

Annex 1: Measurement diagrams

24-1-0039801T012_TR1-A201-R01

Number of pages:	114	Date of Report:	2024-Oct-29
Testing company:	cetecom advanced GmbH Untertuerkheimer Str. 6-10 66117 Saarbruecken GERMANY	Applicant:	Lufthansa Technik AG
Product: Model:	Small Aircraft Cabin Management and Inflight Entertainment System (SAC) SAC0522		
FCC ID:	2BKRFSA0522001001	IC: PMN: HVIN: FVIN:	32839-SAC0522001 SAC SAC0522-001-001 SCDP1-01-B-RC01
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15 Subpart C Intentional Radiators § 15.247 Operation within the bands 2400-2483.5 MHz ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 General Requirements for Compliance of Radio Apparatus RSS-247, Issue 3 Digital Transmission Systems (DTSS)		

Measurement diagrams

1 Conducted Measurements

1.1 RF Output Power

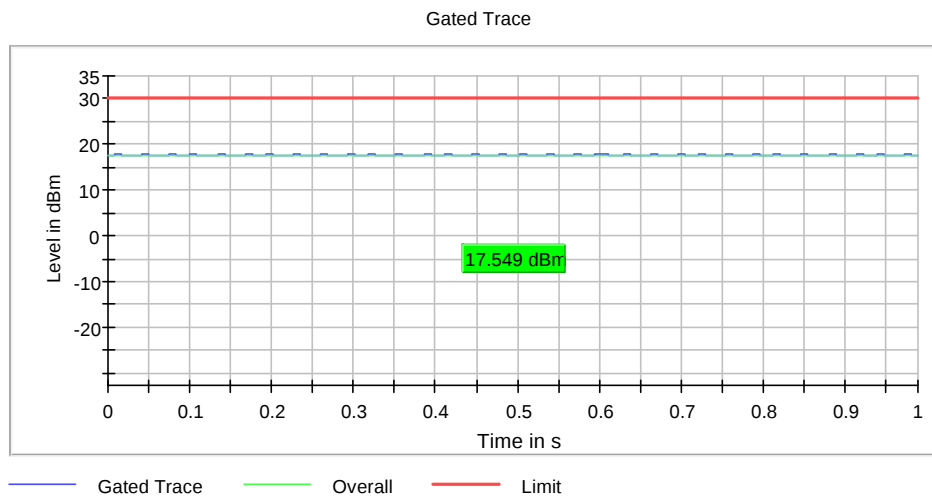
1.1.1 WLAN 2.4GHz SISO

RF output power (2412 MHz; b-mode [1Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	17.5	30.0	17.5	99.759	PASS



OSP PowerMeter settings

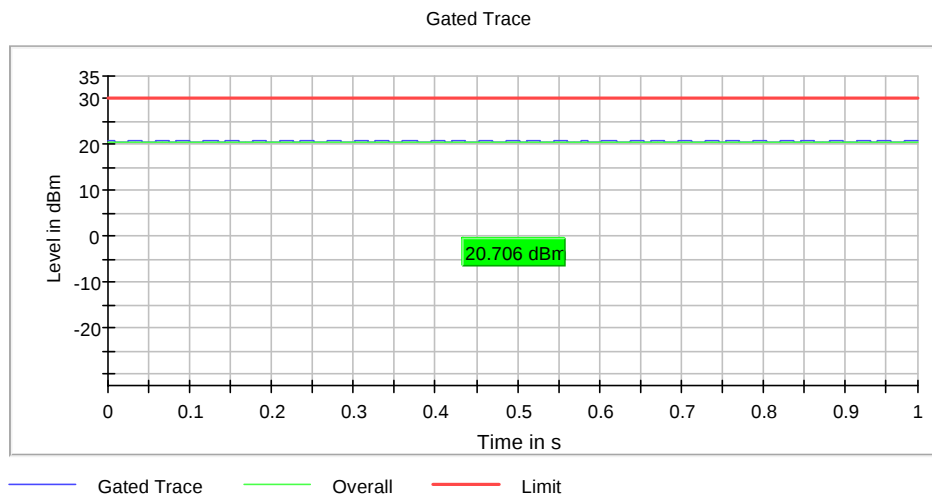
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2437 MHz; b-mode [1Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	20.7	30.0	20.7	99.758	PASS



OSP PowerMeter settings

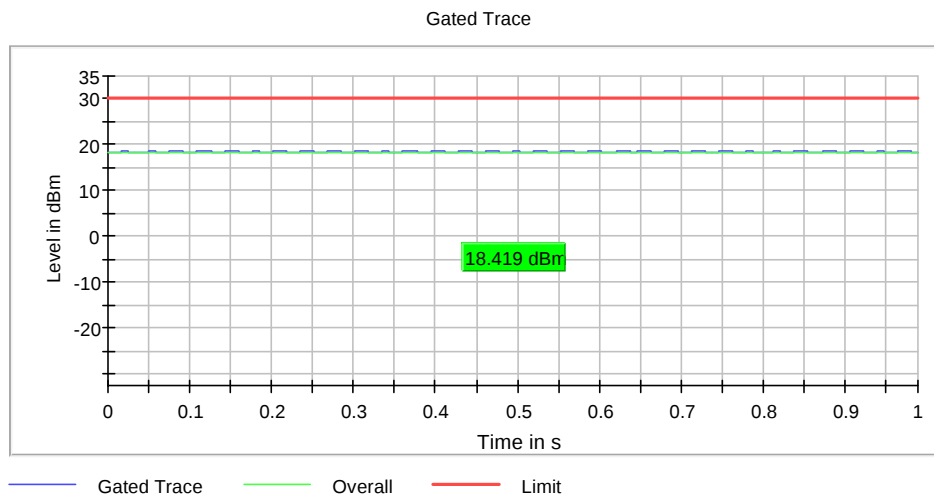
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2462 MHz; b-mode [1Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2462.000000	18.4	30.0	18.4	99.759	PASS



OSP PowerMeter settings

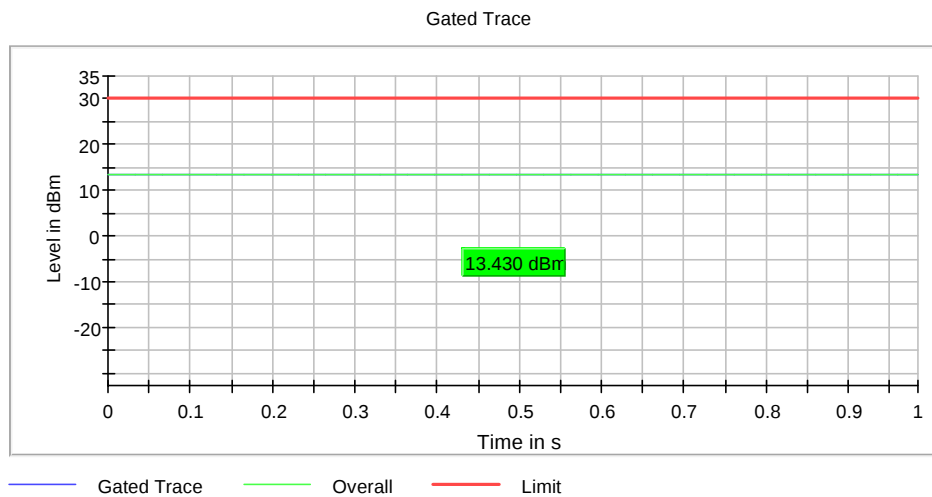
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2412 MHz; g-mode [6Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	13.4	30.0	13.4	98.652	PASS



OSP PowerMeter settings

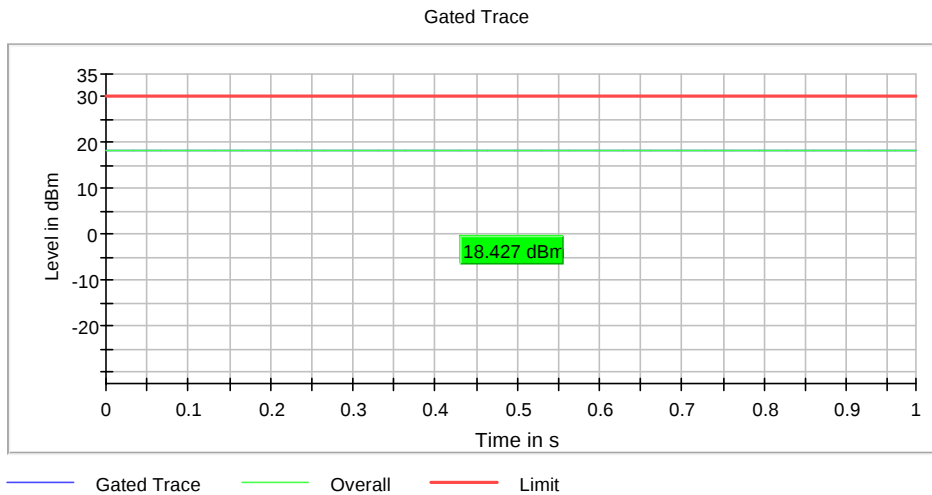
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2437 MHz; g-mode [6Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	18.4	30.0	18.4	98.650	PASS



OSP PowerMeter settings

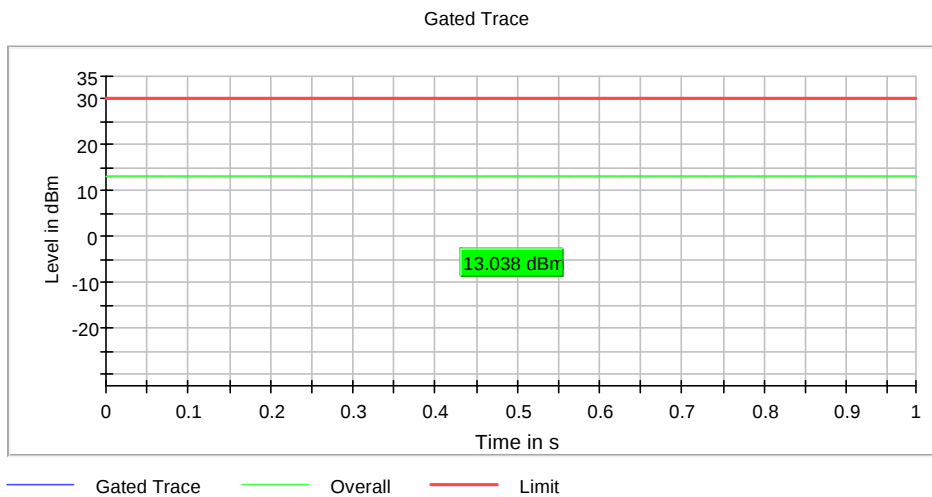
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2462 MHz; g-mode [6Mbps] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2462.000000	13.0	30.0	13.0	98.651	PASS



OSP PowerMeter settings

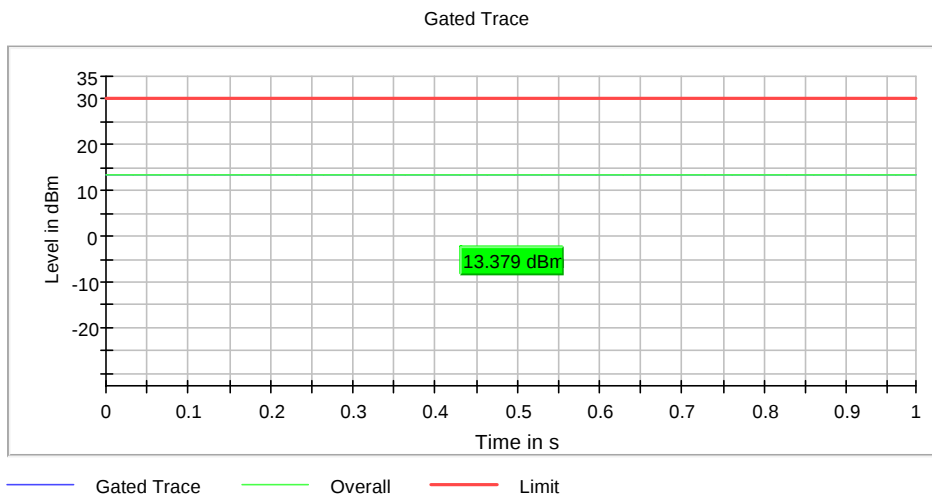
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2412 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	13.4	30.0	13.4	98.557	PASS



OSP PowerMeter settings

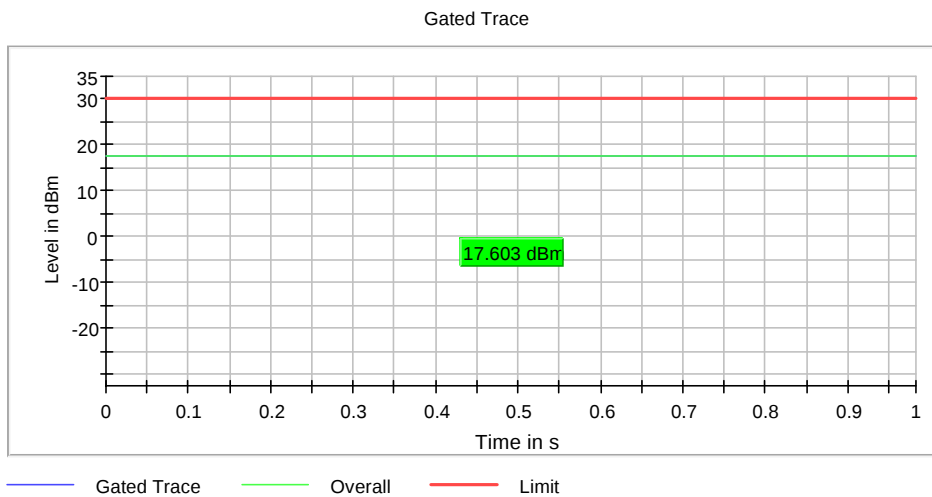
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2437 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	17.6	30.0	17.6	98.555	PASS



OSP PowerMeter settings

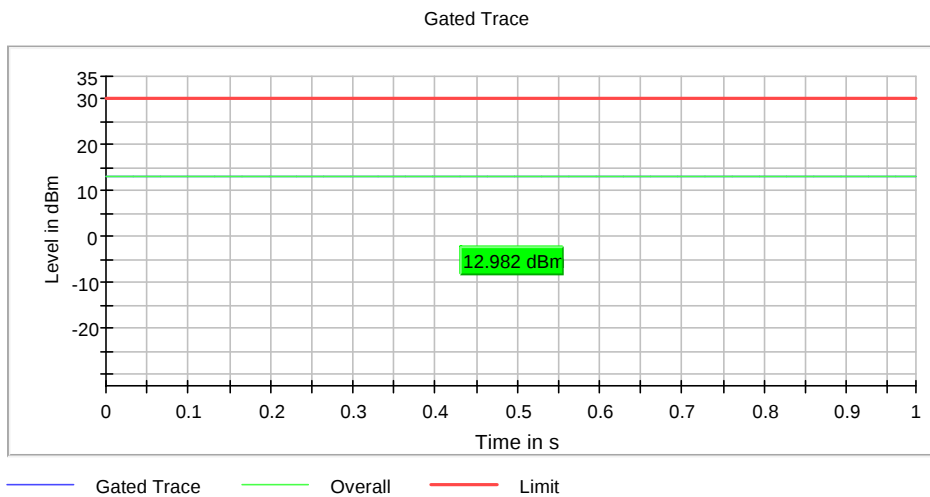
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2462 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2462.000000	13.0	30.0	13.0	98.554	PASS



OSP PowerMeter settings

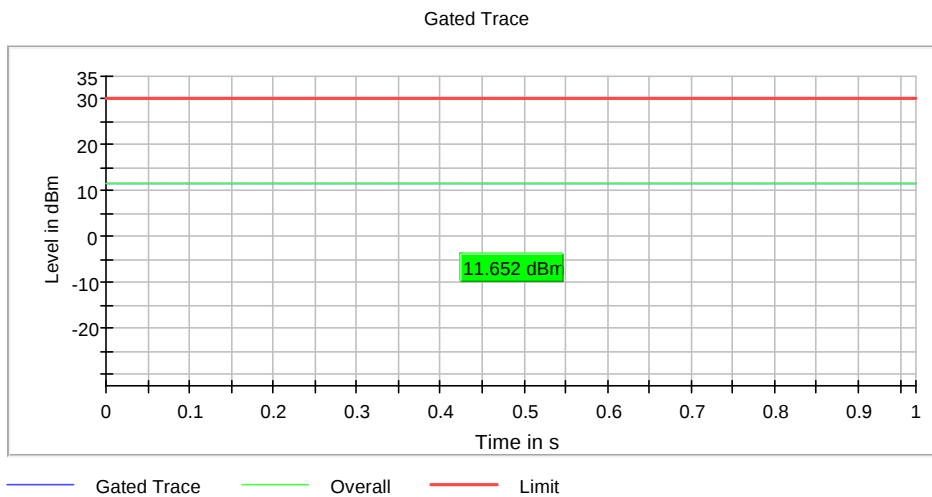
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2422 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2422.000000	11.7	30.0	11.7	97.109	PASS



OSP PowerMeter settings

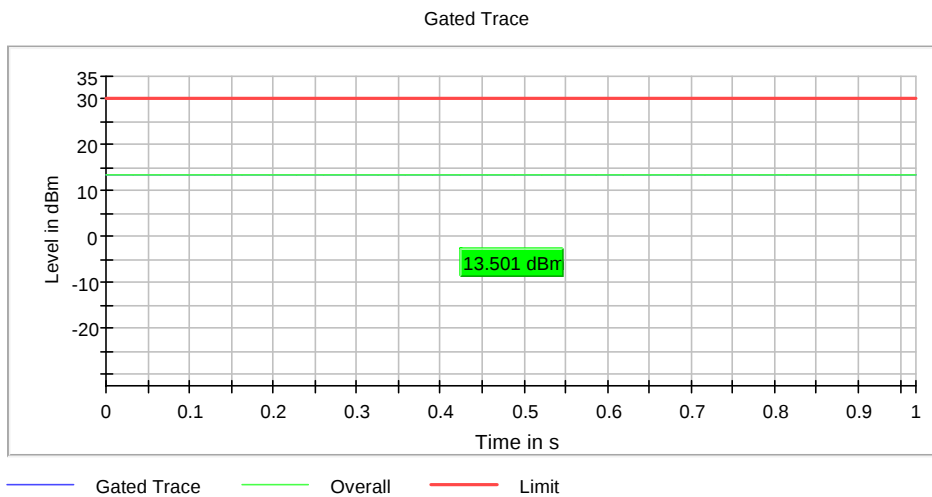
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2437 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	13.5	30.0	13.5	97.099	PASS



OSP PowerMeter settings

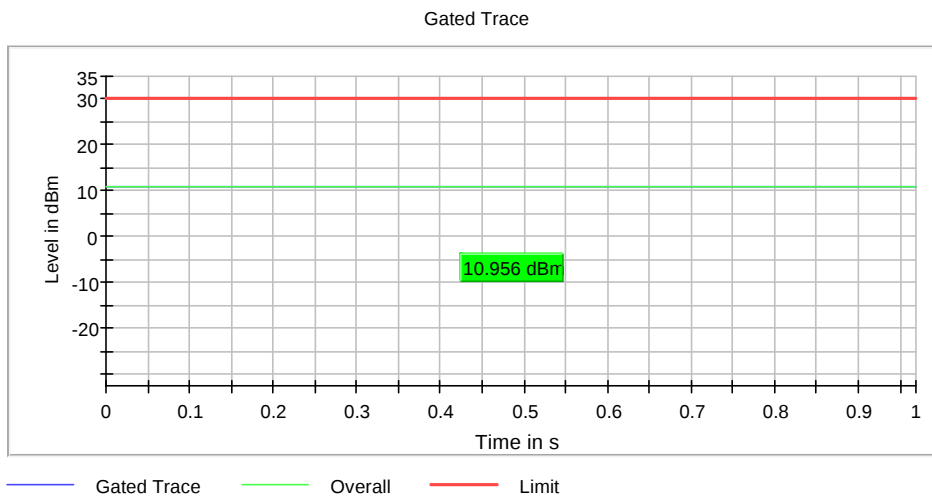
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2452 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2452.000000	11.0	30.0	11.0	97.106	PASS



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

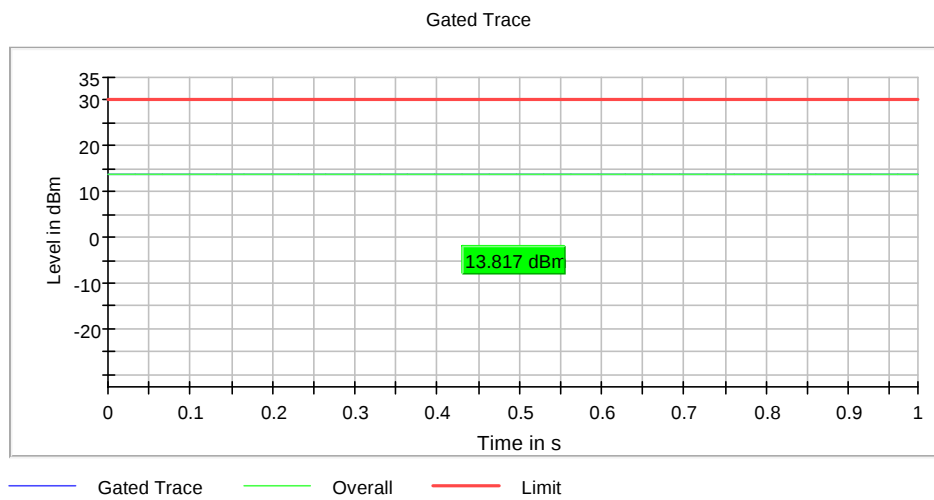
1.1.2 WLAN 2.4GHz MIMO Path A

RF output power (2412 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	13.8	30.0	13.8	98.553	PASS



OSP PowerMeter settings

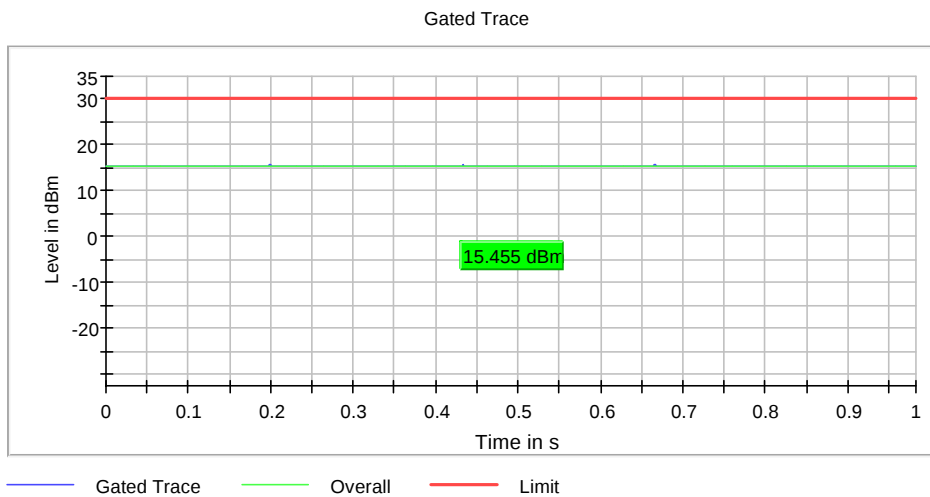
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2437 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	15.5	30.0	15.5	98.552	PASS



OSP PowerMeter settings

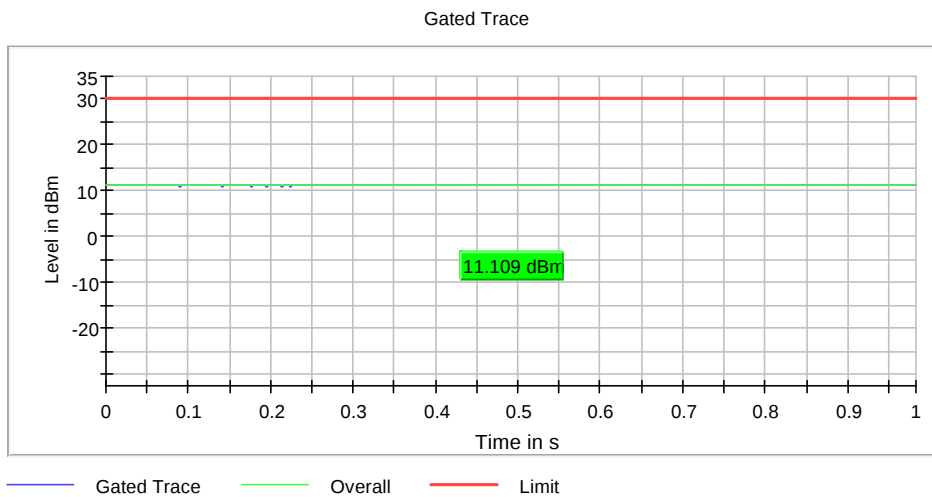
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2462 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2462.000000	11.1	30.0	11.1	98.558	PASS



OSP PowerMeter settings

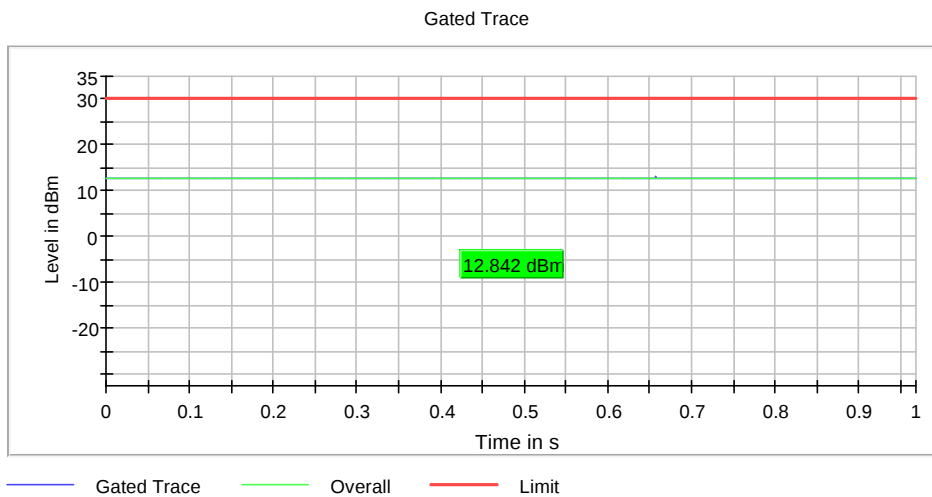
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2422 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2422.000000	12.8	30.0	12.8	97.101	PASS



OSP PowerMeter settings

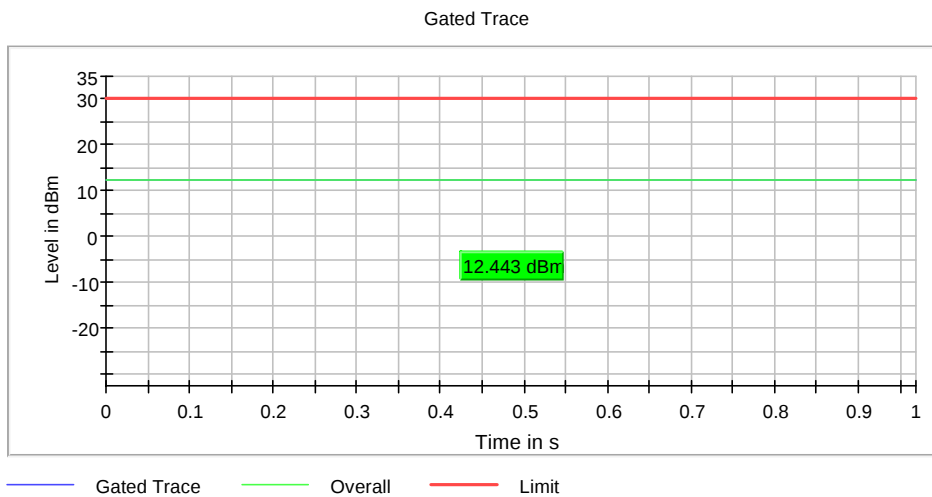
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

RF output power (2437 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	12.4	30.0	12.4	97.104	PASS



OSP PowerMeter settings

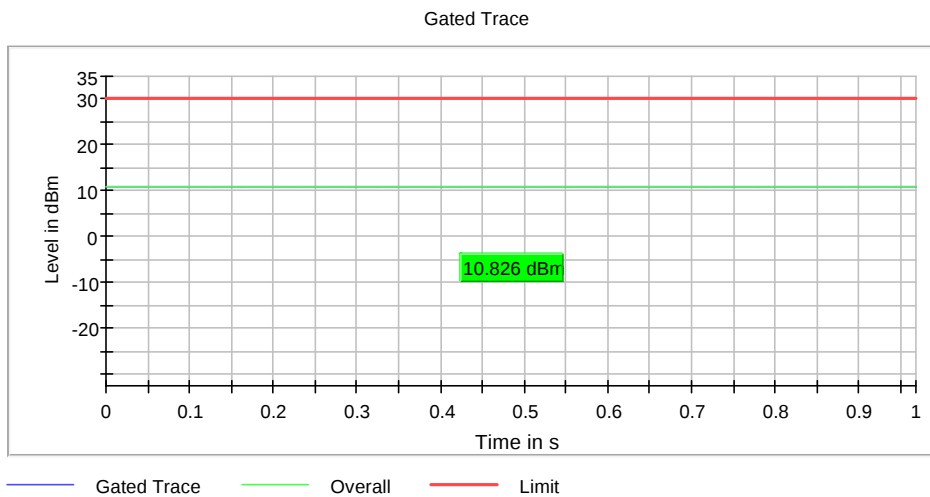
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2452 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2452.000000	10.8	30.0	10.8	97.105	PASS



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

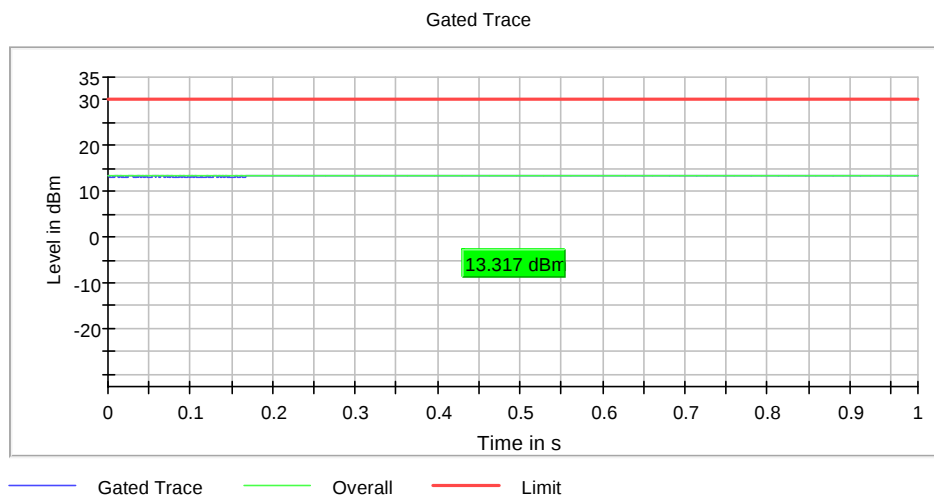
1.1.3 WLAN 2.4GHz MIMO Path B

RF output power (2412 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	13.3	30.0	13.3	98.556	PASS



OSP PowerMeter settings

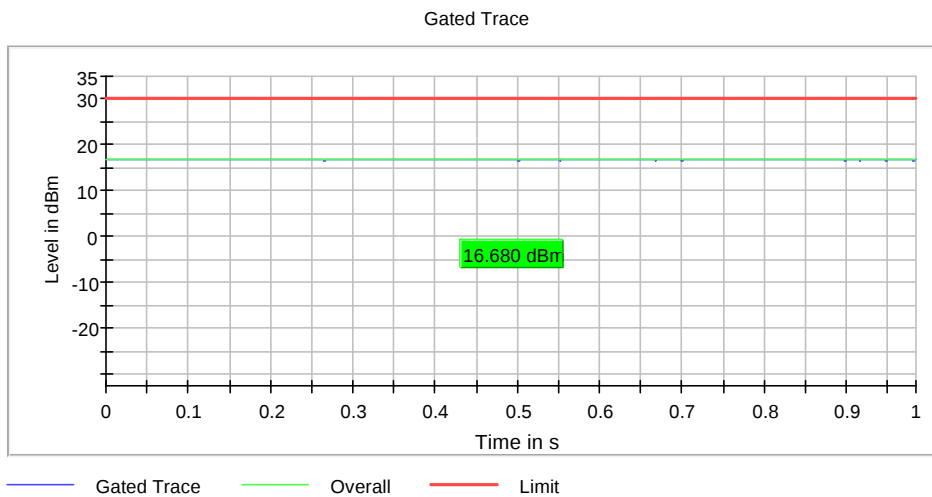
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2437 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	16.7	30.0	16.7	98.550	PASS



OSP PowerMeter settings

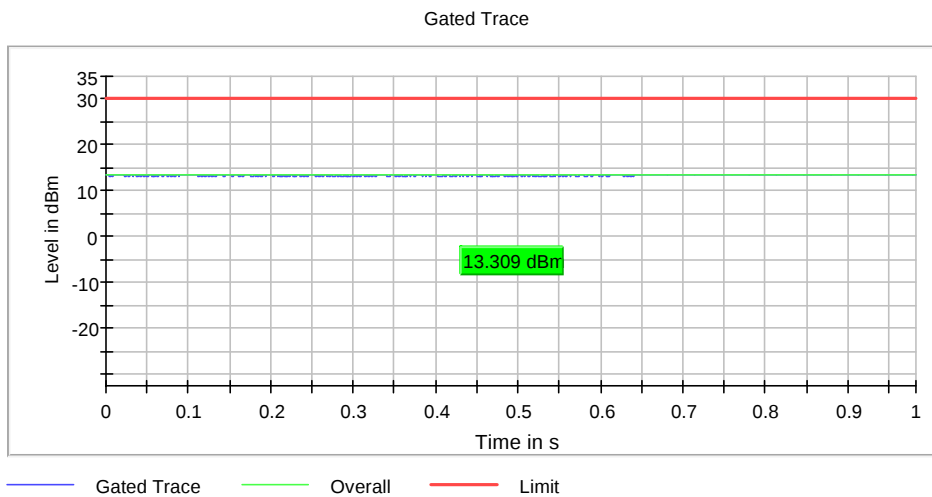
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2462 MHz; n20-mode [MCS0] (20 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2462.000000	13.3	30.0	13.3	98.549	PASS



OSP PowerMeter settings

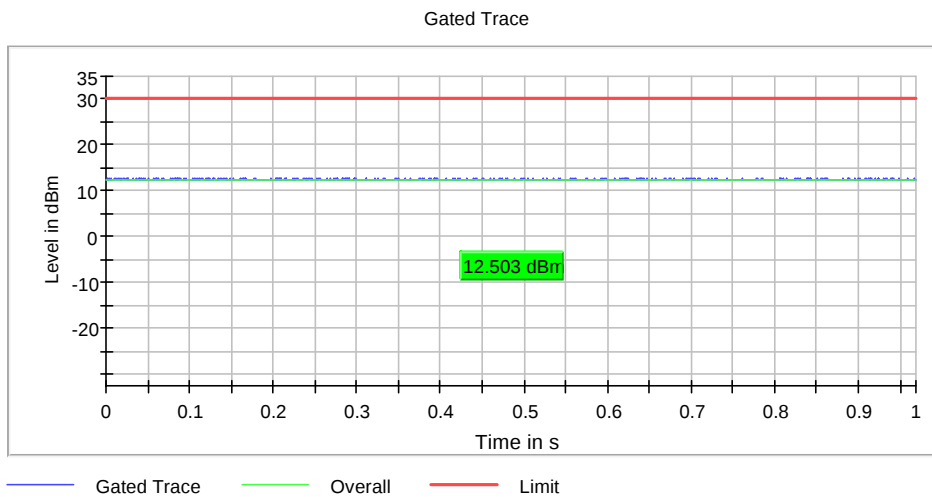
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2422 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2422.000000	12.5	30.0	12.5	97.104	PASS



OSP PowerMeter settings

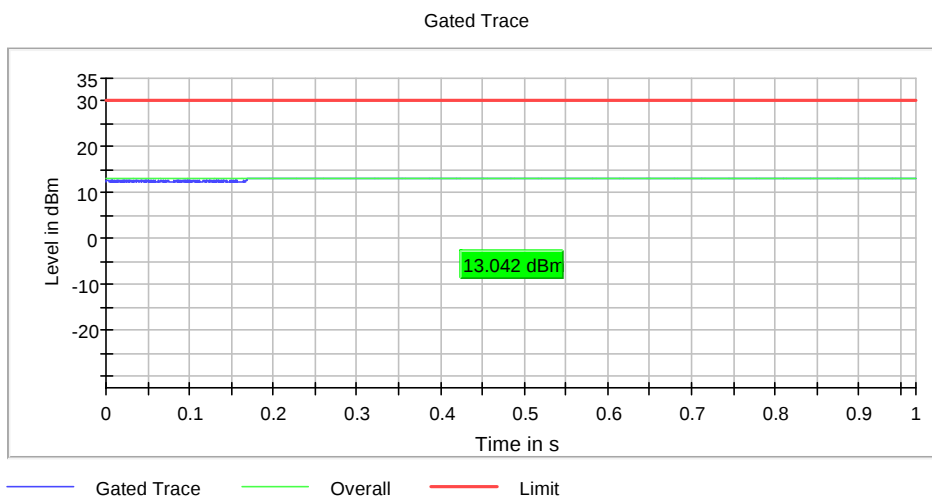
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2437 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2437.000000	13.0	30.0	13.0	97.095	PASS



OSP PowerMeter settings

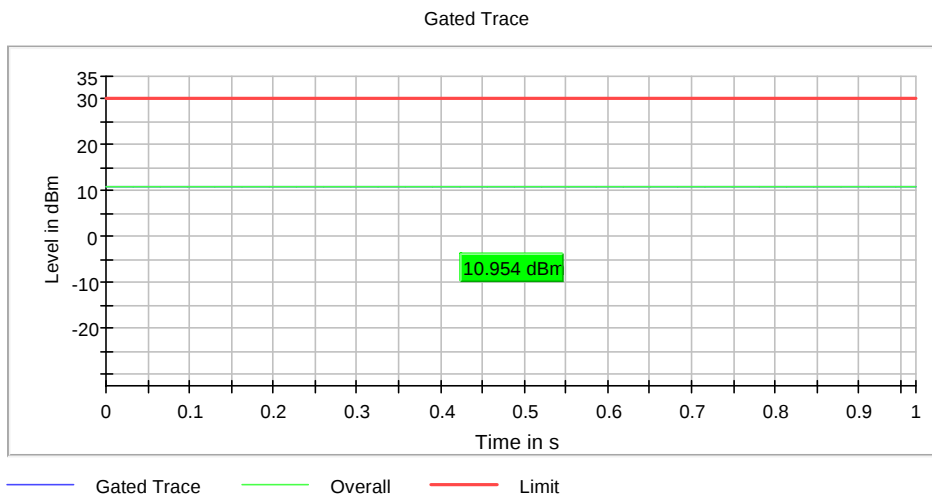
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2452 MHz; n40-mode [MCS0] (20 dBm); 40 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2452.000000	11.0	30.0	11.0	97.103	PASS



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

2 Radiated Measurements

2.1 Radiated field strength emissions 9kHz- 30 MHz

2.01_b-mode_ch1_lying

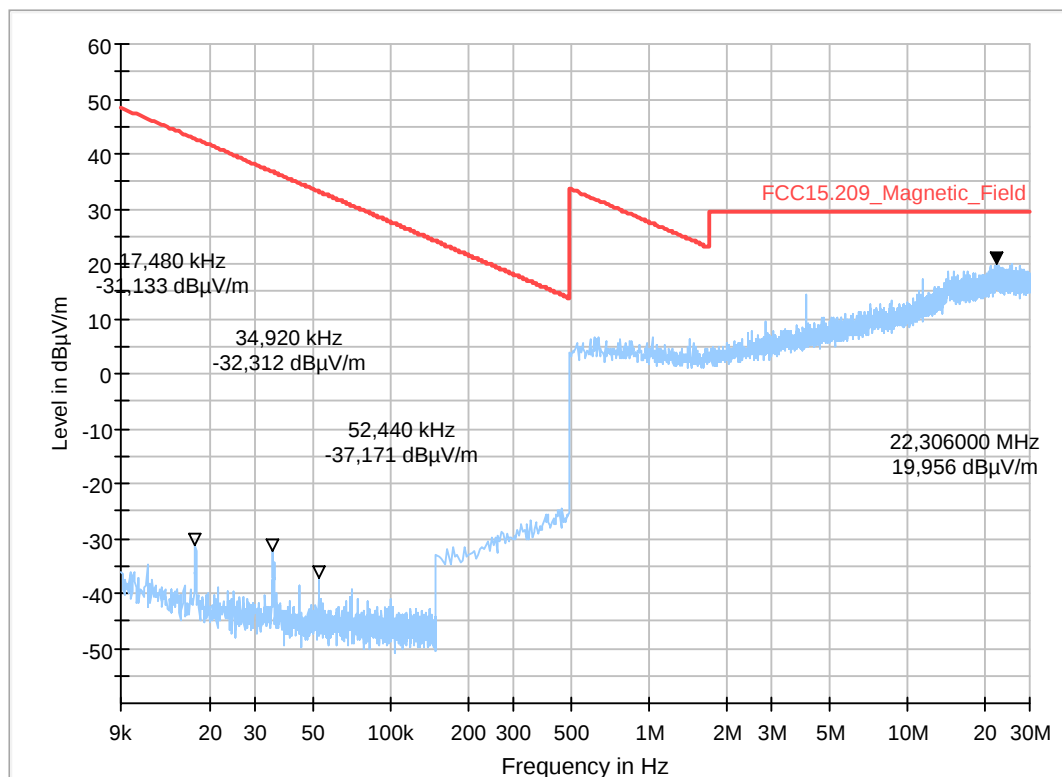
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	b-mode 1Mbps ch1 P: 19
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.02_b-mode_ch1_standing

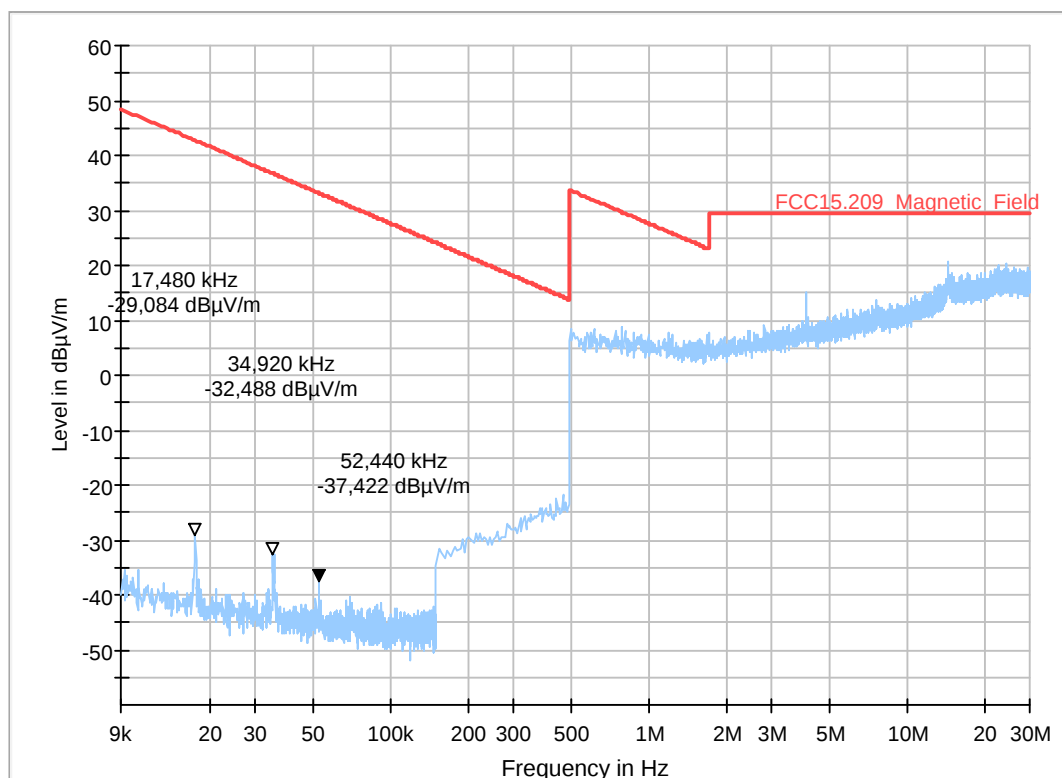
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	b-mode 1Mbps ch1 P: 19
Power during tests:	28 V DC
Comment 1:	EUT standing
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.03_b-mode_ch6

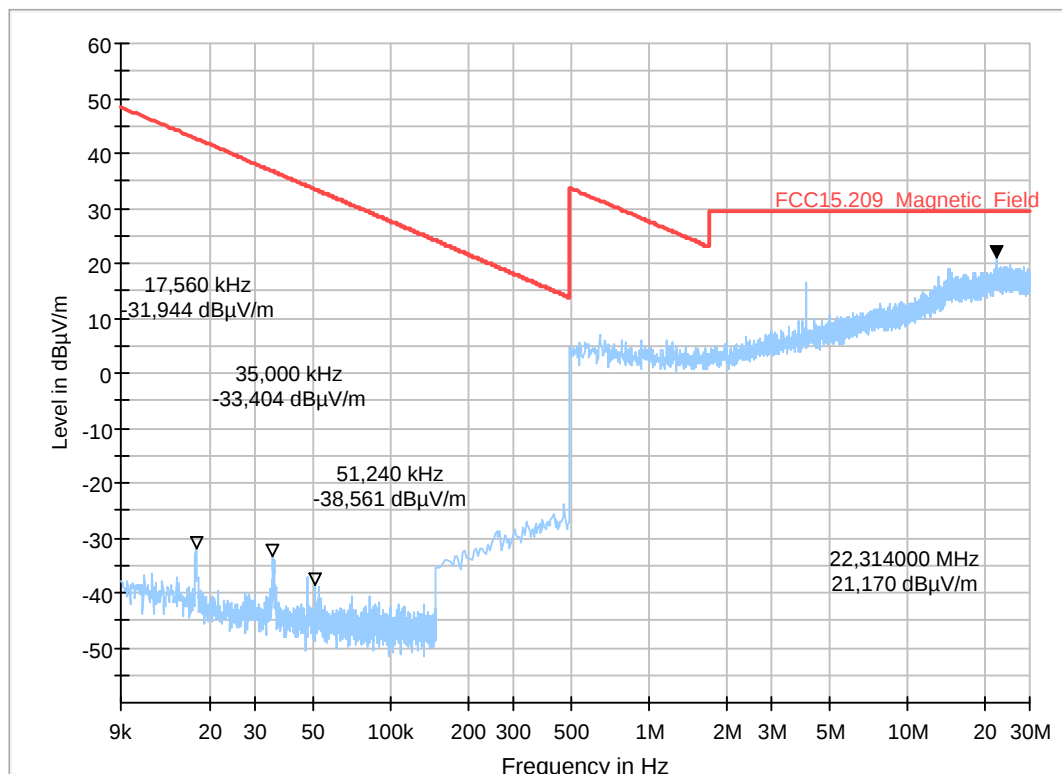
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	b-mode 1Mbps ch6 P: 21
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.04_b-mode_ch11

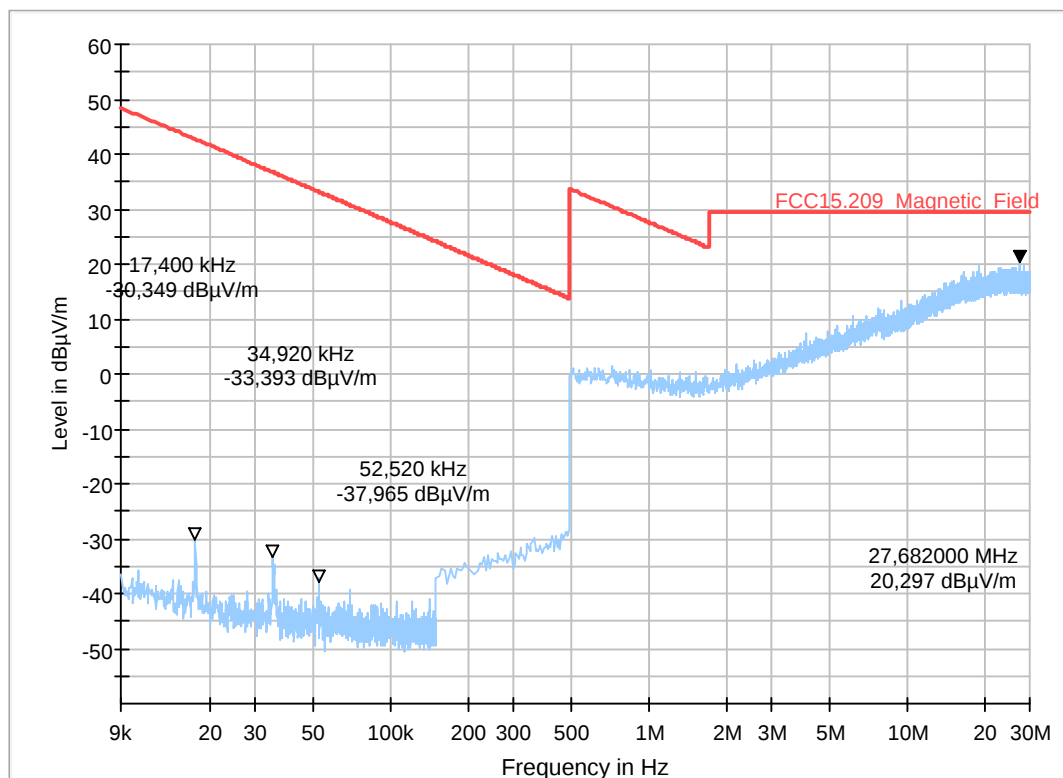
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	b-mode 1Mbps ch11 P: 19
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.05_g-mode_ch1

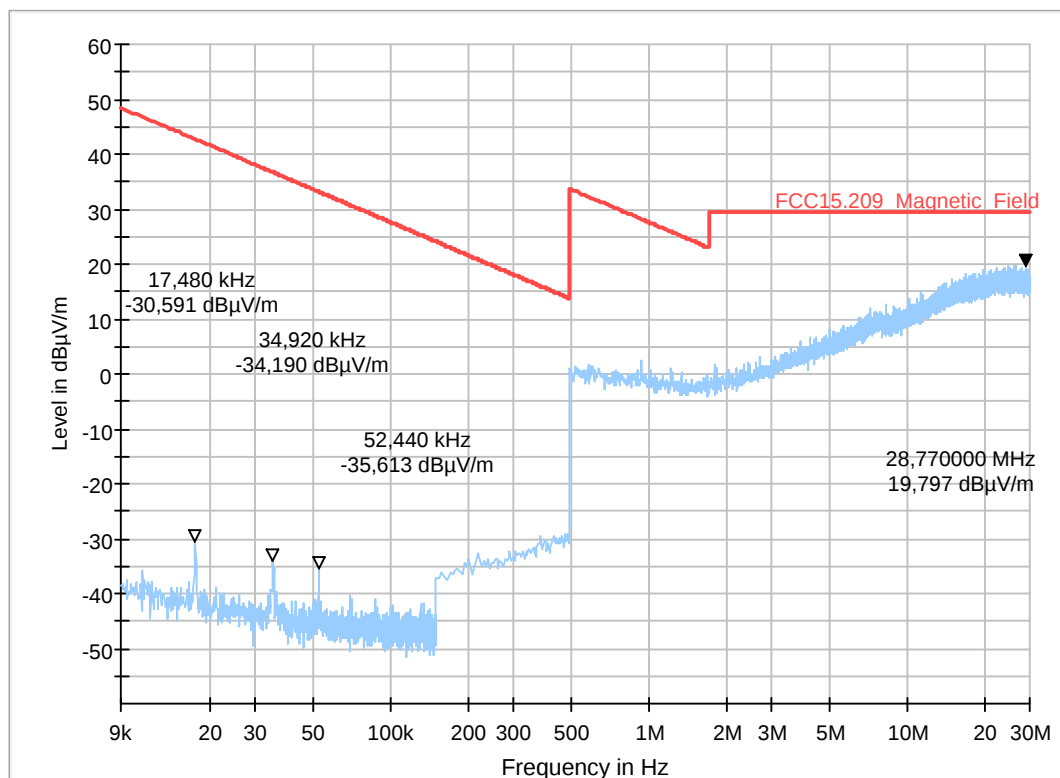
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	g-mode 6Mbps ch1 P: 14
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.06_g-mode_ch6

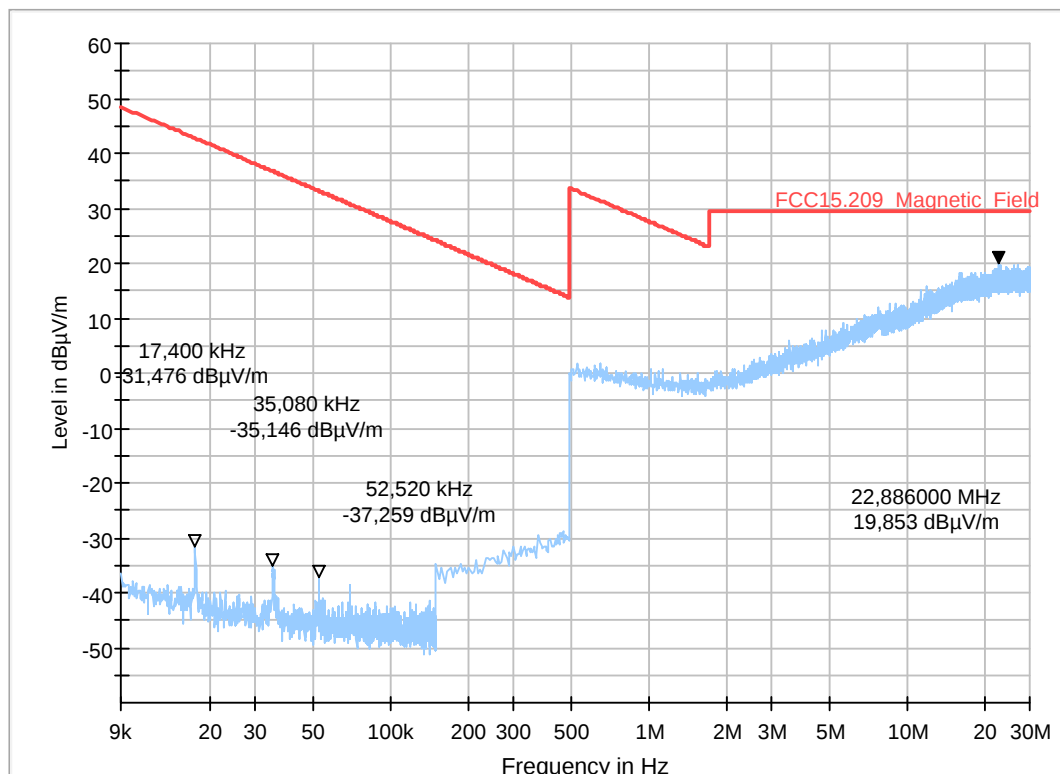
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	g-mode 6Mbps ch6 P: 18
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.07_g-mode_ch11

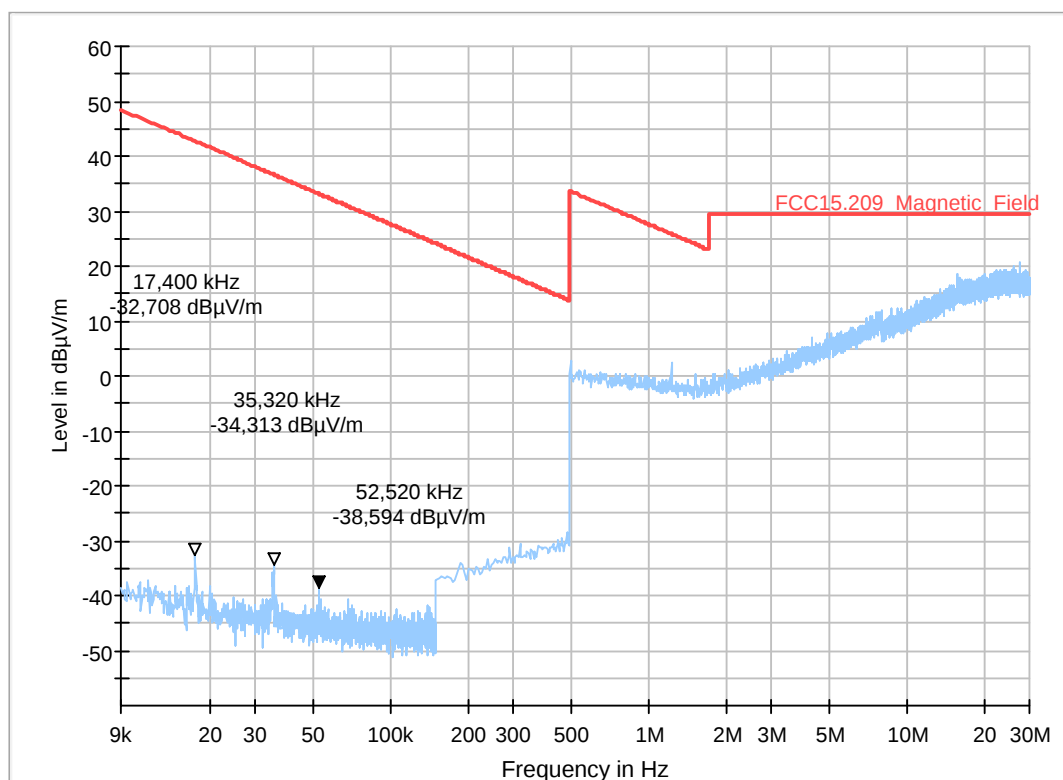
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	g-mode 6Mbps ch11 P: 13
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.08_n40-mode_ch3

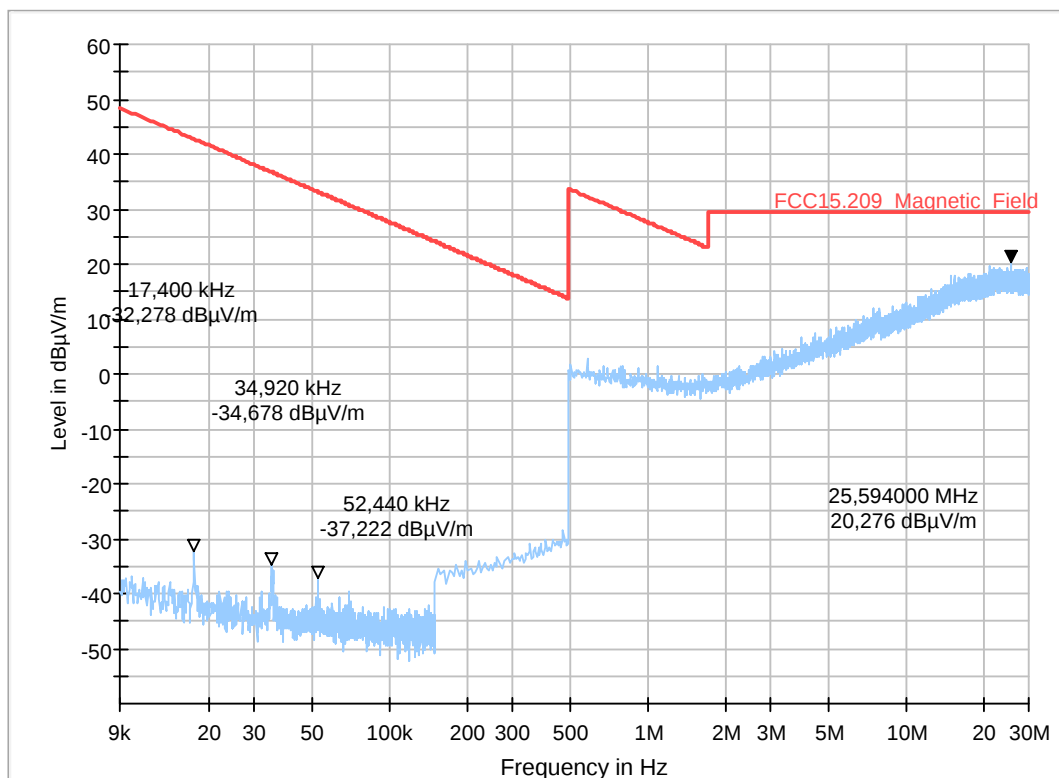
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	n40-mode MCS0 ch3 P13
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.09_n40-mode_ch6

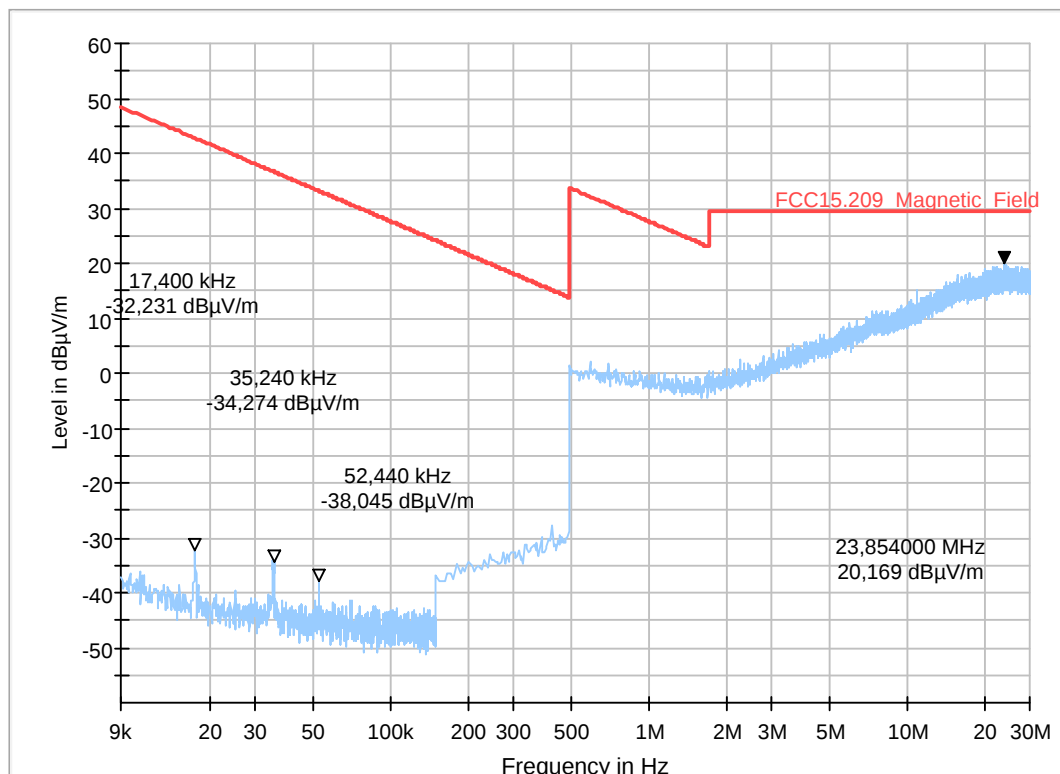
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	PSt
Operating Mode:	n40-mode MCS0 ch6 P: 13
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.10_n40-mode_ch9

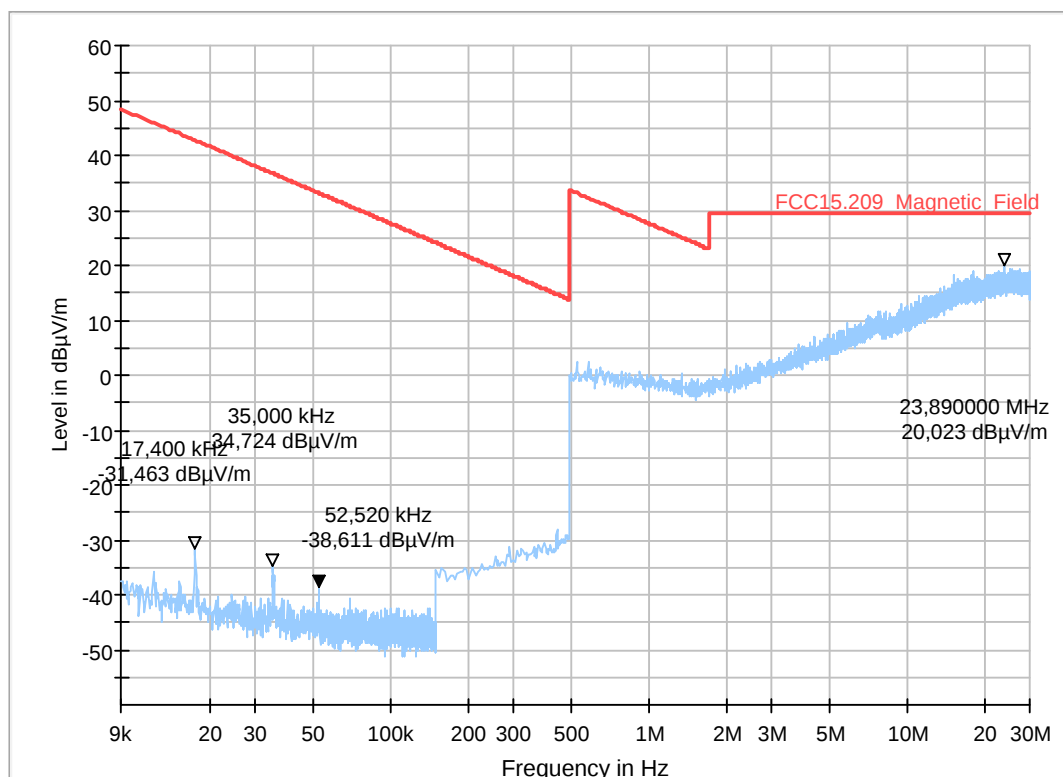
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n40-mode MCS0 ch9 P: 12
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.11_n40-MIMO_ch3

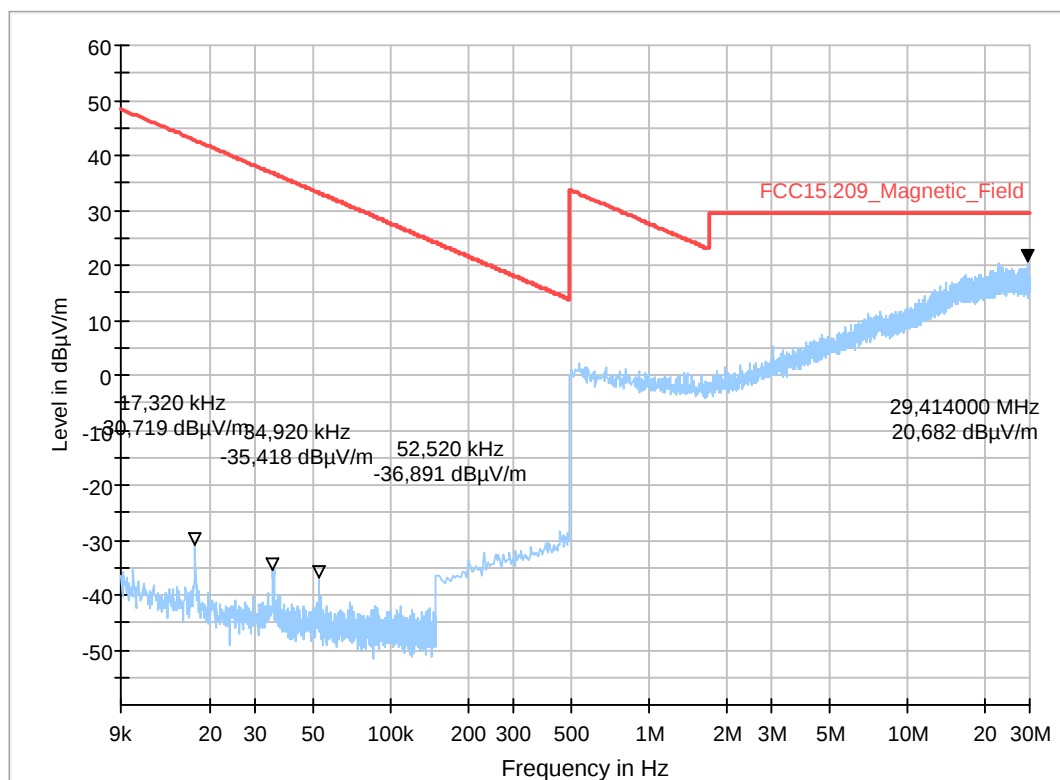
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n40-MIMO MCS0 ch3 P: 12
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.12_n40-MIMO_ch6

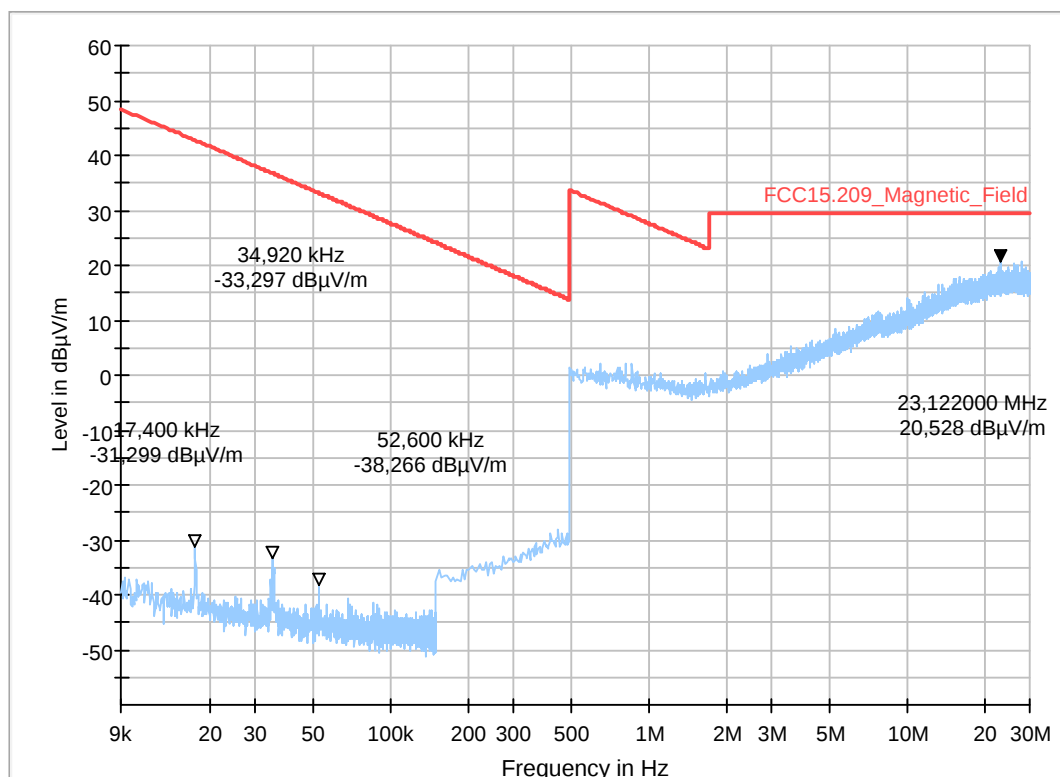
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n40-MIMO MCS0 ch6 P: 11
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.13_n40-MIMO_ch9

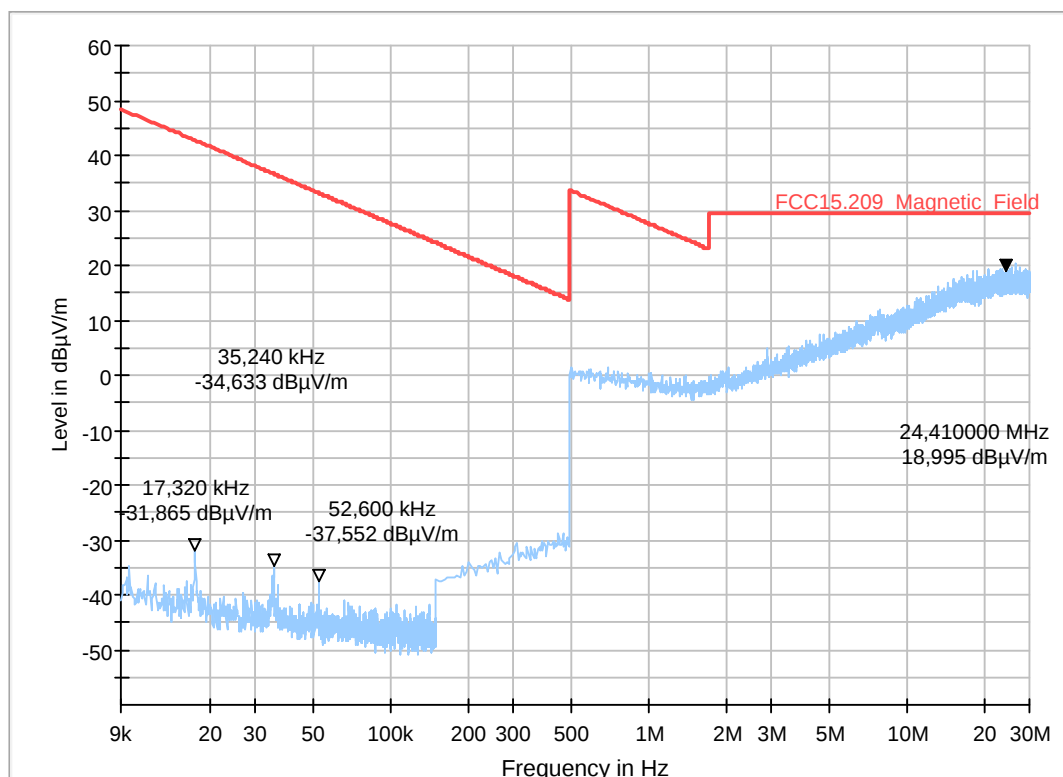
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n40-MIMO MCS0 ch9 P: 12
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.14_n20-MIMO_ch1

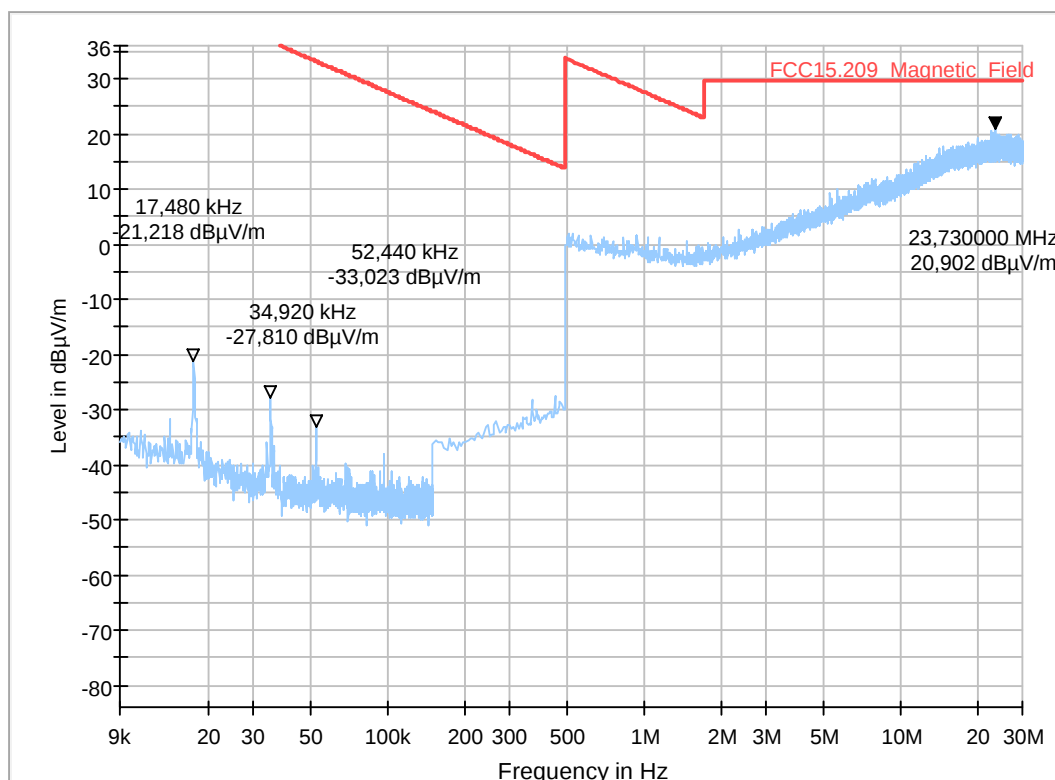
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n20-MIMO MCS0 ch1
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.15_n20-MIMO_ch6

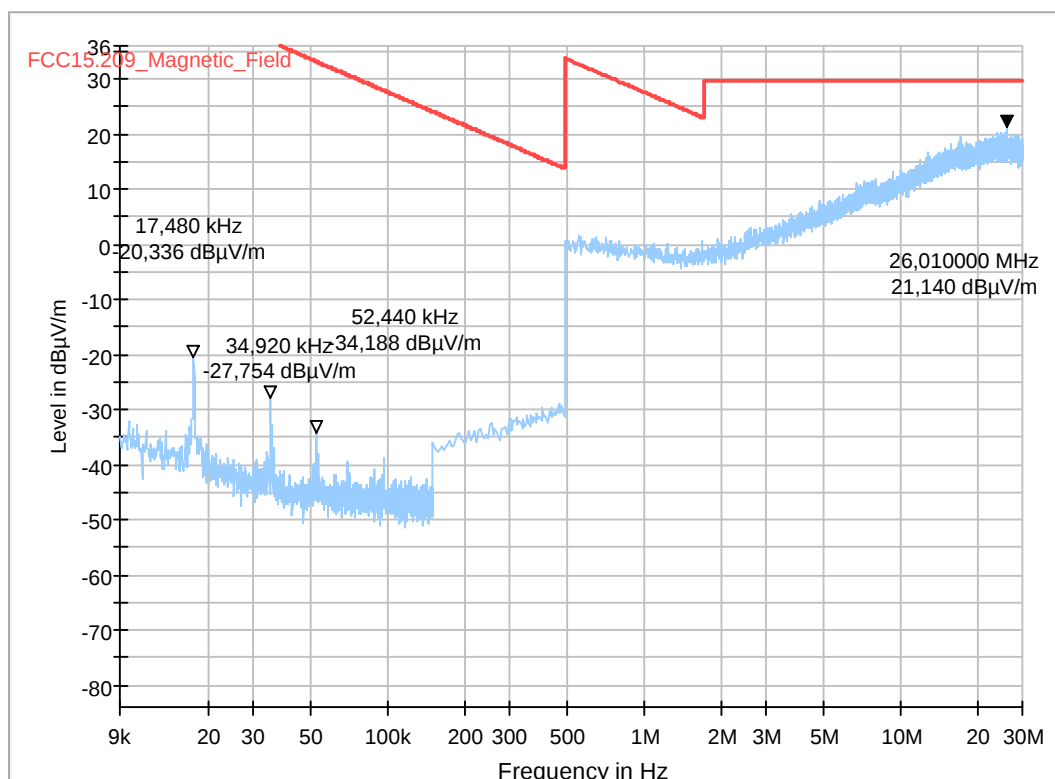
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n20-MIMO MCS0 ch6
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.16_n20-MIMO_ch11

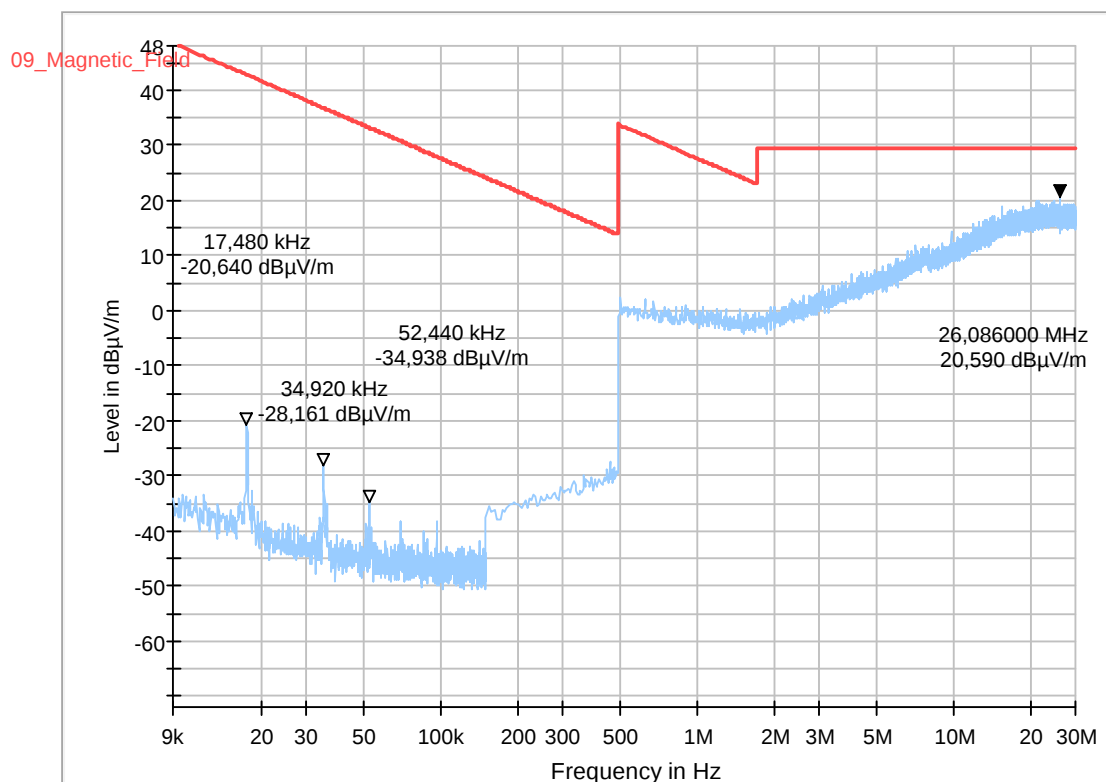
Common Information

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 Testsoftware:	EMC32 V10.60.20
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 polarisation
Used filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	ASa
Operating Mode:	n20-MIMO MCS0 ch11
Power during tests:	28 V DC
Comment 1:	EUT lying
Environmental Conditions:	Humidity: 50% rH; Temperature: 22.9 °C
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC

Full Spectrum



2.2 Radiated field strength emissions, 30 MHz-1 GHz

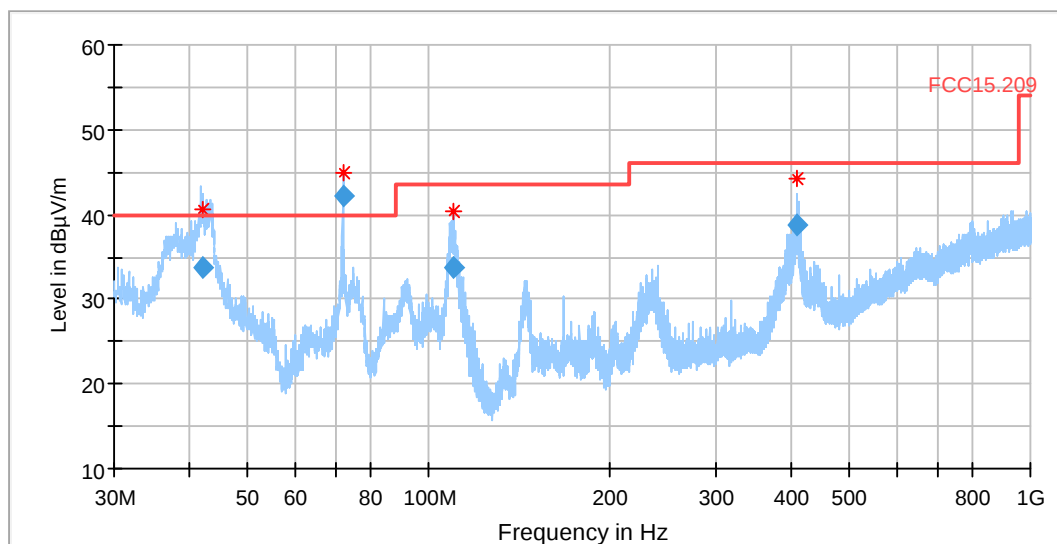
3.01_b-mode_ch1_lying

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50 %rH; Temperature: 20 °C
Operator Name:	ASa
EUT:	1
Operating Mode:	b-mode 1Mbps ch1 lying P:19
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final_Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
42.050000	33.82	40.00	6.18	120.000	105.0	V	154.0
109.738000	33.78	43.50	9.72	120.000	144.0	V	31.0
408.586000	38.88	46.00	7.12	120.000	254.0	H	176.0

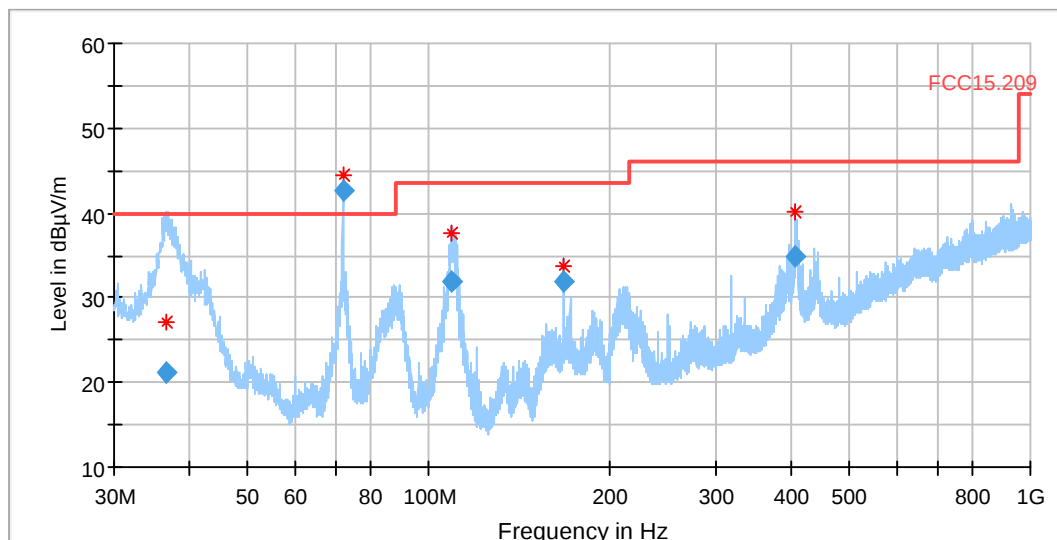
3.02_b-mode_ch1_standing

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50 %rH; Temperature: 20 °C
Operator Name:	ASa
EUT:	1
Operating Mode:	b-mode 1Mbps ch1 standing P:19
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.730000	21.22	40.00	18.78	120.000	167.0	H	126.0
109.258000	31.88	43.50	11.62	120.000	112.0	V	334.0
167.990000	31.86	43.50	11.64	120.000	108.0	V	341.0
407.610000	34.83	46.00	11.17	120.000	114.0	V	192.0

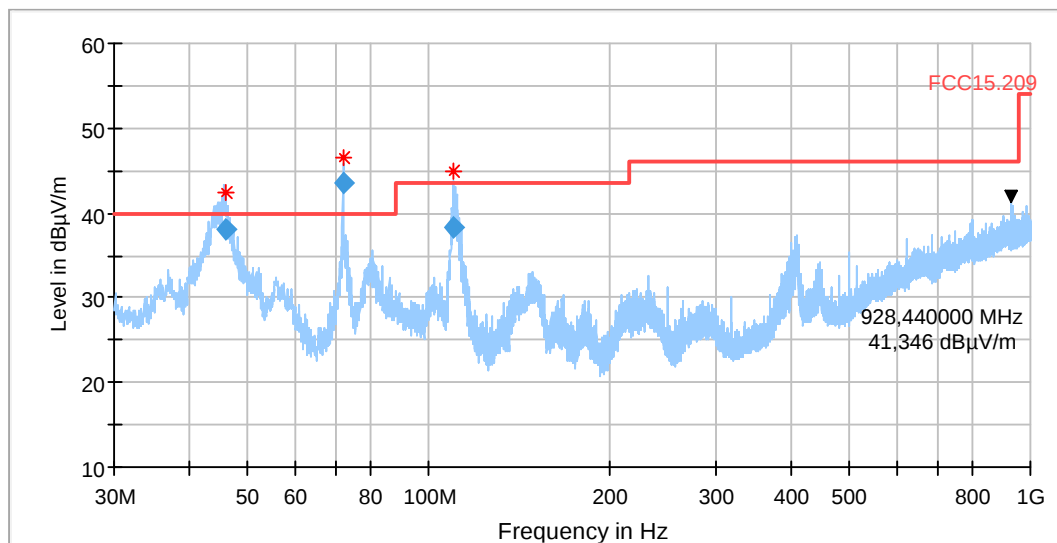
3.03_b-mode_ch6

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50 %rH; Temperature: 20 °C
Operator Name:	ASa
EUT:	1
Operating Mode:	b-mode 1Mbps ch6 P:21
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
45.866000	38.02	40.00	1.98	120.000	105.0	V	315.0
109.774000	38.26	43.50	5.24	120.000	130.0	V	0.0

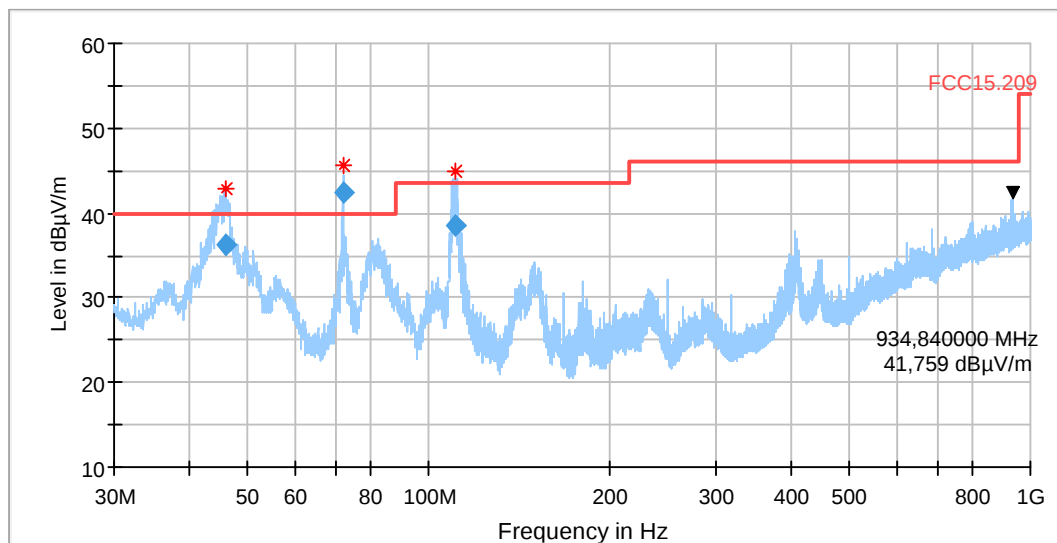
3.04_b-mode_ch11

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 50 %rH; Temperature: 20 °C
Operator Name:	ASa
EUT:	1
Operating Mode:	b-mode 1Mbps ch11 P:19
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.086000	36.27	40.00	3.73	120.000	119.0	V	282.0
111.094000	38.44	43.50	5.06	120.000	121.0	V	5.0

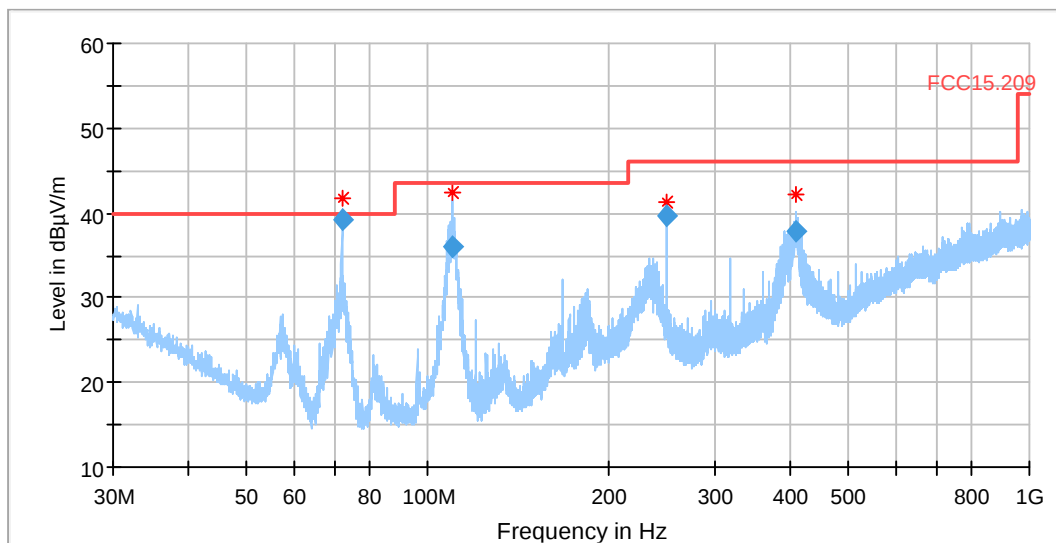
3.05_g-mode_ch1

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	TFra
Operating Mode:	g-mode 6Mbit ch1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	39.31	40.00	0.69	120.000	161.0	V	57.0	5.5
109.626000	35.96	43.50	7.54	120.000	290.0	H	185.0	6.5
249.994000	39.57	46.00	6.43	120.000	124.0	H	332.0	11.4
409.762000	37.91	46.00	8.09	120.000	104.0	H	351.0	17.1

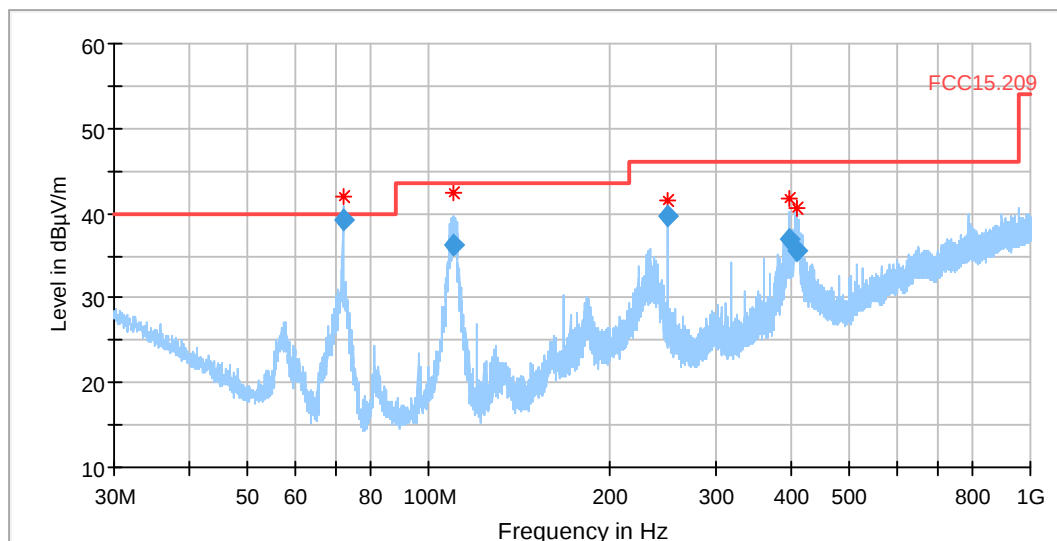
3.06_g-mode_ch6

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	TFra
Operating Mode:	g-mode 6Mbit ch6
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	39.15	40.00	0.85	120.000	200.0	V	70.0	5.5
109.686000	36.31	43.50	7.19	120.000	276.0	H	144.0	6.5
249.994000	39.66	46.00	6.34	120.000	114.0	H	334.0	11.4
395.998000	36.93	46.00	9.07	120.000	100.0	H	331.0	17.4
410.798000	35.51	46.00	10.49	120.000	200.0	H	181.0	17.1

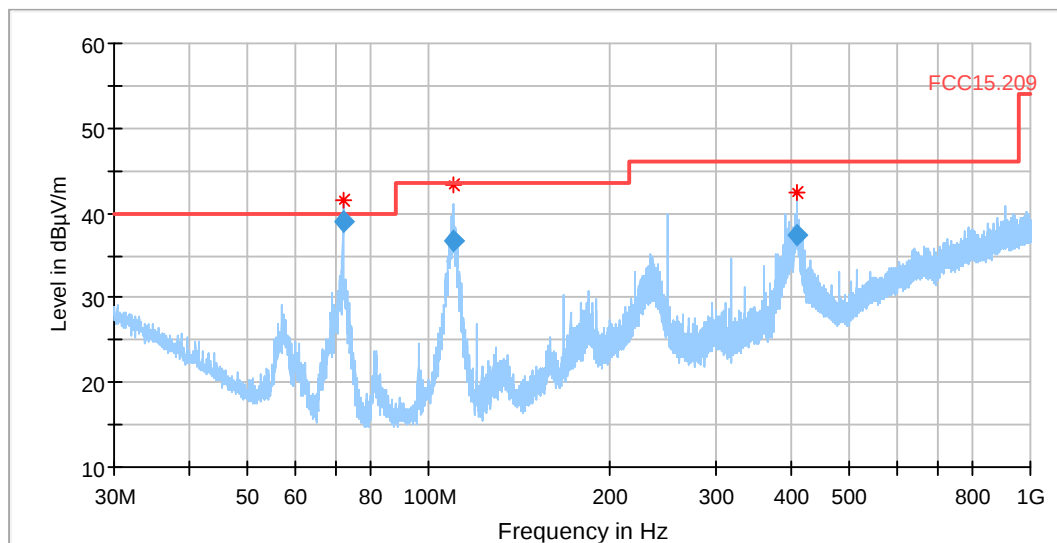
3.07_g-mode_ch11

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	TFra
Operating Mode:	g-mode 6Mbit ch11
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	38.91	40.00	1.09	120.000	216.0	V	64.0	5.5
110.022000	36.62	43.50	6.88	120.000	242.0	H	156.0	6.5
408.434000	37.32	46.00	8.68	120.000	104.0	H	0.0	17.1

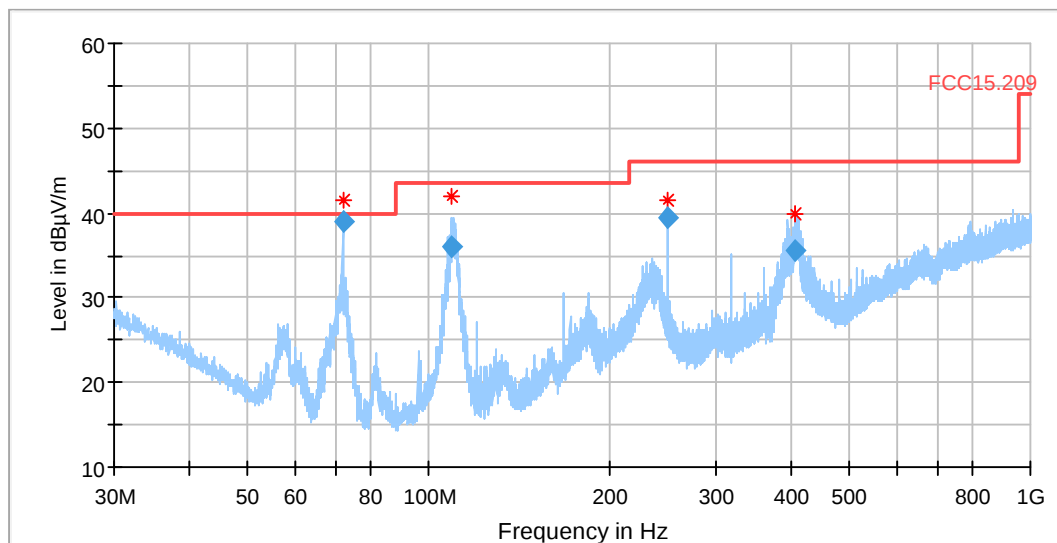
3.08_n40-mode_ch3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	TFra
Operating Mode:	n40-mode MCS0 ch3
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	39.05	40.00	0.95	120.000	134.0	V	343.0	5.5
109.210000	36.01	43.50	7.49	120.000	279.0	H	148.0	6.6
249.994000	39.56	46.00	6.44	120.000	146.0	H	326.0	11.4
407.622000	35.58	46.00	10.42	120.000	199.0	H	175.0	17.1

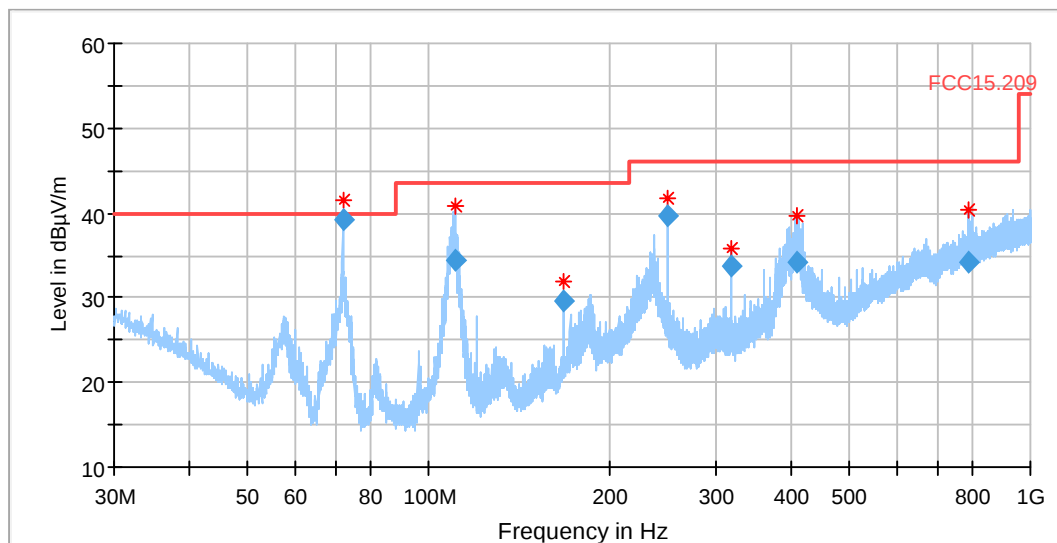
3.09_n40-mode_ch6

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	TFra/PShin
Operating Mode:	n40-mode MCS0 ch6
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	39.18	40.00	0.82	120.000	105.0	V	0.0	5.5
110.650000	34.38	43.50	9.12	120.000	299.0	H	111.0	6.5
167.990000	29.70	43.50	13.80	120.000	191.0	H	136.0	8.5
249.994000	39.68	46.00	6.32	120.000	121.0	H	322.0	11.4
319.370000	33.85	46.00	12.15	120.000	100.0	H	339.0	13.9
407.902000	34.12	46.00	11.88	120.000	190.0	H	169.0	17.1
792.254000	34.30	46.00	11.70	120.000	360.0	V	307.0	22.5

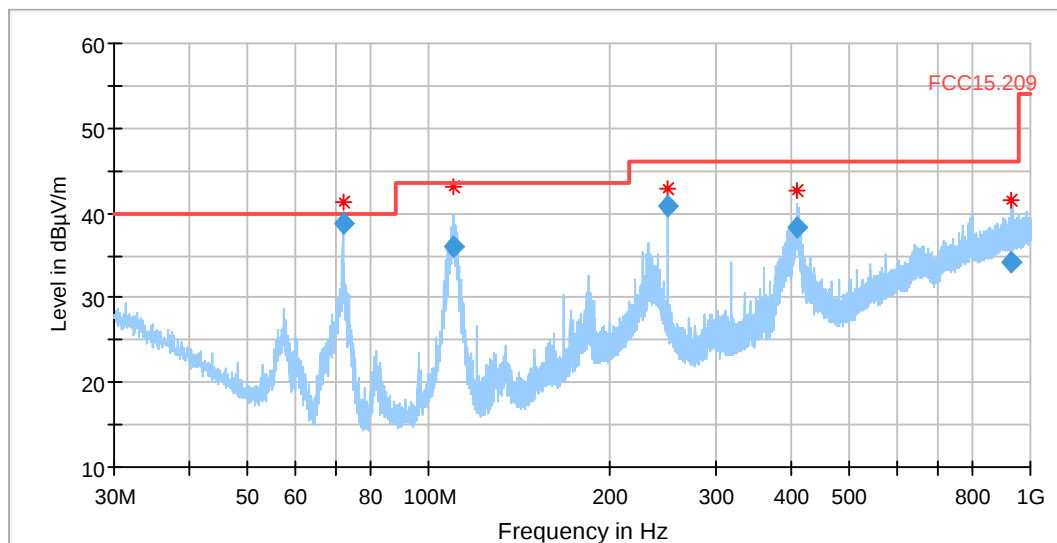
3.10_n40-mode_ch9

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin
Operating Mode:	n40-mode MCS0 ch9
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
110.254000	36.07	43.50	7.43	120.000	280.0	H	150.0	6.5
249.994000	40.87	46.00	5.13	120.000	111.0	H	326.0	11.4
408.310000	38.33	46.00	7.67	120.000	100.0	H	354.0	17.1
929.950000	34.14	46.00	11.86	120.000	255.0	V	173.0	23.6

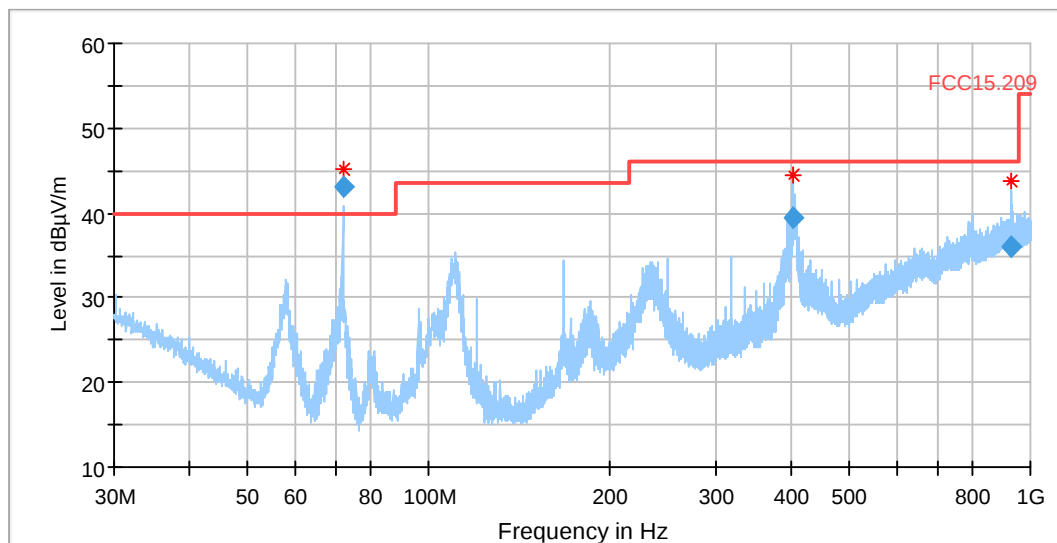
3.11_n40-MIMO_ch3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetekom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin
Operating Mode:	n40-MIMO MCS0 ch3
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
404.022000	39.53	46.00	6.47	120.000	100.0	H	0.0	17.2
929.910000	35.96	46.00	10.04	120.000	164.0	H	153.0	23.6

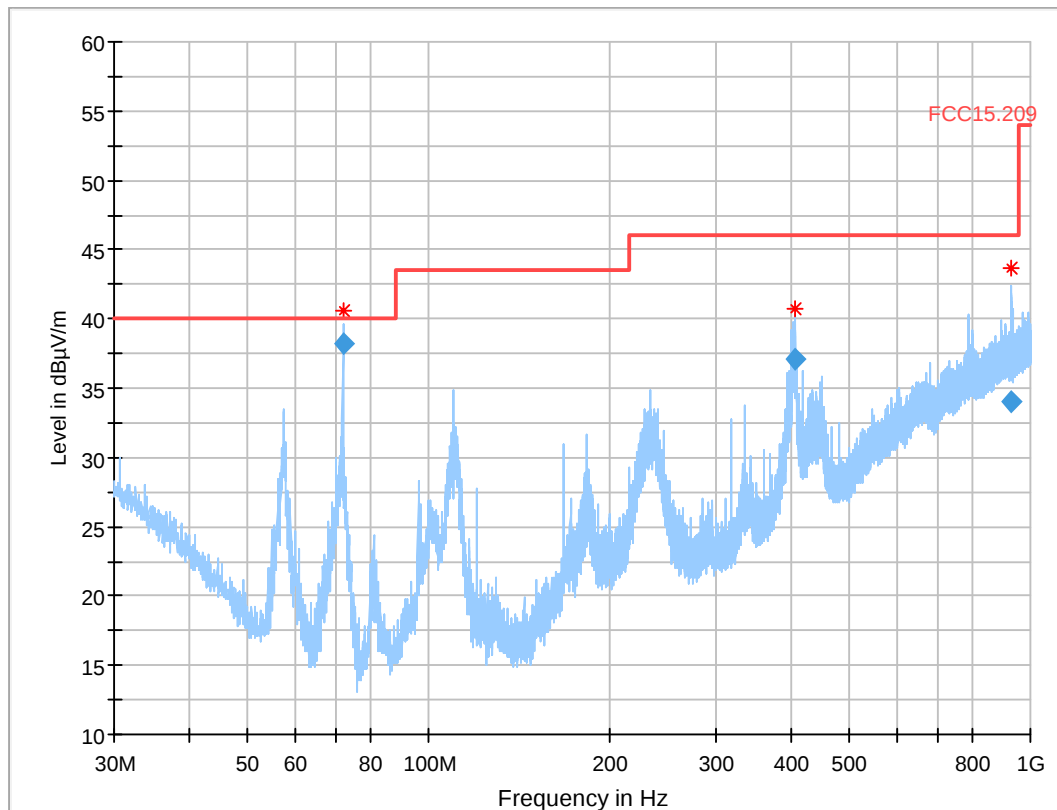
3.12_n40-MIMO_ch6

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin/PSt
Operating Mode:	n40-MIMO MCS0 ch6
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	38.25	40.00	1.75	120.000	161.0	V	0.0	5.5
405.134000	37.08	46.00	8.92	120.000	100.0	H	173.0	17.1
929.274000	34.05	46.00	11.95	120.000	132.0	H	47.0	23.6

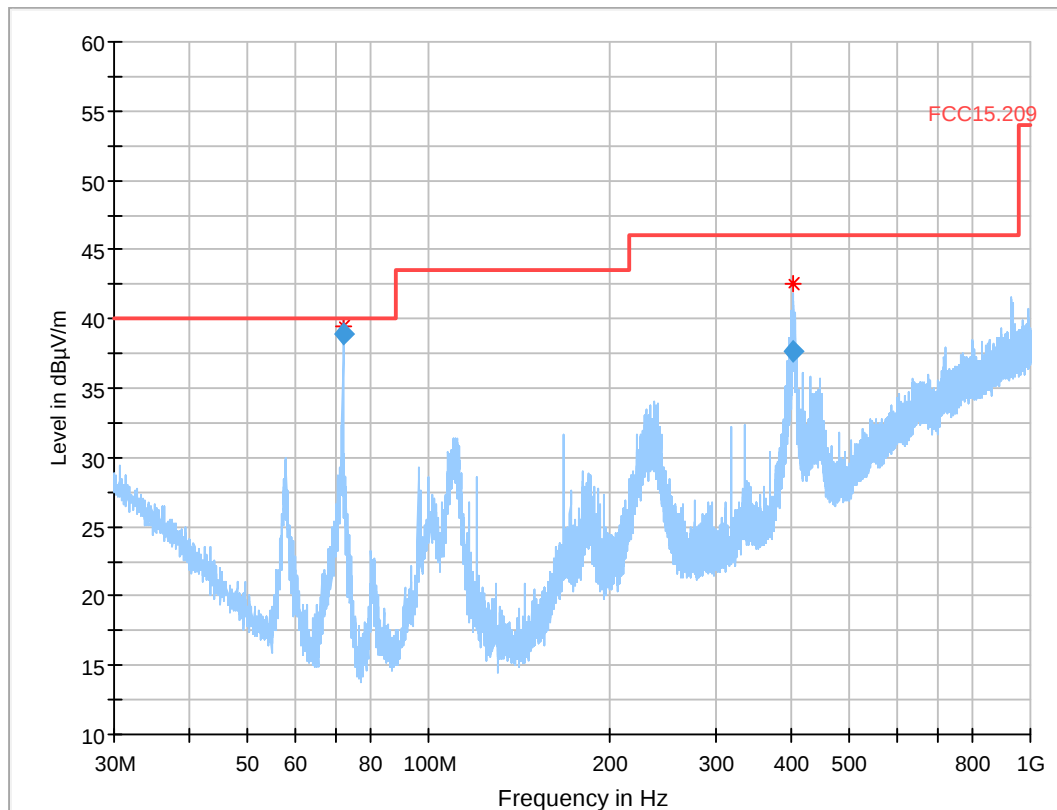
3.13_n40-MIMO_ch9

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin/PSt
Operating Mode:	n40-MIMO MCS0 ch9
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
71.998000	38.93	40.00	1.07	120.000	185.0	V	27.0	5.5
402.454000	37.60	46.00	8.40	120.000	215.0	H	186.0	17.2

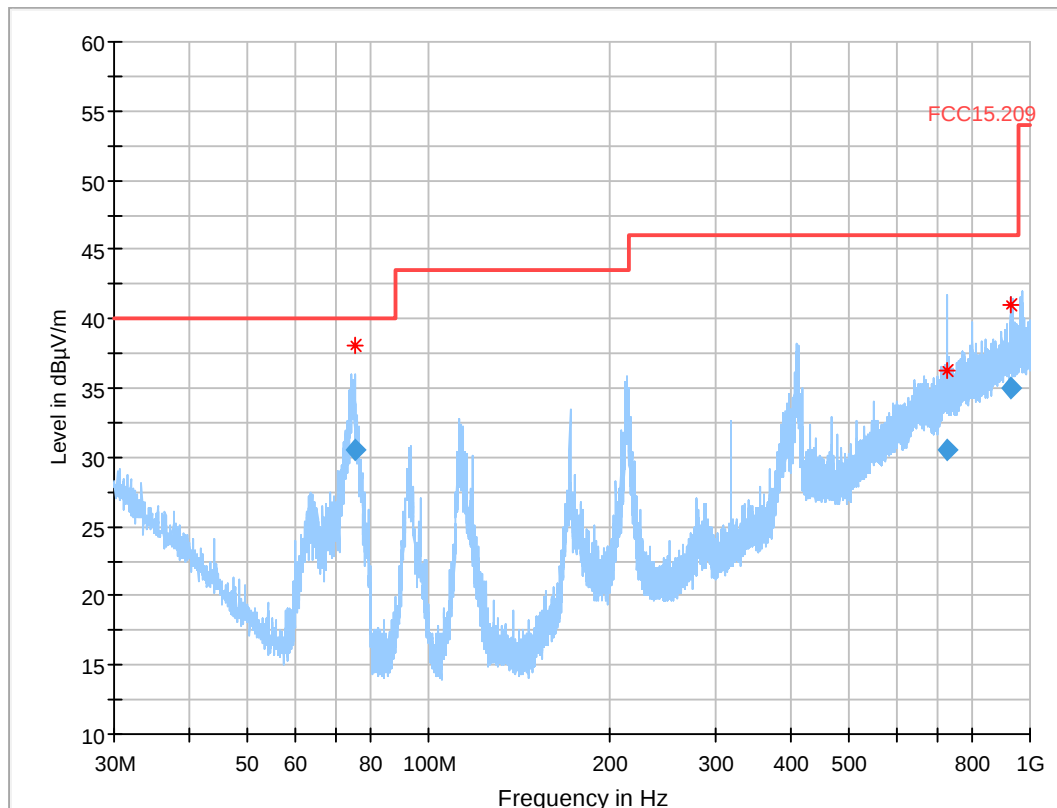
3.14_n20-MIMO_ch1

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin/PSt
Operating Mode:	n20-MIMO MCS0 ch1
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Remark: 72MHz is non-restrict band

Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
75.234000	30.59	40.00	9.41	120.000	111.0	V	266.0	5.5
727.862000	30.55	46.00	15.45	120.000	251.0	H	161.0	22.2
928.898000	35.05	46.00	10.95	120.000	137.0	H	282.0	23.6

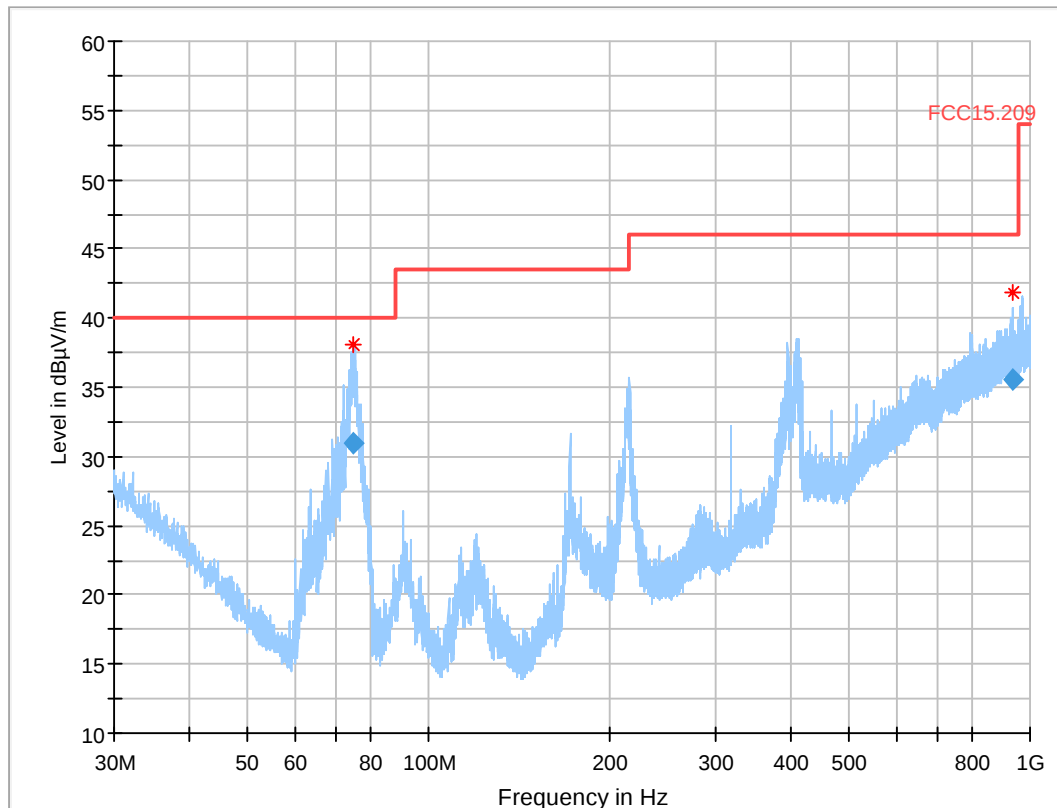
3.15_n20-MIMO_ch6

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin/PSt
Operating Mode:	n20-MIMO MCS0 ch6
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
74.802000	30.99	40.00	9.01	120.000	153.0	V	310.0	5.5
934.806000	35.60	46.00	10.40	120.000	298.0	V	241.0	23.7

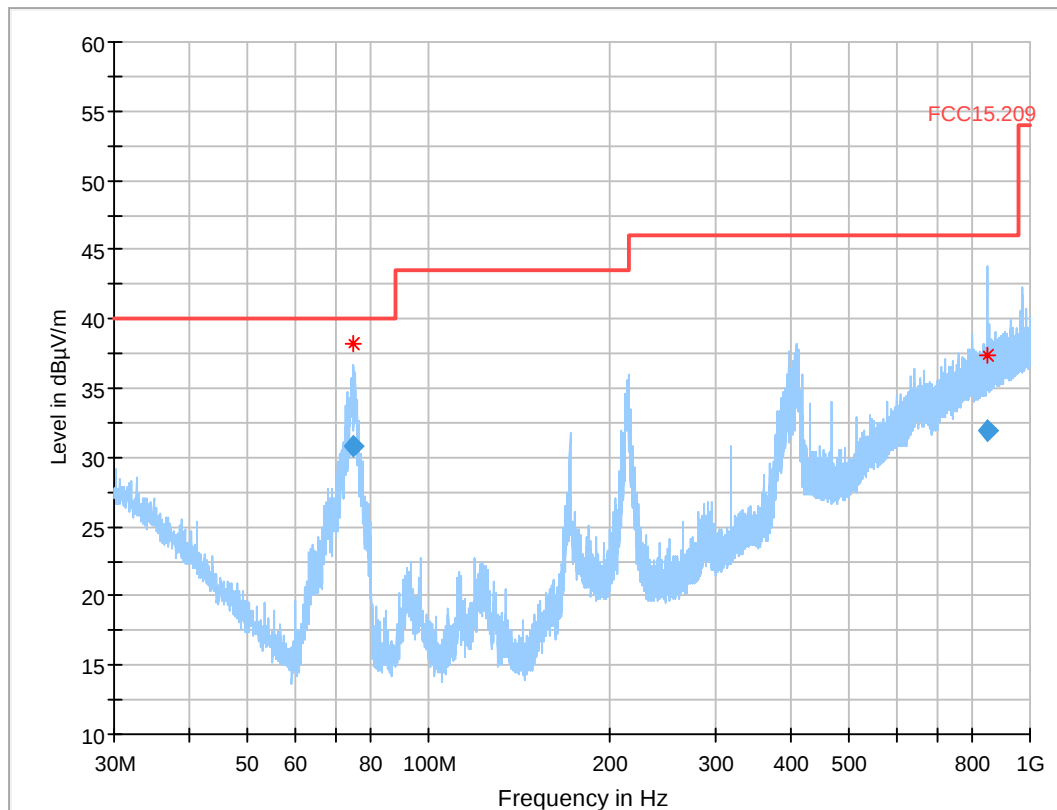
3.16_n20-MIMO_ch11

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	cetecom advanced GmbH (Essen)
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions:	Humidity: 42 %rH, Temperature: 22 °C
Operator Name:	PShin/PSt
Operating Mode:	n20-MIMO MCS0 ch11
Verdict:	Passed

EUT Information

PMT number:	24-1-00398S02_C01
Power:	28 V DC



Final Result

Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Trd Corr. (dB/m)
74.766000	30.78	40.00	9.22	120.000	187.0	V	235.0	5.5
847.954000	31.94	46.00	14.06	120.000	161.0	V	232.0	23.2

2.3 Radiated emissions, 1-18 GHz

4.01_b-mode_ch1

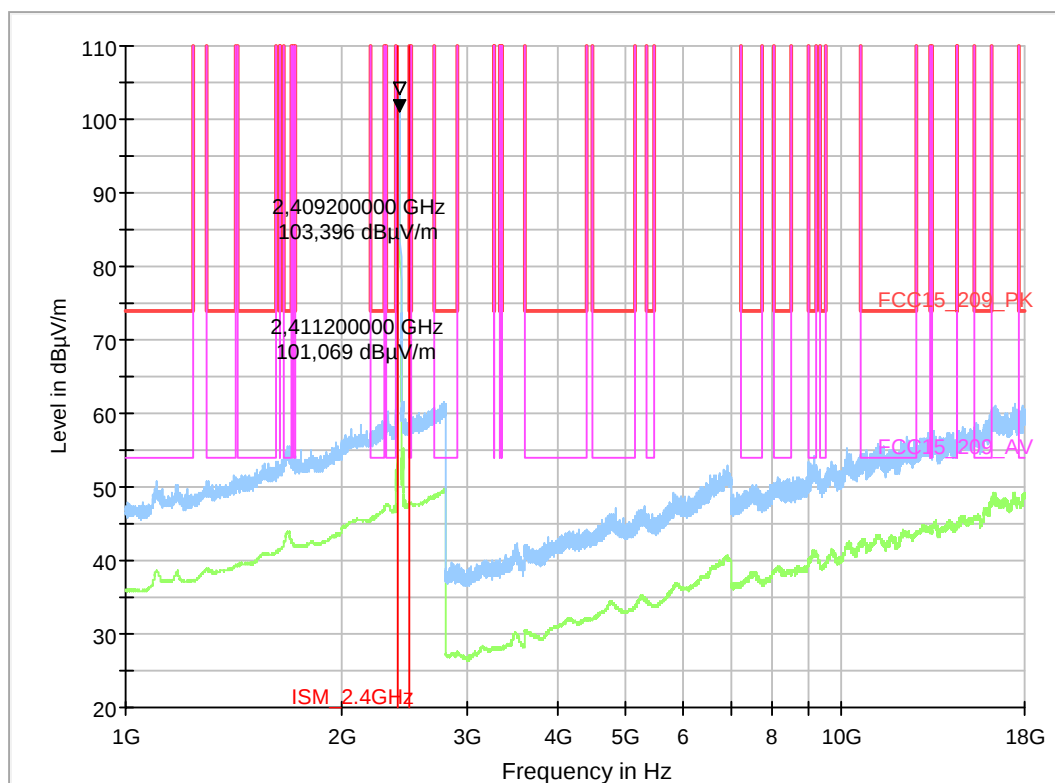
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	b-mode 1Mbps ch1
Operator:	KTe
Comment:	SISO
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.02_b-mode_ch6

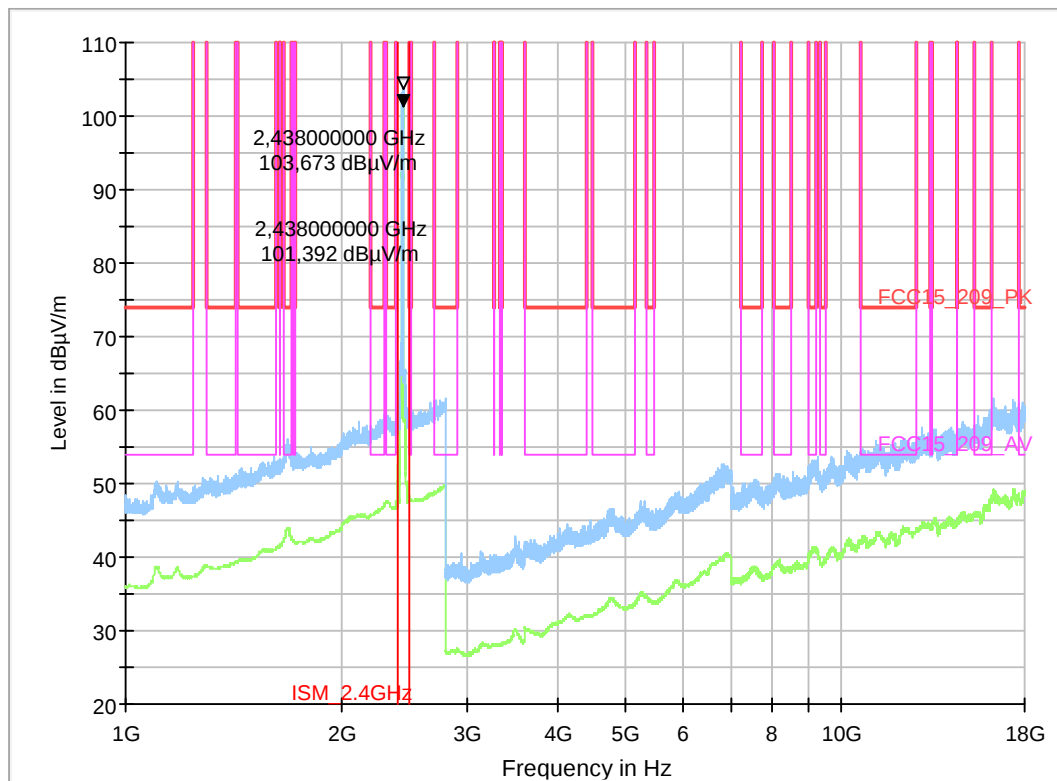
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	b-mode 1Mbps ch6
Operator:	PShin
Comment:	SISO
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.03_b-mode_ch11

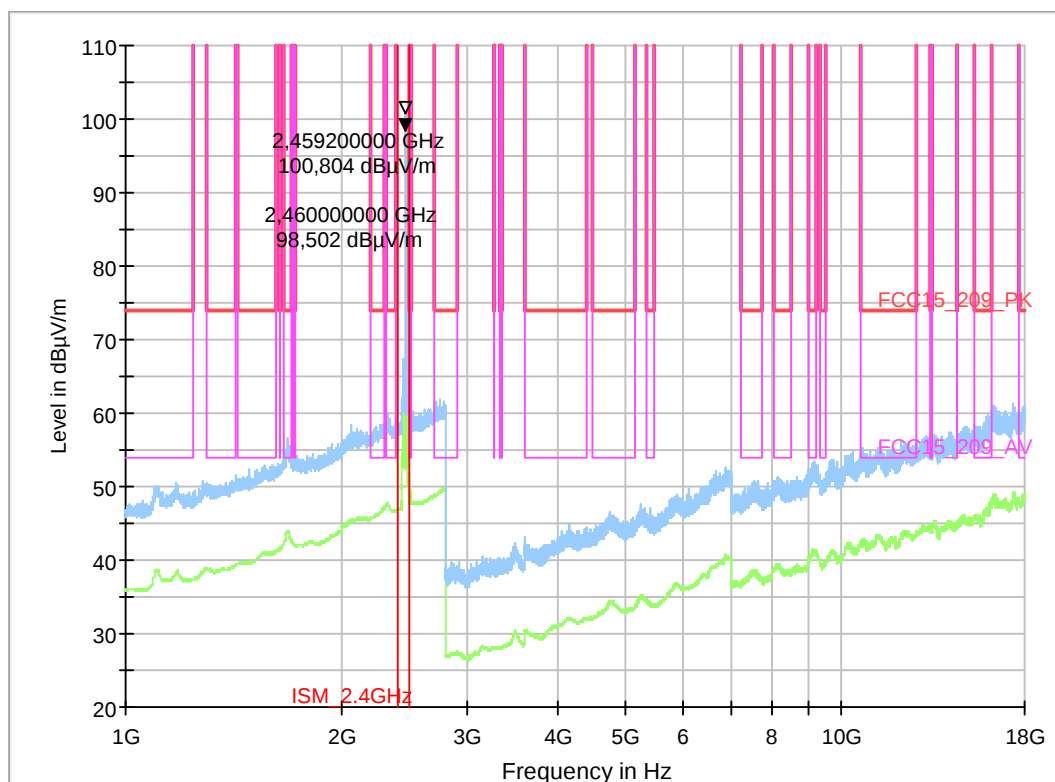
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	b-mode 1Mbps ch11
Operator:	PShin / PSt
Comment:	SISO
Environmental Conditions:	Humidity: 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.04_g-mode_ch1

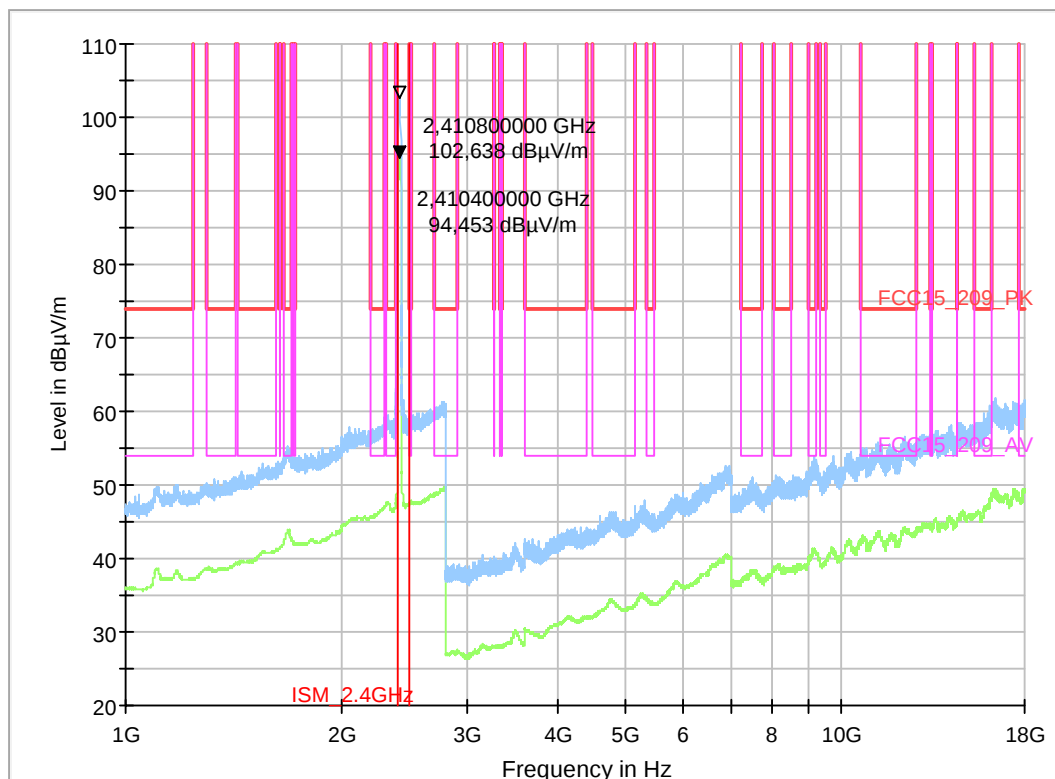
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbit ch1
Set-up no.	1
Operator:	SOz
Comment:	Channel no. I1
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00487S02_C01
Power Supply :	internal battery

Full Spectrum



4.05_g-mode_ch6

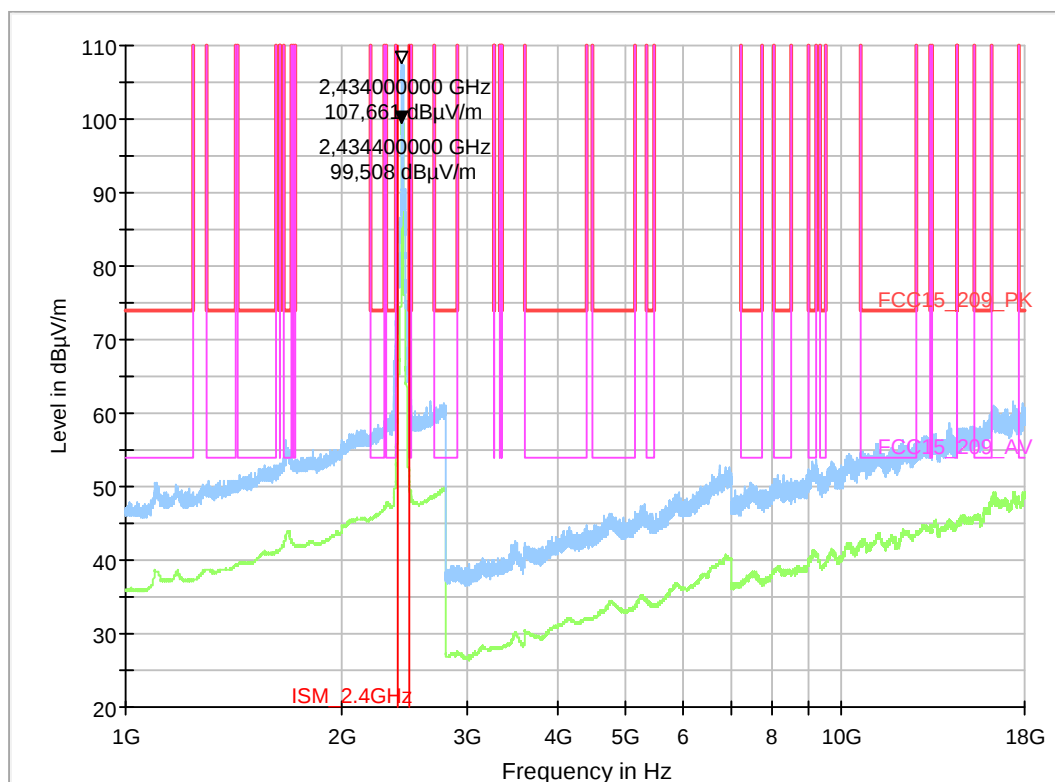
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbit ch6
Operator:	KTe
Comment:	SISO
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.06_g-mode_ch11

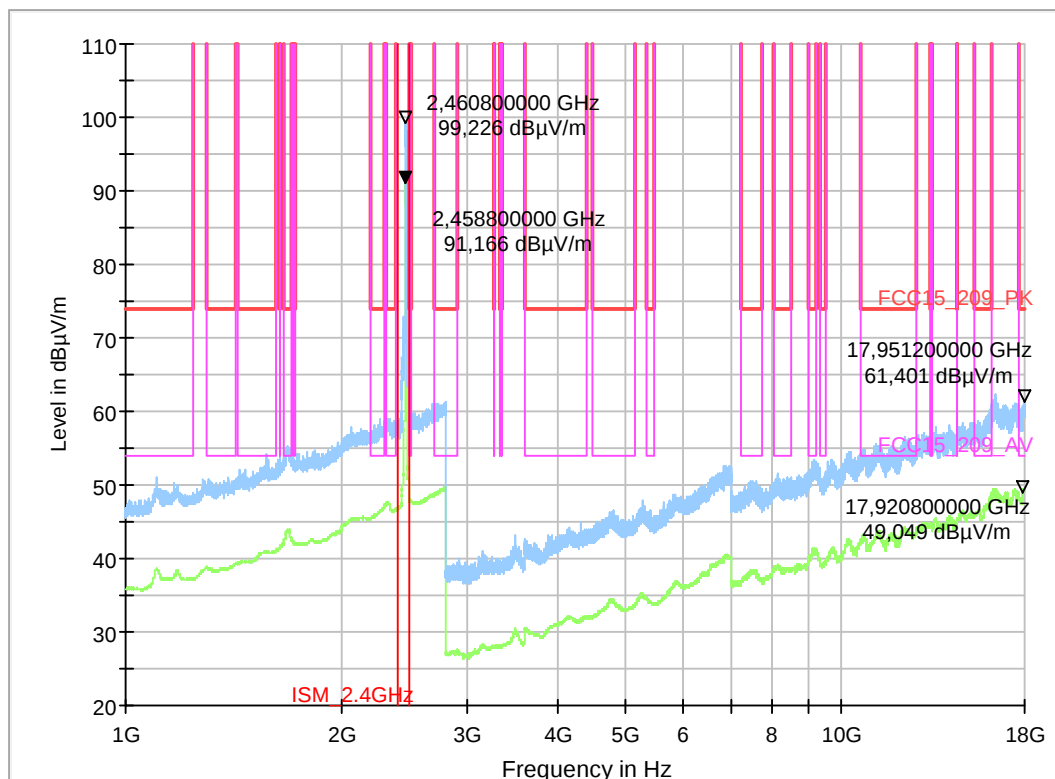
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbit ch11
Set-up no.	1
Operator:	SOz
Comment:	Channel no. 11
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00487S02_C01
Power Supply :	internal battery

Full Spectrum



4.07_n40-mode_ch3

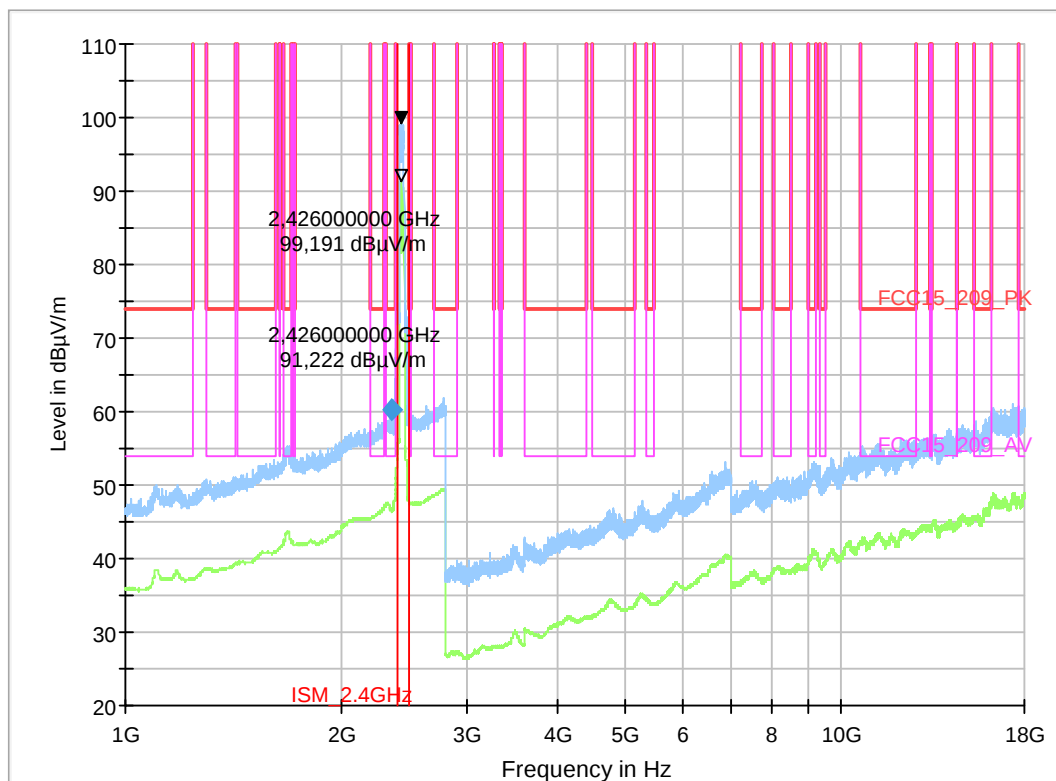
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-mode MCS0 ch3
Set-up no.	1
Operator:	PShin
Comment:	Channel no. low
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2354.970000	60.17	---	74.00	13.83	100.0	1000.000	155.0	H	354.0	0.0

4.08_n40-mode_ch6

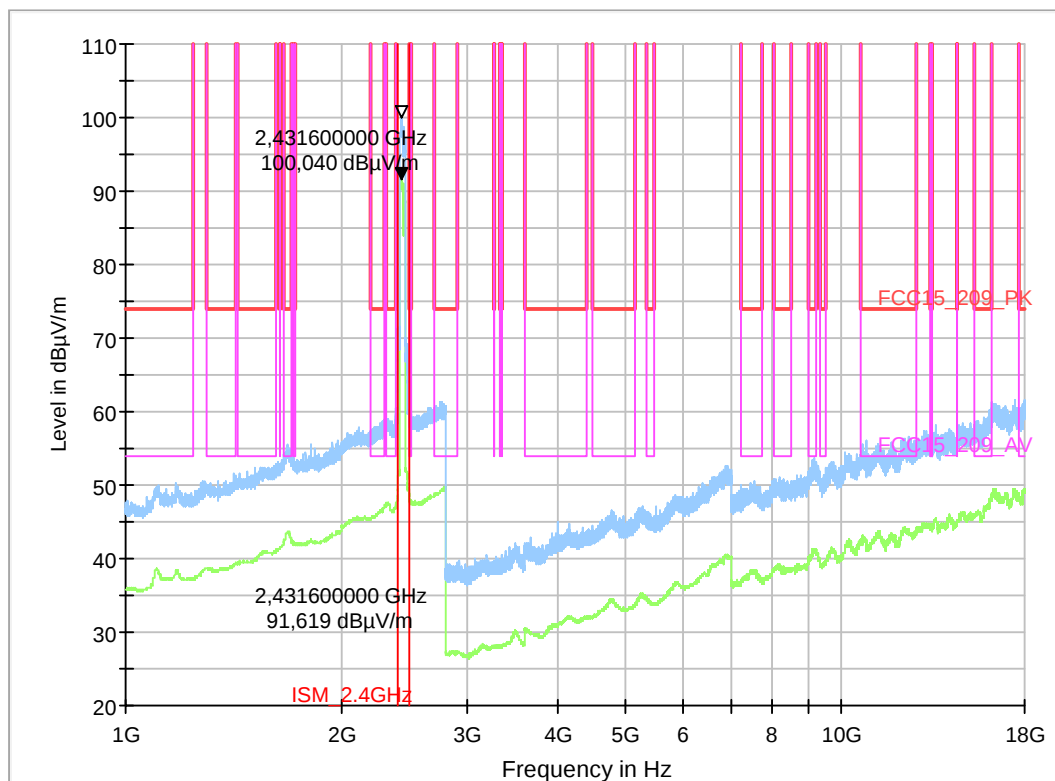
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-mode MCS0 ch6 P: 13
Set-up no.	1
Operator:	PSt
Comment:	
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.09_n40-mode_ch9

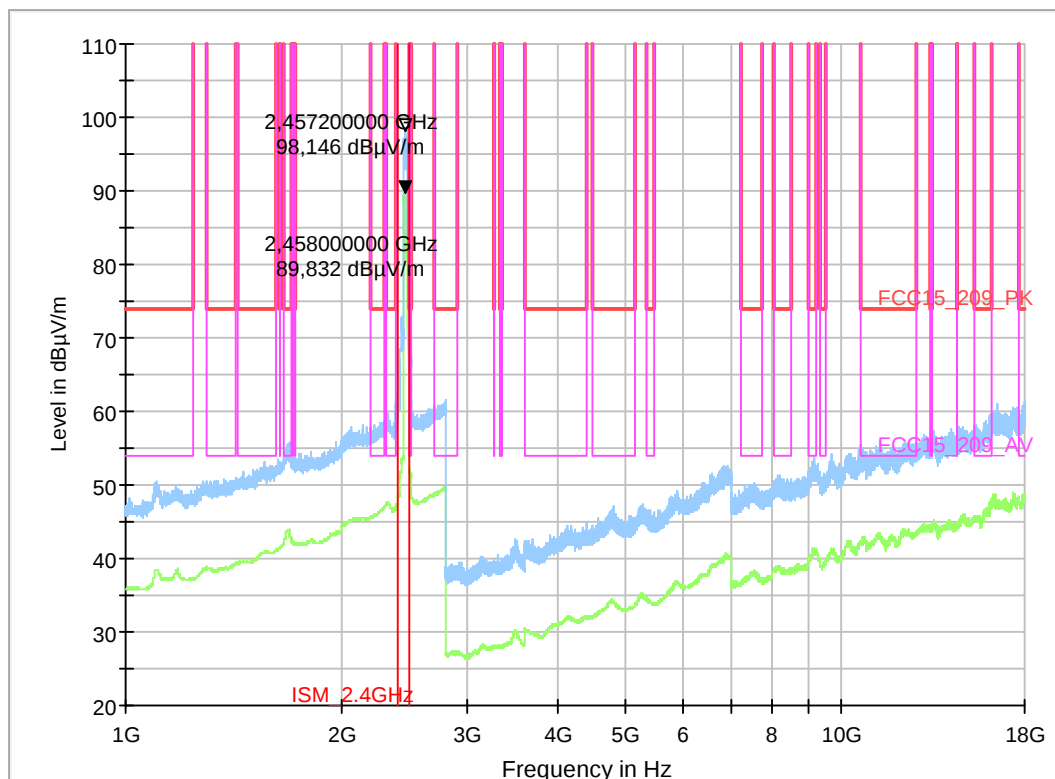
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-mode MCS0 ch9
Set-up no.	1
Operator:	Leic/PShin
Comment:	Channel no. high
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.10_n40-MIMO_ch3

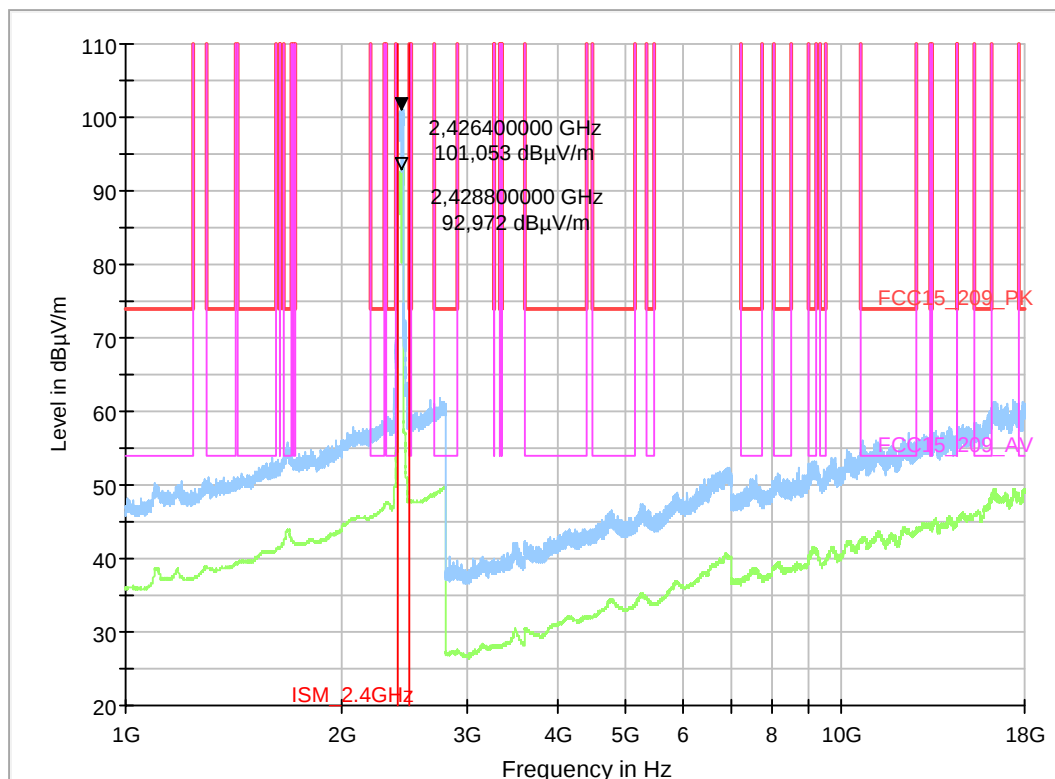
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-MIMO MCS0 ch3 P:12
Set-up no.	1
Operator:	SOz/PShin
Comment:	Channel no. 3
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.11_n40-MIMO_ch6

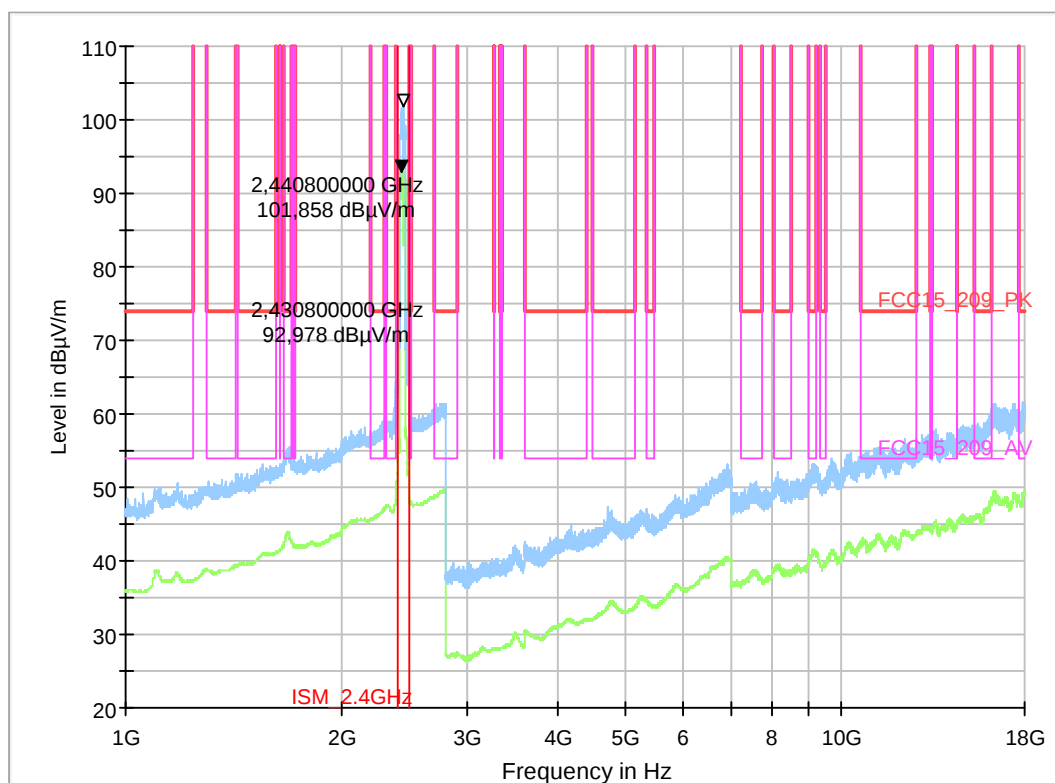
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-MIMO MCS0 ch6
Set-up no.	1
Operator:	PShin
Comment:	Channel no. 6
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.12_n40-MIMO_ch9

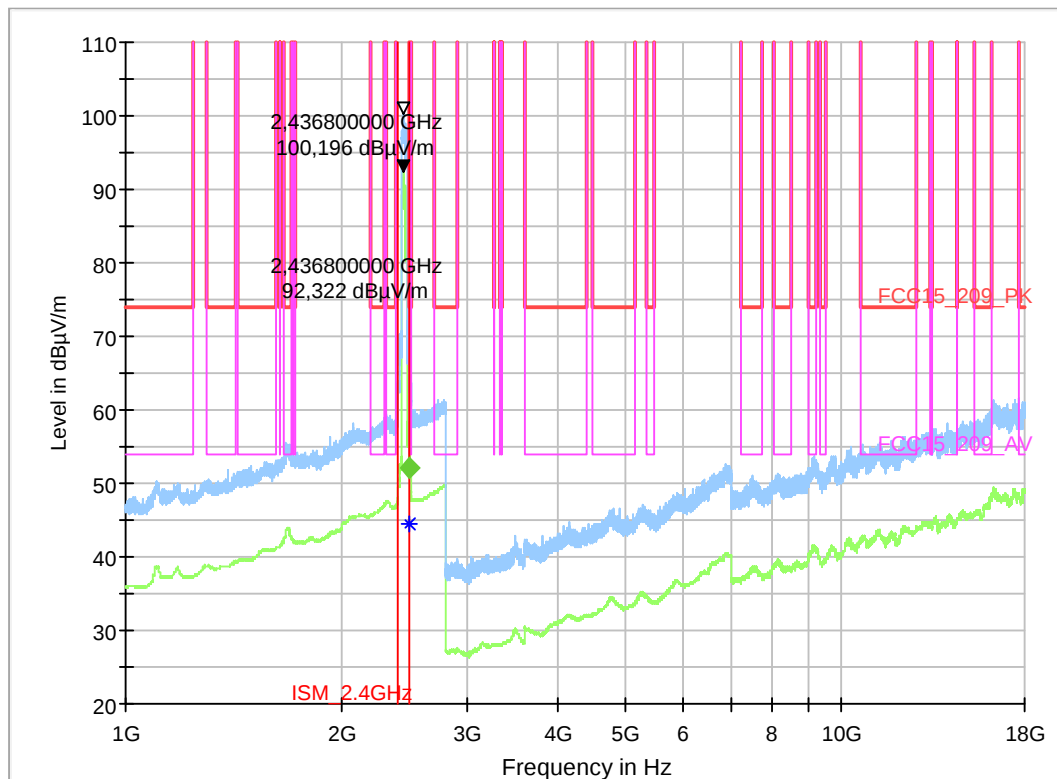
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-MIMO MCS0 ch9
Set-up no.	1
Operator:	PShin
Comment:	Channel no. 9
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.13_n20-MIMO_ch1

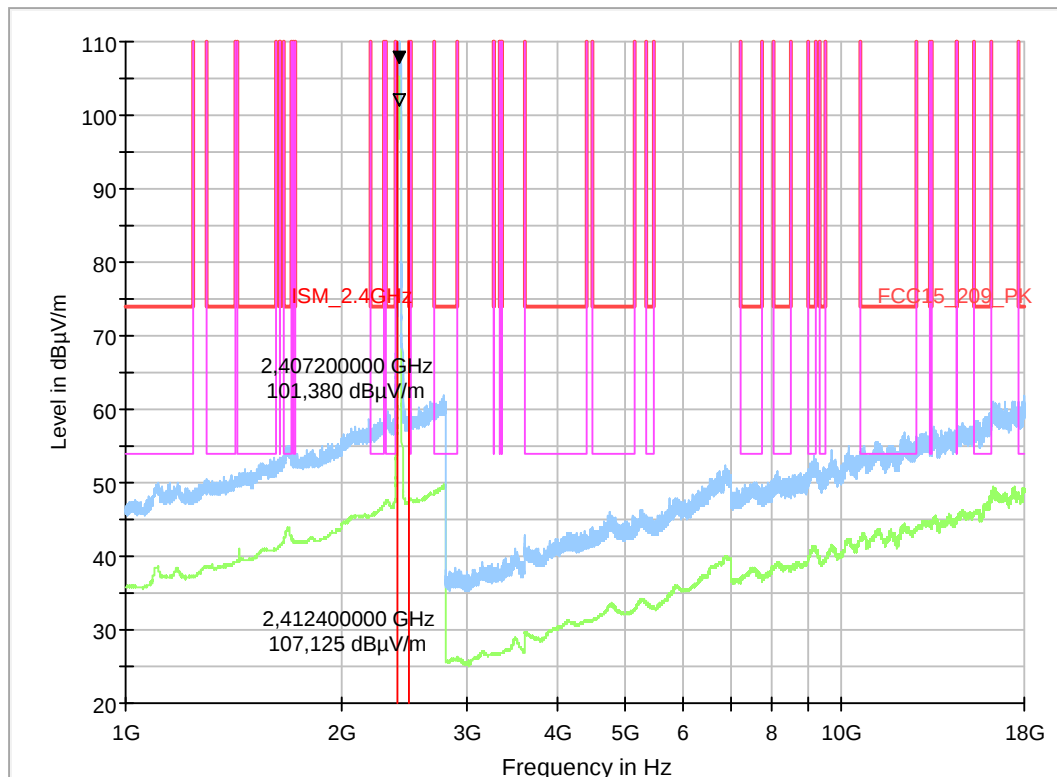
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-MIMO MCS0 ch1
Set-up no.	1
Operator:	PShin
Comment:	Channel no. 1
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.14_n20-MIMO_ch6

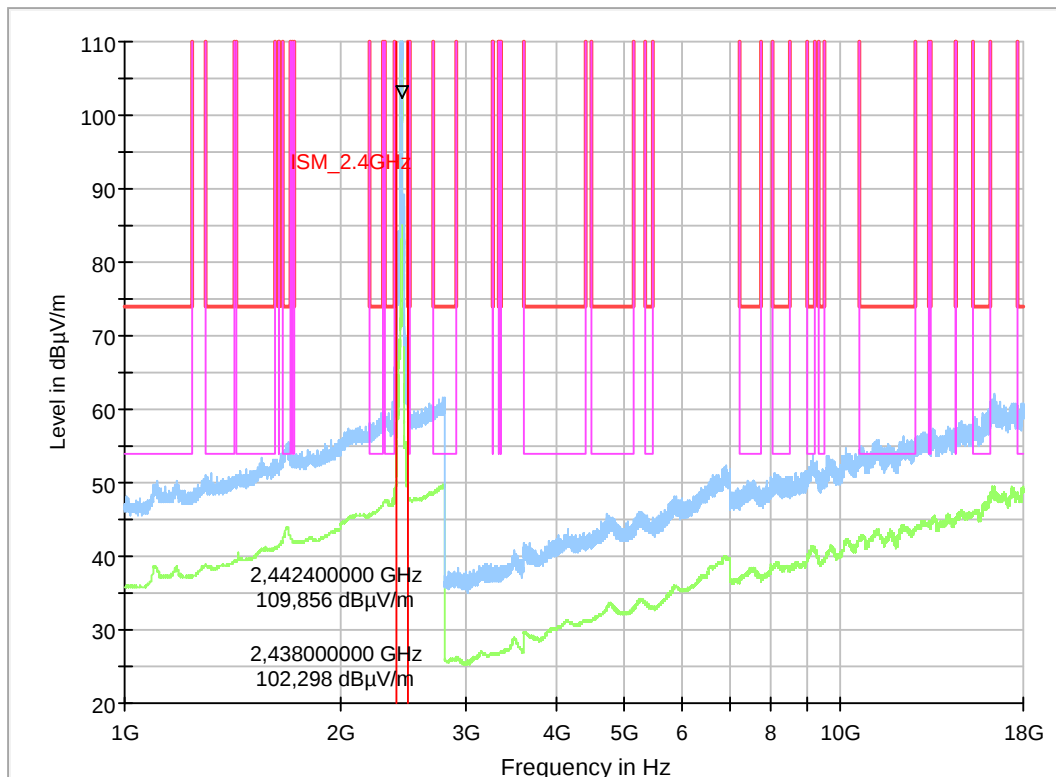
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-MIMO MCS0 ch6
Set-up no.	1
Operator:	PShin
Comment:	Channel no. 6
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



4.15_n20-MIMO_ch11

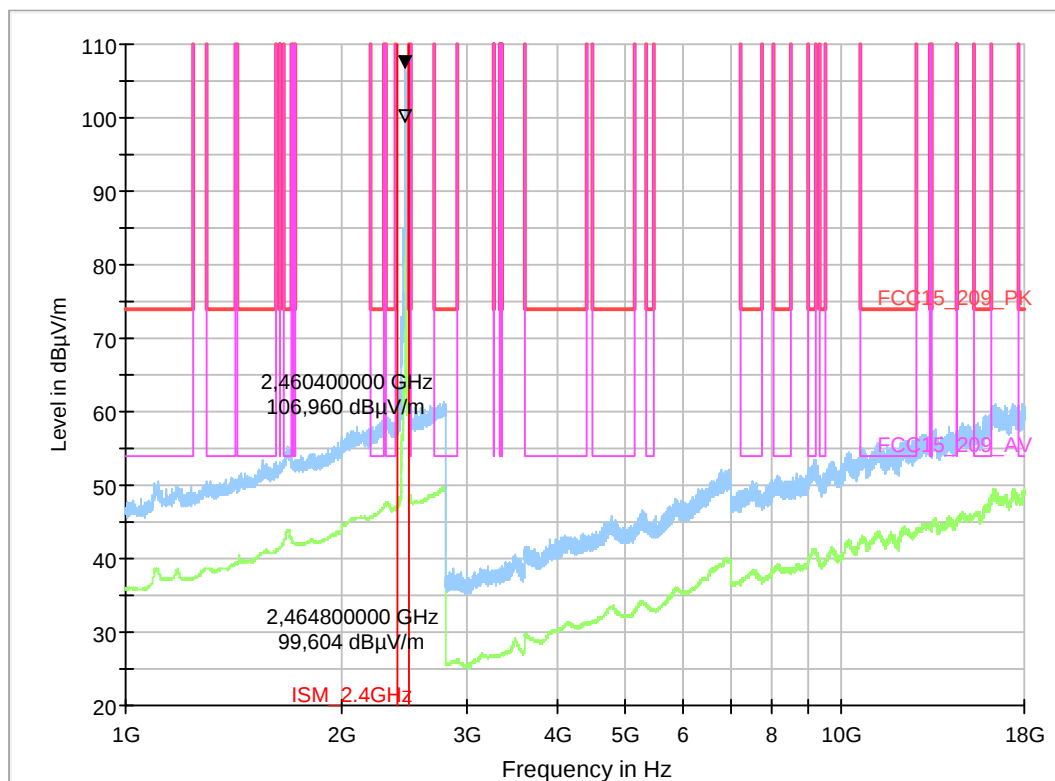
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-MIMO MCS0 ch11
Set-up no.	1
Operator:	PSt
Comment:	
Environmental Conditions:	Humidity: 50 % rH; Temperature: 20 °C
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



2.4 Radiated emissions, 18-26.5 GHz

4.30_b-mode_ch1_Lying

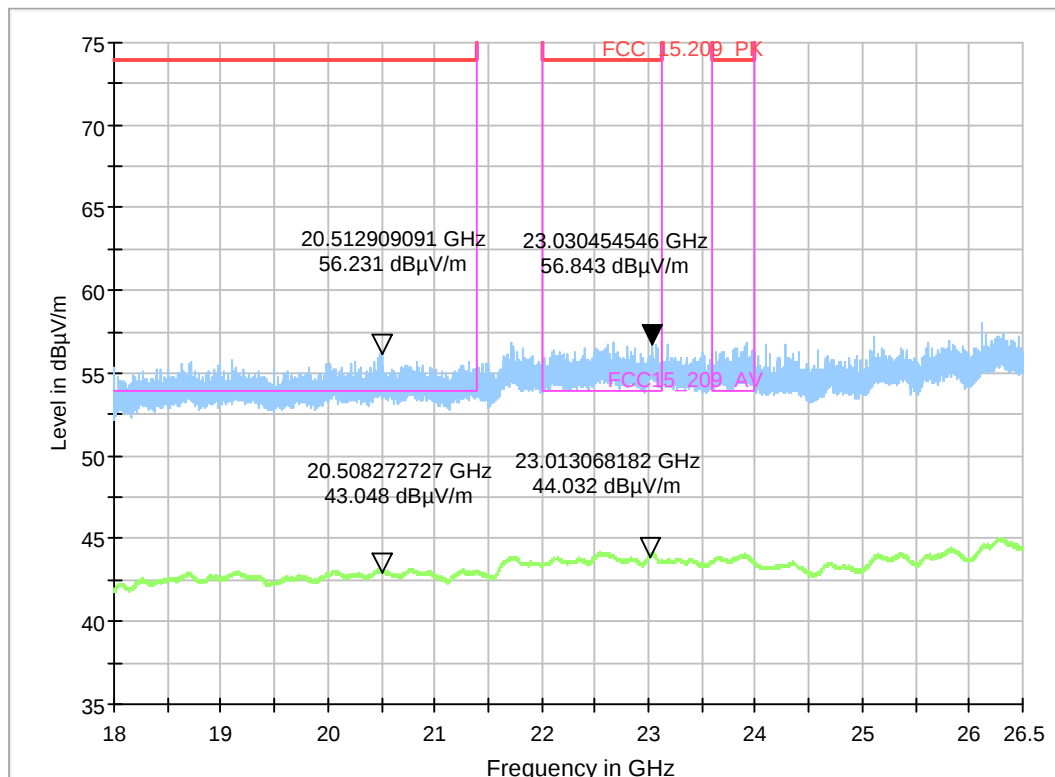
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Section	-
Operating Mode:	b-mode 1Mbps ch1
Equipment Class:	Class B
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	PShin
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.31_b-mode_ch1_Standing

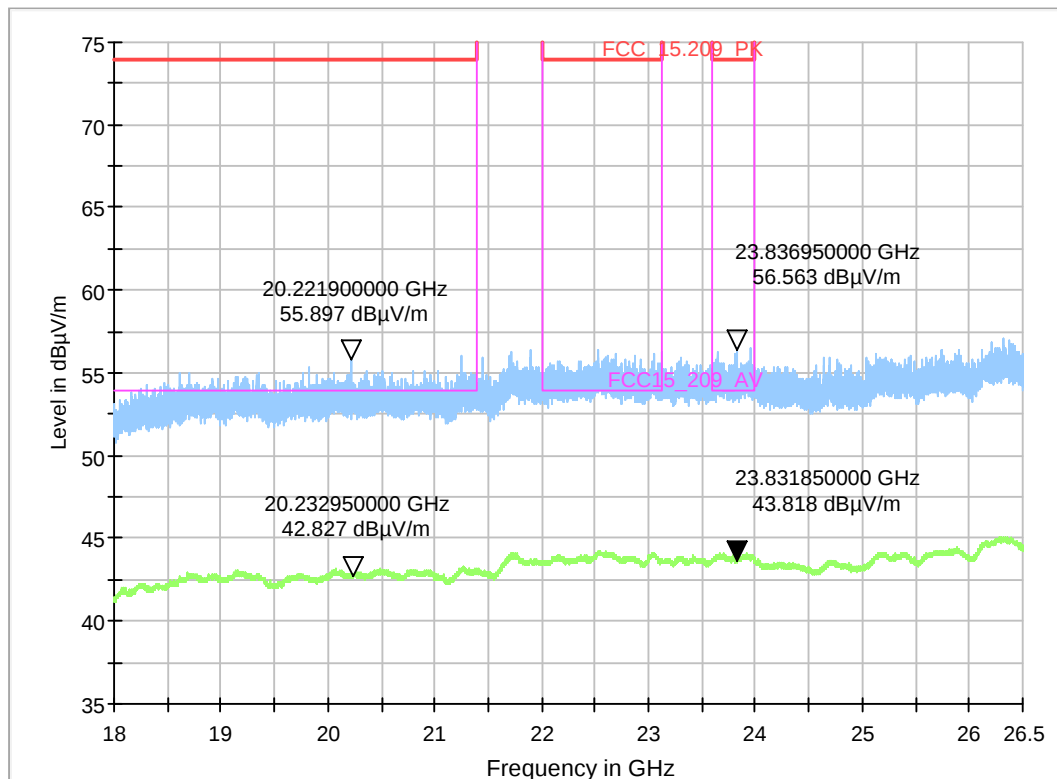
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	b-mode 1Mbps ch1
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.32_b-mode_ch6_Lying

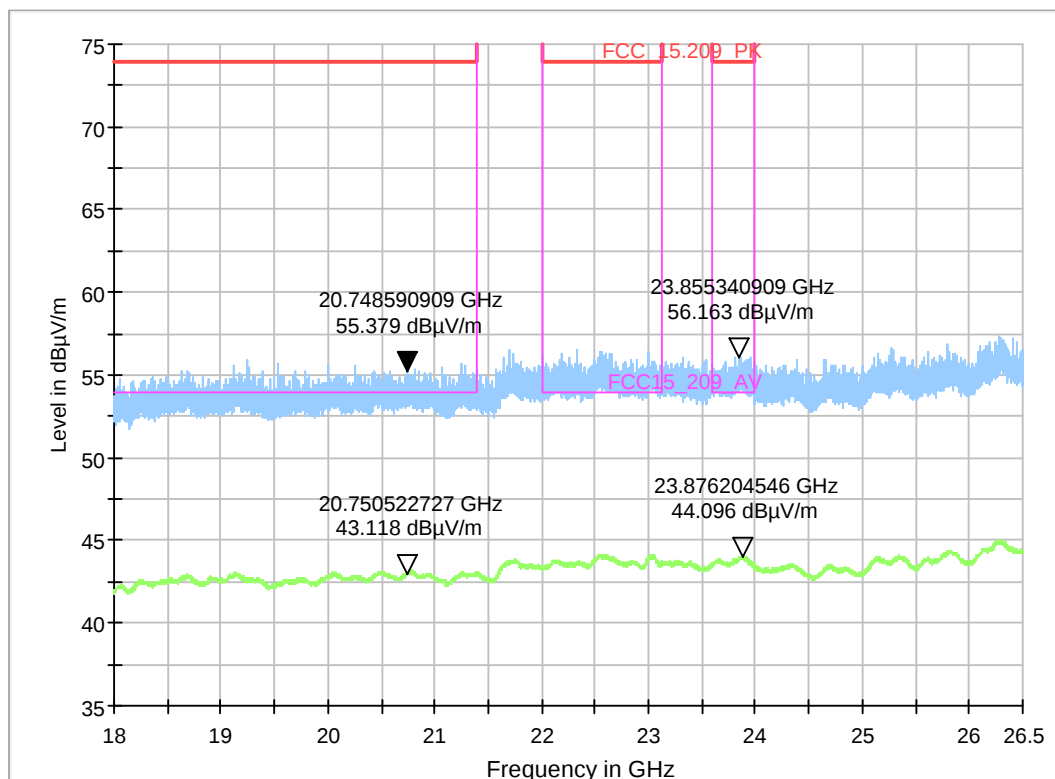
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Section:	-
Operating Mode:	b-mode 1Mbps ch6
Equipment Class:	Class B
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	PShin
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.33_b-mode_ch6_Standing

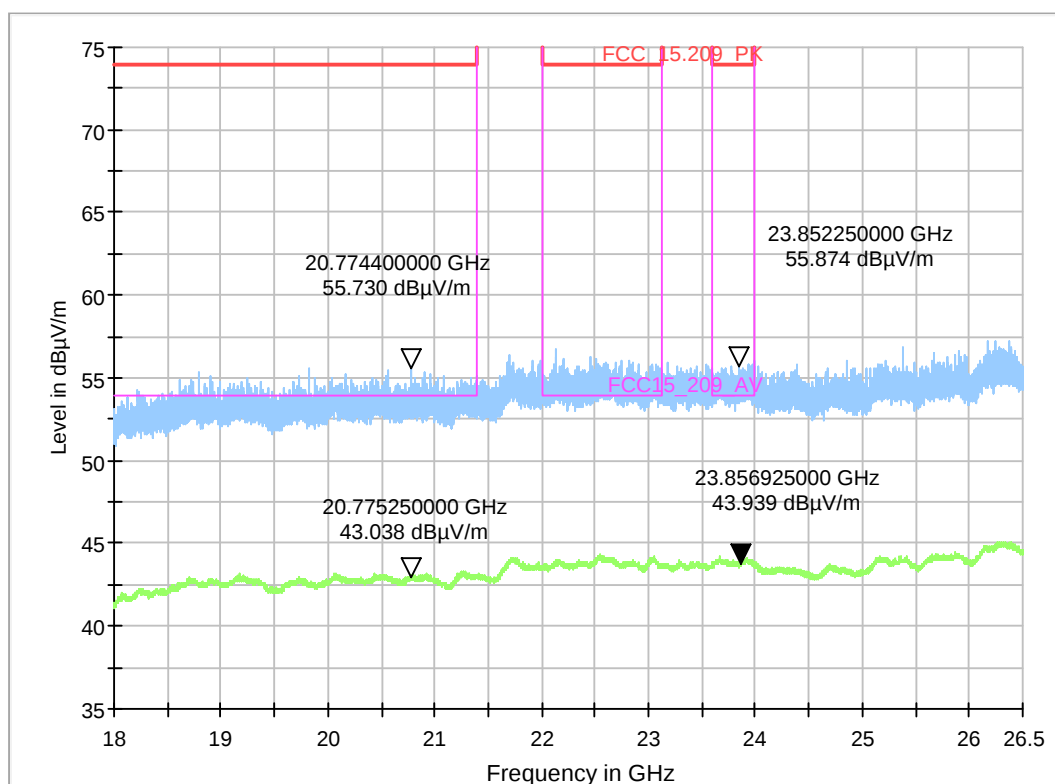
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	b-mode 1Mbps ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.34_b-mode_ch11_Lying

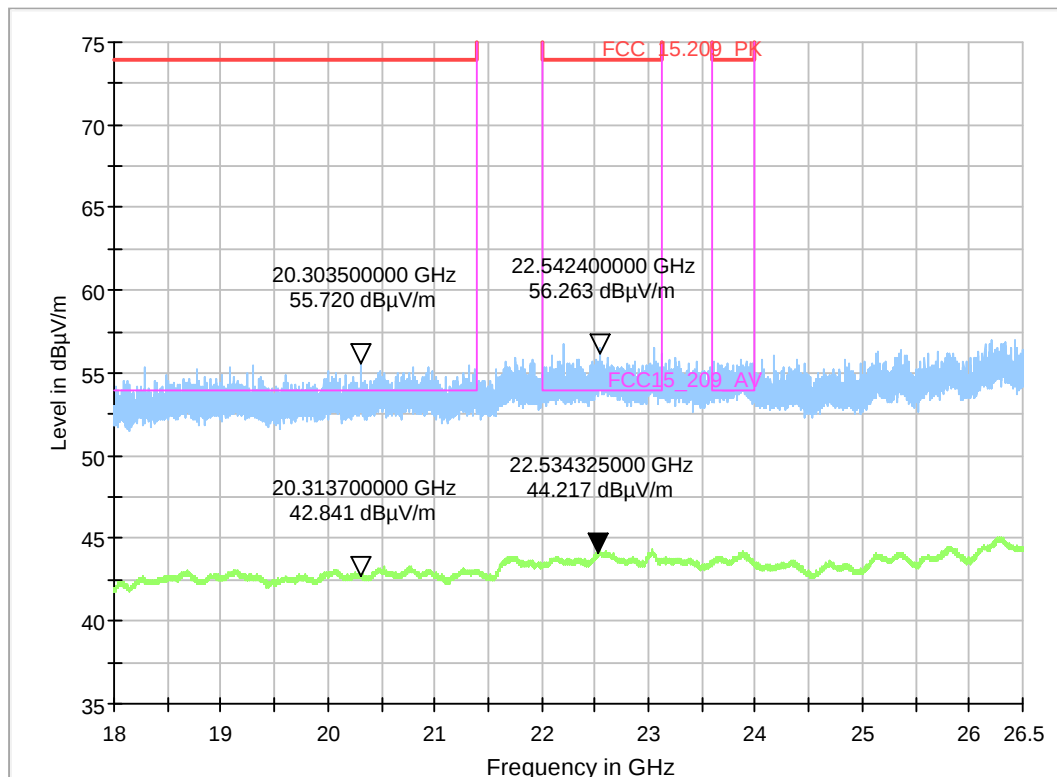
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Section:	-
Operating Mode:	b-mode 1Mbps ch11
Equipment Class:	Class B
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	PShin
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.35_b-mode_ch11_Standing

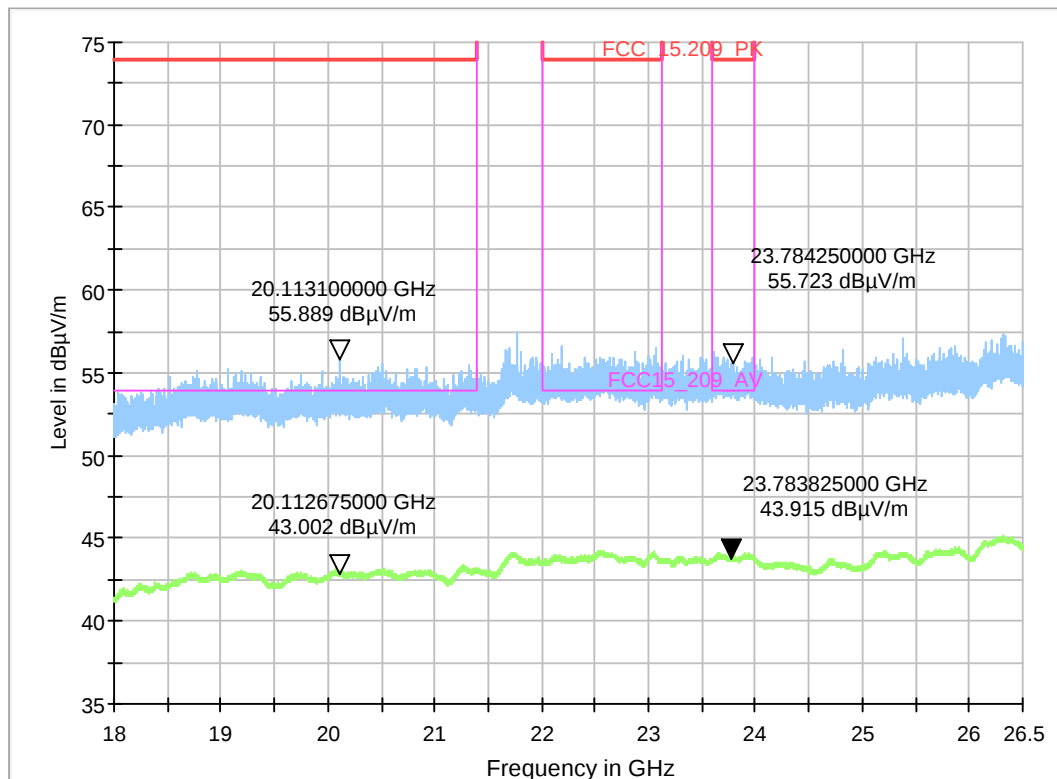
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	b-mode 1Mbps ch11
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.36_g-mode_ch1_Lying

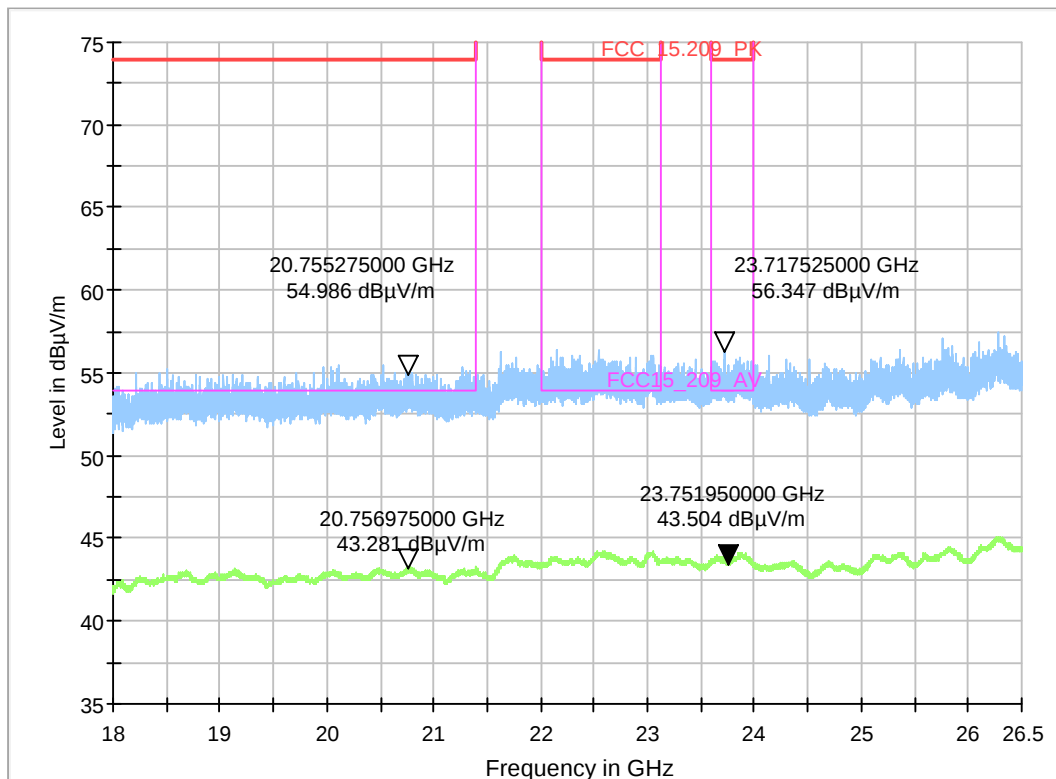
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	b-mode 1Mbps ch11
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	PShin
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.37_g-mode_ch1_Standing

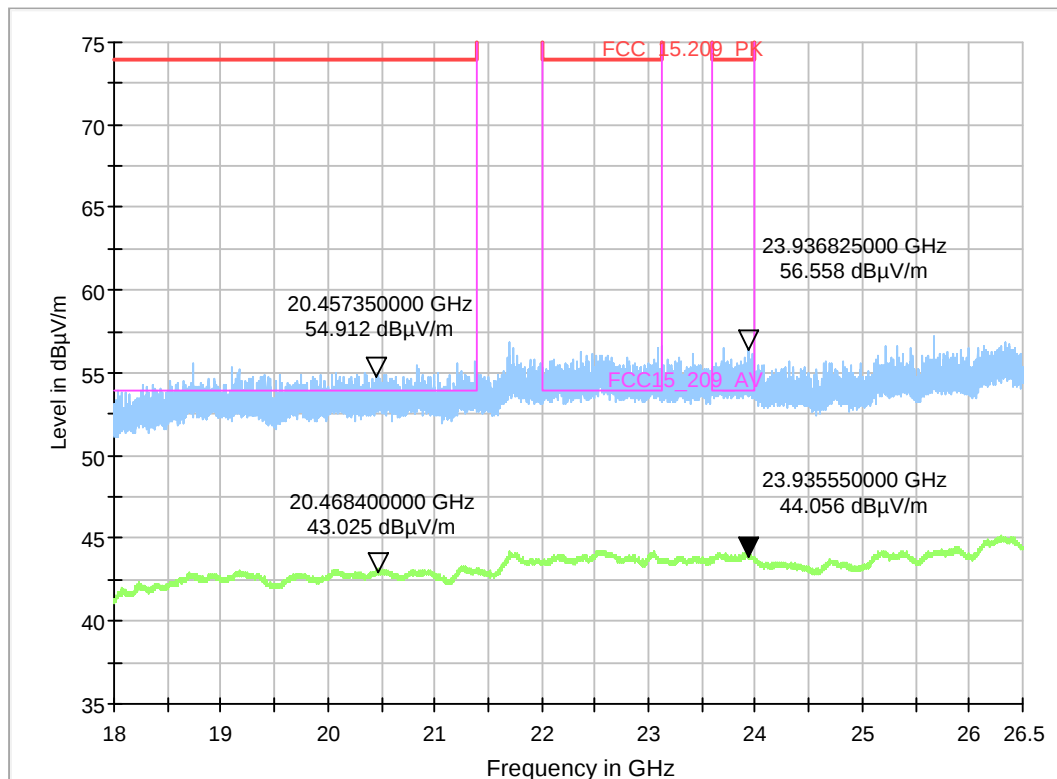
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	g-mode 6Mbit ch1
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.38_g-mode_ch6_Lying

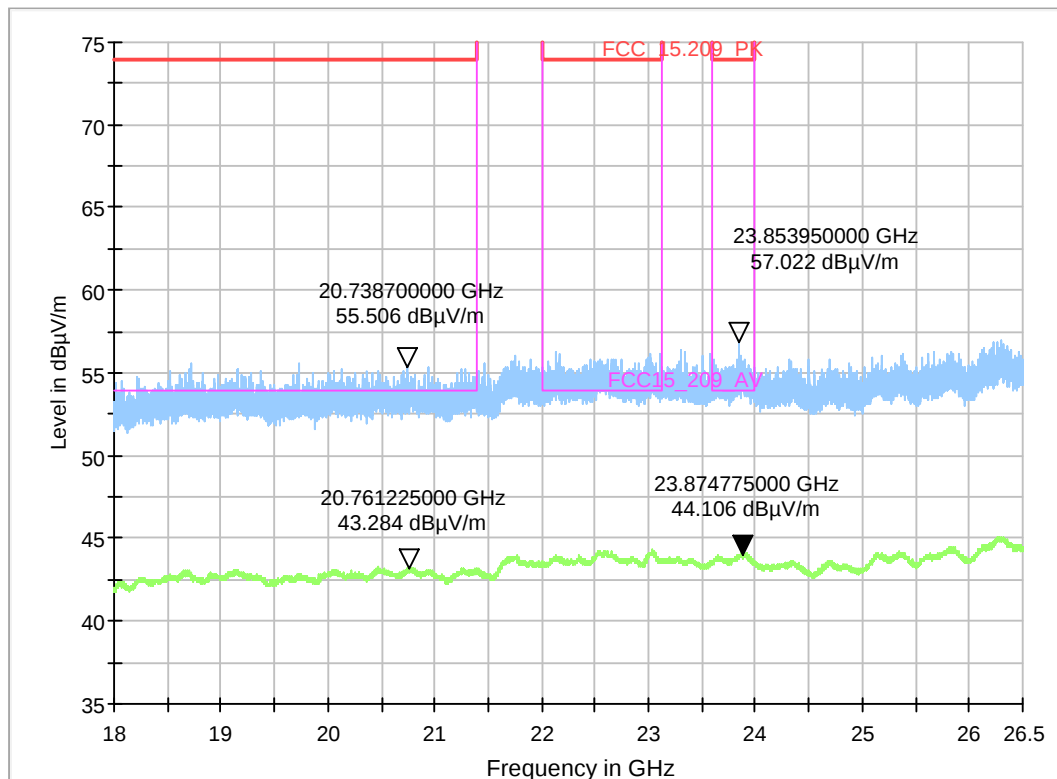
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	g-mode 6Mbit ch1
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.39_g-mode_ch6_Standing

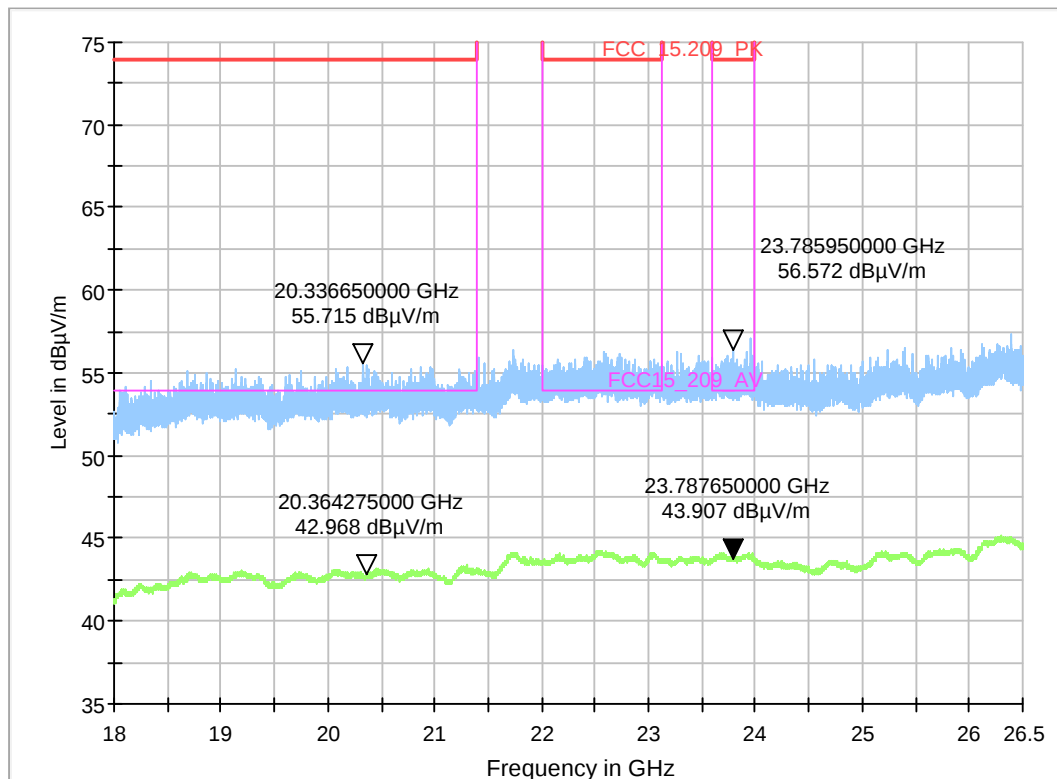
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	g-mode 6Mbit ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.40_g-mode_ch11_Lying

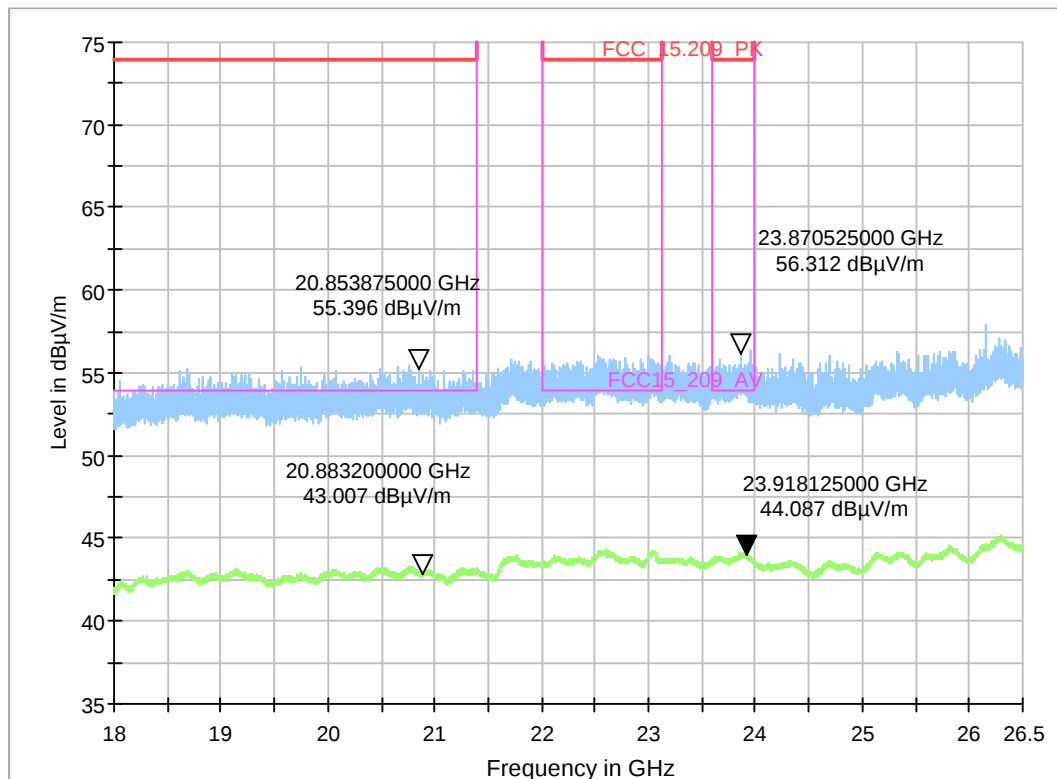
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	g-mode 6Mbit ch11
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.41_g-mode_ch11_Standing

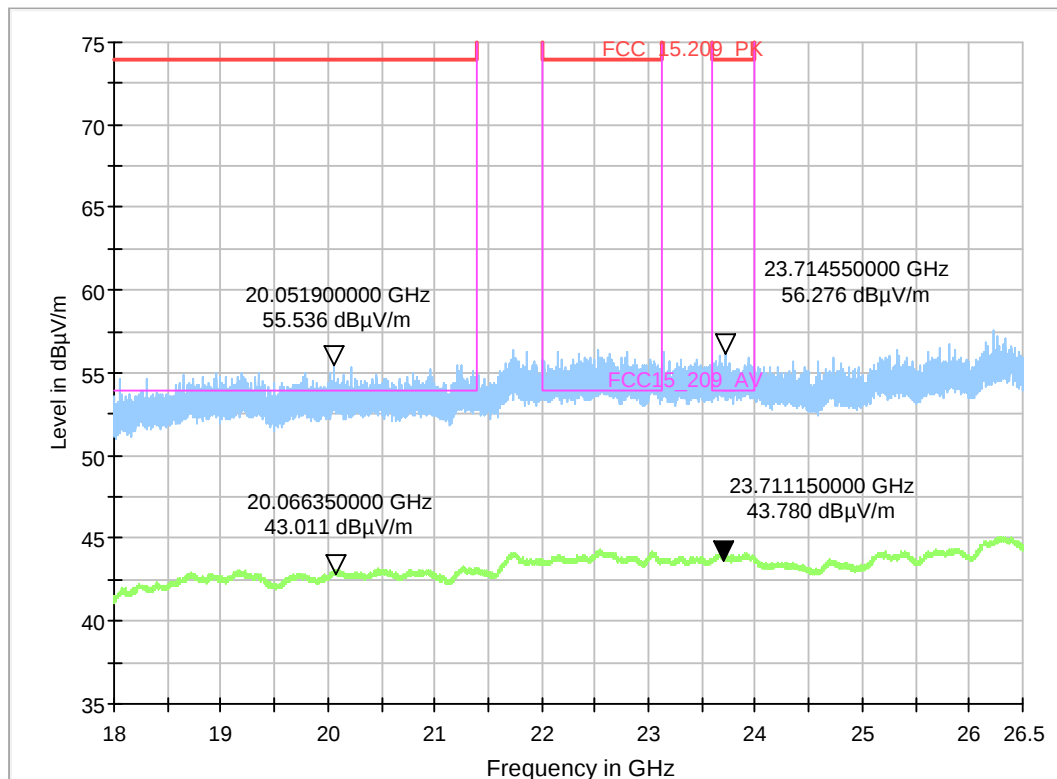
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	g-mode 6Mbit ch11
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.42_n40-mode_ch3_Lying

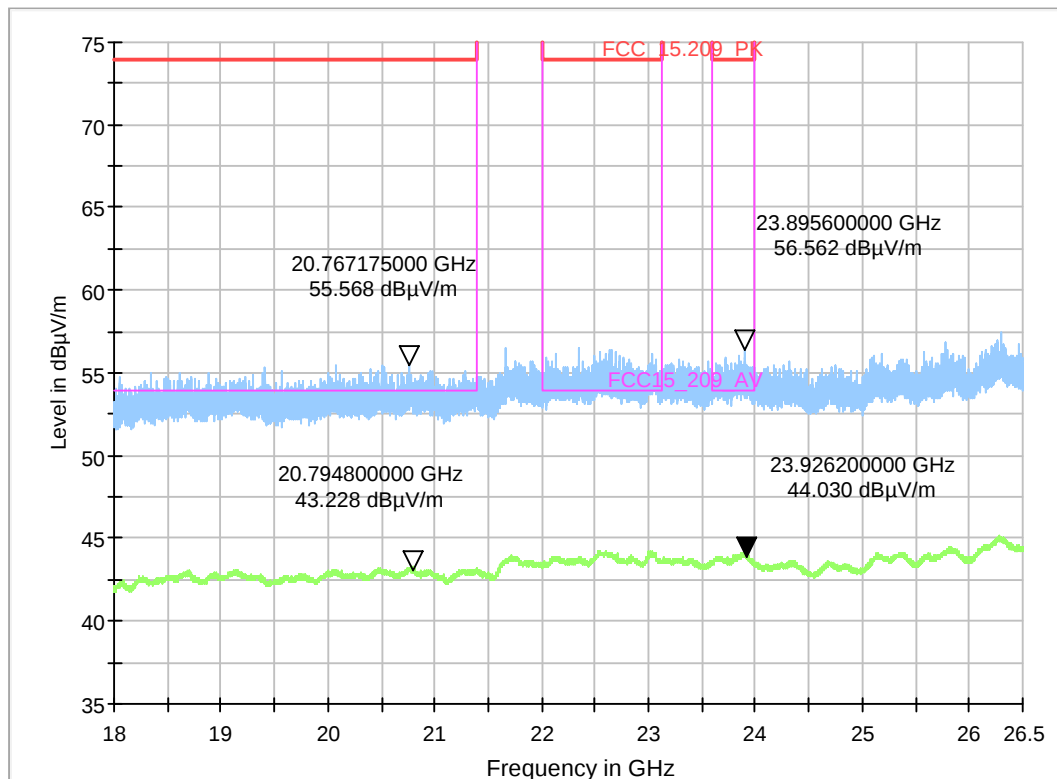
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-mode MCS0 ch3
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.43_n40-mode_ch3_Standing

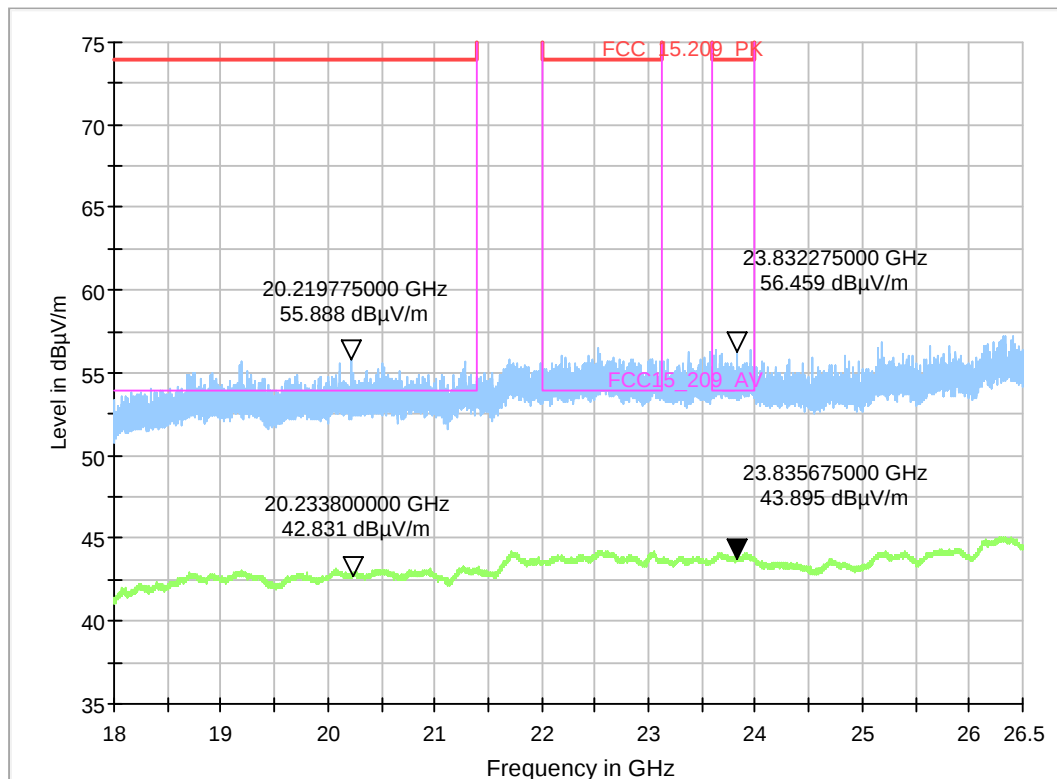
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-mode MCS0 ch3
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.44_n40-mode_ch6_Lying

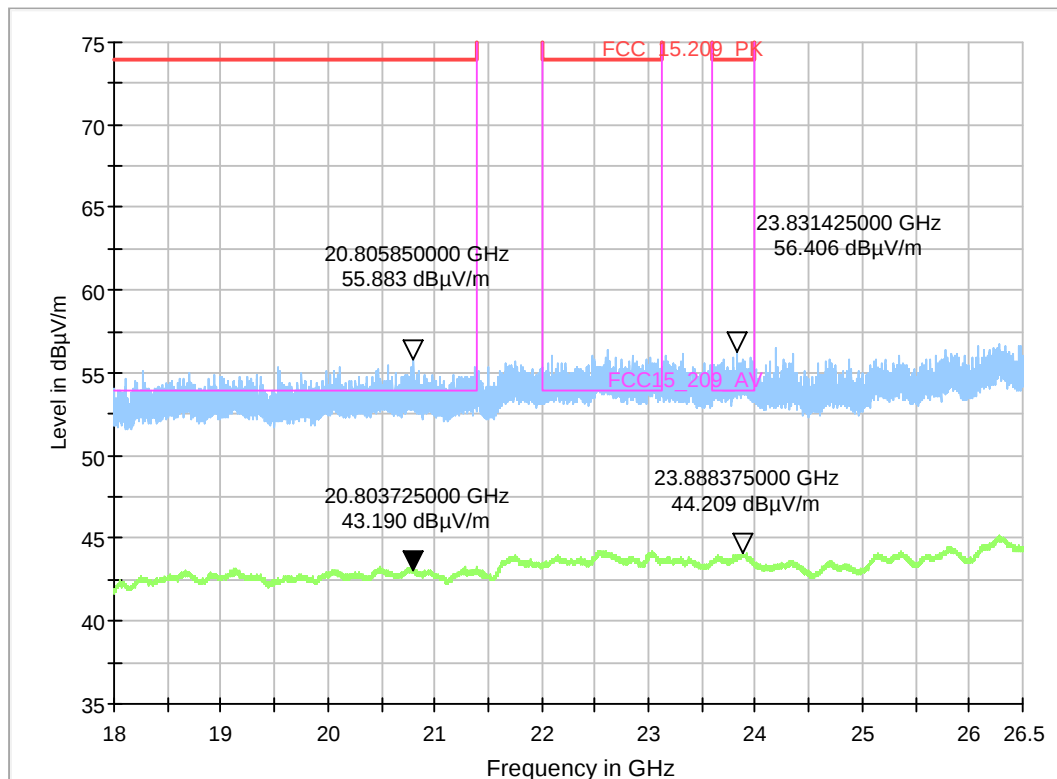
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-mode MCS0 ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.45_n40-mode_ch6_Standing

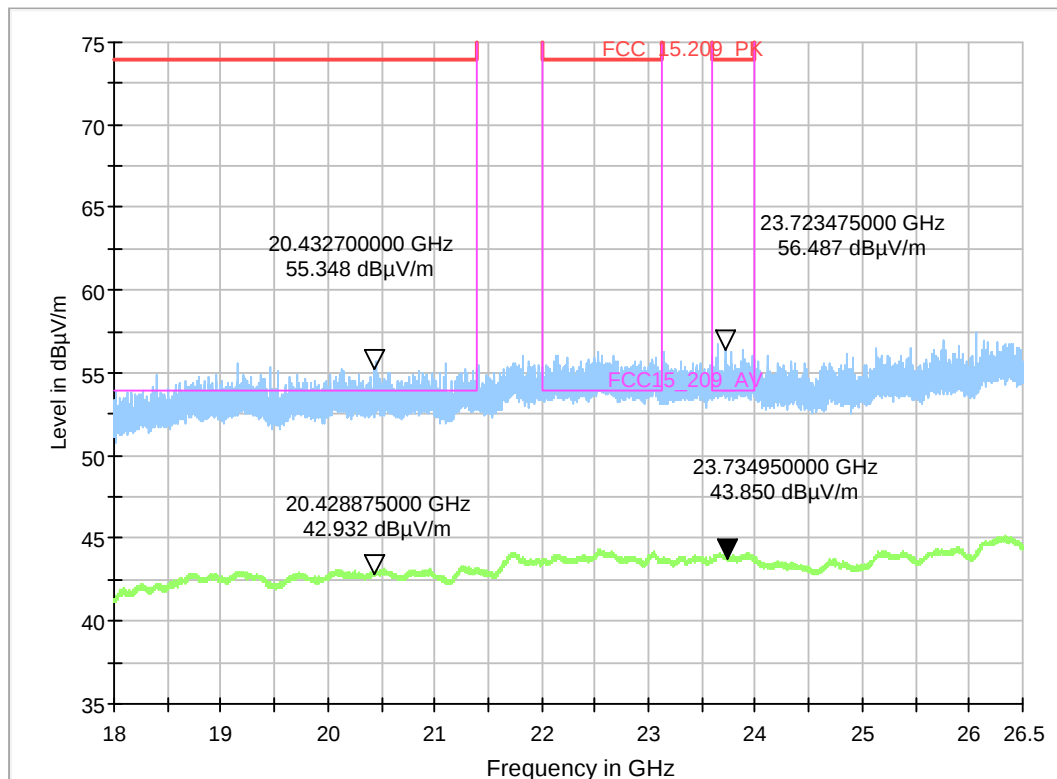
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-mode MCS0 ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.46_n40-mode_ch9_Lying

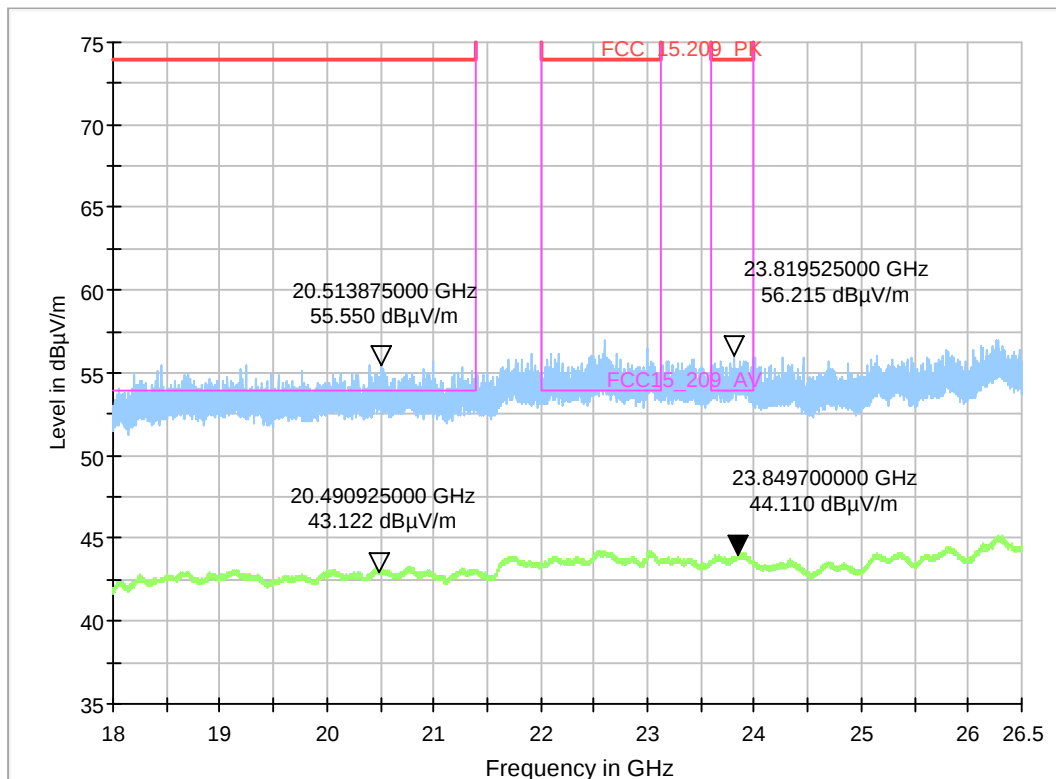
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-mode MCS0 ch9
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.47_n40-mode_ch9_Standing

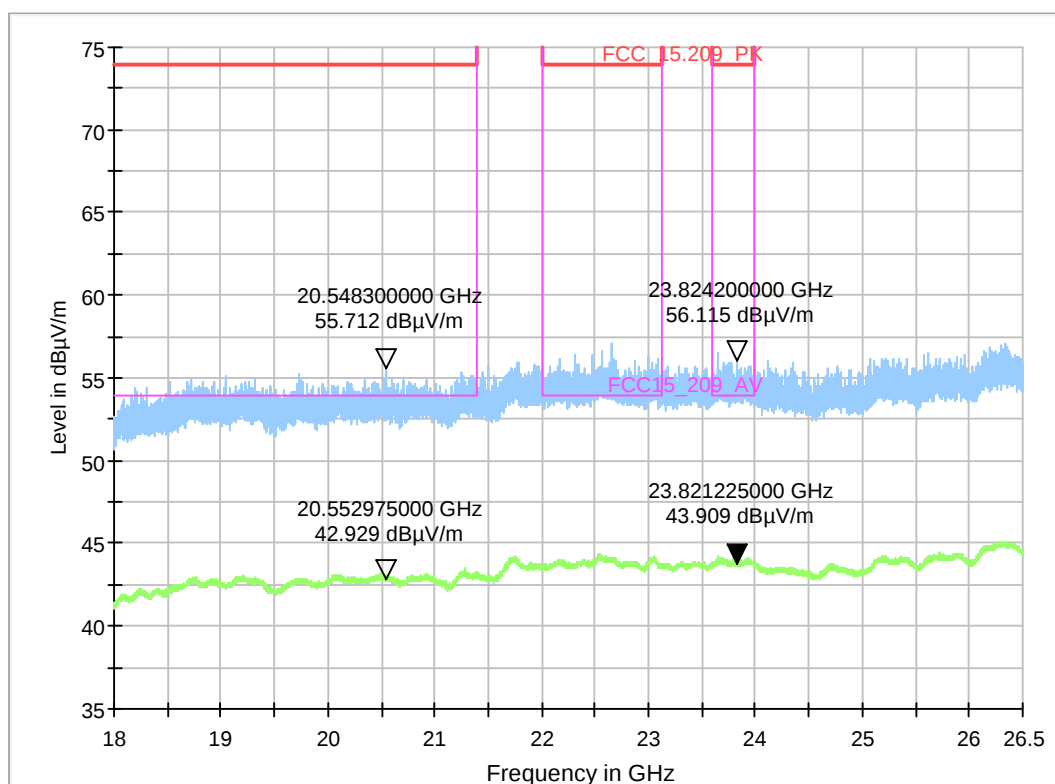
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-mode MCS0 ch9
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.48_n40-MIMO_ch3_Lying

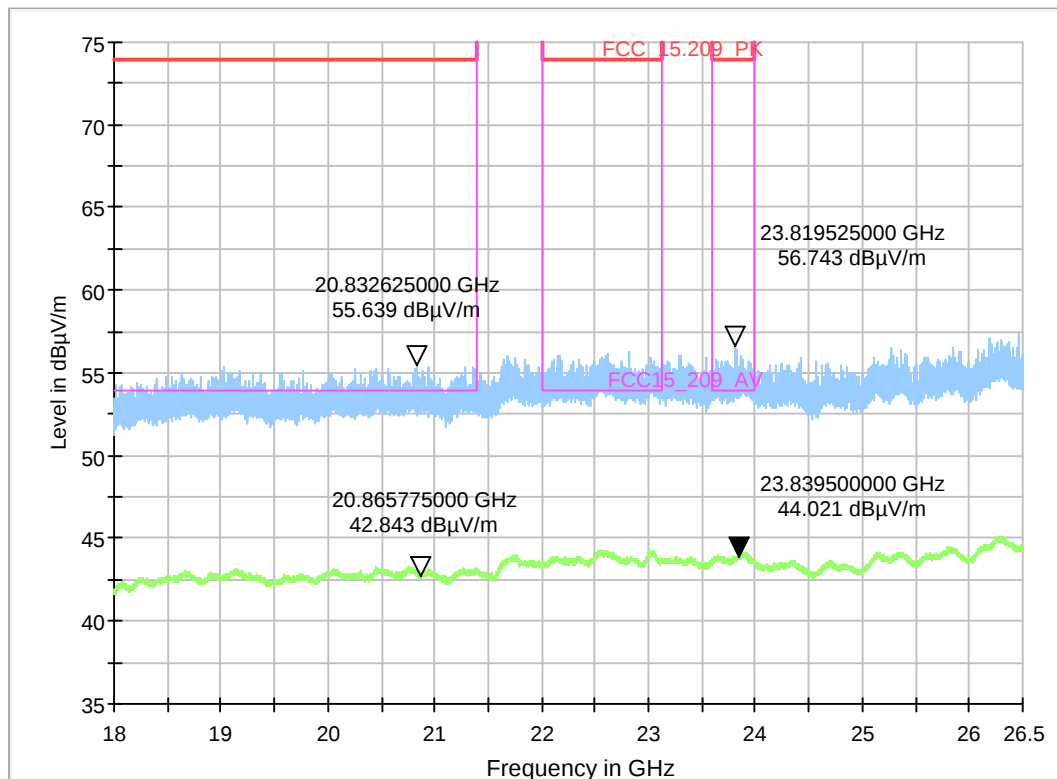
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-MIMO MCS0 ch3
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.49_n40-MIMO_ch3_Standing

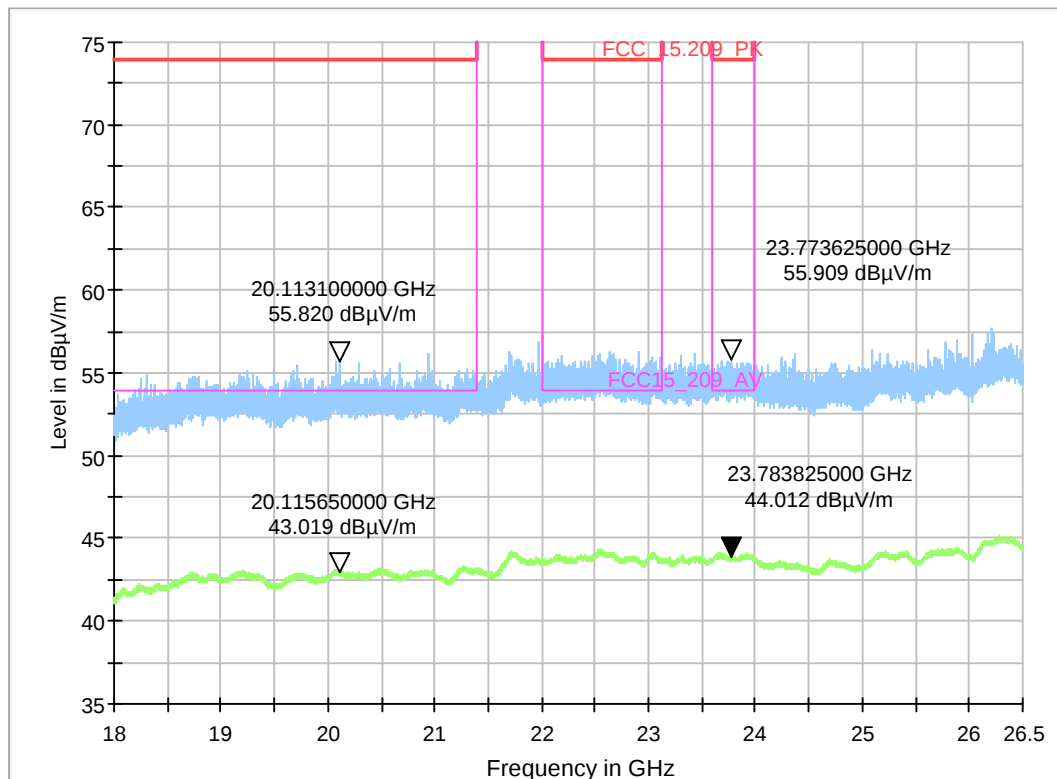
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-MIMO MCS0 ch3
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.50_n40-MIMO_ch6_Lying

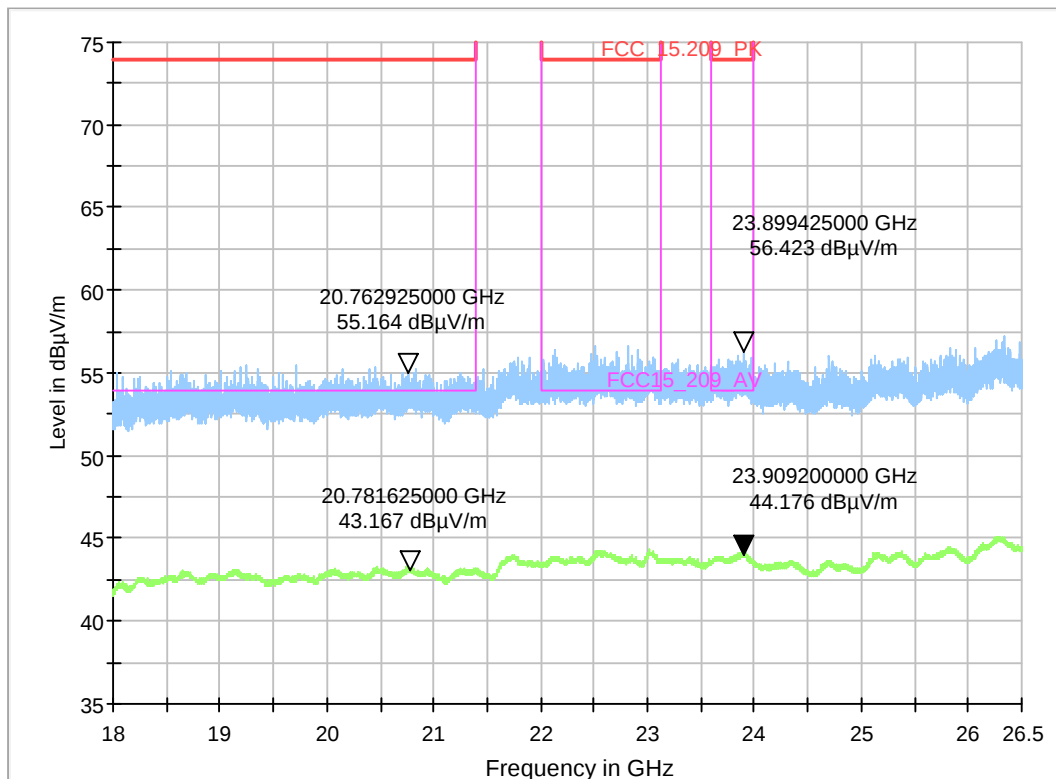
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-MIMO MCS0 ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.51_n40-MIMO_ch6_Standing

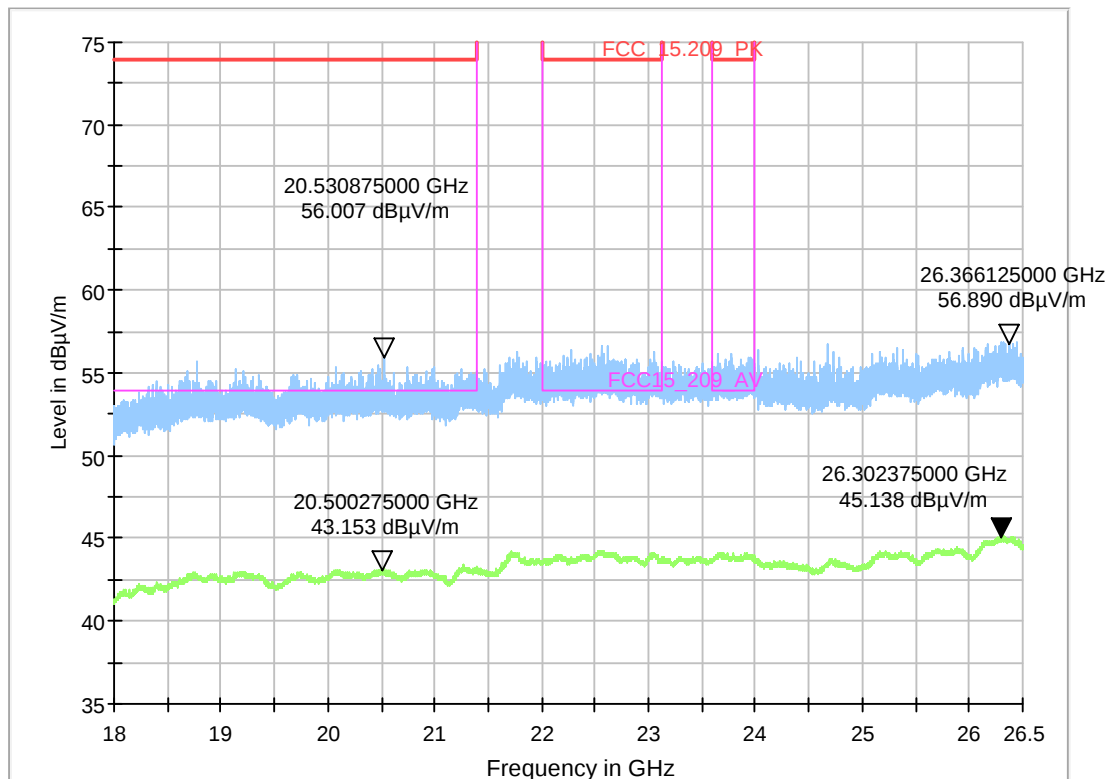
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-MIMO MCS0 ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.52_n40-MIMO_ch9_Lying

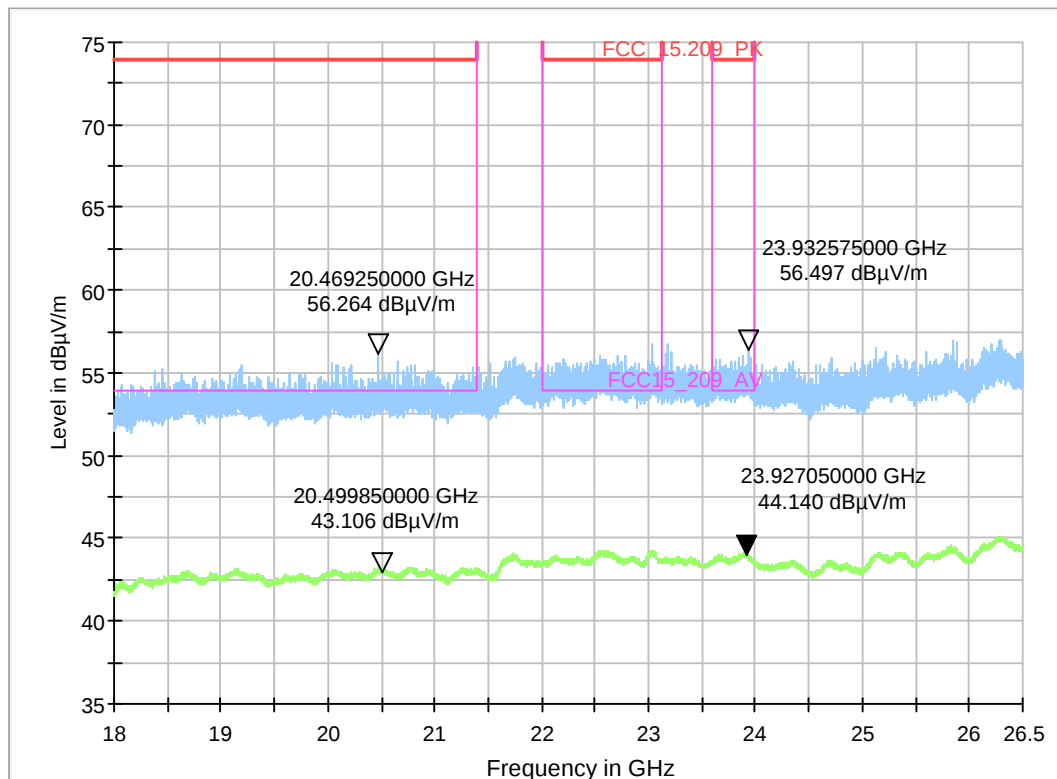
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-MIMO MCS0 ch9
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.53_n40-MIMO_ch9_Standing

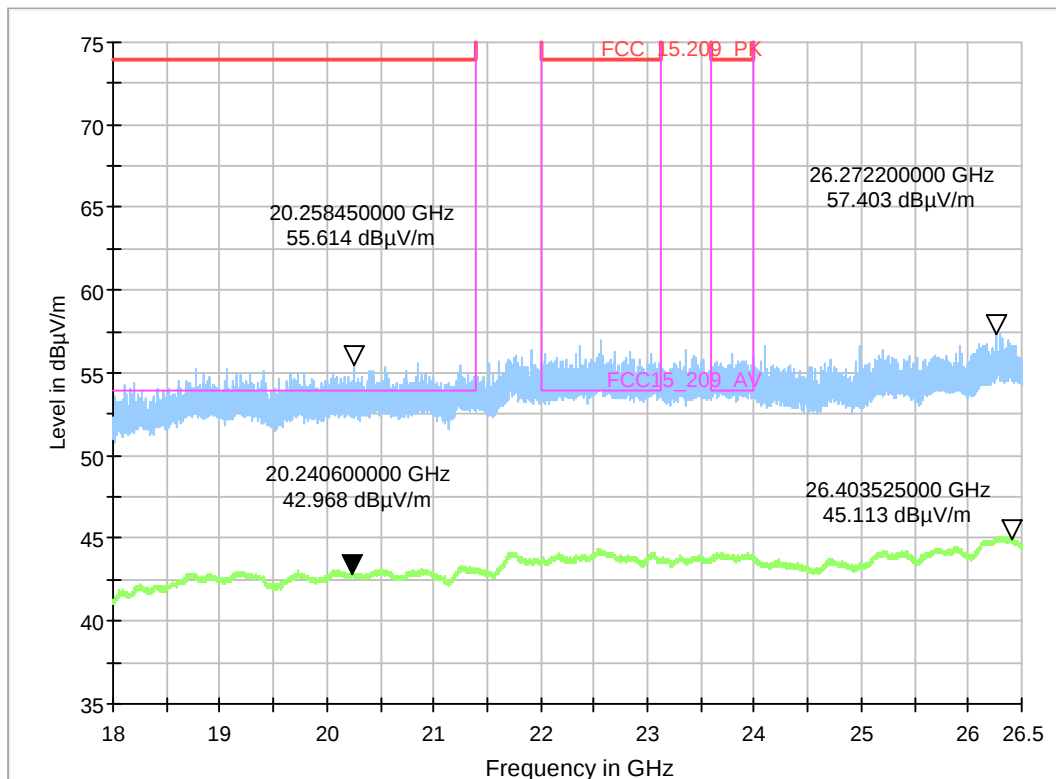
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetecom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n40-MIMO MCS0 ch9
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.54_n20-MIMO_ch1_Lying

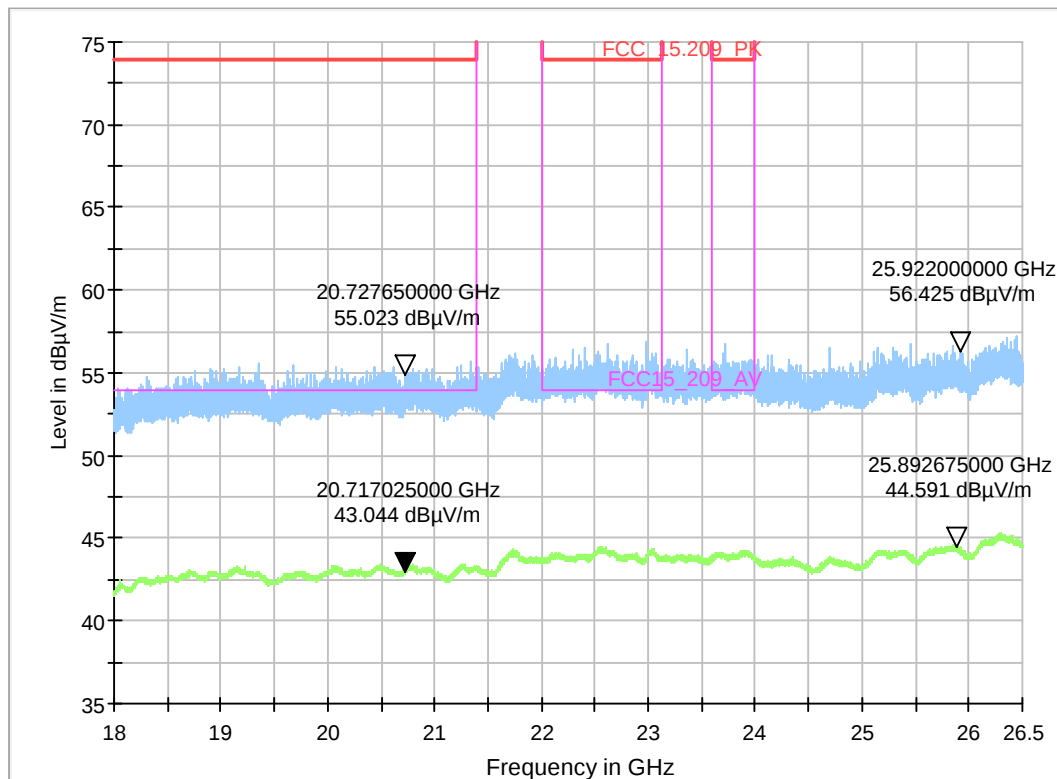
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n20-MIMO MCS0 ch1
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.55_n20-MIMO_ch1_Standing

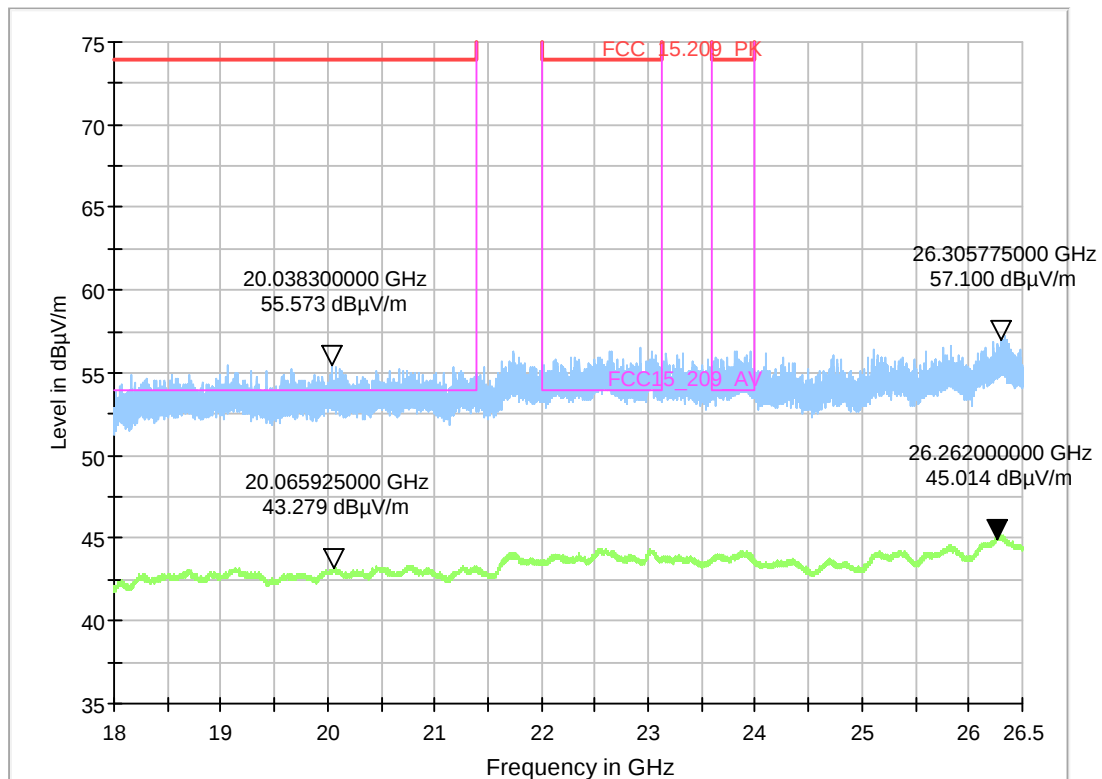
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n20-MIMO MCS0 ch1
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.56_n20-MIMO_ch6_Lying

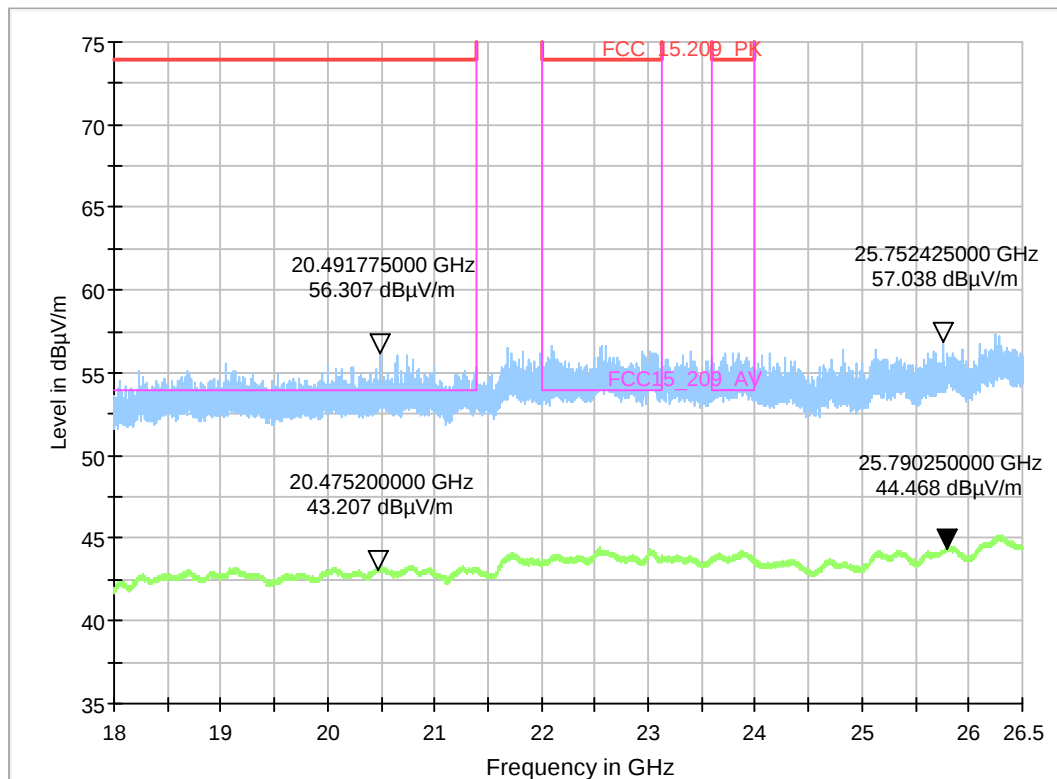
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n20-MIMO MCS0 ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.57_n20-MIMO_ch6_Standing

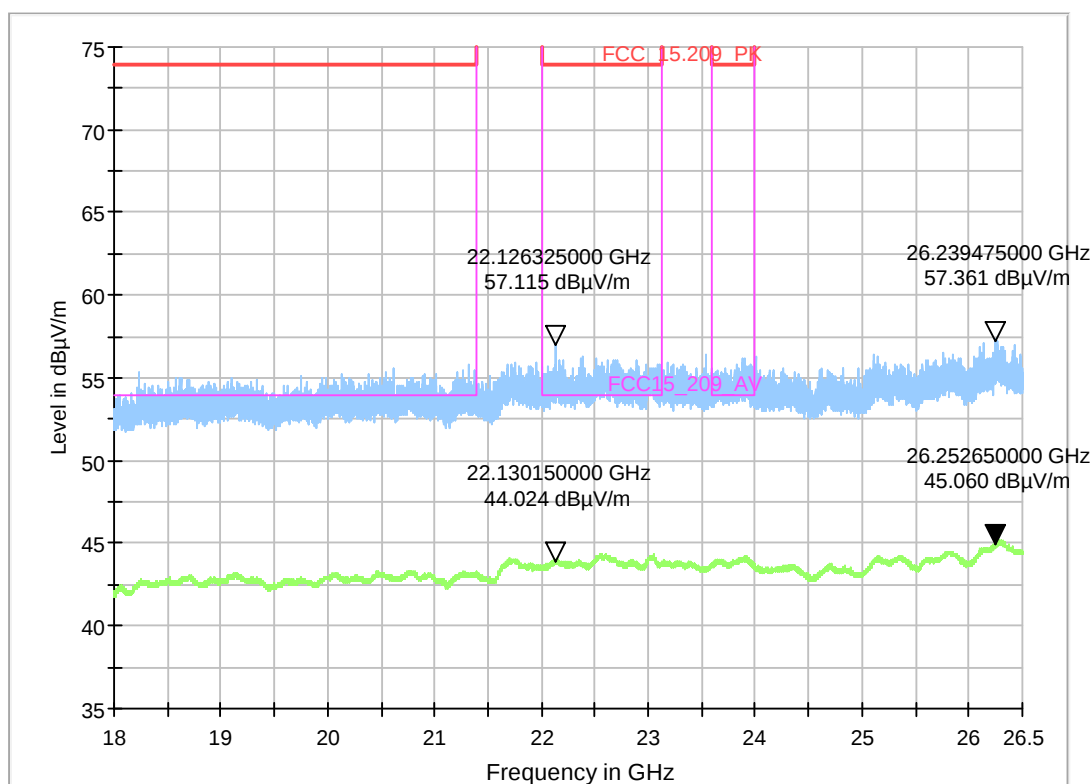
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n20-MIMO MCS0 ch6
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.58_n20-MIMO_ch11_Lying

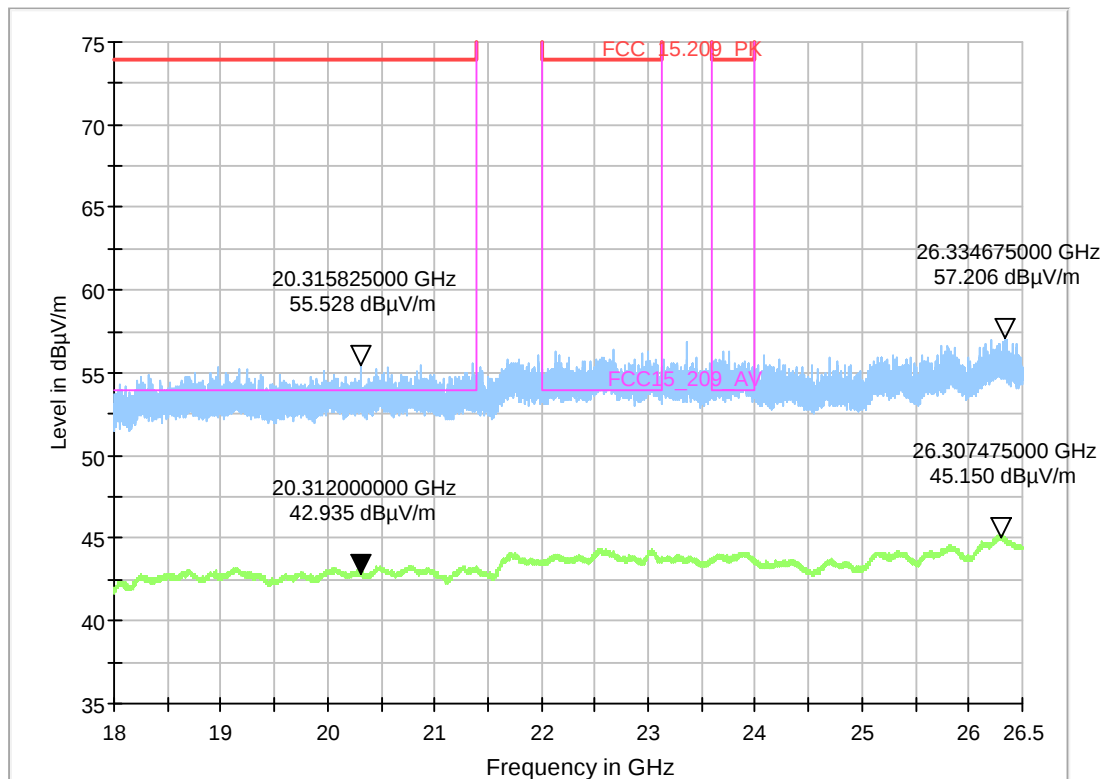
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n20-MIMO MCS0 ch11
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	ASa
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



4.59_n20-MIMO_ch11_Standing

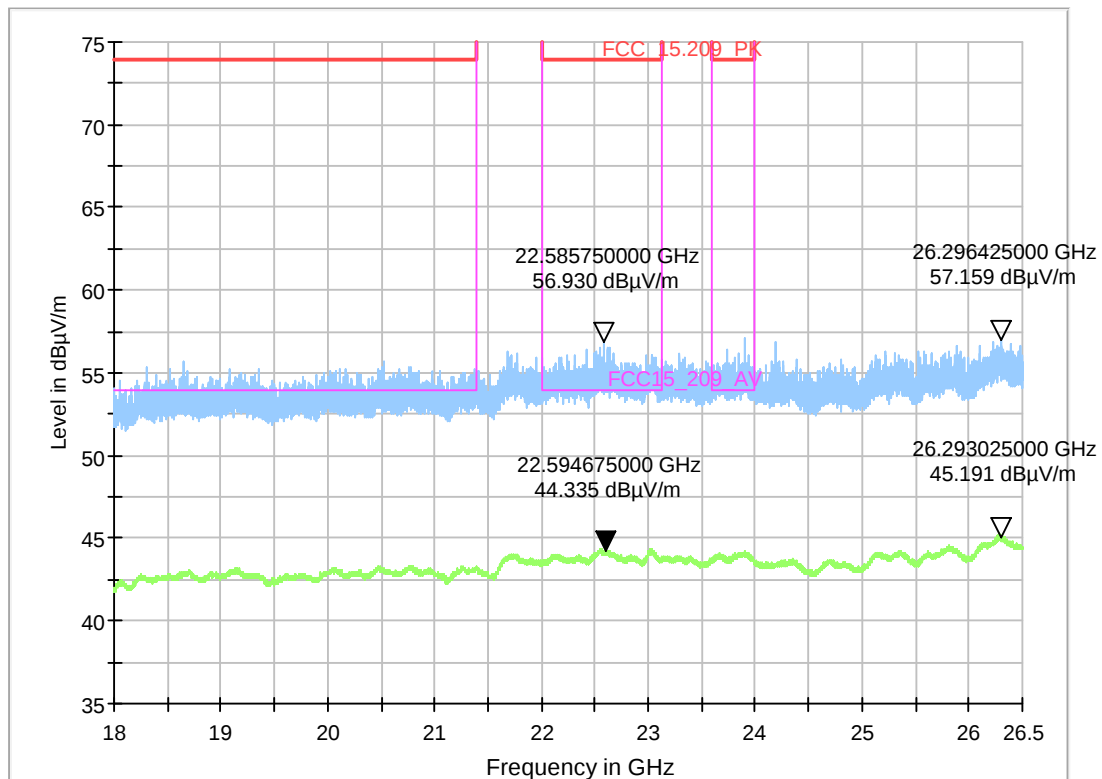
Common Information

Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	cetekom advanced GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC Part 15.247 / 15.407
Operating Mode:	n20-MIMO MCS0 ch11
Environmental Conditions:	Humidity: 41%rH; Temperature: 22.8°C
Operator:	TFra
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT Sample Nr.	24-1-00398S02_C01
power:	28 V DC

Full Spectrum



2.5 Band Edge

9.01_b-mode_ch1

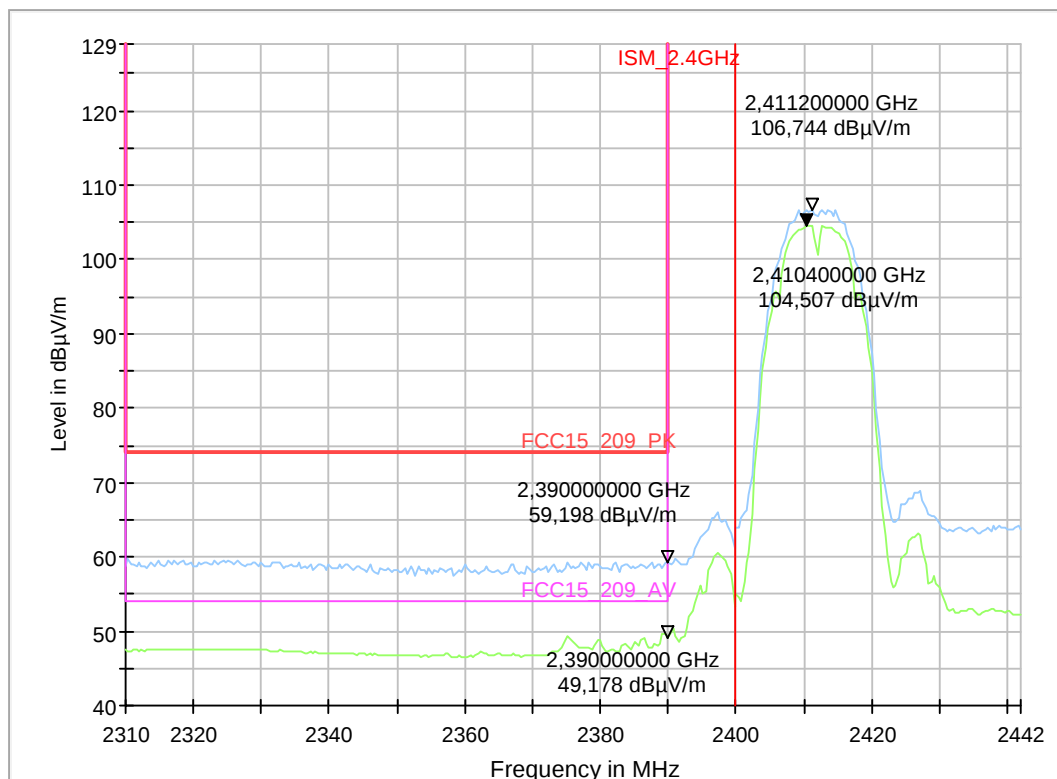
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	b-mode 1Mbps ch1
Operator:	ASa
Comment:	Channel low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.02_g-mode_ch1

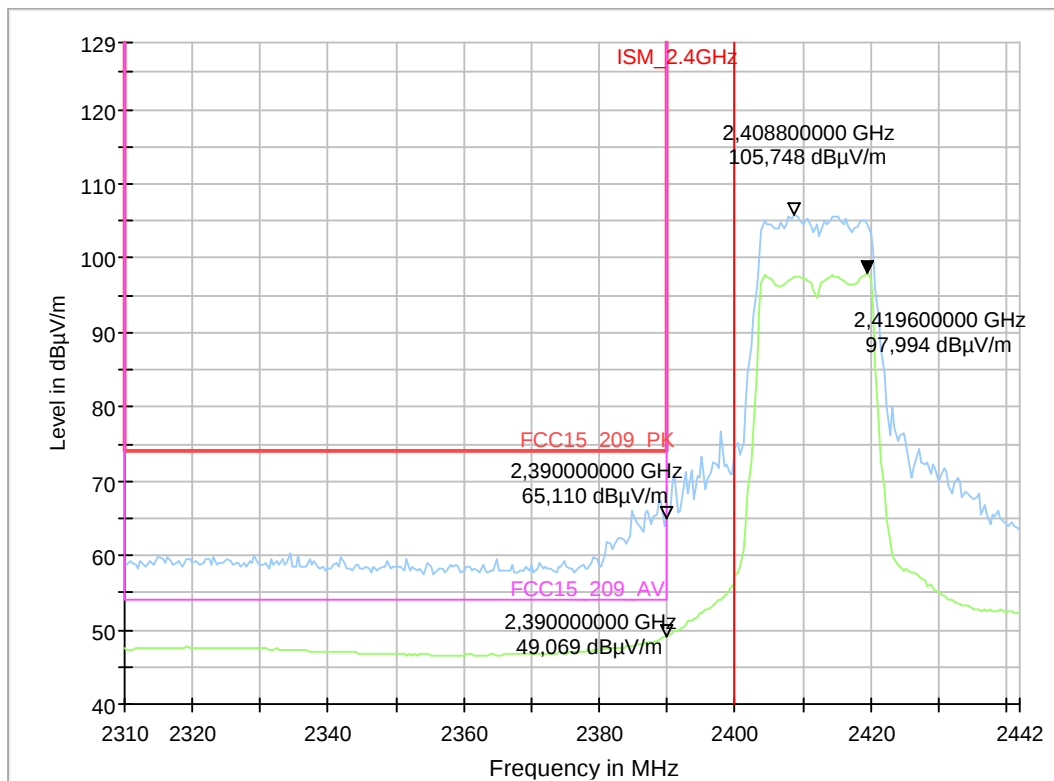
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbps ch1
Operator:	ASa
Comment:	Channel low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.03_n20-mode_ch1

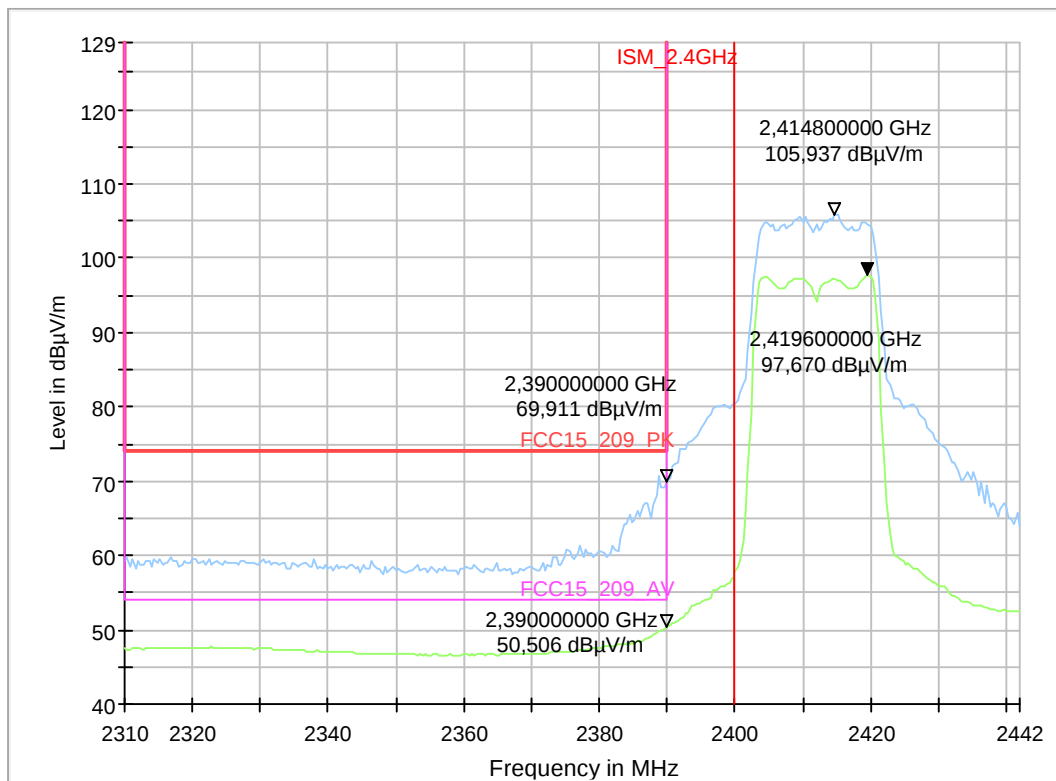
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-mode MCS0 ch1
Operator:	ASa
Comment:	Channel low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.04_n40-mode_ch3

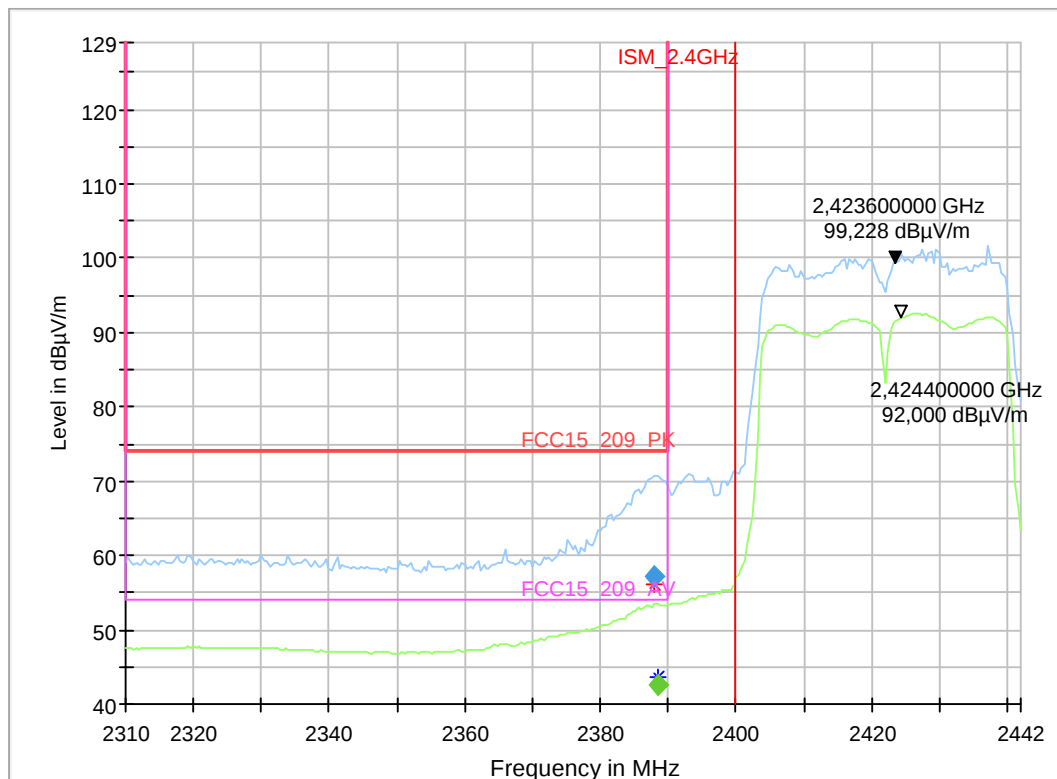
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-mode MCS0 ch3 P:13
Operator:	ASa
Comment:	Channel low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Elevation
2388.000000	57.08	---	74.00	16.92	100.0	100.000	155.0	H	297.0	0.0
2388.400000	---	42.69	54.00	11.31	100.0	100.000	155.0	H	297.0	0.0

9.05_n20-MIMO_ch1

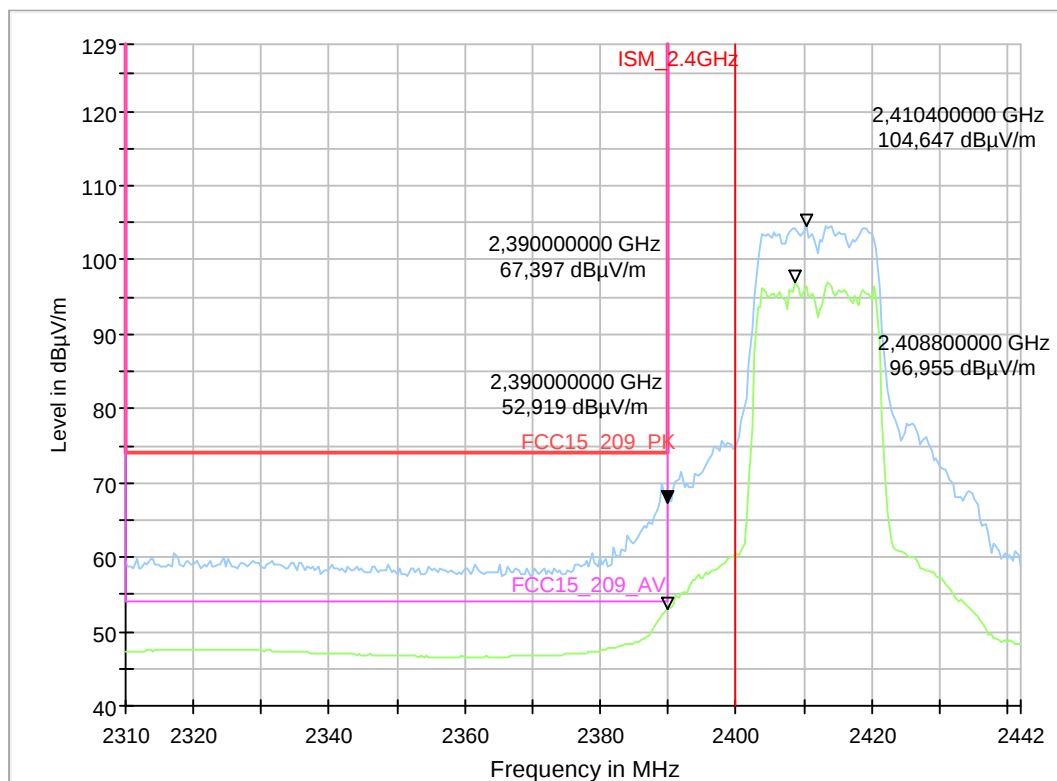
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-MIMO MCS0 ch1
Operator:	ASa/PShin
Comment:	Channel no. low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.06_n40-MIMO_ch3

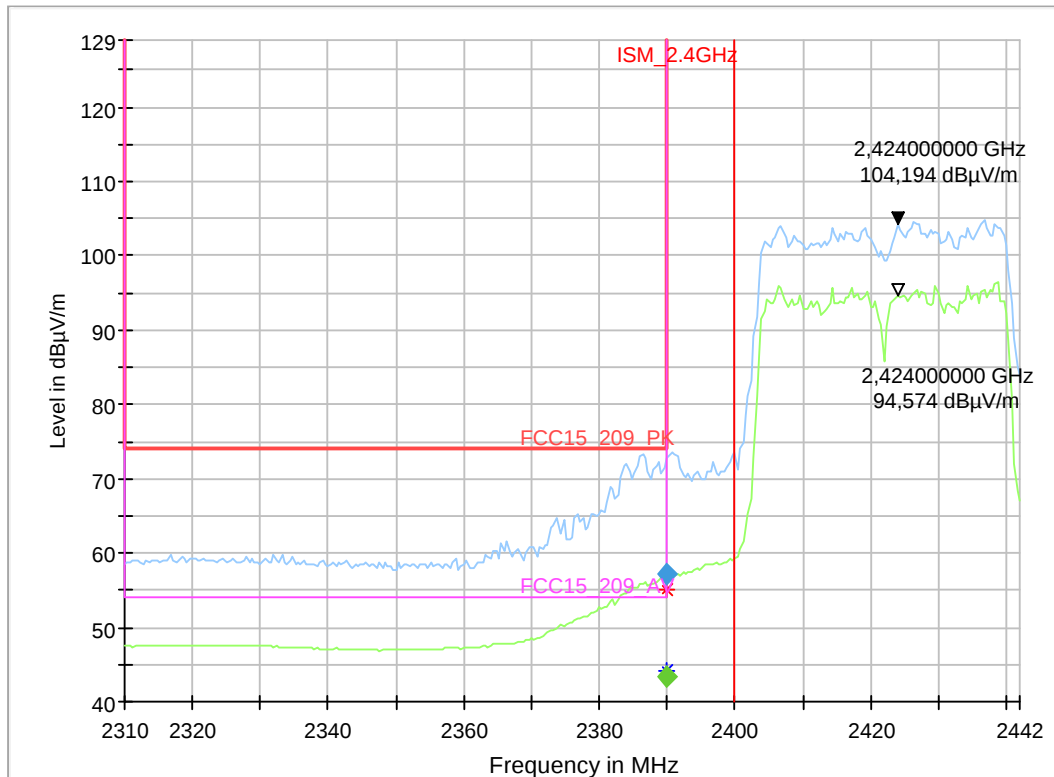
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-MIMO MCS0 ch3 P:12
Operator:	SOz
Comment:	Channel no. low
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2390.000000	57.09	---	74.00	16.91	100.0	100.000	155.0	H	204.0	0.0
2390.000000	---	43.29	54.00	10.71	100.0	100.000	155.0	H	208.0	0.0

9.11_b-mode_ch11

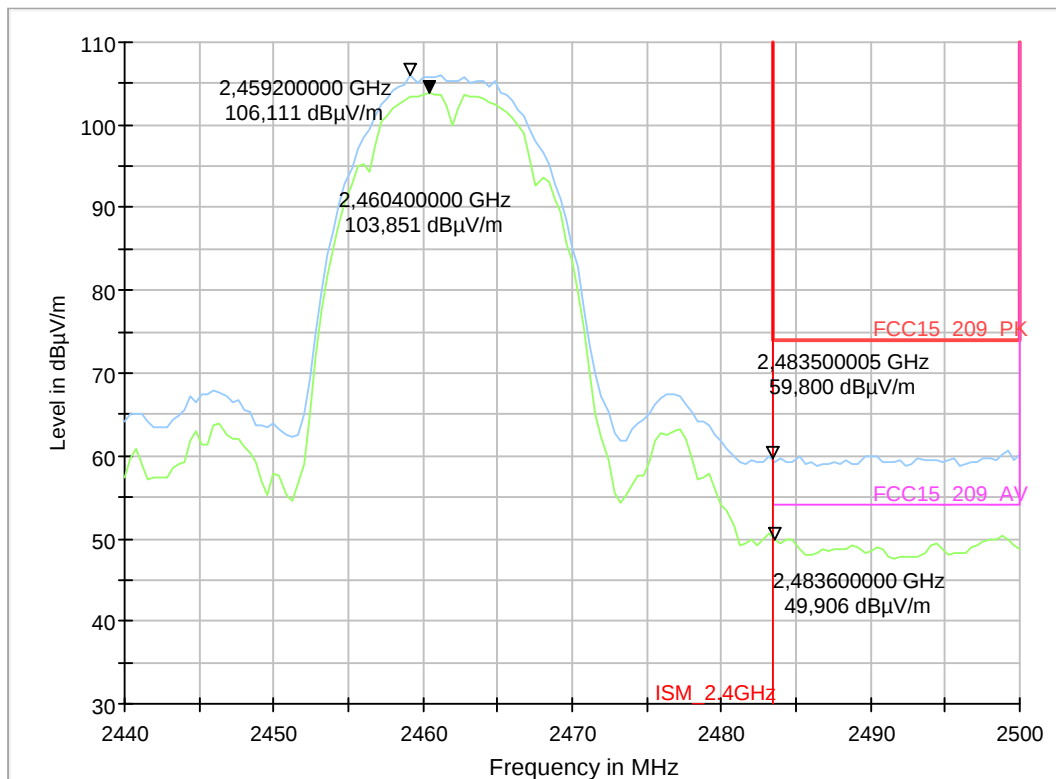
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	b-mode 1Mbit ch11
Operator:	ASa
Comment:	Channel high
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.12_g-mode_ch11

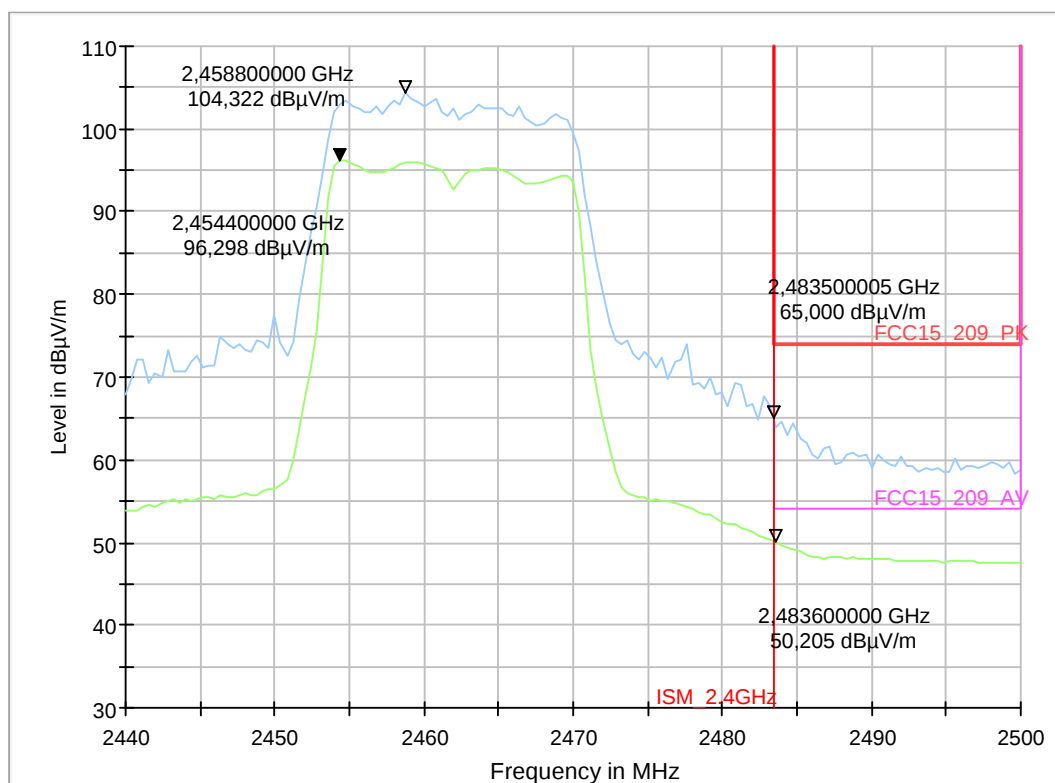
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	g-mode 6Mbps ch11
Operator:	ASa/PSHn
Comment:	Channel high
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.13_n20-mode_ch11

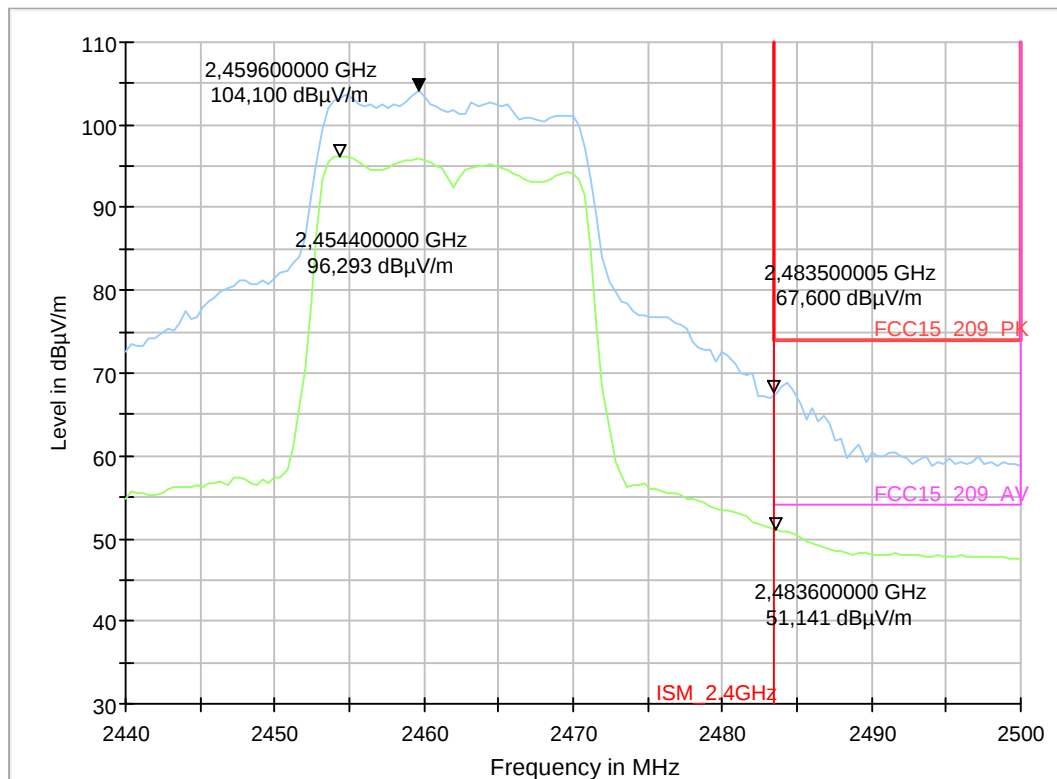
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-mode MCS0 ch11
Operator:	ASa/PShin
Comment:	Channel high
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



9.14_n40-mode_ch9

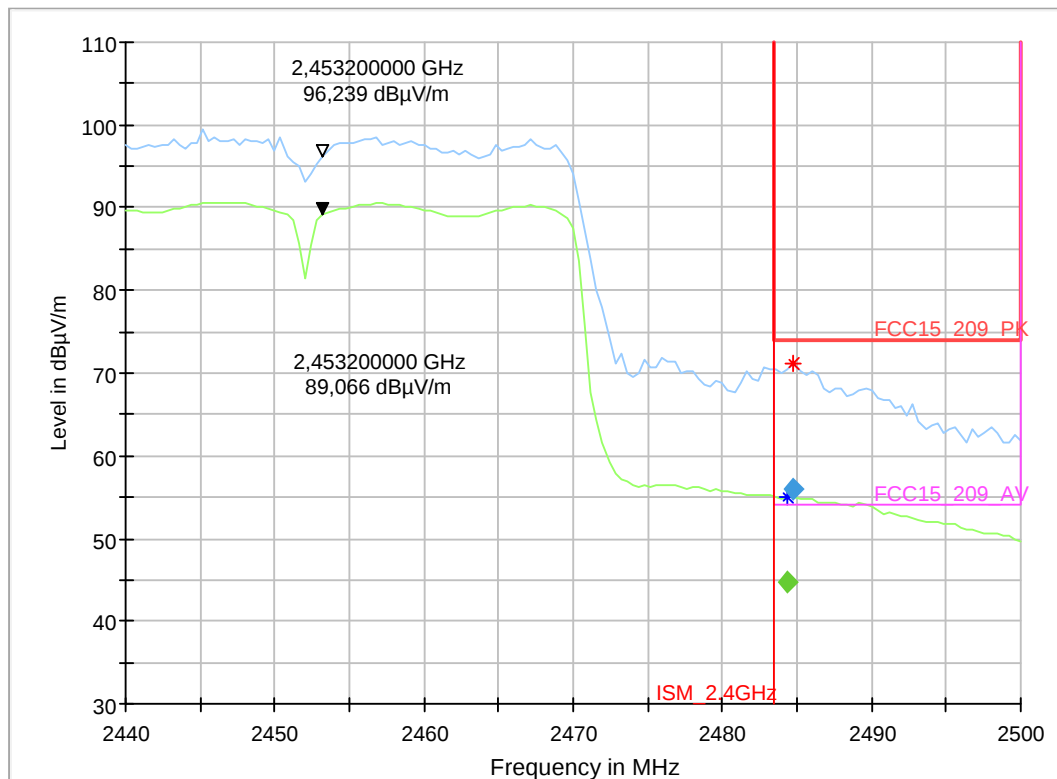
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-mode MCS0 ch9
Operator:	ASa/PShin
Comment:	Channel high
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Elevation
2484.400000	---	44.76	54.00	9.24	100.0	100.000	155.0	H	208.0	0.0
2484.800000	56.07	---	74.00	17.93	100.0	100.000	155.0	H	208.0	0.0

9.15_n20-MIMO_ch11

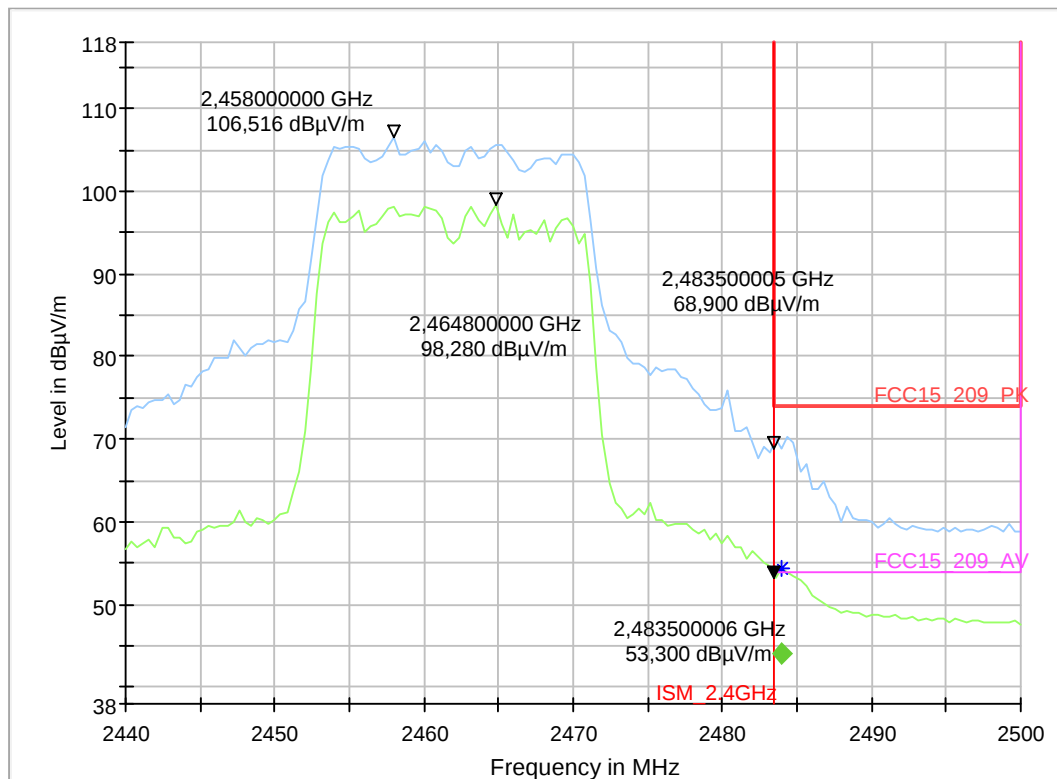
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n20-MIMO MCS0 ch11
Operator:	ASa/PShin
Comment:	Channel high
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Elevation
2484.000000	---	44.15	54.00	9.85	100.0	100.000	155.0	H	296.0	0.0

9.16_n40-MIMO_ch9

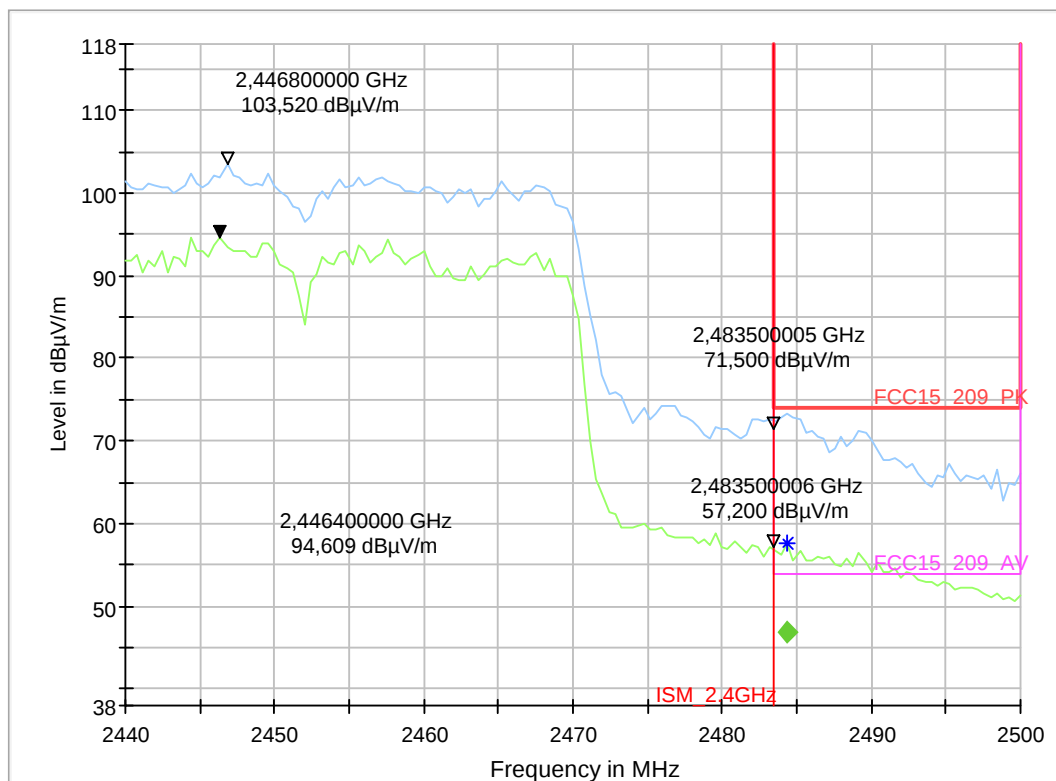
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.60.20
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarisation:	horizontal/vertical
Operating Mode:	n40-MIMO MCS0 ch9
Operator:	ASa/PShin
Comment:	Channel high
Environmental Conditions:	Humidity : 50%rH; Temperature: 20°C
EUT Setup:	1
Verdict:	Passed

EUT Information

Sample:	24-1-00398S02_C01
Power Supply :	28 V DC

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2484.400000	---	46.88	54.00	7.12	100.0	100.000	155.0	H	298.0	0.0

End Of Annex 1