

Annex 1: Diagramms to
PARTIAL TEST REPORT
 No.: 2-20842790-15-9b

According to:
FCC Regulations
 Part 15.407

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

for

Datalogic ADC S.r.l.
JOYA TOUCH
 Type: P00AN04HL0HT0W7-GR0

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







Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION FC 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
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 ctia Authorized TM Test Lab Lab Code: 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
<p align="center"> CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com </p>			

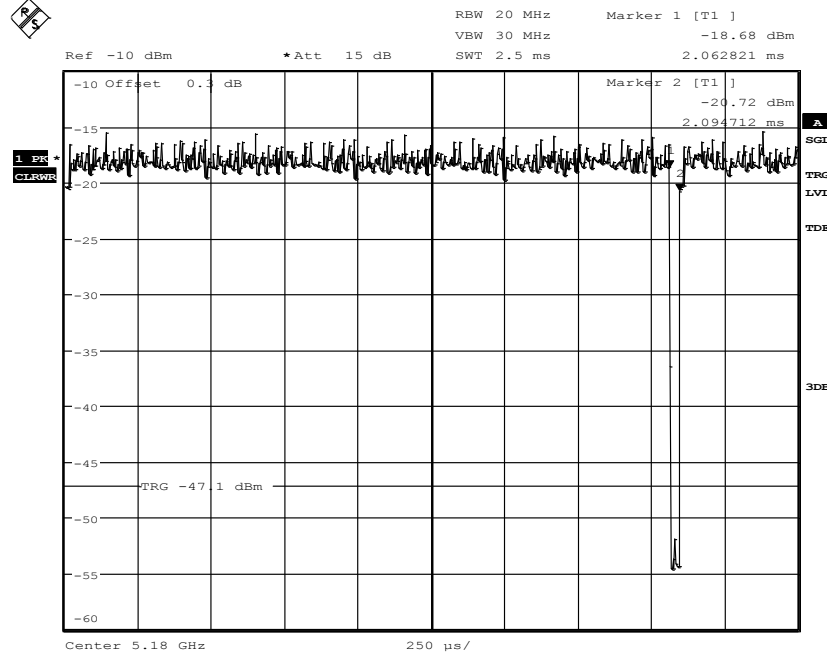
Table of contents

1. DUTY-CYCLE OF TRANSMITTER	3
2. MAXIMUM PEAK CONDUCTED OUTPUT POWER	11
2.1. 20MHz signal BW	11
3. CONDUCTED POWER SPECTRAL DENSITY	12
4. RADIATED MAGNETIC FIELD STRENGTHS MEASUREMENTS (9KHZ TO 30MHZ)	34
5. RADIATED FIELD STRENGTHS MEASUREMENTS (30MHZ TO 1GHZ)	36
6. RADIATED FIELD STRENGTH MEASUREMENTS (1GHZ TO 40 GHZ)	38
7. RADIATED BAND-EDGE MEASUREMENTS ACCORD. §15.209 & §15.205	43
7.1. Channel 36 a-Mode (left band edge)	43
7.2. Channel 64 a-Mode (right band edge)	44
7.3. Channel 100 a-Mode (left band edge)	45
7.4. Channel 140 a-Mode (right band edge)	46
7.5. Channel 36 n-Mode(HT20) (left band edge)	47
7.6. Channel 64 n-Mode(HT20) (right band edge)	48
7.7. Channel 100 n-Mode(HT20) (left band edge)	49
7.8. Channel 140 n-Mode(HT20) (right band edge)	50
7.9. Channel 149 n-Mode(HT20) (left band edge)	51
7.10. Channel 165 n-Mode(HT20) (right band edge)	52

1. Duty-Cycle of Transmitter

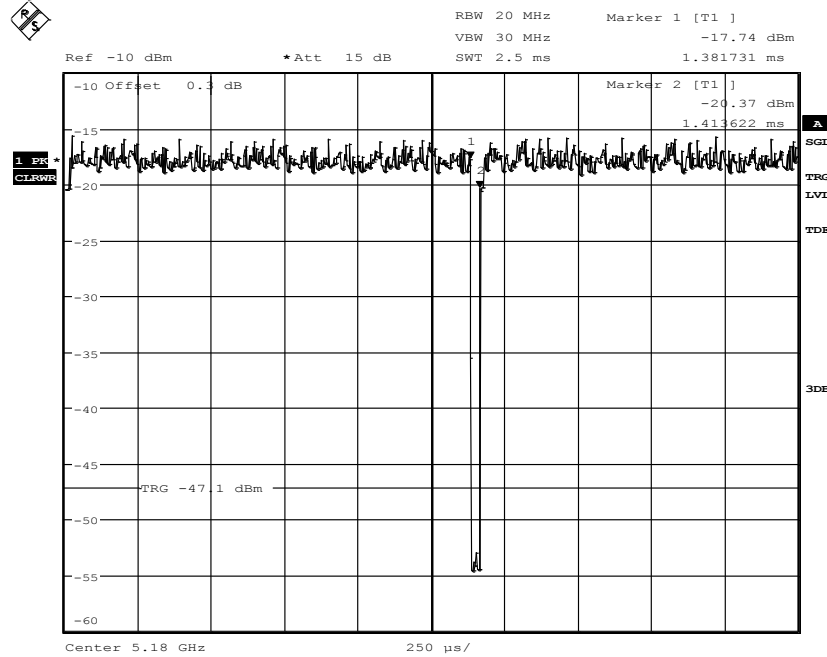
The characteristics of the implemented test mode was checked on middle channel no. 36 (a-Mode and n-Mode HT20) only.

Diagram a-Mode 6Mbit:



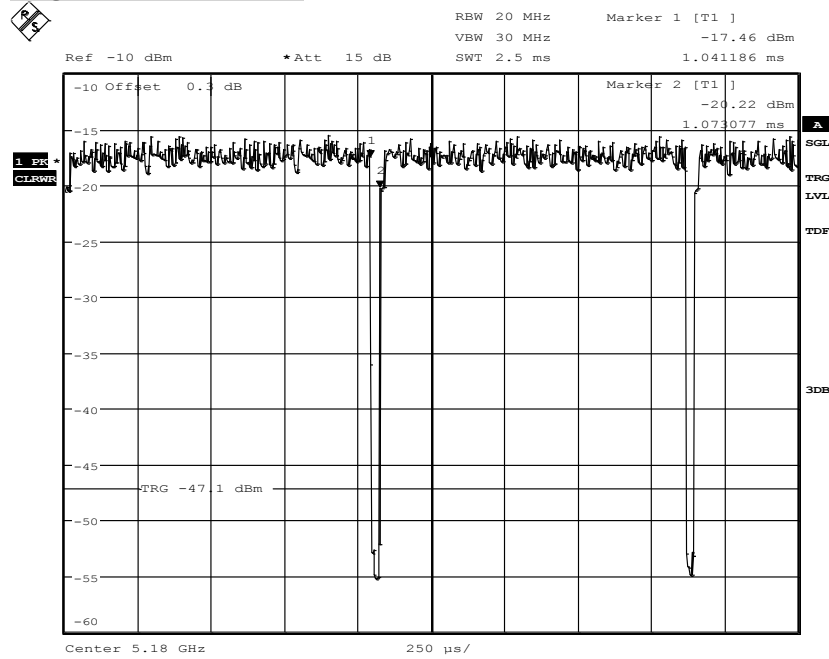
Date: 8.JUN.2016 11:00:44

Diagram a-Mode 9Mbit:



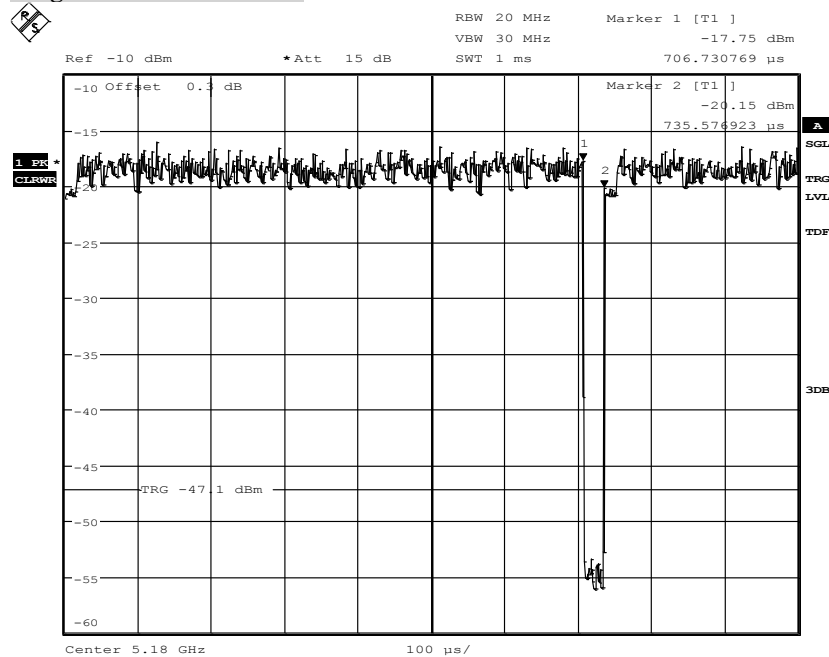
Date: 8.JUN.2016 11:01:44

Diagram a-Mode 12Mbit:



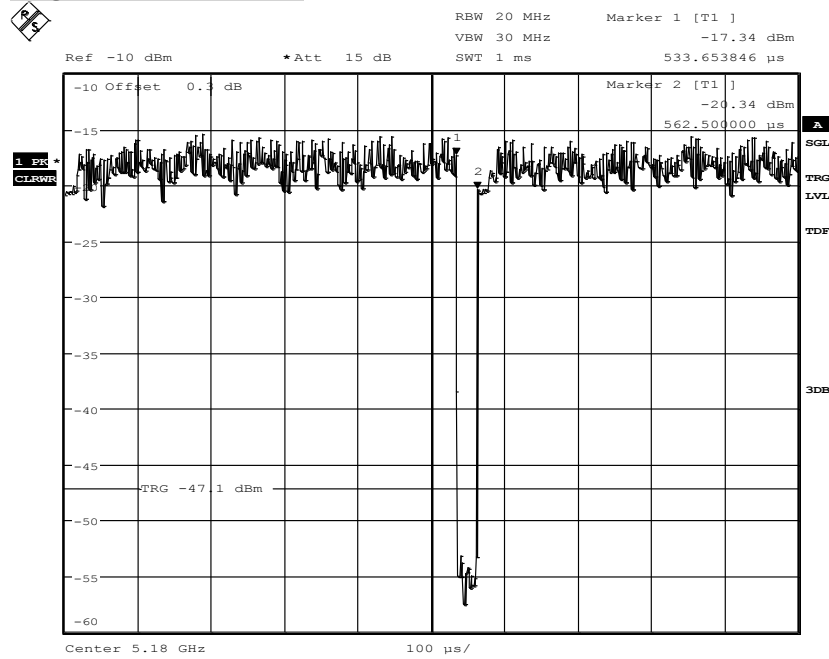
Date: 8.JUN.2016 11:02:52

Diagram a-Mode 18Mbit:



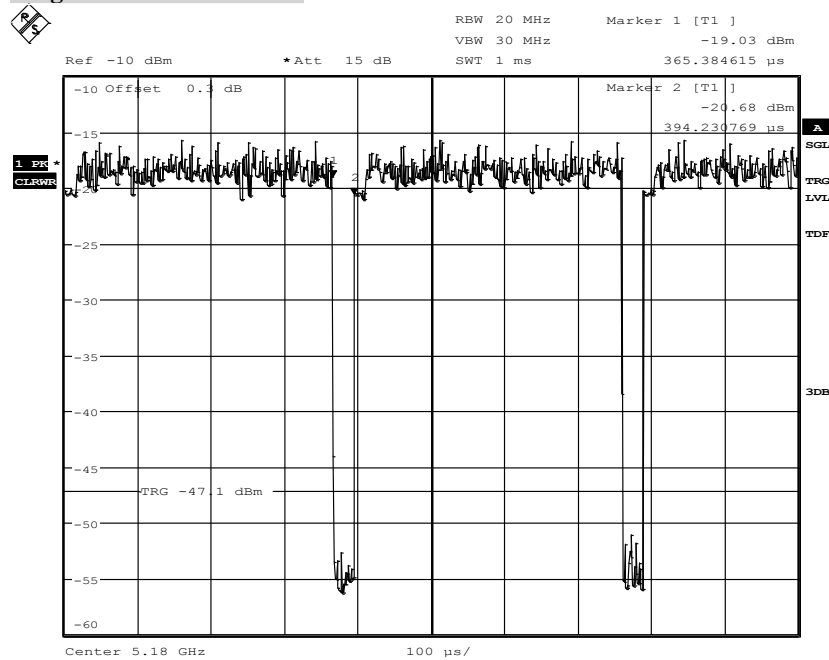
Date: 8.JUN.2016 11:03:52

Diagram a-Mode 24Mbit:



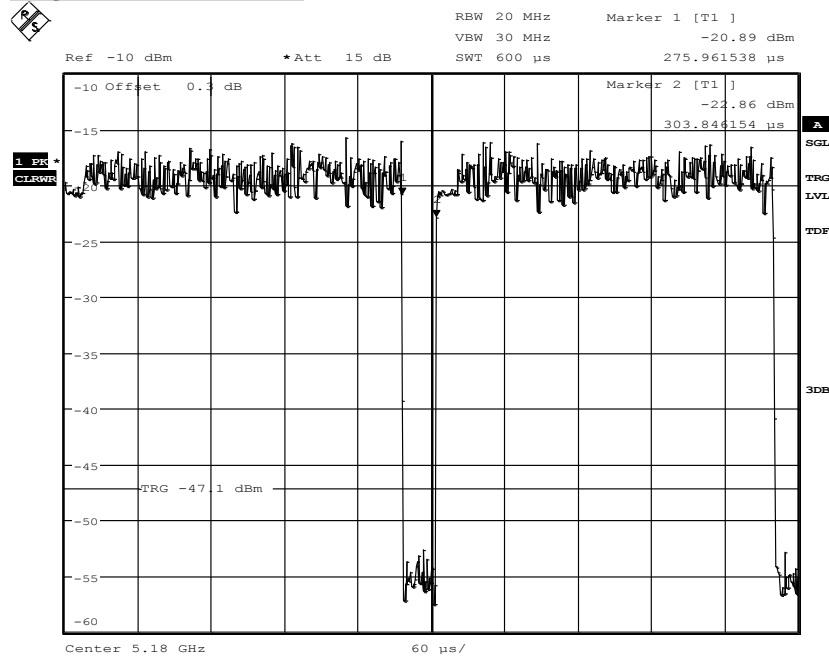
Date: 8.JUN.2016 11:04:48

Diagram a-Mode 36Mbit:



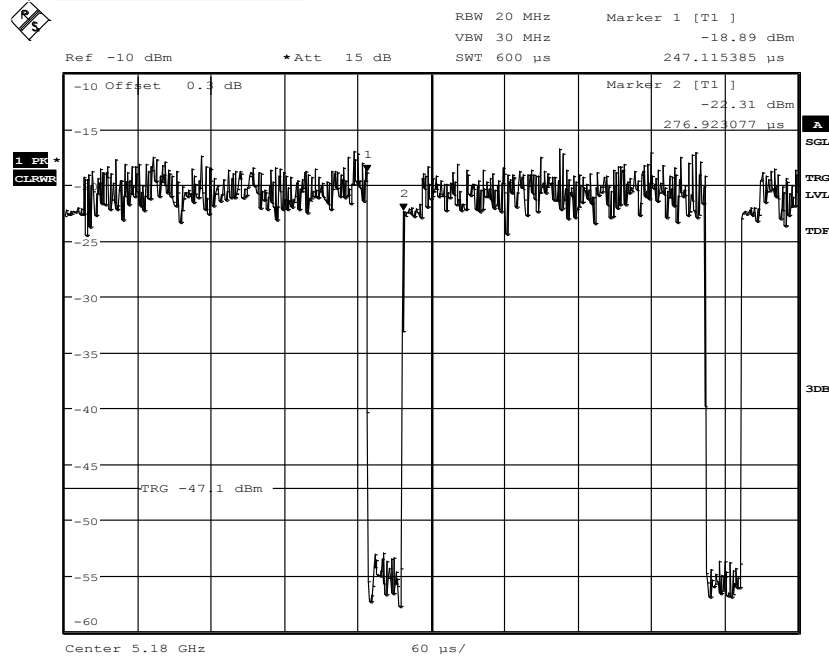
Date: 8.JUN.2016 11:06:16

Diagram a-Mode 48Mbit:



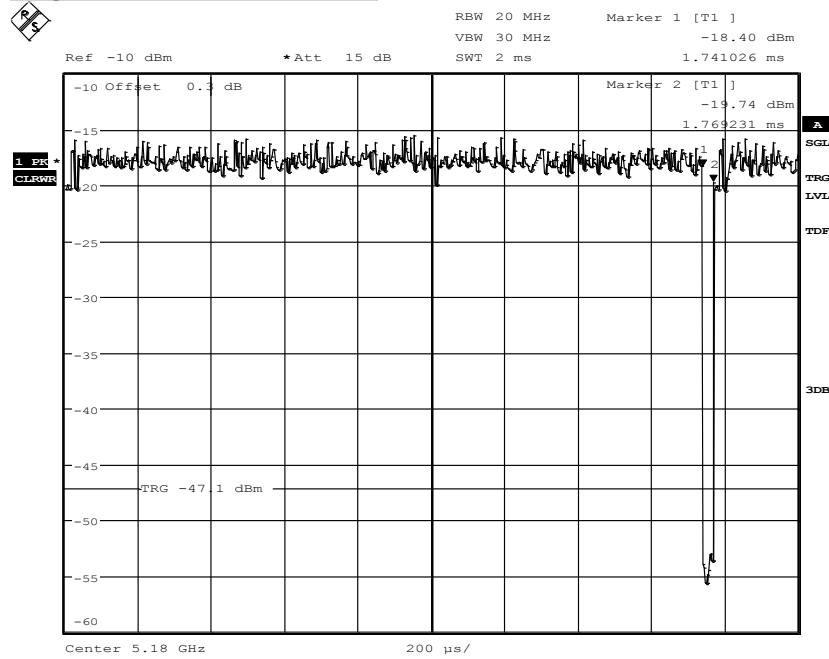
Date: 8.JUN.2016 10:58:55

Diagram a-Mode 54Mbit:



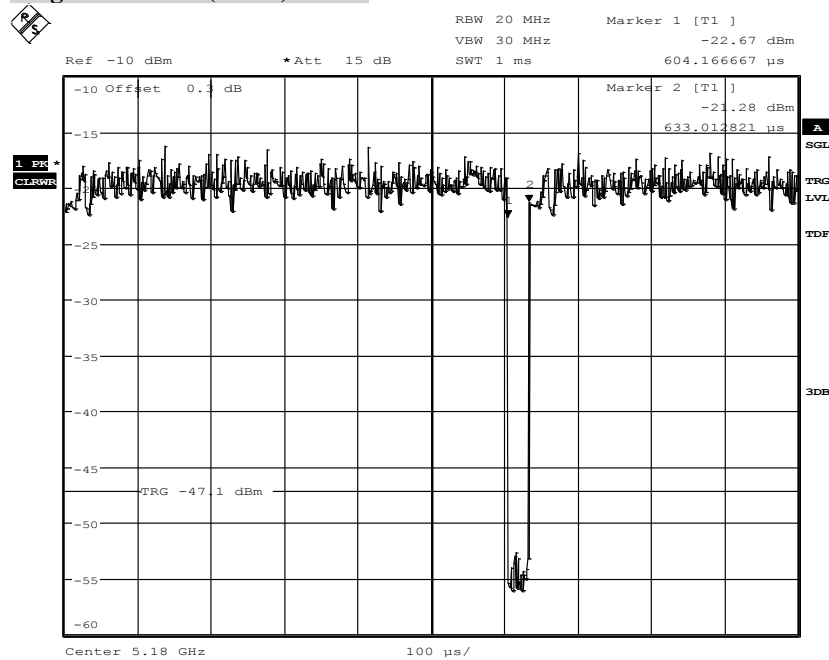
Date: 8.JUN.2016 10:57:42

Diagram n-Mode(HT20) MCS0:



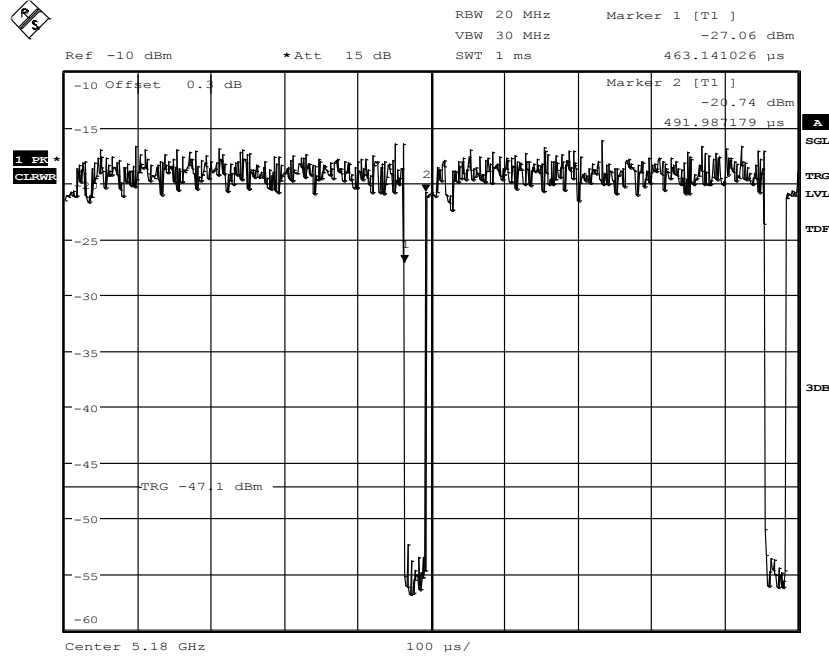
Date: 8.JUN.2016 11:07:42

Diagram n-Mode(HT20) MCS2:



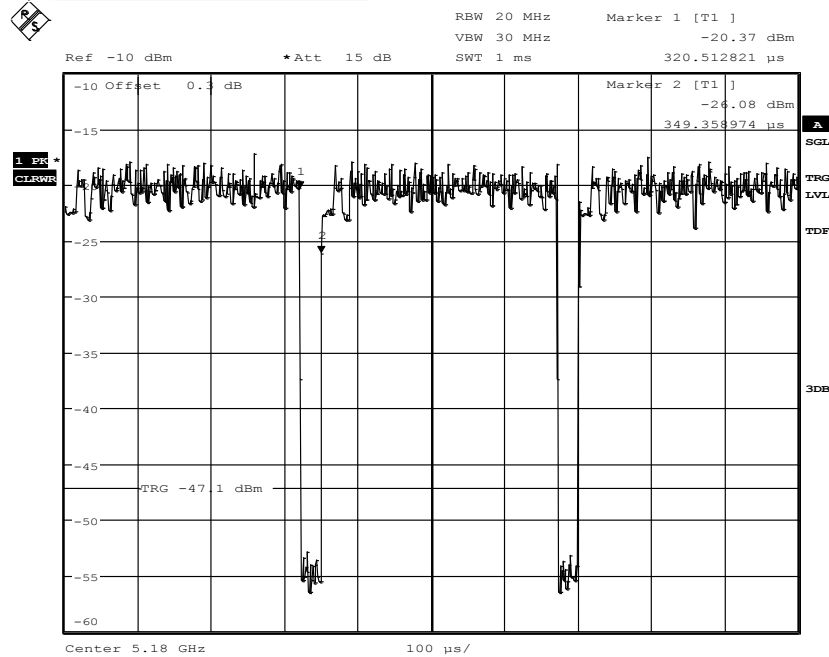
Date: 8.JUN.2016 11:25:25

Diagram n-Mode(HT20) MCS3:



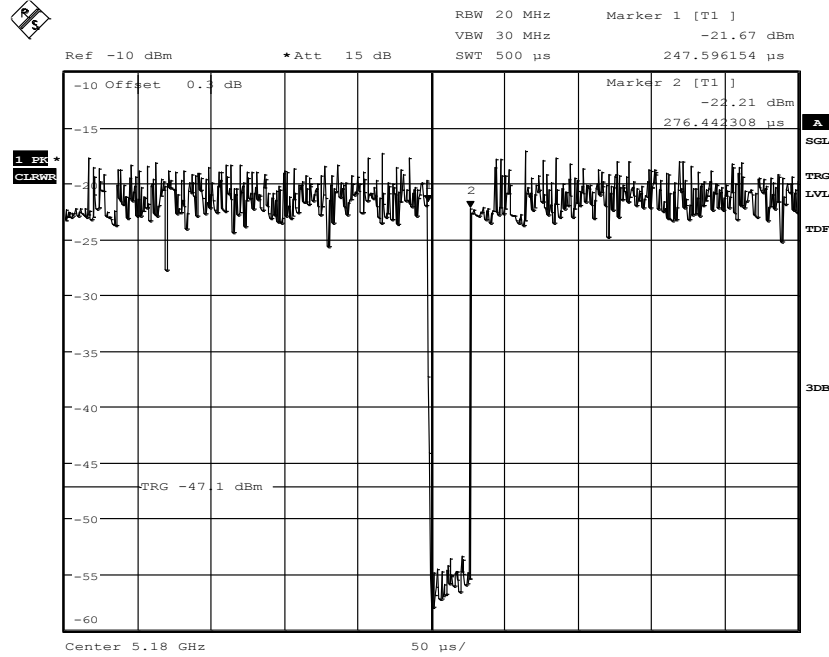
Date: 8.JUN.2016 11:29:38

Diagram n-Mode(HT20) MCS4:



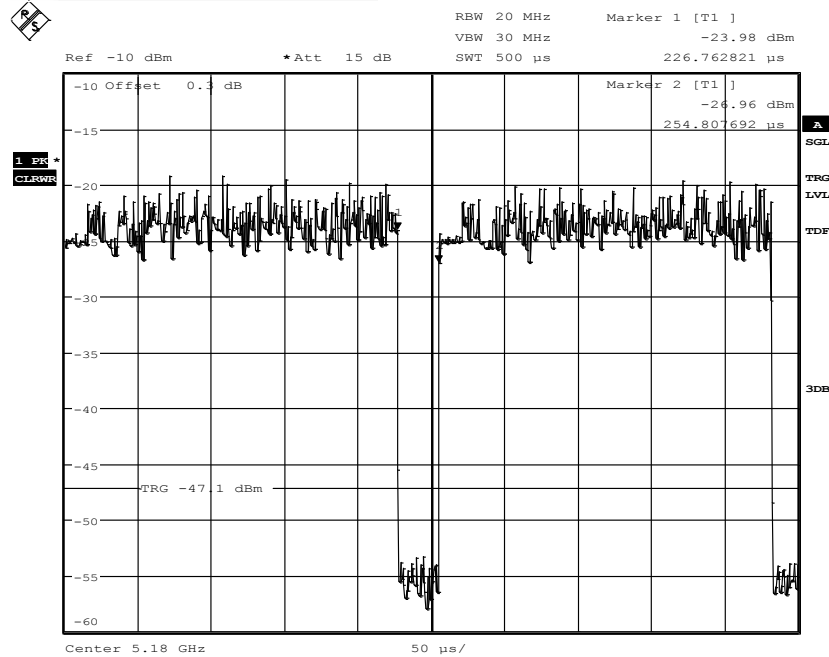
Date: 8.JUN.2016 11:26:41

Diagram n-Mode(HT20) MCS5:



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

Diagram n-Mode(HT20) MCS6:



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

2. Maximum Peak Conducted Output Power

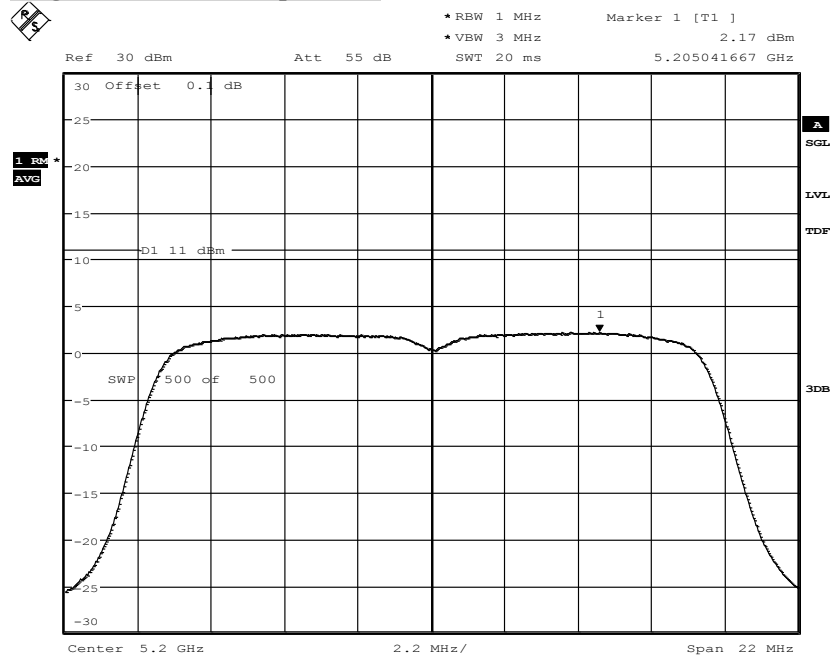
2.1. 20MHz signal BW

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)
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	12,00	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:	U-NII 1 (Outdoor use: EIRP-Limit of 21dBm)			U-NII-2A			U-NII 2C			U-NII 3		
FCC-Limits [dBm]	24,00			23,98			23,98			30,00		
Limit Check:	Limit Check:											
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:

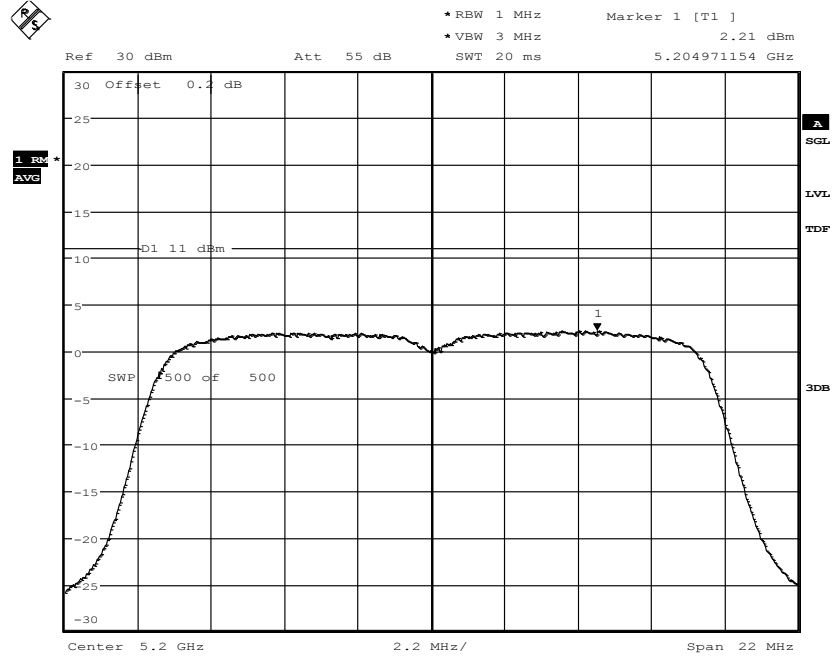
- 1.) The values in above table are conducted output power without declared antenna gain .
- 2.) The maximum measured conducted power values among each mode for each channel are highlighted.
- 3.) The above values are inclusive Duty cycle correction factors.

Diagram a-Mode 12Mbps Ch40:



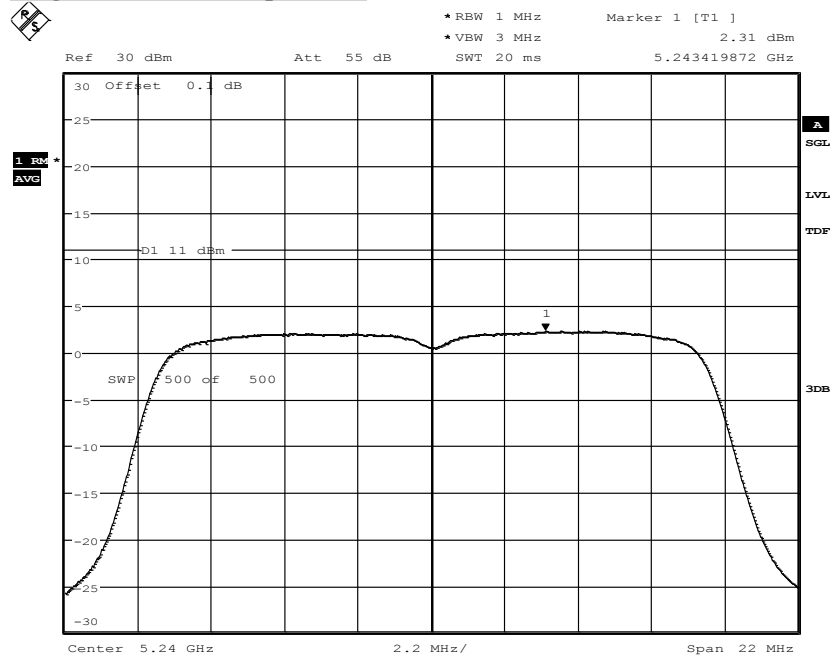
Date: 9.JUN.2016 10:51:21

Diagram a-Mode 24Mbps Ch40:



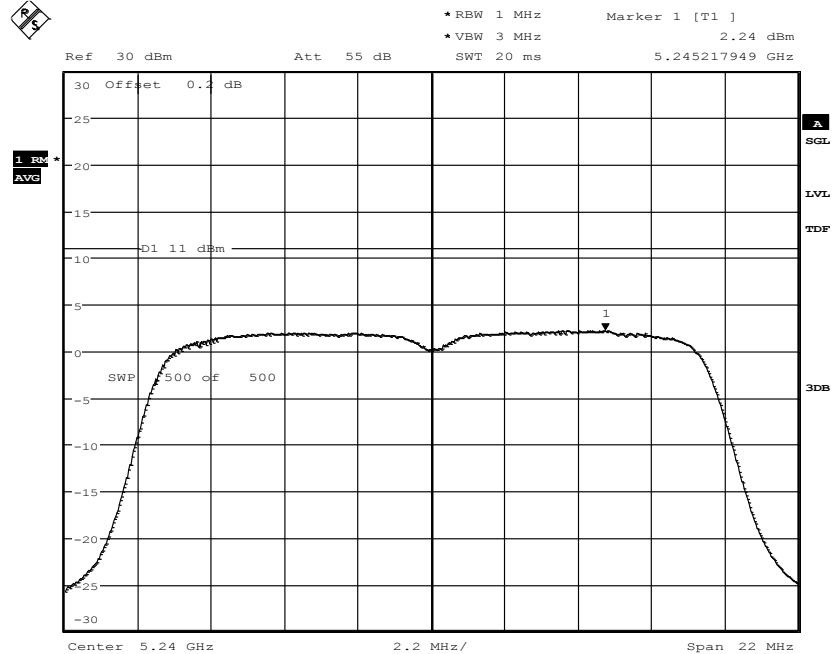
Date: 9.JUN.2016 10:54:13

Diagram a-Mode 6Mbps Ch48:



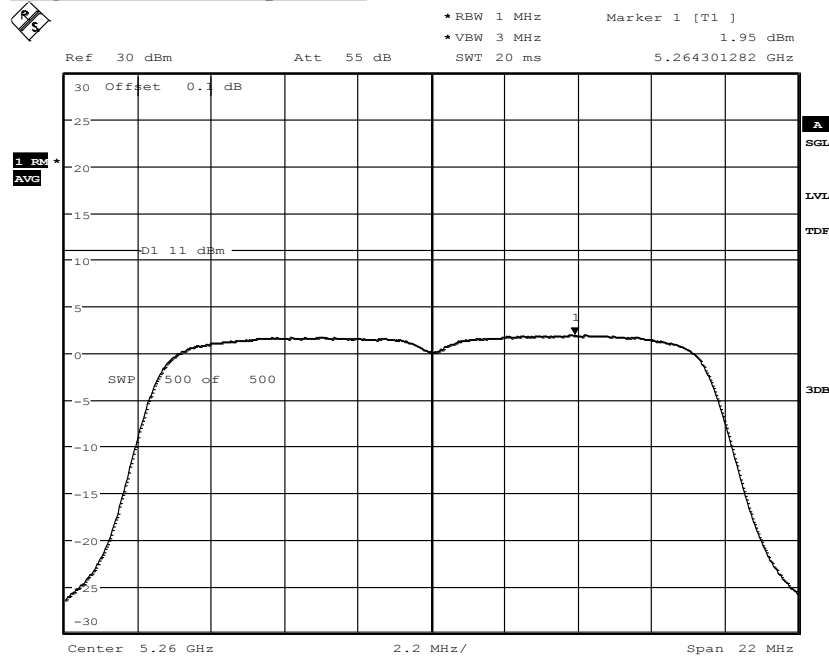
Date: 9.JUN.2016 10:59:05

Diagram a-Mode 24Mbps Ch48:



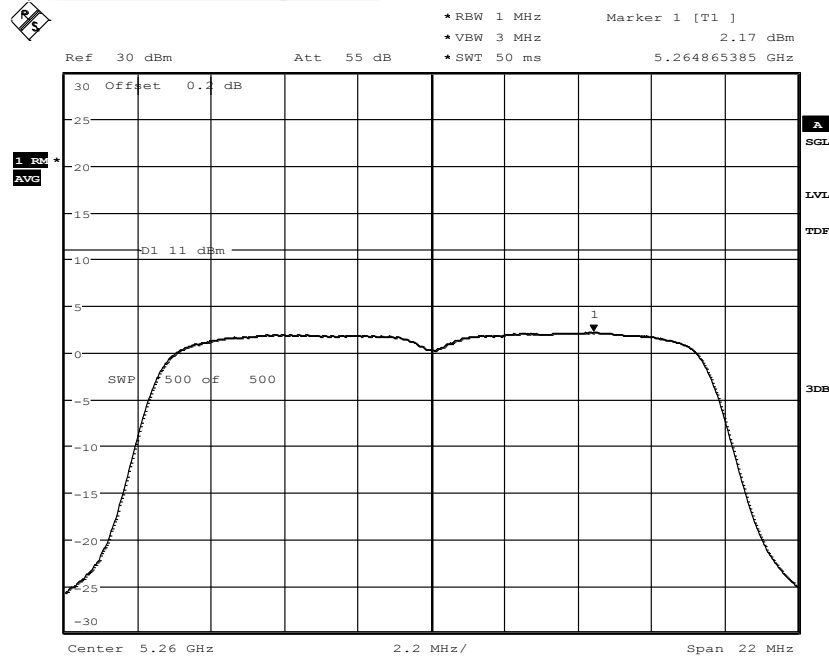
Date: 9.JUN.2016 10:56:14

Diagram a-Mode 6Mbps Ch52:



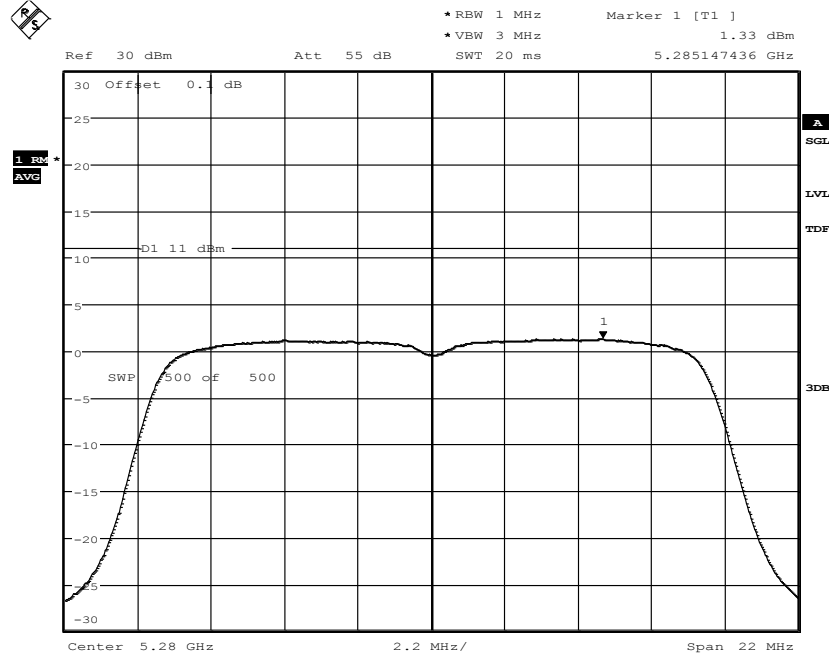
Date: 9.JUN.2016 11:03:10

Diagram a-Mode 24Mbps Ch52:



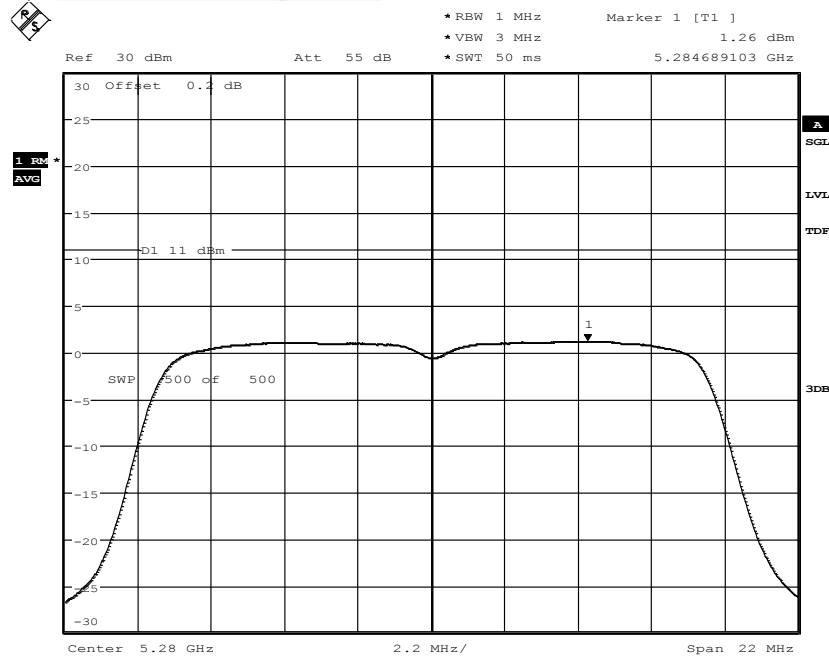
Date: 9.JUN.2016 11:33:49

Diagram a-Mode 6Mbps Ch56:



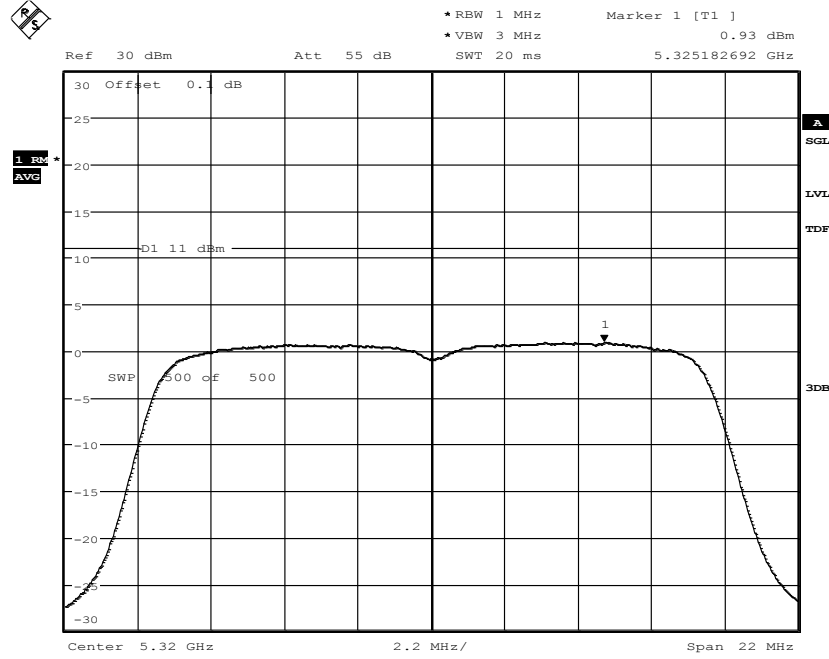
Date: 9.JUN.2016 11:07:01

Diagram a-Mode 24Mbps Ch56:



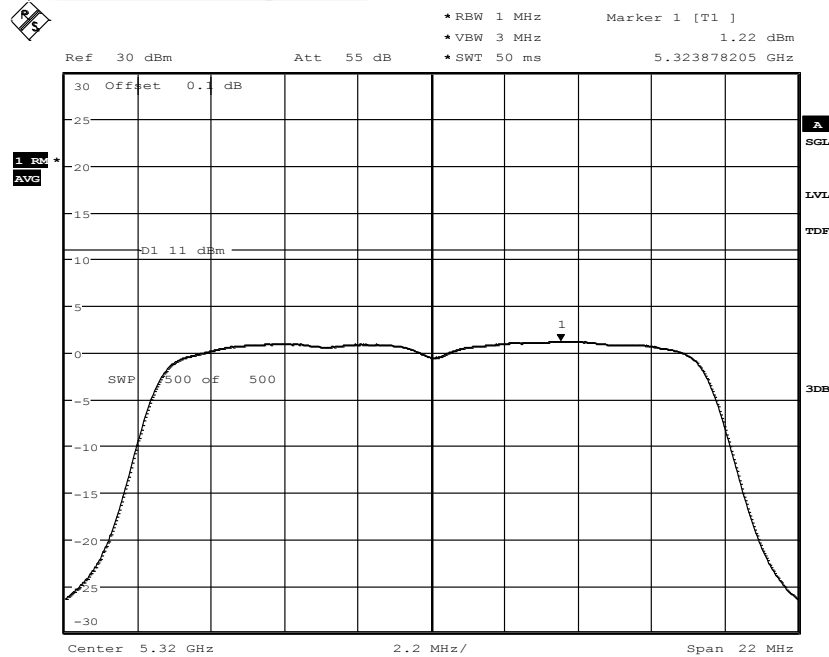
Date: 9.JUN.2016 11:35:25

Diagram a-Mode 6Mbps Ch64:



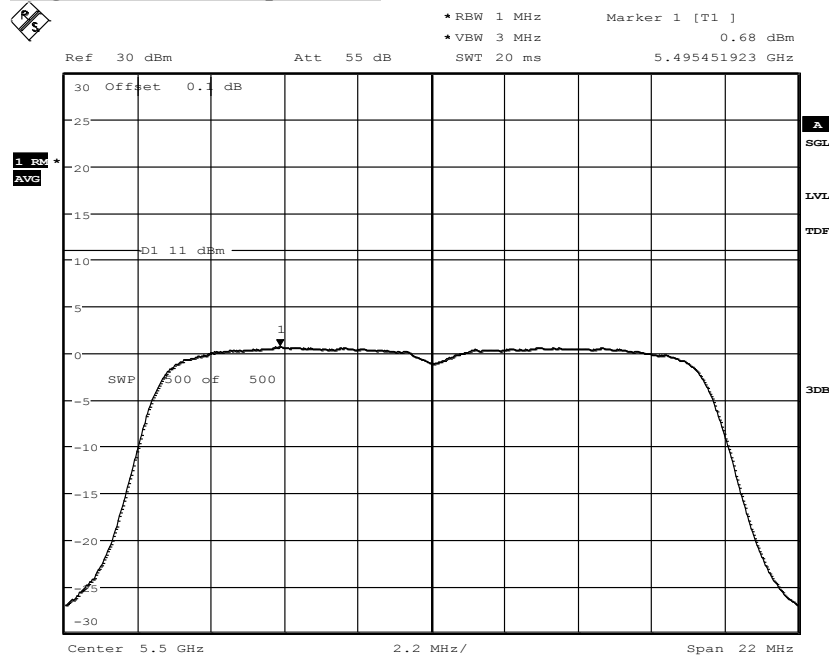
Date: 9.JUN.2016 11:08:58

Diagram a-Mode 9Mbps Ch64:



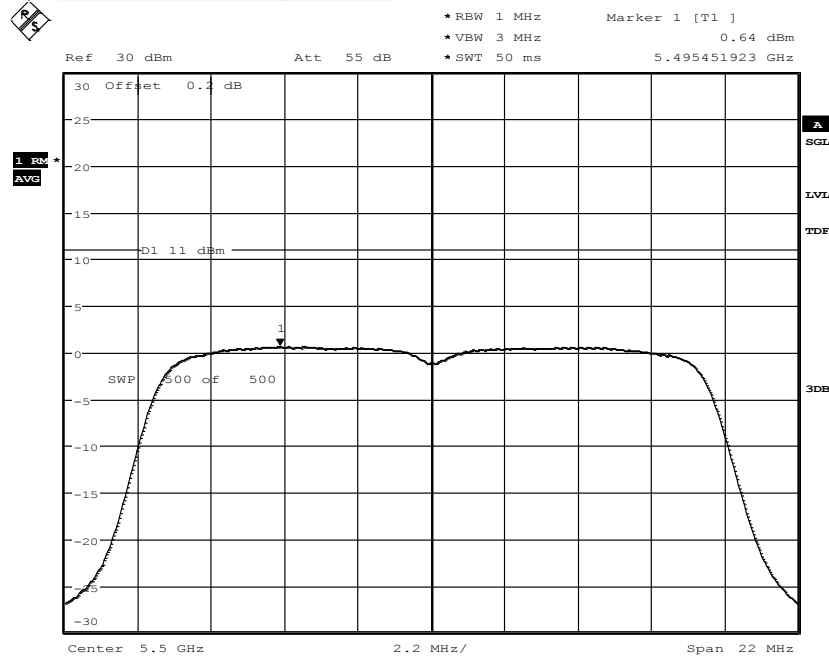
Date: 9.JUN.2016 11:47:36

Diagram a-Mode 6Mbps Ch100:



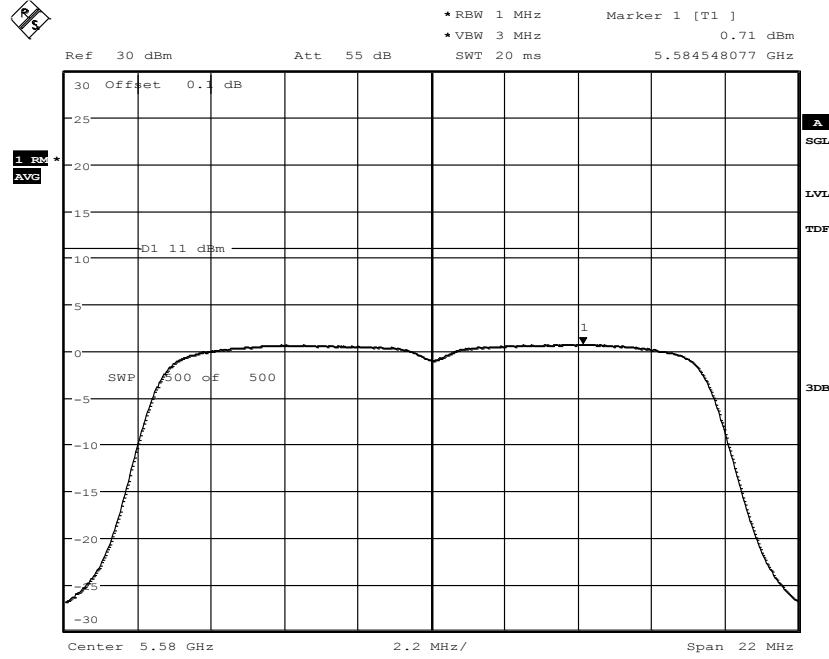
Date: 9.JUN.2016 11:12:11

Diagram a-Mode 24Mbps Ch100:



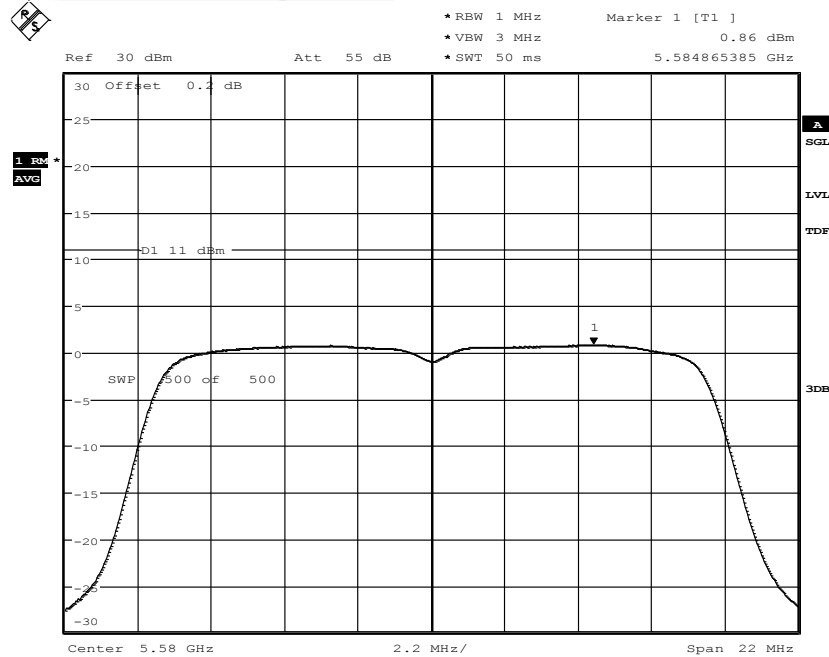
Date: 9.JUN.2016 11:31:06

Diagram a-Mode 6Mbps Ch116:



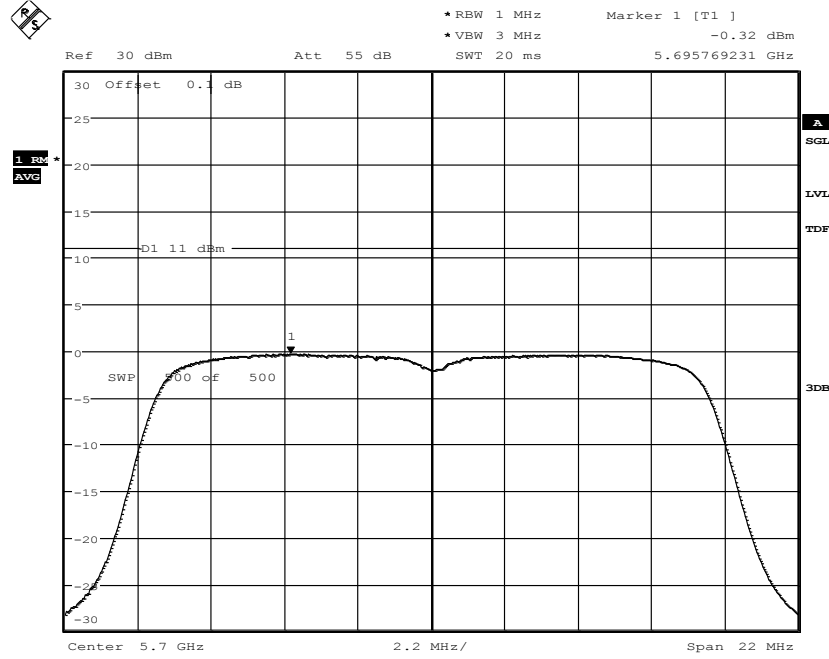
Date: 9.JUN.2016 11:15:38

Diagram a-Mode 18Mbps Ch116:



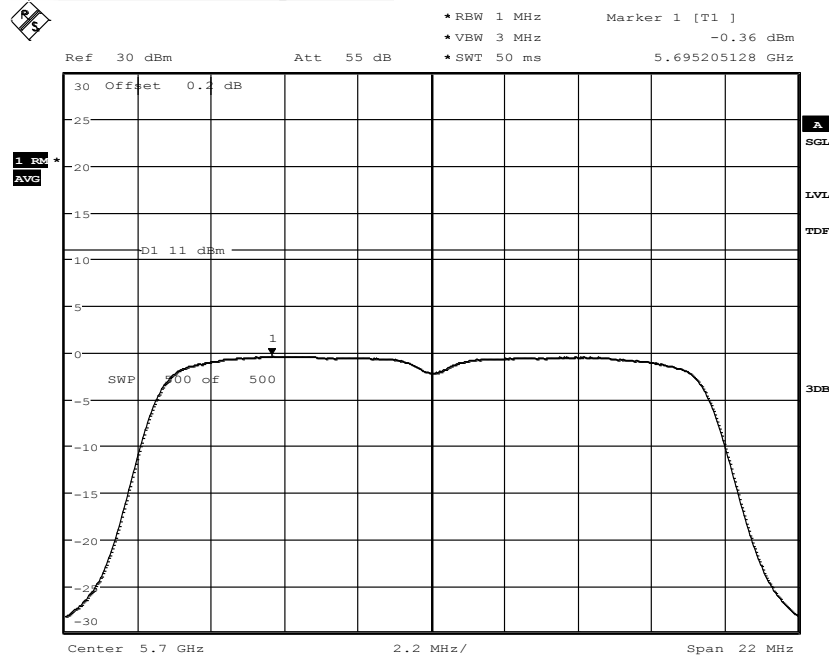
Date: 9.JUN.2016 11:44:06

Diagram a-Mode 6Mbps Ch140:



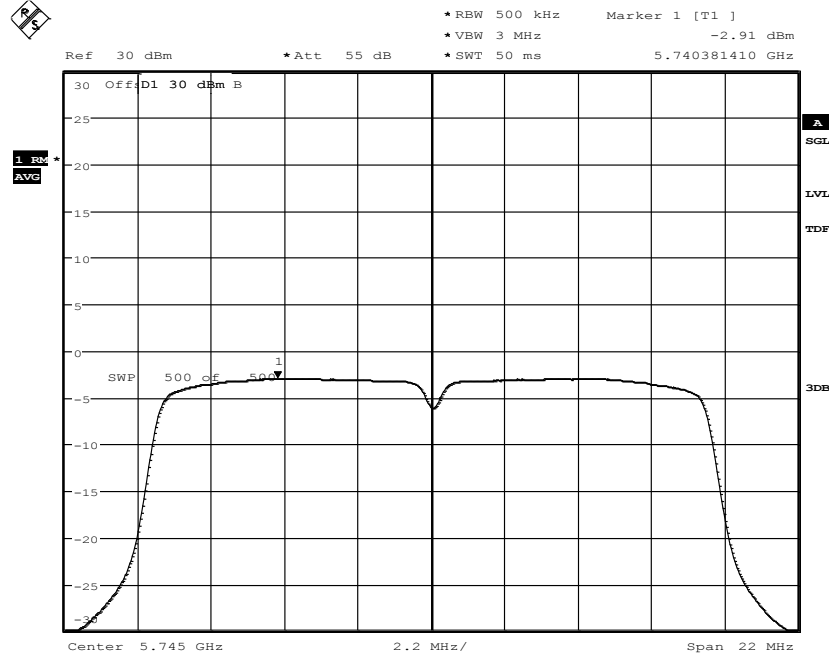
Date: 9.JUN.2016 11:20:02

Diagram a-Mode 24Mbps Ch140:



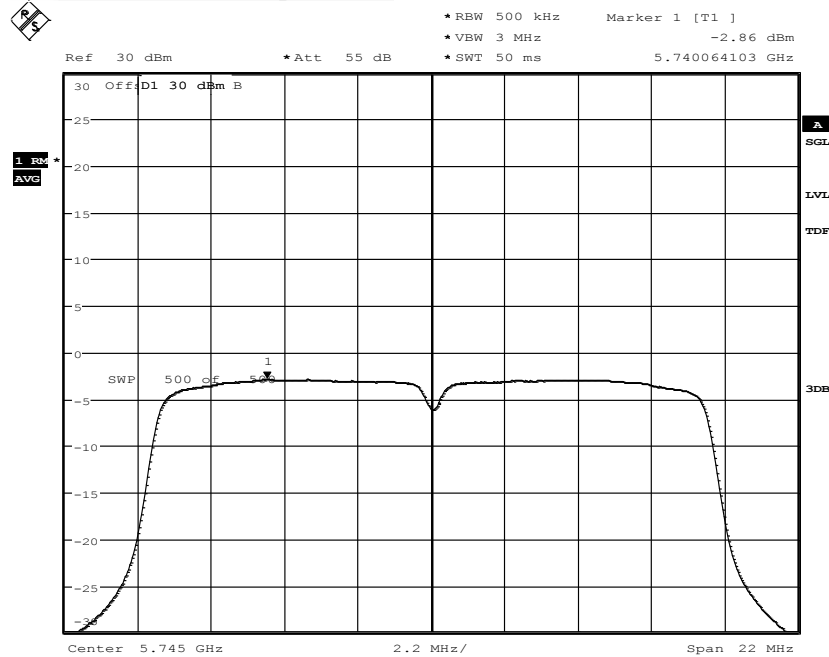
Date: 9.JUN.2016 11:27:37

Diagram a-Mode 6Mbps Ch149:



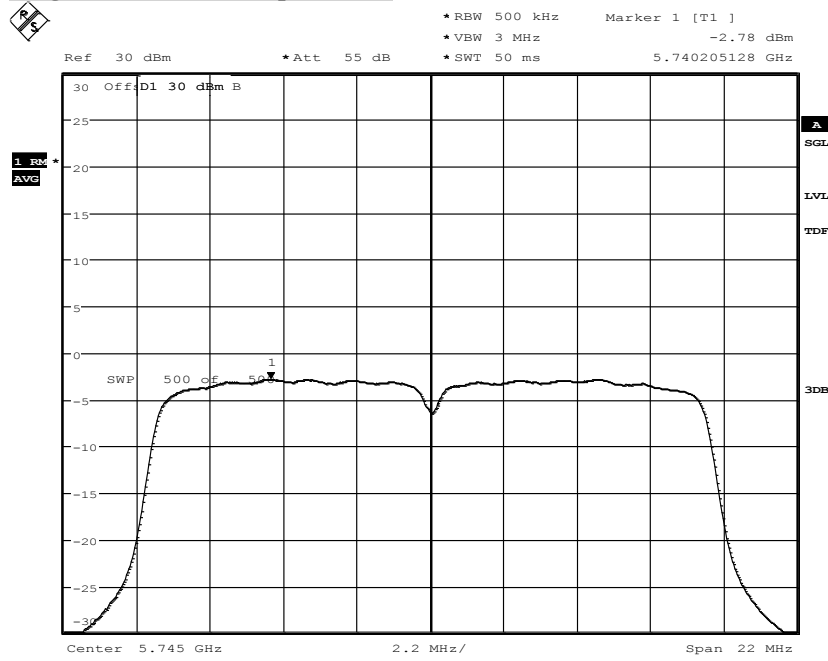
Date: 9.JUN.2016 13:57:05

Diagram a-Mode 12Mbps Ch149:



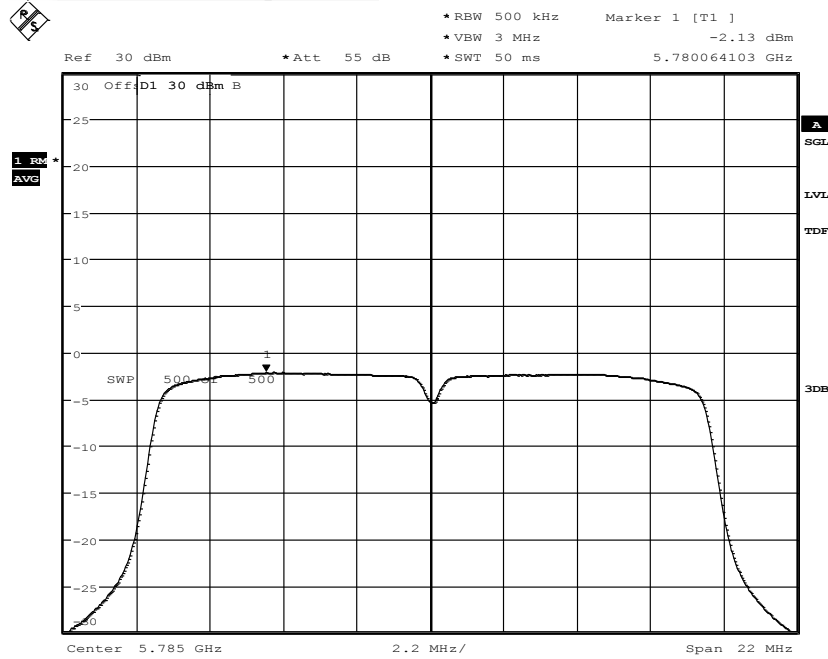
Date: 9.JUN.2016 13:41:26

Diagram a-Mode 24Mbps Ch149:



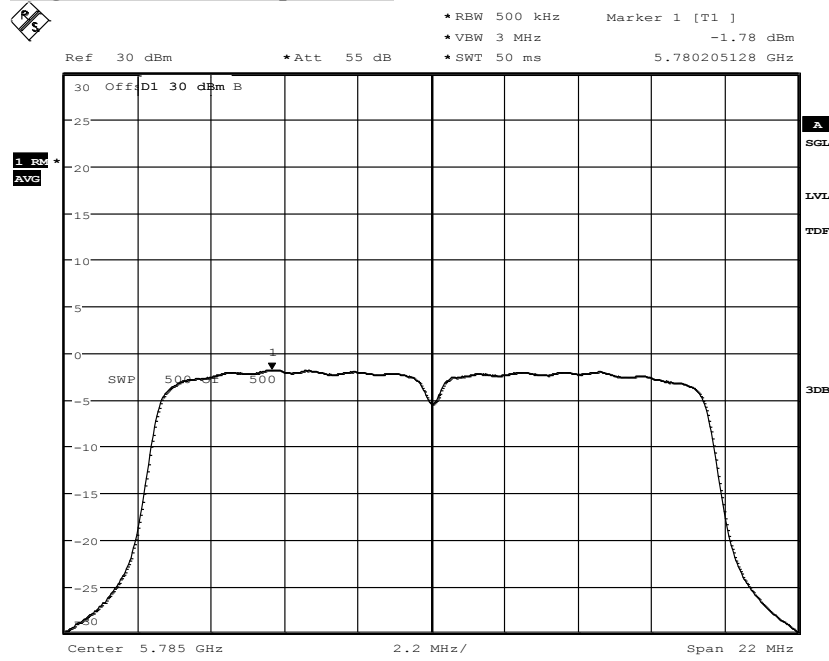
Date: 9.JUN.2016 13:54:18

Diagram a-Mode 6Mbps Ch157:



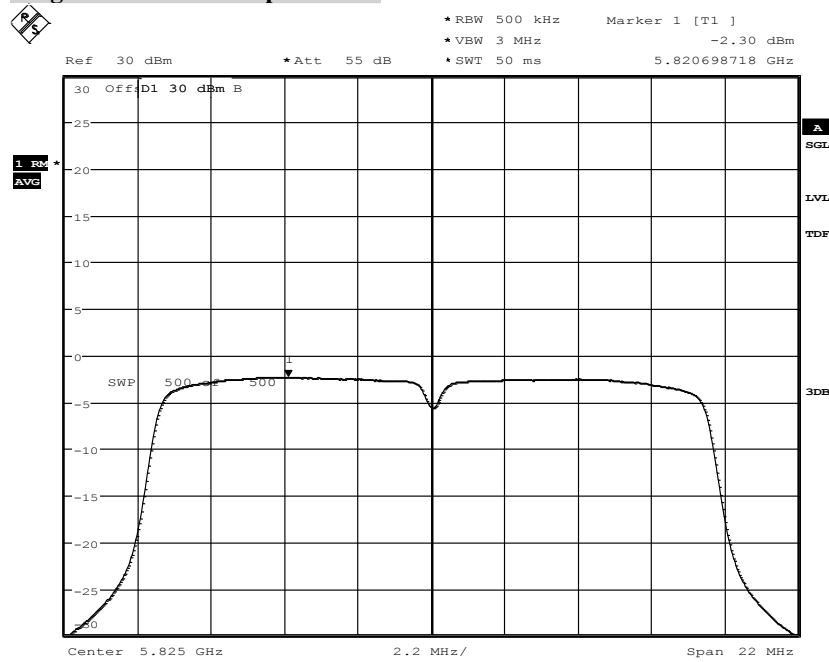
Date: 9.JUN.2016 13:38:54

Diagram a-Mode 24Mbps Ch157:



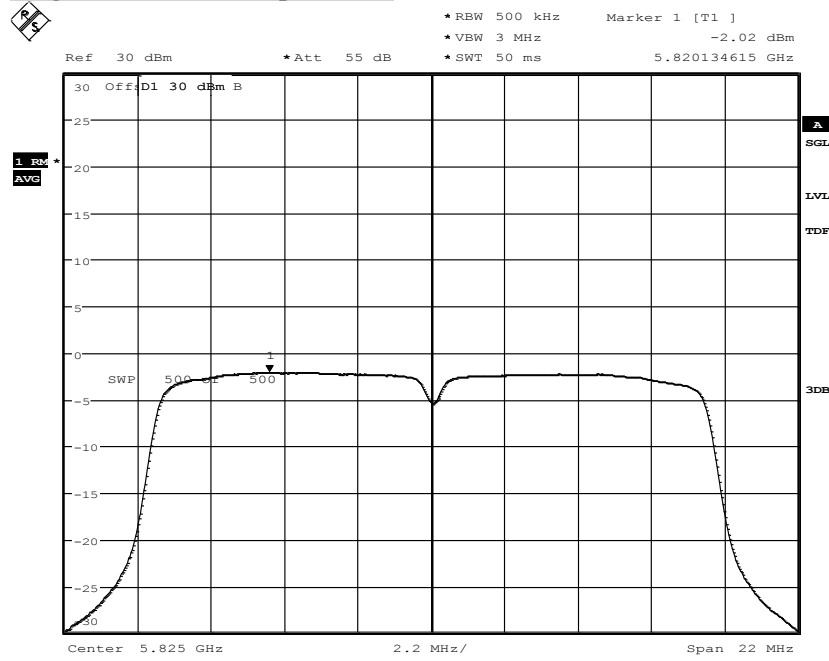
Date: 9.JUN.2016 13:51:35

Diagram a-Mode 6Mbps Ch165:



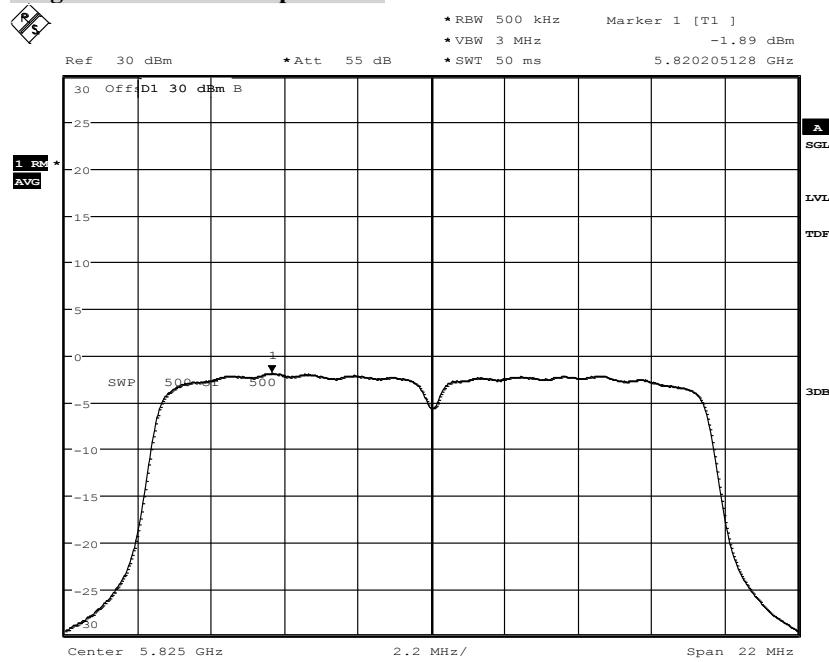
Date: 9.JUN.2016 13:34:55

Diagram a-Mode 12Mbps Ch165:



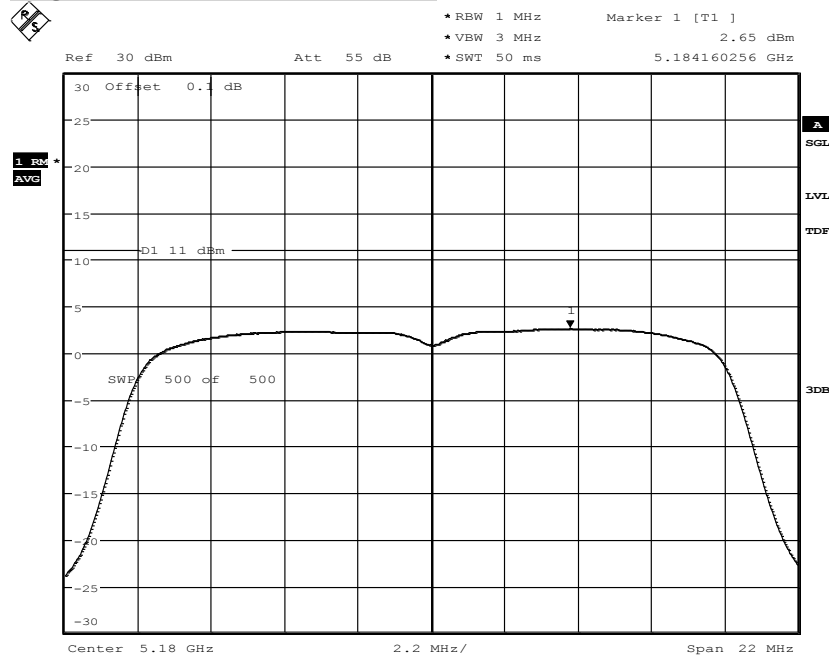
Date: 9.JUN.2016 13:43:05

Diagram a-Mode 24Mbps Ch165:



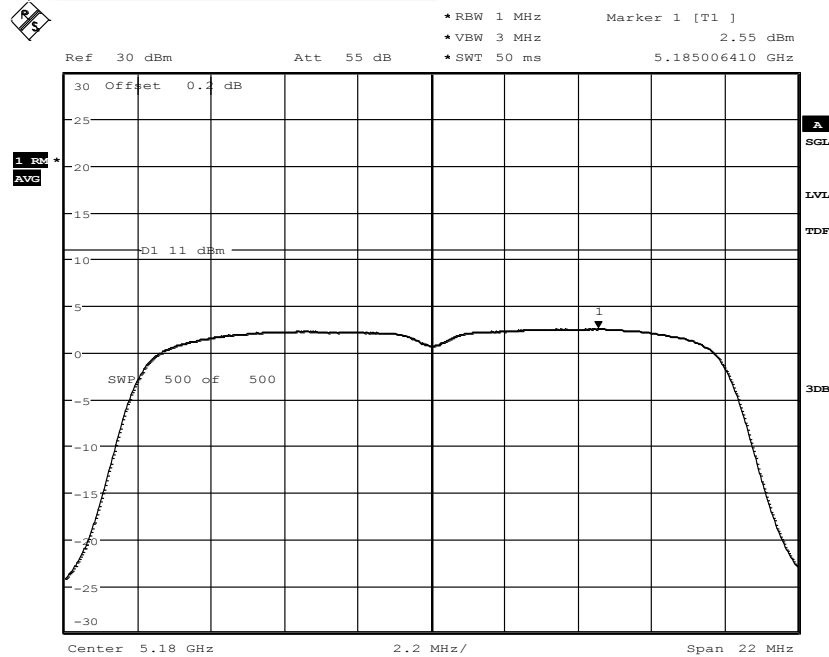
Date: 9.JUN.2016 13:47:20

Diagram n(HT20)-Mode MCS0 Ch36:



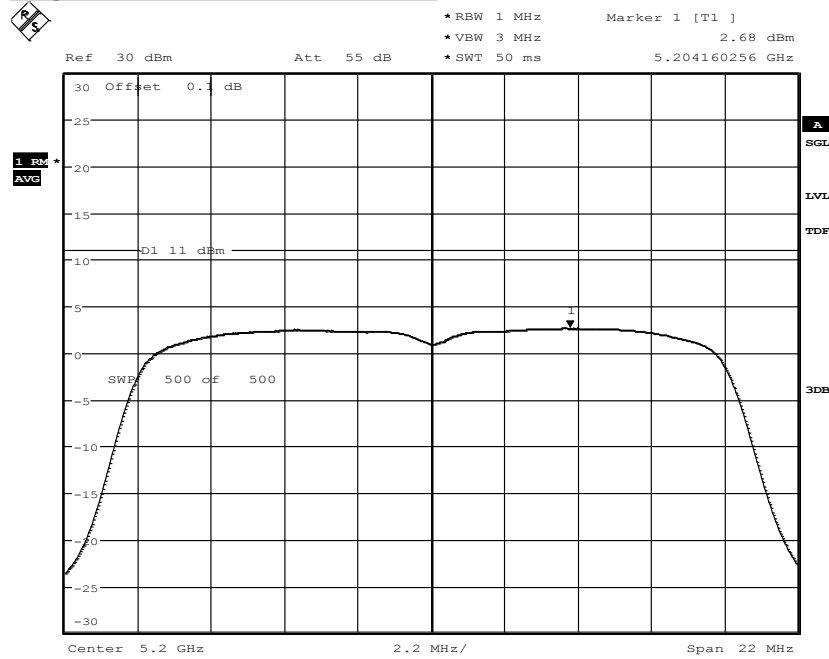
Date: 9.JUN.2016 11:50:20

Diagram n(HT20)-Mode MCS2 Ch36:



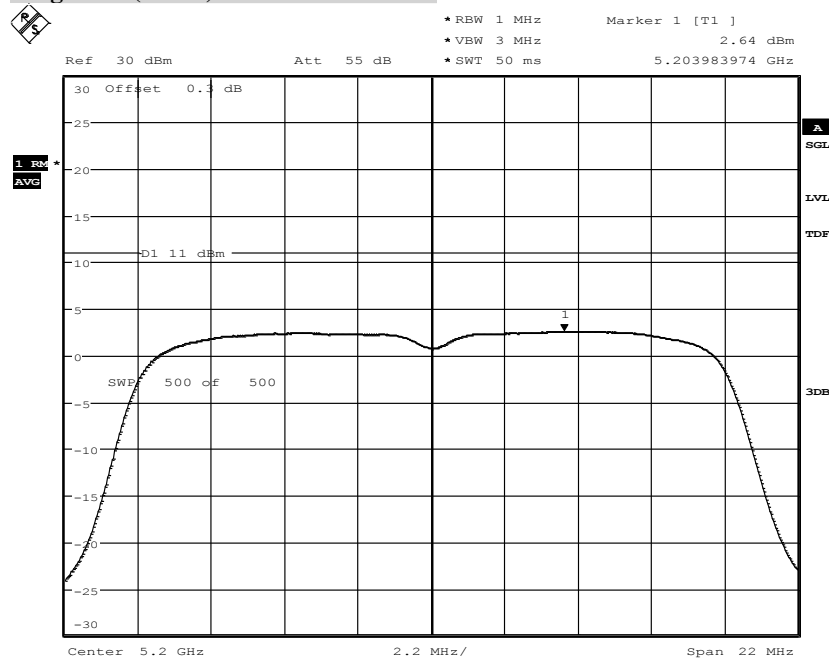
Date: 9.JUN.2016 12:23:39

Diagram n(HT20)-Mode MCS0 Ch40:



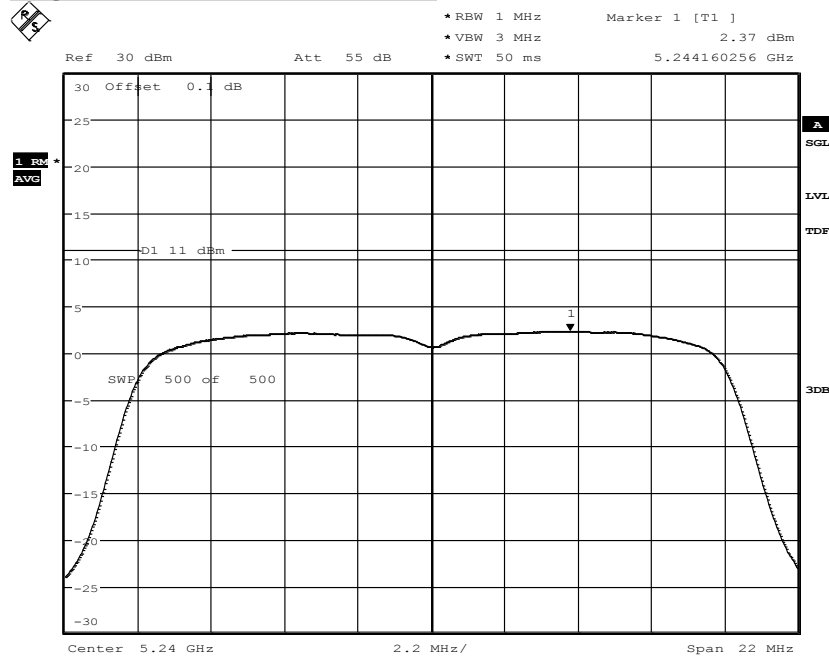
Date: 9.JUN.2016 11:51:53

Diagram n(HT20)-Mode MCS3 Ch40:



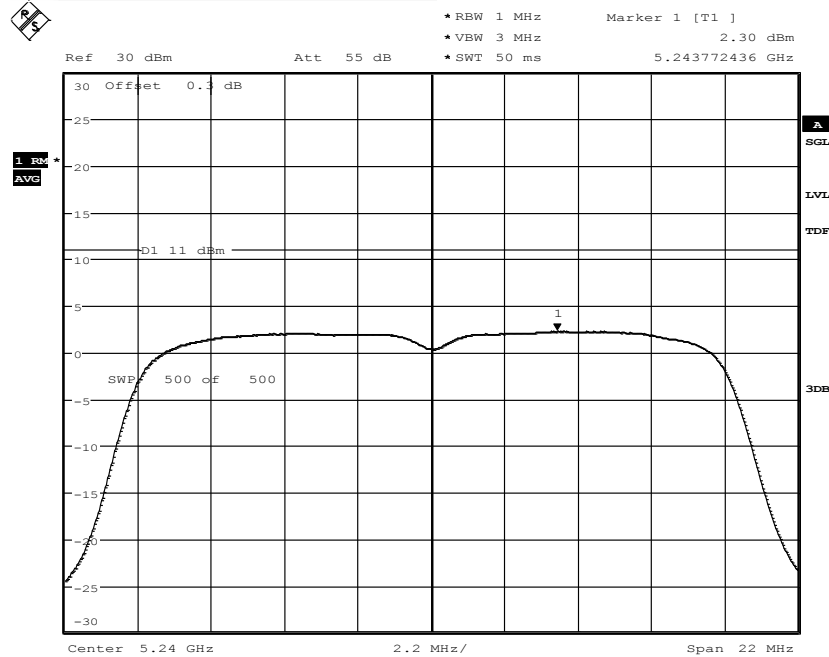
Date: 9.JUN.2016 12:20:16

Diagram n(HT20)-Mode MCS0 Ch48:



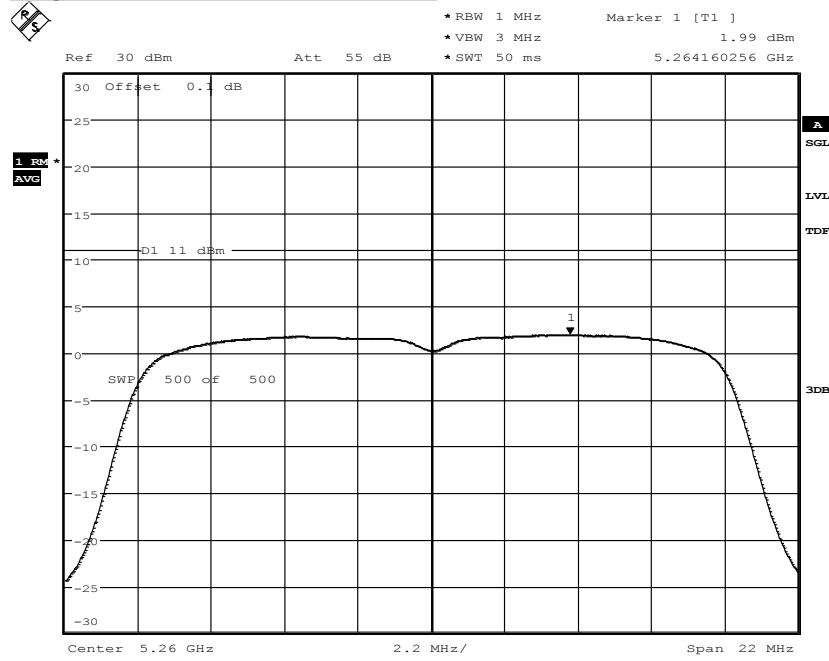
Date: 9.JUN.2016 11:53:16

Diagram n(HT20)-Mode MCS3 Ch48:



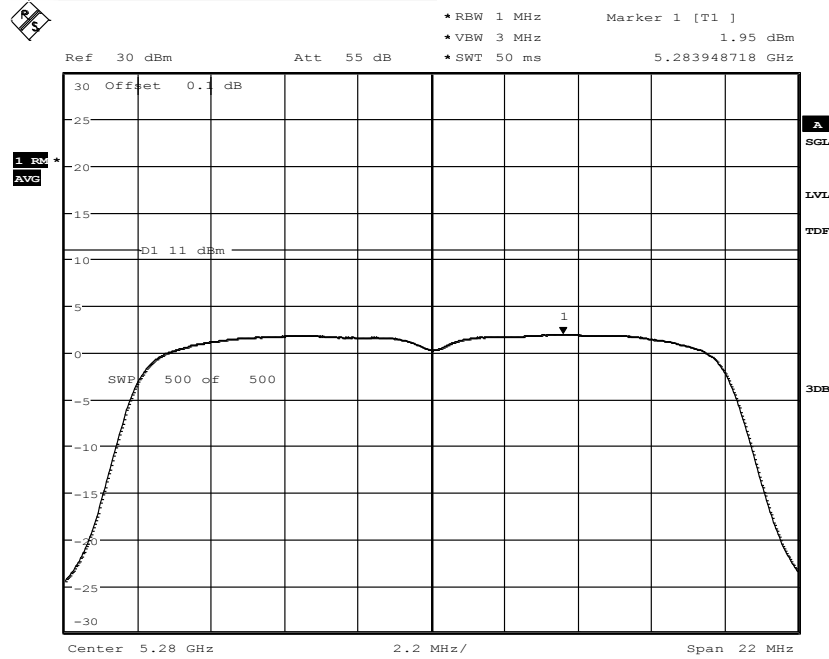
Date: 9.JUN.2016 12:18:35

Diagram n(HT20)-Mode MCS0 Ch52:



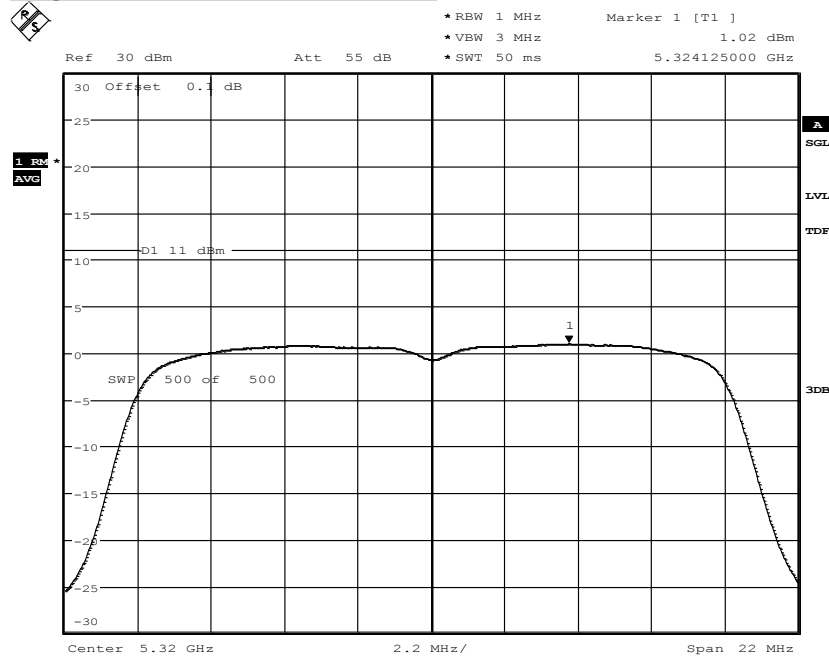
Date: 9.JUN.2016 11:55:41

Diagram n(HT20)-Mode MCS0 Ch56:



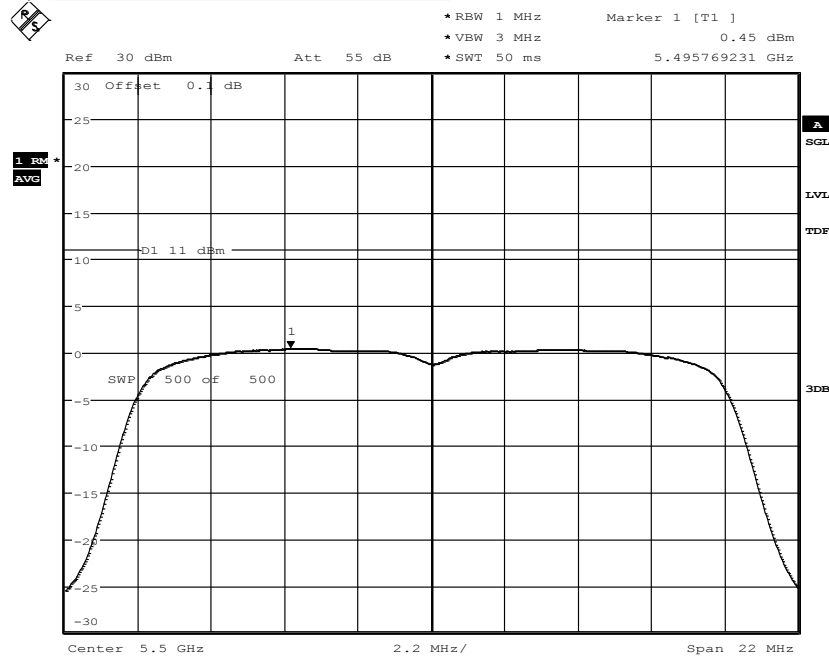
Date: 9.JUN.2016 11:57:17

Diagram n(HT20)-Mode MCS0 Ch64:



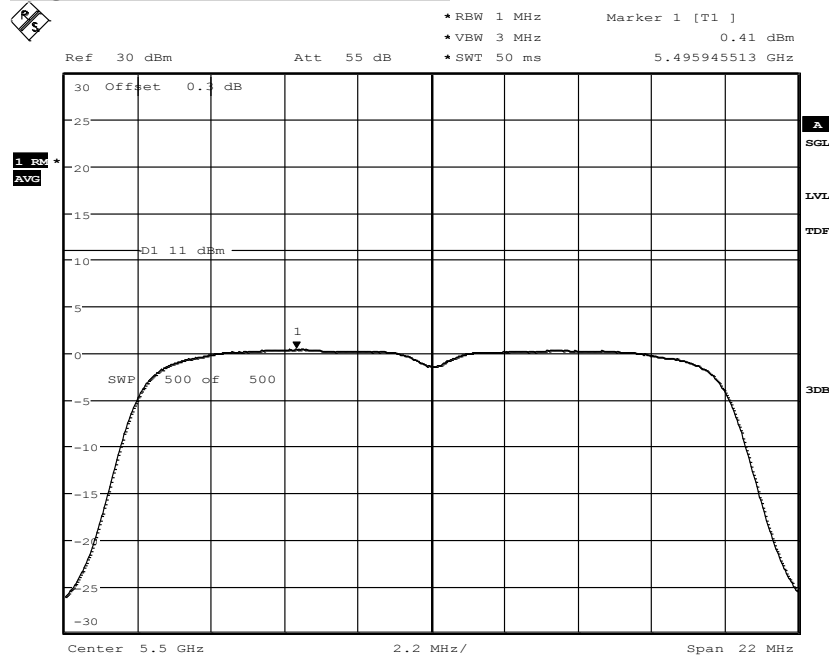
Date: 9.JUN.2016 11:59:04

Diagram n(HT20)-Mode MCS0 Ch100:



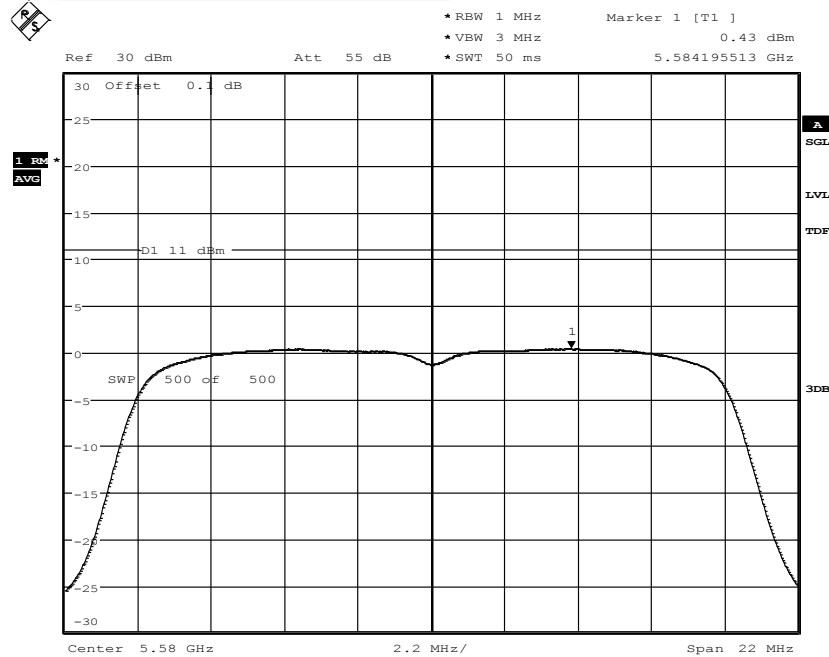
Date: 9.JUN.2016 12:01:02

Diagram n(HT20)-Mode MCS3 Ch100:



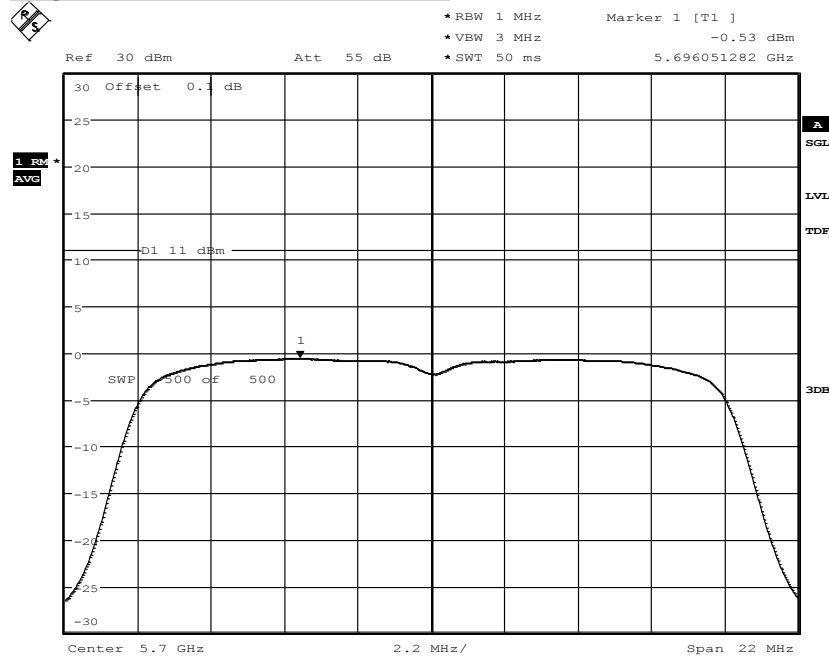
Date: 9.JUN.2016 12:14:28

Diagram n(HT20)-Mode MCS0 Ch116:



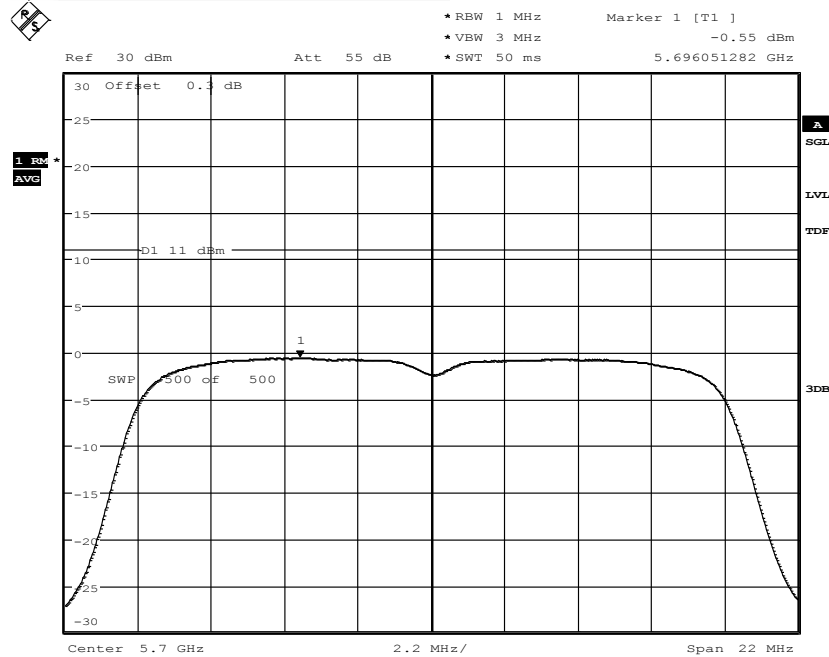
Date: 9.JUN.2016 12:03:37

Diagram n(HT20)-Mode MCS0 Ch140:



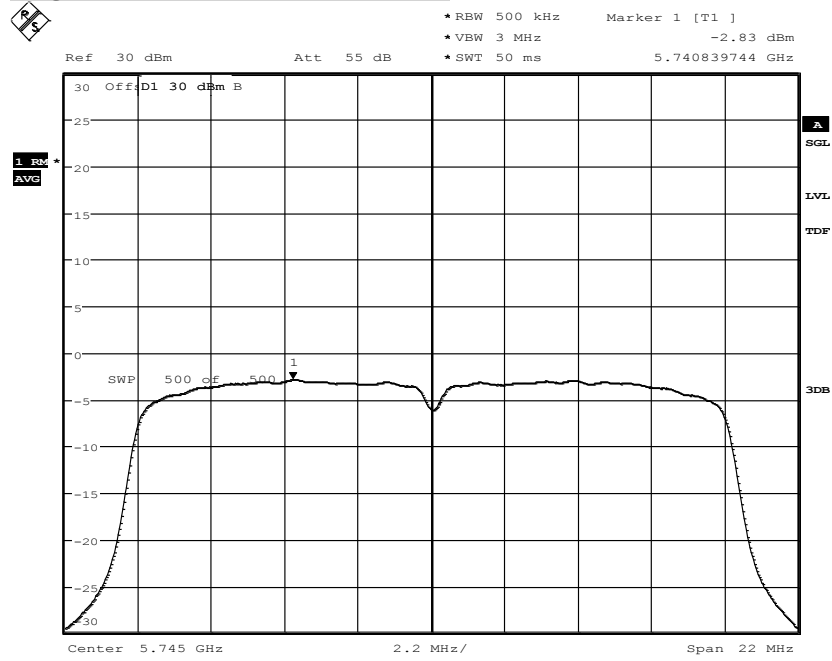
Date: 9.JUN.2016 12:05:34

Diagram n(HT20)-Mode MCS3 Ch140:



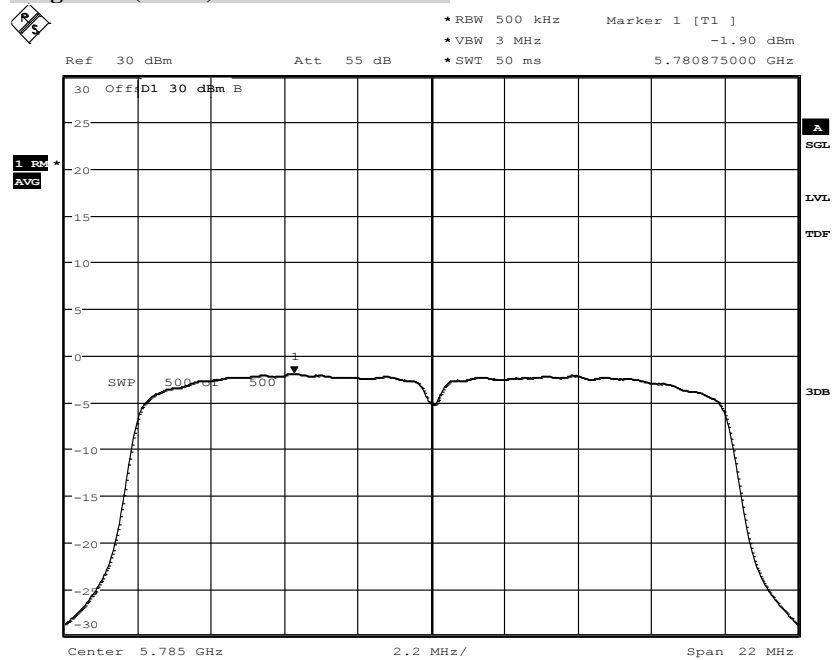
Date: 9.JUN.2016 12:11:29

Diagram n(HT20)-Mode MCS0 Ch149:



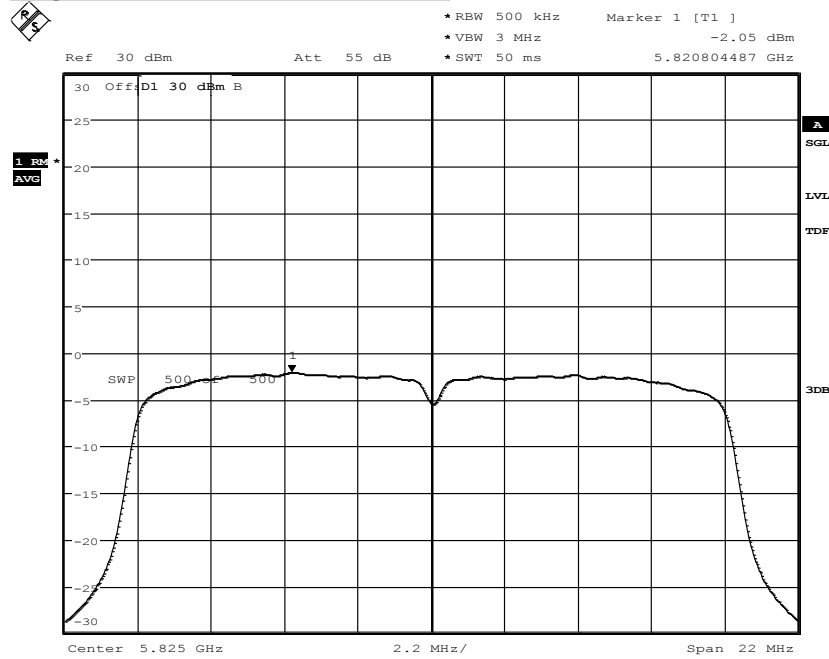
Date: 9.JUN.2016 12:27:04

Diagram n(HT20)-Mode MCS0 Ch157:



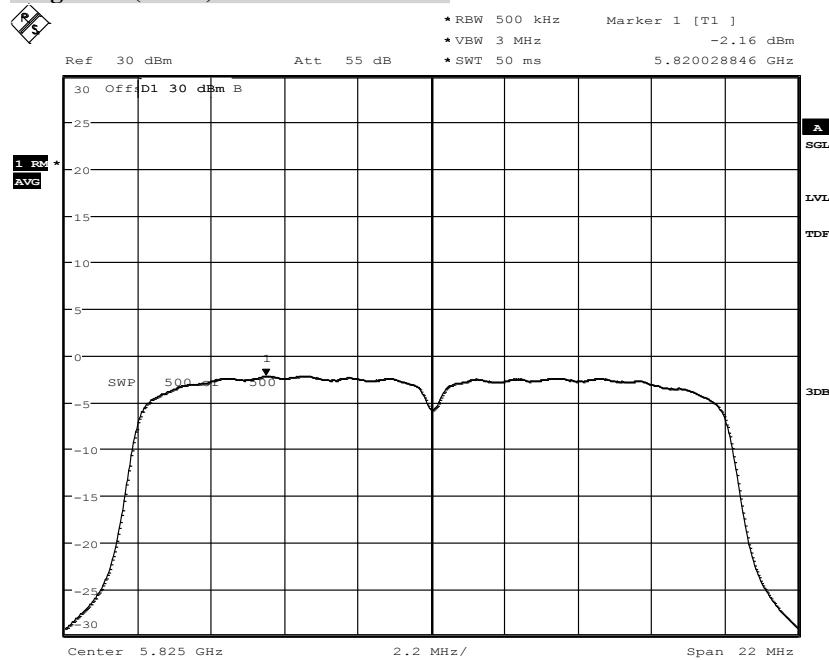
Date: 9.JUN.2016 12:29:22

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)

2.09_WLAN_n(HT20)_MCS0_Ch100_9kHz-30 MHz

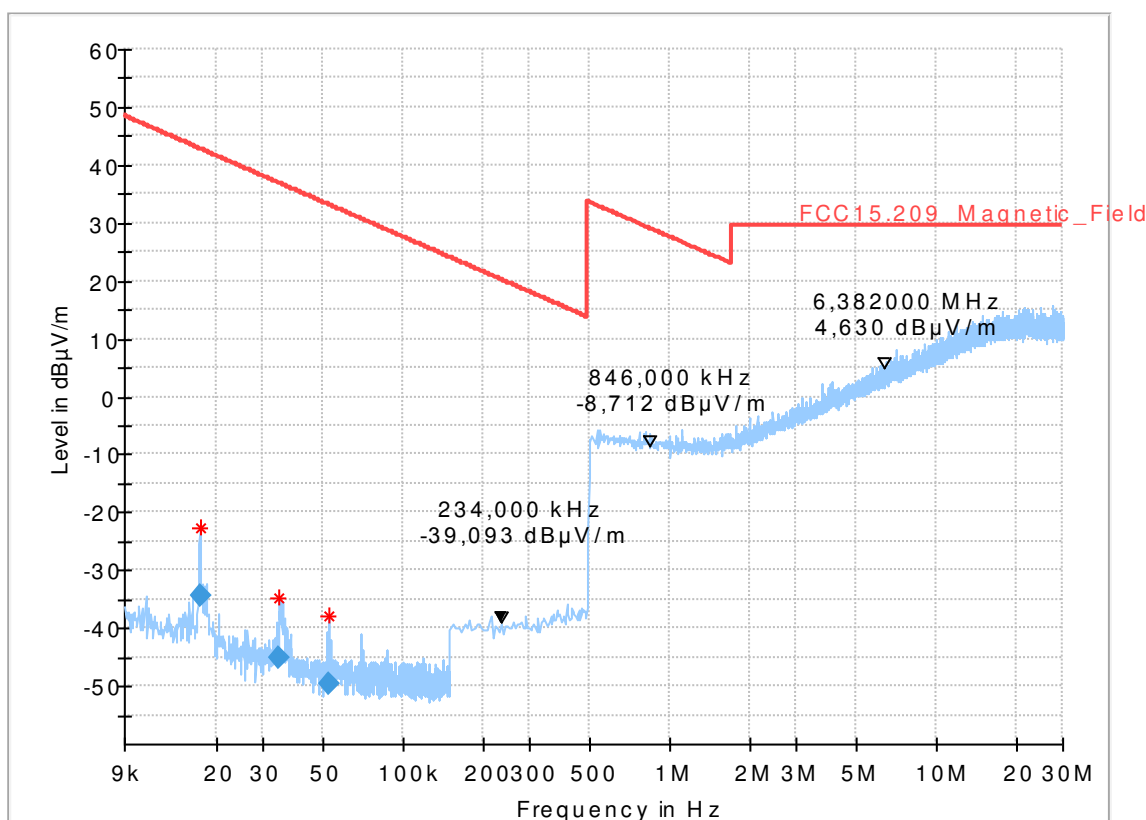
Common Information

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
Operating Mode:	TX-on WLAN 802.11 n(HT20), channel 100; MCS0;
Operator Name:	MFr
Operating conditions:	Humidity: 45%rH; Temperature: 22°C
Power during tests:	full charged battery

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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 μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.017240	-34.31	42.87	77.17	1000.0	0.200	100.0	V	210.0	-58.7
0.034440	-45.25	36.86	82.10	1000.0	0.200	100.0	V	332.0	-59.5
0.052680	-49.47	33.17	82.64	1000.0	0.200	100.0	V	223.0	-59.7

(

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

Diagram No: 3.09_WLAN_n(HT20)_MCS0_Ch100_30 MHz-1GHz

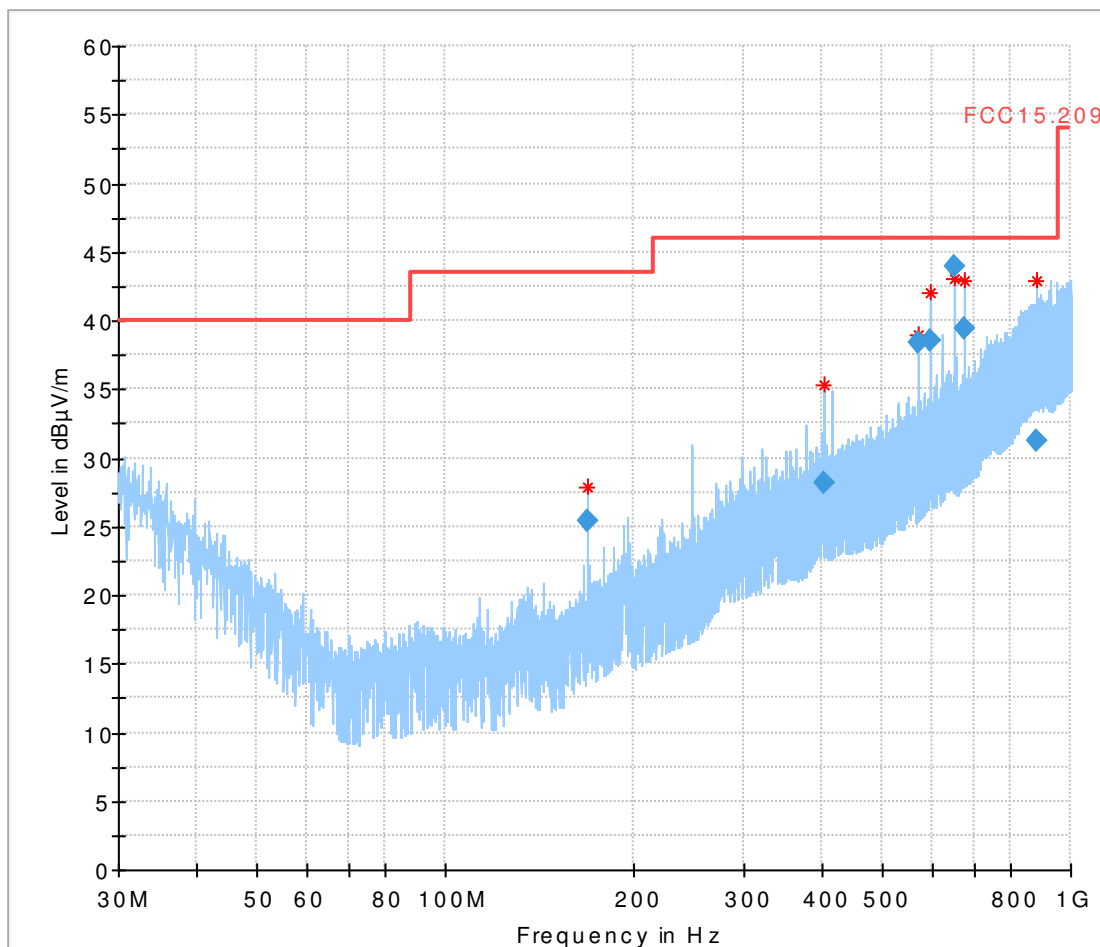
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used filter:	TP NLP-1200
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	Aph
Operating conditions:	TX-on Continuous
Operating Mode:	TX-on WLAN 802.11 n(HT20)-mode, BW 20 MHz channel 40; MCS0

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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 μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
169.010000	25.41	43.50	18.09	1000.0	120.000	134.0	H	101.0	90.0	10.5
402.990000	28.22	46.00	17.78	1000.0	120.000	349.0	V	74.0	90.0	18.7
572.010000	38.43	46.00	7.57	1000.0	120.000	129.0	H	329.0	0.0	21.8
597.960000	38.56	46.00	7.44	1000.0	120.000	105.0	H	105.0	0.0	22.5
649.990000	44.01	46.00	1.99	1000.0	120.000	105.0	H	111.0	0.0	23.3
675.980000	39.41	46.00	6.59	1000.0	120.000	166.0	H	90.0	0.0	23.5
882.690000	31.21	46.00	14.79	1000.0	120.000	305.0	H	254.0	90.0	26.7

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

Diagram No: 4.09_WLAN 802.11_TX_n-mode_BW 20 MHz_CH100_MCS0

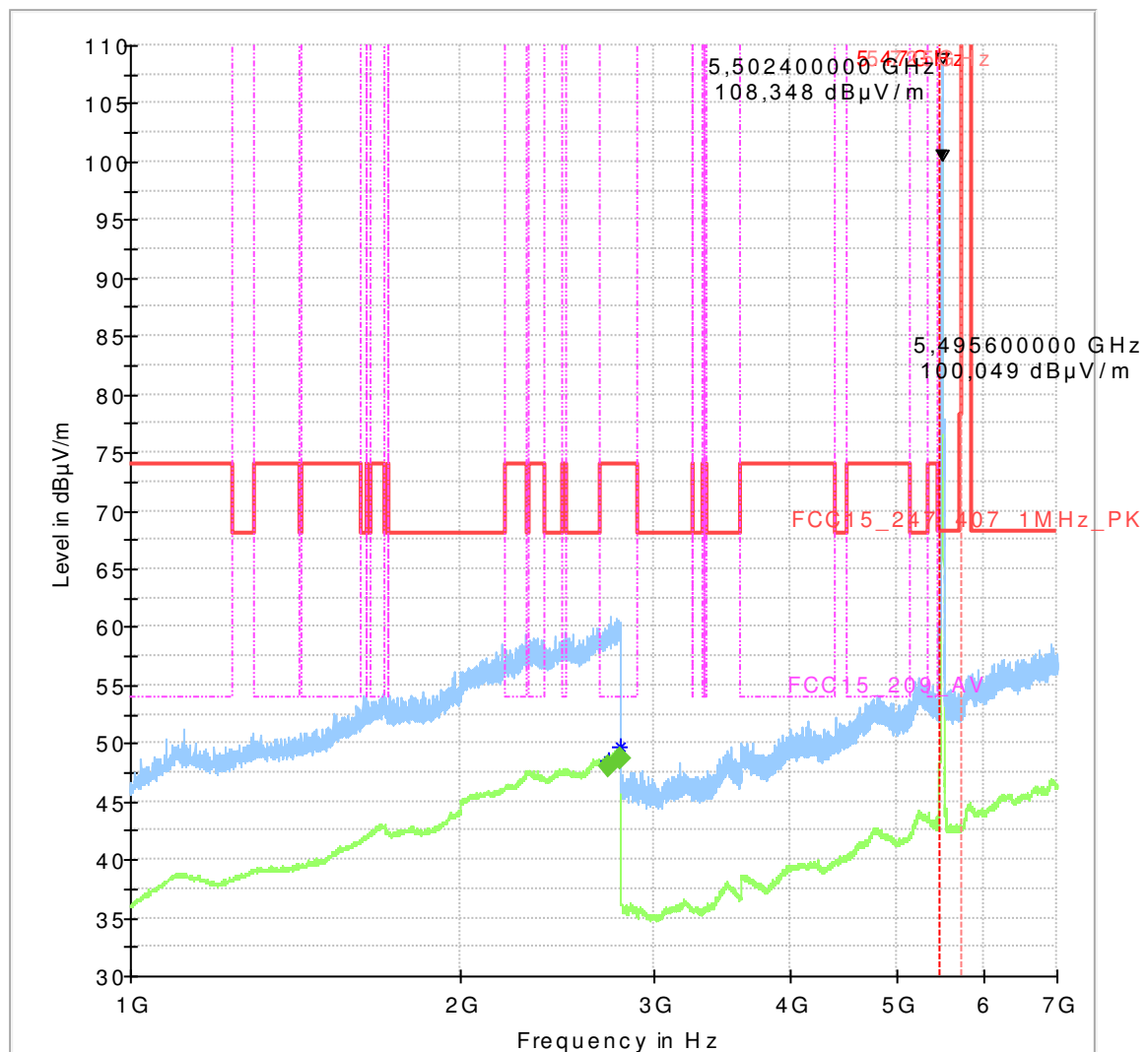
Common Information

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

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dB μ V/m)	RMS (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
2730.400000	---	47.98	54.00	6.02	100.0	1000.000	155.0	H	153.0	0.0
2797.600000	---	48.63	54.00	5.37	100.0	1000.000	155.0	H	257.0	0.0

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

Frequency (MHz)	Corr .	Comment
2730.400000	43.4	16:07:10 - 15.03.2016
2797.600000	44.1	16:08:38 - 15.03.2016

Diagram No: 4.09a_WLAN_TX_n(HT20)_MCS0_CH100_7-18 GHz

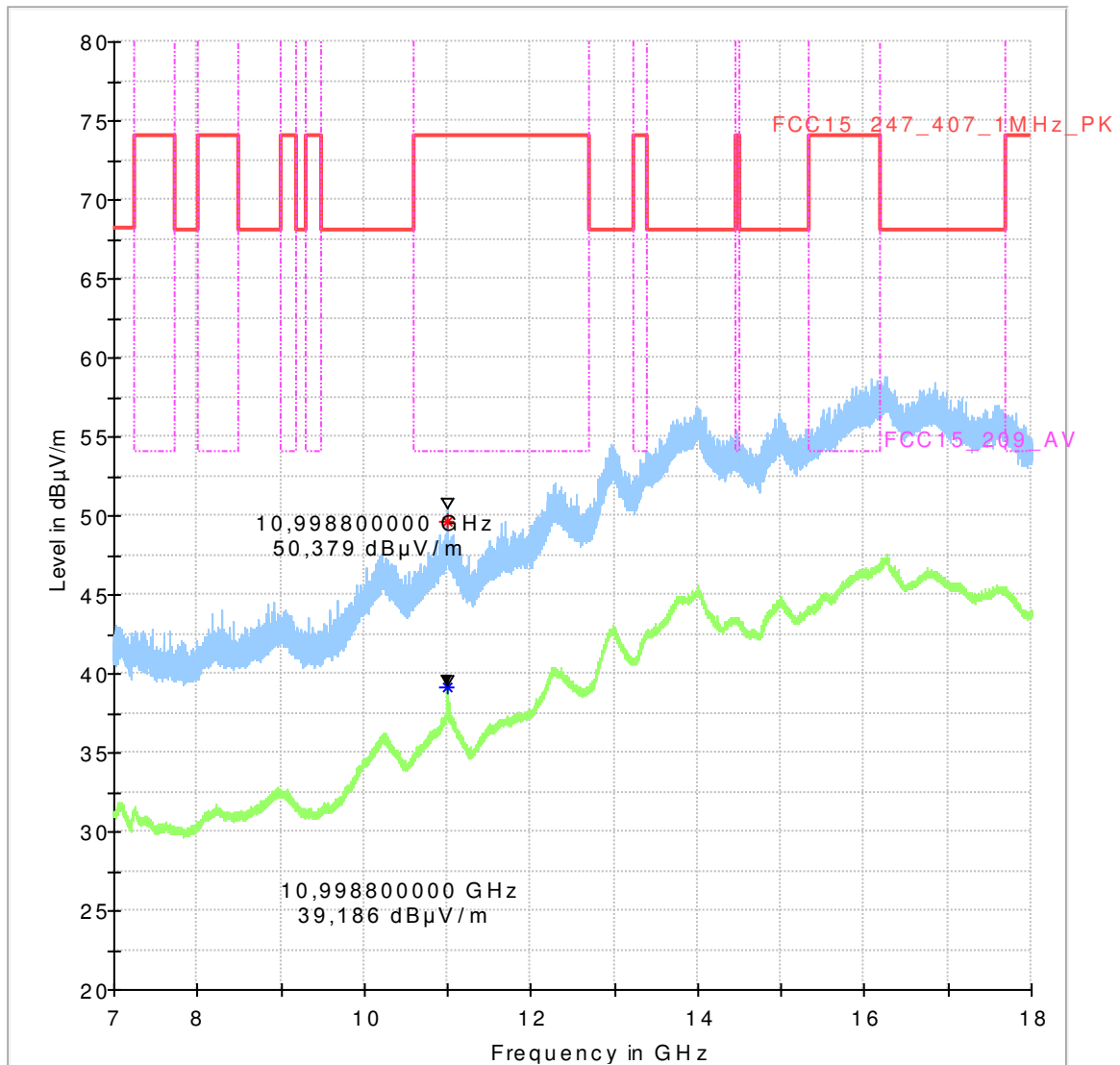
Common Information

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:	Aph

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	RMS (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
10998.800000	---	39.19	54.00	14.81	---	---	155.0	H	180.0
11001.200000	49.58	---	74.00	24.42	---	---	155.0	H	170.0

(continuation of the "Critical_Freqs" table from column 15 ...)

Frequency (MHz)	Elevation (deg)	Corr. (dB)	Comment
10998.800000	0.0	12.2	14:49:32 - 16.03.2016
11001.200000	0.0	12.2	14:49:30 - 16.03.2016

Diagram No: 4.09b_WLAN_TX_n(HT20)_MCS0_CH100_18-40 GHz

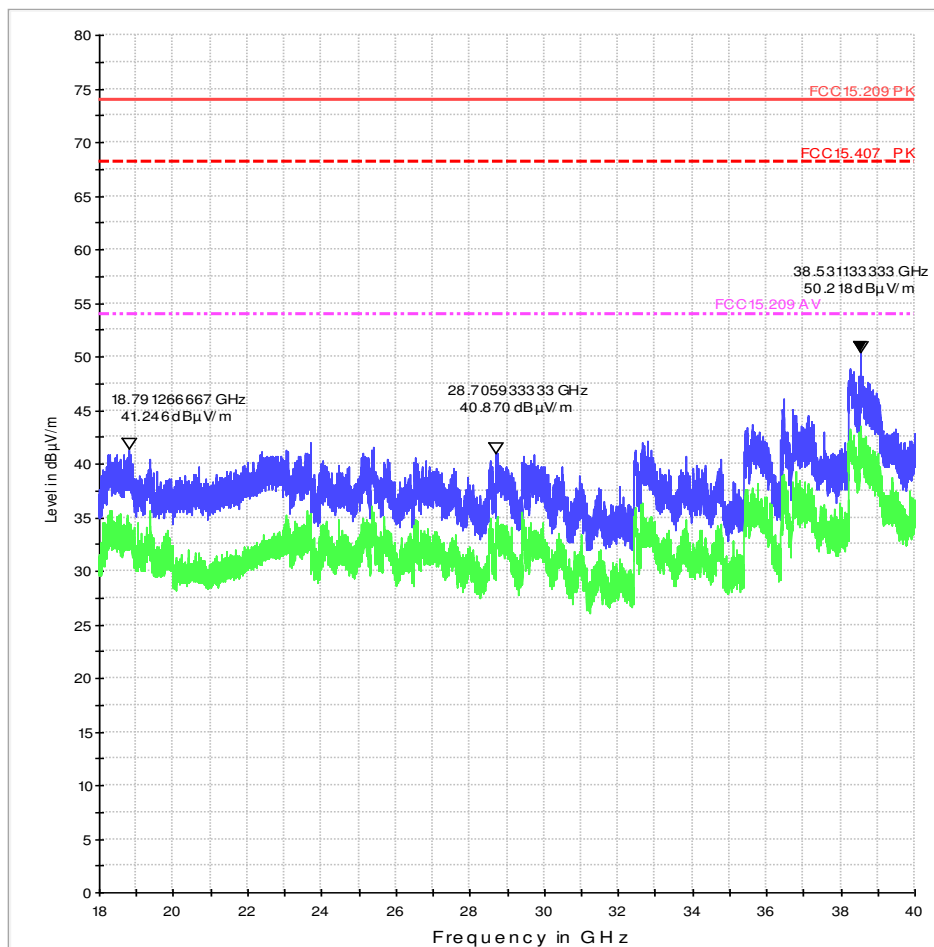
Common Information

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:	TFR

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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_a mode _6 Mbps_ CH36

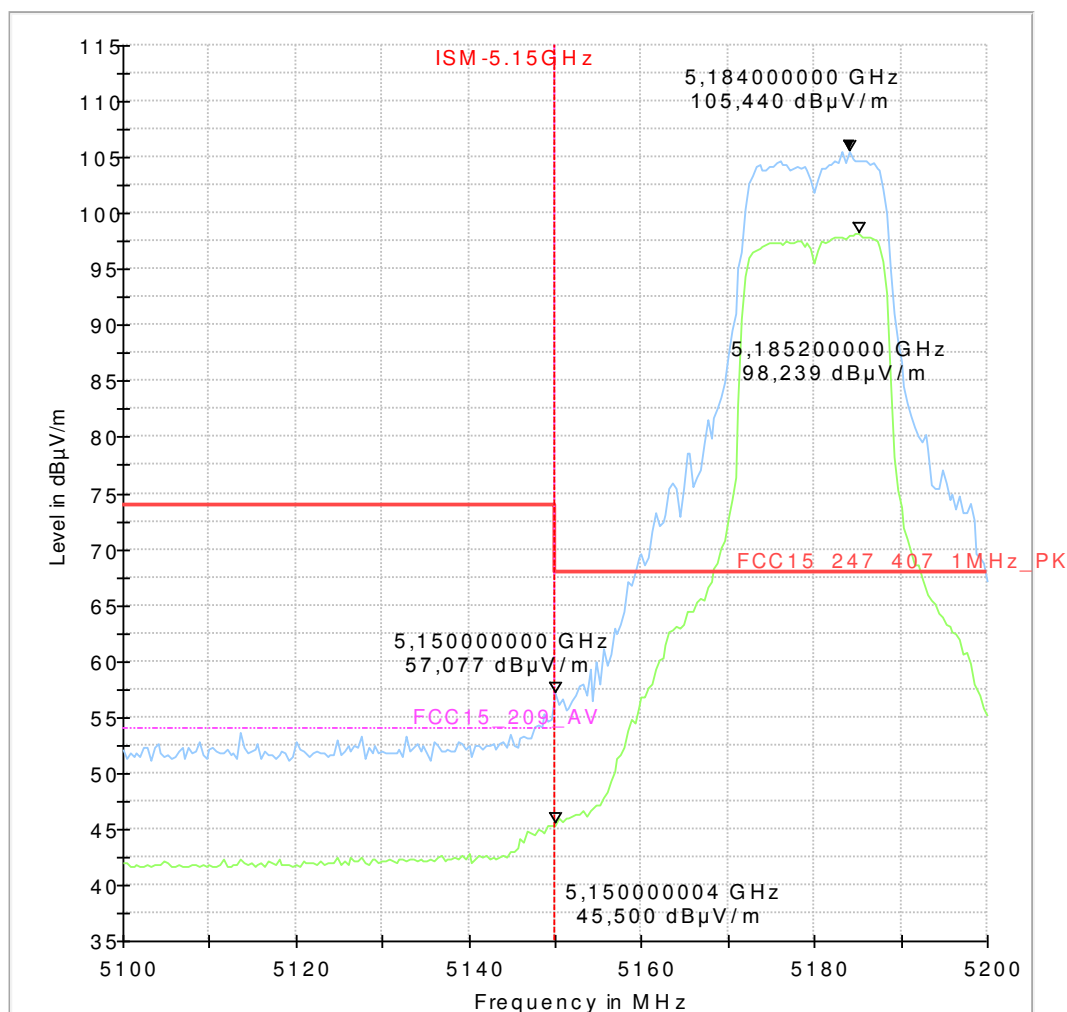
Common Information

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:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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

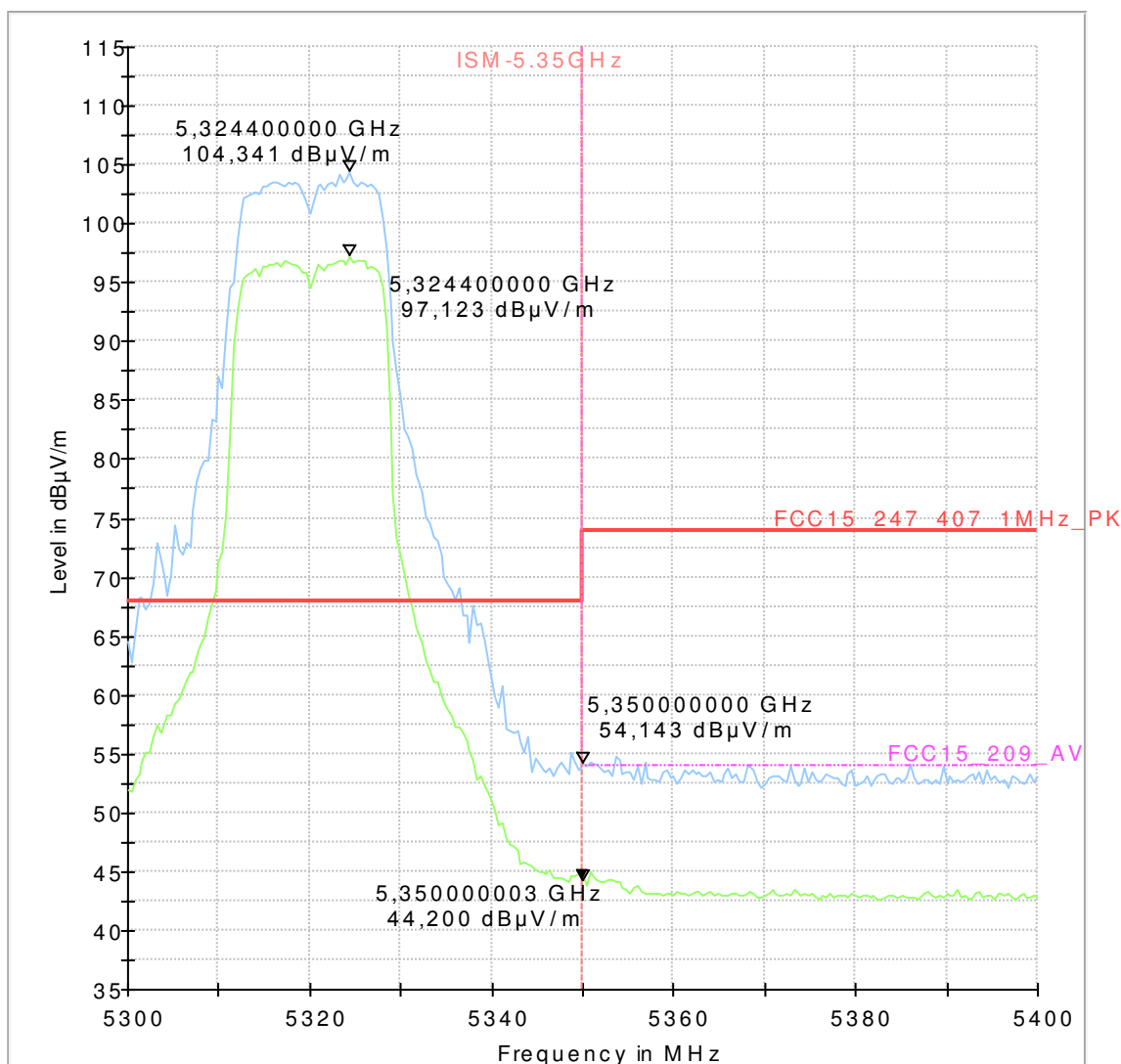
Common Information

Test Description:	Radiated field strength emission in 3m distance Band Edge
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/APh

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GRO
P/N:	911350015
S/N:	Z16P00044
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

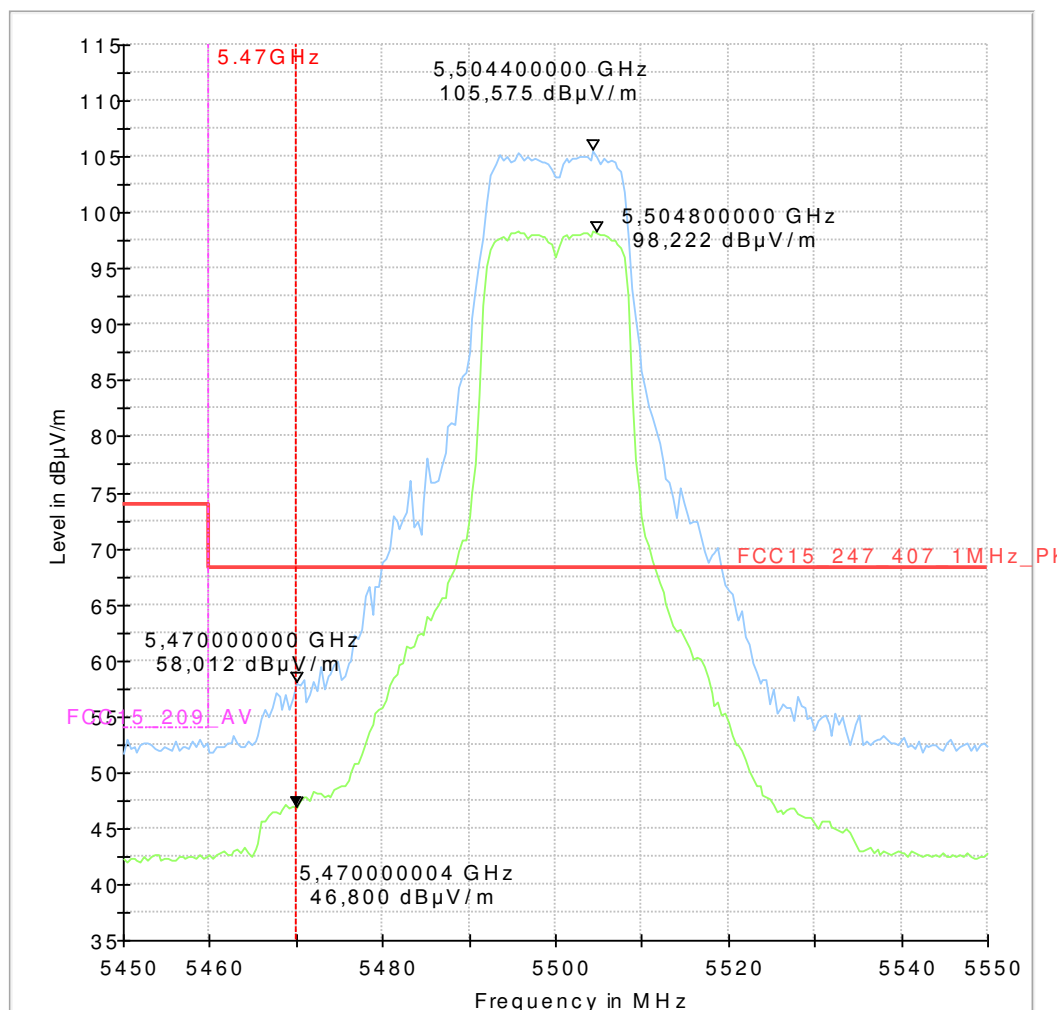
Common Information

Test Description:	Radiated field strength emission in 3m distance Band Edge
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:	Humidity: 31%RH; Temperature: 23°C
Operator Name:	PSa/APh

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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_a-mode_6 Mbps_CH140

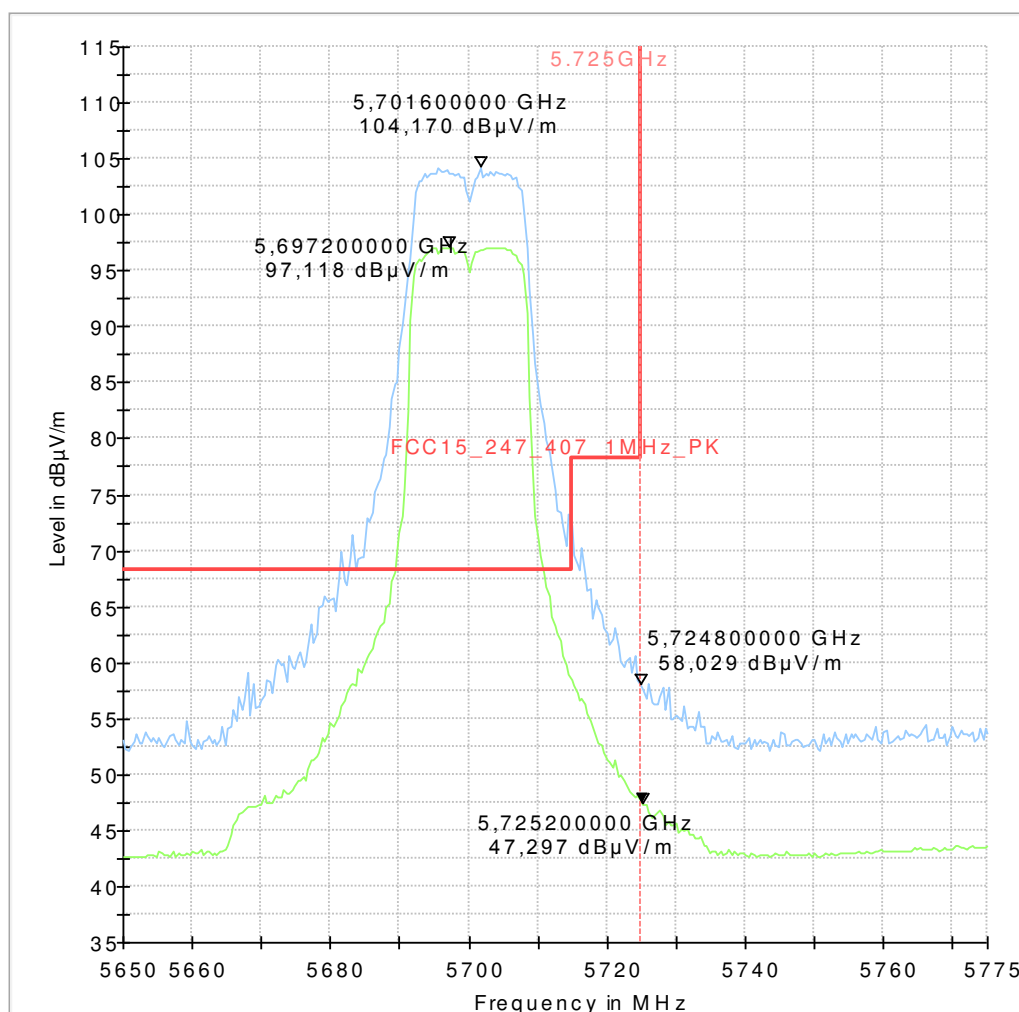
Common Information

Test Description:	Radiated field strength emission in 3m distance Band Edge
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:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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

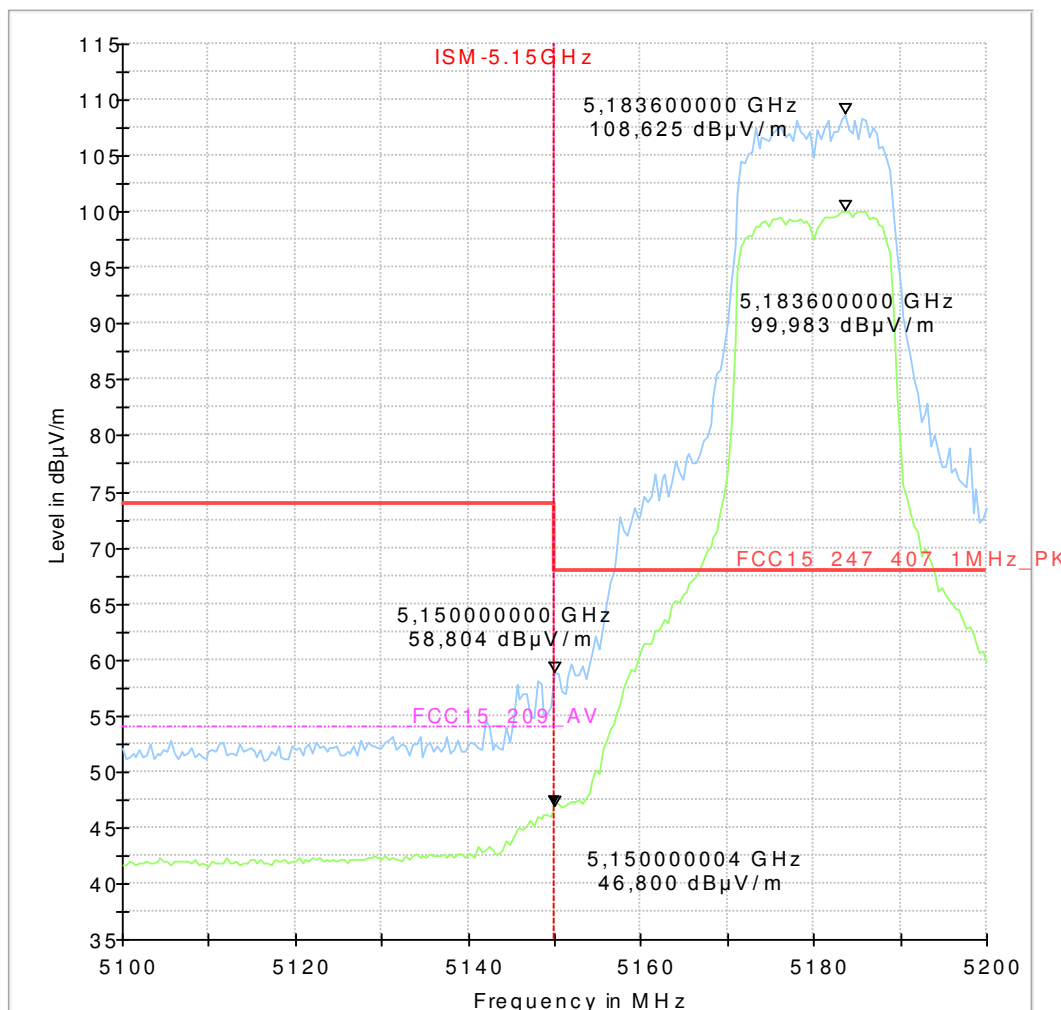
Common Information

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:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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

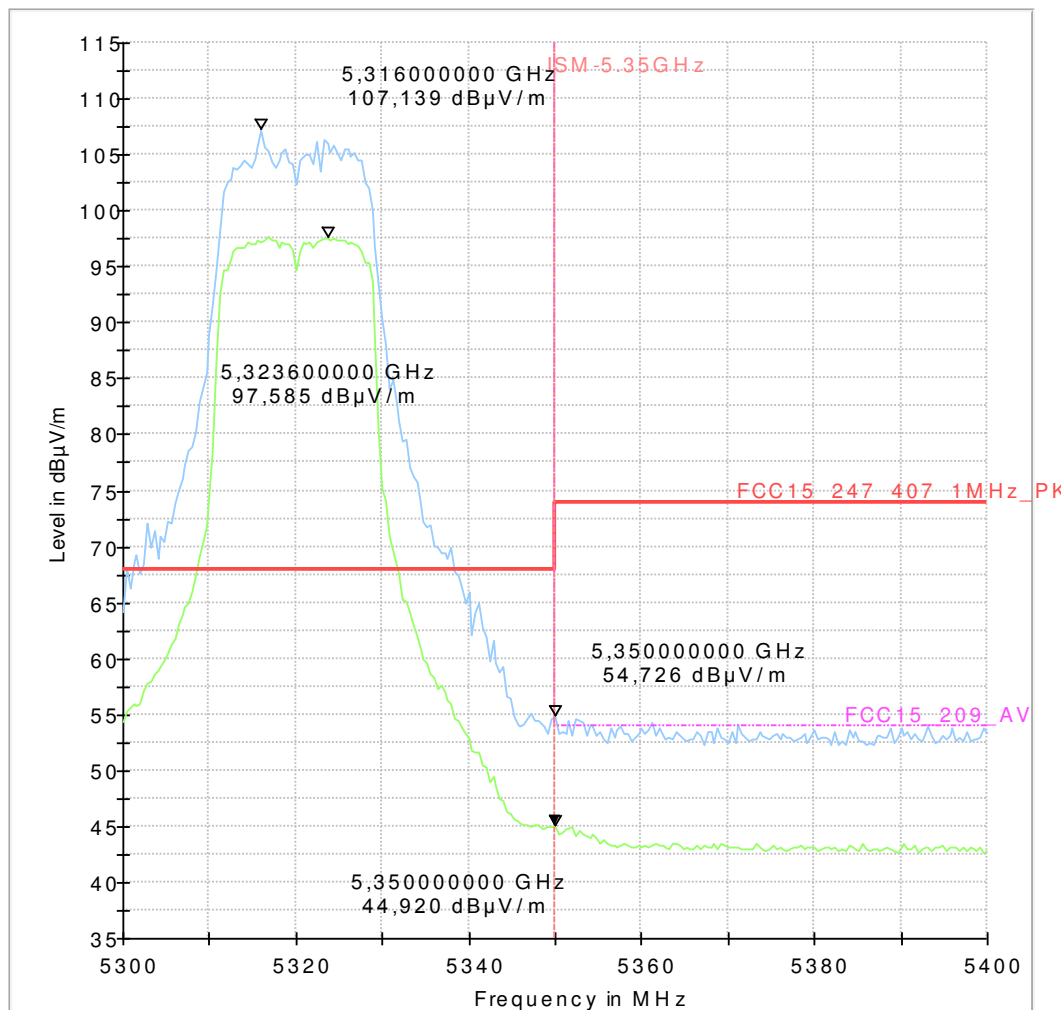
Common Information

Test Description:	Radiated field strength emission in 3m distance Band Edge
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:	P00AN04HL0HT0W7-GRO
P/N:	911350015
S/N:	Z16P00044
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

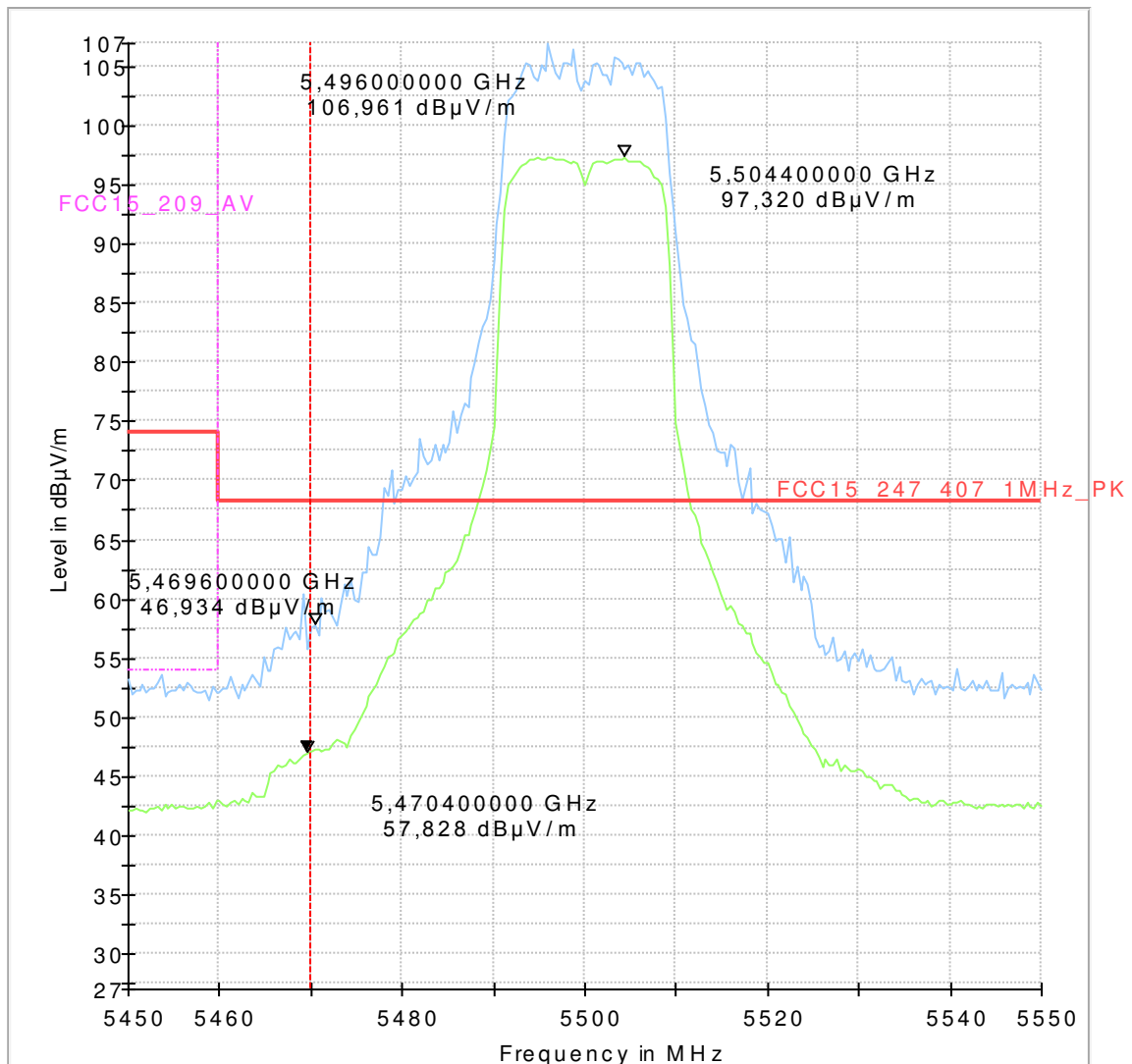
Common Information

Test Description:	Radiated field strength emission in 3m distance Band Edge
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: 31%rH; Temperature: 23°C
Operator Name:	PSa/APh

EUT Information

Manufacturer:	Datalogic ADCL S.r.l.
MODEL:	JOYA TOUCH
EuT Type:	P00AN04HL0HT0W7-GRO
P/N:	911350015
S/N:	Z16P00044
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

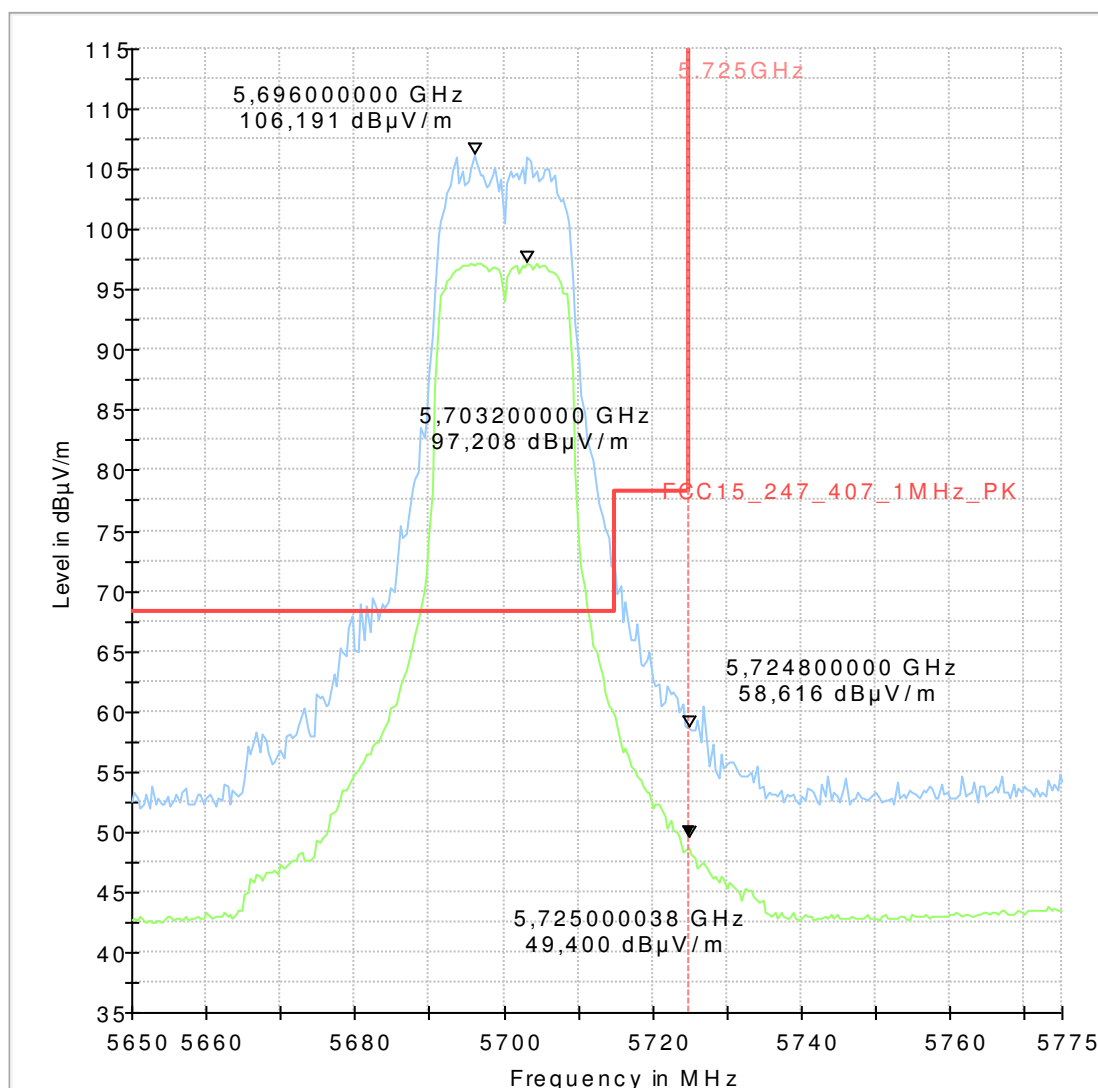
Common Information

Test Description:	Radiated field strength emission in 3m distance Band Edge
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:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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

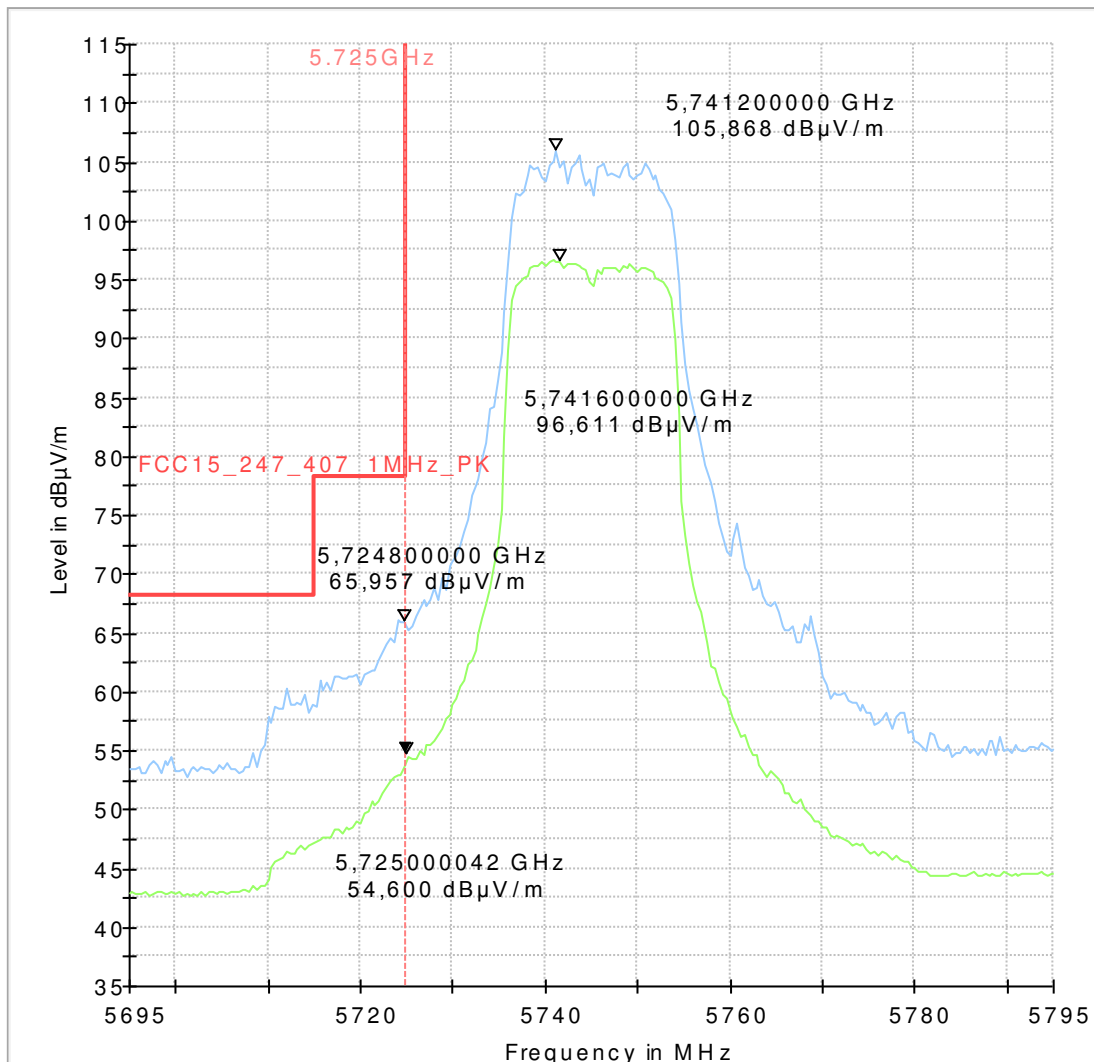
Common Information

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(HT20)-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:	P00AN04HL0HT0W7-GR0
P/N:	911350015
S/N:	Z16P00044
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(HT20)-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:	P00AN04HL0HT0W7-GRO
P/N:	911350015
S/N:	Z16P00044
HW Version:	Beta HW Version
SW Version:	WEC7
Firmware Version:	2.16
Input:	Fully Charged Internal Battery

Full Spectrum

