FCC Test Report

Product Name	Rugged Tablet
Model No	PA501BXXXXXXXXX (X for marketing used only: can be alphanumeric or blank)
FCC ID.	2ABTU-PA501B

Applicant	RuggON Corporation
Address	4F, No. 298, Yang Guang St., Neihu Dist., Taipei City, Taiwan

Date of Receipt	May. 30, 2019
Issue Date	Sep. 11, 2019
Report No.	1950454R-RFUSP27V00
Report Version	V1.0

Testing Laboratory
3023

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
This report must not be used to claim product endorsement by TAF or any agency of the government.
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Test Report

Issue Date: Sep. 11, 2019
Report No.: 1950454R-RFUSP27V00

Product Name	Rugged Tablet
Applicant	RuggON Corporation
Address	4F, No. 298, Yang Guang St., Neihu Dist., Taipei City, Taiwan
Manufacturer	RuggON Corporation
Model No.	PA501BXXXXXXXXX (X for marketing used only: can be alphanumeric or blank)
FCC ID.	2ABTU-PA501B
EUT Rated Voltage	AC 100-240V,50-60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	RuggON
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2017 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v05r02
Test Result	Complied

Documented By : Anny Chou

(Senior Adm. Specialist / Anny Chou)

Tested By : Sam Hsu

(Engineer / Sam Hsu)

Approved By :

(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Rugged Tablet
Trade Name	RuggON
Model No.	PA501BXXXXXXXXX (X for marketing used only: can be alphanumeric or blank)
FCC ID.	2ABTU-PA501B
Frequency Range	2412-2462MHz for 802.11b/g/n-20BW, 2422-2452MHz for 802.11n-40BW
Number of Channels	802.11b/g/n-20MHz: 11, 802.11n-40MHz: 9
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 300Mbps
Channel separation	802.11b/g/n: 5 MHz
Type of Modulation	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	PIFA Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
Power Adapter	MFR: FSP, M/N: FSP065-RBBN3 Input: AC 100-240Vac, 1.5A 50/60Hz Output: 19V⎓3.42A Cable Out: Non-shielded, 1.5m, with one ferrite core bonded.

Antenna List:

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	AnJie	AJDQ1J-B0024(Main) AJDQ1J-W0001(Aux)	PIFA	Main: 2.94dBi for 2.4 GHz Aux: 3.31dBi for 2.4 GHz

Note: The antenna of EUT is conforming to FCC 15.203.

1.2. Test Summary

Part 15C Requirement

Requirement – Test Item	Result
Output Power	Pass
Spurious emissions	Pass
Band edge	Pass

Part 22H,Part 24E,Part 27,Part 90 Requirement

Requirement – Test Item	Result
EIRP	Pass
Spurious emissions	Pass

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11n-40MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 03:	2422 MHz	Channel 04:	2427 MHz	Channel 05:	2432 MHz	Channel 06:	2437 MHz
Channel 07:	2442 MHz	Channel 08:	2447 MHz	Channel 09:	2452 MHz		

Note:

1. The EUT is an Rugged Tablet,Contains functions on NFC, 2.4G and 5G band WIFI and WWAN with Bluetooth (V5.0 and V3.0+HS, V2.1+EDR) combo card module transceiver,this report for 2.4GHz WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. These tests are conducted on a sample for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
5. This device contains the certified FCC ID: 2ABTU-MS01PRO, This is a WLAN/WWAN/BT Combo Card, the original certified module uses Dipole Antenna, and final product addition the antenna a PIFA Antenna.
6. The consider Co-Location based on KDB 996369 D02 Question 1 and KDB 996369 D04 for Radiated Spurious Emission & SAR testing
7. Since the antenna gain and output power are both smaller than the original certification, the final product complies with the KDB 178919 Section II.B) ERP/EIRP rules.
8. The final test results meets all the applicable FCC rules, including FCC Part 15C and Part 22H, Part 24E, Part 27 Part 90.

Test Mode (Simultaneous Transmit)	Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC
	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC
	Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC
	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC

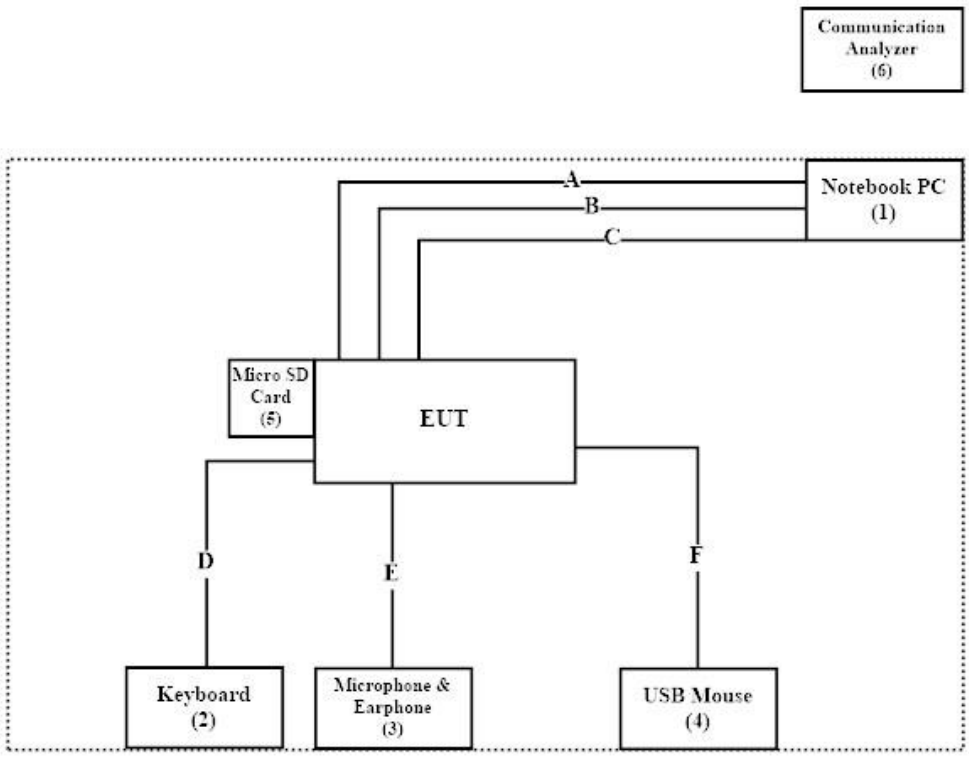
1.4. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude 5491	1PL56S2	N/A
2	Keyboard	DELL	SK-8115	MY-0DJ325-71619-79D-0178	N/A
3	Microphone & Earphone	Ergotech	ET-E201	N/A	N/A
4	USB Mouse	Logitech	M-BE58	HCA30103357	N/A
5	Micro SD Card 1GB	SanDisk	N/A	0801002841D2N	N/A
6	Communication Analyzer	Anritsu	MT8820C	6201091166	N/A

Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 1.8m
B	USB Cable	Shielded, 2.1m
C	LAN Cable	Shielded, 3m
D	Keyboard Cable	Shielded, 1.8m
E	Microphone & Earphone Cable	Shielded, 2m
F	Mouse Cable	Shielded, 1.8m

1.5. Configuration of Tested System



1.6. EUT Exercise Software

(1) Setup the EUT as shown on 1.4
(2) Execute software “QRCT V3.0.268.0” on the EUT.
(3) The Communication Analyzer (MT8820C) uses in controlling EUT to transmit continuously.
(4) Configure the test mode, the test channel, and the data rate.
(5) Start the continuous transmission.
(6) Verify that the EUT works properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

USA : FCC Registration Number: TW3023

Canada : IC Registration Number: 4075A

Site Description: Accredited by TAF
Accredited Number: 3023

Test Laboratory: DEKRA Testing and Certification Co., Ltd
Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
Phone number: 886-2-8601-3788
Fax number: 886-2-8601-3789
Email address: info.tw@dekra.com
Website: http://www.dekra.com.tw

1.8. List of Test Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2019/02/26	2020/02/25
X	Spectrum Analyzer	Agilent	N9010A	MY53470892	2018/09/27	2019/09/26
X	Peak Power Analyzer	Keysight	8990B	MY51000410	2019/07/30	2020/07/29
X	Wideband Power Sensor	Keysight	N1923A	MY56080003	2019/07/30	2020/07/29
X	Wideband Power Sensor	Keysight	N1923A	MY56080004	2019/07/30	2020/07/29
X	EMI Test Receiver	R&S	ESCS 30	100369	2018/11/19	2019/11/18
X	LISN	R&S	ENV216	101105	2019/04/10	2020/04/09
X	LISN	R&S	ESH3-Z5	836679/014	2019/04/10	2020/04/09
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2018/06/21	2019/06/20

For Radiated measurements /Site3/CB8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Spectrum Analyzer	R&S	FSP40	100170	2019/03/11	2020/03/10
X	Communication Analyzer	Anritsu	MT8820C	6201091166	2019/03/21	2020/03/20
X	Loop Antenna	Teseq	HLA6121	37133	2017/10/13	2019/10/12
X	Bilog Antenna	Schaffner Chase	CBL6112B	2707	2019/06/23	2020/06/22
X	Coaxial Cable	DEKRA	RG 214	LC003-RG	2019/06/13	2020/06/12
X	Pre-Amplifier	Jet-Power	JPA-10M1G33	170101000330	2019/06/13	2020/06/12
X	Horn Antenna	ETS-Lindgren	3117	00135205	2019/04/30	2020/04/29
X	Horn Antenna	SCHWARZBECK	9120D	576	2018/12/18	2019/12/17
X	Pre-Amplifier	EMCI	EMC012630SE	980210	2019/04/16	2020/04/15
X	Horn Antenna	Com-Power	AH-840	101043	2019/01/19	2020/01/18
X	Amplifier + Cable	EMCI	EMC184045SE	980370	2019/03/27	2020/03/26
X	Filter	MICRO-TRONICS	BRM50702	G270	2019/08/08	2020/08/07
X	Filter	MICRO-TRONICS	BRM50716	G196	2019/08/08	2020/08/07

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version :QuieTek EMI 2.0 V2.1.113.

2. Peak Power Output

2.1. Test Setup

2.2. Limits

The maximum peak power shall be less 1 Watt.
The final test results meets all the applicable FCC rules, including FCC Part 15C and Part 22H, Part 24E, Part 27 Part 90.

2.3. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 D01 DTS Meas Guidance v04 section 9.1.3 PKPM1 Peak power meter method.

2.4. Uncertainty

± 1.27 dB

2.5. Test Result of Peak Power Output

Product : Rugged Tablet
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test date : 2019/09/06
Test Mode : Transmit 802.11b

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Required Limit	Result
		1	2	5.5	11		
		Measurement Level (dBm)					
01	2412	17.38	--	--	--	<30dBm	Pass
02	2417	17.30	17.18	17.10	17.03	<30dBm	Pass
06	2437	17.62	--	--	--	<30dBm	Pass
10	2457	17.76	--	--	--	<30dBm	Pass
11	2462	17.51	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Required Limit	Result
		1	2	5.5	11		
		Measurement Level (dBm)					
01	2412	18.34	--	--	--	<30dBm	Pass
02	2417	18.31	18.20	18.08	17.96	<30dBm	Pass
06	2437	18.24	--	--	--	<30dBm	Pass
10	2457	18.23	--	--	--	<30dBm	Pass
11	2462	18.13	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : Rugged Tablet
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test date : 2019/09/06
Test Mode : Transmit 802.11g

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		6	9	12	18	24	36	48	54		
		Measurement Level (dBm)									
01	2412	17.65	--	--	--	--	--	--	--	<30dBm	Pass
02	2417	17.67	17.54	17.42	17.33	17.24	17.10	16.96	16.86	<30dBm	Pass
06	2437	17.62	--	--	--	--	--	--	--	<30dBm	Pass
10	2457	17.67	--	--	--	--	--	--	--	<30dBm	Pass
11	2462	17.58	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Required Limit	Result
		6	9	12	18	24	36	48	54		
		Measurement Level (dBm)									
01	2412	18.29	--	--	--	--	--	--	--	<30dBm	Pass
02	2417	18.36	18.27	18.16	18.05	17.96	17.89	17.77	17.67	<30dBm	Pass
06	2437	18.21	--	--	--	--	--	--	--	<30dBm	Pass
10	2457	18.22	--	--	--	--	--	--	--	<30dBm	Pass
11	2462	18.25	--	--	--	--	--	--	--	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : Rugged Tablet
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test date : 2019/09/06
Test Mode : Transmit 802.11n20

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)							
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15
		Measurement Level (dBm)							
01	2412	15.91	--	--	--	--	--	--	--
02	2417	16.31	16.22	16.15	16.05	15.91	15.77	15.65	15.51
06	2437	16.45	--	--	--	--	--	--	--
10	2457	16.4	--	--	--	--	--	--	--
11	2462	16.37	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)							
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15
		Measurement Level (dBm)							
01	2412	16.68	--	--	--	--	--	--	--
02	2417	17.18	17.08	17.01	16.90	16.76	16.63	16.53	16.39
06	2437	16.93	--	--	--	--	--	--	--
10	2457	16.98	--	--	--	--	--	--	--
11	2462	17.02	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
01	2412	HT8	15.91	16.68	19.32	<30dBm	Pass
02	2417	HT8	16.31	17.18	19.78	<30dBm	Pass
06	2437	HT8	16.45	16.93	19.71	<30dBm	Pass
10	2457	HT8	16.40	16.98	19.71	<30dBm	Pass
11	2462	HT8	16.37	17.02	19.72	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

Product : Rugged Tablet
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test date : 2019/09/06
Test Mode : Transmit 802.11n40

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)							
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15
		Measurement Level (dBm)							
03	2422	13.56	--	--	--	--	--	--	--
04	2427	16.94	16.85	16.77	16.70	16.58	16.44	16.34	16.24
06	2437	16.88	--	--	--	--	--	--	--
08	2447	16.94	--	--	--	--	--	--	--
09	2452	15.34	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)							
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15
		Measurement Level (dBm)							
03	2422	14.36	--	--	--	--	--	--	--
04	2427	17.58	17.49	17.39	17.26	17.17	17.09	16.96	16.88
06	2437	17.55	--	--	--	--	--	--	--
08	2447	17.58	--	--	--	--	--	--	--
09	2452	15.71	--	--	--	--	--	--	--

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

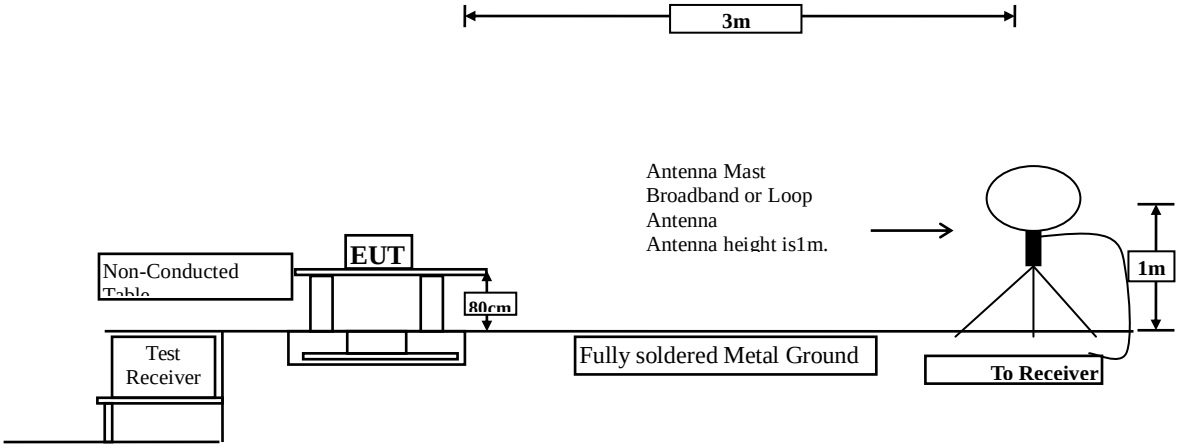
Channel	Frequency (MHz)	Data Rate (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
03	2422	HT8	13.56	14.36	16.99	<30dBm	Pass
04	2427	HT8	16.94	17.58	20.28	<30dBm	Pass
06	2437	HT8	16.88	17.55	20.24	<30dBm	Pass
08	2447	HT8	16.94	17.58	20.28	<30dBm	Pass
09	2452	HT8	15.34	15.71	18.54	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW))

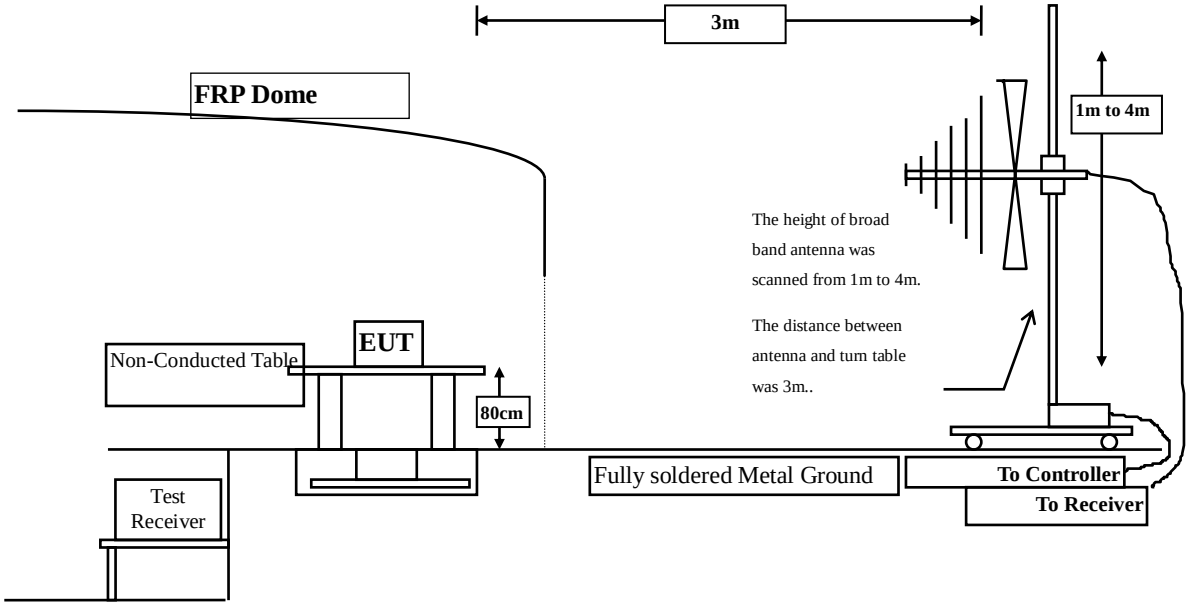
3. Radiated Emission

3.1. Test Setup

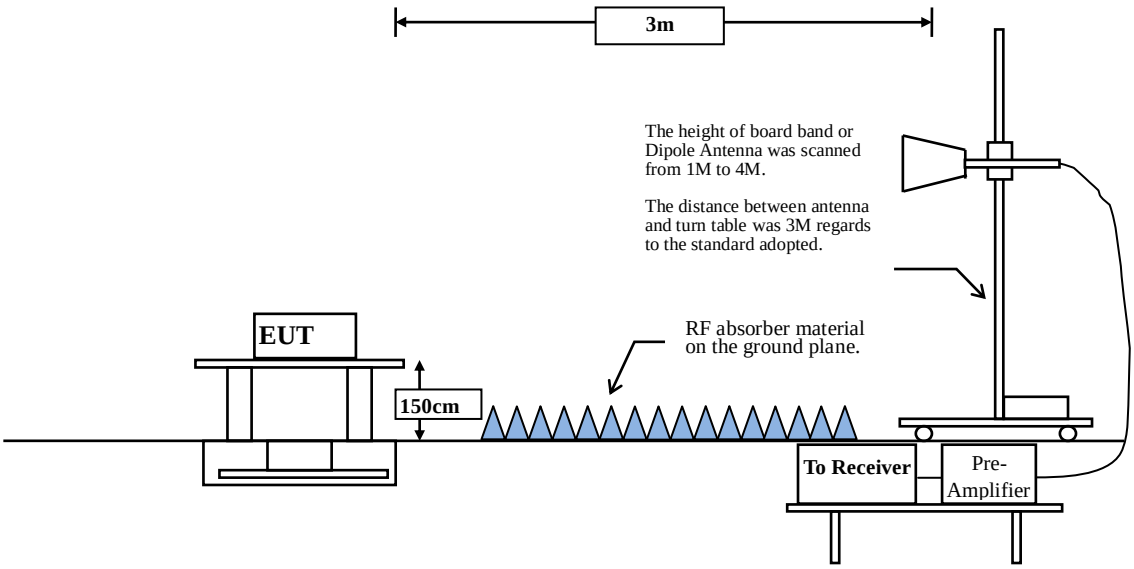
Under 30MHz



Below 1GHz



Above 1GHz



3.2. Limits

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

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

The final test results meets all the applicable FCC rules, including FCC Part 15C and Part 22H, Part 24E, Part 27 Part 90.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

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

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

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

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

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

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

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

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

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

RBW and VBW Parameter setting:

According to KDB 558074 Peak power measurement procedure

RBW = as specified in Table 1.

VBW ≥ 3 x RBW.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to KDB 558074 Average power measurement procedure

RBW = 1MHz.

VBW = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	98.84	12.3333	81	10
802.11g	93.29	2.0145	496	500
802.11 n20	89.43	0.9565	1045	2000
802.11 n40	67.39	0.4493	2226	3000

Note: Duty Cycle Refer to Section 5

3.4. Uncertainty

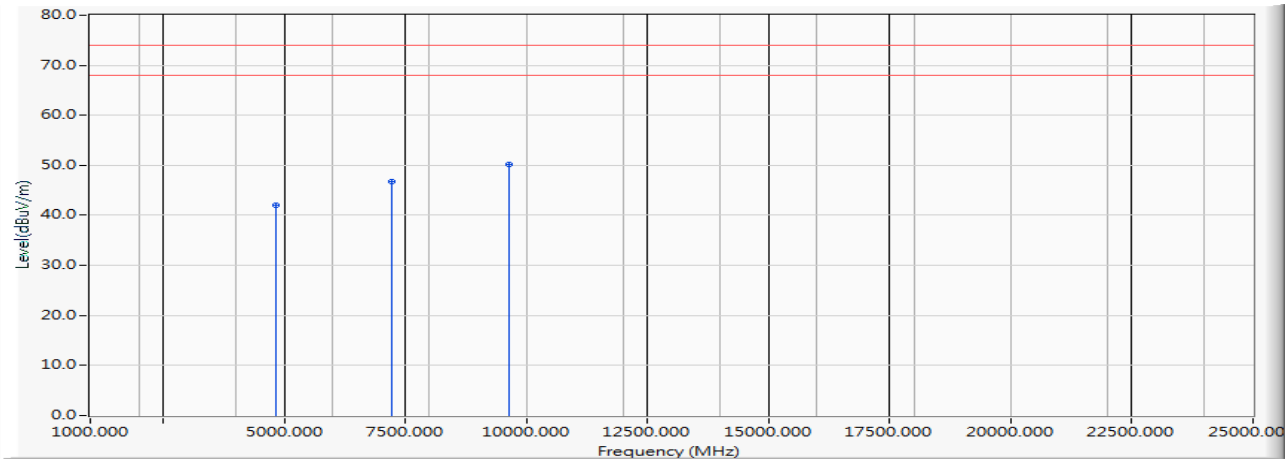
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

3.5. Test Result of Radiated Emission

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

Horizontal



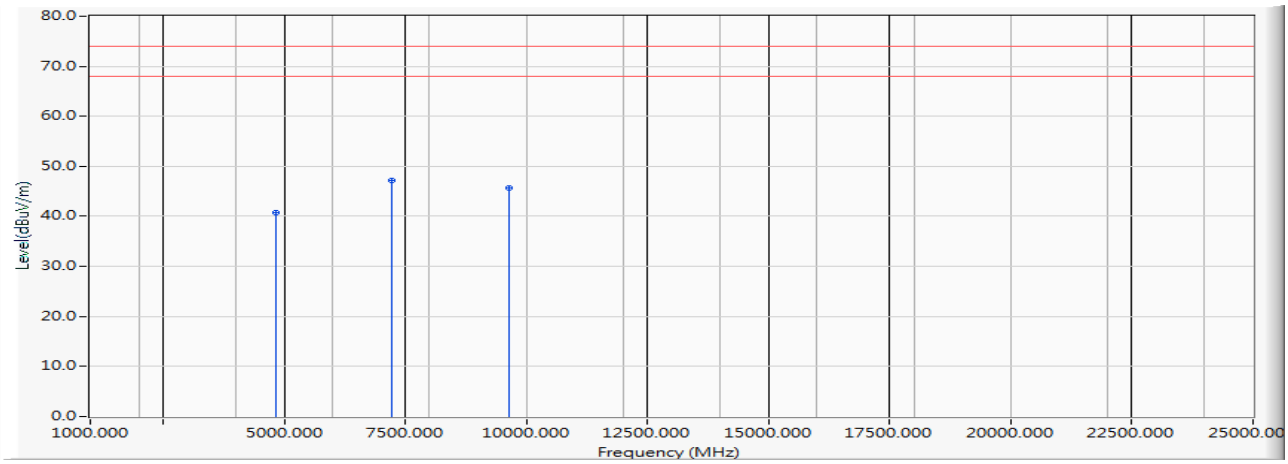
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-15.675	57.750	42.075	-31.925	74.000	PEAK
2		7236.000	-12.465	59.210	46.744	-27.256	74.000	PEAK
3	*	9648.000	-7.977	58.150	50.173	-3.827	54.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

Vertical



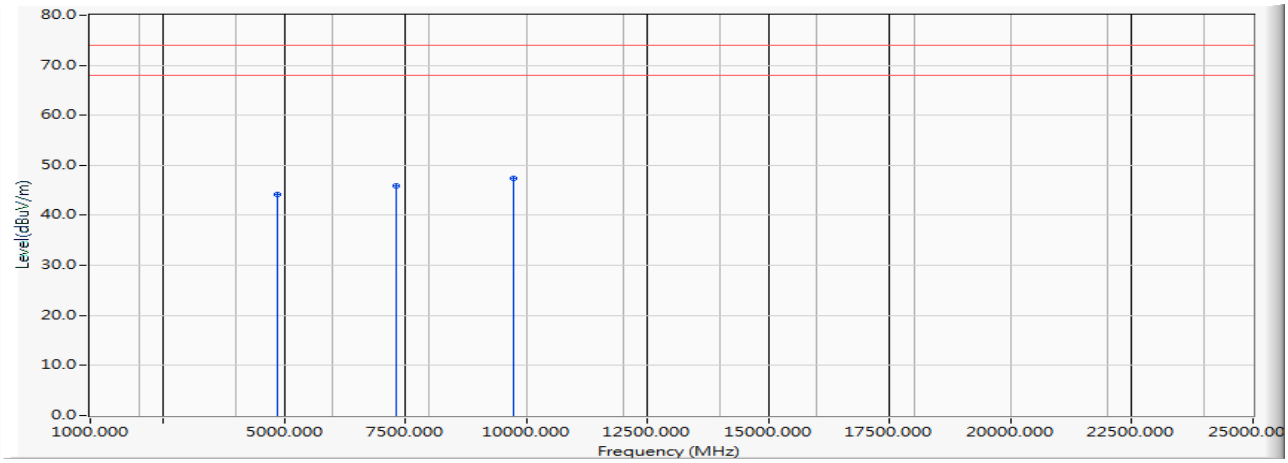
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-15.675	56.420	40.745	-33.255	74.000	PEAK
2	*	7236.000	-12.465	59.550	47.084	-26.916	74.000	PEAK
3		9648.000	-11.669	57.450	45.782	-28.218	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Horizontal



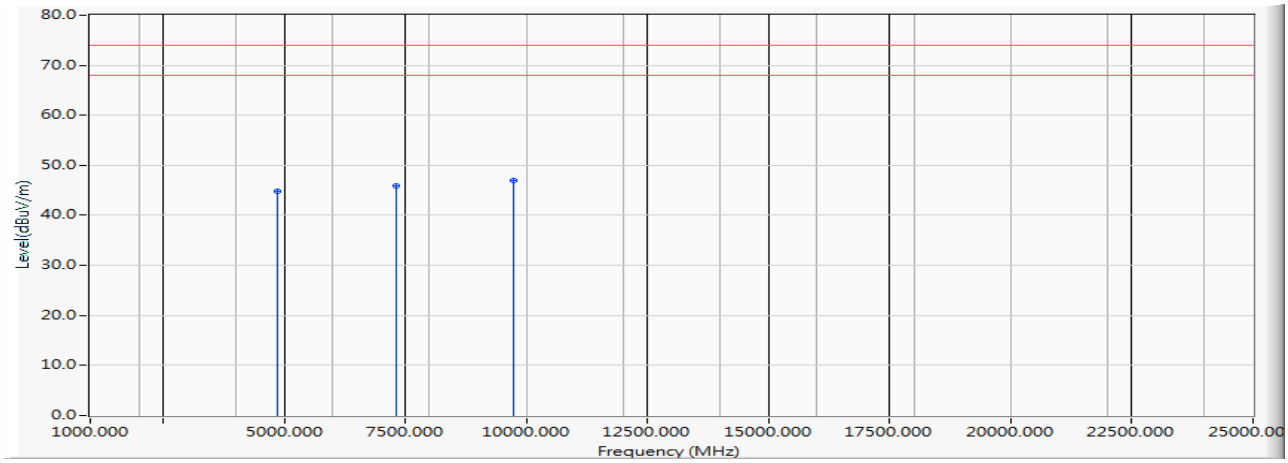
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	59.370	44.251	-29.749	74.000	PEAK
2		7311.000	-12.975	58.840	45.865	-28.135	74.000	PEAK
3	*	9748.000	-10.878	58.260	47.383	-26.617	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Vertical



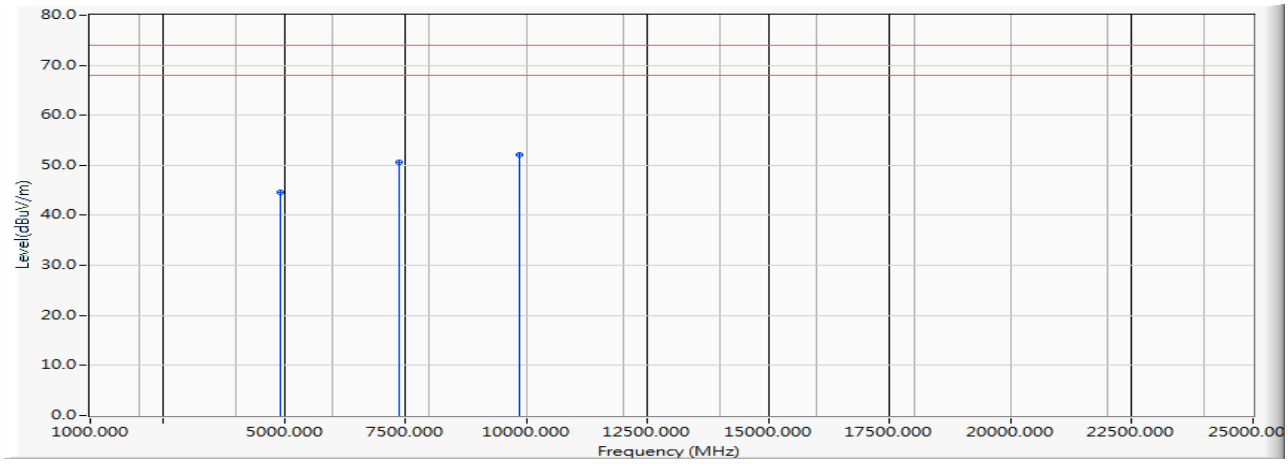
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	59.960	44.841	-29.159	74.000	PEAK
2		7311.000	-12.975	58.800	45.825	-28.175	74.000	PEAK
3	*	9748.000	-10.878	57.780	46.903	-27.097	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2462 MHz)

Horizontal



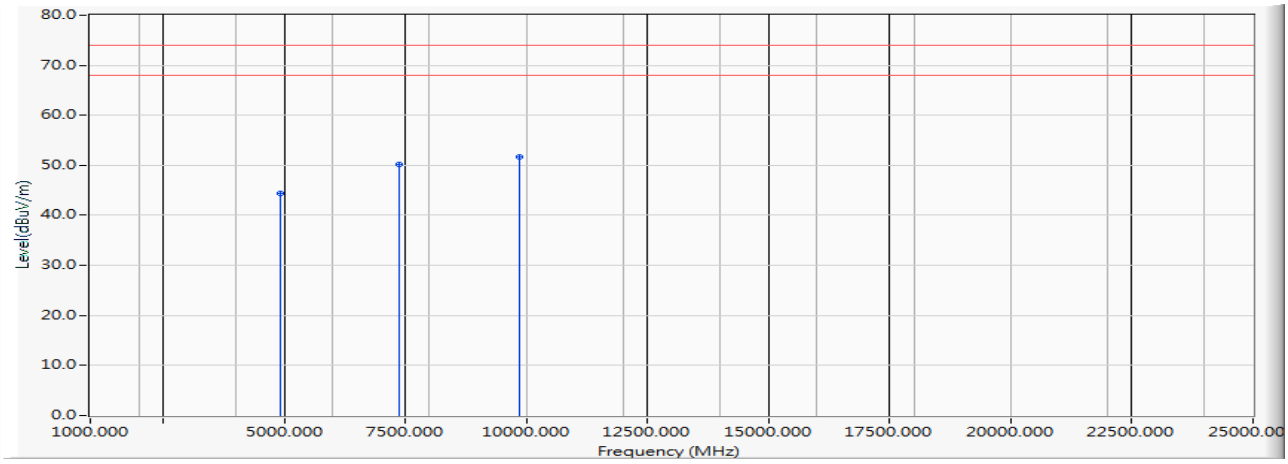
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-14.541	59.160	44.619	-29.381	74.000	PEAK
2		7386.000	-7.977	58.570	50.593	-3.407	54.000	PEAK
3	*	9848.000	-7.977	60.100	52.123	-1.877	54.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2462 MHz)

Vertical



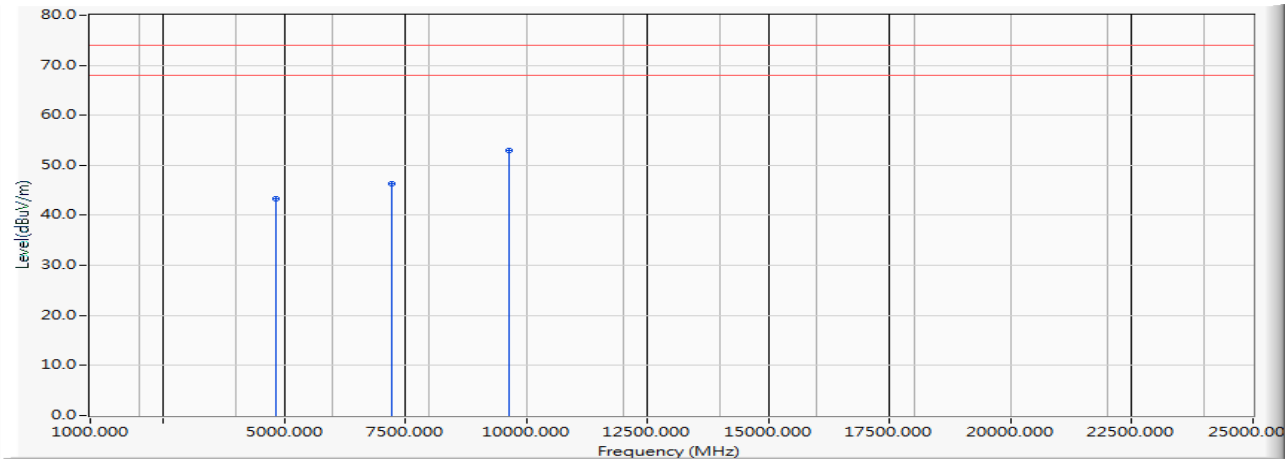
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-14.541	58.950	44.409	-29.591	74.000	PEAK
2		7386.000	-7.977	58.180	50.203	-3.797	54.000	PEAK
3	*	9848.000	-7.977	59.690	51.713	-2.287	54.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2412 MHz)

Horizontal



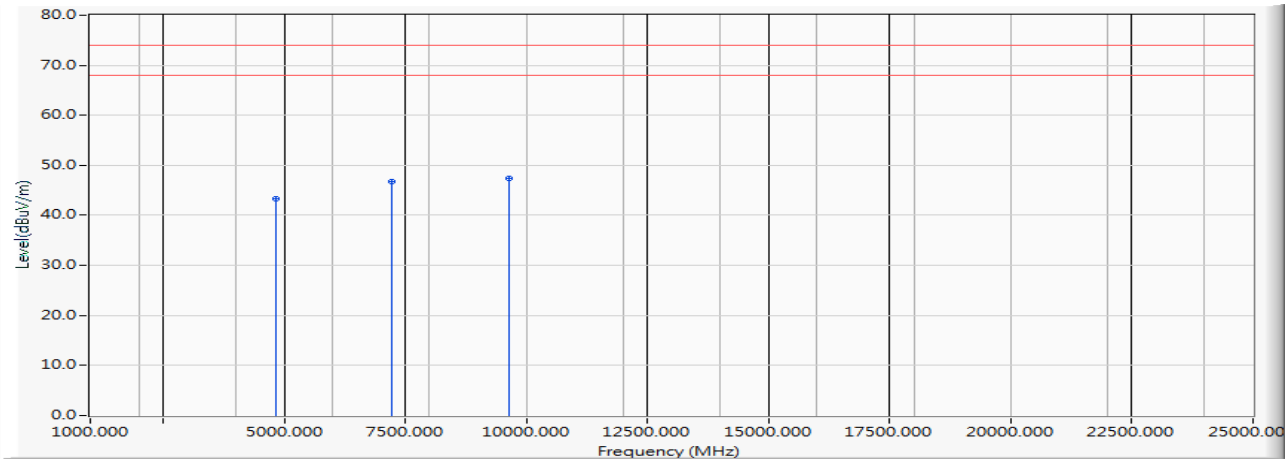
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-15.675	58.920	43.245	-30.755	74.000	PEAK
2		7236.000	-12.465	58.830	46.364	-27.636	74.000	PEAK
3	*	9648.000	-7.977	60.910	52.933	-1.067	54.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2412 MHz)

Vertical



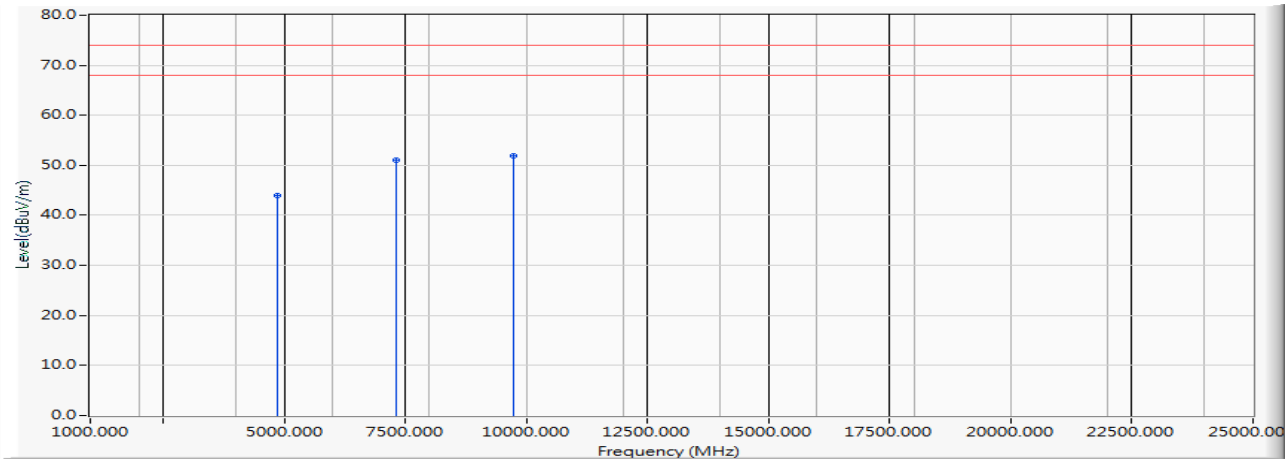
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-15.675	58.980	43.305	-30.695	74.000	PEAK
2		7236.000	-12.465	59.240	46.774	-27.226	74.000	PEAK
3	*	9648.000	-11.669	59.120	47.452	-26.548	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Horizontal



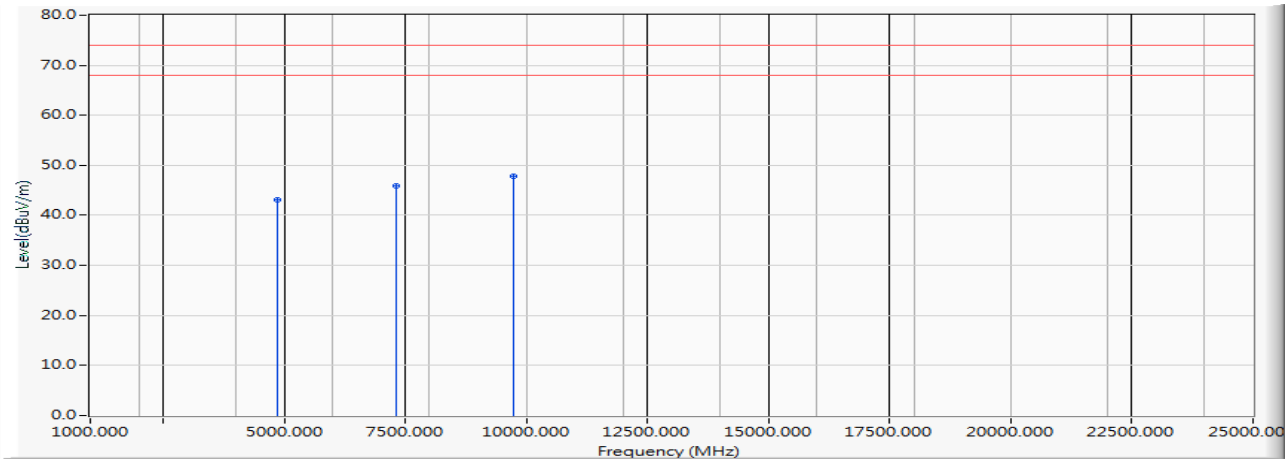
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	59.120	44.001	-29.999	74.000	PEAK
2		7311.000	-7.977	59.020	51.043	-2.957	54.000	PEAK
3	*	9748.000	-7.977	59.900	51.923	-2.077	54.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Vertical



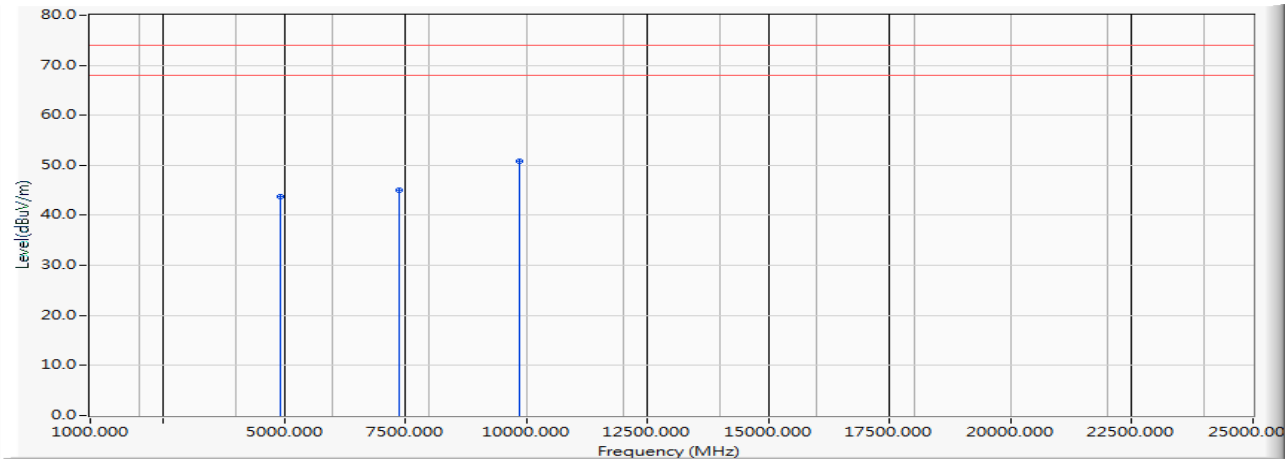
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	58.170	43.051	-30.949	74.000	PEAK
2		7311.000	-12.975	58.780	45.805	-28.195	74.000	PEAK
3	*	9748.000	-10.878	58.710	47.833	-26.167	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

Horizontal



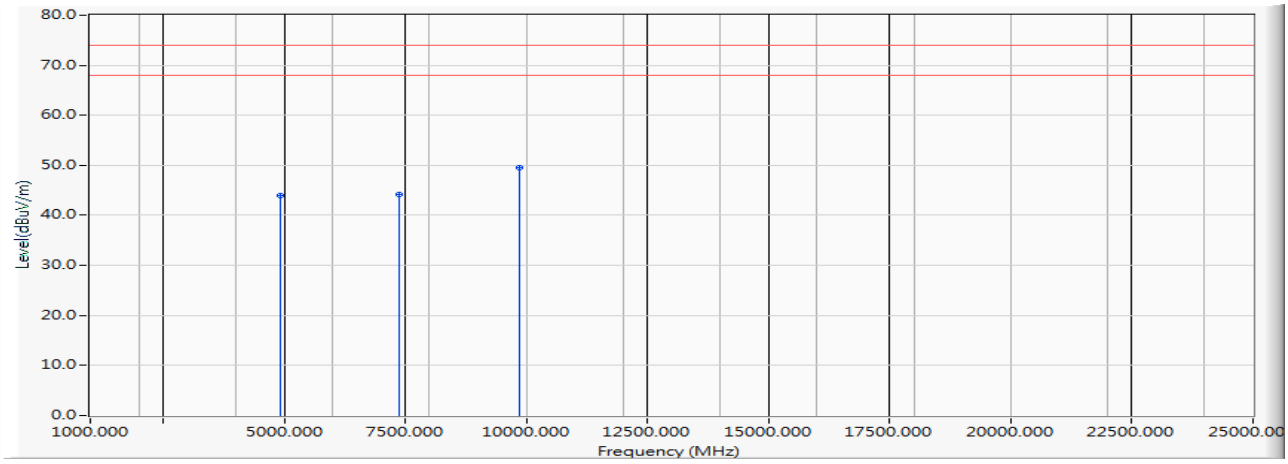
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-14.541	58.260	43.719	-30.281	74.000	PEAK
2		7386.000	-13.881	59.020	45.138	-28.862	74.000	PEAK
3	*	9848.000	-11.833	62.710	50.877	-23.123	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

Vertical



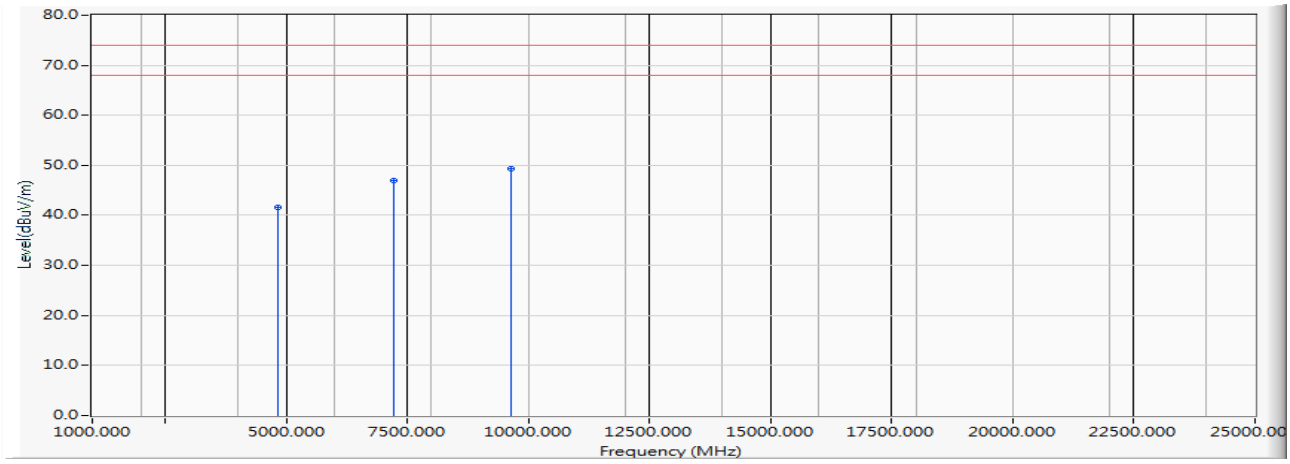
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-14.541	58.550	44.009	-29.991	74.000	PEAK
2		7386.000	-13.881	58.170	44.288	-29.712	74.000	PEAK
3	*	9848.000	-11.833	61.370	49.537	-24.463	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2412 MHz)

Horizontal



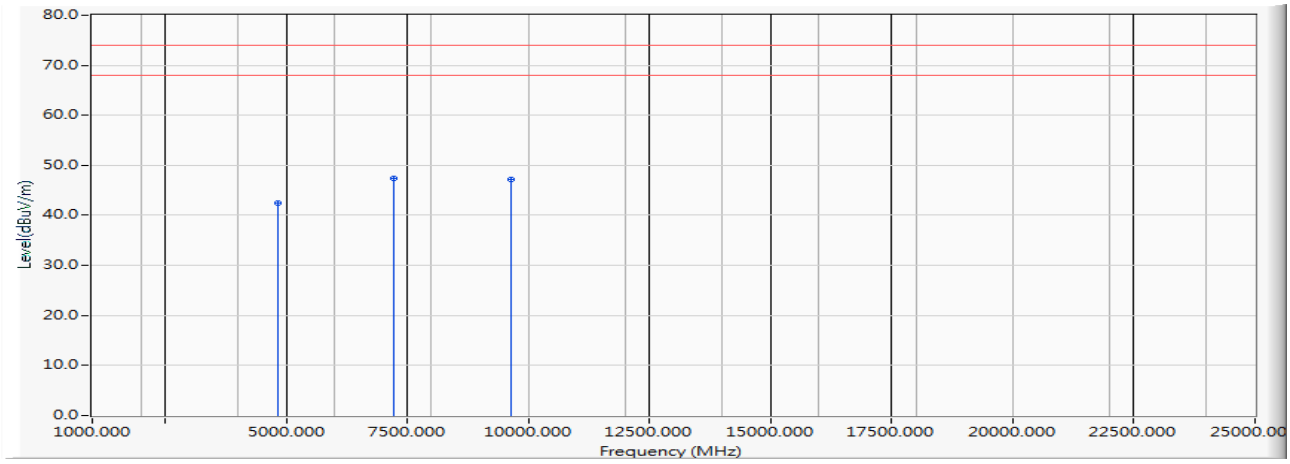
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-15.675	57.390	41.715	-32.285	74.000	PEAK
2		7236.000	-12.465	59.330	46.864	-27.136	74.000	PEAK
3	*	9648.000	-11.669	61.030	49.362	-24.638	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2442 MHz)

Vertical



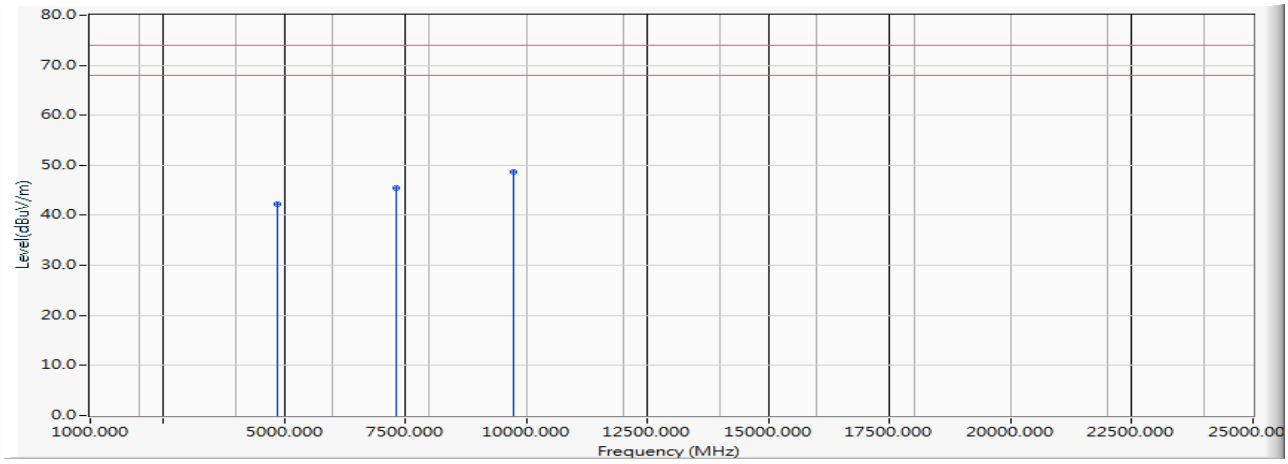
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-15.675	58.130	42.455	-31.545	74.000	PEAK
2	*	7236.000	-12.465	59.930	47.464	-26.536	74.000	PEAK
3		9648.000	-11.669	58.840	47.172	-26.828	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2437 MHz)

Horizontal



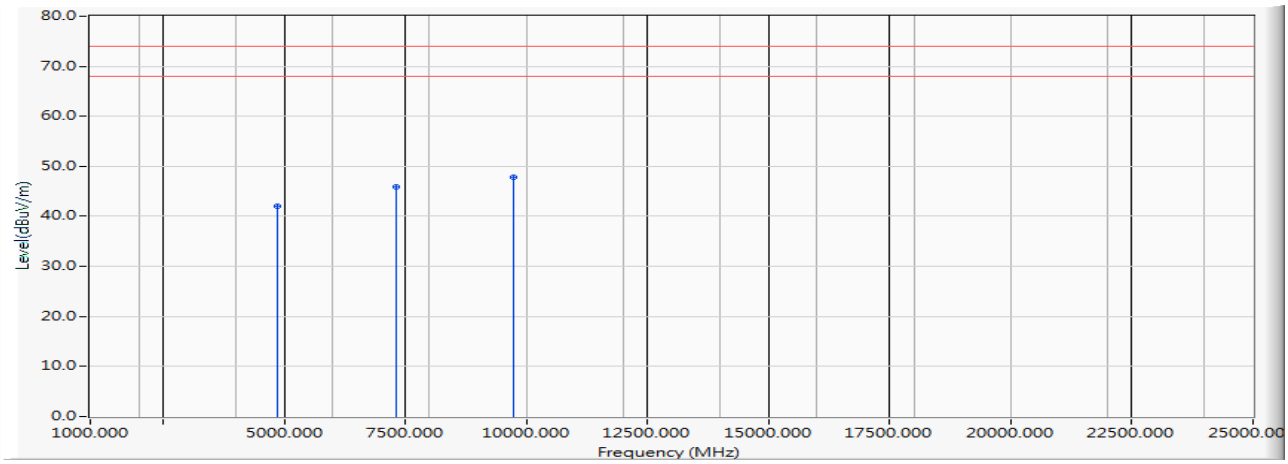
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	57.310	42.191	-31.809	74.000	PEAK
2		7311.000	-12.975	58.550	45.575	-28.425	74.000	PEAK
3	*	9748.000	-10.878	59.510	48.633	-25.367	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2437 MHz)

Vertical



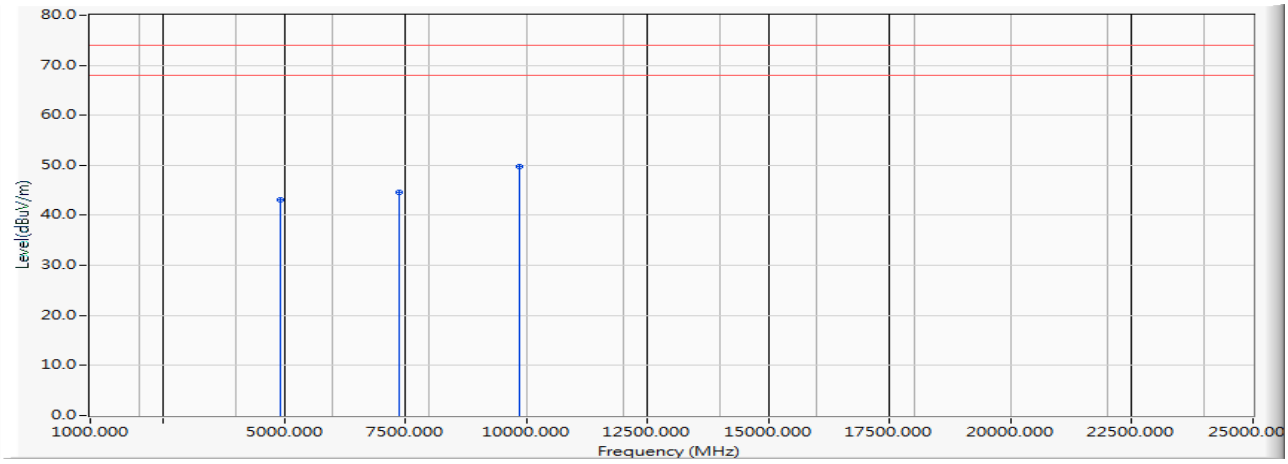
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	57.220	42.101	-31.899	74.000	PEAK
2		7311.000	-12.975	58.860	45.885	-28.115	74.000	PEAK
3	*	9748.000	-10.878	58.810	47.933	-26.067	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2462 MHz)

Horizontal



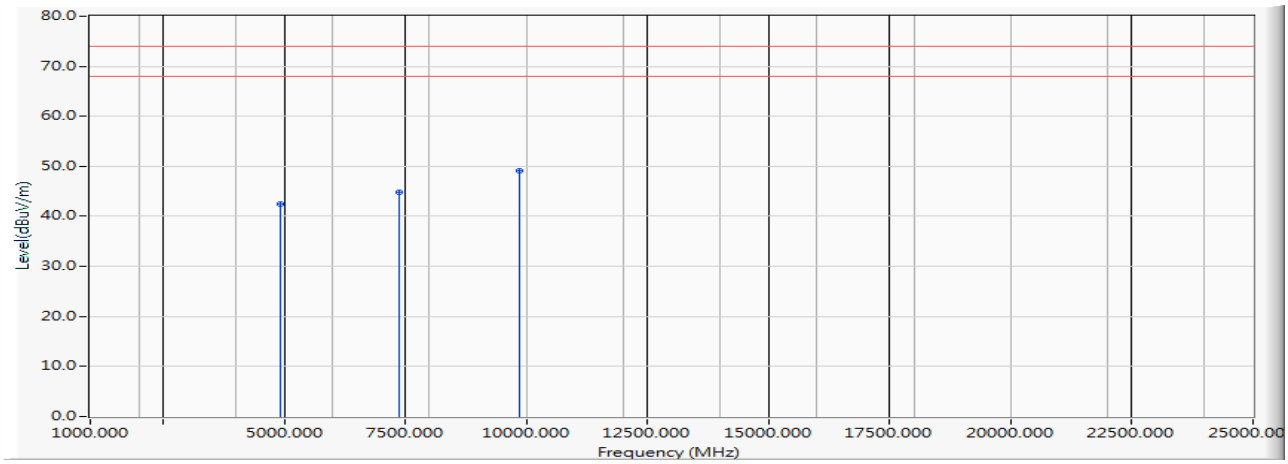
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-14.541	57.590	43.049	-30.951	74.000	PEAK
2		7386.000	-13.881	58.410	44.528	-29.472	74.000	PEAK
3	*	9848.000	-11.833	61.570	49.737	-24.263	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2018/08/30
Test Mode	:	Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2462 MHz)

Vertical



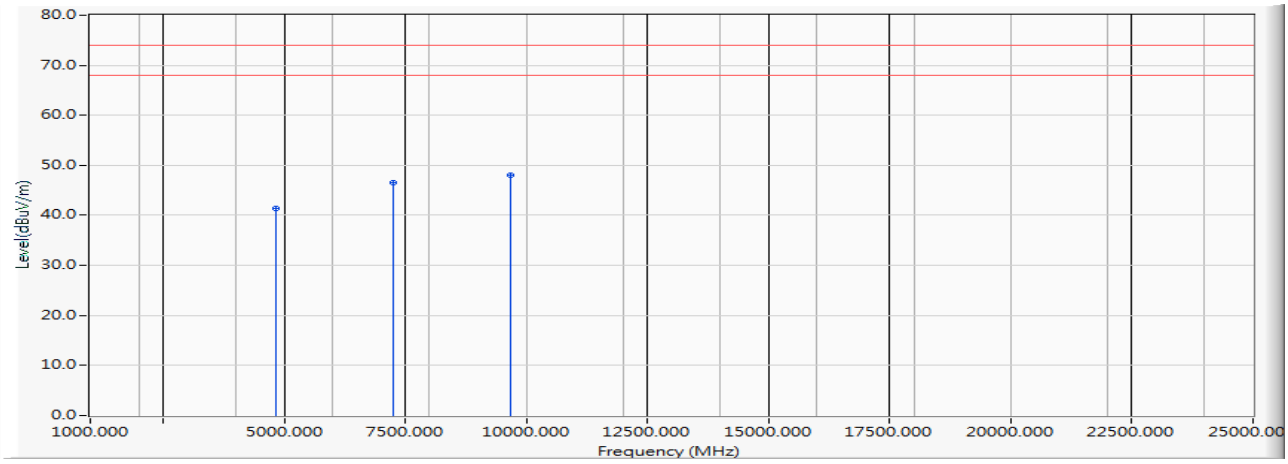
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-14.541	57.010	42.469	-31.531	74.000	PEAK
2		7386.000	-13.881	58.750	44.868	-29.132	74.000	PEAK
3	*	9848.000	-11.833	60.980	49.147	-24.853	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2422 MHz)

Horizontal



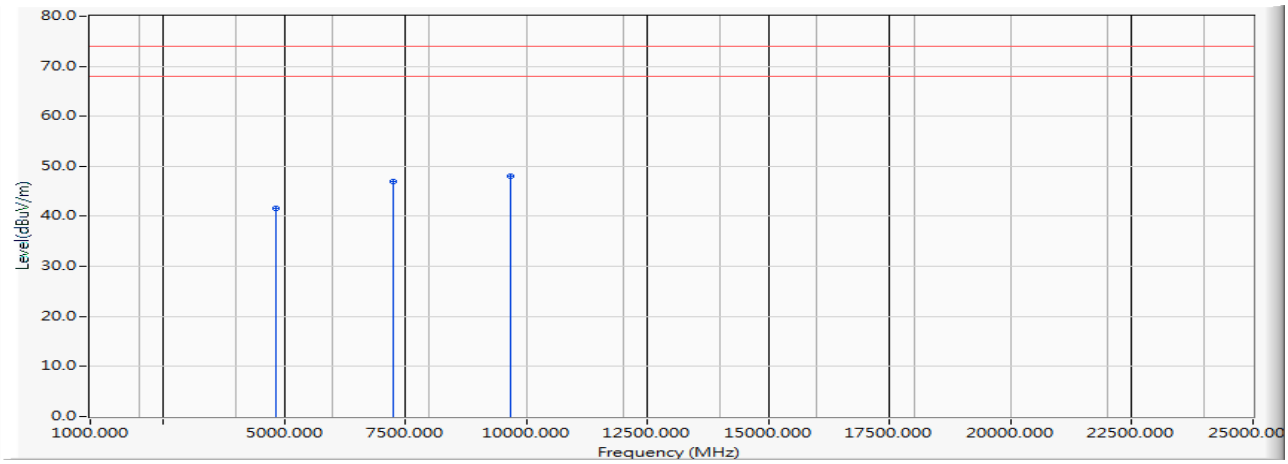
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-15.452	56.930	41.478	-32.522	74.000	PEAK
2		7266.000	-12.534	58.980	46.446	-27.554	74.000	PEAK
3	*	9688.000	-11.387	59.340	47.953	-26.047	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2422 MHz)

Vertical



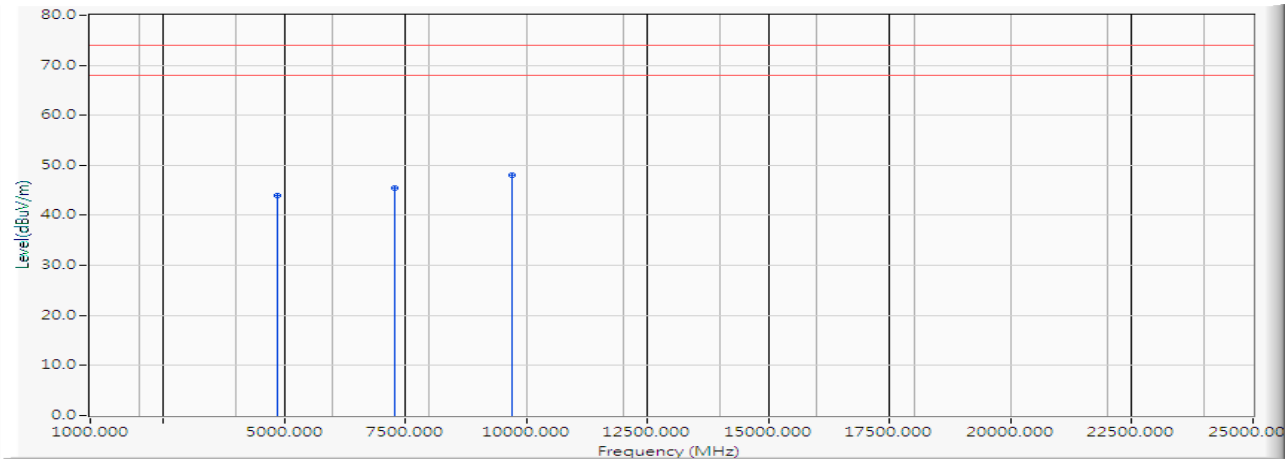
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-15.452	57.130	41.678	-32.322	74.000	PEAK
2		7266.000	-12.534	59.450	46.916	-27.084	74.000	PEAK
3	*	9688.000	-11.387	59.430	48.043	-25.957	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2427 MHz)

Horizontal



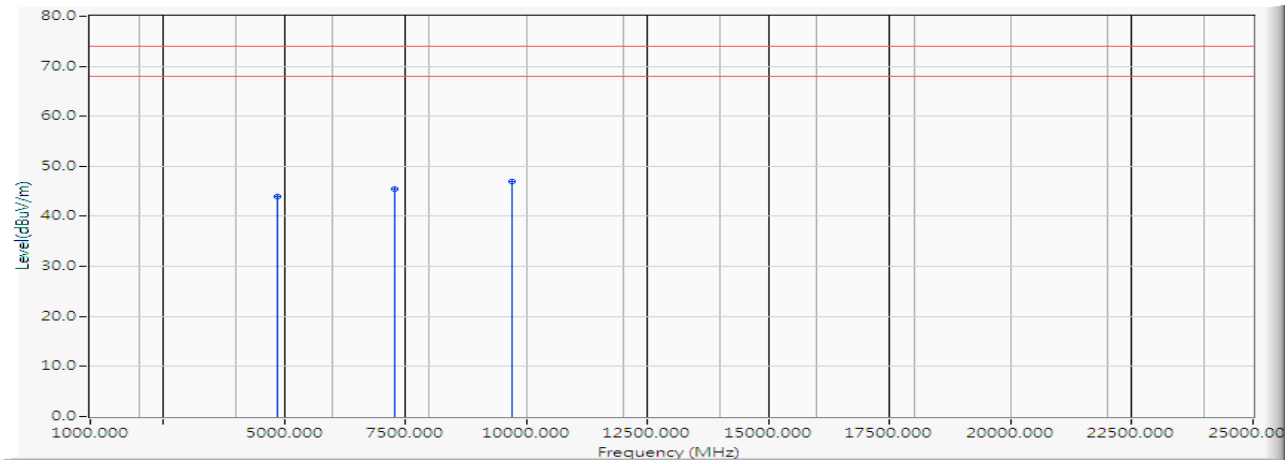
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4854.000	-14.687	58.740	44.053	-29.947	74.000	PEAK
2		7281.000	-12.106	57.680	45.575	-28.425	74.000	PEAK
3	*	9708.000	-11.003	58.950	47.948	-26.052	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2427 MHz)

Vertical



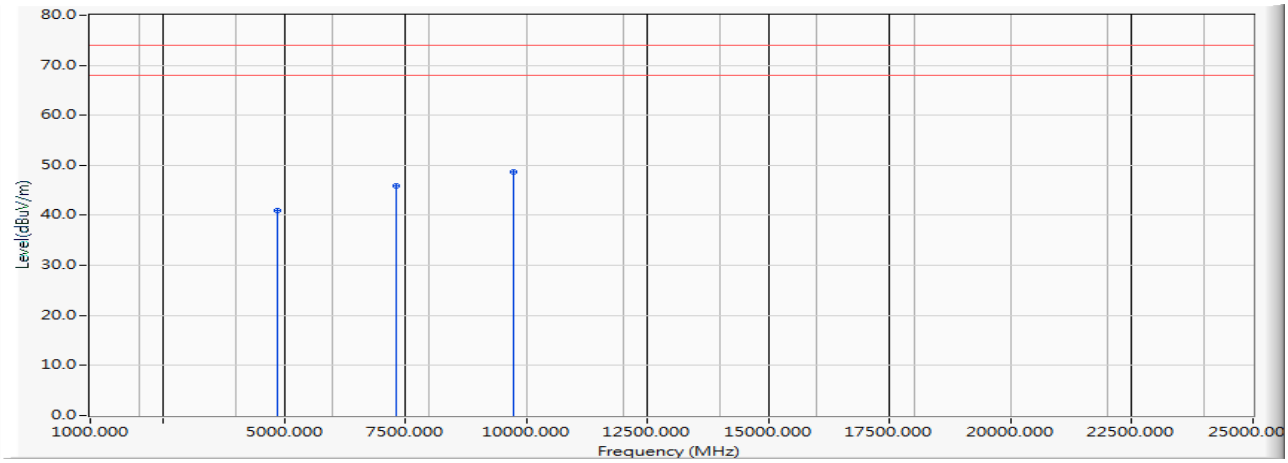
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4854.000	-14.687	58.730	44.043	-29.957	74.000	PEAK
2		7281.000	-12.106	57.470	45.365	-28.635	74.000	PEAK
3	*	9708.000	-11.003	57.870	46.868	-27.132	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2437MHz)

Horizontal



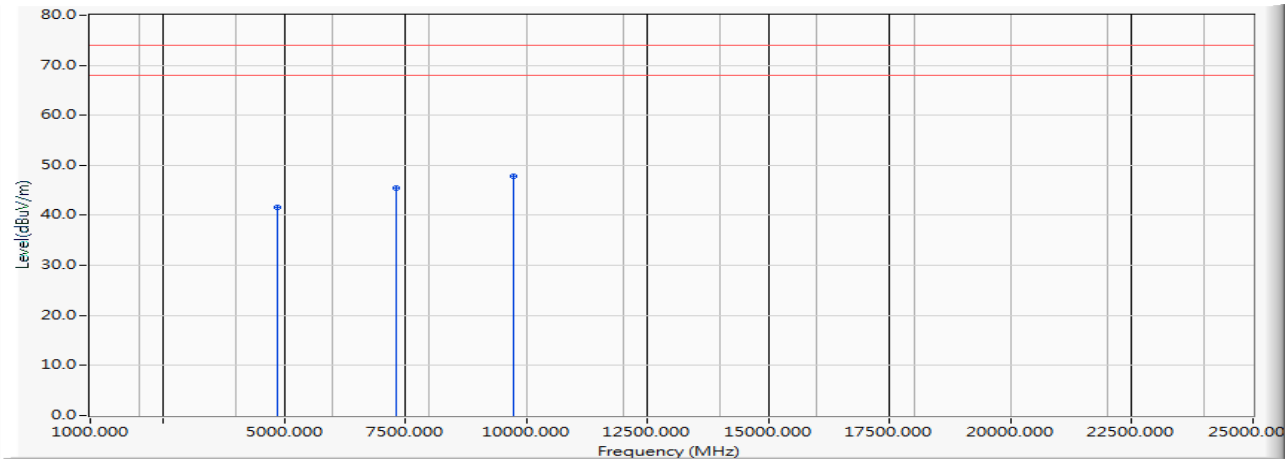
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	56.090	40.971	-33.029	74.000	PEAK
2		7311.000	-12.975	58.830	45.855	-28.145	74.000	PEAK
3	*	9748.000	-10.878	59.550	48.673	-25.327	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2437MHz)

Vertical



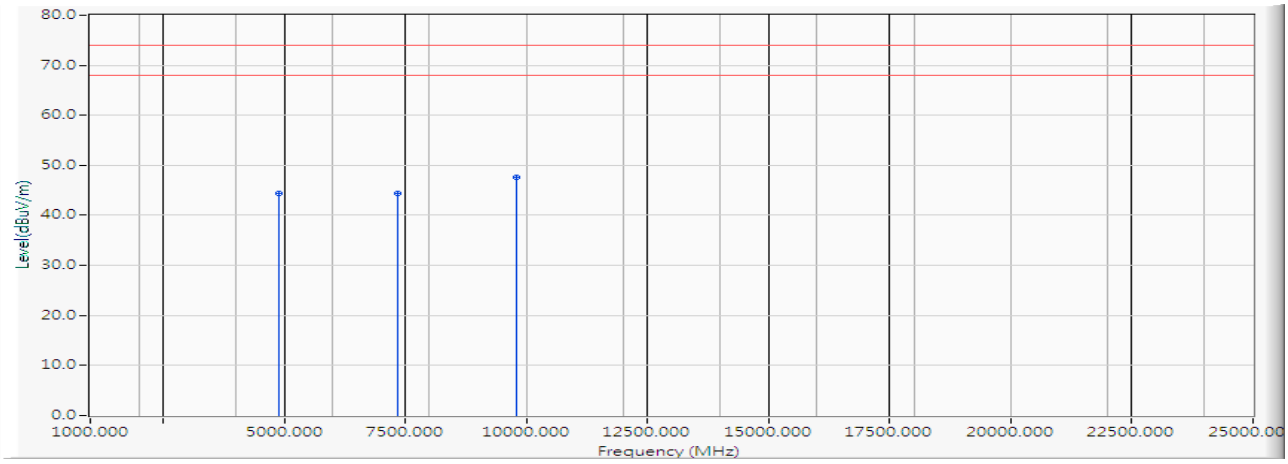
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-15.119	56.640	41.521	-32.479	74.000	PEAK
2		7311.000	-12.975	58.490	45.515	-28.485	74.000	PEAK
3	*	9748.000	-10.878	58.630	47.753	-26.247	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2447 MHz)

Horizontal



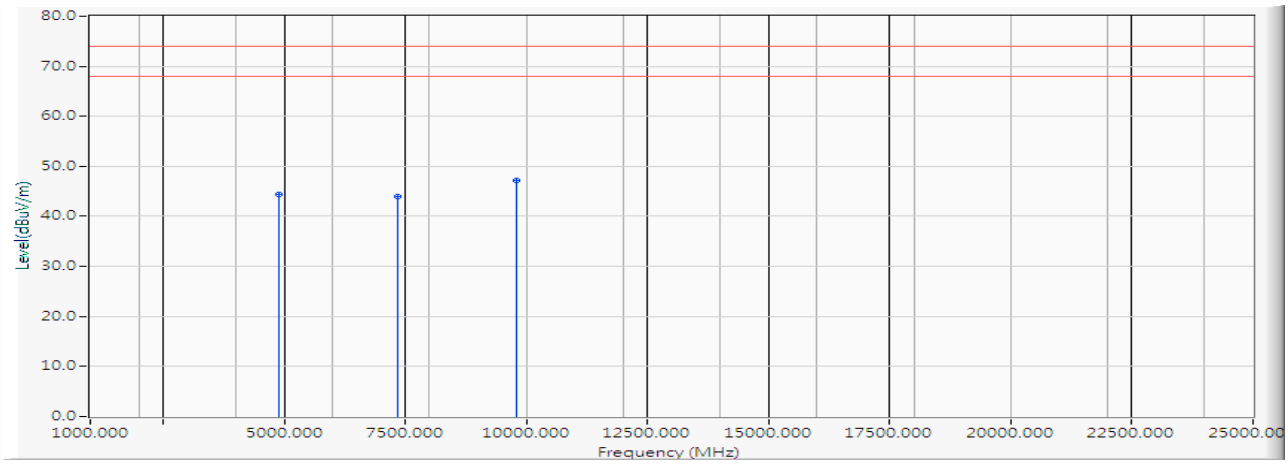
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4894.000	-14.246	58.620	44.374	-29.626	74.000	PEAK
2		7341.000	-12.786	57.230	44.444	-29.556	74.000	PEAK
3	*	9788.000	-10.915	58.430	47.515	-26.485	74.000	PEAK

Note:

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

Product	:	Rugged Tablet
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2019/08/30
Test Mode	:	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2447 MHz)

Vertical



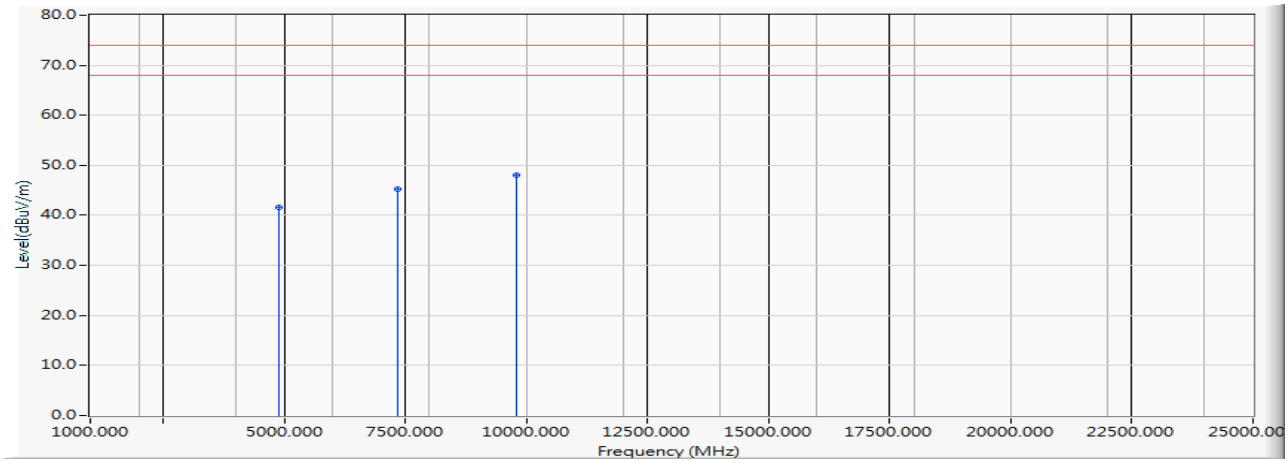
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4894.000	-14.246	58.700	44.454	-29.546	74.000	PEAK
2		7341.000	-12.786	56.810	44.024	-29.976	74.000	PEAK
3	*	9788.000	-10.915	58.100	47.185	-26.815	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2452 MHz)

Horizontal



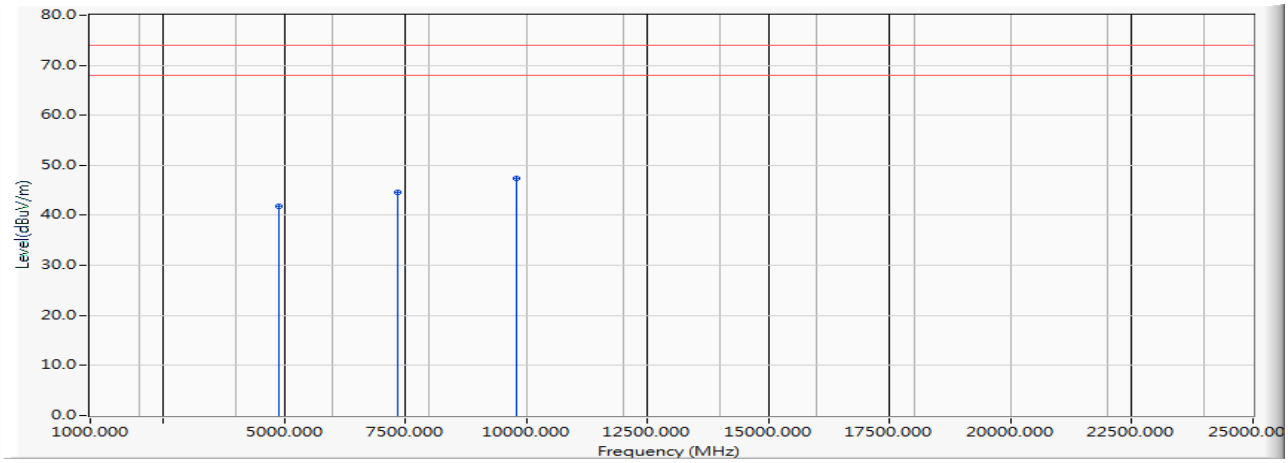
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-14.781	56.380	41.600	-32.400	74.000	PEAK
2		7356.000	-13.519	58.700	45.181	-28.819	74.000	PEAK
3	*	9808.000	-11.348	59.390	48.042	-25.958	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : Harmonic Radiated Emission Data
Test Date : 2019/08/30
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2452 MHz)

Vertical



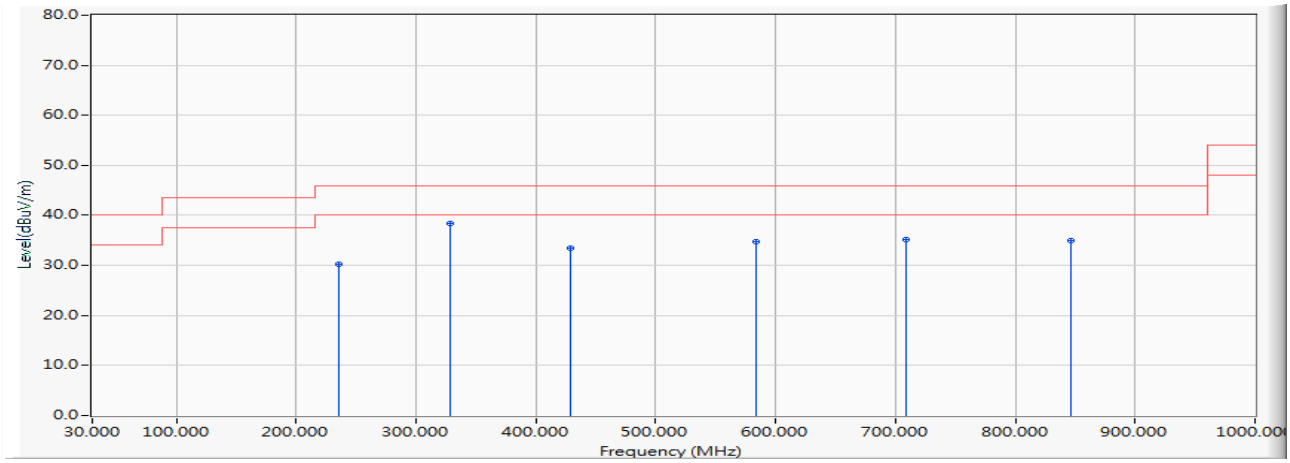
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-14.781	56.630	41.850	-32.150	74.000	PEAK
2		7356.000	-13.519	58.220	44.701	-29.299	74.000	PEAK
3	*	9808.000	-11.348	58.670	47.322	-26.678	74.000	PEAK

Note:

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

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Horizontal



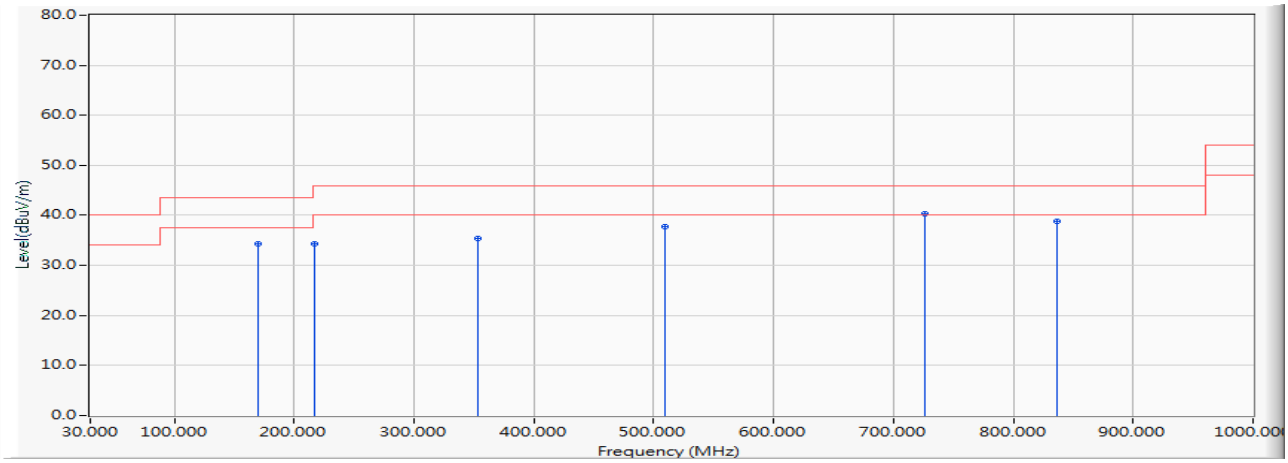
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		235.246	-18.092	48.402	30.310	-15.690	46.000	QUASIPEAK
2	*	328.029	-14.040	52.481	38.440	-7.560	46.000	QUASIPEAK
3		429.246	-11.158	44.540	33.382	-12.618	46.000	QUASIPEAK
4		583.884	-7.293	42.136	34.843	-11.157	46.000	QUASIPEAK
5		709.000	-9.027	44.308	35.281	-10.719	46.000	QUASIPEAK
6		846.768	-8.233	43.196	34.963	-11.037	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Vertical



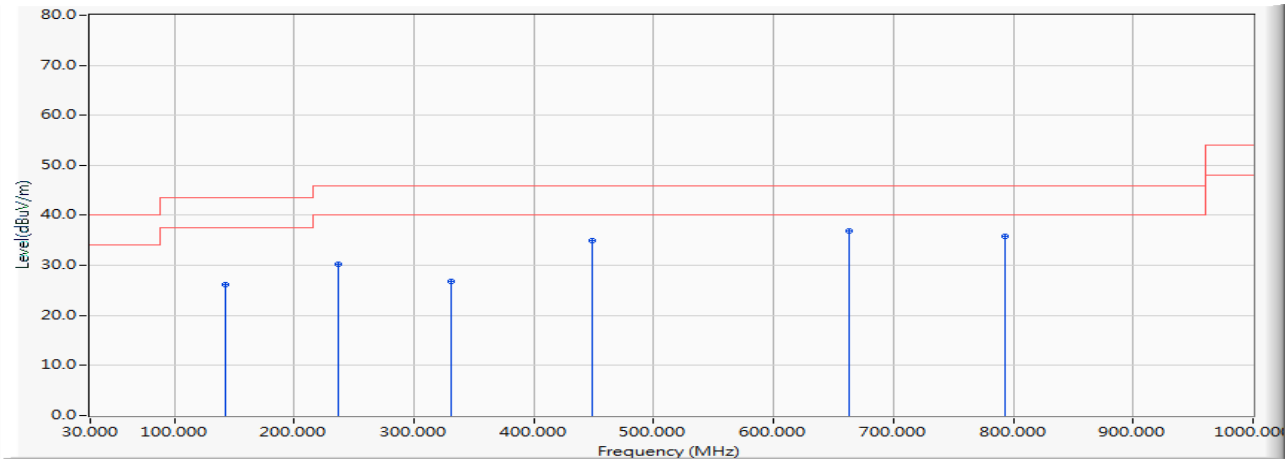
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		170.580	-20.158	54.417	34.258	-9.242	43.500	QUASIPEAK
2		216.971	-18.105	52.410	34.305	-11.695	46.000	QUASIPEAK
3		353.333	-13.141	48.506	35.365	-10.635	46.000	QUASIPEAK
4		509.377	-11.053	48.831	37.778	-8.222	46.000	QUASIPEAK
5	*	725.870	-7.901	48.130	40.229	-5.771	46.000	QUASIPEAK
6		836.928	-8.432	47.350	38.918	-7.082	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Horizontal



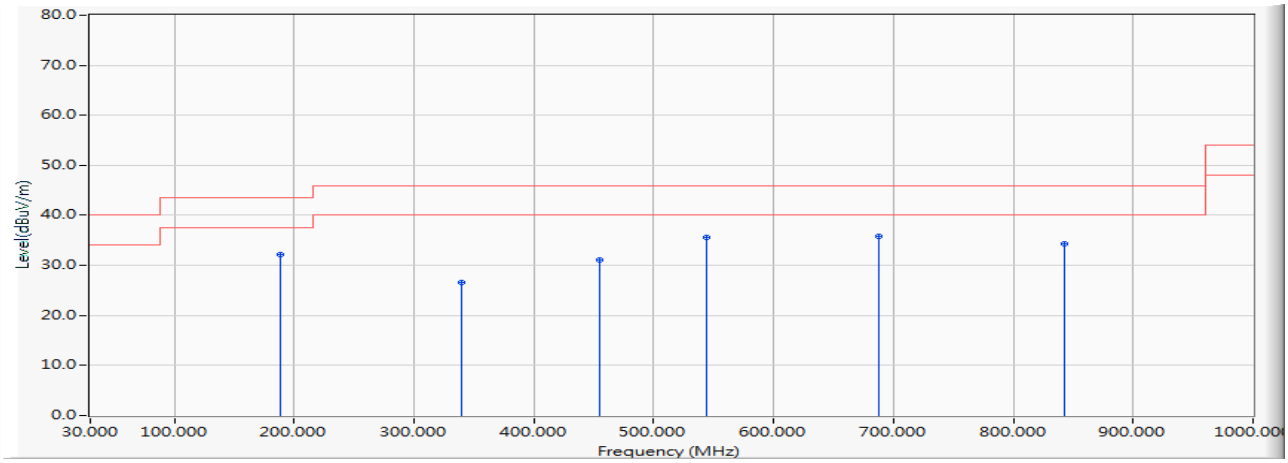
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		142.464	-18.156	44.292	26.135	-17.365	43.500	QUASIPEAK
2		236.652	-18.233	48.415	30.182	-15.818	46.000	QUASIPEAK
3		330.841	-14.031	40.927	26.895	-19.105	46.000	QUASIPEAK
4		448.928	-10.150	45.010	34.860	-11.140	46.000	QUASIPEAK
5	*	662.609	-9.918	46.909	36.990	-9.010	46.000	QUASIPEAK
6		793.348	-8.745	44.596	35.851	-10.149	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2437 MHz)

Vertical



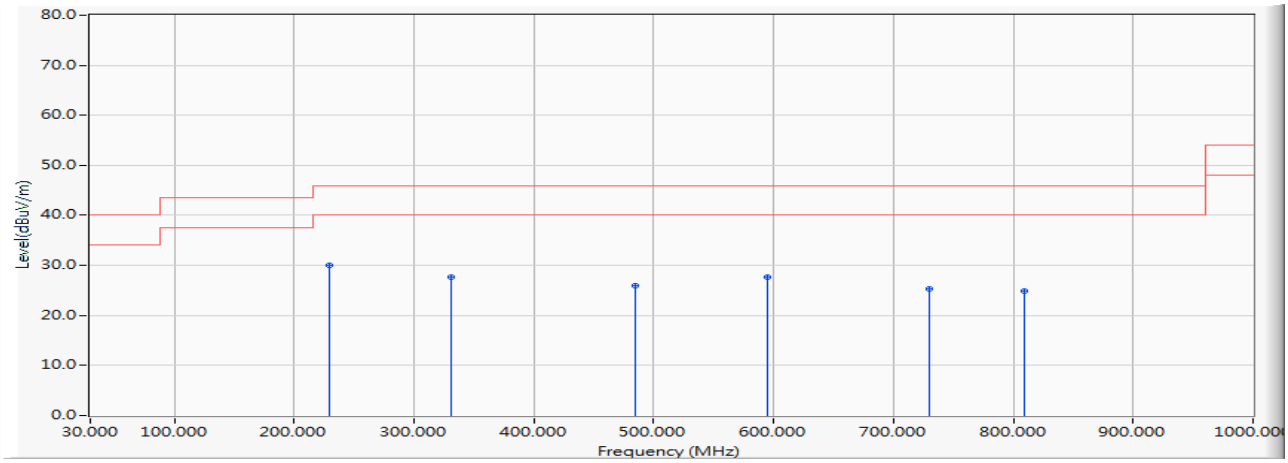
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		188.855	-18.795	50.908	32.113	-11.387	43.500	QUASIPEAK
2		339.275	-13.999	40.674	26.676	-19.324	46.000	QUASIPEAK
3		454.551	-10.341	41.427	31.086	-14.914	46.000	QUASIPEAK
4		544.522	-11.194	46.776	35.582	-10.418	46.000	QUASIPEAK
5	*	687.913	-9.202	44.942	35.740	-10.260	46.000	QUASIPEAK
6		842.551	-8.267	42.637	34.370	-11.630	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2437 MHz)

Horizontal



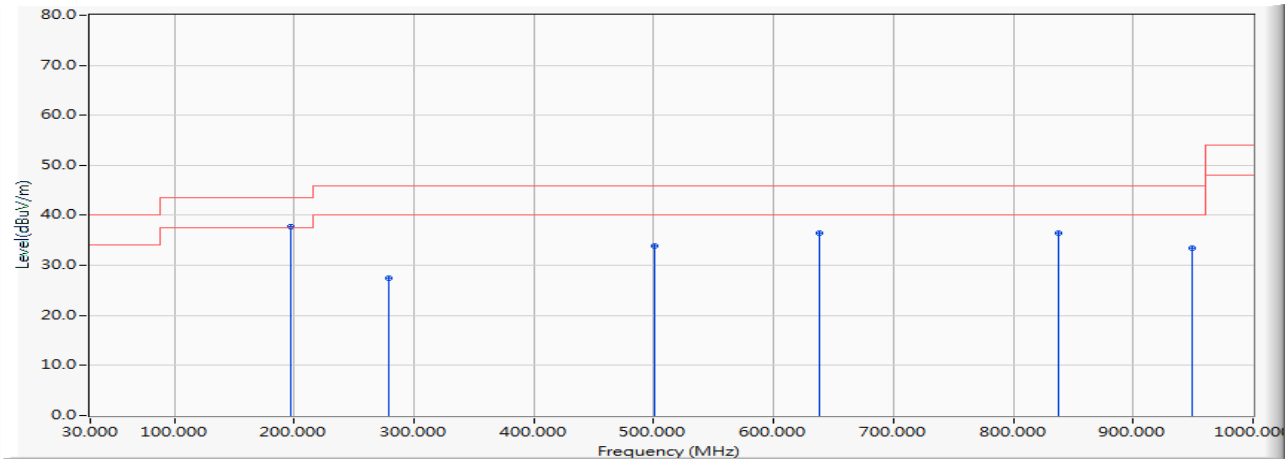
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	229.623	-17.632	47.702	30.069	-15.931	46.000	QUASIPEAK
2		330.841	-14.031	41.727	27.695	-18.305	46.000	QUASIPEAK
3		484.072	-11.922	37.801	25.880	-20.120	46.000	QUASIPEAK
4		595.130	-6.778	34.386	27.609	-18.391	46.000	QUASIPEAK
5		730.087	-7.175	32.566	25.392	-20.608	46.000	QUASIPEAK
6		808.812	-8.884	33.787	24.903	-21.097	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2437 MHz)

Vertical



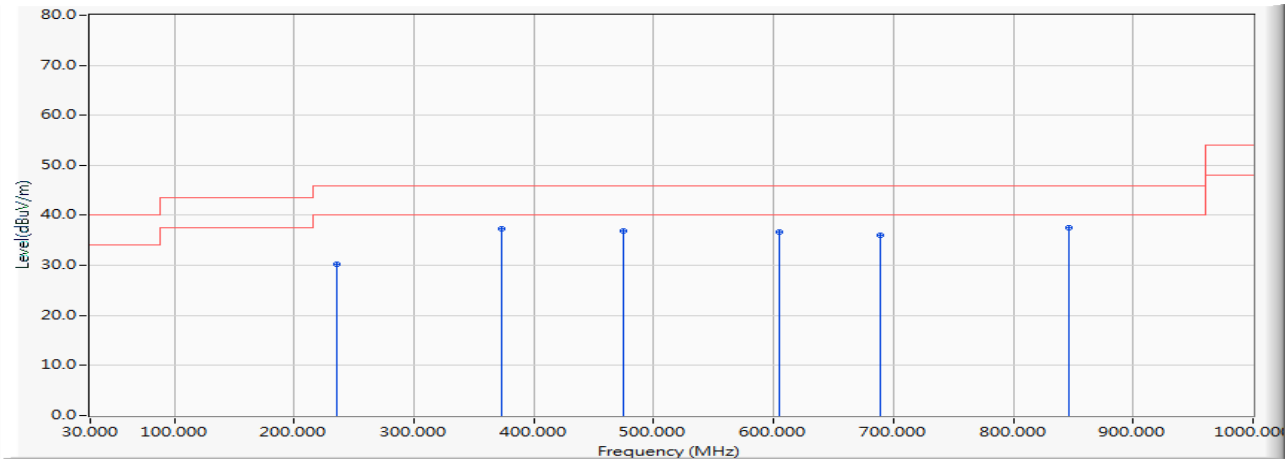
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	197.290	-18.285	56.104	37.819	-5.681	43.500	QUASIPEAK
2		278.826	-18.313	45.747	27.434	-18.566	46.000	QUASIPEAK
3		500.942	-10.881	44.827	33.947	-12.053	46.000	QUASIPEAK
4		638.710	-8.734	45.262	36.527	-9.473	46.000	QUASIPEAK
5		838.333	-8.371	44.755	36.384	-9.616	46.000	QUASIPEAK
6		949.391	-8.569	42.087	33.518	-12.482	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2437Hz)

Horizontal



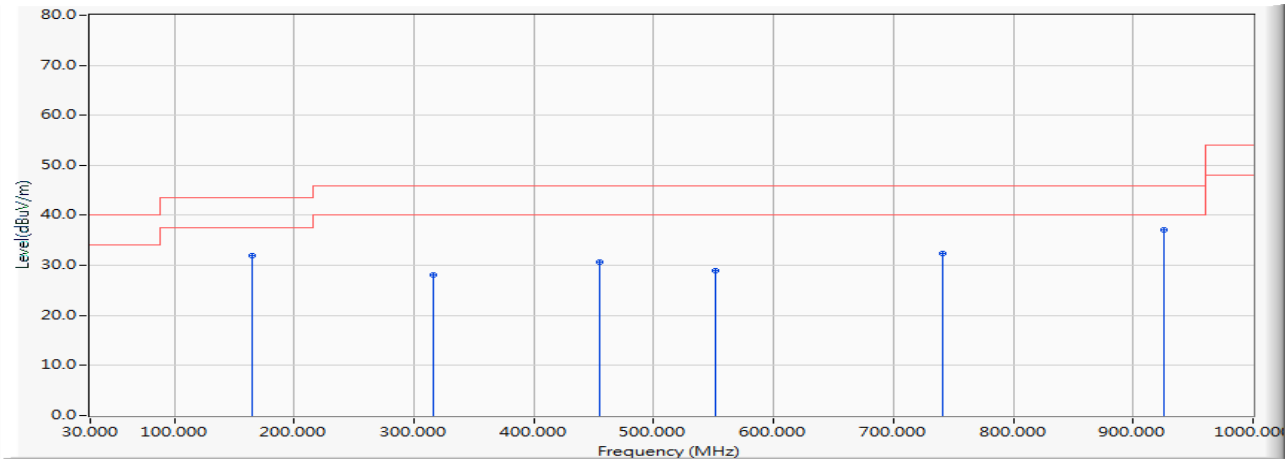
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		235.246	-18.092	48.267	30.175	-15.825	46.000	QUASIPEAK
2		373.014	-12.303	49.651	37.349	-8.651	46.000	QUASIPEAK
3		474.232	-11.724	48.596	36.872	-9.128	46.000	QUASIPEAK
4		604.971	-6.911	43.559	36.648	-9.352	46.000	QUASIPEAK
5		689.319	-9.189	45.292	36.103	-9.897	46.000	QUASIPEAK
6	*	846.768	-8.233	45.720	37.487	-8.513	46.000	QUASIPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Rugged Tablet
Test Item : General Radiated Emission Data
Test Date : 2019/08/29
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2437 MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		164.957	-20.477	52.409	31.933	-11.567	43.500	QUASIPEAK
2		316.783	-14.163	42.194	28.032	-17.968	46.000	QUASIPEAK
3		454.551	-10.341	41.112	30.771	-15.229	46.000	QUASIPEAK
4		551.551	-10.891	39.775	28.884	-17.116	46.000	QUASIPEAK
5		741.333	-5.610	37.944	32.334	-13.666	46.000	QUASIPEAK
6	*	925.493	-9.831	46.829	36.998	-9.002	46.000	QUASIPEAK

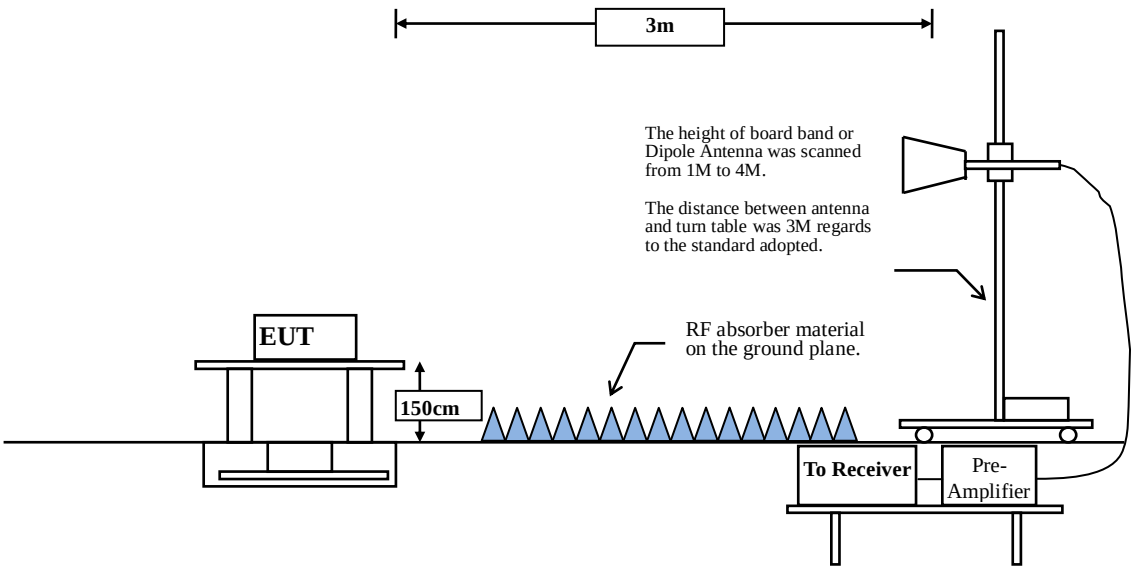
Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

4. Band Edge

4.1. Test Setup

RF Radiated Measurement:



4.2. Limits

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

The final test results meets all the applicable FCC rules, including FCC Part 15C and Part 22H, Part 24E, Part 27 Part 90.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

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

RBW and VBW Parameter setting:

According to KDB 558074 Peak power measurement procedure

RBW = as specified in Table 1.

VBW ≥ 3 x RBW.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to KDB 558074 Average power measurement procedure

RBW = 1MHz.

VBW = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11b	98.84	12.3333	81	10
802.11g	93.29	2.0145	496	500
802.11n20	89.43	0.9565	1045	2000
802.11n40	67.39	0.4493	2226	3000

Note: Duty Cycle Refer to Section 5

4.4. Uncertainty

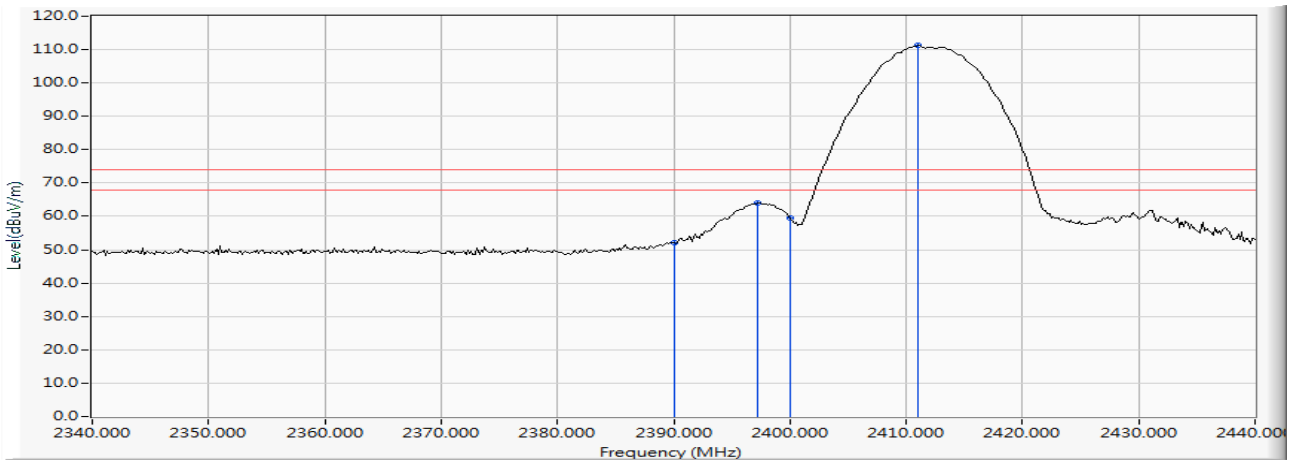
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

4.5. Test Result of Band Edge

Product	:	Rugged Tablet
Test Item	:	Band Edge
Test Date	:	2019/09/03
Test Mode	:	Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

Horizontal



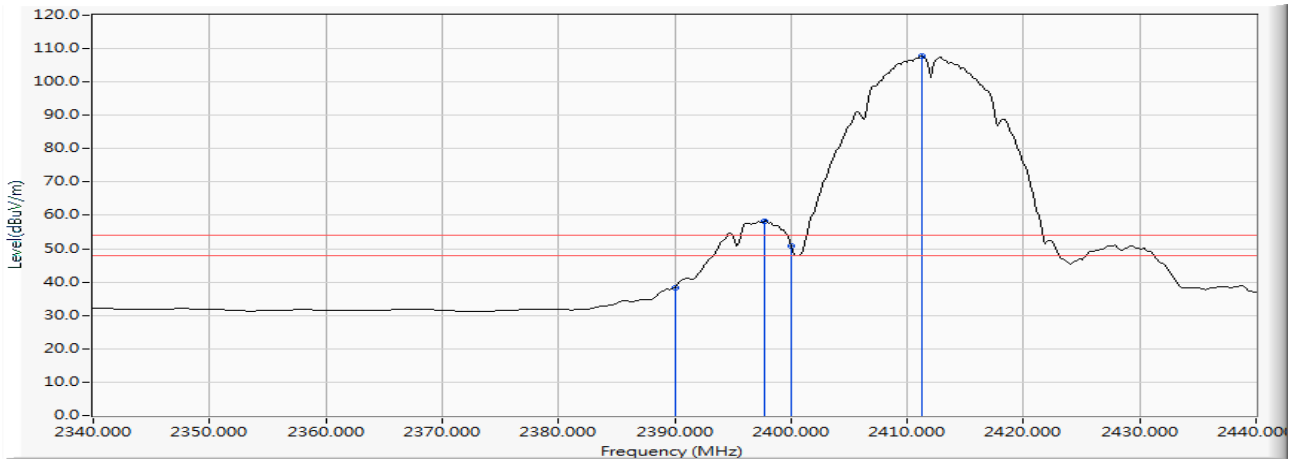
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	43.355	52.118	-21.882	74.000	PEAK
2		2397.246	8.790	55.224	64.013	-9.987	74.000	PEAK
3		2400.000	8.799	50.795	59.594	-14.406	74.000	PEAK
4	*	2411.014	8.838	102.342	111.180	37.180	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

Horizontal



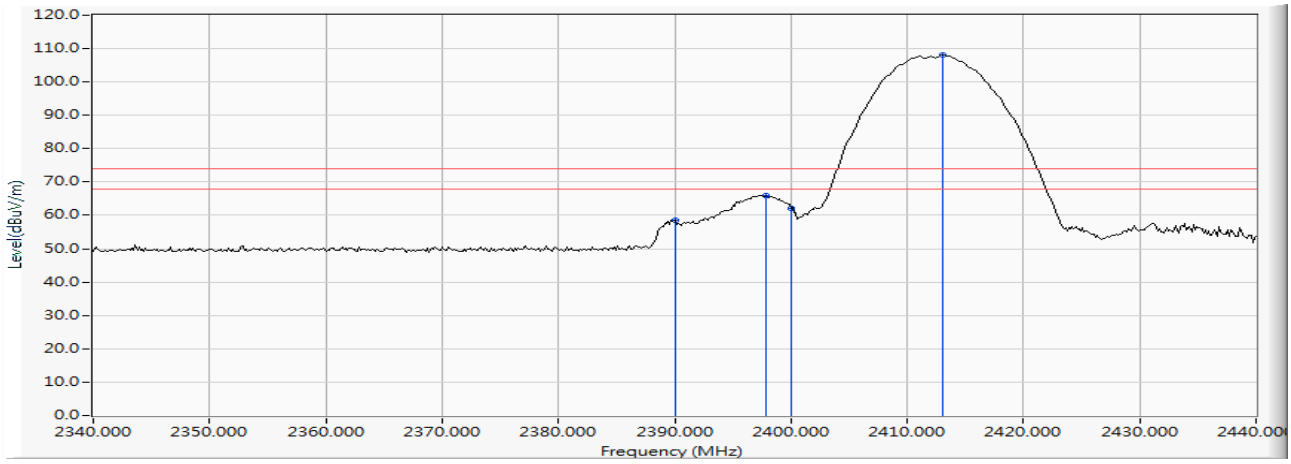
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	29.572	38.335	-15.665	54.000	AVERAGE
2		2397.681	8.791	49.596	58.387	4.387	54.000	AVERAGE
3		2400.000	8.799	42.011	50.810	-3.190	54.000	AVERAGE
4	*	2411.304	8.839	98.860	107.699	53.699	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

VERTICAL



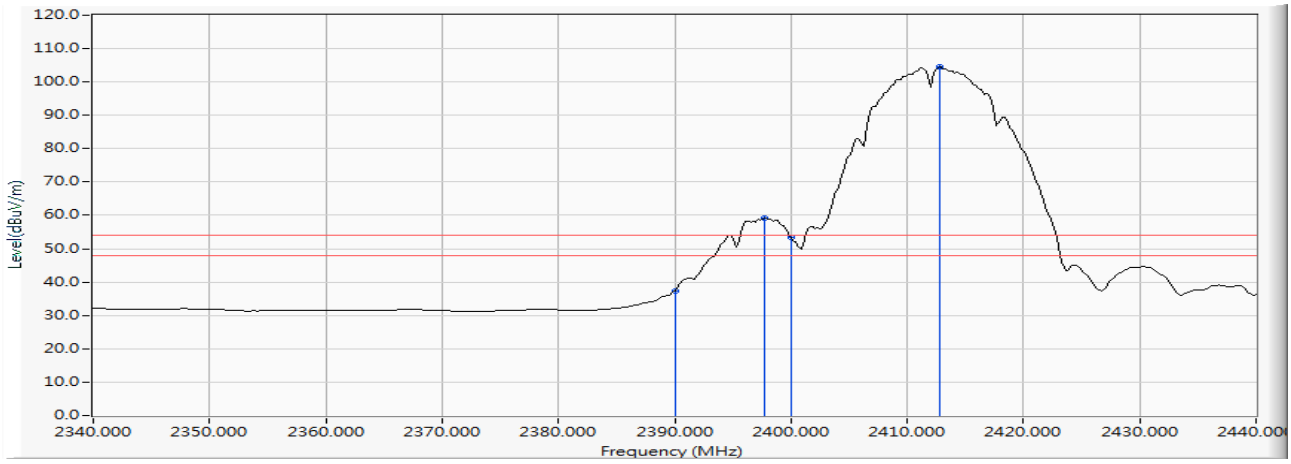
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	49.717	58.480	-15.520	74.000	PEAK
2		2397.826	8.791	57.270	66.061	-7.939	74.000	PEAK
3		2400.000	8.799	53.386	62.185	-11.815	74.000	PEAK
4	*	2413.043	8.846	99.219	108.064	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

VERTICAL



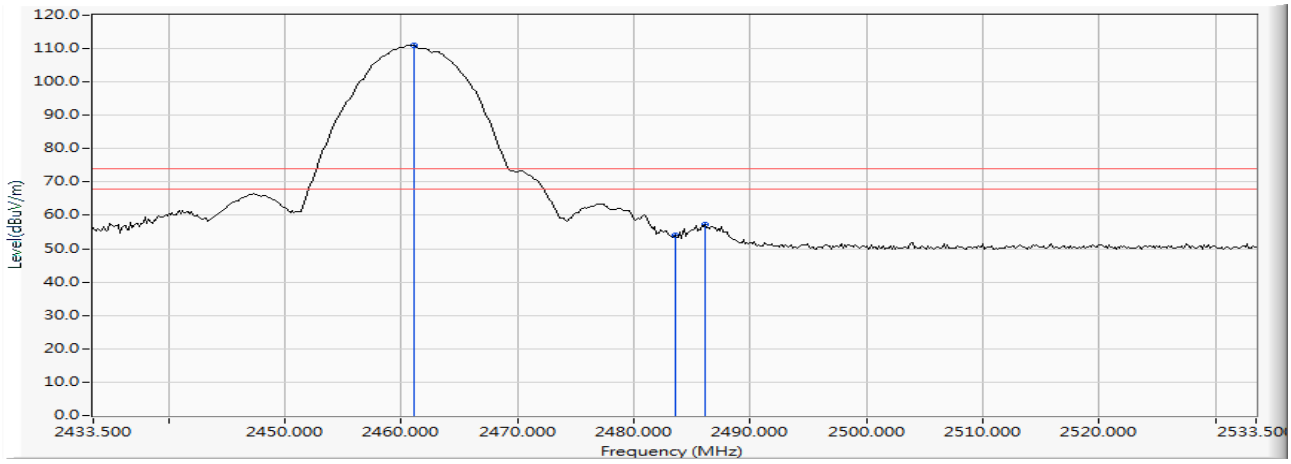
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	28.645	37.408	-16.592	54.000	AVERAGE
2		2397.681	8.791	50.486	59.277	5.277	54.000	AVERAGE
3		2400.000	8.799	44.474	53.273	-0.727	54.000	AVERAGE
4	*	2412.754	8.844	95.719	104.563	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

Horizontal



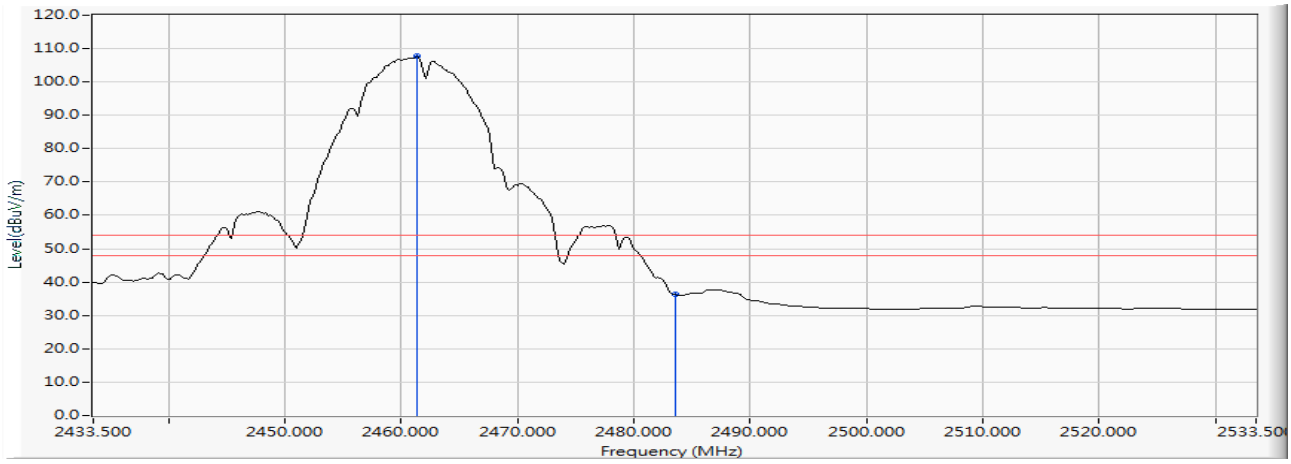
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.036	9.018	101.956	110.974	--	--	PEAK
2		2483.500	9.100	44.838	53.937	-20.063	74.000	PEAK
3		2486.109	9.109	48.054	57.163	-16.837	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

Horizontal



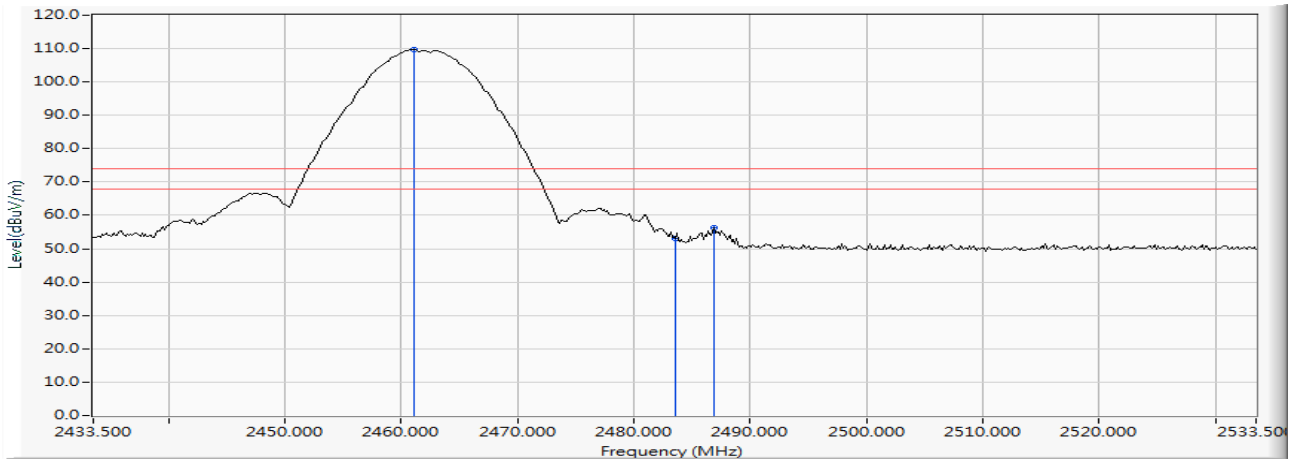
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.326	9.019	98.661	107.680	--	--	AVERAGE
2		2483.500	9.100	27.159	36.258	-17.742	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

VERTICAL



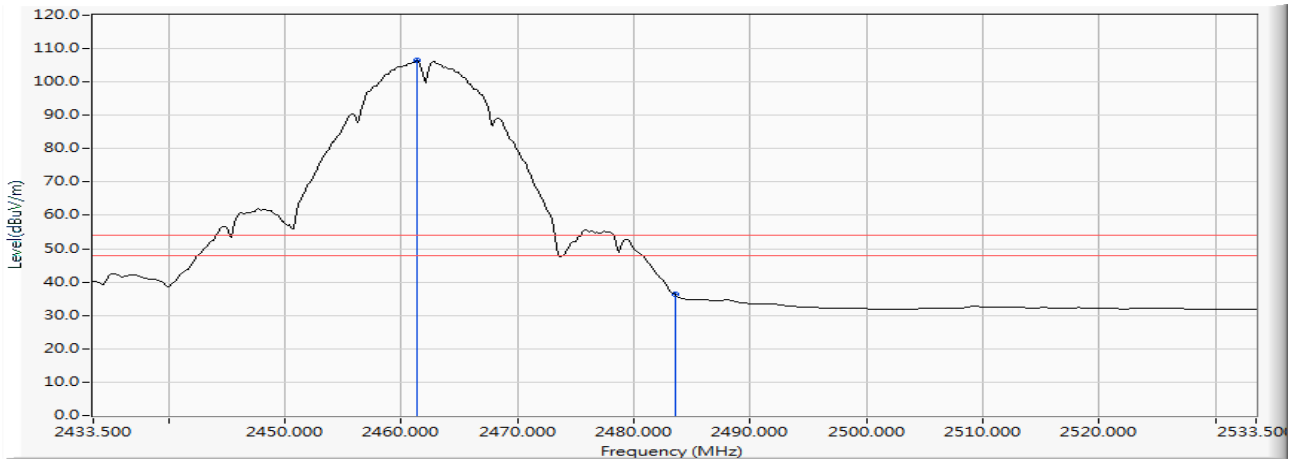
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.036	9.018	100.744	109.762	--	--	PEAK
2		2483.500	9.100	44.078	53.177	-20.823	74.000	PEAK
3		2486.833	9.111	47.083	56.195	-17.805	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 1:802.11b+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

VERTICAL



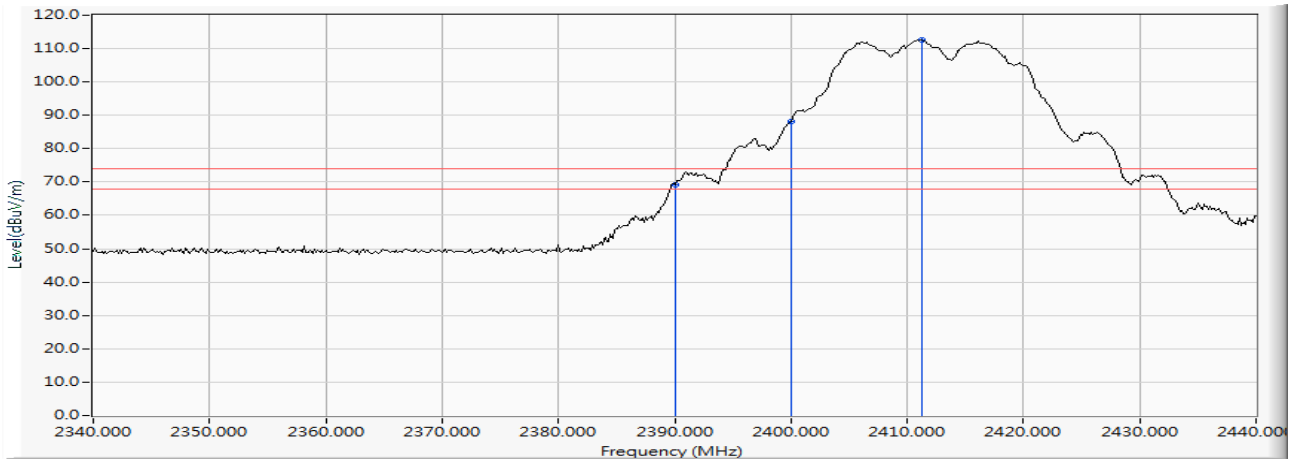
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.326	9.019	97.362	106.381	--	--	AVERAGE
2		2483.500	9.100	27.108	36.207	-17.793	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

Horizontal



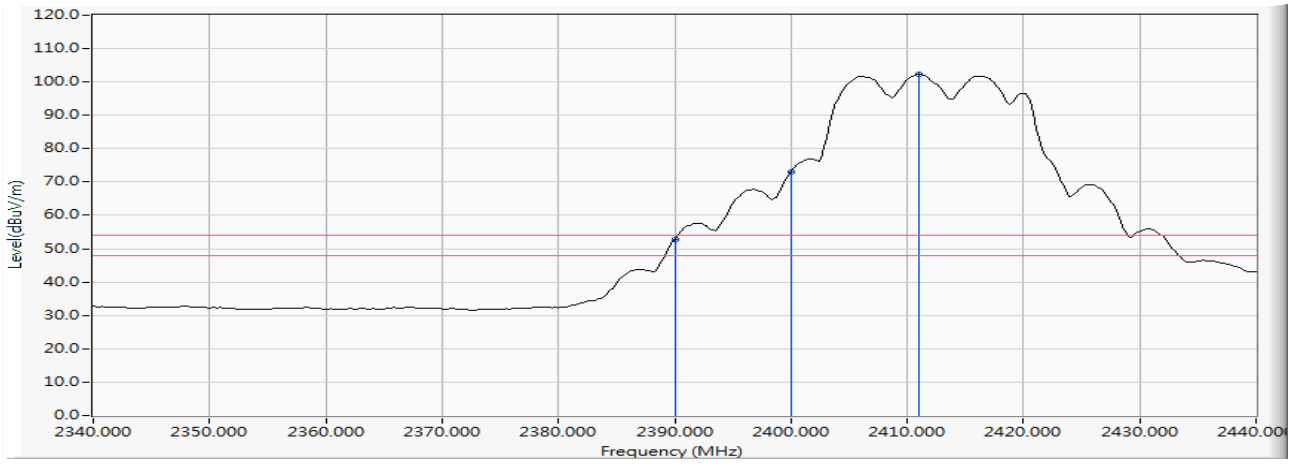
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	60.566	69.329	-4.671	74.000	PEAK
2		2400.000	8.799	79.451	88.250	14.250	74.000	PEAK
3	*	2411.304	8.839	103.811	112.650	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

Horizontal



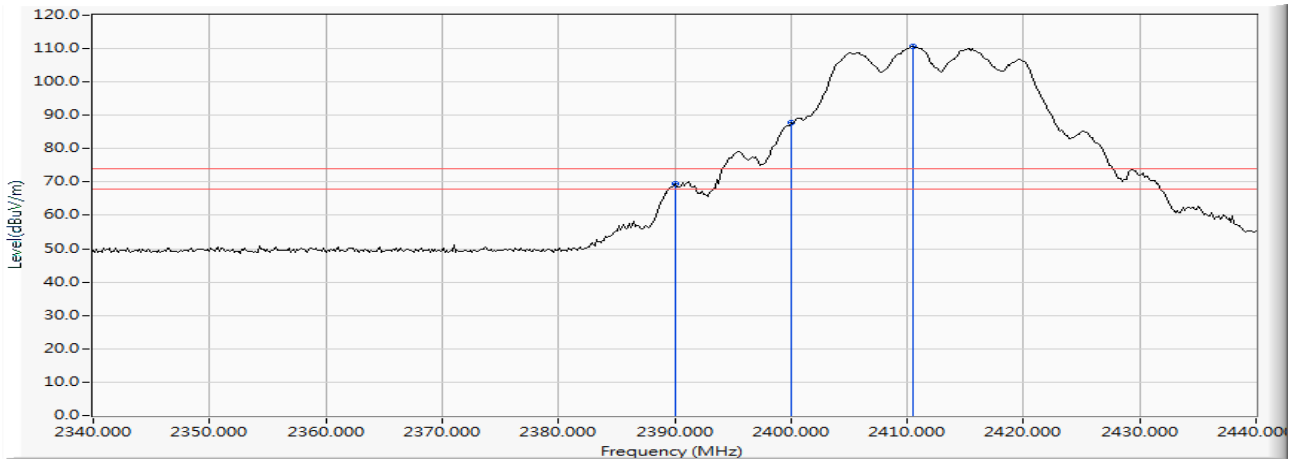
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	44.123	52.886	-1.114	54.000	AVERAGE
2		2400.000	8.799	64.342	73.141	19.141	54.000	AVERAGE
3	*	2411.014	8.838	93.545	102.383	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

VERTICAL



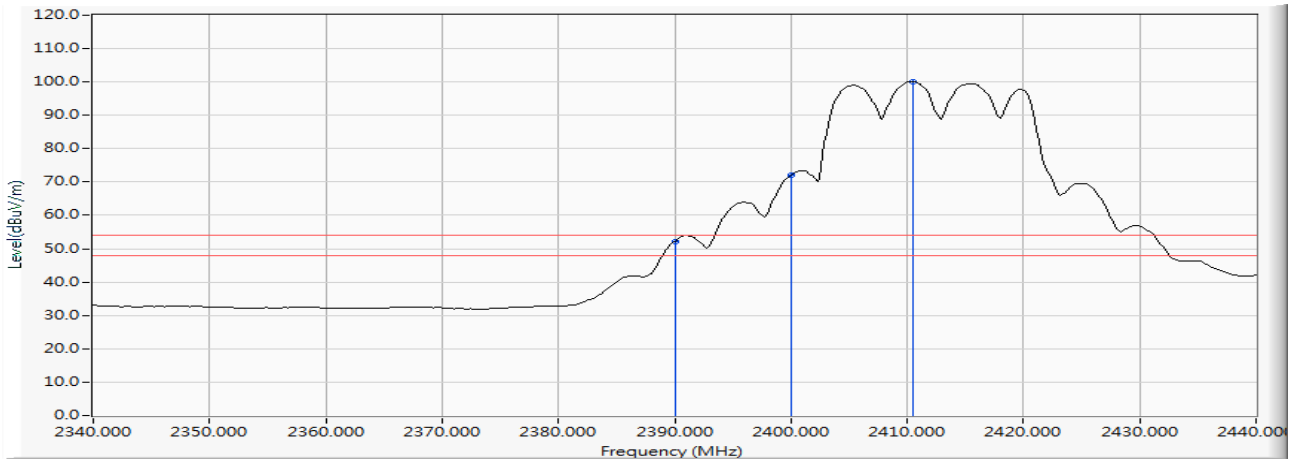
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	60.660	69.423	-4.577	74.000	PEAK
2		2400.000	8.799	79.134	87.933	13.933	74.000	PEAK
3	*	2410.435	8.836	101.759	110.595	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2412MHz)

VERTICAL



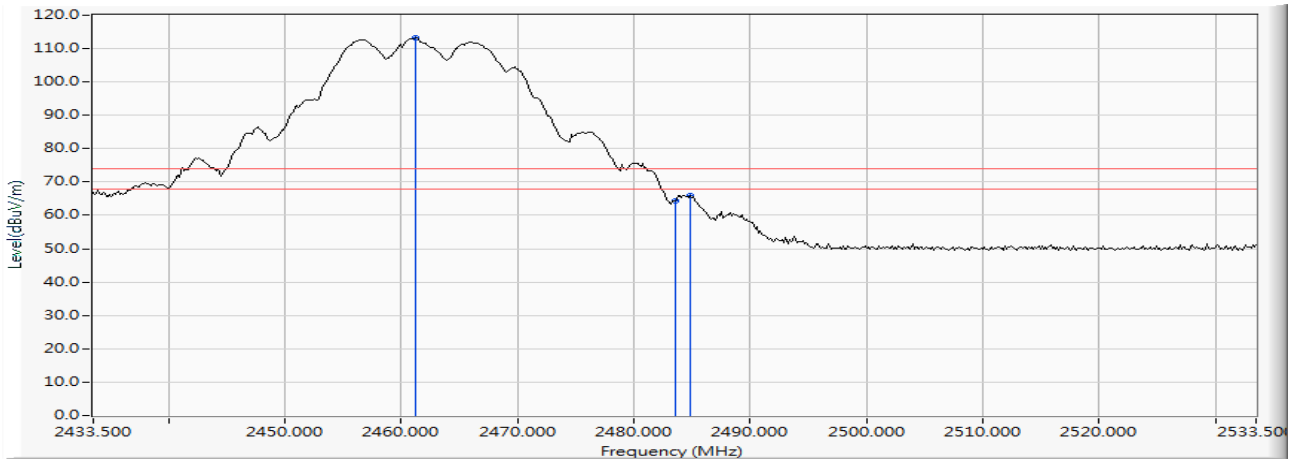
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	43.393	52.156	-1.844	54.000	PEAK
2		2400.000	8.799	63.373	72.172	18.172	54.000	PEAK
3	*	2410.435	8.836	91.309	100.145	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

Horizontal



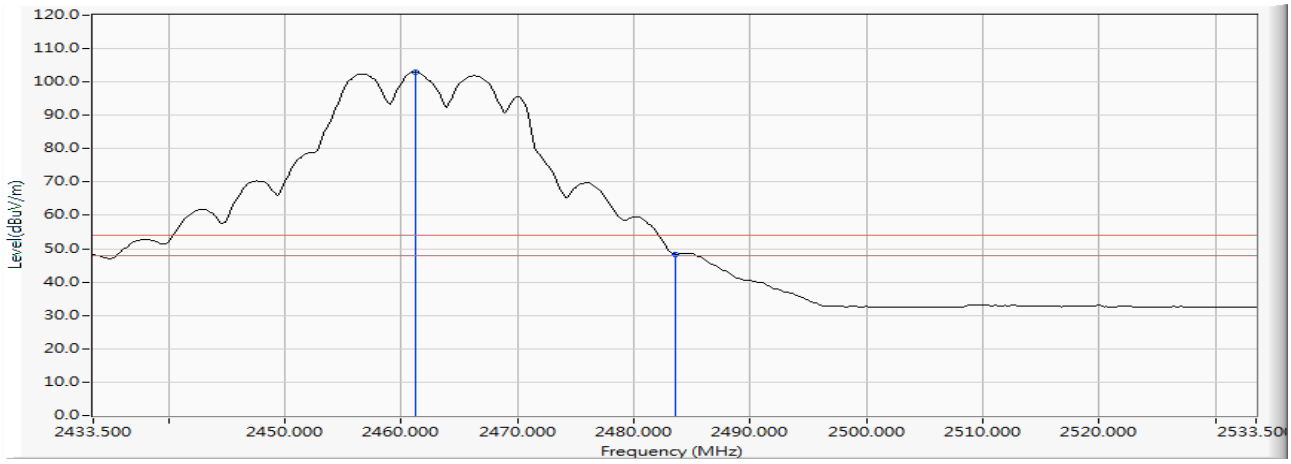
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.181	9.019	104.302	113.321	--	--	PEAK
2		2483.500	9.100	55.160	64.259	-9.741	74.000	PEAK
3		2484.804	9.103	56.691	65.795	-8.205	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

Horizontal



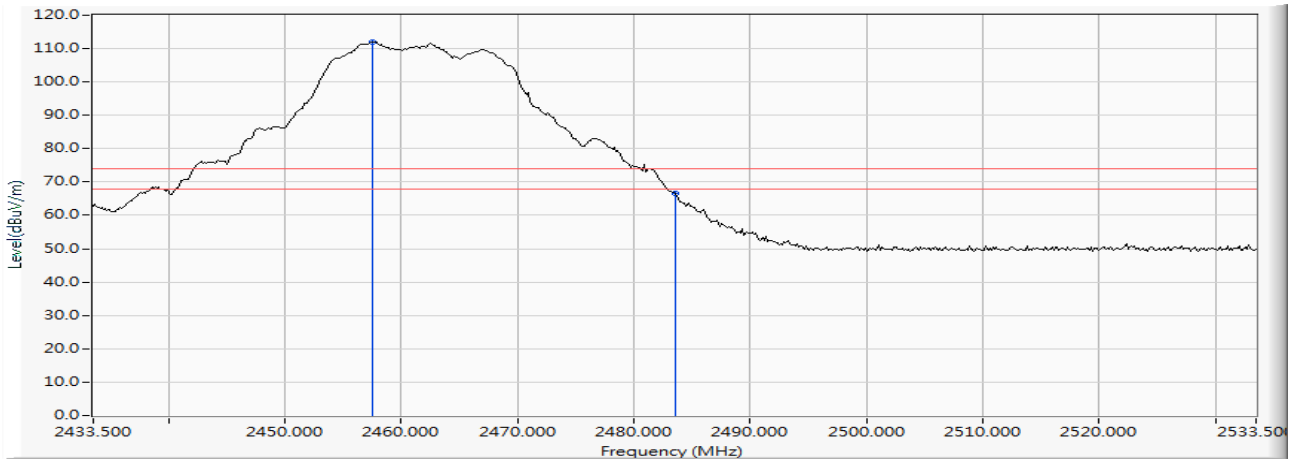
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.181	9.019	94.053	103.072	--	--	AVERAGE
2		2483.500	9.100	39.317	48.416	-5.584	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

VERTICAL



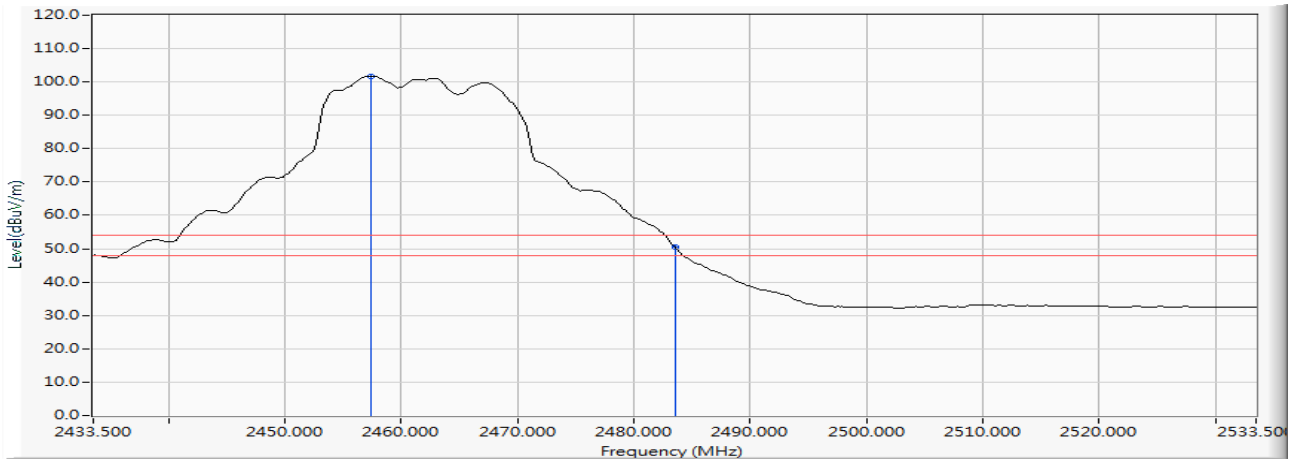
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.558	9.006	102.930	111.936	--	--	PEAK
2		2483.500	9.100	57.370	66.469	-7.531	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 2:802.11g+LTE FDD Band 7_20M 2535MHz+NFC (2462MHz)

VERTICAL



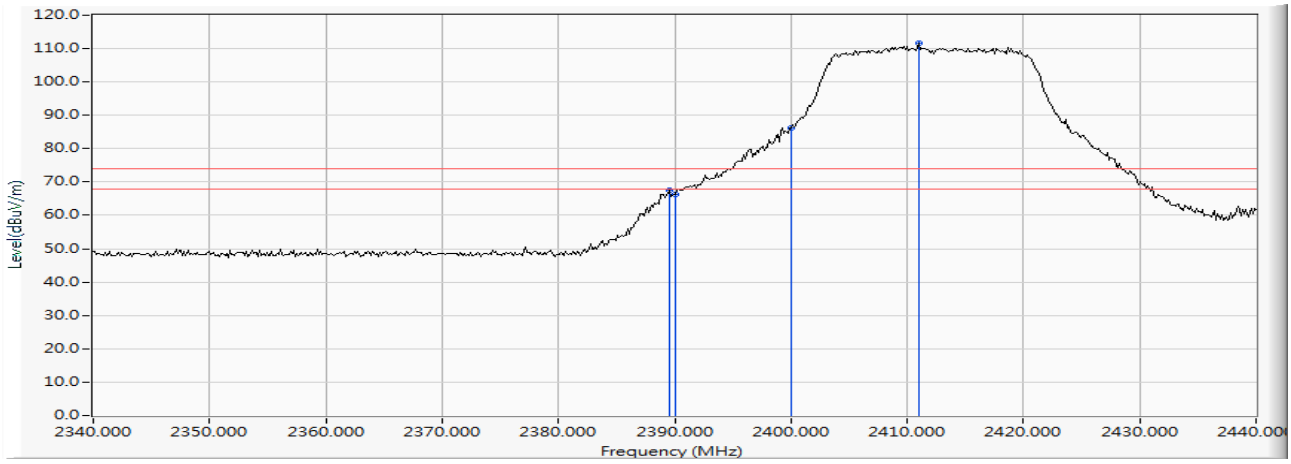
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.413	9.005	92.635	101.640	--	--	AVERAGE
2		2483.500	9.100	41.450	50.549	-3.451	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2412MHz)

Horizontal



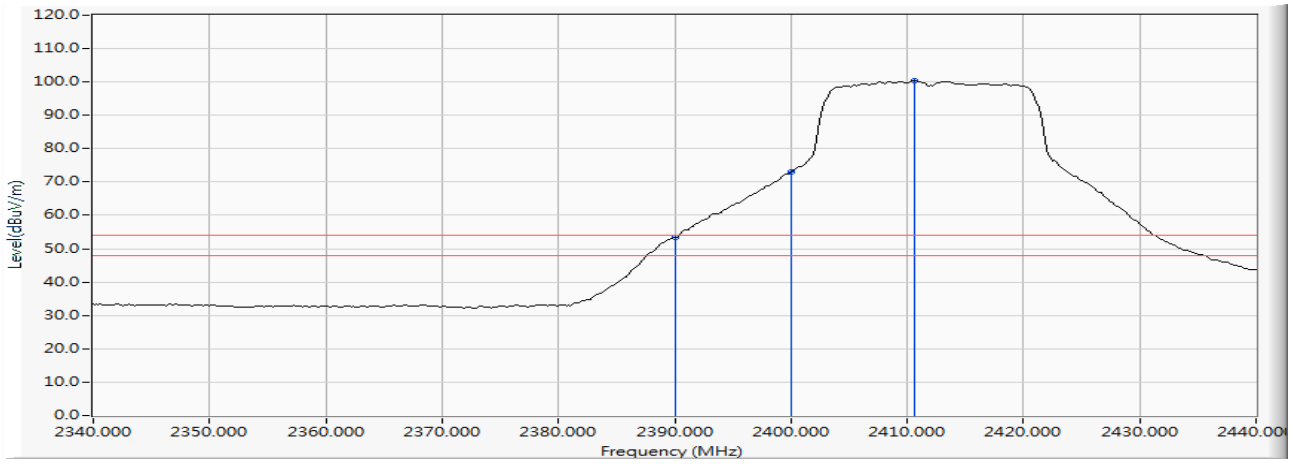
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.565	8.762	58.764	67.526	-6.474	74.000	PEAK
2		2390.000	8.763	57.380	66.143	-7.857	74.000	PEAK
3		2400.000	8.799	77.425	86.224	12.224	74.000	PEAK
4	*	2411.014	8.838	102.689	111.527	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2412MHz)

Horizontal



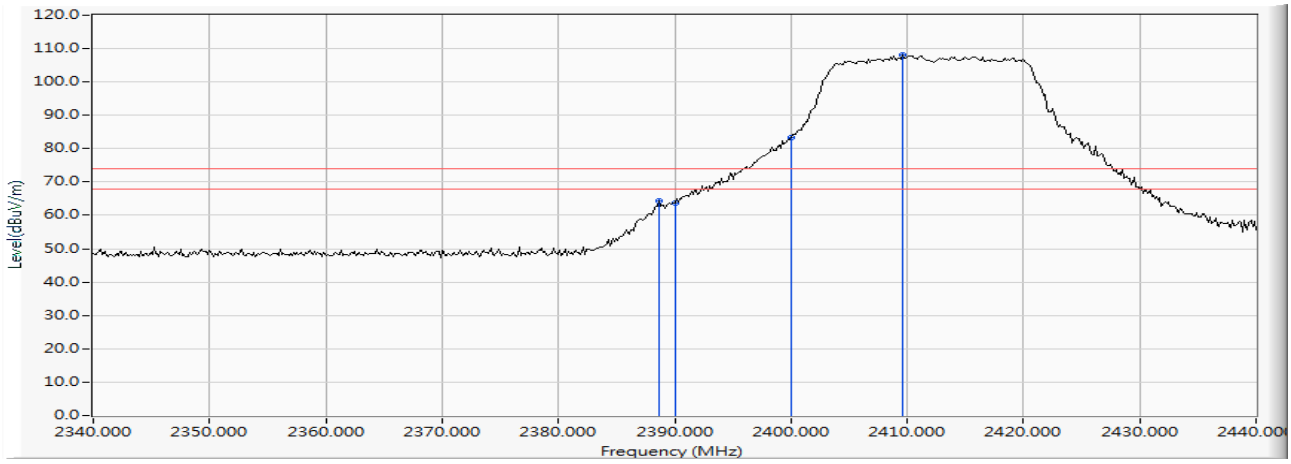
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	44.498	53.261	-0.739	54.000	AVERAGE
2		2400.000	8.799	64.089	72.888	18.888	54.000	AVERAGE
3	*	2410.580	8.837	91.636	100.473	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2412MHz)

VERTICAL



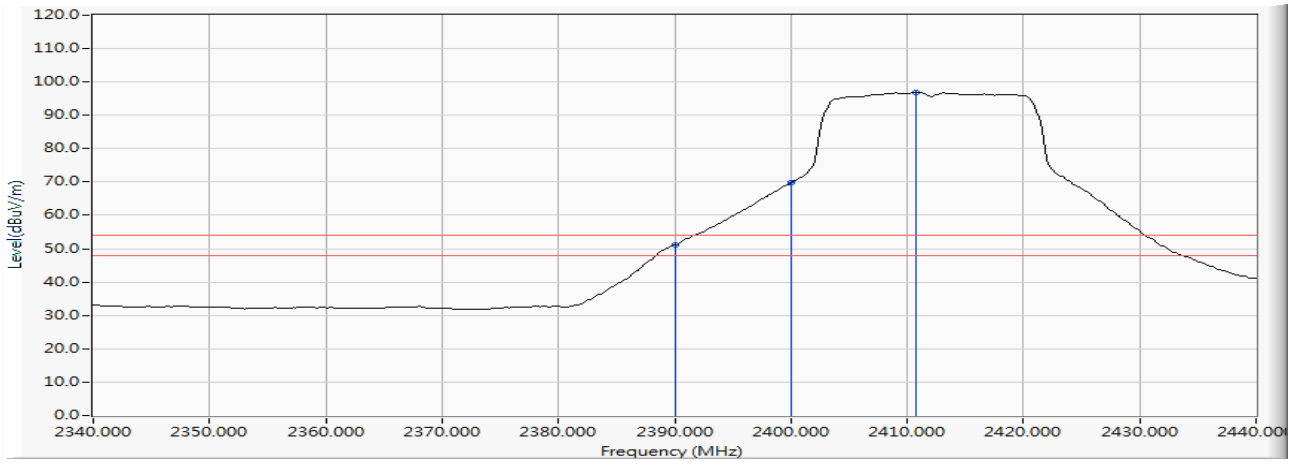
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2388.696	8.759	55.571	64.330	-9.670	74.000	AVERAGE
2		2390.000	8.763	55.078	63.841	-10.159	74.000	AVERAGE
3		2400.000	8.799	74.681	83.480	9.480	74.000	AVERAGE
4	*	2409.565	8.834	99.237	108.070	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2412MHz)

VERTICAL



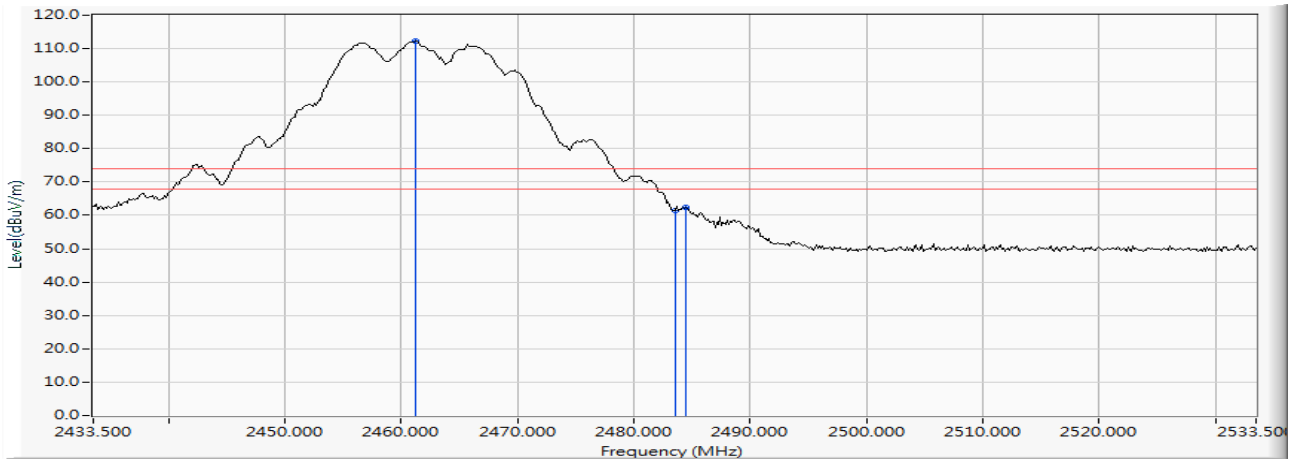
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	42.268	51.031	-2.969	54.000	AVERAGE
2		2400.000	8.799	60.922	69.721	15.721	54.000	AVERAGE
3	*	2410.725	8.838	88.067	96.904	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2462MHz)

Horizontal



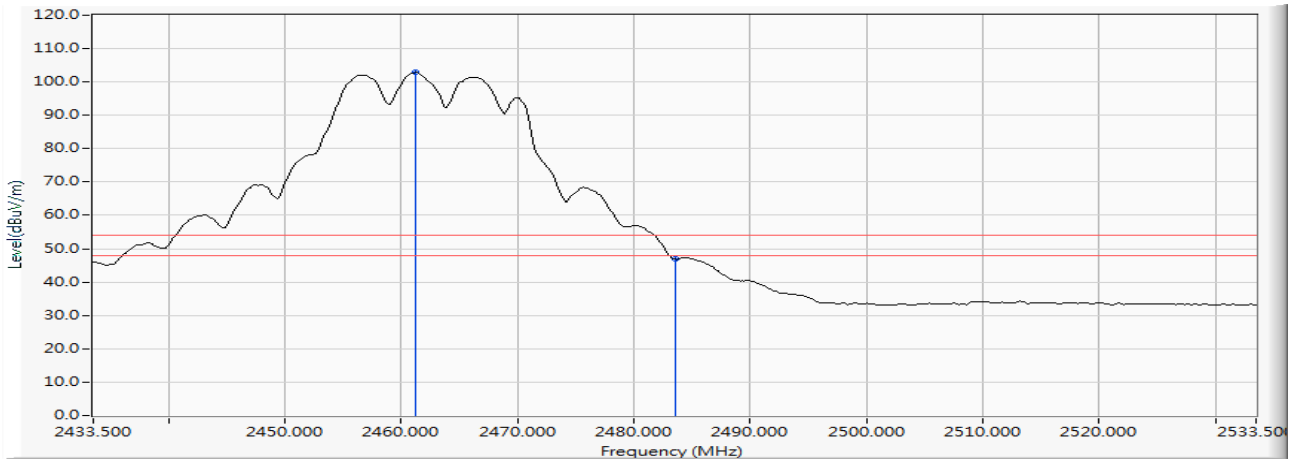
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.181	9.019	103.284	112.303	--	--	PEAK
2		2483.500	9.100	52.270	61.369	-12.631	74.000	PEAK
3		2484.514	9.103	53.401	62.504	-11.496	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2462MHz)

Horizontal



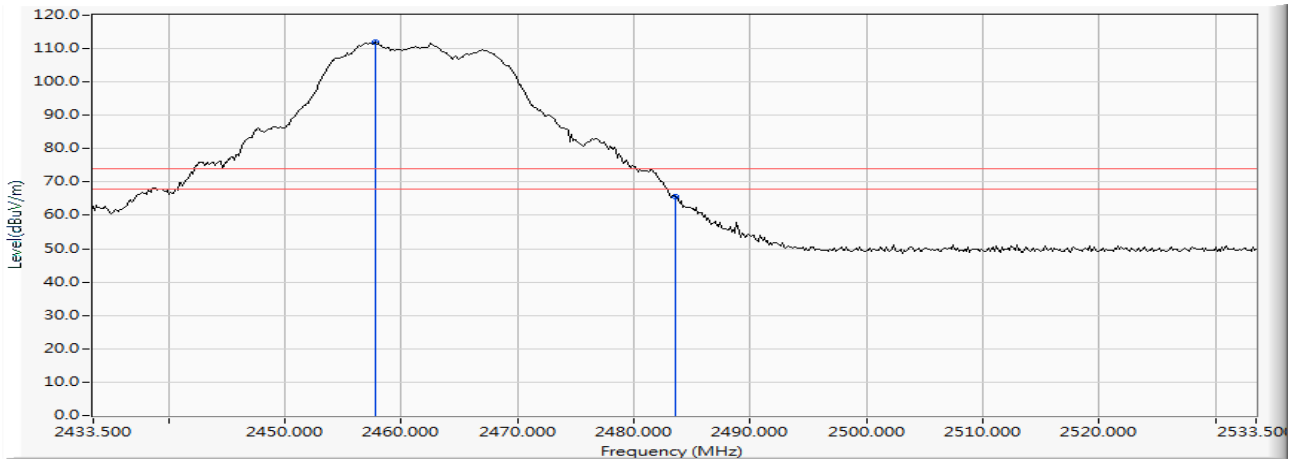
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.181	9.019	93.795	102.814	--	--	AVERAGE
2		2483.500	9.100	37.876	46.975	-7.025	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2462MHz)

VERTICAL



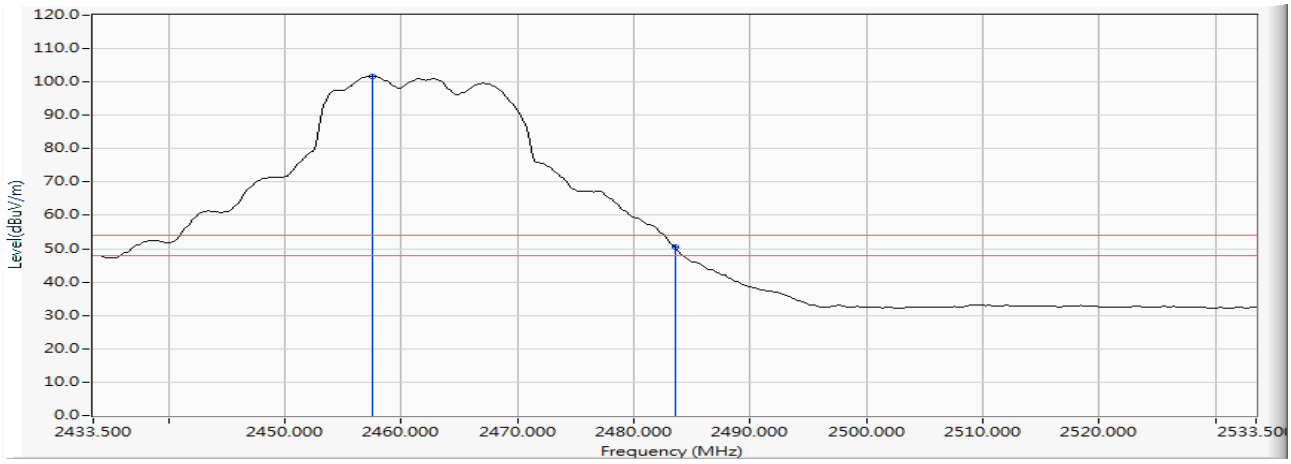
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.703	9.007	103.014	112.020	--	--	PEAK
2		2483.500	9.100	56.587	65.686	-8.314	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 3:802.11n-20+LTE TDD Band 38_20M 2595MHz+NFC (2462MHz)

VERTICAL



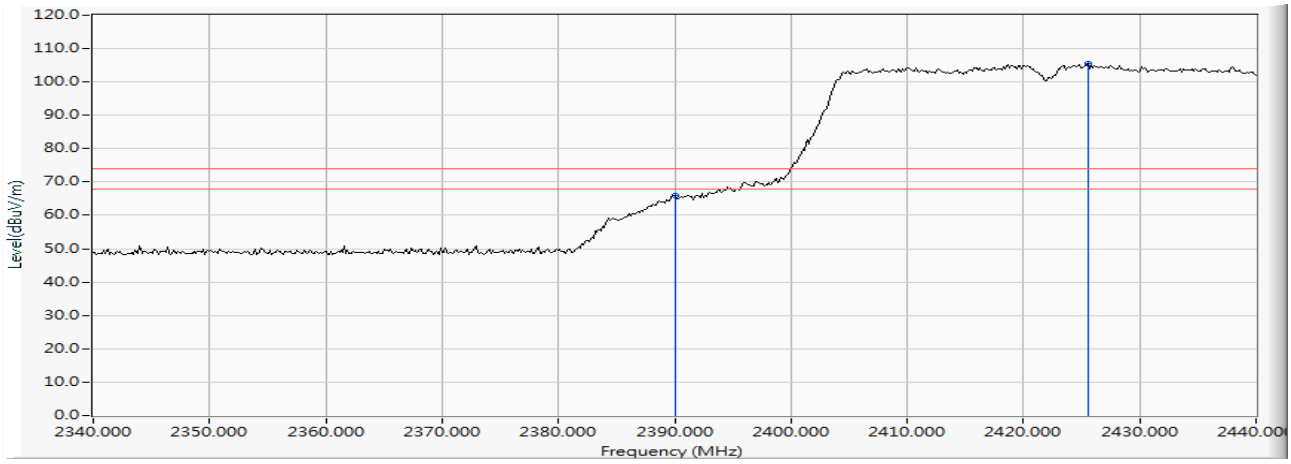
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.558	9.006	92.702	101.708	--	--	AVERAGE
2		2483.500	9.100	41.397	50.496	-3.504	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2422MHz)

Horizontal



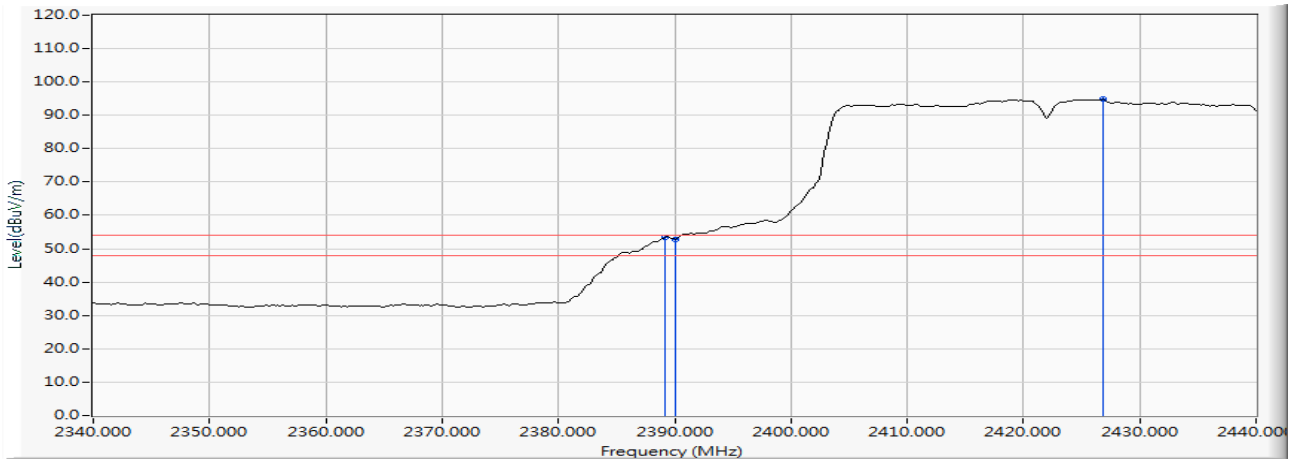
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	57.286	66.049	-7.951	74.000	PEAK
2	*	2425.507	8.891	96.594	105.485	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2422MHz)

Horizontal



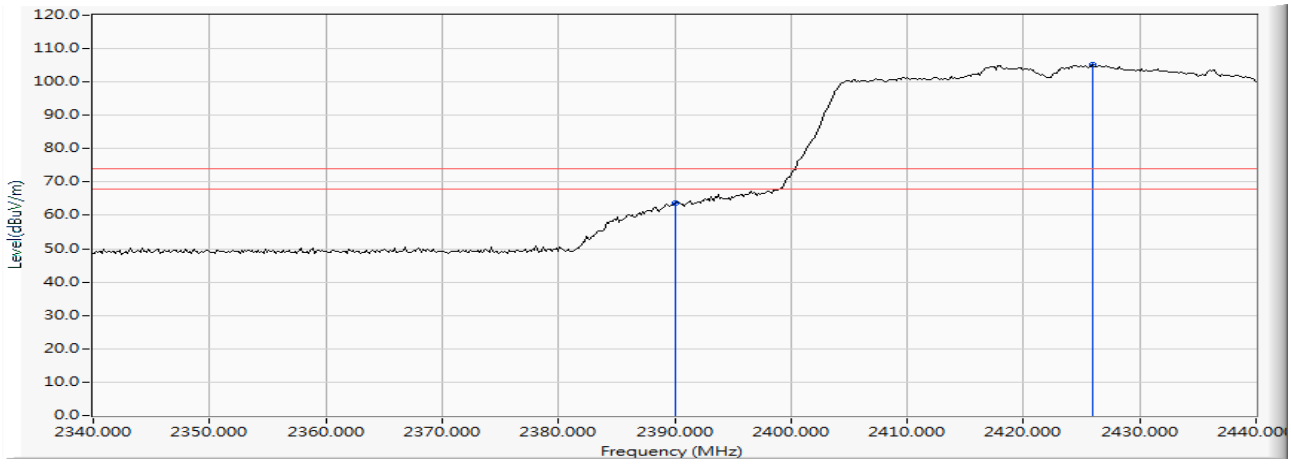
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.130	8.761	44.699	53.459	-0.541	54.000	AVERAGE
2		2390.000	8.763	44.025	52.788	-1.212	54.000	AVERAGE
3	*	2426.812	8.895	85.894	94.790	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2422MHz)

VERTICAL



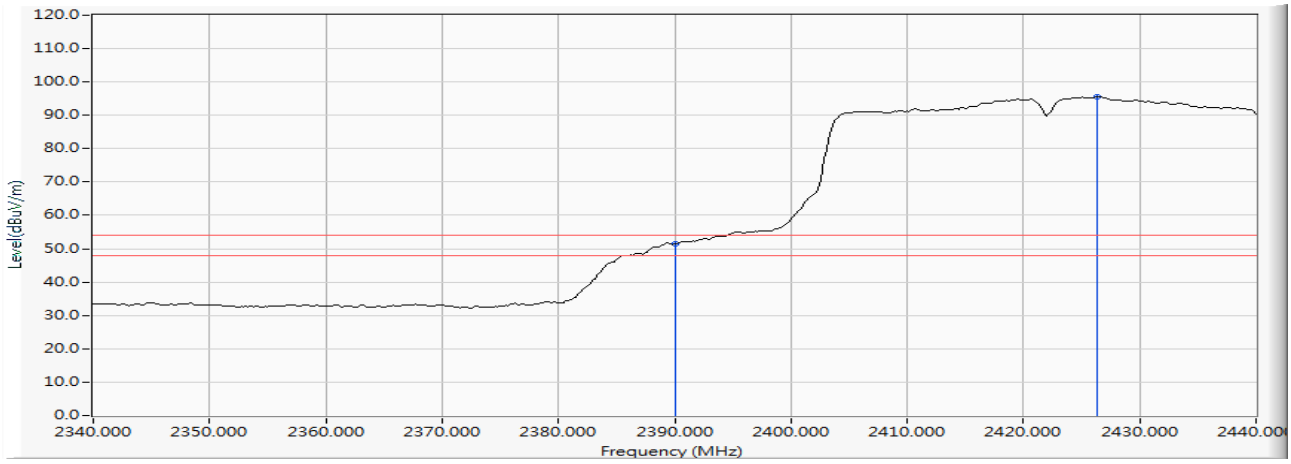
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	55.068	63.831	-10.169	74.000	PEAK
2	*	2425.942	8.892	96.209	105.101	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2422MHz)

VERTICAL



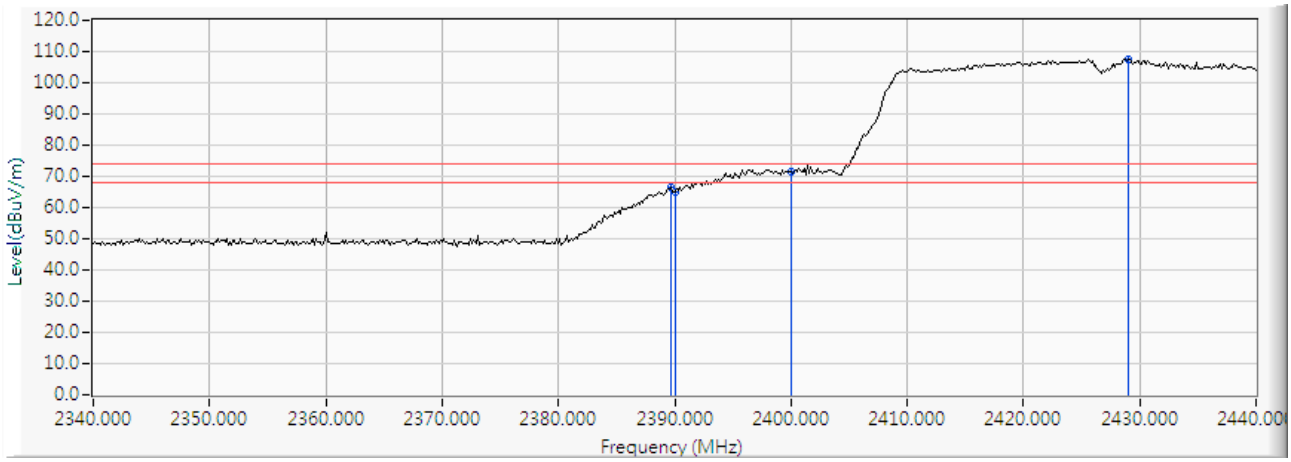
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	42.580	51.343	-2.657	54.000	AVERAGE
2	*	2426.377	8.894	86.657	95.551	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2427MHz)

Horizontal



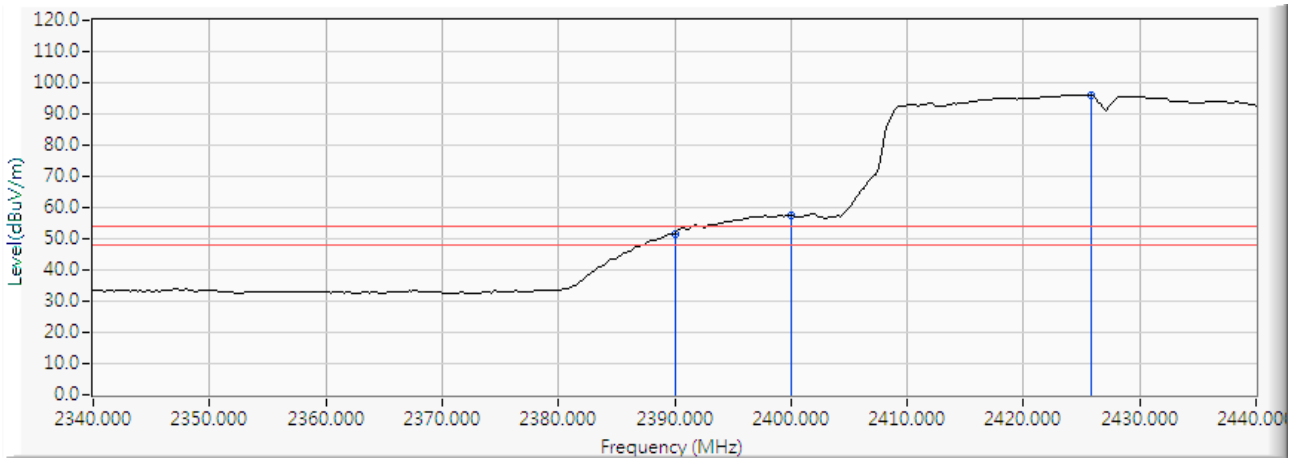
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.710	8.763	57.504	66.266	-7.734	74.000	PEAK
2		2390.000	8.763	56.327	65.090	-8.910	74.000	PEAK
3		2400.000	8.799	62.930	71.729	-2.271	74.000	PEAK
4	*	2428.986	8.903	98.770	107.673	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2427MHz)

Horizontal



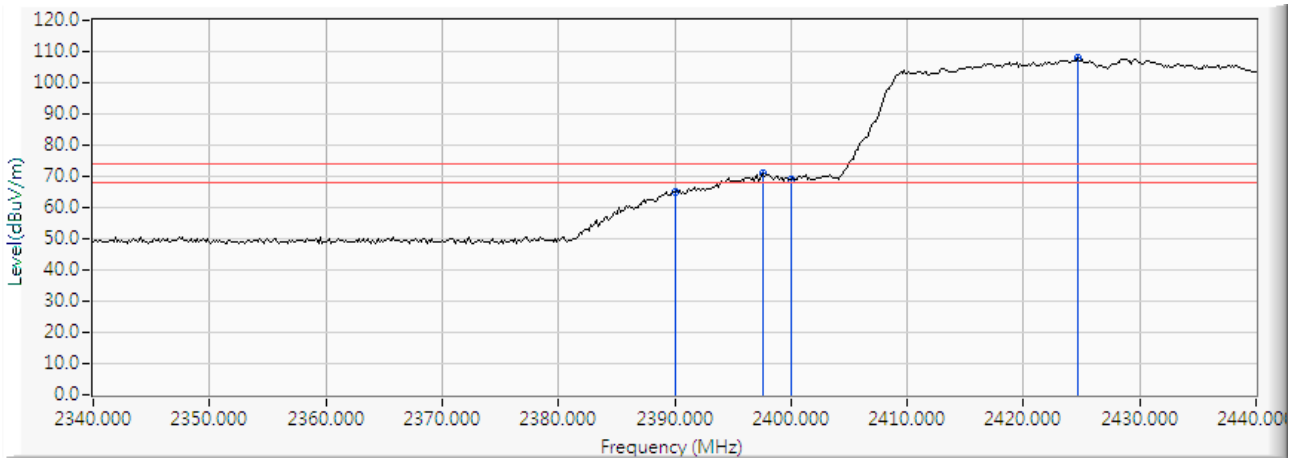
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	42.856	51.619	-2.381	54.000	PEAK
2		2400.000	8.799	48.600	57.399	3.399	54.000	PEAK
3	*	2425.797	8.891	87.168	96.060	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2427MHz)

VERTICAL



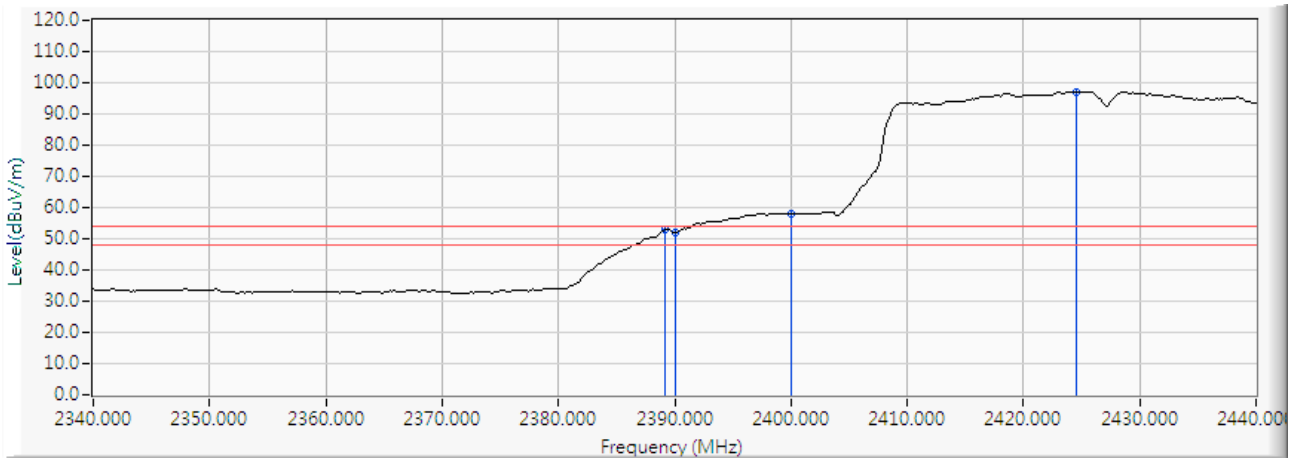
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	8.763	56.018	64.781	-9.219	74.000	PEAK
2		2397.536	8.790	62.334	71.124	-2.876	74.000	PEAK
3		2400.000	8.799	60.368	69.167	-4.833	74.000	PEAK
4	*	2424.638	8.888	99.014	107.902	--	--	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2427MHz)

VERTICAL



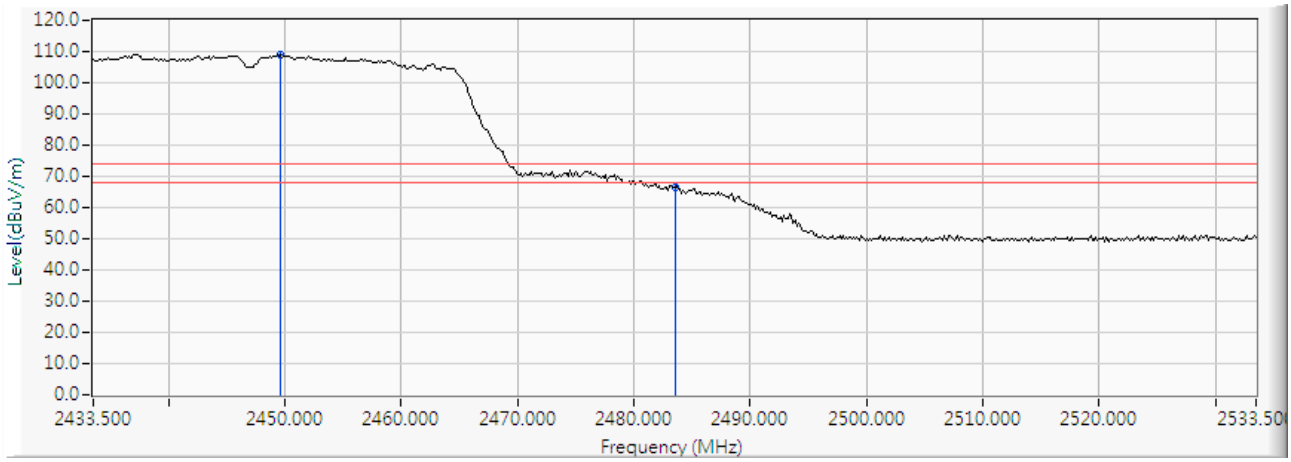
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.130	8.761	44.030	52.790	-1.210	54.000	AVERAGE
2		2390.000	8.763	43.402	52.165	-1.835	54.000	AVERAGE
3		2400.000	8.799	49.069	57.868	3.868	54.000	AVERAGE
4	*	2424.493	8.887	88.306	97.193	--	--	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2447MHz)

Horizontal



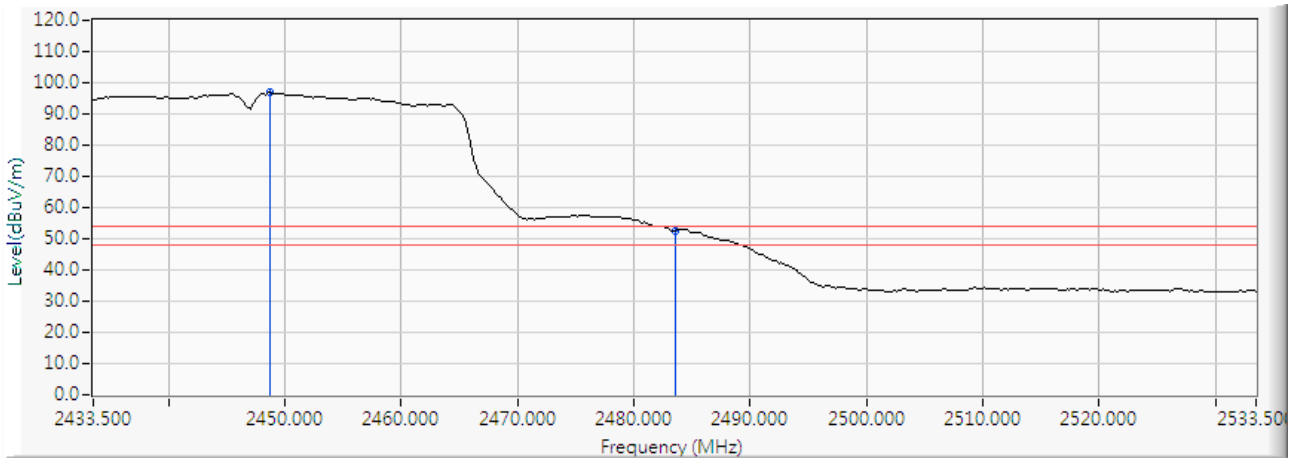
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2449.587	8.978	99.936	108.914	--	--	PEAK
2		2483.500	9.100	57.516	66.615	-7.385	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2447MHz)

Horizontal



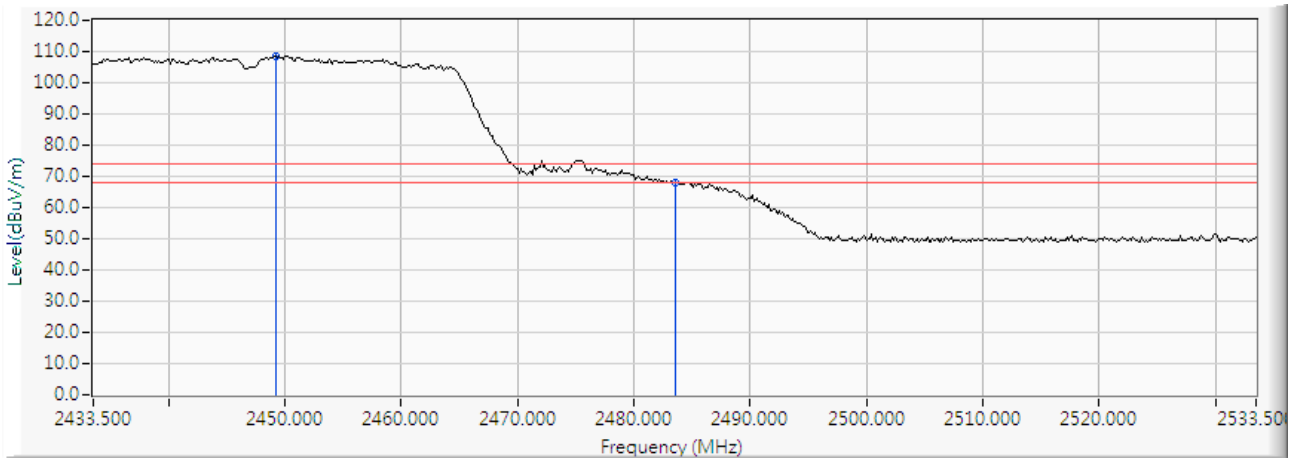
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2448.717	8.975	87.864	96.839	--	--	AVERAGE
2		2483.500	9.100	43.474	52.573	-1.427	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2447MHz)

VERTICAL



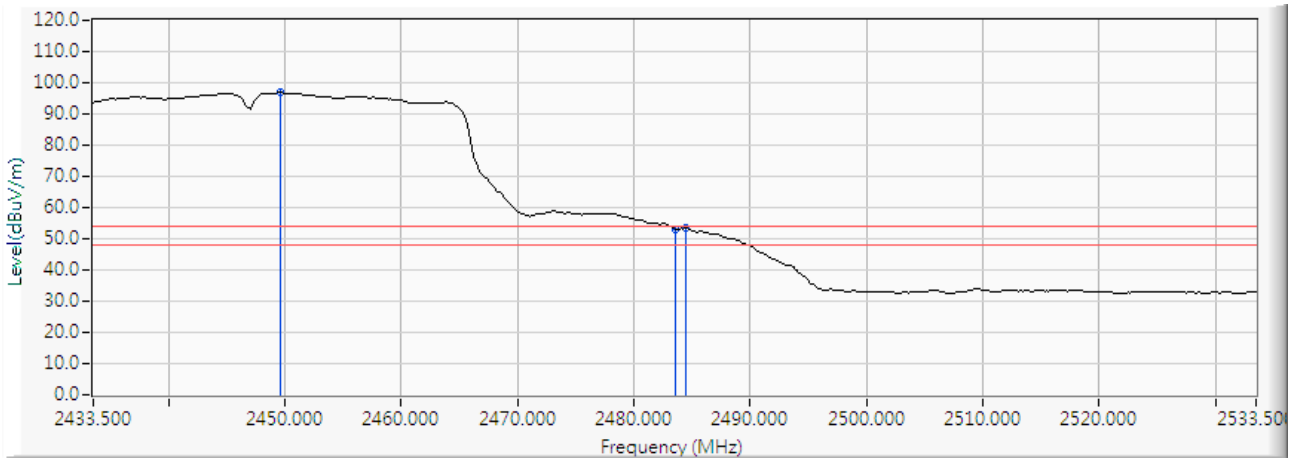
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2449.152	8.976	99.713	108.689	--	--	PEAK
2		2483.500	9.100	59.057	68.156	-5.844	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Rugged Tablet
Test Item	:	Band Edge
Test Date	:	2019/09/03
Test Mode	:	Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2447MHz)

VERTICAL



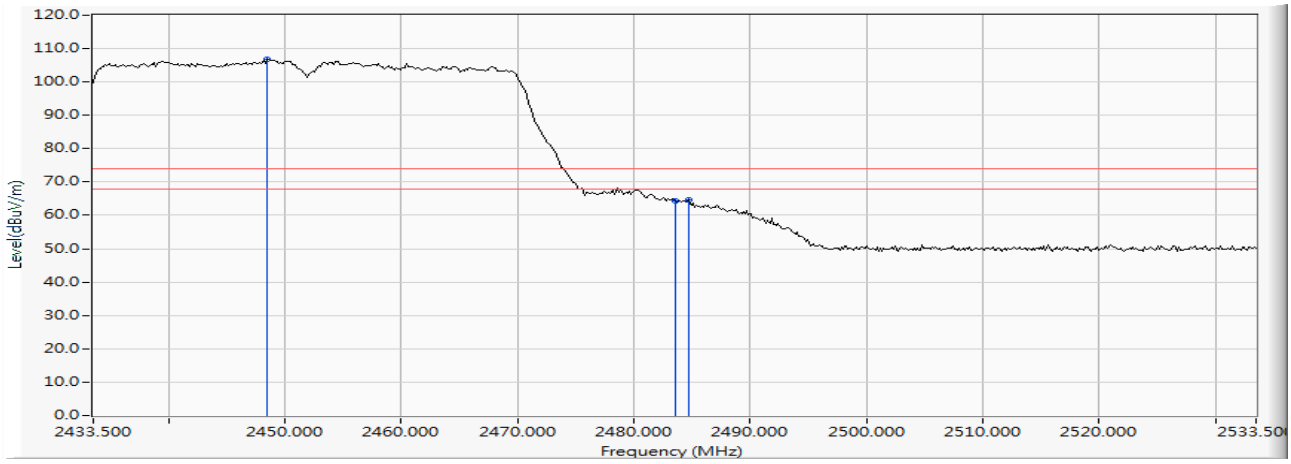
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2449.587	8.978	87.921	96.899	--	--	AVERAGE
2		2483.500	9.100	43.973	53.072	-0.928	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2452MHz)

Horizontal



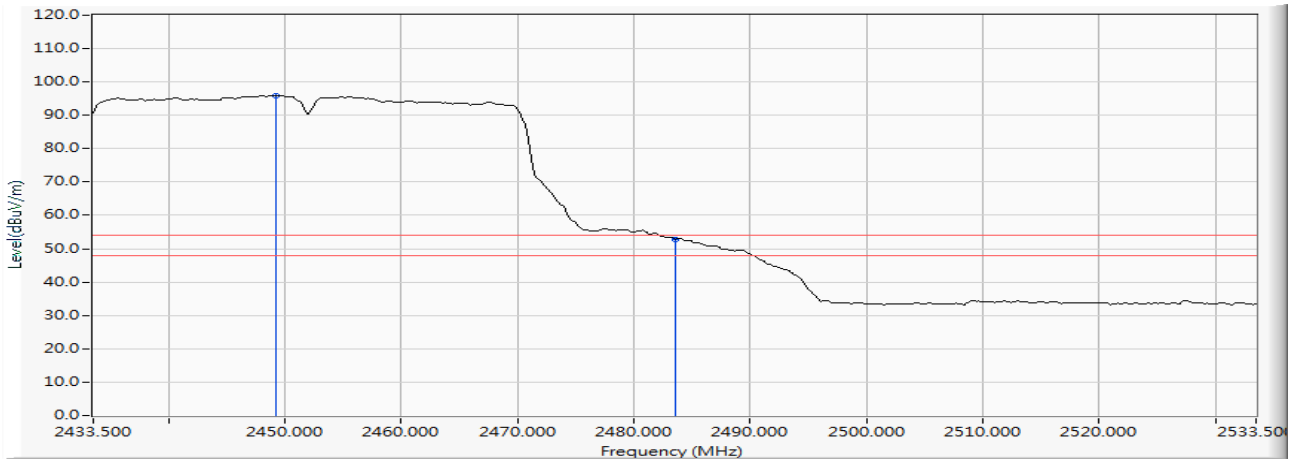
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2448.428	8.974	97.839	106.813	--	--	PEAK
2		2483.500	9.100	55.099	64.198	-9.802	74.000	PEAK
3		2484.659	9.104	55.662	64.766	-9.234	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2452MHz)

Horizontal



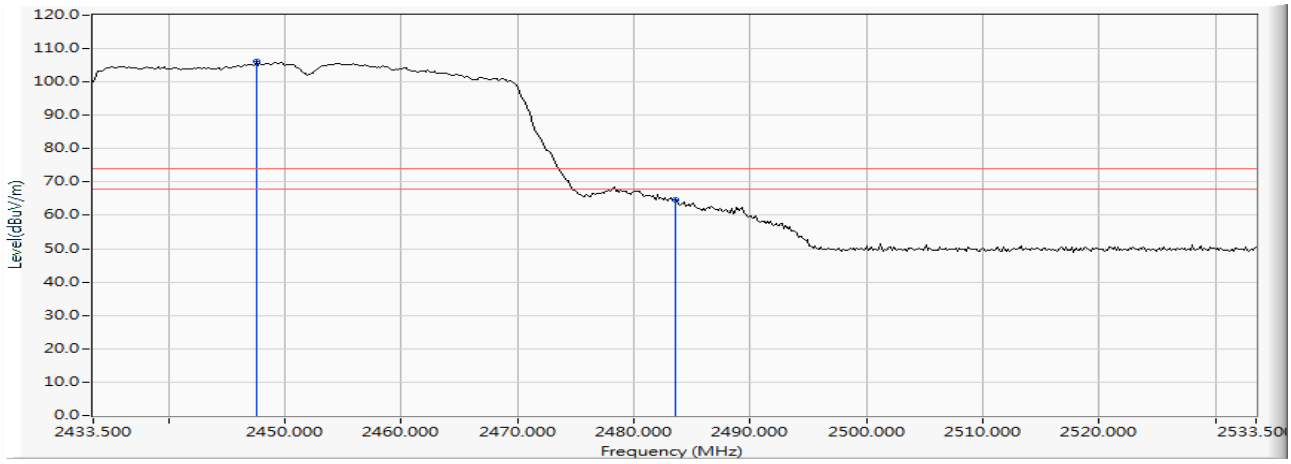
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2449.152	8.976	86.973	95.949	--	--	PEAK
2		2483.500	9.100	43.699	52.798	-1.202	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2452MHz)

VERTICAL



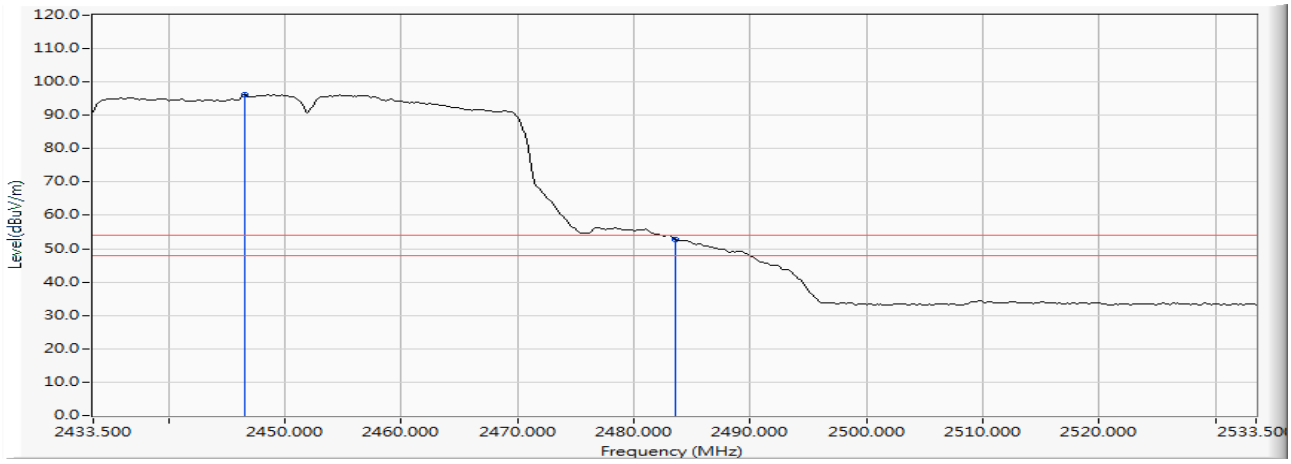
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.558	8.970	97.288	106.259	--	--	PEAK
2		2483.500	9.100	55.583	64.682	-9.318	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Rugged Tablet
Test Item : Band Edge
Test Date : 2019/09/03
Test Mode : Mode 4:802.11n-40+LTE TDD Band 41_20M 2593MHz+NFC (2452MHz)

VERTICAL



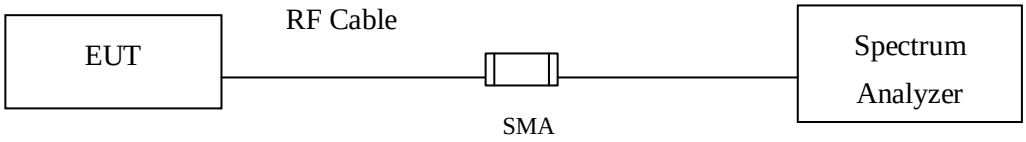
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.543	8.967	87.207	96.174	--	--	PEAK
2		2483.500	9.100	43.616	52.715	-1.285	54.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

5. Duty Cycle

5.1. Test Setup



5.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

5.3. Uncertainty

± 2.31msec

5.4. Test Result of Duty Cycle

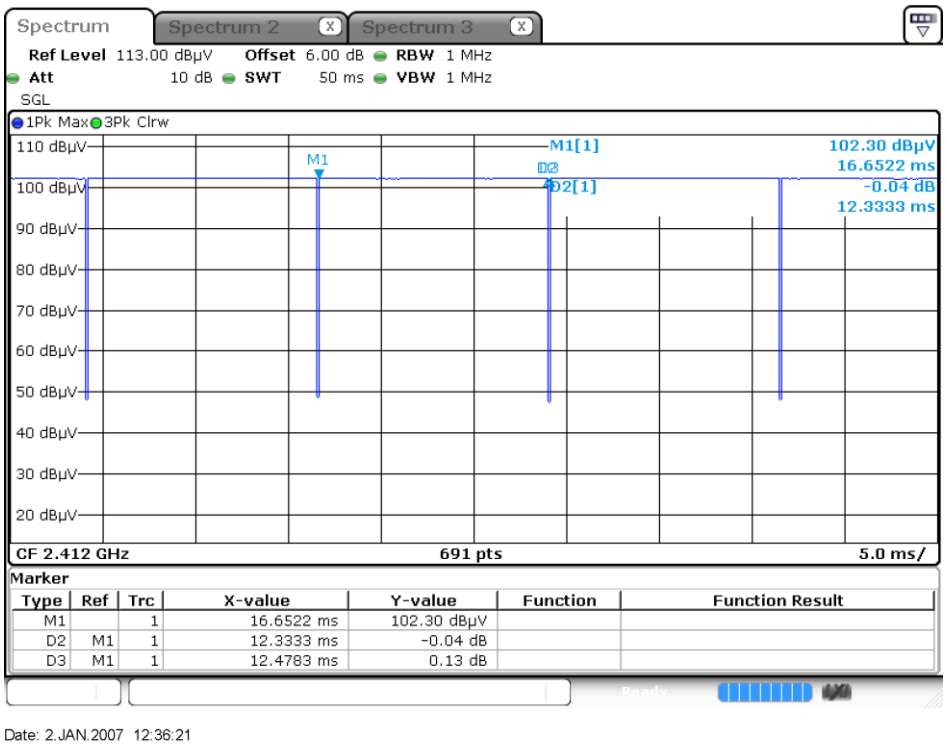
Product : Rugged Tablet
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:
Duty Cycle = Ton / (Ton + Toff)
Duty Factor = 10 Log (1/Duty Cycle)

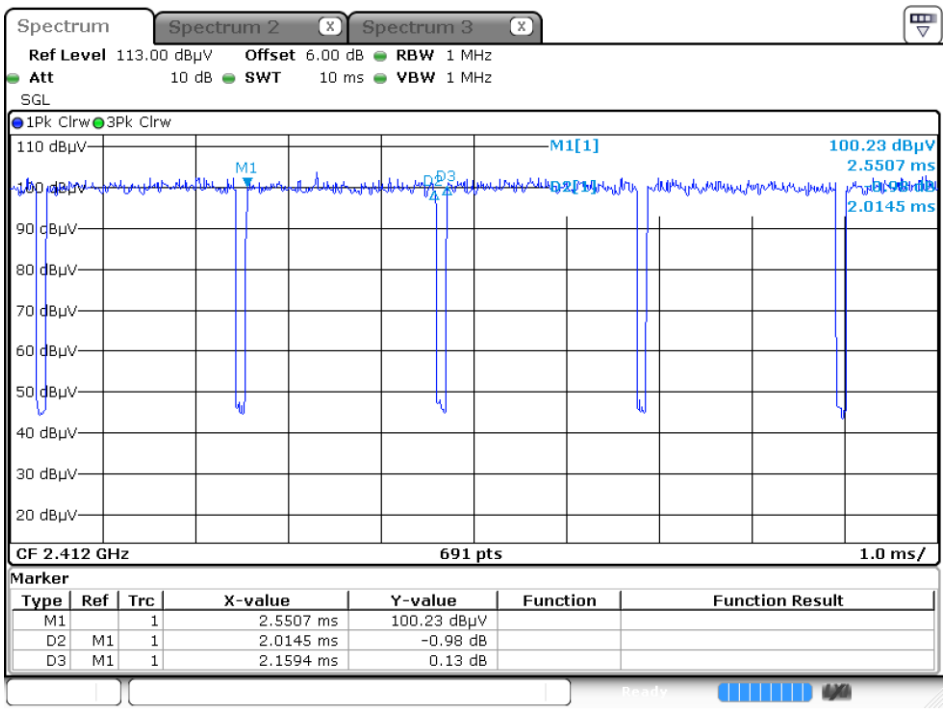
Results:

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	12.3333	12.4783	98.84	0.05
802.11g	2.0145	2.1594	93.29	0.30
802.11n20	0.9565	1.0696	89.43	0.49
802.11n40	0.4493	0.6667	67.39	1.71

802.11b

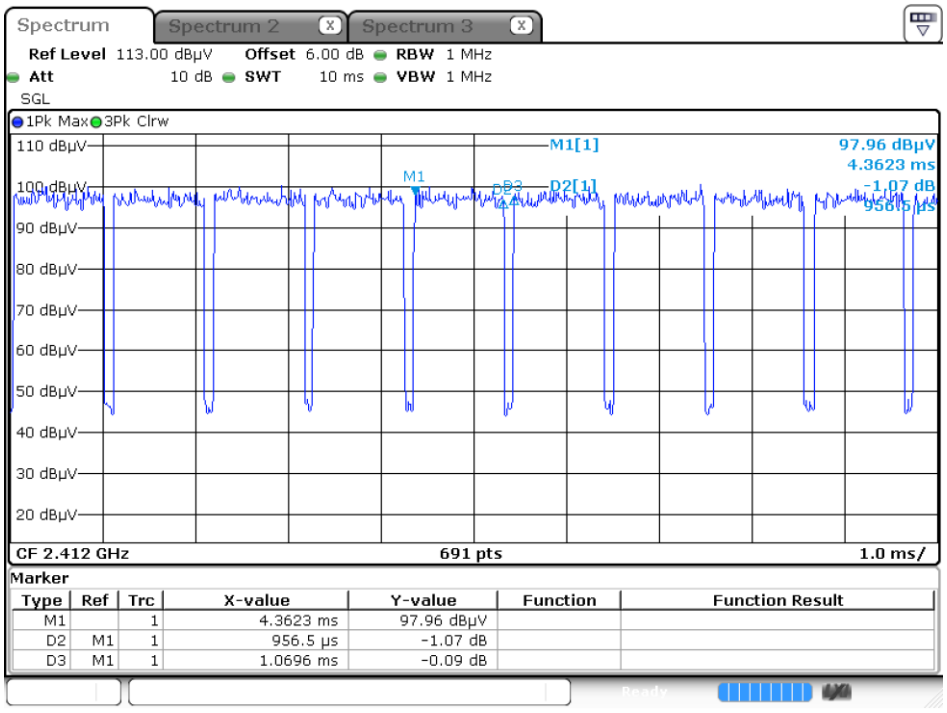


802.11g



Date: 2.JAN.2007 12:57:29

802.11n20



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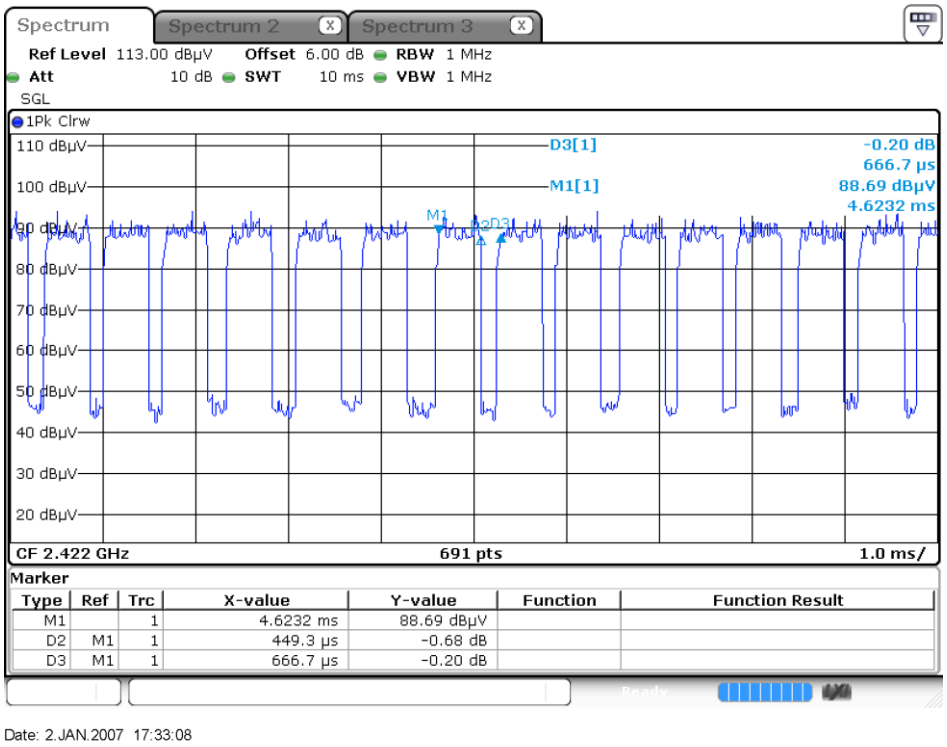
802.11n40



Date: 2.JAN.2007 17:33:08

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.