

Annex 1: Diagramms to  
**PARTIAL TEST REPORT**  
 No.: 2-20842790-15-7b







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: B00AN00HL0HT0W7-GR0

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

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

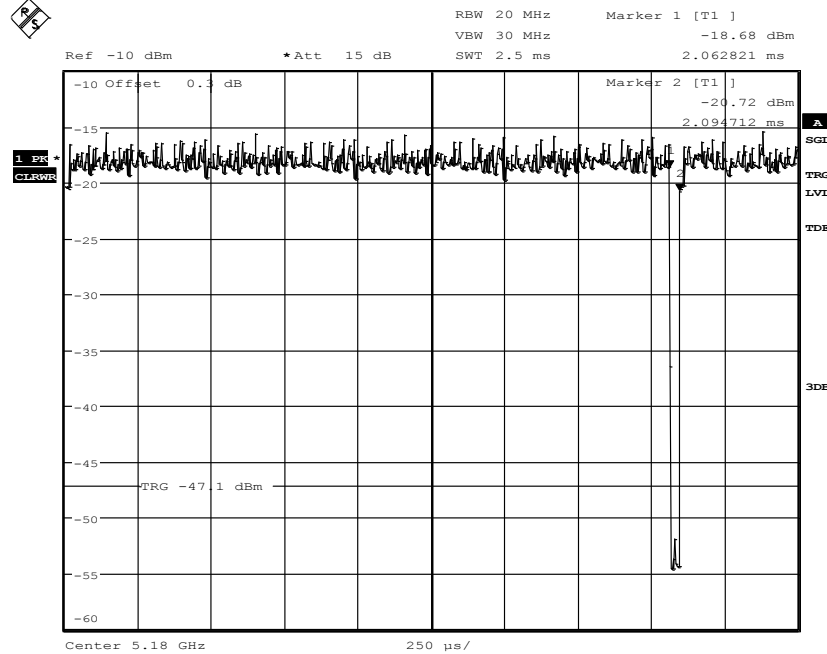
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# 1. Duty-Cycle of Transmitter

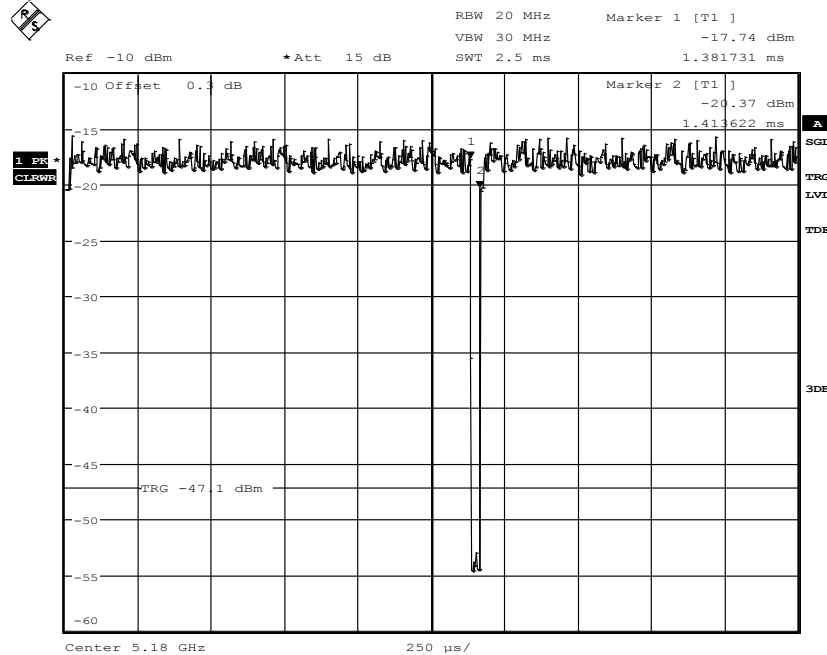
The characteristics of the implemented test mode was checked on middle channel no. 36 (a-Mode and n-Mode HT20) only.

**Diagram a-Mode 6Mbit:**



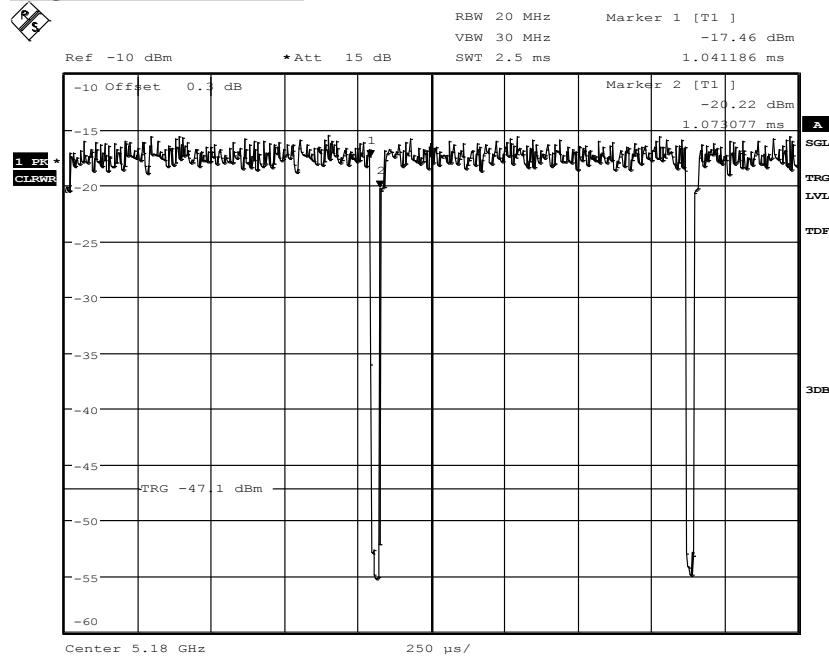
Date: 8.JUN.2016 11:00:44

**Diagram a-Mode 9Mbit:**



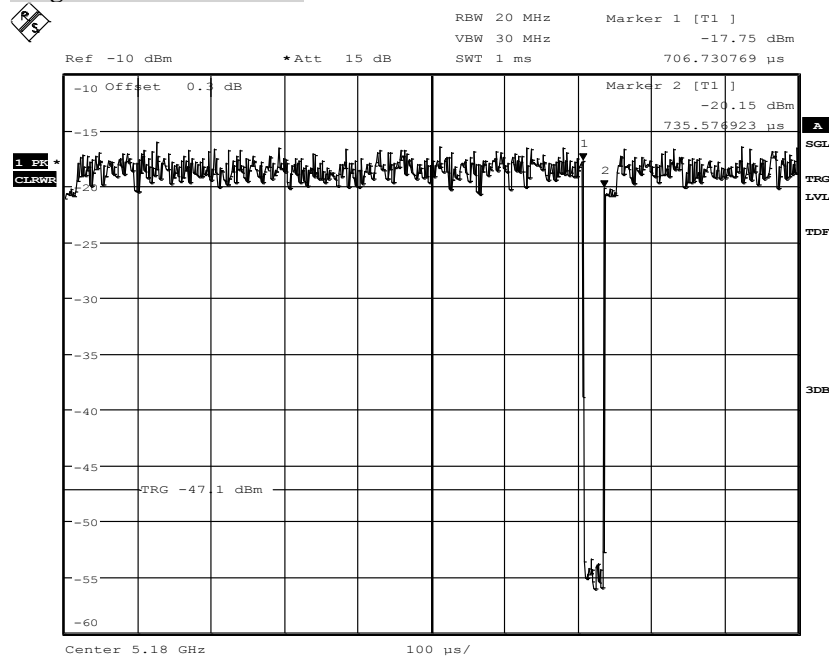
Date: 8.JUN.2016 11:01:44

## Diagram a-Mode 12Mbit:



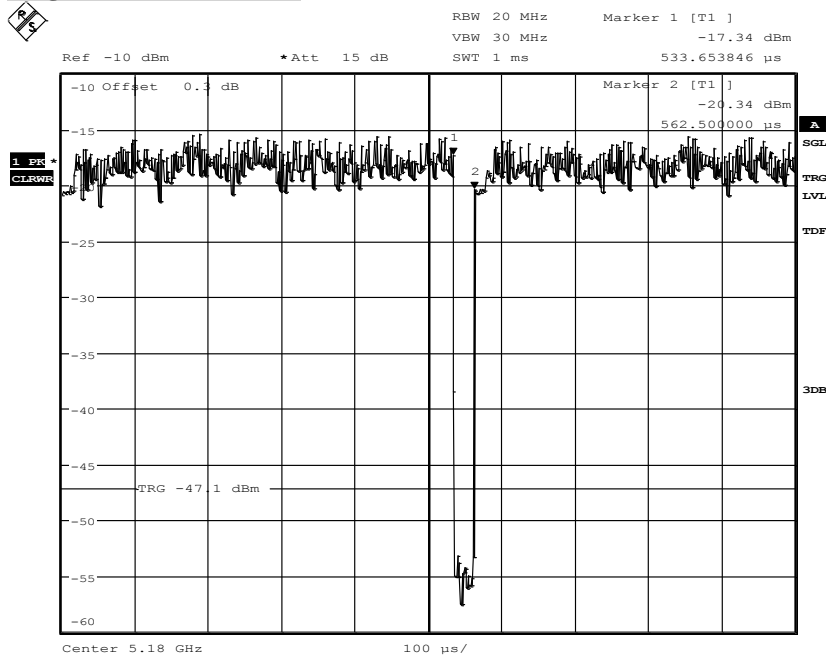
Date: 8.JUN.2016 11:02:52

## Diagram a-Mode 18Mbit:



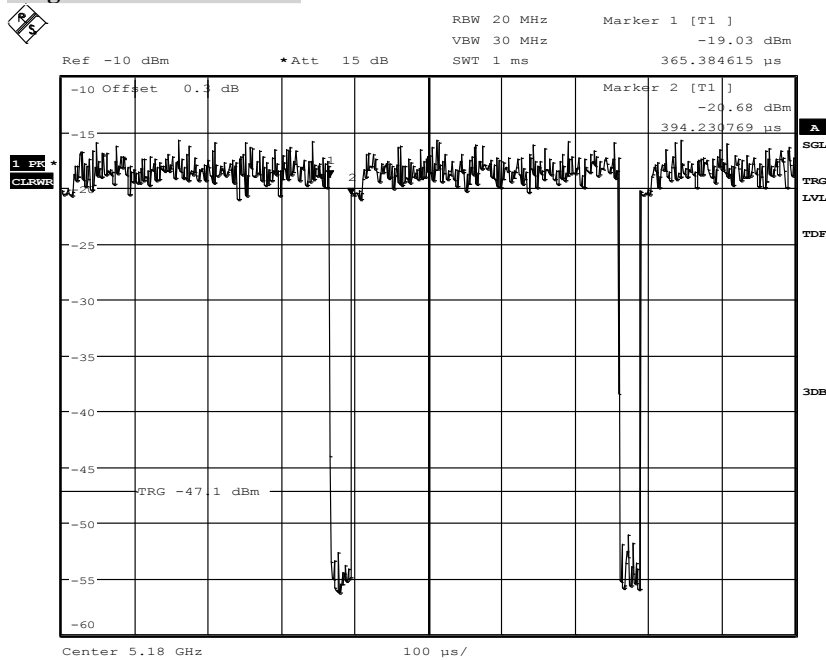
Date: 8.JUN.2016 11:03:52

### Diagram a-Mode 24Mbit:



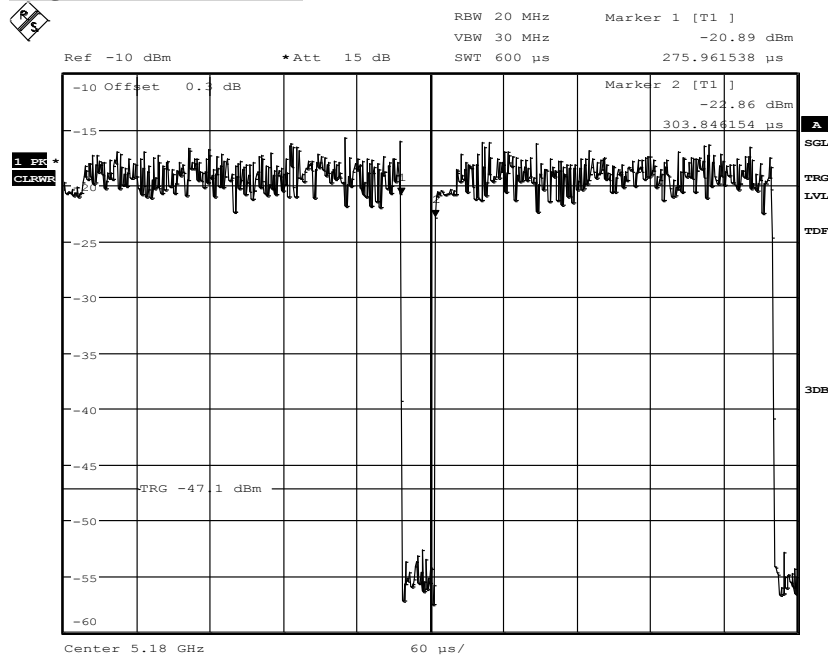
Date: 8.JUN.2016 11:04:48

### Diagram a-Mode 36Mbit:



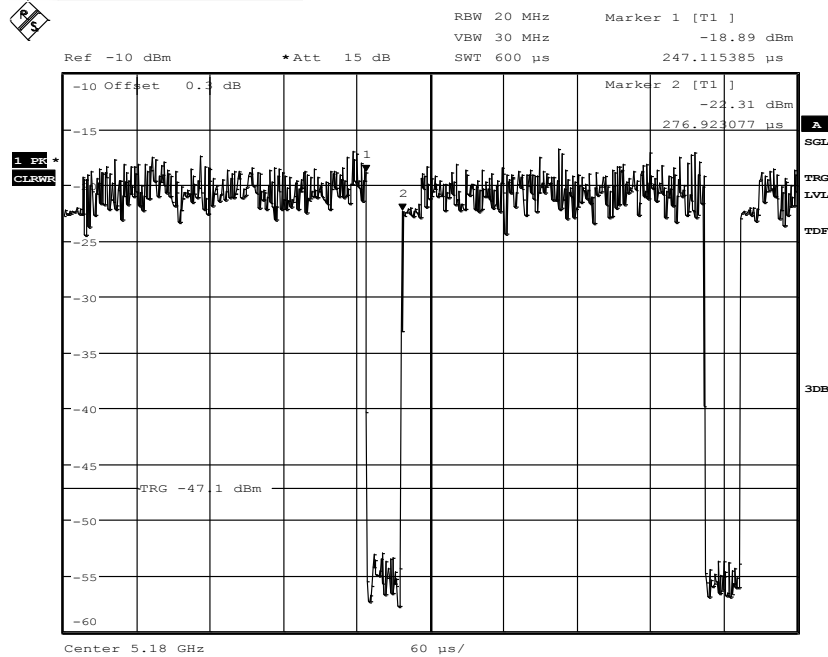
Date: 8.JUN.2016 11:06:16

### Diagram a-Mode 48Mbit:



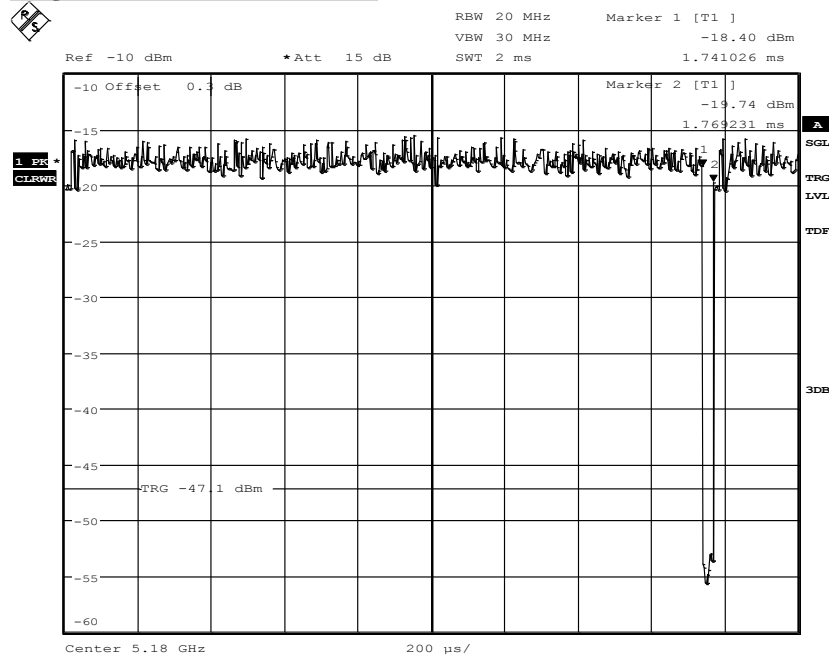
Date: 8.JUN.2016 10:58:55

### Diagram a-Mode 54Mbit:



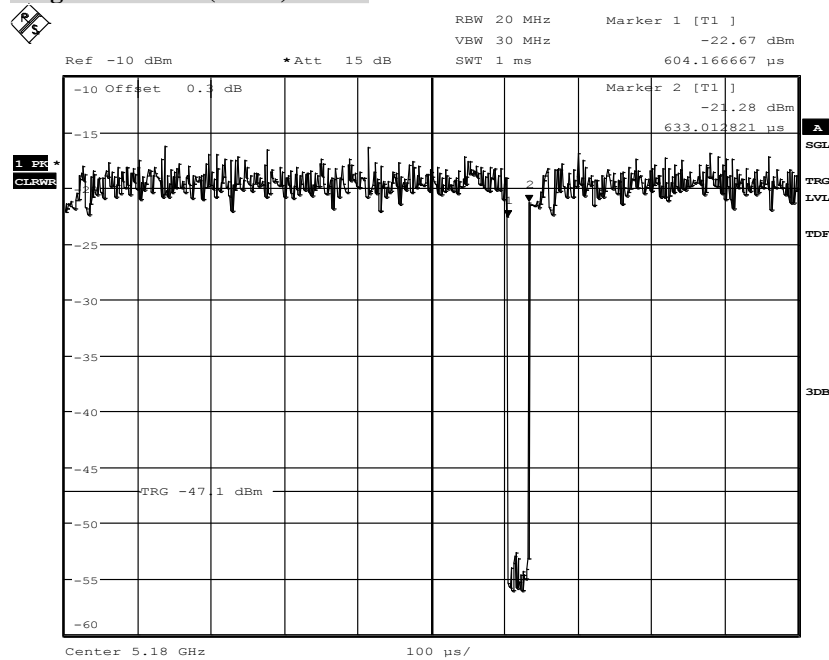
Date: 8.JUN.2016 10:57:42

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



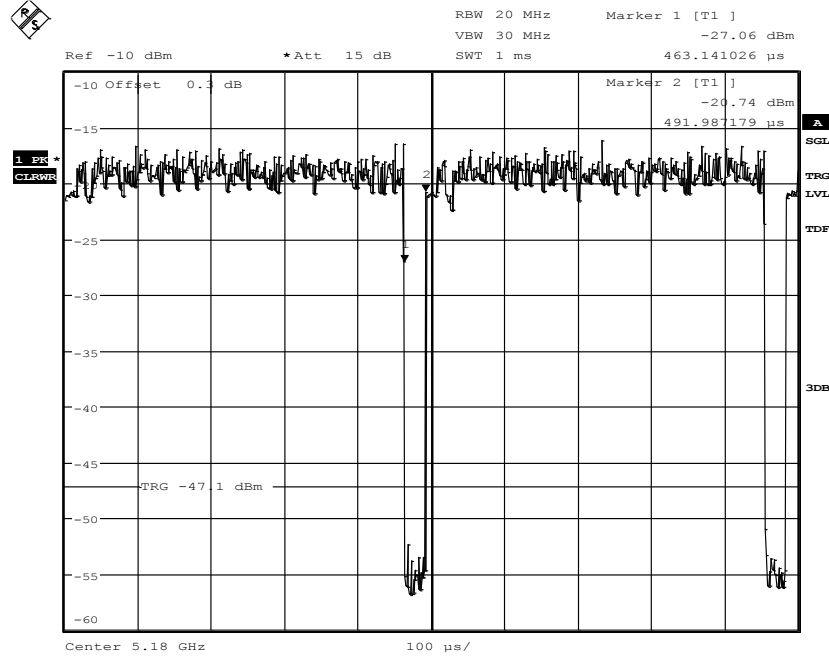
Date: 8.JUN.2016 11:07:42

### Diagram n-Mode(HT20) MCS2:



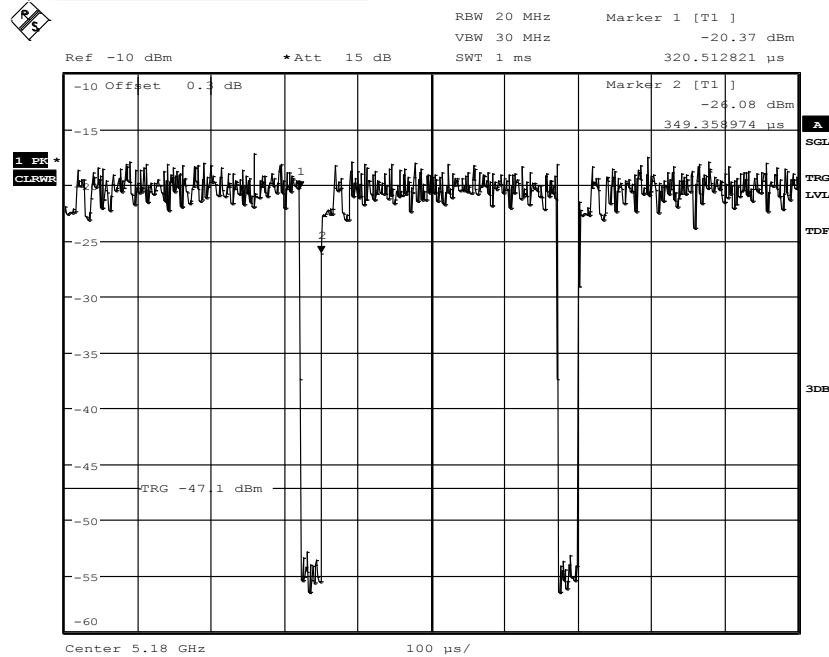
Date: 8.JUN.2016 11:25:25

### Diagram n-Mode(HT20) MCS3:



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

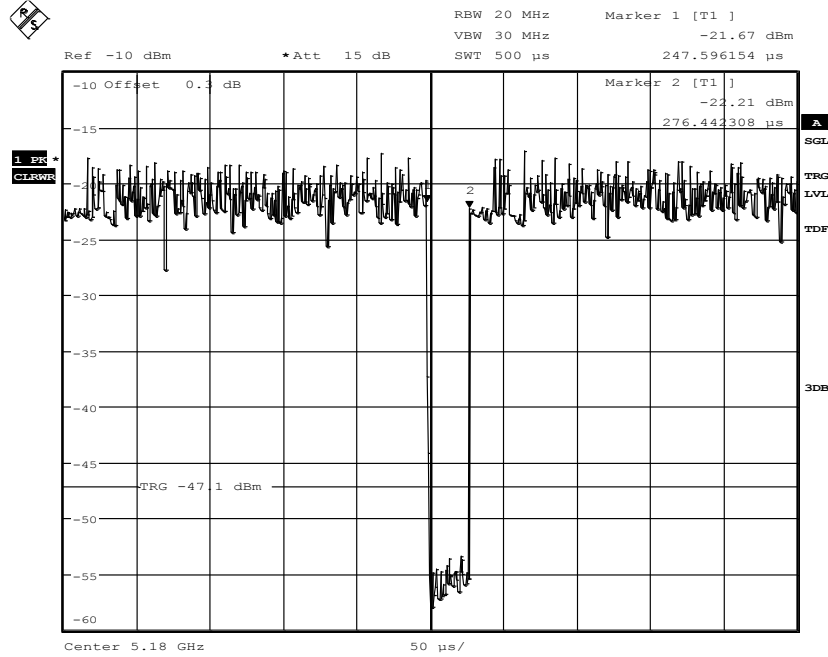
### Diagram n-Mode(HT20) MCS4:



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

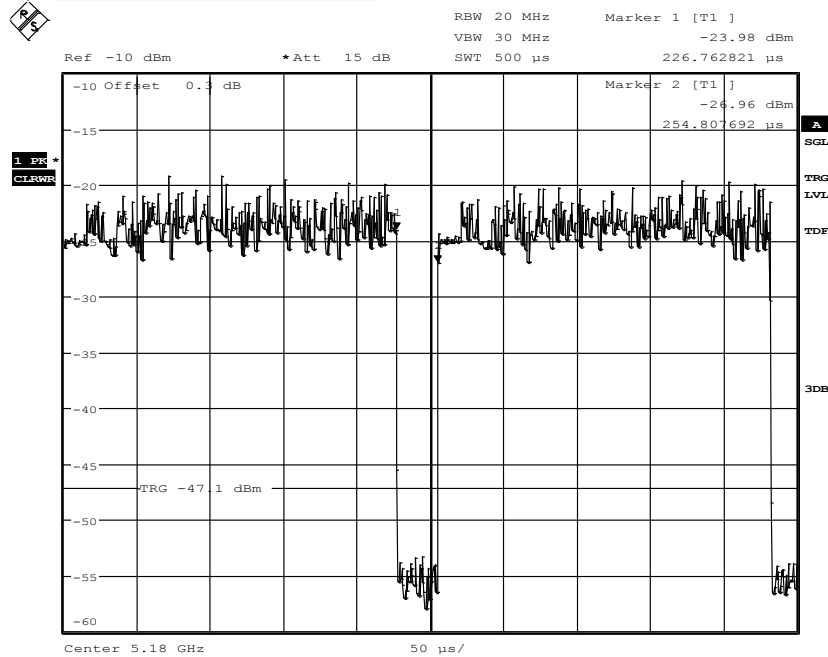


### Diagram n-Mode(HT20) MCS5:



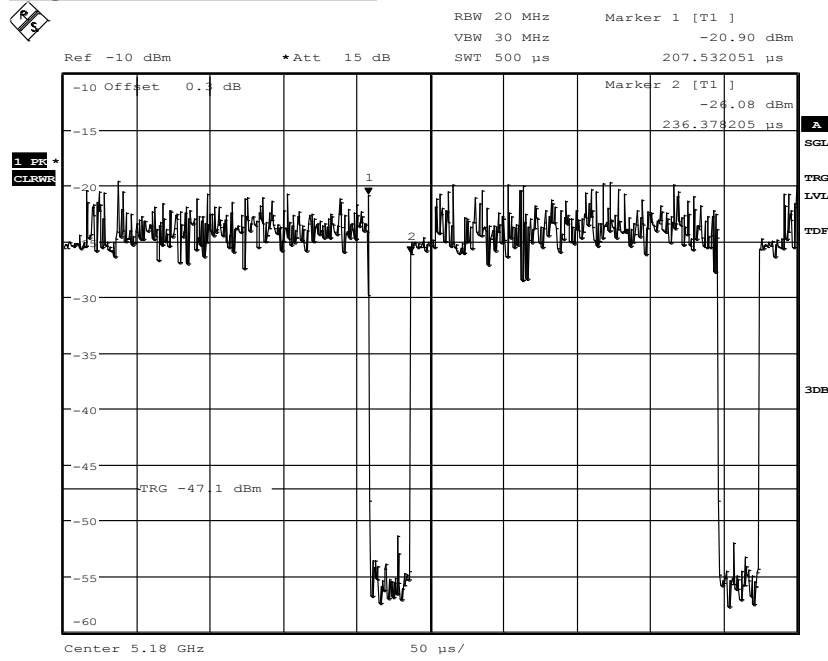
Date: 8.JUN.2016 11:35:21

### Diagram n-Mode(HT20) MCS6:



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

## Diagram n-Mode(HT20) MCS7:



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

## 2. Maximum Peak Conducted Output Power

### 2.1. 20MHz signal BW

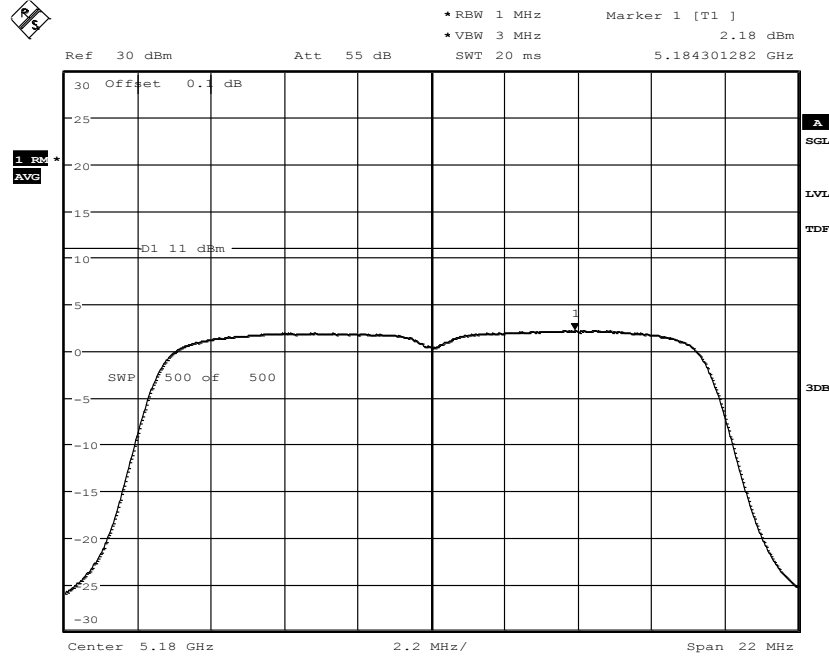
Operational bands:	U-NII 1			U-NII-2A			U-NII 2C			U-NII-3		
Channel no.:	Channel 36 (5180MHz)	Channel 40 (5200MHz)	Channel 48 (5240MHz)	Channel 52 (5260MHz)	Channel 56 (5280MHz)	Channel 64 (5320MHz)	Channel 100 (5500MHz)	Channel 116 (5580MHz)	Channel 140 (5700MHz)	Channel 149 (5745MHz)	Channel 157 (5785MHz)	Channel 165 (5825MHz)
<b>a-Mode/(90% Power level)</b>												
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	12,00	11,24	11,91	12,60	12,82	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
<b>n(HT20)-Mode/(90% Power level)</b>												
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
<b>Operational bands:</b>	<b>U-NII 1 (Outdoor use: EIRP-Limit of 21dBm)</b>			<b>U-NII-2A</b>			<b>U-NII 2C</b>			<b>U-NII 3</b>		
<b>FCC-Limits [dBm]</b>	24,00			23,98			23,98			30,00		
<b>Limit Check:</b>	<b>Limit Check:</b>											
Highest conducted power value over channels and modulations:	14,46			13,9			12,2			12,8		
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.

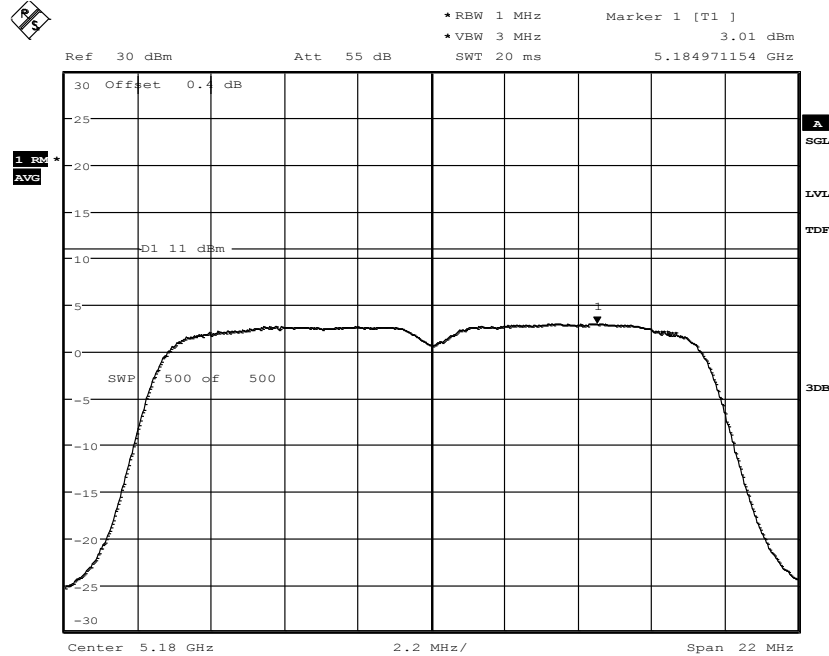
### 3. Conducted Power Spectral Density

**Diagram a-Mode 6Mbps Ch36:**



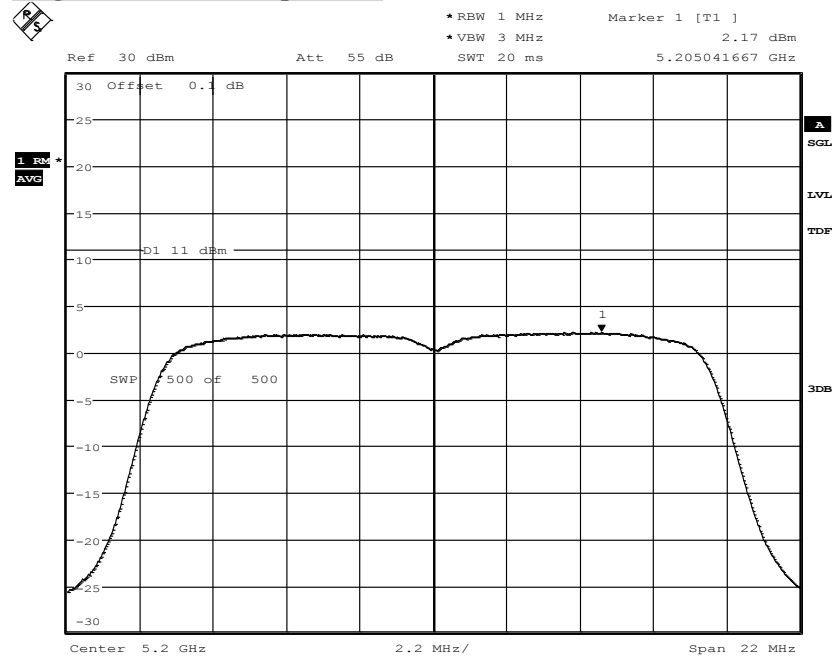
Date: 9.JUN.2016 10:43:39

**Diagram a-Mode 48Mbps Ch36:**



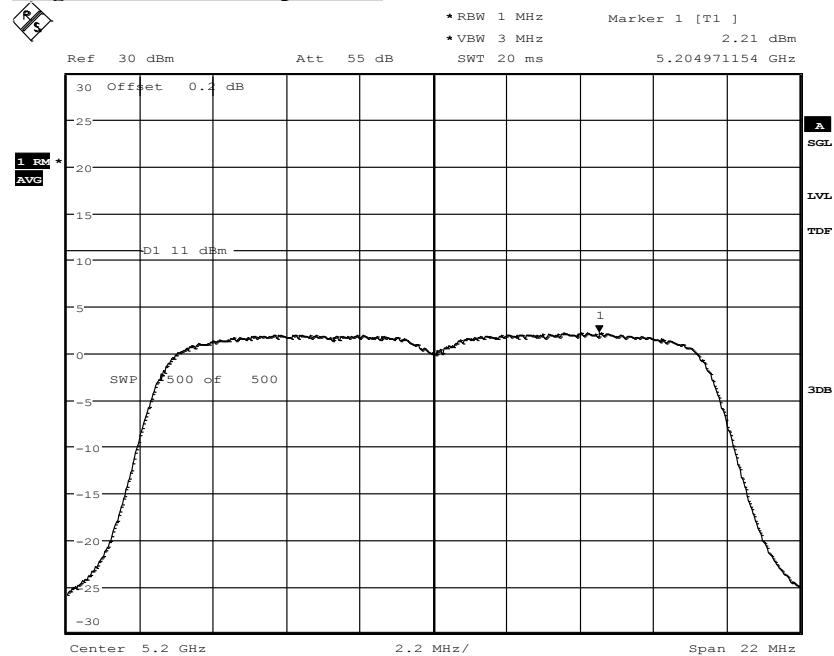
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### Diagram a-Mode 12Mbps Ch40:



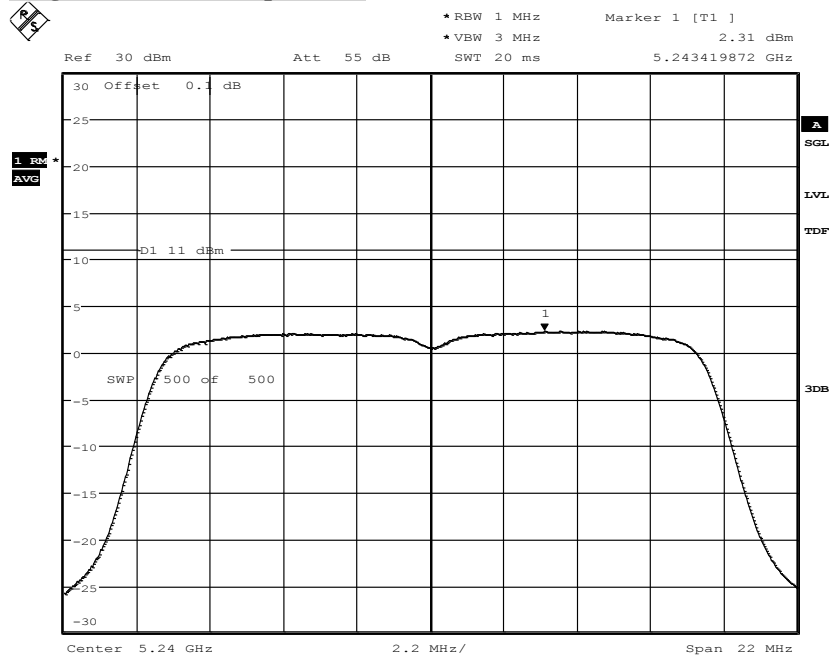
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### Diagram a-Mode 24Mbps Ch40:



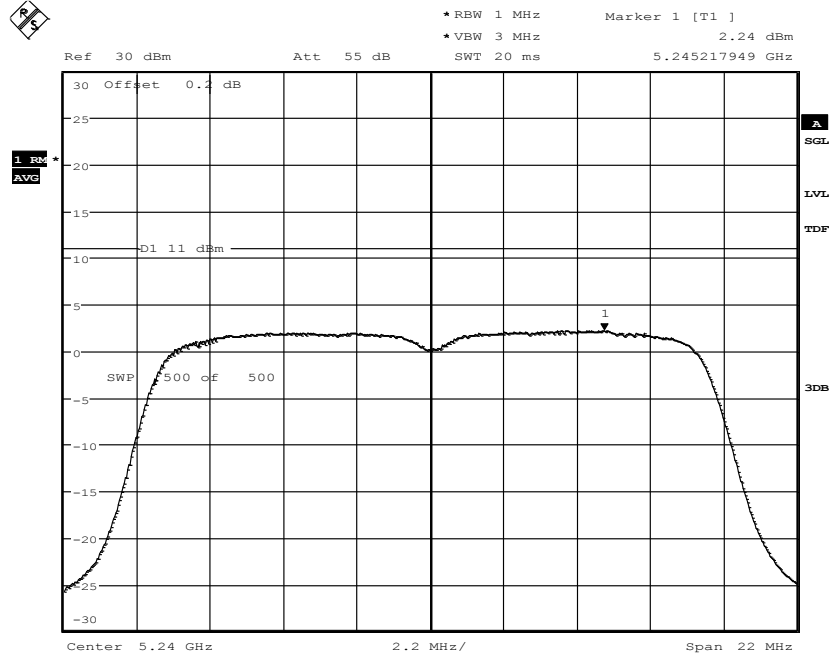
Date: 9.JUN.2016 10:54:13

### Diagram a-Mode 6Mbps Ch48:



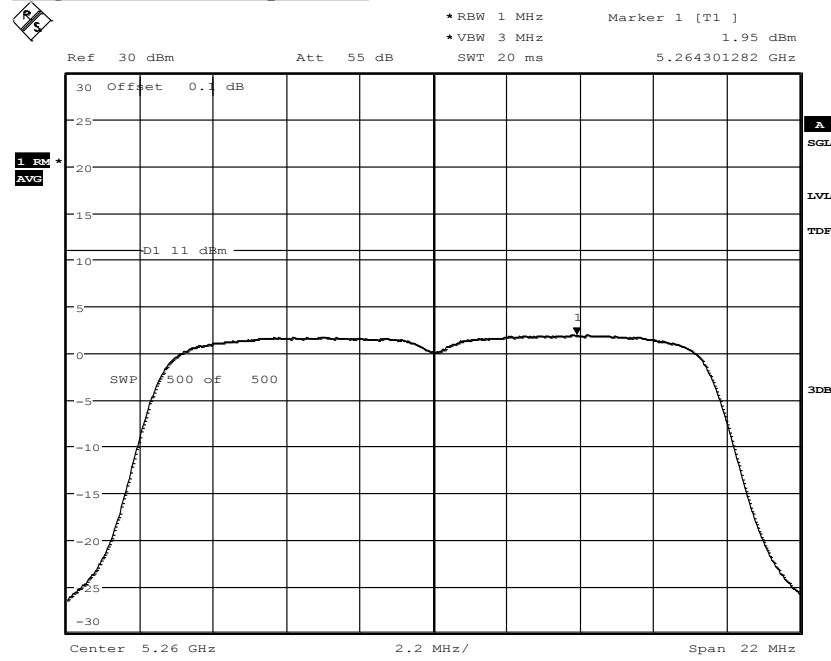
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### Diagram a-Mode 24Mbps Ch48:



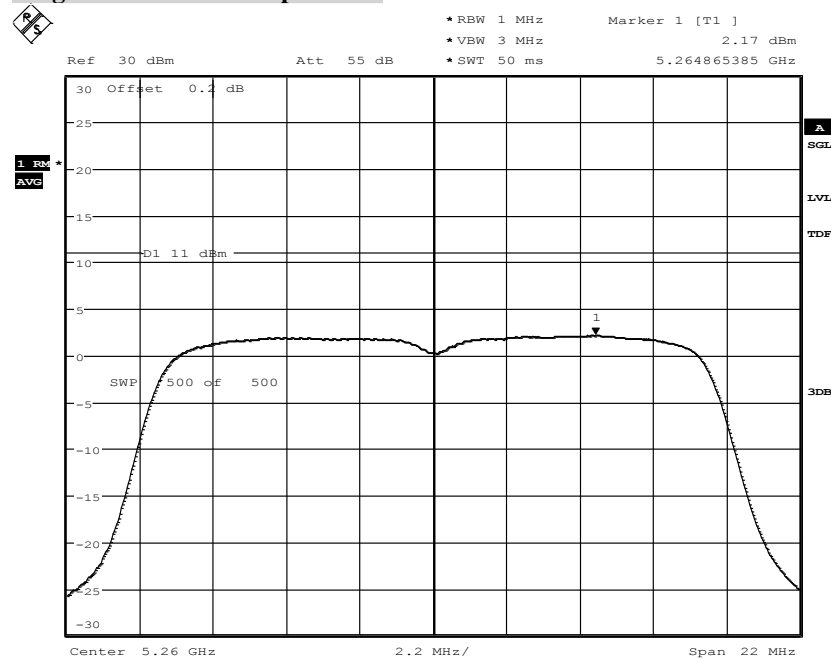
Date: 9.JUN.2016 10:56:14

### Diagram a-Mode 6Mbps Ch52:



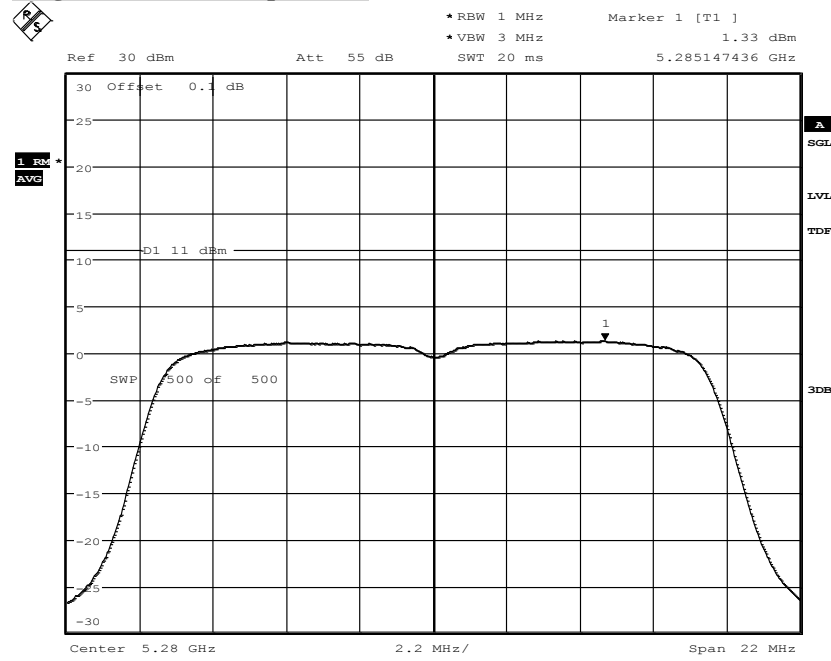
Date: 9.JUN.2016 11:03:10

### Diagram a-Mode 24Mbps Ch52:



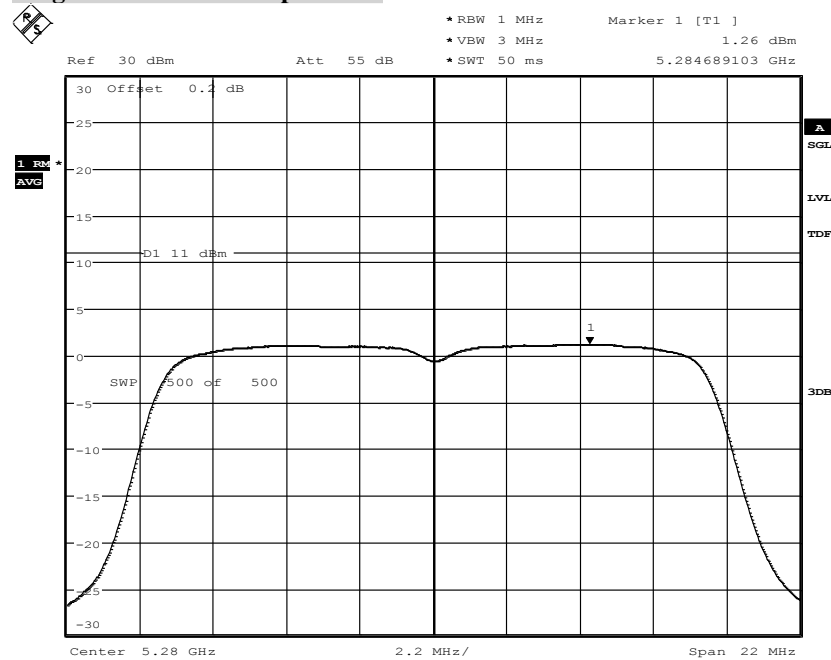
Date: 9.JUN.2016 11:33:49

### Diagram a-Mode 6Mbps Ch56:



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

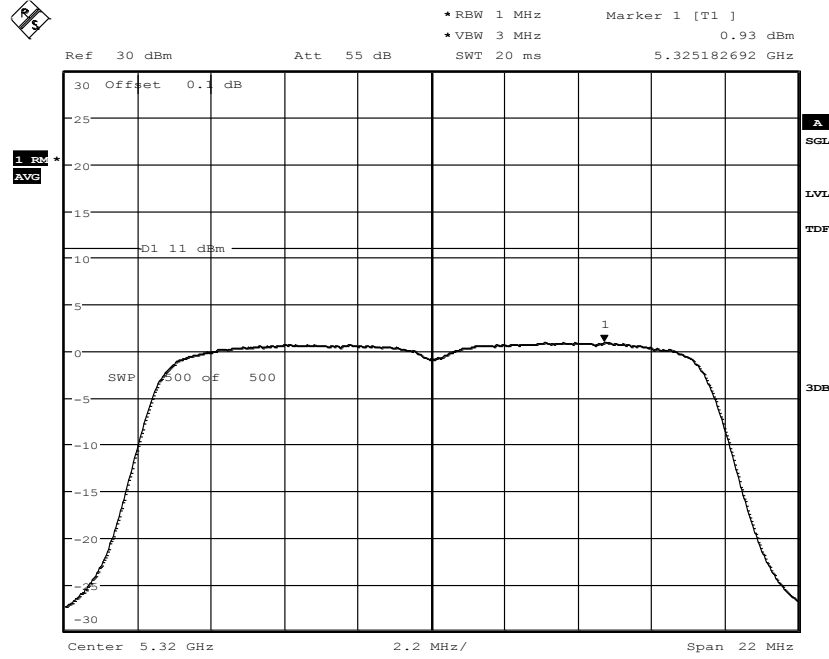
### Diagram a-Mode 24Mbps Ch56:



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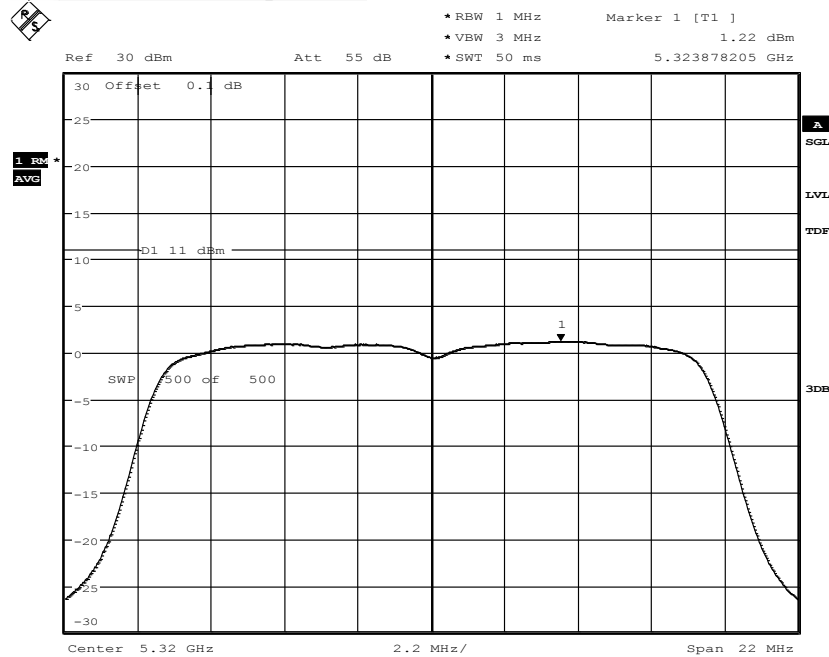


### Diagram a-Mode 6Mbps Ch64:



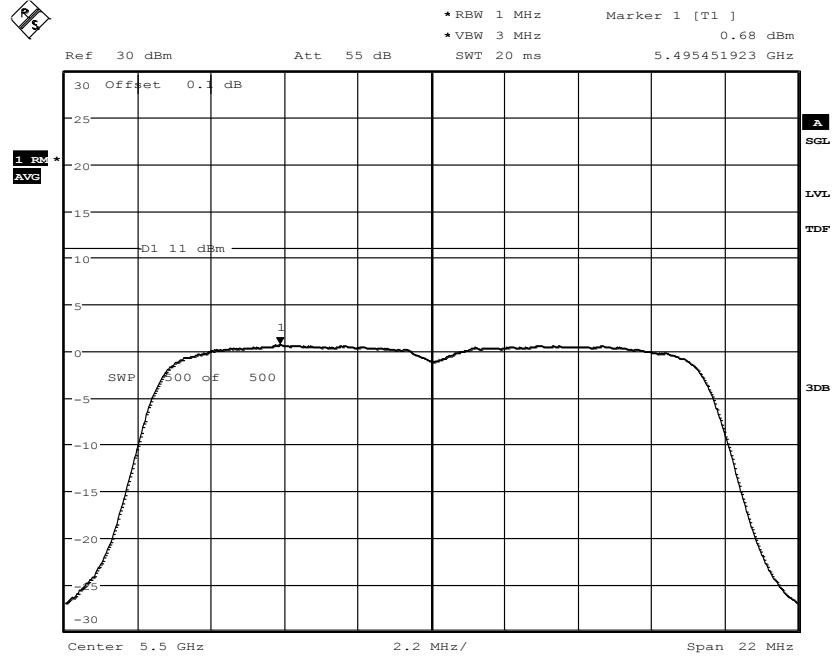
Date: 9.JUN.2016 11:08:58

### Diagram a-Mode 9Mbps Ch64:



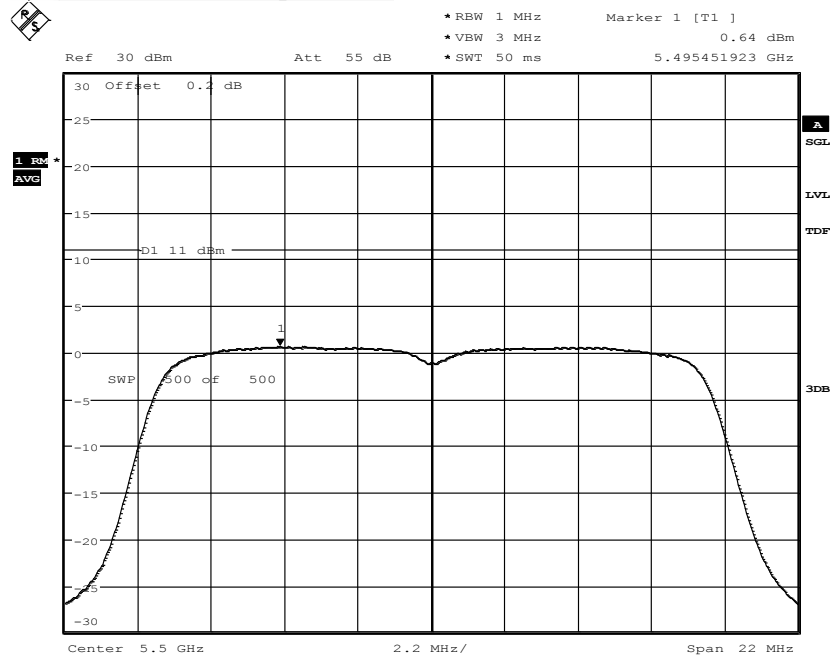
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### Diagram a-Mode 6Mbps Ch100:



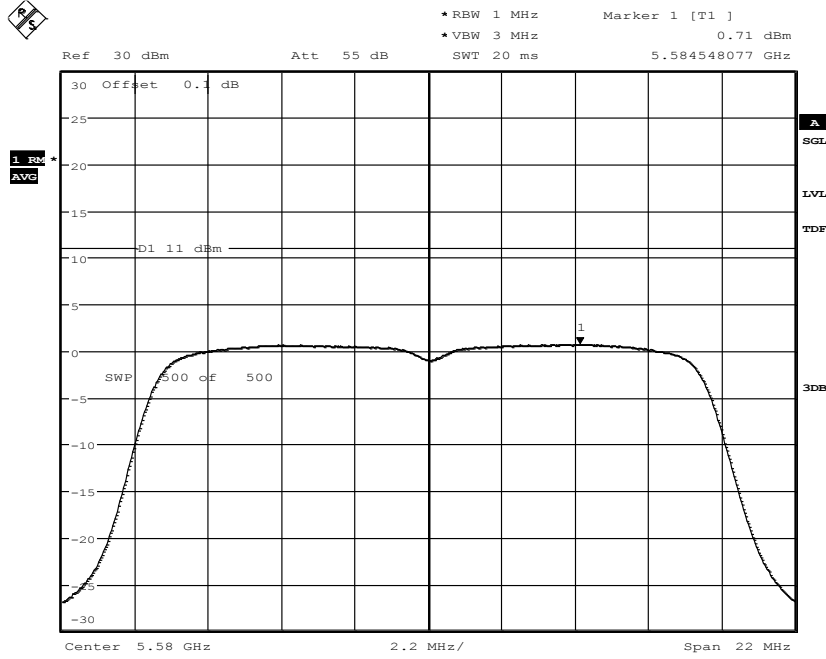
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### Diagram a-Mode 24Mbps Ch100:



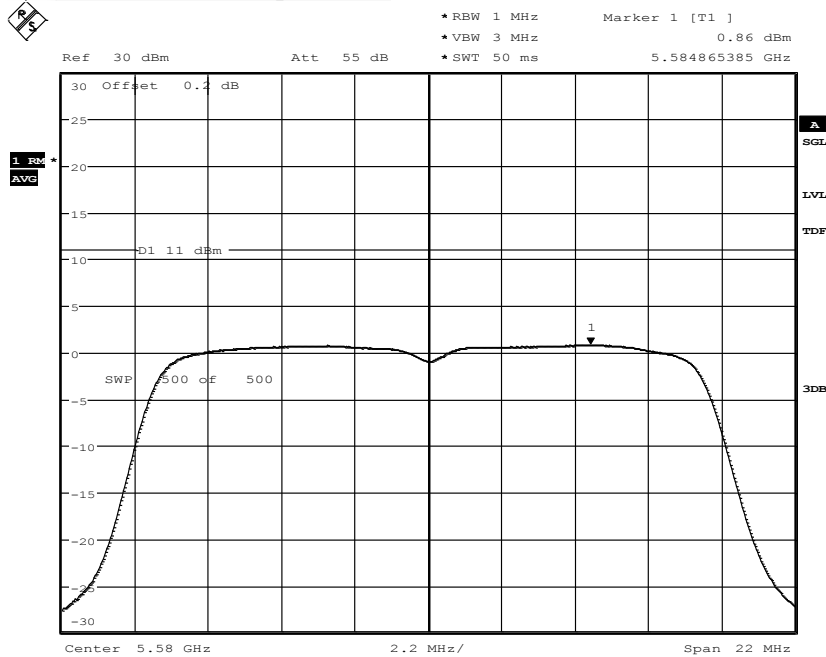
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### Diagram a-Mode 6Mbps Ch116:



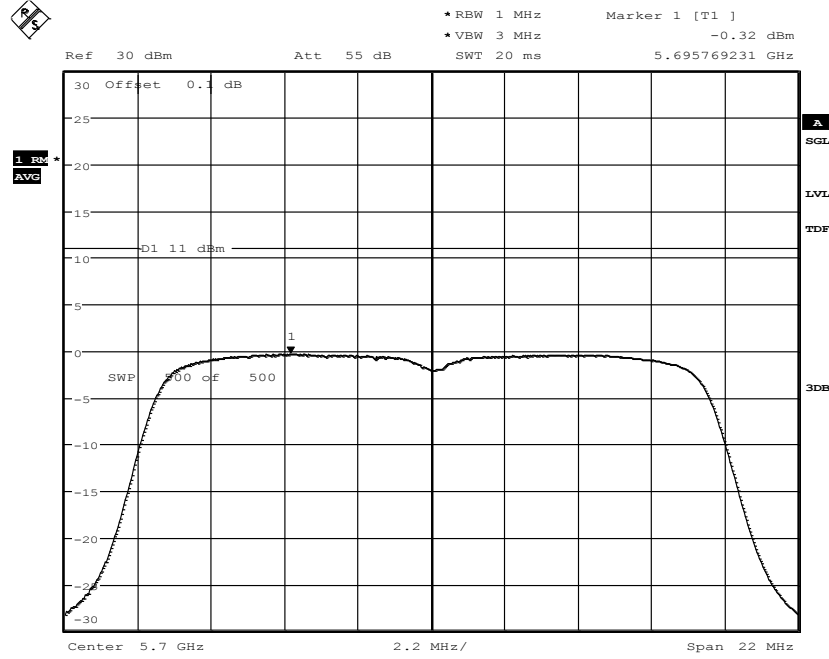
Date: 9.JUN.2016 11:15:38

### Diagram a-Mode 18Mbps Ch116:



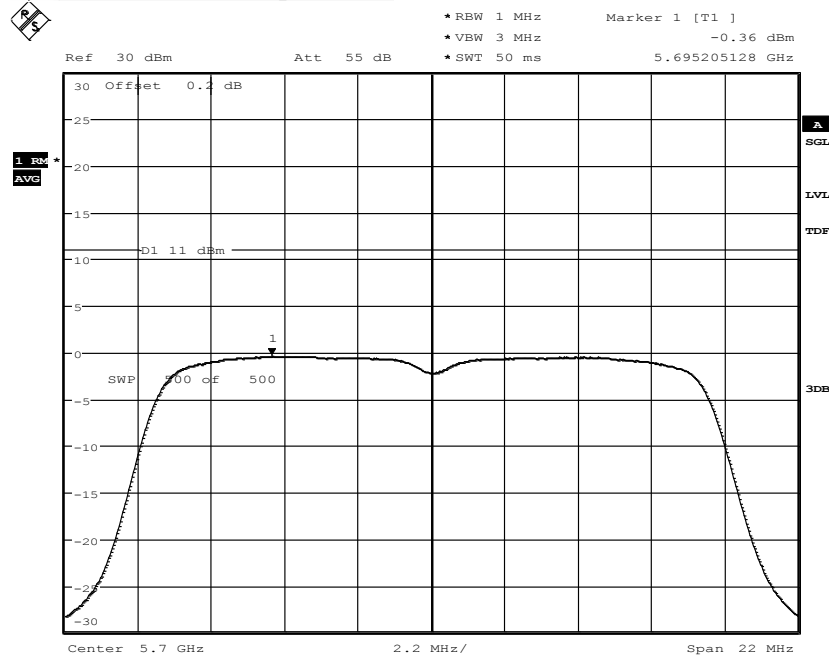
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### Diagram a-Mode 6Mbps Ch140:



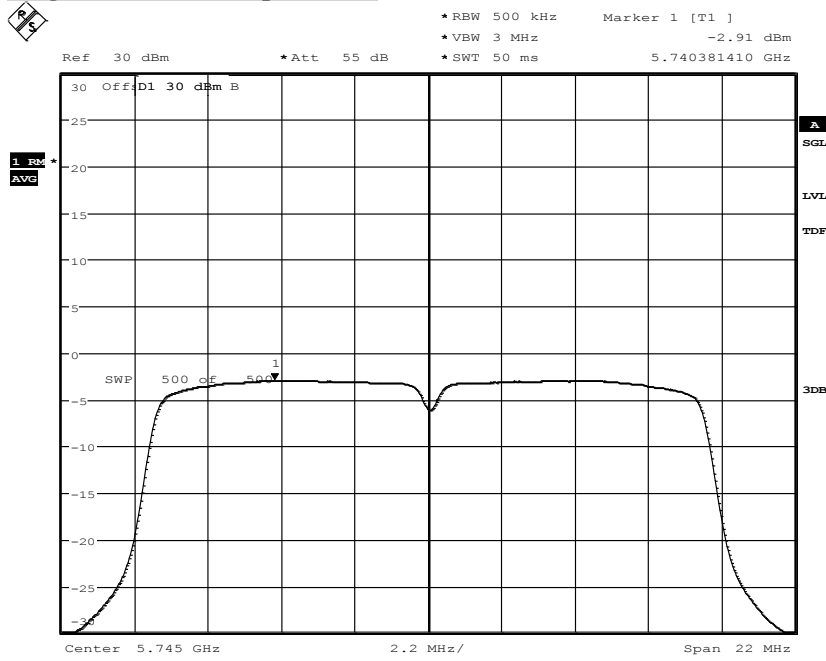
Date: 9.JUN.2016 11:20:02

### Diagram a-Mode 24Mbps Ch140:



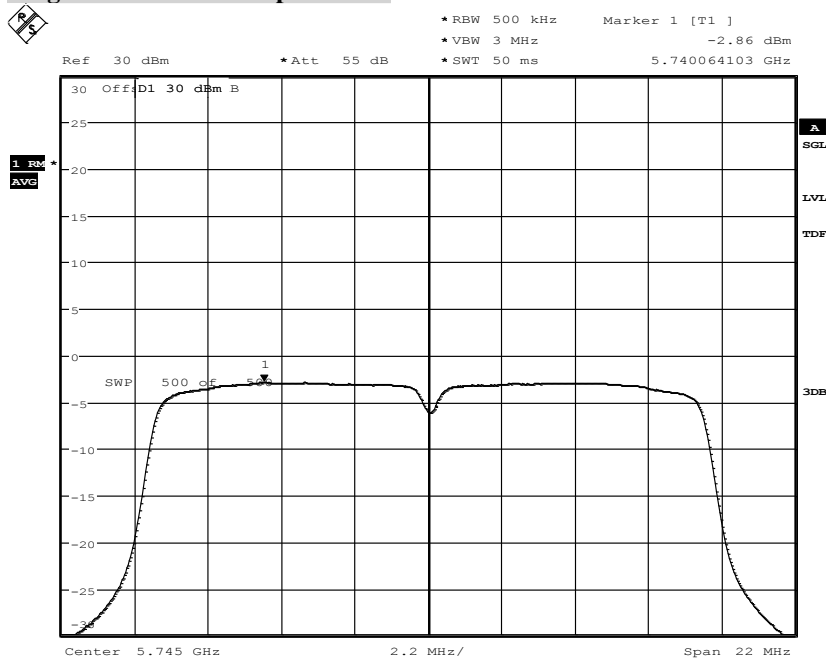
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### Diagram a-Mode 6Mbps Ch149:



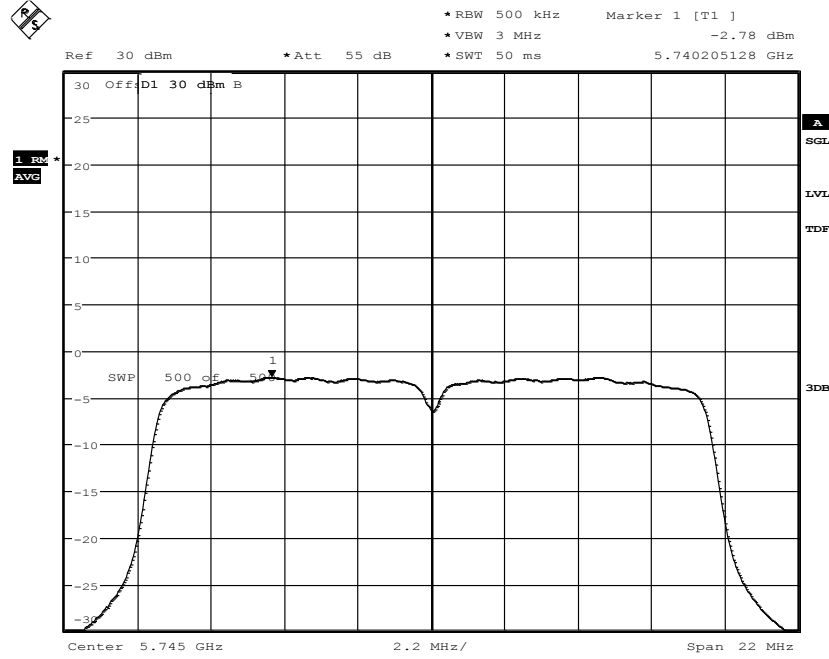
Date: 9.JUN.2016 13:57:05

### Diagram a-Mode 12Mbps Ch149:



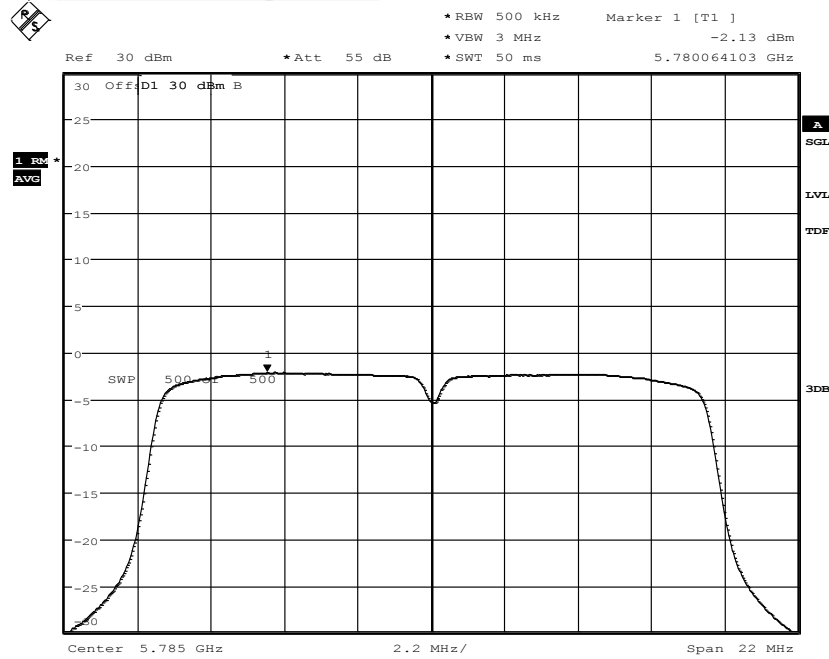
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### Diagram a-Mode 24Mbps Ch149:



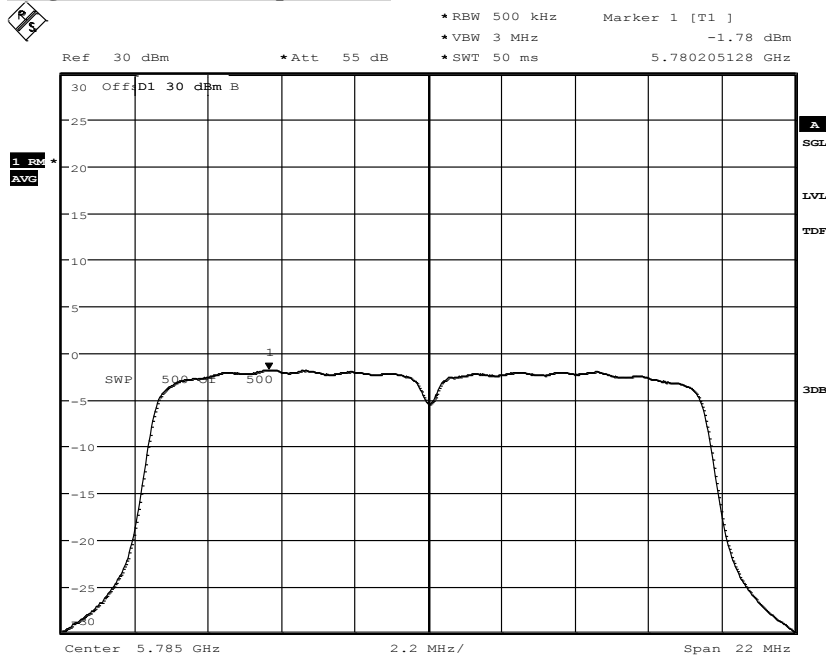
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### Diagram a-Mode 6Mbps Ch157:



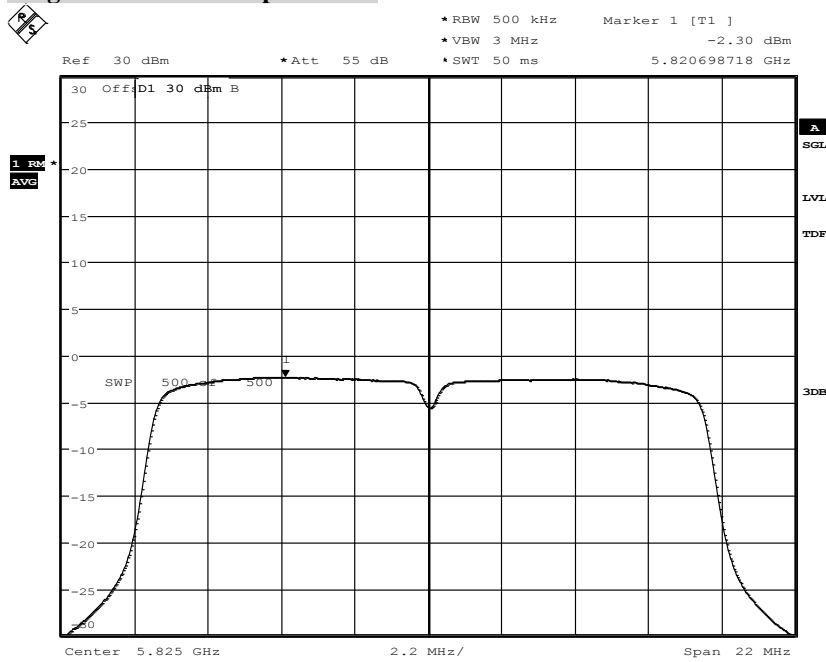
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### Diagram a-Mode 24Mbps Ch157:



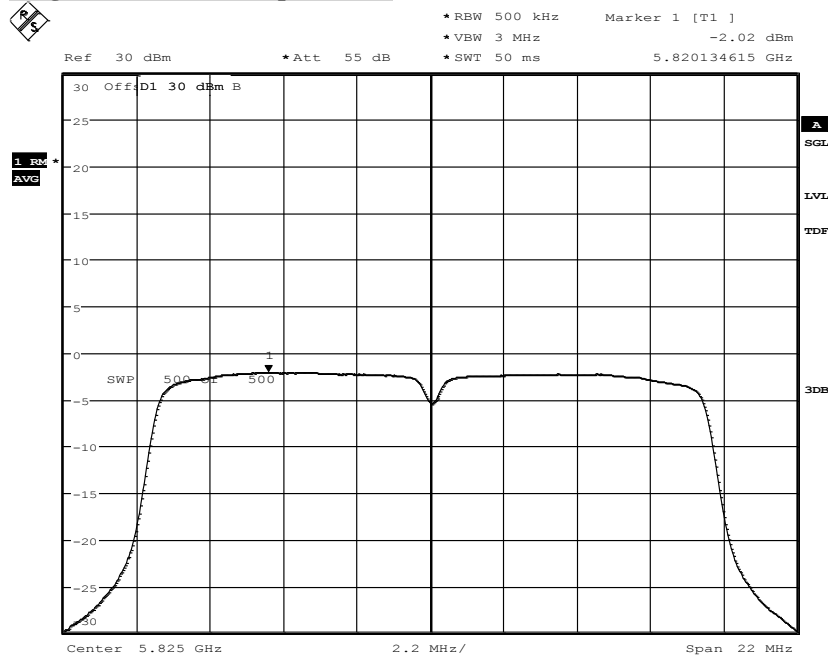
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### Diagram a-Mode 6Mbps Ch165:



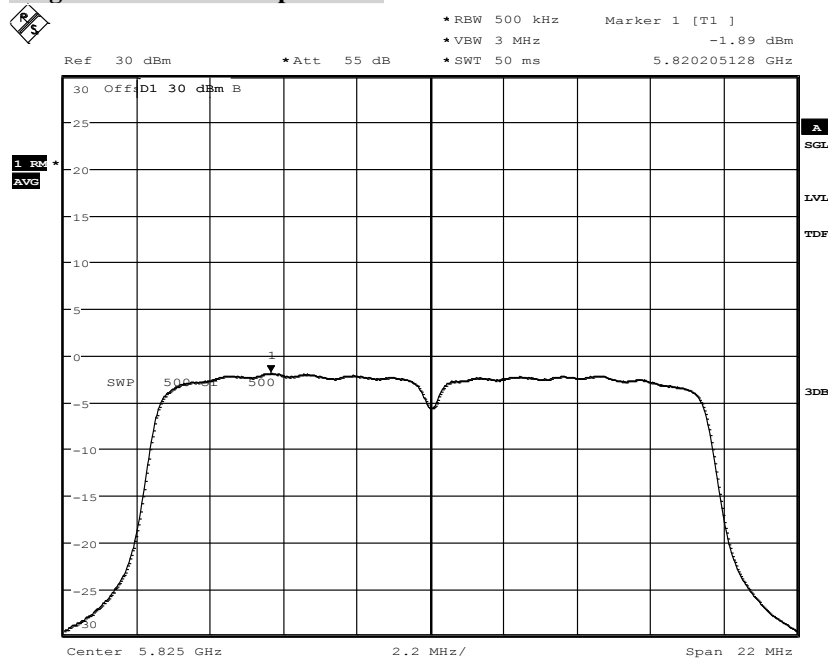
Date: 9.JUN.2016 13:34:55

### Diagram a-Mode 12Mbps Ch165:



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

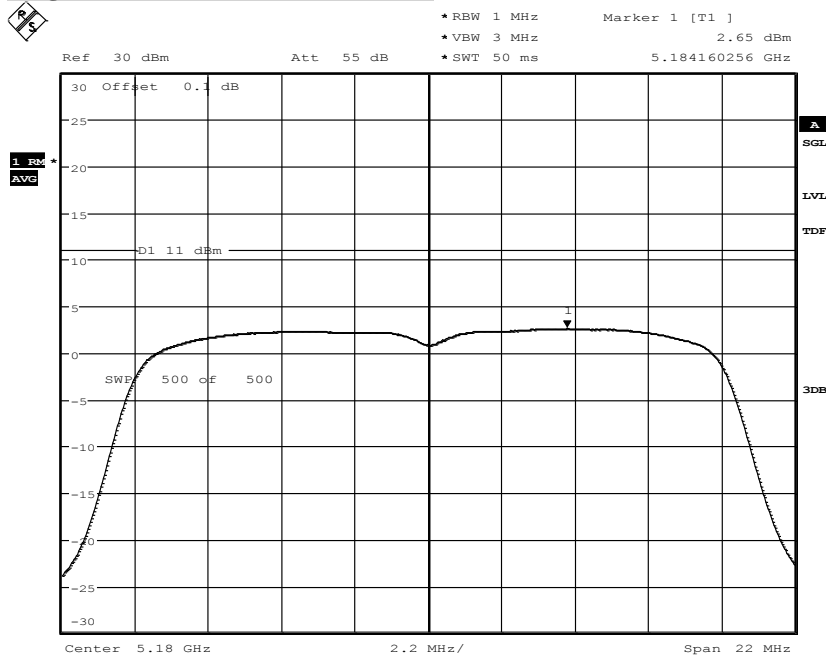
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Date: 9.JUN.2016 13:47:20

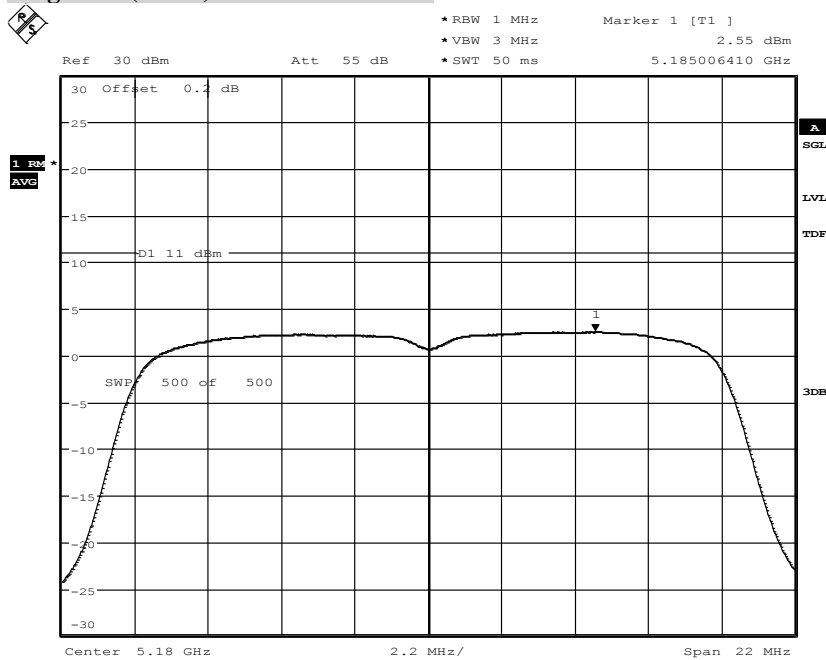


### Diagram n(HT20)-Mode MCS0 Ch36:



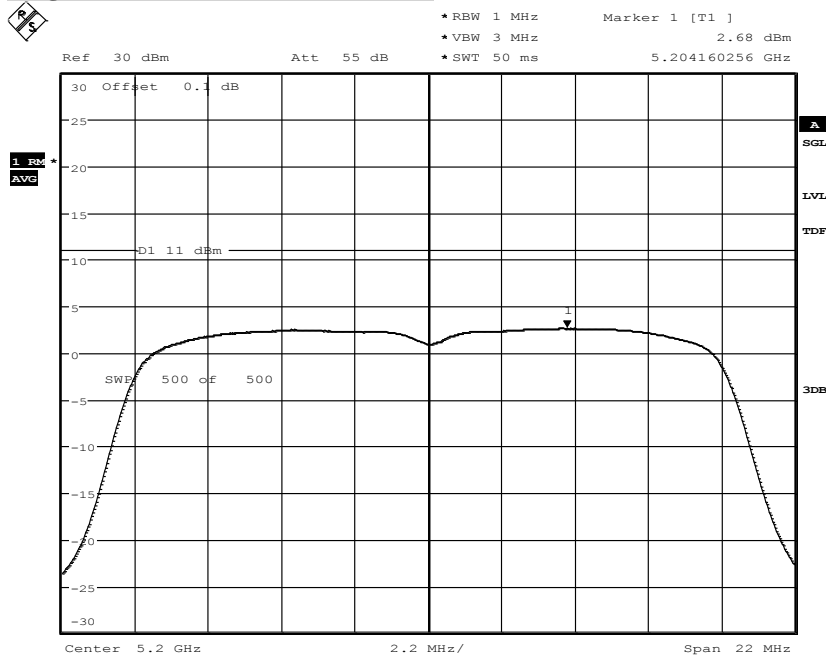
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### Diagram n(HT20)-Mode MCS2 Ch36:



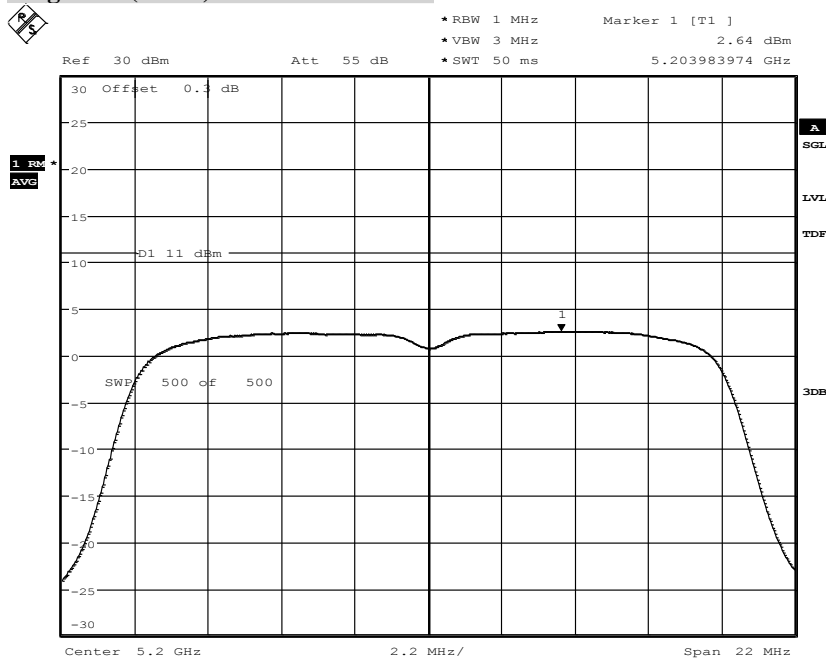
Date: 9.JUN.2016 12:23:39

### Diagram n(HT20)-Mode MCS0 Ch40:



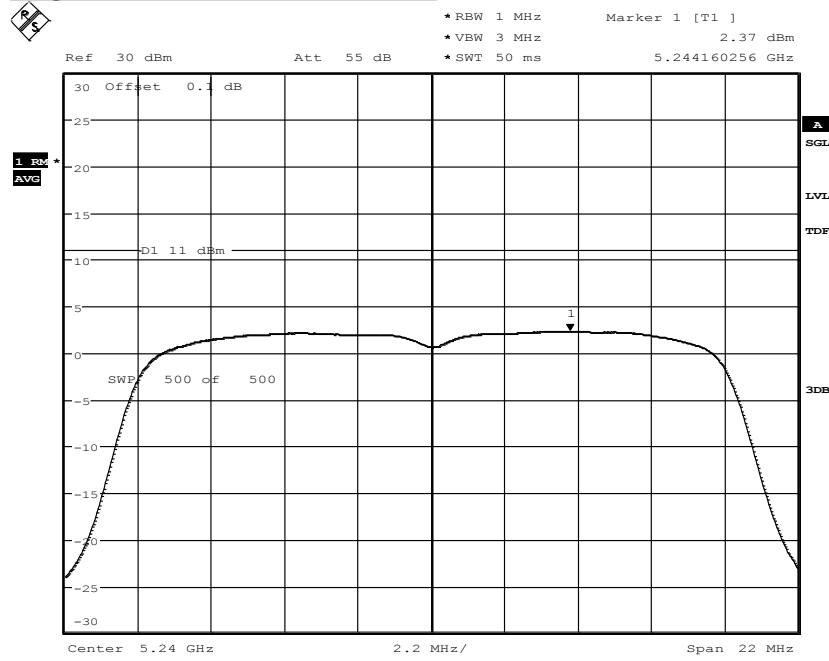
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### Diagram n(HT20)-Mode MCS3 Ch40:



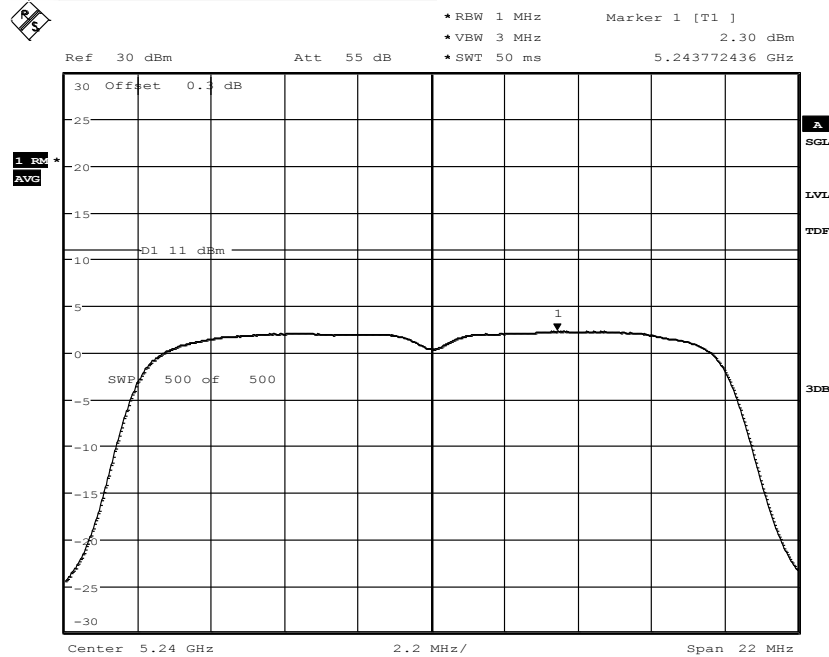
Date: 9.JUN.2016 12:20:16

### Diagram n(HT20)-Mode MCS0 Ch48:



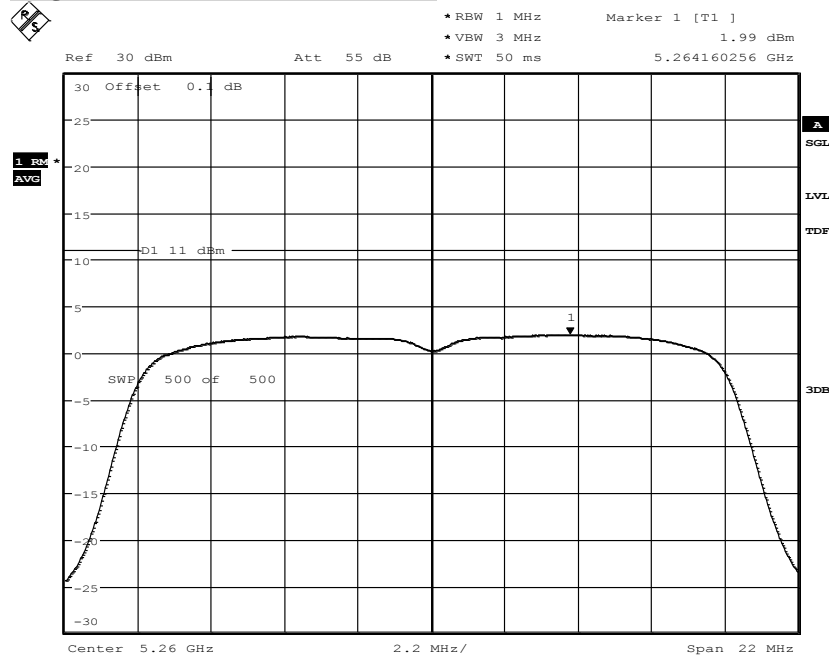
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### Diagram n(HT20)-Mode MCS3 Ch48:



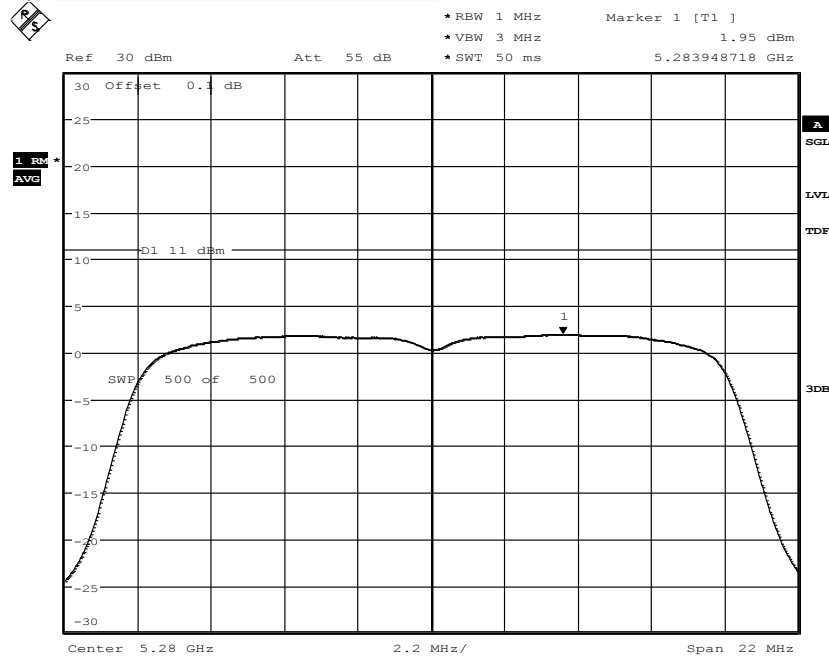
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### Diagram n(HT20)-Mode MCS0 Ch52:



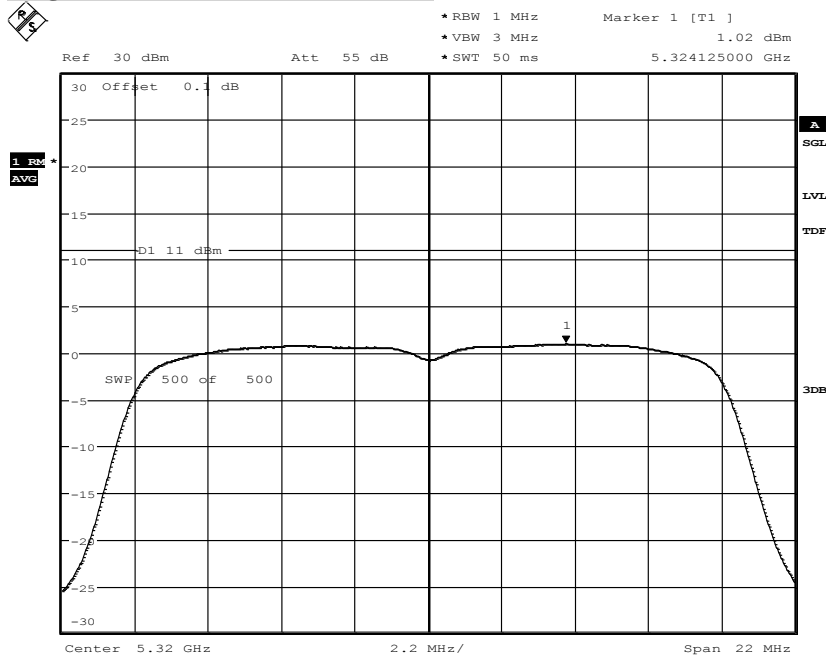
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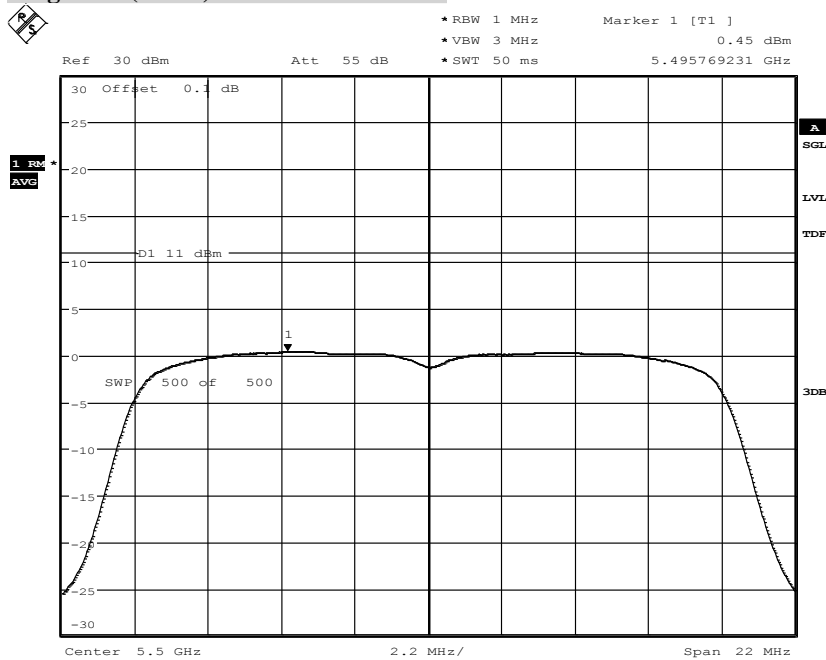
Date: 9.JUN.2016 11:57:17

### Diagram n(HT20)-Mode MCS0 Ch64:



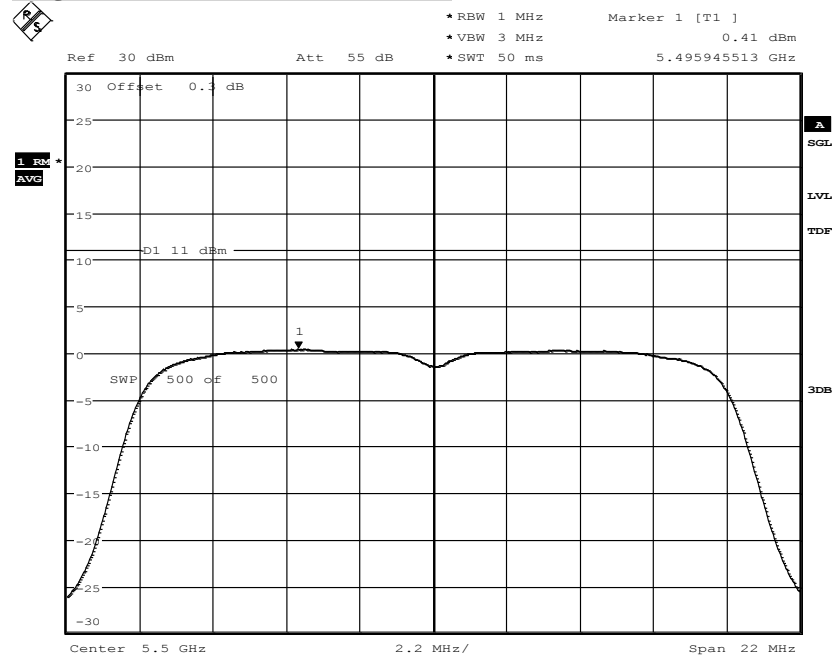
Date: 9.JUN.2016 11:59:04

### Diagram n(HT20)-Mode MCS0 Ch100:



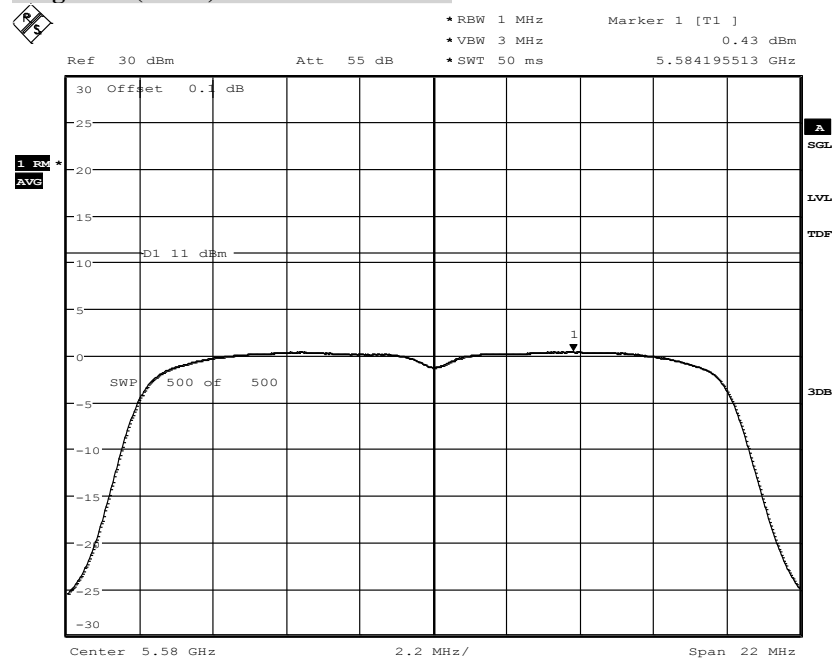
Date: 9.JUN.2016 12:01:02

### Diagram n(HT20)-Mode MCS3 Ch100:



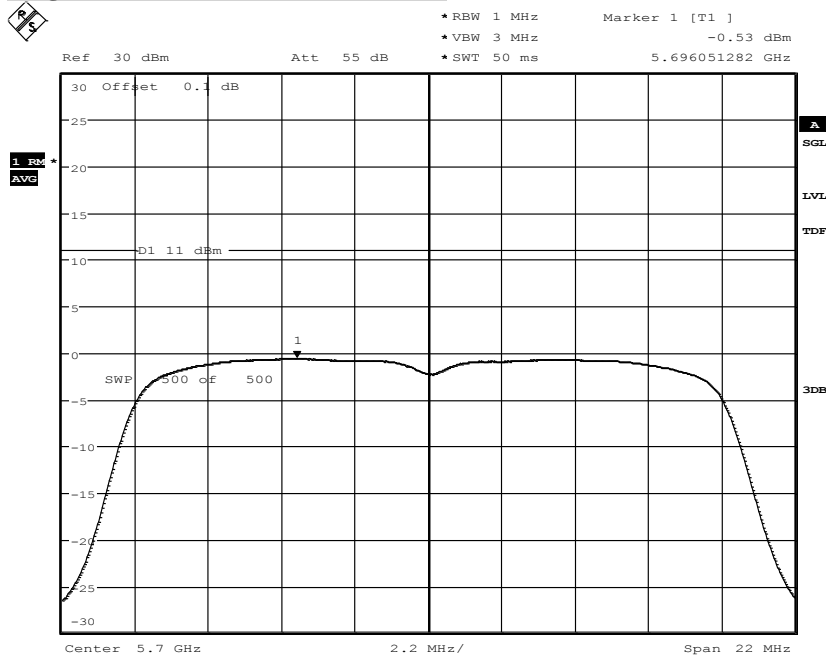
Date: 9.JUN.2016 12:14:28

### Diagram n(HT20)-Mode MCS0 Ch116:



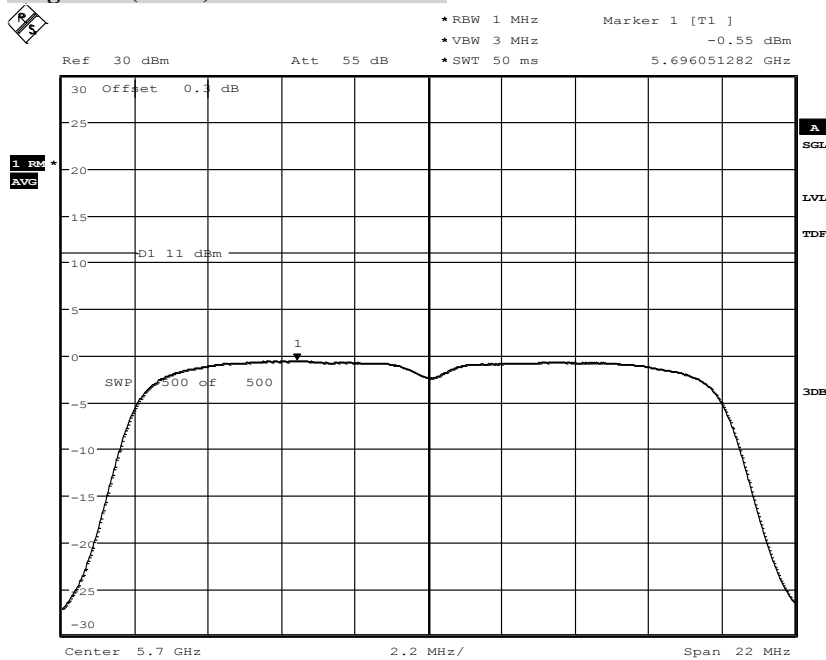
Date: 9.JUN.2016 12:03:37

### Diagram n(HT20)-Mode MCS0 Ch140:



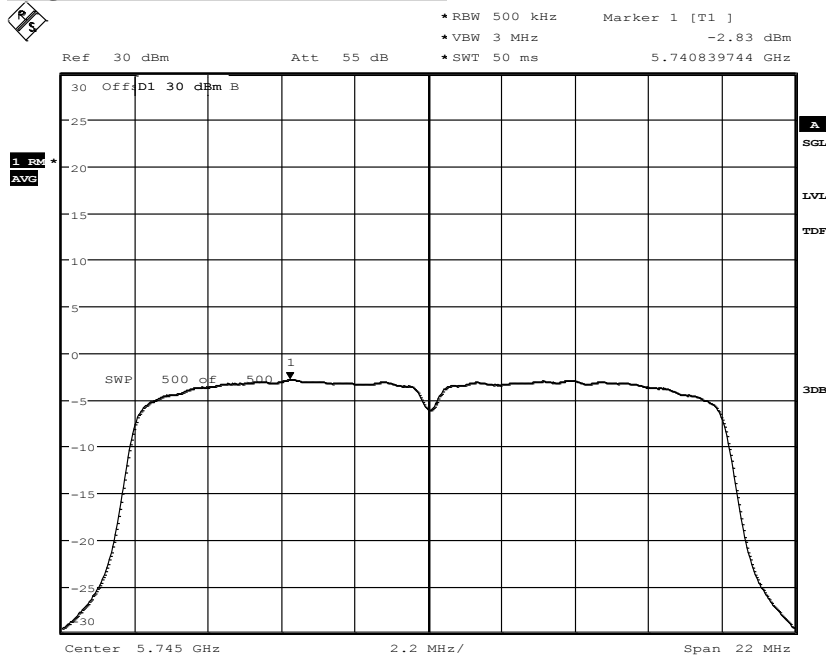
Date: 9.JUN.2016 12:05:34

### Diagram n(HT20)-Mode MCS3 Ch140:



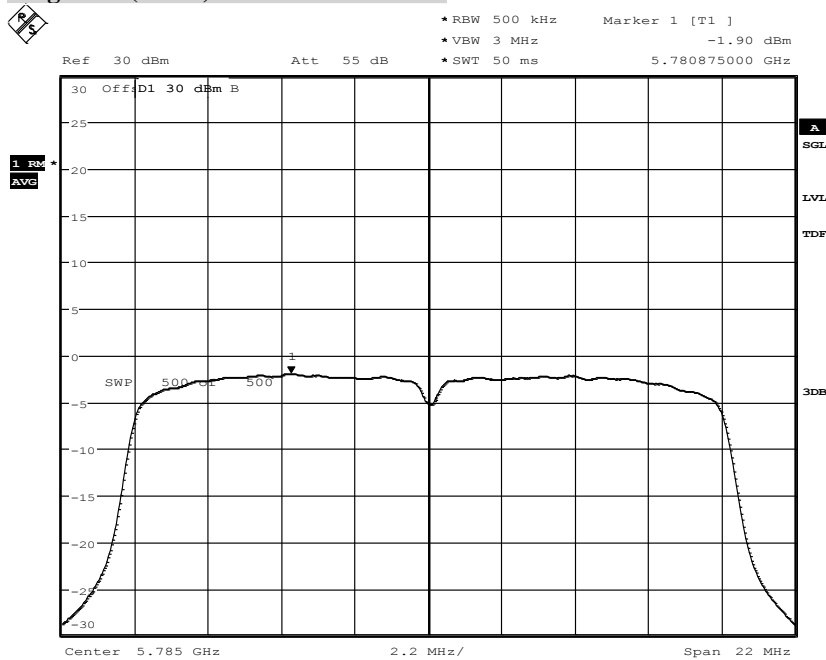
Date: 9.JUN.2016 12:11:29

### Diagram n(HT20)-Mode MCS0 Ch149:



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

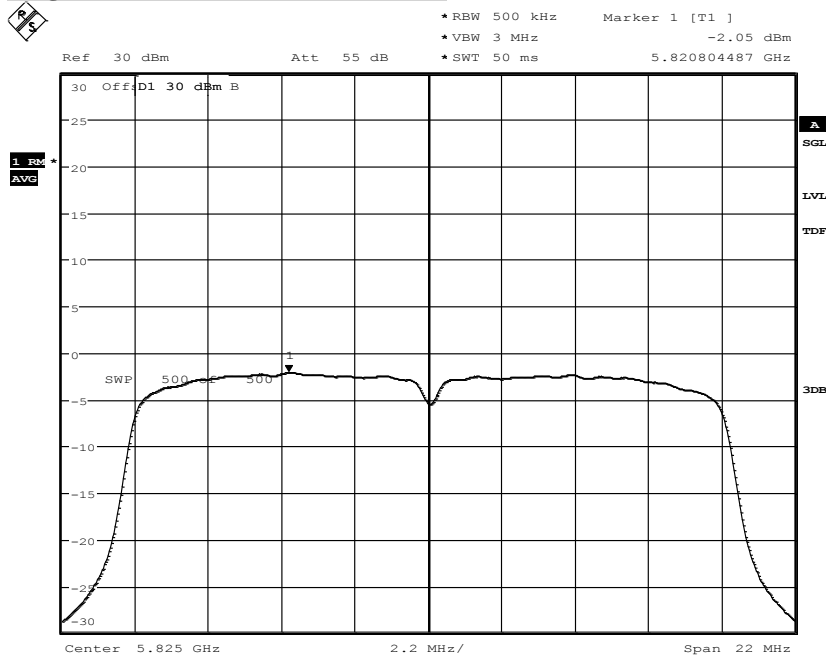
### Diagram n(HT20)-Mode MCS0 Ch157:



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

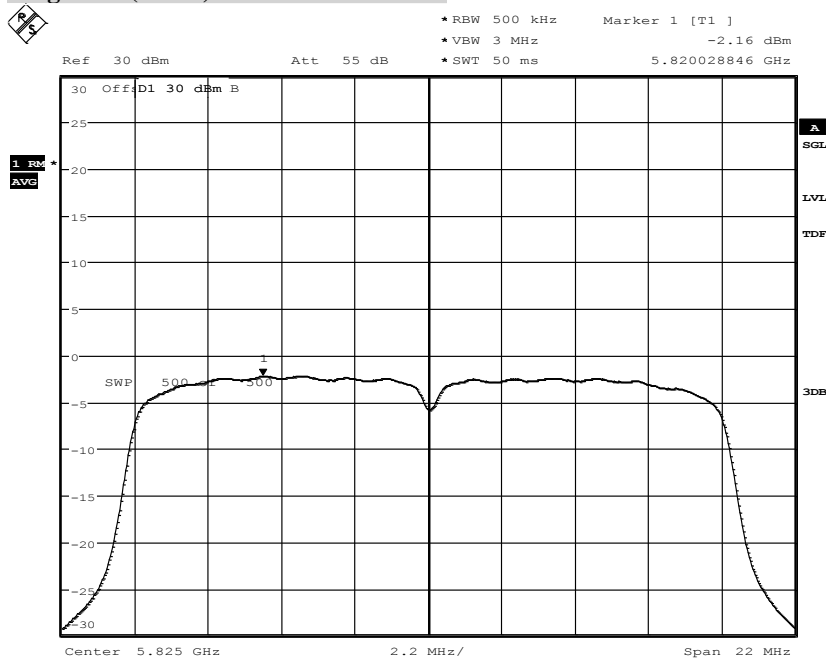


### Diagram n(HT20)-Mode MCS0 Ch165:



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: 2.11\_WLAN\_n(HT20) mode\_MCS0\_Ch100\_9kHz - 30 MHz

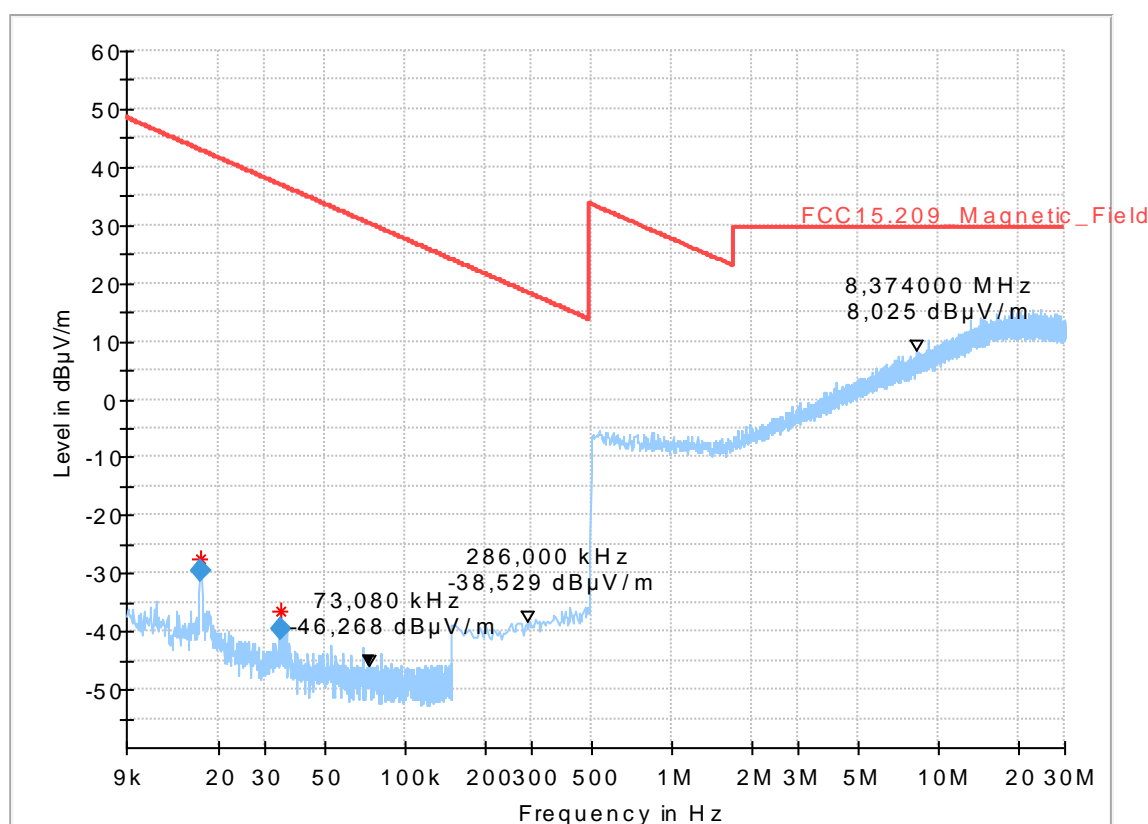
#### Common Information

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:	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:	MFr
Operating conditions:	TX-on WLAN 802.11 n-mode, BW 20 MHz channel 100; MCS0;
Power during tests:	full charged battery

#### EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



**Final Result**

Frequency (MHz)	RMS (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017160	-29.71	42.91	72.61	1000.0	0.200	100.0	H	25.0	-58.7
0.034200	-39.56	36.92	76.48	1000.0	0.200	100.0	H	141.0	-59.5

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

### Diagram No: 3.11\_WLAN\_n(HT20) mode\_MCS0\_Ch100\_30 MHz - 1 GHz\_

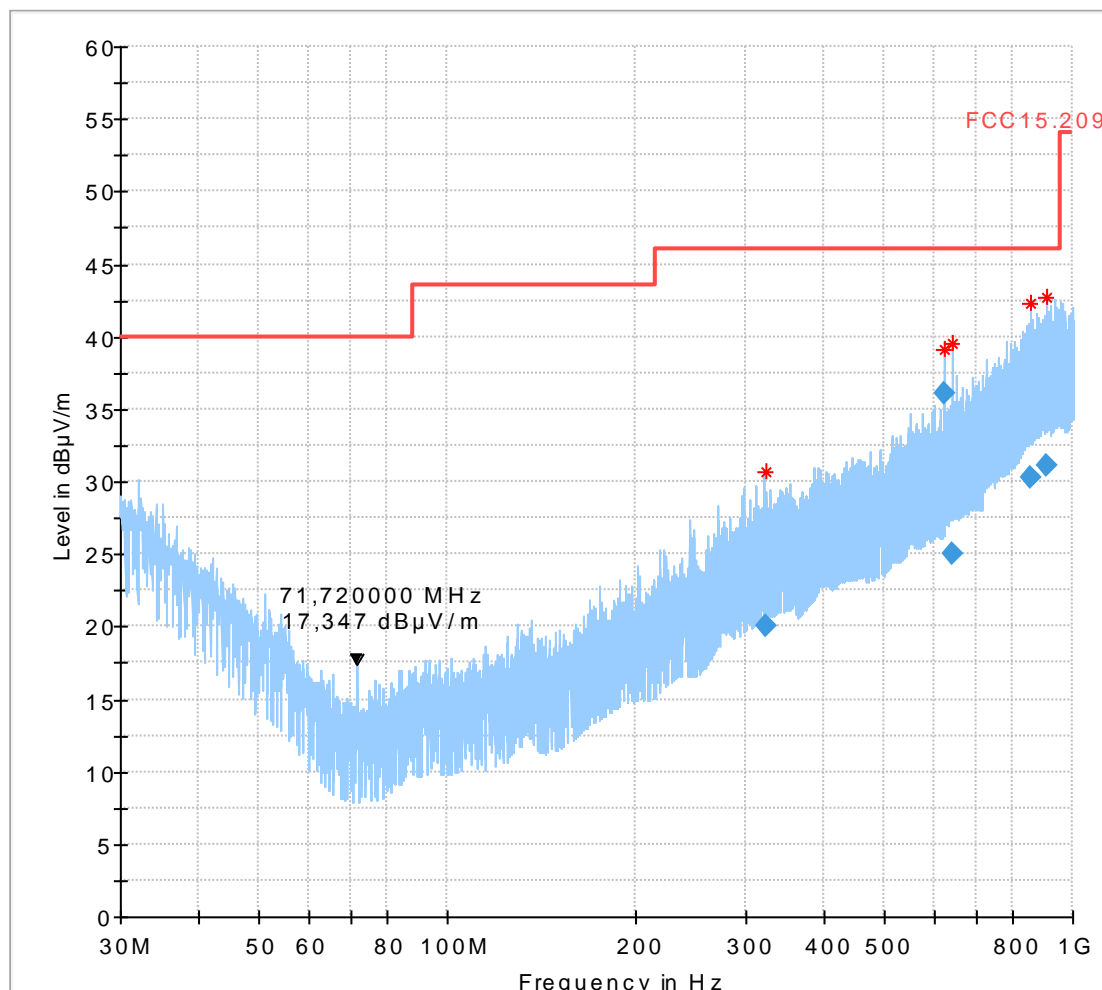
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

#### Full Spectrum



**Final\_Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
322.620000	20.00	46.00	26.00	1000.0	120.000	251.0	H	265.0	0.0	16.0
623.980000	36.02	46.00	9.98	1000.0	120.000	109.0	H	96.0	0.0	22.3
640.890000	24.97	46.00	21.03	1000.0	120.000	199.0	H	173.0	90.0	23.2
857.610000	30.28	46.00	15.72	1000.0	120.000	150.0	H	146.0	90.0	25.8
910.870000	31.06	46.00	14.94	1000.0	120.000	129.0	V	359.0	0.0	26.6

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

Diagram No: 4.11\_WLAN 802.11\_n(HT20)\_MCS0\_CH100

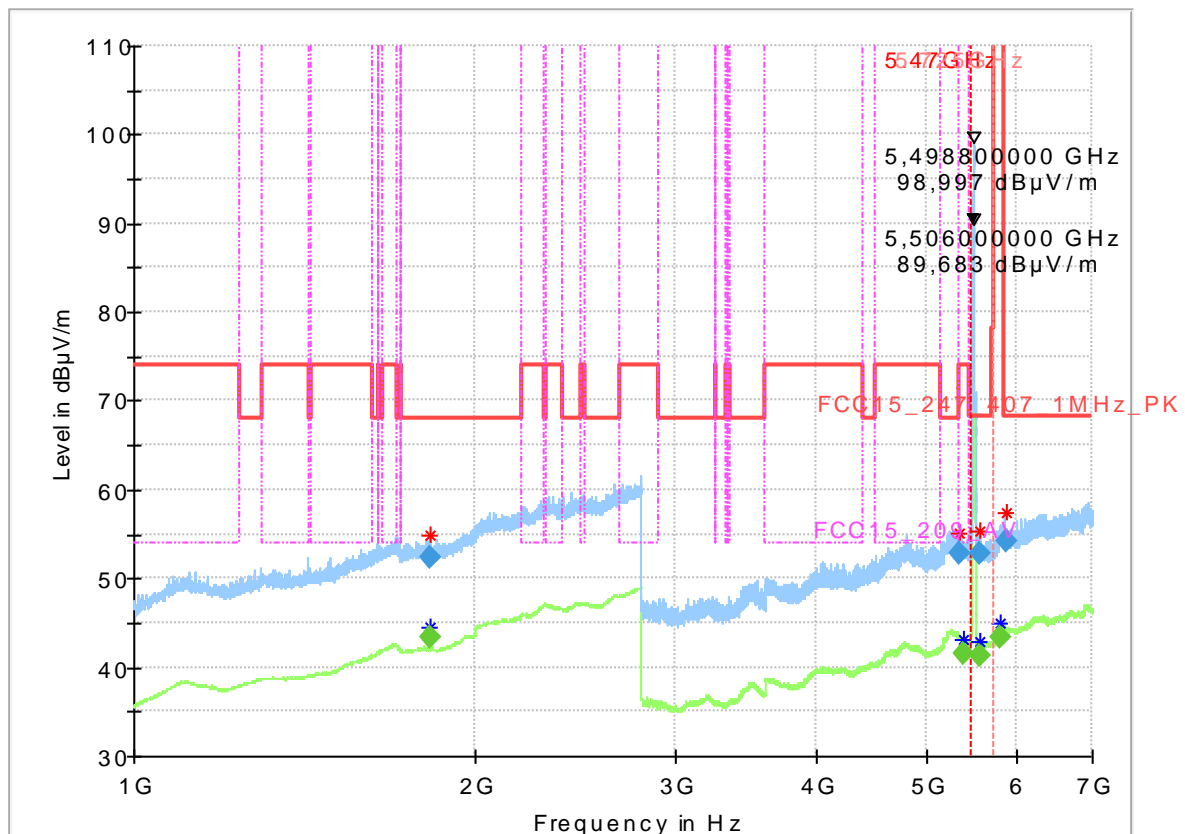
### Common Information

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-on WLAN 802.11 n(HT20), channel 100; Data rate MCS0
Operator Name:	KMo

### EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	B00AN00HLOHT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
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)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1823.600000	52.35	---	68.00	15.65	100.0	1000.000	155.0	H	348.0	90.0
1825.600000	---	43.30	150.00	106.70	100.0	1000.000	155.0	V	202.0	0.0
5344.250000	52.80	---	68.00	15.20	100.0	1000.000	155.0	V	248.0	90.0
5395.050000	---	41.47	54.00	12.53	100.0	1000.000	155.0	H	65.0	0.0
5576.800000	---	41.37	150.00	108.63	100.0	1000.000	155.0	V	304.0	90.0
5582.950000	52.92	---	68.20	15.28	100.0	1000.000	155.0	V	208.0	90.0
5807.600000	---	43.42	150.00	106.58	100.0	1000.000	155.0	H	359.0	0.0
5878.150000	54.30	---	68.20	13.90	100.0	1000.000	155.0	V	157.0	0.0

(continuation of the "Final\_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
1823.600000	38.1	01:34:14 - 26.04.2016
1825.600000	38.1	01:42:10 - 26.04.2016
5344.250000	12.2	01:35:54 - 26.04.2016
5395.050000	11.7	01:39:06 - 26.04.2016
5576.800000	11.5	01:43:43 - 26.04.2016
5582.950000	11.6	01:37:22 - 26.04.2016
5807.600000	13.5	01:40:32 - 26.04.2016
5878.150000	13.2	01:32:29 - 26.04.2016

### Diagram No: 4.11a\_WLAN 802.11\_n(HT20)\_MCS0\_CH100\_7GHz\_18GHz

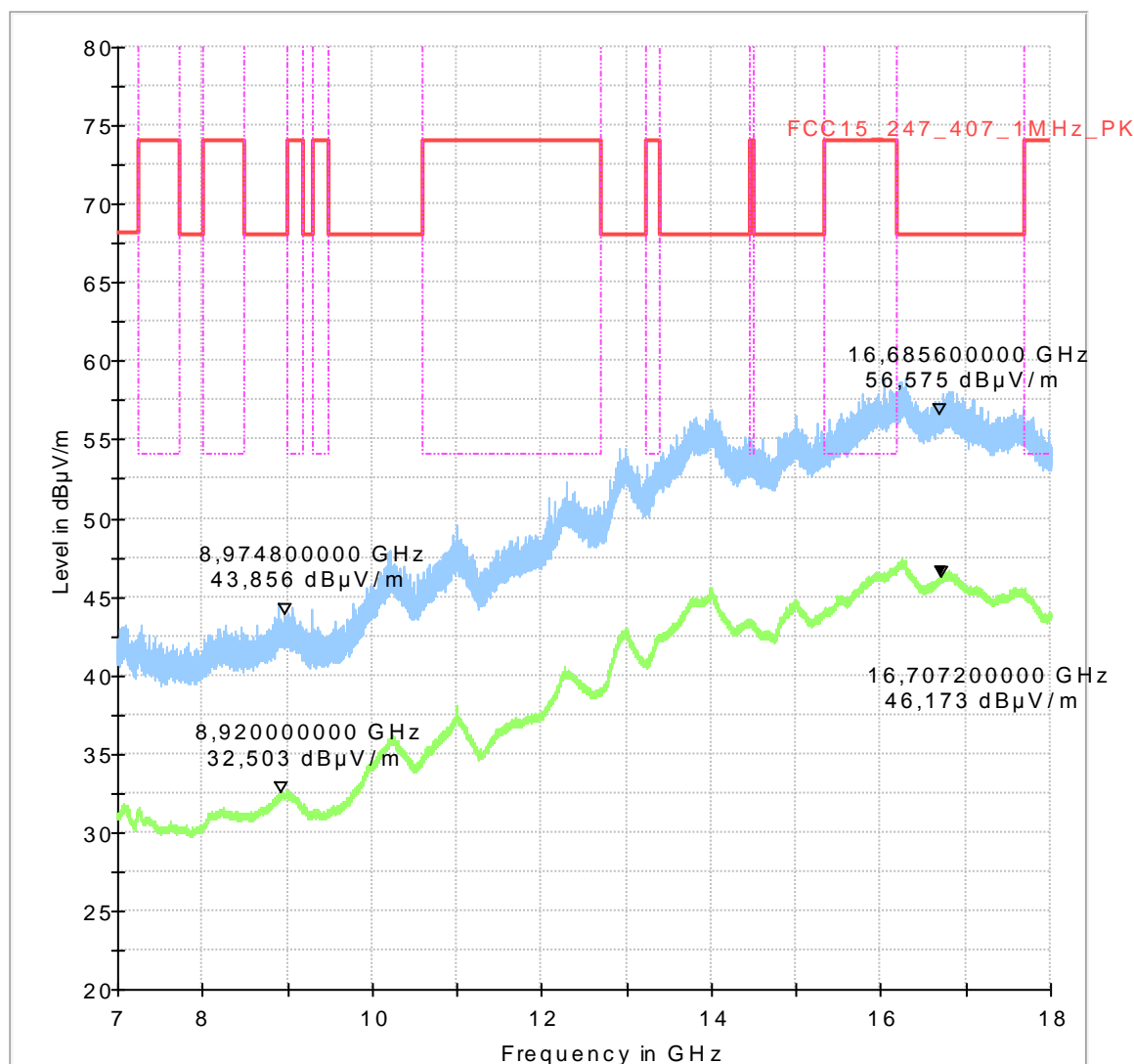
#### Common Information

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;

#### EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	B00AN00HLOHT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum





### Diagram No: 4.11b\_WLAN 802.11\_n(HT20)\_MCS0\_CH100\_18GHz\_40GHz

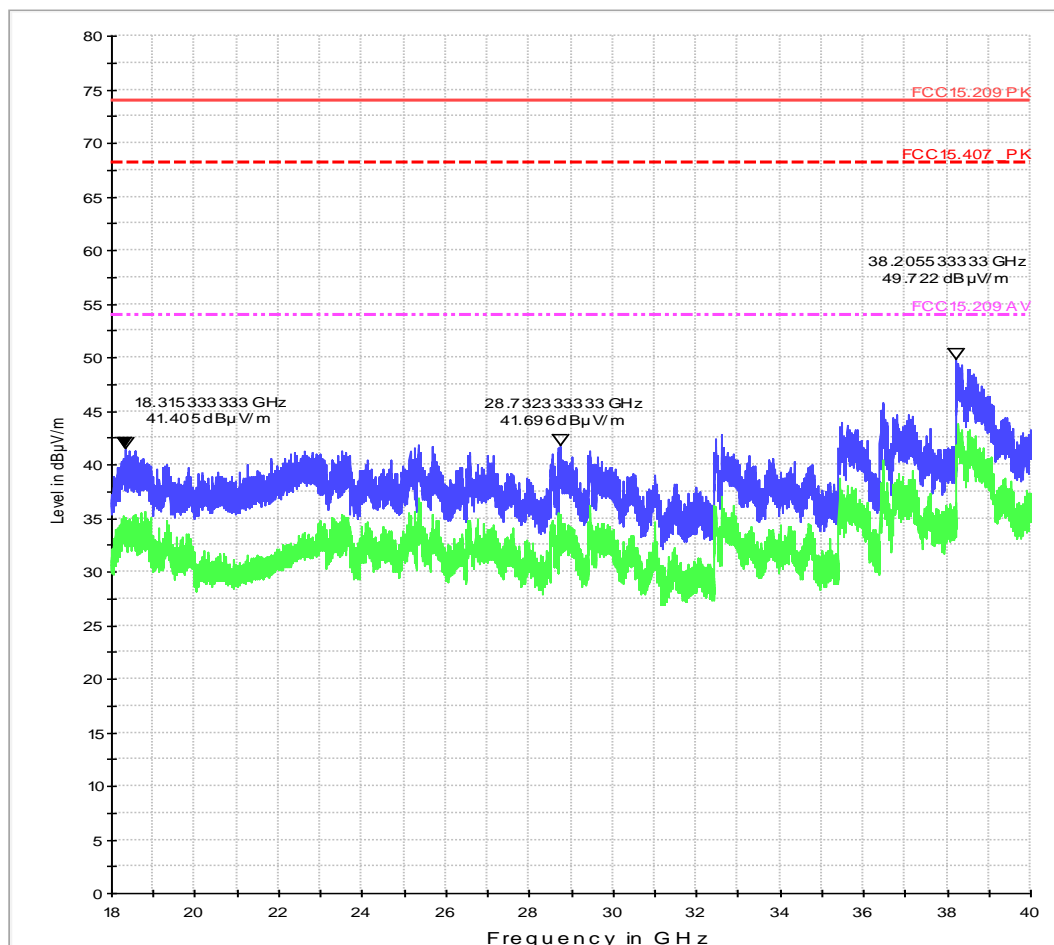
#### Common Information

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 CH100-nMode-MCS0
Operator Name:	TFR

#### EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

FCC\_Sweep\_15.407\_18\_40GHz\_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

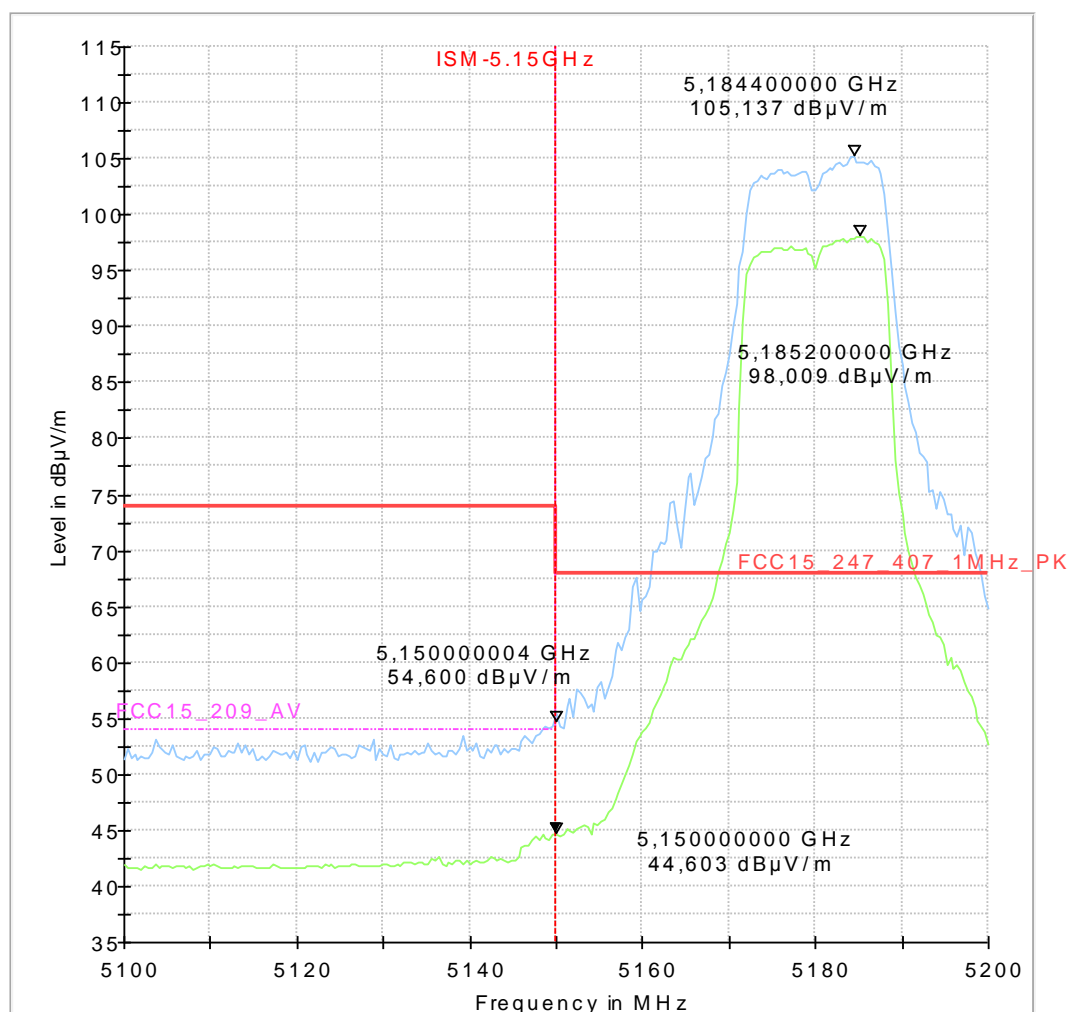
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum





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

Diagram No: 9.15\_BE\_Low\_a mode\_6 Mbps\_CH100

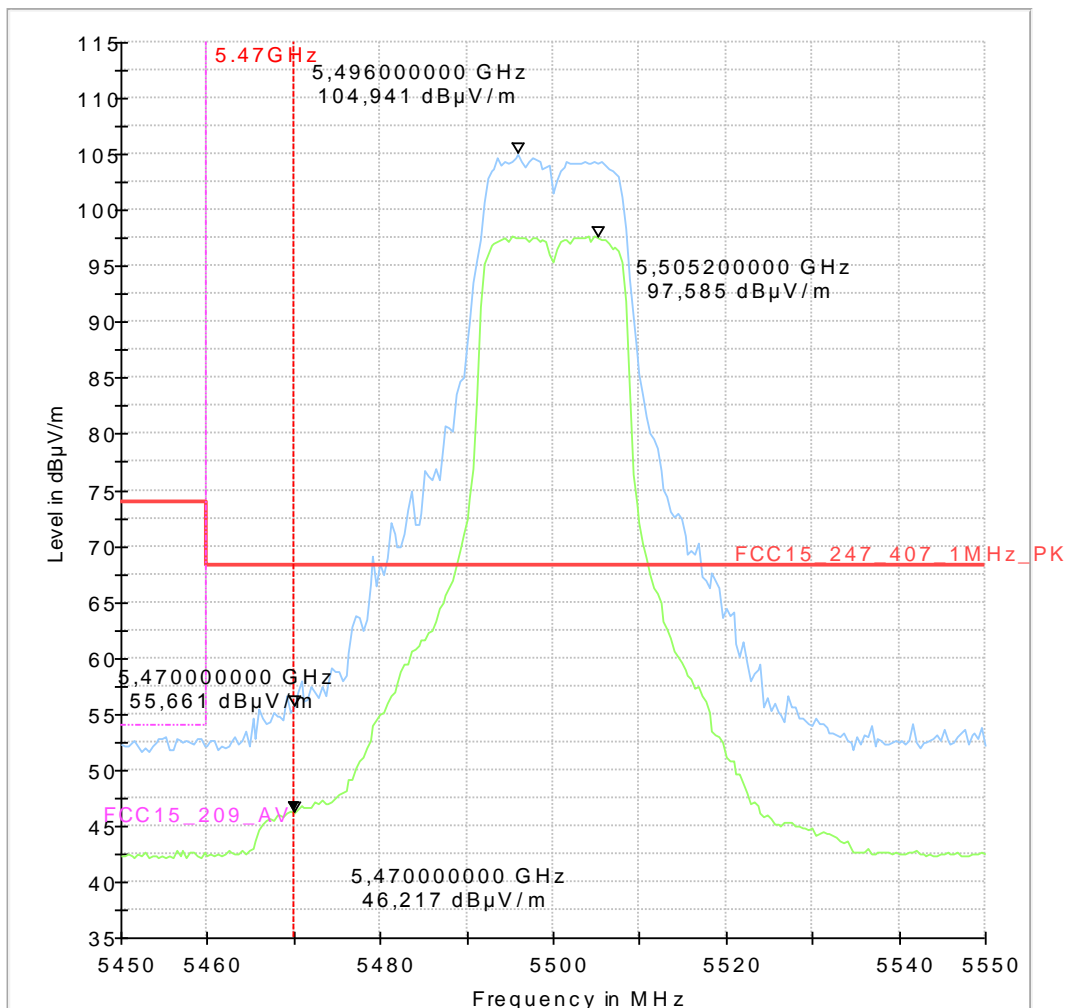
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



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

**Diagram No: 9.16-BE\_High\_WLAN\_TX\_6 Mbps\_ CH 140**

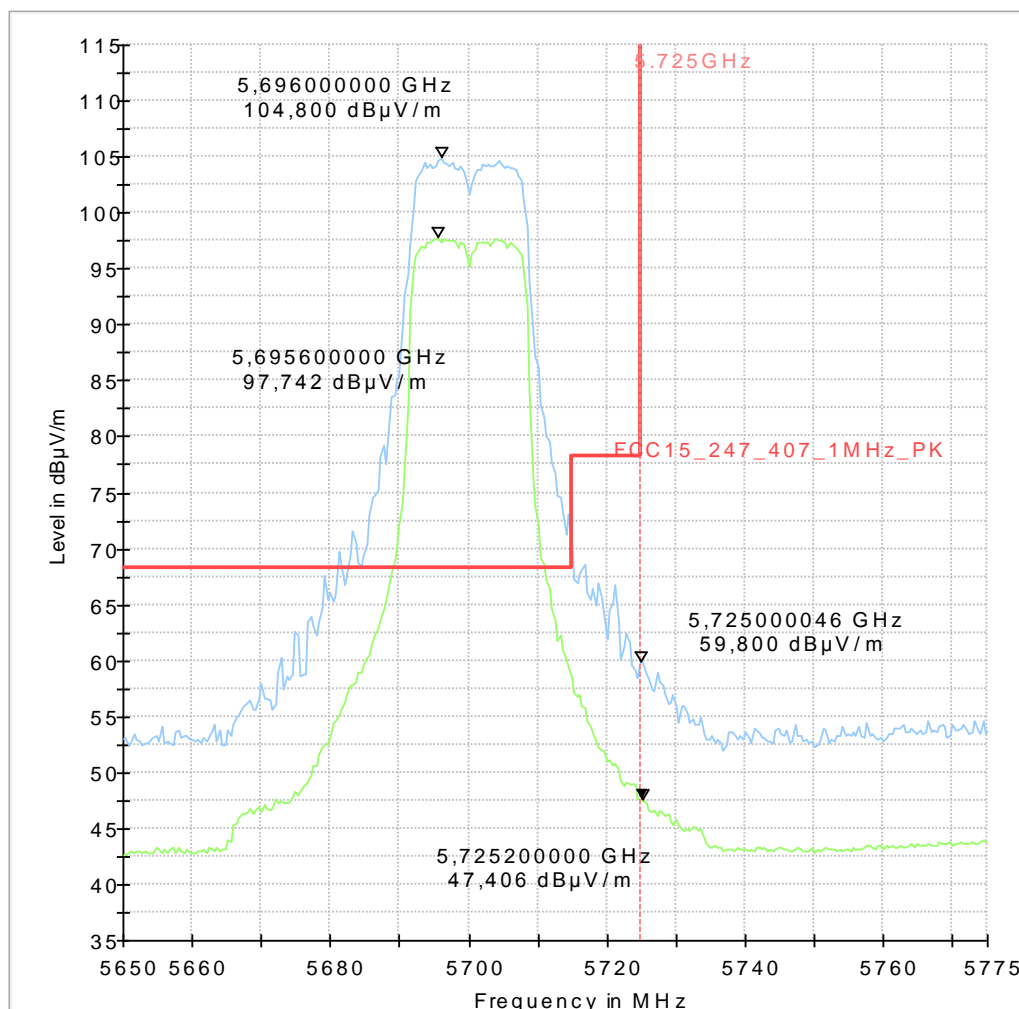
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



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

Diagram No: 9.17-BE\_Low\_n(HT20)\_MCS0\_CH36

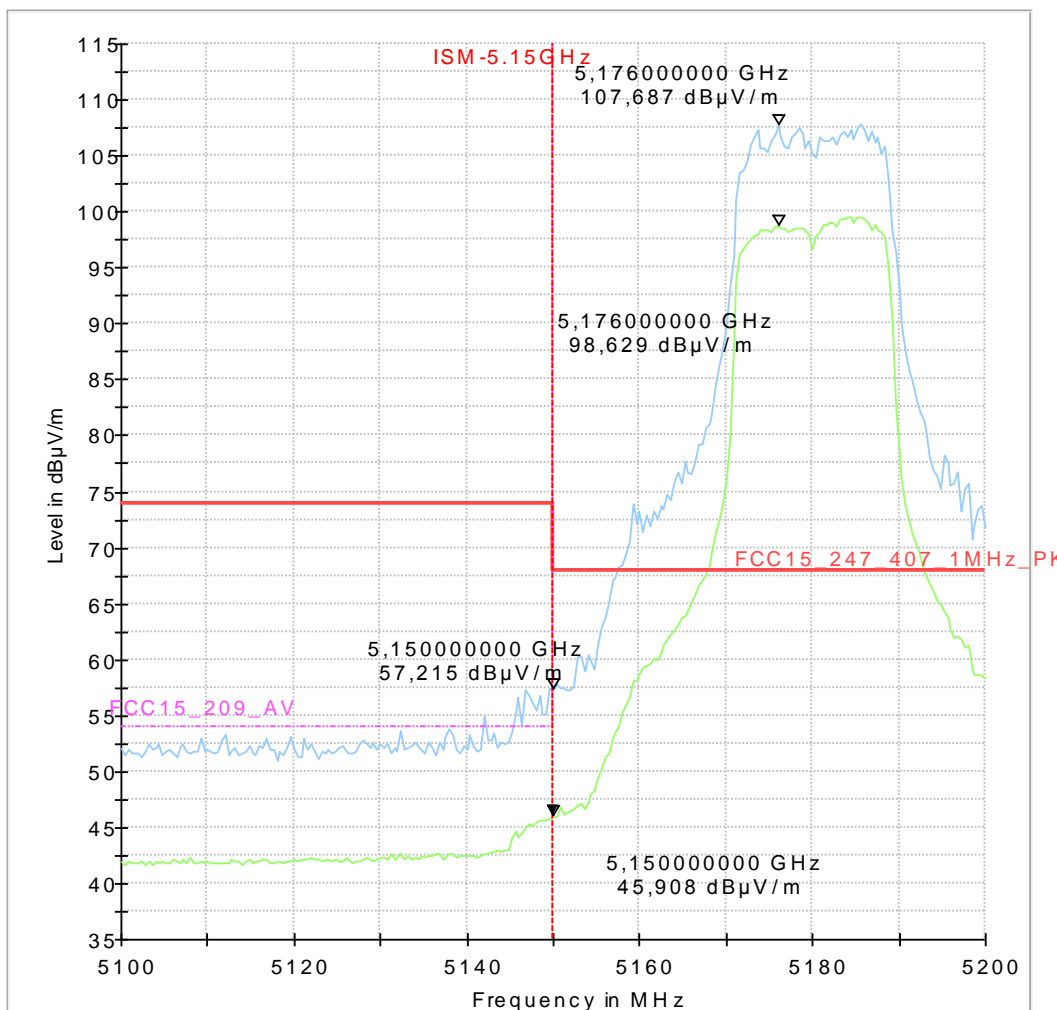
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
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

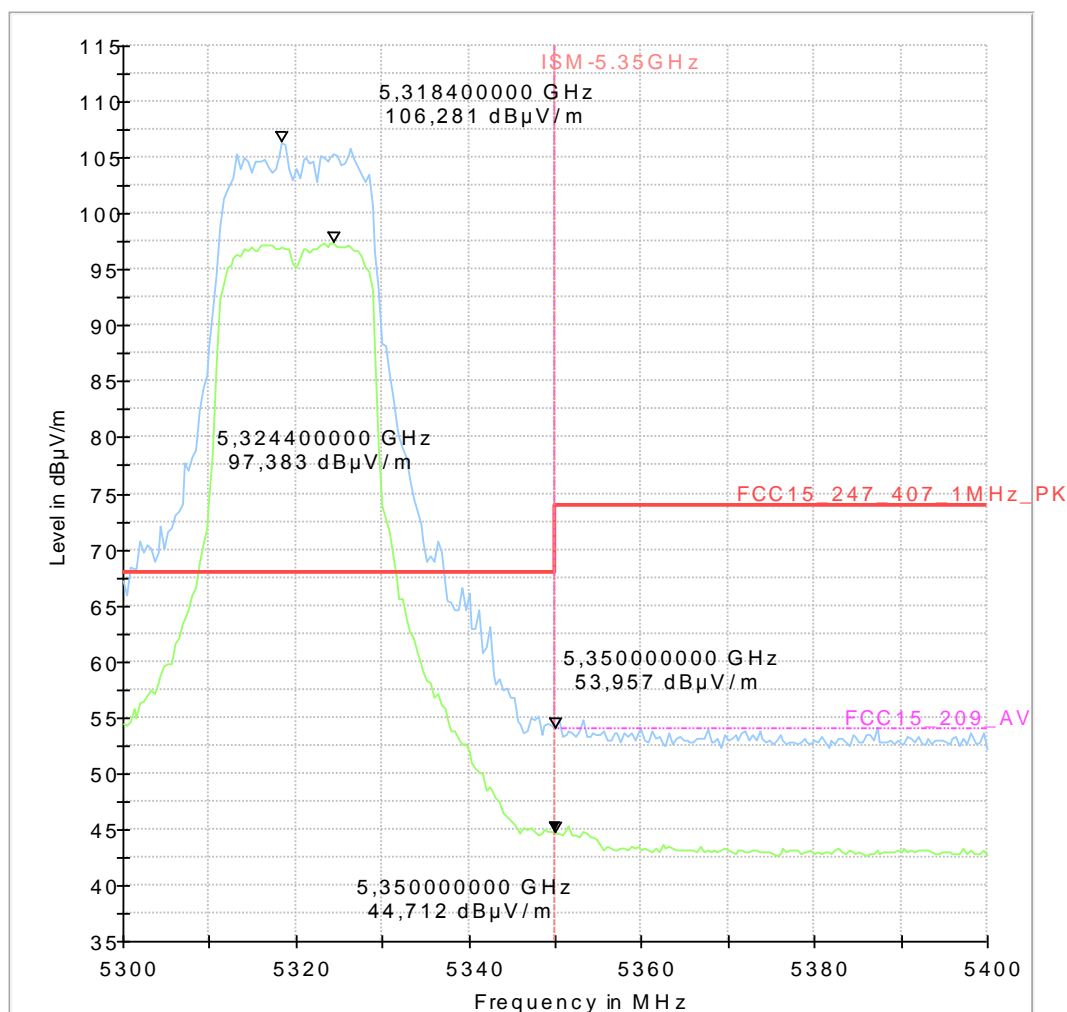
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
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

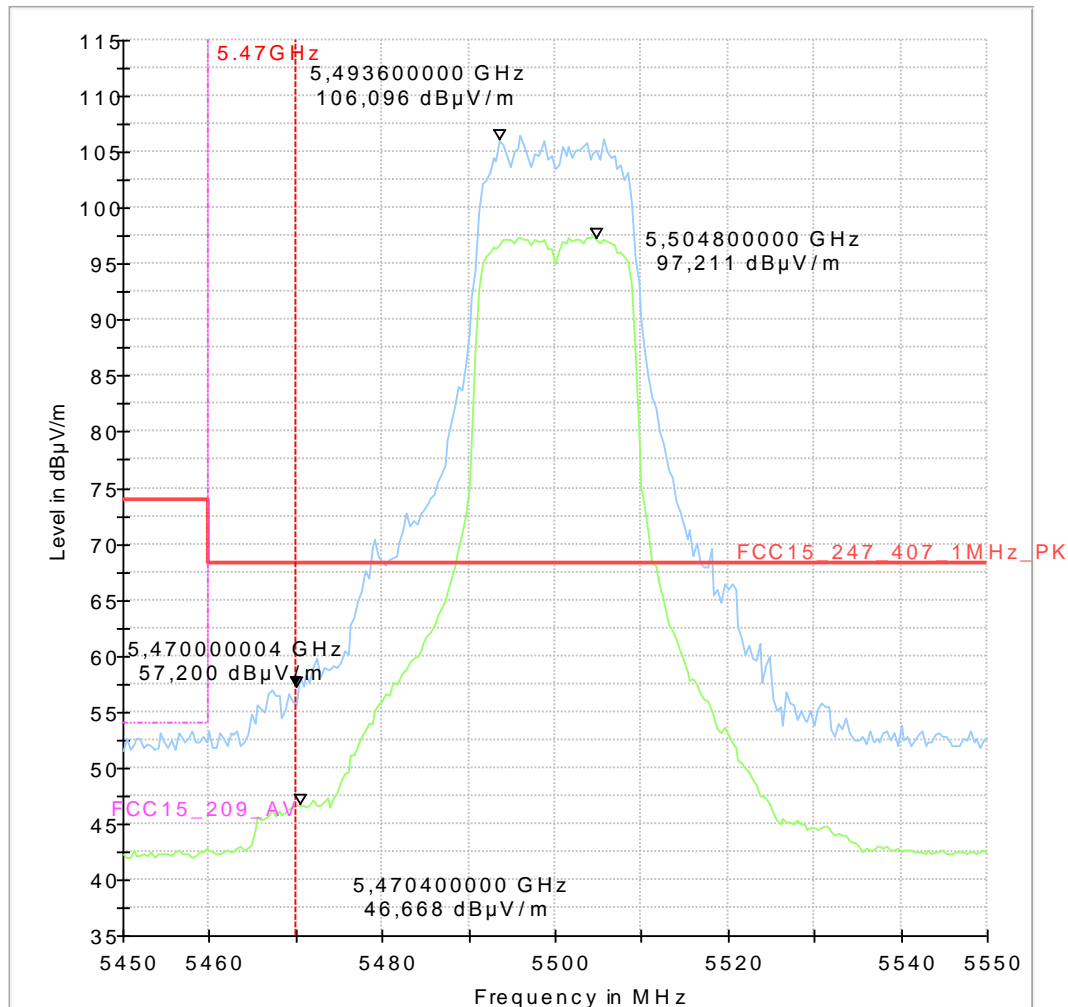
#### Common Information

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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum





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

Diagram No: 9.20\_BE\_High\_n(HT20)\_MCS0\_CH140

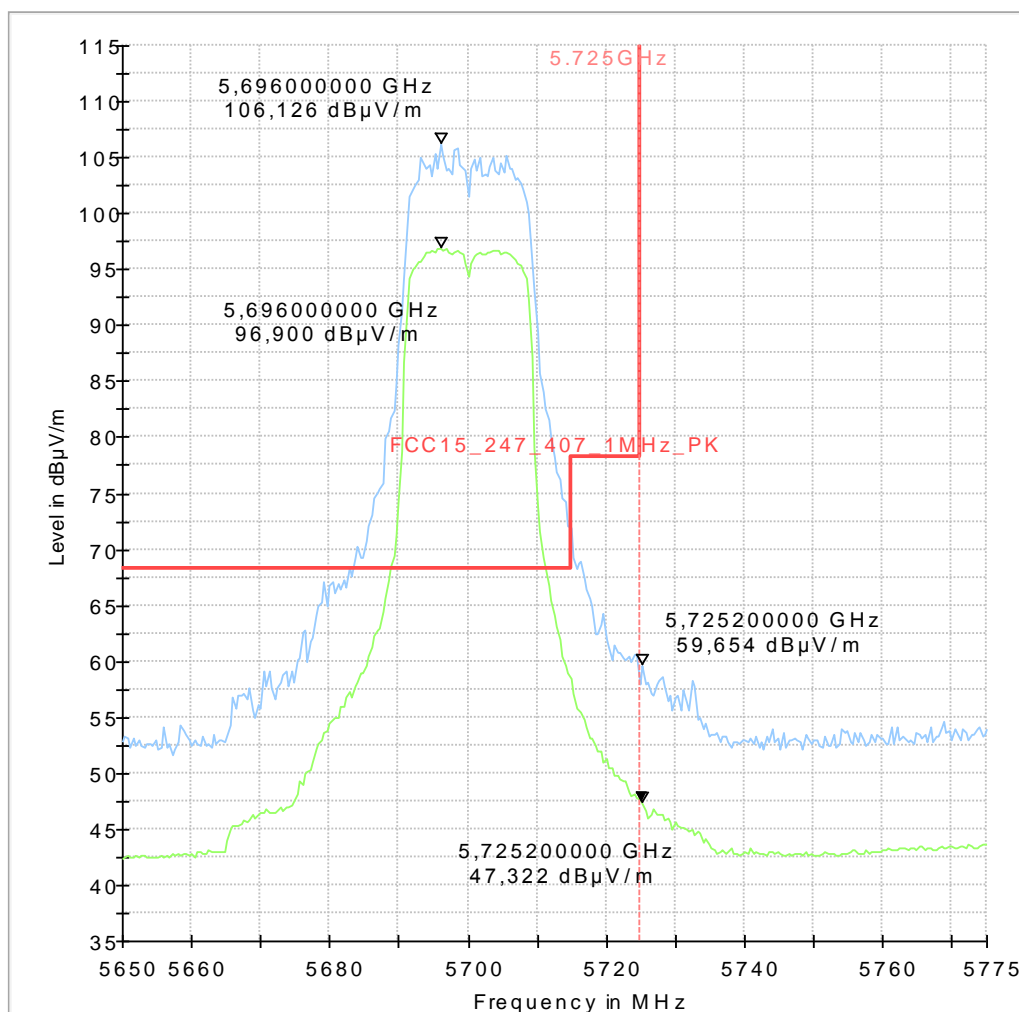
#### Common Information

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:	B00AN00HLOHT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



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

**Diagram No: 9.21\_BE\_Low\_n(HT20) \_MCS0\_ CH149**

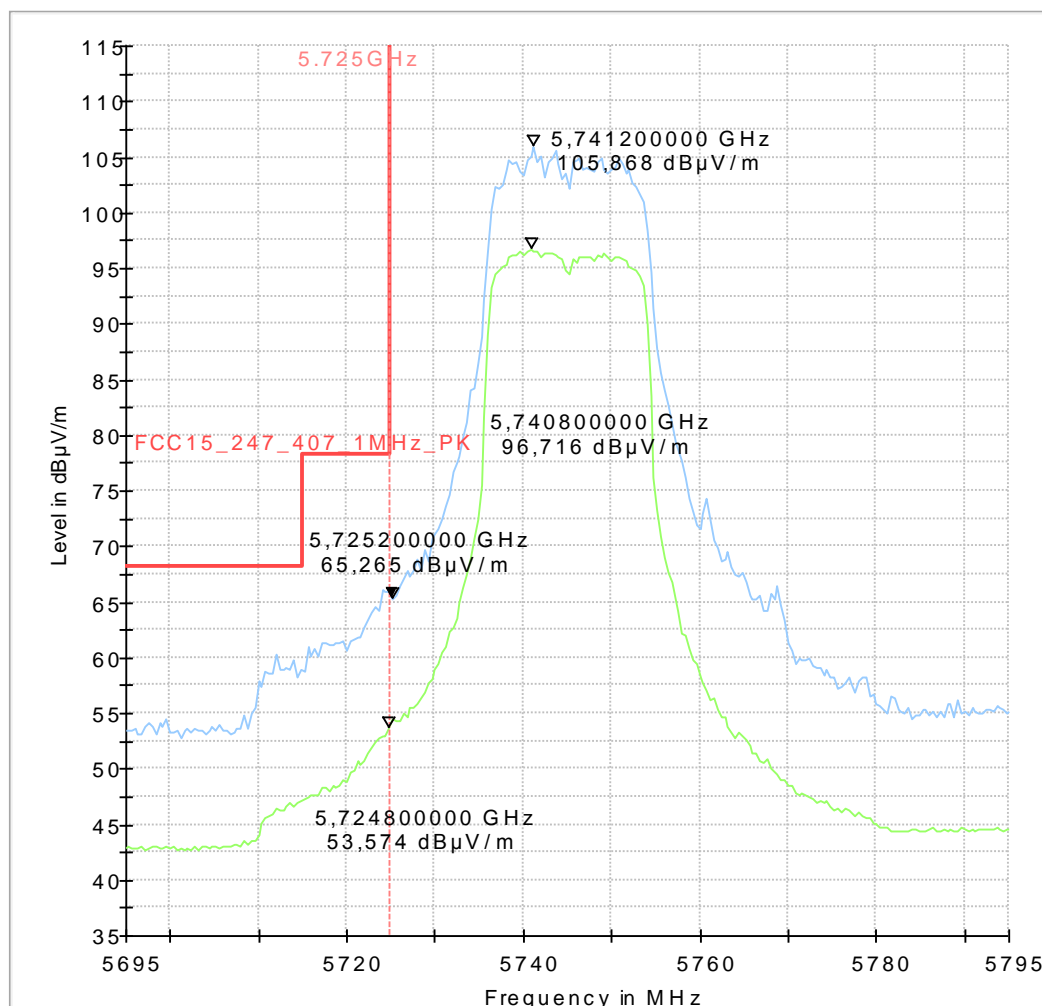
#### Common Information

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:	B00AN00HLOHT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



### 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:	B00AN00HL0HT0W7-GR0
P/N:	911350023
S/N:	Z16P00138
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum

