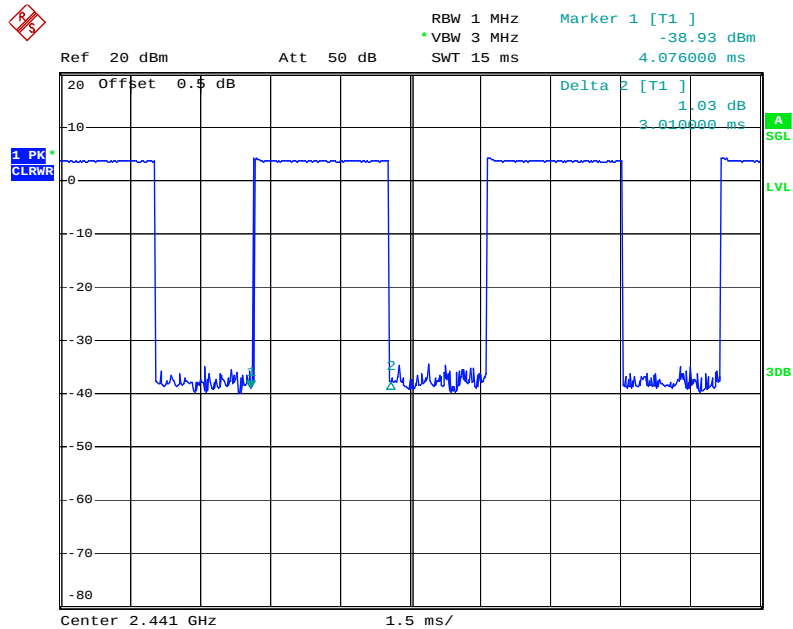
Date: 30.JUN.2014 14:01:41

2DH5 Low channel



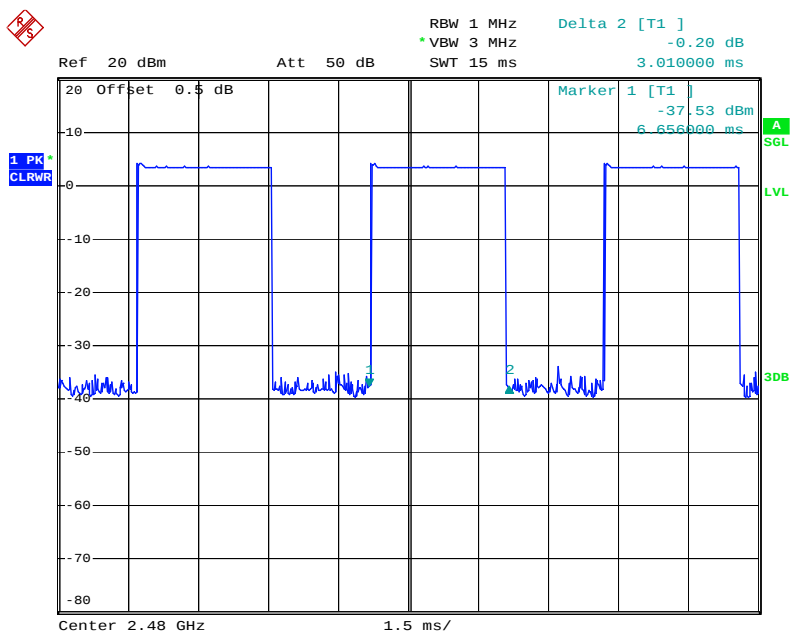
Date: 30.JUN.2014 14:05:14

2DH5 Middle channel



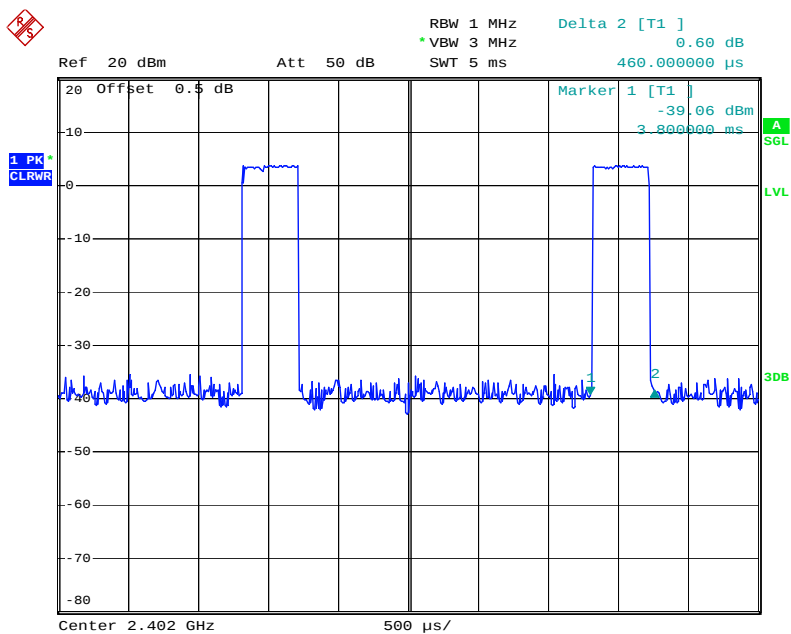
Date: 30.JUN.2014 14:04:42

2DH5 High channel



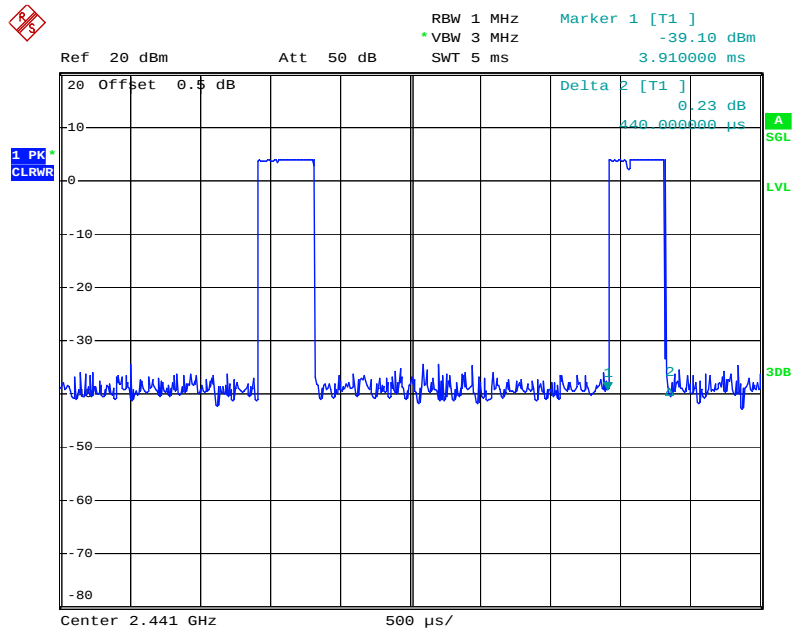
Date: 30.JUN.2014 14:04:12

3DH1 Low channel



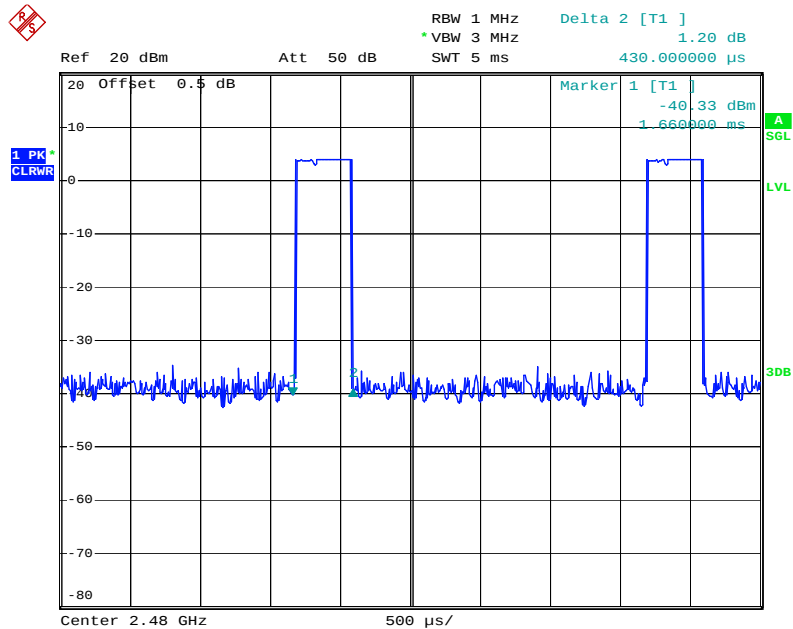
Date: 30.JUN.2014 14:06:27

3DH1 Middle channel



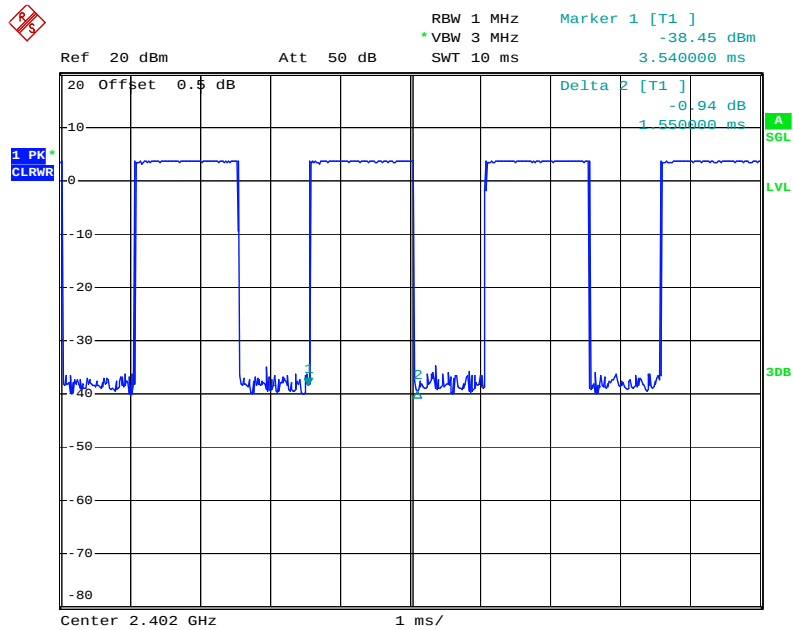
Date: 30.JUN.2014 14:06:56

3DH1 High channel



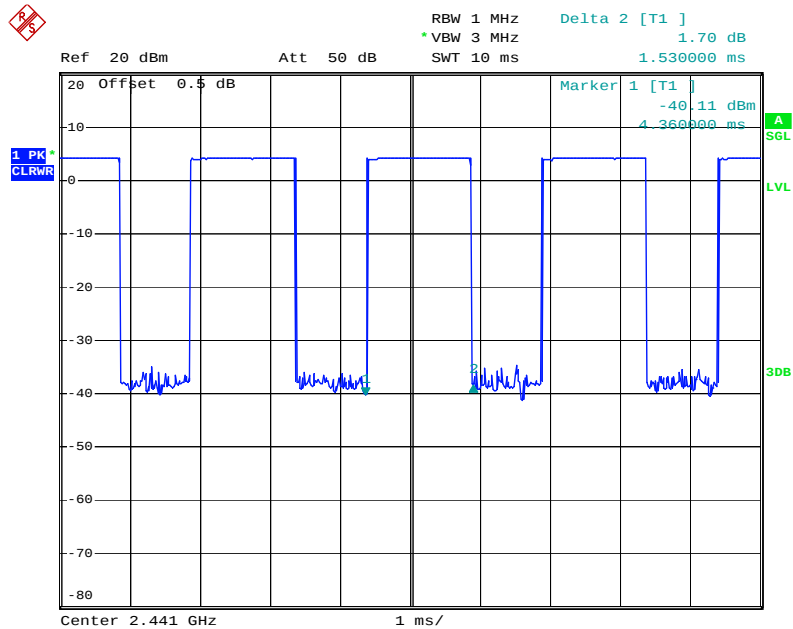
Date: 30.JUN.2014 14:07:27

3DH3 Low channel



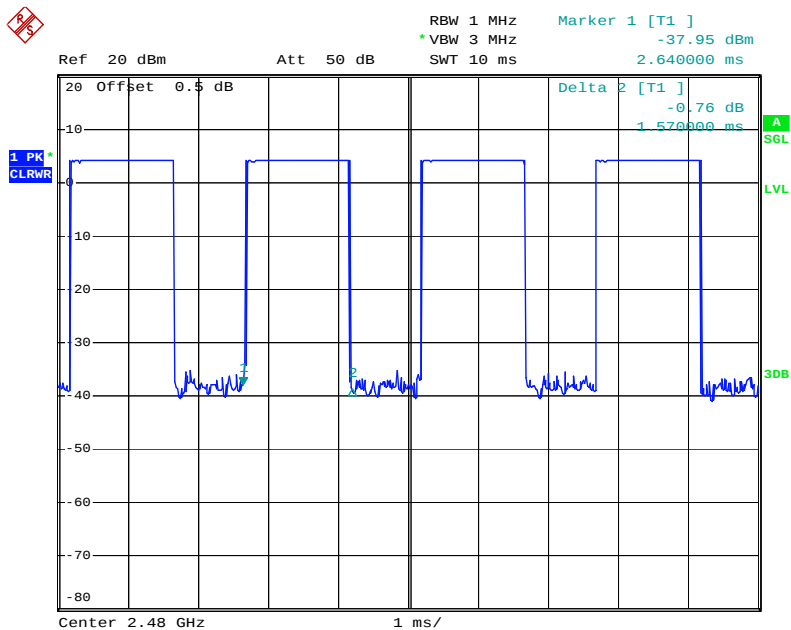
Date: 30.JUN.2014 14:09:54

3DH3 Middle channel



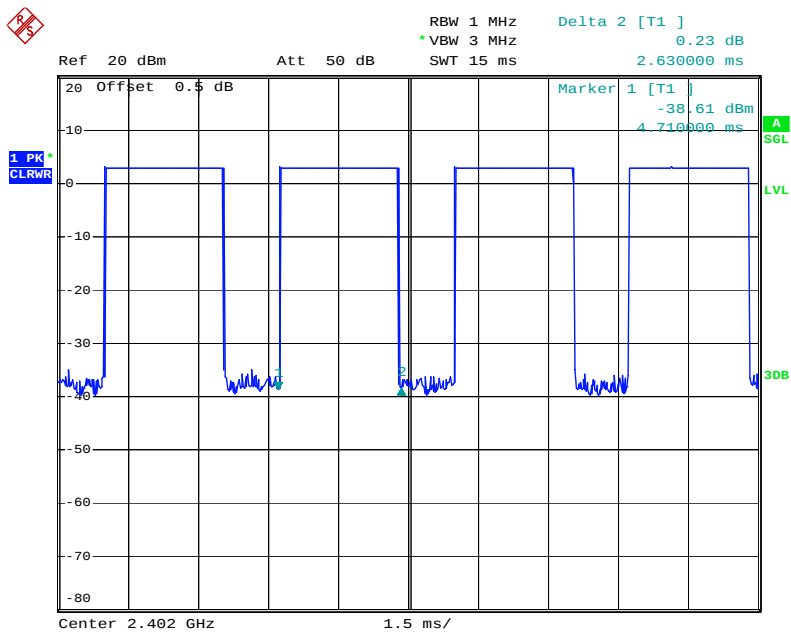
Date: 30.JUN.2014 14:09:22

3DH3 High channel



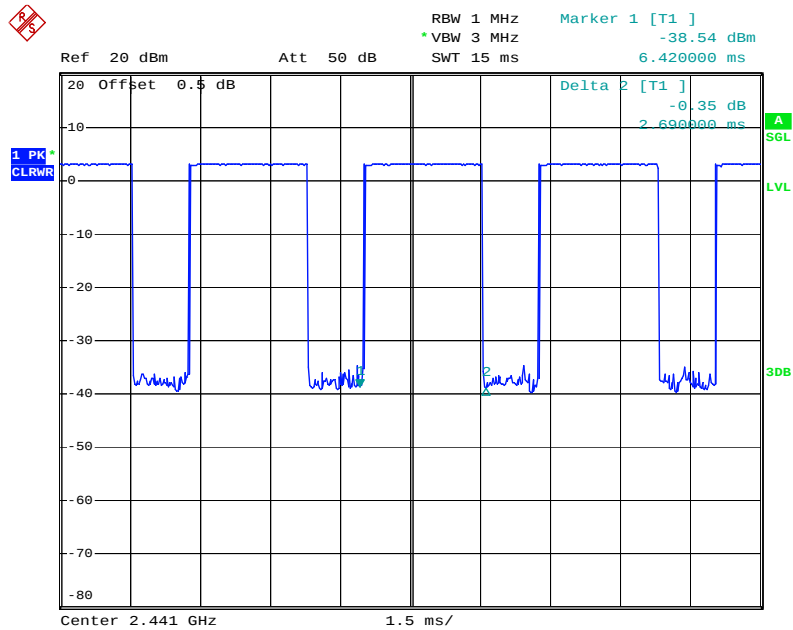
Date: 30.JUN.2014 14:08:54

3DH5 Low channel



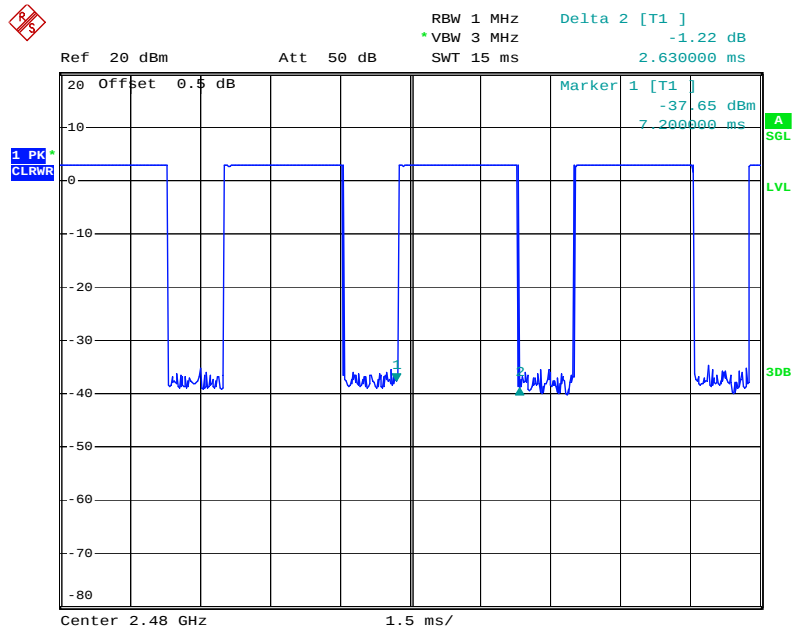
Date: 30.JUN.2014 14:11:24

3DH5 Middle channel



Date: 30.JUN.2014 14:11:58

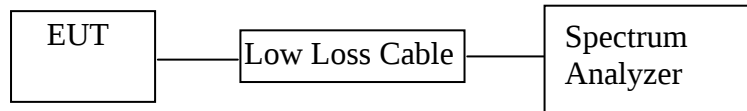
3DH5 High channel



Date: 30.JUN.2014 14:12:30

9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

9.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5. Test Procedure

9.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

9.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz for GFSK mode

9.5.3. Set RBW of spectrum analyzer to 3MHz and VBW to 3MHz for other mode

9.5.4. Measurement the maximum peak output power.

9.6.Test Result

GFSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	5.09/0.003	30 / 1.0
Middle	2441	4.78/0.003	30 / 1.0
High	2480	3.28/0.002	30 / 1.0

Π/4-DQPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	5.41/0.003	21 / 0.125
Middle	2441	5.11/0.003	21 / 0.125
High	2480	3.46/0.002	21 / 0.125

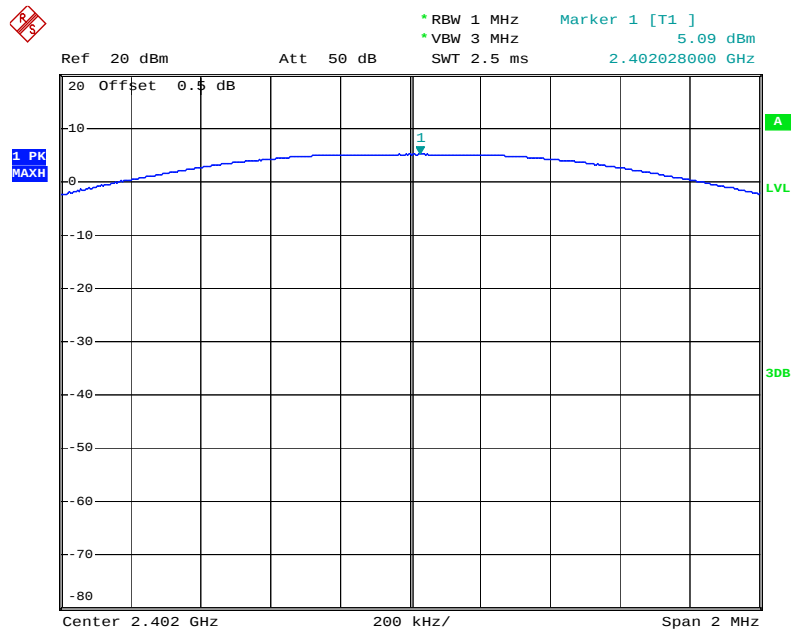
8DPSK Mode

Channel	Frequency (MHz)	Peak Output Power (dBm/W)	Limits dBm / W
Low	2402	4.68/0.003	21 / 0.125
Middle	2441	4.50/0.003	21 / 0.125
High	2480	3.03/0.002	21 / 0.125

The spectrum analyzer plots are attached as below.

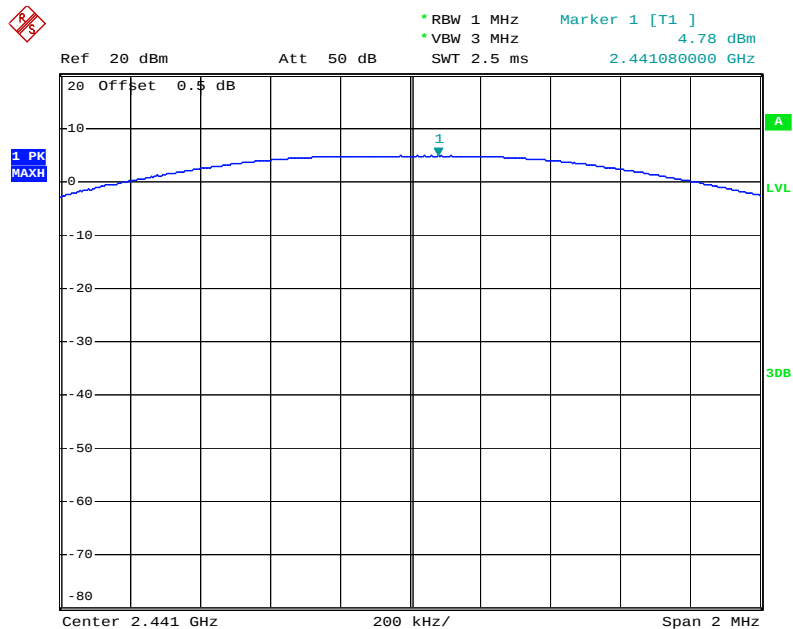
GFSK Mode

Low channel



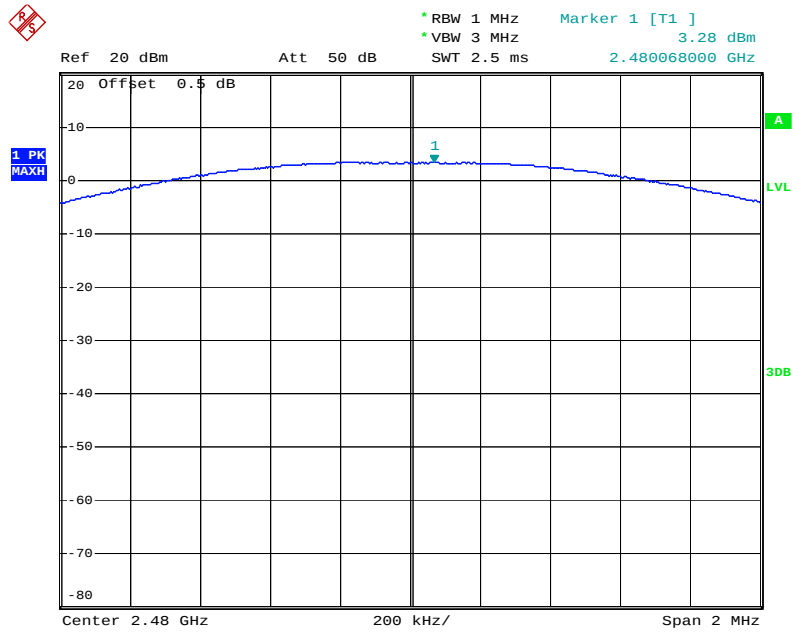
Date: 30.JUN.2014 10:57:28

Middle channel



Date: 30.JUN.2014 10:58:03

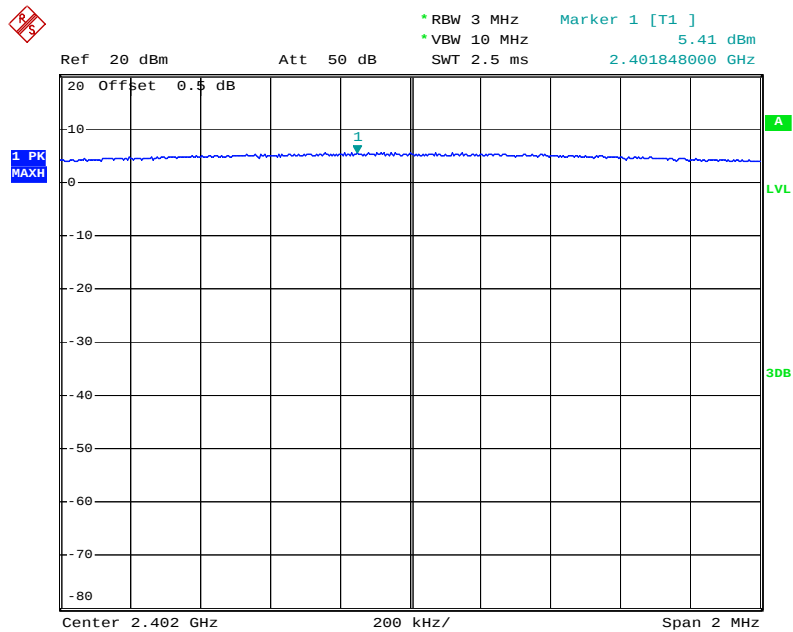
High channel



Date: 30.JUN.2014 10:58:33

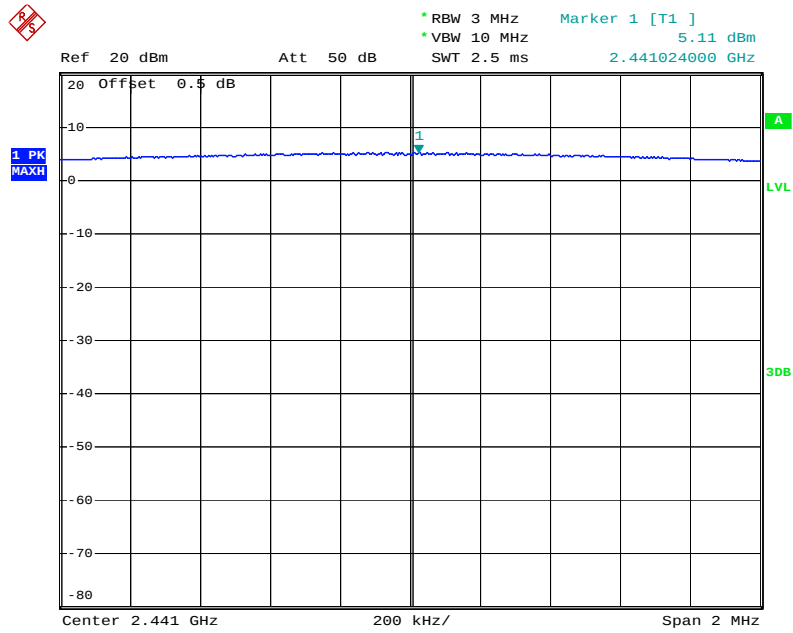
Π/4-DQPSK Mode

Low channel



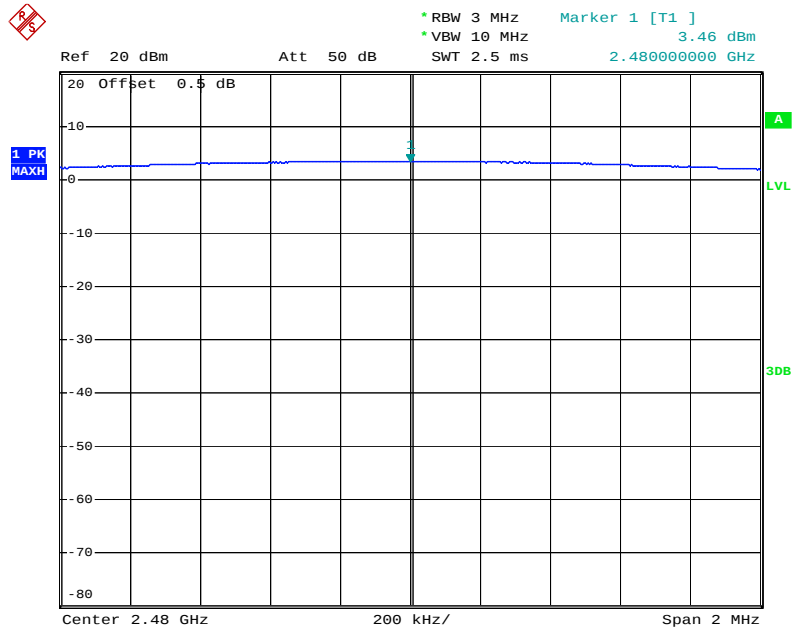
Date: 30.JUN.2014 10:51:29

Middle channel



Date: 30.JUN.2014 10:51:53

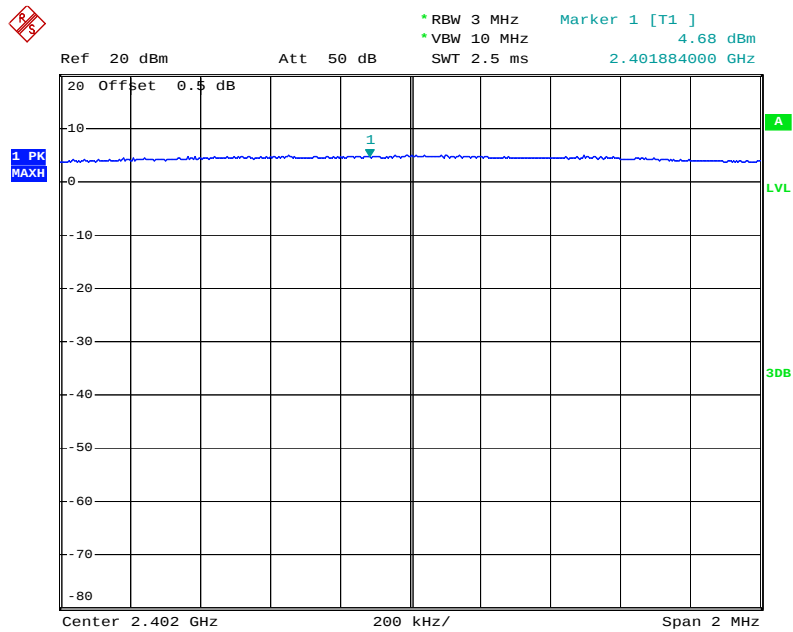
High channel



Date: 30.JUN.2014 10:55:06

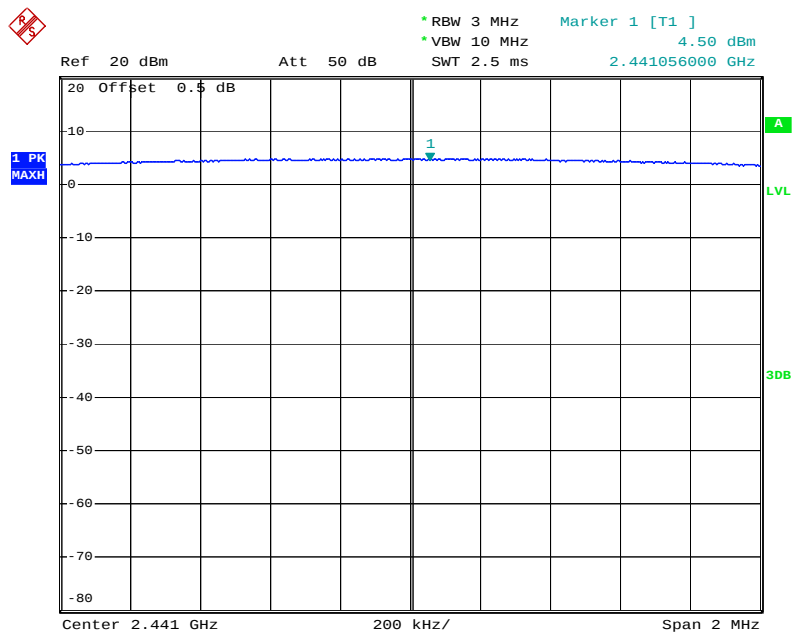
8DPSK Mode

Low channel



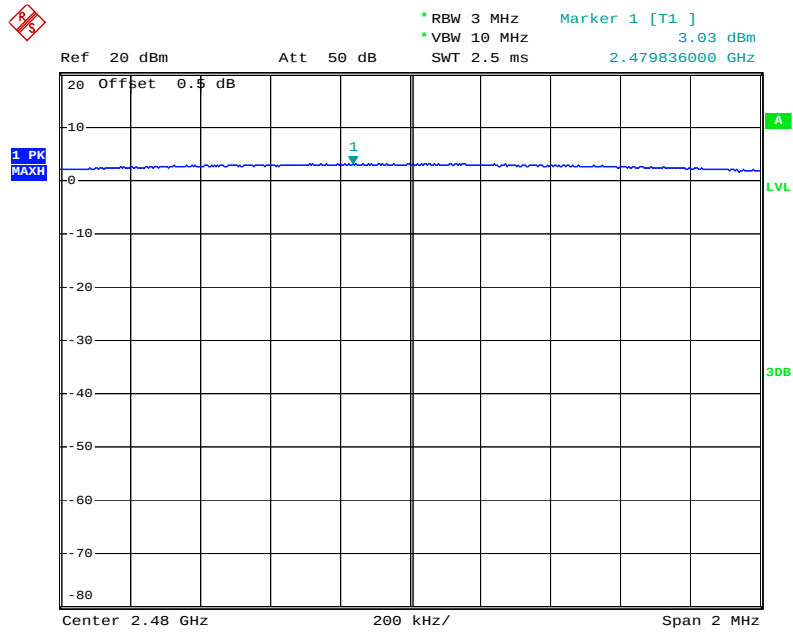
Date: 30.JUN.2014 10:56:46

Middle channel



Date: 30.JUN.2014 10:56:18

High channel



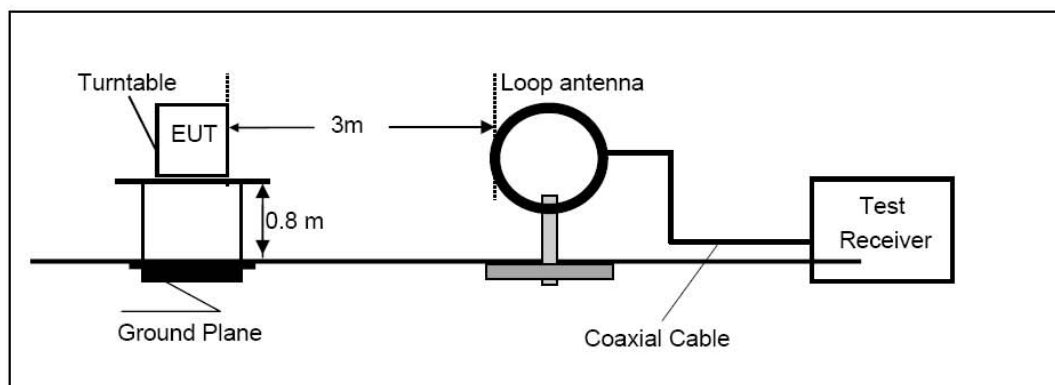
Date: 30.JUN.2014 10:55:41

10.RADIATED EMISSION TEST

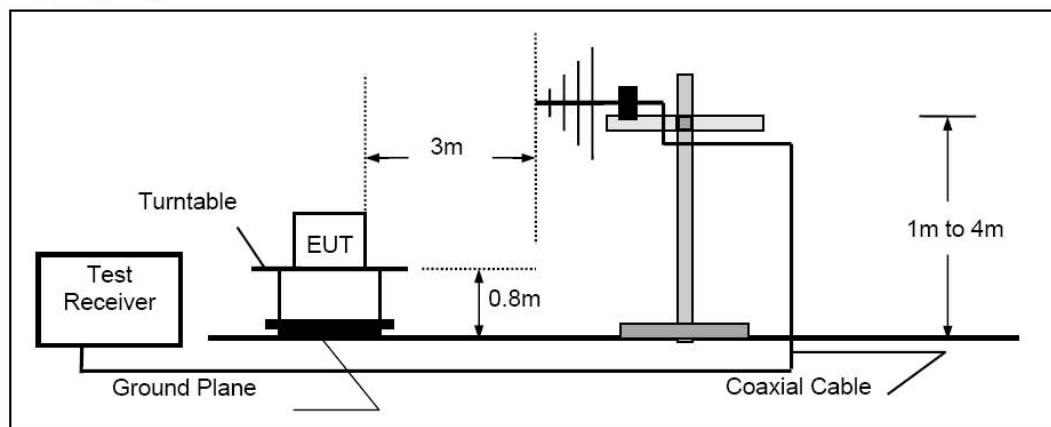
10.1.Block Diagram of Test Setup

Radiated Emission Test Set-Up

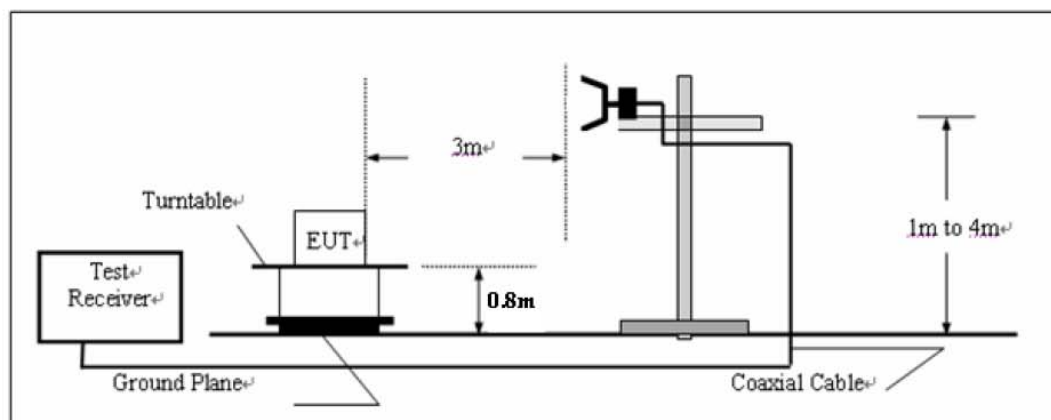
Frequency range 9KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



10.2.The Limit For Section 15.247(d)

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 a radiated 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, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2441MHz, and 2479MHz TX frequency to transmit.

10.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector. When average radiated emissions measurements are specified there is also a limit on the peak emissions level which is 20 dB above the applicable maximum permitted average emission limit

A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth for average detection(AV) at below at frequency above 1GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution Bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

10.7.The Field Strength of Radiation Emission Measurement Results

Note: 1.We tested GFSK mode, $\pi/4$ -DQPSK Mode & 8DPSK mode and recorded the worst case data (GFSK mode) for all test mode.

2. The 18-25GHz emissions are not reported, because the levels are too low against the limit.

Below 1GHz



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

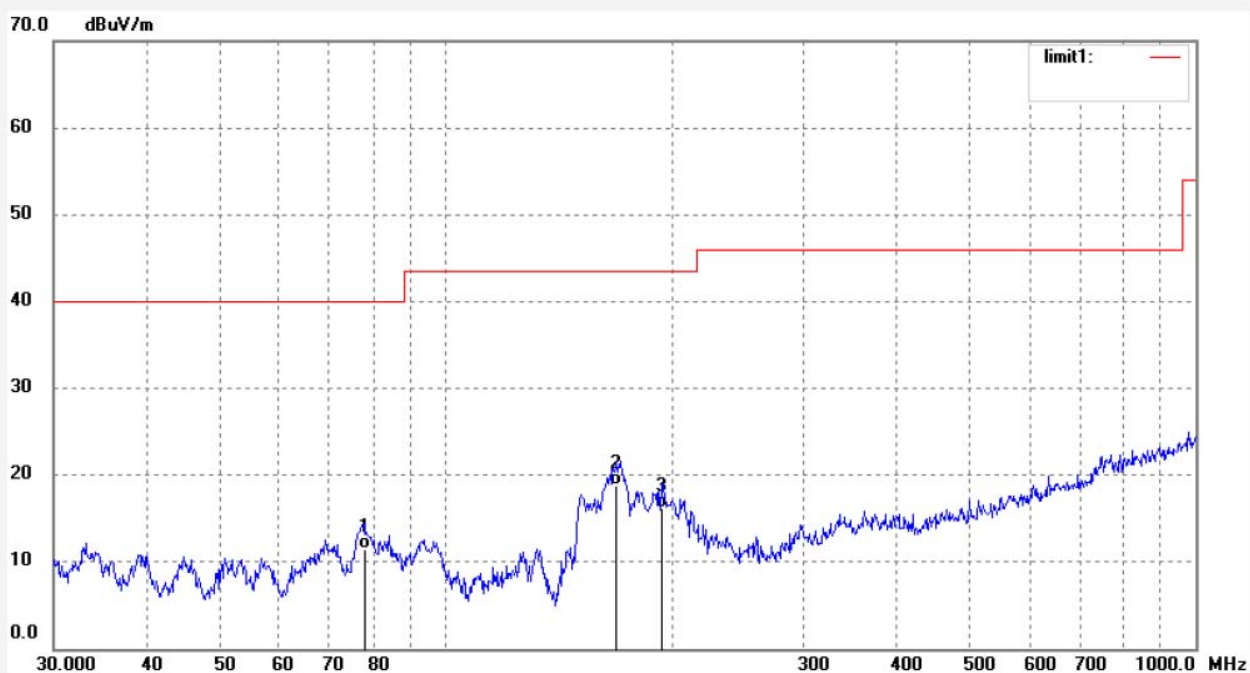
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #4601
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 4 inch 3G Tablet
Mode: TX 2402MHz
Model: ICE
Manufacturer: IMC

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 14/06/28/
Time: 8/52/52
Engineer Signature:
Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	77.8653	32.95	-21.49	11.46	40.00	-28.54	QP			
2	169.0054	40.65	-21.90	18.75	43.50	-24.75	QP			
3	194.4533	36.82	-20.55	16.27	43.50	-27.23	QP			

Job No.: alen #4600

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

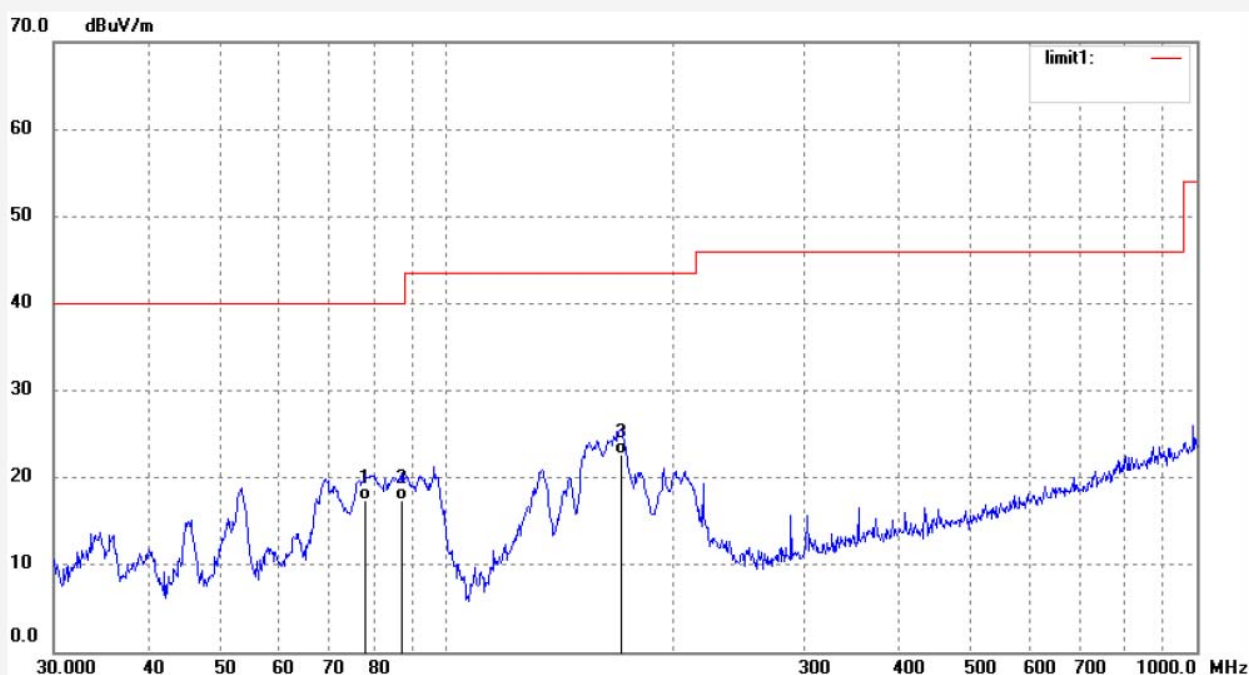
Date: 14/06/28/

Time: 8/51/40

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	77.8653	38.98	-21.49	17.49	40.00	-22.51	QP			
2	87.4176	39.01	-21.61	17.40	40.00	-22.60	QP			
3	170.7925	44.57	-21.88	22.69	43.50	-20.81	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #4602

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2441MHz

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

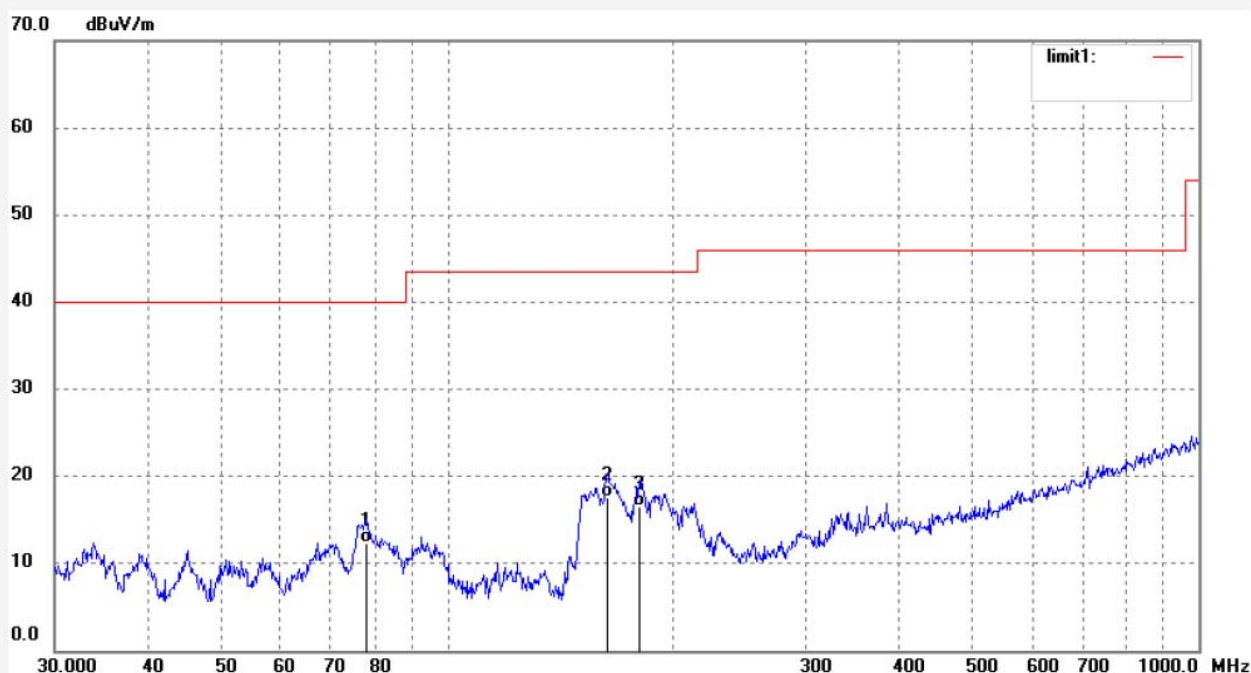
Date: 14/06/28/

Time: 8/54/03

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	78.1389	33.78	-21.47	12.31	40.00	-27.69	QP			
2	163.1818	40.10	-22.52	17.58	43.50	-25.92	QP			
3	180.0165	38.41	-21.85	16.56	43.50	-26.94	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #4603

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2441MHz

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

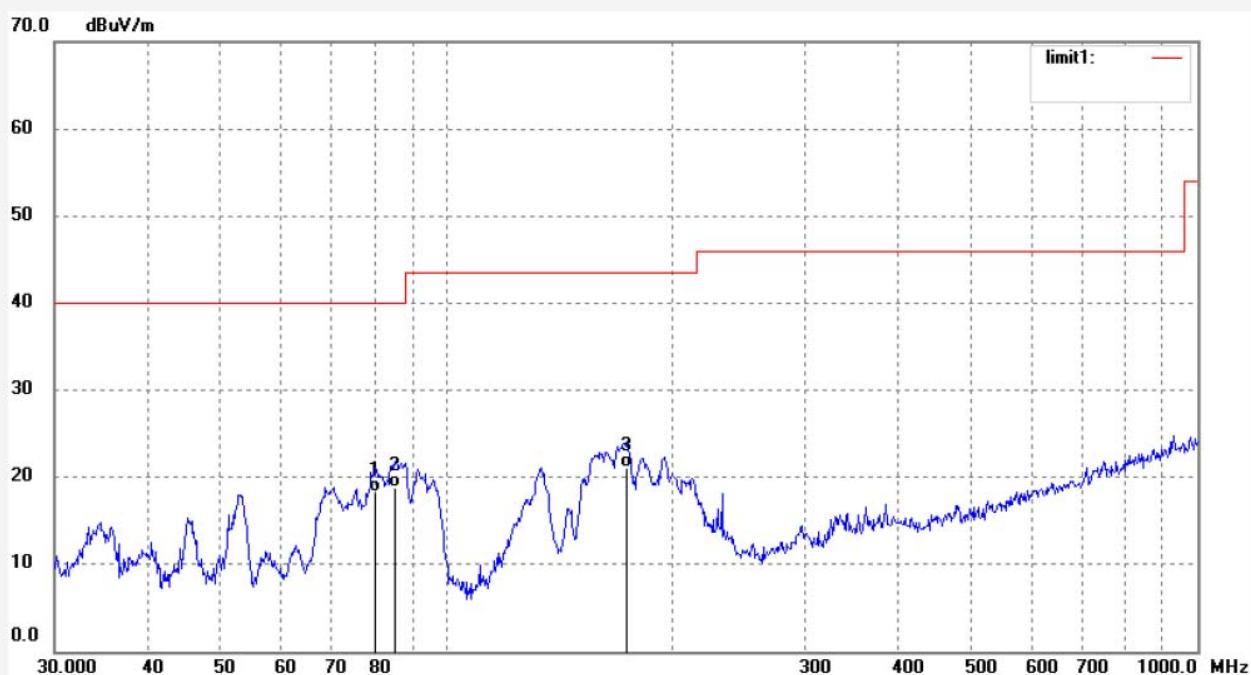
Date: 14/06/28/

Time: 8/54/56

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	80.3619	39.69	-21.40	18.29	40.00	-21.71	QP			
2	85.2980	40.28	-21.55	18.73	40.00	-21.27	QP			
3	173.8135	43.35	-22.20	21.15	43.50	-22.35	QP			



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Job No.: alen #4605

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

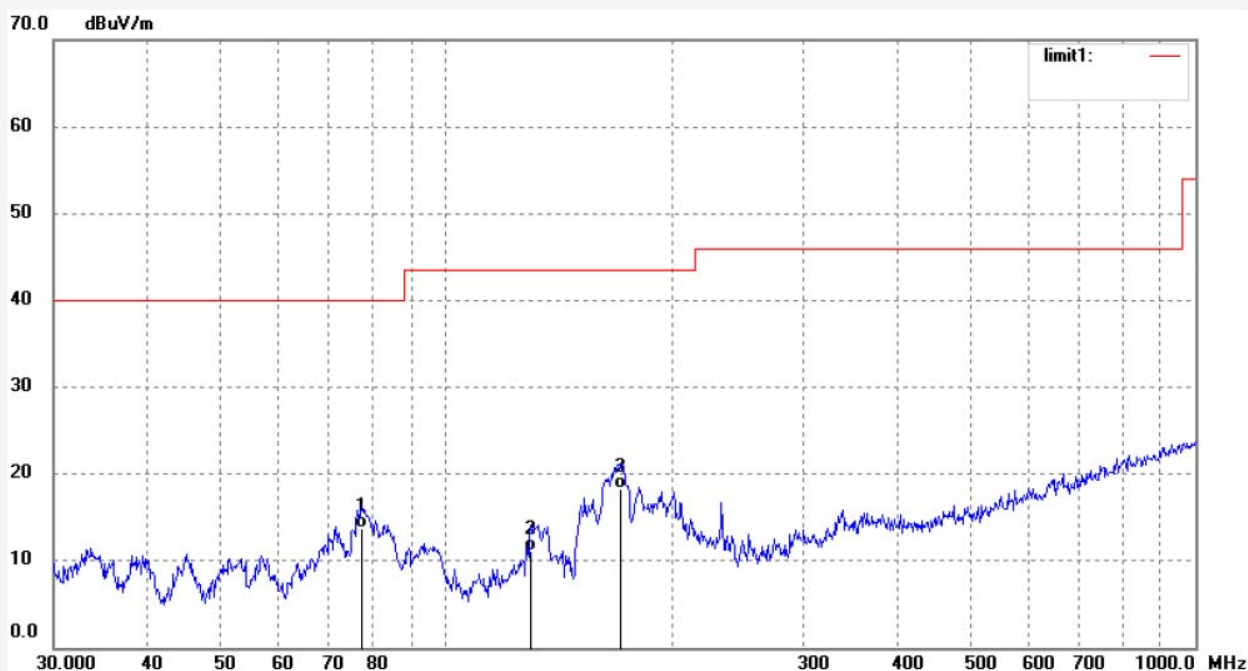
Date: 14/06/28/

Time: 8/56/46

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	77.3212	35.18	-21.51	13.67	40.00	-26.33	QP			
2	129.9225	34.21	-23.03	11.18	43.50	-32.32	QP			
3	171.3925	40.18	-21.94	18.24	43.50	-25.26	QP			

Job No.: alen #4604

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

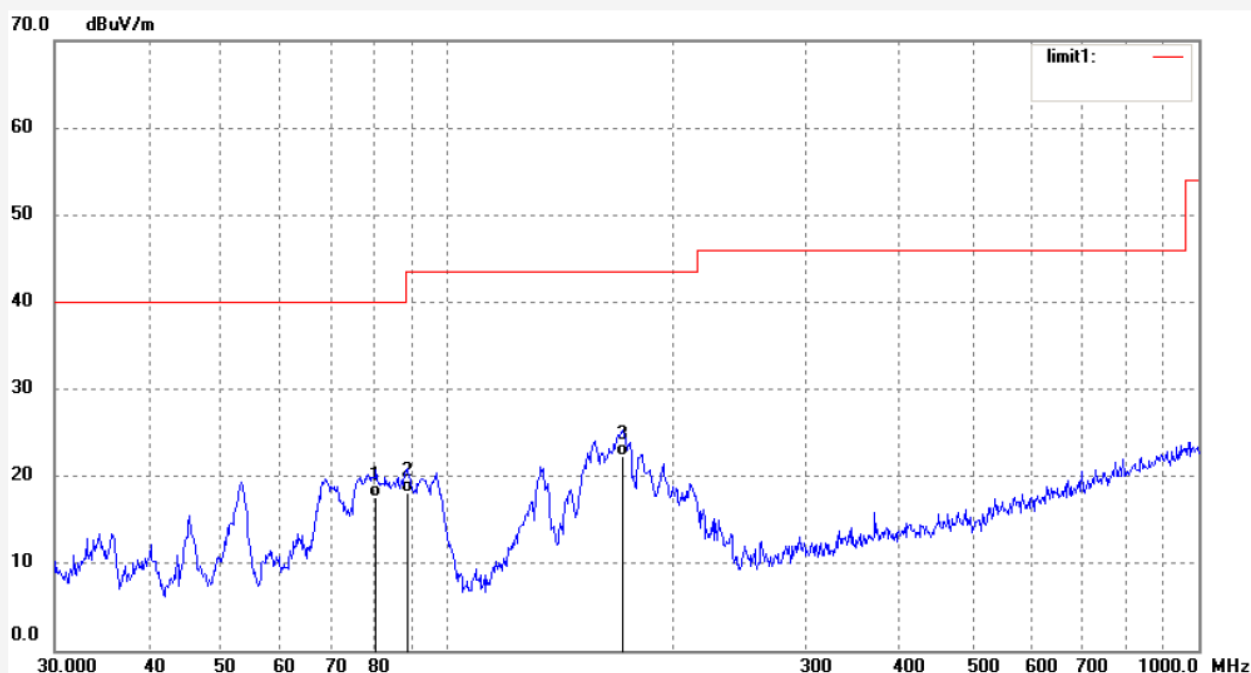
Date: 14/06/28/

Time: 8/55/23

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	80.3619	39.01	-21.40	17.61	40.00	-22.39	QP			
2	88.3421	39.68	-21.65	18.03	43.50	-25.47	QP			
3	170.7923	44.21	-21.88	22.33	43.50	-21.17	QP			

Above 1GHz



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Job No.: alen #4570

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

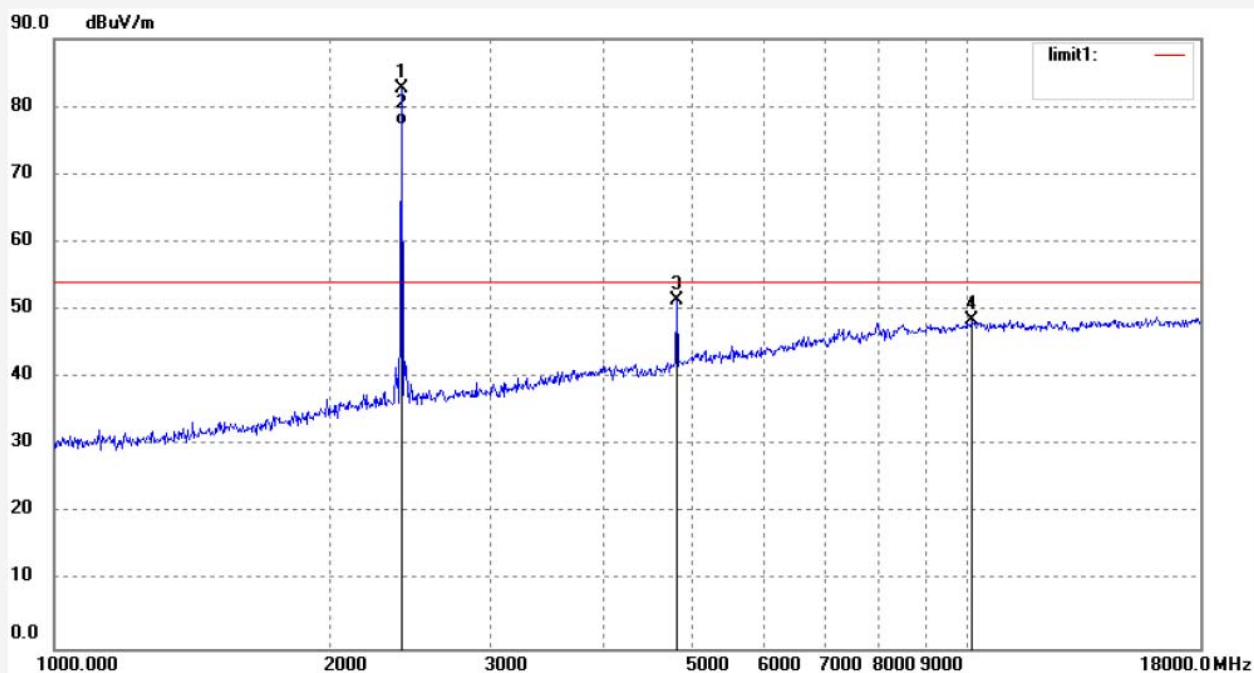
Date: 14/06/25/

Time: 11/38/24

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.753	89.39	-6.76	82.63			peak			
2	2400.753	84.01	-6.76	77.25			AVG			
3	4804.110	52.91	-1.59	51.32	74.00	-22.68	peak			
4	10126.824	43.20	5.34	48.54	74.00	-25.46	peak			

Job No.: alen #4571

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

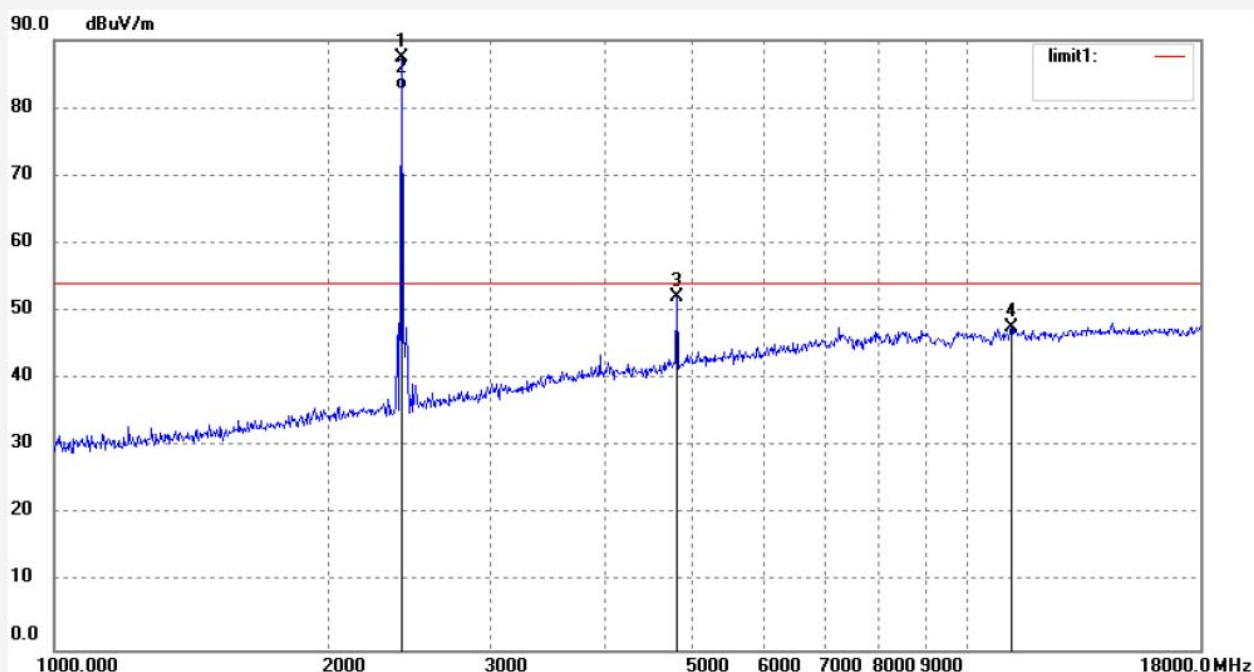
Date: 14/06/25/

Time: 11/40/23

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.753	94.14	-6.76	87.38			peak			
2	2400.753	89.39	-6.76	82.63			AVG			
3	4804.110	53.61	-1.59	52.02	74.00	-21.98	peak			
4	11172.556	41.97	5.69	47.66	74.00	-26.34	peak			

Job No.: alen #4569

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2441MHz

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

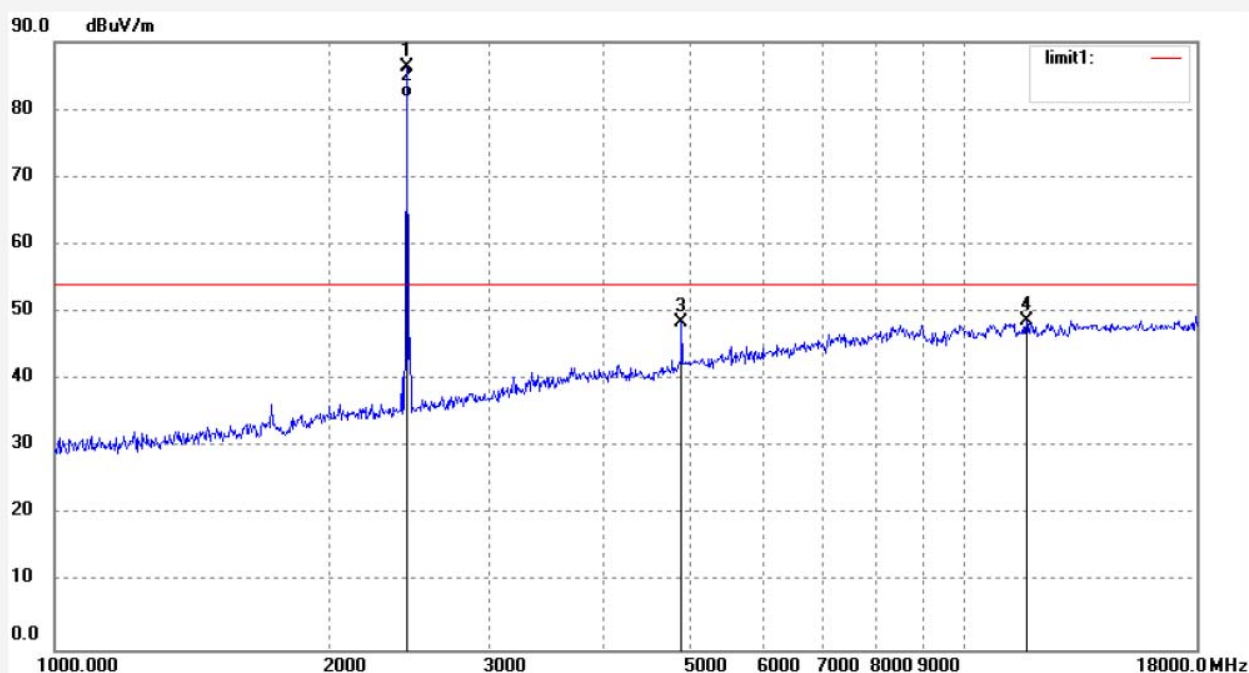
Date: 14/06/25/

Time: 11/36/27

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.751	93.03	-6.64	86.39			peak			
2	2442.751	88.41	-6.64	81.77			AVG			
3	4888.151	49.86	-1.33	48.53	74.00	-25.47	peak			
4	11701.375	42.51	6.23	48.74	74.00	-25.26	peak			

Job No.: alen #4568

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2441MHz

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

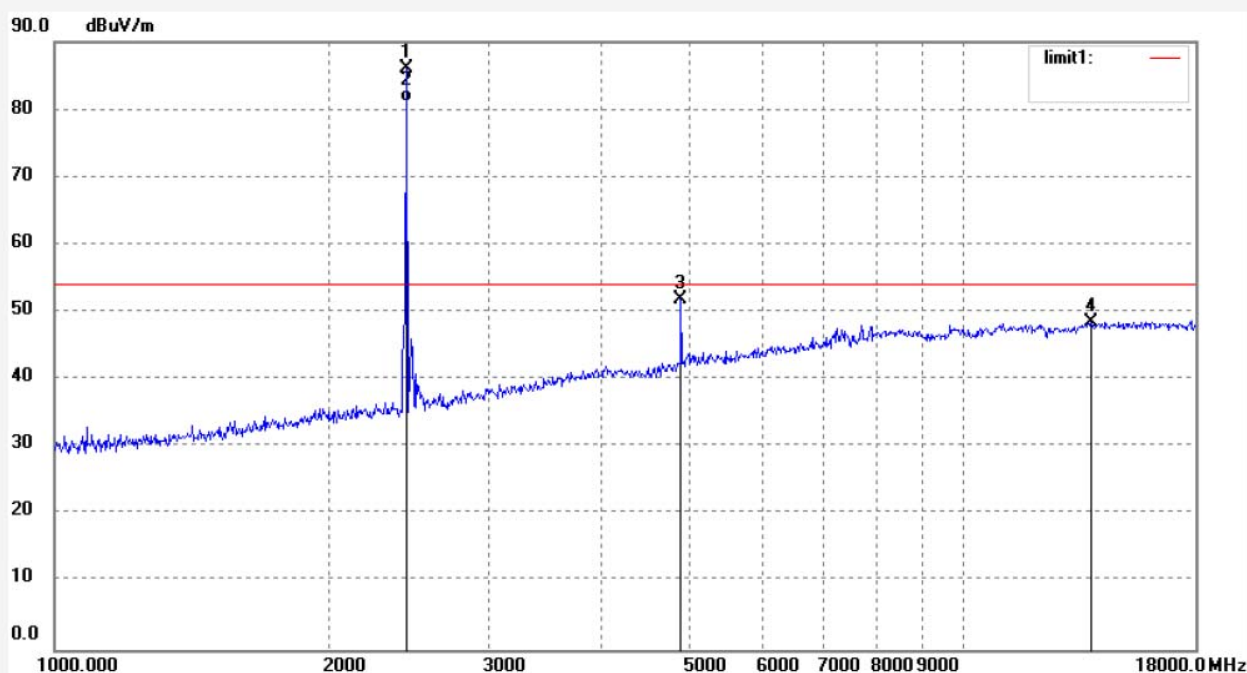
Date: 14/06/25/

Time: 11/32/00

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.751	92.67	-6.64	86.03			peak			
2	2442.751	87.77	-6.64	81.13			AVG			
3	4888.151	53.24	-1.33	51.91	74.00	-22.09	peak			
4	13797.088	38.57	9.87	48.44	74.00	-25.56	peak			

Job No.: alen #4566

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

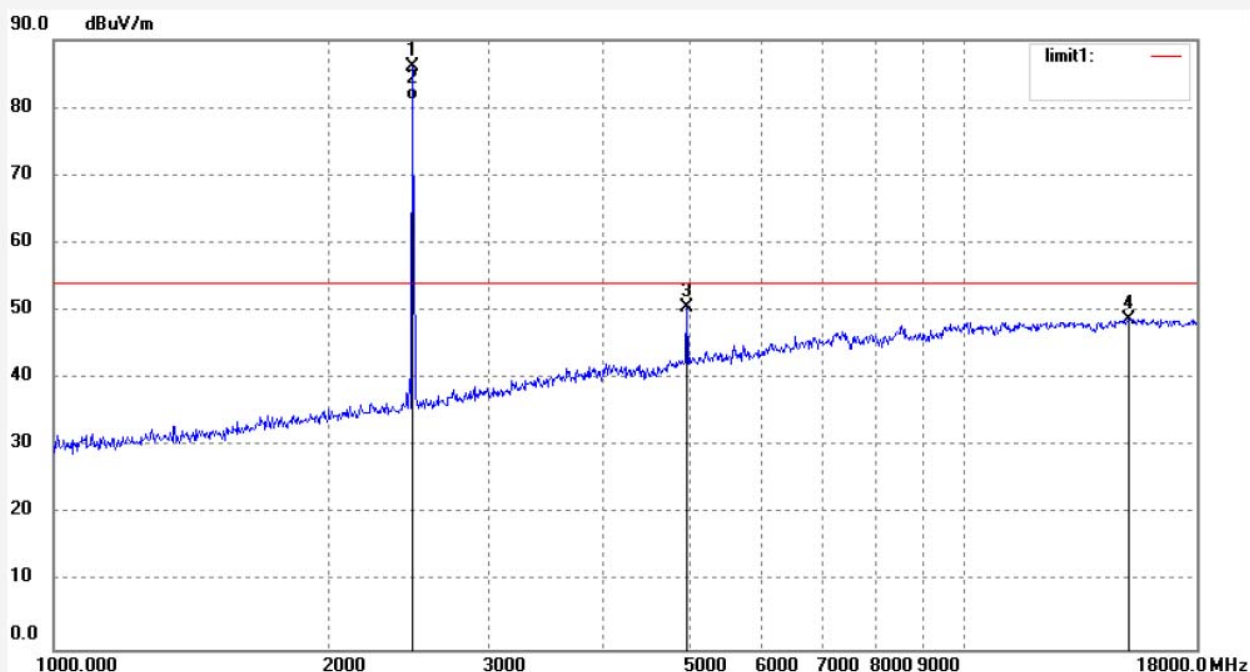
Date: 14/06/25/

Time: 11/29/05

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2478.310	92.67	-6.56	86.11			peak			
2	2478.310	87.68	-6.56	81.12			AVG			
3	4959.307	51.58	-1.12	50.46	74.00	23.54	peak			
4	15177.891	37.17	11.63	48.80	74.00	-25.20	peak			



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Job No.: alen #4567

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

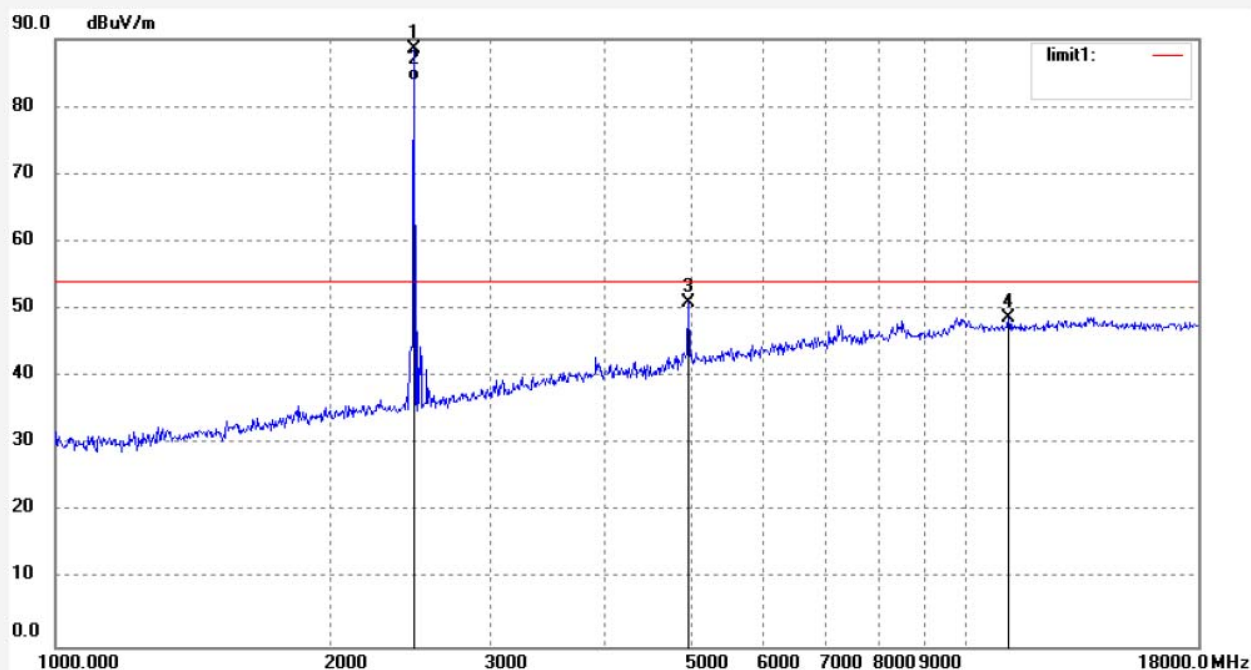
Date: 14/06/25/

Time: 11/30/19

Engineer Signature:

Distance: 3m

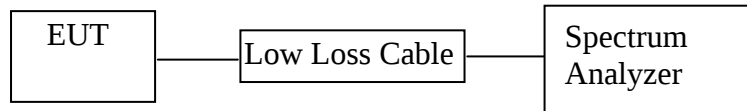
Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2478.310	95.08	-6.56	88.52			peak			
2	2478.310	90.38	-6.56	83.82			AVG			
3	4959.307	52.00	-1.12	50.88	74.00	-23.12	peak			
4	11140.310	43.01	5.65	48.66	74.00	-25.34	peak			

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

11.2.The Requirement For Section 15.247(d)

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 a radiated 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, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

11.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

11.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

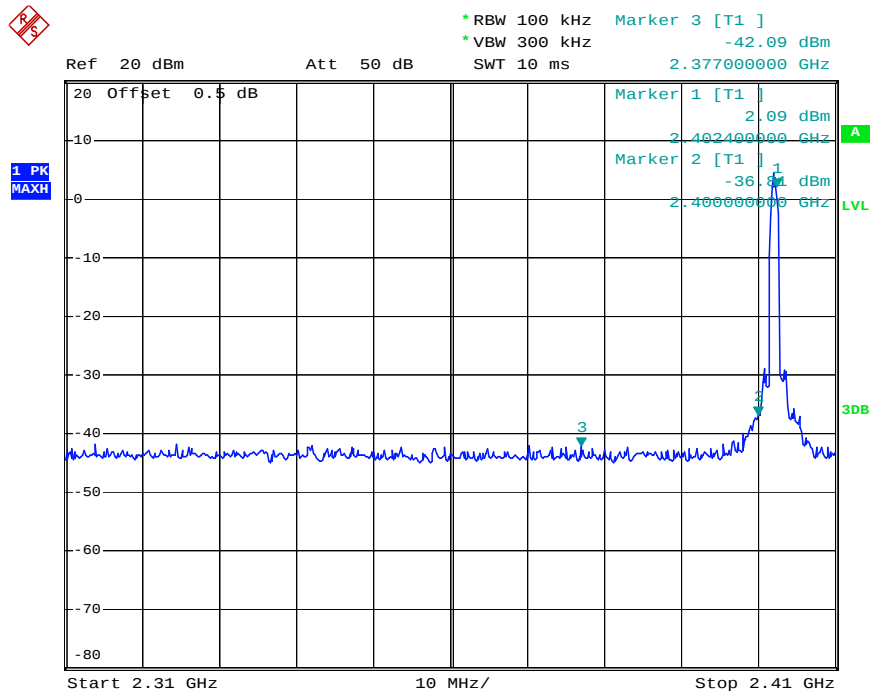
11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3. The band edges was measured and recorded.

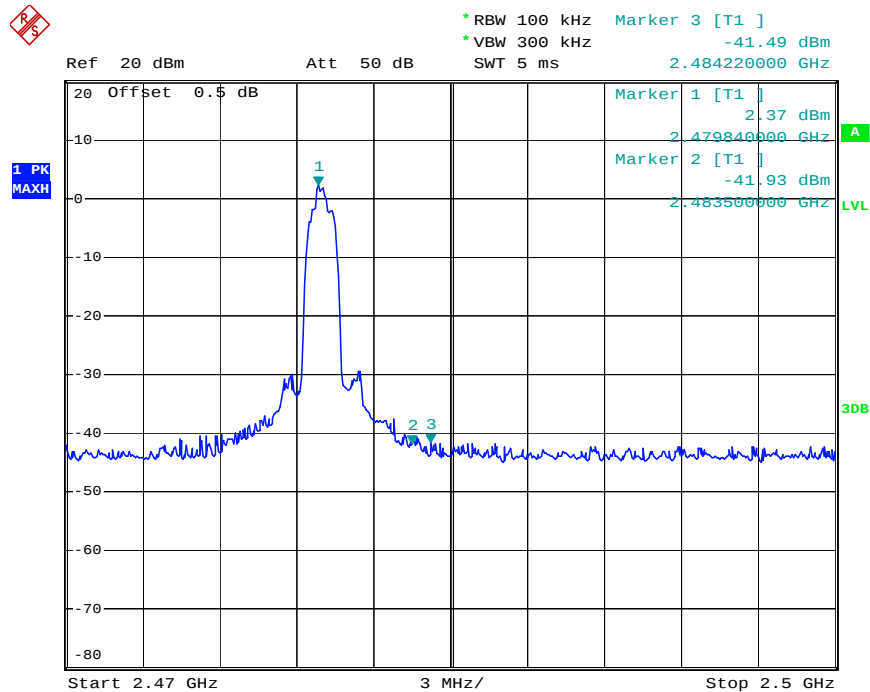
11.6. Test Result

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
GFSK		
2399.942	37.61	> 20dBc
2484.600	55.76	> 20dBc
Π/4-DQPSK Mode		
2399.520	39.75	> 20dBc
2490.400	55.79	> 20dBc
8DPSK		
2398.920	39.62	> 20dBc
2485.300	55.29	> 20dBc

GFSK

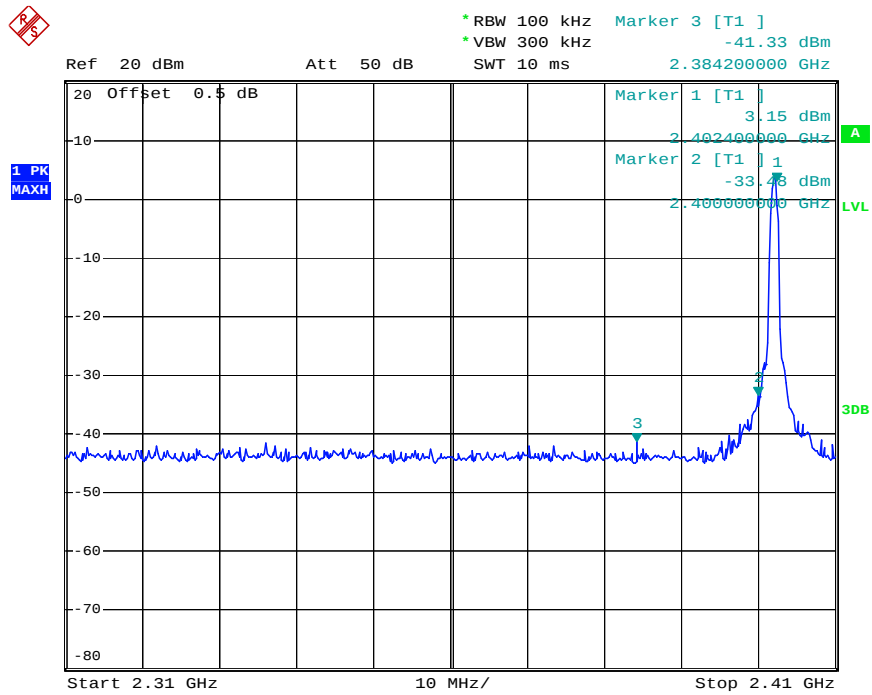


Date: 30.JUN.2014 10:27:17

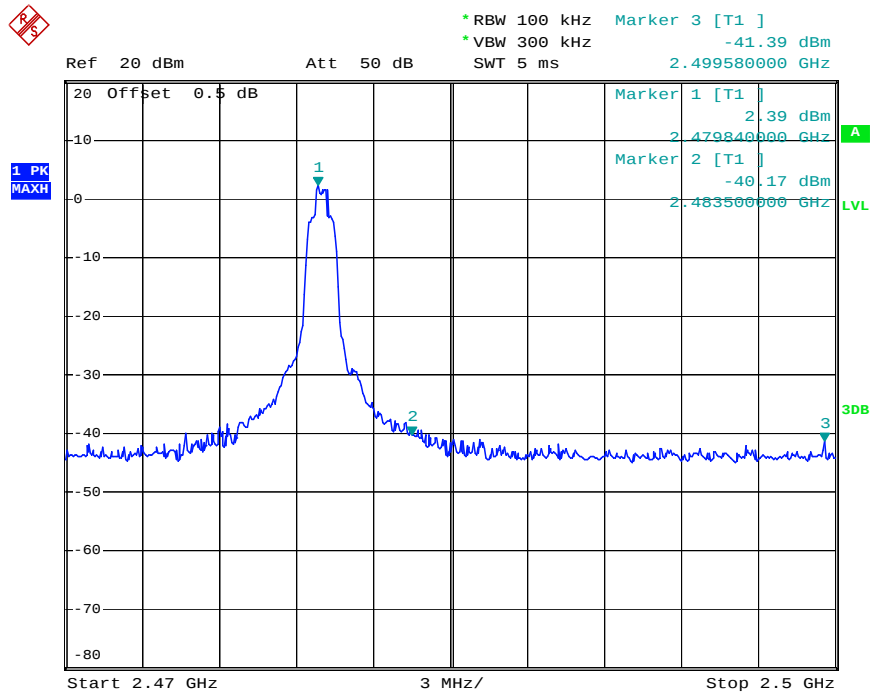


Date: 30.JUN.2014 10:26:01

Π/4-DQPSK Mode

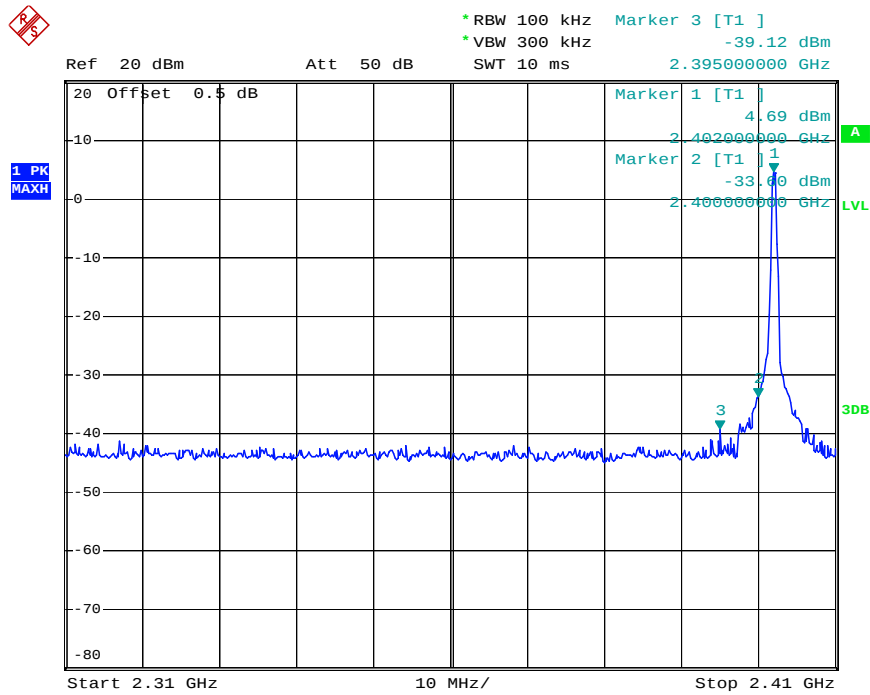


Date: 30.JUN.2014 10:28:18

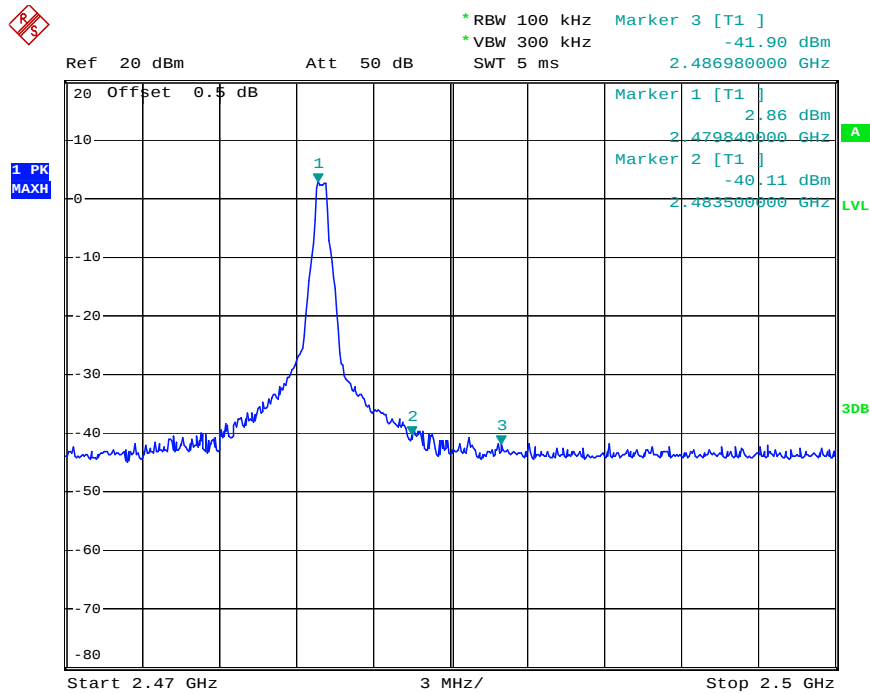


Date: 30.JUN.2014 10:29:38

8DPSK



Date: 30.JUN.2014 10:32:43



Date: 30.JUN.2014 10:31:16

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

3. Display the measurement of peak values.

Non-hopping mode



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Job No.: alen #3604

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz(GFSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

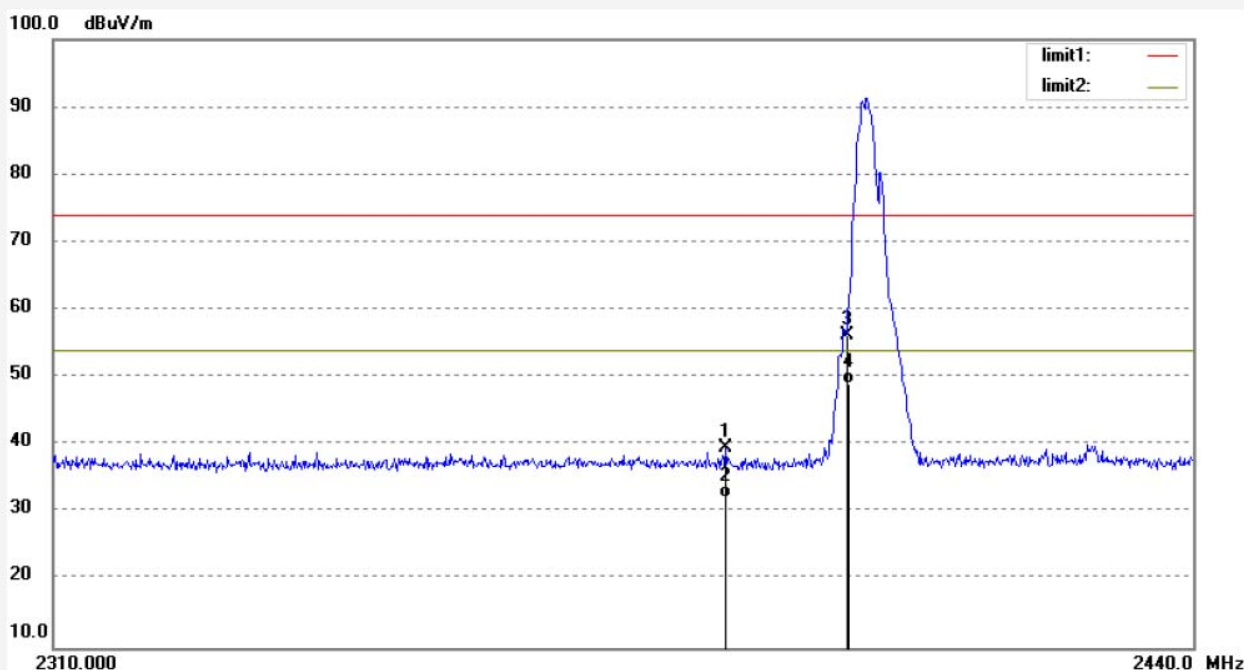
Date: 14/06/25/

Time: 9/53/59

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2385.920	46.35	-6.80	39.55	74.00	-34.45	peak			
2	2385.920	38.87	-6.80	32.07	54.00	-21.93	AVG			
3	2400.000	63.08	-6.76	56.32	74.00	-17.68	peak			
4	2400.000	55.78	-6.76	49.02	54.00	-4.98	AVG			



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Job No.: alen #3604

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz(GFSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

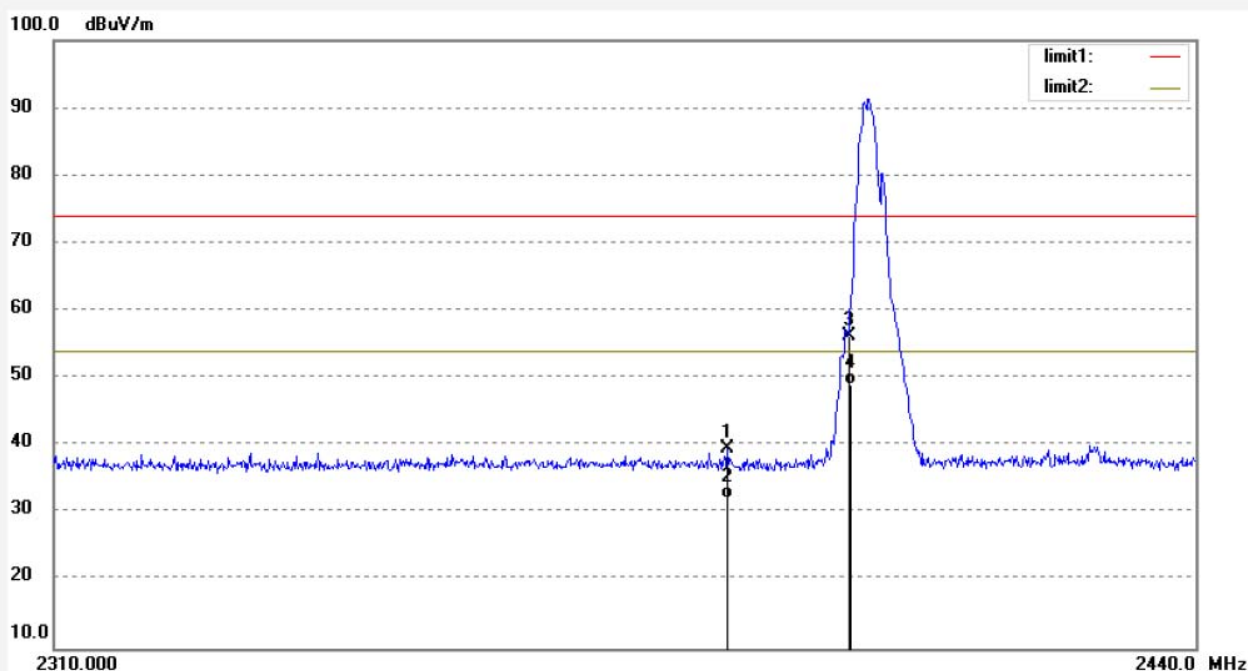
Date: 14/06/25/

Time: 9/53/59

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2385.920	46.35	-6.80	39.55	74.00	-34.45	peak			
2	2385.920	38.87	-6.80	32.07	54.00	-21.93	AVG			
3	2400.000	63.08	-6.76	56.32	74.00	-17.68	peak			
4	2400.000	55.78	-6.76	49.02	54.00	-4.98	AVG			



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Job No.: alen #3602

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz(GFSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

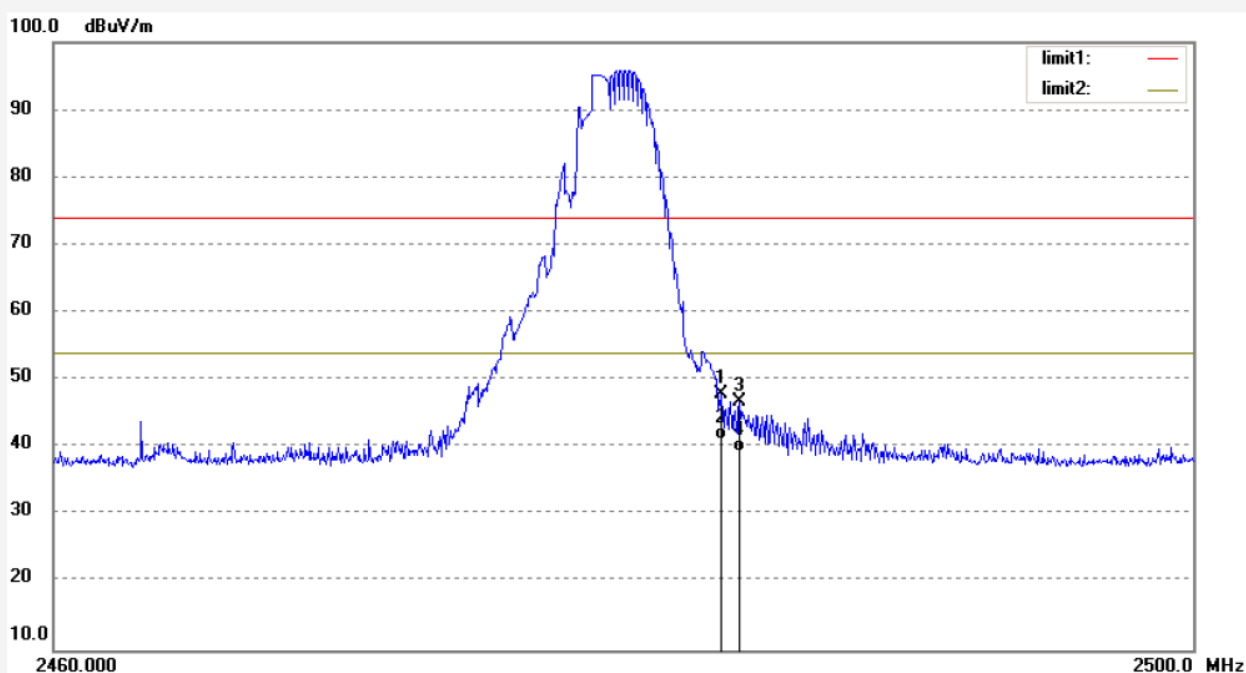
Date: 14/06/25/

Time: 9/50/41

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	54.49	-6.54	47.95	74.00	-26.05	peak			
2	2483.500	47.68	-6.54	41.14	54.00	-12.86	AVG			
3	2484.040	53.28	-6.54	46.74	74.00	-27.26	peak			
4	2484.040	46.01	-6.54	39.47	54.00	-14.53	AVG			



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Job No.: alen #3603

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz(GFSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

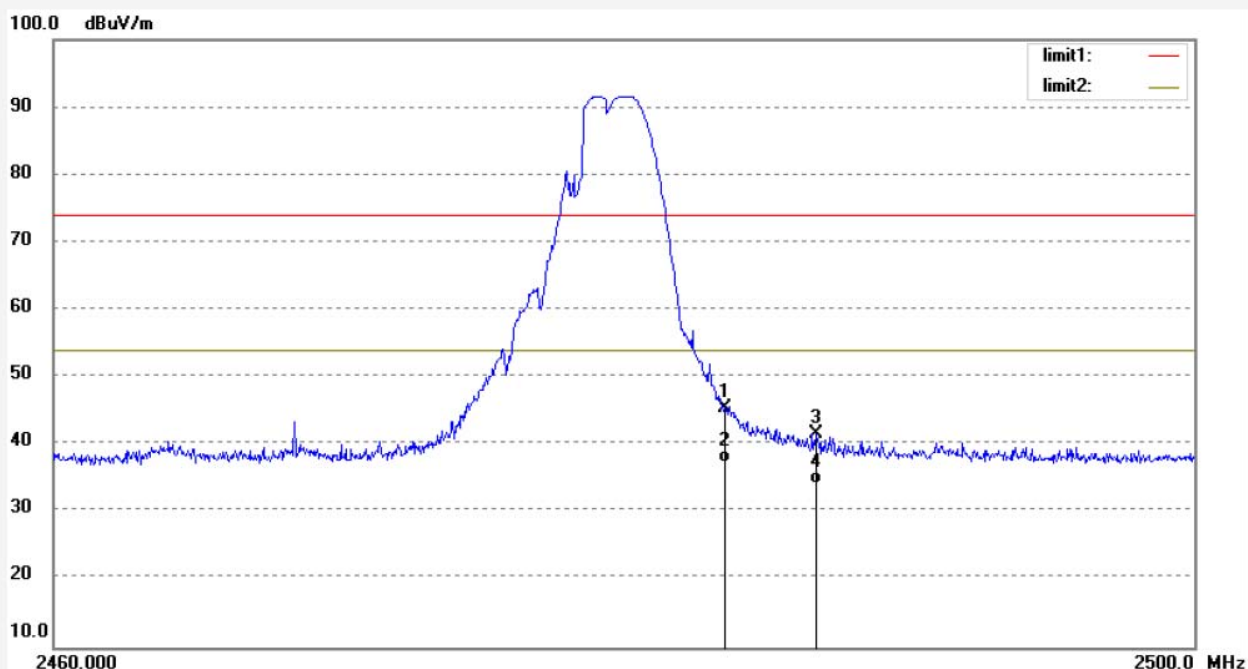
Date: 14/06/25/

Time: 9/52/11

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.98	-6.54	45.44	74.00	-28.56	peak			
2	2483.500	43.89	-6.54	37.35	54.00	-16.65	AVG			
3	2486.720	48.23	-6.53	41.70	74.00	-32.30	peak			
4	2486.720	40.68	-6.53	34.15	54.00	-19.85	AVG			

Job No.: alen #3626

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz(pi/4DQPSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

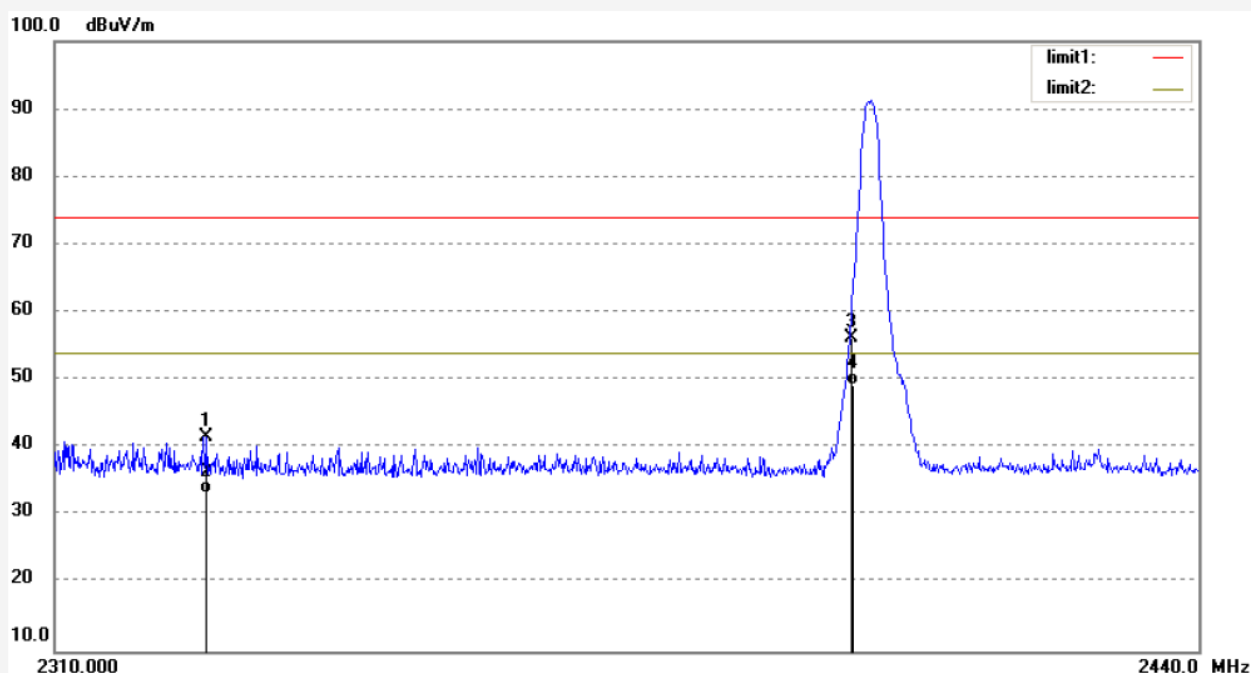
Date: 14/06/25/

Time: 9/05/12

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2326.900	48.65	-6.95	41.70	74.00	-32.30	peak			
2	2326.900	40.35	-6.95	33.40	54.00	-20.60	AVG			
3	2400.000	63.01	-6.76	56.25	74.00	-17.75	peak			
4	2400.000	56.10	-6.76	49.34	54.00	-4.66	AVG			

Job No.: alen #3625

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz(pi/4DQPSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

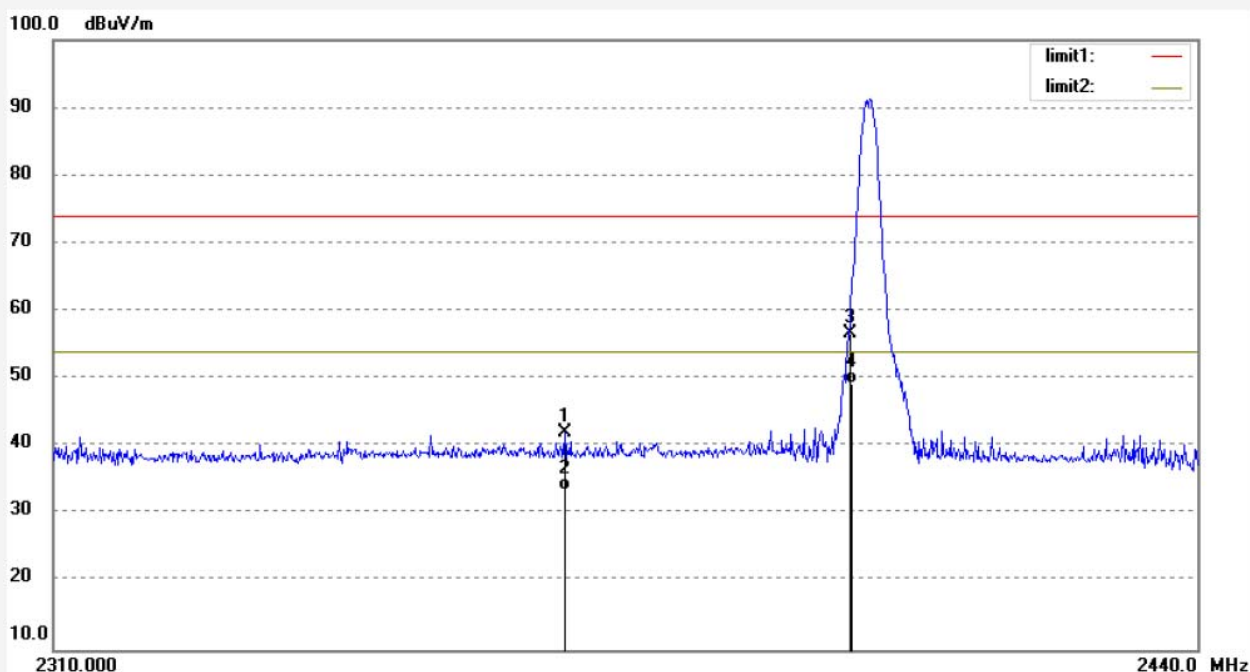
Date: 14/06/25/

Time: 9/04/05

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2367.330	48.78	-6.83	41.95	74.00	-32.05	peak			
2	2367.330	40.35	-6.83	33.52	54.00	-20.48	AVG			
3	2400.000	63.47	-6.76	56.71	74.00	-17.29	peak			
4	2400.000	56.10	-6.76	49.34	54.00	-4.66	AVG			



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Job No.: alen #3627

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz(pi/4DQPSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

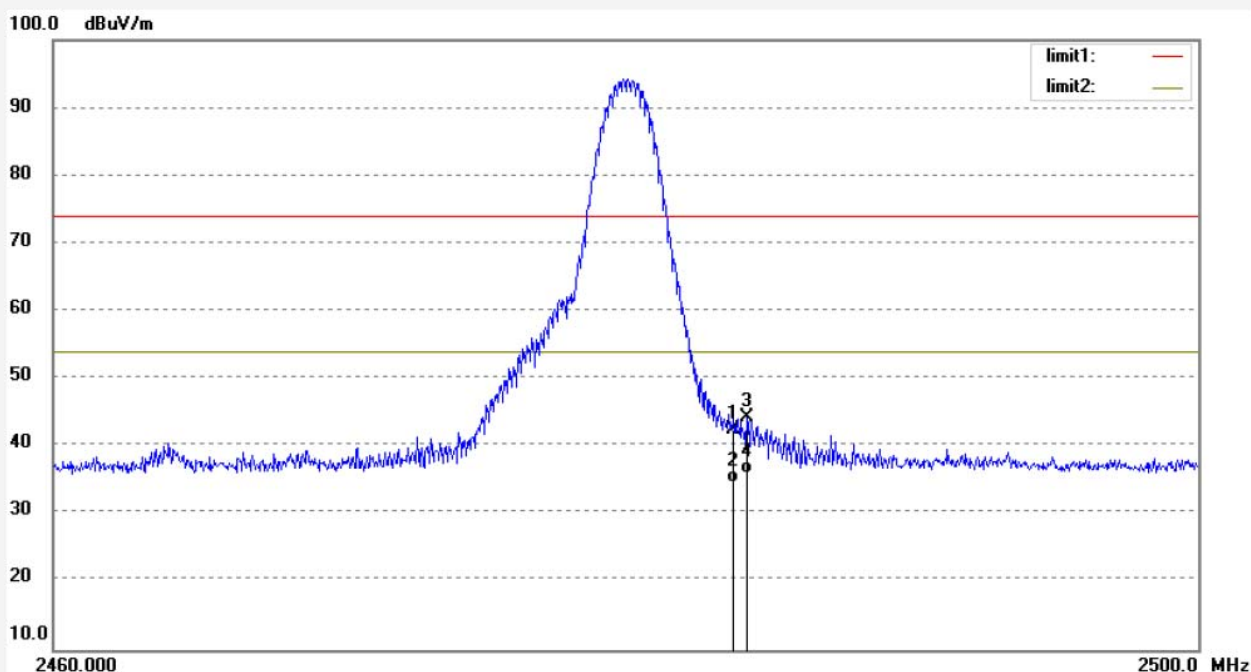
Date: 14/06/25/

Time: 9/06/39

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	49.08	-6.54	42.54	74.00	-31.46	peak			
2	2483.500	41.24	-6.54	34.70	54.00	-19.30	AVG			
3	2484.200	50.89	-6.54	44.35	74.00	-29.65	peak			
4	2484.200	42.56	-6.54	36.02	54.00	-17.98	AVG			

Job No.: alen #3628

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz(pi/4DQPSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

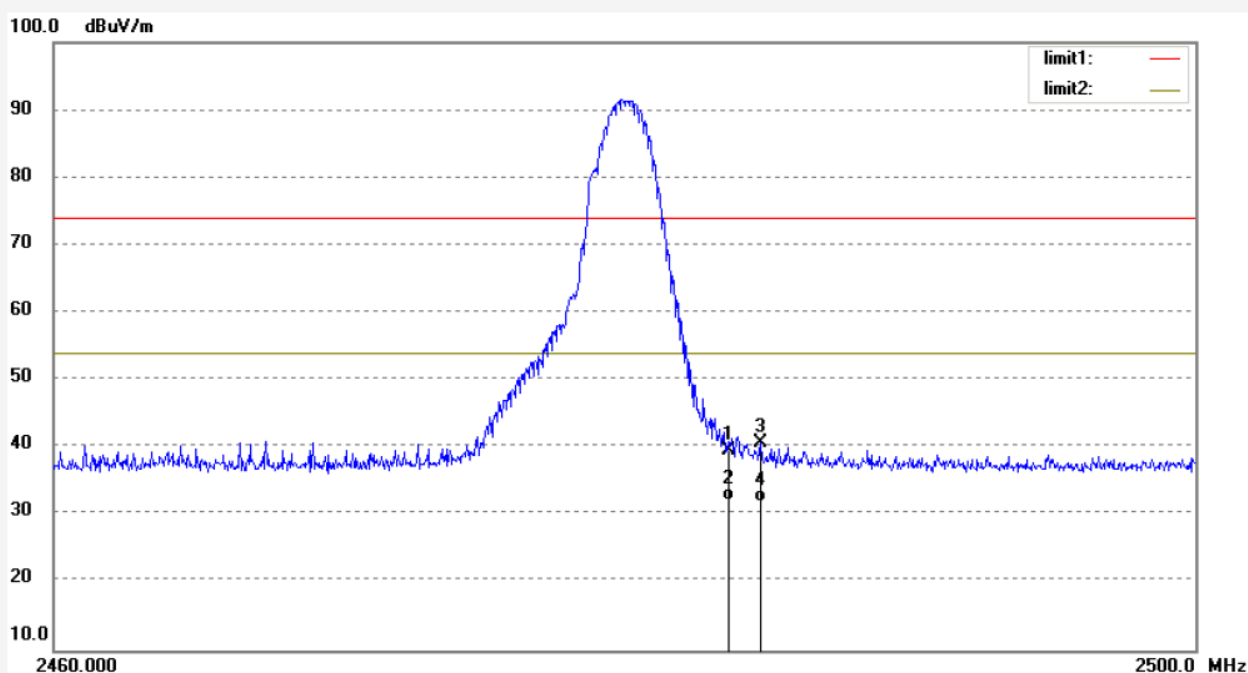
Date: 14/06/25/

Time: 9/08/06

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.15	-6.54	39.61	74.00	-34.39	peak			
2	2483.500	38.78	-6.54	32.24	54.00	-21.76	AVG			
3	2484.720	47.16	-6.54	40.62	74.00	-33.38	peak			
4	2484.720	38.54	-6.54	32.00	54.00	-22.00	AVG			

Job No.: alen #3618

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz(8DPSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

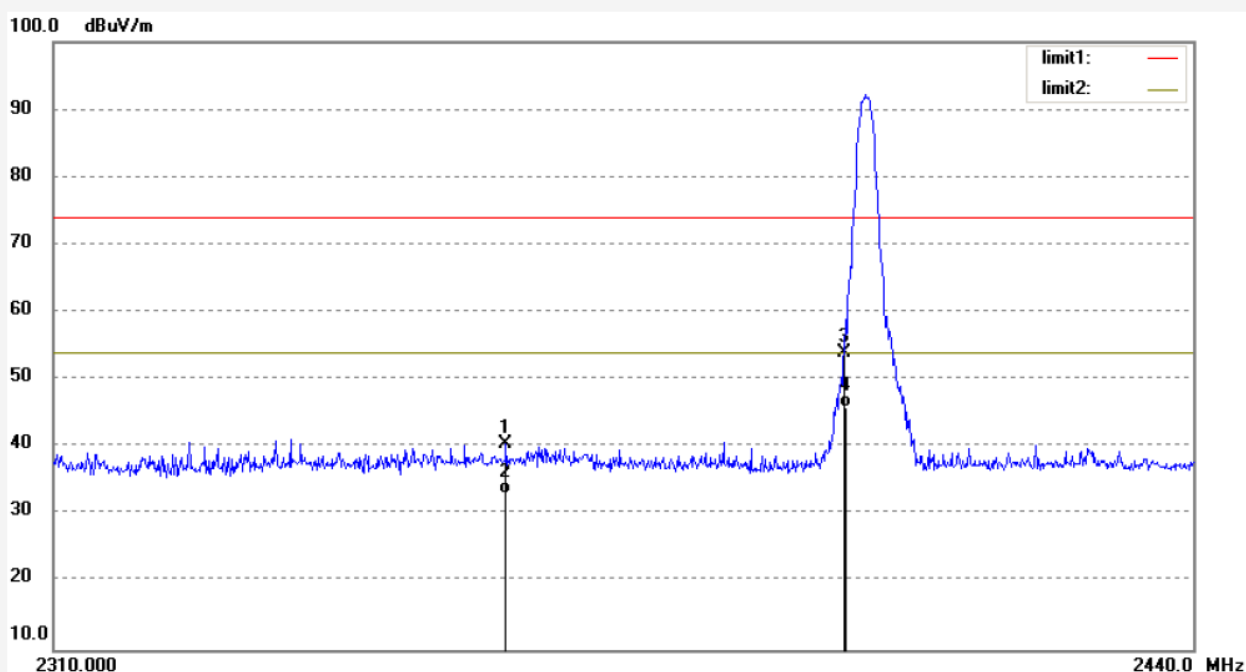
Date: 14/06/25/

Time: 8/43/01

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2360.830	47.36	-6.86	40.50	74.00	-33.50	peak			
2	2360.830	40.01	-6.86	33.15	54.00	-20.85	AVG			
3	2400.000	60.73	-6.76	53.97	74.00	-20.03	peak			
4	2400.000	52.54	-6.76	45.78	54.00	-8.22	AVG			

Job No.: alen #3617

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2402MHz(8DPSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

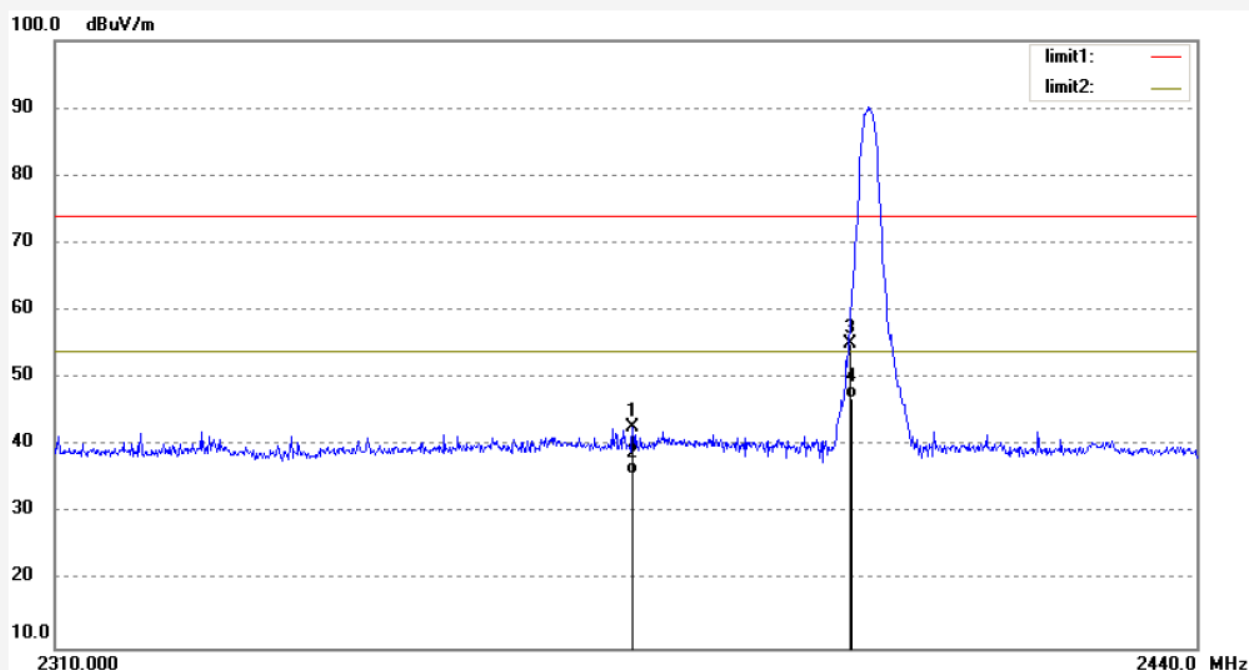
Date: 14/06/25/

Time: 8/41/27

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2375.000	49.62	-6.83	42.79	74.00	-31.21	peak			
2	2375.000	42.51	-6.83	35.68	54.00	-18.32	AVG			
3	2400.000	61.78	-6.76	55.02	74.00	-18.98	peak			
4	2400.000	53.87	-6.76	47.11	54.00	-6.89	AVG			



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Job No.: alen #3619

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz(8DPSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

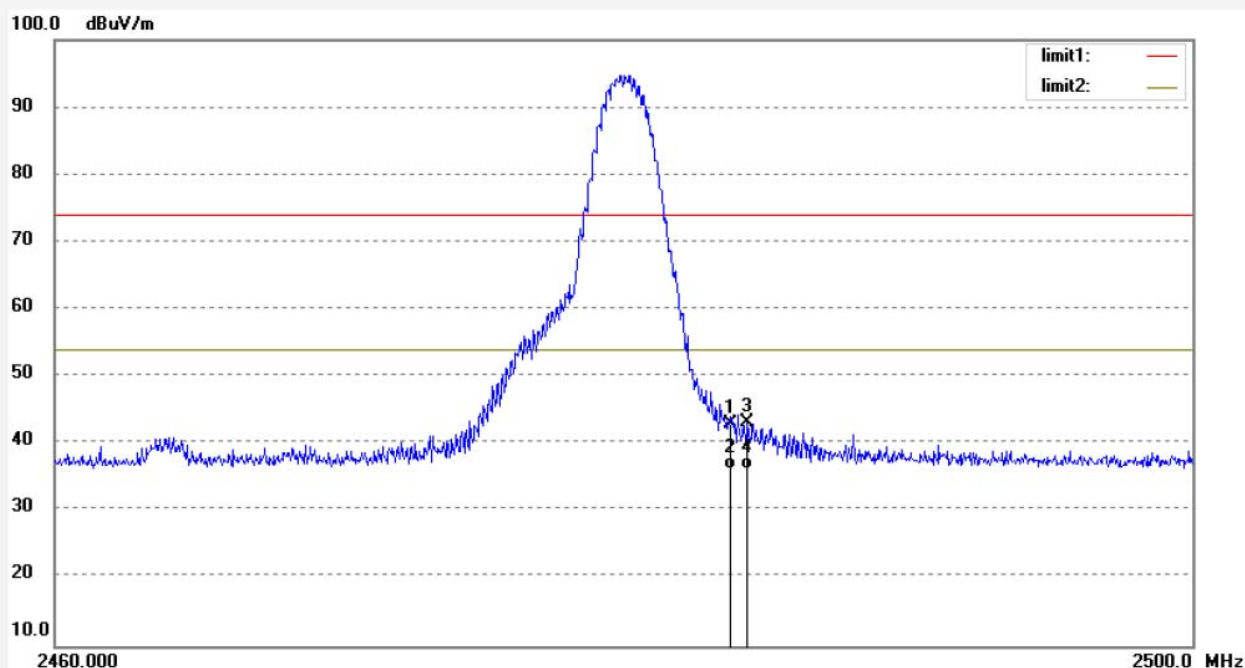
Date: 14/06/25/

Time: 8/44/57

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	49.59	-6.54	43.05	74.00	-30.95	peak			
2	2483.500	42.65	-6.54	36.11	54.00	-17.89	AVG			
3	2484.320	49.68	-6.54	43.14	74.00	-30.86	peak			
4	2484.320	42.74	-6.54	36.20	54.00	-17.80	AVG			

Job No.: alen #3620

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: TX 2480MHz(8DPSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

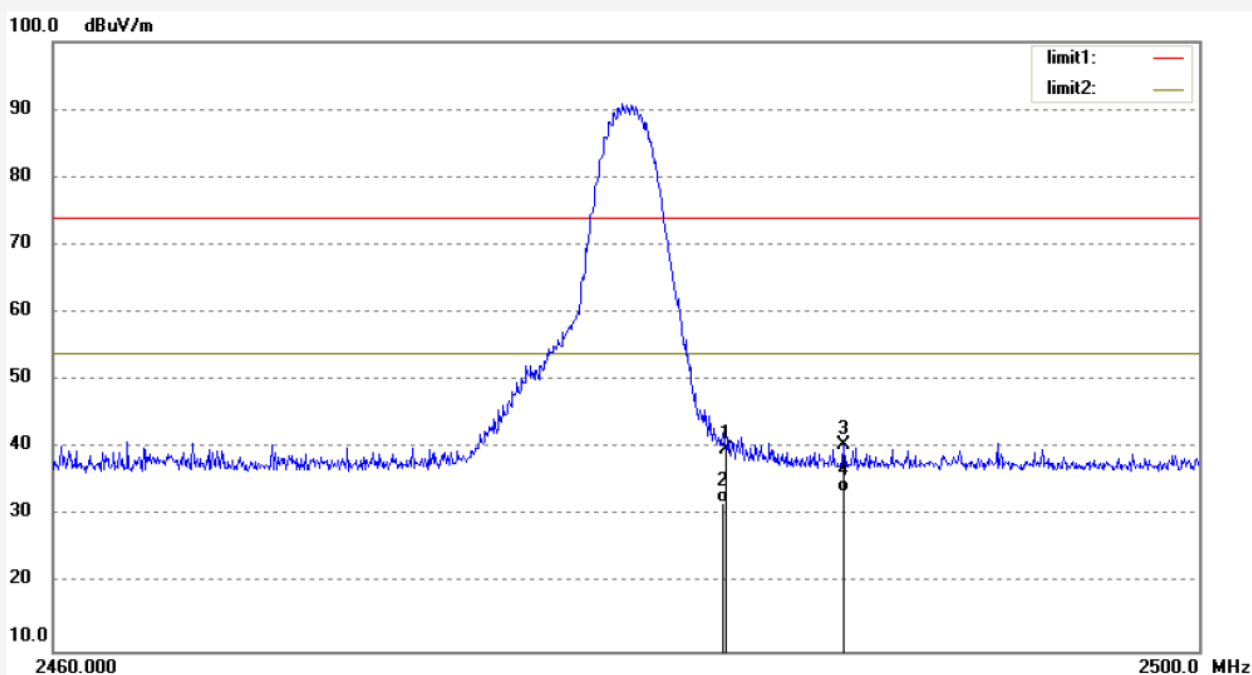
Date: 14/06/25/

Time: 8/46/20

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.27	-6.54	39.73	74.00	-34.27	peak			
2	2483.500	38.54	-6.54	32.00	54.00	-22.00	AVG			
3	2487.560	47.11	-6.52	40.59	74.00	-33.41	peak			
4	2487.560	39.98	-6.52	33.46	54.00	-20.54	AVG			

Hopping mode



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Job No.: alen #3608

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: Hopping TX(GFSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

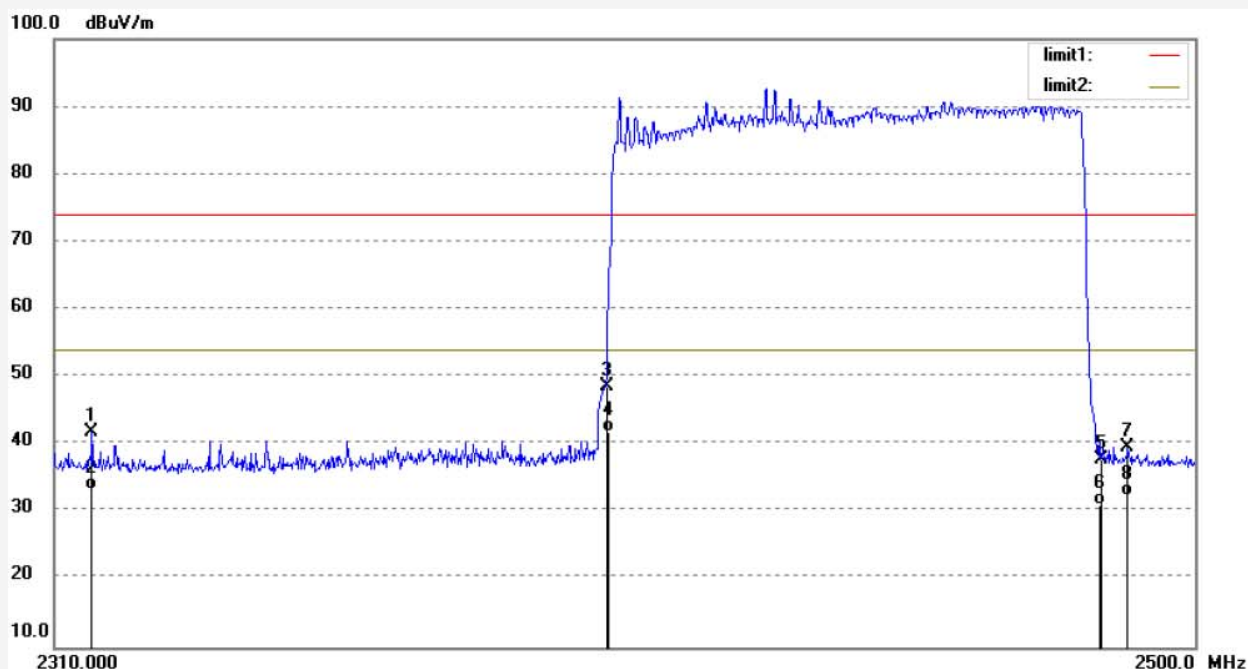
Date: 14/06/25/

Time: 15/38/05

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2316.080	48.79	-6.97	41.82	74.00	-32.18	peak			
2	2316.080	40.35	-6.97	33.38	54.00	-20.62	AVG			
3	2400.000	55.37	-6.76	48.61	74.00	-25.39	peak			
4	2400.000	48.65	-6.76	41.89	54.00	-12.11	AVG			
5	2483.660	44.29	-6.54	37.75	74.00	-36.25	peak			
6	2483.660	37.65	-6.54	31.11	54.00	-22.89	AVG			
7	2488.500	46.03	-6.52	39.51	74.00	-34.49	peak			
8	2488.500	38.87	-6.52	32.35	54.00	-21.65	AVG			



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Job No.: alen #3607

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: Hopping TX(GFSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

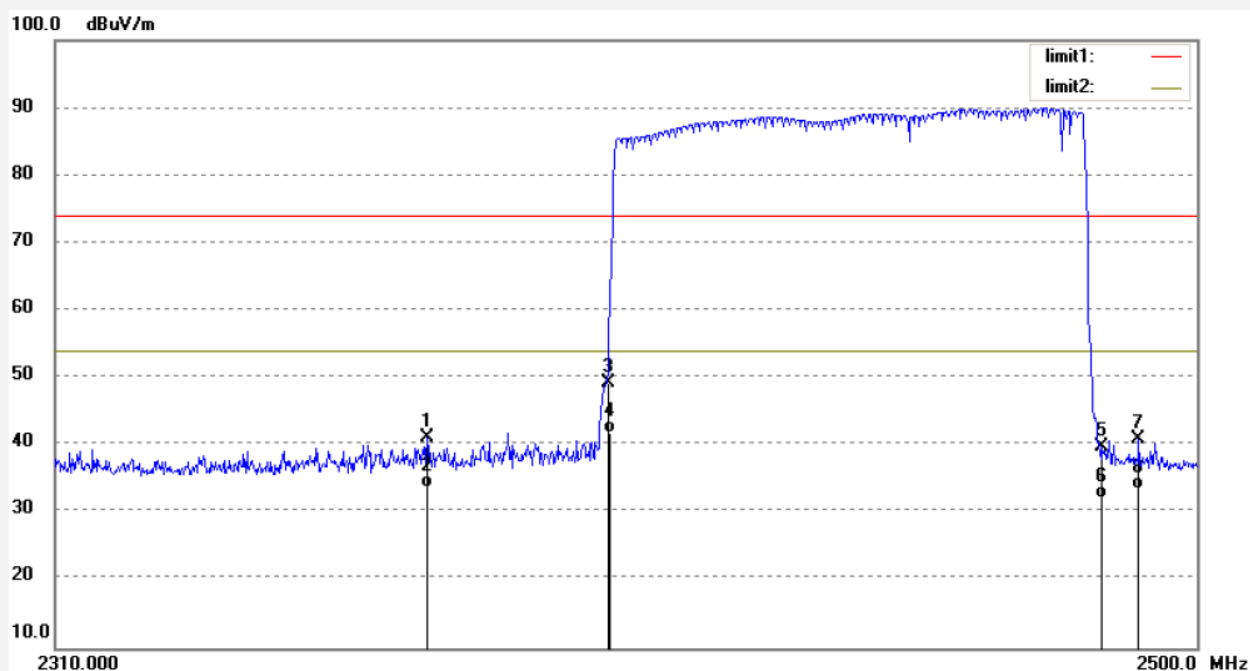
Date: 14/06/25/

Time: 15/33/06

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2370.420	47.96	-6.83	41.13	74.00	-32.87	peak			
2	2370.420	40.57	-6.83	33.74	54.00	-20.26	AVG			
3	2400.000	56.11	-6.76	49.35	74.00	-24.65	peak			
4	2400.000	48.68	-6.76	41.92	54.00	-12.08	AVG			
5	2483.500	46.40	-6.54	39.86	74.00	-34.14	peak			
6	2483.500	38.78	-6.54	32.24	54.00	-21.76	AVG			
7	2490.120	47.55	-6.52	41.03	74.00	-32.97	peak			
8	2490.120	40.12	-6.52	33.60	54.00	-20.40	AVG			

Job No.: alen #3623

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: Hopping TX(pi/4DQPSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

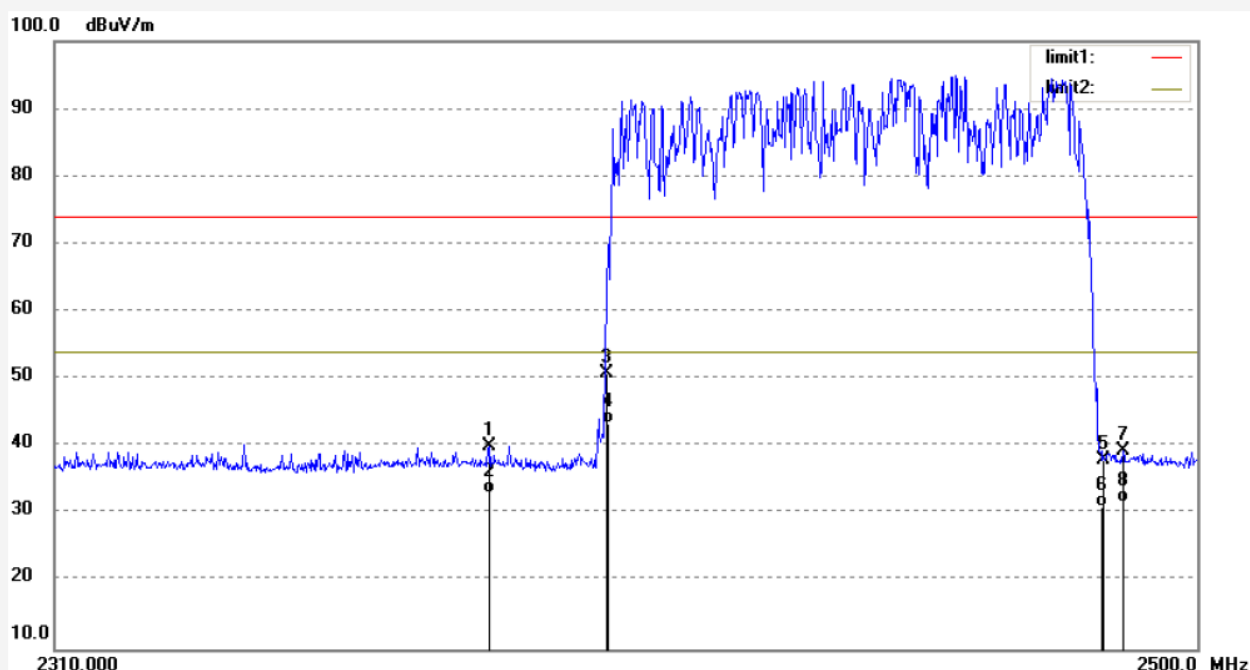
Date: 14/06/25/

Time: 8/59/45

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2380.680	46.89	-6.81	40.08	74.00	-33.92	peak			
2	2380.680	39.87	-6.81	33.06	54.00	-20.94	AVG			
3	2400.000	57.64	-6.76	50.88	74.00	-23.12	peak			
4	2400.000	50.24	-6.76	43.48	54.00	-10.52	AVG			
5	2483.500	44.55	-6.54	38.01	74.00	-35.99	peak			
6	2483.500	37.65	-6.54	31.11	54.00	-22.89	AVG			
7	2487.270	45.86	-6.53	39.33	74.00	-34.67	peak			
8	2487.270	38.28	-6.53	31.75	54.00	-22.25	AVG			



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Job No.: alen #3624

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: Hopping TX(pi/4DQPSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

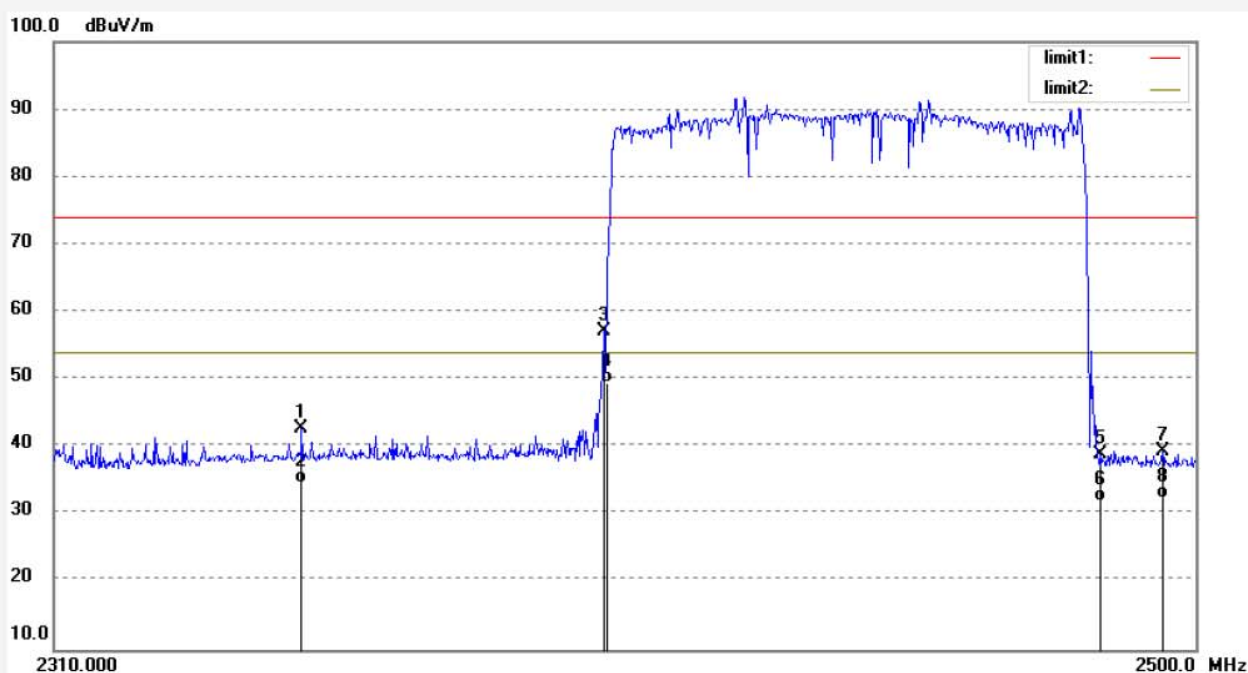
Date: 14/06/25/

Time: 9/02/36

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2350.090	49.72	-6.89	42.83	74.00	-31.17	peak			
2	2350.090	41.58	-6.89	34.69	54.00	-19.31	AVG			
3	2400.000	63.97	-6.76	57.21	74.00	-16.79	peak			
4	2400.000	56.21	-6.76	49.45	54.00	-4.55	AVG			
5	2483.500	45.38	-6.54	38.84	74.00	-35.16	peak			
6	2483.500	38.54	-6.54	32.00	54.00	-22.00	AVG			
7	2494.300	45.90	-6.50	39.40	74.00	-34.60	peak			
8	2494.300	38.87	-6.50	32.37	54.00	-21.63	AVG			

Job No.: alen #3622

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: Hopping TX(8DPSK)

Model: ICE

Manufacturer: IMC

Polarization: Horizontal

Power Source: AC 120V/60Hz

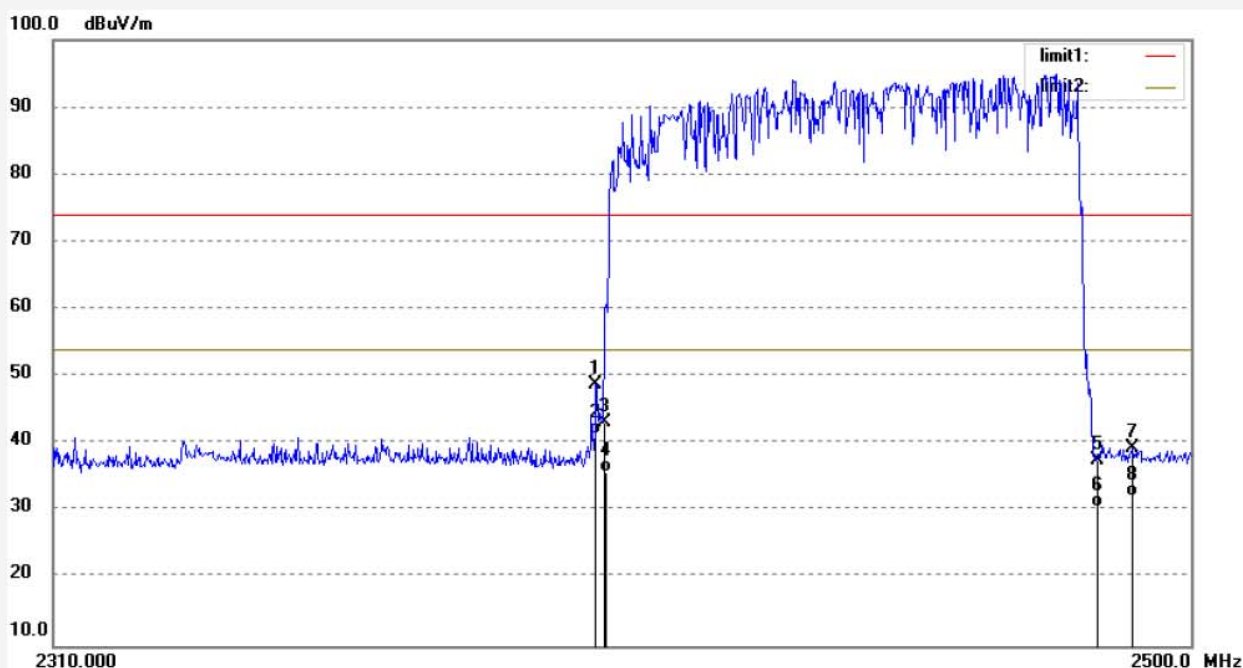
Date: 14/06/25/

Time: 8/55/36

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.920	55.67	-6.76	48.91	74.00	-25.09	peak			
2	2398.920	48.21	-6.76	41.45	54.00	-12.55	AVG			
3	2400.000	49.91	-6.76	43.15	74.00	-30.85	peak			
4	2400.000	42.57	-6.76	35.81	54.00	-18.19	AVG			
5	2483.500	44.18	-6.54	37.64	74.00	-36.36	peak			
6	2483.500	37.17	-6.54	30.63	54.00	-23.37	AVG			
7	2490.120	45.90	-6.52	39.38	74.00	-34.62	peak			
8	2490.120	38.78	-6.52	32.26	54.00	-21.74	AVG			

Job No.: alen #3621

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 4 inch 3G Tablet

Mode: Hopping TX(8DPSK)

Model: ICE

Manufacturer: IMC

Polarization: Vertical

Power Source: AC 120V/60Hz

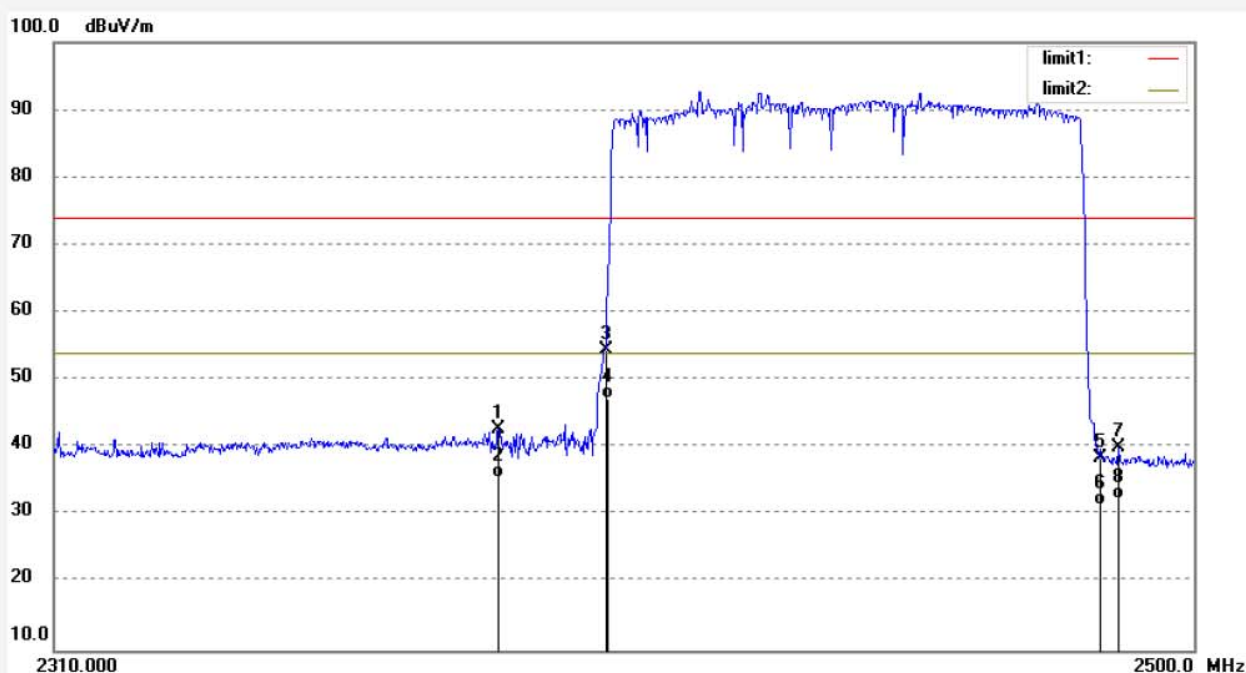
Date: 14/06/25/

Time: 8/50/53

Engineer Signature:

Distance: 3m

Note: Report No:ATE20141089

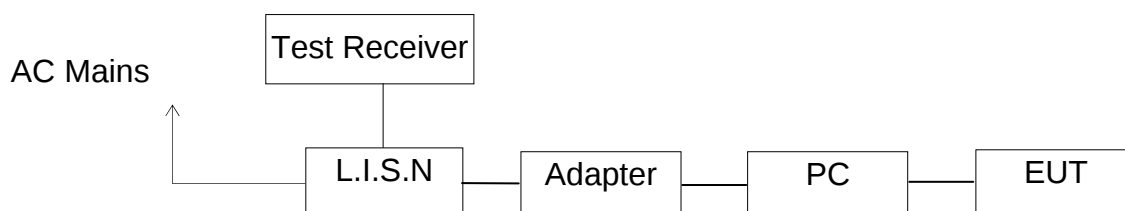


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2382.390	49.51	-6.81	42.70	74.00	-31.30	peak			
2	2382.390	42.45	-6.81	35.64	54.00	-18.36	AVG			
3	2400.000	61.24	-6.76	54.48	74.00	-19.52	peak			
4	2400.000	54.01	-6.76	47.25	54.00	-6.75	AVG			
5	2483.500	45.07	-6.54	38.53	74.00	-35.47	peak			
6	2483.500	38.01	-6.54	31.47	54.00	-22.53	AVG			
7	2487.080	46.52	-6.53	39.99	74.00	-34.01	peak			
8	2487.080	38.89	-6.53	32.36	54.00	-21.64	AVG			

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

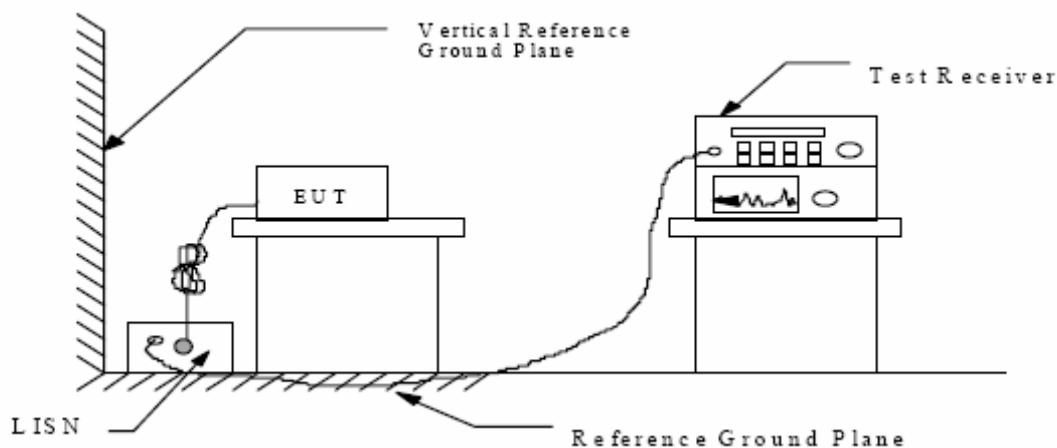
15 SECTION 15.207(A)

12.1.Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

12.2.Shielding Room Test Setup Diagram



12.3.The Emission Limit

12.3.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

12.4.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

12.5.Operating Condition of EUT

12.5.1.Setup the EUT and simulator as shown as Section 12.1.

12.5.2.Turn on the power of all equipment.

12.5.3.Let the EUT work in test mode and measure it.

12.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

12.7.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : Charging&BT communicating								
MEASUREMENT RESULT: "IMC-BT3-V01_fin"								
2014-6-27 9:01								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150300	56.60	10.5	66	9.4	QP	L1	GND	
0.214493	58.90	10.6	63	4.1	QP	L1	GND	
0.430773	40.00	10.9	57	17.2	QP	L1	GND	
MEASUREMENT RESULT: "IMC-BT3-V01_fin2"								
2014-6-27 9:01								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	43.40	10.5	56	12.6	AV	L1	GND	
0.214922	47.20	10.6	53	5.8	AV	L1	GND	
0.286572	40.50	10.8	51	10.1	AV	L1	GND	
MEASUREMENT RESULT: "IMC-BT3-V02_fin"								
2014-6-27 9:04								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.150000	57.30	10.5	66	8.7	QP	N	GND	
0.215352	57.90	10.7	63	5.1	QP	N	GND	
0.287145	49.50	10.8	61	11.1	QP	N	GND	
MEASUREMENT RESULT: "IMC-BT3-V02_fin2"								
2014-6-27 9:04								
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	
0.215352	45.40	10.7	53	7.6	AV	N	GND	
0.359158	37.40	10.9	49	11.3	AV	N	GND	
0.502415	33.80	11.0	46	12.2	AV	N	GND	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

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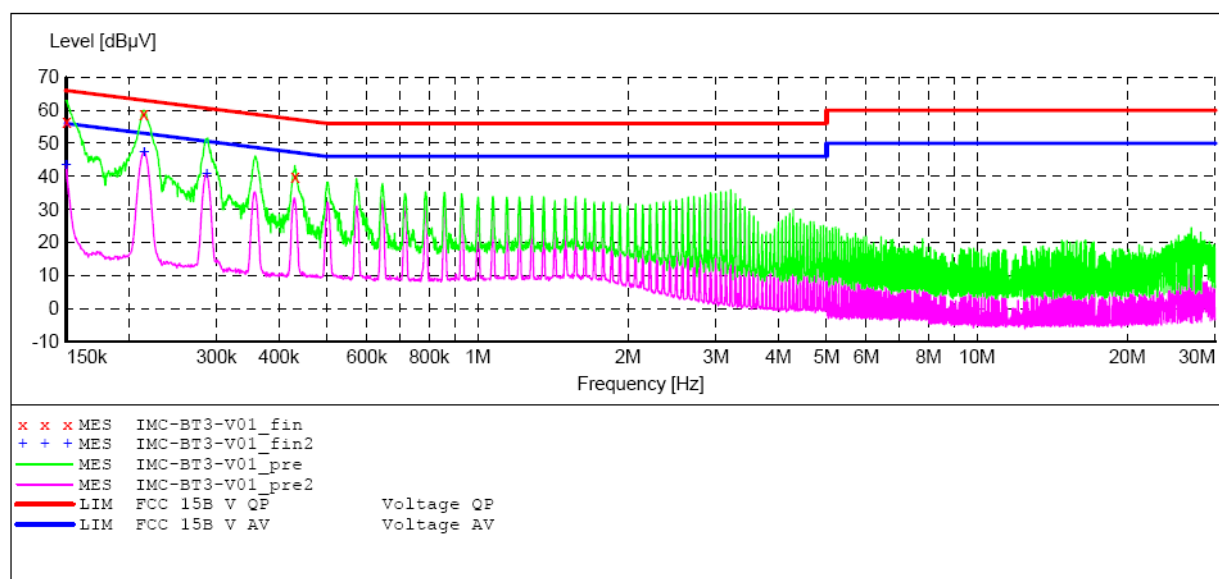
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: 4"3G TABLET M/N:ICE
 Manufacturer: IMC
 Operating Condition: BT/Charging
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20141089
 Start of Test: 2014-6-27 / 8:59:54

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN (ESH3-Z5)
			Average			



MEASUREMENT RESULT: "IMC-BT3-V01_fin"

2014-6-27 9:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150300	56.60	10.5	66	9.4	QP	L1	GND
0.214493	58.90	10.6	63	4.1	QP	L1	GND
0.430773	40.00	10.9	57	17.2	QP	L1	GND

MEASUREMENT RESULT: "IMC-BT3-V01_fin2"

2014-6-27 9:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	43.40	10.5	56	12.6	AV	L1	GND
0.214922	47.20	10.6	53	5.8	AV	L1	GND
0.286572	40.50	10.8	51	10.1	AV	L1	GND

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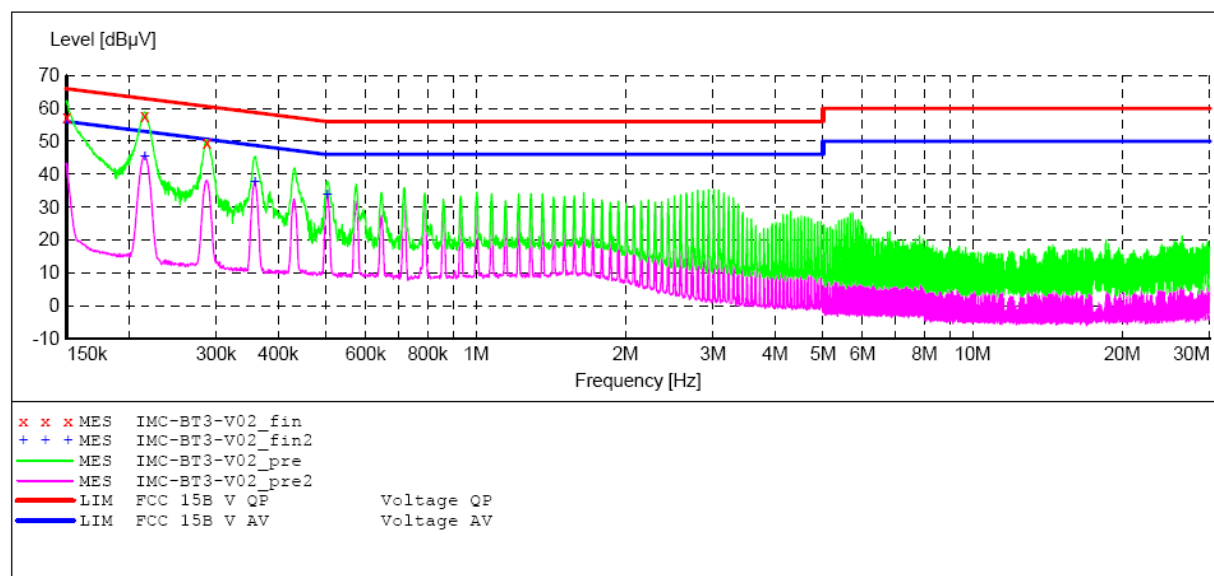
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: 4"3G TABLET M/N:ICE
 Manufacturer: IMC
 Operating Condition: BT/Charging
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20141089
 Start of Test: 2014-6-27 / 9:02:37

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
			Average			



MEASUREMENT RESULT: "IMC-BT3-V02_fin"

2014-6-27 9:04

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBμV	dB	dBμV	dB			
0.150000	57.30	10.5	66	8.7	QP	N	GND
0.215352	57.90	10.7	63	5.1	QP	N	GND
0.287145	49.50	10.8	61	11.1	QP	N	GND

MEASUREMENT RESULT: "IMC-BT3-V02_fin2"

2014-6-27 9:04

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBμV	dB	dBμV	dB			
0.215352	45.40	10.7	53	7.6	AV	N	GND
0.359158	37.40	10.9	49	11.3	AV	N	GND
0.502415	33.80	11.0	46	12.2	AV	N	GND

13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2.Antenna Construction

The antenna is integral antenna, no consideration of replacement. Therefore, the equipment complies with the antenna requirement of Section 15.203.

Antenna

