



Informe de ensayo nº:  
Test report No:

NIE: 45636REM.001A1

## Test Report (Modification 1)

FCC Rules and Regulations 47 CFR Chapter I Part 15 Subpart B (10-01-13 Edition);  
ICES-003 ISSUE 5 (2012)

&

ANSI C63.4-(2009): American National standard for methods of measurements of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9kHz to 40GHz.

Identification of item tested .....	Yotaphone2 Dual screen SmartPhone with EPD back screen
Trade .....	YotaPhone
Model and /or type reference .....	YD205
Other identification of the product .....	FCC ID: 2ADHW205 IC: 12469A-205
Final HW version .....	P2
Final SW version .....	4.4.3-S01-003-US1.0.3.63a
Features .....	CPU: Qualcomm Snapdragon 801, quad-core 2.26 GHz Network: GSM 850, 900, 1800, 1900 MHz, UMTS/HSPA+/DC-HSDPA 850,900,1900,1700/2100,2100 MHz; LTE CAT4 B2 MIMO,B3 MIMO, B4 MIMO, B5 MIMO, B7 MIMO, B12 MIMO and B20 MIMO Connectivity: WiFi 802.11 a/b/g/n/ac, USB 2.0, BT v4.0 LE, GPS w/A-GPS + Glonass, NFC
Manufacturer .....	YOTA DEVICES LTD Arch. Makariou & Kalograion, 4, Nicolaides Sea View City, 9th Floor, Flat/Offices 903 -904, Block A-B, 6016, Larnaca, Cyprus
Test method requested, standard.....	FCC Rules and Regulations 47 CFR Chapter I Part 15 Subpart B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009
Summary .....	IN COMPLIANCE
Approved by (name / position & signature) .....	Rafael López Martín LAB EMC Manager
Date of issue .....	2015-05-29
Report template No. ....	FDT11_16



Firmado digitalmente por Rafael  
López Martín  
Fecha: 2015.05.29 15:31:23 +02'00'

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## Competences and guarantees

AT4 wireless is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance program for its measurement equipment.

AT4 wireless guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at AT4 wireless at the time of performance of the test.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

## Uncertainty

Uncertainty (factor  $k=2$ ) was calculated according to the AT4 wireless internal document PODT000.

## Usage of samples

Samples under test have been selected by: the Client.

Sample S/01 is composed of the following elements:

Control N°	Description	Model	Serial number	Reception date
45636B/003	USB cable	--	--	22/04/2015
45636B/004	AC/DC adapter	YDC101au-b	--	22/04/2015
45636B/008	YOTA PHONE #2 (TITANIUM)	TITANIUM	--	22/04/2015

Sample S/02 is composed of the following elements

Control N°	Description	Model	Serial number	Reception date
45636B/003	USB cable	--	--	22/04/2015
45636B/008	YOTA PHONE #2 (TITANIUM)	TITANIUM	--	22/04/2015

## Test sample description

The sample consist of an YOTAPHONE2, dual screen Smartphone with EPD back screen.

## Identification of the client

YOTA DEVICES LTD  
Arch. Makariou & Kalograion, 4, Nicolaides Sea View City, 9th Floor, Flat/Offices 903-904, Block A-B, 6016  
Larnaca. Cyprus

## Testing period

The performed test started on 2015-04-22 and finished on 2015-05-05.  
The tests have been performed at AT4 wireless.

## Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 80 %
<b>Shielding effectiveness</b>	> 100 dB
<b>Electric insulation</b>	> 10 kΩ
<b>Reference resistance to earth</b>	< 1 Ω

In the semianechoic chamber, the following limits were not exceeded during the test.

<b>Temperature</b>	Min. = 15 °C Max. = 30 °C
<b>Relative humidity</b>	Min. = 45 % Max. = 60 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar
<b>Shielding effectiveness</b>	> 100 dB
<b>Electric insulation</b>	> 10 kΩ
<b>Reference resistance to earth</b>	< 1 Ω
<b>Normal site attenuation (NSA)</b>	< ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz)
<b>Site VSWR</b>	< ±6 dB at 3m distance between item under test and receiver antenna, (1 GHz to 18 GHz)
<b>Field homogeneity</b>	More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 18 GHz).

In the chamber for conducted measurements, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 30 °C
<b>Relative humidity</b>	Min. = 45 % Max. = 60 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar
<b>Shielding effectiveness</b>	> 100 dB
<b>Electric insulation</b>	> 10 kΩ
<b>Reference resistance to earth</b>	< 1 Ω

## Remarks and comments

The tests have been performed by the technical personnel: Antonio Ruiz.

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 150 kHz to 30 MHz is  $I = \pm 3,60$  dB for quasi-peak measurements,  $I = \pm 3,48$  dB for peak measurements ( $k = 2$ ).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1 GHz is  $I = \pm 4,57$  dB for quasi-peak measurements,  $I = \pm 4,48$  dB for peak measurements ( $k = 2$ ) and from 1 to 12,75 GHz is  $I = \pm 3,43$  dB for average and peak measurements.

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 12,75 GHz to 26 GHz is  $I = \pm 4,09$  dB for average and peak measurements.

## Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 45636REM.001 related with the same samples, in the next clauses and sub-clauses:

It was added two operation modes and the corresponding testing results.

This modification test report cancels and replaces the test report 45636REM.001.

## Testing verdicts (Legend)

Not applicable .....	N/A
Pass .....	P
Fail .....	F
Not measured .....	N/M

List of equipment used during the test					
CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1999	EMI Receptor	ROHDE & SCHWARZ	ESIB 26	2013-05-30	2015-05-30
1935	EMI Receptor	ROHDE & SCHWARZ	ESPI 3	2013-12-11	2015-12-11
2932	Bilog Hybrid Antenna	SUNOL	JB6	2014-05-11	2017-05-11
4656	Horn Antenna	SCHWARZBECK	BBHA 9170	2014-03-28	2017-03-28
1658	RF Amplifier	SCHAFFNER	CPA9231A	2013-06-11	2015-06-11
1975	RF Amplifier	MITEQ	JS4	2014-05-22	2016-05-22
3783	RF Amplifier	BONN ELEKTRONIK	BLMA 0118-3A	2013-04-23	2015-05-19
4662	Transient Limiter	SCHWARZBECK	9561-D002	2014-10-02	2016-10-02
1650	Artificial Network	SCHWARZBECK	NNLK - 8121	2013-06-25	2015-06-25

## Appendix A – Test result

## CONTENT

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## DESCRIPTION OF THE OPERATION MODES

The operation modes described in this paragraph constitute a functionality of the sample under test for itself. Every operation mode takes a failure criteria for the immunity test that they were applying to it and a monitoring to guarantee performance of the same ones.

The operation modes used by the samples to which the present report refers, are shown in the following table:

OPERATION MODE	DESCRIPTION
OM#01	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter.
OM#02	EUT ON. TCH LTE Band 20. TX WIFI 2.4GHz. TX Bluetooth. TX NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter.
OM#03	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device)
OM#04	EUT ON. TCH LTE Band 20. TX WIFI 2.4GHz. TX Bluetooth. TX NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device)

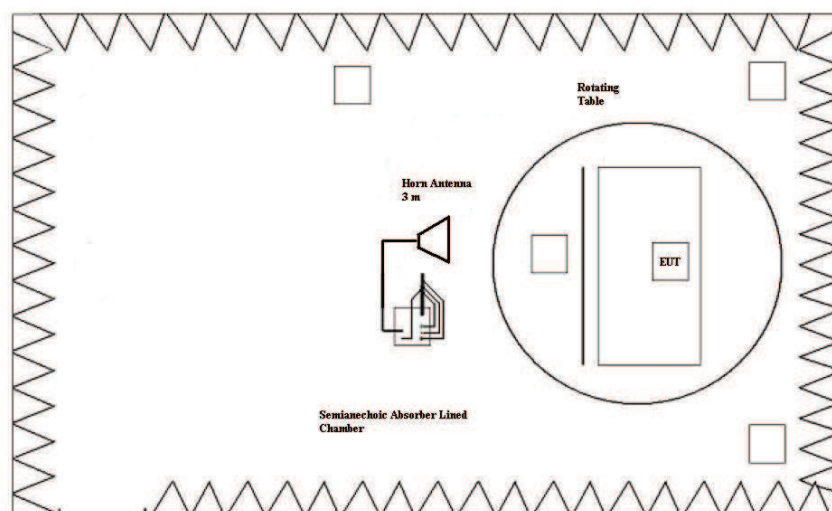
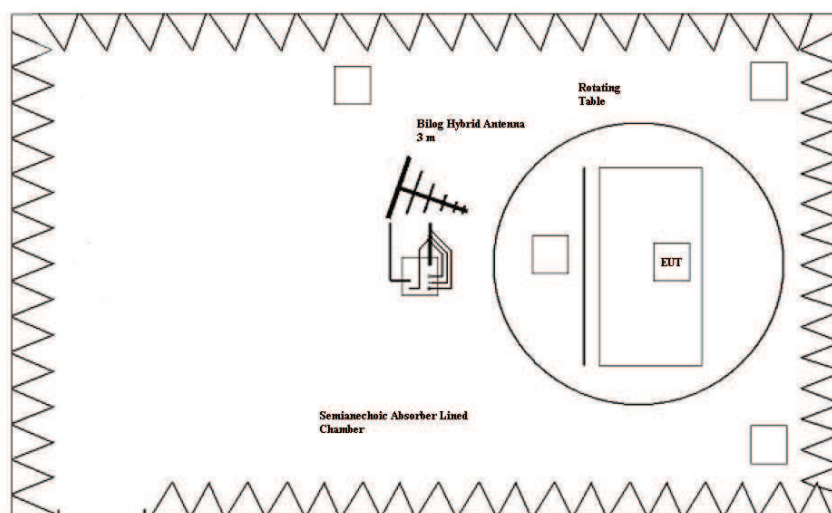
## RADIATED EMISSION. ELECTROMAGNETIC FIELD MEASURE

<b>LIMITS:</b>	<b>Product standard:</b>	FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009
	<b>Test standard:</b>	FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009

### Limits of interference Class B

The applied limit for radiated emissions, 3 m distance, according with the requirements of FCC Rules and Regulations 47 CFR Part 15.109, Subpart B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009 in the frequency range 30 MHz to 26 GHz, for Class B equipment, which is a transmitter in a band over 500 MHz, was:

Frequency range (MHz)	QP Limit for 3 m ( $\mu\text{V/m}$ )	QP Limit for 3 m ( $\text{dB}\mu\text{V/m}$ )
30 to 88	100	40
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98
Above 1000	Limit for 3m AVG	Limit for 3m PK
	53.98 $\text{dB}\mu\text{V/m}$	73.98 $\text{dB}\mu\text{V/m}$

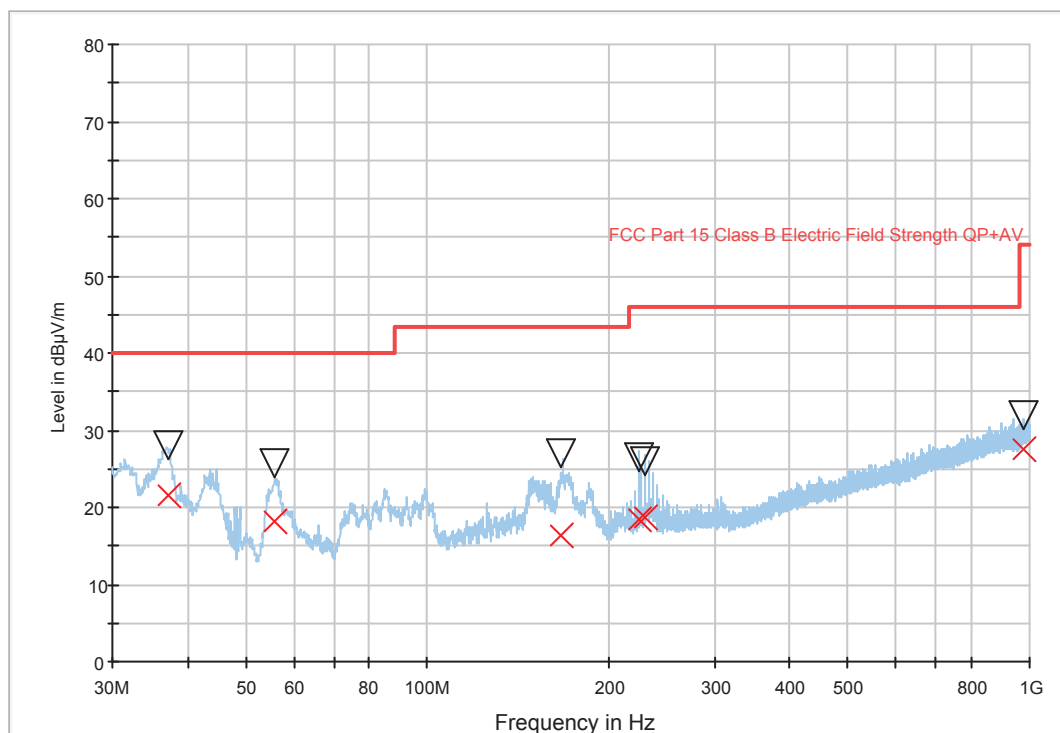


<b>TESTED SAMPLES:</b>	S/02
<b>TESTED OPERATION MODES:</b>	OM#01 & OM#03
<b>TEST RESULTS:</b>	CRmmnnmrpp: CR, Radiation Condition; mm: Sample number; nn: Operation mode; mr: Measured Range; pp: Antenna Polarization.

CRmmnnmrpp	Description	Result
CR0101RB	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Range: 30 - 1000 MHz.	P
CR0101RA1PH	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Range: 1 - 18 GHz Horizontal Polarization.	P
CR0101RA1PV	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Range: 1 - 18 GHz Vertical Polarization.	P
CR0101RA2PH	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Range: 18 - 26 GHz Horizontal Polarization.	P
CR0101RA2PV	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Range: 18 - 26 GHz Vertical Polarization.	P
CR0203RB	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral)	P
CR0203RA1PH	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply by USB port (peripheral). Range: 1 - 18 GHz Horizontal Polarization.	P
CR0203RA1PV	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply by USB port (peripheral). Range: 1 - 18 GHz Vertical Polarization.	P
CR0203RA2PH	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral). Range: 18 - 26 GHz Horizontal Polarization.	P
CR0203RA2PV	EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral). Range: 18 - 26 GHz Vertical Polarization.	P

## Radiated Emission. CR0101RB

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/01  
Operation mode: OM#01  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter.



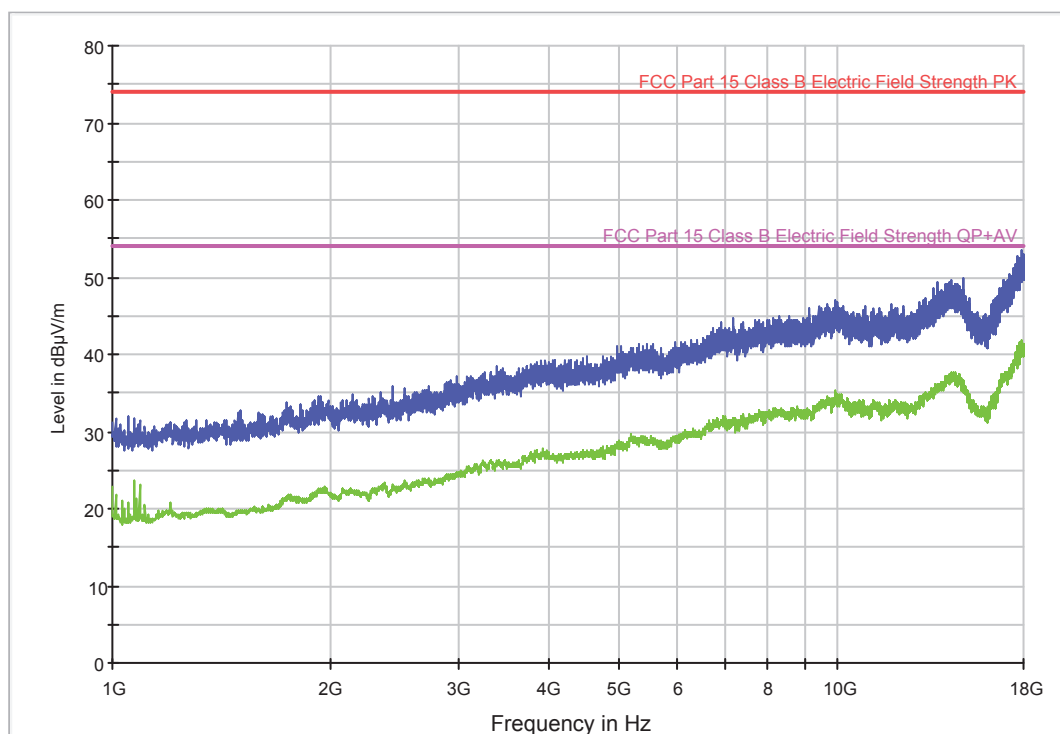
▽ FCC Part 15 Class B Electric Field Strength QP+AV MaxPeak  
Peak Preview  
× QuasiPeak

## Maximizations

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)
37.123246	28.1	21.5	98.0	V	144.0
55.884770	25.7	18.1	120.0	V	35.0
167.282365	27.0	16.5	182.0	H	125.0
223.976152	26.6	18.4	159.0	H	319.0
230.324850	26.1	18.7	153.0	H	-2.0
978.170741	31.9	27.6	380.0	V	147.0

## Radiated Emission. CR0101RA1PH

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/01  
 Operation mode: OM#01  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply 115 Vac with AC/DC adapter. Horizontal Polarization



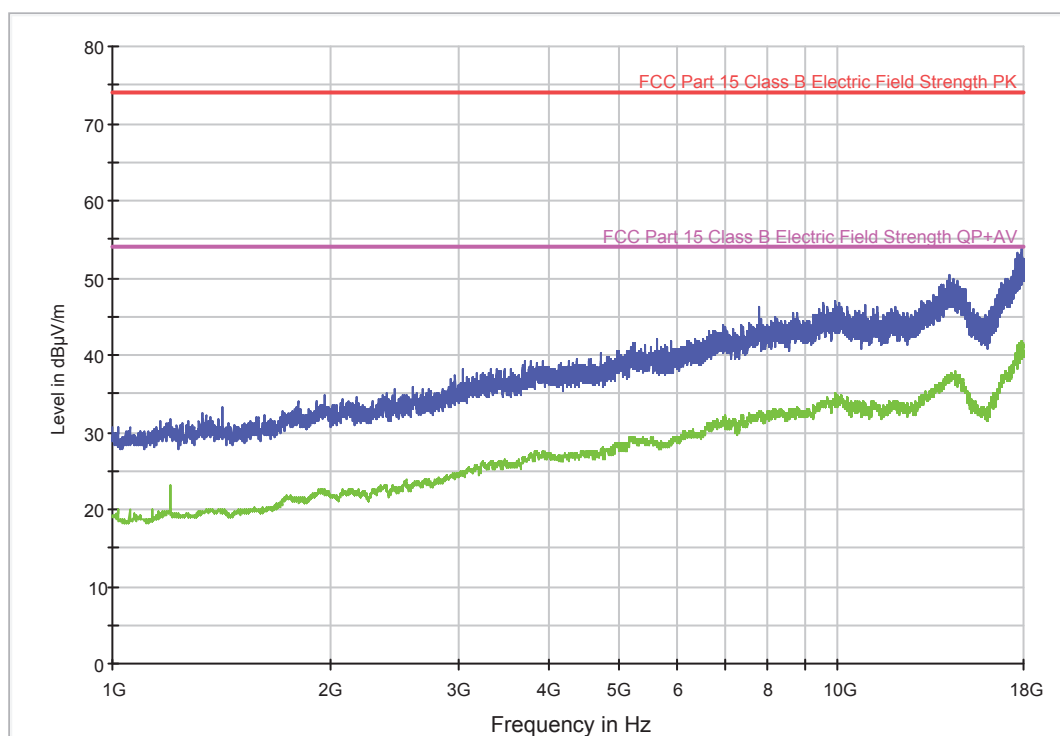
— Peak Preview  
 — FCC Part 15 Class B Electric Field Strength PK  
 — Average Preview  
 — FCC Part 15 Class B Electric Field Strength QP+AV

## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1050.000000	32.0	20.7
1741.000000	33.7	21.4
2340.000000	35.1	22.6
3112.000000	37.2	25.0
3956.000000	39.3	27.0
5441.000000	41.3	28.8
7180.000000	44.6	31.5
9901.000000	47.1	34.9
13171.000000	47.2	35.1
17857.000000	53.6	41.2

## Radiated Emission. CR0101RA1PV

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/01  
 Operation mode: OM#01  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Vertical Polarization.



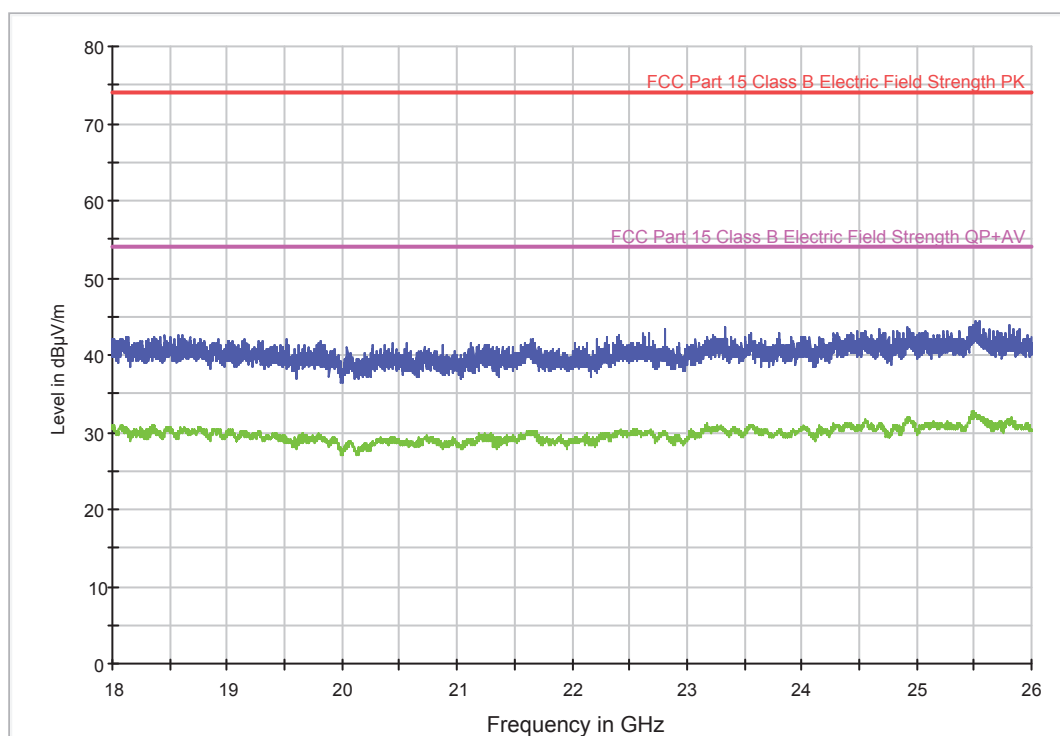
— Peak Preview  
 — FCC Part 15 Class B Electric Field Strength PK  
 — Average Preview  
 — FCC Part 15 Class B Electric Field Strength QP+AV

## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1331.000000	32.4	19.8
1417.000000	33.3	19.8
1961.000000	34.8	22.0
3041.000000	38.1	24.8
3766.000000	39.2	27.1
5619.000000	42.0	28.6
7561.000000	44.1	32.1
9909.000000	46.9	35.1
13247.000000	47.0	34.4
17837.000000	53.8	41.2

## Radiated Emission. CR0101RA2PH

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/01  
Operation mode: OM#01  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Horizontal Polarization



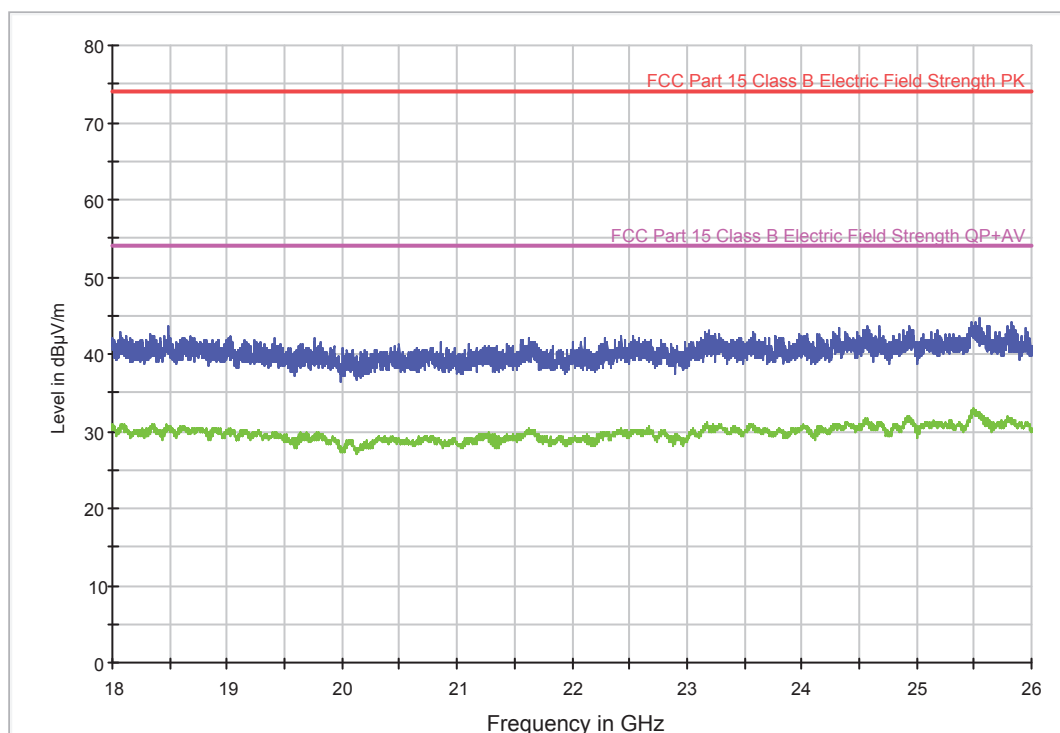
— Peak Preview  
— FCC Part 15 Class B Electric Field Strength PK  
— Average Preview  
— FCC Part 15 Class B Electric Field Strength QP+AV

## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
18607.000000	42.7	30.1
18770.000000	42.0	30.3
19512.000000	42.0	29.0
20438.000000	41.7	29.2
21586.000000	41.5	29.4
22405.000000	42.6	30.0
22806.000000	43.4	30.1
23340.000000	43.7	30.2
24915.000000	43.5	31.4
25554.000000	44.5	31.8

## Radiated Emission. CR0101RA2PV

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/01  
 Operation mode: OM#01  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply 115 Vac with AC/DC adapter. Vertical Polarization.



— Peak Preview  
 — Average Preview  
 — FCC Part 15 Class B Electric Field Strength PK  
 — FCC Part 15 Class B Electric Field Strength QP+AV

## Subrange Maxima

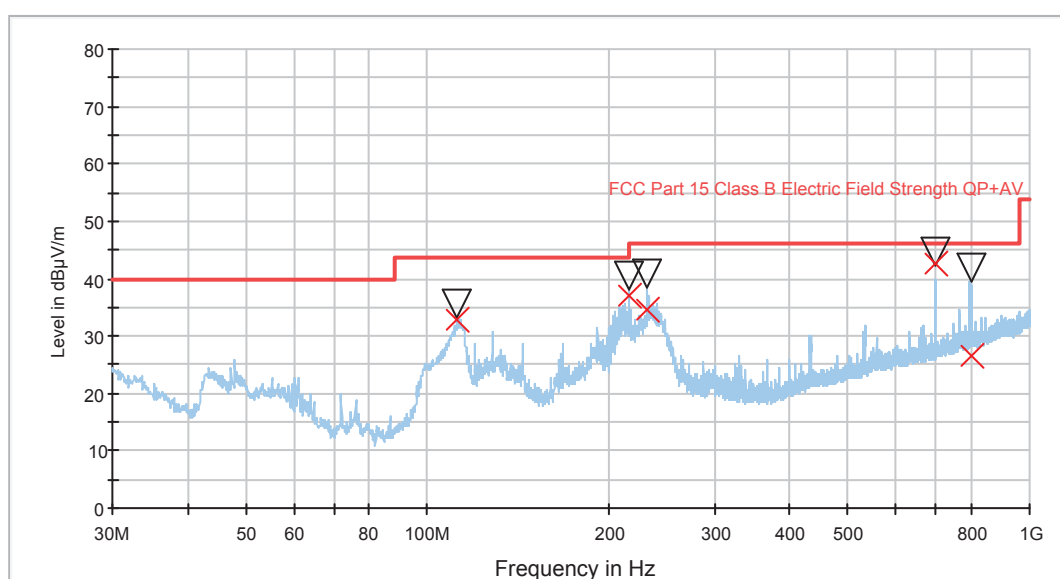
Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
18485.000000	43.6	30.7
19037.000000	42.4	30.1
19414.000000	42.0	29.5
20501.000000	41.3	28.6
21632.000000	42.1	30.0
22421.000000	42.2	30.0
23186.000000	43.0	30.6
23582.000000	42.7	30.7
24942.000000	43.7	31.5
25544.000000	44.6	32.1



## Radiated Emission. CR0203RB

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/02  
 Operation mode: OM#03  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device).

## FCC class B Bilog Hybrid AMP2193



▽ FCC Part 15 Class B Electric Field Strength QP+AV MaxPeak  
 × Peak Preview QuasiPeak

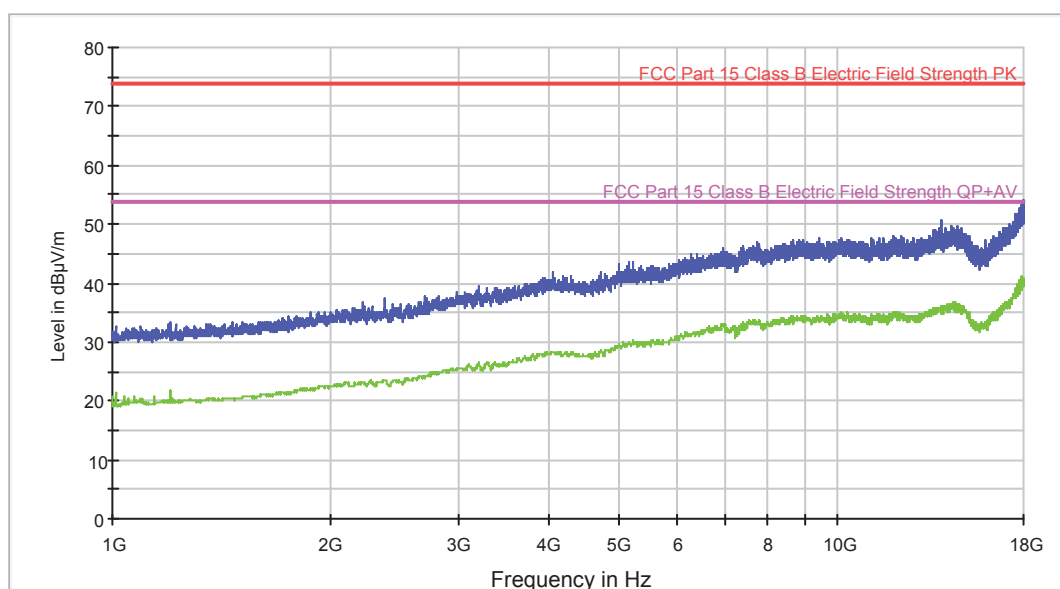
## Maximizations

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)
112.156914	35.7	32.7	98.0	V	149.0
215.690982	40.5	37.1	146.0	H	95.0
232.262926	40.8	34.7	121.0	H	196.0
699.817034	44.8	42.7	156.0	V	204.0
799.030862	41.7	26.5	170.0	V	88.0

## Radiated Emission. CR0203RA1PH

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/02  
 Operation mode: OM#03  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device).Horizontal Polarization

## FCC 1-18GHz class B ESIB Bocina0245 AMP3783



— MaxPeak-ClearWrite-PK+      — Average-ClearWrite-AVG  
 — FCC Part 15 Class B Electric Field Strength PK      — FCC Part 15 Class B Electric Field Strength QP+AV

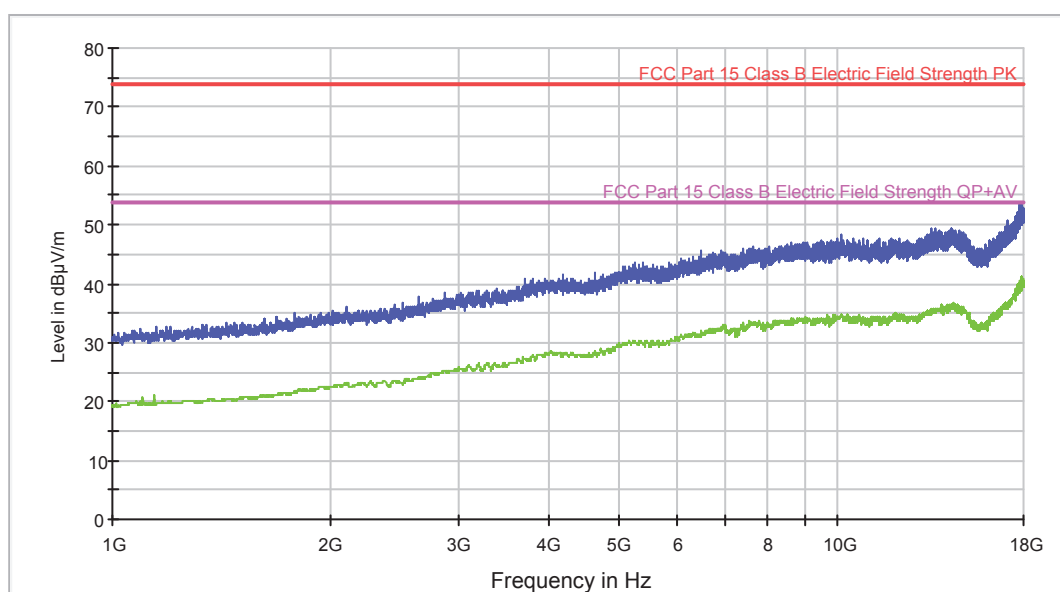
## Max PK-AVG

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1200.000000	33.3	21.8
1745.000000	34.4	21.4
2369.000000	37.5	23.4
3168.000000	38.7	25.6
4050.000000	41.8	28.1
5155.000000	43.4	29.9
7391.000000	46.1	33.0
10095.000000	47.8	34.7
12202.000000	48.0	34.3
17958.000000	54.0	40.2

## Radiated Emission. CR0203RA1PV

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/02  
Operation mode: OM#03  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device). Vertical Polarization.

## FCC 1-18GHz class B ESIB Bocina0245 AMP3783



— MaxPeak-ClearWrite-PK+      — Average-ClearWrite-AVG  
— FCC Part 15 Class B Electric Field Strength PK      — FCC Part 15 Class B Electric Field Strength QP+AV

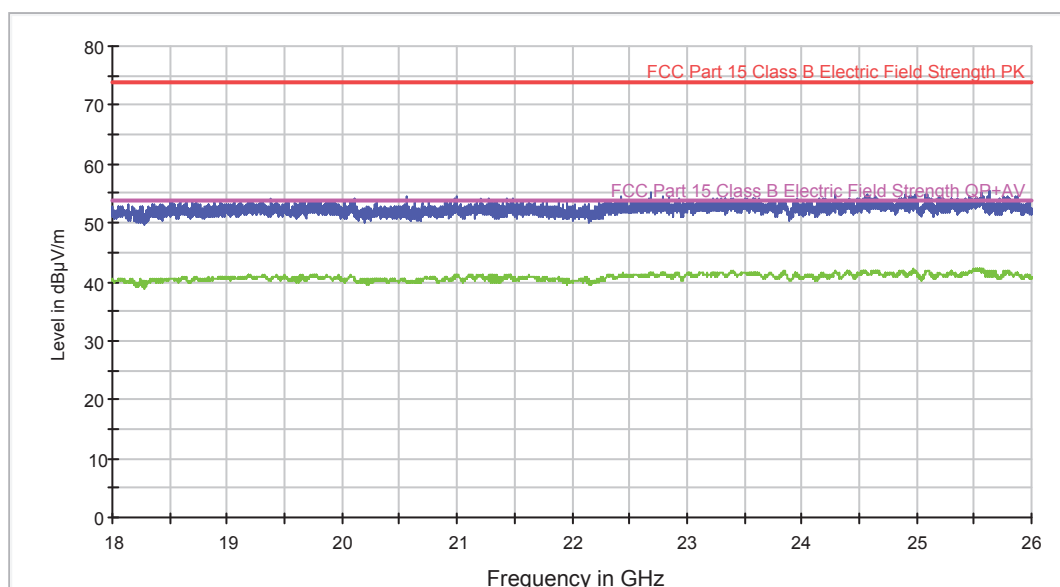
## Max PK-AVG

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1335.000000	32.9	19.9
1778.000000	35.2	21.4
2098.000000	36.1	22.9
3125.000000	38.6	25.5
4176.000000	41.5	28.0
5252.000000	43.5	29.9
7382.000000	45.9	33.2
9941.000000	47.5	34.3
13451.000000	49.3	35.6
17942.000000	53.5	41.0

## Radiated Emission. CR0203RA2PH

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/02  
Operation mode: OM#03  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device). Horizontal Polarization

## FCC 18-26GHz class B ESIB Bocina1920 AMP1975



— MaxPeak-ClearWrite-PK+      — Average-ClearWrite-AVG  
— FCC Part 15 Class B Electric Field Strength PK      — FCC Part 15 Class B Electric Field Strength QP+AV

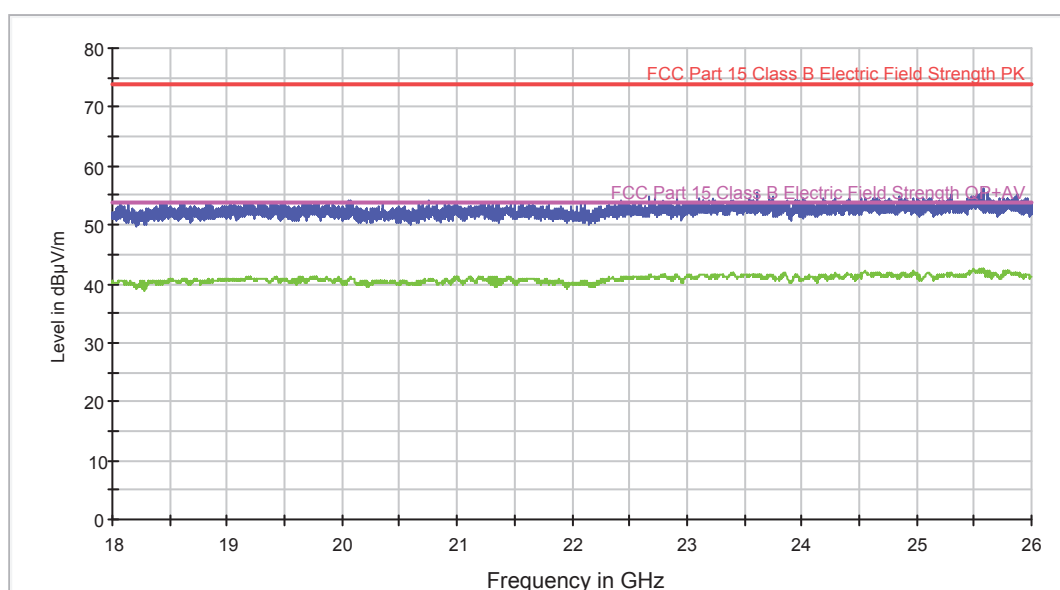
## Max PK-AVG

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Average-ClearWrite (dBμV/m)
18598.000000	53.8	40.6
19312.000000	53.7	41.0
19385.000000	54.3	40.4
20561.000000	54.4	40.2
20992.000000	54.4	41.0
22433.000000	54.3	41.2
22693.000000	55.3	41.4
23293.000000	54.2	41.4
24572.000000	54.7	41.3
25633.000000	55.6	41.8

## Radiated Emission. CR0203RA2PV

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/02  
Operation mode: OM#03  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device). Vertical Polarization.

## FCC 18-26GHz class B ESIB Bocina1920 AMP1975



— MaxPeak-ClearWrite-PK+      — Average-ClearWrite-AVG  
— FCC Part 15 Class B Electric Field Strength PK      — FCC Part 15 Class B Electric Field Strength QP+AV

## Max PK-AVG

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Average-ClearWrite (dBμV/m)
18077.000000	53.8	40.6
19294.000000	53.9	40.9
20063.000000	54.1	40.9
20756.000000	54.1	40.6
21568.000000	53.9	40.8
22420.000000	54.0	41.0
22678.000000	54.6	41.3
23610.000000	55.4	41.5
24857.000000	54.6	41.6
25574.000000	56.1	42.5

## CONTINUOUS CONDUCTED EMISSION ON POWER LEADS

<b>LIMITS:</b>	<b>Product standard:</b>	FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009
	<b>Test standard:</b>	FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009

### Class B

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-01-13 Edition); ICES-003 ISSUE 5 (2012) & ANSI C63.4-2009, in the frequency range 0,15 to 30 MHz, for Class B equipment was:

Frequency range (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

\*Decreases with the logarithm of the frequency

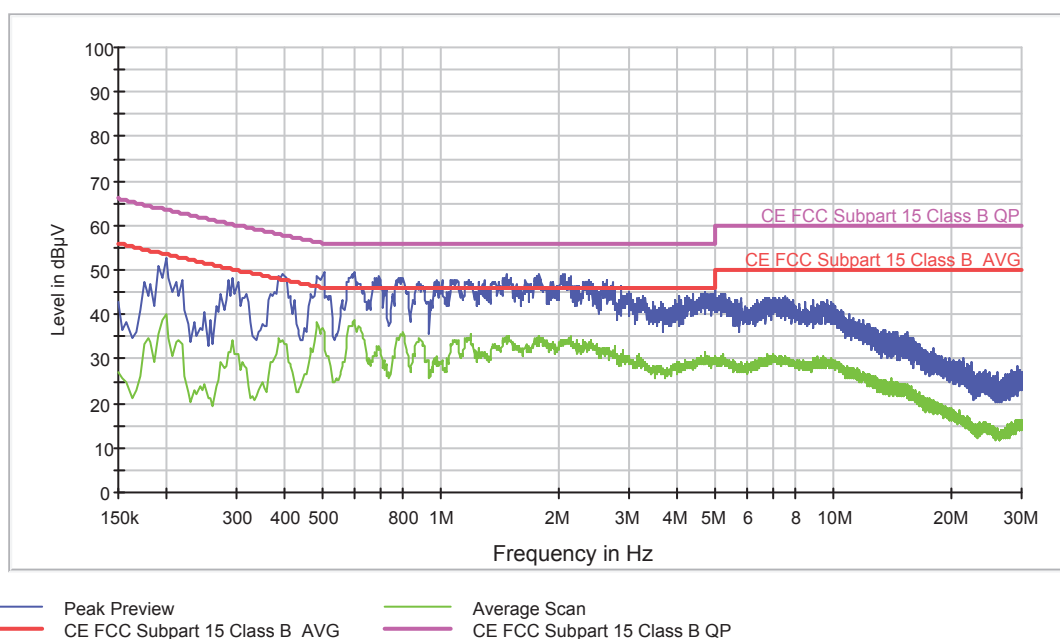
<b>TESTED SAMPLES:</b>	S/01 & S/02
<b>TESTED OPERATION MODES:</b>	OM#01 to OM#04
<b>TEST RESULTS:</b>	CCmmnn: CC, Conducted Condition; mm: Sample number; nn: Operation mode;

CCmmnn	Description	Result
CC01010N	Neutral wire noise.	P
CC0101L1	Phase wire noise.	P
CC01020N	Neutral wire noise.	P
CC0102L1	Phase wire noise.	P
CC02030N	Neutral wire noise.	P
CC0203L1	Phase wire noise.	P
CC02040N	Neutral wire noise.	P
CC0204L1	Phase wire noise.	P

## Conducted Emission. CC01010N

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/01  
Operation mode: OM#01  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Neutral noise.

## EC EMI 55022 Class B ESU CC



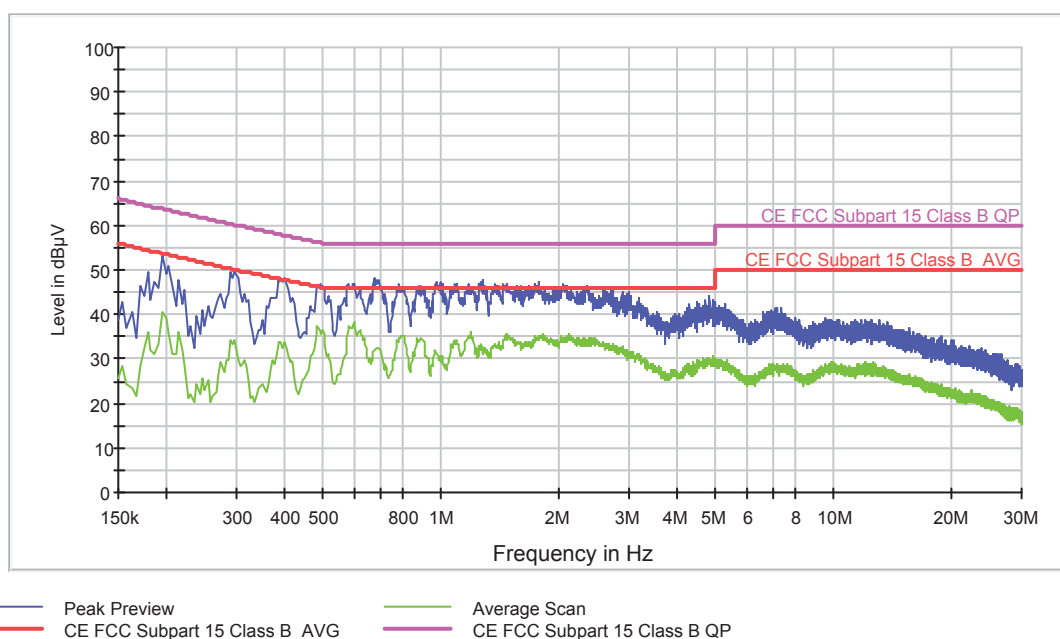
## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBμV)	Average-ClearWrite (dBμV)
0.198000	52.6	40.3
0.394000	48.9	34.1
0.602000	49.6	37.8
0.782000	48.4	35.7
1.778000	49.2	34.9
2.122000	48.5	35.1
4.962000	45.8	30.2
7.458000	44.3	30.8
10.506000	40.4	28.1
17.982000	32.6	19.6

## Conducted Emission. CC0101L1

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/01  
Operation mode: OM#01  
Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Phase noise.

## EC EMI 55022 Class B ESU CC



## Subrange Maxima

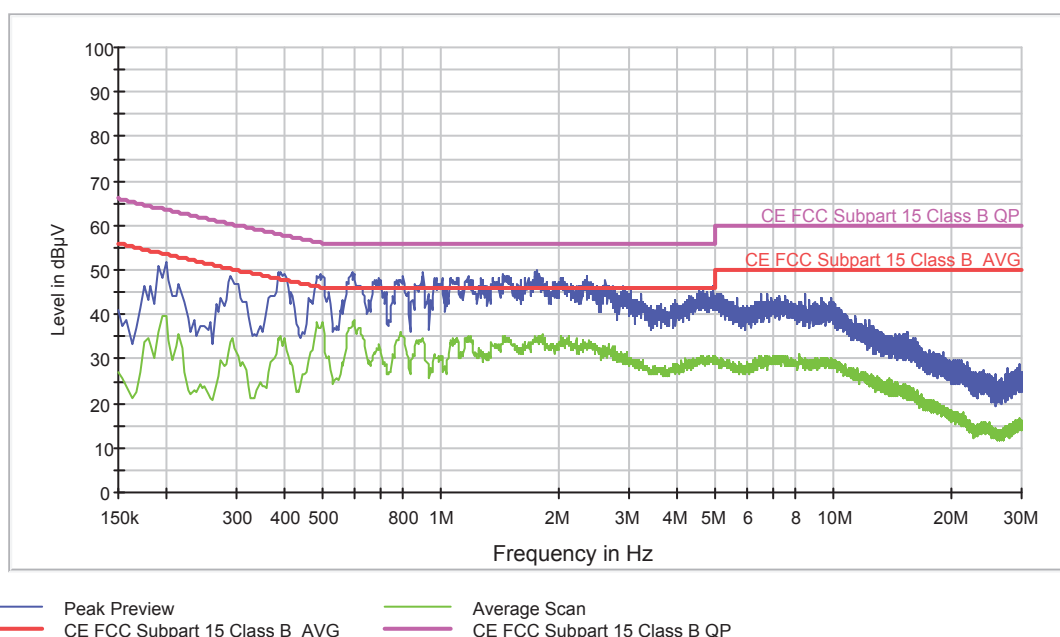
Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.194000	53.2	40.3
0.298000	49.7	34.2
0.674000	48.1	32.0
0.990000	47.3	30.9
1.270000	47.6	32.4
2.346000	46.5	32.9
4.806000	44.3	30.4
7.310000	41.6	27.5
11.686000	39.0	26.9
18.650000	35.0	23.9



## Conducted Emission. CC01020N

Project: 45636REM.001  
Company: YOTA DEVICE LTD  
Sample: S/01  
Operation mode: OM#02  
Description: EUT ON. TCH LTE Band 20. TX WIFI 2.4GHz. TX Bluetooth. TX NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Neutral noise.

## EC EMI 55022 Class B ESU CC



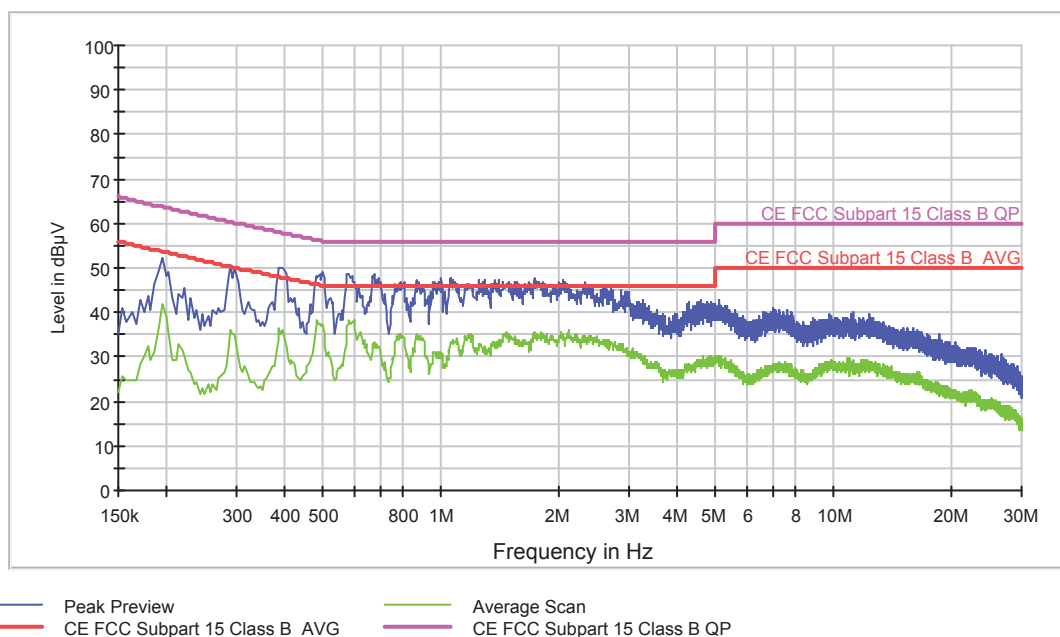
## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.198000	51.8	39.8
0.382000	49.4	34.8
0.590000	49.4	37.6
0.898000	49.4	34.4
1.754000	49.8	34.7
2.346000	48.7	33.5
4.906000	46.4	30.8
6.546000	44.6	29.6
10.398000	40.9	28.8
17.954000	31.7	19.7

## Conducted Emission. CC0102L1

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/01  
 Operation mode: OM#02  
 Description: EUT ON. TCH LTE Band 20. TX WIFI 2.4GHz. TX Bluetooth. TX NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Phase noise.

## EC FCC Class B ESU40 CC



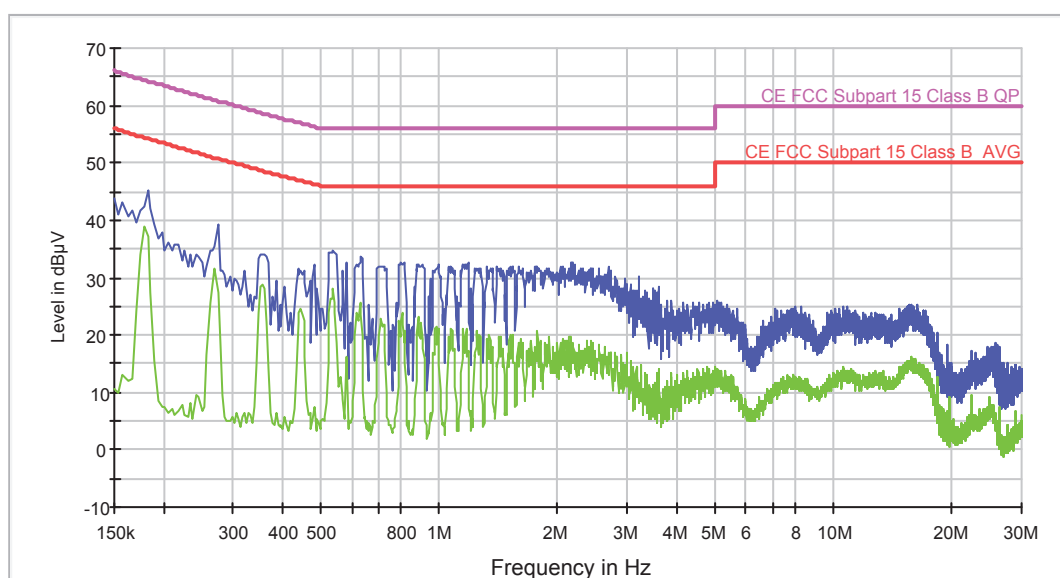
## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.194000	52.1	41.9
0.290000	50.5	36.0
0.498000	49.1	37.6
0.998000	47.8	31.1
1.718000	47.6	35.4
2.330000	46.7	34.8
5.090000	42.8	29.8
7.022000	41.1	28.3
11.134000	40.2	28.3
18.486000	35.0	24.0

## Conducted Emission. CC02030N

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/02  
 Operation mode: OM#03  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: 115 Vac with AC/DC adapter. Neutral noise.

## EC FCC Class B ESU40 CC



— Peak Preview  
 — CE FCC Subpart 15 Class B AVG  
 — Average Scan  
 — CE FCC Subpart 15 Class B QP

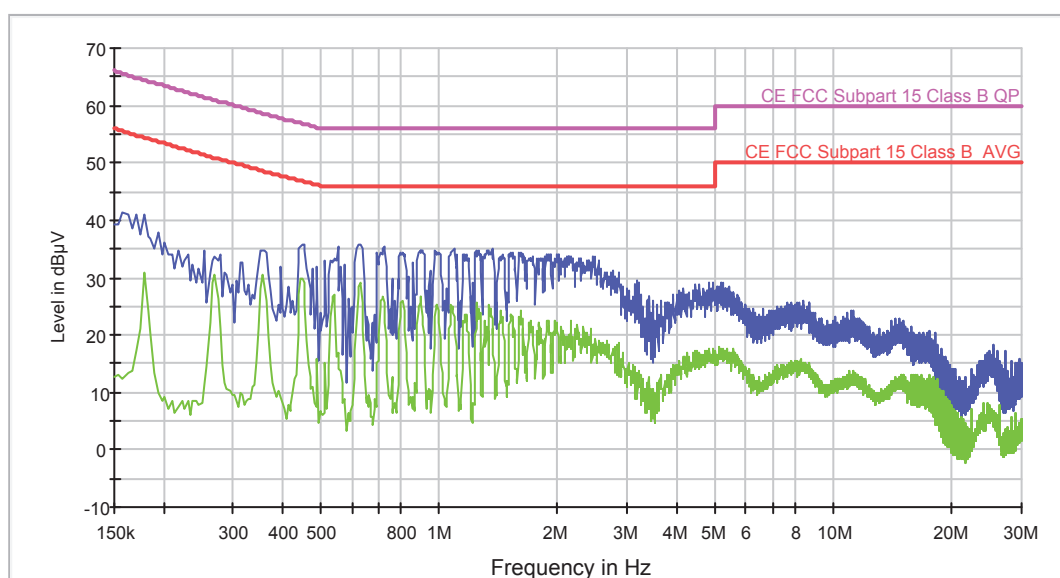
## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.182000	45.3	37.1
0.274000	39.4	27.5
0.538000	34.7	27.9
0.814000	32.7	18.7
1.514000	32.1	19.9
2.174000	32.6	18.5
3.614000	27.7	14.3
8.290000	25.0	12.1
15.534000	25.3	15.3
17.694000	21.6	12.5

## Conducted Emission. CC0203L1

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/02  
 Operation mode: OM#03  
 Description: EUT ON. IDLE LTE Band 20. IDLE WIFI. IDLE Bluetooth. IDLE NFC. GPS/GNSS ON. Power supply: Power supply: by USB port (peripheral device). Phase noise.

## EC FCC Class B ESU40 CC



— Peak Preview  
 — CE FCC Subpart 15 Class B AVG  
 — Average Scan  
 — CE FCC Subpart 15 Class B QP

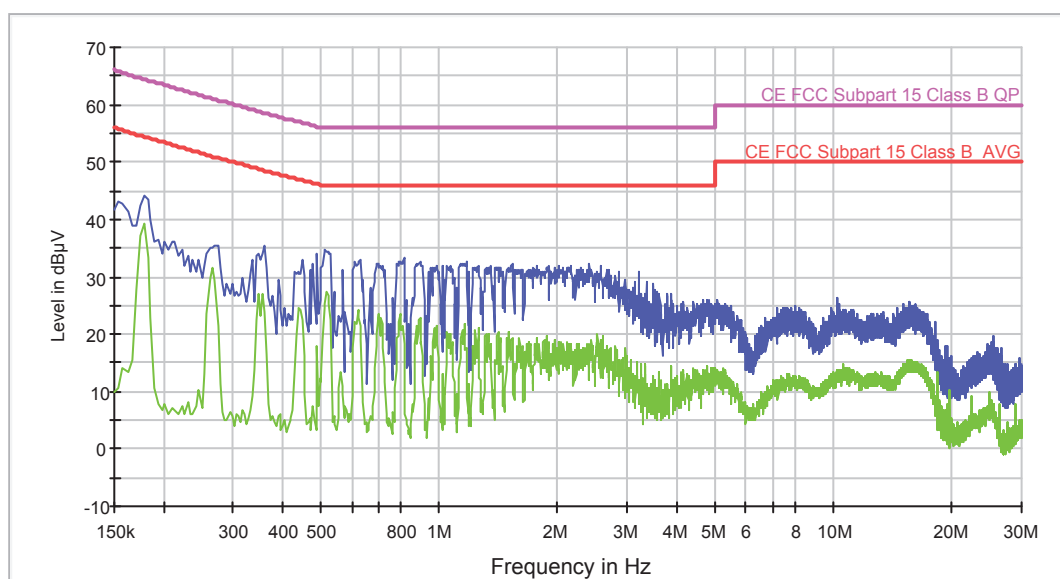
## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.158000	41.4	12.4
0.358000	34.8	30.6
0.626000	35.9	28.5
1.090000	35.0	23.3
1.362000	34.9	22.8
2.162000	33.7	17.7
5.222000	29.1	17.6
8.358000	25.8	14.9
11.202000	24.4	12.4
18.074000	20.6	11.9

## Conducted Emission. CC02040N

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/02  
 Operation mode: OM#04  
 Description: EUT ON. TCH LTE Band 20. TX WIFI 2.4GHz. TX Bluetooth. TX NFC. GPS/GNSS ON. Power supply: Power supply: by USB port (peripheral device). Neutral noise.

## EC FCC Class B ESU40 CC



— Peak Preview  
 — CE FCC Subpart 15 Class B AVG  
 — Average Scan  
 — CE FCC Subpart 15 Class B QP

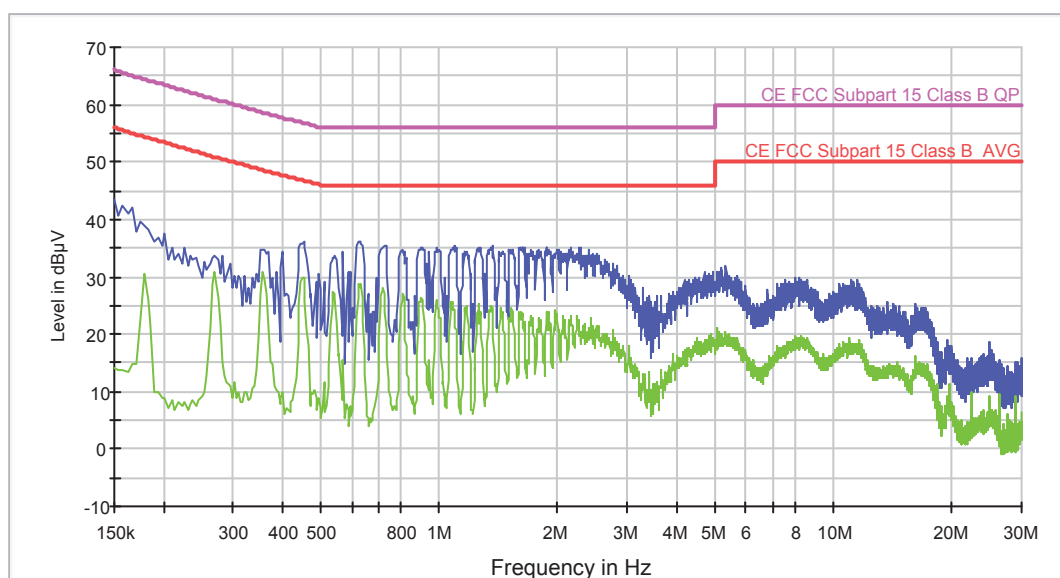
## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.178000	44.0	39.2
0.362000	35.6	23.9
0.514000	34.7	25.4
0.814000	33.2	18.3
1.530000	32.3	19.5
2.410000	32.2	18.4
3.870000	27.0	14.3
10.262000	26.3	12.9
15.642000	25.7	15.1
18.066000	22.1	7.7

## Conducted Emission. CC0204L1

Project: 45636REM.001  
 Company: YOTA DEVICE LTD  
 Sample: S/02  
 Operation mode: OM#04  
 Description: EUT ON. TCH LTE Band 20. TX WIFI 2.4GHz. TX Bluetooth. TX NFC. GPS/GNSS ON. Power supply: by USB port (peripheral device). Phase noise.

## EC FCC Class B ESU40 CC



— Peak Preview  
 — Average Scan  
 — CE FCC Subpart 15 Class B AVG  
 — CE FCC Subpart 15 Class B QP

## Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.150000	43.3	14.1
0.362000	34.9	29.3
0.622000	36.0	26.4
1.094000	35.3	23.4
1.366000	35.3	23.1
2.286000	34.9	20.2
5.342000	31.9	20.0
8.162000	29.8	19.0
11.450000	29.6	17.8
17.786000	22.1	11.7