

## 1.2.2 Internal Antenna

# 2.11a\_a-mode\_6MBps\_ch157

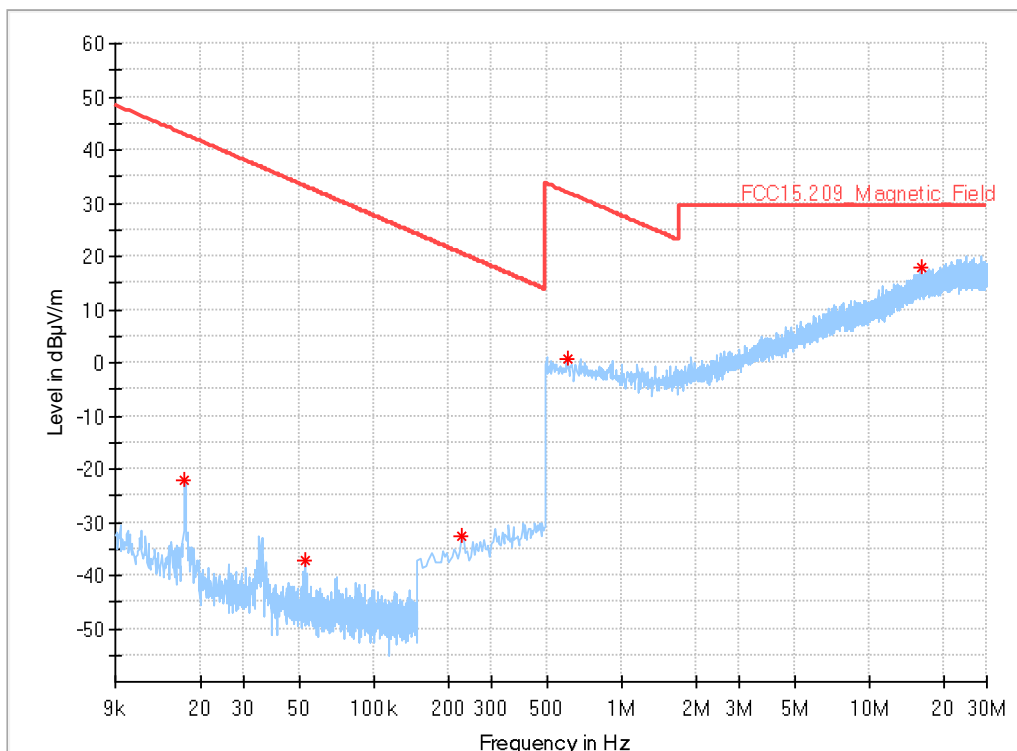
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	mkh
Operating Mode:	a-mode   6MBps   ch157   laying   PWR15
Environmental Conditions::	Humidity : 51% rH; Temperature: 22°C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margi n	Meas. Time (ms)	Bandwidt h	Pol	Azimit h	Corr. (dB/m)	Comment
0.017160	-22.00	42.91	64.91	---	---	V	35.0	-59.4	11:17:58 - 21.01.2020
0.052760	-37.25	33.15	70.40	---	---	V	305.0	-60.5	11:18:01 - 21.01.2020
0.226000	-32.53	20.52	53.05	---	---	V	125.0	-57.6	11:18:05 - 21.01.2020
0.606000	0.87	31.96	31.09	---	---	V	35.0	-20.7	11:18:07 - 21.01.2020
16.318000	18.00	29.54	11.54	---	---	V	125.0	0.0	11:18:10 - 21.01.2020

## 2.11b\_a-mode\_6MBps\_ch157

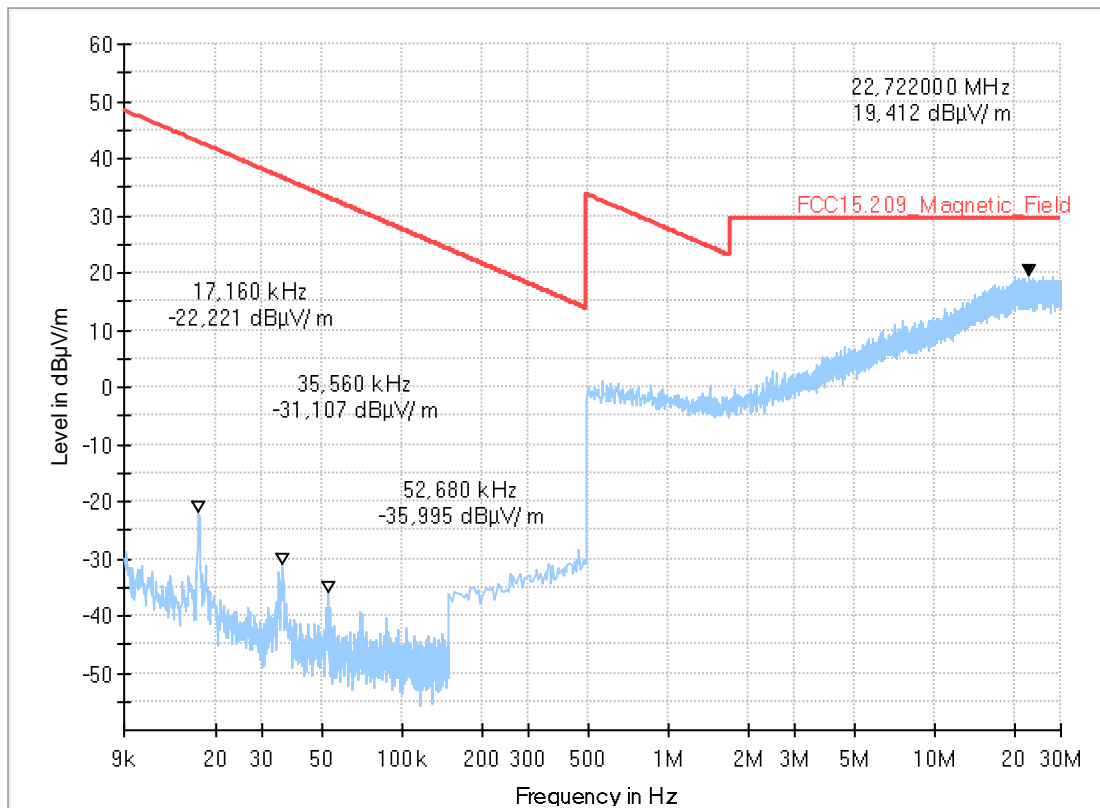
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	TFra
Operating Mode:	a-mode   6MBps   ch157   standing   PWR15
Environmental Conditions:.	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.12a\_n-mode\_MCS0\_ch151

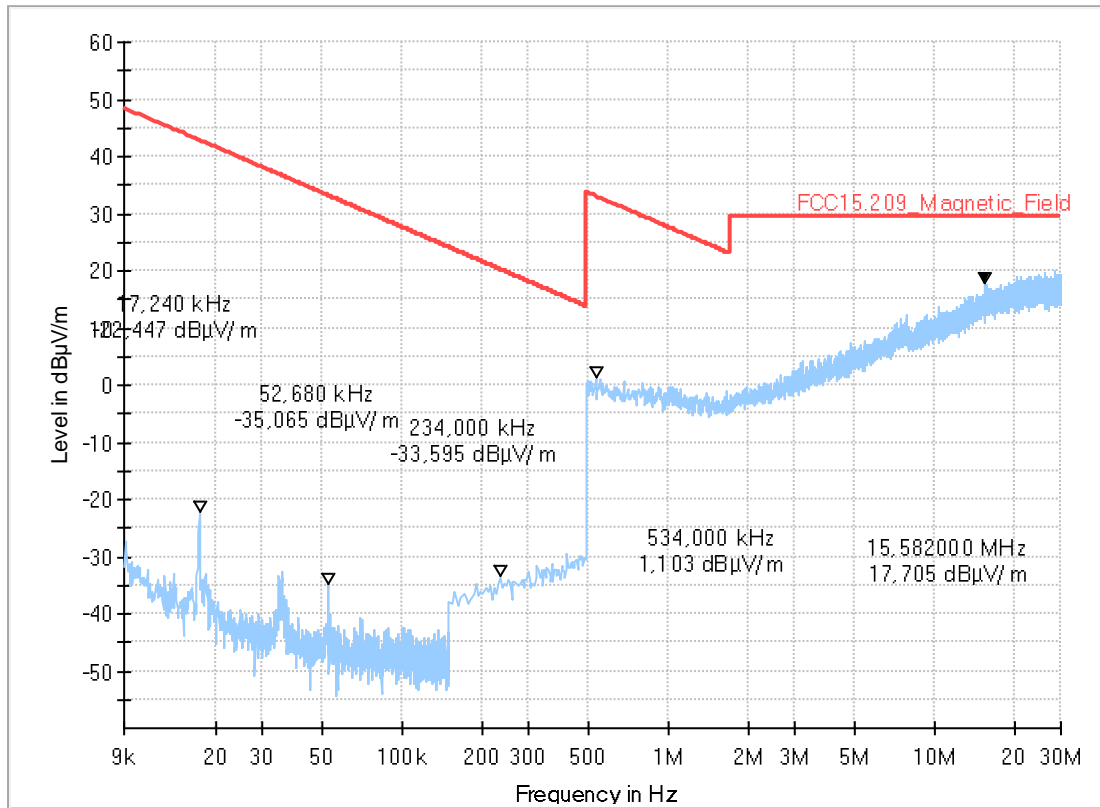
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	mkh
Operating Mode:	n-mode   MCS0   ch151   laying   PWR15
Environmental Conditions::	Humidity : 51% rH; Temperature: 22°C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.12b\_n-mode\_MCS0\_ch151

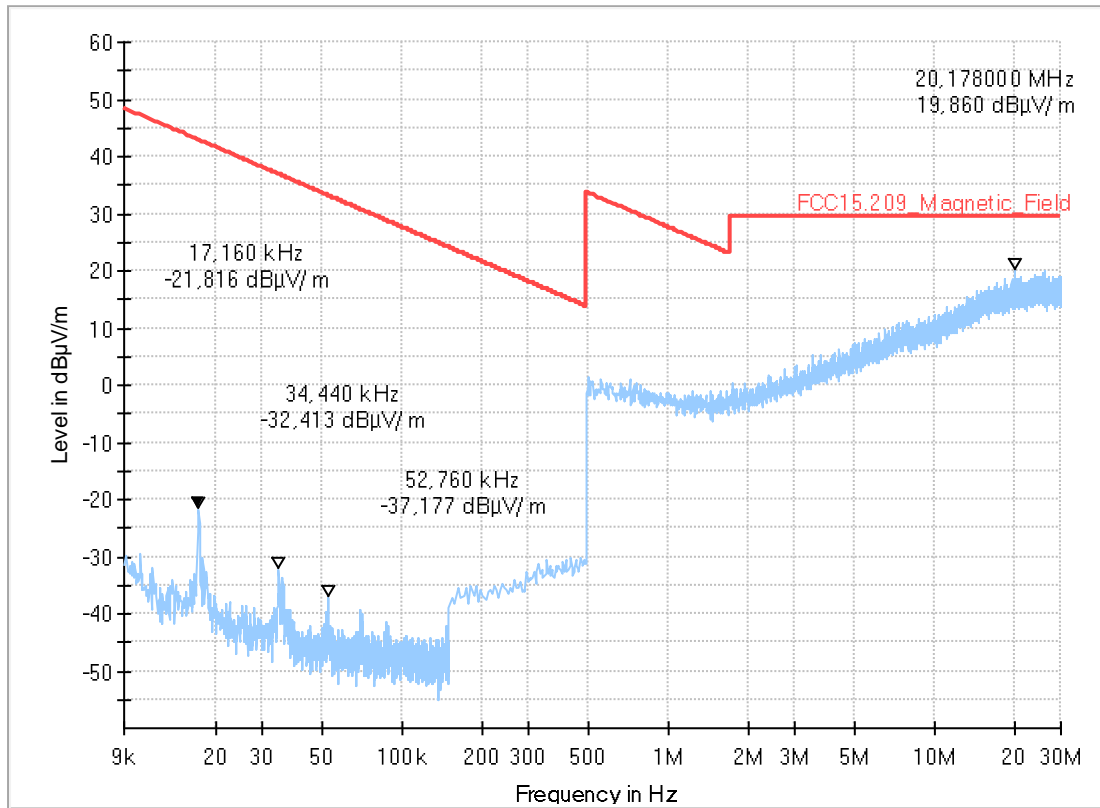
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	TFra
Operating Mode:	n-mode   HT40   MCS0   ch0151   standing   PWR15
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





## 2.13a\_ac-mode\_VHT-MCS0\_ch155

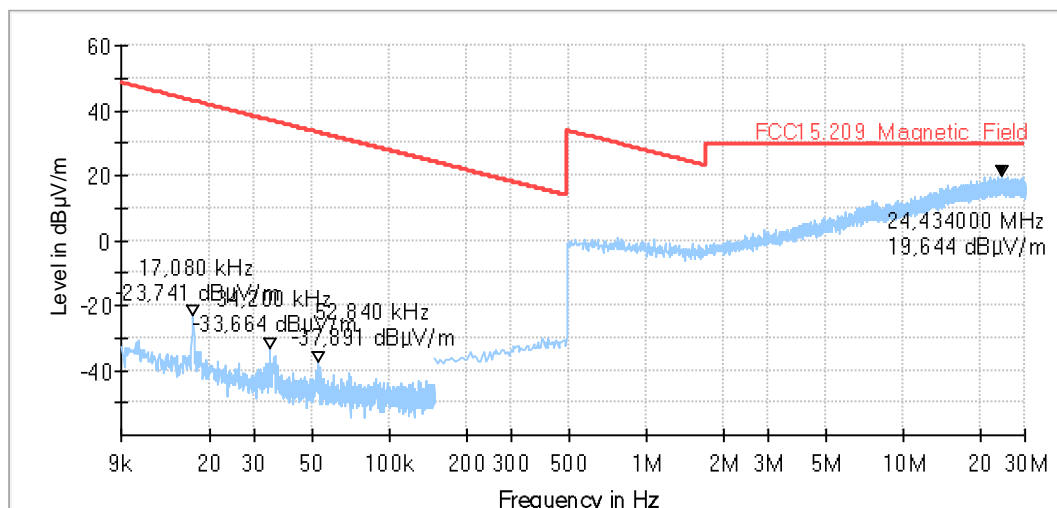
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	PMA
Operating Mode:	WLAN   TX   ac-mode   MCS0   ch155
Power during tests:	12V DC, 110V/60Hz, full loaded batteries
Comment 1:	Channel low/middle/high
Comment 2:	
Environmental Conditions::	Humidity : 31% rH; Temperature: 21 °C
EUT Setup:	laying
Verdict:	Passed
Comment:	

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.13b\_ac-mode\_VHT-MCS0\_ch155

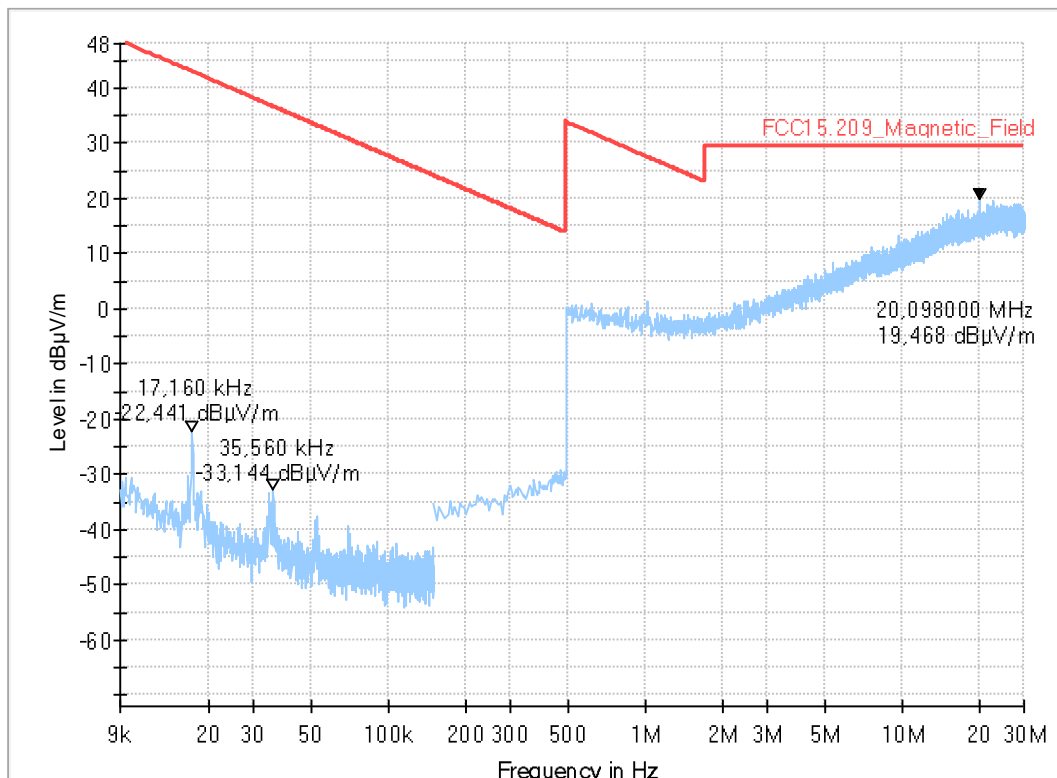
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	V10.50.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Test Standard:	FCC 15.205 § 15.209;
Operator:	PMa
Operating Mode:	ac-mode   HT80   MCS0   ch155   standing   PWR15
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C
EUT Setup:	standing

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.14a\_a-mode\_6MBps\_ch036

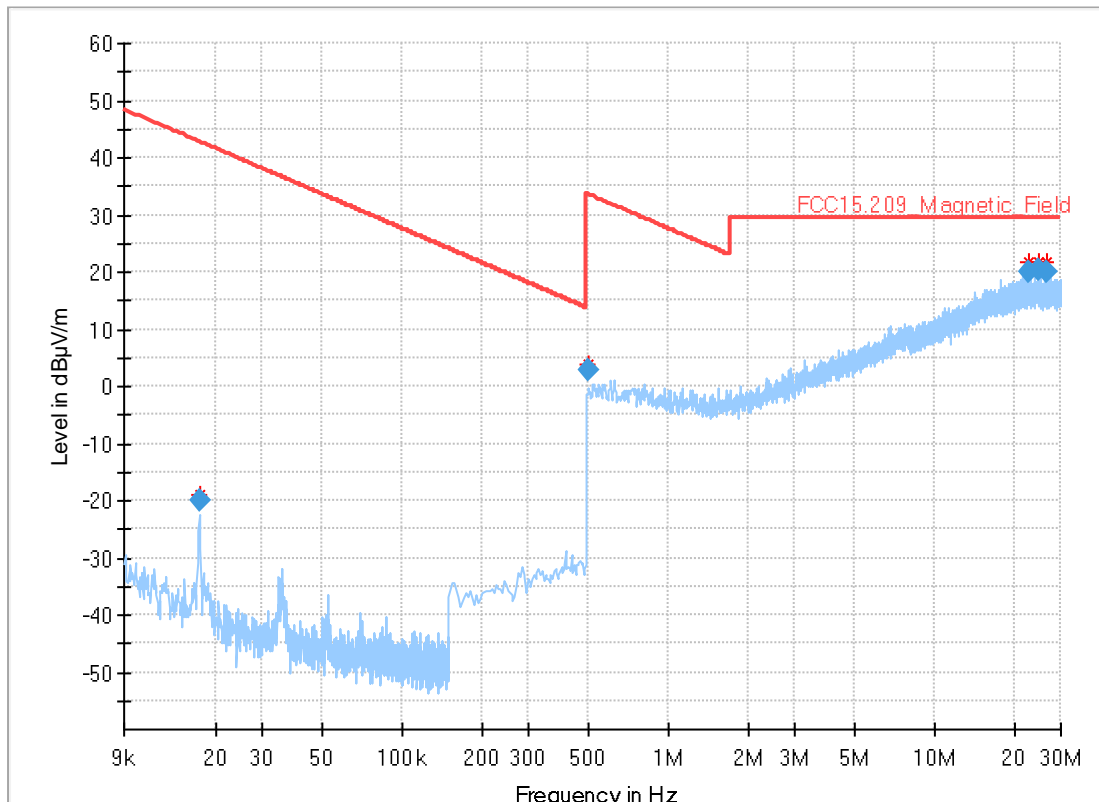
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	Tfa
Operating Mode:	a-mode   6MBps   ch036   laying   PWR15
Environmental Conditions:	Humidity : 51% rH; Temperature: 22°C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.14b\_a-mode\_6MBps\_ch036

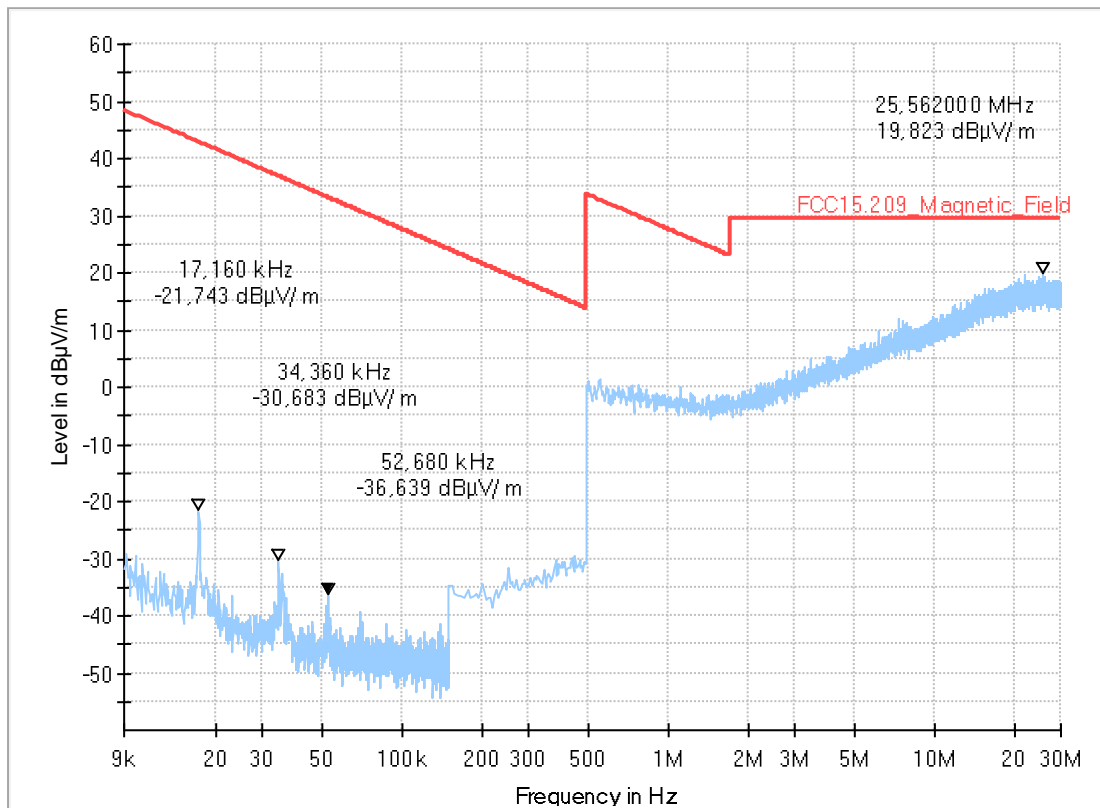
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	TFra
Operating Mode:	a-mode   6MBps   ch036   standing   PWR15
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.15a\_n-mode\_MCS0\_ch038

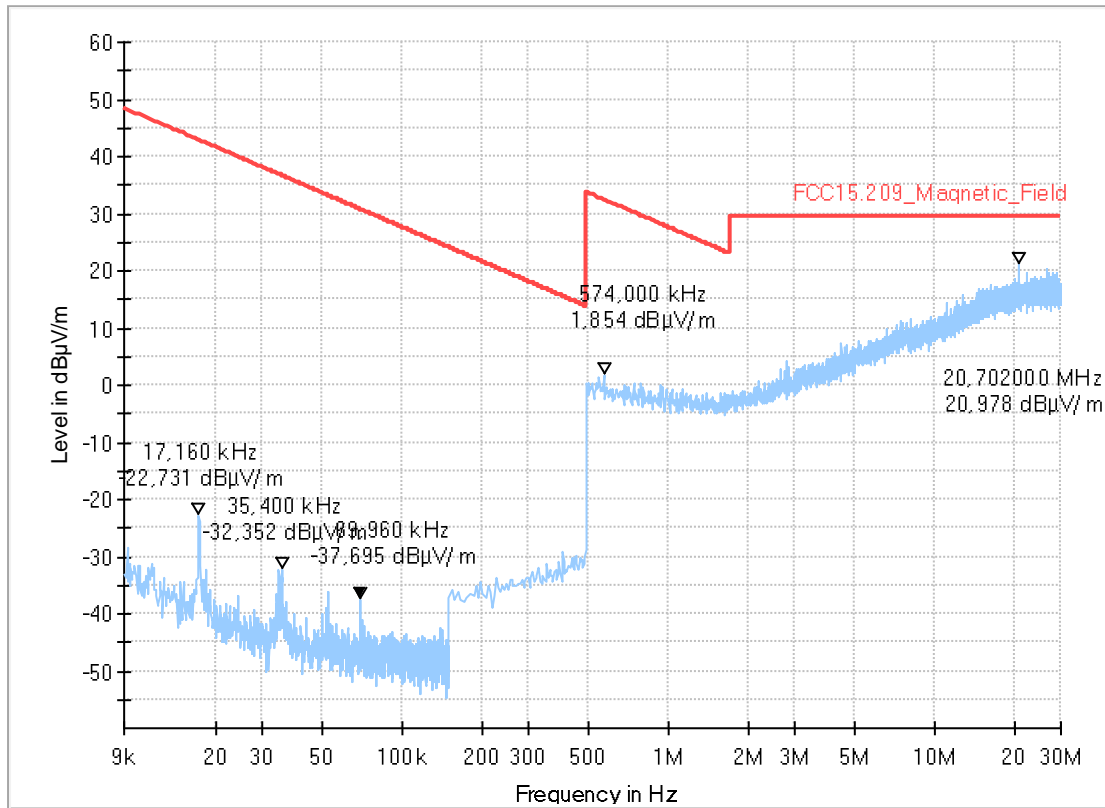
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	Tfa
Operating Mode:	n-mode   MCS0   ch38   laying   PWR15
Environmental Conditions::	Humidity : 50% rH; Temperature: 21 °C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.15b\_n-mode\_MCS0\_ch038

### Common Information

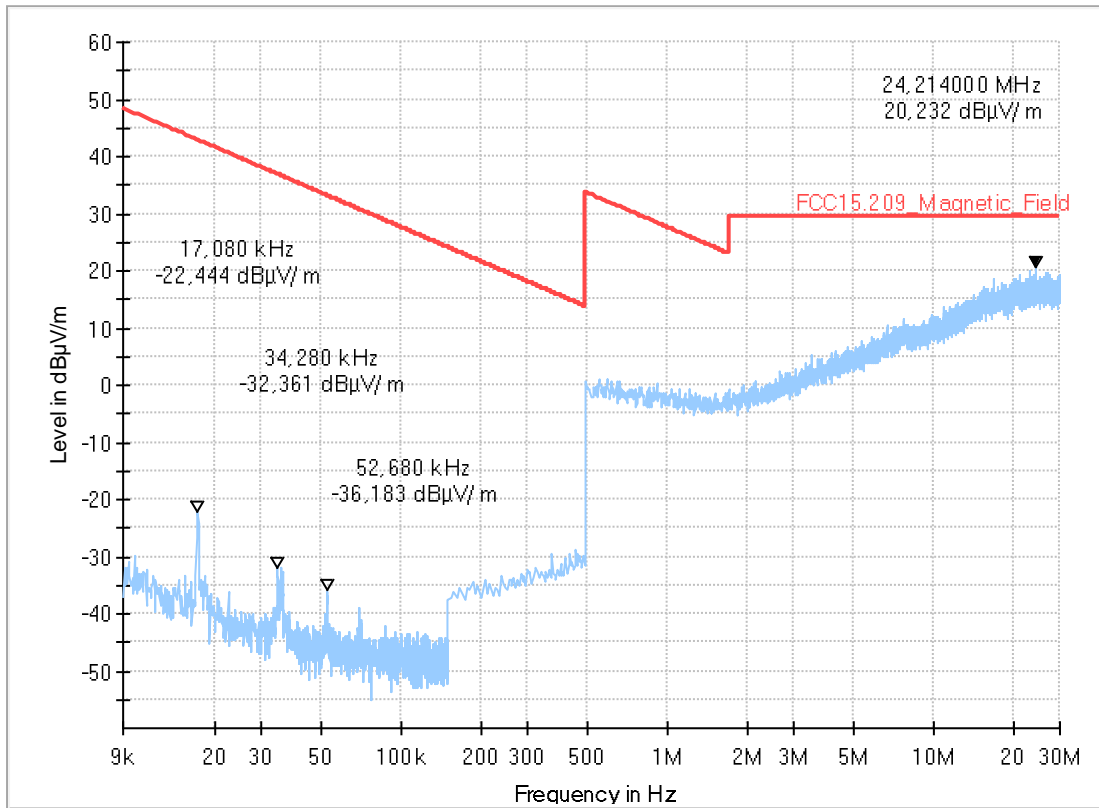
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.10
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209;
Operator:	TFra
Operating Mode:	n-mode   MCS0   ch038   standing   PWR15
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	standing
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB



Full Spectrum



## 2.16a\_ac-mode\_VHT-MCS0\_ch42

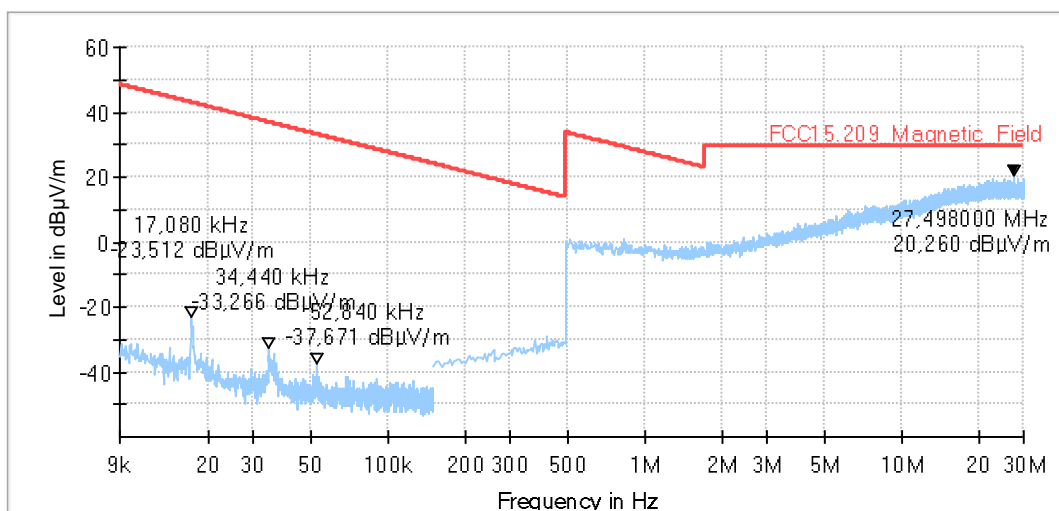
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	V10.50.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Test Standard:	FCC 15.205 § 15.209;
Operator:	PMa
Operating Mode:	WLAN   TX   ac-mode   MCS0   ch42
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C
EUT Setup:	standing

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 2.16b\_ac-mode\_VHT-MCS0\_ch42

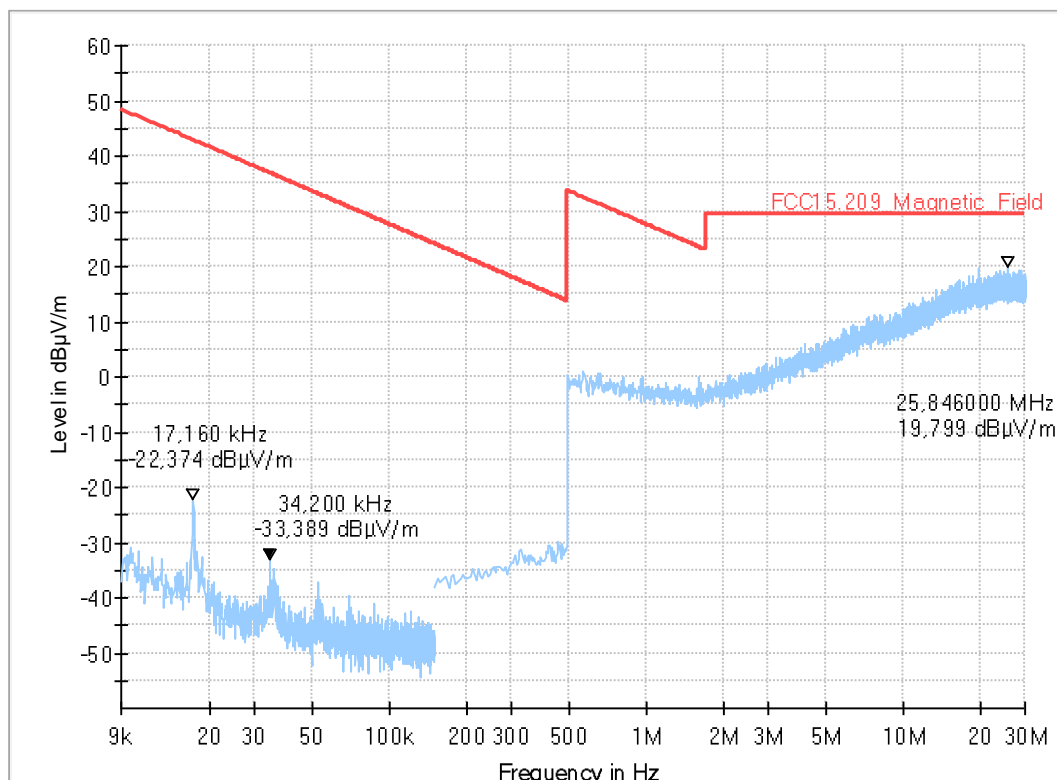
### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	V10.50.00
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Test Standard:	FCC 15.205 § 15.209;
Operator:	PMa
Operating Mode:	WLAN   TX   ac-mode   MCS0   ch42
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C
EUT Setup:	standing

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



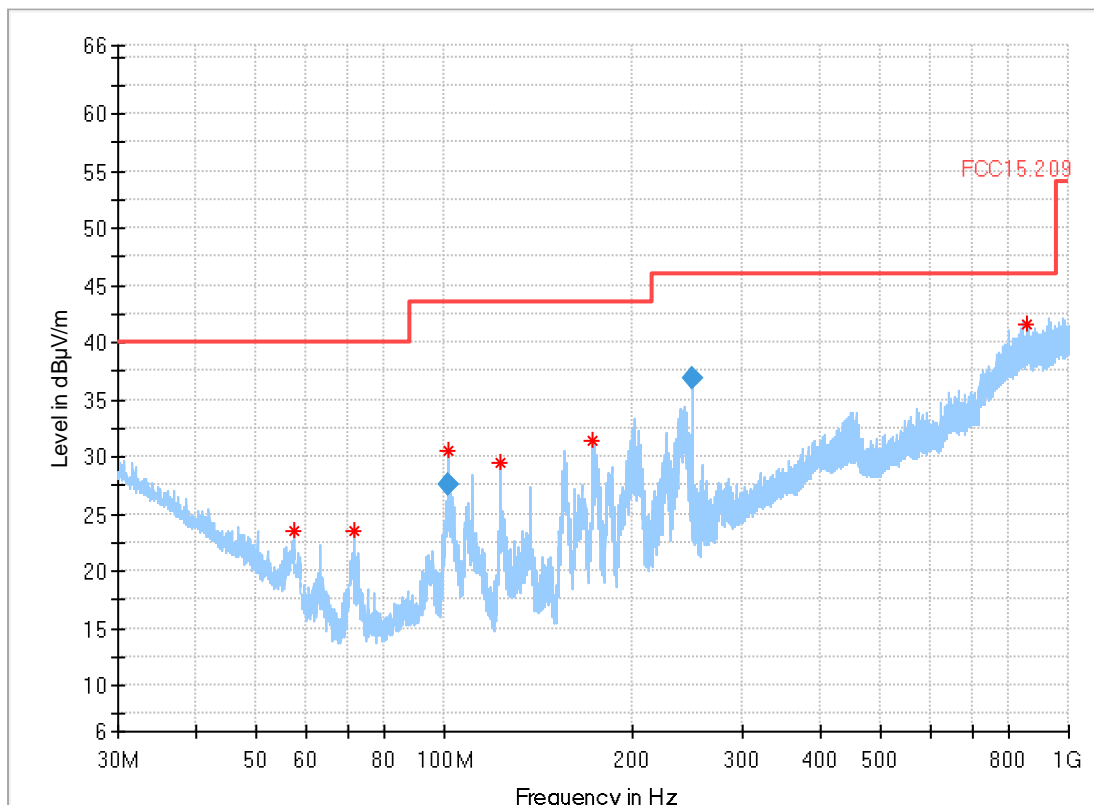
### 3.11a\_a-mode\_6MBps\_ch157

#### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

#### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB
	Full Spectrum



**Final\_Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
101.180000	27.64	43.50	15.86	120.000	362.0	H	0.0	8.1
250.000000	36.88	46.00	9.12	120.000	105.0	H	249.0	13.0

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.320000	23.46	40.00	16.54	---	---	105.0	V	270.0	10.1
71.560000	23.49	40.00	16.51	---	---	182.0	H	0.0	6.6
101.180000	30.55	43.50	12.95	---	---	362.0	H	0.0	8.1
123.080000	29.57	43.50	13.93	---	---	182.0	H	270.0	8.1
173.160000	31.42	43.50	12.08	---	---	182.0	H	270.0	10.4
250.000000	36.83	46.00	9.17	---	---	105.0	H	250.0	13.0
857.000000	41.68	46.00	4.32	---	---	105.0	H	180.0	26.4

## 3.11b\_a-mode\_6Mbps\_ch157

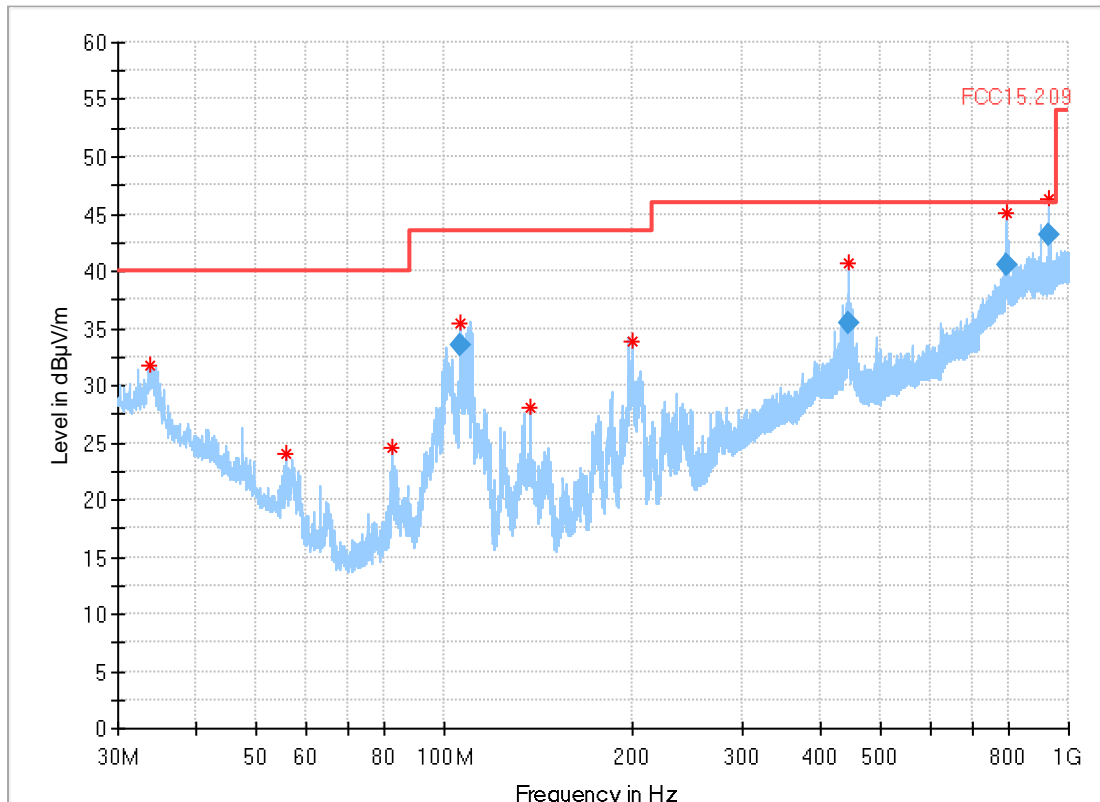
### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peaks at 794 and 926 MHz are known external disturbances and do not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
106.072000	33.44	43.50	10.06	120.000	118.0	V	124.0	8.1
445.172000	35.40	46.00	10.60	120.000	195.0	H	184.0	19.4
794.976000	40.51	46.00	5.49	120.000	189.0	H	308.0	25.2
926.736000	43.14	46.00	2.86	120.000	320.0	H	156.0	27.0

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.720000	31.76	40.00	8.24	---	---	105.0	H	270.0	19.8
55.680000	23.95	40.00	16.05	---	---	182.0	V	180.0	10.9
82.400000	24.56	40.00	15.44	---	---	182.0	H	180.0	7.4
106.072000	35.48	43.50	8.02	---	---	118.0	V	125.0	8.1
137.280000	28.07	43.50	15.43	---	---	105.0	V	180.0	9.4
199.960000	33.90	43.50	9.60	---	---	182.0	H	180.0	11.3
445.172000	40.62	46.00	5.38	---	---	195.0	H	185.0	19.4
794.976000	45.06	46.00	0.94	---	---	189.0	H	309.0	25.2
926.736000	46.24	46.00	-0.24	---	---	320.0	H	157.0	27.0

## 3.12a\_n-mode\_MCS0\_ch151

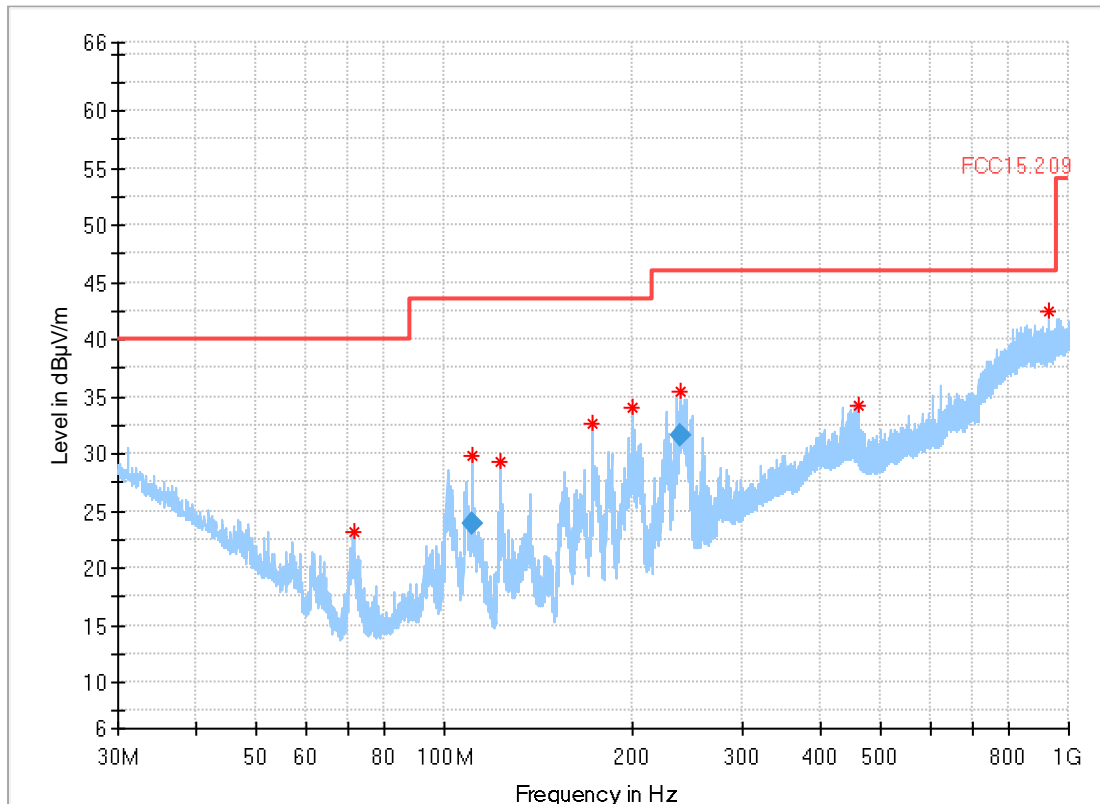
### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 928 MHz is known external disturbance and does not come from EUT.



**Final\_Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
111.100000	23.90	43.50	19.60	120.000	209.0	H	80.0	8.2
238.916000	31.59	46.00	14.41	120.000	137.0	H	6.0	13.1

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
71.480000	23.26	40.00	16.74	---	---	182.0	H	180.0	6.6
111.100000	29.88	43.50	13.62	---	---	209.0	H	81.0	8.2
123.080000	29.37	43.50	14.13	---	---	182.0	H	0.0	8.1
173.160000	32.74	43.50	10.76	---	---	182.0	H	270.0	10.4
200.000000	34.14	43.50	9.36	---	---	182.0	H	90.0	11.3
238.916000	35.54	46.00	10.46	---	---	137.0	H	7.0	13.1
459.240000	34.30	46.00	11.70	---	---	105.0	V	90.0	19.6
928.360000	42.41	46.00	3.59	---	---	105.0	V	0.0	27.0

## 3.12b\_n-mode\_MCS0\_ch151

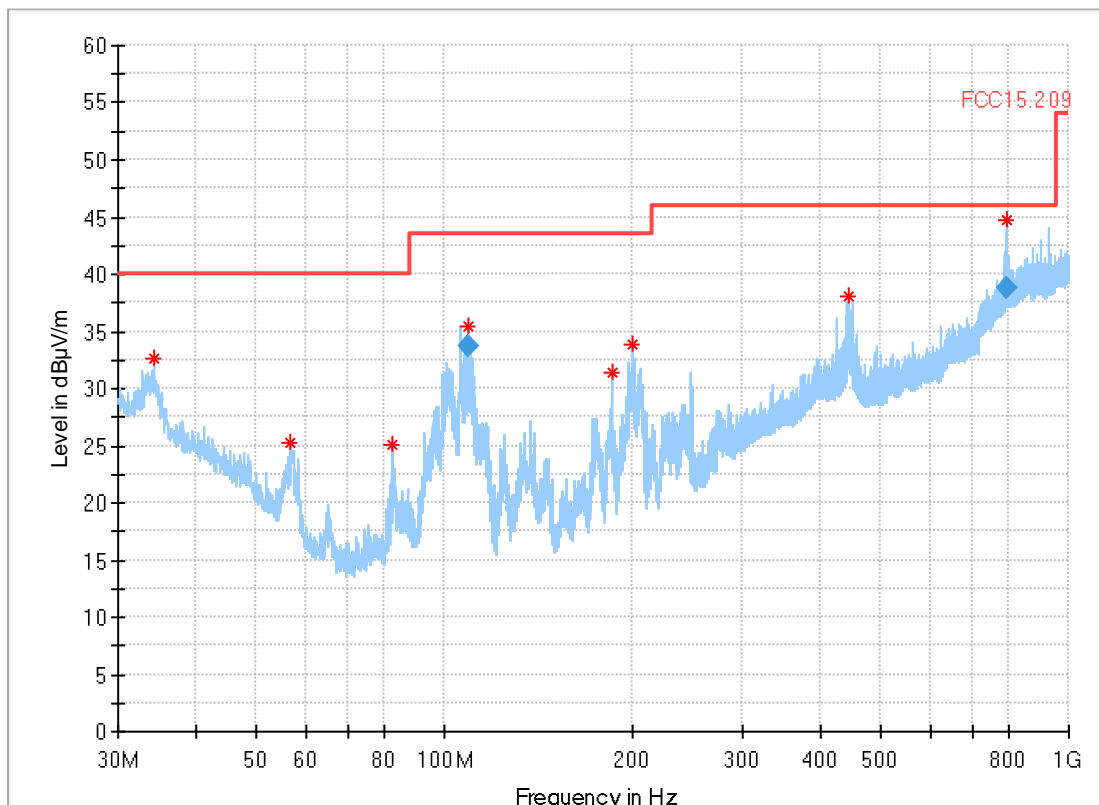
### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 794 MHz is known external disturbance and does not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
109.452000	33.67	43.50	9.83	120.000	109.0	V	267.0	8.2
794.668000	38.69	46.00	7.31	120.000	267.0	V	0.0	25.2

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.200000	32.57	40.00	7.43	---	---	182.0	H	270.0	19.5
56.600000	25.25	40.00	14.75	---	---	105.0	V	180.0	10.4
82.680000	25.04	40.00	14.96	---	---	182.0	H	180.0	7.5
109.452000	35.50	43.50	8.00	---	---	109.0	V	268.0	8.2
185.120000	31.35	43.50	12.15	---	---	105.0	H	180.0	11.1
199.960000	33.92	43.50	9.58	---	---	182.0	H	180.0	11.3
445.240000	38.01	46.00	7.99	---	---	182.0	H	180.0	19.4
794.668000	44.81	46.00	1.19	---	---	267.0	V	0.0	25.2

## 3.13a\_ac-mode\_VHT-MCS0\_ch155

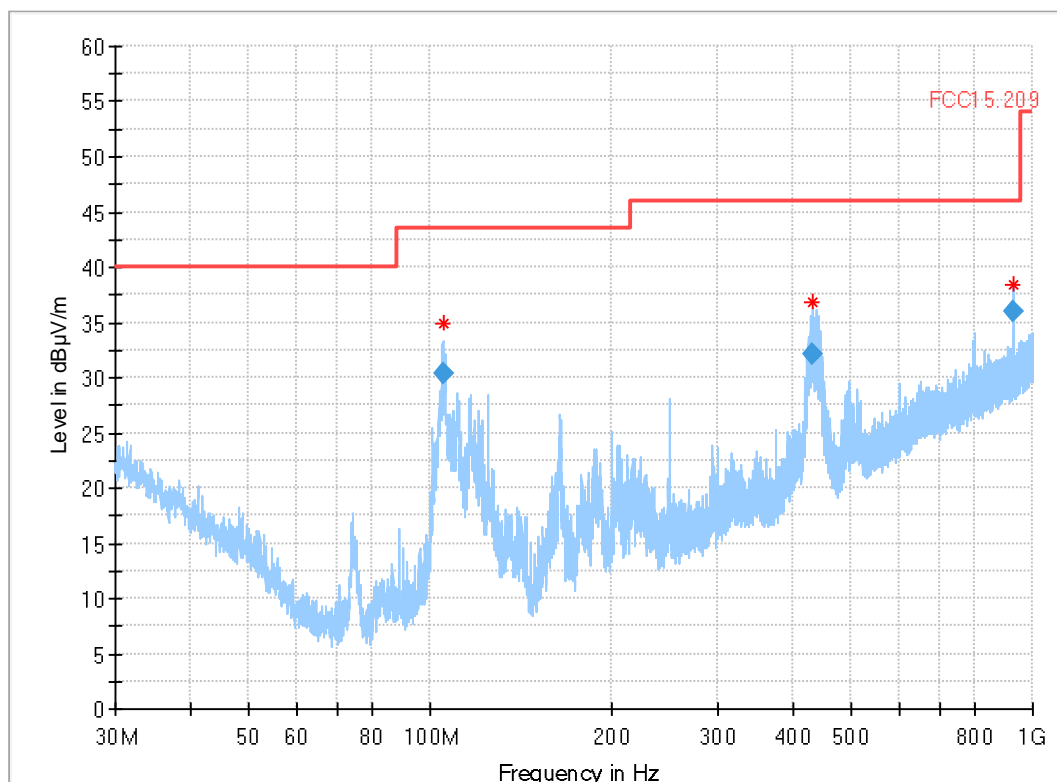
### Common Information

Test Description:	Electric Fieldstrength Measurement
Test Spec.:	FCC15.209
Antenna:	receiving antenna is directed to all sides, h=1.55m height
Operating Mode:	ac-mode   HT80   VHT-MCS0   ch155  laying   PWR15
Environmental Conditions.:	Humidity : 46% rH; Temperature: 20 °C
Operator:	RIs

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 928 MHz is known external disturbance and does not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margi n	Meas. Time (ms)	Bandwidt h	Heigh t	Pol	Azimut h	Corr. (dB/m)
104.878000	30.36	43.50	13.14	1000.0	120.000	247.0	H	145.0	8.1
432.454000	32.06	46.00	13.94	1000.0	120.000	205.0	H	110.0	19.3
928.442000	35.88	46.00	10.12	1000.0	120.000	137.0	H	66.0	27.0

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

Frequency (MHz)	Comment
104.878000	20:30:26 - 13.05.2020
432.454000	20:25:20 - 13.05.2020
928.442000	20:35:46 - 13.05.2020

## 3.13b\_ac-mode\_VHT-MCS0\_ch155

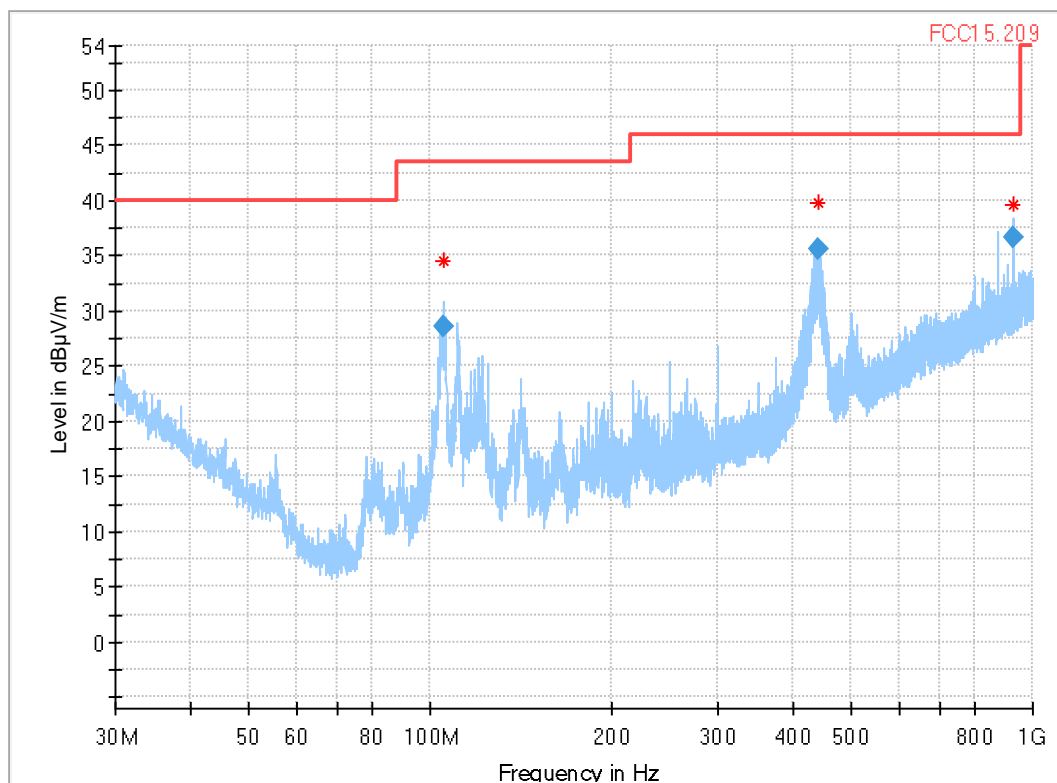
### Common Information

Test Description:	Electric Fieldstrength Measurement
Test Spec.:	FCC15.209
Antenna:	receiving antenna is directed to all sides, h=1.55m height
Operating Mode:	ac-mode   HT80   MCS0   ch155   standing   PWR15
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C
Operator:	RIs

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 928 MHz is known external disturbance and does not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
105.408000	28.58	43.50	14.92	1000.0	120.000	109.0	V	278.0	8.1
442.138000	35.62	46.00	10.38	1000.0	120.000	105.0	V	132.0	19.4
928.450000	36.55	46.00	9.45	1000.0	120.000	113.0	H	337.0	27.0

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

Frequency (MHz)	Comment
105.408000	20:59:21 - 13.05.2020
442.138000	21:04:22 - 13.05.2020
928.450000	20:54:14 - 13.05.2020

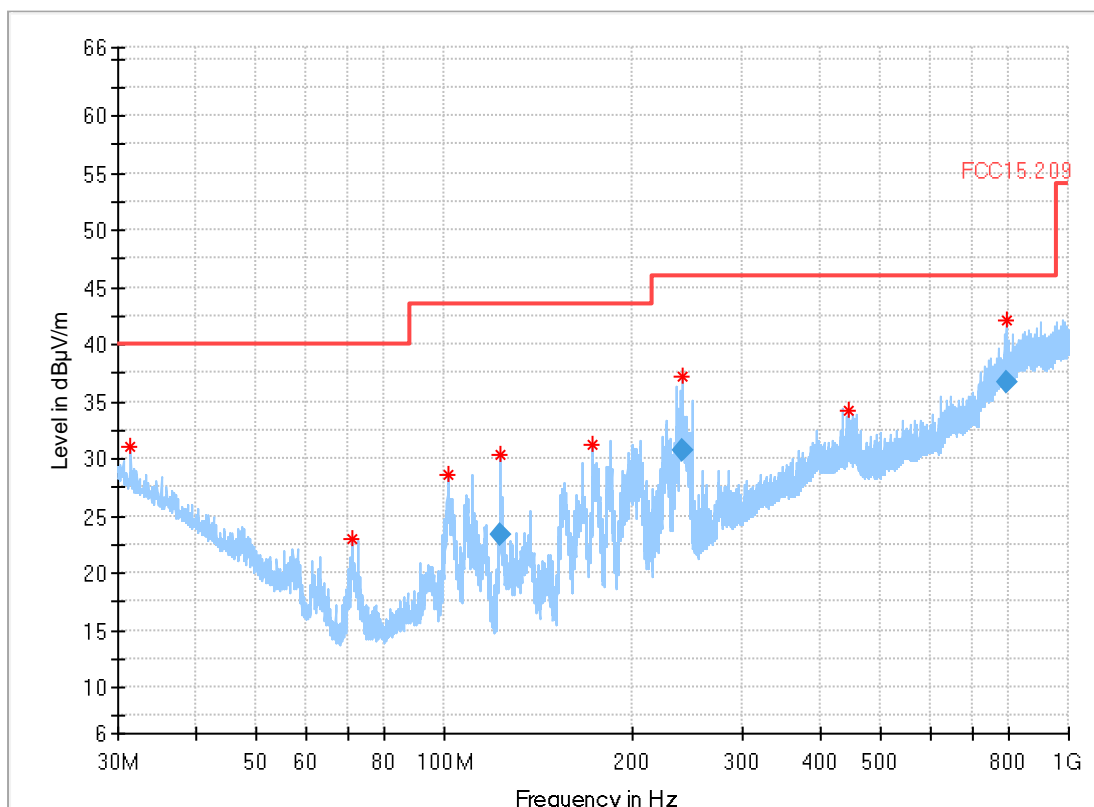
### 3.14a\_a-mode\_6MBps\_ch036

#### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

#### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB
	Full Spectrum



**Remark:** The peak at 794 MHz is known external disturbance and does not come from EUT.



**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
123.088000	23.39	43.50	20.11	120.000	178.0	H	0.0	8.1
240.096000	30.73	46.00	15.27	120.000	186.0	H	335.0	13.1
794.312000	36.76	46.00	9.25	120.000	353.0	H	60.0	25.2

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.440000	31.10	40.00	8.90	---	---	182.0	H	270.0	20.9
71.000000	23.01	40.00	16.99	---	---	182.0	H	180.0	6.6
101.360000	28.68	43.50	14.82	---	---	182.0	H	0.0	8.1
123.088000	30.34	43.50	13.16	---	---	178.0	H	1.0	8.1
173.160000	31.22	43.50	12.28	---	---	182.0	H	270.0	10.4
240.096000	37.24	46.00	8.76	---	---	186.0	H	336.0	13.1
445.240000	34.27	46.00	11.73	---	---	105.0	V	180.0	19.4
794.312000	42.17	46.00	3.83	---	---	353.0	H	61.0	25.2

### 3.14b\_a-mode\_6MBps\_ch036

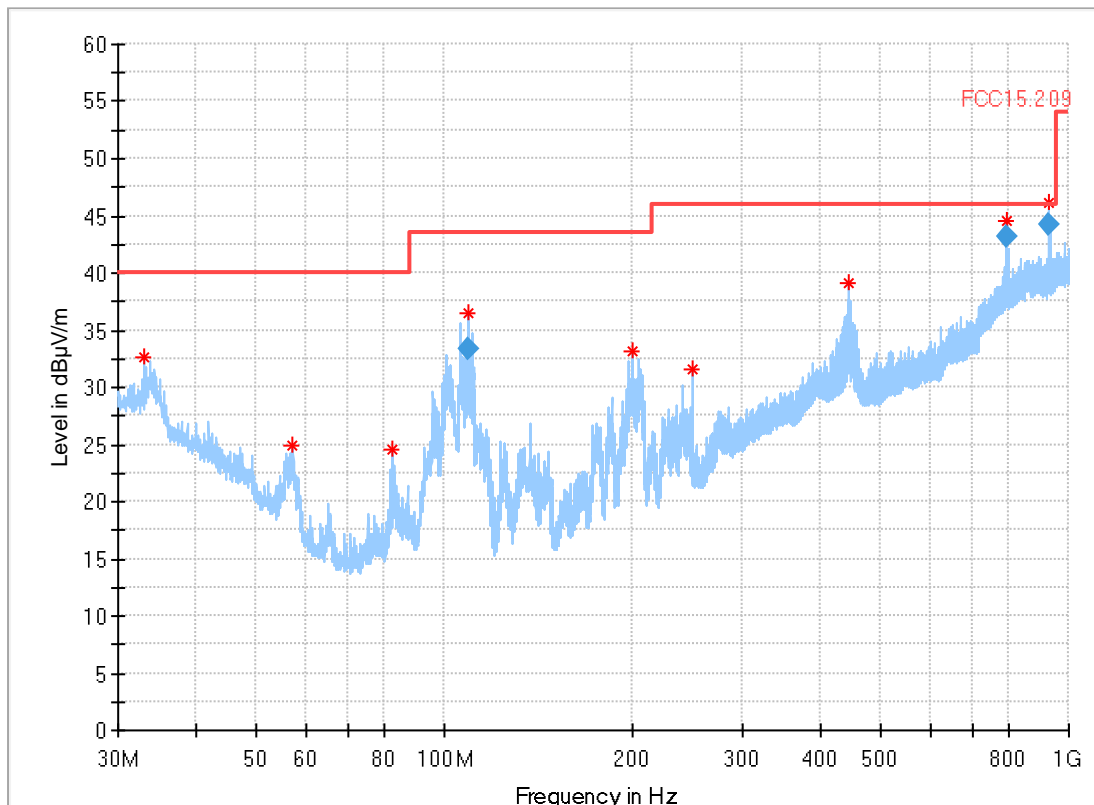
#### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

#### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 795 and 928 MHz are known external disturbances and do not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
109.336000	33.31	43.50	10.19	120.000	105.0	V	231.0	8.2
795.048000	43.16	46.00	2.84	120.000	327.0	V	55.0	25.2
928.336000	44.18	46.00	1.82	120.000	360.0	V	116.0	27.0

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.000000	32.62	40.00	7.38	---	---	105.0	H	270.0	20.2
57.120000	24.87	40.00	15.13	---	---	105.0	V	180.0	10.2
82.360000	24.61	40.00	15.39	---	---	182.0	H	180.0	7.4
109.336000	36.53	43.50	6.97	---	---	105.0	V	232.0	8.2
200.000000	33.24	43.50	10.26	---	---	182.0	H	180.0	11.3
250.000000	31.51	46.00	14.49	---	---	105.0	H	180.0	13.0
445.240000	39.12	46.00	6.88	---	---	182.0	H	180.0	19.4
795.048000	44.51	46.00	1.49	---	---	327.0	V	56.0	25.2
928.336000	46.10	46.00	-0.10	---	---	360.0	V	117.0	27.0

## 3.15a\_n-mode\_MCS0\_ch038

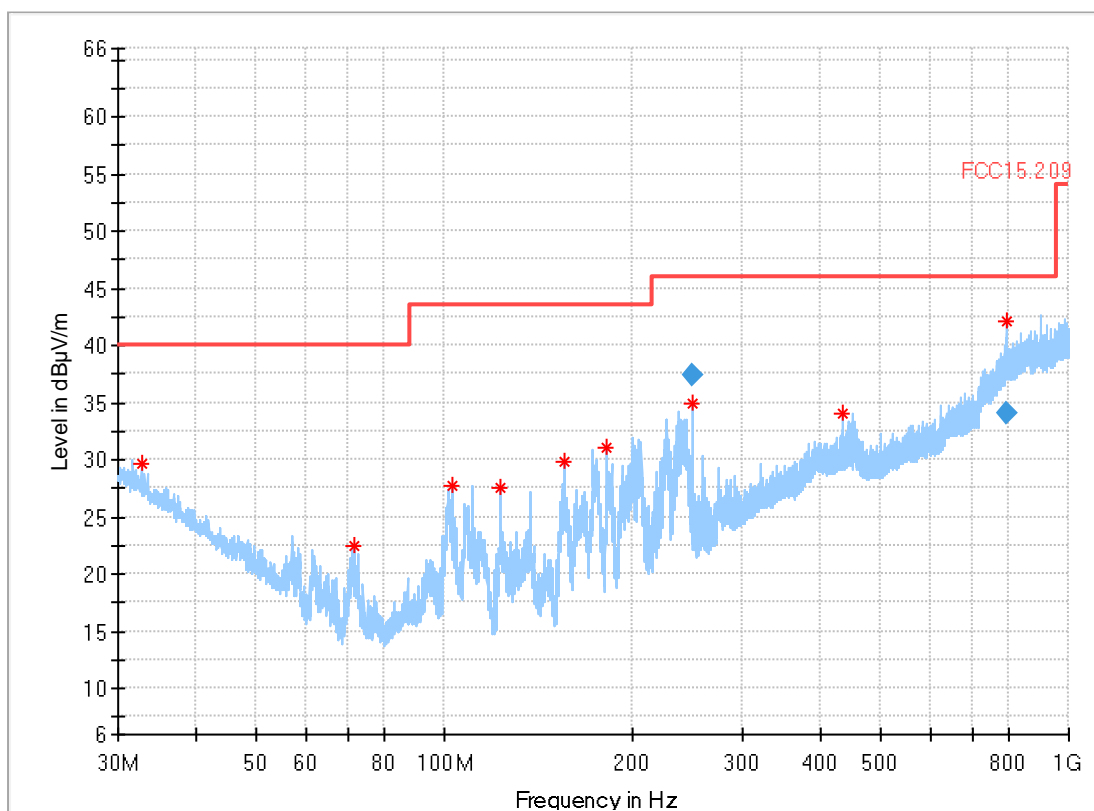
### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 793 MHz is known external disturbance and does not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
249.996000	37.43	46.00	8.57	120.000	105.0	H	249.0	13.0
793.420000	34.08	46.00	11.92	120.000	250.0	H	238.0	25.2

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.680000	29.60	40.00	10.40	---	---	105.0	V	90.0	20.3
71.440000	22.57	40.00	17.43	---	---	182.0	H	180.0	6.6
102.760000	27.70	43.50	15.80	---	---	182.0	H	0.0	8.1
123.080000	27.63	43.50	15.87	---	---	182.0	H	0.0	8.1
155.840000	29.82	43.50	13.68	---	---	182.0	H	90.0	8.9
181.840000	31.02	43.50	12.48	---	---	182.0	H	270.0	10.8
249.996000	35.02	46.00	10.98	---	---	105.0	H	250.0	13.0
433.280000	34.02	46.00	11.98	---	---	182.0	H	180.0	19.4
793.420000	42.13	46.00	3.87	---	---	250.0	H	239.0	25.2

## 3.15b\_n-mode\_MCS0\_ch038

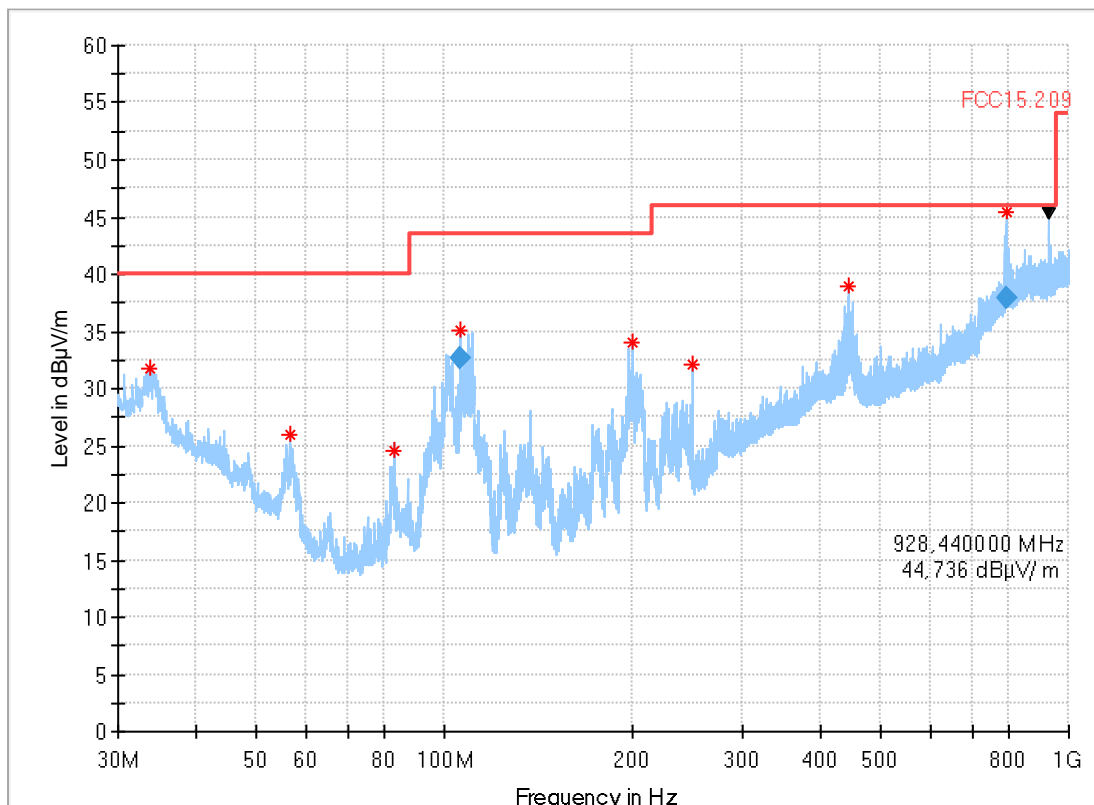
### Common Information

Test description:	Electric Field Strength Measurement
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Test Software:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test Standard.:	FCC 15.209;
Operator:	mkh
Operating Mode:	WLAN_5GHz
Power during tests:	13,9V DC
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
EUT Setup:	
Verdict:	Passed

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 795 and 928 MHz are known external disturbances and do not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
106.144000	32.57	43.50	10.93	120.000	109.0	V	182.0	8.1
795.028000	37.88	46.00	8.12	120.000	235.0	V	102.0	25.2

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.680000	31.78	40.00	8.22	---	---	182.0	H	270.0	19.8
56.400000	26.01	40.00	13.99	---	---	105.0	V	270.0	10.5
82.880000	24.49	40.00	15.51	---	---	182.0	H	180.0	7.5
106.144000	35.11	43.50	8.39	---	---	109.0	V	183.0	8.1
199.960000	34.04	43.50	9.46	---	---	182.0	H	180.0	11.3
250.000000	32.12	46.00	13.88	---	---	105.0	H	180.0	13.0
445.240000	38.96	46.00	7.04	---	---	182.0	H	180.0	19.4
795.028000	45.39	46.00	0.61	---	---	235.0	V	103.0	25.2

## 3.16a\_ac-mode\_VHT-MCS0\_ch42

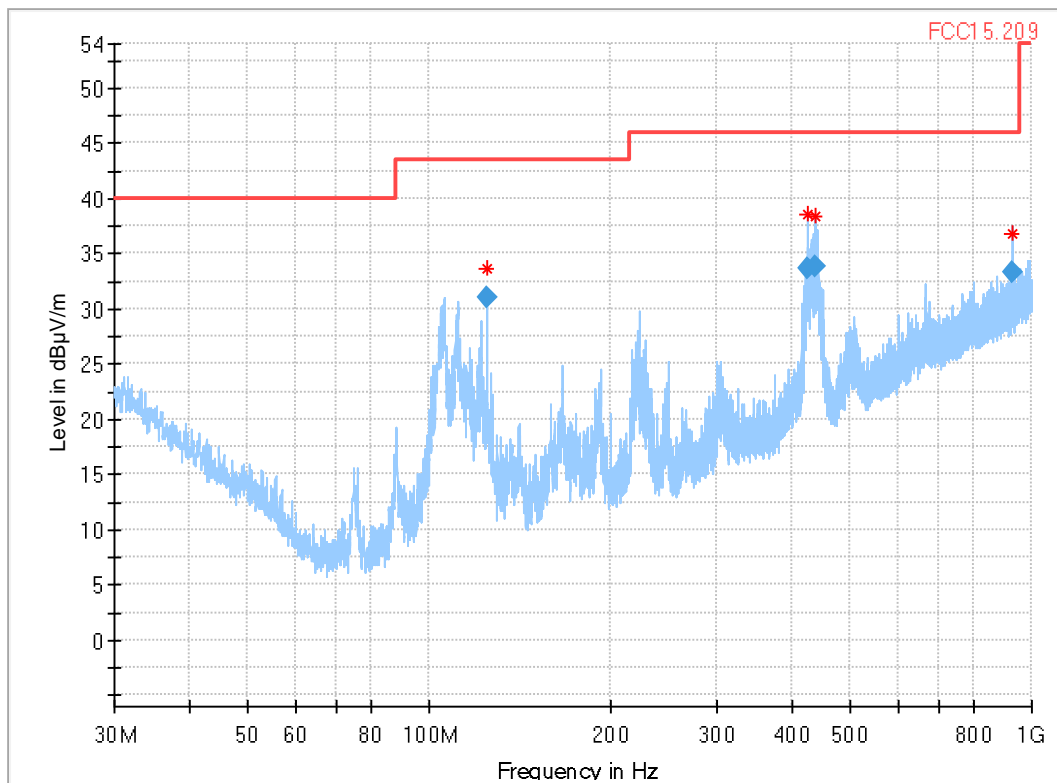
### Common Information

Test Description:	Electric Fieldstrength Measurement
Test Spec.:	FCC15.209
Antenna:	receiving antenna is directed to all sides, h=1.55m height
Operating Mode:	ac-mode   VHT-MCS0   ch42   laying   PWR10
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C
Operator:	RIs

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 928 MHz is known external disturbance and does not come from EUT.



**Final\_Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth (h)	Corr. (dB/m)
124.990000	30.98	43.50	12.52	1000.0	120.000	272.0	H	228.0	8.2
424.448000	33.73	46.00	12.27	1000.0	120.000	186.0	H	96.0	19.1
438.156000	33.90	46.00	12.10	1000.0	120.000	178.0	H	99.0	19.4
928.378000	33.26	46.00	12.74	1000.0	120.000	368.0	H	240.0	27.0

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

Frequency (MHz)	Comment
124.990000	22:17:58 - 13.05.2020
424.448000	22:03:27 - 13.05.2020
438.156000	22:08:25 - 13.05.2020
928.378000	22:12:44 - 13.05.2020

## 3.16b\_ac-mode\_VHT-MCS0\_ch42

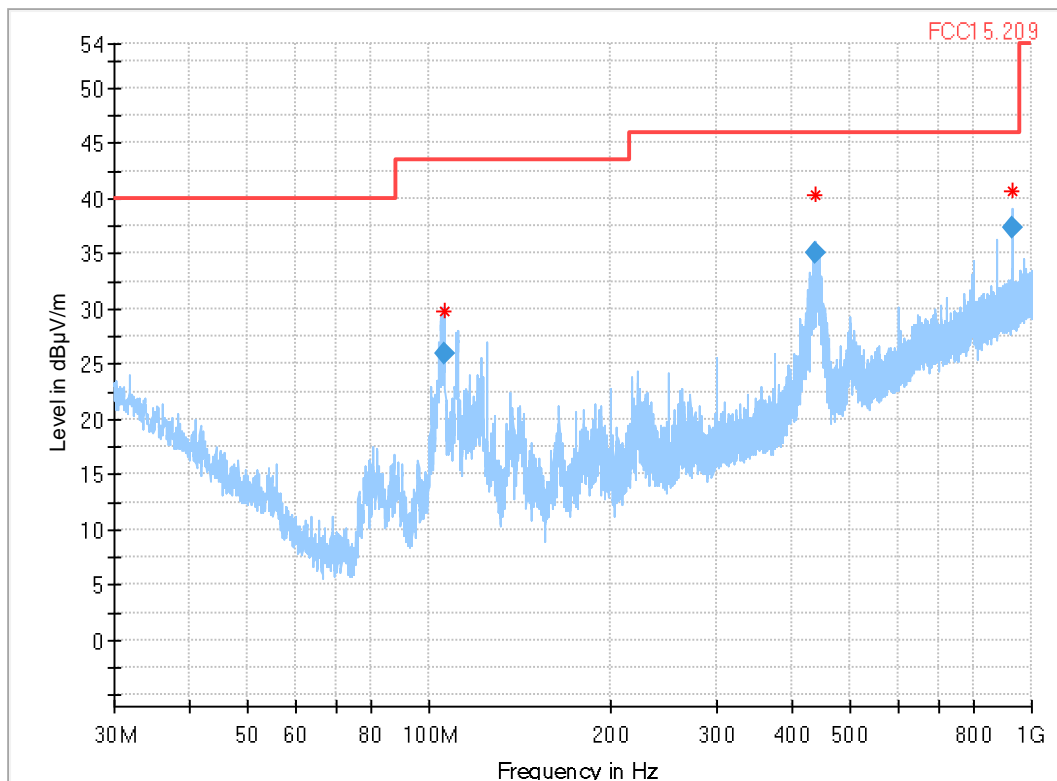
### Common Information

Test Description:	Electric Fieldstrength Measurement
Test Spec.:	FCC15.209
Antenna:	receiving antenna is directed to all sides, h=1.55m height
Operating Mode:	ac-mode   VHT-MCS0   ch42   standing   PWR10
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C
Operator:	RI

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Remark:** The peak at 794 and 928 MHz is known external disturbance and does not come from EUT.

**Final\_Result**

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margi n	Meas. Time (ms)	Bandwidt h	Heigh t	Pol	Azimut h	Corr. (dB/m)
106.206000	25.95	43.50	17.55	1000.0	120.000	119.0	V	292.0	8.1
438.348000	35.03	46.00	10.97	1000.0	120.000	143.0	H	165.0	19.4
928.336000	37.30	46.00	8.70	1000.0	120.000	144.0	V	87.0	27.0

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

Frequency (MHz)	Comment
106.206000	21:30:50 - 13.05.2020
438.348000	21:25:39 - 13.05.2020
928.336000	21:36:16 - 13.05.2020

## 4.11a\_a-mode\_6Mbps\_ch157

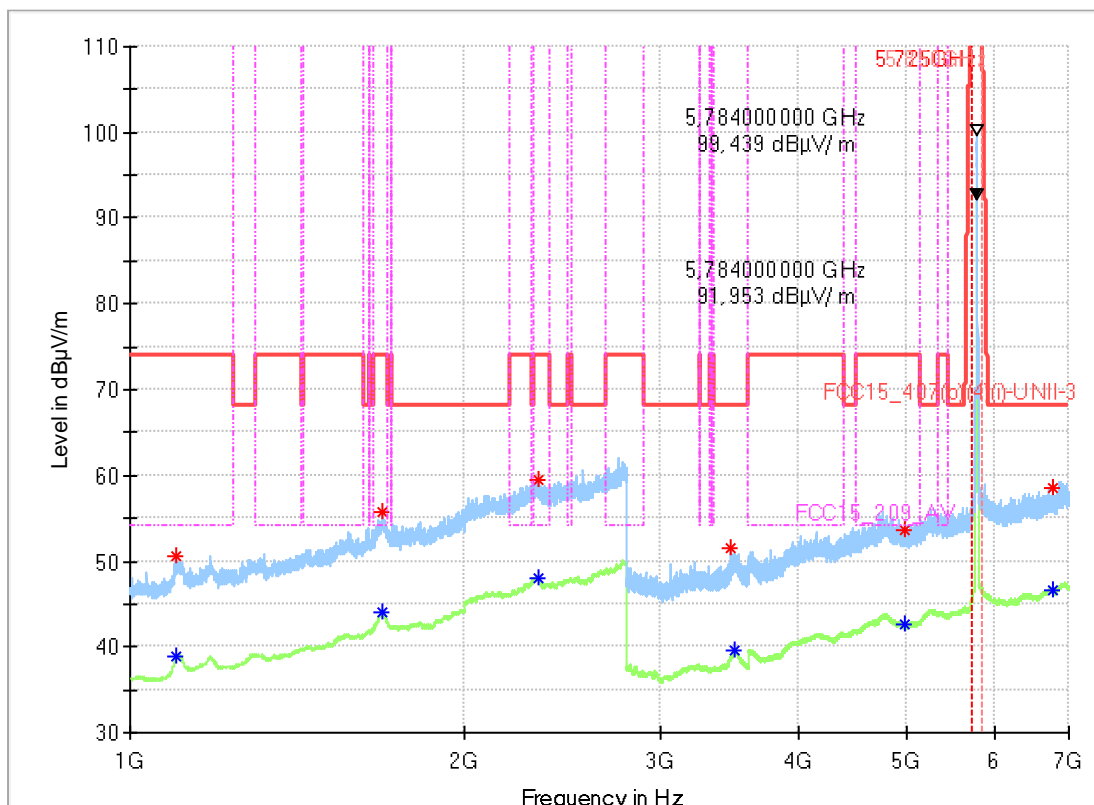
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6Mbps   ch157   laying   PWR15
Operator:	TFra
Comment:	Internal antenna
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
1098.000000	50.55	---	74.00	23.45	---	---	155.0	H	350.0	0.0	35
1102.400000	---	38.94	54.00	15.06	---	---	155.0	H	45.0	0.0	35
1684.400000	55.70	---	74.00	18.30	---	---	155.0	V	225.0	0.0	40
1686.800000	---	44.07	54.00	9.93	---	---	155.0	V	350.0	0.0	40
2331.200000	---	48.12	54.00	5.88	---	---	155.0	H	90.0	0.0	43
2332.800000	59.58	---	74.00	14.42	---	---	155.0	H	270.0	0.0	43
3478.400000	51.50	---	68.20	16.70	---	---	155.0	V	0.0	0.0	9
3494.800000	---	39.51	150.00	110.49	---	---	155.0	V	270.0	0.0	10
4975.200000	53.62	---	74.00	20.38	---	---	155.0	H	45.0	0.0	11
4979.200000	---	42.62	54.00	11.38	---	---	155.0	V	350.0	0.0	11
6769.200000	58.56	---	68.20	9.64	---	---	155.0	H	135.0	0.0	16
6779.600000	---	46.62	150.00	103.38	---	---	155.0	H	180.0	0.0	16

## 4.11b\_a-mode\_6MBps\_ch157

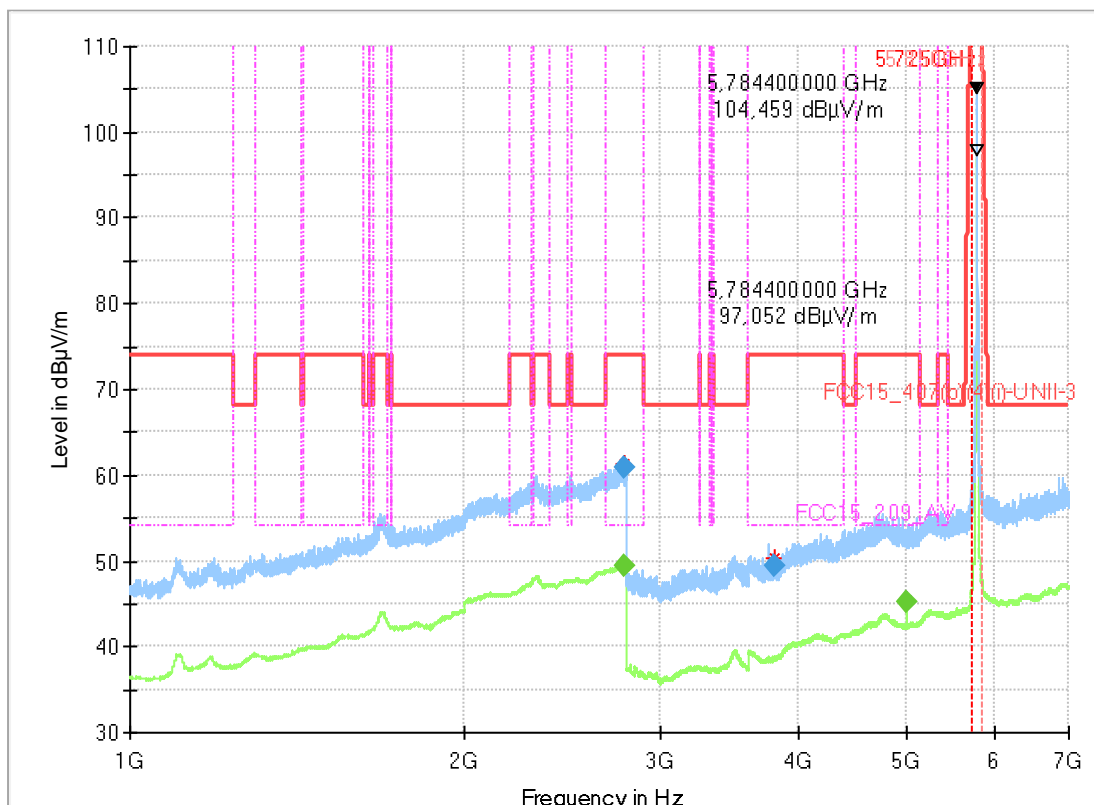
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch157   standing   PWR15
Operator:	TFra
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	RMS (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
2782.700000	60.82	---	74.00	13.18	100.0	1000.000	155.0	H	308.0	0.0	45
2784.250000	---	49.39	54.00	4.61	100.0	1000.000	155.0	V	132.0	0.0	45
3808.250000	49.32	---	74.00	24.68	100.0	1000.000	155.0	V	46.0	0.0	8
4999.350000	---	45.31	54.00	8.69	100.0	1000.000	155.0	H	17.0	0.0	11

## 4.11c\_a-mode\_6MBps\_ch157

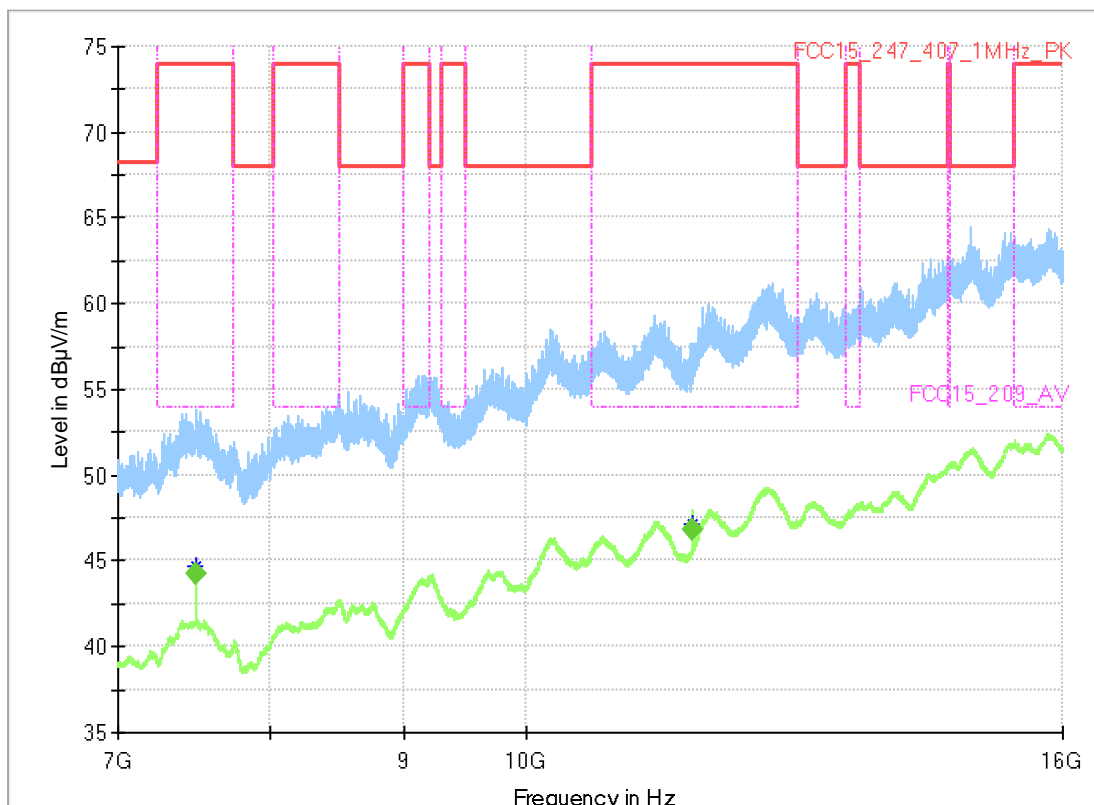
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch157   laying   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum







**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.23	54.00	9.77	100.0	1000.000	155.0	V	231.0	19
11569.800000	---	46.78	54.00	7.22	100.0	1000.000	155.0	V	197.0	25

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
11569.800000	-18	0

## 4.11d\_a-mode\_6MBps\_ch157

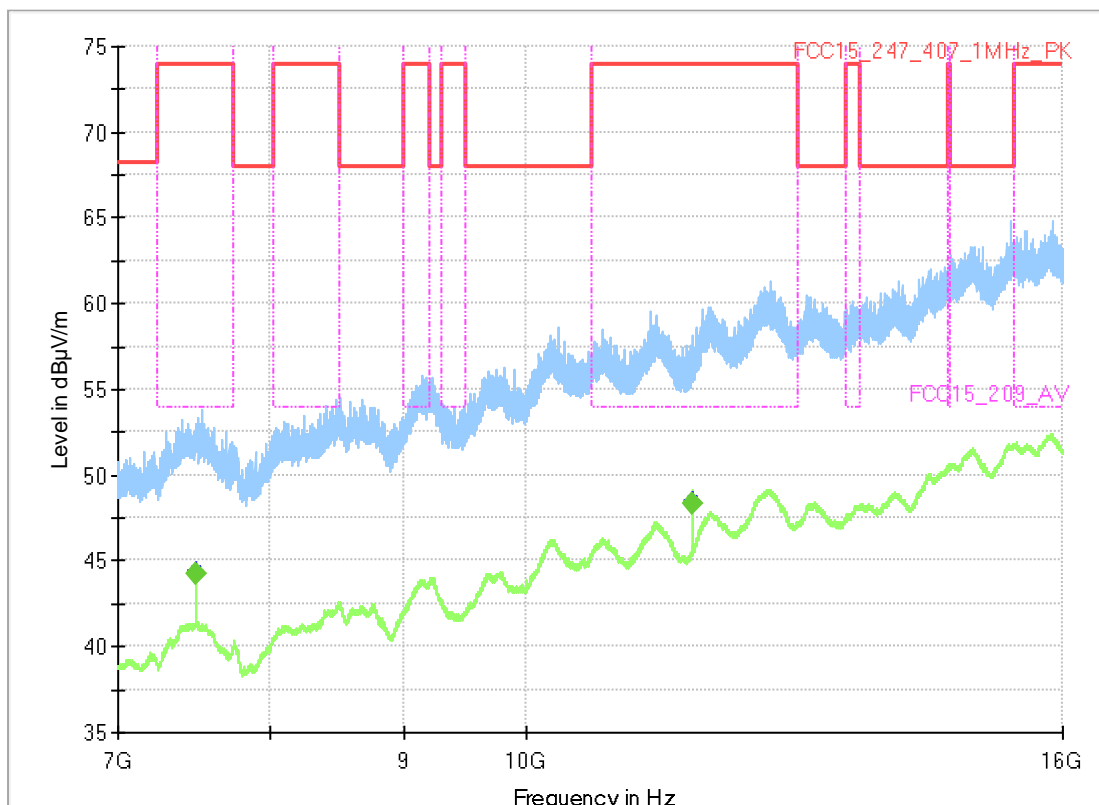
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch157   standing   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



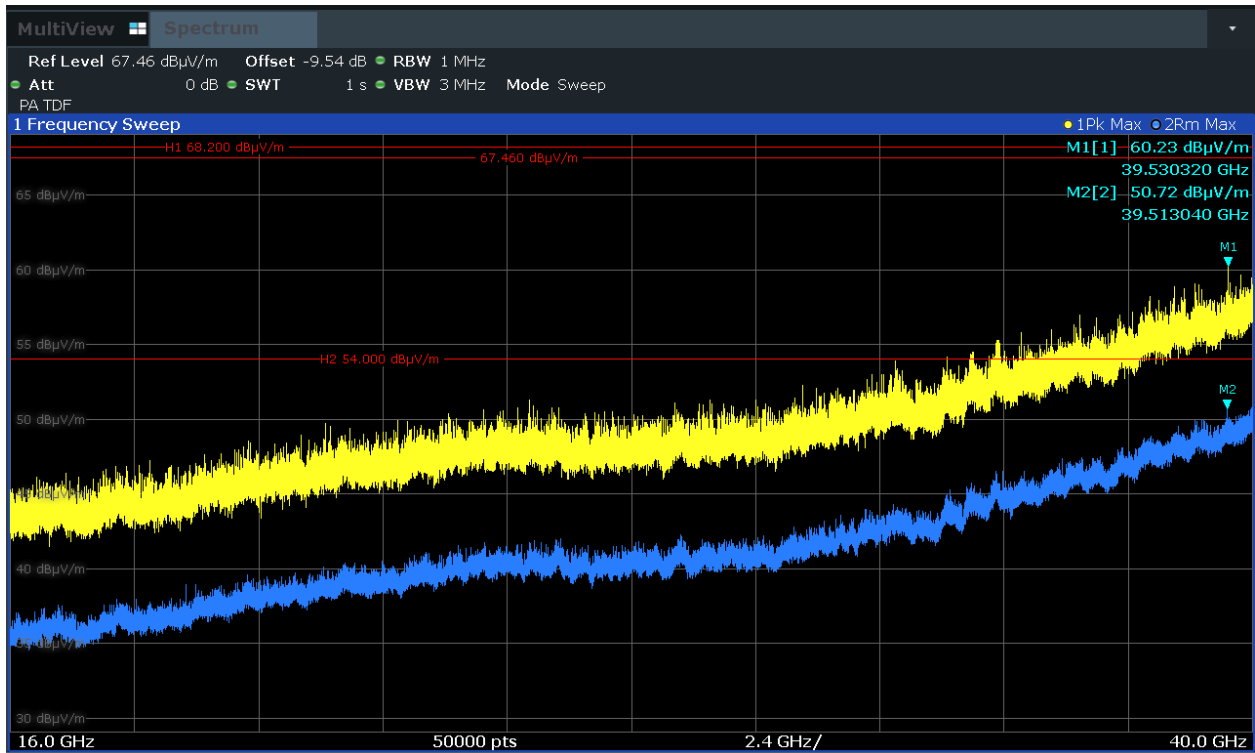
**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.23	54.00	9.77	100.0	1000.000	155.0	H	5.0	19
11569.800000	---	48.33	54.00	5.67	100.0	1000.000	155.0	V	344.0	25

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
11569.800000	-18	0

# 4.11e\_a-mode\_6Mbps\_ch157



## 4.12a\_n-mode\_MCS0\_ch151

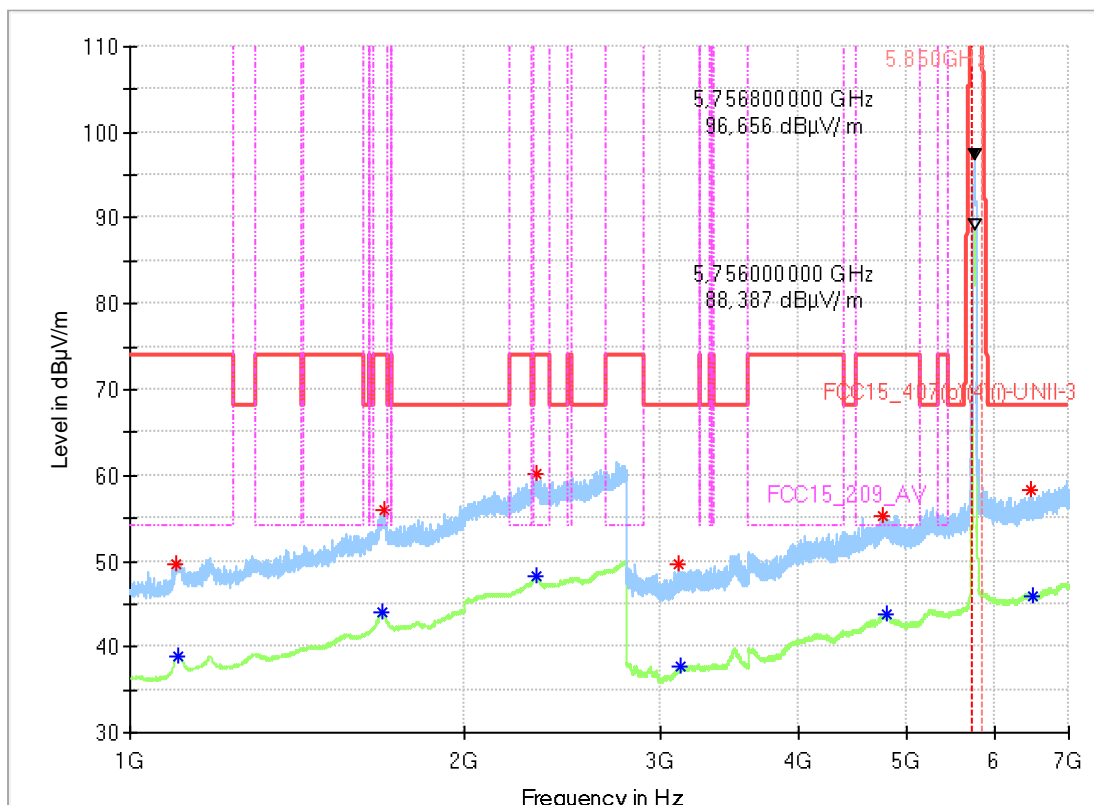
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	n-mode   HT40   MCS0   ch151  laying   PWR15
Operator:	TFra
Comment:	Internal antenna
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
1101.200000	49.74	---	74.00	24.26	---	---	155.0	V	270.0	0.0	35
1105.200000	---	38.96	54.00	15.04	---	---	155.0	H	45.0	0.0	35
1687.200000	---	44.15	54.00	9.85	---	---	155.0	H	0.0	0.0	40
1693.600000	55.90	---	74.00	18.10	---	---	155.0	V	45.0	0.0	40
2319.200000	---	48.21	54.00	5.79	---	---	155.0	V	90.0	0.0	43
2320.800000	60.20	---	74.00	13.80	---	---	155.0	H	0.0	0.0	43
3117.200000	49.67	---	68.20	18.53	---	---	155.0	H	350.0	0.0	7
3136.000000	---	37.64	150.00	112.36	---	---	155.0	V	90.0	0.0	7
4765.600000	55.15	---	74.00	18.85	---	---	155.0	V	270.0	0.0	12
4794.800000	---	43.84	54.00	10.16	---	---	155.0	H	270.0	0.0	12
6465.200000	58.35	---	68.20	9.85	---	---	155.0	V	225.0	0.0	15
6498.000000	---	45.91	150.00	104.09	---	---	155.0	H	180.0	0.0	15

## 4.12c\_n-mode\_MCS0\_ch151

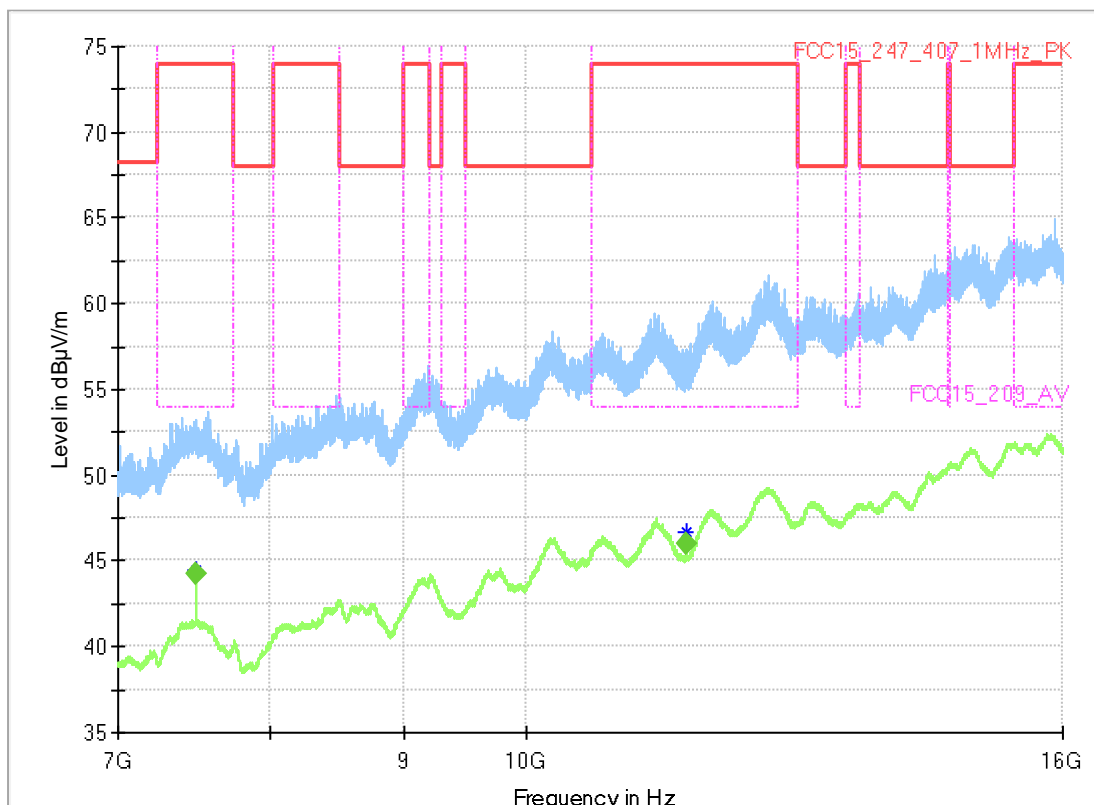
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	n-mode   HT40   MCS0   ch151  laying   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.26	54.00	9.74	100.0	1000.000	155.0	V	231.0	19
11509.800000	---	46.03	54.00	7.97	100.0	1000.000	155.0	V	226.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
11509.800000	-18	0



## 4.12d\_n-mode\_MCS0\_ch151

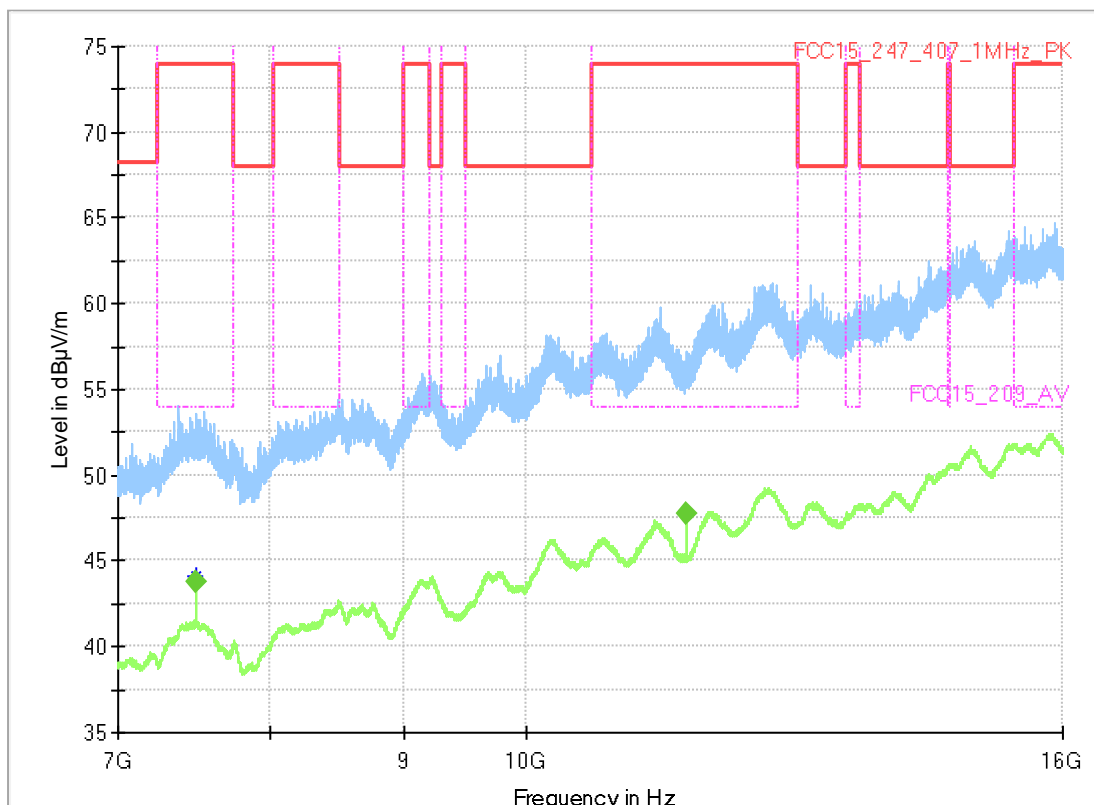
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	n-mode   HT40   MCS0   ch0151   standing   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



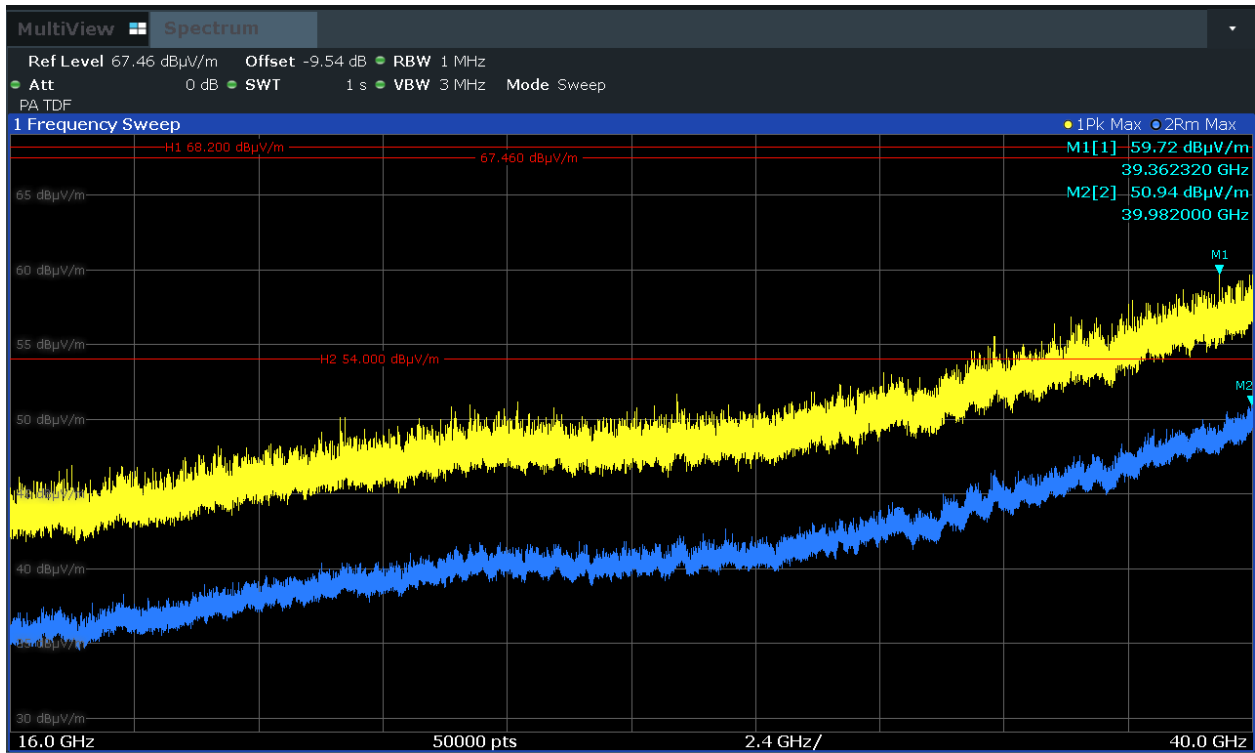
**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	43.77	54.00	10.23	100.0	1000.000	155.0	H	30.0	19
11509.800000	---	47.80	54.00	6.20	100.0	1000.000	155.0	H	42.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
11509.800000	-18	0

# 4.12a\_n-mode\_MCS0\_ch151



## 4.13a\_ac-mode\_MCS0\_ch155

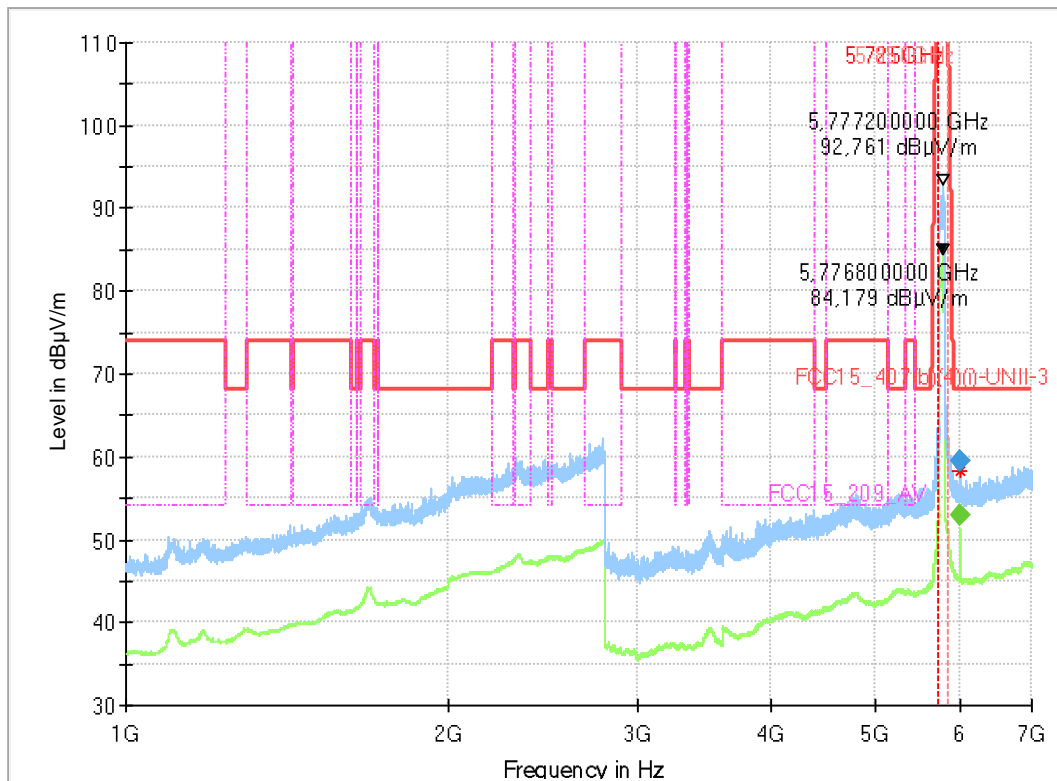
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Operating Mode:	ac-mode   HT80   VHT-MCS0   ch155  laying   PWR15
Operator:	RIS
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20_C01
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
6000.000000	---	52.93	150.00	97.07	100.0	1000.000	155.0	V	113.0	0.0
6000.000000	59.45	---	68.20	8.75	100.0	1000.000	155.0	V	177.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
6000.000000	15	14:17:01 - 19.06.2020
6000.000000	15	14:15:05 - 19.06.2020

## 4.13b\_ac-mode\_MCS0\_ch155

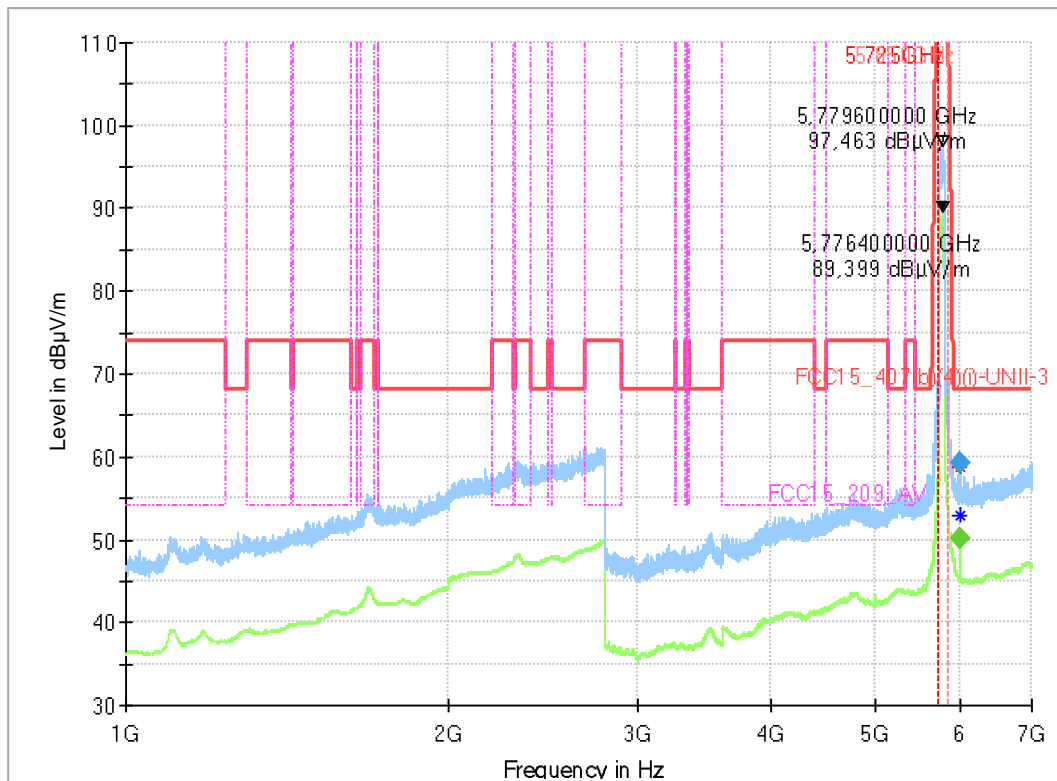
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Operating Mode:	ac-mode   HT80   MCS0   ch155   standing   PWR15
Operator:	RIS
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20_C01
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
6000.000000	---	50.09	150.00	99.91	100.0	1000.000	155.0	V	115.0	0.0
6000.000000	59.26	---	68.20	8.94	100.0	1000.000	155.0	H	46.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
6000.000000	15	13:15:36 - 19.06.2020
6000.000000	15	13:13:28 - 19.06.2020

## 4.13c\_ac-mode\_MCS0\_ch155

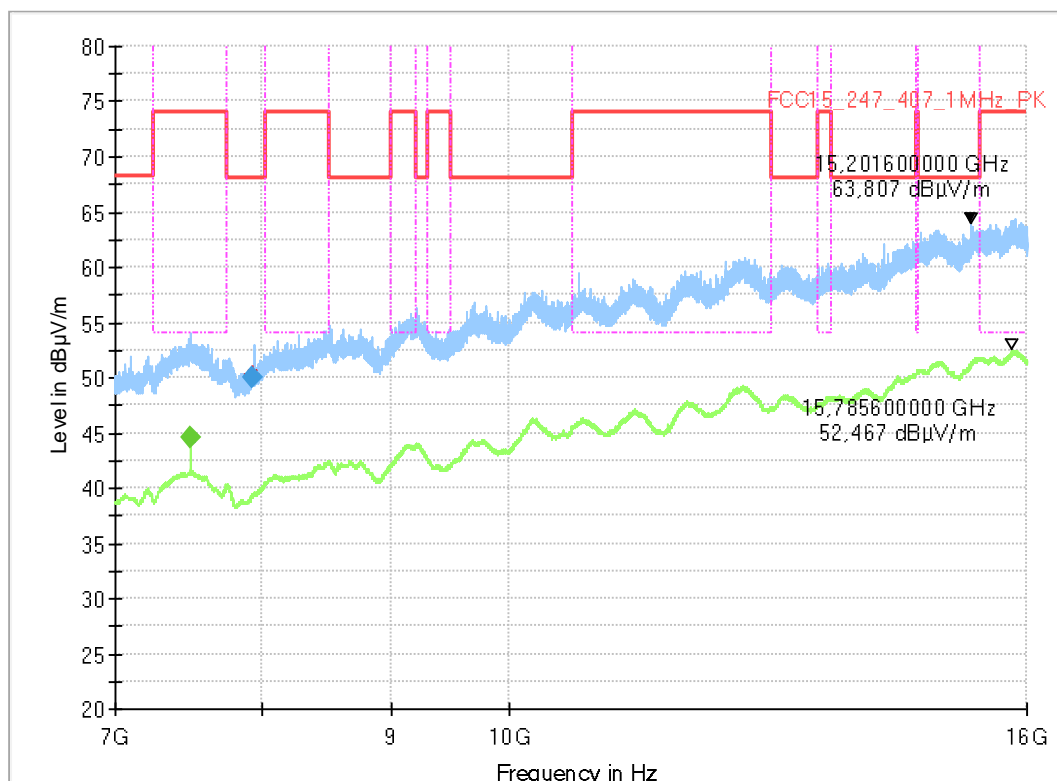
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	EMC-V10.50.00
Operating Mode:	ac-mode   HT80   VHT-MCS0   ch155  laying   PWR15
Operator:	RI
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
7499.000000	---	44.49	54.00	9.51	100.0	1000.000	155.0	V	218.0	0.0
7931.000000	50.06	---	68.00	17.94	100.0	1000.000	155.0	V	-4.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
7499.000000	19	20:29:41 - 14.05.2020
7931.000000	18	20:27:56 - 14.05.2020

## 4.13d\_ac-mode\_MCS0\_ch155

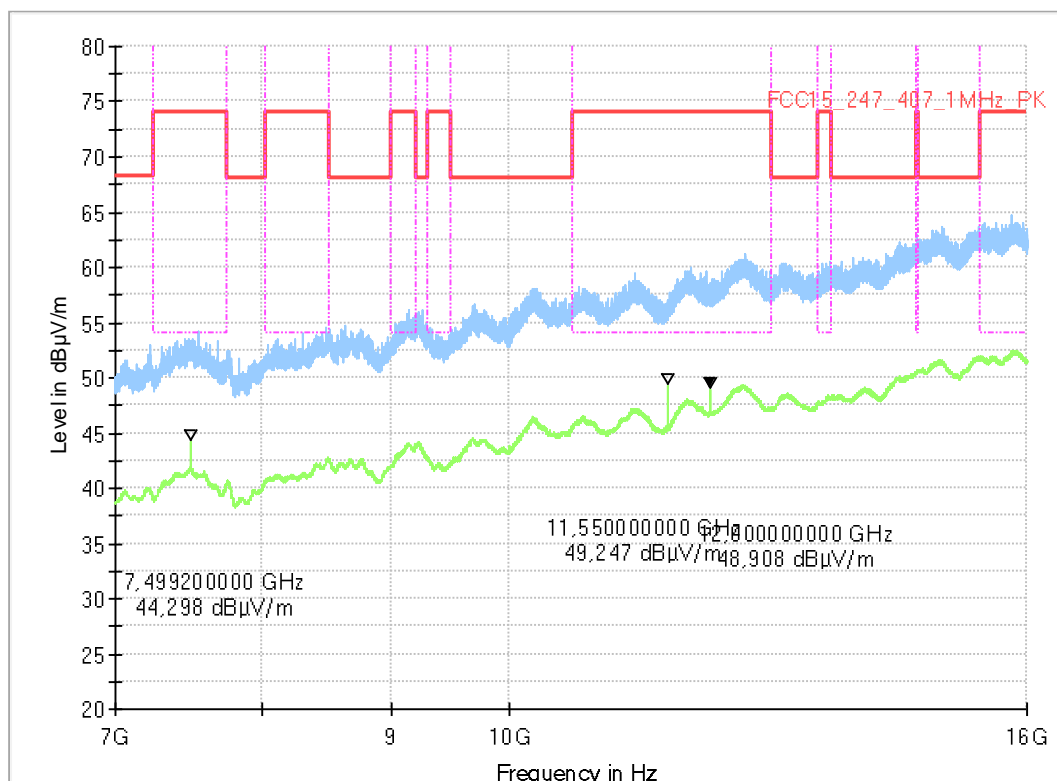
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	EMC-V10.50.00
Operating Mode:	ac-mode   VHT-80    MCS0   ch151   standing   PWR 15
Operator:	PMa
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

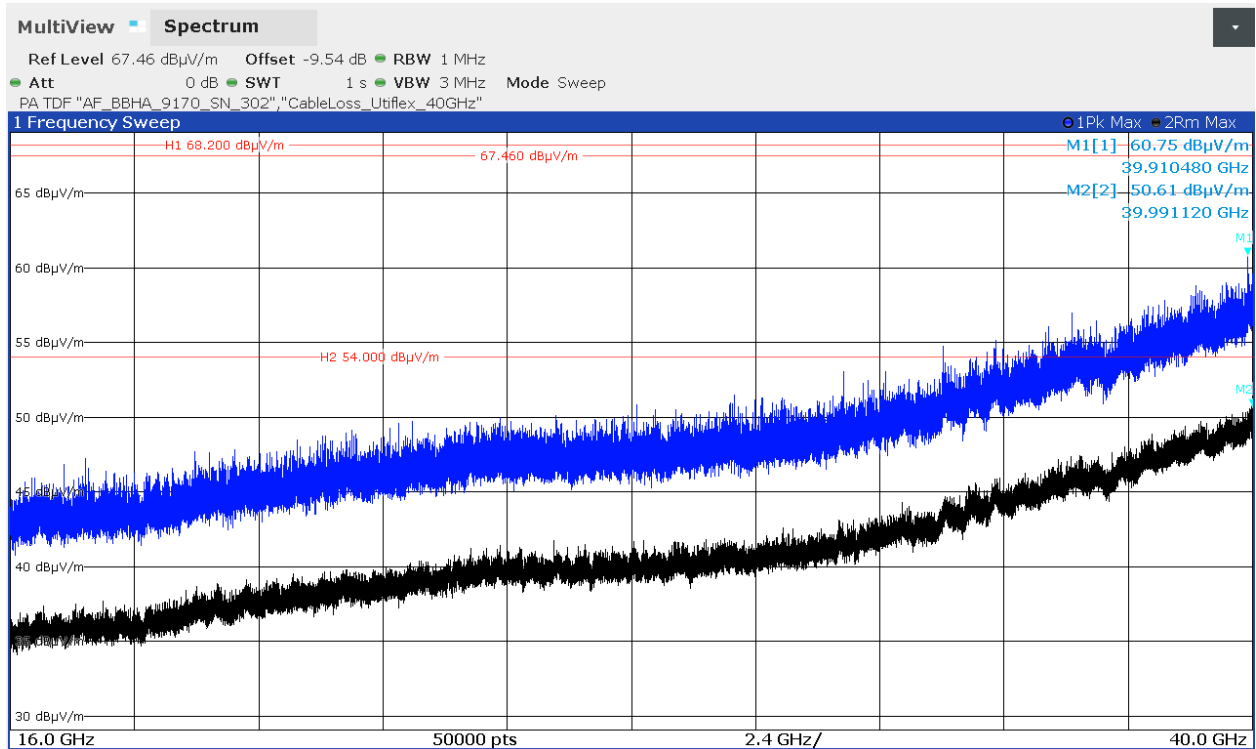
### EUT Information

PMT number:	18-1-00972S20_C01
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 4.13e\_ac-mode\_MCS0\_ch155



## 4.14a\_a-mode\_6MBps\_ch036

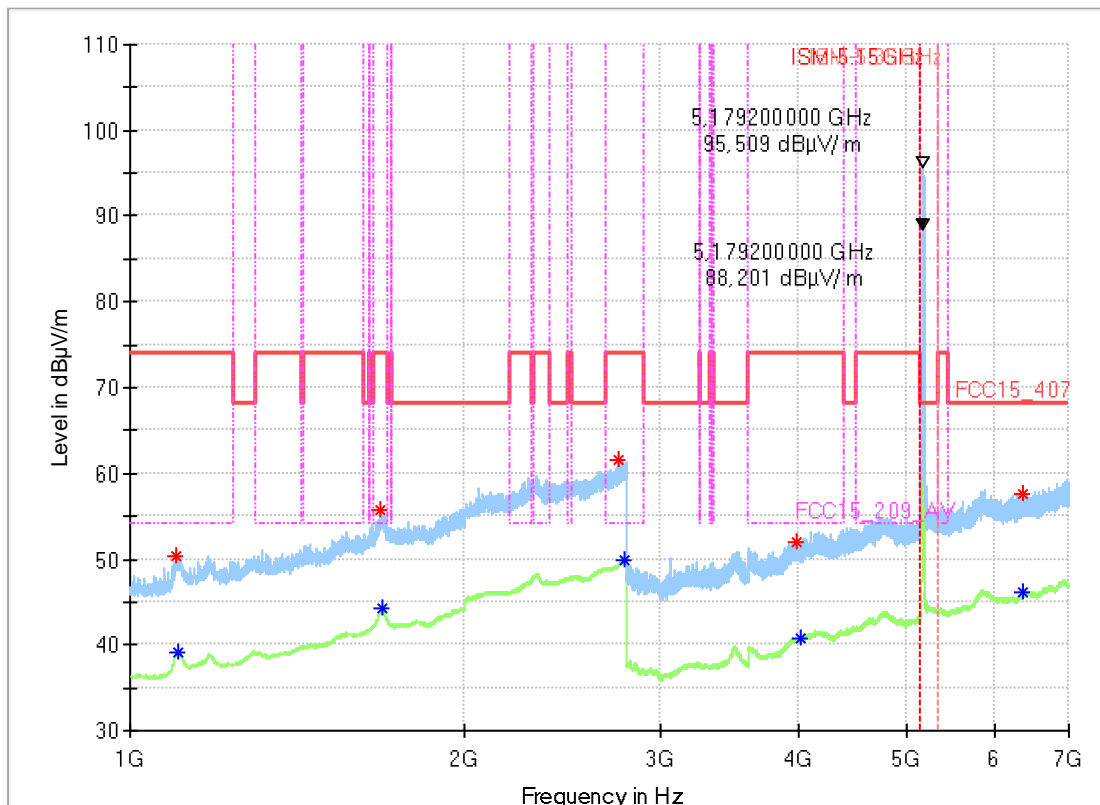
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch036   laying   PWR15
Operator:	TFra
Comment:	Internal antenna
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
1099.200000	50.41	---	74.00	23.59	---	---	155.0	H	135.0	0.0	35
1102.800000	---	39.01	54.00	14.99	---	---	155.0	H	315.0	0.0	35
1676.800000	55.64	---	74.00	18.36	---	---	155.0	V	135.0	0.0	40
1690.000000	---	44.29	54.00	9.71	---	---	155.0	V	270.0	0.0	40
2754.400000	61.46	---	74.00	12.54	---	---	155.0	V	0.0	0.0	45
2781.200000	---	50.00	54.00	4.00	---	---	155.0	H	180.0	0.0	45
3976.400000	51.88	---	74.00	22.12	---	---	155.0	H	135.0	0.0	9
4016.800000	---	40.81	54.00	13.19	---	---	155.0	V	225.0	0.0	9
6358.000000	---	46.15	150.00	103.85	---	---	155.0	V	45.0	0.0	15
6368.400000	57.59	---	68.20	10.61	---	---	155.0	H	180.0	0.0	15

## 4.14b\_a-mode\_6MBps\_ch036

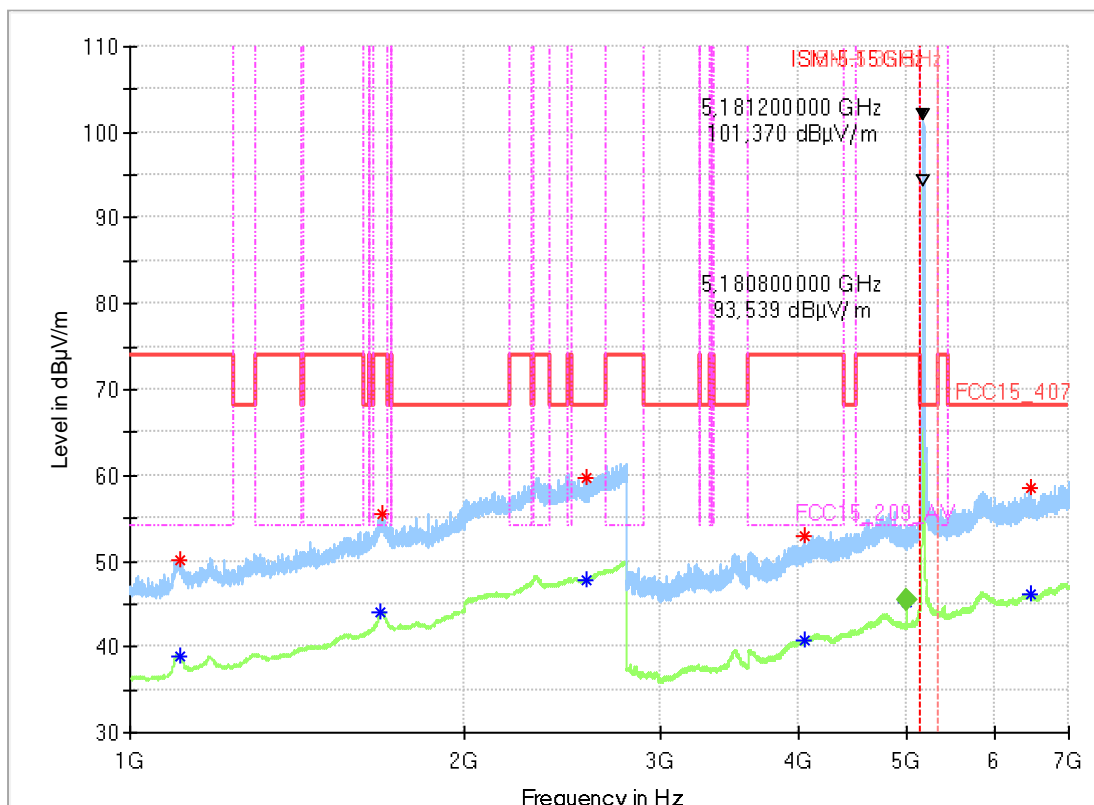
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch036   standing   PWR15
Operator:	TFra
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
4999.450000	---	45.33	54.00	8.67	100.0	1000.000	155.0	H	13.0	0.0	11

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
1108.400000	50.07	---	74.00	23.93	---	---	155.0	H	315.0	0.0	35
1110.000000	---	38.95	54.00	15.05	---	---	155.0	H	0.0	0.0	35
1680.400000	---	44.09	54.00	9.91	---	---	155.0	H	225.0	0.0	40
1685.200000	55.58	---	74.00	18.42	---	---	155.0	V	180.0	0.0	40
2576.400000	---	47.72	150.00	102.28	---	---	155.0	V	350.0	0.0	43
2578.000000	59.65	---	68.20	8.55	---	---	155.0	H	135.0	0.0	43
4040.000000	52.99	---	74.00	21.01	---	---	155.0	H	270.0	0.0	9
4047.200000	---	40.83	54.00	13.17	---	---	155.0	H	225.0	0.0	9
4999.450000	---	45.26	54.00	9.44	---	---	155.0	H	13.0	0.0	11
6464.800000	---	46.12	150.00	103.88	---	---	155.0	V	270.0	0.0	15
6470.800000	58.57	---	68.20	9.63	---	---	155.0	V	90.0	0.0	15

## 4.14c\_a-mode\_6MBps\_ch036

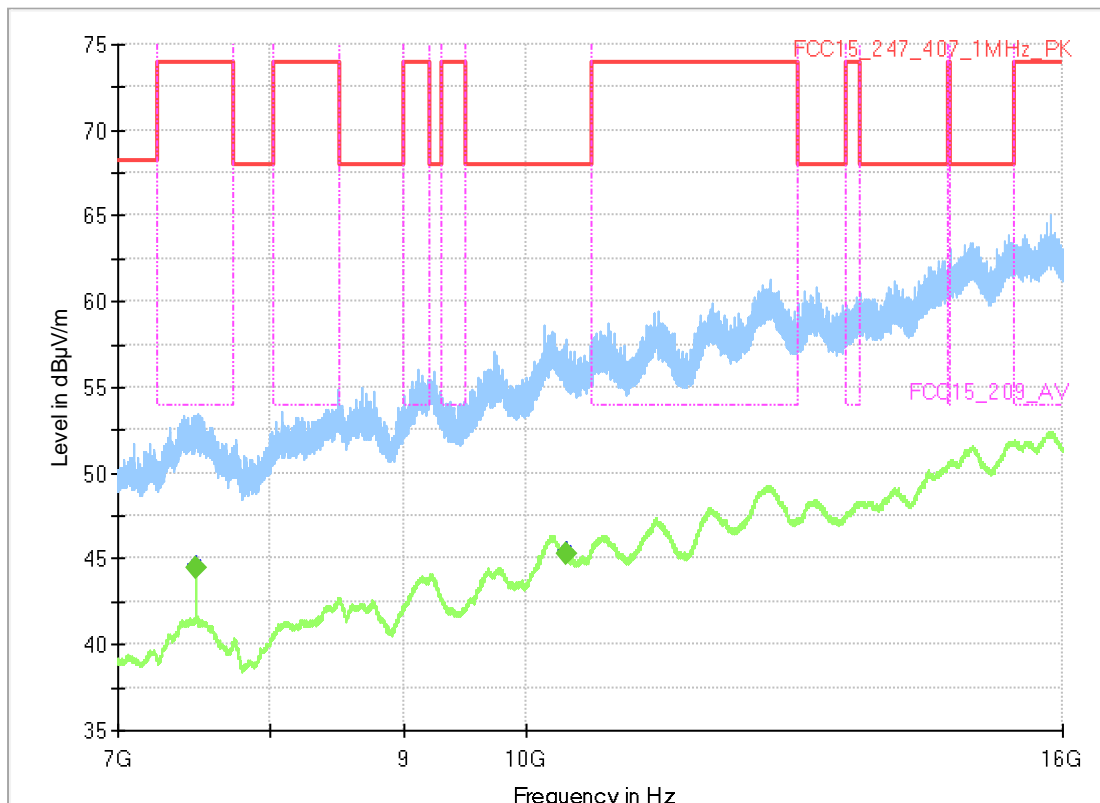
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch036   laying   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





**Final\_Result**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.50	54.00	9.50	100.0	1000.000	155.0	V	230.0	19
10359.800000	---	45.27	150.00	104.73	100.0	1000.000	155.0	V	196.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
10359.800000	-18	0

## 4.14d\_a-mode\_6MBps\_ch036

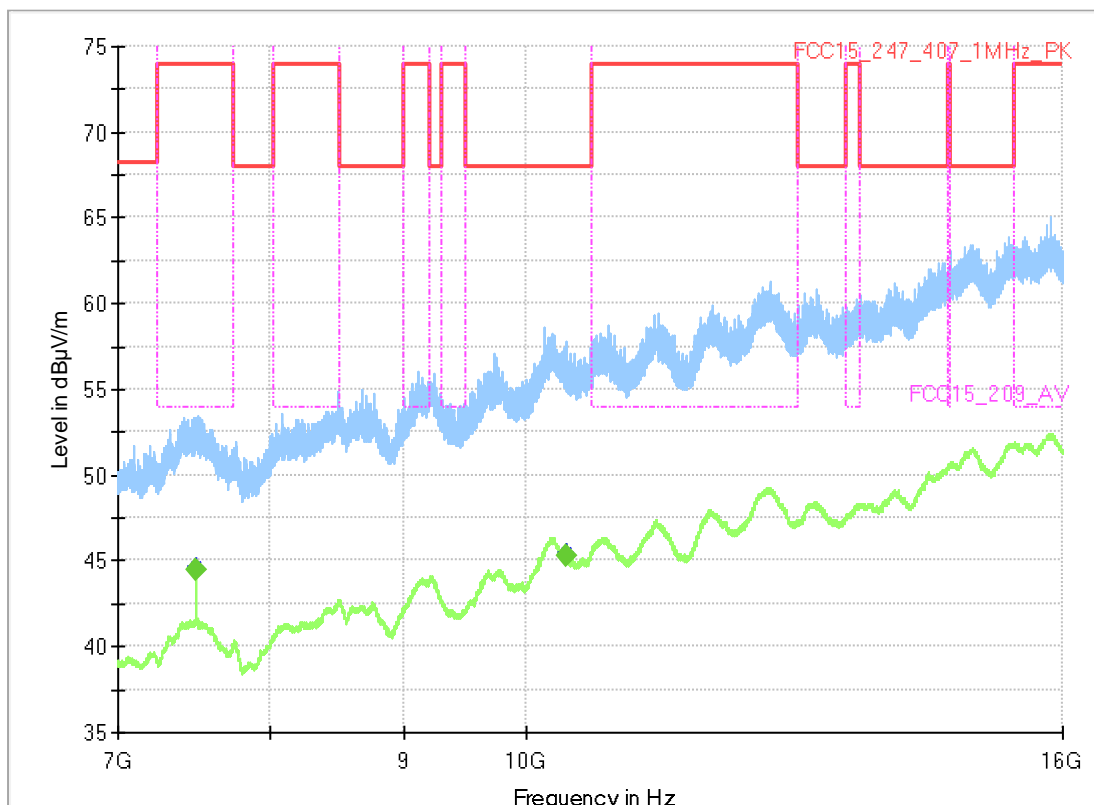
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch036   laying   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.50	54.00	9.50	100.0	1000.000	155.0	V	230.0	19
10359.800000	---	45.27	150.00	104.73	100.0	1000.000	155.0	V	196.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
10359.800000	-18	0

## 4.14d\_a-mode\_6MBps\_ch036

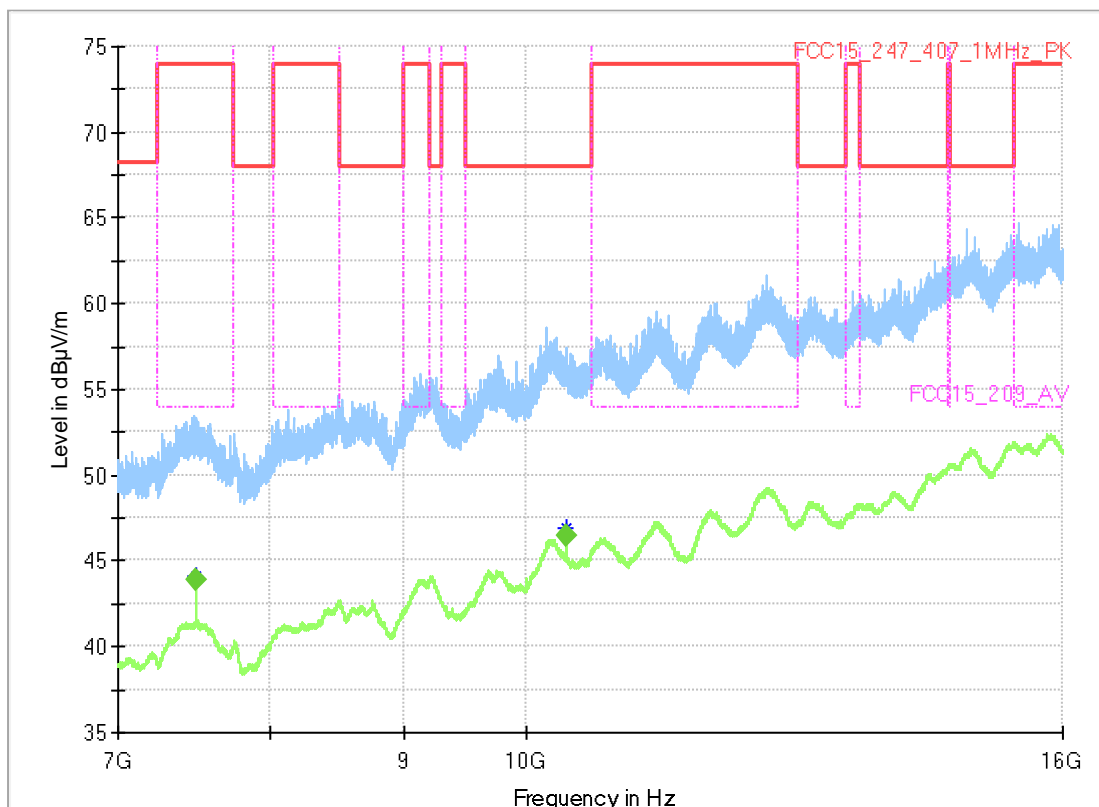
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	a-mode   6MBps   ch036   standing   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



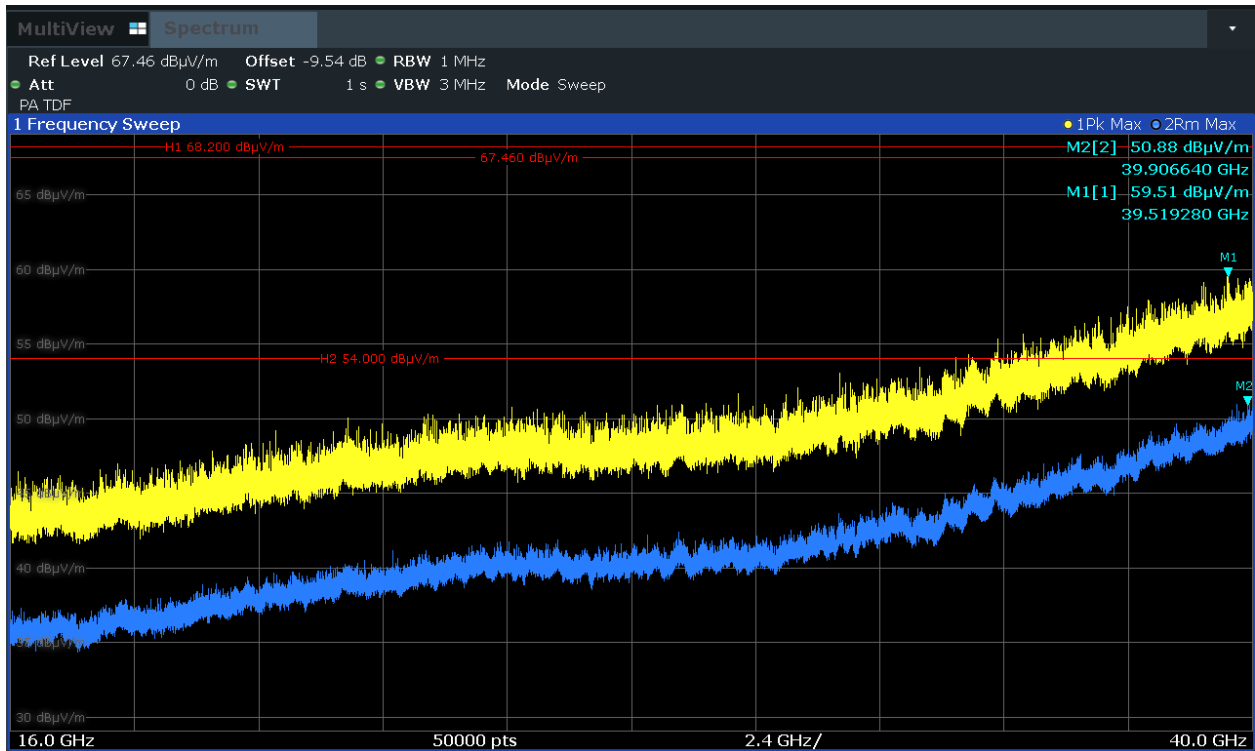
**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	43.87	54.00	10.13	100.0	1000.000	155.0	H	30.0	19
10359.800000	---	46.52	150.00	103.48	100.0	1000.000	155.0	V	322.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
10359.800000	-18	0

### 4.14e\_a-mode\_6Mbps\_ch036



## 4.15a\_n-mode\_MCS0\_ch038

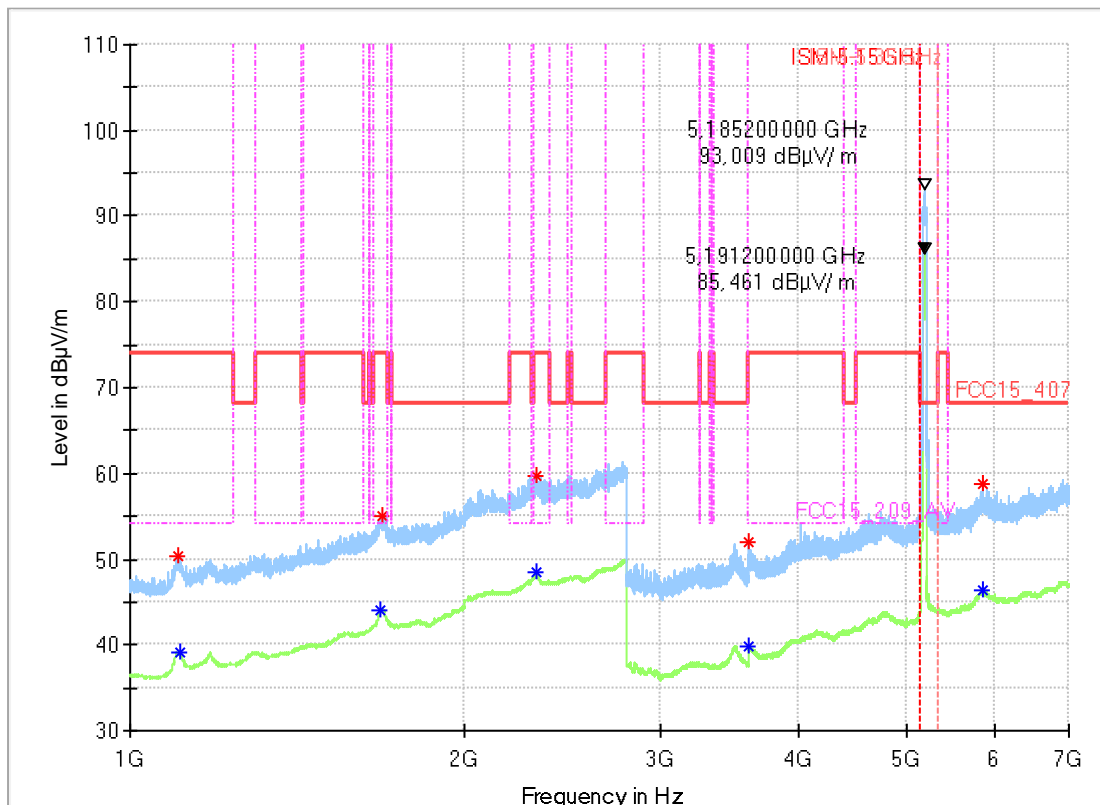
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	n-mode   MCS0   ch38   laying   PWR15
Operator:	TFra
Comment:	Internal antenna
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
1103.600000	50.34	---	74.00	23.66	---	---	155.0	V	0.0	0.0	35
1108.800000	---	39.17	54.00	14.83	---	---	155.0	H	45.0	0.0	35
1680.000000	---	44.03	54.00	9.97	---	---	155.0	V	315.0	0.0	40
1687.600000	55.06	---	74.00	18.94	---	---	155.0	H	135.0	0.0	40
2322.400000	---	48.39	54.00	5.61	---	---	155.0	H	45.0	0.0	43
2322.400000	59.71	---	74.00	14.29	---	---	155.0	H	270.0	0.0	43
3601.600000	---	39.82	54.00	14.18	---	---	155.0	H	135.0	0.0	8
3604.000000	51.89	---	74.00	22.11	---	---	155.0	H	135.0	0.0	8
5851.600000	---	46.49	150.00	103.51	---	---	155.0	V	180.0	0.0	16
5864.000000	58.67	---	68.20	9.53	---	---	155.0	H	45.0	0.0	15



## 4.15b\_n-mode\_MCS0\_ch038

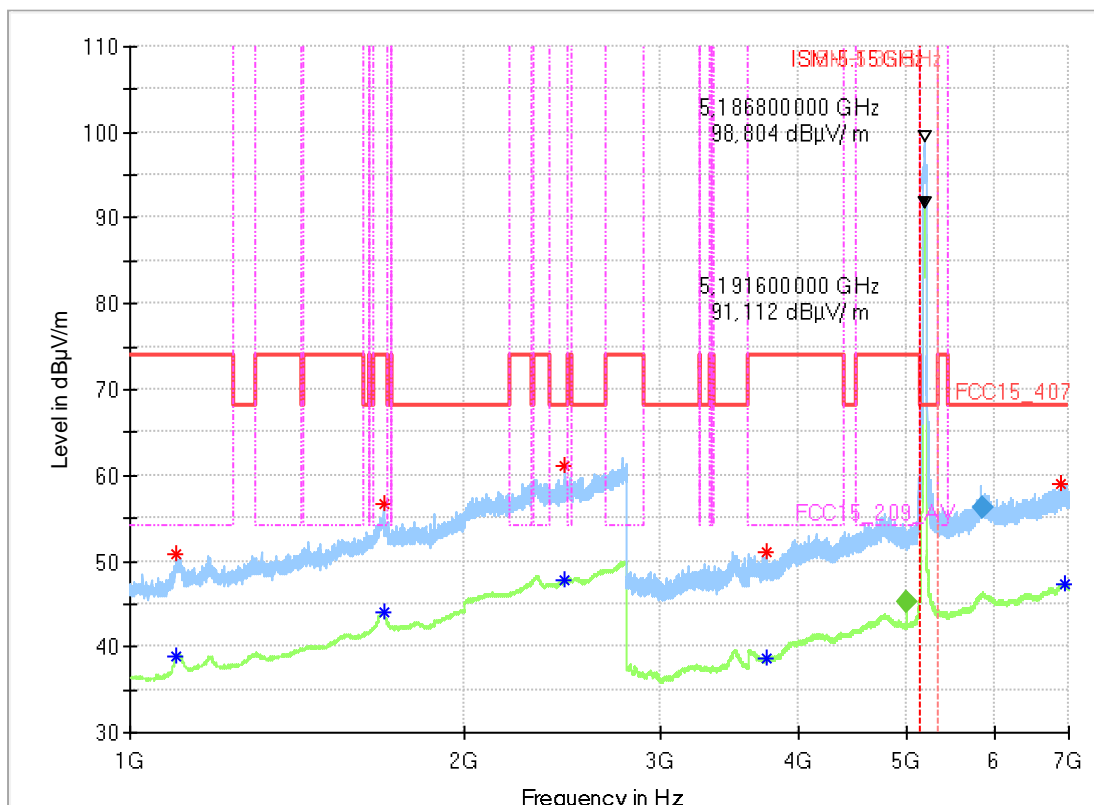
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	n-mode   MCS0   ch038   standing   PWR15
Operator:	TFra
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Elevation (n)	Corr. (dB/m)
4999.450000	---	45.25	54.00	8.75	100.0	1000.000	155.0	H	13.0	0.0	11
5862.700000	56.24	---	68.20	11.96	100.0	1000.000	155.0	V	288.0	0.0	15

**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Elevation (n)	Corr. (dB/m)
1099.200000	---	38.90	54.00	15.10	---	---	155.0	V	225.0	0.0	35
1101.200000	50.74	---	74.00	23.26	---	---	155.0	V	45.0	0.0	35
1690.400000	56.65	---	74.00	17.35	---	---	155.0	H	315.0	0.0	40
1690.800000	---	43.96	54.00	10.04	---	---	155.0	H	45.0	0.0	40
2463.600000	---	47.81	150.00	102.19	---	---	155.0	H	90.0	0.0	42
2465.200000	61.05	---	68.20	7.15	---	---	155.0	V	135.0	0.0	42
3735.600000	50.94	---	74.00	23.06	---	---	155.0	V	350.0	0.0	7
3736.400000	---	38.67	54.00	15.33	---	---	155.0	H	45.0	0.0	7
4999.450000	---	45.42	54.00	9.27	---	---	155.0	H	13.0	0.0	11
5862.700000	56.29	---	68.20	9.50	---	---	155.0	V	288.0	0.0	15
6896.400000	59.08	---	68.20	9.12	---	---	155.0	H	315.0	0.0	17
6934.800000	---	47.37	150.00	102.63	---	---	155.0	H	90.0	0.0	17

## 4.15c\_n-mode\_MCS0\_ch038

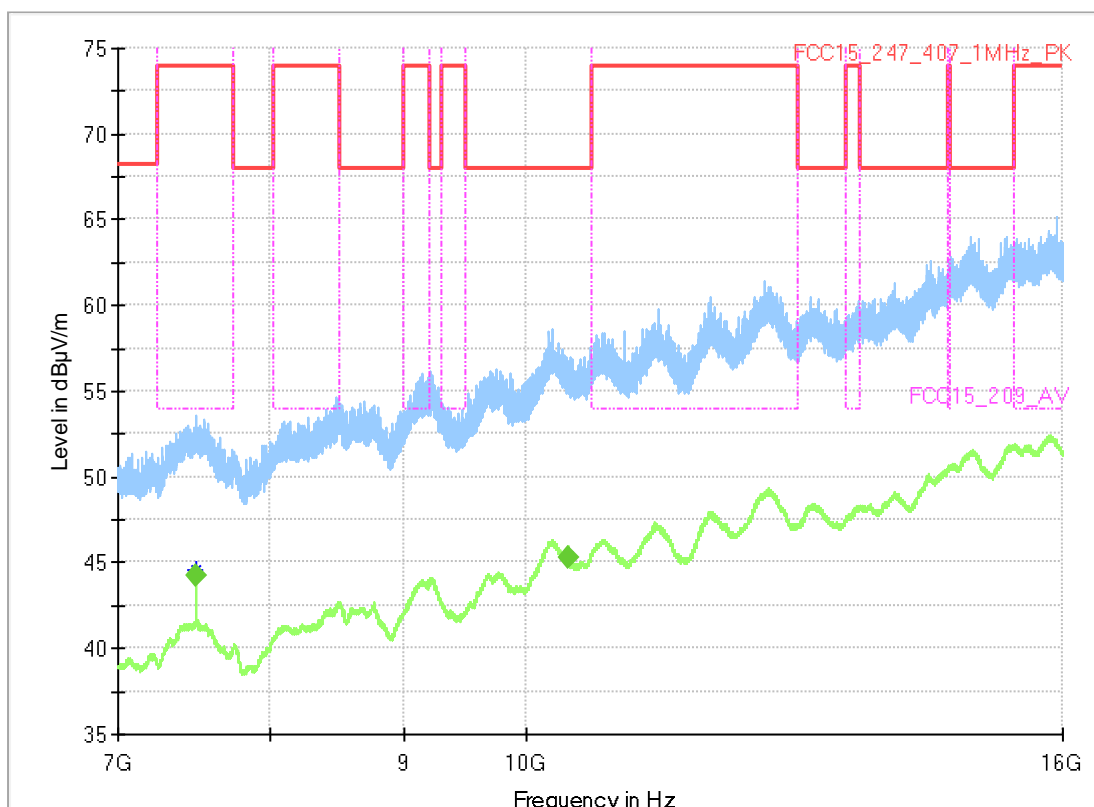
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	n-mode   MCS0   ch38   laying   PWR15
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.22	54.00	9.78	100.0	1000.000	155.0	V	231.0	19
10379.800000	---	45.31	150.00	104.69	100.0	1000.000	155.0	V	194.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
10379.800000	-18	0

## 4.15d\_n-mode\_MCS0\_ch038

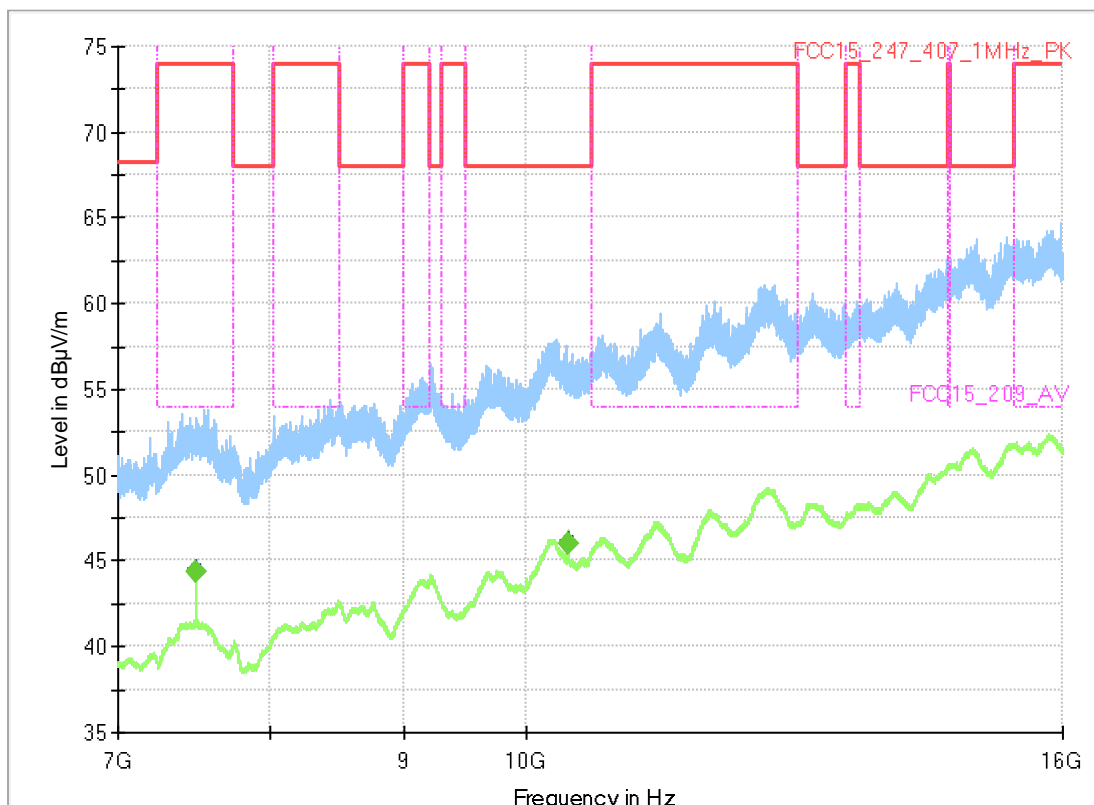
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	4.15d_n-mode_MCS0_ch038
Operator:	HEI
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





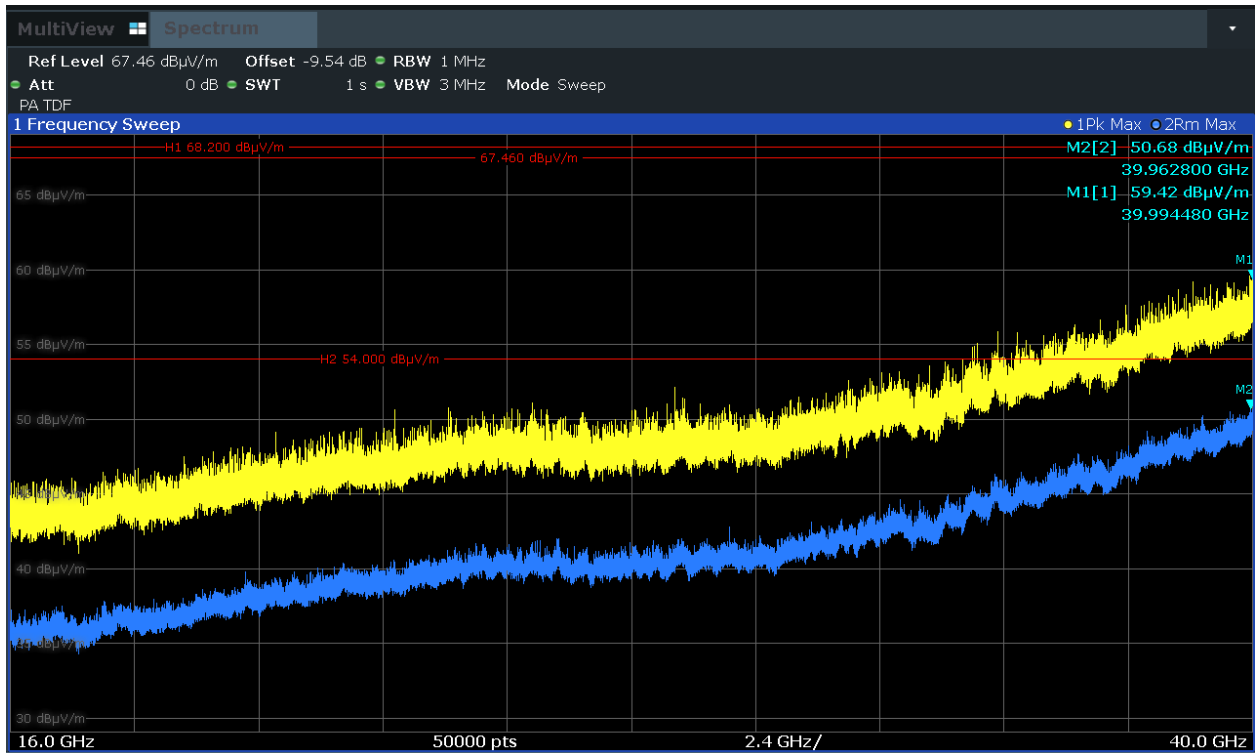
**Final\_Result**

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB/m)
7499.000000	---	44.41	54.00	9.59	100.0	1000.000	155.0	H	5.0	19
10380.200000	---	46.00	150.00	104.00	100.0	1000.000	155.0	V	322.0	24

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

Frequency (MHz)	Sig Path (dB)	Pream p
7499.000000	-21	0
10380.200000	-18	0

# 4.15e\_n-mode\_MCS0\_ch038



## 4.16a\_ac-mode\_VHT-MCS0\_ch42

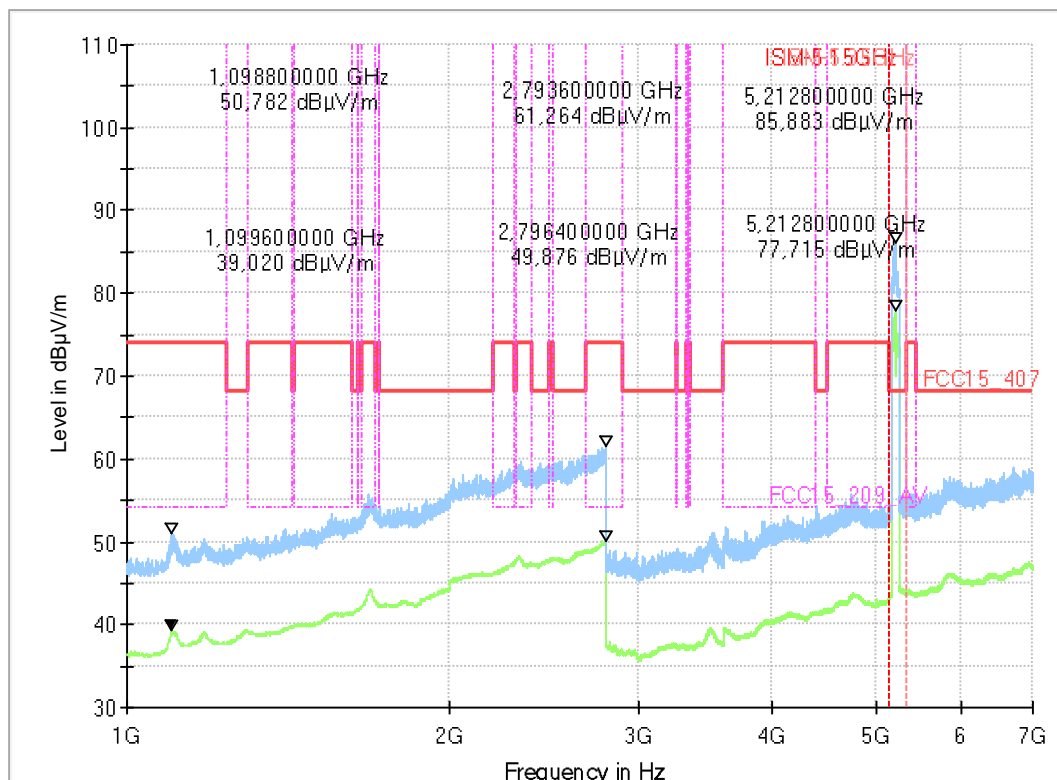
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	#Ver
Operating Mode:	ac-mode   VHT-MCS0   ch42   laying   PWR10
Operator:	TFra
Comment:	Laptop in chamber
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum





## 4.16b\_c-mode\_VHT-MCS0\_ch42

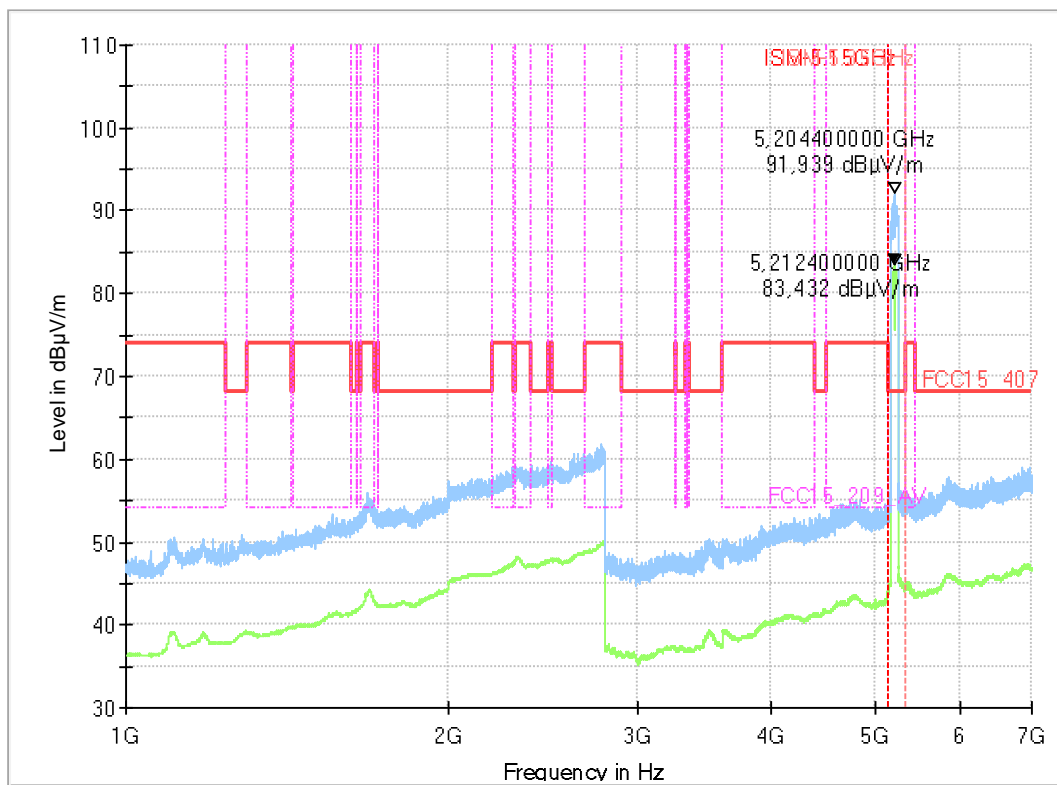
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Operating Mode:	ac-mode   VHT-80   MCS0   ch042  standing   PWR 10
Operator:	RIS
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20_C01
Manufacturer:	ACTIA Nordic AB

Full Spectrum



## 4.16c\_ac-mode\_VHT-MCS0\_ch42

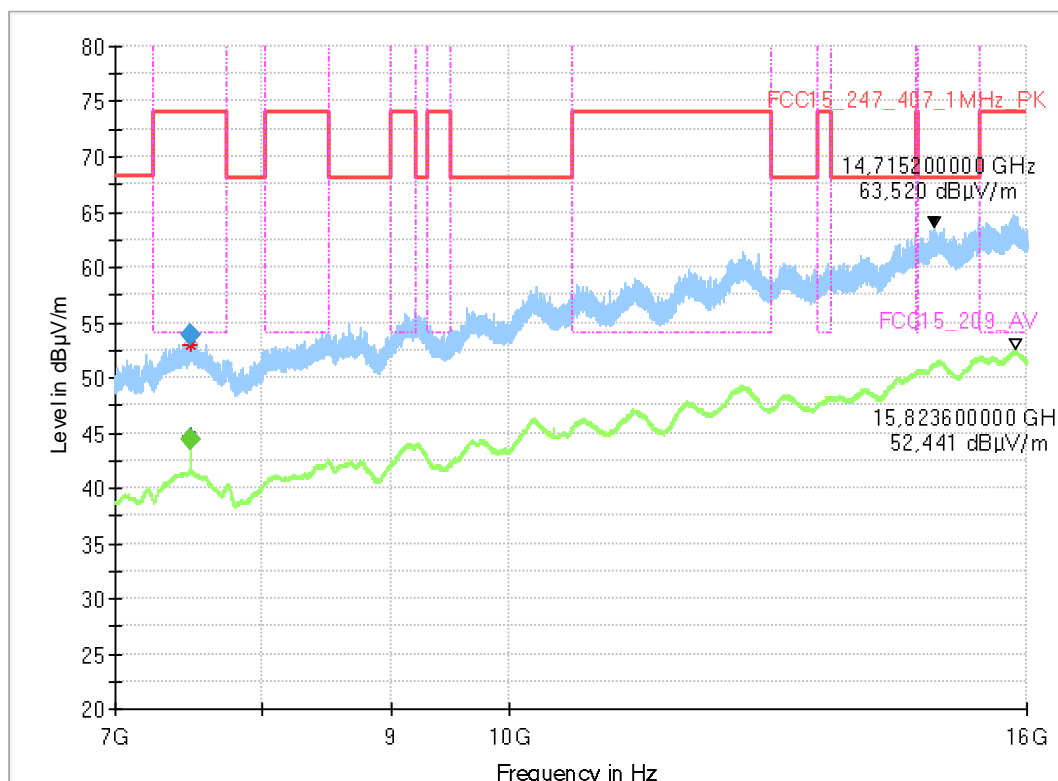
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	EMC-V10.50.00
Operating Mode:	ac-mode   VHT-MCS0   ch42   laying   PWR10
Operator:	RI
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20
Manufacturer:	ACTIA Nordic AB

Full Spectrum



**Final\_Result**

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
7499.000000	---	44.44	54.00	9.56	100.0	1000.000	155.0	V	219.0	0.0
7499.000000	53.83	---	74.00	20.17	100.0	1000.000	155.0	V	221.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
7499.000000	19	21:28:41 - 14.05.2020
7499.000000	19	21:27:20 - 14.05.2020

## 4.16d\_ac-mode\_VHT-MCS0\_ch42

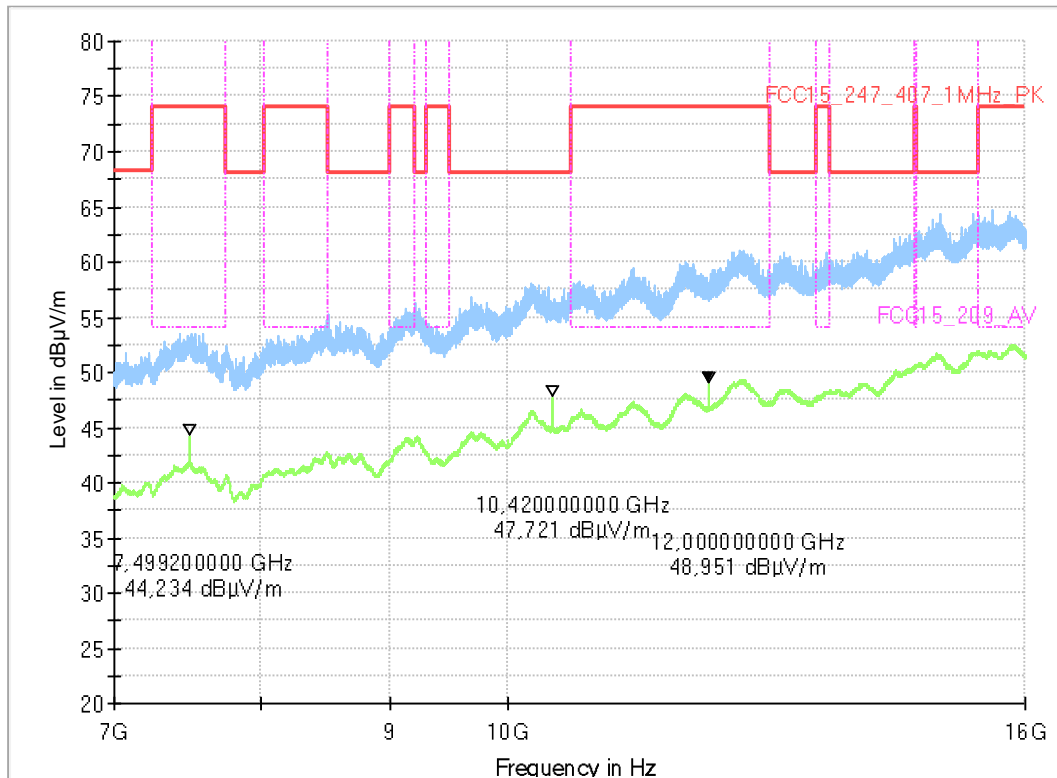
### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarization:	horizontal/vertical
Software Version:	EMC-V10.50.00
Operating Mode:	ac-mode   VHT-80    MCS0   ch042   standing   PWR 10
Operator:	PMa
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

### EUT Information

PMT number:	18-1-00972S20_C01
Manufacturer:	ACTIA Nordic AB

Full Spectrum



# 4.16e\_ac-mode\_VHT-MCS0\_ch42

