



Test report No:
NIE: 51670REM.001

Test report

FCC Rules and Regulations CFR 47, Part 15, Subpart C (10-1-15 Edition) & ICES-003 ISSUE 6 (2016)

Identification of item tested	Edge Computing Gateway
Trademark	EC3331
Model and/or type reference	EC3331
Other identification of the product	S/N: FZAUS171100026
Final HW version	1.0
Final SW version	4.4
FCC ID	QQD-EC3331
IC	5248S-EC3331
IMEI	In Progress – Dekra to obtain from PTCRB
Features	GSM/UMTS FDD: 850MHz Band I/900MHz Band II/1800MHz Band V/1900MHz Band VIII BT/WiFi/Z-Wave/NFC/GNSS
Manufacturer	Flextronics Canada Design Services Inc. 1280 Teron Rd., Kanata On., Canada, K2K 2C1
Test method requested, standard	FCC CFR 47, Part 15, Subpart C (10-1-15 Edition) & ICES-003 Issue 6 (2016)
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Rafael López EMC Lab Manager
Date of issue	2017-06-22
Report template No.	FDT08_19

Index

Competences and guarantees.....3

General conditions.....3

Usage of samples.....4

Test sample description4

Identification of the client4

Testing period.....4

Environmental conditions.....5

Remarks and comments.....6

Testing verdicts (Legend).....6

List of equipment used during the test.....6

Appendix A – Test result.....7

Competences and guarantees

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

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2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification, S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Testing and Certification, S.A.U. 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
51670/025	EDGE Computing Gateway	EC3331	FZAUS17110000Y	2017-05-08
51670/111	Charging base	---	---	2017-05-25
51670/112	AC/DC Adapter	S008ACM0500200	---	2017-05-25

Sample S/02, test arrangement for tabletop equipment according to ANSI C63.4, composed of the following elements:

Control N°	Description	Model	Serial number	Reception date
51670/025	EDGE Computing Gateway	EC3331	FZAUS17110000Y	2017-05-08
51670/112	AC/DC Adapter	S008ACM0500200	---	2017-05-25

Sample S/03 is composed of the following elements:

Control N°	Description	Model	Serial number	Reception date
51670/150	EDGE Computing Gateway	EC3331	Prototype	2017-06-05
51670/111	Charging base	---	---	2017-05-25
51670/112	AC/DC Adapter	S008ACM0500200	---	2017-05-25

Sample S/04, test arrangement for tabletop equipment according to ANSI C63.4, composed of the following elements:

Control N°	Description	Model	Serial number	Reception date
51670/150	EDGE Computing Gateway	EC3331	Prototype	2017-06-05
51670/112	AC/DC Adapter	S008ACM0500200	---	2017-05-25

Test sample description

The product is a gateway that gathers data wirelessly (using Bluetooth, Wi-Fi, GNSS, NFC, and possibly Z-Wave) and sends it to a cloud server via cellular (2G/3G) or Wi-Fi network connections.

Identification of the client

FLEXTRONICS CANADA DESIGN SERVICES INC.
1280 Teron Rd., Kanata On, Canada., K2K 2C1.

Testing period

The performed test started on 2017-05-26 and finished on 2017-06-06.

The tests have been performed at DEKRA Testing and Certification, S.A.U.

Environmental conditions

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Jesús García, Ismael Gamarro & Jorge Mora.

The total uncertainty of the measurement system for the measured conducted disturbance characteristics of EUT from 150 kHz to 30 MHz is $I = \pm 3,9$ dB for quasi-peak measurements, $I = \pm 3,2$ dB for average measurements ($k = 2$).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1000 MHz is $I = \pm 4,9$ dB for quasi-peak measurements, $I = \pm 4,6$ dB for peak measurements ($k = 2$).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 1000 MHz to 26GHz is $I = \pm 2,6$ dB for peaks and average measurements ($k = 2$).

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
2942	EMI TEST Receiver	ROHDE & SCHWARZ	ESU40	2016-06-14	2017-10-09
4578	Bilog Antenna	ETS LINDGREN	3142E	2017-04-03	2020-04-03
2933	Preamplifier	A.H Systems	PAM-0207	2016-09-19	2017-09-19
4612	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2016-12-19	2019-12-19
3783	Preamplifier	BONN ELEKTRONIK	BLMA 0118-3A	2017-05-03	2018-05-03
4656	Horn Antenna	SCHWARZBECK	BBHA 9170	2017-03-24	2020-03-24
1975	Preamplifier	MITEQ	JS4-12002600-30-5A	2015-10-06	2017-10-06
4570	Thermohigrometer	HW GROUP	HWg-STE	2017-04-25	2018-04-25
4567	Thermohigrometer	HW GROUP	HWg-STE	2017-04-25	2018-04-25
4522	EMC measurement software	ROHDE & SCHWARZ	EMC32 V9.01	---	---

Appendix A – Test result

APPENDIX A CONTENT

DESCRIPTION OF THE OPERATION MODES.....9

RADIATED EMISSION. ELECTROMAGNETIC FIELD MEASURE10

CONTINUOUS CONDUCTED EMISSION.....22

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. Bluetooth in IDLE mode. WiFi in IDLE mode. 2G 1800MHz in IDLE mode. ZWave in IDLE mode. NFC in IDLE mode. GPS ON. Power supply: 115Vac. (Worst case)
OM#02	EUT ON. Bluetooth in IDLE mode. WiFi in IDLE mode. 2G 1800MHz in IDLE mode. ZWave in IDLE mode. NFC in IDLE mode. GPS ON. Transferring data via USB port. Power supply: 5Vdc (USB port). (Worst case)
OM#03	EUT ON. Bluetooth paired with auxiliary device. WiFi active and connected. 2G 1800MHz in TCH mode. NFC in Tx mode. GPS ON. ZWave in IDLE mode. Transferring data via USB port. Power supply: 5Vdc. (USB port)
OM#04	EUT ON. Bluetooth paired with auxiliary device. WiFi active and connected. 2G 1800MHz in TCH mode. NFC in Tx mode. GPS ON. ZWave in IDLE mode. Power supply: 115Vac.
OM#05	EUT ON. Bluetooth paired with auxiliary device. WiFi active and connected. 3G band II in TCH mode. NFC in TX mode. GPS ON. ZWave in IDLE mode. Transferring data via USB port. Power supply: 5Vdc. (USB port)
OM#06	EUT ON. Bluetooth paired with auxiliary device. WiFi active and connected. 3G band II in TCH mode. NFC in TX mode. GPS ON. ZWave in IDLE mode. Power supply: 115Vac.
OM#07	EUT ON. Bluetooth in IDLE mode. WiFi in IDLE mode. 2G 1800MHz in IDLE mode. 3G Band II in IDLE mode. NFC in IDLE mode. GPS ON. ZWave in TX mode. Power supply: 115Vac.
OM#08	EUT ON. Bluetooth in IDLE mode. WiFi in IDLE mode. 2G 1800MHz in IDLE mode. 3G Band II in IDLE mode. NFC in IDLE mode. GPS ON. ZWave in TX mode. Power supply: 5Vdc. (USB port)

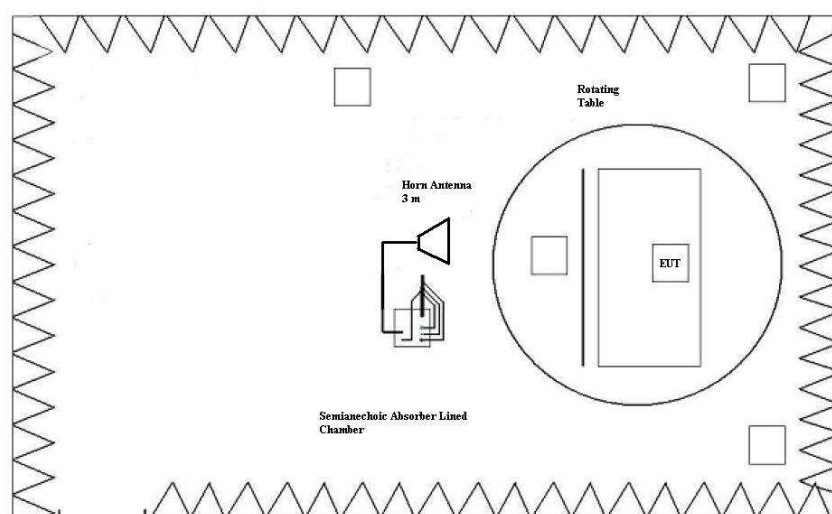
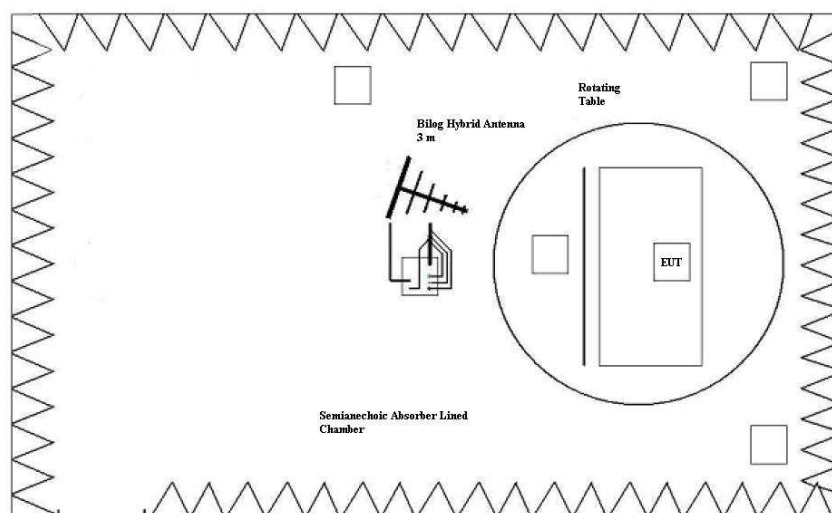
RADIATED EMISSION. ELECTROMAGNETIC FIELD MEASURE

LIMITS:	Product standard:	FCC CFR 47, Part 15, Subpart C (10-1-15 Edition), Secs. 15.209 & ICES-003 Issue 6 (2016)
	Test standard:	FCC CFR 47, Part 15, Subpart C (10-1-15 Edition), Secs. 15.209 & ICES-003 Issue 6 (2016)

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, Subpart C (10-01-15 Edition), Secs. 15.209 & ICES-003 Issue 6 (2016) in the frequency range 30 MHz to 26 GHz for class B equipments.

Frequency range (MHz)	QP Limit for 3 m		PK Limit for 3 m
	($\mu\text{V/m}$)	(dB $\mu\text{V/m}$)	(dB $\mu\text{V/m}$)
30 to 88	100	40	---
88 to 216	150	43.5	---
216 to 960	200	46	---
Above 960	500	54	74



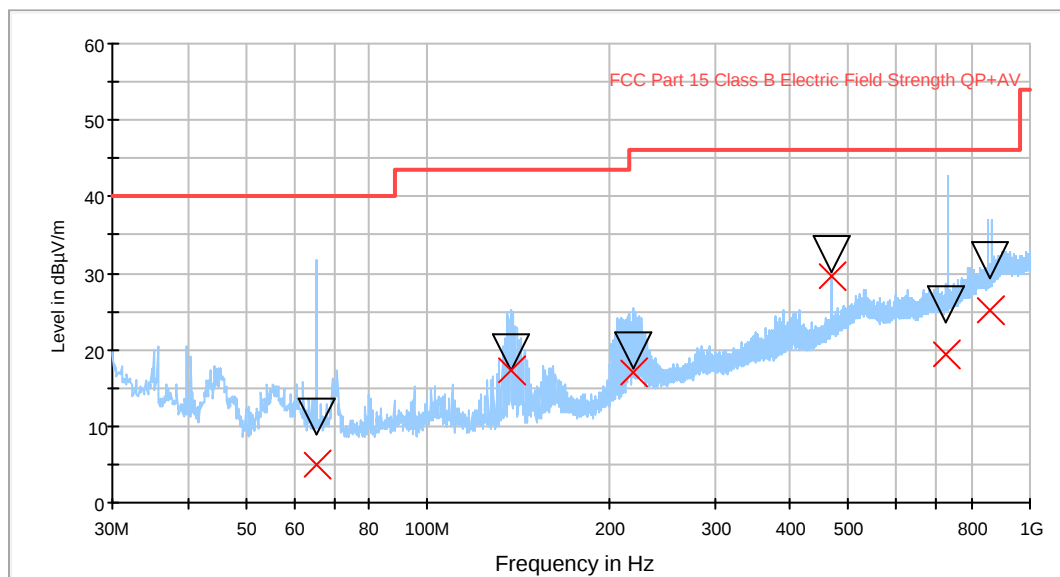
TESTED SAMPLE:	S#01 & S#02
TESTED OPERATION MODES:	OM#01 & OM#02
TEST RESULTS:	CRmmnnRRPP: CR, Radiation Condition; mm: Sample number; nn: Operation mode; RR: Range; PP: Polarization.

CRmmnnRRPP	Description	Result
CR0101LR	Range: 30 MHz - 1000 MHz.	P
CR0101HR1_PH	Range: 1 GHz - 18 GHz. Horizontal Polarization.	P
CR0101HR1_PV	Range: 1 GHz - 18 GHz. Vertical Polarization.	P
CR0101HR2_PH	Range: 18 GHz - 26 GHz. Horizontal Polarization.	P
CR0101HR2_PV	Range: 18 GHz - 26 GHz. Vertical Polarization.	P
CR0202LR	Range: 30 MHz - 1000 MHz.	P
CR0202HR1_PH	Range: 1 GHz - 18 GHz. Horizontal Polarization.	P
CR0202HR1_PV	Range: 1 GHz - 18 GHz. Vertical Polarization.	P
CR0202HR2_PH	Range: 1 GHz - 18 GHz. Horizontal Polarization.	P
CR0202HR2_PV	Range: 1 GHz - 18 GHz. Vertical Polarization.	P

Radiated Emission. CR0101LR

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac.

FCC class B



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

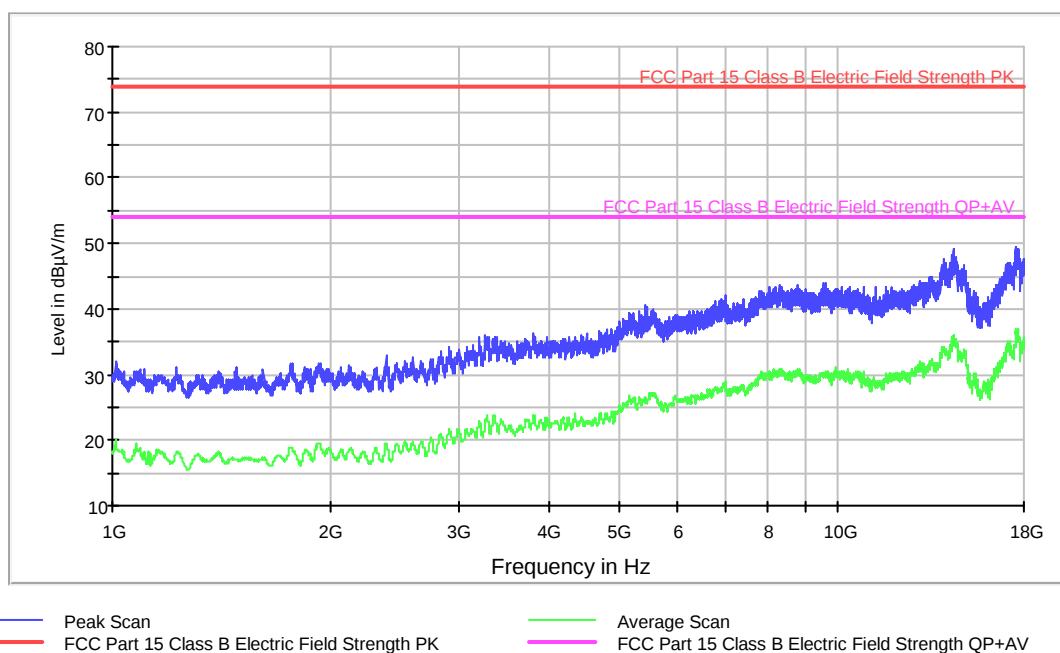
Maximizations

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)
65.595190	11.3	5.1	301.0	H	298.0
137.274749	19.6	17.4	132.0	V	173.0
219.815030	19.9	17.0	162.0	H	100.0
467.968938	32.6	29.6	123.0	V	49.0
727.792585	26.0	19.3	238.0	V	3.0
861.220441	31.7	25.1	361.0	H	174.0

Radiated Emission. CR0101HR1_PH

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac. Horizontal pol.

FCC 1-18GHz class B



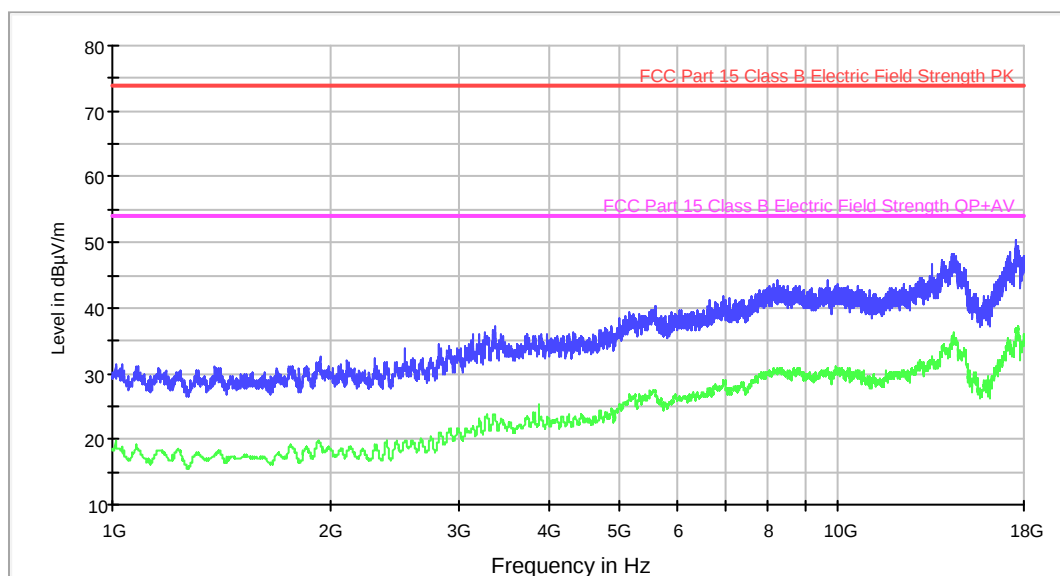
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1016.000000	31.9	18.6
1765.000000	31.7	19.0
1919.000000	31.6	19.6
3137.000000	34.6	21.6
3805.000000	36.2	23.8
5417.000000	40.4	26.5
6981.000000	42.2	28.7
9594.000000	43.9	29.7
13362.000000	45.0	31.7
17562.000000	49.3	36.6

Radiated Emission. CR0101HR1_PV

Project: 51670REM.001
Company: CONTINENTAL AUTOMOTIVE RAMBOUILLET FRANCE SAS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac. Vertical Pol.

FCC 1-18GHz class B



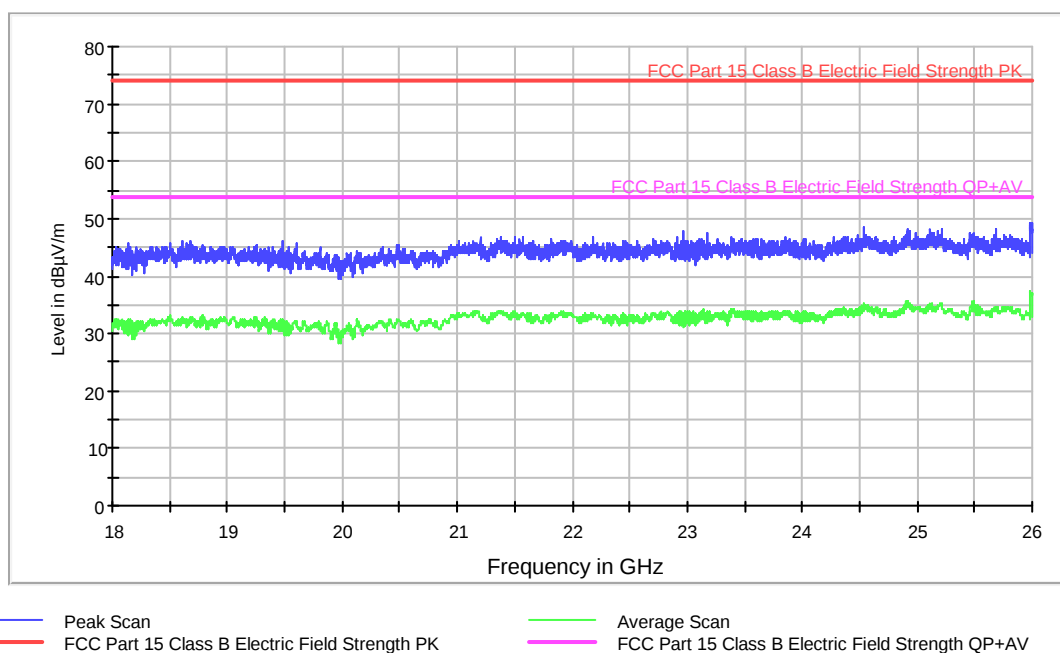
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1015.000000	31.4	18.6
1765.000000	31.2	19.0
1930.000000	32.6	19.5
3133.000000	36.1	21.8
3358.000000	37.3	23.8
5590.000000	40.3	27.0
6941.000000	41.7	28.8
9656.000000	44.3	30.6
13434.000000	46.5	32.5
17585.000000	50.2	36.6

Radiated Emission. CR0101HR2_PH

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac. Horizontal Pol.

FCC 18-26GHz class B



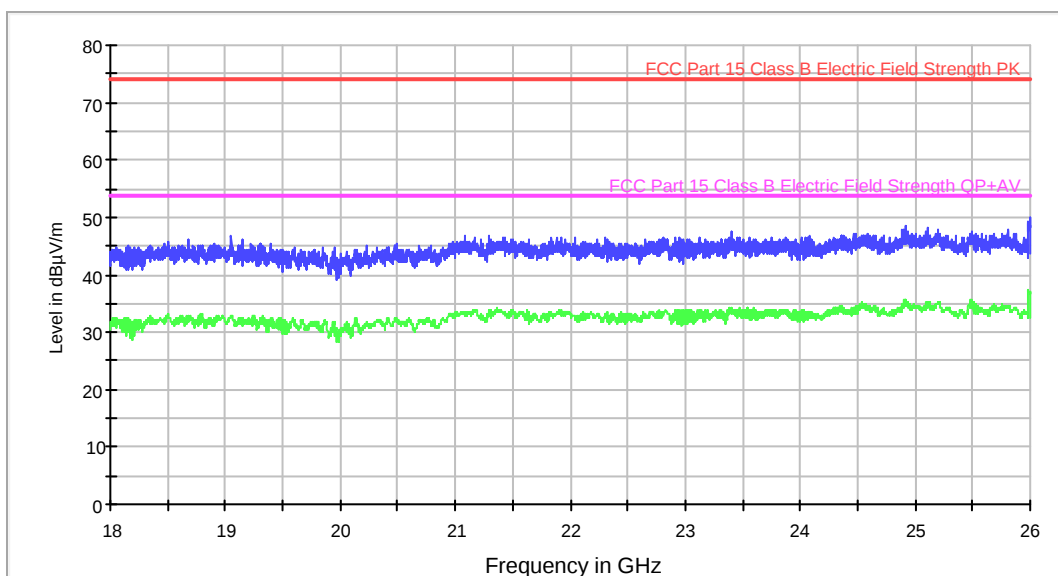
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
18674.000000	46.1	32.2
18682.000000	45.8	32.8
19484.000000	46.0	32.4
20470.000000	45.4	31.9
21199.000000	46.9	32.9
22182.000000	46.9	33.6
22974.000000	47.7	33.5
23383.000000	46.9	33.7
24533.000000	48.4	34.7
25994.000000	49.3	36.8

Radiated Emission. CR0101HR2_PV

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac. Vertical Pol.

FCC 18-26GHz class B



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

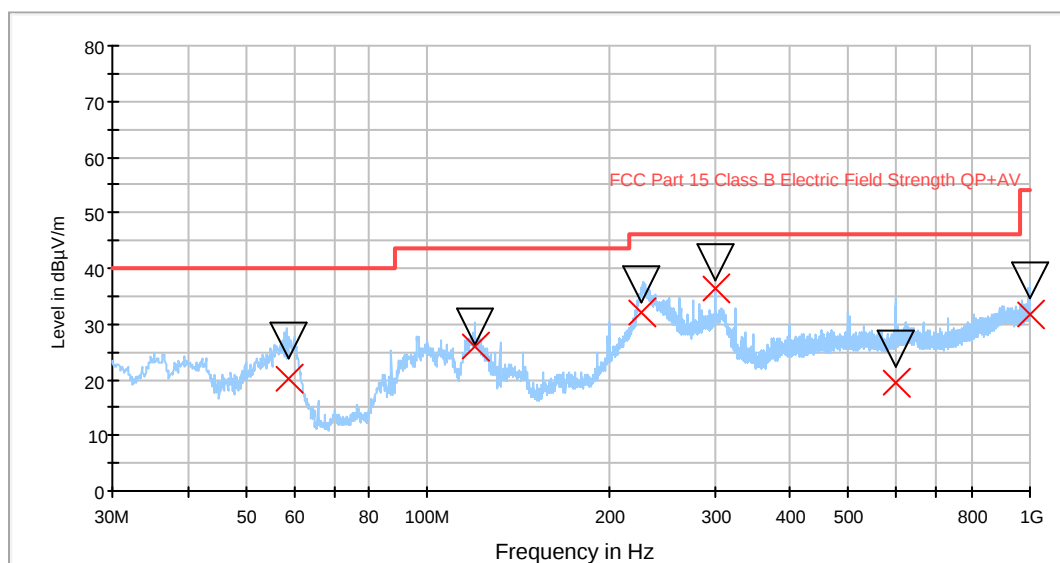
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Average-ClearWrite (dBμV/m)
18507.000000	45.9	33.0
19054.000000	47.0	33.0
19389.000000	45.3	32.1
20500.000000	45.3	32.0
21294.000000	46.7	33.6
21917.000000	46.6	33.6
22814.000000	46.4	33.4
23402.000000	47.7	34.2
24925.000000	48.5	35.7
25994.000000	50.0	36.9

Radiated Emission. CR0202LR

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data via USB port. Power Supply 5 Vdc (USB port).

FCC class B



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

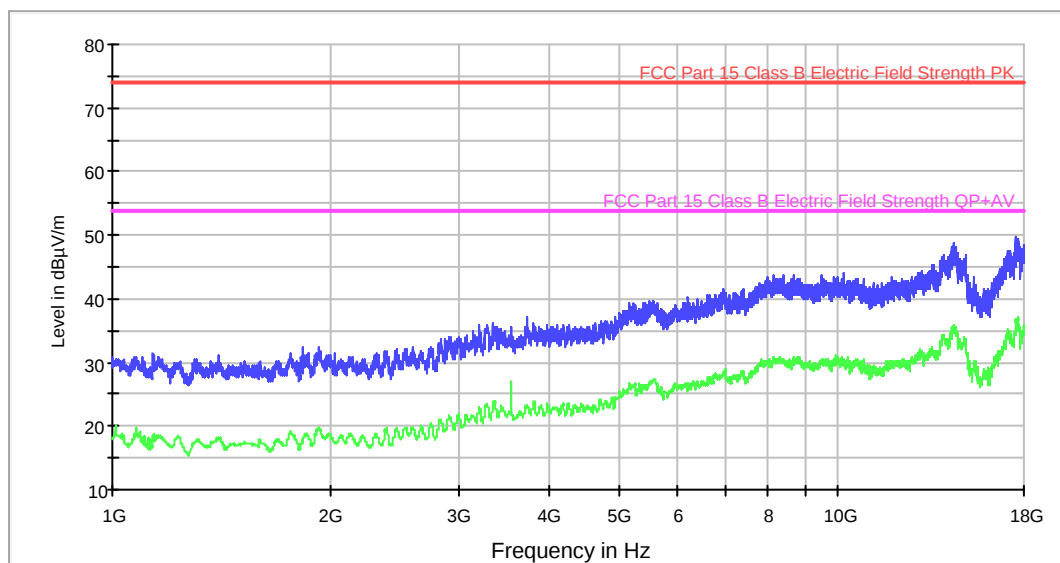
Maximizations

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)
58.801603	27.0	20.1	345.0	H	2.0
119.976954	29.4	26.1	100.0	V	99.0
227.234669	37.1	32.1	144.0	H	276.0
300.009018	41.2	36.4	100.0	H	314.0
598.104609	25.7	19.3	158.0	H	220.0
999.755511	37.9	31.6	104.0	V	218.0

Radiated Emission. CR0202HR1_PH

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data via USB port. Power Supply 5 Vdc (USB port). Horizontal Pol.

FCC 1-18GHz class B



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

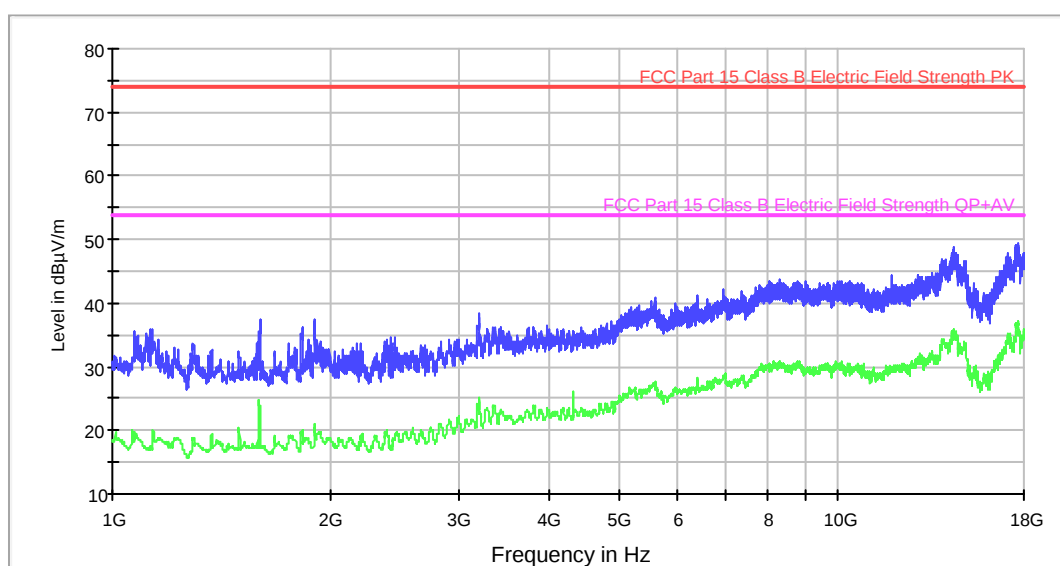
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1138.000000	31.5	18.3
1757.000000	31.3	18.9
1828.000000	32.5	18.0
3133.000000	34.8	21.6
3729.000000	37.0	23.3
5575.000000	39.6	27.3
7380.000000	41.5	28.2
8157.000000	43.9	30.7
13449.000000	45.3	32.3
17554.000000	49.7	36.6

Radiated Emission. CR0202HR1_PV

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data via USB port. Power Supply 5 Vdc (USB port). Vertical Pol.

FCC 1-18GHz class B



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

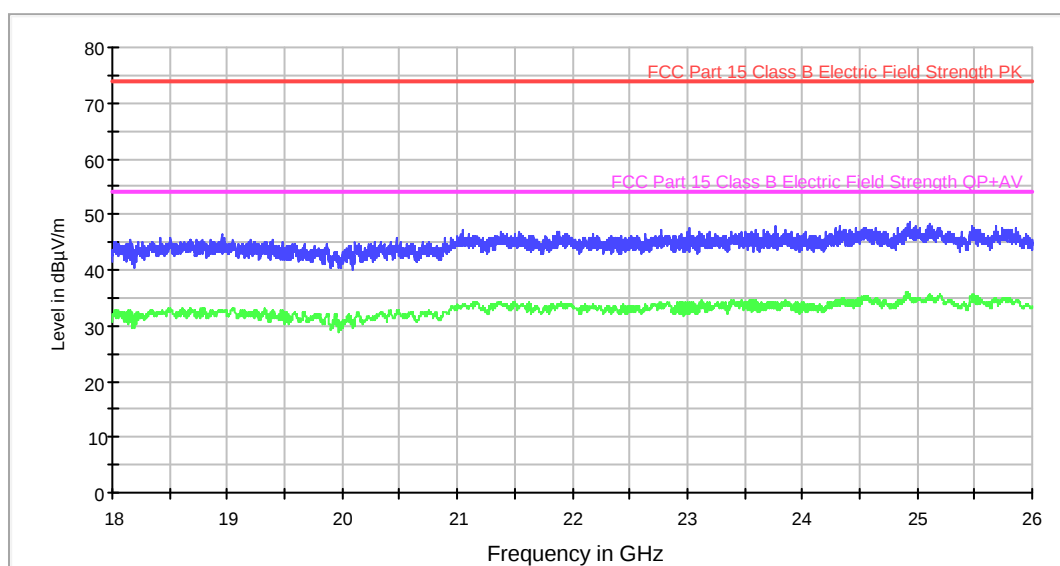
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
1138.000000	35.8	20.1
1598.000000	37.3	18.1
1904.000000	37.4	20.9
2444.000000	34.7	18.8
3193.000000	38.4	25.2
5576.000000	40.8	27.5
6935.000000	42.1	28.7
8275.000000	43.8	30.2
13455.000000	44.7	32.3
17639.000000	49.3	37.0

Radiated Emission. CR0202HR2_PH

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data via USB port. Power Supply 5 Vdc (USB port). Horizontal Pol.

FCC 18-26GHz class B



— MaxPeak Scan
— Average Scan
— FCC Part 15 Class B Electric Field Strength PK
— FCC Part 15 Class B Electric Field Strength QP+AV

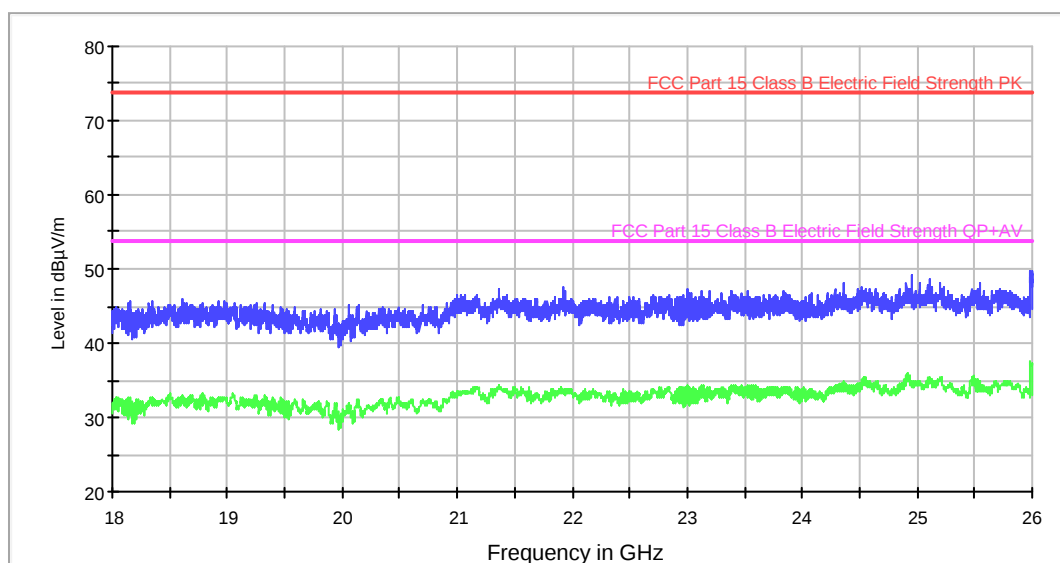
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV/m)	Average-ClearWrite (dBµV/m)
18509.000000	45.6	33.2
18950.000000	46.5	32.7
19388.000000	45.3	32.3
20473.000000	45.9	32.4
21044.000000	47.4	33.5
21883.000000	46.7	33.8
23021.000000	47.5	34.3
23775.000000	47.8	34.2
24941.000000	48.5	35.6
25118.000000	48.2	35.6

Radiated Emission. CR0202HR2_PV

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data via USB port. Power Supply 5 Vdc (USB port). Vertical Pol.

FCC 18-26GHz class B



— Peak Scan
— Average Scan
— 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)
18606.000000	45.8	32.8
18931.000000	45.8	32.5
19400.000000	45.1	32.6
20140.000000	45.2	32.2
21358.000000	47.3	34.1
21918.000000	47.6	33.8
23004.000000	47.4	34.2
23841.000000	47.1	33.3
24958.000000	49.1	34.9
25996.000000	49.8	36.9

CONTINUOUS CONDUCTED EMISSION

LIMITS:	Product standard :	FCC CFR 47, Subpart C (10-1-15 Edition) Secs. 15.207 & ICES-003 Issue 6 (2016)
	Test standard :	FCC CFR 47, Part 15, Subpart C (10-1-15 Edition) Secs. 15.207 & ICES-003 Issue 6 (2016)

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 C (10-1-15 Edition) Secs. 15.207 & ICES-003 Issue 6 (2016), 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	66-56	56-46
0,5 to 5	56	46
5 to 30	60	50

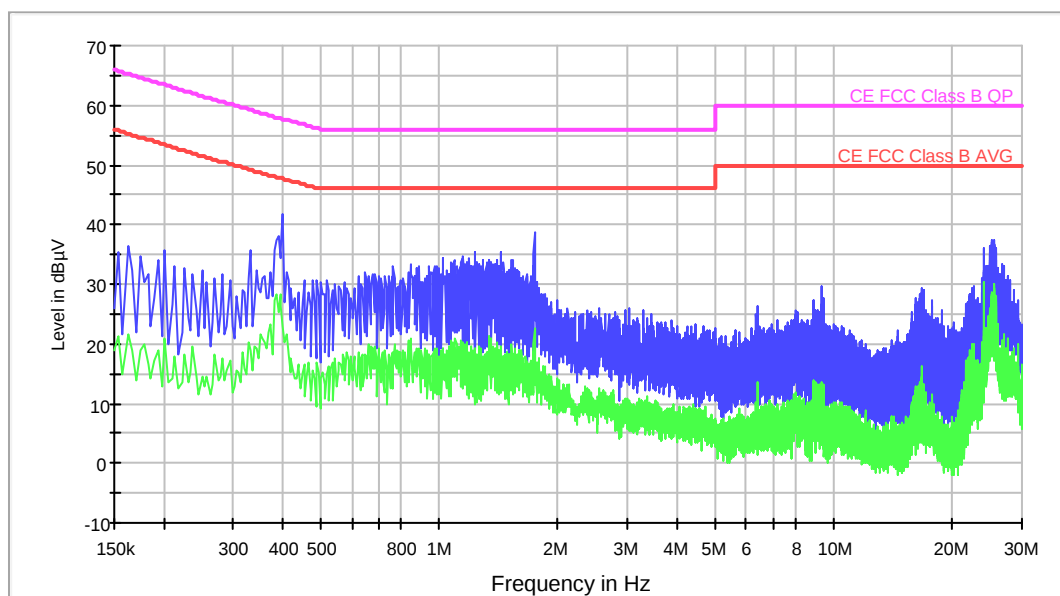
TESTED SAMPLES:	S/01; S/02; S/03 & S/04
TESTED OPERATION MODES:	OM#01 to OM#08
TEST RESULTS:	CCmmnnhh: CC, Conducted Condition; mm: Sample number; nn: Operation mode; hh: wire

CCmmnnhh	Description	Result
CC01010N	Neutral wire noise.	P
CC0101L1	Phase wire noise.	P
CC01040N	Neutral wire noise.	P
CC0104L1	Phase wire noise.	P
CC01060N	Neutral wire noise.	P
CC0106L1	Phase wire noise.	P
CC02020N	Neutral wire noise.	P
CC0202L1	Phase wire noise.	P
CC02030N	Neutral wire noise.	P
CC0203L1	Phase wire noise.	P
CC02050N	Neutral wire noise.	P
CC0205L1	Phase wire noise.	P
CC03070N	Neutral wire noise.	P
CC0307L1	Phase wire noise.	P
CC04080N	Neutral wire noise.	P
CC0408L1	Phase wire noise.	P

Conducted Emission. CC01010N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE.WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE.
ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac.
Neutral wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

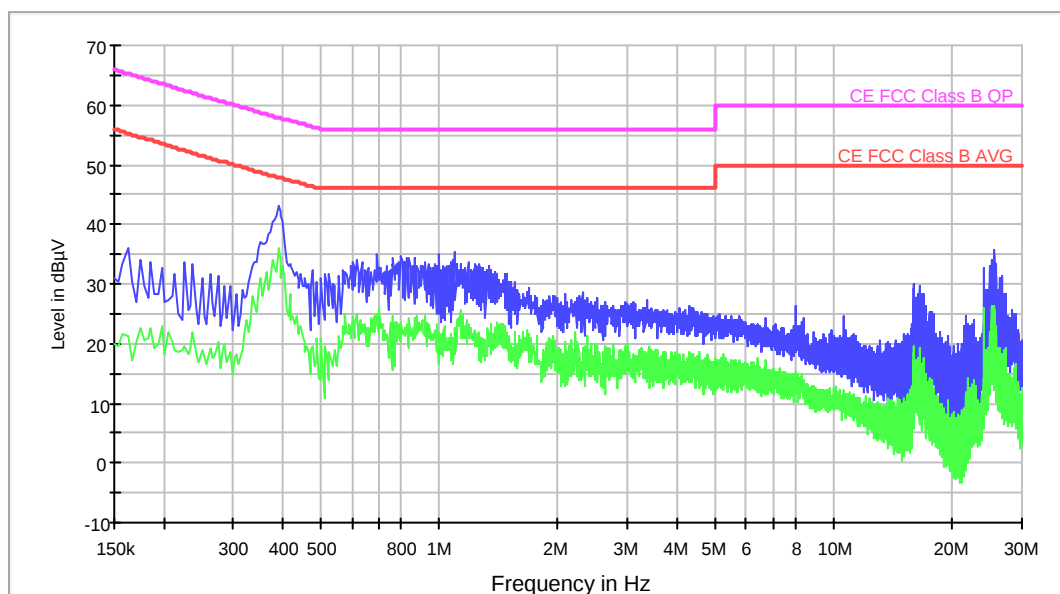
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.162000	36.2	21.6
0.402000	41.7	23.0
0.650000	31.9	18.3
1.234000	35.5	19.4
1.742000	38.6	22.6
2.542000	26.1	12.5
3.894000	24.0	6.9
9.310000	29.8	11.7
16.806000	29.4	12.8
25.038000	37.4	25.5

Conducted Emission. CC0101L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#01
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE.
ZWave IDLE. NFC IDLE. GPS RX mode. Power Supply 115 Vac.
Phase wire noise

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

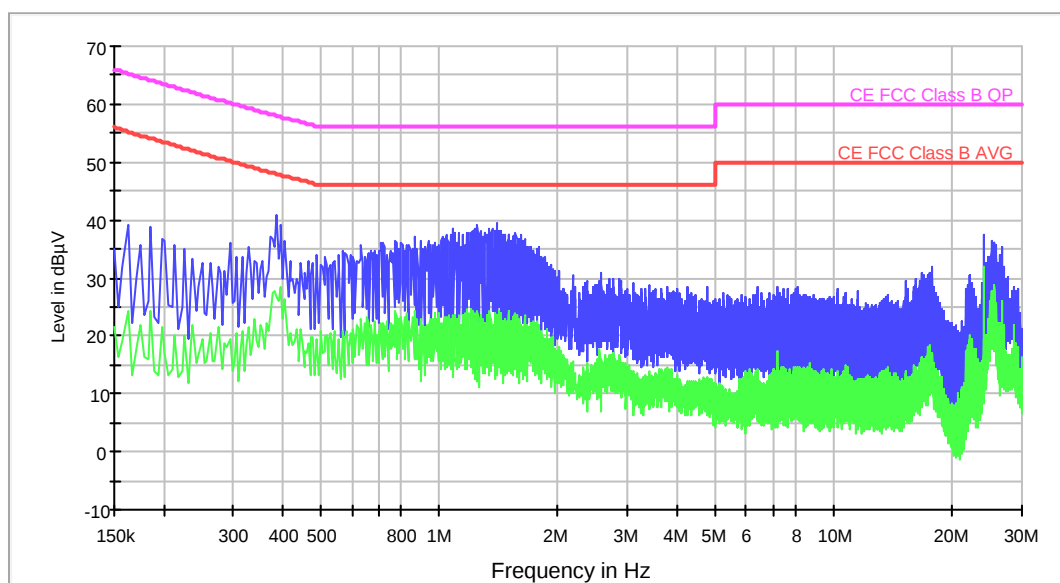
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.162000	36.1	21.4
0.390000	43.1	35.9
0.698000	35.0	24.2
1.090000	35.4	21.5
1.254000	33.3	21.9
2.306000	28.7	15.9
4.294000	26.4	18.6
8.014000	26.2	15.2
15.974000	30.0	18.7
25.450000	35.8	24.0

Conducted Emission. CC01040N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#04
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 2G 1800 TCH. NFC TX mode. GPS receiving signal. ZWave IDLE.Power Supply 115 Vac. Neutral wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

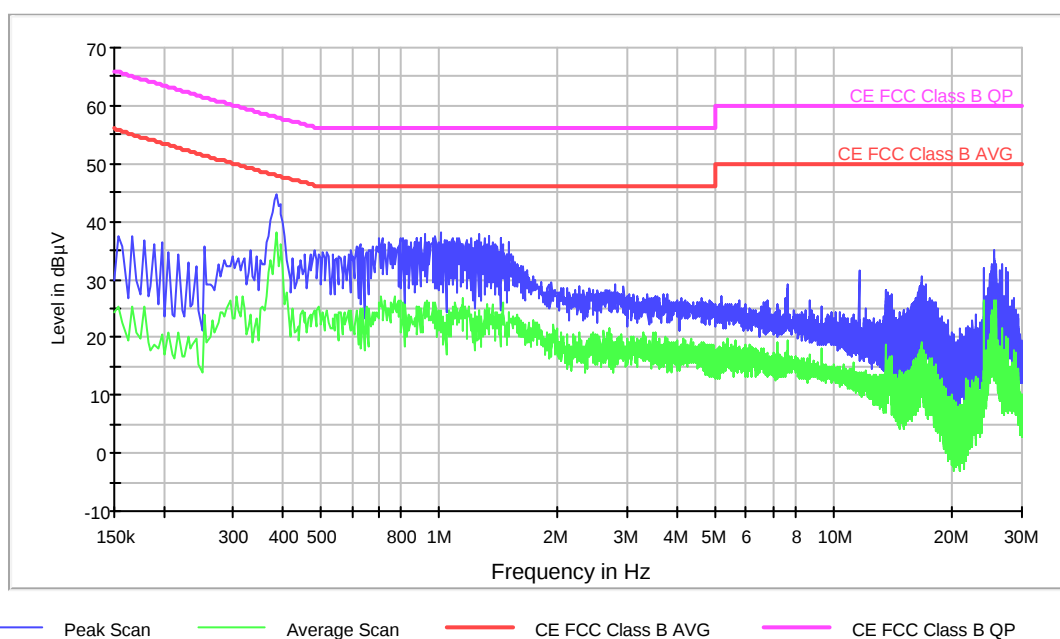
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.162000	39.3	24.4
0.386000	40.8	26.6
0.722000	36.1	22.1
1.226000	38.5	23.8
1.394000	39.7	20.9
2.574000	30.9	15.0
4.254000	28.6	10.0
7.234000	28.5	15.7
17.614000	30.9	12.8
24.002000	37.5	32.0

Conducted Emission. CC0104L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#04
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 2G 1800 TCH. NFC TX mode. GPS receiving signal. ZWave IDLE.Power Supply 115 Vac. Phase wire noise.

EC FCC Class B ESPI CC



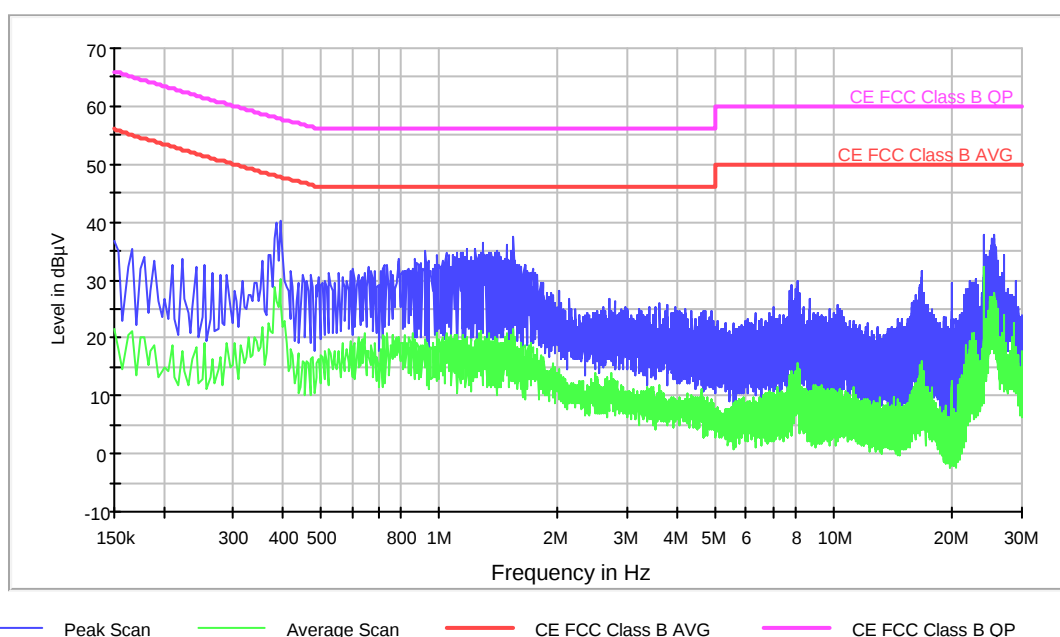
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.166000	37.6	25.3
0.386000	44.8	38.3
0.706000	37.1	26.0
1.006000	38.0	24.7
1.262000	37.6	24.6
2.802000	29.0	19.3
3.710000	27.3	17.3
7.618000	29.0	19.3
11.566000	31.7	13.4
25.498000	34.9	19.9

Conducted Emission. CC01060N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#06
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 3G Band II TCH. NFC TX mode. GPS receiving signal. ZWave IDLE. Power Supply 115 Vac. Neutral wire noise.

EC FCC Class B ESPI CC



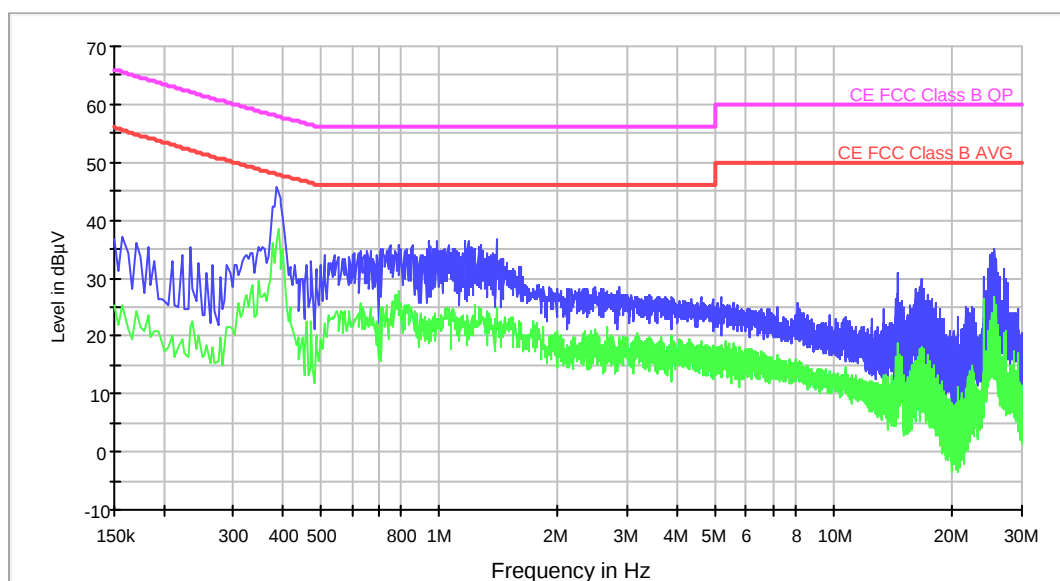
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.150000	36.8	21.7
0.394000	40.2	30.3
0.726000	32.6	20.1
1.178000	35.5	18.5
1.546000	37.6	21.4
2.146000	26.8	11.7
3.630000	26.1	9.4
8.086000	29.7	13.2
16.658000	31.7	13.1
24.002000	37.9	32.4

Conducted Emission. CC0106L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/01
Operation mode: OM#06
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 3G Band II TCH. NFC TX mode. GPS receiving signal. ZWave IDLE. Power Supply 115 Vac. Phase wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

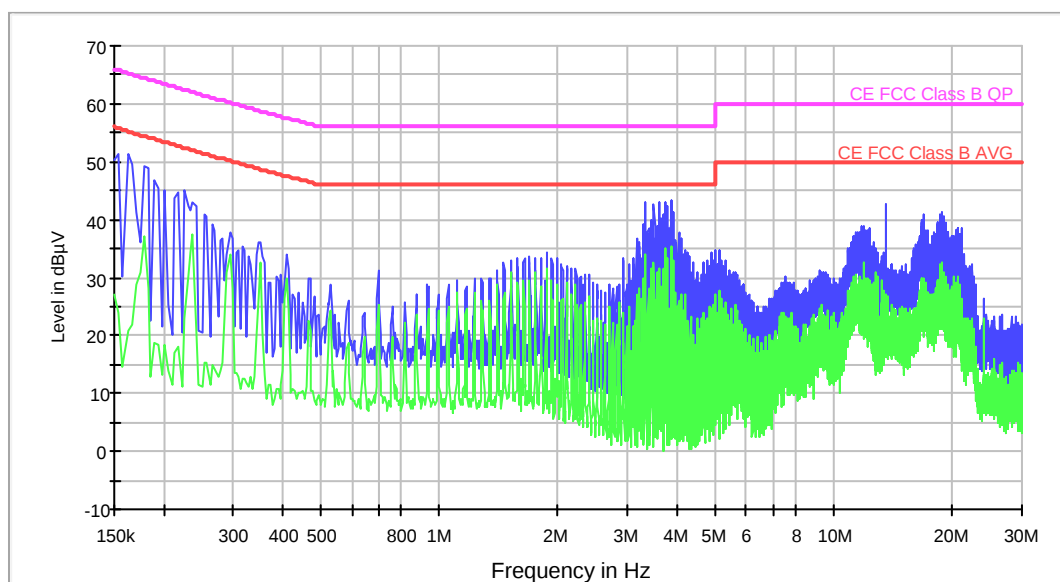
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.158000	37.1	25.5
0.386000	45.7	36.0
0.718000	35.1	24.9
1.162000	36.5	22.2
1.394000	36.6	24.9
2.470000	28.5	21.0
4.594000	26.9	17.0
8.134000	25.6	14.8
14.462000	30.8	18.6
25.414000	35.0	26.1

Conducted Emission. CC02020N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Neutral wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

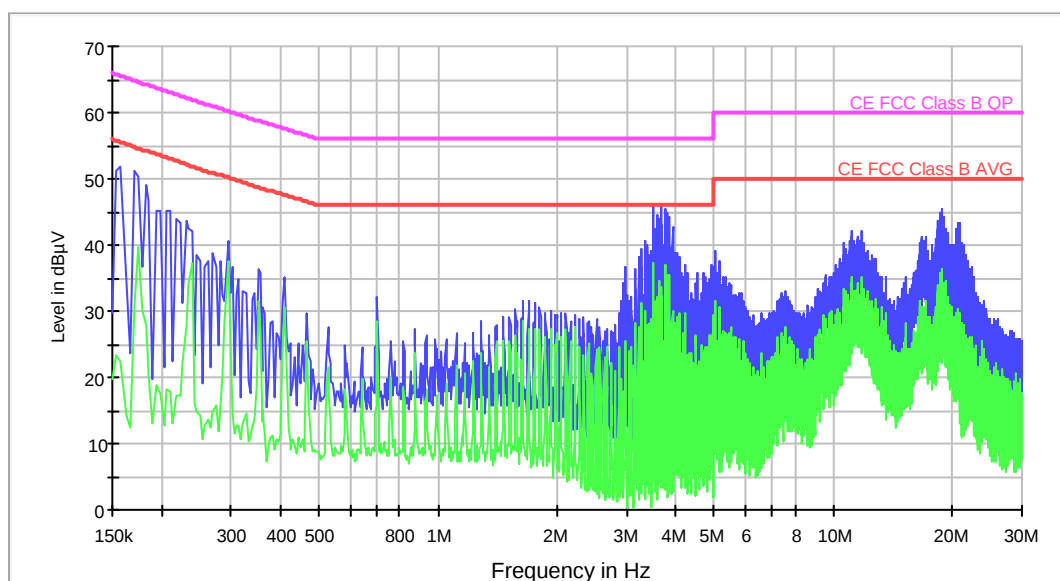
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.154000	51.2	24.0
0.258000	40.6	15.1
0.702000	31.1	25.3
1.226000	29.8	27.5
1.870000	34.2	31.7
3.334000	43.0	33.8
3.862000	43.2	35.5
9.242000	31.1	24.0
13.546000	42.6	20.4
18.830000	41.1	32.7

Conducted Emission. CC0202L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#02
Description: EUT ON. BT IDLE. WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE.
ZWave IDLE. NFC IDLE. GPS RX mode. Transferring Data vía USB
port. Power Supply 5 Vdc (USB port).Phase wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

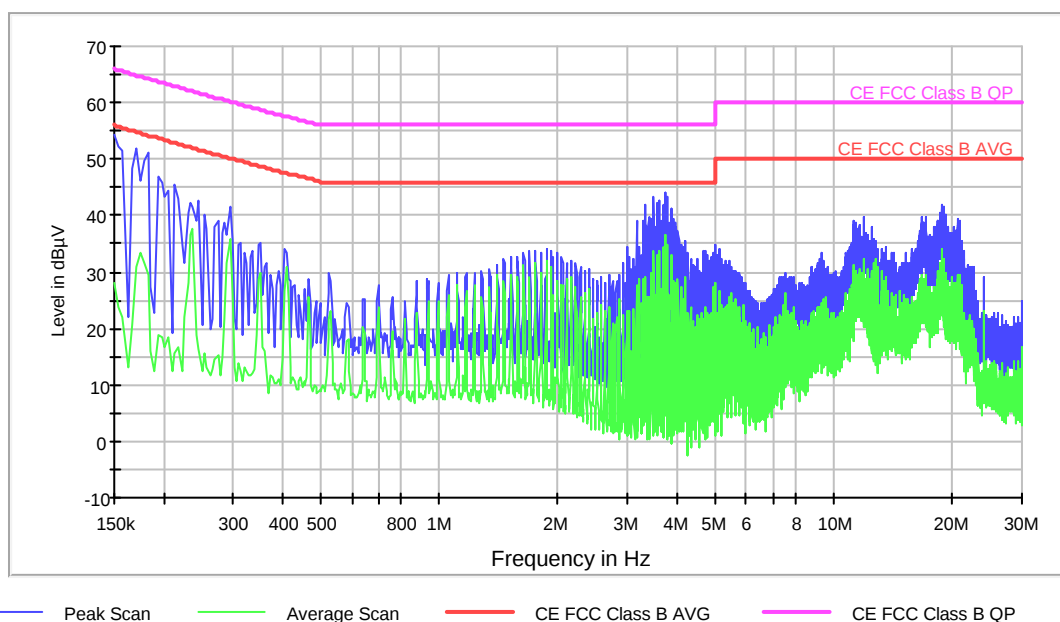
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.158000	52.0	22.5
0.294000	40.6	37.5
0.702000	32.1	28.5
0.874000	27.4	23.7
1.694000	31.6	27.3
3.506000	45.8	37.1
3.686000	45.7	32.6
10.350000	37.7	28.9
11.166000	42.1	35.3
18.710000	45.5	36.3

Conducted Emission. CC02030N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#03
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 2G 1800 TCH. NFC TX mode. GPS receiving signal. ZWave IDLE. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Neutral wire noise.

EC FCC Class B ESPI CC



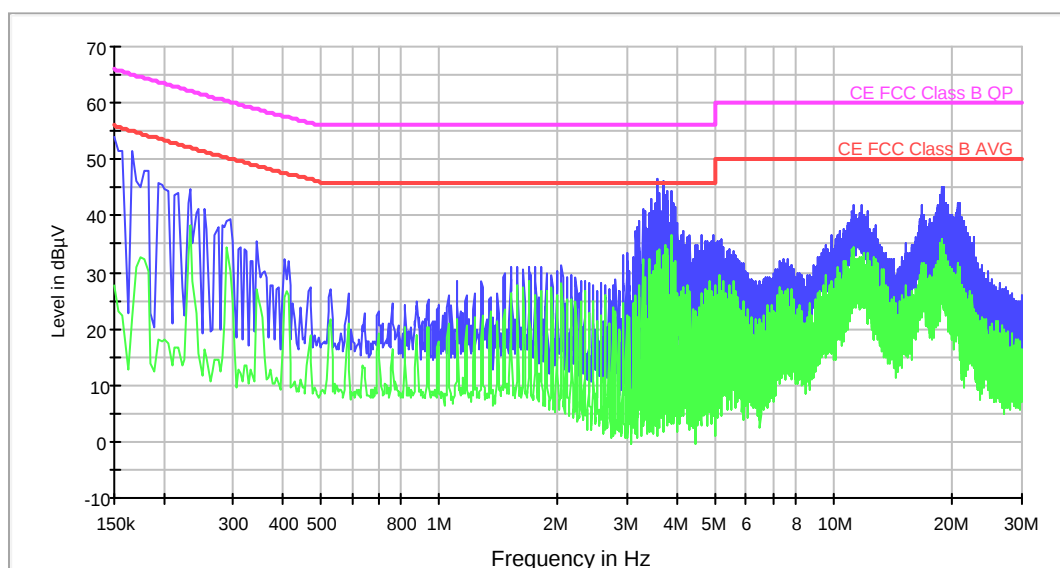
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.150000	54.3	28.2
0.294000	41.4	35.8
0.526000	29.9	21.7
1.110000	30.0	27.5
1.870000	34.1	31.9
3.506000	43.5	33.6
3.742000	43.9	36.6
9.294000	33.4	24.6
17.062000	39.9	28.4
18.826000	42.1	34.2

Conducted Emission. CC0203L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#03
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 2G 1800 TCH. NFC TX mode. GPS receiving signal. ZWave IDLE. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Phase wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

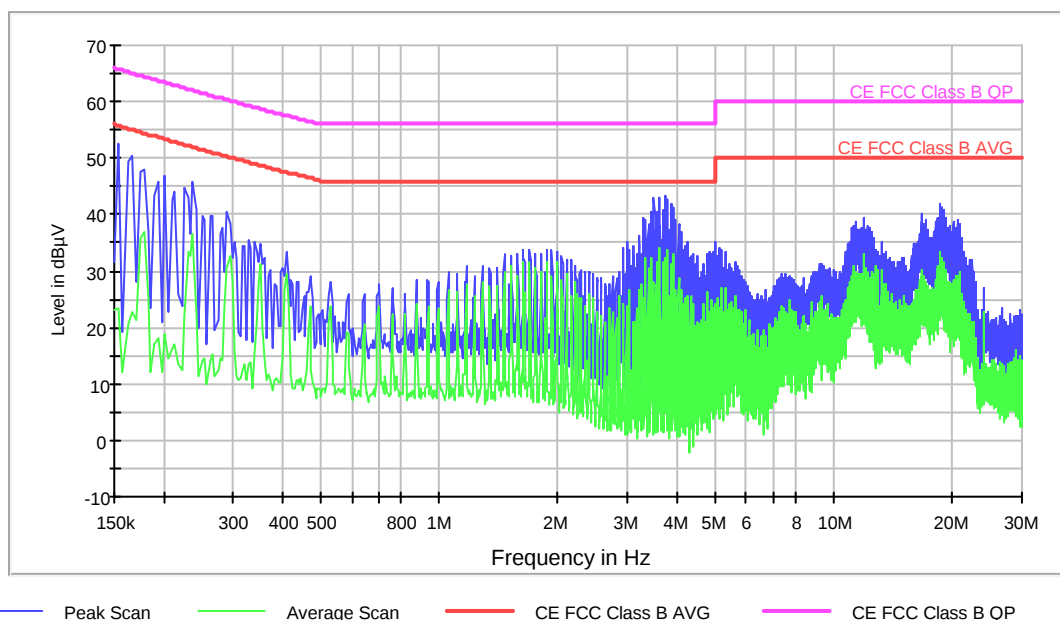
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.150000	53.9	27.7
0.294000	39.4	30.3
0.470000	27.2	18.9
1.110000	28.4	21.6
2.046000	31.1	28.2
3.566000	46.6	33.8
3.682000	46.2	32.9
10.350000	37.4	29.4
11.814000	41.9	32.7
18.918000	45.0	32.9

Conducted Emission. CC02050N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#05
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 3G Band II TCH. NFC TX mode. GPS receiving signal. ZWave IDLE. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Neutral wire noise.

EC FCC Class B ESPI CC



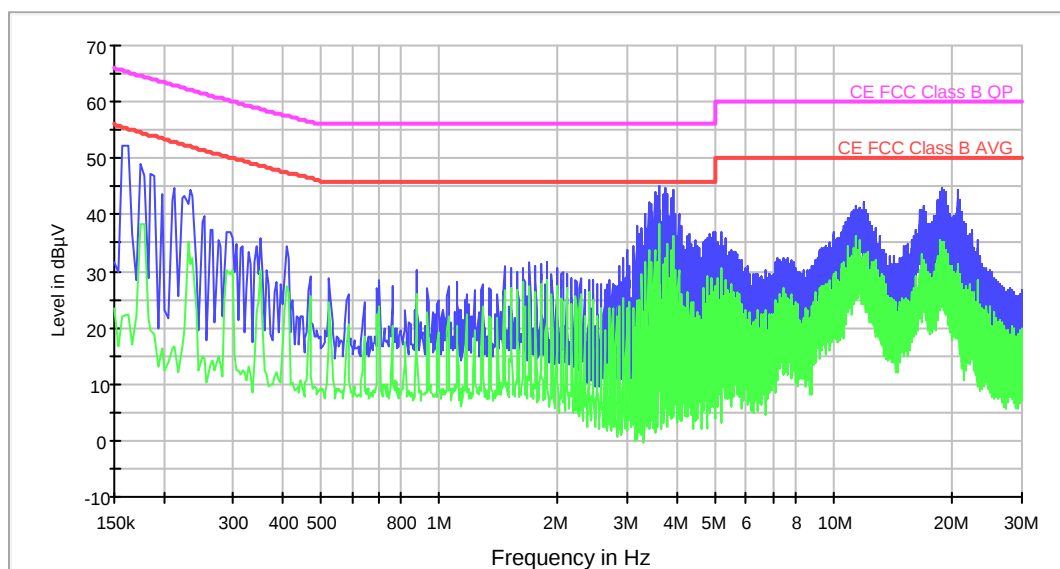
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.154000	52.7	23.4
0.290000	40.4	30.7
0.470000	29.2	23.8
1.170000	30.8	27.6
1.870000	33.9	31.5
3.506000	43.0	28.1
3.742000	43.3	32.2
9.354000	31.1	25.6
16.786000	40.2	30.3
18.594000	41.9	33.2

Conducted Emission. CC0205L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/02
Operation mode: OM#05
Description: EUT ON. BT paired with auxiliary device .WIFI active and connected. 3G Band II TCH. NFC TX mode. GPS receiving signal. ZWave IDLE. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Phase wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

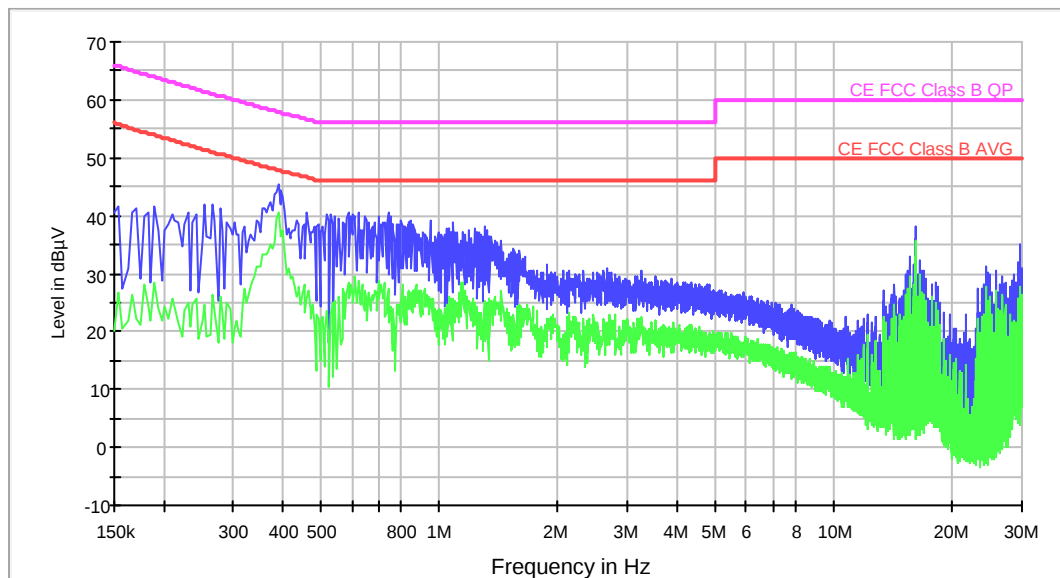
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.158000	52.4	22.0
0.266000	37.3	14.1
0.470000	28.9	25.6
0.878000	30.1	25.8
1.698000	31.6	27.4
3.510000	44.0	33.8
3.626000	45.2	38.3
10.002000	36.8	28.9
11.926000	42.3	30.4
18.718000	44.6	33.9

Conducted Emission. CC03070N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/03
Operation mode: OM#07
Description: EUT ON. BT IDLE.WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. NFC IDLE. GPS RX mode. ZWave TX. Power Supply 115 Vac. Neutral wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

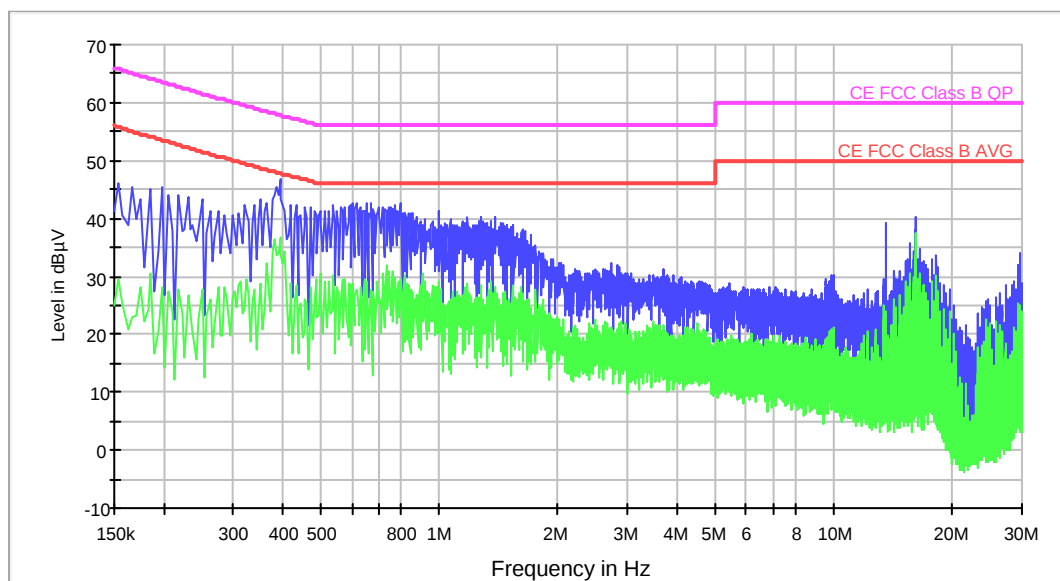
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.254000	42.0	24.6
0.390000	45.4	40.4
0.622000	40.7	28.8
0.742000	40.5	27.3
1.306000	38.0	22.5
2.658000	30.7	21.5
3.874000	29.0	18.9
6.166000	26.0	17.0
16.230000	38.0	35.6
29.818000	35.0	27.8

Conducted Emission. CC0307L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/03
Operation mode: OM#07
Description: EUT ON. BT IDLE.WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. NFC IDLE. GPS RX mode. ZWave TX. Power Supply 115 Vac. Phase wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

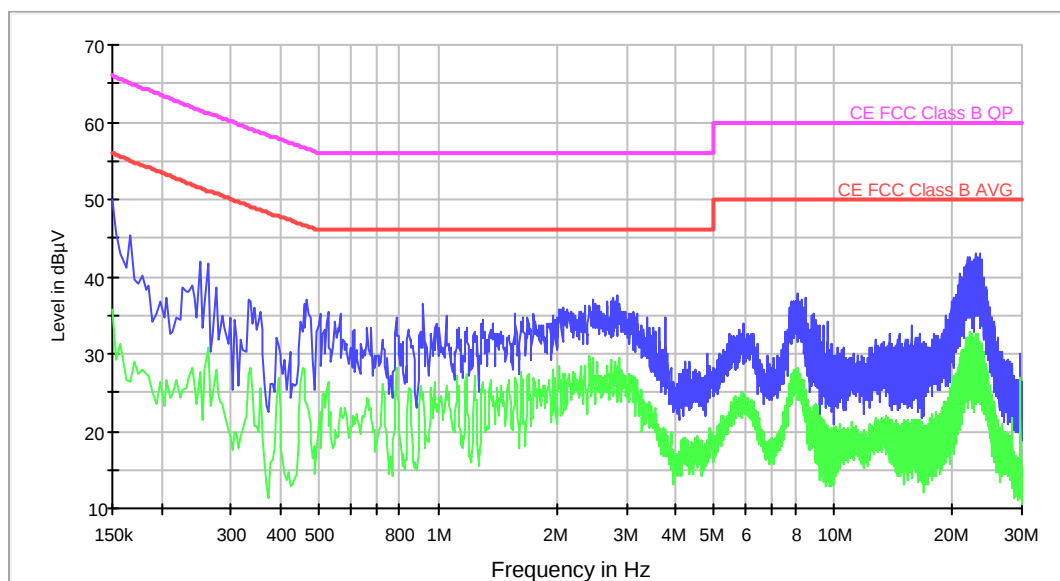
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.154000	46.1	29.5
0.394000	46.7	36.9
0.654000	42.8	26.7
0.798000	42.6	29.6
1.382000	40.2	28.1
2.730000	32.1	21.3
3.682000	31.3	20.6
10.038000	30.2	16.6
16.230000	40.2	37.5
29.818000	33.9	25.0

Conducted Emission. CC04080N

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/04
Operation mode: OM#08
Description: EUT ON. BT IDLE.WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. NFC IDLE. GPS RX mode. ZWave TX. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Neutral wire noise.

EC FCC Class B ESPI CC



— Peak Scan — Average Scan — CE FCC Class B AVG — CE FCC Class B QP

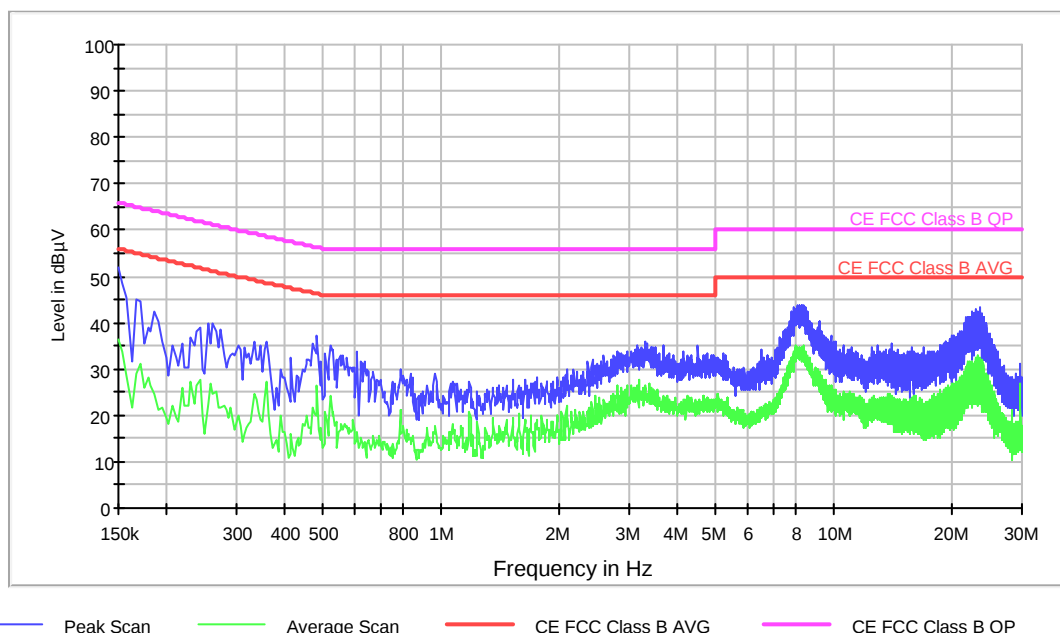
Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.150000	50.1	35.8
0.262000	41.6	30.7
0.466000	37.0	23.5
0.918000	36.5	25.0
2.078000	35.9	27.5
2.830000	37.4	26.9
3.762000	34.6	19.5
8.094000	37.9	28.3
15.794000	33.7	21.0
22.942000	43.1	28.8

Conducted Emission. CC0408L1

Project: 51670REM.001
Company: FLEXTRONICS
Sample: S/04
Operation mode: OM#08
Description: EUT ON. BT IDLE.WIFI IDLE. 2G 1800 IDLE. 3G Band II IDLE. NFC IDLE. GPS RX mode. ZWave TX. Transferring Data vía USB port. Power Supply 5 Vdc (USB port). Phase wire noise.

EC FCC Class B ESPI CC



Subrange Maxima

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.150000	52.0	36.3
0.262000	40.0	24.8
0.482000	37.2	26.6
0.786000	29.9	21.0
2.082000	29.7	20.1
3.282000	36.1	25.8
4.498000	35.1	22.8
8.274000	43.9	33.9
13.922000	35.5	22.5
23.394000	43.1	29.9