

Annex 1: Diagramms to PARTIAL TEST REPORT

No.: 2-20842790-15-8b

According to: FCC Regulations Part 15.407, Part 15.207

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

> > for

Datalogic ADC S.r.l.
JOYA TOUCH
Type: B00AN00HL0GT0W7-GRR

FCC-ID: U4GJNGW IC: 3862E-JNGW PMN: JOYA TOUCH HVIN: JNG B GUN

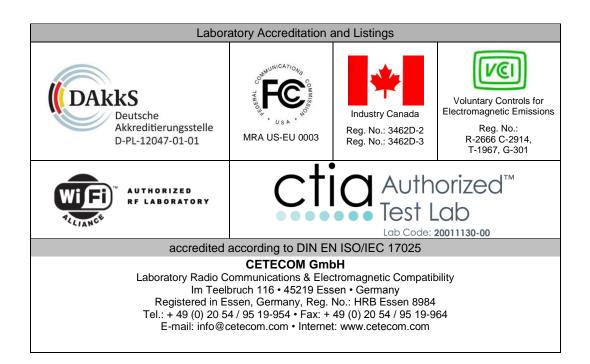




Table of contents

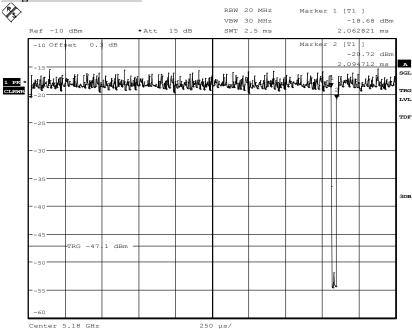
1. DUTY-CYCLE OF TRANSMITTER	3
2. MAXIMUM PEAK CONDUCTED OUTPUT POWER	11
2.1. 20MHz signal BW	11
3. CONDUCTED POWER SPECTRAL DENSITY	
4. RADIATED MAGNETIC FIELD STRENGTHS MEASUREMENTS (9KHZ TO 30MHZ)	
5. RADIATED FIELD STRENGTHS MEASUREMENTS (30MHZ TO 1GHZ)	41
6. RADIATED FIELD STRENGTH MEASUREMENTS (1GHZ TO 40GHZ)	50
7. RADIATED BAND-EDGE MEASUREMENTS ACCORD. §15.209 & §15.205	68
7.1. Channel 36 a-Mode (left band edge)	68
7.2. Channel 64 a-Mode (right band edge)	69
7.3. Channel 100 a-Mode (left band edge)	
7.4. Channel 140 a-Mode (right band edge)	71
7.5. Channel 36 n-Mode(HT20) (left band edge)	
7.6. Channel 64 n-Mode(HT20) (right band edge)	
7.7. Channel 100 n-Mode(HT20) (left band edge)	
7.8. Channel 140 n-Mode(HT20) (right band edge)	
7.9. Channel 149 n-Mode(HT20) (left band edge)	
7.10. Channel 165 n-Mode(HT20) (right band edge)	



1. Duty-Cycle of Transmitter

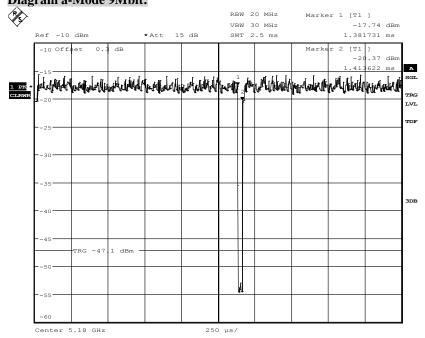
The characteristics of the implemented test mode was checked on middle channel no. 36 (a-Mode and n-Mode HT20) only.

Diagram a-Mode 6Mbit:



Date: 8.JUN.2016 11:00:44

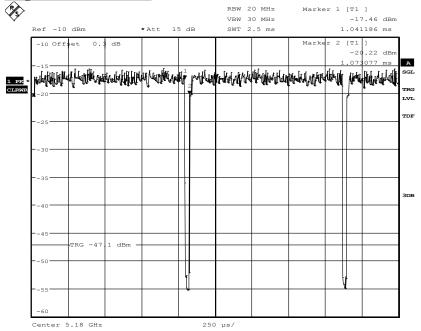
Diagram a-Mode 9Mbit:



Date: 8.JUN.2016 11:01:44

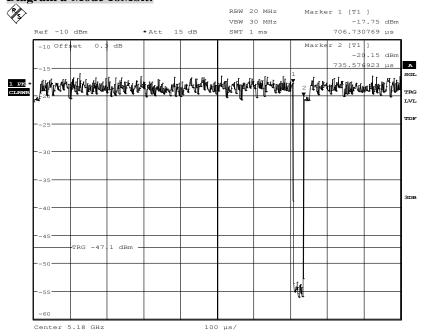






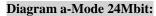
Date: 8.JUN.2016 11:02:52

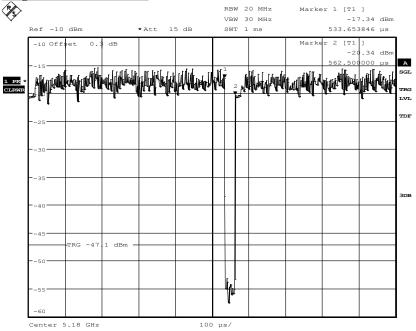
Diagram a-Mode 18Mbit:



Date: 8.JUN.2016 11:03:52

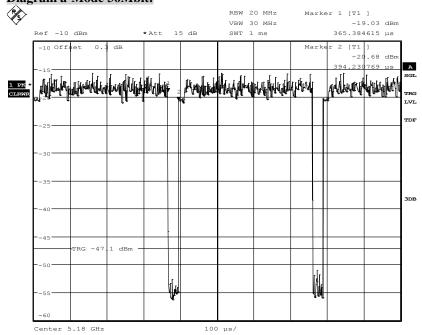






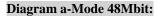
Date: 8.JUN.2016 11:04:48

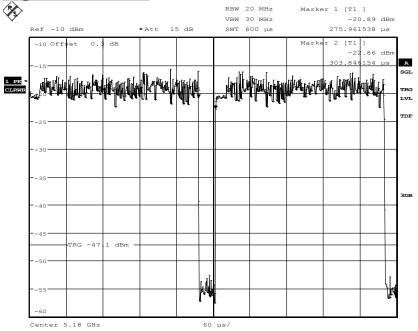
Diagram a-Mode 36Mbit:



Date: 8.JUN.2016 11:06:16

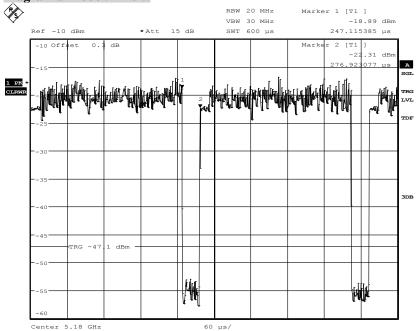






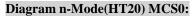
Date: 8.JUN.2016 10:58:55

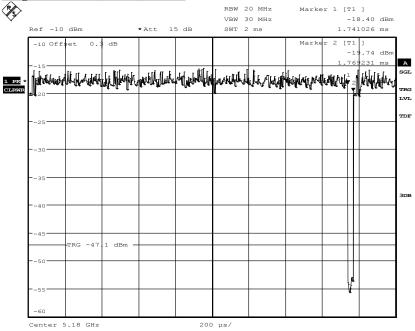
Diagram a-Mode 54Mbit:



Date: 8.JUN.2016 10:57:42

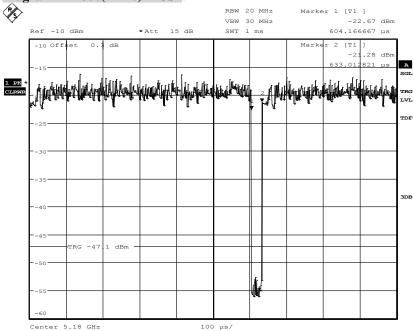






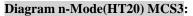
Date: 8.JUN.2016 11:07:42

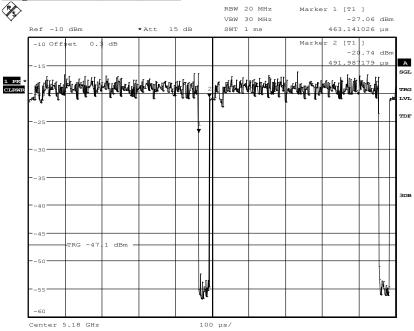
Diagram n-Mode(HT20) MCS2:



Date: 8.JUN.2016 11:25:25

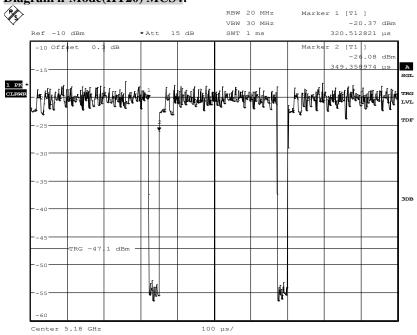






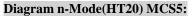
Date: 8.JUN.2016 11:29:38

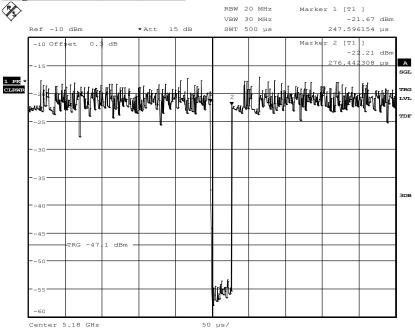
Diagram n-Mode(HT20) MCS4:



Date: 8.JUN.2016 11:26:41

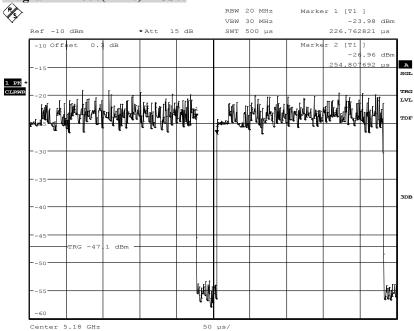






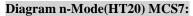
Date: 8.JUN.2016 11:35:21

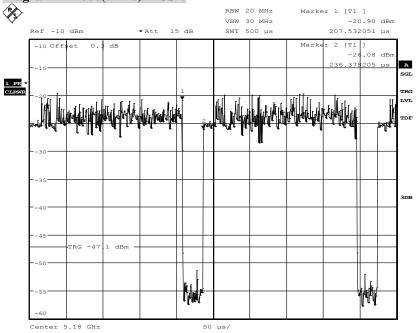
Diagram n-Mode(HT20) MCS6:



Date: 8.JUN.2016 11:33:35







Date: 8.JUN.2016 11:32:15



2. Maximum Peak Conducted Output Power

2.1. 20MHz signal BW

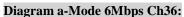
Operational bands:	U-NII 1			U-NII-2A			U-NII 2C			U-NII-3			
Channel no.:	Channel 36	Channel 40	Channel 48	Channel 52	Channel 56	Channel 64	Channel 100	Channel 116	Channel 140	Channel 149	Channel 157	Channel 165	
Chaille no	(5180MHz)	(5200MHz)	(5240MHz)	5260MHz	(5280MHz)	(5320MHz)	(5500MHz)	(5580MHz)	(5700MHz)	(5745MHz)	(5785MHz)	(5825MHz)	
a-Mode/(90% Power level)													
6Mbit	14,33	14,32	14,32	13,83	13,74	12,32	12,05	11,95	11,13	11,76	12,50	12,73	
9Mbit	14,32	14,35	14,31	13,81	13,76	12,25	12,03	11,93	11,13	11,78	12,49	12,75	
12Mbit	14,35	14,39	14,30	13,82	13,80	12,17	12,06	11,96	11,18	11,84	12,53	12,79	
18Mbit	14,29	14,34	14,24	13,75	13,73	12,16	11,98	12,00	11,11	11,77	12,47	12,74	
24Mbit	14,39	14,46	14,35	13,88	13,85	12,13	12,13	12,00	11,24	11,91	12,60	12,82	
36Mbit	14,25	14,32	14,18	13,69	13,68	11,96	11,99	11,94	11,05	11,85	12,42	12,69	
48Mbit	14,40	14,32	14,15	13,65	12,64	11,97	12,01	11,86	11,07	11,83	12,44	12,71	
54MBit	12,89	12,80	12,68	11,52	11,48	10,95	10,92	11,17	10,38	10,63	11,21	11,72	
	n(HT20)-Mode/(90% Power level)												
MCS0 -6.5Mbps	14,20	14,32	14,26	13,70	13,74	11,95	12,06	11,85	11,13	11,78	12,53	12,69	
MCS1 - 13Mbps	13,47	13,829	13,84	13,26	13,59	11,82	12,02	11,74	11,09	11,65	12,40	12,62	
MCS2 - 19.5Mbps	14,13	14,34	14,12	13,58	13,67	11,79	12,04	11,70	11,07	11,65	12,37	12,67	
MCS3 - 26Mbps	13,83	14,46	14,16	13,25	12,63	11,83	12,15	11,73	11,18	11,72	12,40	12,77	
MCS4 -39Mbps	12,37	12,44	13,04	11,35	11,49	10,80	10,56	10,93	9,82	10,53	11,06	11,02	
MCS5 - 52MBps	12,10	12,36	12,53	11,35	11,48	10,79	10,58	10,94	9,82	10,52	11,12	11,01	
MCS6 - 58.5MBps	9,22	9,45	9,67	9,24	9,30	8,82	8,32	9,27	8,17	8,19	8,74	9,23	
MCS7 - 65MBps	9,15	9,38	9,67	9,20	9,32	8,84	8,33	8,81	8,09	8,22	8,75	9,19	
Operational bands:	Operational hands: U-NII 1		U-NII-2A			U-NII 2C			U-NII 3				
·	(Outdoor i	(Outdoor use: EIRP-Limit of 21dBm)			0 IVII 2A			5 Z			5 11115		
FCC-Limits [dBm]	24,00			23,98			23,98			30,00			
[us]													
Limit Check:		Limit Check:											
Highest conducted power value													
over channels and	14,46			13,9			12,2			12,8			
modulations:													
Margin to Limit:	9,54			10,10			11,83			17,18			
Declared antenna Gain:	5,88			5,88			5,88			5,88			
Verdict:	pass			pass			pass			pass			

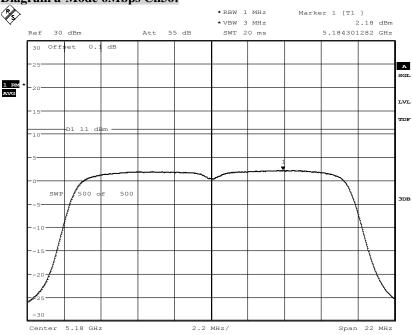
Remarks:

- 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.) The above values are inclusive Duty cycle correction factors.



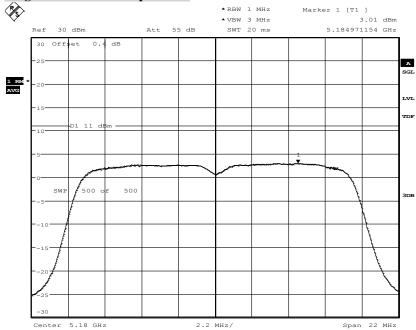
3. Conducted Power Spectral Density





Date: 9.JUN.2016 10:43:39

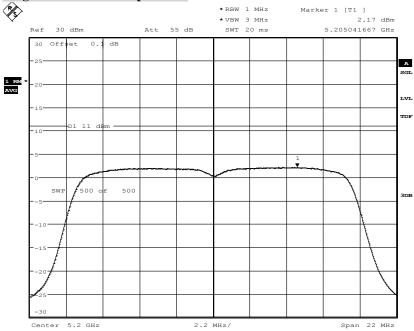
Diagram a-Mode 48Mbps Ch36:



Date: 9.JUN.2016 10:46:54

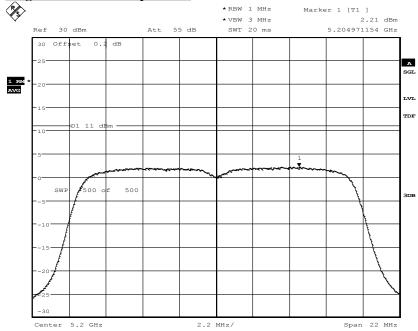






Date: 9.JUN.2016 10:51:21

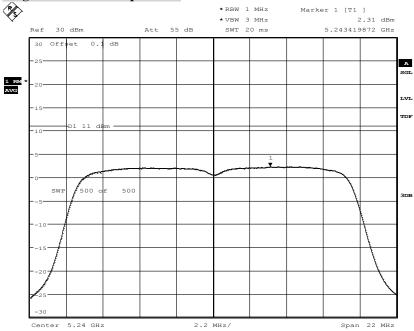
Diagram a-Mode 24Mbps Ch40:



Date: 9.JUN.2016 10:54:13

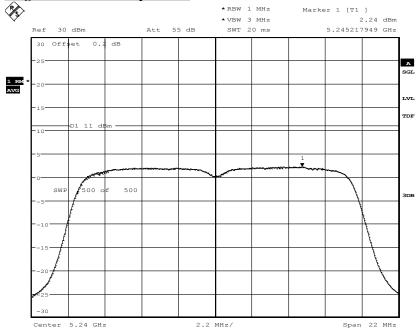






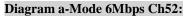
Date: 9.JUN.2016 10:59:05

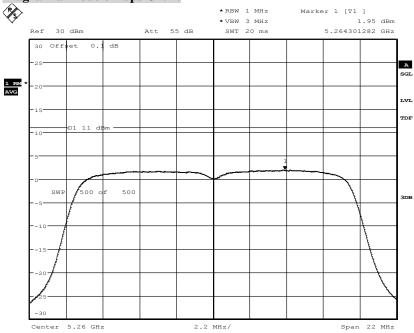
Diagram a-Mode 24Mbps Ch48:



Date: 9.JUN.2016 10:56:14

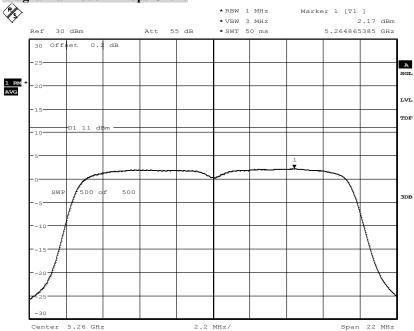






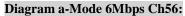
Date: 9.JUN.2016 11:03:10

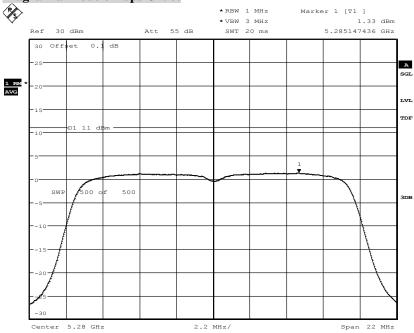
Diagram a-Mode 24Mbps Ch52:



Date: 9.JUN.2016 11:33:49

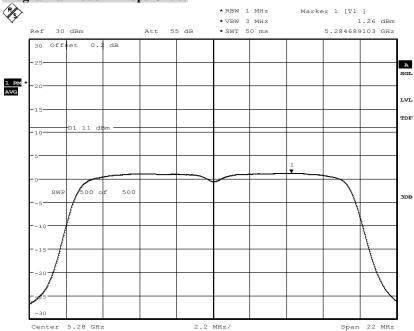






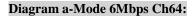
Date: 9.JUN.2016 11:07:01

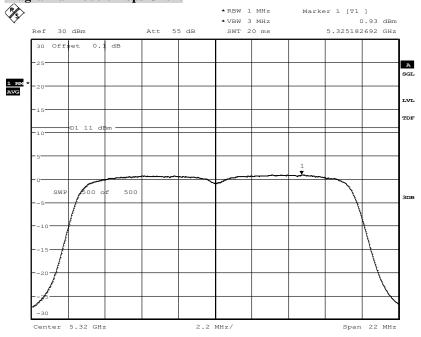
Diagram a-Mode 24Mbps Ch56:



Date: 9.JUN.2016 11:35:25

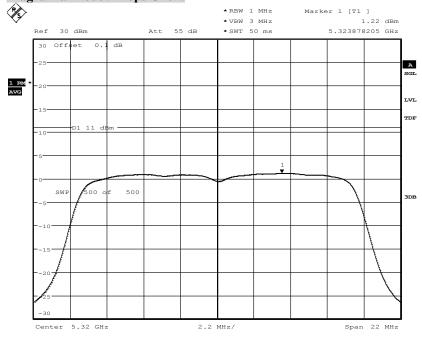






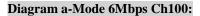
Date: 9.JUN.2016 11:08:58

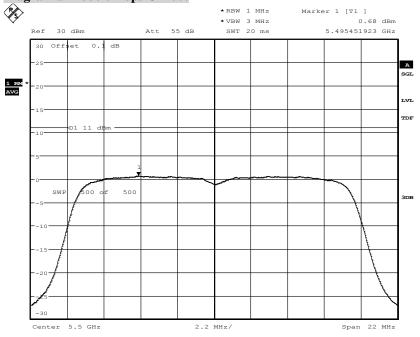
Diagram a-Mode 9Mbps Ch64:



Date: 9.JUN.2016 11:47:36

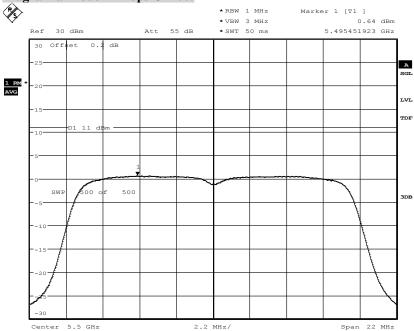






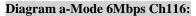
Date: 9.JUN.2016 11:12:11

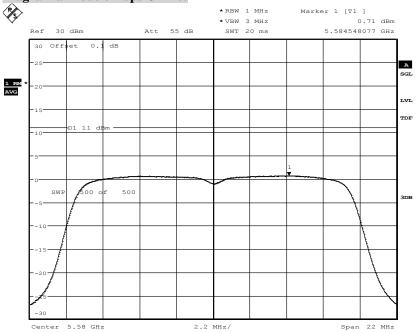
Diagram a-Mode 24Mbps Ch100:



Date: 9.JUN.2016 11:31:06

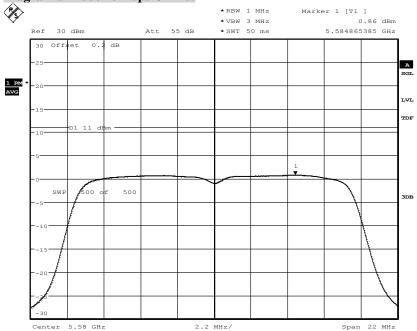






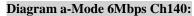
Date: 9.JUN.2016 11:15:38

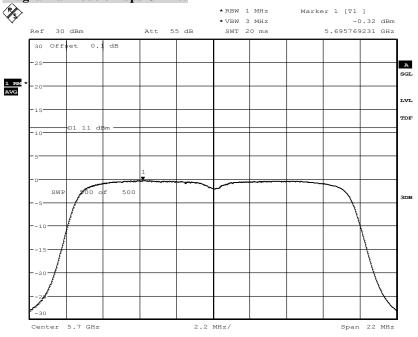
Diagram a-Mode 18Mbps Ch116:



Date: 9.JUN.2016 11:44:06

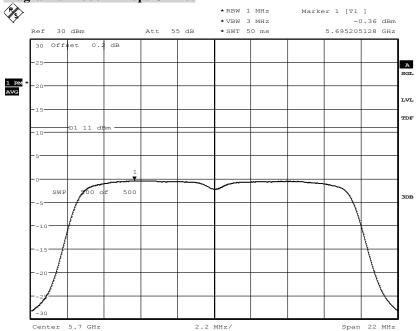






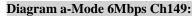
Date: 9.JUN.2016 11:20:02

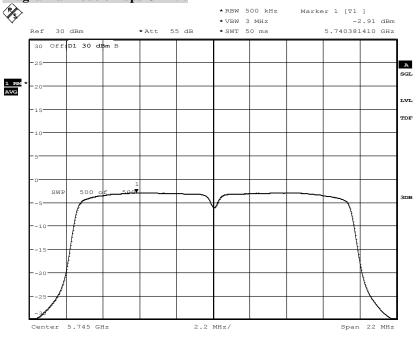
Diagram a-Mode 24Mbps Ch140:



Date: 9.JUN.2016 11:27:37

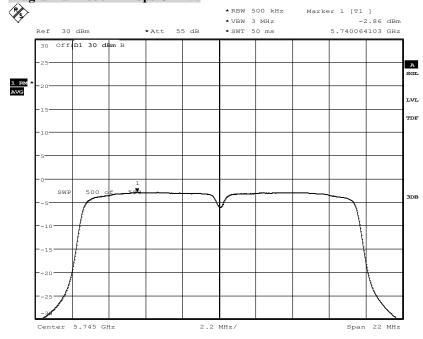






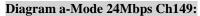
Date: 9.JUN.2016 13:57:05

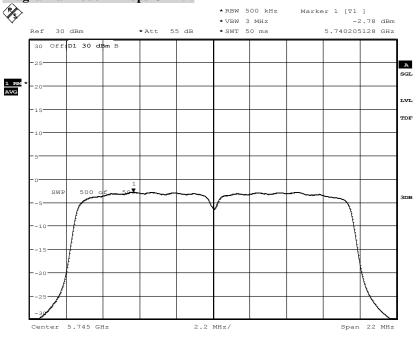
Diagram a-Mode 12Mbps Ch149:



Date: 9.JUN.2016 13:41:26

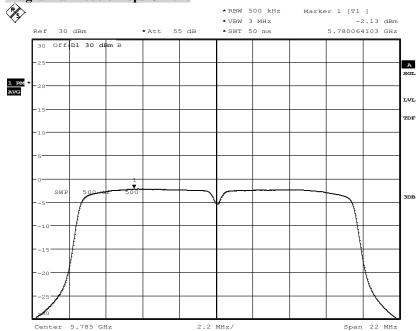






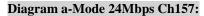
Date: 9.JUN.2016 13:54:18

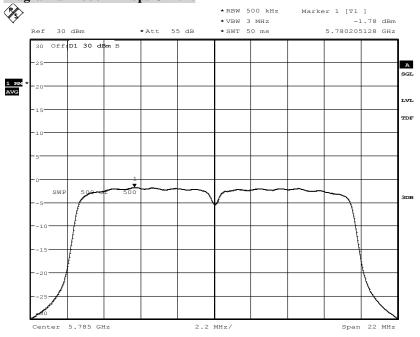
Diagram a-Mode 6Mbps Ch157:



Date: 9.JUN.2016 13:38:54

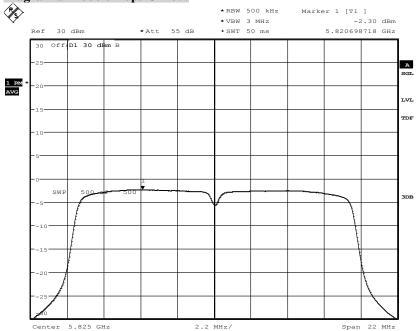






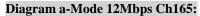
Date: 9.JUN.2016 13:51:35

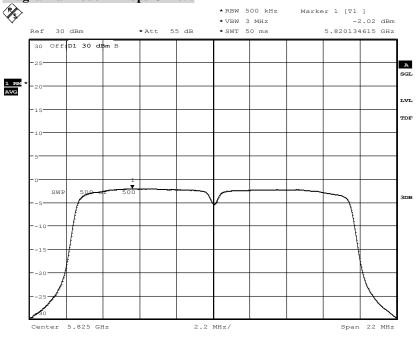
Diagram a-Mode 6Mbps Ch165:



Date: 9.JUN.2016 13:34:55

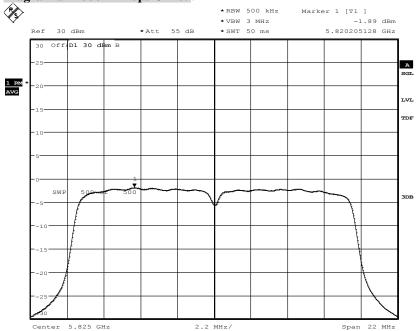






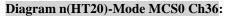
Date: 9.JUN.2016 13:43:05

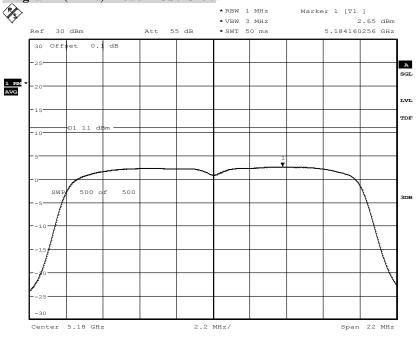
Diagram a-Mode 24Mbps Ch165:



Date: 9.JUN.2016 13:47:20

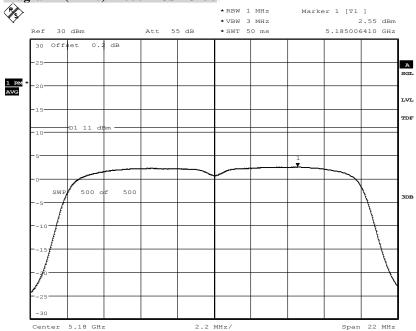






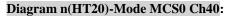
Date: 9.JUN.2016 11:50:20

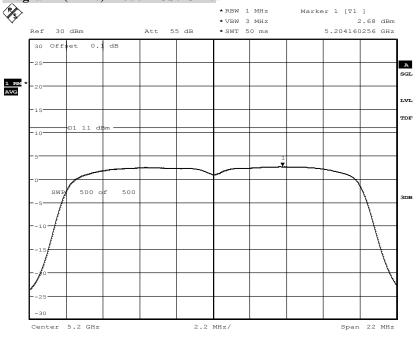
Diagram n(HT20)-Mode MCS2 Ch36:



Date: 9.JUN.2016 12:23:39

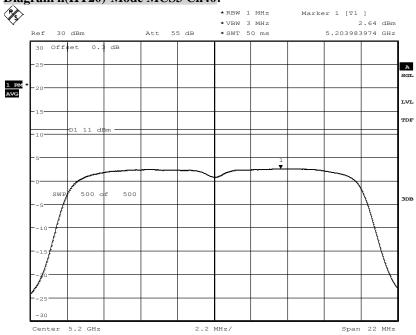






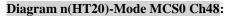
Date: 9.JUN.2016 11:51:53

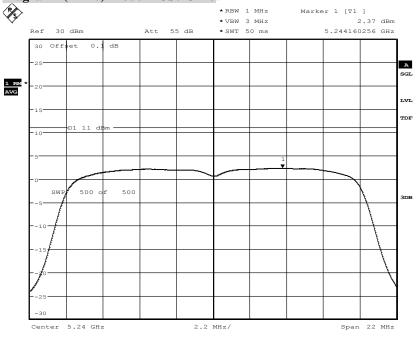
Diagram n(HT20)-Mode MCS3 Ch40:



Date: 9.JUN.2016 12:20:16

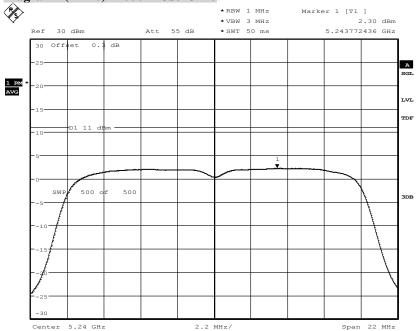






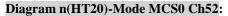
Date: 9.JUN.2016 11:53:16

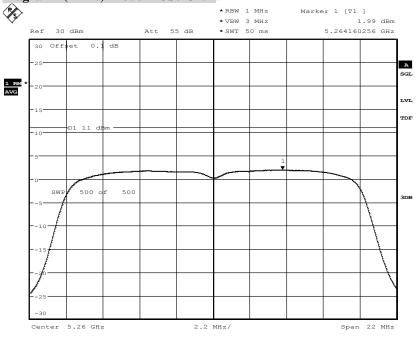
Diagram n(HT20)-Mode MCS3 Ch48:



Date: 9.JUN.2016 12:18:35

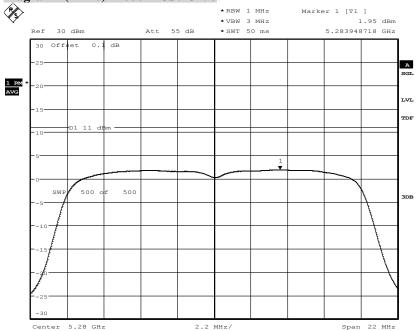






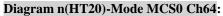
Date: 9.JUN.2016 11:55:41

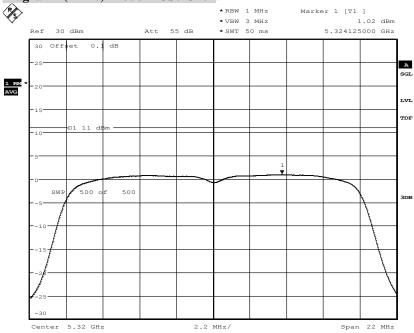
Diagram n(HT20)-Mode MCS0 Ch56:



Date: 9.JUN.2016 11:57:17

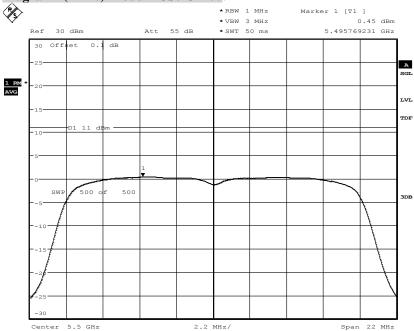






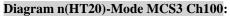
Date: 9.JUN.2016 11:59:04

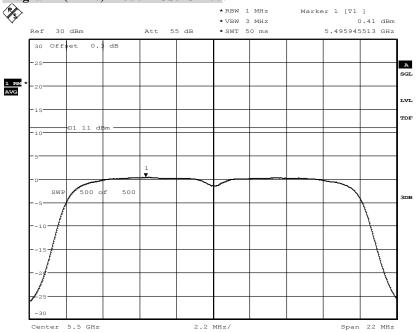
Diagram n(HT20)-Mode MCS0 Ch100:



Date: 9.JUN.2016 12:01:02

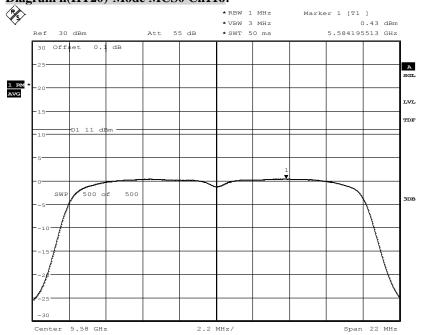






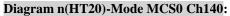
Date: 9.JUN.2016 12:14:28

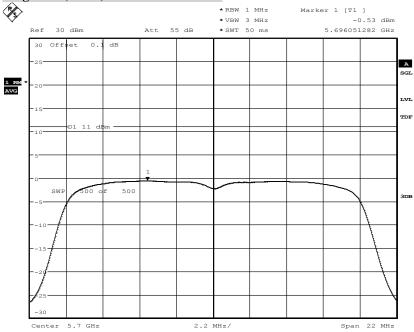
Diagram n(HT20)-Mode MCS0 Ch116:



Date: 9.JUN.2016 12:03:37

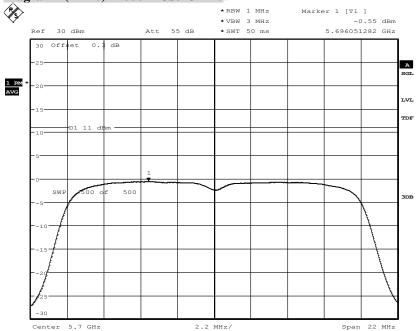






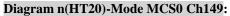
Date: 9.JUN.2016 12:05:34

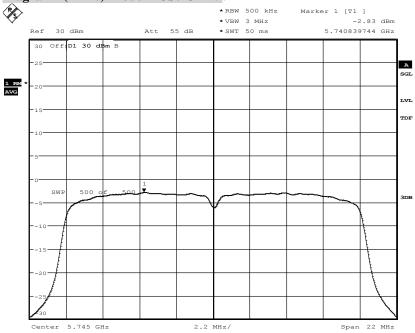
Diagram n(HT20)-Mode MCS3 Ch140:



Date: 9.JUN.2016 12:11:29

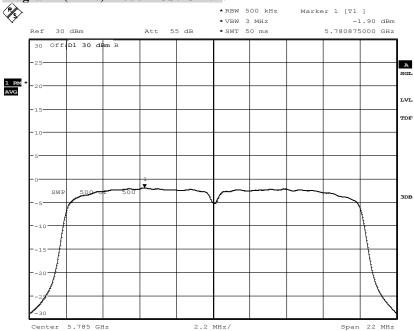






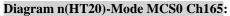
Date: 9.JUN.2016 12:27:04

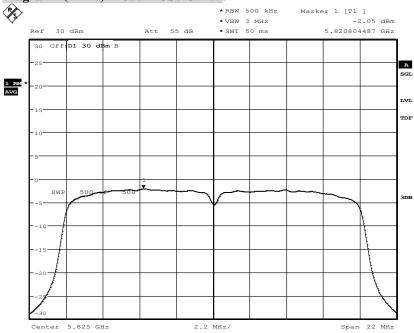
Diagram n(HT20)-Mode MCS0 Ch157:



Date: 9.JUN.2016 12:29:22

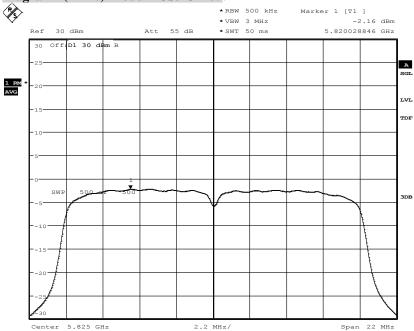






Date: 9.JUN.2016 12:31:12

Diagram n(HT20)-Mode MCS3 Ch165:



Date: 9.JUN.2016 12:33:11



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

Diagram No: 2.07_WLAN_a mode_6Mbps_Ch40_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: Mr

Operating conditions: TX-on WLAN 802.11 a-mode, BW 20 MHz channel 140; 6Mbps;

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

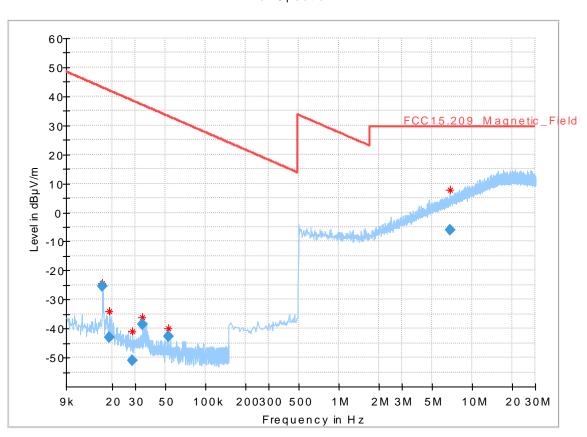
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

Full Spectrum





$F\underline{inal}_Result$

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.016920	-25.45	43.03	68.47	1000.0	0.200	100.0	Н	342.0	-58.7
0.019080	-43.03	41.99	85.01	1000.0	0.200	100.0	Н	16.0	-58.9
0.028360	-51.17	38.54	89.72	1000.0	0.200	100.0	Н	277.0	-59.4
0.033880	-38.57	37.00	75.57	1000.0	0.200	100.0	Н	11.0	-59.5
0.053000	-42.57	33.11	75.69	1000.0	0.200	100.0	Н	225.0	-59.7
6.818000	-6.06	29.54	35.60	1000.0	10.000	100.0	Н	90.0	-7.6



Diagram No: 2.08_WLAN_a mode_6Mbps_Ch140_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: Mr

Operating conditions: TX-on WLAN 802.11 a-mode, BW 20 MHz channel 140; 6Mbps;

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

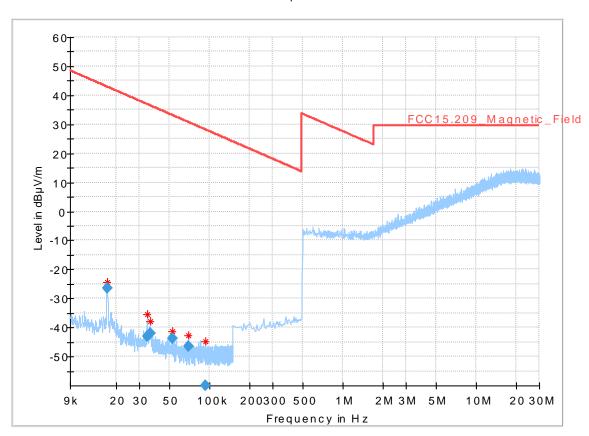
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

Full Spectrum





$F\underline{inal}_Result$

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017000	-26.56	42.99	69.55	1000.0	0.200	100.0	Н	174.0	-58.7
0.034200	-43.03	36.92	79.95	1000.0	0.200	100.0	Н	129.0	-59.5
0.035800	-42.02	36.52	78.54	1000.0	0.200	100.0	Н	222.0	-59.5
0.052840	-43.82	33.14	76.96	1000.0	0.200	100.0	Н	63.0	-59.7
0.069960	-46.66	30.70	77.37	1000.0	0.200	100.0	Н	144.0	-59.8
0.093800	-59.96	28.16	88.12	1000.0	0.200	100.0	V	174.0	-59.9



Diagram No: 2.10_WLAN_n(HT20) mode_MCS0_Ch40_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: TP NLP-1200

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:

Operating conditions: TX-on WLAN 802.11 n-mode, BW 20 MHz channel 40; MCS0;

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

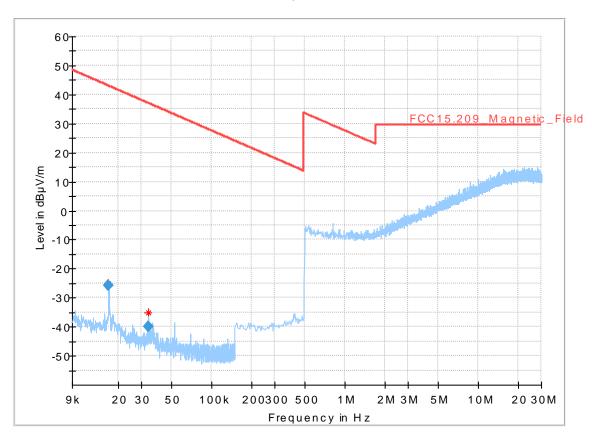
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

Full Spectrum



Final Result

Frequency (MHz)	RMS (dBµV/m)	V/m) (dBµV/m)		Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.016920	-25.60	43.03	68.62	1000.0	0.200	100.0	Н	51.0	-58.7
0.033800	-39.90	37.02	76.92	1000.0	0.200	100.0	Н	183.0	-59.5



Diagram No: 2.11_WLAN_n(HT20) mode_MCS0_Ch100_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: TP NLP-1200

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:

Operating conditions: TX-on WLAN 802.11 n-mode, BW 20 MHz channel 100; MCS0;

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

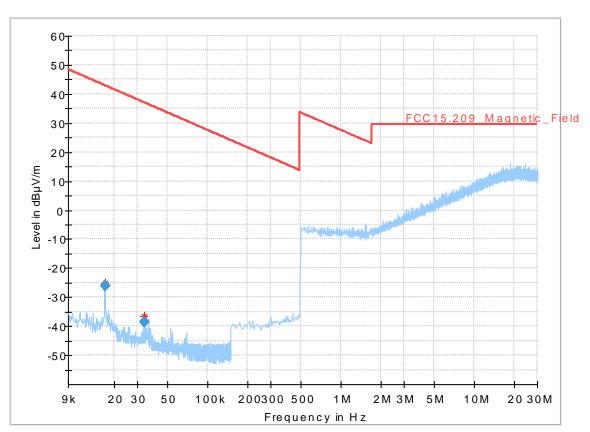
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

Full Spectrum



Final_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB) Meas. Time (ms)		Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017000	-26.12	42.99	69.11	1000.0	0.200	100.0	V	246.0	-58.7
0.033880	-38.49	37.00	75.49	1000.0	0.200	100.0	V	163.0	-59.5



Diagram No: 2.12_WLAN_n(HT20) mode_MCS0_Ch149_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

Operating Mode: TX-on WLAN 802.11 n(HT20), channel 149; MCS0;

Operator Name: Ase

Operating conditions: Humidity: 45%rH; Temperature: 22°C

Power during tests: full chraged battery

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

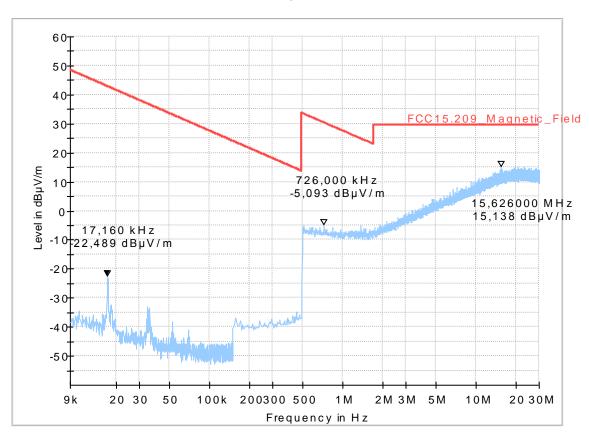
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





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

Diagram No. 3.07_WLAN_a mode_6 Mbps_Ch40_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: RIs

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.11 a-mode, BW 20 MHz channel 40; 6 Mbps

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

 SW Version:
 WEC7

Firmware Version: 2.16

Input: Fully Charged Internal Battery
Full Spectrum

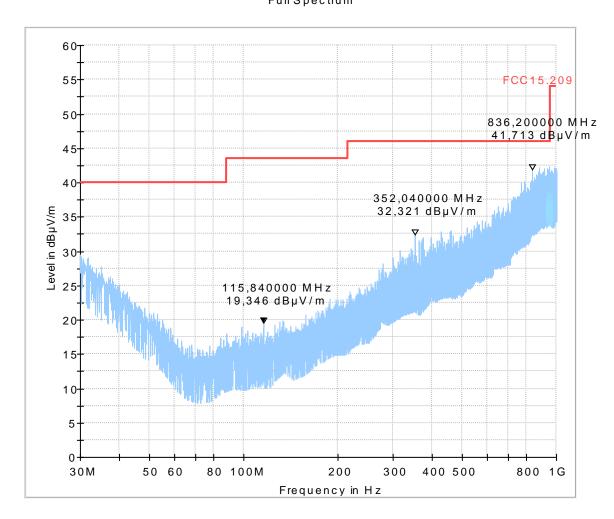




Diagram No: 3.08_WLAN_a mode_6 Mbps_Ch140_30 MHz - 1 GHz

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: R

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.11 a-mode, BW 20 MHz channel 140; 6 Mbps

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

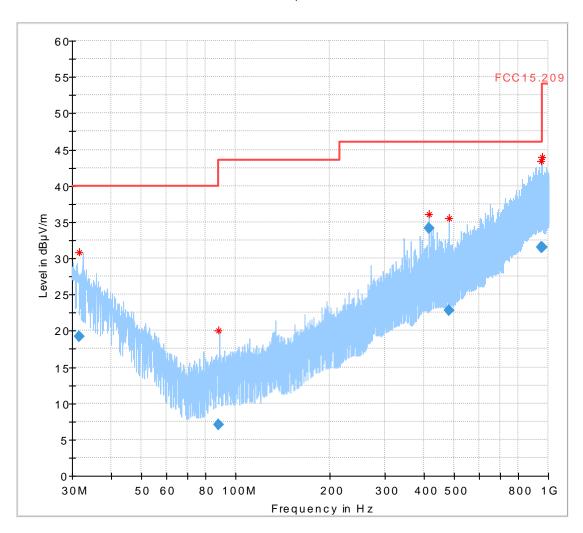
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





$F\underline{inal}_Result$

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)
31.700000	19.22	40.00	20.78	1000.0	120.000	112.0	Н	244.0	0.0	20.8
87.840000	7.01	40.00	32.99	1000.0	120.000	120.0	V	97.0	90.0	8.1
415.980000	34.11	46.00	11.89	1000.0	120.000	105.0	V	329.0	90.0	18.6
482.130000	22.86	46.00	23.14	1000.0	120.000	109.0	V	197.0	0.0	19.4
951.630000	31.49	46.00	14.51	1000.0	120.000	324.0	V	270.0	0.0	27.2
957.530000	31.56	46.00	14.44	1000.0	120.000	233.0	Н	138.0	0.0	27.4



Diagram No: 3.10_WLAN_n(HT20) mode_MCS0_Ch40_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: R

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.11 n(HT20)mode, BW 20 MHz channel 40; MCS0

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

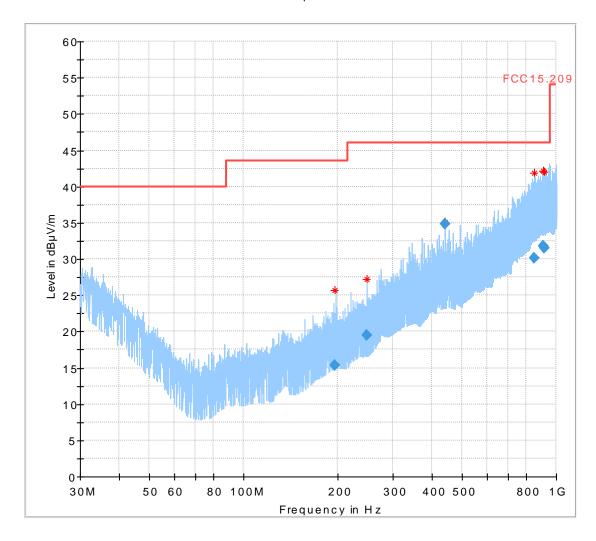
 P/N:
 911350024

 S/N:
 Z16P00218

 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)
196.030000	15.36	43.50	28.14	1000.0	120.000	109.0	Н	97.0	90.0	11.5
246.990000	19.55	46.00	26.45	1000.0	120.000	112.0	Н	260.0	90.0	13.1
441.990000	34.80	46.00	11.20	1000.0	120.000	158.0	Н	82.0	90.0	19.4
852.300000	30.08	46.00	15.92	1000.0	120.000	368.0	Н	58.0	90.0	25.7
910.520000	31.82	46.00	14.18	1000.0	120.000	219.0	Н	295.0	0.0	27.4
913.150000	31.49	46.00	14.51	1000.0	120.000	355.0	Н	235.0	90.0	27.1



Diagram No: 3.11_WLAN_n(HT20) mode_MCS0_Ch100_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: RI

Operating conditions: TX-on Continuous

Operating Mode: TX-on WLAN 802.11 n(HT20)mode, BW 20 MHz channel 100; MCS0

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

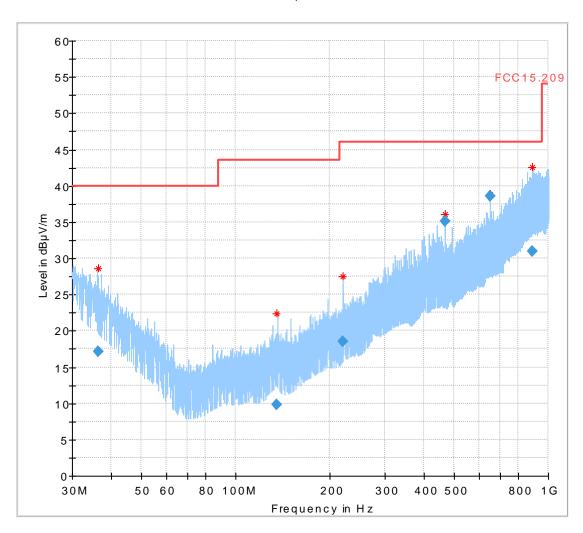
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





$F\underline{inal}_Result$

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
36.220000	17.19	40.00	22.81	1000.0	120.000	205.0	Н	48.0	90.0	18.7
135.620000	9.80	43.50	33.70	1000.0	120.000	105.0	Н	251.0	90.0	9.8
219.620000	18.57	46.00	27.43	1000.0	120.000	112.0	Н	276.0	90.0	12.3
467.980000	35.16	46.00	10.84	1000.0	120.000	105.0	V	174.0	0.0	19.3
650.000000	38.56	46.00	7.44	1000.0	120.000	105.0	Н	274.0	0.0	23.2
890.870000	30.93	46.00	15.07	1000.0	120.000	244.0	V	356.0	0.0	26.6



Diagram No: 3.12_WLAN_n(HT20) mode_MCS0_Ch149_30 MHz - 1 GHz

Common Information

Date: 07.03.2016 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

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 802.11 n(HT20)-mode, BW 20 MHz channel 149; MCS0

Comment 2:

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

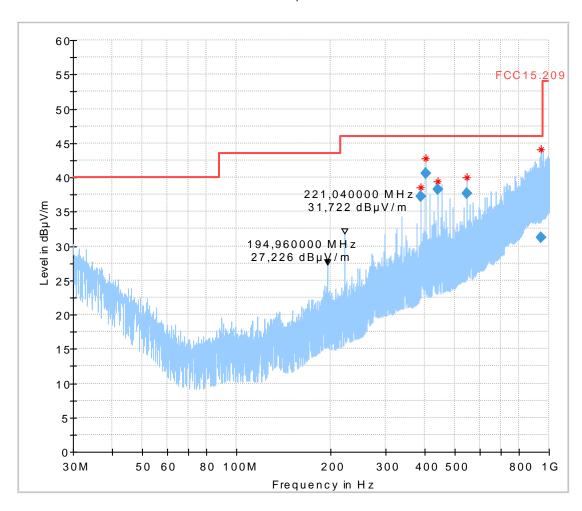
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

 SW Version:
 WEC7

Firmware Version: WEC

Input: Fully Charged Internal Battery





$F\underline{inal}_Result$

Frequency	QuasiPeak	Limit	Margi	Meas.	Bandwidth	Heigh	Pol	Azimut	Elevatio	Corr
(MHz)	$(dB\mu V/m)$	(dBµV/m)	n	Time	(kHz)	t		h	n	
			(dB)	(ms)		(cm)		(deg)	(deg)	(dB)
390.000000	37.23	46.00	8.77	1000.0	120.000	112.0	V	103.0	90.0	18.4
402.970000	40.62	46.00	5.38	1000.0	120.000	112.0	V	123.0	90.0	18.7
441.980000	38.26	46.00	7.74	1000.0	120.000	174.0	Н	63.0	0.0	19.4
545.990000	37.70	46.00	8.30	1000.0	120.000	109.0	Н	115.0	90.0	21.5
945.660000	31.26	46.00	14.74	1000.0	120.000	294.0	V	28.0	90.0	27.4



6. Radiated field strength measurements (1GHz to 40GHz)

Diagram No: 4.07-WLAN_TX_a mode _6 Mbps_ CH40_1-7GHz

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz a-mode, BW 20 MHz channel 40; 6Mbps;

Operator Name: R

EUT Information

Manufacturer: Datalogic ADCL S.r.l.

MODEL: JOYA TOUCH

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

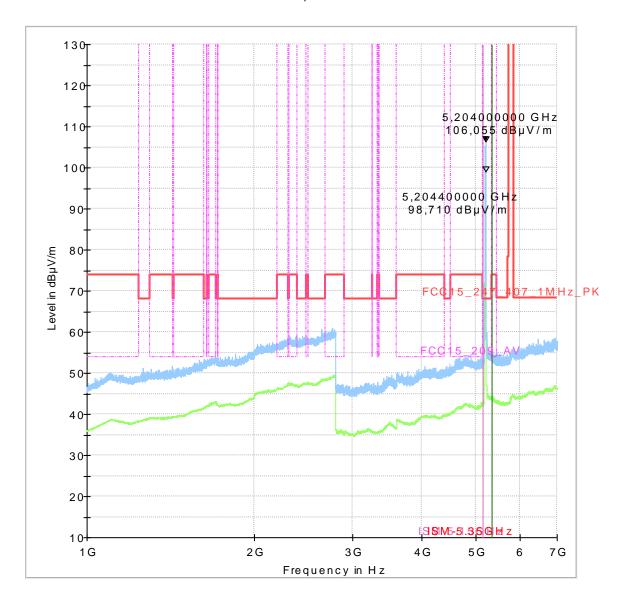




Diagram No: 4.07a_WLAN_TX_a mode _6 Mbps_ CH40_7-18GHz

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

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

Operation mode: TX, continuous WLAN 5GHz a-mode, BW 20 MHz channel 140; 6Mbps;

Operator Name: AHo/APh

EUT Information

Manufacturer:Datalogic ADCL S.r.l.MODEL:JOYA TOUCHEuT Type:B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

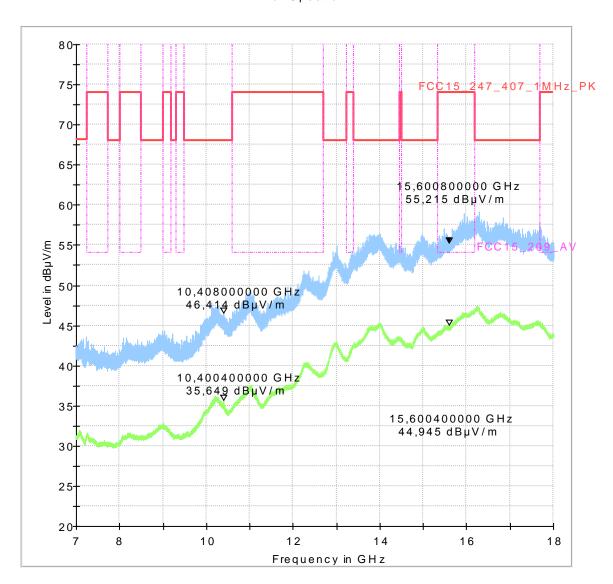




Diagram No: 4.07b_WLAN_TX_a mode _6 Mbps_ CH40_18-40GHz

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 CH40-aMode-6MBit

Operator Name: TFr

EUT Information

Manufacturer: Datalogic ADCL S.r.l.
MODEL: JOYA TOUCH
EuT Type: B00AN00HL0GT0W7-GRR

P/N: 911350024 S/N: Z16P00218 HW Version: Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

FCC_Sweep_15.407_18_40GHz_Pre

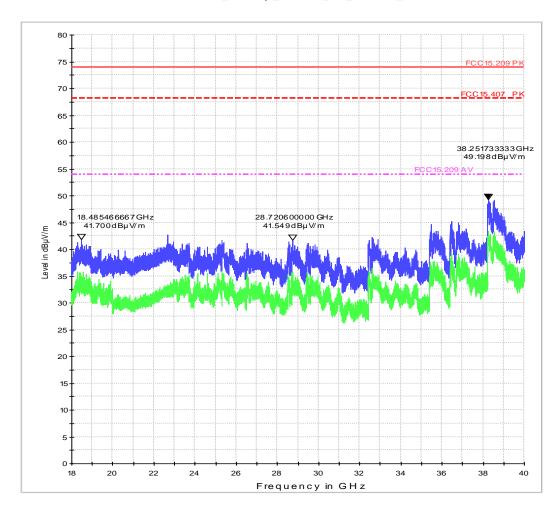




Diagram No: 4.08-WLAN_TX_a mode _6 Mbps_ CH140_1-7GHz

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz a-mode, BW 20 MHz channel 140; 6Mbps;

Operator Name: RIs

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

Comments:

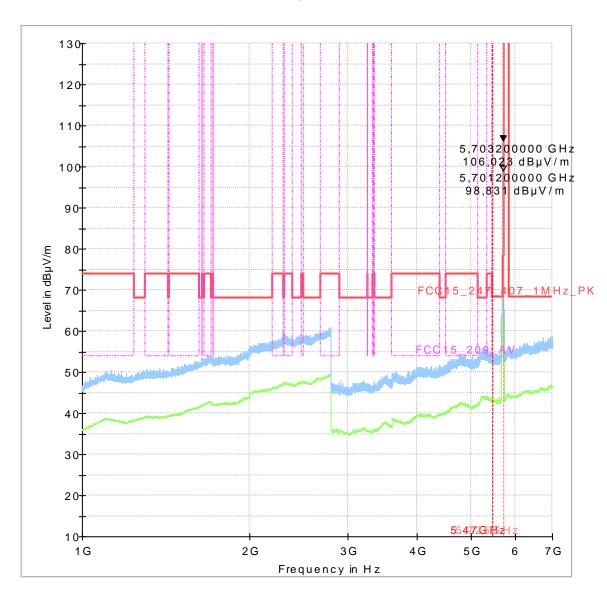




Diagram No: 4.08a_WLAN_TX_a mode _6 Mbps_ CH140_7-18GHz

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

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

Operation mode: TX, continuous WLAN 5GHz a-mode, BW 20 MHz channel 140; 6Mbps;

Operator Name: AHo/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

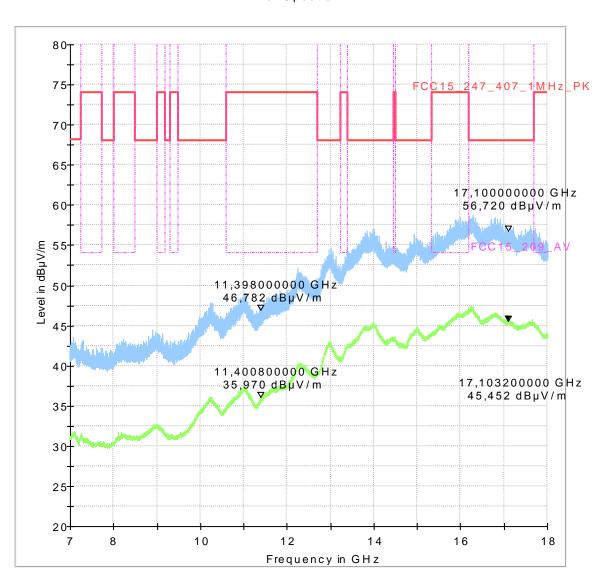




Diagram No: 4.08b_WLAN_TX_a mode _6 Mbps_ CH140_18-40GHz

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 CH140-aMode-6MBit

Operator Name: TFr

Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

FCC_Sweep_15.407_18_40GHz_Pre

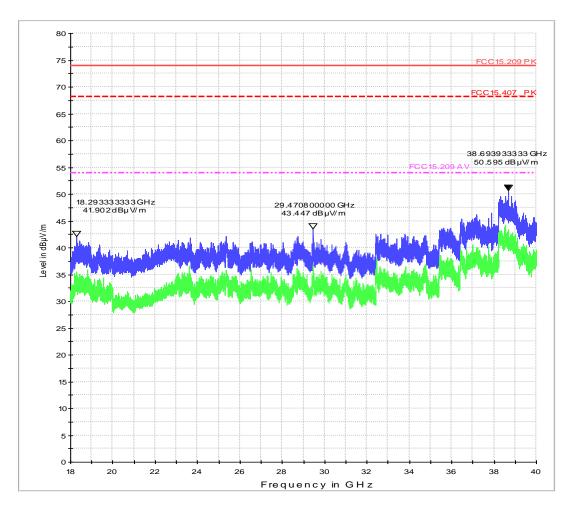




Diagram No: 4.10_WLAN_TX_n(HT20) _MCS0_ CH40_1-7GHz

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n(HT20), channel 40; MCS0;

Operator Name: MFr

EUT Information

Manufacturer:Datalogic ADCL S.r.l.MODEL:JOYA TOUCHEuT Type:B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

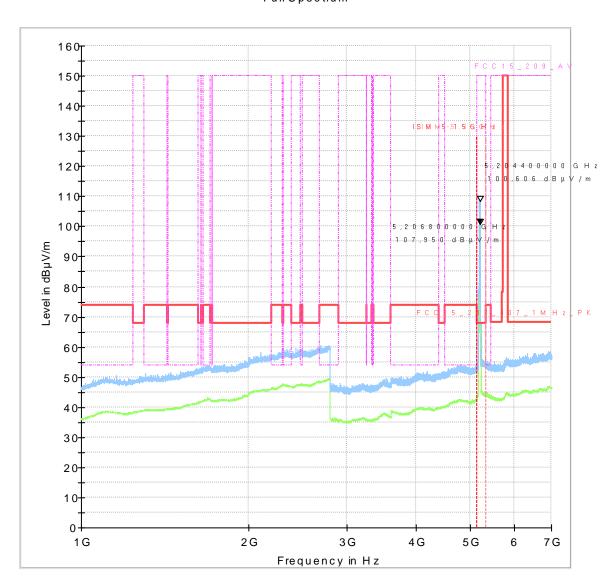




Diagram No: 4.10a_WLAN_TX_n(HT20)_MCS0_ CH40_7-18GHz

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

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

Operation mode: TX, continuous WLAN 5GHz a-mode, BW 20 MHz channel 140; 6Mbps;

Operator Name: AHo/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

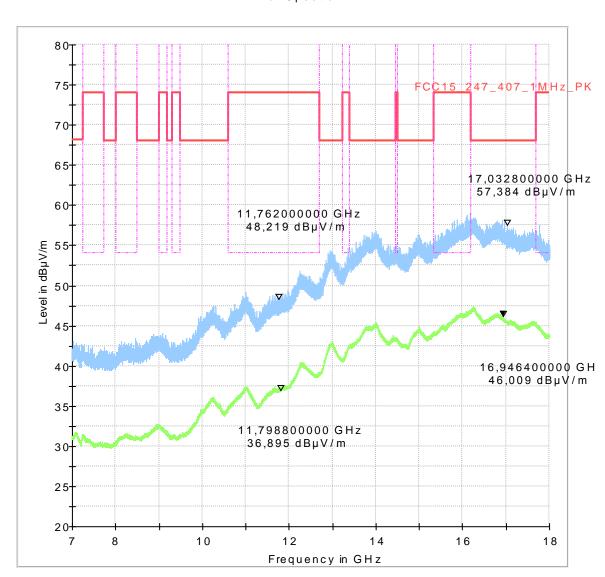




Diagram No: 4.10b_WLAN_TX_n(HT20)_MCS0_ CH40_18-40 GHz

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 CH40-nMode-MCS0

Operator Name: TFr

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

 SW Version:
 WEC7

Firmware Version: 2.16

Input: Fully Charged Internal Battery

FCC_Sweep_15.407_18_40GHz_Pre

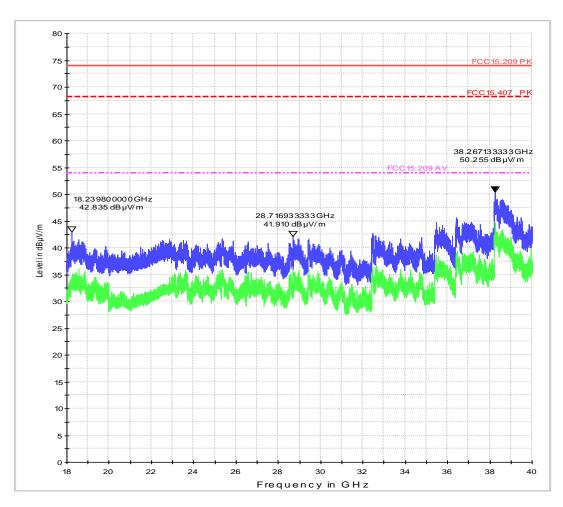




Diagram No: 4.11_WLAN_TX_n(HT20) _MCS0_ CH100_1-7GHz

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n(HT20), channel 100; MCS0;

Operator Name: MRa

Comment: Channel no. 100

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

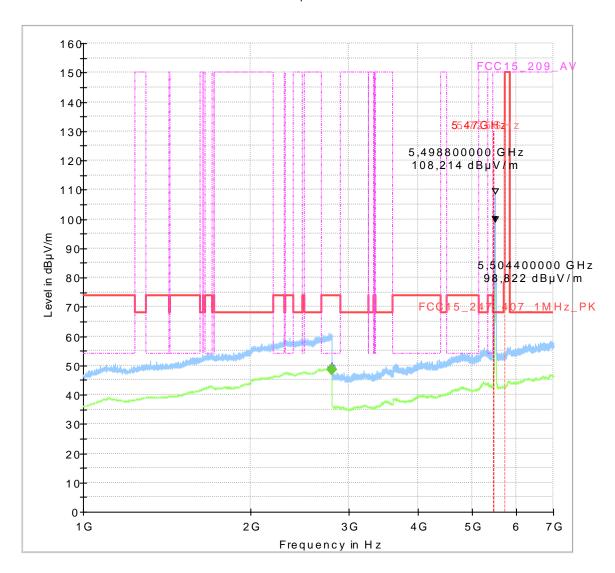
 P/N:
 911350024

 S/N:
 Z16P00218

 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)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2800.000000		48.57	54.00	5.43	100.0	1000.000	155.0	Н	34.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr	Comment
2800.000000	44.1	17:30:245 - 08.04.2016



Diagram No: 4.11a_WLAN_TX_n(HT20)_MCS0_ CH100_7-18GHz

Common Information

Test Description: Radiated field strength emission in 1m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

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

Operation mode: TX, continuous WLAN 5GHz a-mode, BW 20 MHz channel 100; MCS0;

Operator Name: MI

EUT Information

Manufacturer:Datalogic ADCL S.r.l.MODEL:JOYA TOUCHEuT Type:B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

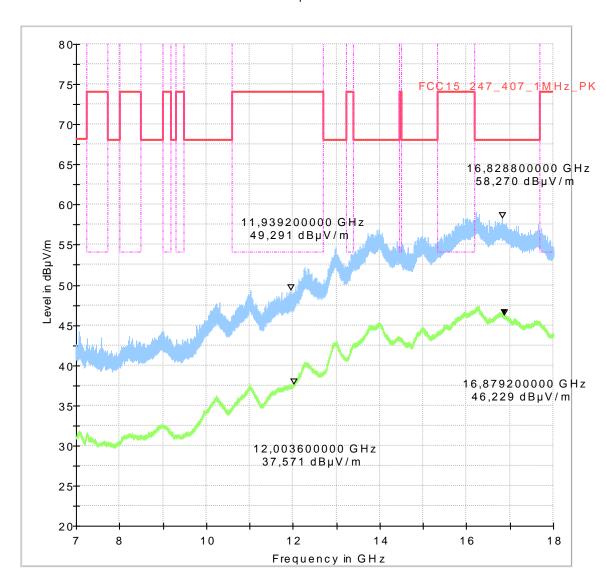




Diagram No: 4.11b_WLAN_TX_n(HT20)_MCS0_ CH100_18-40 GHz

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 CH100-nMode-MCS0

Operator Name: TF1

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

FCC_Sweep_15.407_18_40GHz_Pre

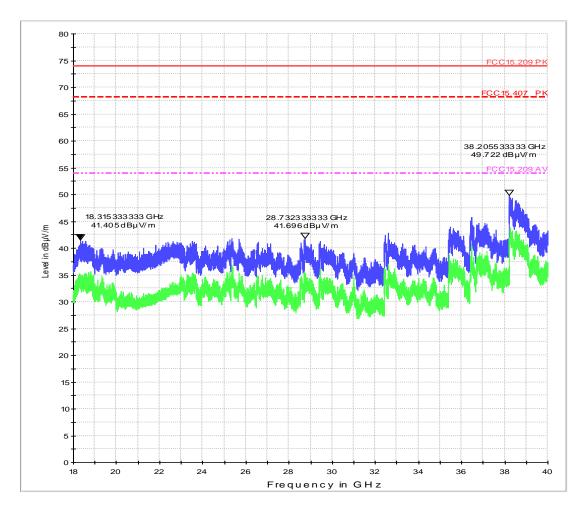




Diagram No: 4.12_WLAN_TX_n(HT20) _MCS0_ CH149_1-7GHz

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

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

Operation mode: TX, continuous WLAN 5GHz n(HT20), channel 149; MCS0;

Operator Name: KMo/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

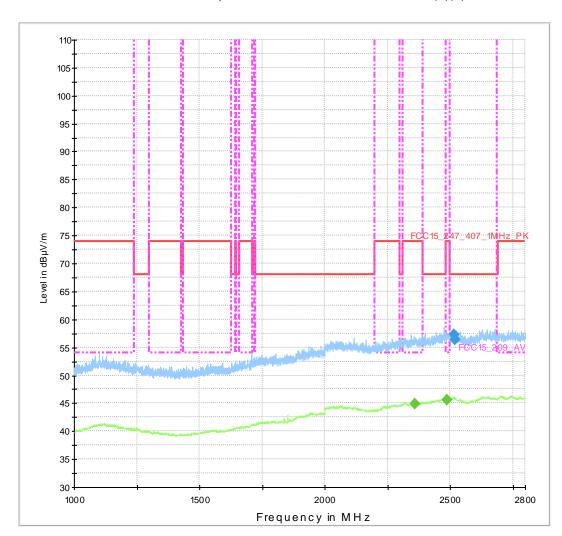
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

00431c_Sweep1_SM1_KP1_W LAN_FCC15407(b)(3)_Ch100_165





Final Result 1

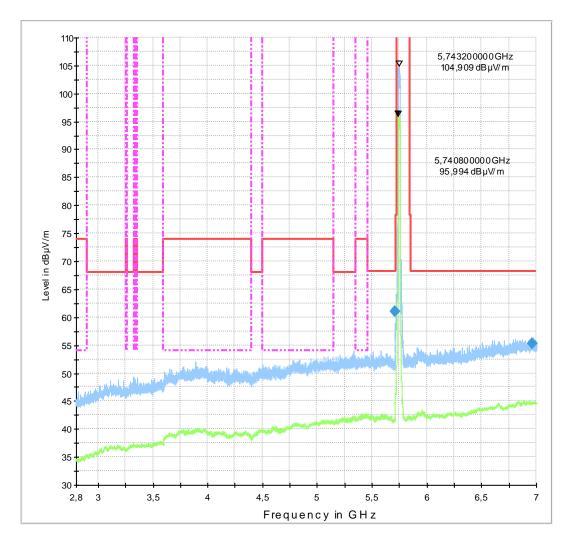
Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarizatio n	Azimut h (deg)	Elevatio n (deg)	Corr · (dB)	Margi n (dB)	Limit (dBµV/m)
2516.300000	57.3	100.0	1000.000	V	202.0	-3.0	40.5	10.7	68.0
2518.450000	56.5	100.0	1000.000	V	126.0	87.0	40.5	11.5	68.0

(Final Result 2

	Frequency (MHz)	RMS (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarizatio n	Azimut h (deg)	Elevatio n (deg)	Corr (dB)	Margi n (dB)	Limit (dBµV/m)
	2359.700000	44.9	100.0	1000.000	V	-69.0	87.0	40.1	9.1	54.0
Ĭ	2486.250000	45.6	100.0	1000.000	V	166.0	87.0	40.5	8.4	54.0



$\tt 00431c_Sweep1_SM1_KP1_WLAN_FCC15407(b)(3)_Ch100_165$



Final Result 1

_										
	Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarizatio n	Azimut h (deg)	Elevatio n (deg)	Corr (dB)	Margi n (dB)	Limit (dBµV/m)
	5712.400000	61.0	100.0	1000.000	V	51.0	-3.0	7.6	7.2	68.2
	6964.050000	55.2	100.0	1000.000	V	241.0	87.0	11.9	13.0	68.2

(Final Result 2

Frequency (MHz)	RMS (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarizatio n	Azimut h (deg)	Elevatio n (deg)	Corr (dB)	Margi n (dB)	Limit (dBµV/m)
7474.500000	45.8	100.0	1000.000	V	-74.0	-3.0	14.1	8.2	54.0
7720.350000	45.6	100.0	1000.000	V	31.0	87.0	14.3	8.4	54.0



Diagram No: 4.12a_WLAN_TX_n(HT20)_MCS0_ CH149_7-18GHz

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n(HT20), channel 149; MCS0;;

Operator Name: APh

EUT Information

Manufacturer:Datalogic ADCL S.r.l.MODEL:JOYA TOUCHEuT Type:B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

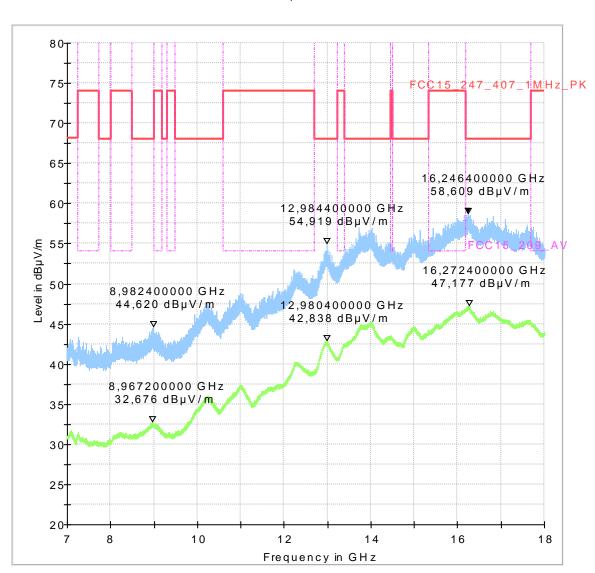




Diagram No: 4.12b_WLAN_TX_n(HT20)_MCS0_ CH149_18-40 GHz

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 CH149-nMode-MCS0

Operator Name: TFr

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

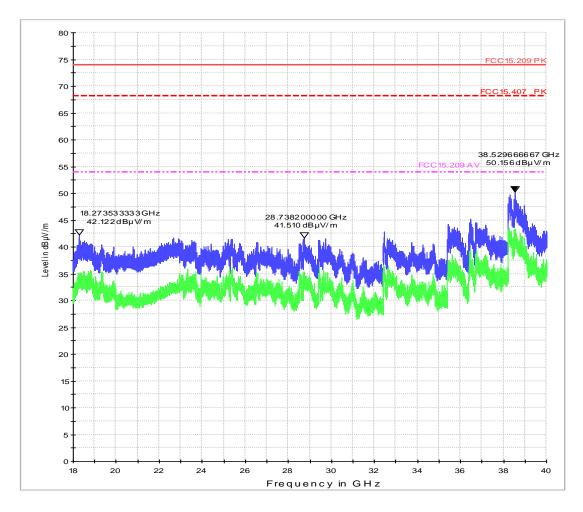
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery

 $FCC_Sw\,eep_15.407_18_40GH\,z_Pre$





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

7.1. Channel 36 a-Mode (left band edge)

Diagram No: 9.13-BE_Low_WLAN_TX_6 Mbps_ CH36

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz a-mode, channel 36; 6Mbps;

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

Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

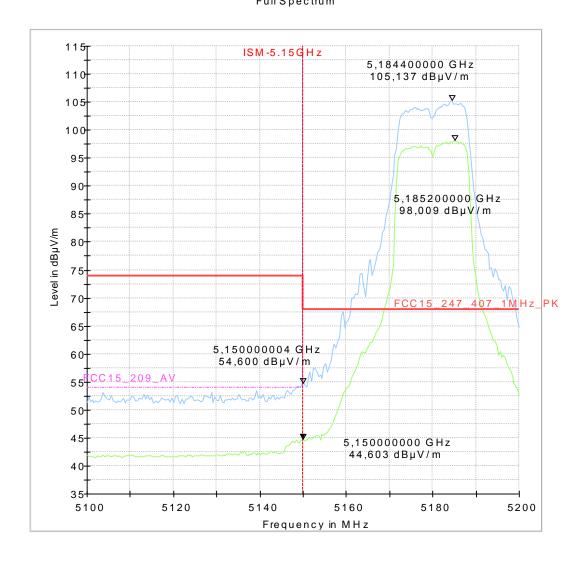
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery
Full Spectrum





7.2. Channel 64 a-Mode (right band edge)

Diagram No: 9.14_BE_High_a-mode _6Mbps_ CH64

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHza-mode), channel 64; 6 Mbps;

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

Operator Name: PSa/API

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

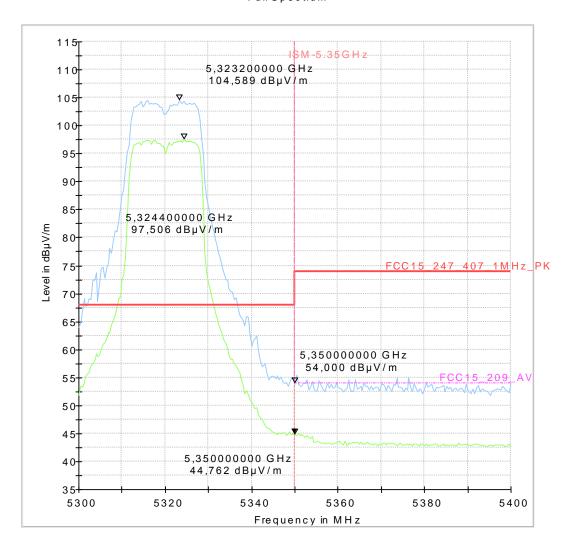
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





7.3. Channel 100 a-Mode (left band edge)

Diagram No: 9.15_BE_Low_a mode _6 Mbps_ CH100

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz a-mode, channel 100; 6Mbps;

Environmental Conditions: TX, continuous Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

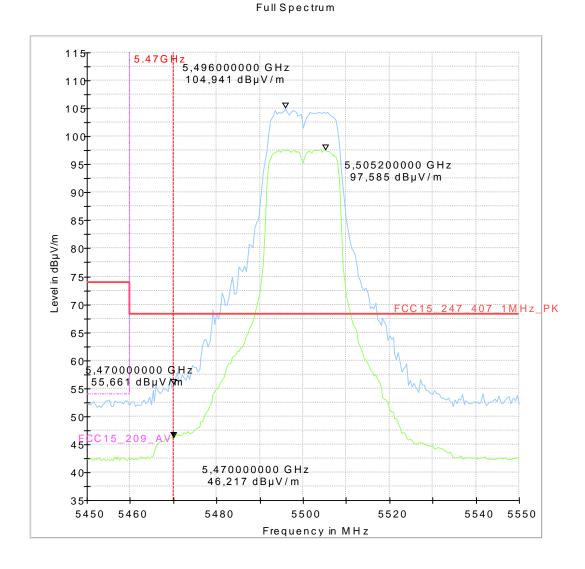
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





7.4. Channel 140 a-Mode (right band edge)

Diagram No: 9.16-BE_High_WLAN_TX_6 Mbps_ CH 140

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz a-mode, channel 140; 6 Mbps;

Environmental Conditions: Humidity: 31%rH; Temperature: 23°C

Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

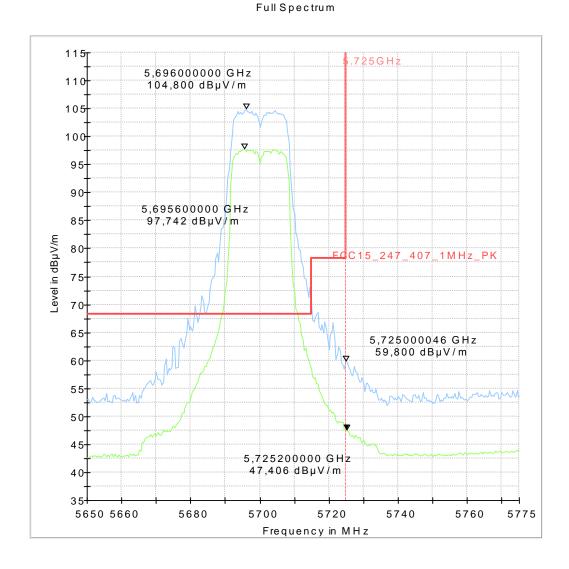
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





7.5. Channel 36 n-Mode(HT20) (left band edge)

Diagram No: 9.17-BE_Low_ n(HT20) _MCS0_ CH36

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n(HT20), channel 36; MCS0

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

Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

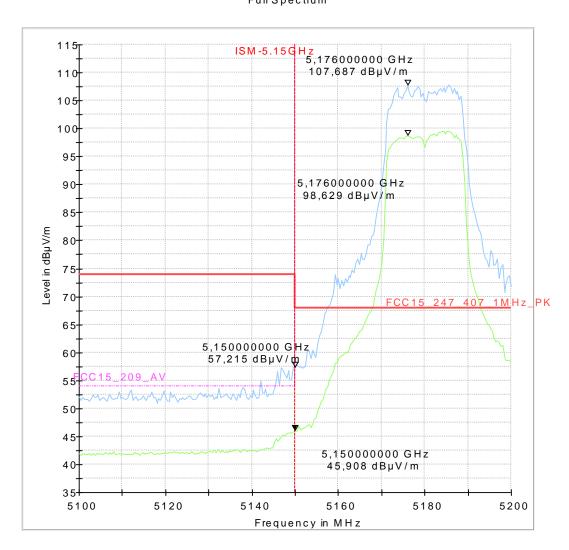
 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

 SW Version:
 WEC7

SW Version: WEC Firmware Version: 2.16

Input: Fully Charged Internal Battery
Full Spectrum





7.6. Channel 64 n-Mode(HT20) (right band edge)

Diagram No: 9.18_BE_High_n(HT20) _MCS0_ CH64

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n-mode, channel 64; MCS0

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

Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

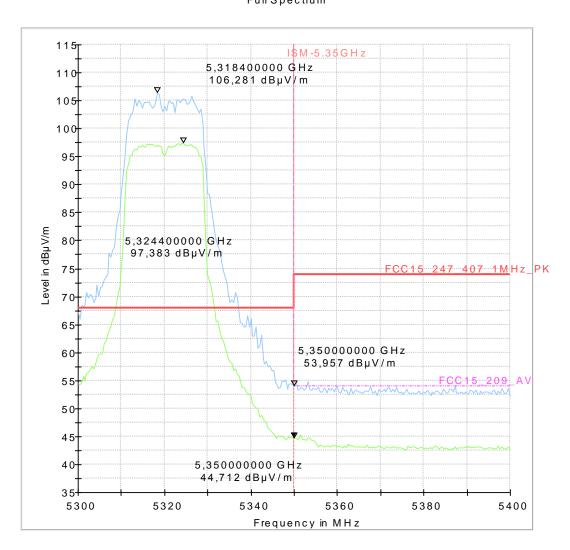
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery
Full Spectrum





7.7. Channel 100 n-Mode(HT20) (left band edge)

Diagram No: 9.19_BE_Low_n(HT20) _MCS0_ CH100

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n-mode, channel 100; MCS0;

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

Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

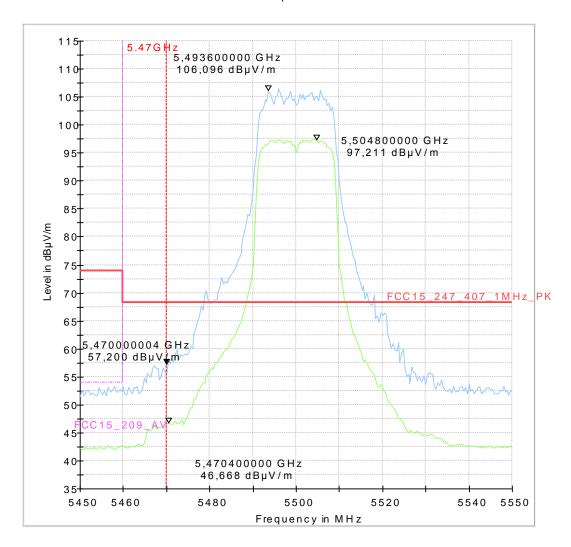
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





7.8. Channel 140 n-Mode(HT20) (right band edge)

Diagram No: 9.20_BE_High_n(HT20) _MCS0_ CH140

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n-mode, channel 140; MCS0;

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

Operator Name: PSa/APh

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

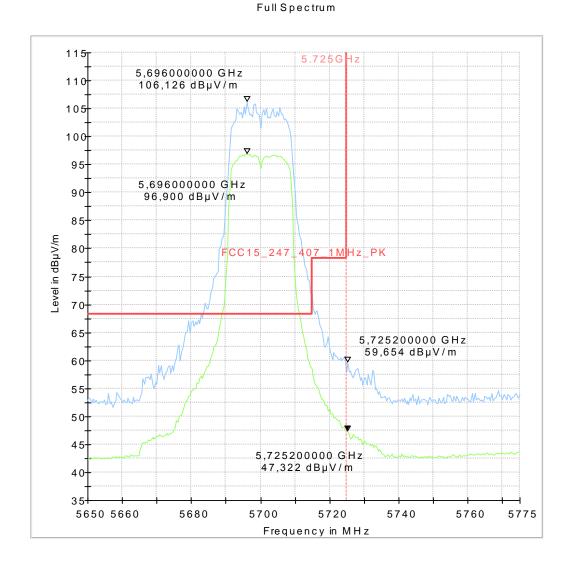
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





7.9. Channel 149 n-Mode(HT20) (left band edge)

Diagram No: 9.21_BE_Low_n(HT20) _MCS0_ CH149

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n-mode, channel 149; MCS0;

Operator Name: APh

Comment: Channel no. low = 149

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

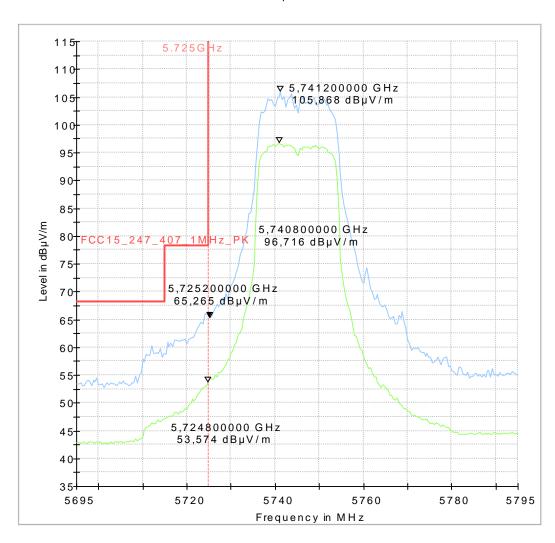
 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

SW Version: WEC7 Firmware Version: 2.16

Input: Fully Charged Internal Battery





7.10. Channel 165 n-Mode(HT20) (right band edge)

Diagram No: 9.22_BE_High_n(HT20) _MCS0_ CH165

Common Information

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous WLAN 5GHz n-mode, channel 165; MCS0;

Operator Name: APh

Comment: Channel no. high = 165

EUT Information

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

EuT Type: B00AN00HL0GT0W7-GRR

 P/N:
 911350024

 S/N:
 Z16P00218

 HW Version:
 Beta HW Version

 SW Version:
 WEC7

Firmware Version: WEC 2.16

Input: Fully Charged Internal Battery

