

Annex 1: Diagramms to PARTIAL TEST REPORT

No.: 2-20842790-15-10a

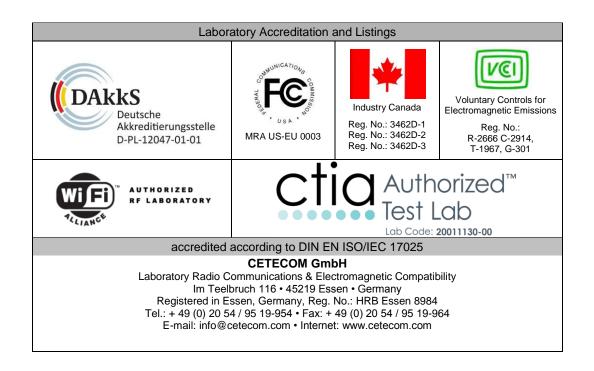
According to: FCC Regulations Part 15.209 Part 15.247

IC-Regulations RSS-Gen, Issue 4 RSS-247, Issue 1

for

Datalogic ADC S.r.l.
JOYA TOUCH
Type: P00AN04HL0GT0W7-GRR

FCC-ID: U4GJNGWB IC: 3862E-JNGWB PMN: JOYA TOUCH HVIN: JNG P GUN





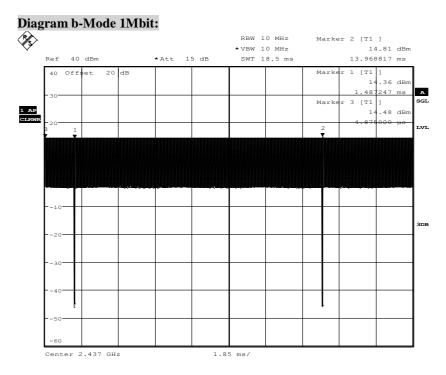
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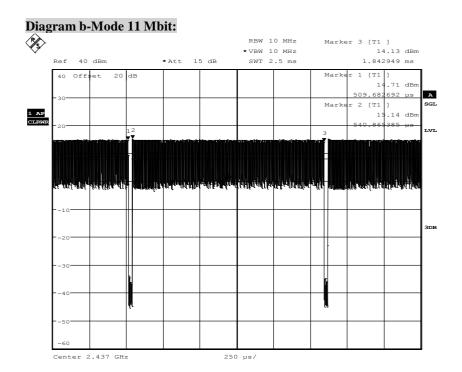


# 1. Duty-Cycle of Transmitter

The characteristics of the implemented test mode was checked on middle channel no. 6 (b-Mode , g –Mode and n –Mode HT20) only.

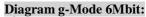


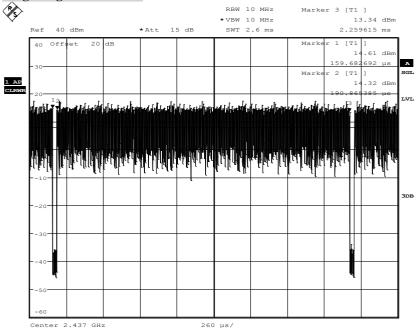
Date: 2.MAY.2016 22:40:09



Date: 2.MAY.2016 22:42:05

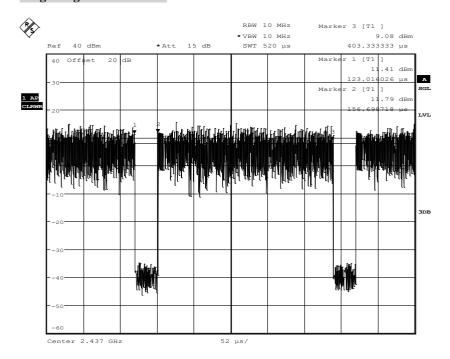






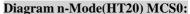
Date: 2.MAY.2016 22:43:24

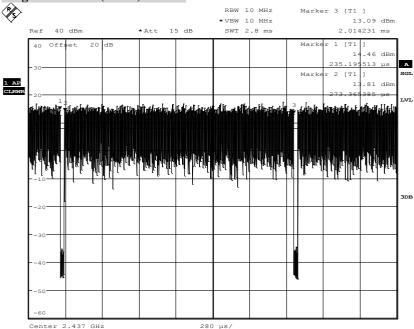
### Diagram g-Mode 54Mbit:



Date: 2.MAY.2016 22:44:32

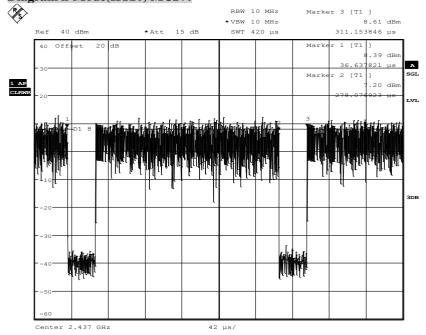






Date: 2.MAY.2016 22:45:58

### Diagram n-Mode(HT20) MCS7:



Date: 2.MAY.2016 22:47:40



# 2. Maximum Peak Conducted Output Power

### 2.1. 20MHz signal BW

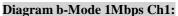
b-mo	de	Cha	nnel no. / [dl	Bm]	May Value / [dDm]
Data rate	Modulation	1	6	11	Max-Value / [dBm]
1MBit		14,36	14,27	13,66	
2Mbit		14,35	14,27	13,45	
5.5Mbit		14,26	14,08	13,37	14,36
11MBit		14,36	14,10	13,36	
g-Mo	g-Mode		<mark>innel no. / [dl</mark>	Bm]	Max-Value / [dBm]
Data rate	Modulation	1	6	11	Wax value / [ubili]
6Mbit		13,62	15,78	12,25	
9Mbit		13,71	15,73	12,35	
12Mbit		13,64	15,77	12,27	
18Mbit		13,55	15,67	12,17	15,98
24Mbit		13,09	15,98	12,56	13,36
36Mbit		12,68	15,64	12,13	
48Mbit		12,69	14,43	12,15	
54MBit		12,85	13,11	12,29	
n-Mode (1 spatial str		Cha	nnel no. / [dl	Max-Value / [dBm]	
Data rate	Modulation	1	6	11	
MCS0 -6.5Mbps	BPSK	12,69	12,95	11,48	
MCS1 - 13Mbps	QPSK	12,68	12,57	12,65	
MCS2 - 19.5Mbps	QPSK	12,52	12,54	11,32	
MCS3 - 26Mbps	QAM16	12,64	12,61	11,44	12.05
MCS4 -39Mbps	QAM16	12,59	12,87	11,43	12,95
MCS5 - 52MBps	QAM64	12,53	12,77	11,33	
MCS6 - 58.5MBps	QAM64	11,58	10,48	10,22	
MCS7 - 65MBps	QAM64	11,44	10,32	10,04	

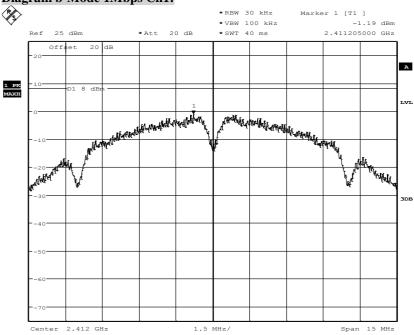
#### Remarks:

- 1.) The values in above table are conducted output power without declared antenna gain .
- 2.) The maximum measured conducted power values among each mode for each channel are highlighted.



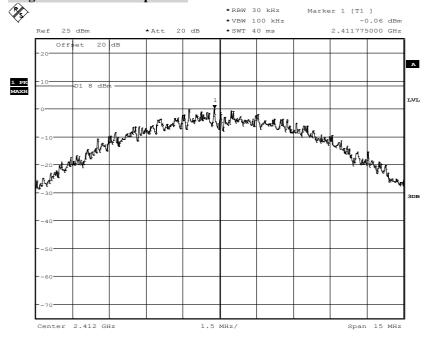
# **3. Conducted Power Spectral Density**





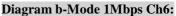
Date: 2.MAY.2016 17:48:35

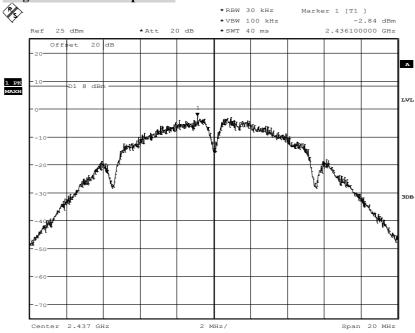
### Diagram b-Mode 11Mbps Ch1:



Date: 2.MAY.2016 17:54:51

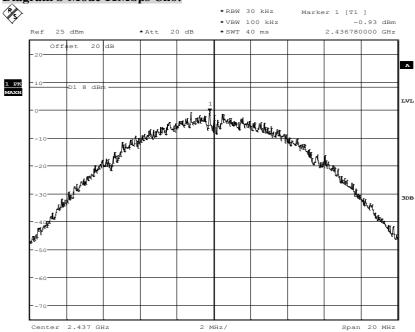






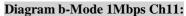
Date: 2.MAY.2016 18:25:23

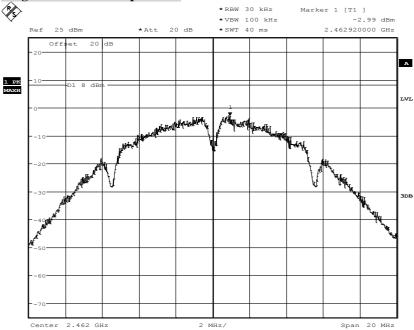
### Diagram b-Mode 11Mbps Ch6:



Date: 2.MAY.2016 18:26:14

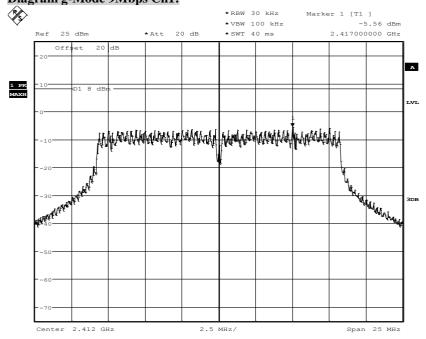






Date: 2.MAY.2016 18:42:10

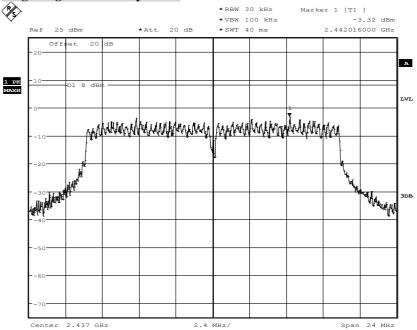
### Diagram g-Mode 9Mbps Ch1:



Date: 2.MAY.2016 17:58:26

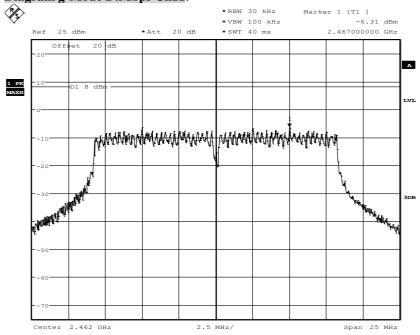






Date: 2.MAY.2016 18:27:10

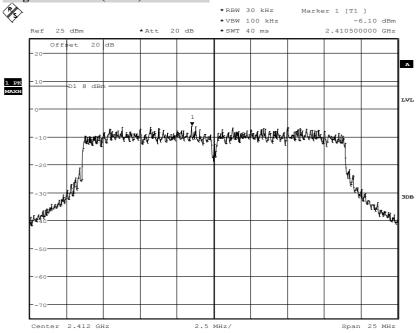
### Diagram g-Mode 24Mbps Ch11:



Date: 2.MAY.2016 18:43:35

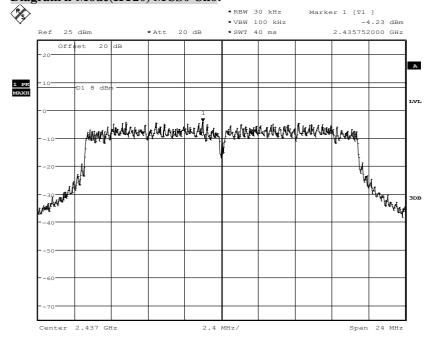






Date: 2.MAY.2016 18:10:12

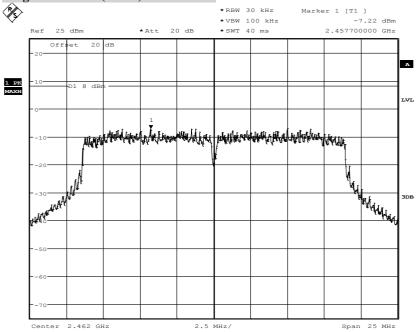
### Diagram n-Mode(HT20) MCS0 Ch6:



Date: 2.MAY.2016 18:39:31







Date: 2.MAY.2016 18:46:33



### 4. Radiated magnetic field strengths measurements (9kHz to 30MHz)

### Diagram No: 2.01\_WLAN\_b mode\_1Mbps\_Ch11\_9kHz-30 MHz

#### **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 V9.25.0

Distance correction: used accord. table, pls. see test report

Used filter: bypass

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

Test specification.: FCC 15.209/15.205; RSS-Gen., Issue 4

Operator: RIs

Operating conditions: TX-on WLAN 802.16 b-mode, BW 20 MHz channel 11; 1Mbps;

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

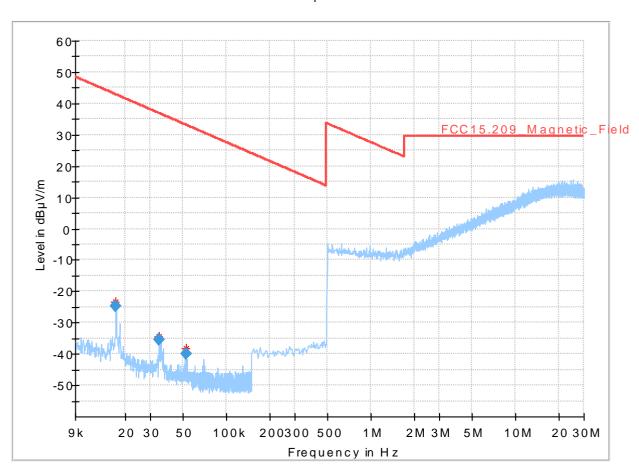
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-24.66	42.91	67.56	1000.0	0.200	100.0	Н	34.0	-58.7
0.034440	-35.57	36.86	72.42	1000.0	0.200	100.0	Н	47.0	-59.5
0.052600	-39.87	33.18	73.05	1000.0	0.200	100.0	Н	135.0	-59.7



### Diagram No: 2.02\_WLAN\_g-mode\_ 6 Mbps\_CH1\_9kHz-30 MHz

#### **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 V9.25.0

Distance correction: used accord. table, pls. see test report

Used filter: bypass

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

Test specification.: FCC 15.209/15.205; RSS-Gen., Issue 4

Operator: RIs

Operating conditions: TX-on WLAN 802.16 g-mode, BW 20 MHz channel 1; 6Mbps;

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

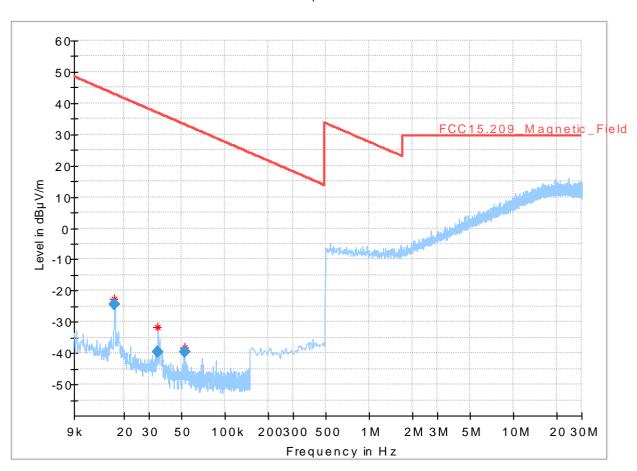
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017080	-24.47	42.95	67.42	1000.0	0.200	100.0	Н	282.0	-58.7
0.034440	-39.55	36.86	76.40	1000.0	0.200	100.0	Н	39.0	-59.5
0.052760	-39.59	33.15	72.75	1000.0	0.200	100.0	Н	333.0	-59.7



### Diagram No: 2.03\_WLAN\_n-mode\_ MCS0\_CH6\_9kHz-30 MHz

### **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 V9.25.0

Distance correction: used accord. table, pls. see test report

Used filter: bypas

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

Test specification.: FCC 15.209/15.205; RSS-Gen., Issue 4

Operator: RIs

Operating conditions: TX-on WLAN 802.16 n-mode, BW 20 MHz channel 06; Data rate MCS 0;

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

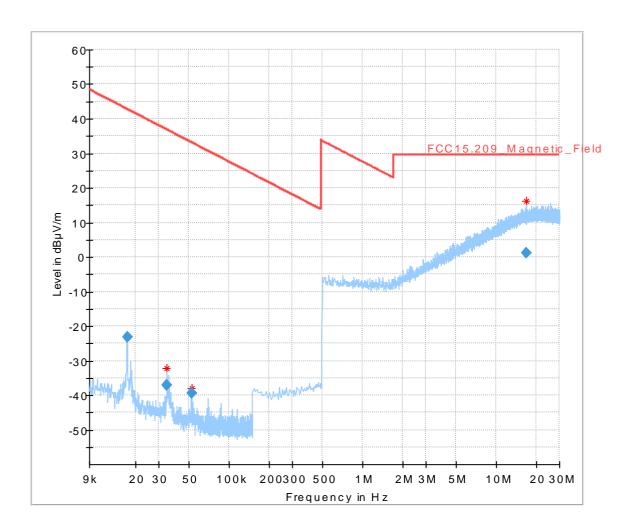
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-23.32	42.87	66.18	1000.0	0.200	100.0	Н	50.0	-58.7
0.034280	-37.18	36.90	74.07	1000.0	0.200	100.0	Н	90.0	-59.5
0.052680	-39.41	33.17	72.58	1000.0	0.200	100.0	Н	191.0	-59.7
16.862000	1.17	29.54	28.37	1000.0	10.000	100.0	V	132.0	0.3



### 5. Radiated field strengths measurements (30MHz to 1GHz)

### Diagram No: 3.01\_WLAN\_b mode\_1Mbps\_Ch11\_30 MHz - 1 GHz

#### **Common Information**

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

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: TP NLP-1200

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: APh

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.16 b-mode, BW 20 MHz channel 11; 1Mbps;

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

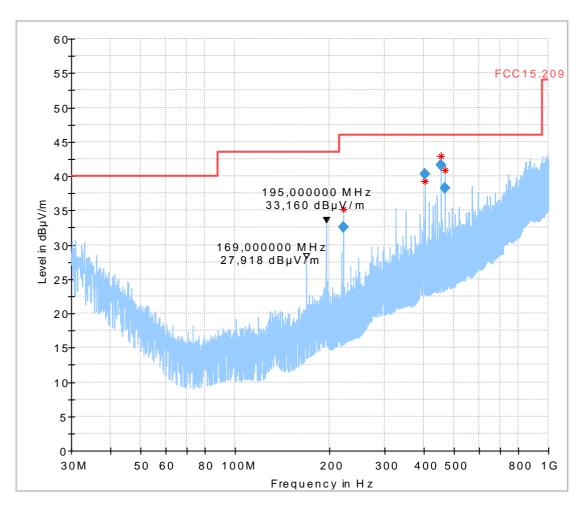
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### 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)
221.000000	32.57	46.00	13.43	1000.0	120.000	105.0	Н	95.0	90.0	12.5
402.980000	40.34	46.00	5.66	1000.0	120.000	183.0	Н	78.0	0.0	18.7
454.990000	41.59	46.00	4.41	1000.0	120.000	113.0	V	323.0	0.0	19.5
468.000000	38.32	46.00	7.68	1000.0	120.000	105.0	V	103.0	90.0	19.7



### Diagram No. 3.02\_WLAN\_g mode\_6Mbps\_Ch1\_30 MHz - 1 GHz

#### **Common Information**

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

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: TP NLP-1200

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: APh

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.16 g-mode, BW 20 MHz channel 1; 6Mbps;

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.

MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

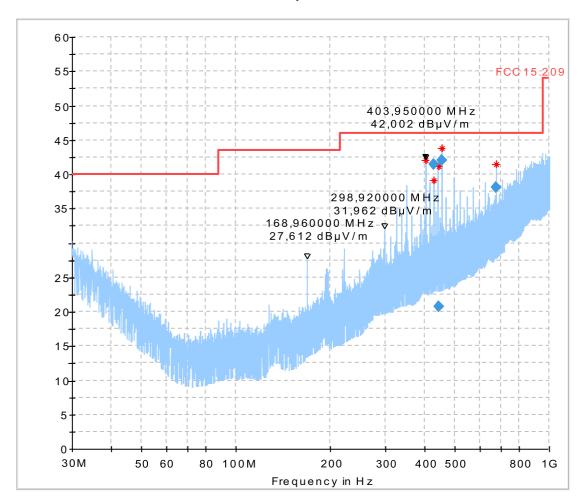
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.11

Input: Fully Charged Internal Battery





### Final\_Result

Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m )	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr · (dB)
428.990000	41.42	46.00	4.58	1000.0	120.000	105.0	V	115.0	90.0	19.3
442.780000	20.72	46.00	25.28	1000.0	120.000	259.0	V	47.0	90.0	19.4
454.980000	42.03	46.00	3.97	1000.0	120.000	109.0	V	359.0	0.0	19.5
675.980000	38.09	46.00	7.91	1000.0	120.000	109.0	Н	74.0	0.0	23.5



### Diagram No. 3.03\_WLAN\_n mode\_MCS0\_Ch6\_30 MHz - 1 GHz

#### **Common Information**

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

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: TP NLP-1200

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator: APh

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.16 n(HT20)-mode, BW 20 MHz channel 6; MCS0

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

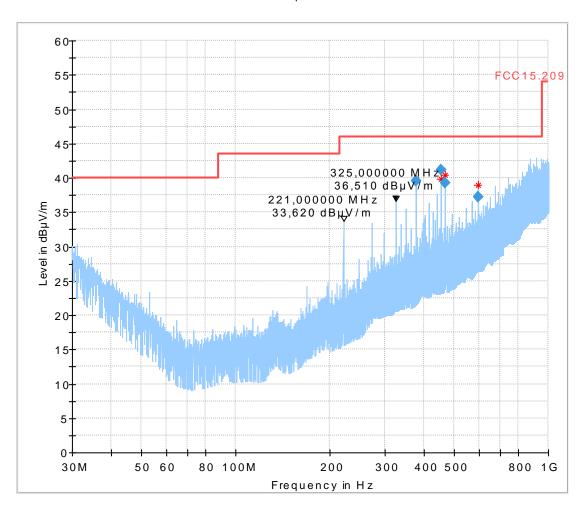
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
377.000000	39.60	46.00	6.40	1000.0	120.000	222.0	Н	84.0	0.0	17.3
454.980000	41.13	46.00	4.87	1000.0	120.000	105.0	V	127.0	90.0	19.5
467.980000	39.29	46.00	6.71	1000.0	120.000	109.0	V	10.0	0.0	19.7
598.000000	37.18	46.00	8.82	1000.0	120.000	109.0	Н	266.0	0.0	22.5



# 6. Radiated field strength measurements (1GHz to 25 GHz) Diagram No: 4.01\_WLAN\_b mode\_1Mbps\_Ch11\_1-18 GHz

#### **Common Information**

Test Description: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 b-mode, BW 20 MHz channel 11; Data rate 1 Mbps

Operator Name: KMo/APh

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

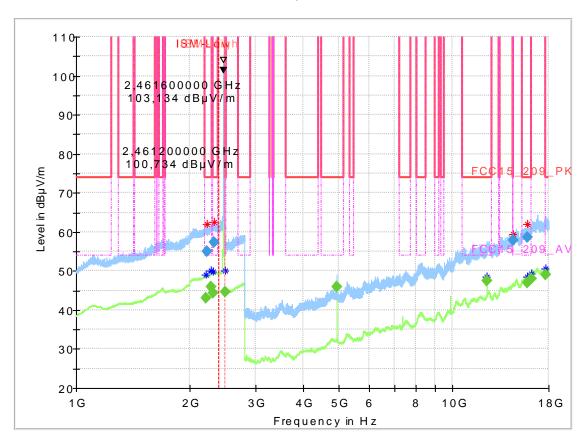
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### $F\underline{inal}\_Result$

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
2212.000000		43.10	54.00	10.90	100.0	1000.000	155.0	V	235.0
2228.320000	55.10		74.00	18.90	100.0	1000.000	155.0	V	49.0
2288.000000		46.03	54.00	7.97	100.0	1000.000	155.0	V	265.0
2310.400000		44.29	54.00	9.71	100.0	1000.000	155.0	V	73.0
2323.040000	57.24		74.00	16.76	100.0	1000.000	155.0	Н	87.0
2483.500000		44.52	54.00	9.48	100.0	1000.000	155.0	V	208.0
4924.000000		46.06	54.00	7.94	100.0	1000.000	155.0	V	148.0
12310.720000		47.56	54.00	6.44	100.0	1000.000	155.0	Н	209.0
14480.560000	57.90		74.00	16.10	100.0	1000.000	155.0	V	-18.0
15771.800000	58.57		74.00	15.43	100.0	1000.000	155.0	Н	133.0
15790.040000		46.98	54.00	7.02	100.0	1000.000	155.0	V	277.0
16174.200000		48.08	54.00	5.92	100.0	1000.000	155.0	V	169.0
17708.720000		49.09	54.00	4.91	100.0	1000.000	155.0	Н	42.0

(continuation of the "Final\_Result" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)
2212.000000	0.0	35.0
2228.320000	0.0	34.8
2288.000000	90.0	35.4
2310.400000	90.0	35.7
2323.040000	90.0	35.7
2483.500000	90.0	35.6
4924.000000	0.0	4.4
12310.720000	0.0	18.3
14480.560000	0.0	22.3
15771.800000	0.0	23.6
15790.040000	90.0	23.7
16174.200000	90.0	24.7
17708.720000	90.0	25.7



### Diagram No: 4.01a\_WLAN\_b mode\_1Mbps\_Ch11\_18-25 GHz

#### **Common Information**

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247, 15.205&15.209 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: TX mode continuous CH11-bMode-1MBit

Operator Name: TFr

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

 P/N:
 911350013

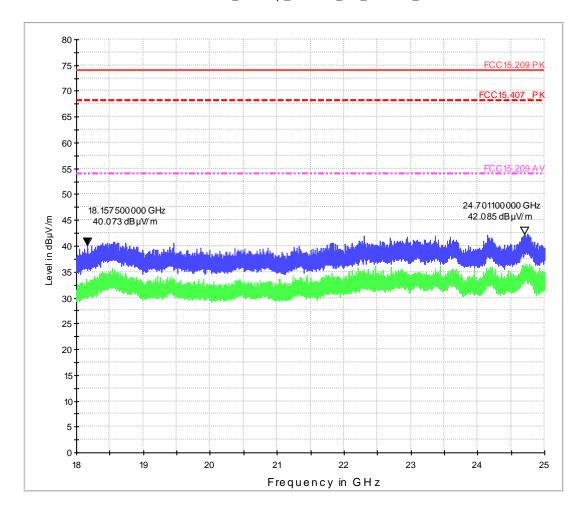
 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

FCC\_Sweep\_15.247\_18\_25GHz\_Pre





### Diagram No: 4.02\_WLAN 802.16 \_g-mode\_\_6Mbps\_CH1\_1-18 GHz

#### **Common Information**

Test Description: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Environmental Conditions: Humidity:33 %rH; Temperature: 21°C

Operation mode: TX-on WLAN 802.16 g-mode, BW 20 MHz channel 1; Data rate 6 Mbps

Operator Name: KMo/APh

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

 P/N:
 911350013

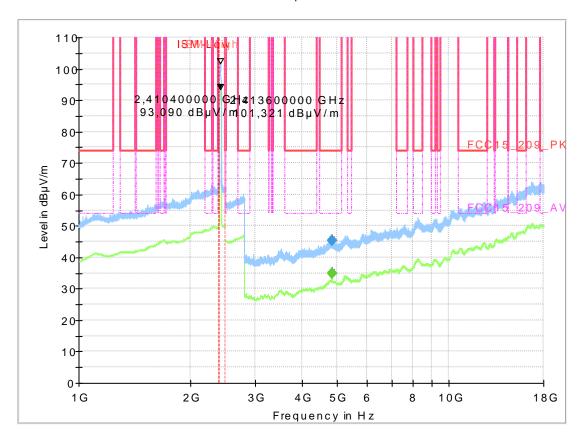
 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

#### Full Spectrum



#### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/ m)	Limit (dBµV/m )	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Height (cm)	Pol	Azimut h (deg)	Elevatio n (deg)	Corr (dB)
4824.000000		34.76	54.00	19.24	100.0	1000.000	155.0	V	148.0	0.0	4.8
4824.000000	45.49		74.00	28.51	100.0	1000.000	155.0	V	162.0	0.0	4.8



### Diagram No: 4.02a\_WLAN 802.16 \_g-mode\_\_6Mbps\_CH1\_18-25 GHz

#### **Common Information**

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247, 15.205&15.209 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: TX mode continuous CH1-gMode-6MBit

Operator Name: TFr

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

 P/N:
 911350013

 S/N:
 Z16P00015

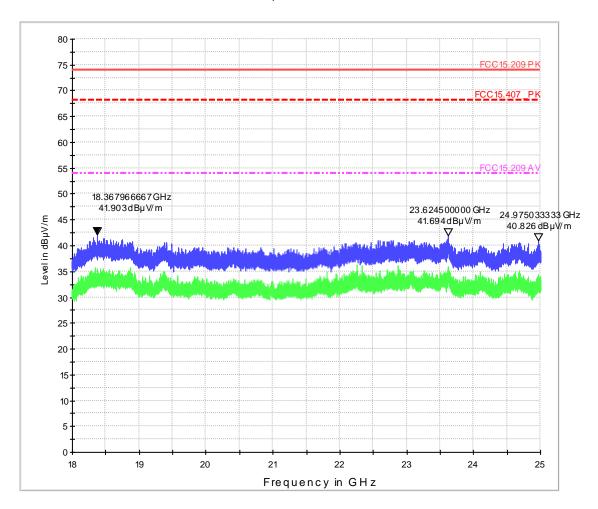
 HW Version:
 Beta HW Version

 SW Version:
 WEC7

SW Version: WEC Firmware Version: 2.16

Input: Fully Charged Internal Battery

#### FCC\_Sweep\_15.247\_18\_25GHz\_Pre





### Diagram No: 4.03\_WLAN 802.16\_n-mode \_MCS0\_CH6\_1-18 GHz

#### **Common Information**

Test Description: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Environmental Conditions: Humidity:33 %rH; Temperature: 21°C

Operation mode: TX-on WLAN 802.16 n(HT20)-mode, BW 20 MHz channel 6; Data rate MCS0 Mbps

Operator Name: MF

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

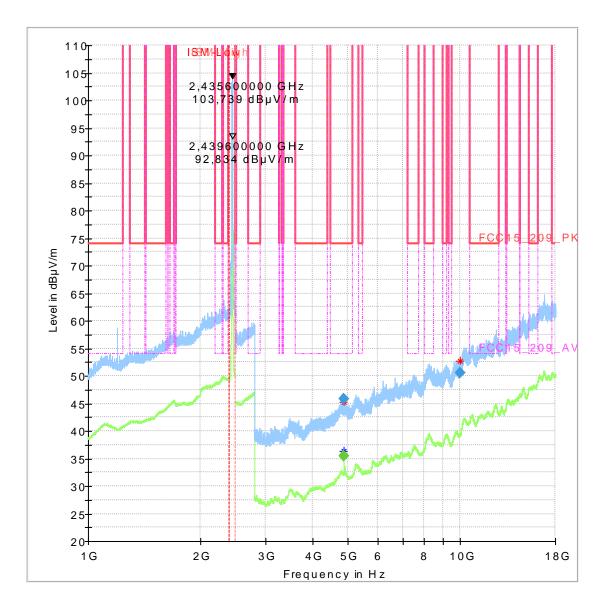
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### Final Result

Frequency (MHz)	MaxPea k (dBμV/ m)	Average (dBµV/ m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimut h (deg)	Elevati on (deg)	Corr. (dB)
4874.000000		35.45	54.00	18.55	100.0	1000.000	155.0	V	45.0	0.0	4.7
4874.000000	45.81		74.00	28.19	100.0	1000.000	155.0	V	42.0	0.0	4.7
10007.040000	50.50		150.00	99.50	100.0	1000.000	155.0	V	330.0	0.0	14.6



### Diagram No: 4.03a\_WLAN 802.16\_n-mode \_MCS0\_CH6\_18-25 GHz

**Common Information** 

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247, 15.205&15.209 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: TX mode continuous CH6-nMode-MCS0

Operator Name: TF1

Comment: Channel no. low/middle/high

### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

 P/N:
 911350013

 S/N:
 Z16P00015

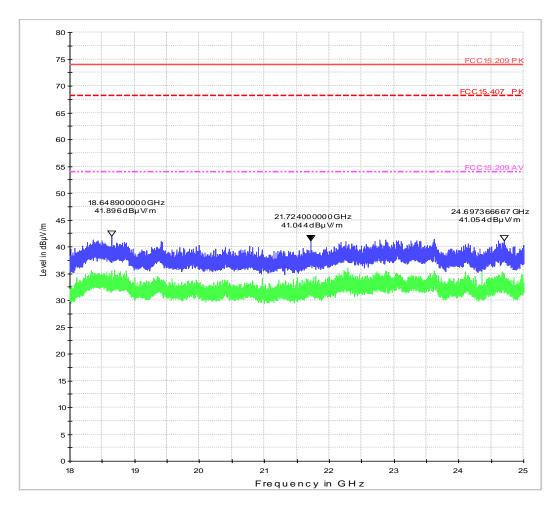
 HW Version:
 Beta HW Version

 SW Version:
 WEC7

Firmware Version: WEC 2.16

Input: Fully Charged Internal Battery

FCC\_Sweep\_15.247\_18\_25GHz\_Pre





### 7. Radiated Band-Edge Measurements accord. §15.209 & §15.205

### 7.1. Channel 1 b-Mode (left band edge)

### Diagram No: 9.01\_BE\_Low\_b-mode\_BW 20 MHz CH1\_1Mbps

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 b-mode, BW 20 MHz channel 1; Data rate 1Mbps

Operator Name: MFr

Environmental Conditions Humidity: 38%rH; Temperature: 22°C

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

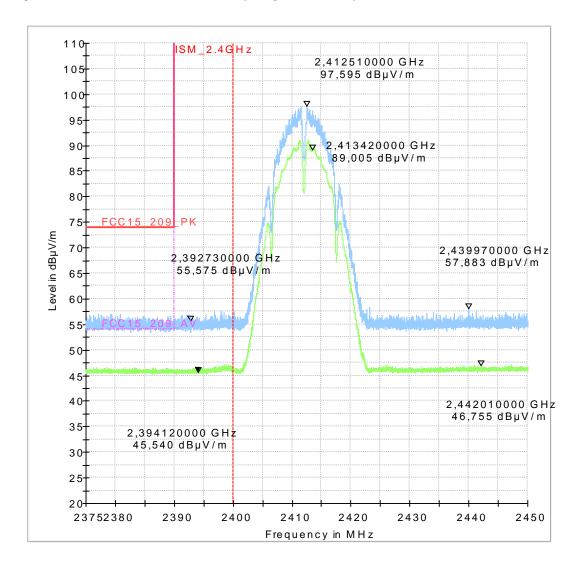
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### 7.2. Channel 11 b-Mode (right band edge)

### Diagram No: 9.02\_BE\_High\_b-mode\_BW 20 MHz CH11\_1Mbps

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 b-mode, BW 20 MHz channel 11; Data rate 1 Mbps

Environment Conditions Humidity: 32%rH; Temperature: 22°C

Operator Name: KMo

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

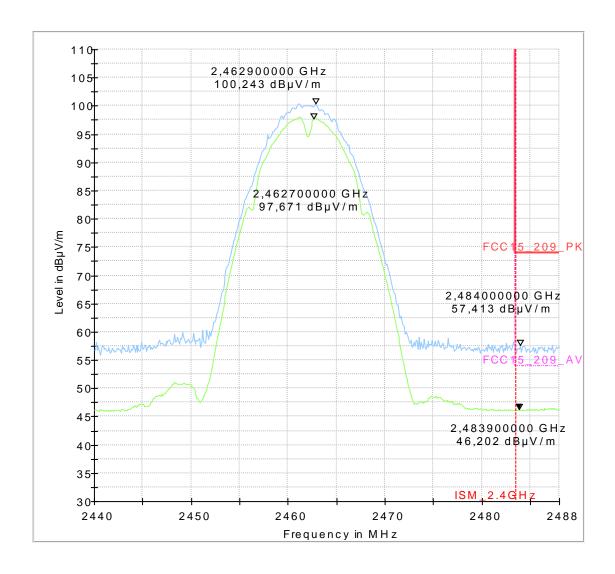
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### 7.3. Channel 1 g-Mode (left band edge)

### Diagram No: 9.03\_BE\_Low\_g-mode\_BW 20 MHz CH1\_6Mbps

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 g-mode, BW 20 MHz channel 1; Data rate 6Mbps

Operator Name: KMo

Environmental Conditions Humidity: 38%rH; Temperature: 22°C

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

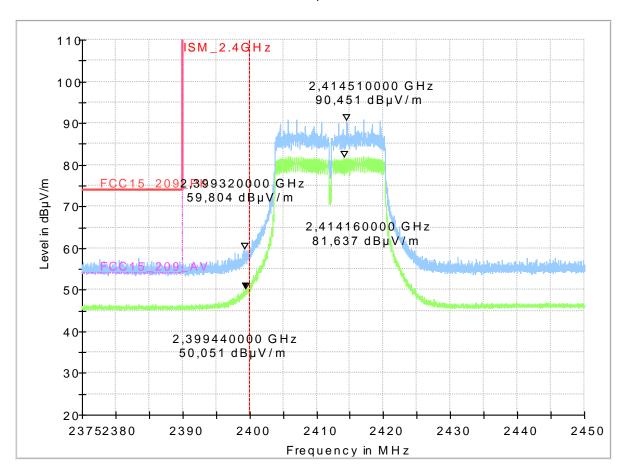
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16a

Input: Fully Charged Internal Battery





### 7.4. Channel 11 g-Mode (right band edge)

### Diagram No: 9.07\_BE\_High\_Ch11\_gMode\_6MBit

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 g-mode, BW 20 MHz channel 11; Data rate 6 Mbps

Environment Conditions Humidity: 34%rH; Temperature: 23°C

Operator Name: Al

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

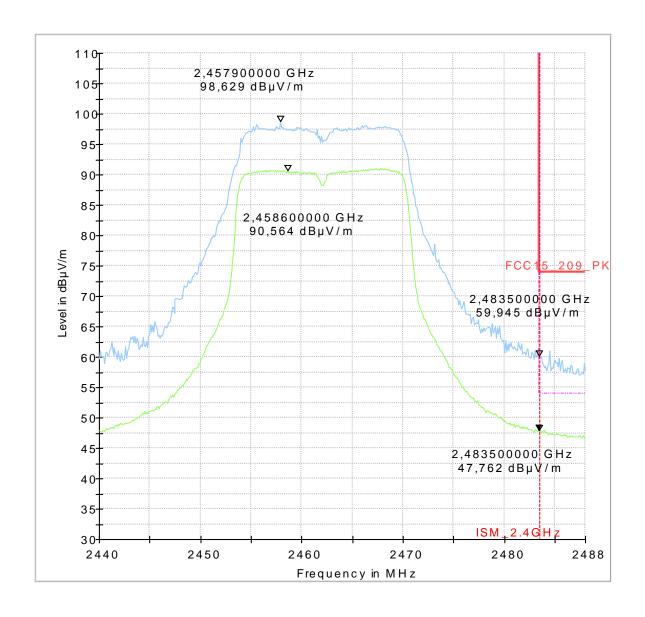
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### 7.5. Channel 1 n-Mode(HT20) (left band edge)

### Diagram No: 9.05\_BE\_Low\_n-mode\_BW 20 MHz CH1\_MCS0

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 n-mode, BW 20 MHz channel 1; Data rate MCS0

Operator Name: KMo

Environmental Conditions Humidity: 38%rH; Temperature: 22°C

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

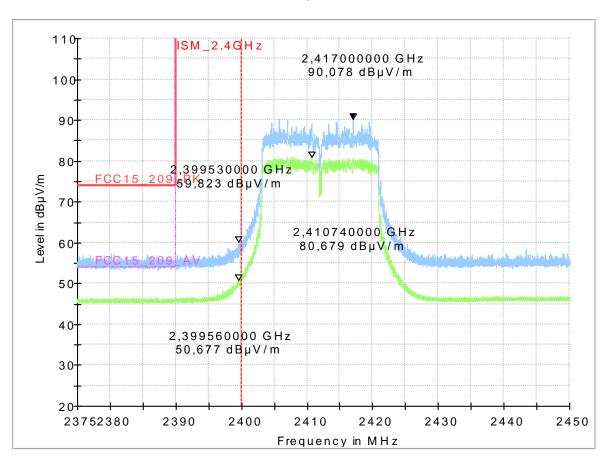
 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





### 7.6. Channel 11 n-Mode(HT20) (right band edge)

### Diagram No: 9.8\_BE\_High\_n-mode\_BW 20 MHz CH11\_MCS0

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operation mode: TX-on WLAN 802.16 n(HT20)-mode, BW 20 MHz channel 11; Data rate MCS0

Environment Conditions Humidity: 28%rH; Temperature: 23°C

Operator Name: Al

#### **EUT Information**

Manufacturer: Datalogic ADCL S.r.l. MODEL: JOYA TOUCH

EuT Type: P00AN04HL0GT0W7-GRR

 P/N:
 911350013

 S/N:
 Z16P00015

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

