

Annex 1: Measurement diagrams to Test Report 18-1-0097201T22a-C02-A1

Number of pages:	281	Date of Report:	2021-Sep-08
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	ACTIA NORDIC AB
Test Object / Tested Device(s):	103360002, Telematics Device		
FCC ID:	2AGKK103360002	IC:	20839-103360002
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart E: §15.407 (DTS) Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

1 Measurement diagrams

1.1 Conducted

External Antenna

a-mode 20 MHz BW [6Mbps]

Mode	Power settings	DUT Frequency (MHz)	Gated RMS (dBm)	FCC Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
FCC External; 5180MHz	12	5180.000000	11.95	24.0	9.10	99.310	PASS
FCC External; 5200MHz	12	5200.000000	10.75	24.0	7.90	99.301	PASS
FCC External; 5220MHz	12	5220.000000	9.65	24.0	6.80	99.311	PASS
FCC External; 5240MHz	12	5240.000000	9.05	24.0	6.20	99.310	PASS
FCC External; 5745MHz	17	5745.000000	15.65	30.0	12.80	99.298	PASS
FCC External; 5765MHz	17	5765.000000	16.05	30.0	13.20	99.298	PASS
FCC External; 5785MHz	17	5785.000000	16.25	30.0	13.40	99.299	PASS
FCC External; 5805MHz	17	5805.000000	15.75	30.0	12.90	99.299	PASS
FCC External; 5825MHz	17	5825.000000	15.55	30.0	12.70	99.297	PASS

n-mode 40 MHz BW [MCS0]

Mode	Power settings	DUT Frequency (MHz)	Gated RMS (dBm)	FCC Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
FCC External; 5190MHz	10	5190.000000	9.45	24.0	6.60	98.498	PASS
FCC External; 5230MHz	13	5230.000000	8.35	24.0	5.50	98.474	PASS
FCC External; 5755MHz	17	5755.000000	16.55	30.0	13.70	98.490	PASS
FCC External; 5795MHz	17	5795.000000	16.75	30.0	13.90	98.490	PASS

ac-mode 80 MHz BW [MCS0]

Mode	Power settings	DUT Frequency (MHz)	Gated RMS (dBm)	FCC Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
FCC External; 5210MHz	10	5210.000000	8.25	24.0	5.40	97.021	PASS
FCC External; 5775MHz	15	5775.000000	14.25	30.0	11.40	96.928	PASS

Internal Antenna

a-mode 20 MHz BW [6Mbps]

Mode	Power settings	DUT Frequency (MHz)	Gated RMS (dBm)	FCC Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
FCC Internal; 5180MHz	12	5180.000000	10.55	24.0	11.00	99.298	PASS
FCC Internal; 5200MHz	12	5200.000000	10.35	24.0	10.80	99.299	PASS
FCC Internal; 5220MHz	12	5220.000000	9.75	24.0	10.20	99.303	PASS
FCC Internal; 5240MHz	12	5240.000000	8.65	24.0	9.10	99.301	PASS
FCC Internal; 5745MHz	17	5745.000000	16.45	30.0	16.90	99.299	PASS
FCC Internal; 5785MHz	17	5785.000000	16.95	30.0	17.40	99.299	PASS
FCC Internal; 5825MHz	17	5825.000000	16.05	30.0	16.50	99.296	PASS

n-mode 40 MHz BW [MCS0]

Mode	Power settings	DUT Frequency (MHz)	Gated RMS (dBm)	FCC Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
FCC Internal; 5190MHz	10	5190.000000	8.55	24.0	9.00	98.484	PASS
FCC Internal; 5230MHz	13	5230.000000	10.05	24.0	10.50	98.484	PASS
FCC Internal; 5755MHz	17	5755.000000	17.45	30.0	17.90	98.477	PASS
FCC Internal; 5795MHz	17	5795.000000	17.45	30.0	17.90	98.487	PASS

ac-mode 80 MHz BW [MCS0]

Mode	Power settings	DUT Frequency (MHz)	Gated RMS (dBm)	FCC Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
FCC Internal; 5210MHz	10	5210.000000	8.05	24.0	8.50	97.064	PASS
FCC Internal; 5775MHz	15	5775.000000	15.15	30.0	15.60	96.912	PASS

1.2 Radiated

1.2.1 External Antenna

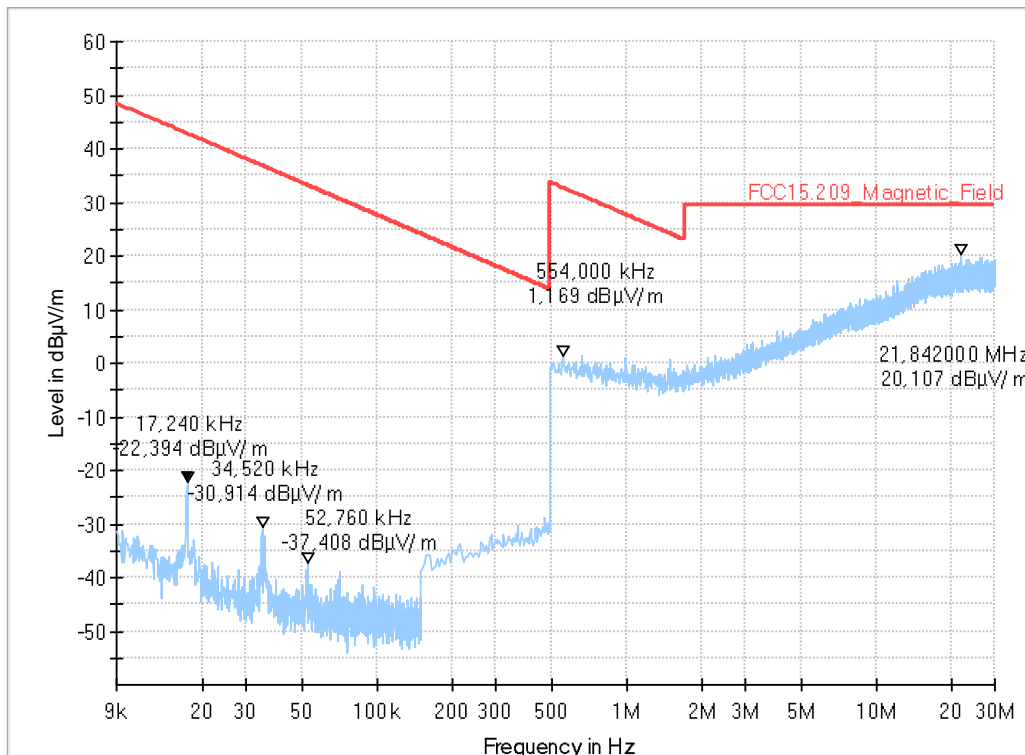
2.01a_a-mode_6Mbps_ch157

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:	Tfa
Operating Mode:	a-mode 6Mbps ch157 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



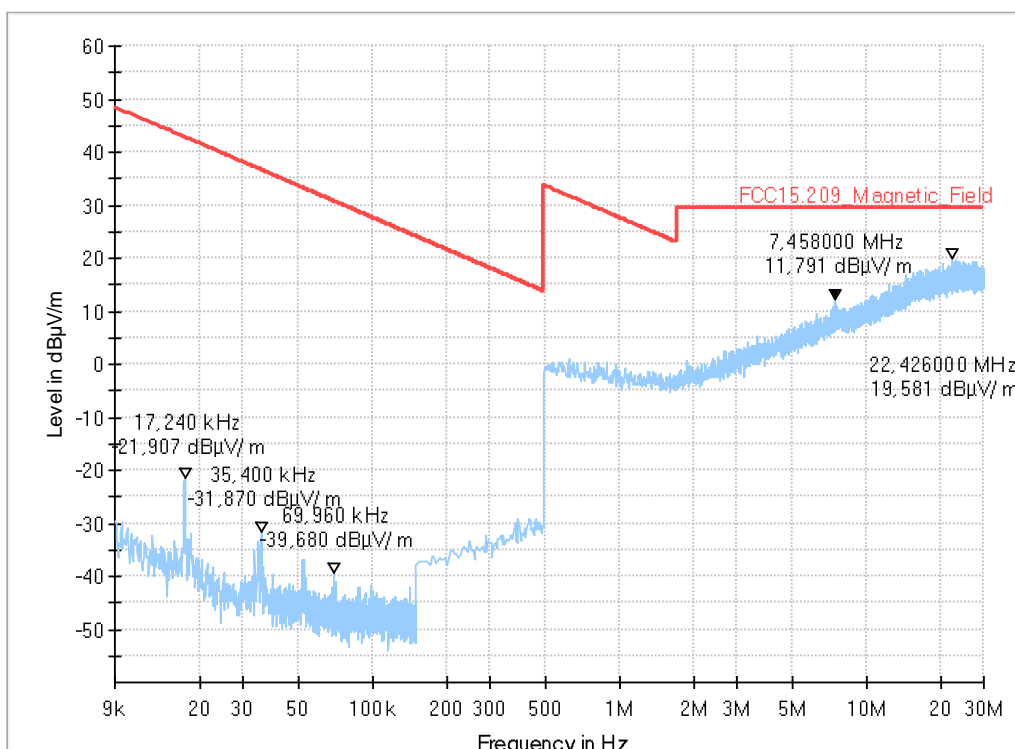
2.01b_a-mode_6MBps_ch157

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:	Tfa
Operating Mode:	a-mode 6MBps ch157 standing 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



2.02a_n-mode_MCS0_ch151

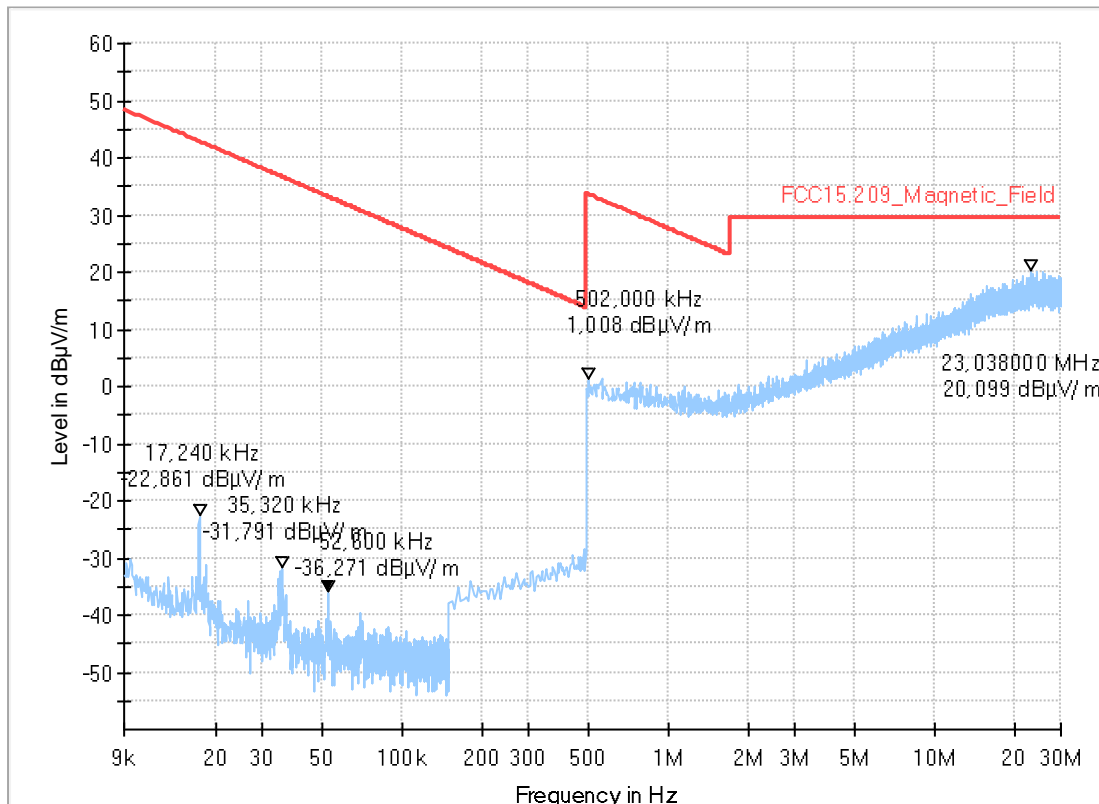
Common Information

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:	Tfa
Operating Mode:	n-mode HT40 MCS0 ch151 laying PWR15
Environmental Conditions:	Humidity : 51% rH; Temperature: 21 °C
EUT Setup:	standing
Verdict:	Passed

EUT Information

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

Full Spectrum



2.02b_n-mode_MCS0_ch151

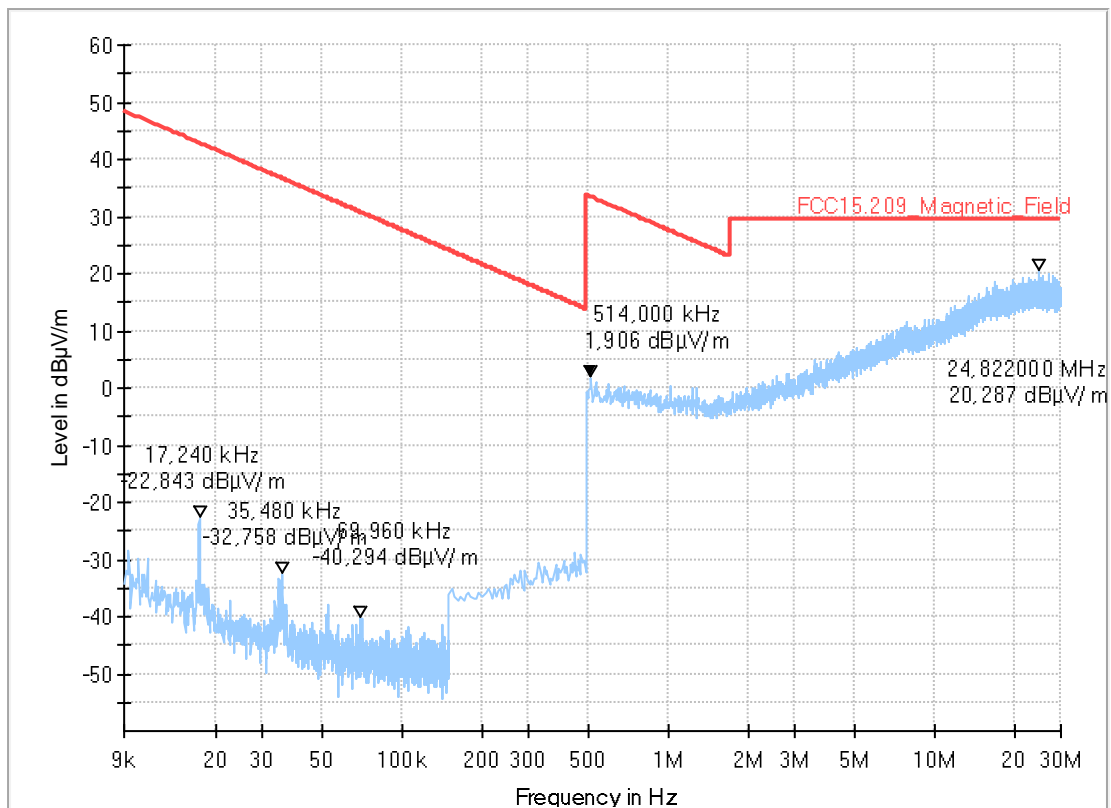
Common Information

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:	Tfa
Operating Mode:	n-mode HT40 MCS0 ch0151 standing 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



2.03a_ac-mode_VHT-MCS0_ch155

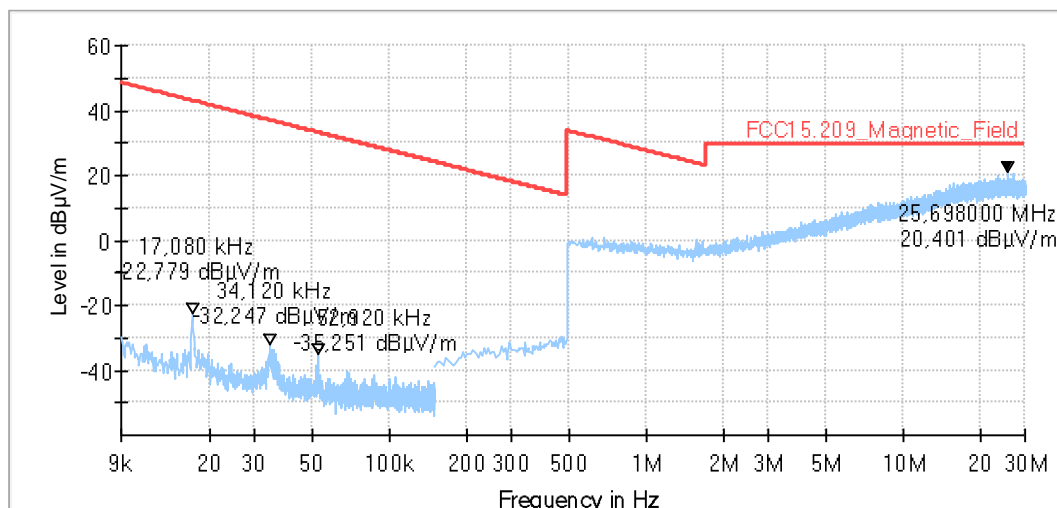
Common Information

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



2.03b_ac-mode_VHT-MCS0_ch155

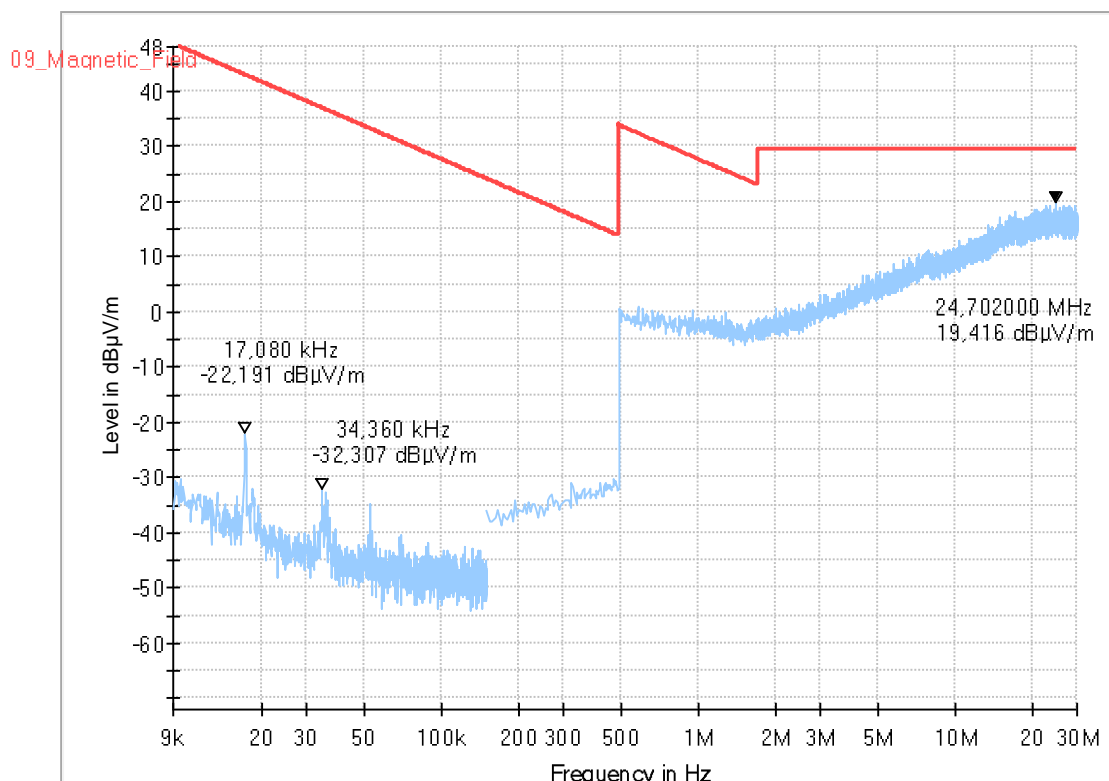
Common Information

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
Verdict:	Passed

EUT Information

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

Full Spectrum



2.04a_a-mode_6MBps_ch036

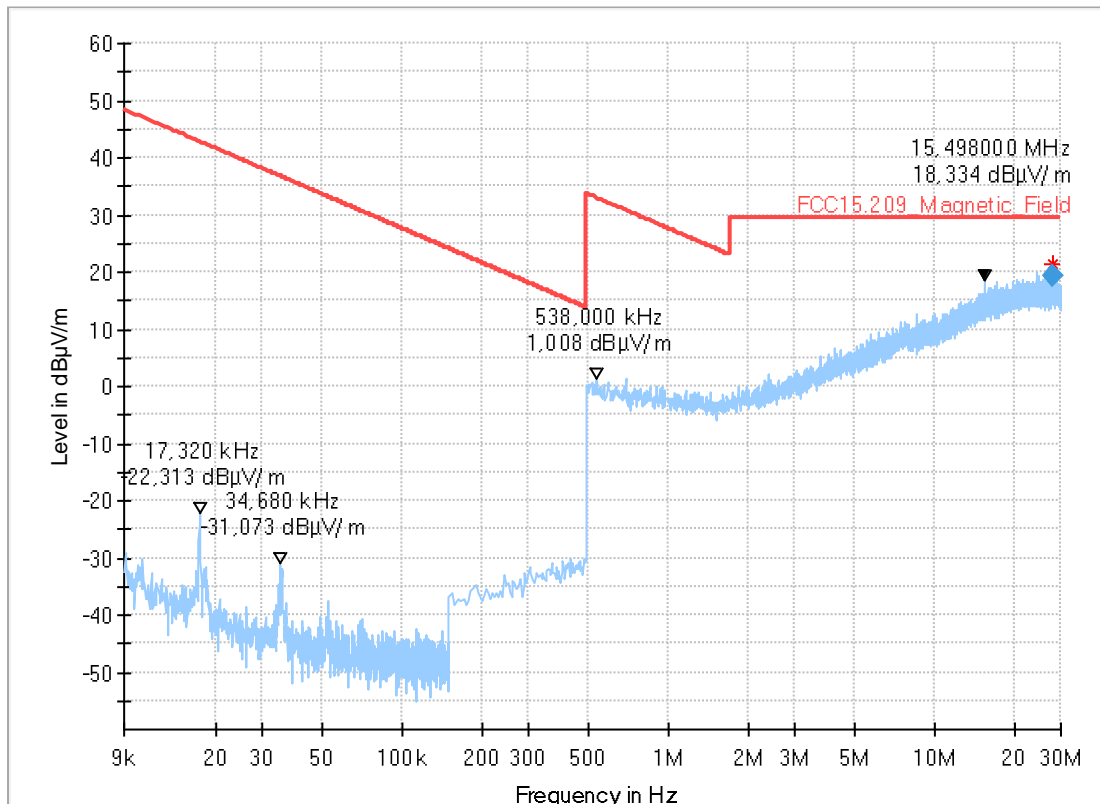
Common Information

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 : 52% rH; Temperature: 20 °C
EUT Setup:	standing
Verdict:	Passed

EUT Information

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

Full Spectrum



2.04b_a-mode_6MBps_ch036

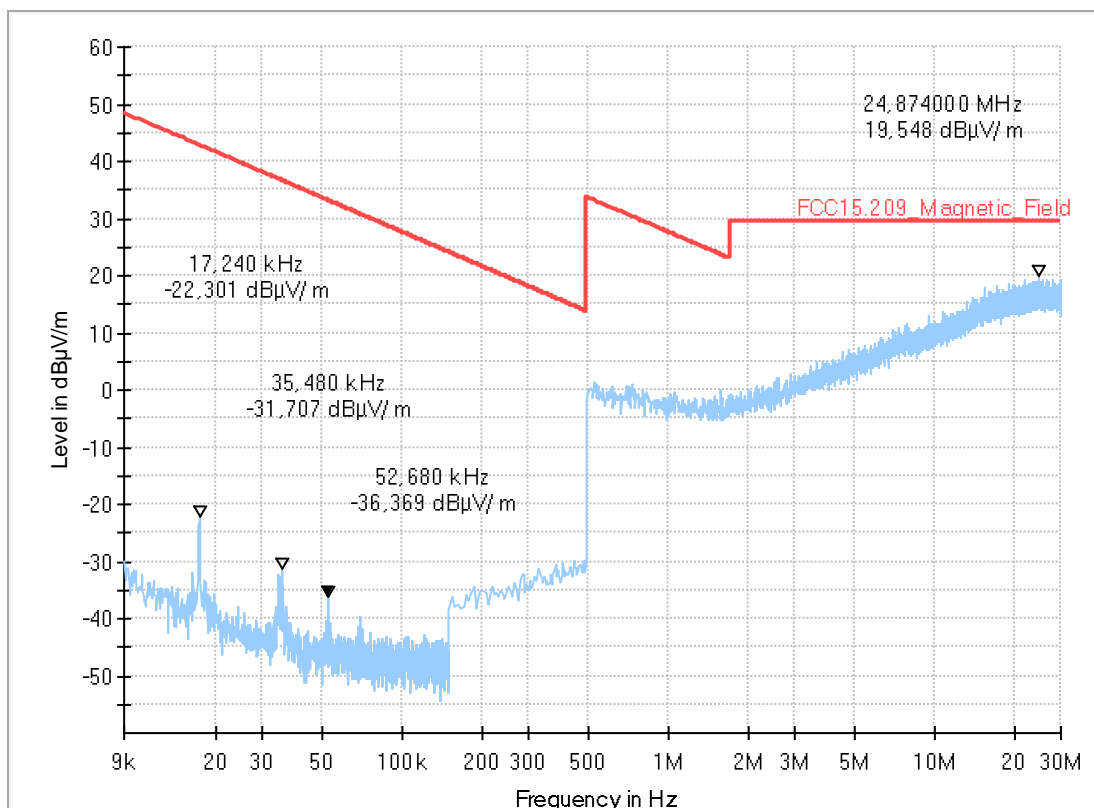
Common Information

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 standing 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



2.05a_n-mode_MCS0_ch038

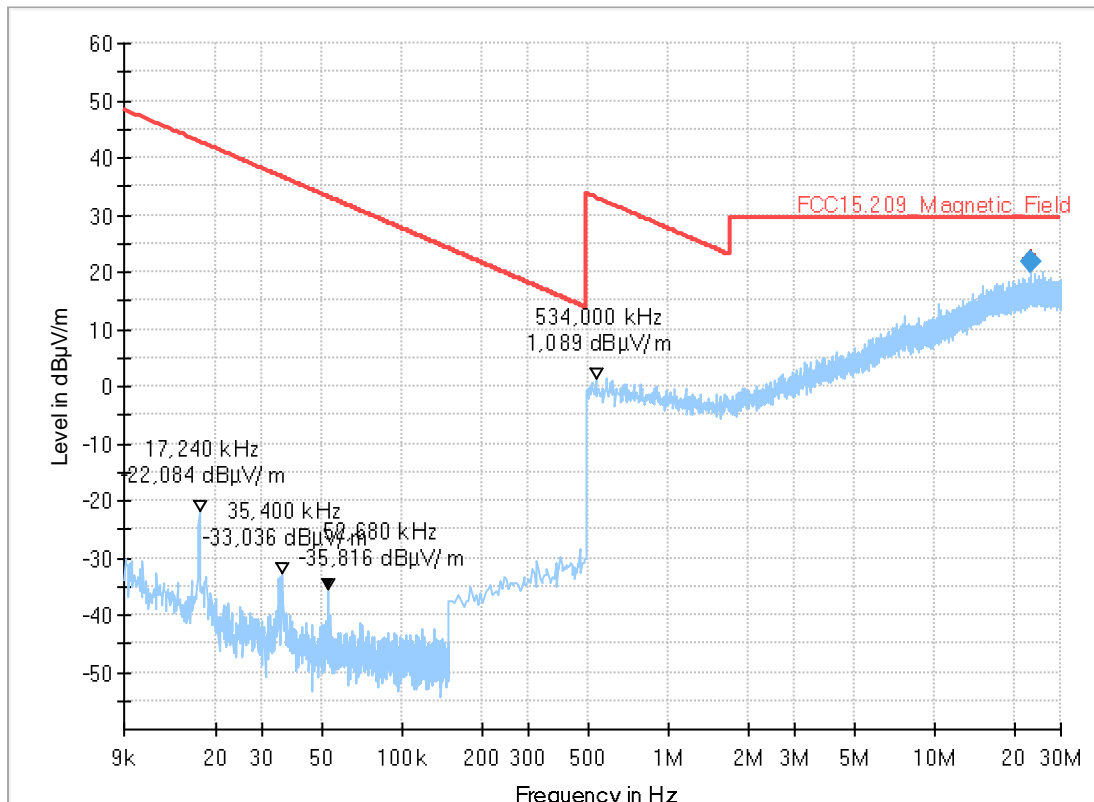
Common Information

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



2.05b_n-mode_MCS0_ch038

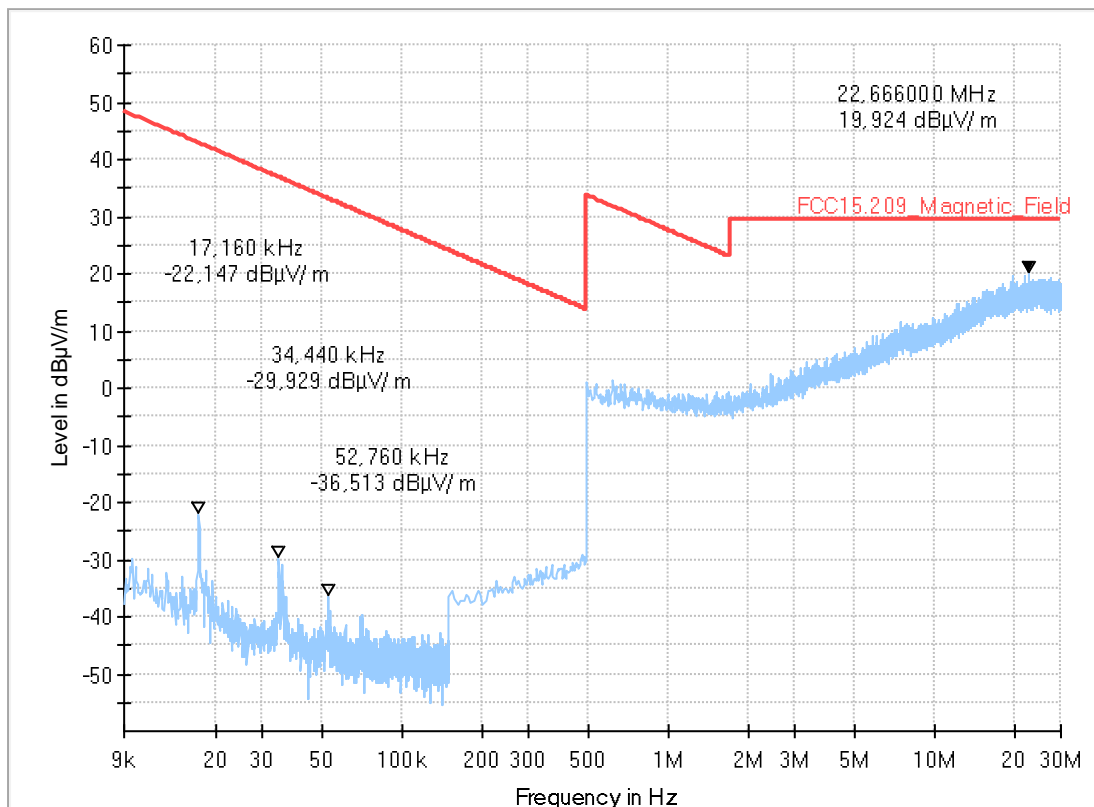
Common Information

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



2.06a_ac-mode_VHT-MCS0_ch42

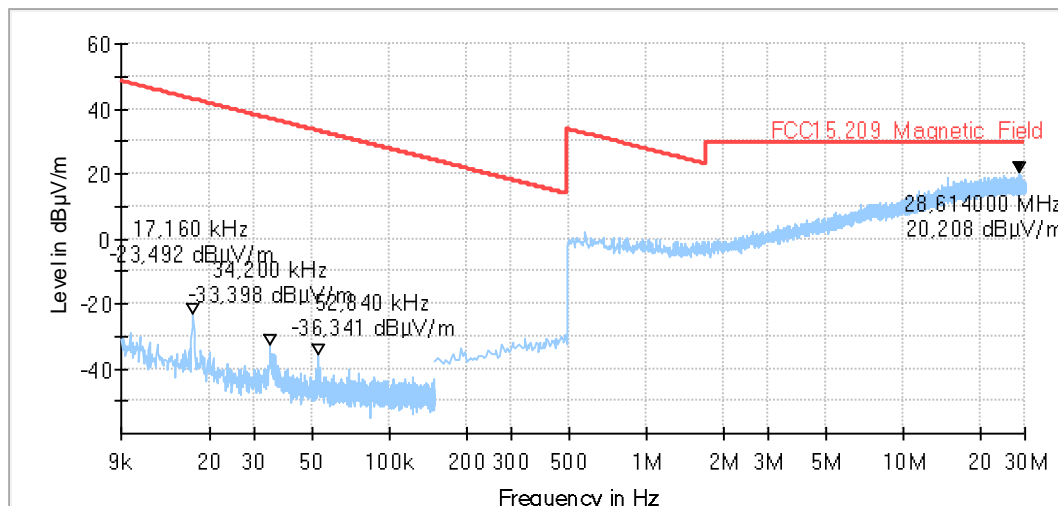
Common Information

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:	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 ch42
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



2.06b_c-mode_VHT-MCS0_ch42

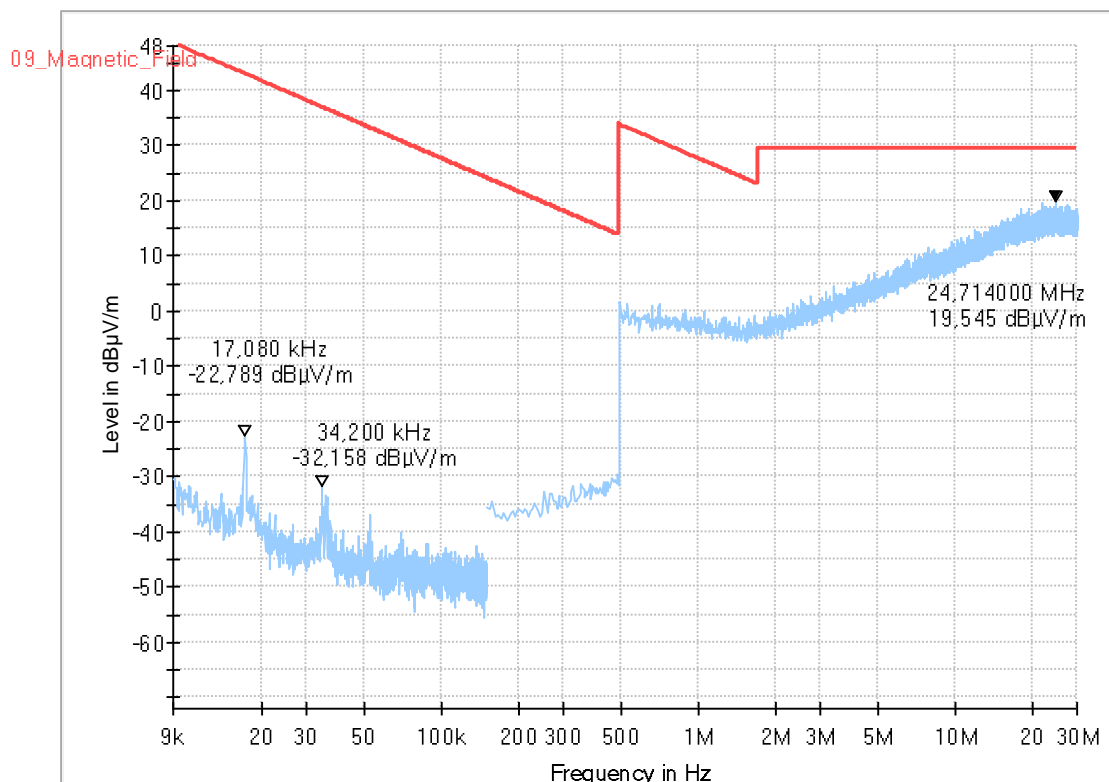
Common Information

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:	RI
Operating Mode:	ac-mode VHT-MCS0 ch42 standing PWR10
Environmental Conditions:	Humidity : 46% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



3.01a_a-mode_6Mbps_ch157

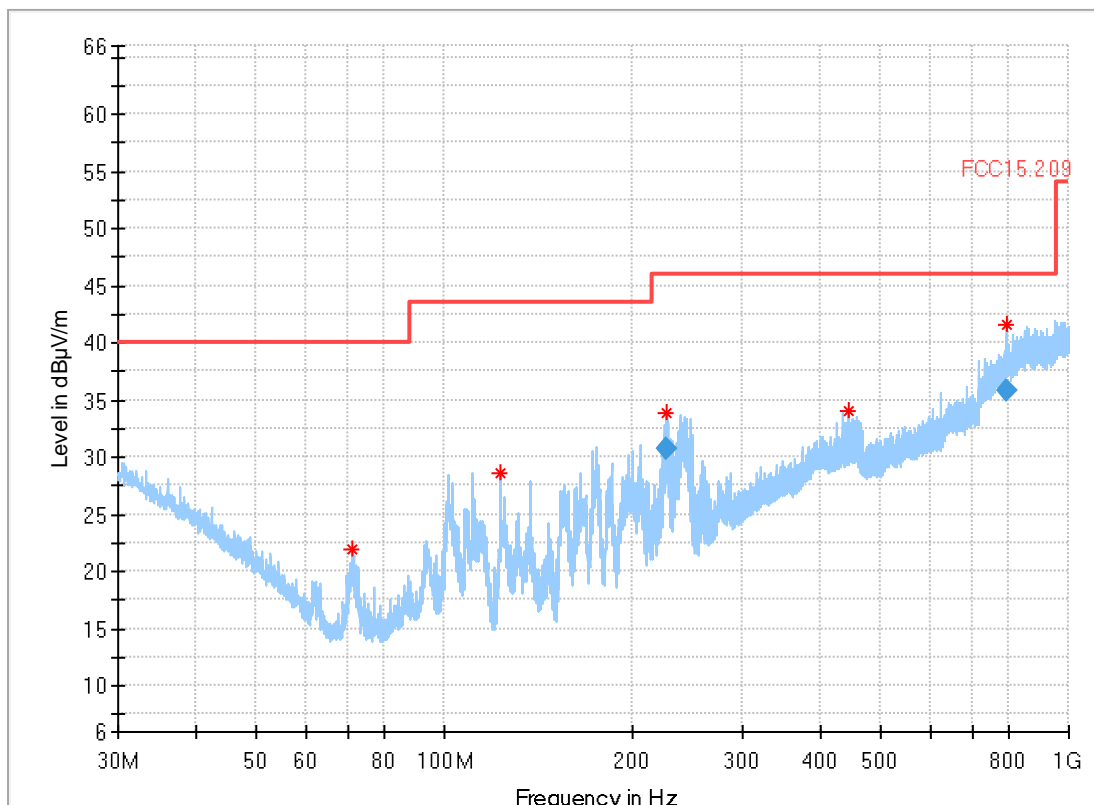
Common Information

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
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 μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
227.224000	30.68	46.00	15.32	120.000	120.0	H	29.0	12.7
794.768000	35.90	46.00	10.10	120.000	360.0	V	158.0	25.2

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
71.120000	21.88	40.00	18.12	---	---	182.0	H	180.0	6.6
123.080000	28.58	43.50	14.92	---	---	105.0	V	270.0	8.1
227.224000	33.96	46.00	12.04	---	---	120.0	H	30.0	12.7
444.400000	34.12	46.00	11.88	---	---	105.0	H	180.0	19.4
794.768000	41.56	46.00	4.44	---	---	360.0	V	159.0	25.2

3.01b_a-mode_6MBps_ch157

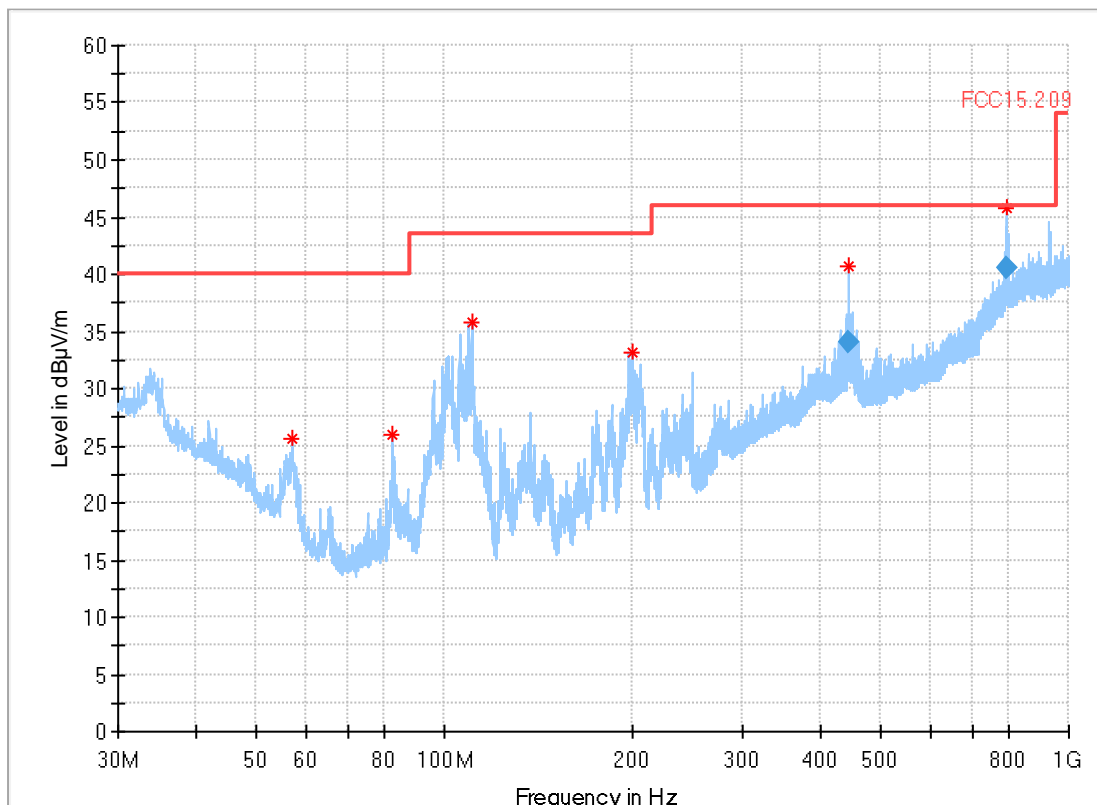
Common Information

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 peak at 794 MHz is known external disturbance and does not come from EUT.

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
445.144000	34.02	46.00	11.98	120.000	198.0	H	174.0	19.4
794.756000	40.53	46.00	5.47	120.000	267.0	H	51.0	25.2

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.120000	25.58	40.00	14.42	---	---	105.0	V	180.0	10.2
82.320000	25.93	40.00	14.07	---	---	182.0	H	180.0	7.4
110.520000	35.75	43.50	7.75	---	---	105.0	V	270.0	8.2
199.960000	33.22	43.50	10.28	---	---	182.0	H	180.0	11.3
445.144000	40.70	46.00	5.30	---	---	198.0	H	175.0	19.4
794.756000	45.76	46.00	0.24	---	---	267.0	H	52.0	25.2

3.02a_n-mode_MCS0_ch151

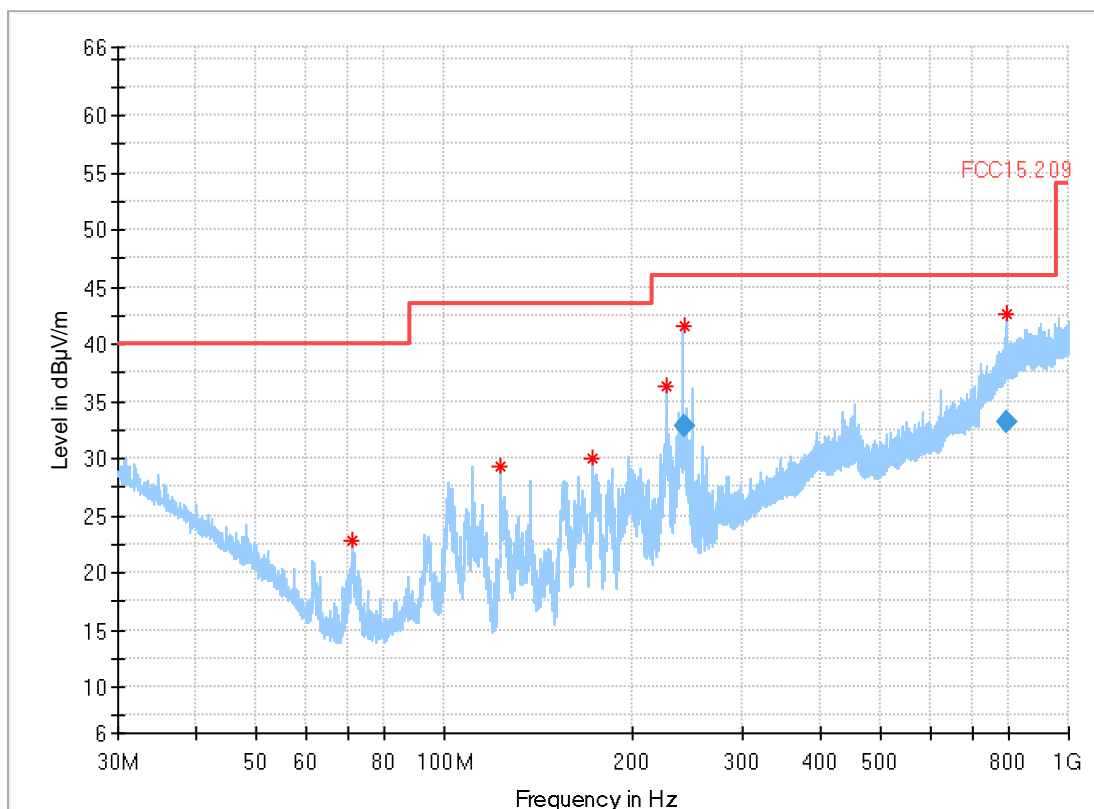
Common Information

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 794.756 MHz is known external disturbance and does not come from EUT.

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
241.456000	32.84	46.00	13.16	120.000	131.0	H	347.0	13.1
794.712000	33.23	46.00	12.77	120.000	200.0	V	44.0	25.2

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
71.280000	22.81	40.00	17.19	---	---	182.0	H	180.0	6.6
123.080000	29.27	43.50	14.23	---	---	105.0	V	270.0	8.1
173.160000	30.04	43.50	13.46	---	---	182.0	H	270.0	10.4
227.080000	36.38	46.00	9.62	---	---	105.0	H	0.0	12.7
241.456000	41.59	46.00	4.41	---	---	131.0	H	348.0	13.1
794.712000	42.72	46.00	3.28	---	---	200.0	V	45.0	25.2

3.02b_n-mode_MCS0_ch151

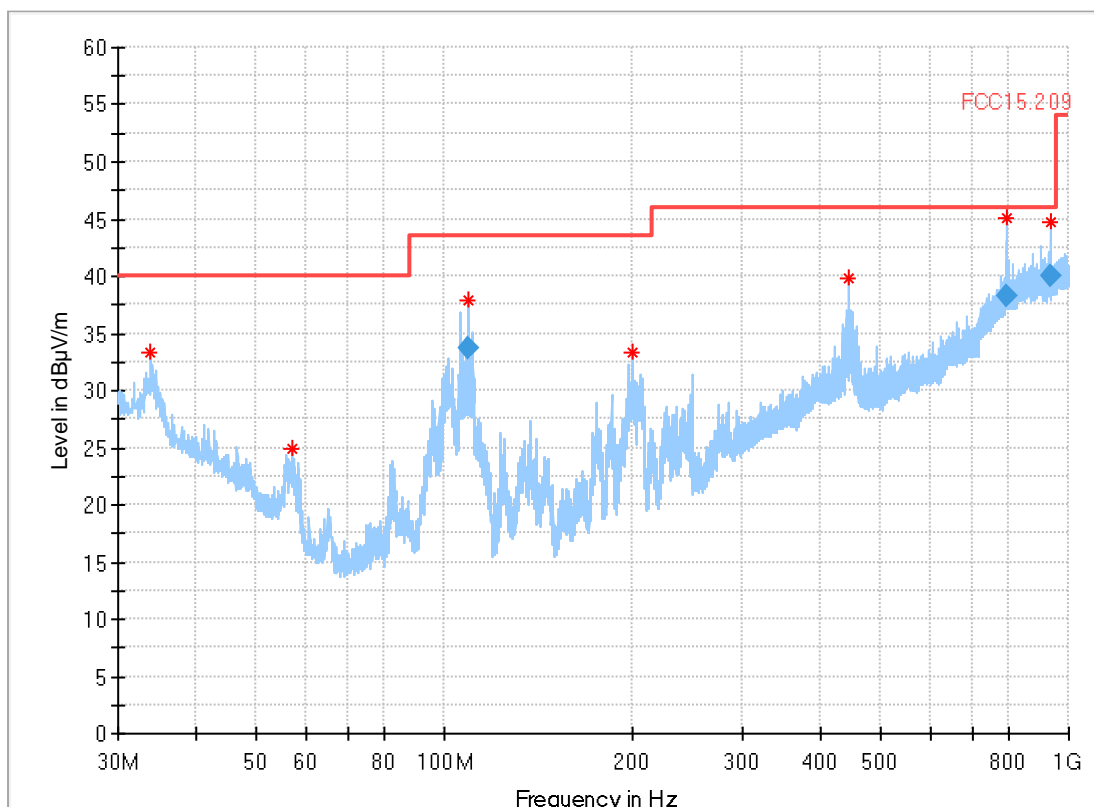
Common Information

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 peaks at 794 MHz and 933 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)
109.360000	33.66	43.50	9.84	120.000	118.0	V	255.0	8.2
794.708000	38.17	46.00	7.83	120.000	360.0	V	163.0	25.2
933.428000	39.95	46.00	6.05	120.000	287.0	H	10.0	26.9

Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.880000	33.25	40.00	6.75	---	---	182.0	H	270.0	19.7
57.040000	24.87	40.00	15.13	---	---	182.0	V	180.0	10.2
109.360000	37.81	43.50	5.69	---	---	118.0	V	256.0	8.2
199.960000	33.38	43.50	10.12	---	---	182.0	H	180.0	11.3
445.240000	39.83	46.00	6.17	---	---	182.0	H	180.0	19.4
794.708000	45.05	46.00	0.95	---	---	360.0	V	164.0	25.2
933.428000	44.78	46.00	1.22	---	---	287.0	H	11.0	26.9

3.03a_ac-mode_VHT-MCS0_ch155

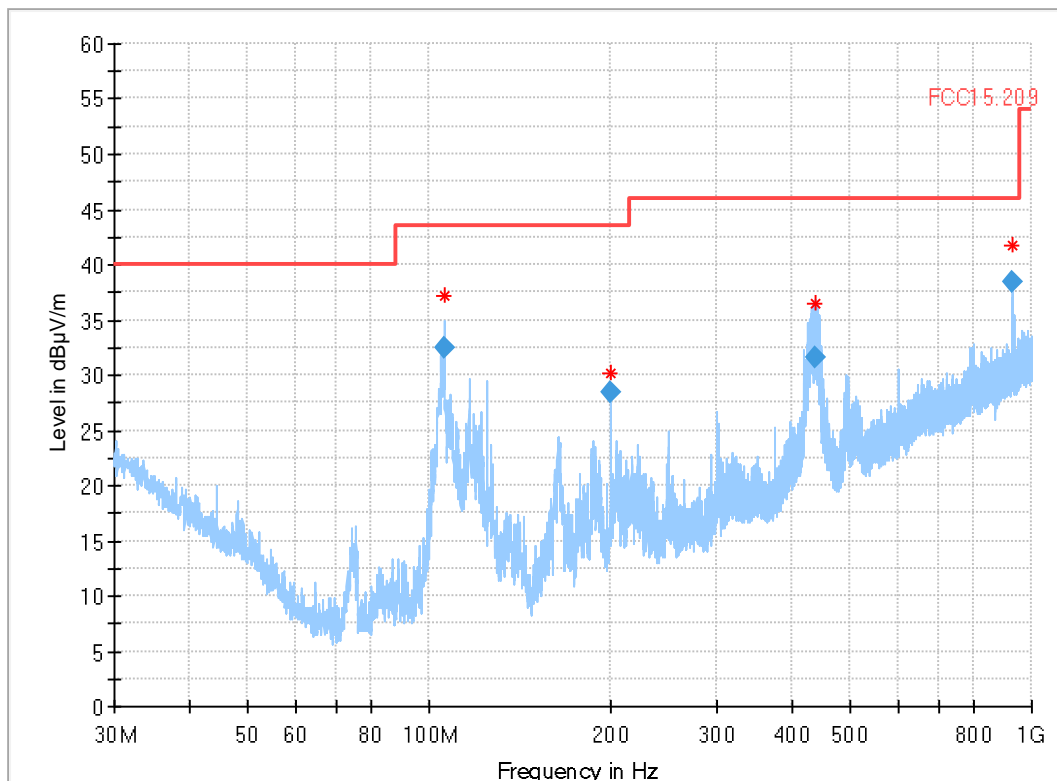
Common Information

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 μ V/m)	Limit (dB μ V/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth (h)	Corr. (dB/m)
106.050000	32.49	43.50	11.01	1000.0	120.000	279.0	H	160.0	8.1
199.980000	28.38	43.50	15.12	1000.0	120.000	150.0	H	70.0	11.3
438.022000	31.60	46.00	14.40	1000.0	120.000	179.0	H	106.0	19.4
928.400000	38.42	46.00	7.58	1000.0	120.000	242.0	H	170.0	27.0

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

Frequency (MHz)	Comment
106.050000	19:12:42 - 13.05.2020
199.980000	19:02:52 - 13.05.2020
438.022000	19:07:51 - 13.05.2020
928.400000	19:18:04 - 13.05.2020

3.03b_ac-mode_VHT-MCS0_ch155

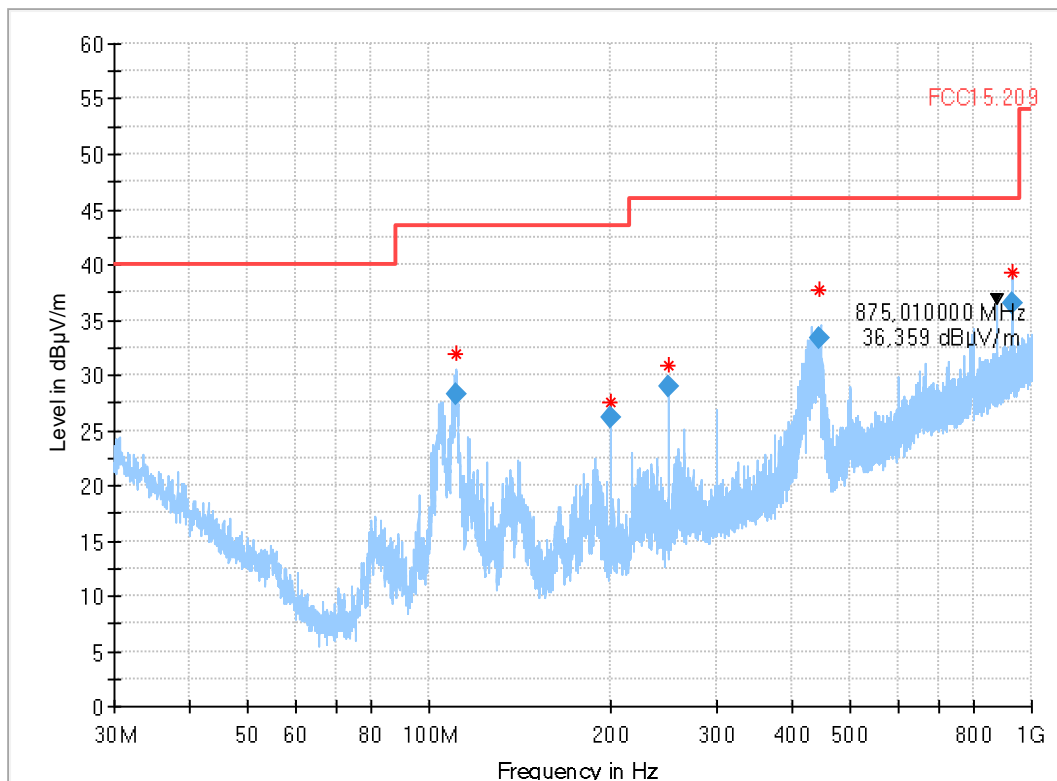
Common Information

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	Pol	Azimuth	Corr. (dB/m)
110.518000	28.17	43.50	15.33	1000.0	120.000	290.0	H	4.0	8.2
199.984000	26.10	43.50	17.40	1000.0	120.000	135.0	H	181.0	11.3
249.978000	28.89	46.00	17.11	1000.0	120.000	105.0	H	69.0	13.0
445.560000	33.37	46.00	12.63	1000.0	120.000	126.0	H	152.0	19.4
928.328000	36.48	46.00	9.52	1000.0	120.000	336.0	V	118.0	27.0

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

Frequency (MHz)	Comment
110.518000	18:33:20 - 13.05.2020
199.984000	18:23:31 - 13.05.2020
249.978000	18:18:40 - 13.05.2020
445.560000	18:28:19 - 13.05.2020
928.328000	18:38:50 - 13.05.2020

3.04a_a-mode_6MBps_ch036

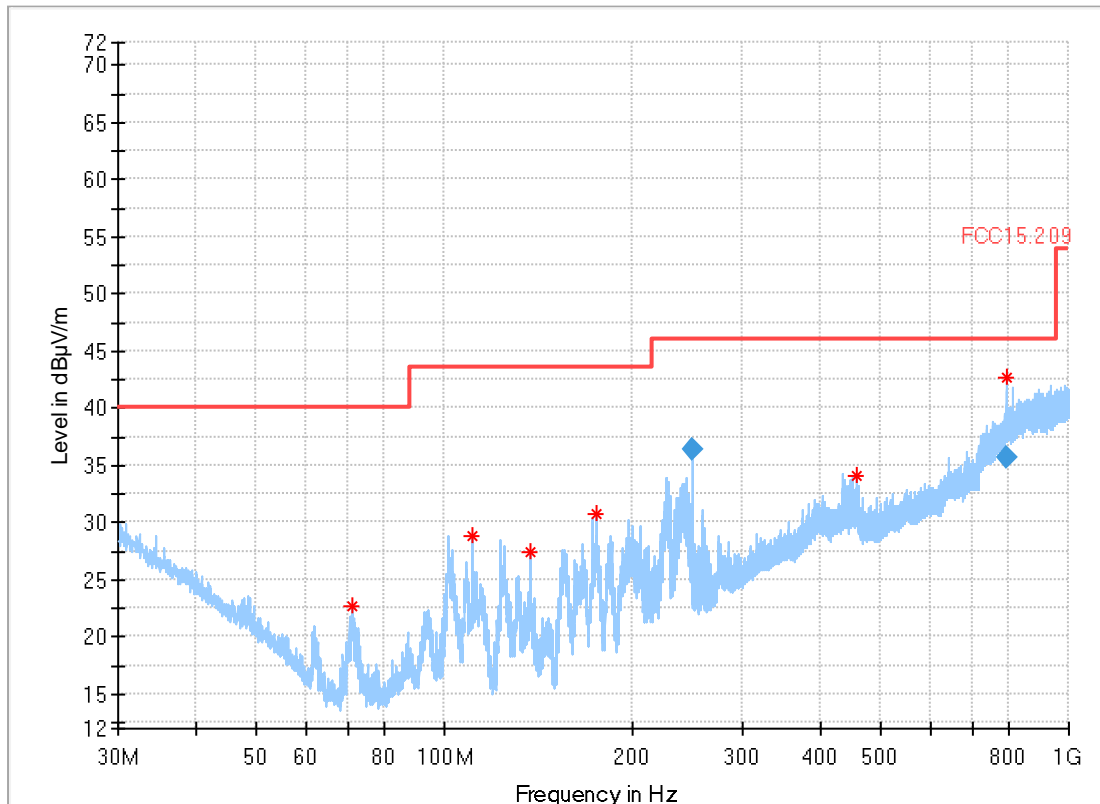
Common Information

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 (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
249.996000	36.42	46.00	9.58	120.000	105.0	H	246.0	13.0
794.720000	35.76	46.00	10.24	120.000	342.0	V	105.0	25.2

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
71.320000	22.73	40.00	17.27	---	---	182.0	H	0.0	6.6
111.120000	28.81	43.50	14.69	---	---	182.0	H	90.0	8.2
137.280000	27.48	43.50	16.02	---	---	182.0	H	90.0	9.4
175.000000	30.83	43.50	12.67	---	---	182.0	H	270.0	10.4
457.200000	34.07	46.00	11.93	---	---	182.0	H	180.0	19.6
794.720000	42.74	46.00	3.26	---	---	342.0	V	106.0	25.2

3.04b_a-mode_6MBps_ch036

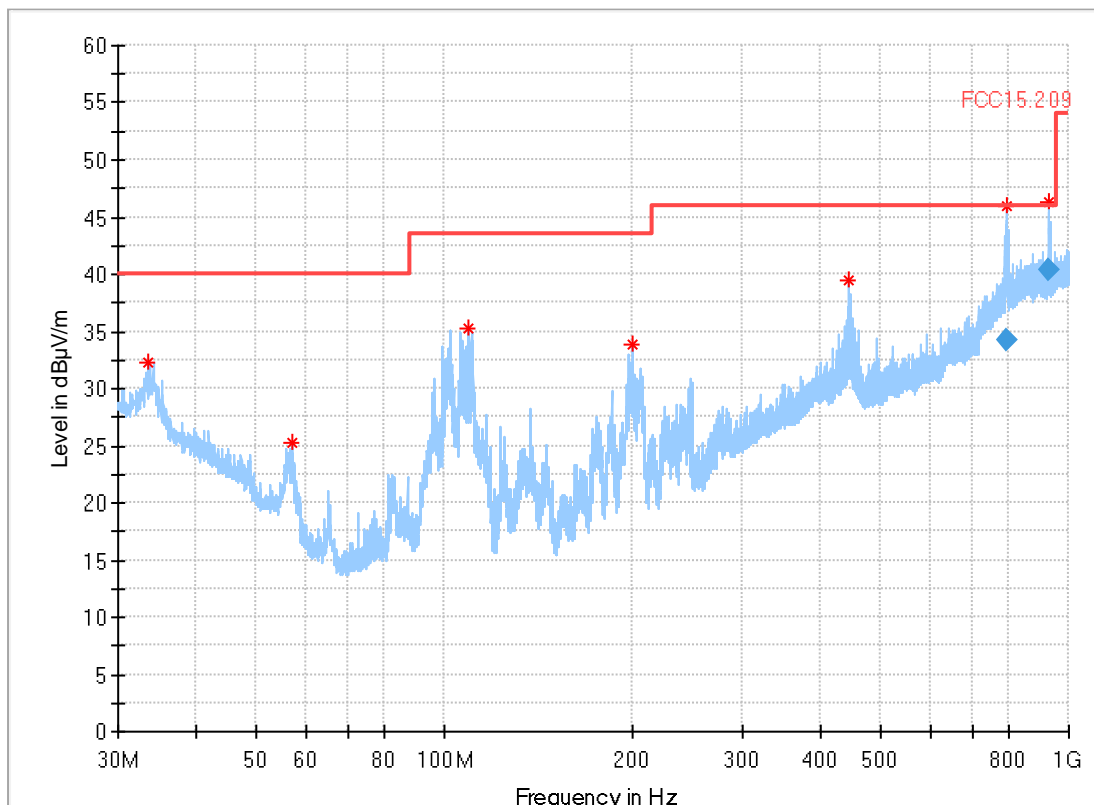
Common Information

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 peaks at 794 MHz and 927 MHz are known external disturbances and do not come from EUT.

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
794.444000	34.19	46.00	11.81	120.000	218.0	V	176.0	25.2
927.228000	40.32	46.00	5.68	120.000	363.0	H	326.0	27.0

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.600000	32.26	40.00	7.74	---	---	105.0	H	270.0	19.8
56.960000	25.25	40.00	14.75	---	---	182.0	V	270.0	10.3
109.320000	35.32	43.50	8.19	---	---	105.0	V	270.0	8.2
199.960000	33.78	43.50	9.72	---	---	182.0	H	180.0	11.3
445.240000	39.41	46.00	6.59	---	---	182.0	H	180.0	19.4
794.444000	45.93	46.00	0.07	---	---	218.0	V	177.0	25.2
927.228000	46.26	46.00	-0.26	---	---	363.0	H	327.0	27.0

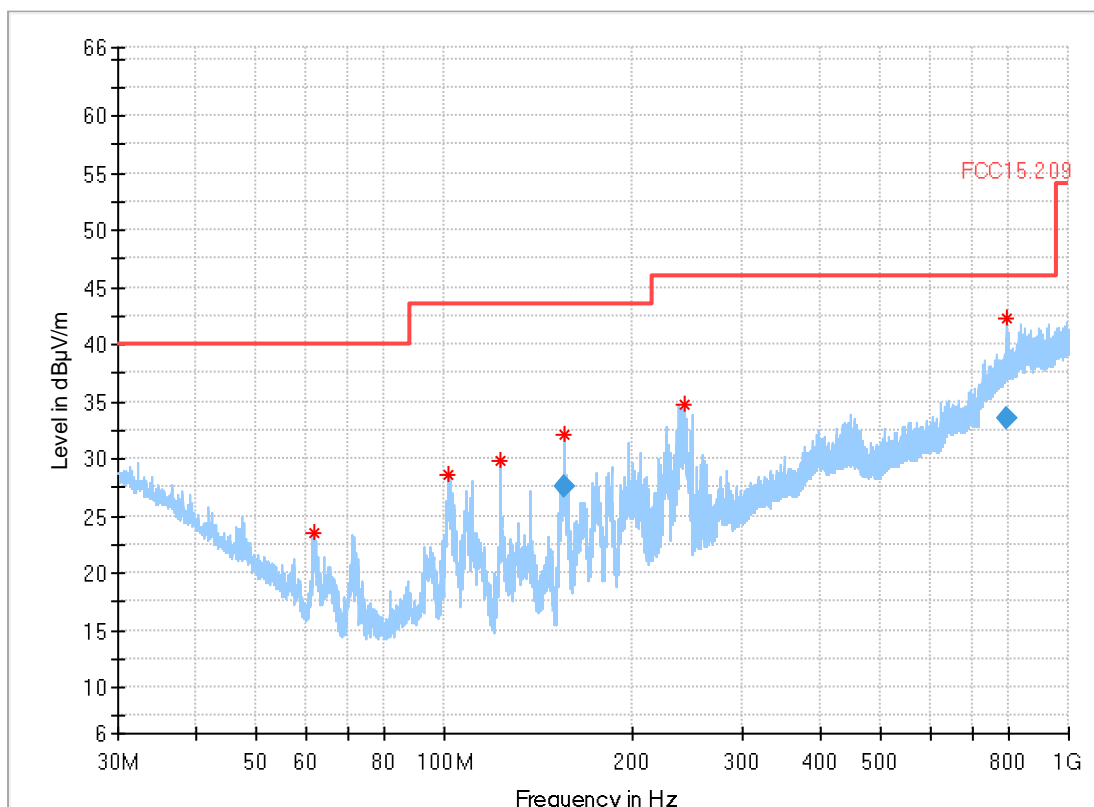
3.05a_n-mode_MCS0_ch038

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 794 MHz is known external disturbance and does not come from EUT.

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
155.292000	27.56	43.50	15.94	120.000	134.0	H	102.0	8.9
794.636000	33.54	46.00	12.46	120.000	282.0	V	70.0	25.2

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.720000	23.62	40.00	16.38	---	---	182.0	V	180.0	8.2
101.480000	28.58	43.50	14.92	---	---	182.0	H	0.0	8.1
123.080000	29.82	43.50	13.68	---	---	182.0	H	270.0	8.1
155.292000	32.21	43.50	11.29	---	---	134.0	H	103.0	8.9
241.960000	34.78	46.00	11.22	---	---	105.0	H	0.0	13.1
794.636000	42.32	46.00	3.68	---	---	282.0	V	71.0	25.2

3.05b_n-mode_MCS0_ch038

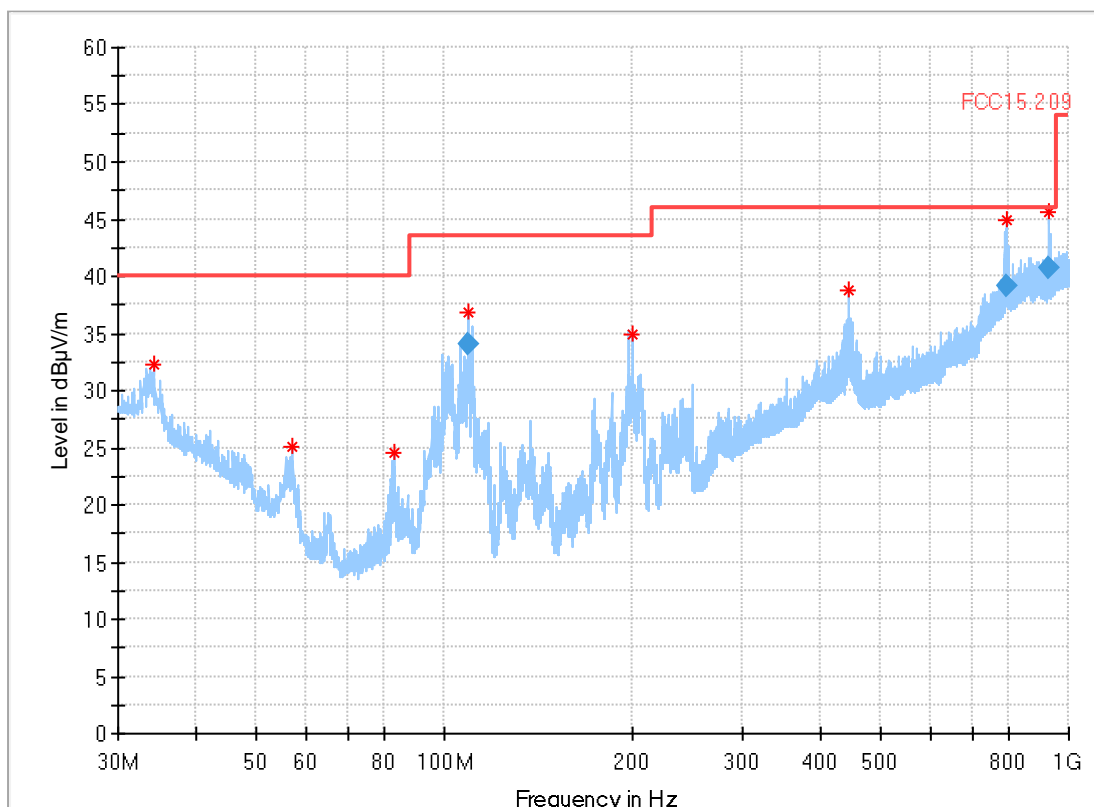
Common Information

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 peaks at 794 and 927 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)
109.360000	34.02	43.50	9.48	120.000	109.0	V	251.0	8.2
794.420000	39.08	46.00	6.92	120.000	333.0	V	179.0	25.2
927.240000	40.68	46.00	5.32	120.000	276.0	H	208.0	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)
34.200000	32.31	40.00	7.69	---	---	182.0	H	270.0	19.5
56.960000	25.01	40.00	14.99	---	---	105.0	V	270.0	10.3
82.960000	24.48	40.00	15.52	---	---	182.0	H	180.0	7.5
109.360000	36.90	43.50	6.60	---	---	109.0	V	252.0	8.2
200.000000	34.90	43.50	8.60	---	---	182.0	H	180.0	11.3
445.240000	38.72	46.00	7.28	---	---	182.0	H	180.0	19.4
794.420000	45.00	46.00	1.00	---	---	333.0	V	180.0	25.2
927.240000	45.65	46.00	0.35	---	---	276.0	H	209.0	27.0

3.06a_ac-mode_VHT-MCS0_ch42

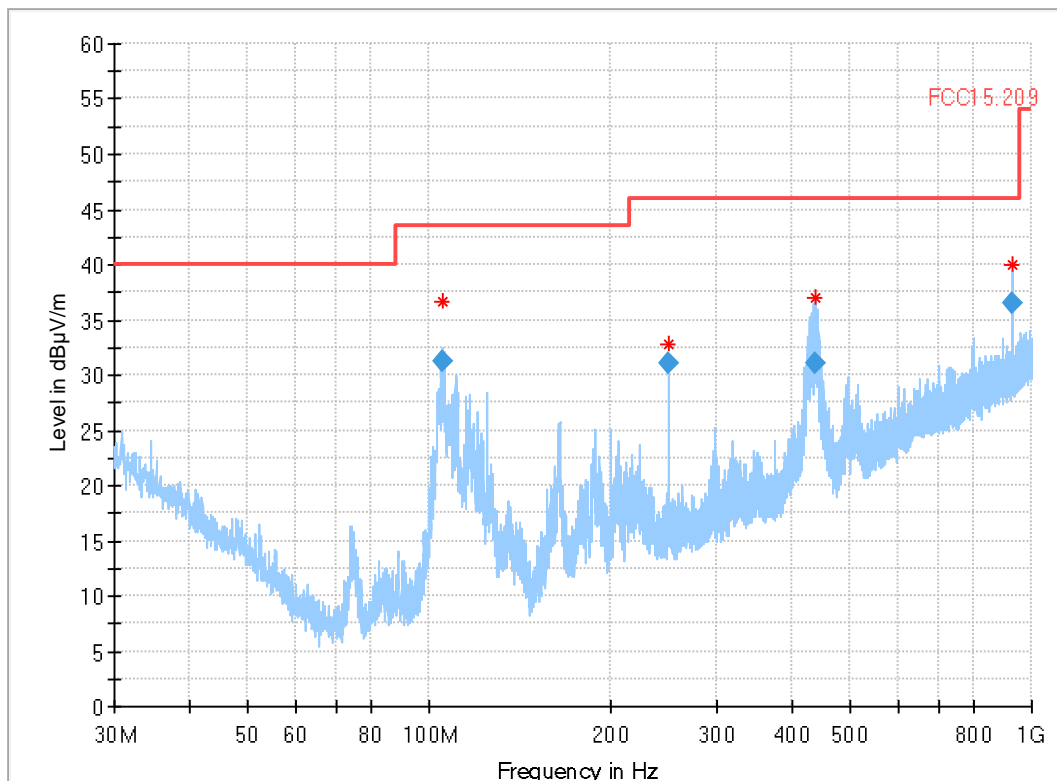
Common Information

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 μ V/m)	Limit (dB μ V/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth (h)	Corr. (dB/m)
105.420000	31.23	43.50	12.27	1000.0	120.000	280.0	H	130.0	8.1
249.958000	30.97	46.00	15.03	1000.0	120.000	114.0	H	254.0	13.0
436.922000	31.11	46.00	14.89	1000.0	120.000	178.0	H	94.0	19.4
928.380000	36.53	46.00	9.47	1000.0	120.000	230.0	H	18.0	27.0

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

Frequency (MHz)	Comment
105.420000	20:04:56 - 13.05.2020
249.958000	19:49:28 - 13.05.2020
436.922000	19:59:53 - 13.05.2020
928.380000	19:54:46 - 13.05.2020

3.06b_ac-mode_VHT-MCS0_ch42

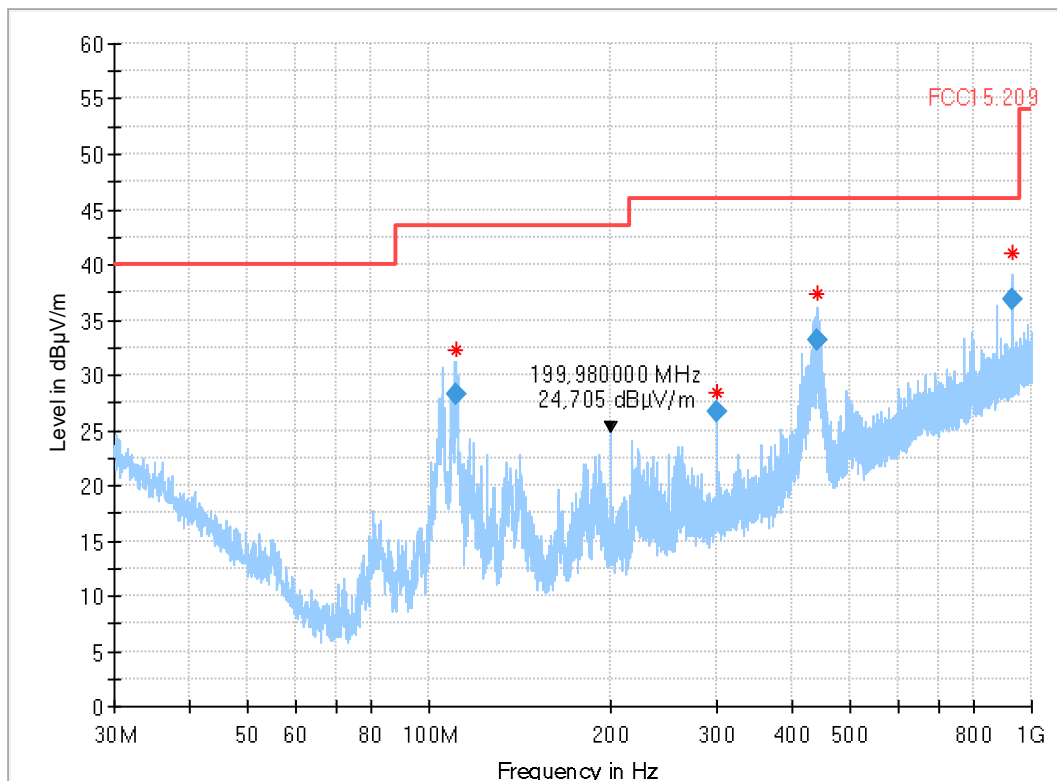
Common Information

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: 29°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)
110.428000	28.17	43.50	15.33	1000.0	120.000	298.0	H	348.0	8.2
299.974000	26.75	46.00	19.25	1000.0	120.000	105.0	H	355.0	15.1
440.144000	33.13	46.00	12.87	1000.0	120.000	105.0	V	61.0	19.4
928.408000	36.87	46.00	9.13	1000.0	120.000	121.0	V	35.0	27.0

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

Frequency (MHz)	Comment
110.428000	17:42:58 - 13.05.2020
299.974000	17:38:06 - 13.05.2020
440.144000	17:48:52 - 13.05.2020
928.408000	17:54:27 - 13.05.2020

4.01a_a-mode_6Mbps_ch157_Laying

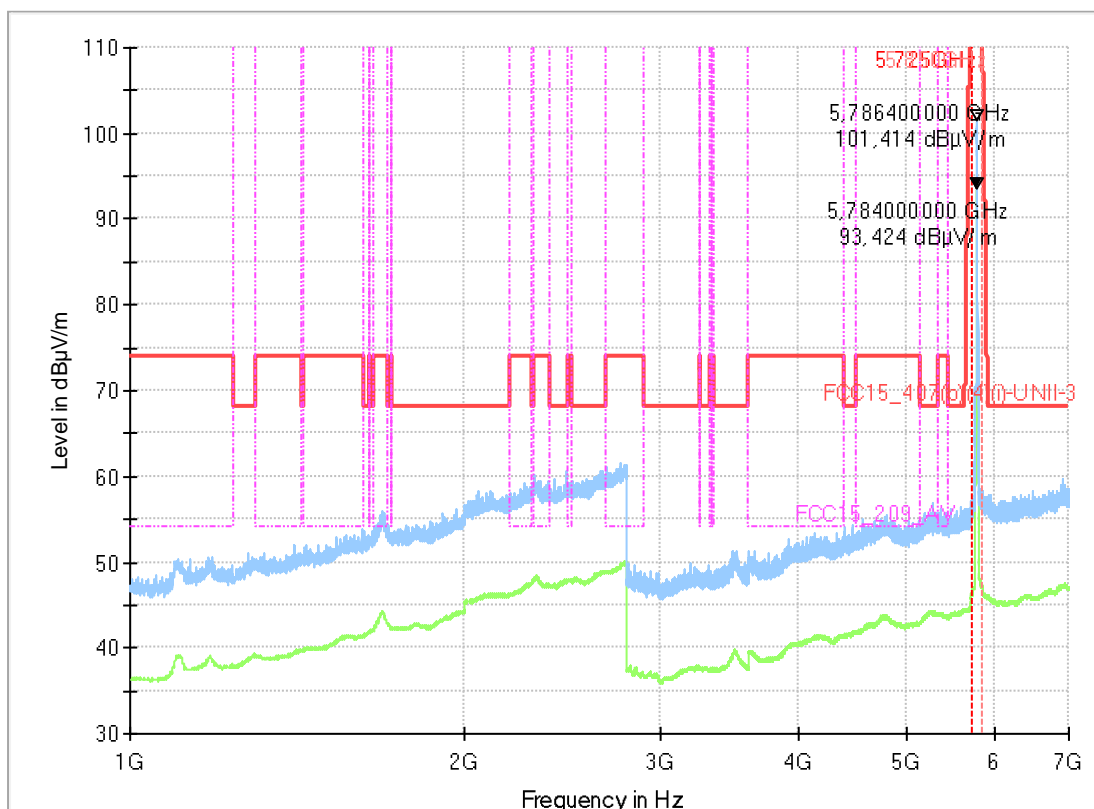
Common Information

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:	EMC32 V10.50.3
Operating Mode:	a-mode 6Mbps ch157 laying PWR15
Operator:	Ris
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.01b_a-mode_6Mbps_ch157_Standing

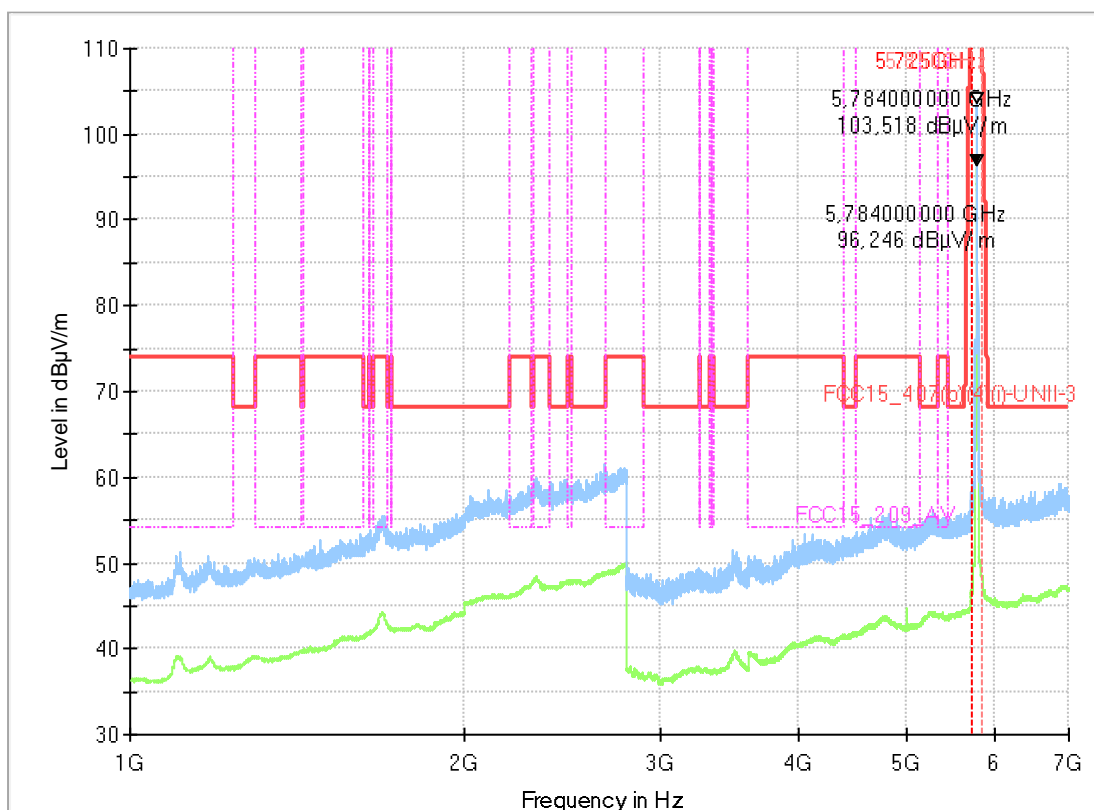
Common Information

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
Operating Mode:	a-mode 6Mbps ch157 laying PWR15
Operator:	Ris
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.01c_a-mode_6MBps_ch157

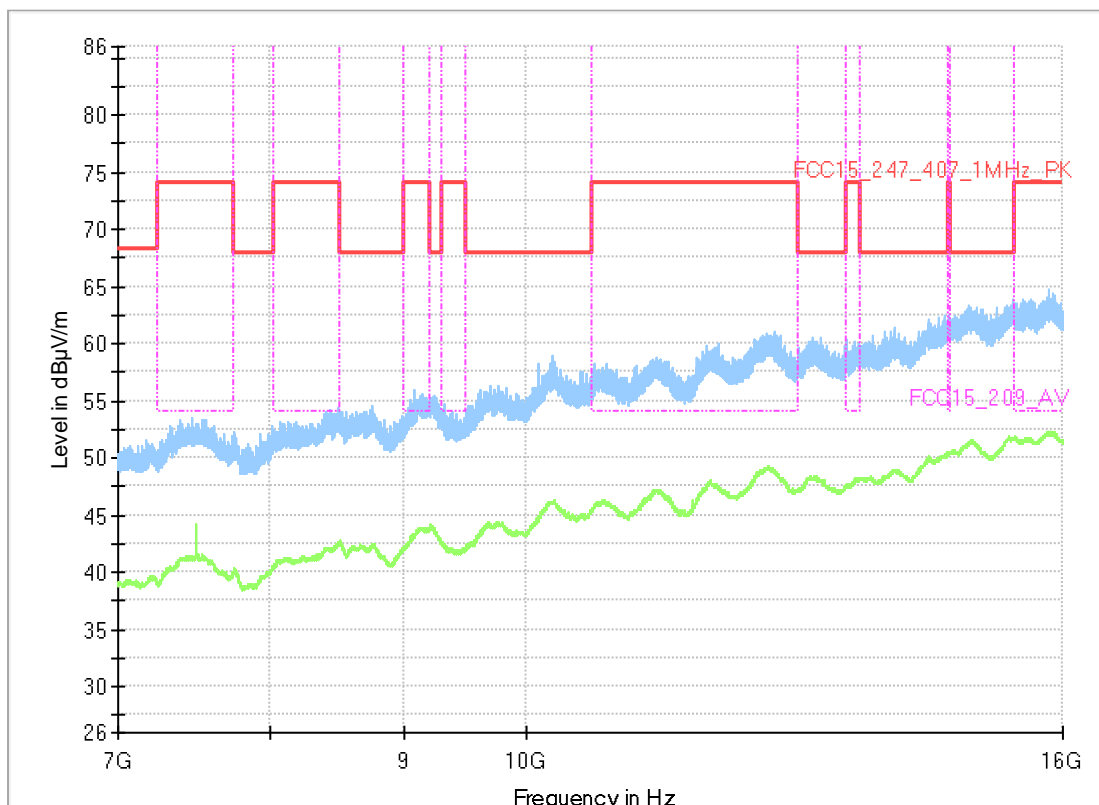
Common Information

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:	tfa
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



4.01d_a-mode_6MBps_ch157

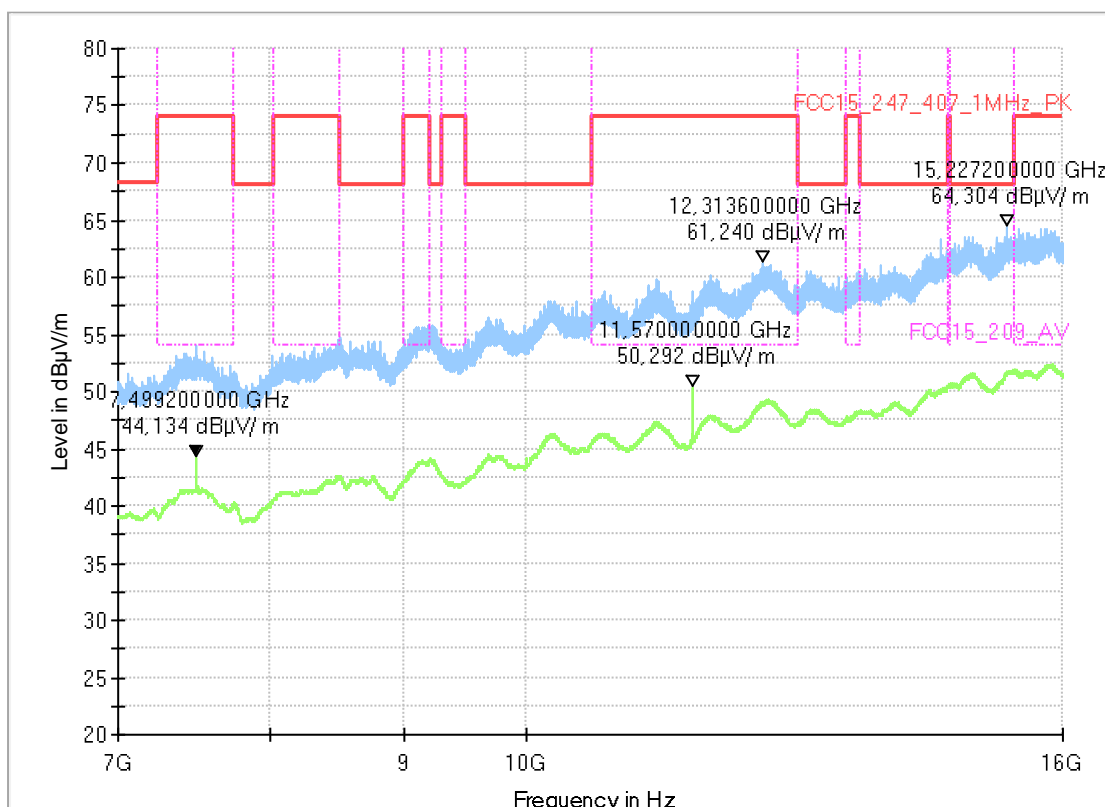
Common Information

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:	tfa
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

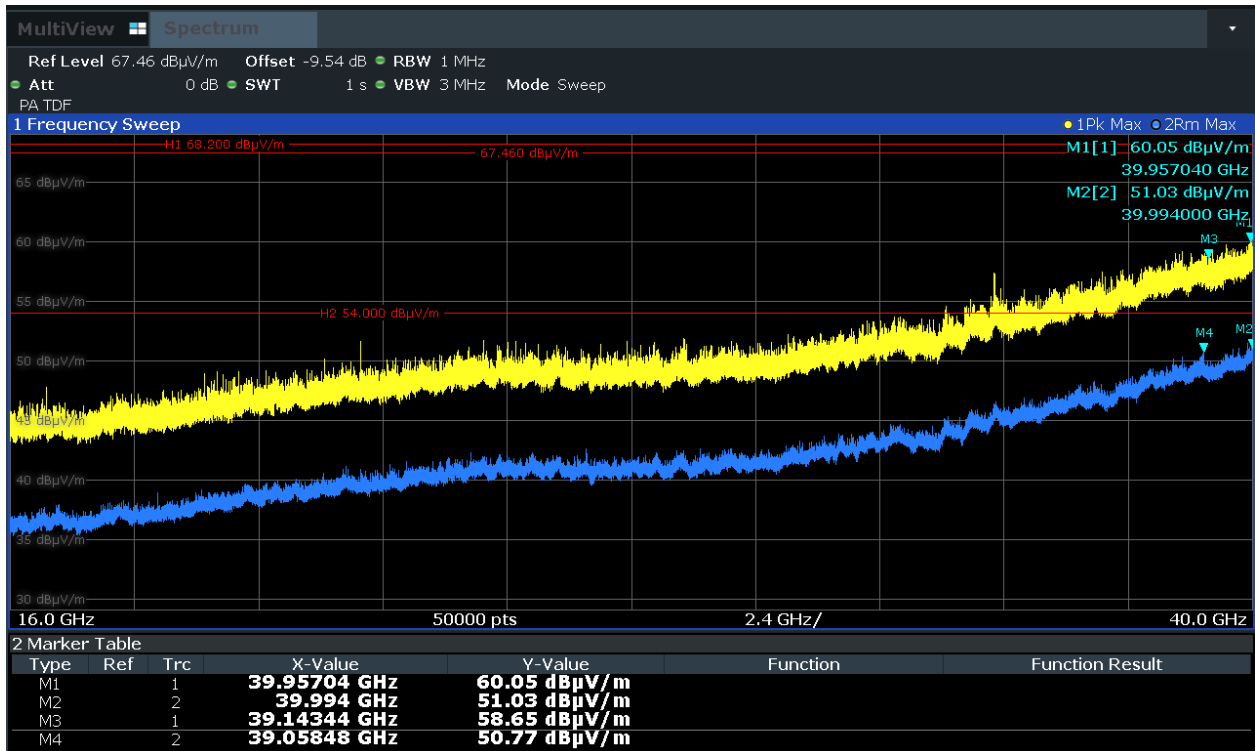
EUT Information

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

Full Spectrum



4.01e_a-mode_6Mbps_ch157



4.02a_n-mode_MCS0_ch151_Laying

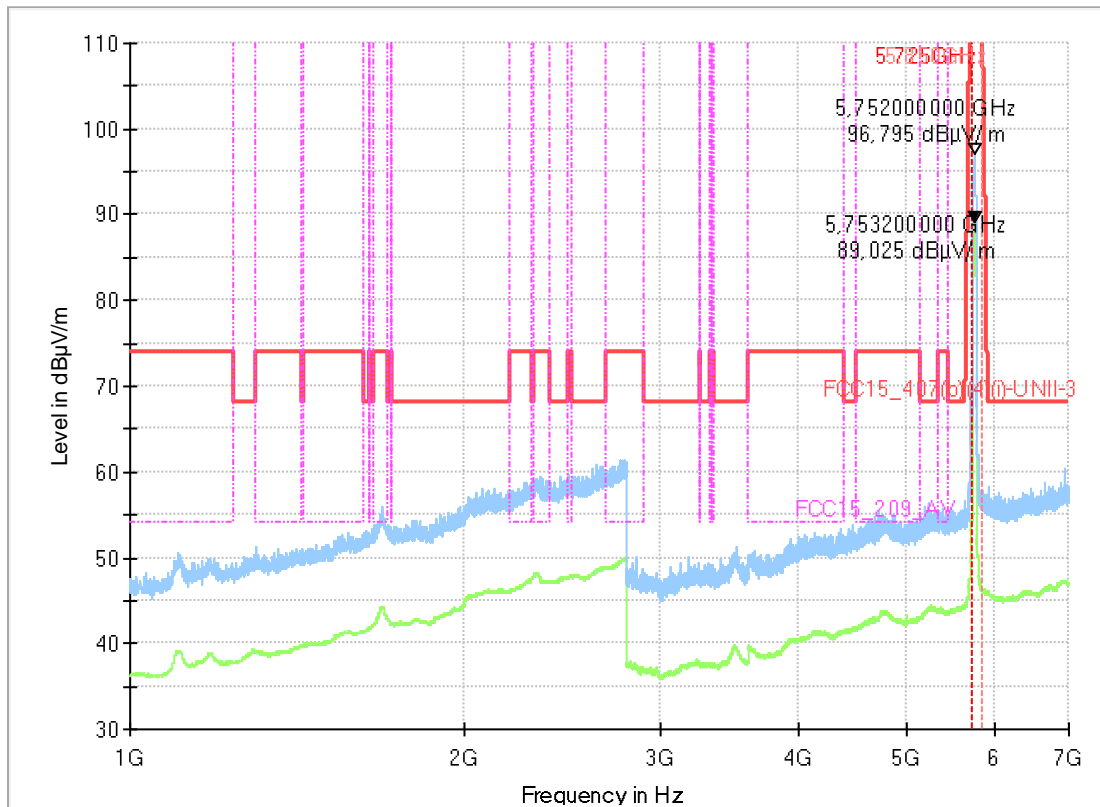
Common Information

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
Operating Mode:	n-mode HT40 MCS0 ch0151 standing PWR15
Operator:	Ris
EUT Setup:	1
Comment:	
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.02b_n-mode_MCS0_ch151_Standing

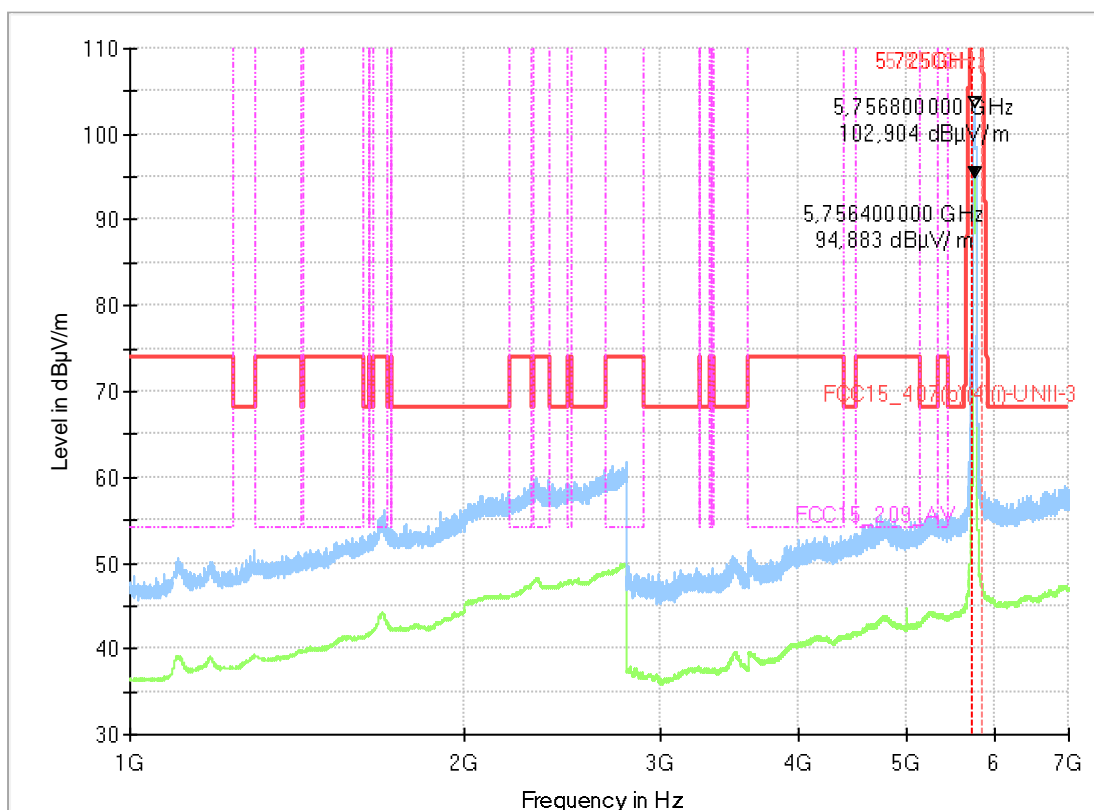
Common Information

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
 Operating Mode: n-mode | HT40 | MCS0 | ch0151 | standing | PWR15
 Operator: Ris
 EUT Setup:
 Environmental Conditions: Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.02c_n-mode_HT40_MCS0_ch151

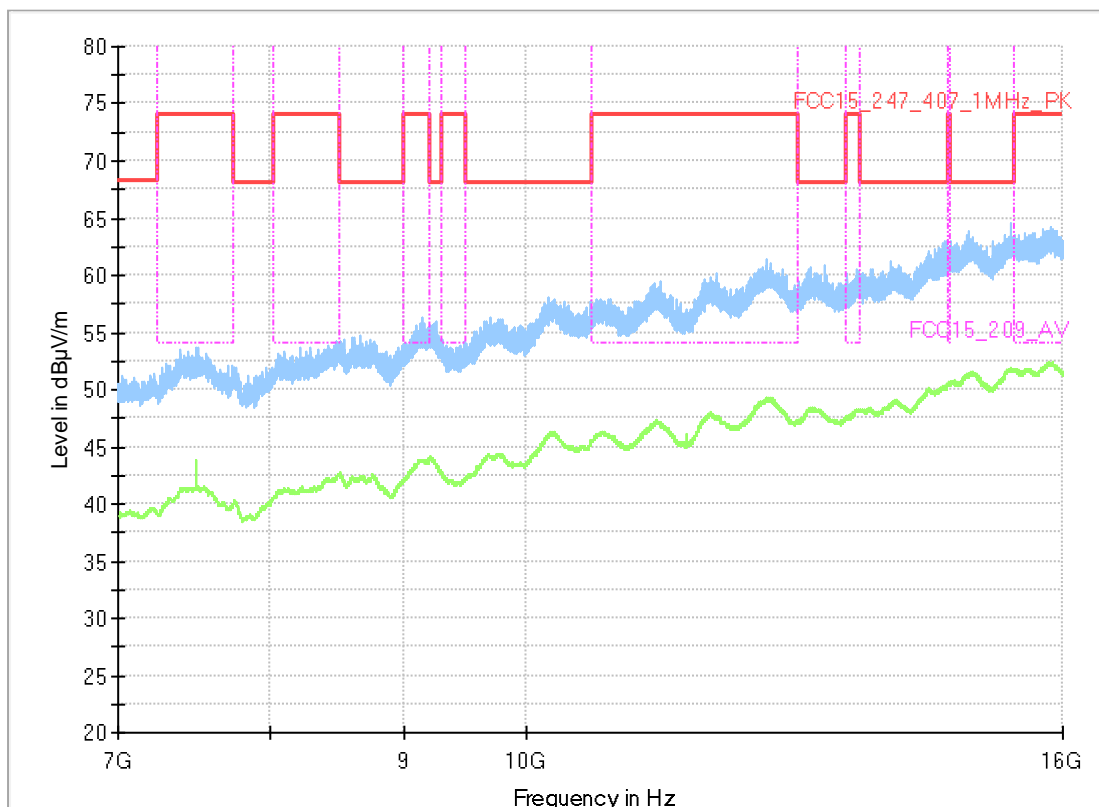
Common Information

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:	tfa
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



4.02d_n-mode_MCS0_ch151

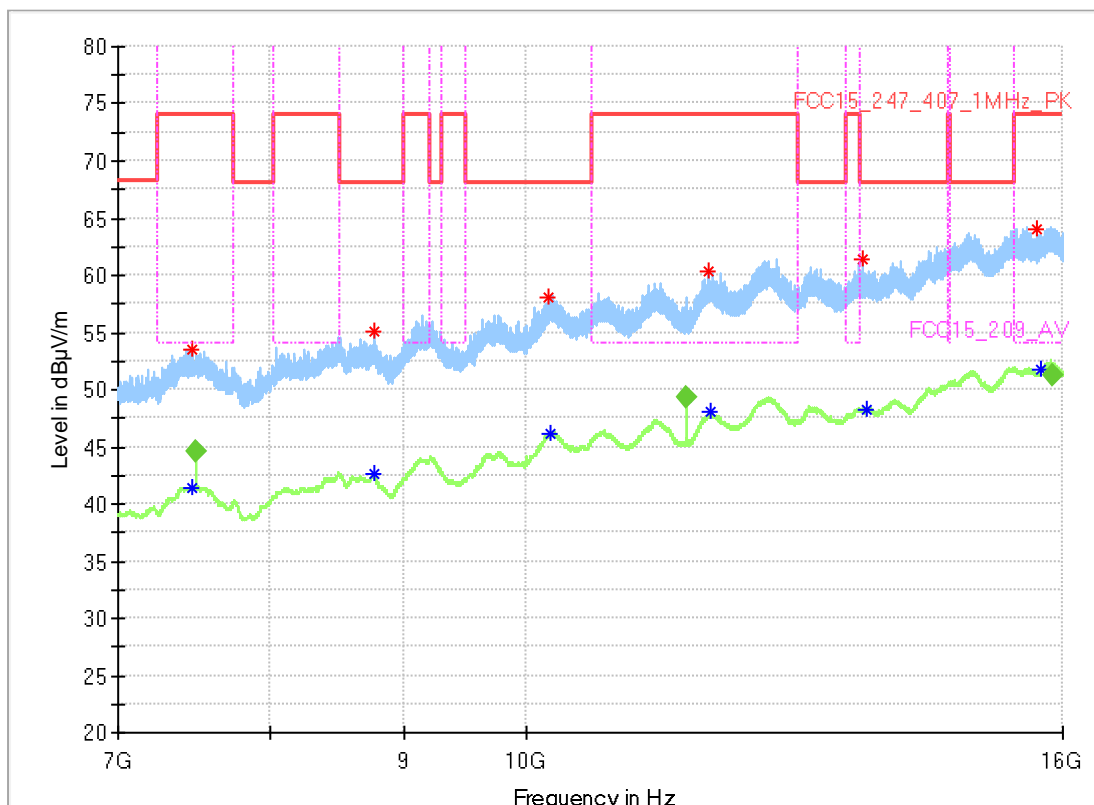
Common Information

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 standing PWR15
Operator:	tfa
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





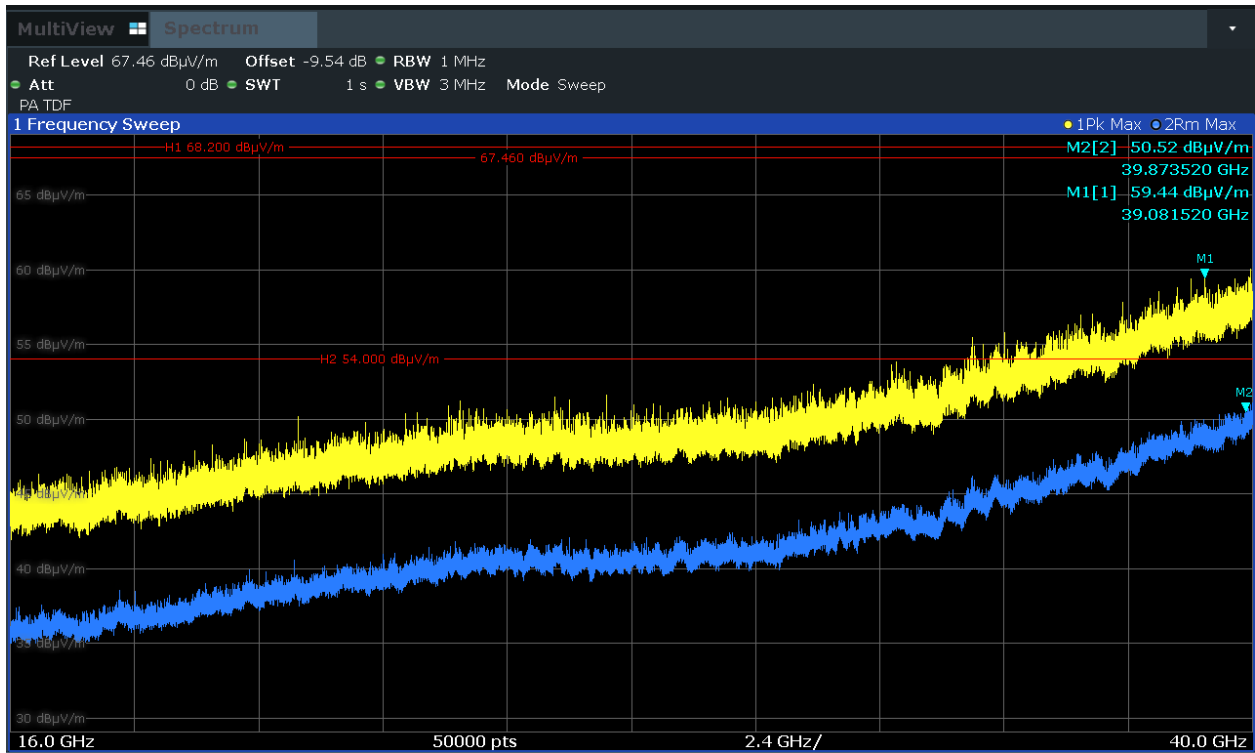
Final_Result

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)
7499.000000	---	44.51	54.00	9.49	100.0	1000.000	155.0	H	32.0	0.0	19
11509.800000	---	49.24	54.00	4.76	100.0	1000.000	155.0	H	44.0	0.0	24
15851.000000	---	51.26	54.00	2.74	100.0	1000.000	155.0	V	307.0	0.0	32

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)
7465.200000	---	41.43	54.00	12.57	---	---	155.0	V	0.0	0.0	19
7471.200000	53.51	---	74.00	20.49	---	---	155.0	H	270.0	0.0	19
7499.000000	---	44.80	54.00	9.52	---	---	155.0	H	32.0	0.0	19
8755.200000	---	42.59	150.00	107.41	---	---	155.0	H	165.0	0.0	21
8760.000000	55.05	---	68.00	12.95	---	---	155.0	V	75.0	0.0	21
10209.600000	58.04	---	68.00	9.96	---	---	155.0	V	300.0	0.0	25
10215.600000	---	46.21	150.00	103.79	---	---	155.0	H	105.0	0.0	25
11509.800000	---	49.23	54.00	4.04	---	---	155.0	H	44.0	0.0	24
11739.200000	60.42	---	74.00	13.58	---	---	155.0	H	150.0	0.0	27
11748.400000	---	48.01	54.00	5.99	---	---	155.0	H	135.0	0.0	27
13438.000000	61.46	---	68.00	6.54	---	---	155.0	V	30.0	0.0	27
13469.600000	---	48.21	150.00	101.79	---	---	155.0	H	255.0	0.0	27
15651.200000	64.10	---	74.00	9.90	---	---	155.0	H	345.0	0.0	31
15695.600000	---	51.82	54.00	2.18	---	---	155.0	V	285.0	0.0	31
15851.000000	---	51.45	54.00	1.43	---	---	155.0	V	307.0	0.0	32

4.02e_n-mode_MCS0_ch151



4.03a_ac-mode_MCS0_ch155

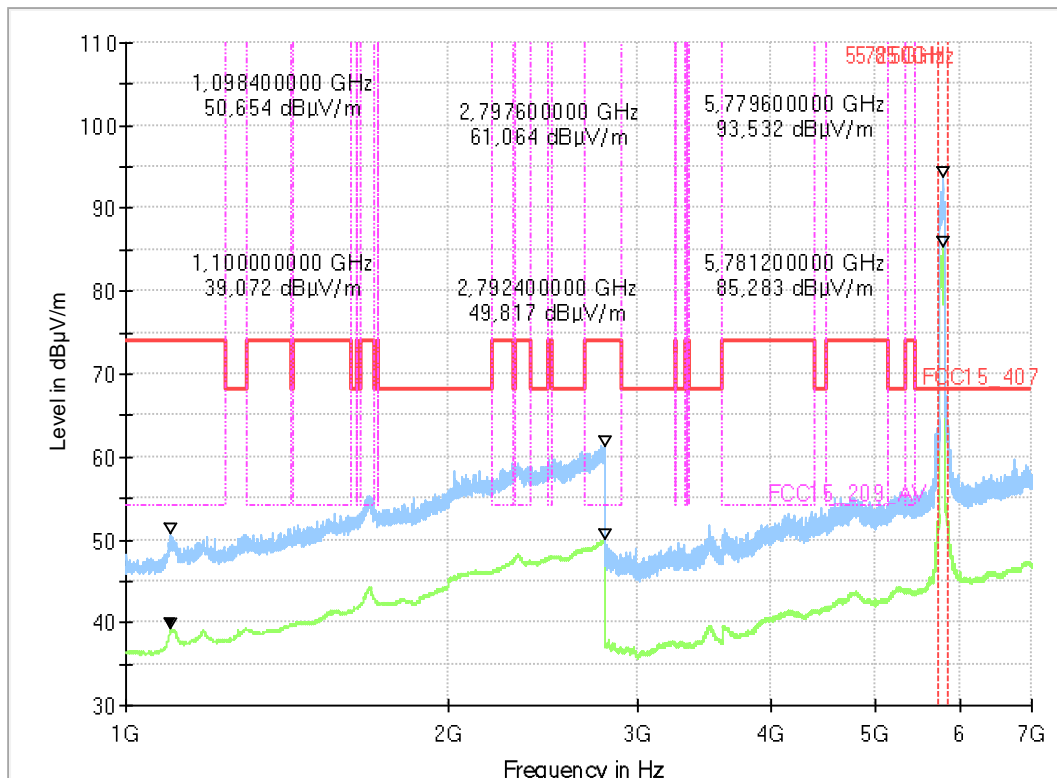
Common Information

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:	#Ver
Operating Mode:	ac-mode HT80 VHT-MCS0 ch155 laying PWR15
Operator:	TFra
EUT Setup:	1
Verdict:	Passed
Comment:	With Laptop in chamber
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)	Margi n	Meas. Time (ms)	Bandwidt h	Heigh t	Pol	Azimut h	Elevatio n
---	---	---	---	---	---	---	---		---	---

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

Frequency (MHz)	Corr. (dB/m)	Comment
---	---	

4.03b_ac-mode_MCS0_ch155

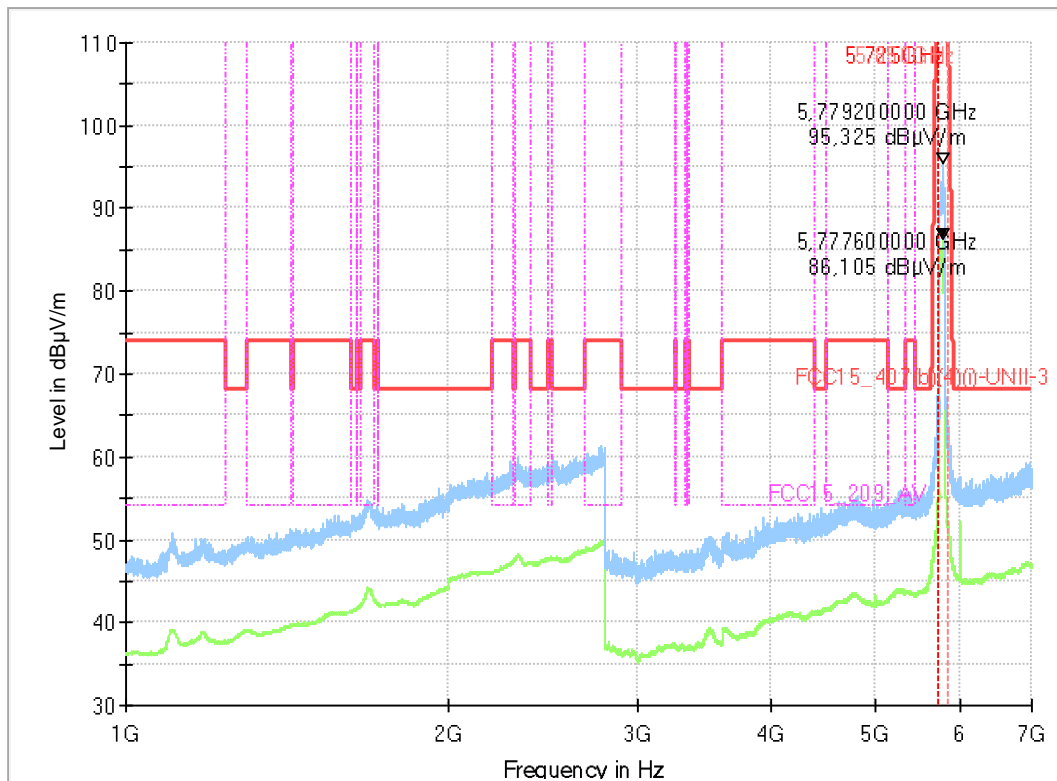
Common Information

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



4.03c_ac-mode_VHT-MCS0_ch155

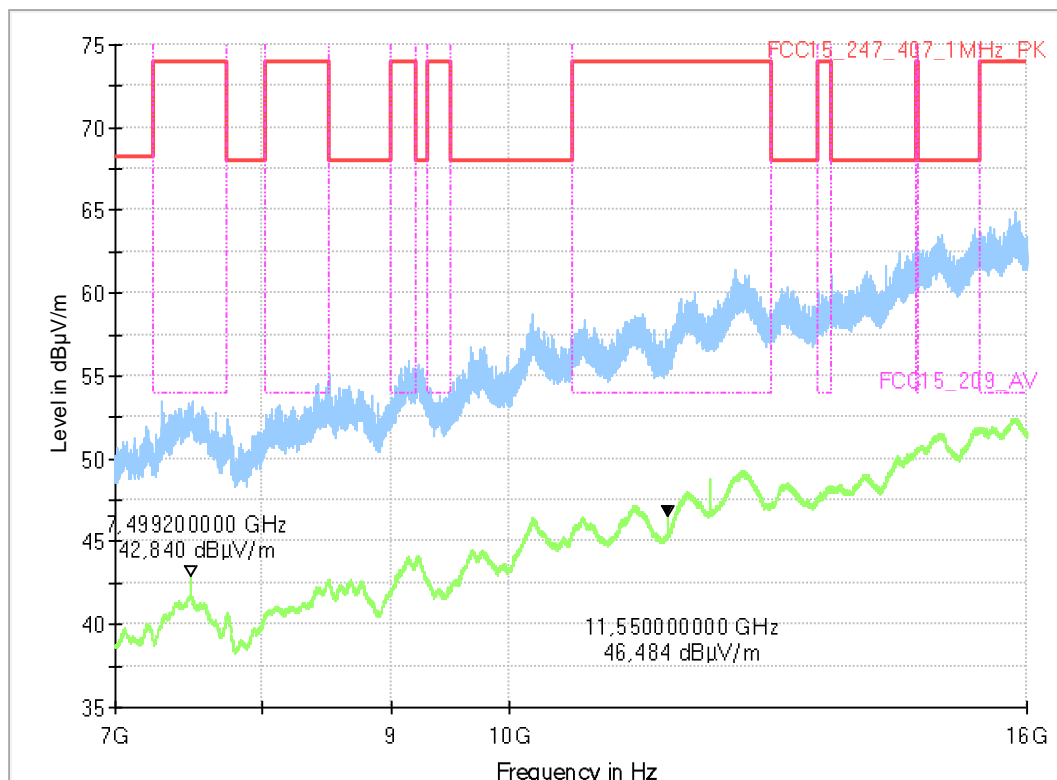
Common Information

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:	#Ver
Operating Mode:	ac-mode VHT-80 MCS0 ch0155 laying PWR 15
Operator:	PMa
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.03d_ac-mode_VHT-MCS0_ch155

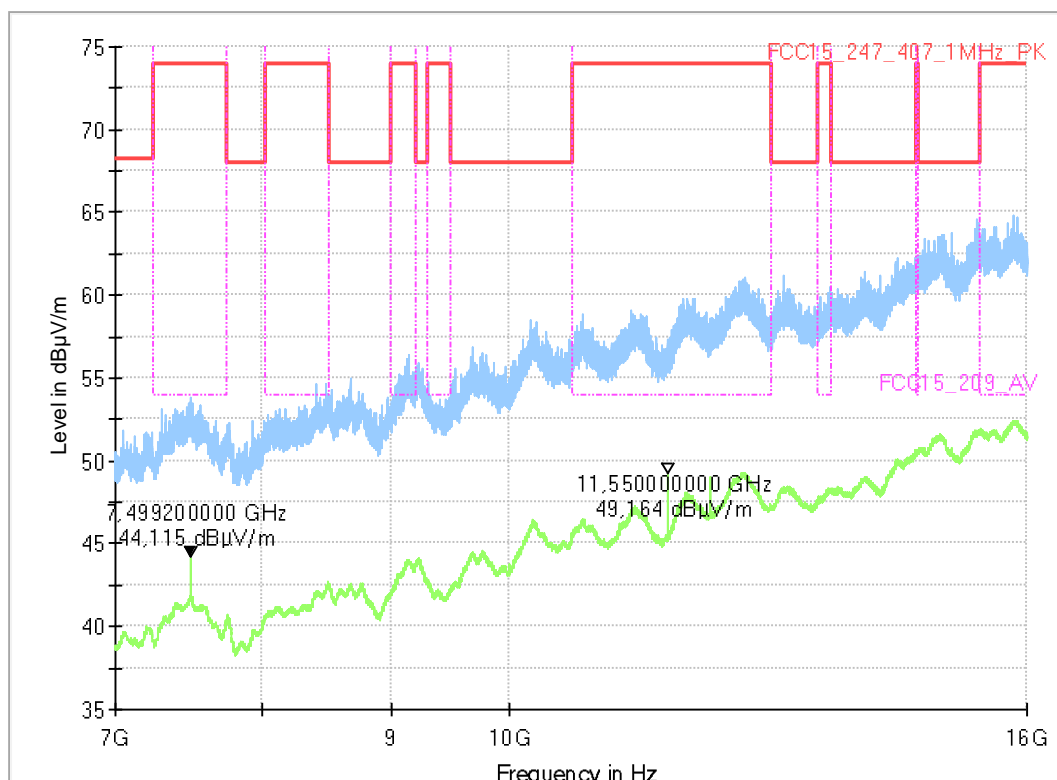
Common Information

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:	#Ver
Operating Mode:	ac-mode VHT-80 MCS0 ch0155 standing PWR 15
Operator:	PMa
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

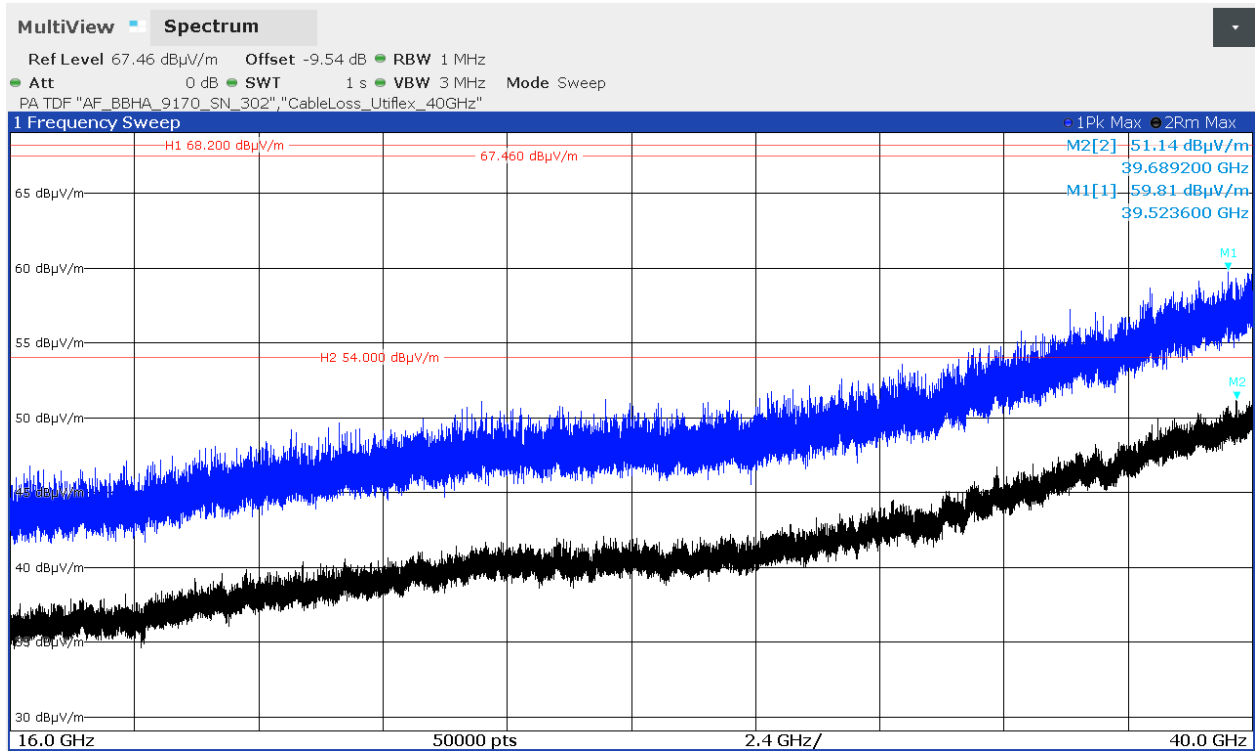
EUT Information

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

Full Spectrum



4.03e_ac-mode_VHT-MCS0_ch155



4.04a_a-mode_6Mbps_ch036_Laying

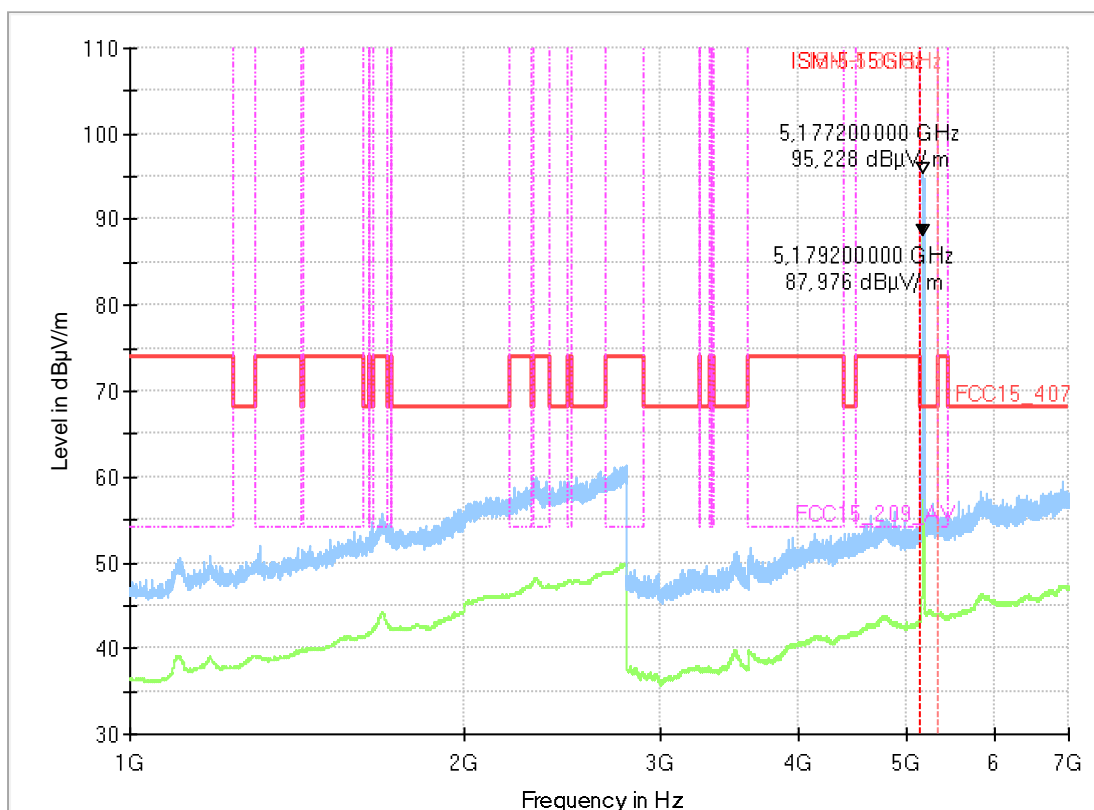
Common Information

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:	Ris
EUT Setup:	1
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.04b_a-mode_6Mbps_ch036_Standing

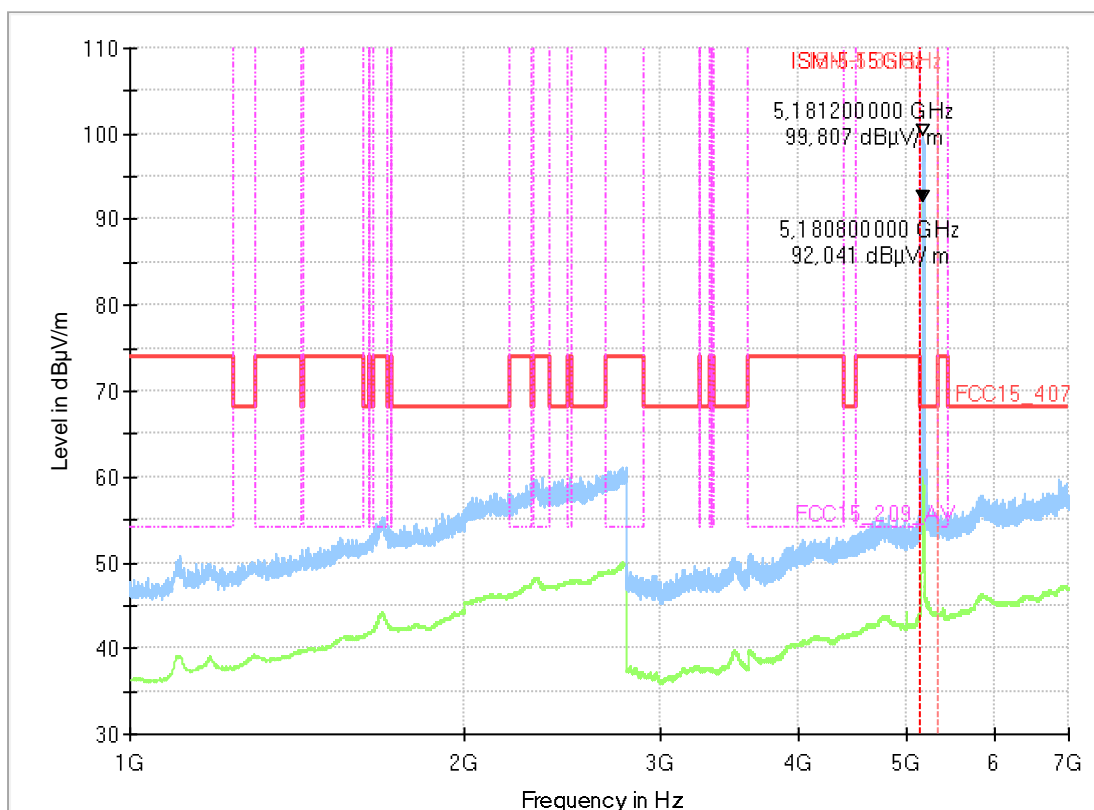
Common Information

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:	Ris
EUT Setup:	
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.04c_a-mode_6Mbps_ch036

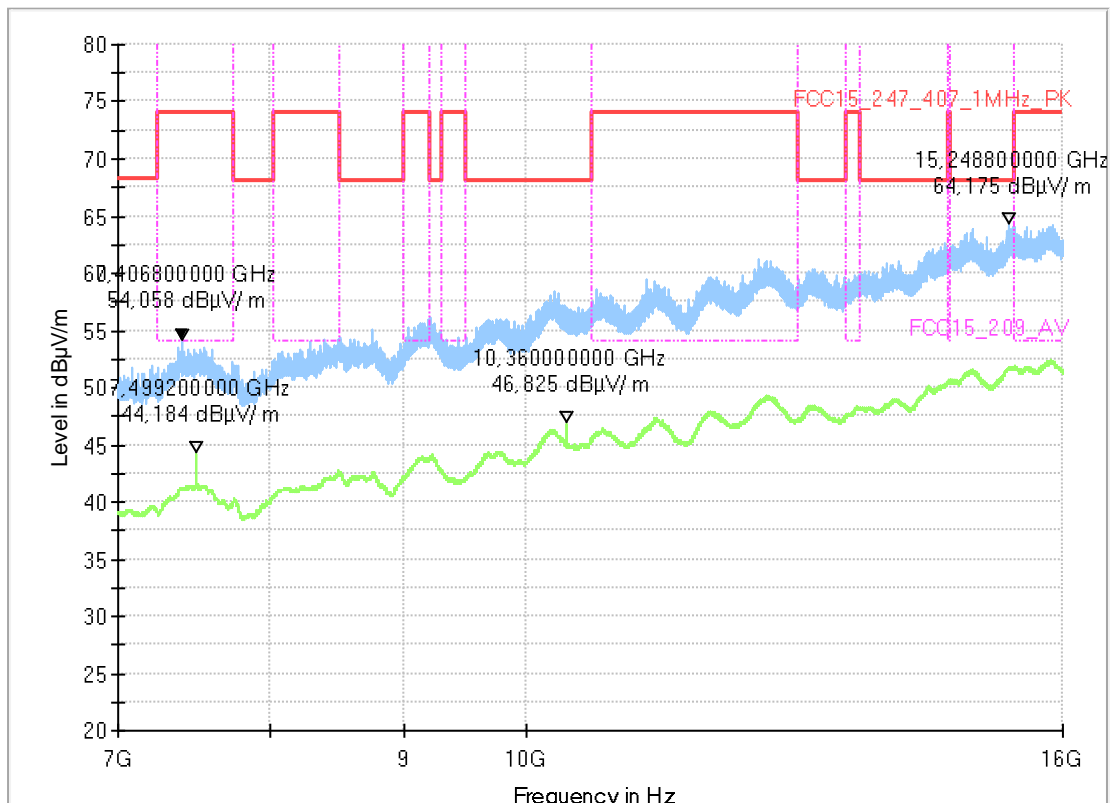
Common Information

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:	tfa
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



4.04d_a-mode_6MBps_ch036

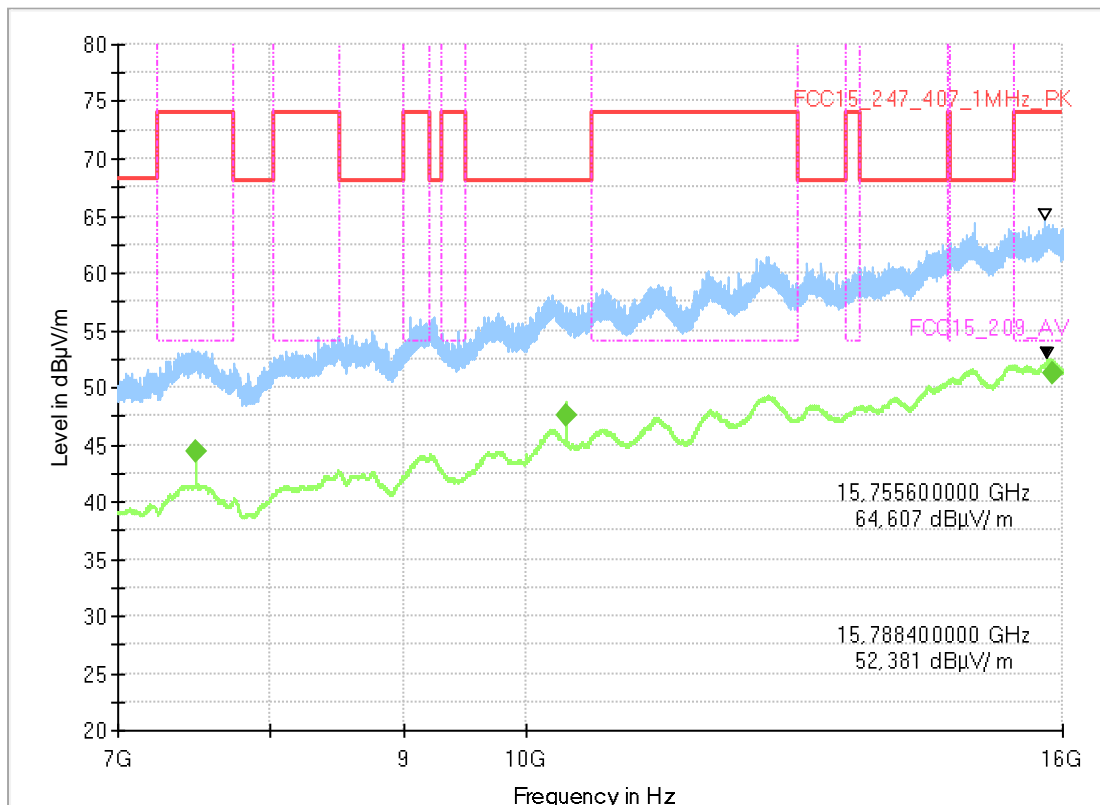
Common Information

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

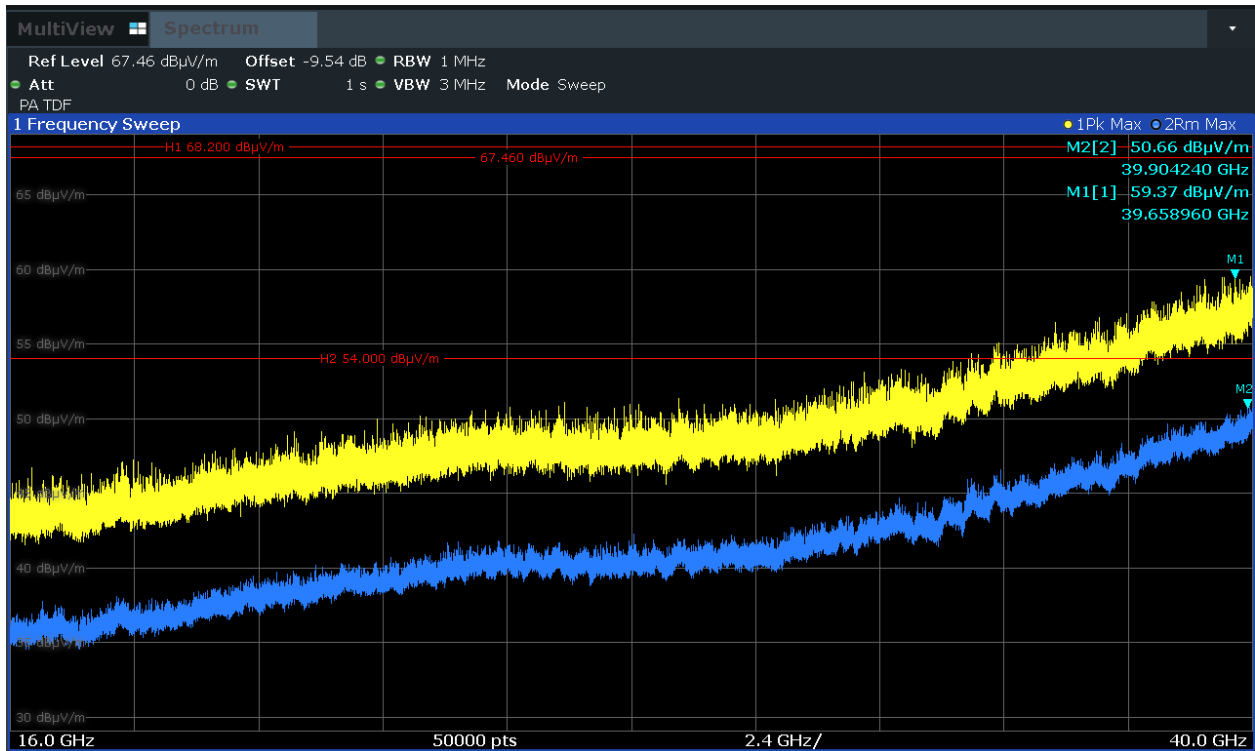




Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation	Corr. (dB/m)
7499.000000	---	44.45	54.00	9.55	100.0	1000.000	155.0	H	31.0	0.0	19
10360.20000	---	47.59	150.00	102.41	100.0	1000.000	155.0	V	324.0	0.0	24
15849.40000	---	51.28	54.00	2.72	100.0	1000.000	155.0	H	312.0	0.0	32

4.04e_a-mode_6Mbps_ch036



4.05a_n-mode_MCS0_ch038

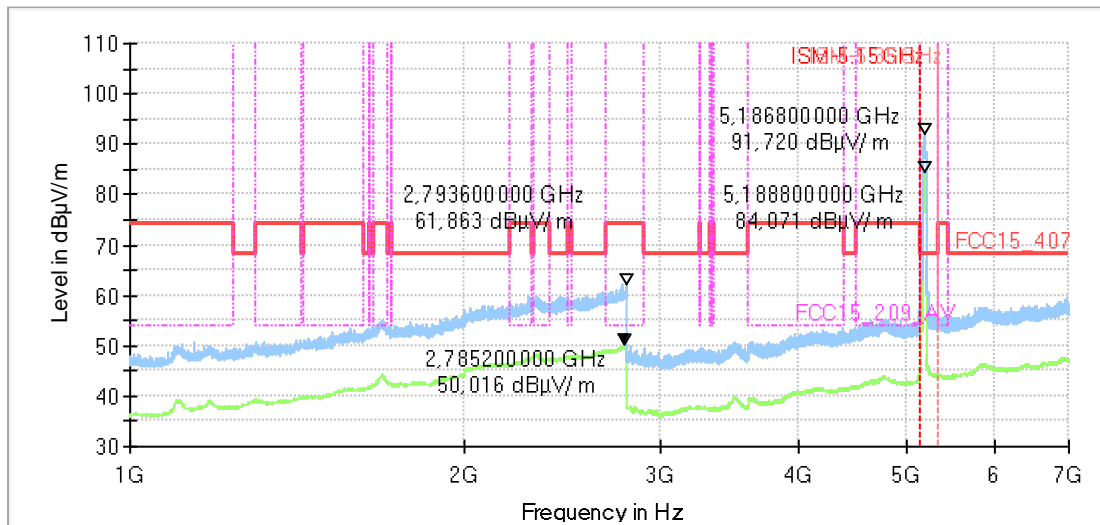
Common Information

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:	Mah
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



4.05b_n-mode_MCS0_ch038

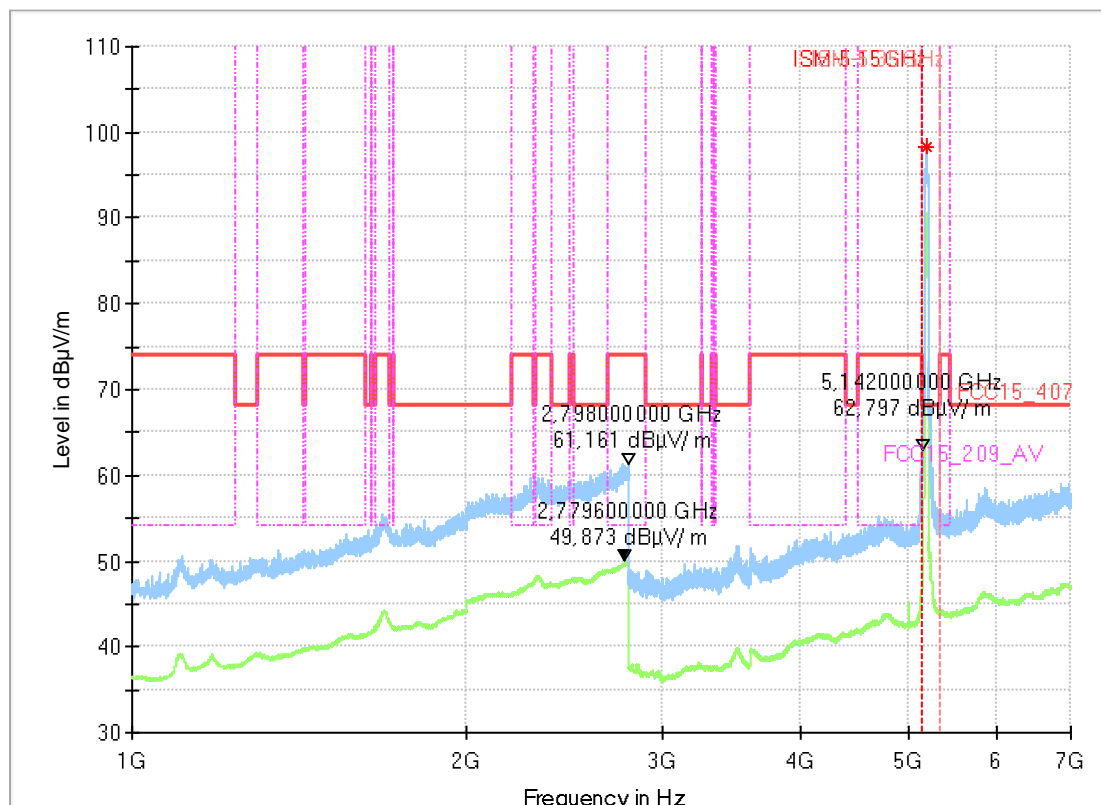
Common Information

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 | Standing | PWR15
 Operator: tfa
 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



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height	Pol	Azimuth (h)	Elevation (n)	Corr. (dB/m)	Comment
5186.400000	98.19	68.20	-29.99	155.0	H	45.0	0.0	12	09:07:53 - 07.01.2020

4.05c_n-mode_MCS0_ch038

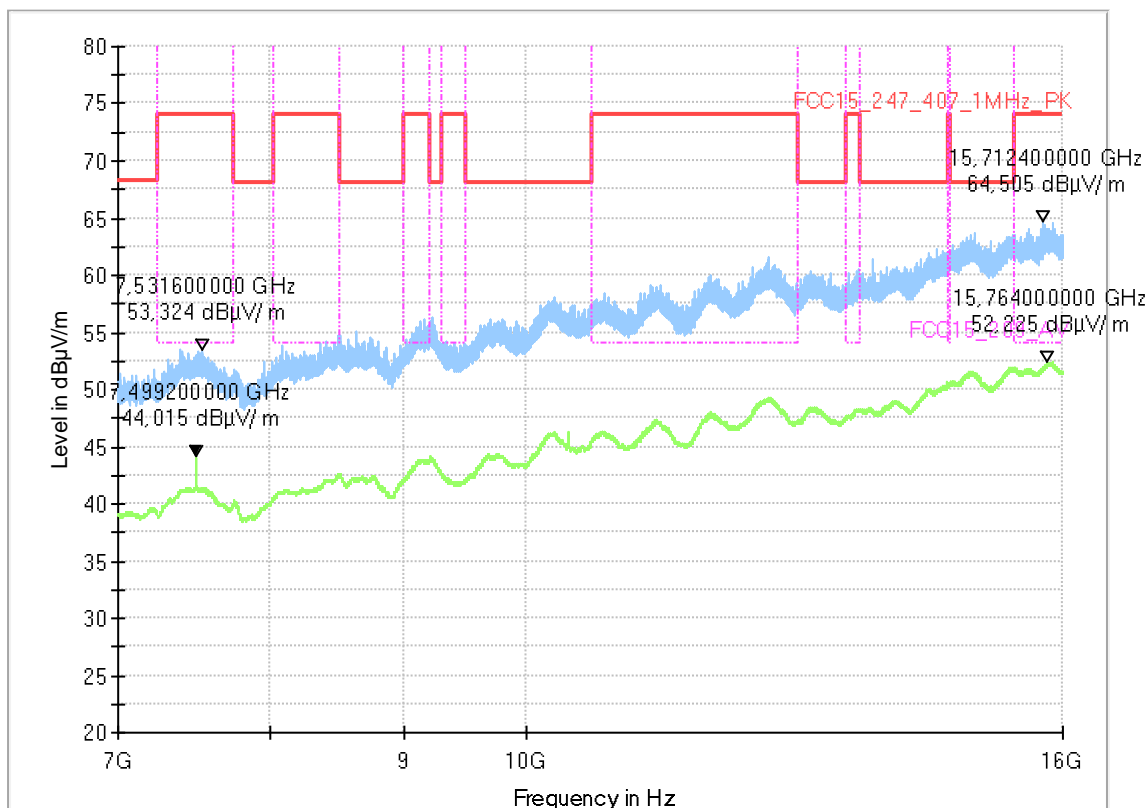
Common Information

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:	tfa
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



4.05d_n-mode_MCS0_ch038

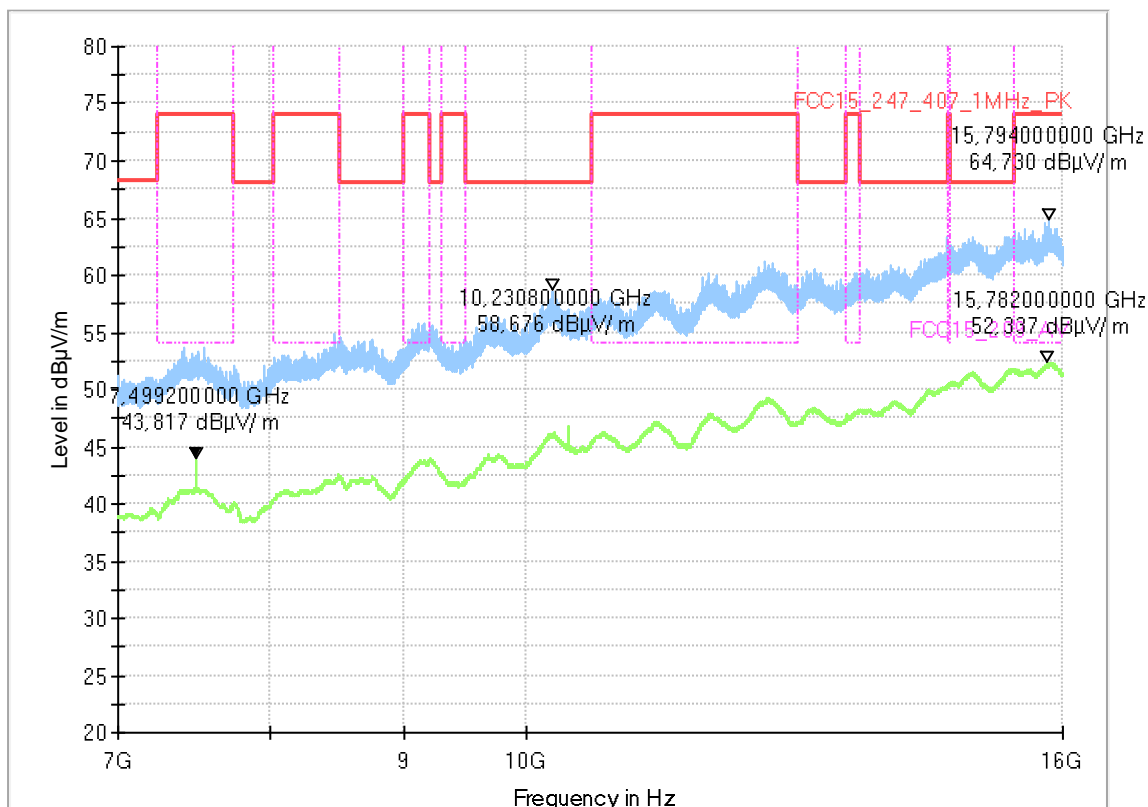
Common Information

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 Standing PWR15
Operator:	tfa
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

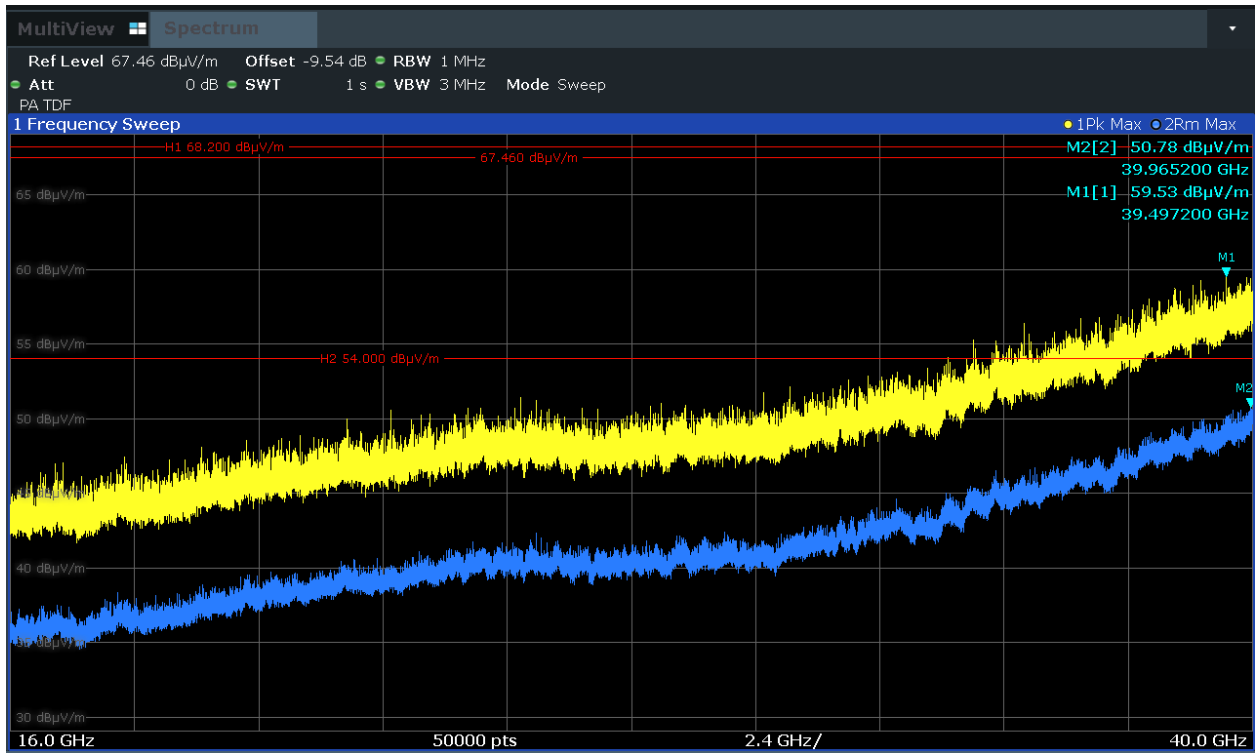
EUT Information

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

Full Spectrum



4.05e_n-mode_MCS0_ch038



4.06a_ac-mode_VHT-MCS0_ch42

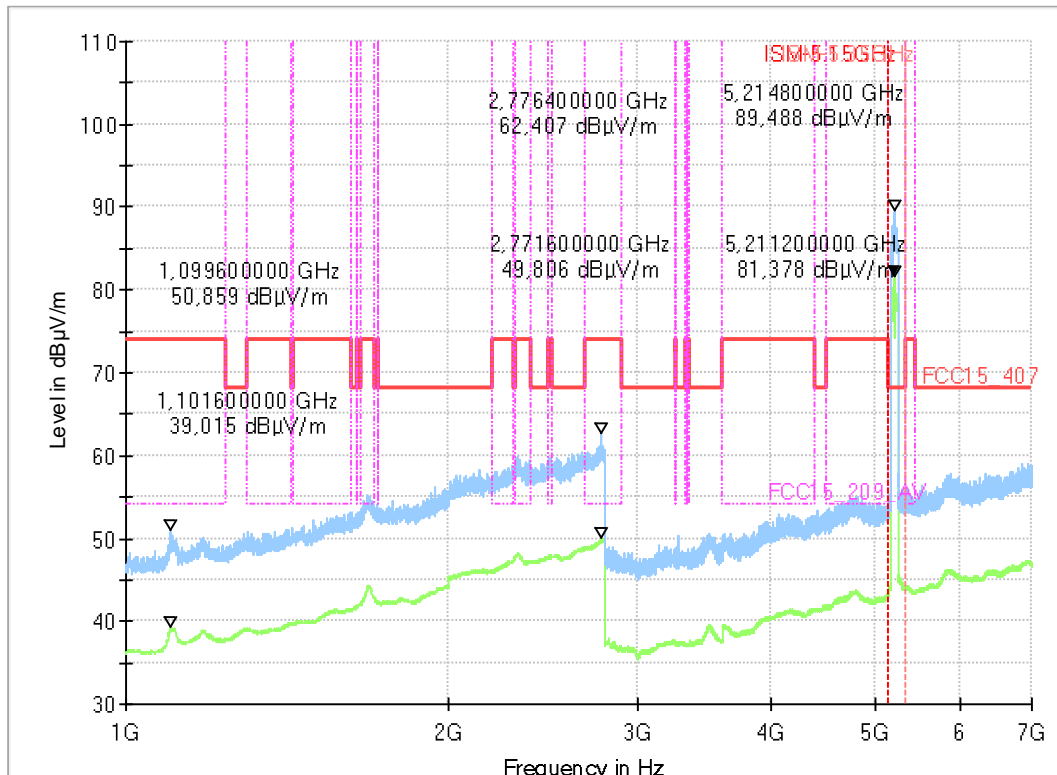
Common Information

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:	
EUT Setup:	1
Verdict:	Passed
Comment:	With Laptop in chamber
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



4.06b_c-mode_VHT-MCS0_ch42

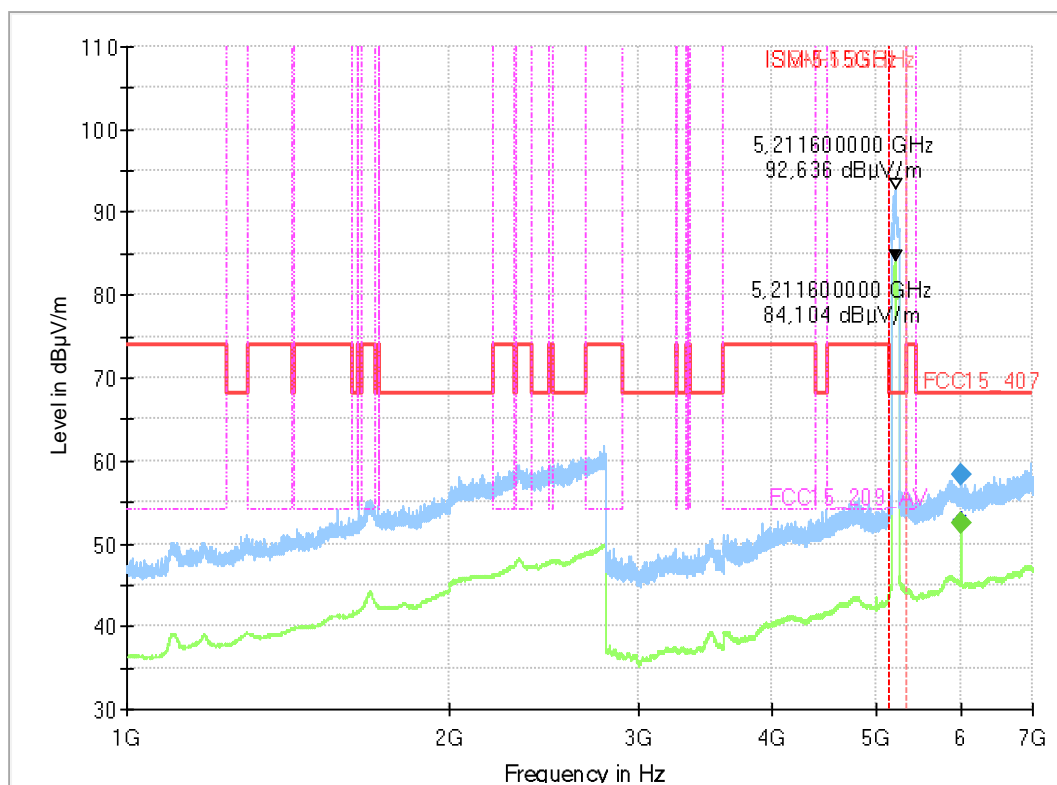
Common Information

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
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	---	52.39	150.00	97.61	100.0	1000.000	155.0	V	62.0	0.0
6000.100000	58.36	---	68.20	9.84	100.0	1000.000	155.0	H	40.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
6000.000000	15	10:51:12 - 19.06.2020
6000.100000	15	10:49:01 - 19.06.2020

4.06c_ac-mode_VHT-MCS0_ch42

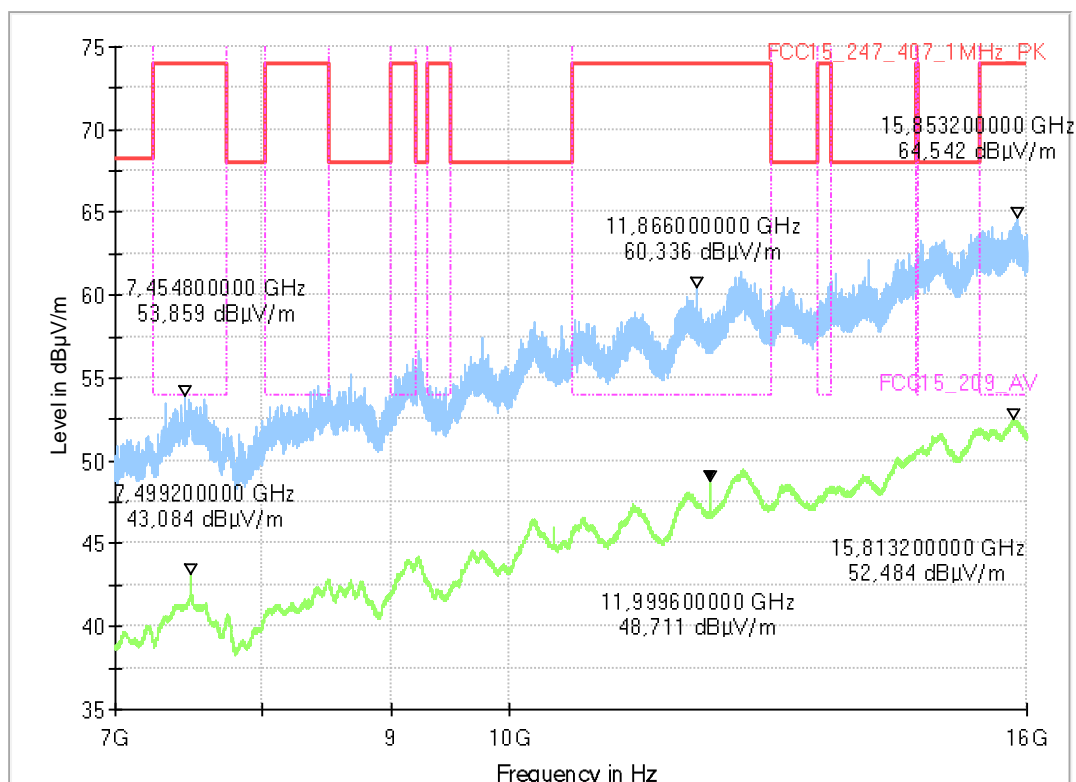
Common Information

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:	MKh
Comment:	Humidity : 50% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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

Full Spectrum



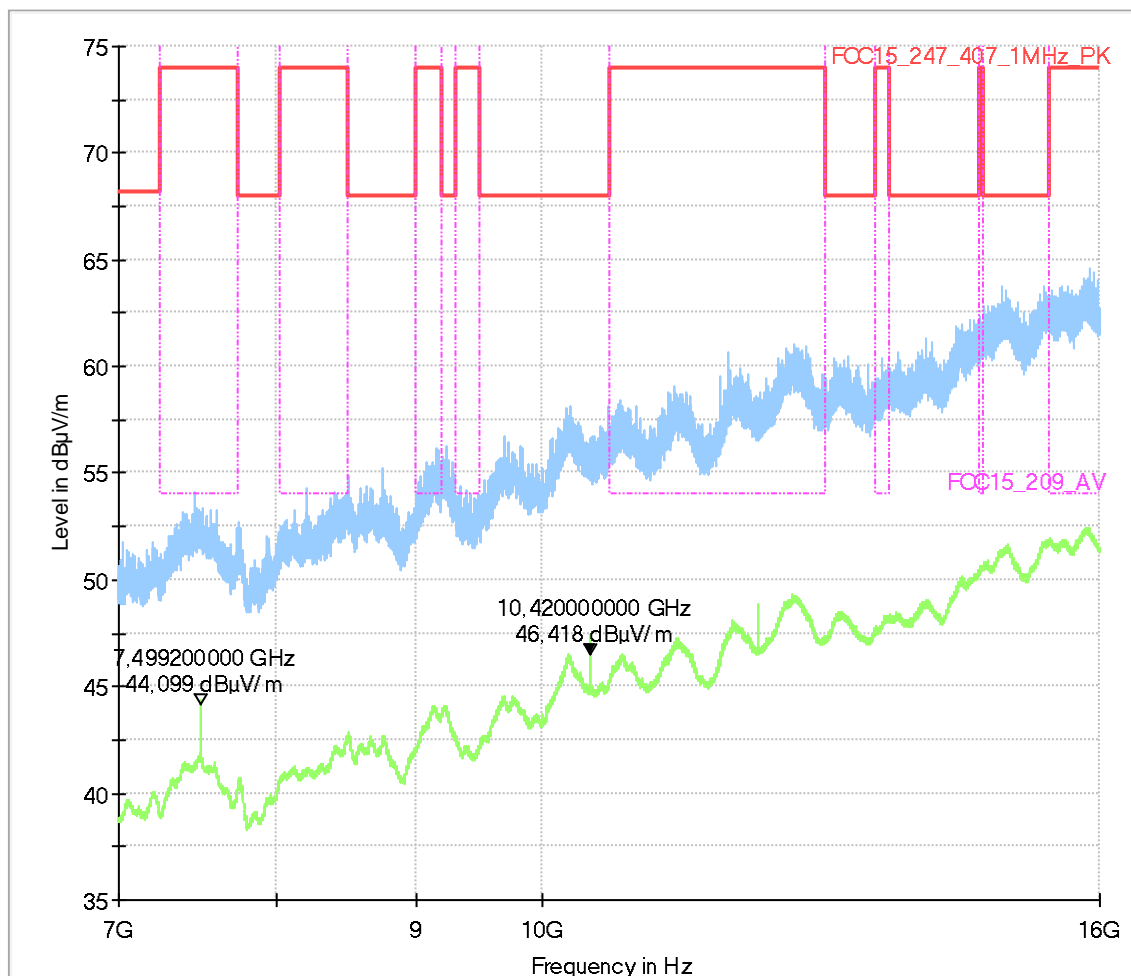
4.06d_ac-mode_VHT-MCS0_ch42

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-80 MCS0 ch042 standing PWR 10
Operator:	PMa
Comment:	
EUT Setup:	1
Verdict:	Passed
Environmental Conditions:	Humidity : 51% rH; Temperature: 20 °C

EUT Information

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



4.06e_ac-mode_VHT-MCS0_ch42

