

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 16-1-0181301T09a

According to:

FCC Regulations

Part 15.205
 Part 15.209
 Part 15.247

for

Datalogic S.r.l.

SKORPIO X4
 Type:00ANM4HS0GF0A4

FCC ID: U4GSX4WB







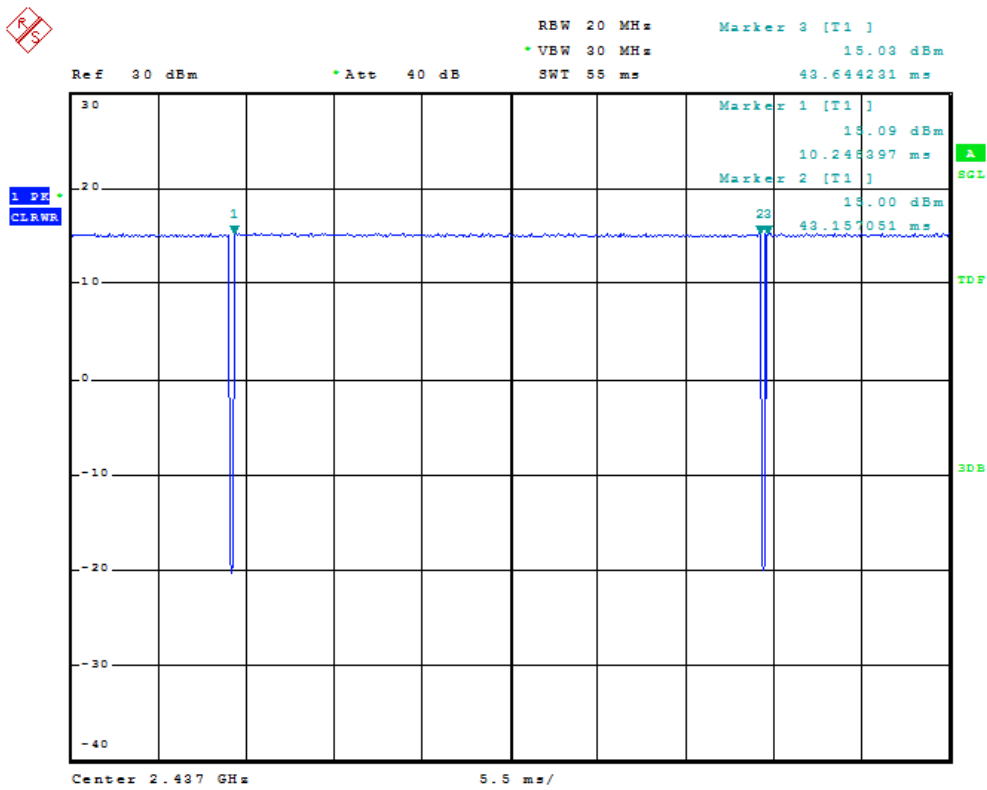
Laboratory Accreditation and Listings			
 DAkks Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FCC FEDERAL COMMUNICATIONS COMMISSION USA MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 ctia Authorized Test Lab Lab Code: 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
<p align="center"> CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com </p>			

TABLE OF CONTENTS:

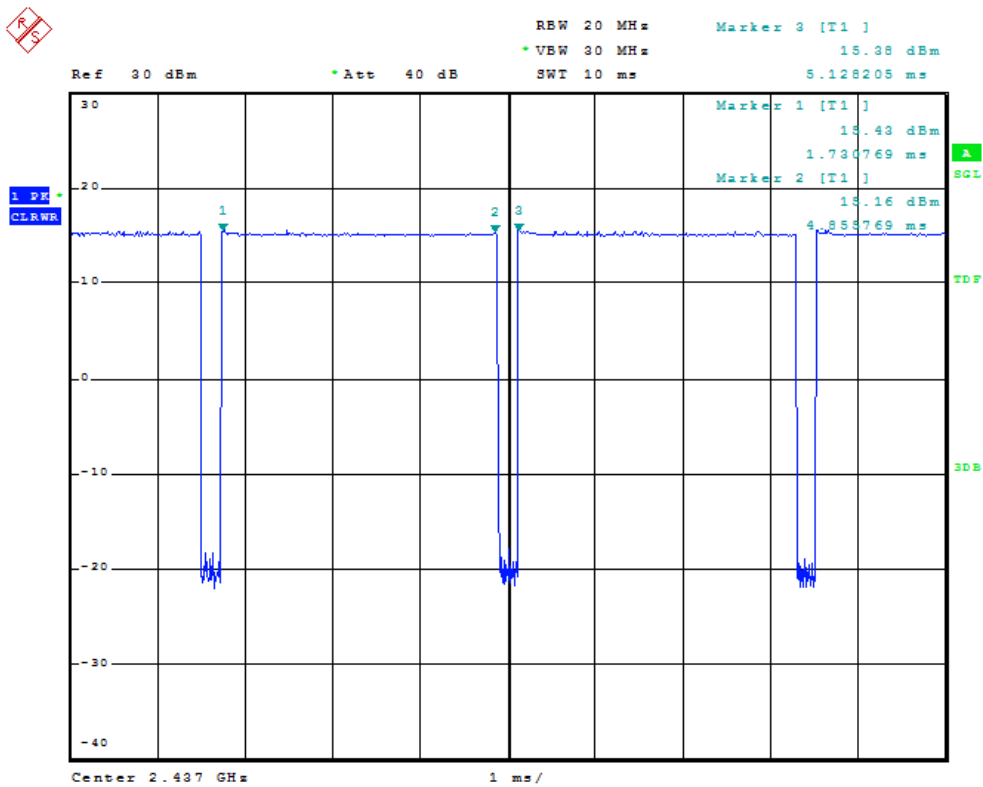
1. CONDUCTED RF-MEASUREMENTS	3
1.1. Duty Cycle Measurements.....	3
1.2. Power Spectral Density Measurements (n MIMO Mode)	8
1.3. 6 dB Bandwidth Measurements (n MIMO Mode).....	11
2. RADIATED FIELD STRENGTH MEASUREMENTS	14
2.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz	14
2.2. Radiated Field Strength Emissions – 30 MHz to 1 GHz	18
2.3. Radiated Field Strength Emissions – 1 GHz to 18 GHz	22
2.4. Radiated Field Strength Emissions – 18 GHz to 25 GHz	30
3. RADIATED BAND-EDGE MEASUREMENTS	34
3.1. b SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge).....	34
3.2. b SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge).....	35
3.3. g SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge).....	36
3.4. g SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge).....	37
3.5. n SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge).....	38
3.6. n SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge).....	39
3.7. n MIMO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge)	40
3.8. n MIMO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge)	41

1. Conducted RF-Measurements

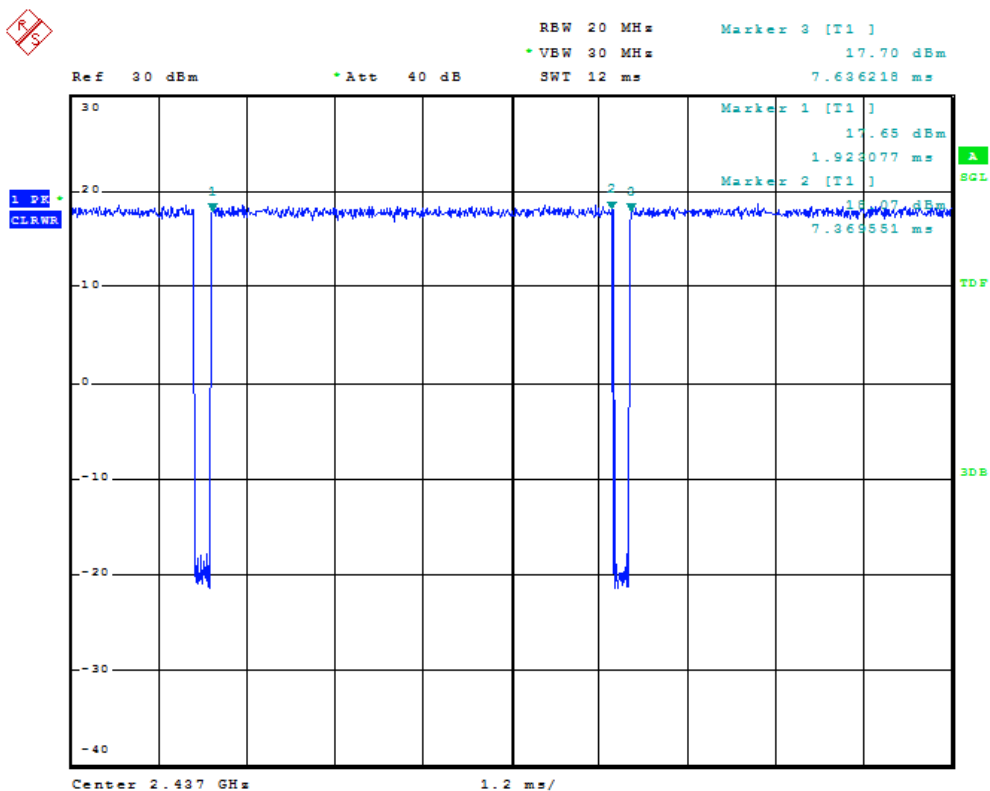
1.1. Duty Cycle Measurements



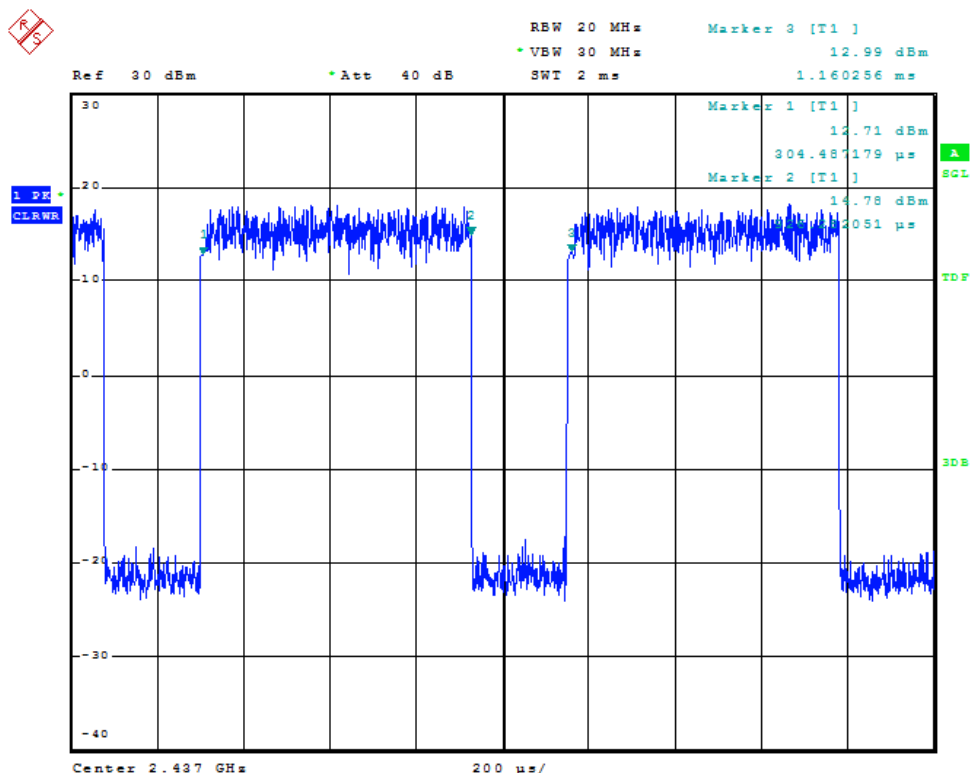
Plot 1: Duty Cycle-WLAN 2.4 GHz-b Mode (SISO) | 20 MHz | 1 Mbit | Ch 6 (2437 MHz)



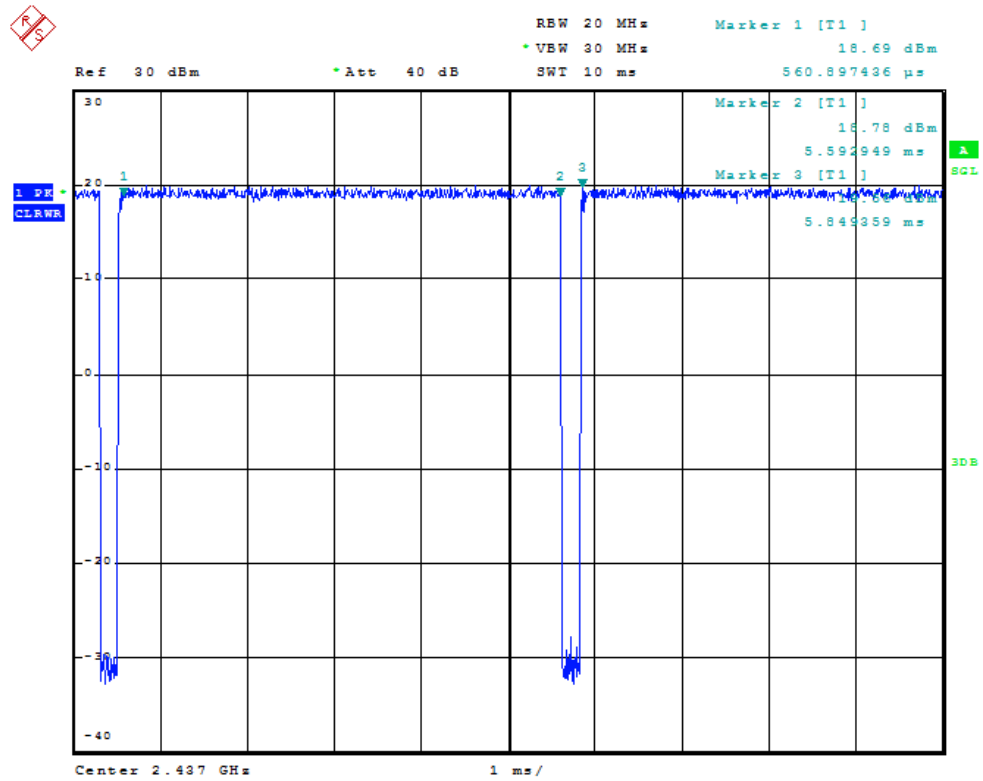
Plot 2: Duty Cycle-WLAN 2.4 GHz-b Mode (SISO) | 20 MHz | 11 Mbit | Ch 6 (2437 MHz)



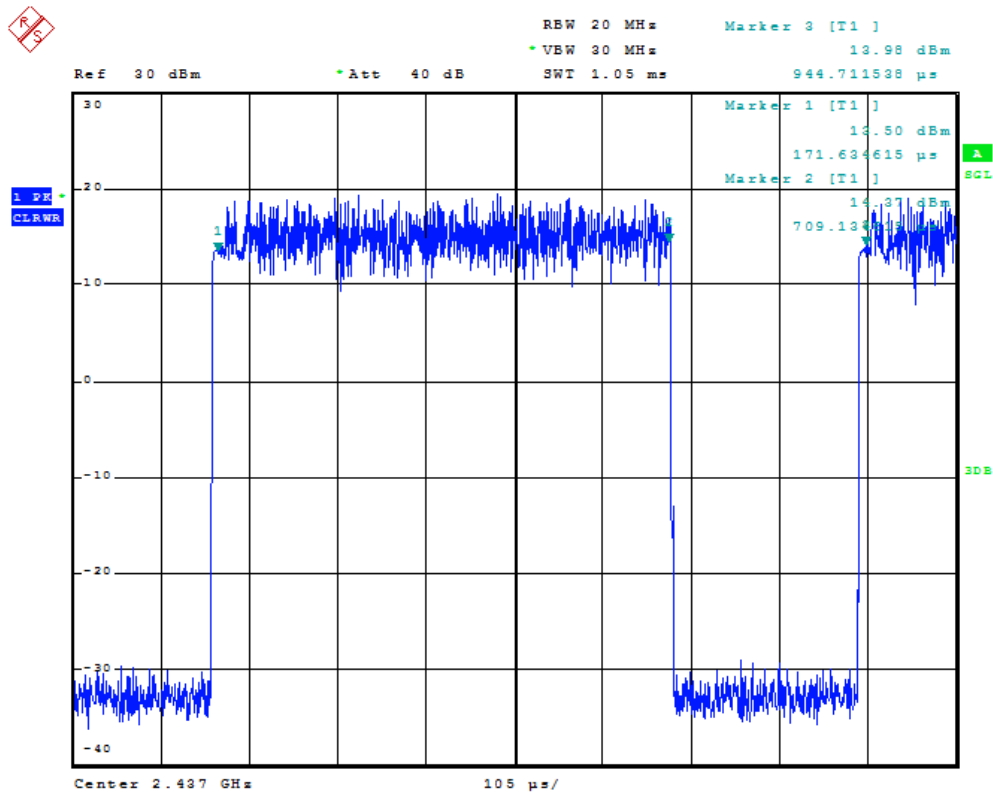
Plot 3: Duty Cycle-WLAN 2.4 GHz-g Mode (SISO) | 20 MHz | 6 Mbit | Ch 6 (2437 MHz)



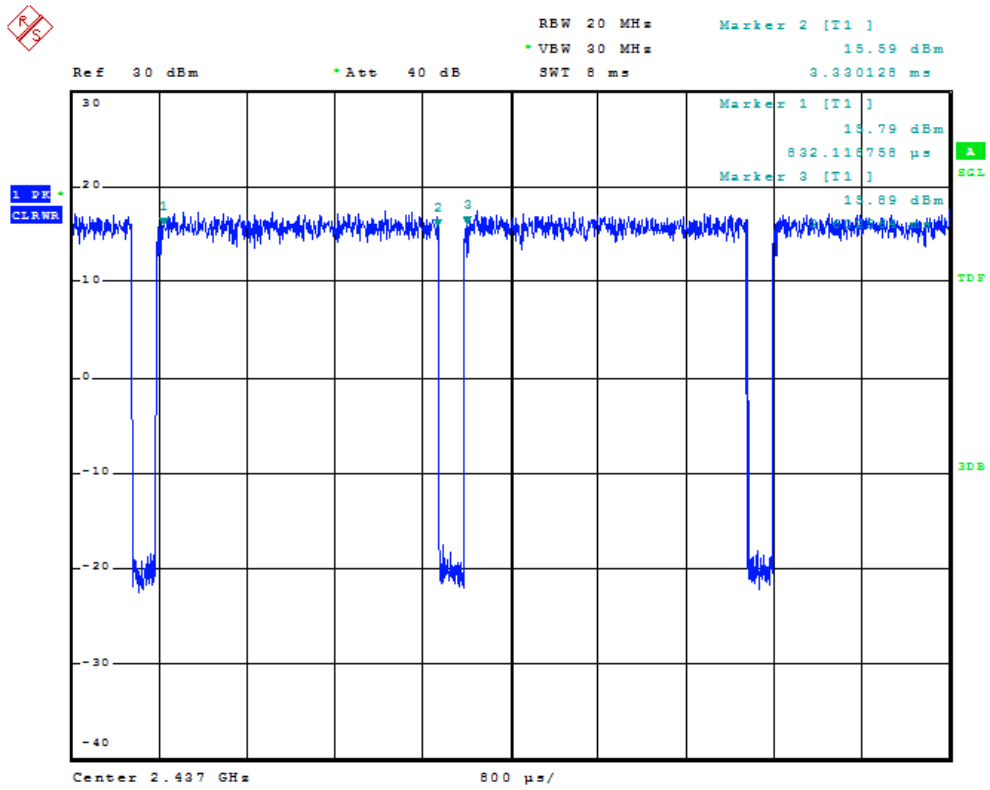
Plot 4: Duty Cycle-WLAN 2.4 GHz-g Mode (SISO) | 20 MHz | 54 Mbit | Ch 6 (2437 MHz)



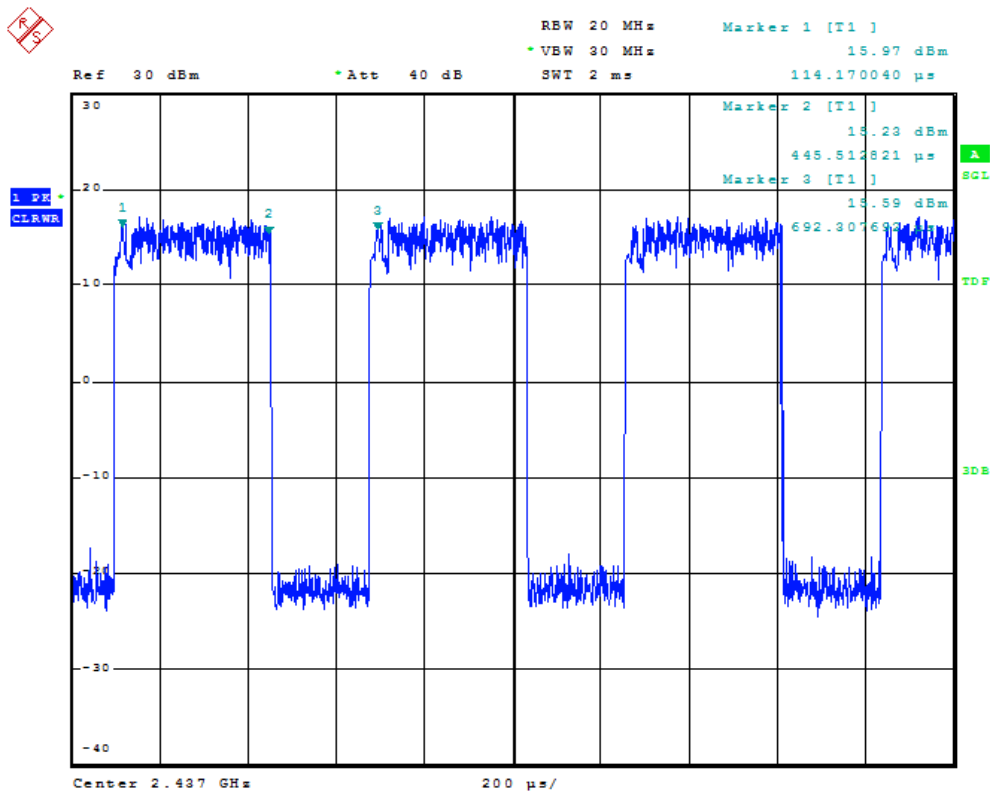
Plot 5: Duty Cycle-WLAN 2.4 GHz-n Mode (SISO) | 20 MHz | MCS0 | Ch 6 (2437 MHz)



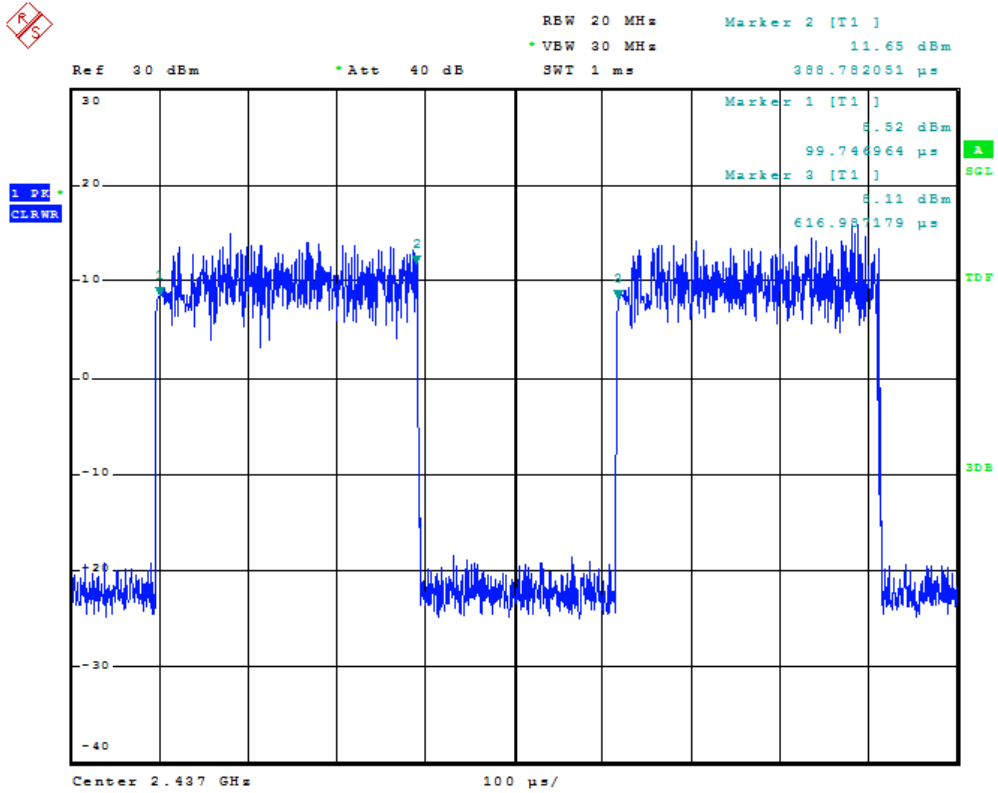
Plot 6: Duty Cycle-WLAN 2.4 GHz-n Mode (SISO) | 20 MHz | MCS7 | Ch 6 (2437 MHz)



Plot 7: Duty Cycle-WLAN 2.4 GHz-n Mode (MIMO) | 20 MHz | MCS8 | Ch 6 (2437 MHz)



Plot 8: Duty Cycle-WLAN 2.4 GHz-n Mode (MIMO) | 20 MHz | MCS13 | Ch 6 (2437 MHz)



1.2. Power Spectral Density Measurements (n MIMO Mode)

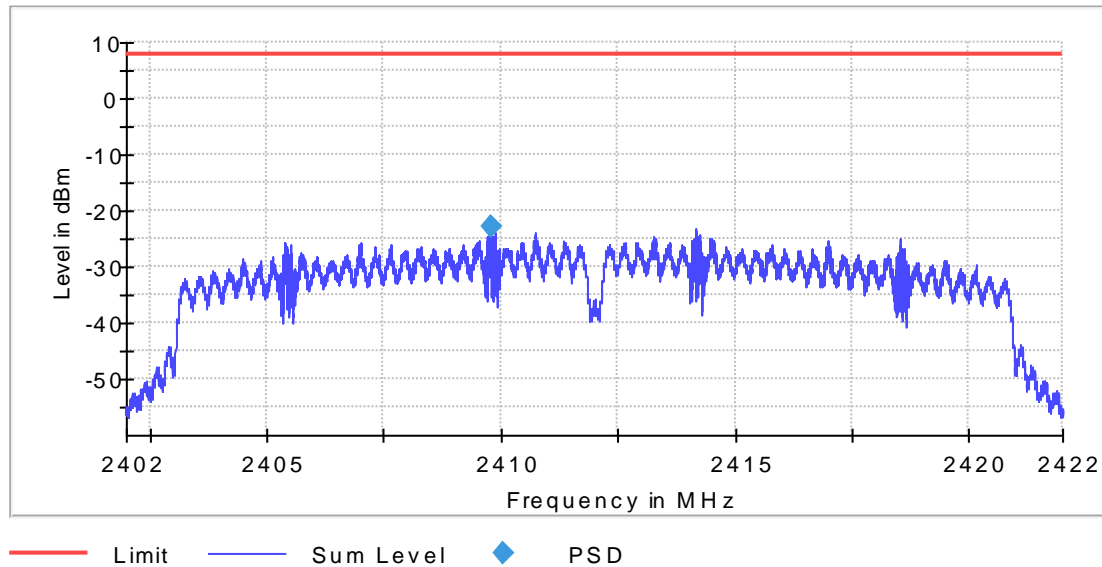
1.2.1. n-Mode MIMO|20 MHz| MCS13| Lowest Channel 1 (2412 MHz)

Power Spectral Density (2412 MHz; 20,000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2409.795489	-22.717	8.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.42200 GHz	2.42200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
Sweptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off

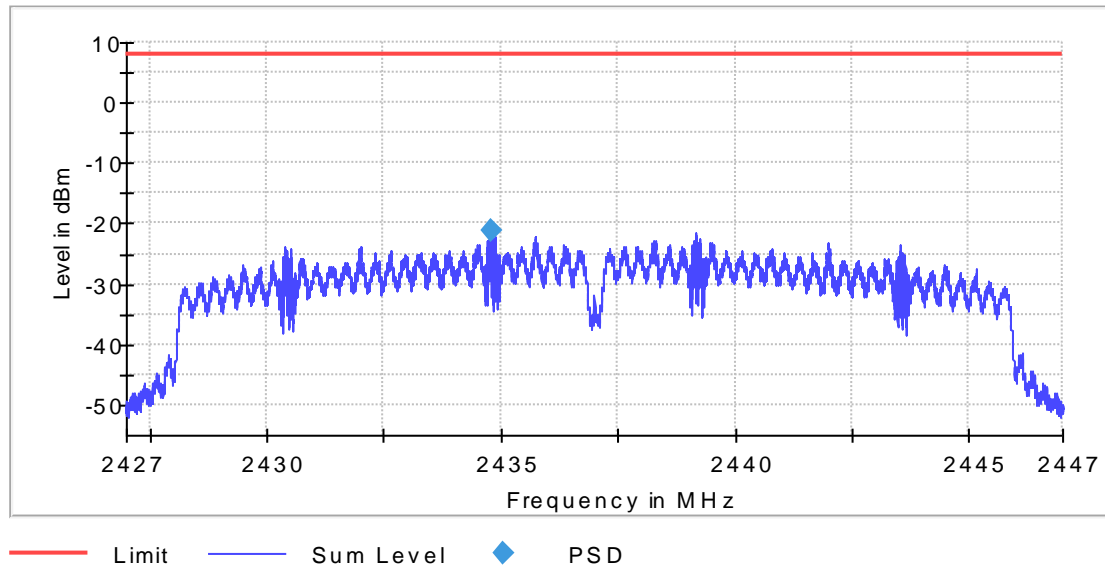
1.2.2. n-Mode MIMO|20 MHz| MCS13| Middle Channel 6 (2437 MHz)

Power Spectral Density (2437 MHz; 20,000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2434.795489	-21.075	8.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz
Stop Frequency	2.44700 GHz	2.44700 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
Sweeptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off

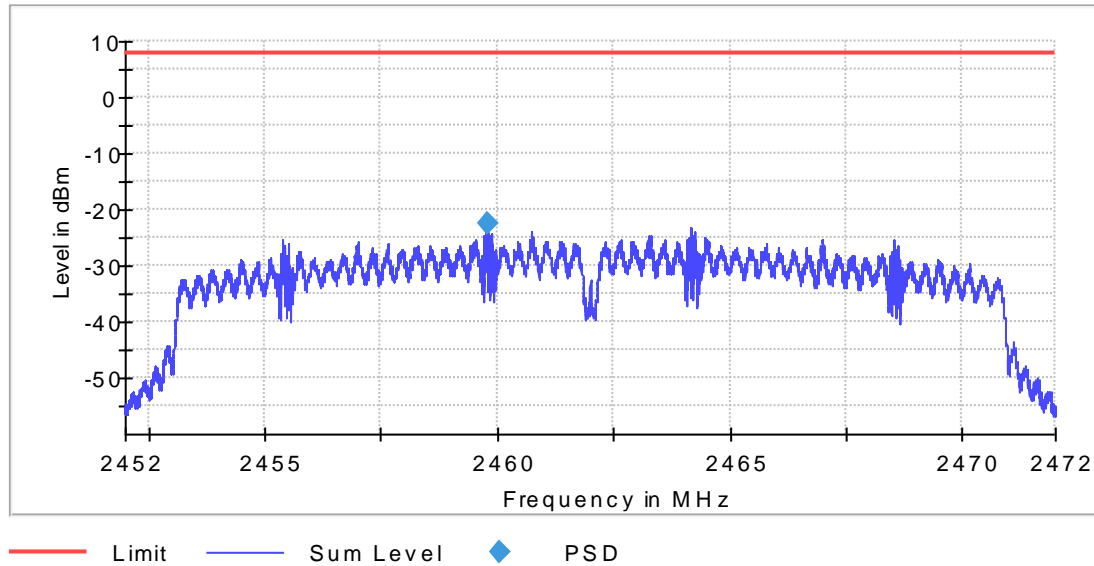
1.2.3. n-Mode MIMO|20 MHz| MCS13| Highest Channel 11 (2462 MHz)

Power Spectral Density (2462 MHz; 20,000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2459.795489	-22.393	8.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz
Stop Frequency	2.47200 GHz	2.47200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
SweepTime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off

1.3. 6 dB Bandwidth Measurements (n MIMO Mode)

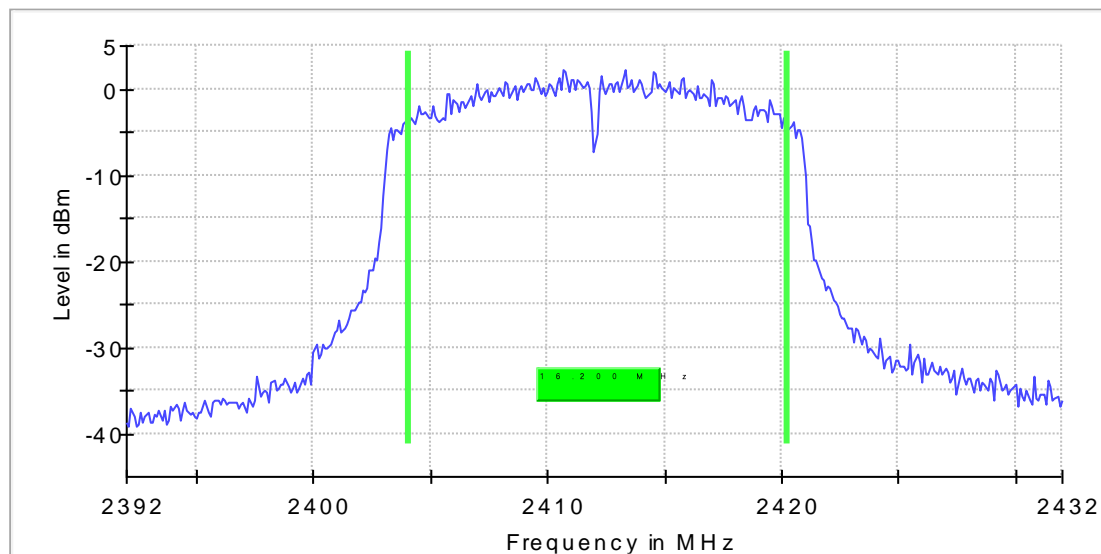
1.3.1. n-Mode MIMO|20 MHz| MCS13| Lowest Channel 1 (2412 MHz)

Minimum Emission Bandwidth 6 dB (2412 MHz; 20,000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2412.000000	16.200000	0.500000	---	2404.100000	2420.300000	2.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweeptime	15.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	97 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.21 dB	0.50 dB

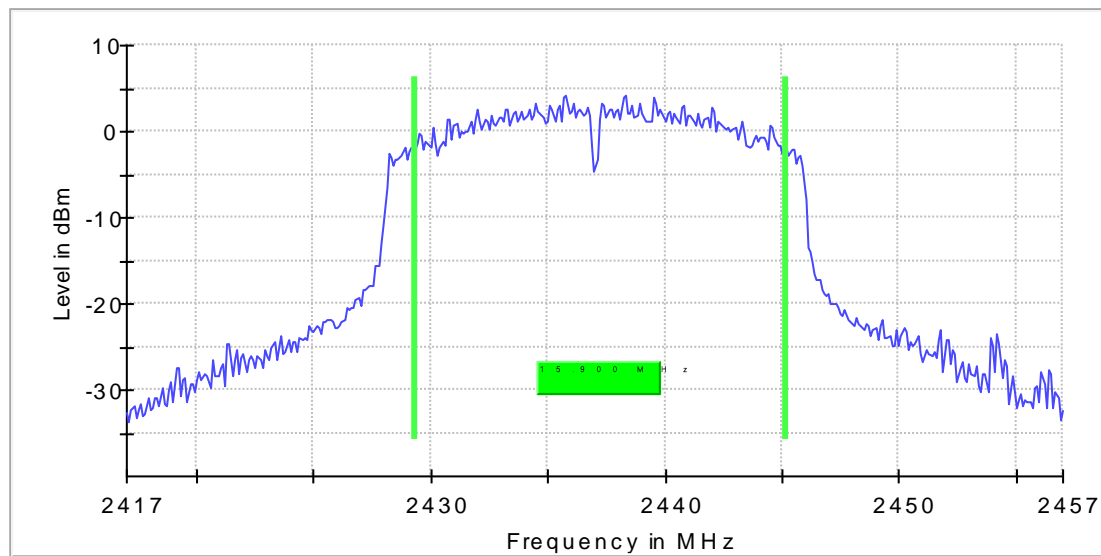
1.3.2. n-Mode MIMO|20 MHz| MCS13| Middle Channel 6 (2437 MHz)

Minimum Emission Bandwidth 6 dB (2437 MHz; 20,000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2437.000000	15.900000	0.500000	---	2429.300000	2445.200000	4.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweeptime	15.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	79 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.00 dB	0.50 dB

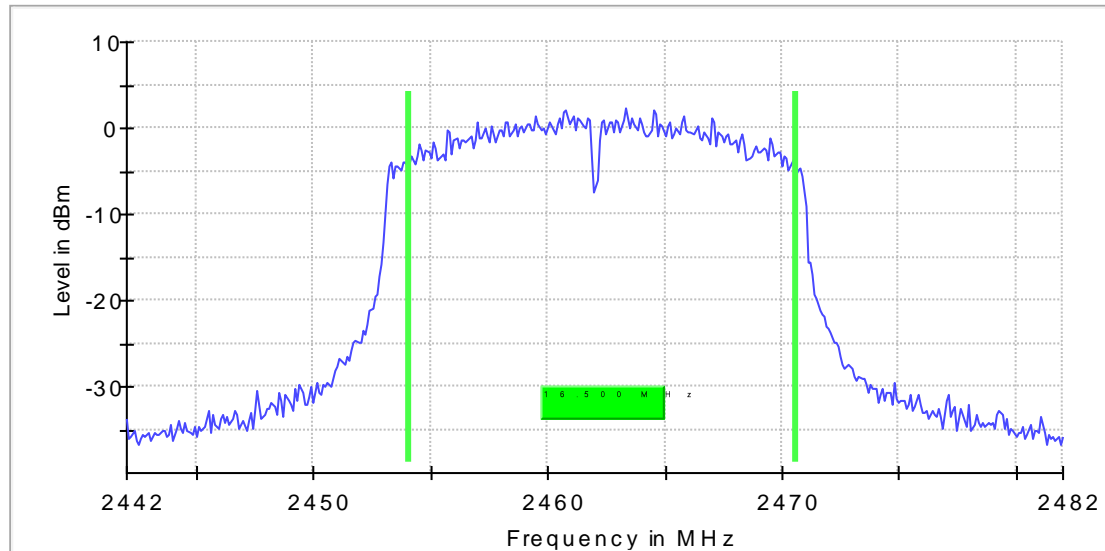
1.3.3. n-Mode MIMO|20 MHz| MCS13| Highest Channel 11 (2462 MHz)

Minimum Emission Bandwidth 6 dB (2462 MHz; 20,000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
2462.000000	16.500000	0.500000	---	2454.100000	2470.600000	2.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	85 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.27 dB	0.50 dB

2. Radiated Field Strength Measurements

2.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz

Diagram No. 2.01_SKORPIO X4-WLAN2.4 GHz-TX-bMode-SISO-BW20MHz-11Mbit-Ch11-20dBm

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209
Operator:	RIs
Operating conditions:	b Mode-SISO-B.W. 20 MHz-11Mbit-Ch 11 (2462 MHz)- PWR+20dBm
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

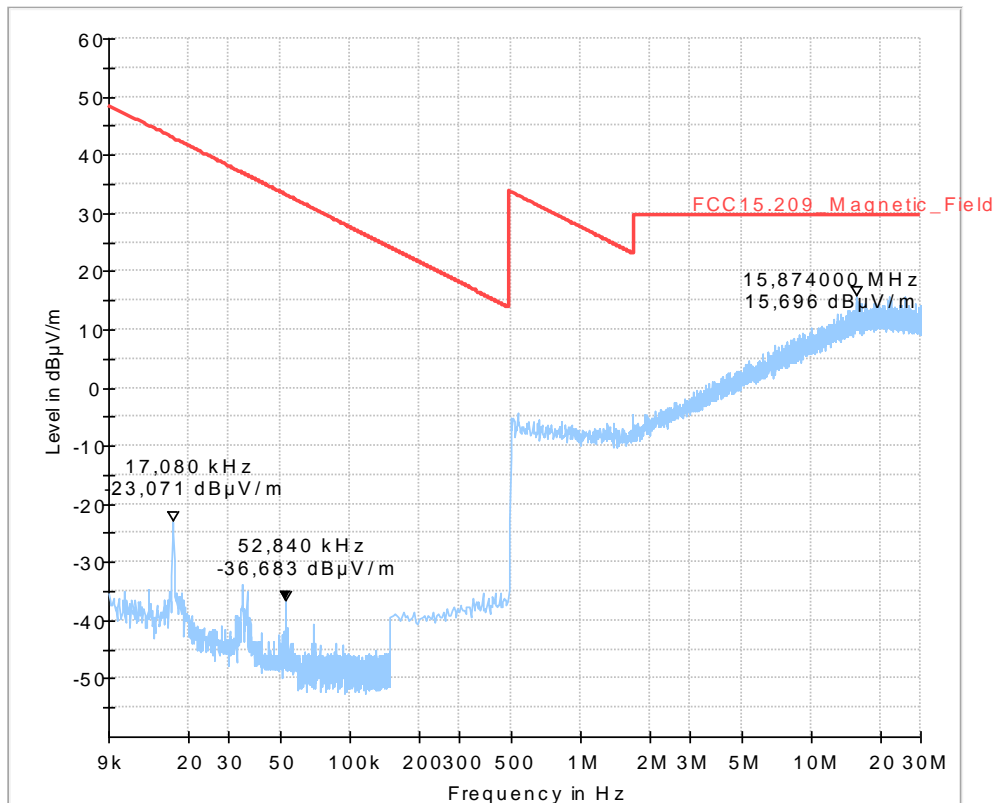


Diagram No. 2.02_SKORPIO X4-WLAN2.4 GHz-TX-gMode-SISO-BW20MHz-6Mbit-Ch6-20dBm

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209
Operator:	RIs
Operating conditions:	g Mode-SISO-B.W. 20 MHz-6Mbit-Ch 6 (2437 MHz)- PWR+20dBm
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

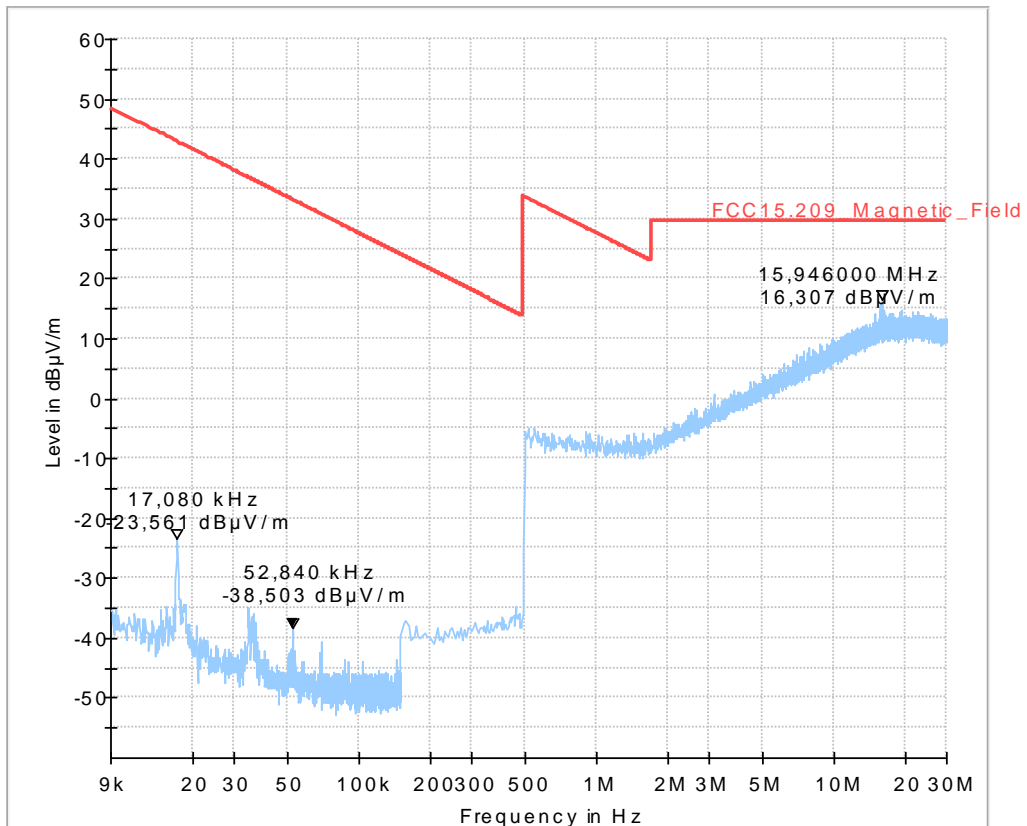


Diagram No. 2.03_SKORPIO X4-WLAN2.4 GHz-TX-nMode-MIMO-BW20MHz-MCS13-Ch1-20dBm

Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209
Operator:	RIs
Operating conditions:	n Mode-MIMO-B.W. 20 MHz-MCS13-Ch 1 (2412 MHz)- PWR+20dBm
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

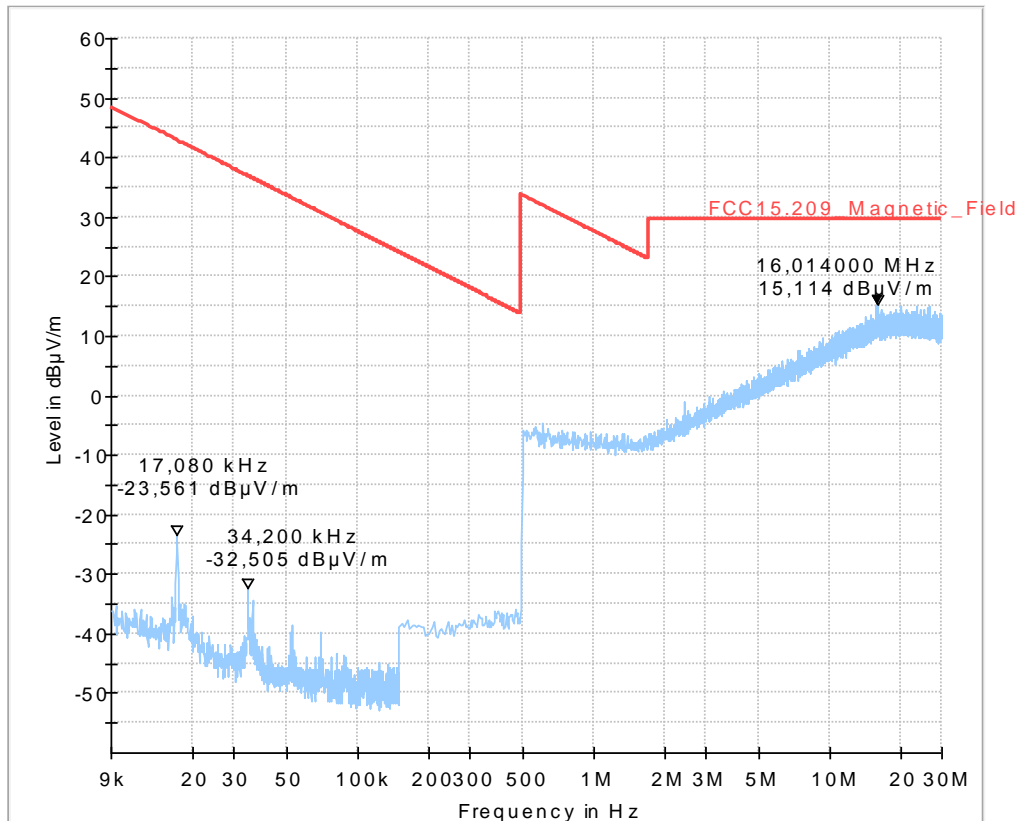


Diagram No. 2.04_SKORPIO X4-WLAN2.4 GHz-TX-nMode-SISO-BW20MHz-MCS0-Ch1-20dBm

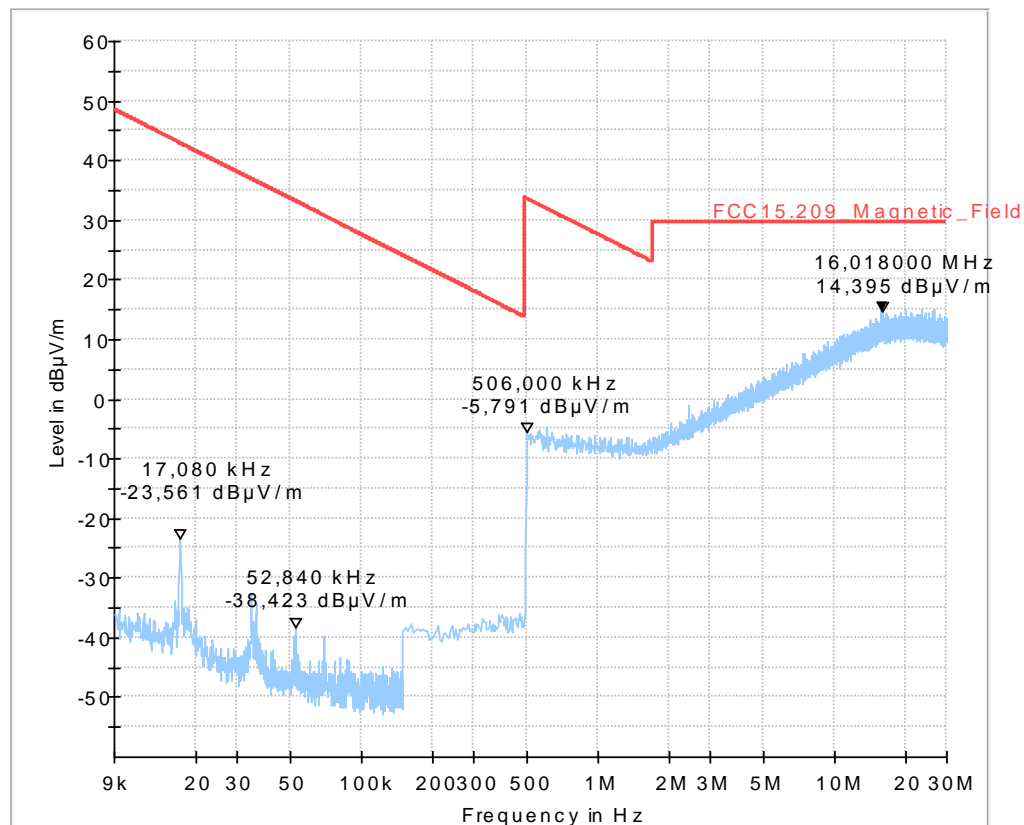
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209
Operator:	RIs
Operating conditions:	n Mode SISO-B.W. 20 MHz-MCS0-Ch 1 (2412 MHz)- PWR+20dBm
Power during tests:	full loaded batteries

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum



2.2. Radiated Field Strength Emissions – 30 MHz to 1 GHz

Diagram No. 3.01_SKORPIO X4-WLAN2.4 GHz-TX- bMode-SISO-B.W20MHz-11Mbit-Ch11-20dBm

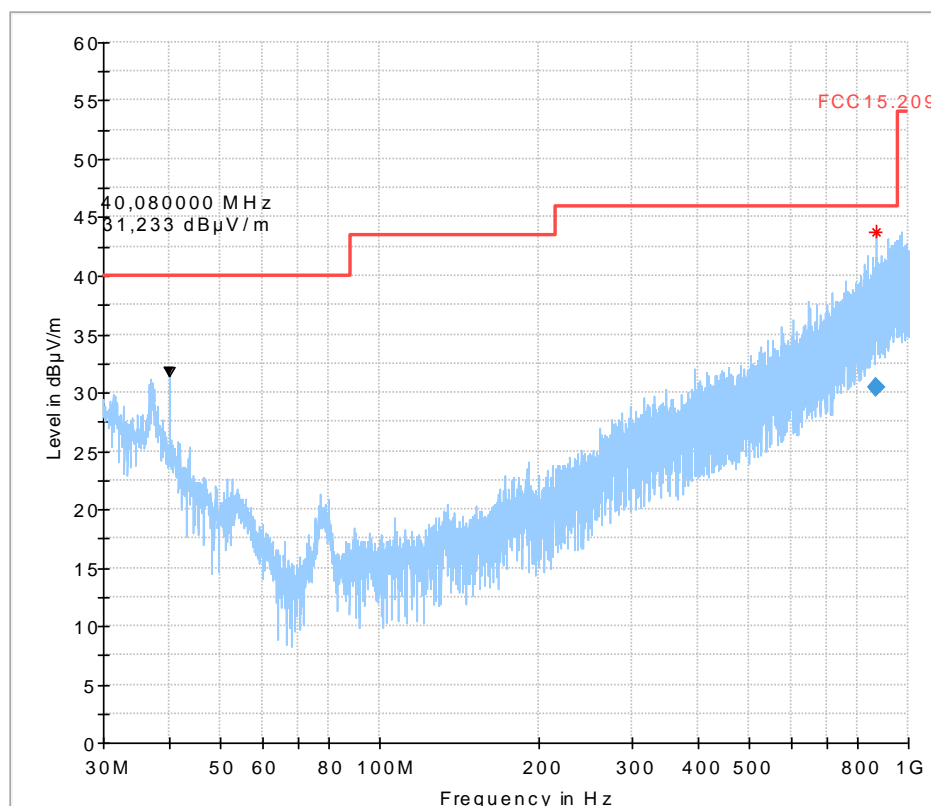
Common Information

Test description:	07.04.2017 Page 1 of 3 Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 § 15.209
Operator:	DLe
Operating conditions:	Continuous TX - b Mode-SISO-B.W. 20 MHz-11Mbit-Ch 11 (2462 MHz)- PWR+20dBm

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
870.320000	30.45	46.00	15.55	1000.0	120.000	338.0	H	359.0	90.0	26.2

Diagram No. 3.02_SKORPIO X4-WLAN2.4 GHz-TX-gMode-SISO-B.W20MHz-6Mbit-Ch6-20dBm

Common Information

Test description:	07.04.2017 Page 1 of 2 Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 § 15.209
Operating Mode	Continuous TX - g Mode-SISO-B.W. 20 MHz-6Mbit-Ch 6 (2437 MHz)- PWR+20dBm
Operator:	DLe
Operating conditions:	Humidity: 35%rH; Temperature: 20°C

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

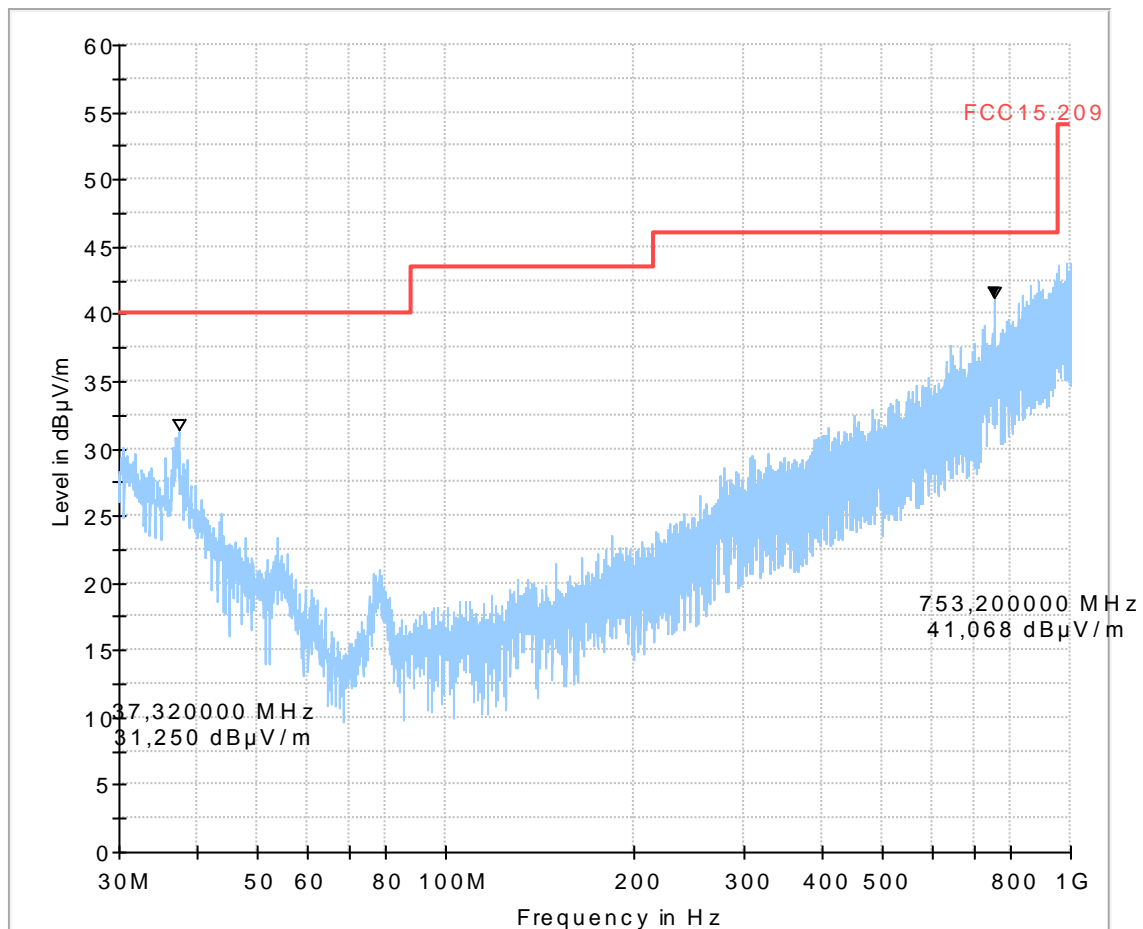


Diagram No. 3.03_SKORPIO X4-WLAN2.4 GHz-TX-nMode-MIMO-B.W20MHz-MCS13-Ch1-20dBm

Common Information

07.04.2017 Page 1 of 2

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 § 15.209
Operating Mode	Continuous TX - n Mode-MIMO-B.W. 20 MHz-MCS13-Ch 1 (2412 MHz)- PWR+20dBm
Operator:	DLe
Operating conditions:	Humidity: 35%rH; Temperature: 20°C

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

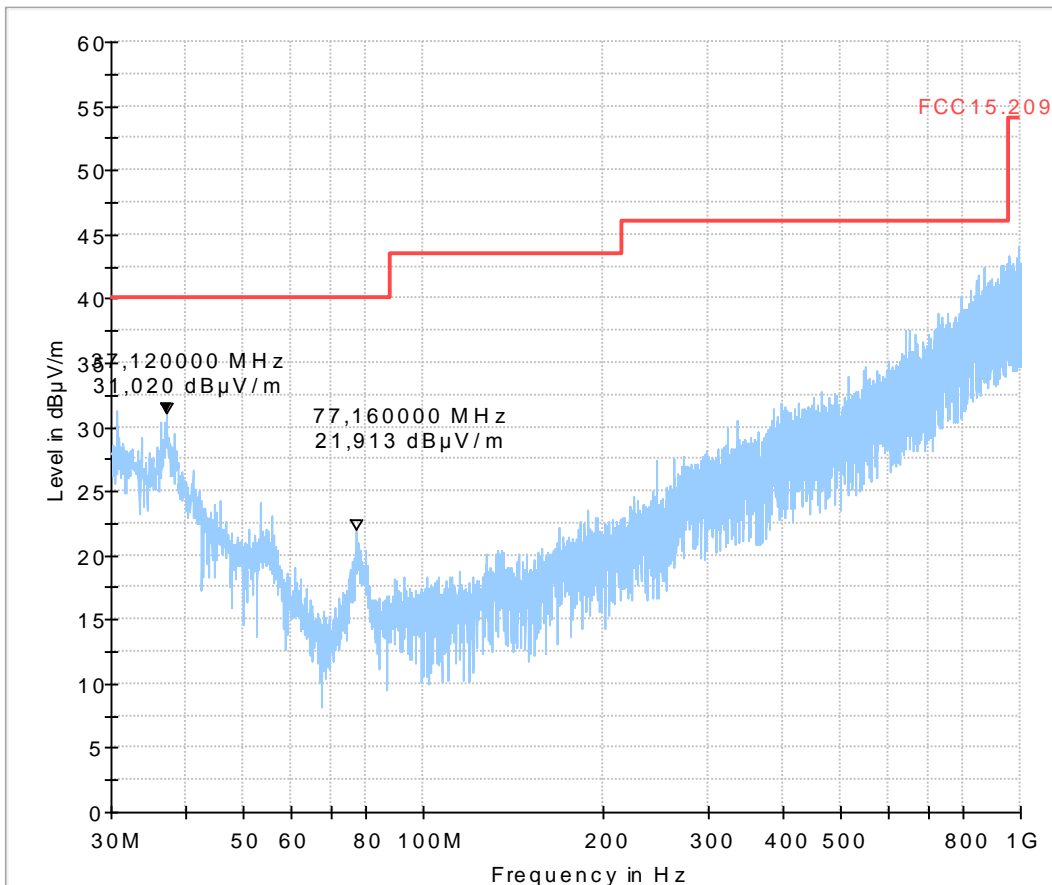


Diagram No. 3.04_SKORPIO X4-WLAN2.4 GHz-TX-nMode-SISO-B.W20MHz-MCS0-Ch1-20dBm

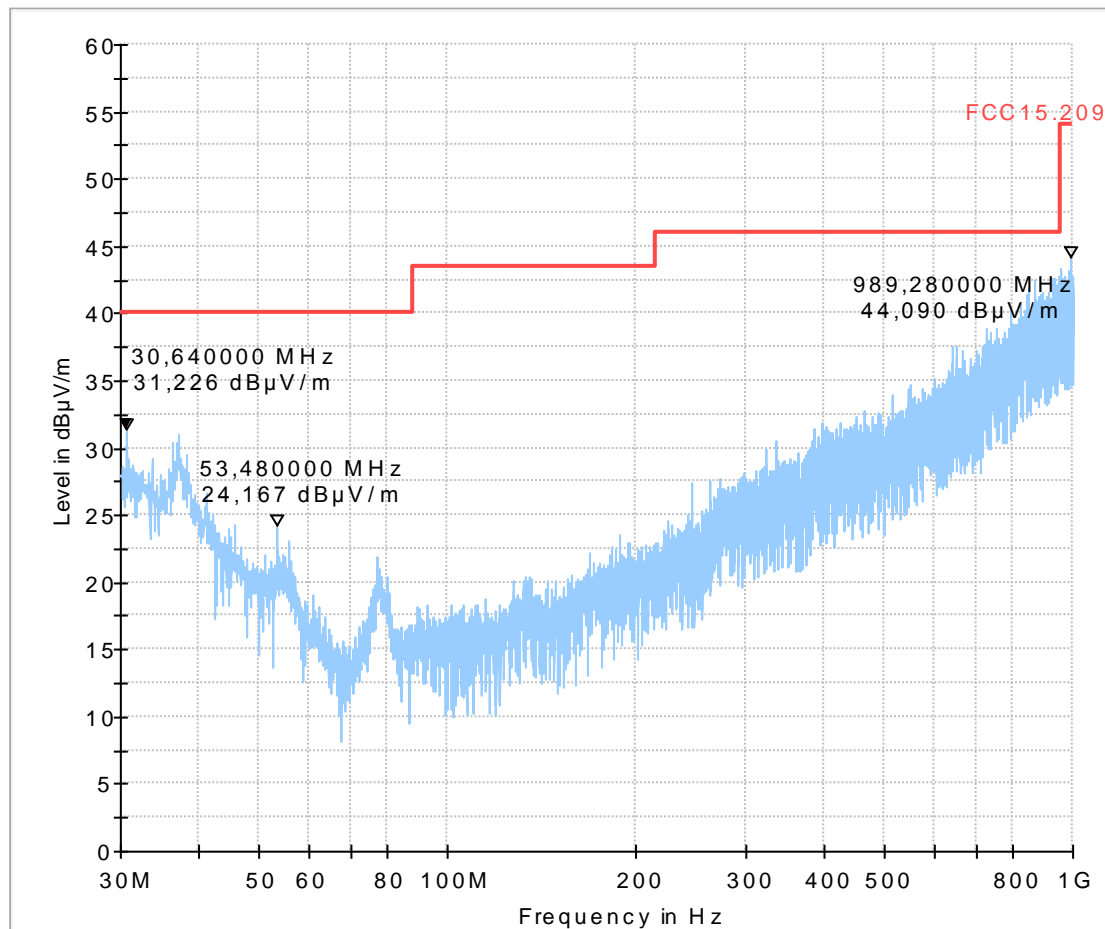
Common Information

Test description:	07.04.2017 Page 1 of 1
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Used filter:	not used
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
Operating Mode	FCC 15.205 § 15.209
	Continuous TX - n Mode-SISO.-B.W. 20 MHz-MCS0-Ch 1 (2412 MHz)- PWR+20dBm
Operator:	DLe
Operating conditions:	Humidity: 35%rH; Temperature: 20°C

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01723
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum



2.3. Radiated Field Strength Emissions – 1 GHz to 18 GHz

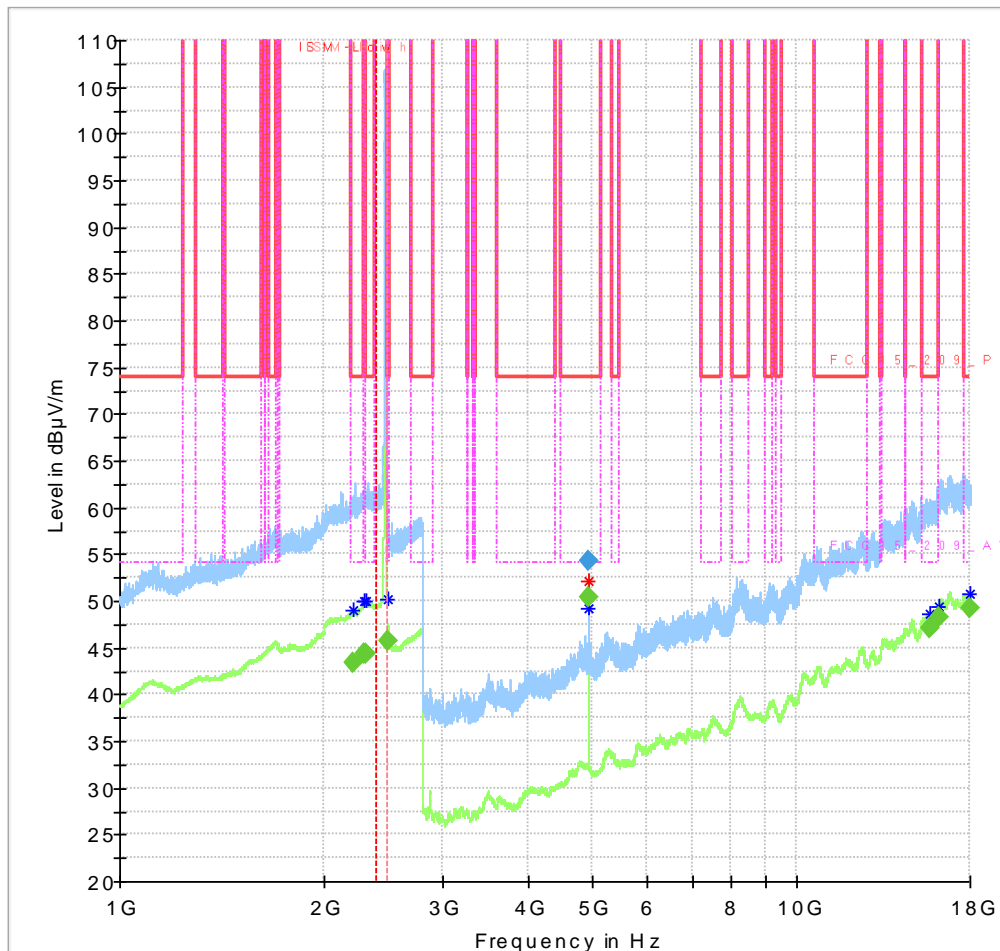
**Diagram No.: 4.01_SKORPIO X4-WLAN2.4 GHz-TX-
bMode-SISO-BW_20MHz-11Mbit-Ch11-20dBm**

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - b Mode-SISO-B.W. 20 MHz-11Mbit-Ch 11 (2462 MHz)- PWR+20dBm
Operator Name:	Afr

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

Final_Result

Frequency (MHz)	MaxPeak (dB μ V/m)	MaxPeak Limit (dB μ V/m)	Average (dB μ V/m) + Duty Cycle Correction (dB)	Average Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)
2211.280000	---	74.00	43.71	54.00	10.29	100.0	1000.000	V	233.0	90.0
2295.800000	---	74.00	44.74	54.00	9.26	100.0	1000.000	H	85.0	0.0
2311.000000	---	74.00	44.78	54.00	9.22	100.0	1000.000	H	1.0	0.0
2483.500000	---	74.00	46.02	54.00	7.98	100.0	1000.000	H	187.0	0.0
4924.000000	---	74.00	50.78	54.00	3.22	100.0	1000.000	V	308.0	90.0
4924.000000	54.37	74.00	---	54.00	19.63	100.0	1000.000	V	309.0	90.0
15700.920000	---	74.00	47.49	54.00	6.51	100.0	1000.000	V	142.0	0.0
16193.280000	---	74.00	48.62	54.00	5.38	100.0	1000.000	H	267.0	90.0
17994.520000	---	74.00	49.57	54.00	4.43	100.0	1000.000	V	127.0	0.0

Frequency (MHz)	Corr. (dB)
2211.280000	35.0
2295.800000	35.7
2311.000000	35.7
2483.500000	35.6
4924.000000	4.4
4924.000000	4.4
15700.920000	23.6
16193.280000	24.8
17994.520000	26.5

For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

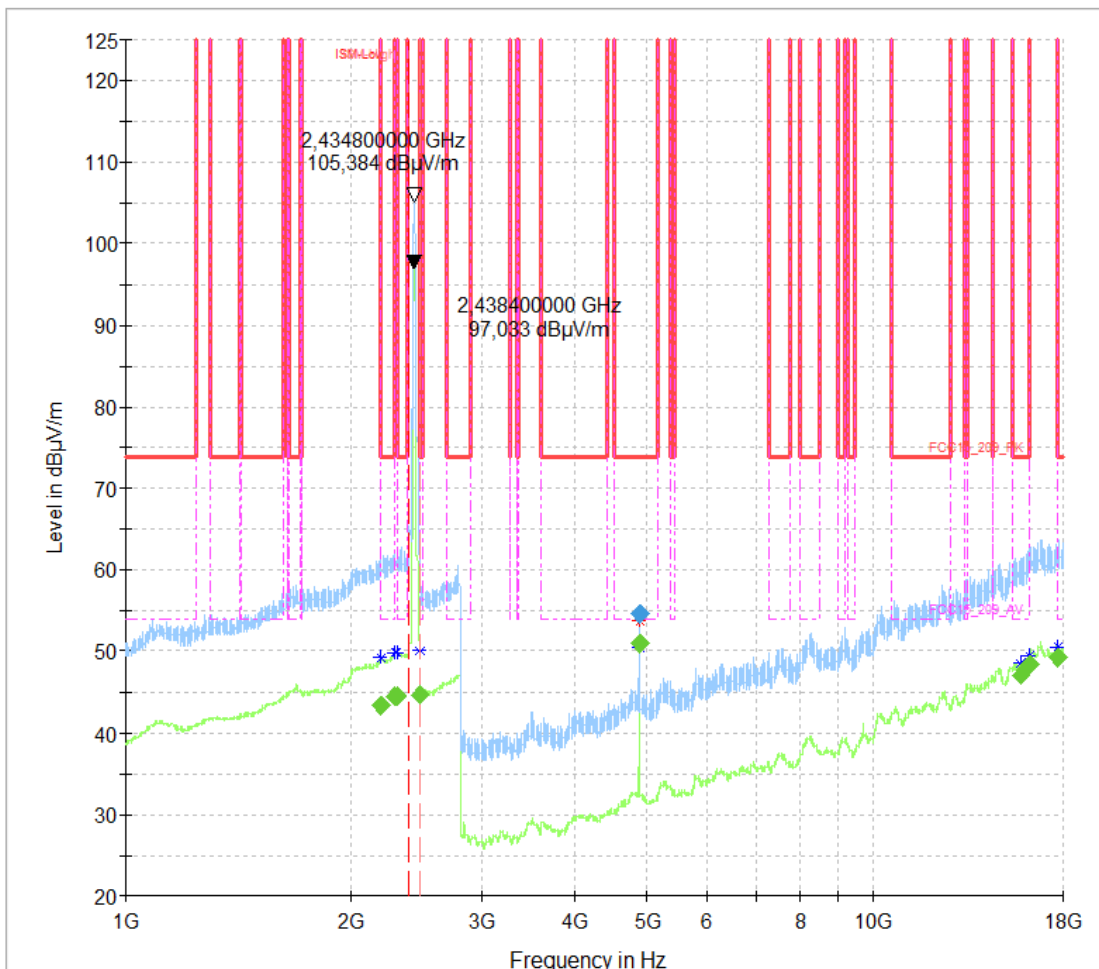
Diagram No.: 4.02_SKORPIO X4-WLAN2.4 GHz-TX-gMode-SISO-BW_20MHz-6Mbit-Ch6-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - g Mode-SISO-B.W. 20 MHz-6Mbit-Ch 6 (2437 MHz)- PWR+20dBm
Operator Name:	Afr

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	MaxPeak Limit (dB μ V/m)	Average (dB μ V/m) + Duty Cycle Correction (dB)	Average Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)
2201.720000	---	74.00	43.57	54.00	10.43	100.0	1000.000	V	46.0	90.0
2299.560000	---	74.00	44.67	54.00	9.33	100.0	1000.000	H	299.0	90.0
2313.080000	---	74.00	44.58	54.00	9.42	100.0	1000.000	V	90.0	90.0
2483.500000	---	74.00	44.98	54.00	9.02	100.0	1000.000	H	124.0	90.0
4874.000000	---	74.00	51.15	54.00	2.85	100.0	1000.000	V	160.0	0.0
4874.000000	54.56	74.00	---	54.00	19.44	100.0	1000.000	V	159.0	0.0
15779.520000	---	74.00	47.36	54.00	6.64	100.0	1000.000	V	150.0	0.0
16195.480000	---	74.00	48.47	54.00	5.53	100.0	1000.000	H	43.0	90.0
17743.560000	---	74.00	49.41	54.00	4.59	100.0	1000.000	V	160.0	0.0

Frequency (MHz)	Corr. (dB)
2201.720000	35.1
2299.560000	35.8
2313.080000	35.7
2483.500000	35.6
4874.000000	4.7
4874.000000	4.7
15779.520000	23.7
16195.480000	24.8
17743.560000	25.8

For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

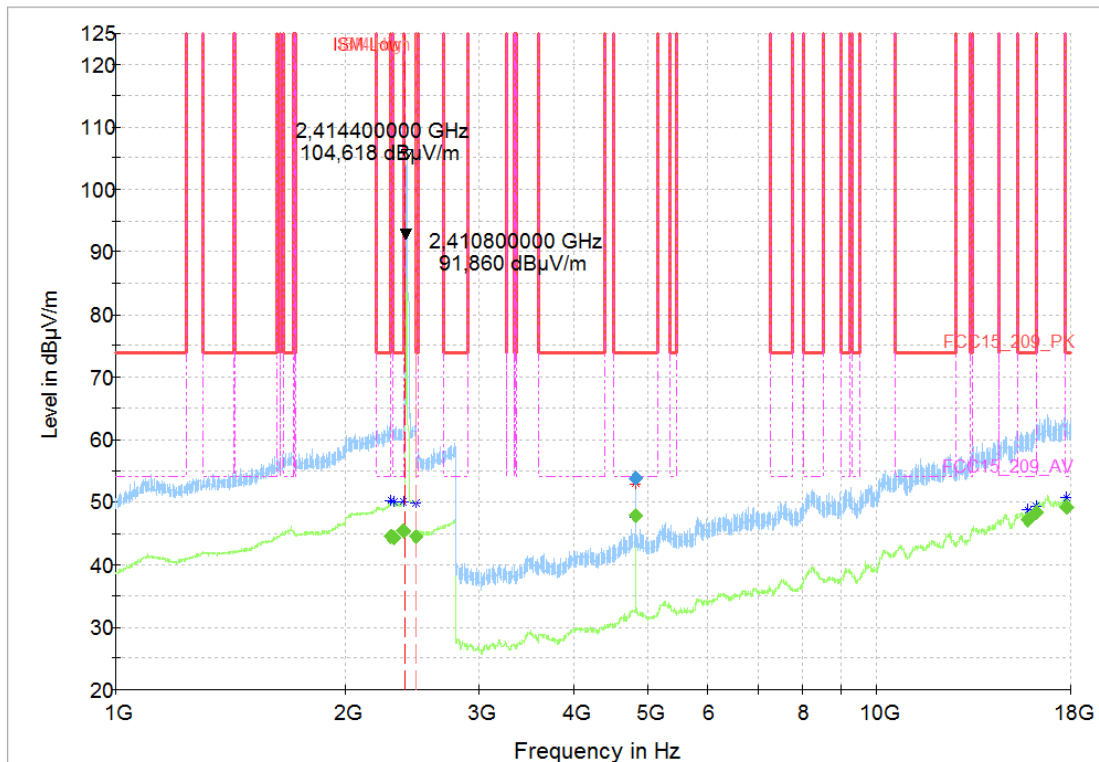
Diagram No.: 4.03_SKORPIO X4-WLAN2.4 GHz-TX-nMode-MIMO-BW_20MHz-MCS13-Ch1-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - n Mode-MIMO-B.W. 20 MHz-MCS13-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	AFr

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	MaxPeak Limit (dB μ V/m)	Average (dB μ V/m) + Duty Cycle Correction (dB)	Average Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)
2297.880000	---	74.00	46.85	54.00	7.15	100.0	1000.000	V	45.0	0.0
2317.240000	---	74.00	46.78	54.00	7.22	100.0	1000.000	V	228.0	0.0
2389.800000	---	74.00	47.81	54.00	6.19	100.0	1000.000	V	149.0	0.0
2483.500000	---	74.00	47.01	54.00	6.99	100.0	1000.000	H	133.0	0.0
4824.000000	---	74.00	50.36	54.00	3.64	100.0	1000.000	V	238.0	0.0
4824.000000	53.82	74.00	---	54.00	20.18	100.0	1000.000	V	239.0	0.0
15780.360000	---	74.00	49.55	54.00	4.45	100.0	1000.000	V	-24.0	90.0
16197.520000	---	74.00	50.72	54.00	3.28	100.0	1000.000	H	69.0	90.0
17747.480000	---	74.00	51.62	54.00	2.38	100.0	1000.000	V	209.0	0.0

Frequency (MHz)	Corr. (dB)
2297.880000	35.7
2317.240000	35.7
2389.800000	35.5
2483.500000	35.6
4824.000000	4.8
4824.000000	4.8
15780.360000	23.7
16197.520000	24.8
17747.480000	25.8

For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

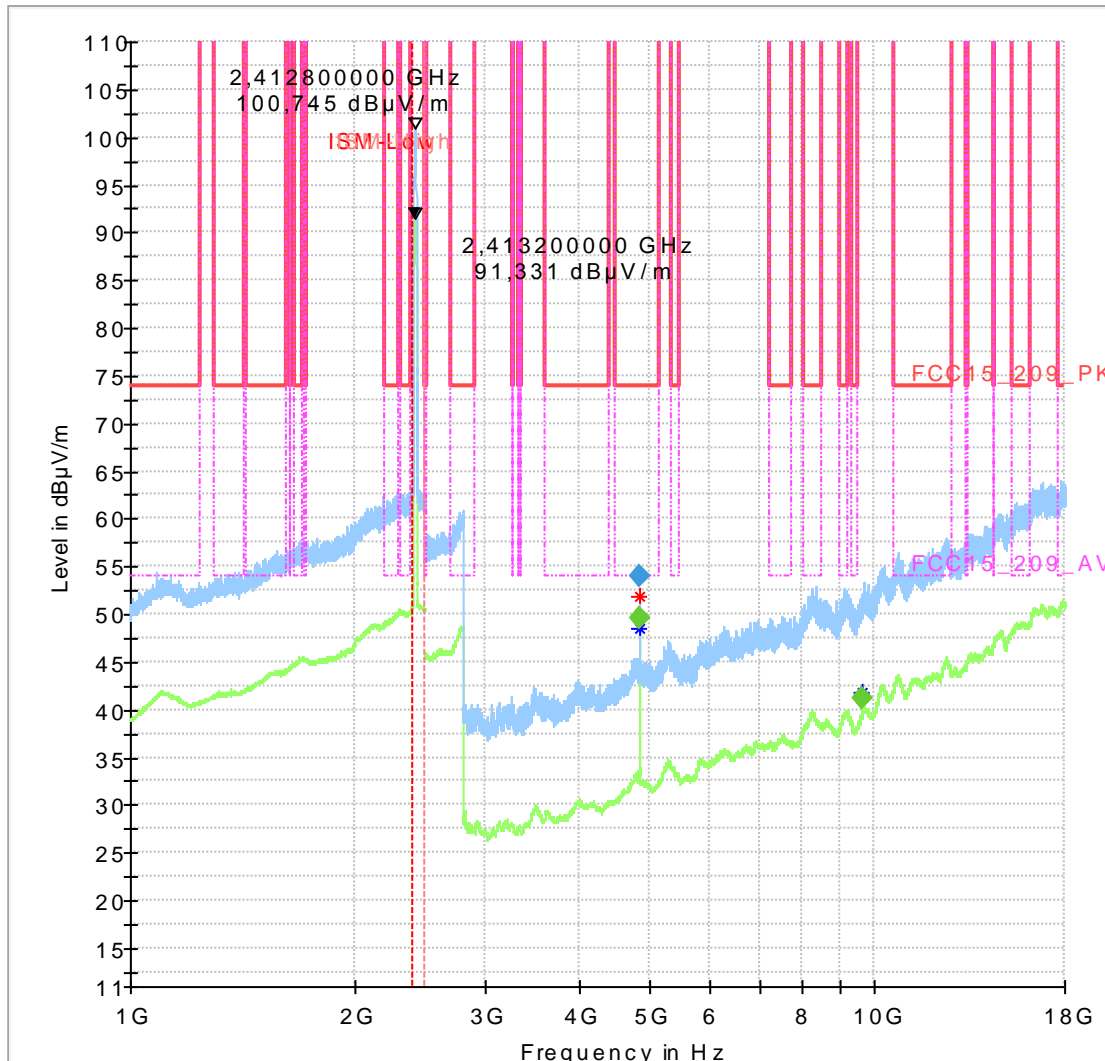
Diagram No.: 4.04_SKORPIO X4-WLAN2.4 GHz-TX-nMode-SISO-BW_20MHz-MCS0-Ch1-20dBm

Common Information

Test Description:	Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - n Mode-SISO-B.W. 20 MHz-MCS0-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	Afr

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	MaxPeak Limit (dB μ V/m)	Average (dB μ V/m) + Duty Cycle Correction (dB)	Average Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Elevation (deg)
4824.000000	---	74.00	49.83	54.00	4.17	100.0	1000.000	V	170.0	90.0
4824.000000	54.08	74.00	---	54.00	19.92	100.0	1000.000	V	159.0	90.0
9648.000000	---	74.00	41.50	149.55	108.05	100.0	1000.000	V	226.0	0.0

Frequency (MHz)	Corr. (dB)
4824.000000	4.8
4824.000000	4.8
9648.000000	14.8

For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

2.4. Radiated Field Strength Emissions – 18 GHz to 25 GHz

Diagram No.: 4.01a_SKORPIO X4-WLAN2.4 GHz-TX-
bMode-SISO-B.W20MHz-11Mbit-Ch11-20dBm

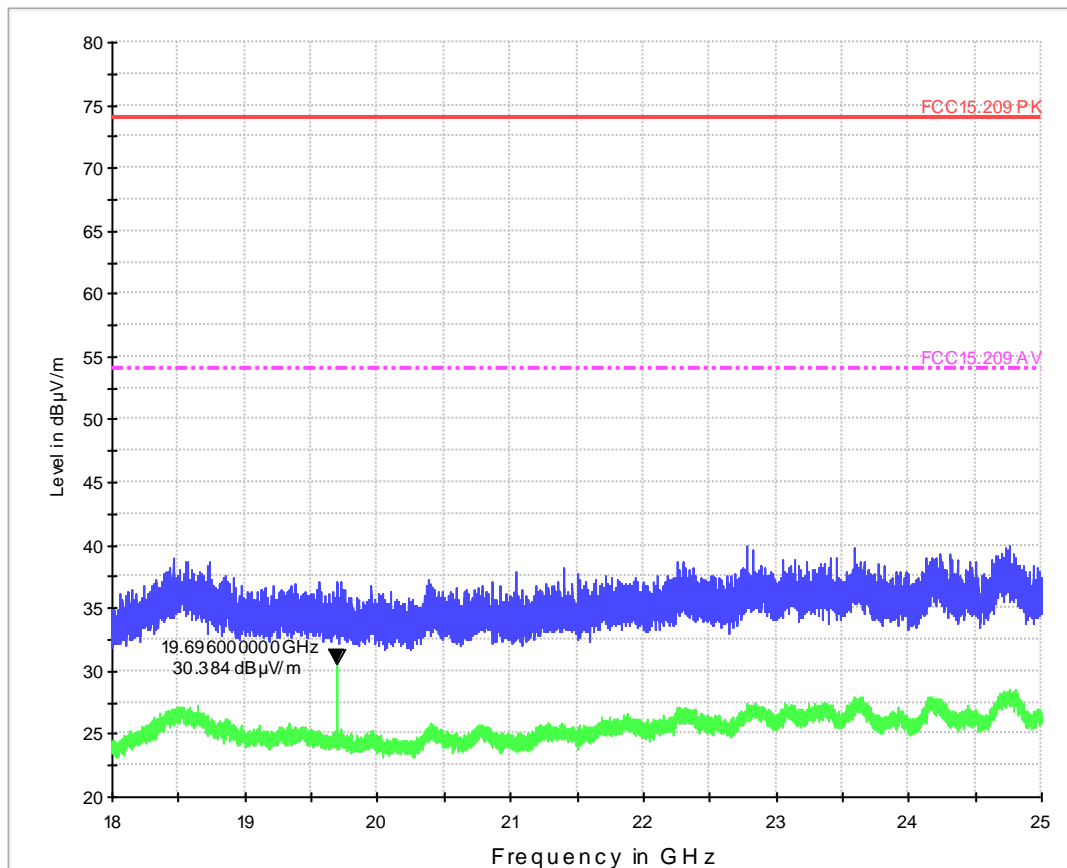
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	Continuous TX - b Mode-SISO-B.W. 20 MHz-11Mbit-Ch 11 (2462 MHz)- PWR+20dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

EMI Scan_18_25GHz_Pre



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

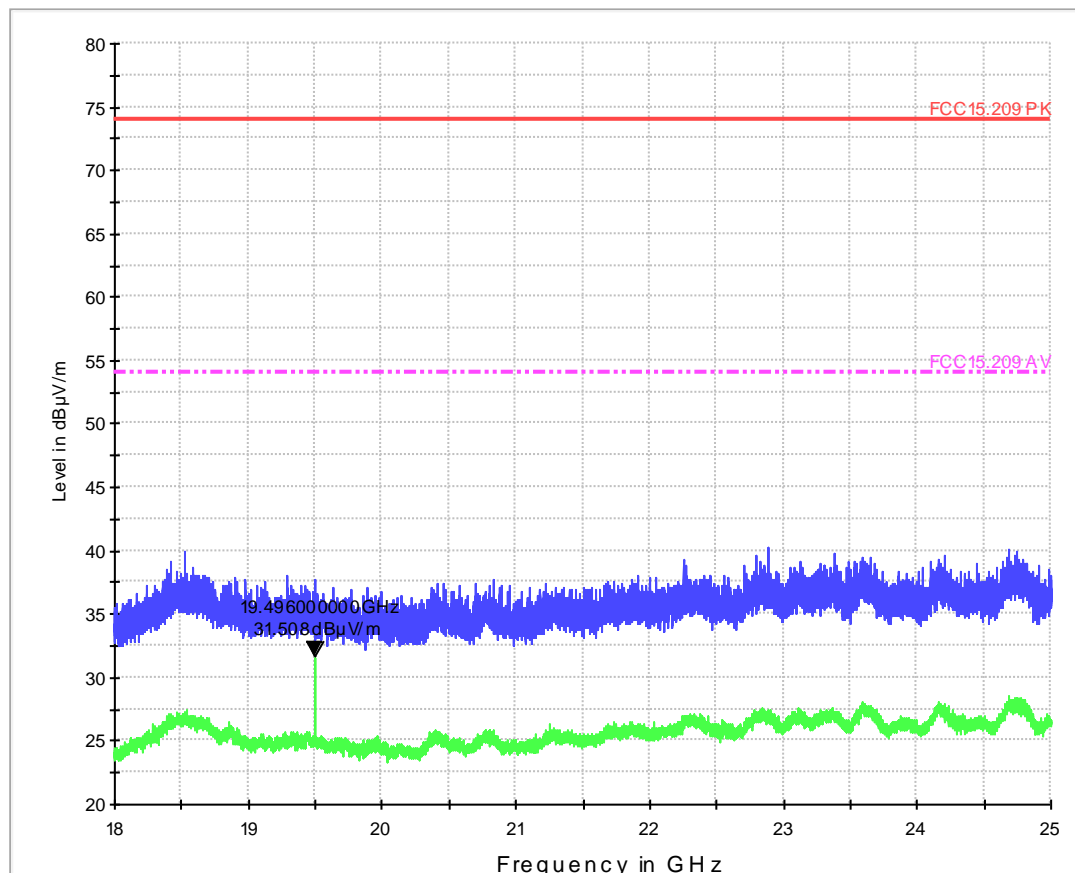
Diagram No.: 4.02a_SKORPIO X4-WLAN2.4 GHz-TX-gMode-SISO-B.W20MHz-6Mbit-Ch6-20dBm
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	Continuous TX - g Mode-SISO-B.W. 20 MHz-6Mbit-Ch 6 (2437 MHz)- PWR+20dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

EMI Scan_18_25GHz_Pre



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

**Diagram No.: 4.03a_SKORPIO X4-WLAN2.4 GHz-TX-
nMode-MIMO-B.W20MHz-MCS13-Ch1-20dBm**

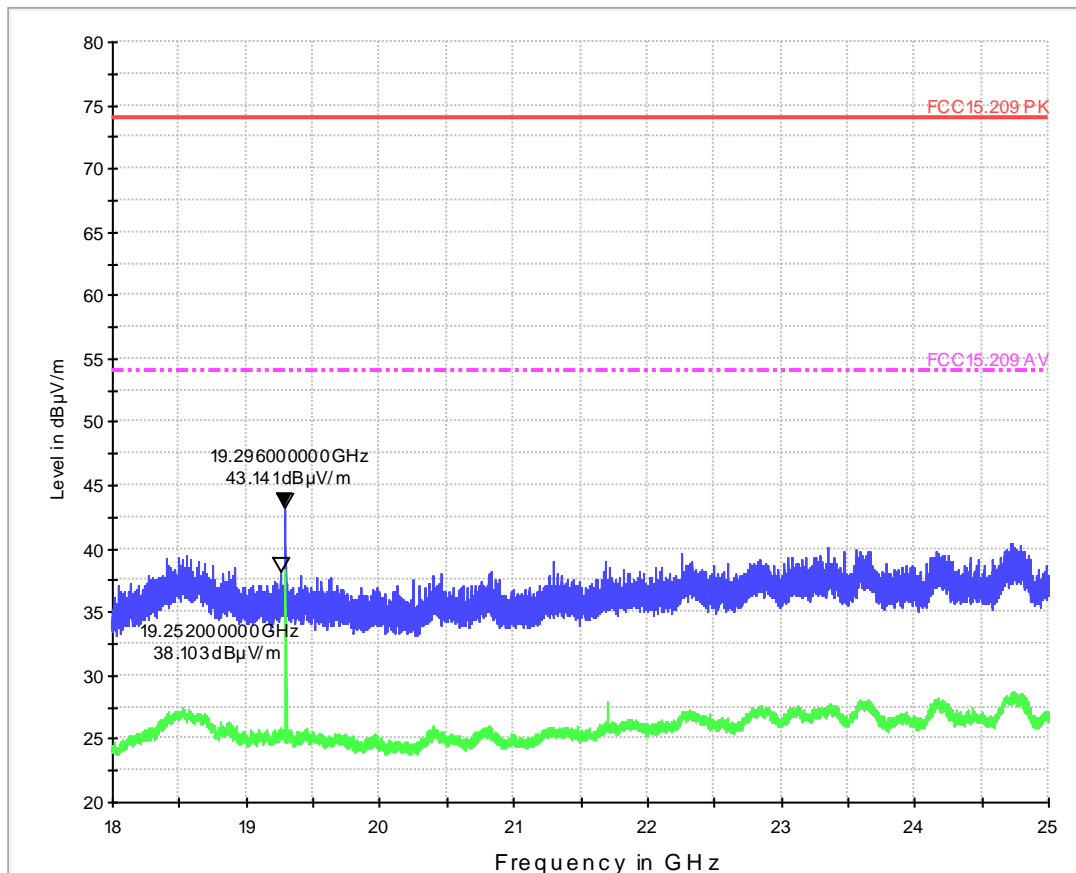
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	Continuous TX - n Mode-MIMO-B.W. 20 MHz-MCS13-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

EMI Scan_18_25GHz_Pre



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

**Diagram No.: 4.04a_SKORPIO X4-WLAN2.4 GHz-TX-
nMode-SISO-B.W20MHz-MCS0-Ch1-20dBm**

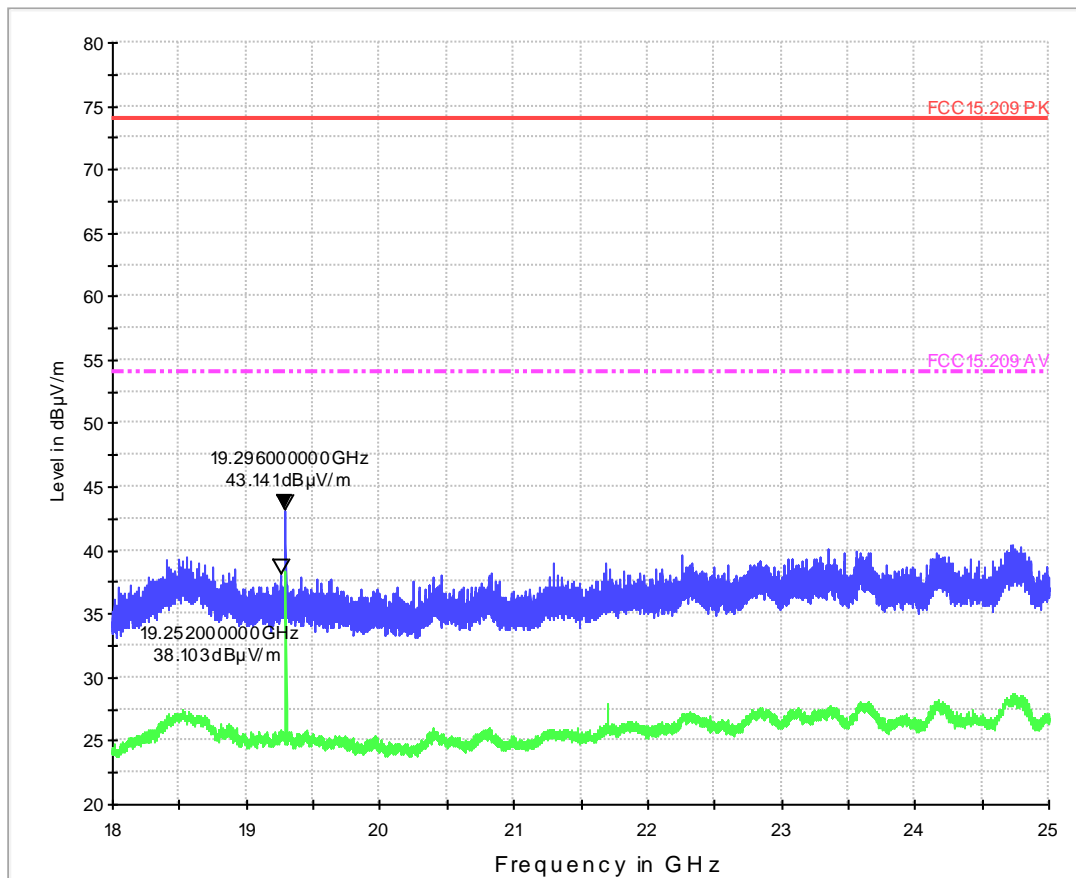
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	Continuous TX - n Mode-SISO-B.W. 20 MHz-MCS0-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

EMI Scan_18_25GHz_Pre



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3. Radiated Band-Edge Measurements

3.1. b SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge)

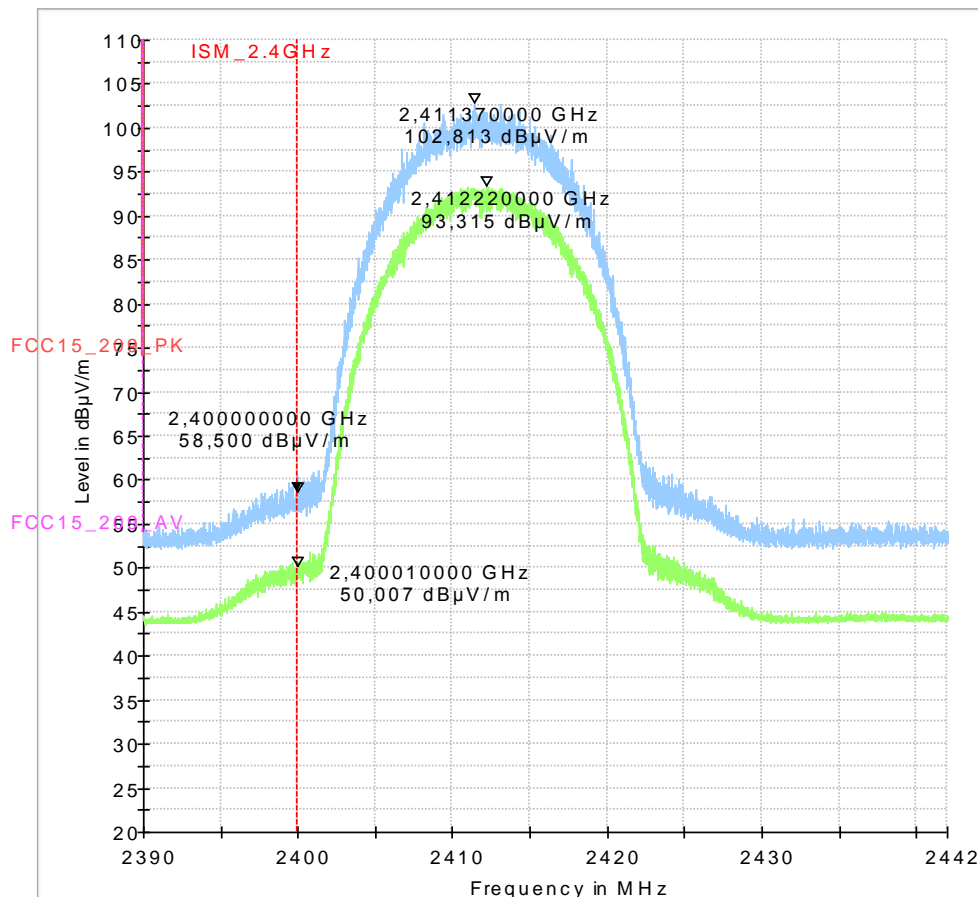
9.01_BE-Low-TX-bMode-SISO-BW_20MHz-11Mbit-Ch1-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - b Mode-SISO-B.W. 20 MHz-11Mbit-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	Mah

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.2. b SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge)

Diagram No.: 9.02_BE-High-SKORPIO X4-WLAN2.4 GHz-TX-bMode-SISO-BW_20MHz-11Mbit-Ch11-20dBm

Common Information

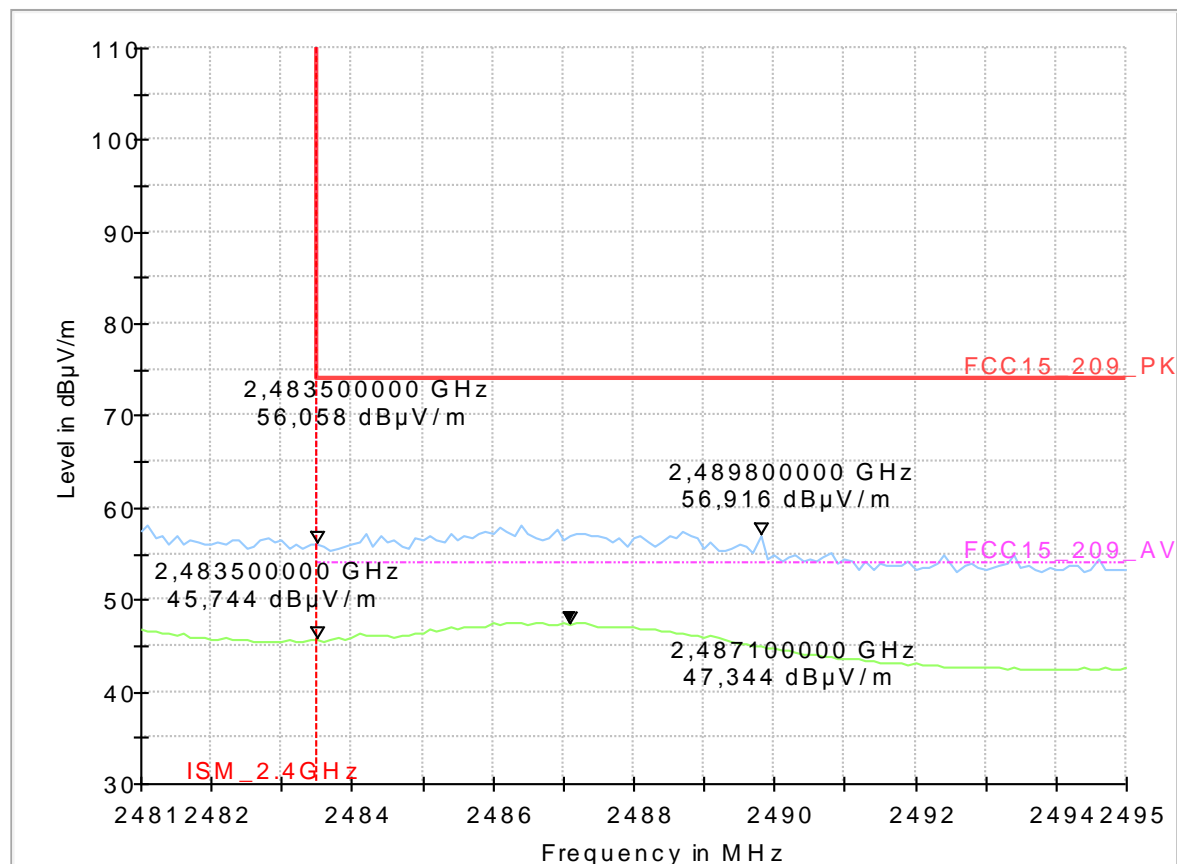
Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - b Mode-SISO-B.W. 20 MHz-11Mbit-Ch 11 (2462 MHz)- PWR+20dBm
Operator Name:	Mah

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

Full Spectrum



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.3. g SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge)

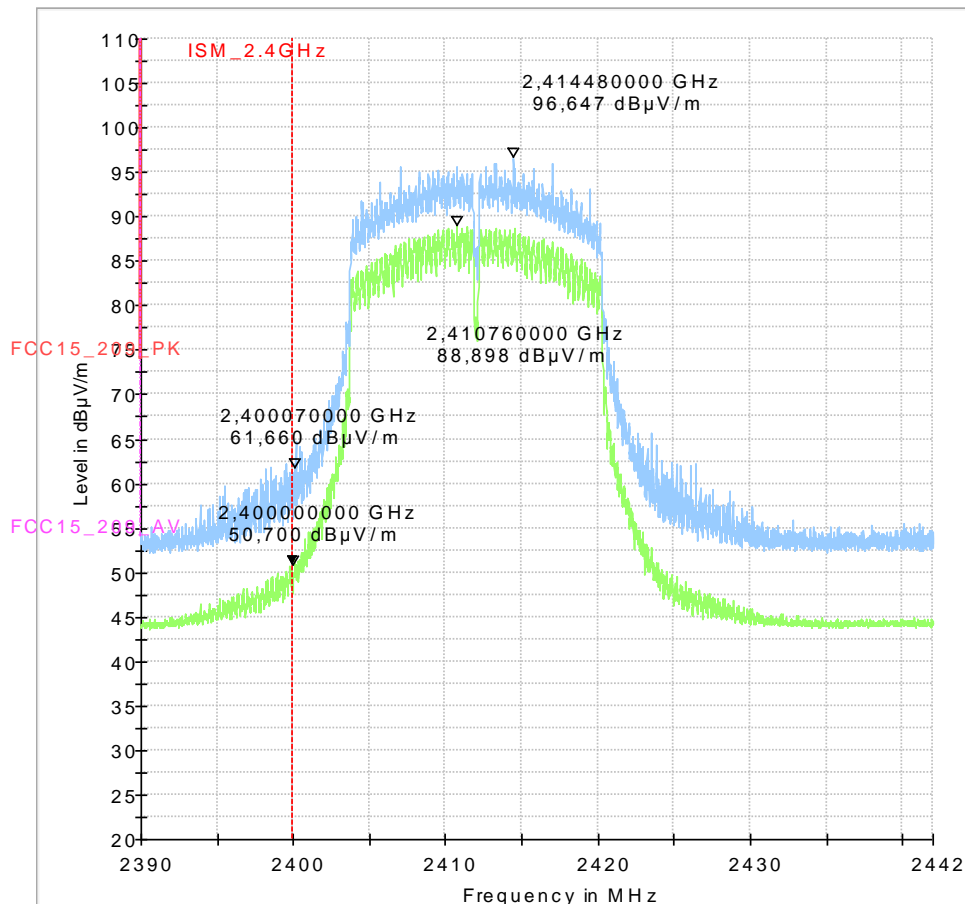
9.03_BE-Low-TX-gMode-SISO-BW_20MHz-6Mbit-Ch1-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	g Mode-SISO-B.W. 20 MHz-6Mbit-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	Mah

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.4. g SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge)

Diagram No.: 9.04_BE-High-SKORPIO X4-WLAN2.4 GHz-TX-gMode-SISO-BW_20MHz-6Mbit-Ch11-20dBm

Common Information

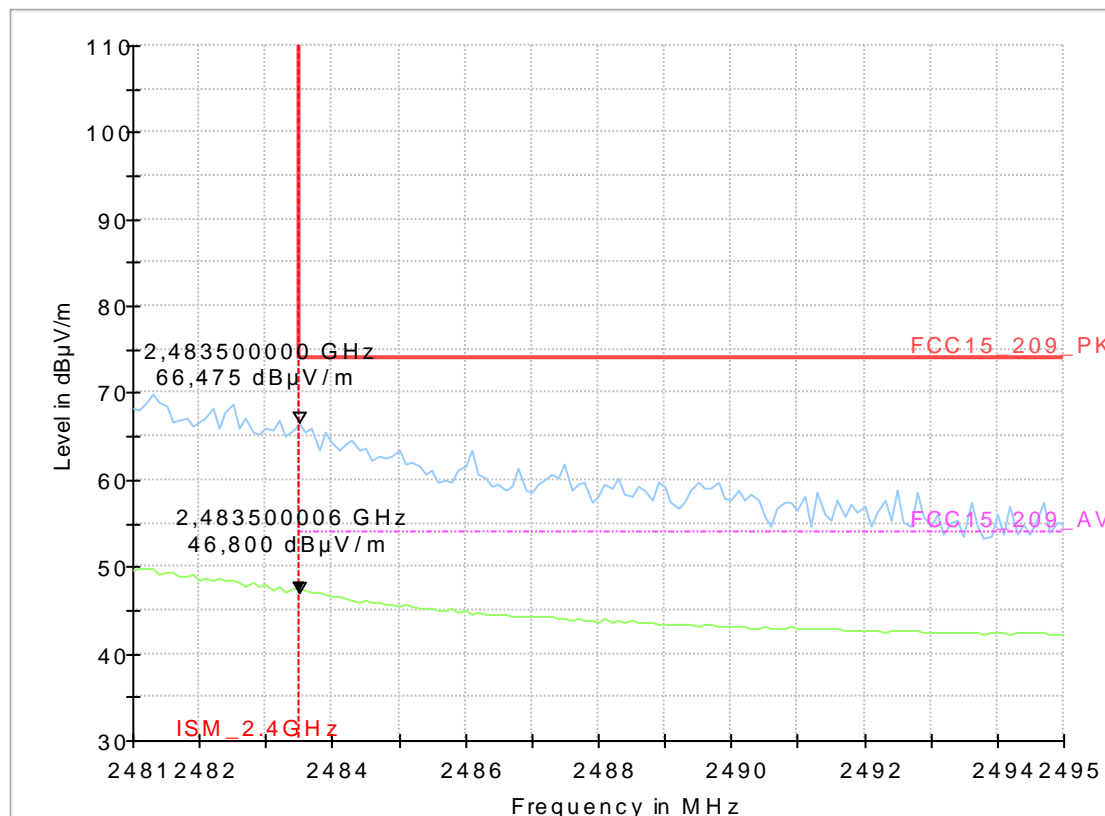
Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - g Mode-SISO-B.W. 20 MHz-6Mbit-Ch 11 (2462 MHz)- PWR+20dBm
Operator Name:	Mah

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)

Full Spectrum

Full Spectrum



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.5. n SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge)

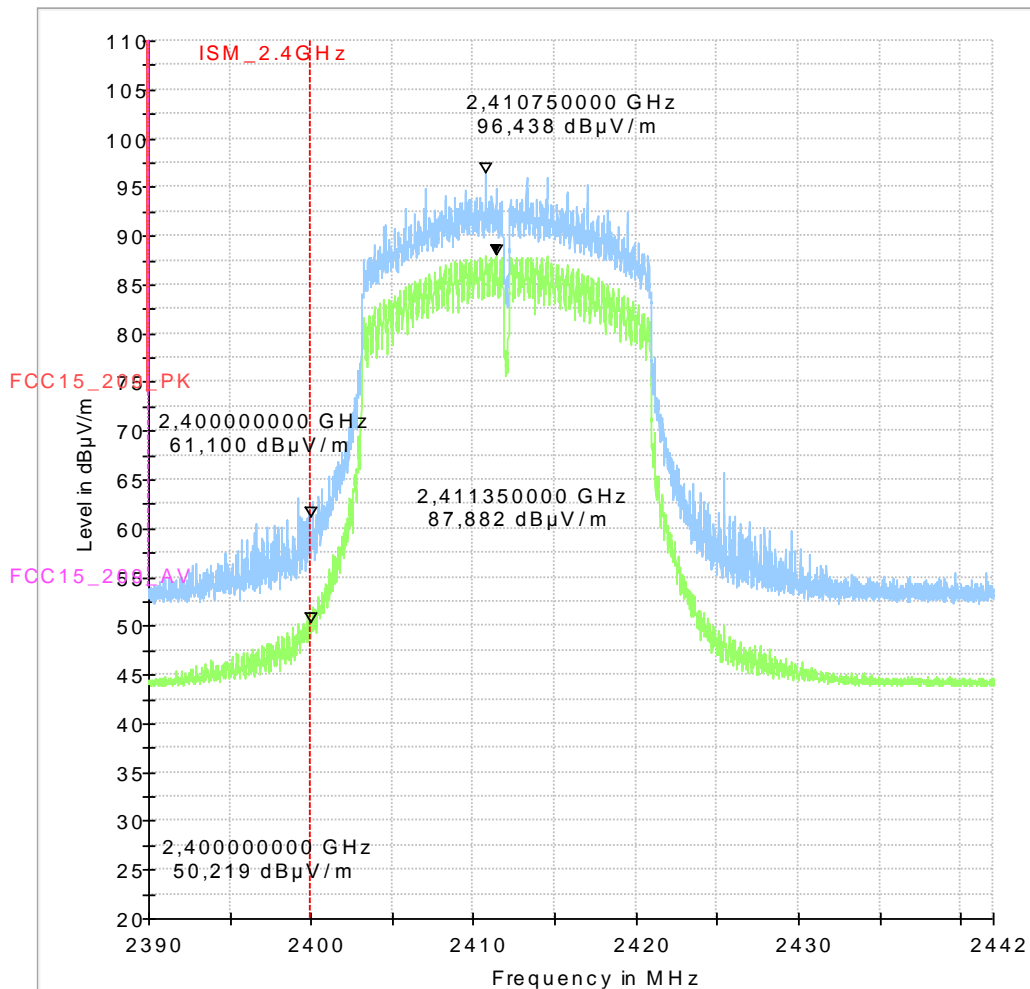
Diagram No.: 9.07_BE-Low-TX-nMode-SISO-BW_20MHz-MCS0-Ch1-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	n Mode-SISO-B.W. 20 MHz-MCS0-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	Mah

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.6. n SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge)

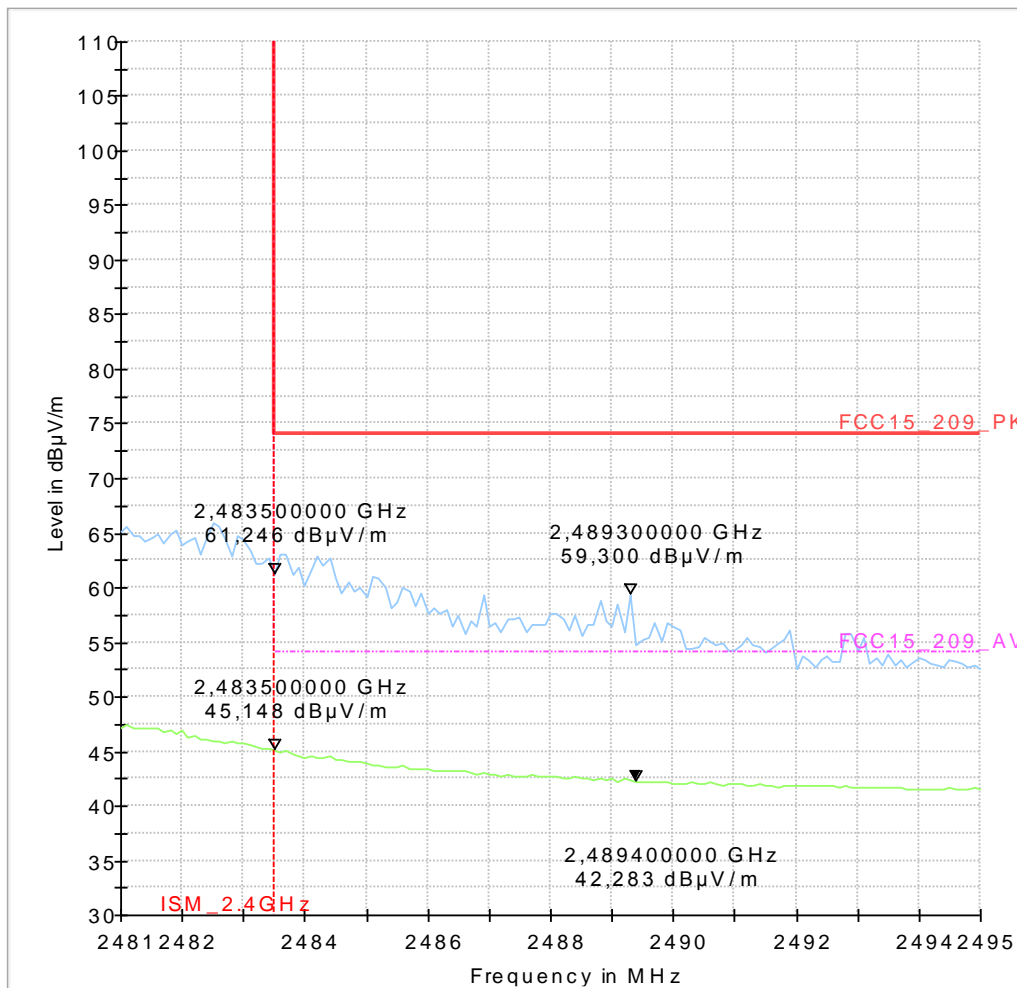
Diagram No.: 9.08_BE-High-SKORPIO X4-WLAN2.4 GHz-TX-nMode-SISO-BW_20MHz-MCS0-Ch11-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - n Mode-SISO-B.W. 20 MHz-MCS0-Ch 11 (2462 MHz)- PWR+20dBm
Operator Name:	Aph

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Andoriod 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.7. n MIMO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge)

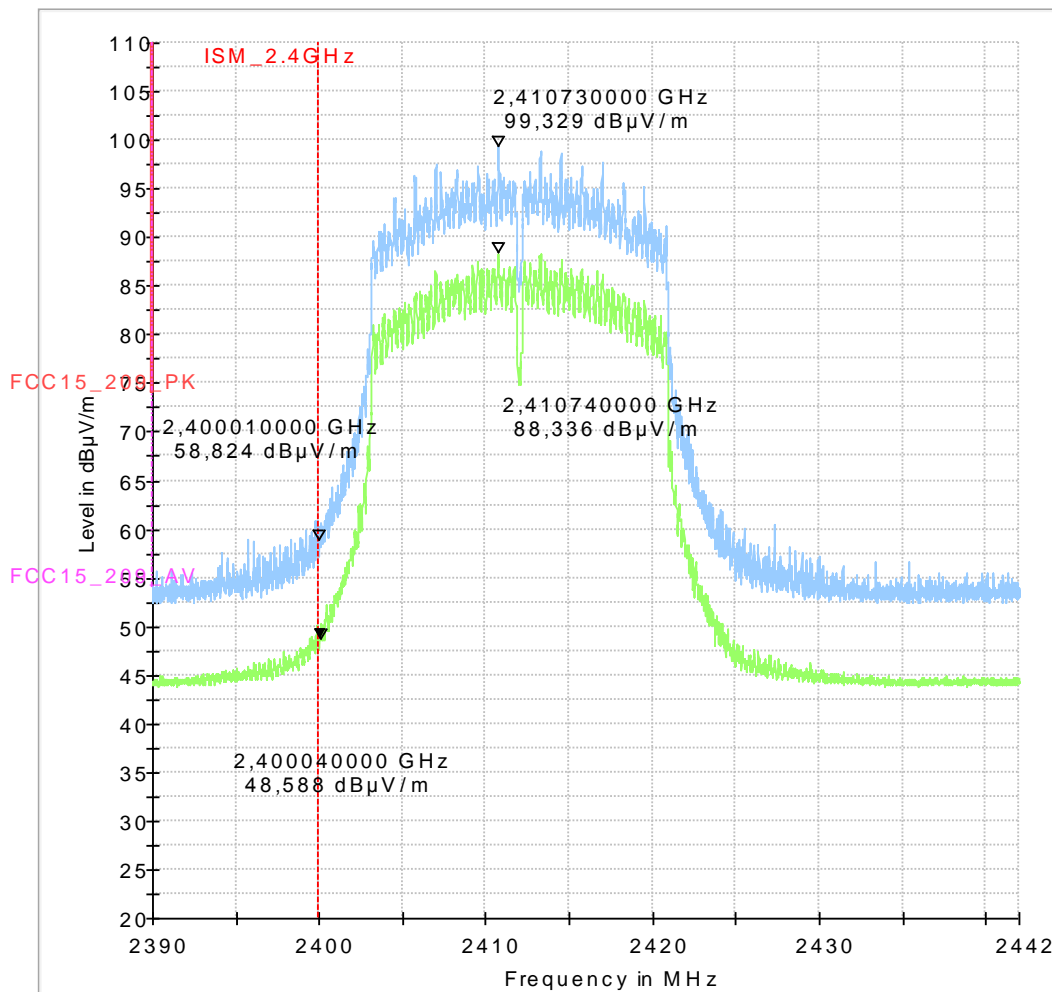
Diagram No.: 9.05_BE-Low-TX-nMode-MIMO-BW_20MHz-MCS13-Ch1-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	n Mode-MIMO-B.W. 20 MHz-MCS13-Ch 1 (2412 MHz)- PWR+20dBm
Operator Name:	Mah

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a

3.8. n MIMO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge)

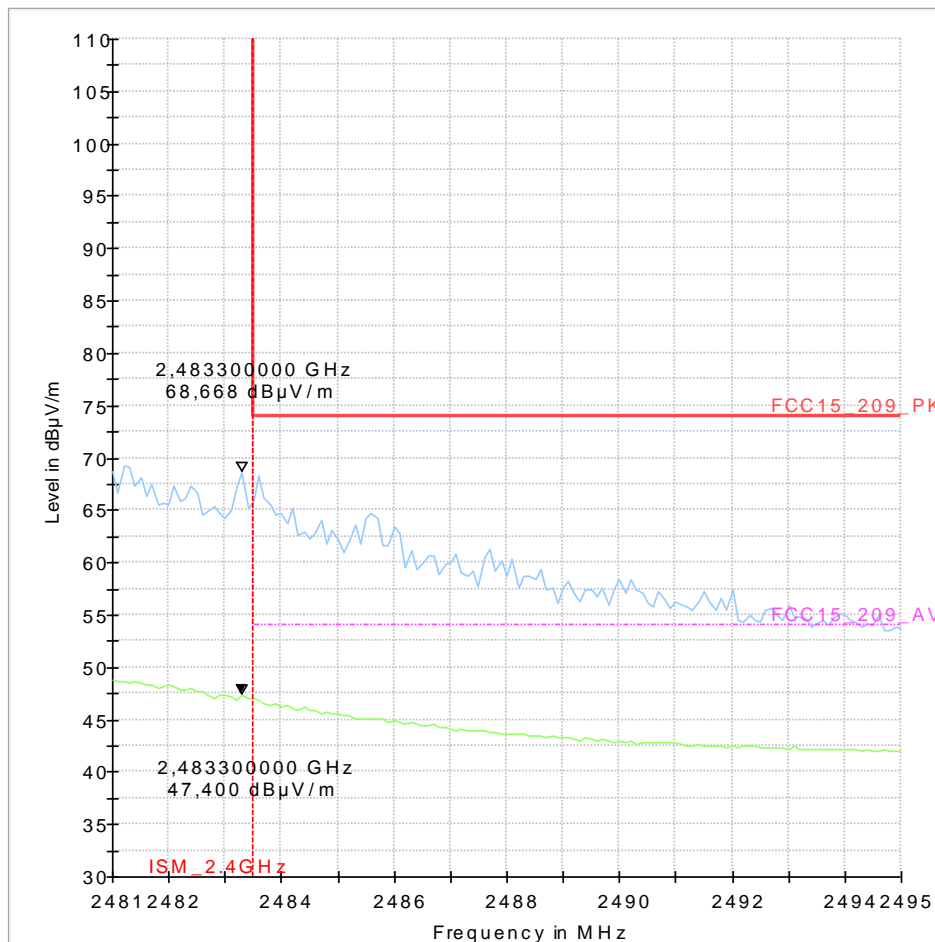
Diagram No.: 9.06_BE-High-SKORPIO X4-WLAN2.4 GHz-TX-nMode-MIMO-BW_20MHz-MCS13-Ch11-20dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205 § 15.209 & FCC 15.247 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	Continuous TX - n Mode-MIMO-B.W. 20 MHz-MCS13-Ch 11 (2462 MHz)-PWR+20dBm
Operator Name:	RIs

EUT Information

Manufacturer:	Datalogic S.r.l.
EUT MODEL:	SKORPIO X4
EuT Type:	00ANM4HS0GF0A4
P/N:	942600012
S/N:	Z16P01691
HW Version:	BETA
SW Version:	Android 4.4.4
Firmware Version:	2.00.29
Input:	fully Internal Battery charging
Battery Type:	BT-0016 Li-ion 3.7V DC 5200mAh (2 Cylindrical Cells)



For Average RMS Values Duty-Cycle Correction is applicable : Chapter 5.1 Test Report 16-1-0181301T09a