

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 16-1-0190801T03a

According to:

FCC Regulations

Part 15.205, Part 15.209, Part 15.247

ISED-Regulations

RSS-Gen, Issue 4, RSS-247, Issue 2

for

Intel Corporation

RCM24G Radio Control Module 2.4 GHz
 +
PRESTTA Antenna + INTEL FA5 Antenna Ports 1 & 5

FCC-ID: 2AJ2A-RCM24G

IC: 1000B-RCM24G

PMN:RCM24G

HVIN:D

FVIN: RCM24G_12017USCN

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

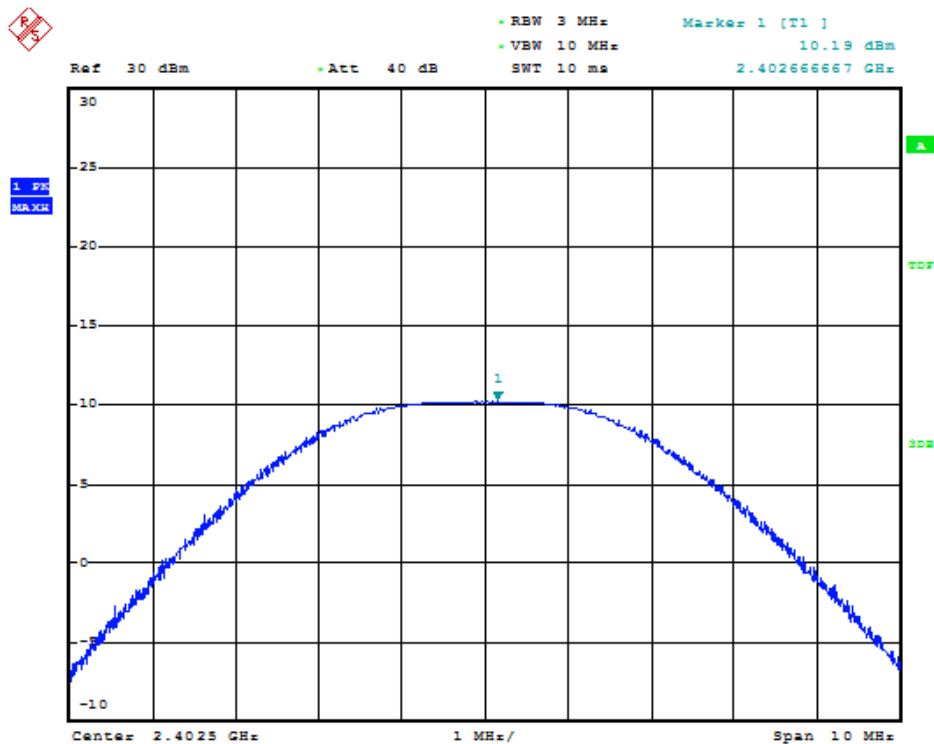
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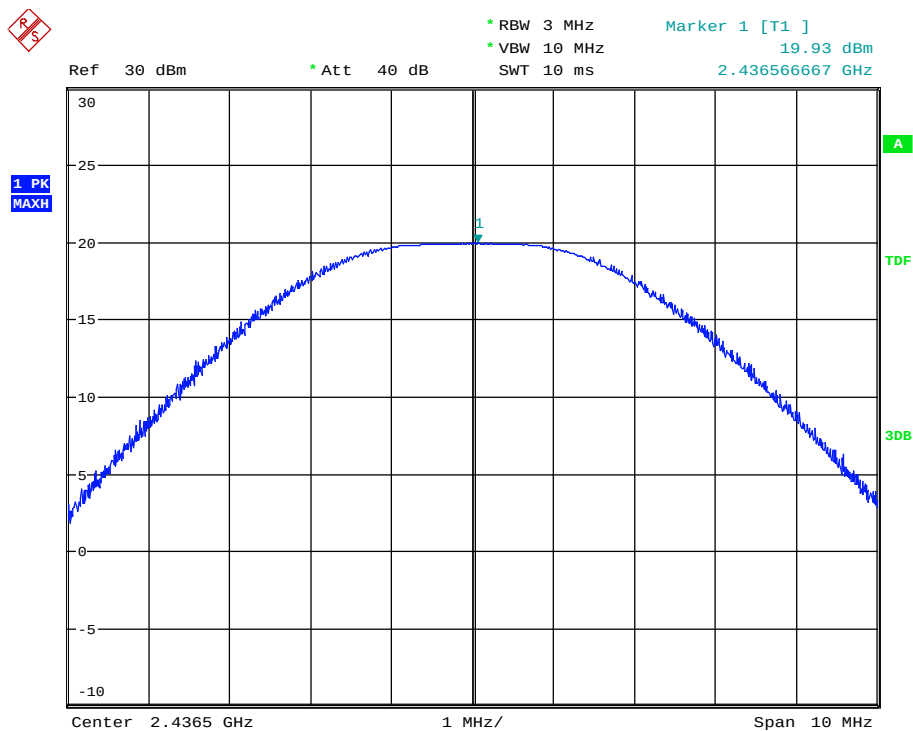
1. Conducted Measurements- RCM24G

1.1. Conducted Power

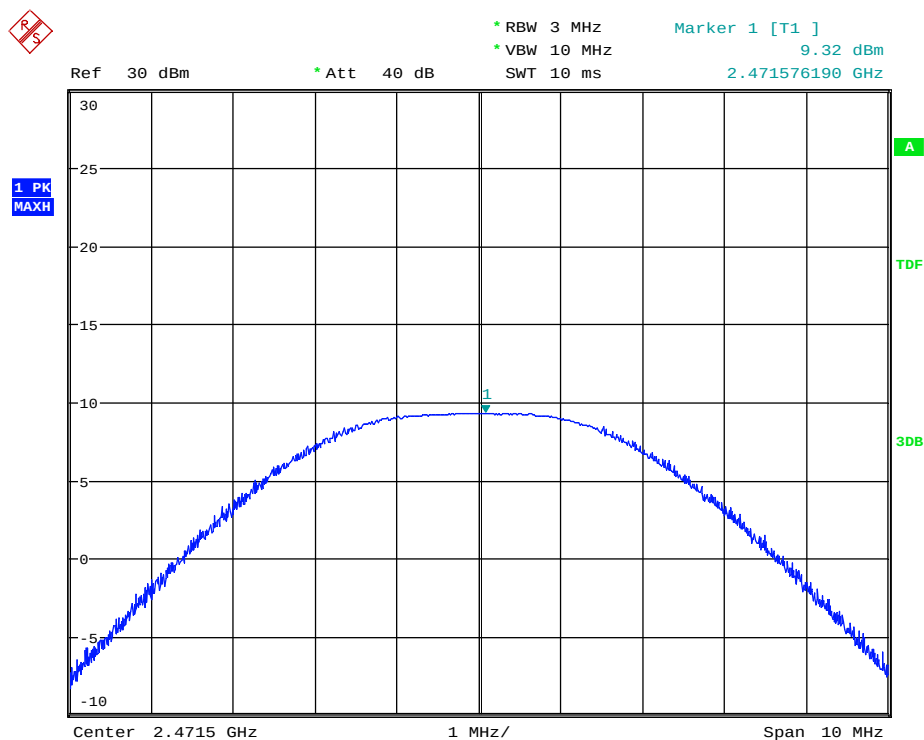
1.1.1. MSK-Data Rate 50Kbps



Plot 1: Conducted Power-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm

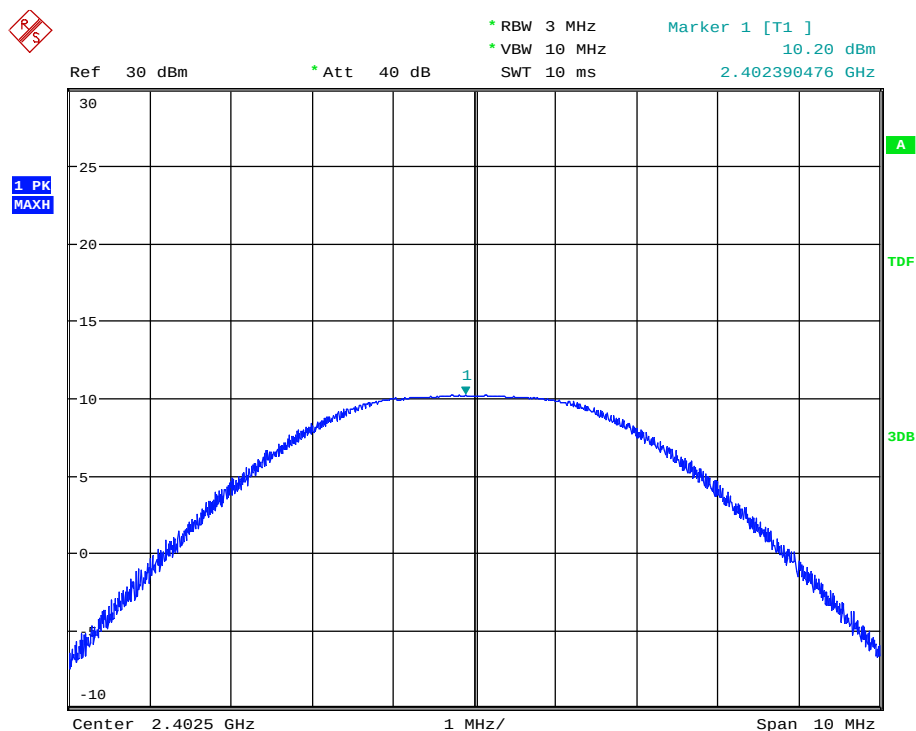


Plot 2: Conducted Power-RCM24G-MSK-50Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

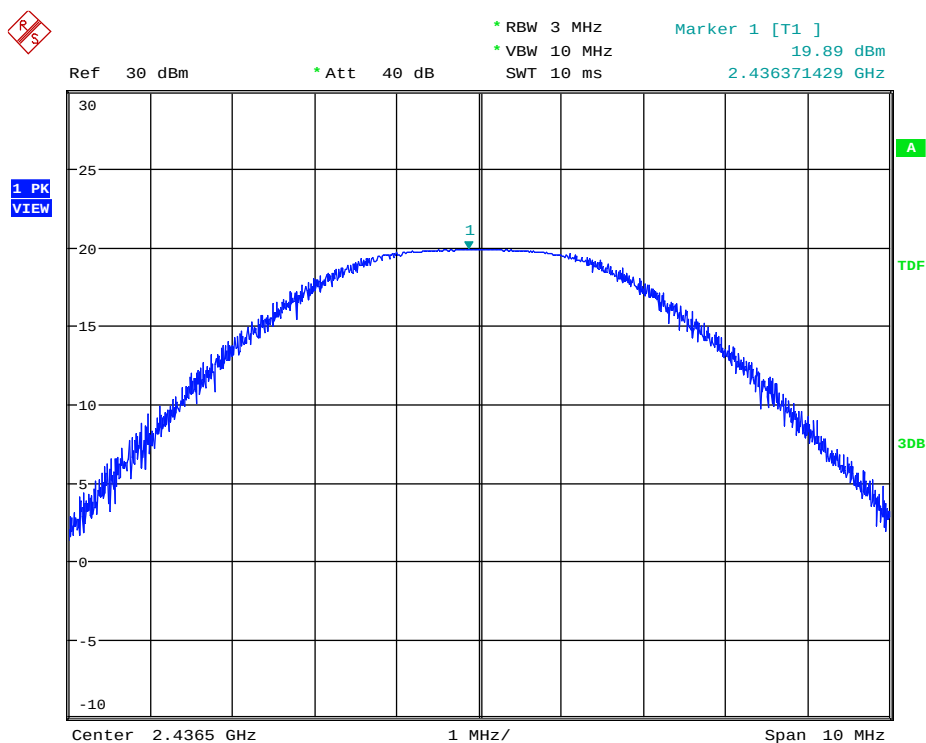


Plot 3: Conducted Power-RCM24G-MSK-50Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

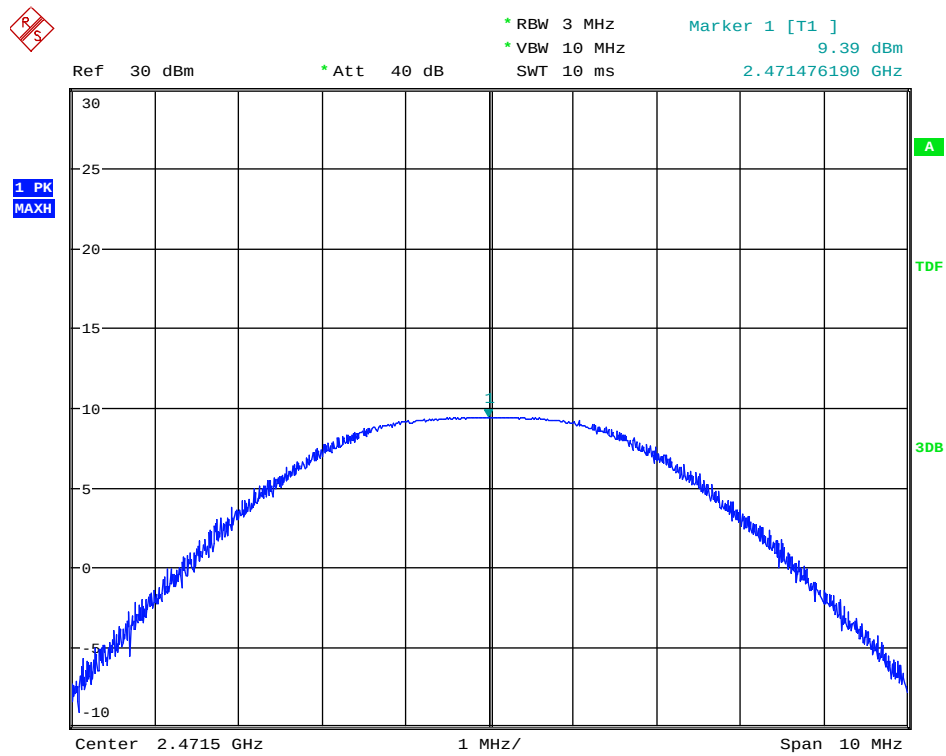
1.1.2. MSK-Data Rate 100Kbps



Plot 4: Conducted Power-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm

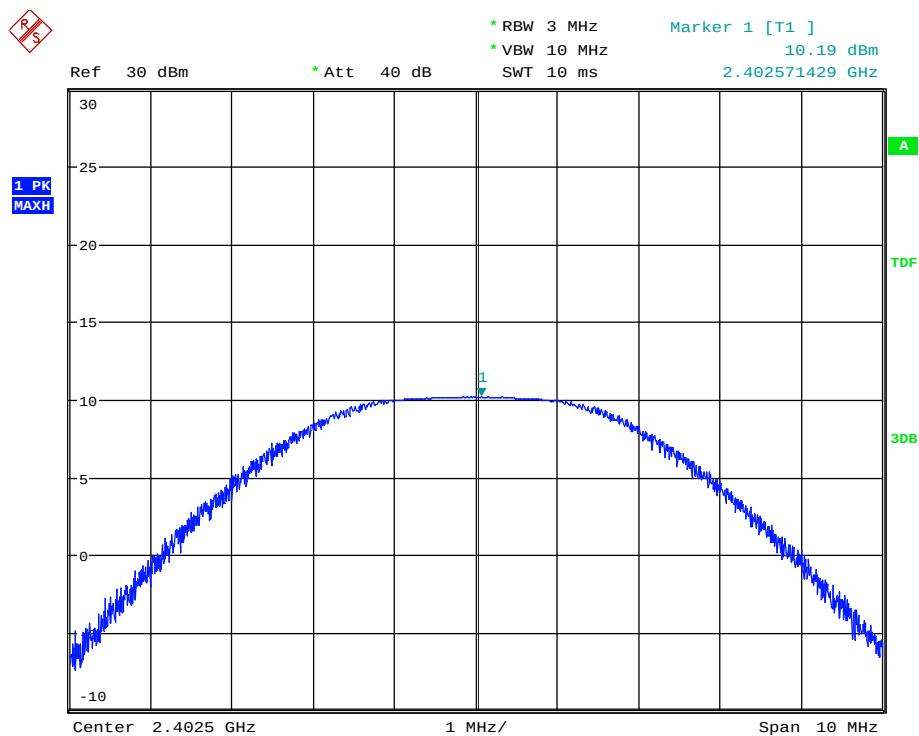


Plot 5: Conducted Power-RCM24G-MSK-100Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

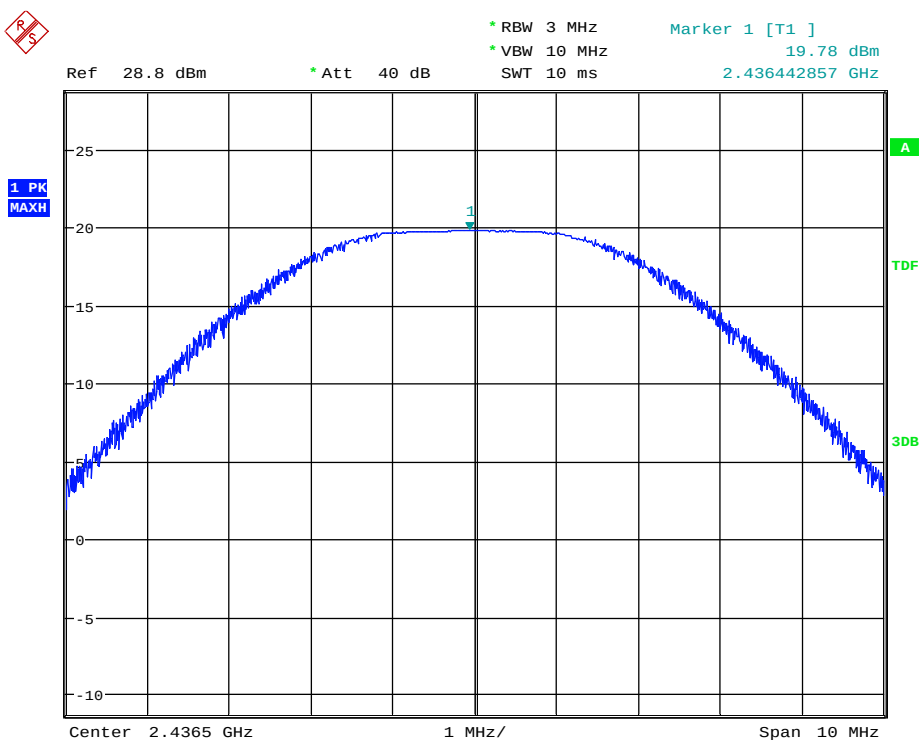


Plot 6: Conducted Power-RCM24G-MSK-100Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

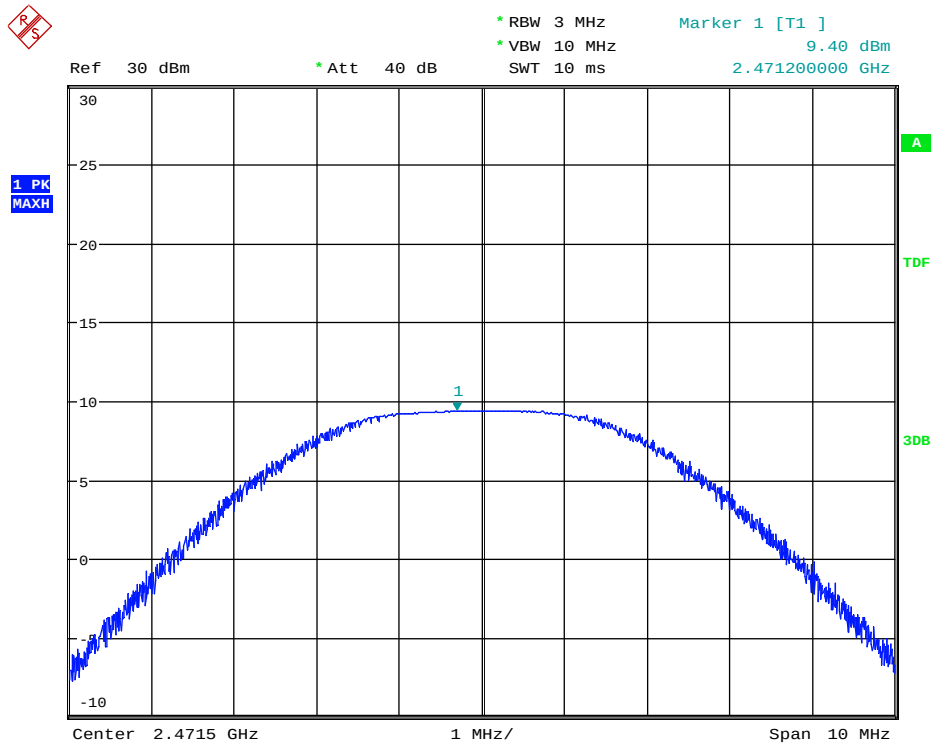
1.1.3. MSK-Data Rate 250Kbps



Plot 7: Conducted Power-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm

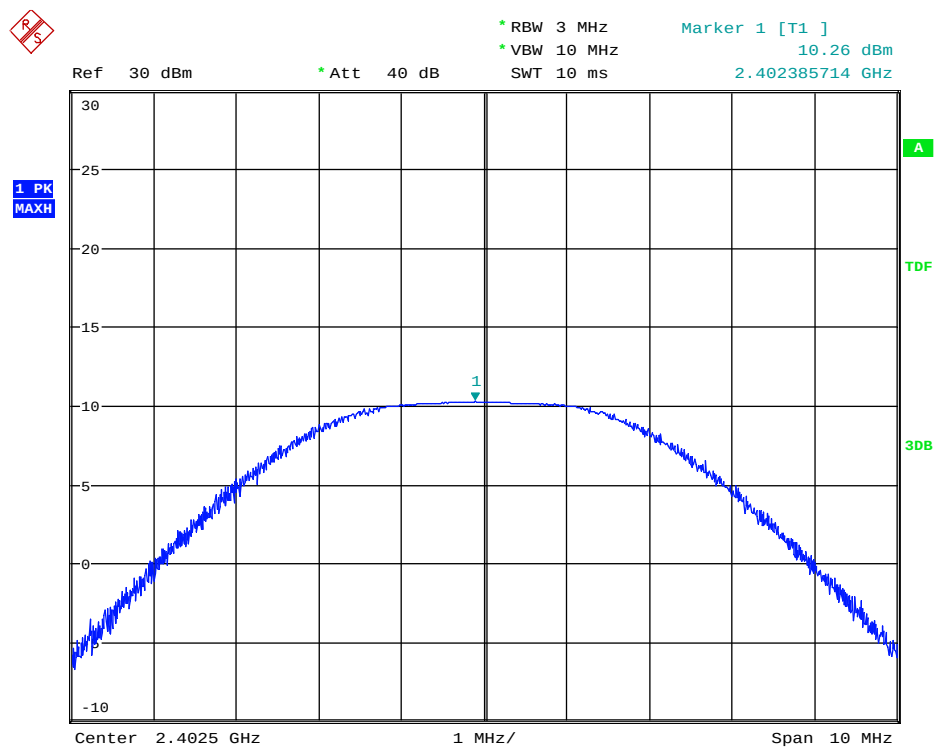


Plot 8: Conducted Power-RCM24G-MSK-250Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

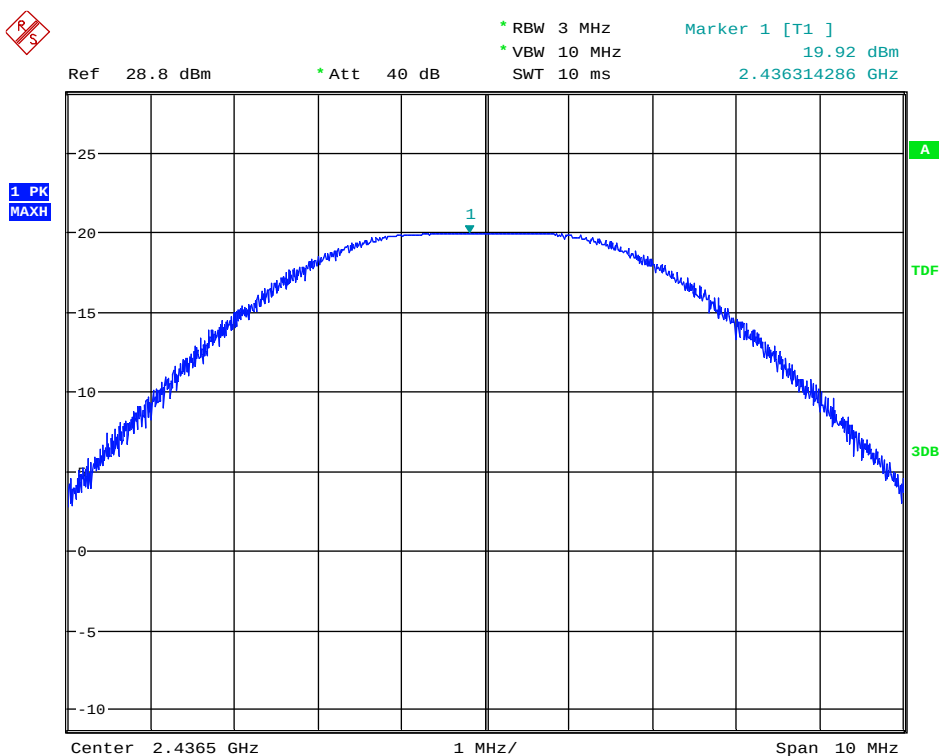


Plot 9: Conducted Power-RCM24G-MSK-250Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

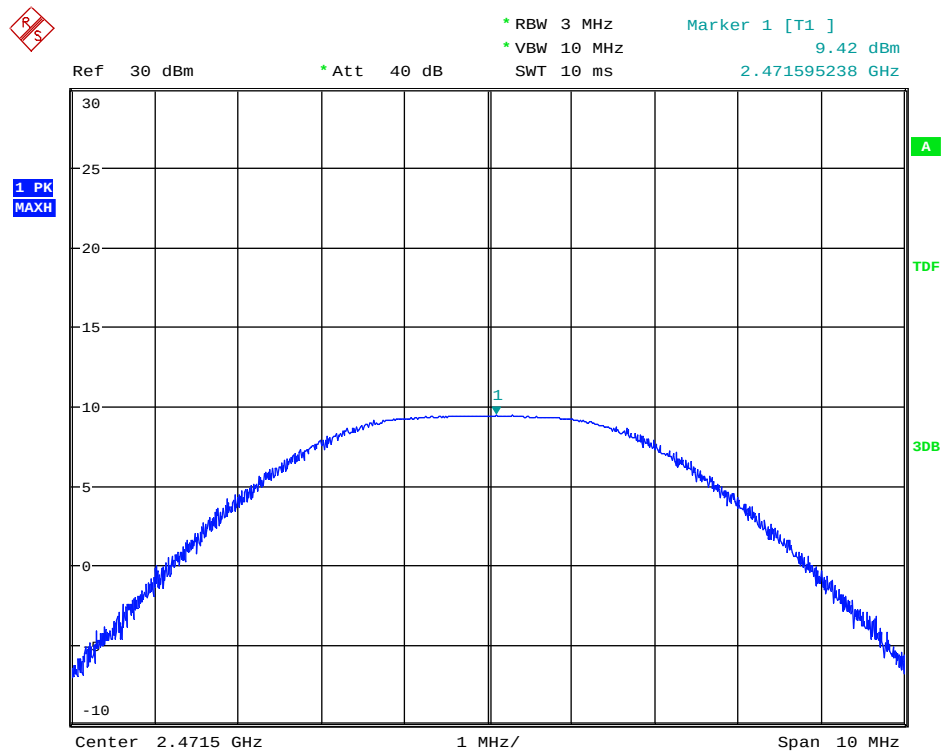
1.1.4. MSK-Data Rate 500Kbps



Plot 10: Conducted Power-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



Plot 11: Conducted Power-RCM24G-MSK-500Kbps-Ch34 (2436.5 MHz)-PWR+21dBm



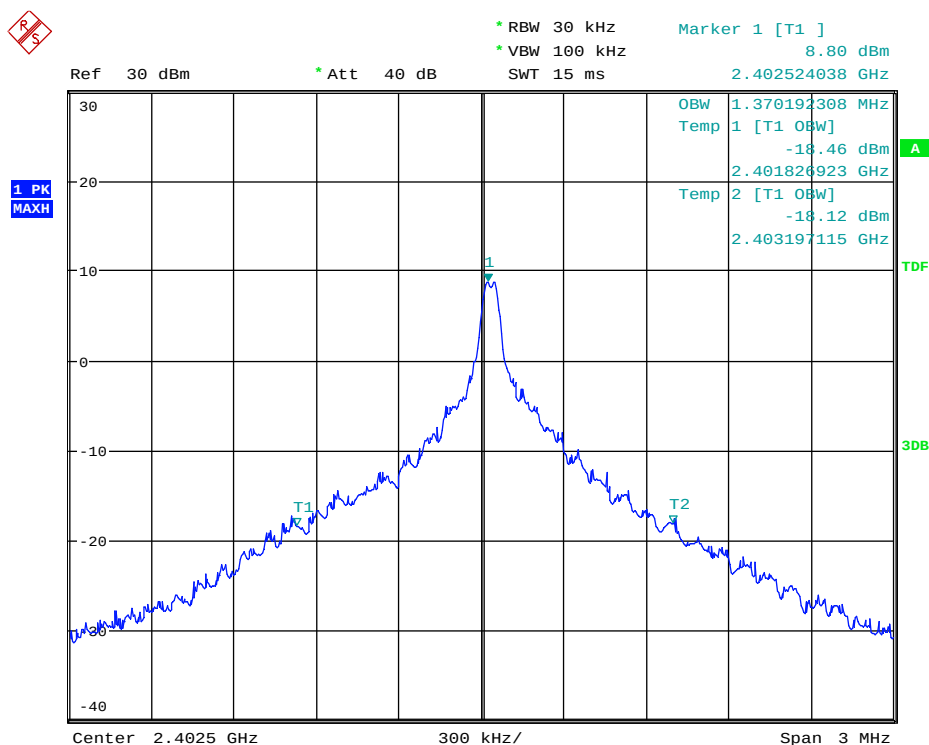
Plot 12: Conducted Power-RCM24G-MSK-500Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

Tabular Summary of Conducted Power Measurements

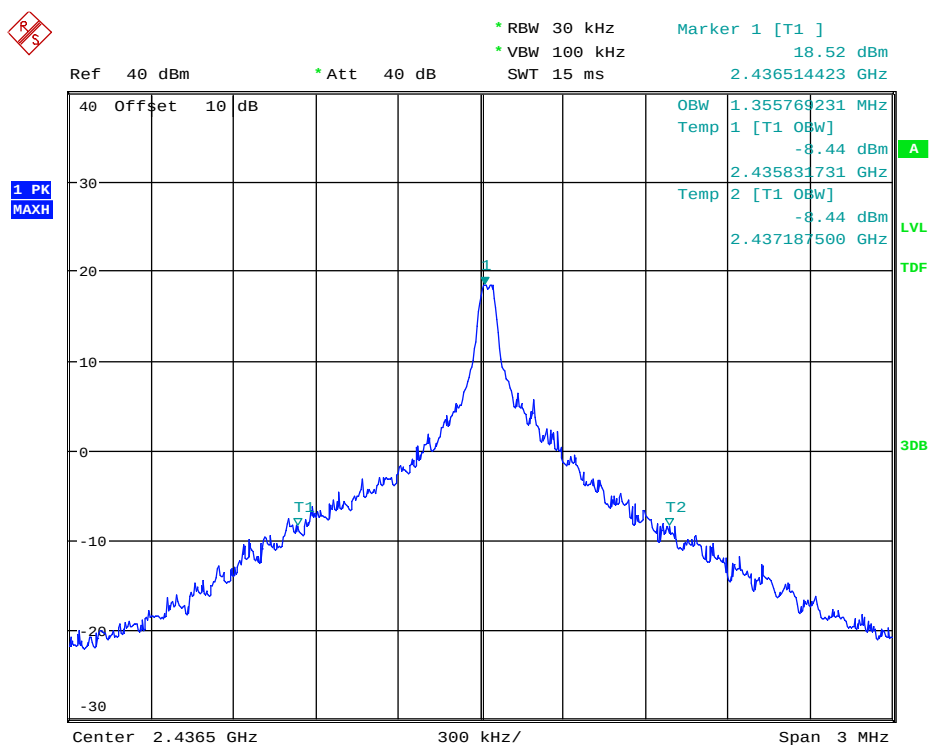
Conducted Peak Power Measurements for Proprietary 2.4GHz FHSS (MSK) Modes				
Bluetooth FHSS (Mode)	Modulation (Data Rate)	Channel No. (Channel Frequency)	Conducted Peak Power (dBm)	Conducted Peak Power (mW)
2402.5 -24710.5 MHz (70 Channels FHSS Mode)	MSK (50 Kbps)	Channel No. 0 (2402,5 MHz)	10,19	10,45
	MSK (50 Kbps)	Channel No. 34 (2436,5 MHz)	19,93	98,40
	MSK (50 Kbps)	Channel No.69 (2471,5 MHz)	9,32	8,55
	MSK (100 Kbps)	Channel No. 0 (2402,5 MHz)	10,20	10,47
	MSK (100 Kbps)	Channel No. 34 (2436,5 MHz)	19,89	97,50
	MSK (100 Kbps)	Channel No.69 (2471,5 MHz)	9,39	8,69
	MSK (250 Kbps)	Channel No. 0 (2402,5 MHz)	10,19	10,45
	MSK (250 Kbps)	Channel No. 34 (2436,5 MHz)	19,78	95,06
	MSK (250 Kbps)	Channel No.69 (2471,5 MHz)	9,40	8,71
	MSK (500 Kbps)	Channel No. 0 (2402,5 MHz)	10,26	10,62
	MSK (500 Kbps)	Channel No. 34 (2436,5 MHz)	19,92	98,17
	MSK (500 Kbps)	Channel No.69 (2471,5 MHz)	9,42	8,75
FCC 15.247 Conducted Peak Power Limits			20.97 dBm	125 mW
RSS-247 Issue2 Limits				

1.2. 99% Occupied Bandwidth

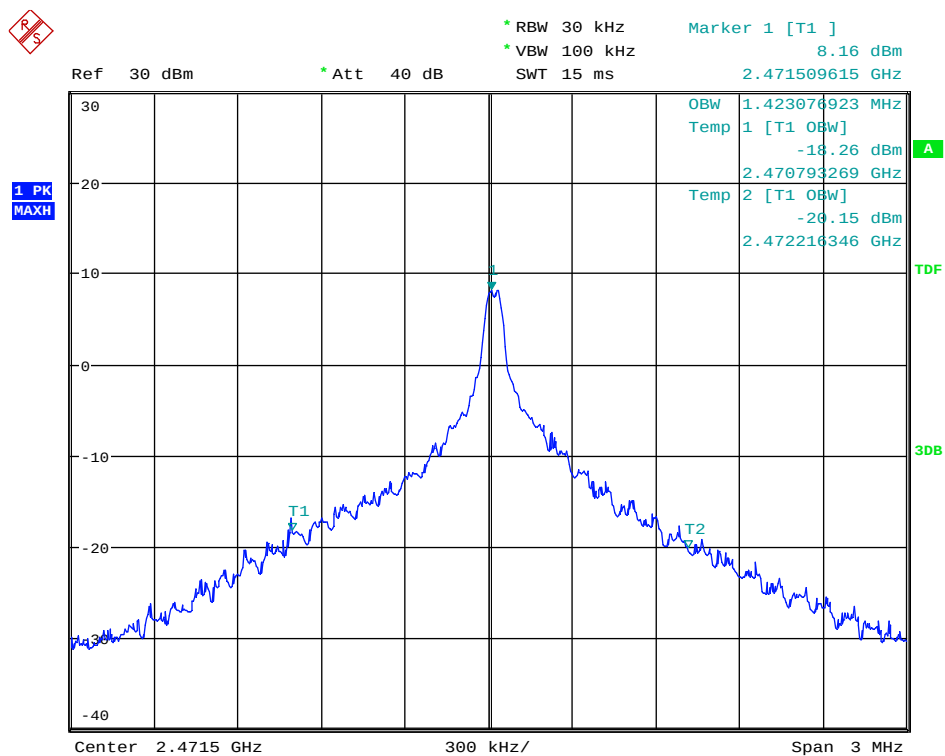
1.2.1. MSK-Data Rate 50Kbps



Plot 13: 99% OBW-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm

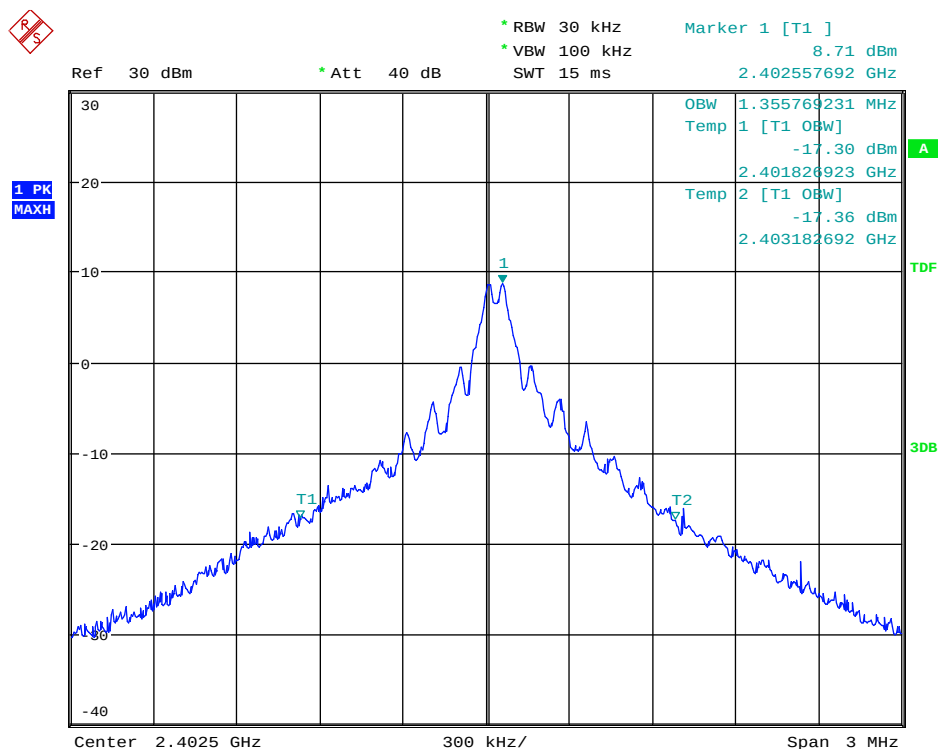


Plot 14: 99% OBW-RCM24G-MSK-50Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

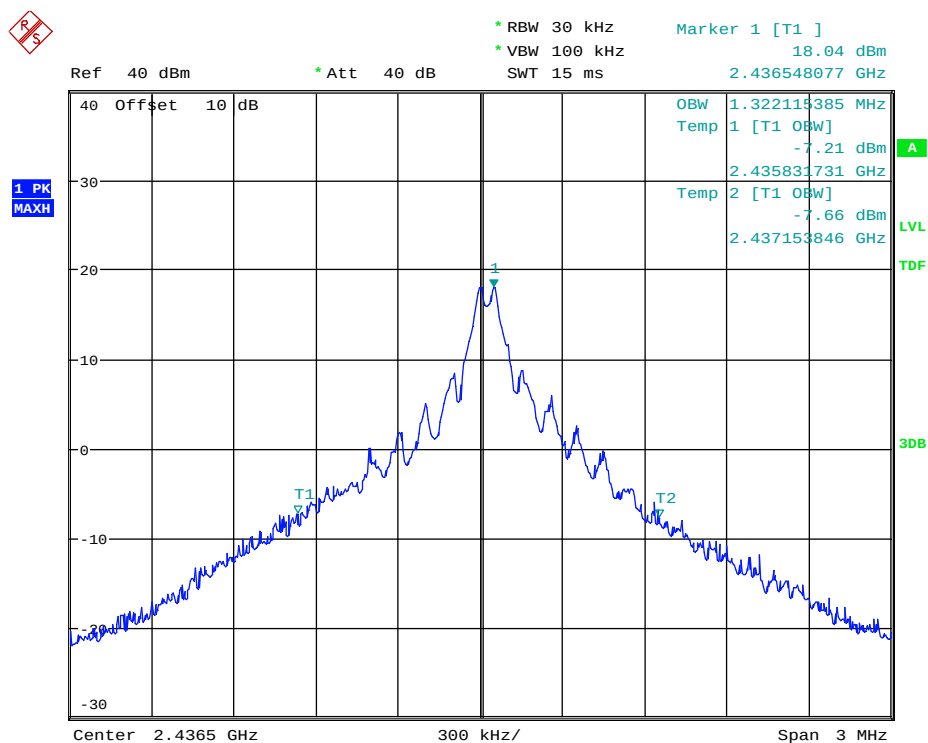


Plot 15: 99% OBW-RCM24G-MSK-50Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

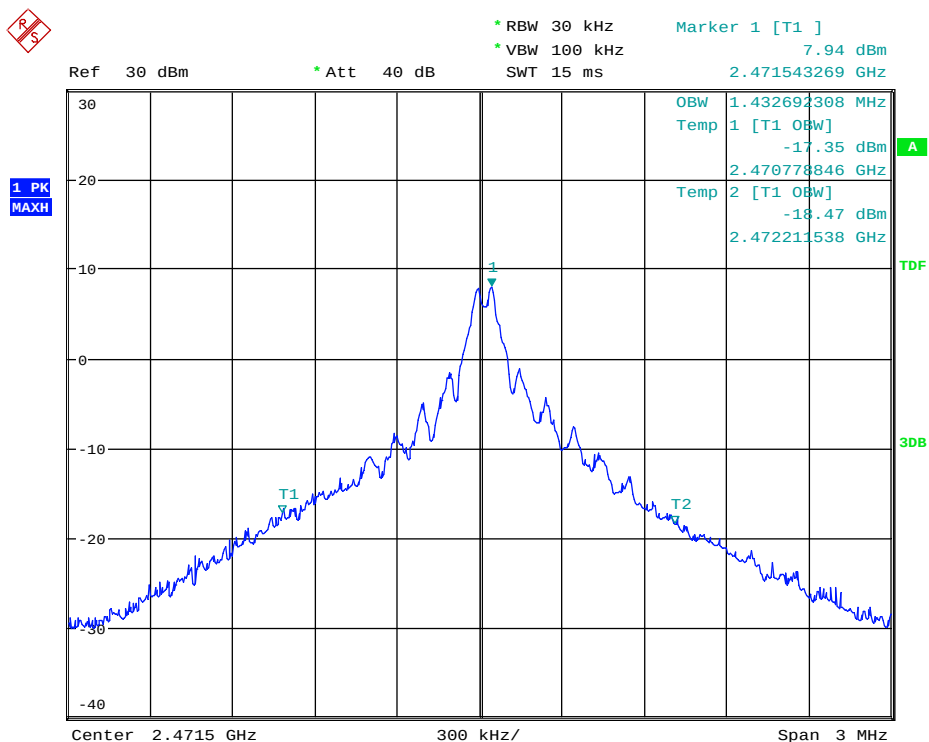
1.2.2. MSK-Data Rate 100Kbps



Plot 16: 99% OBW-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm

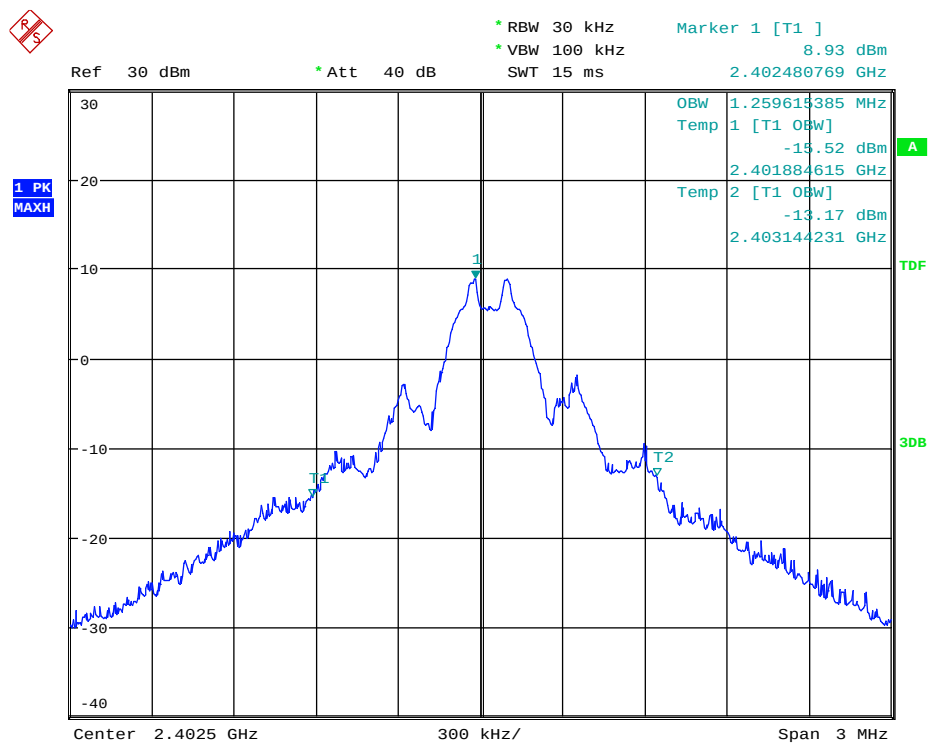


Plot 17: 99% OBW-RCM24G-MSK-100Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

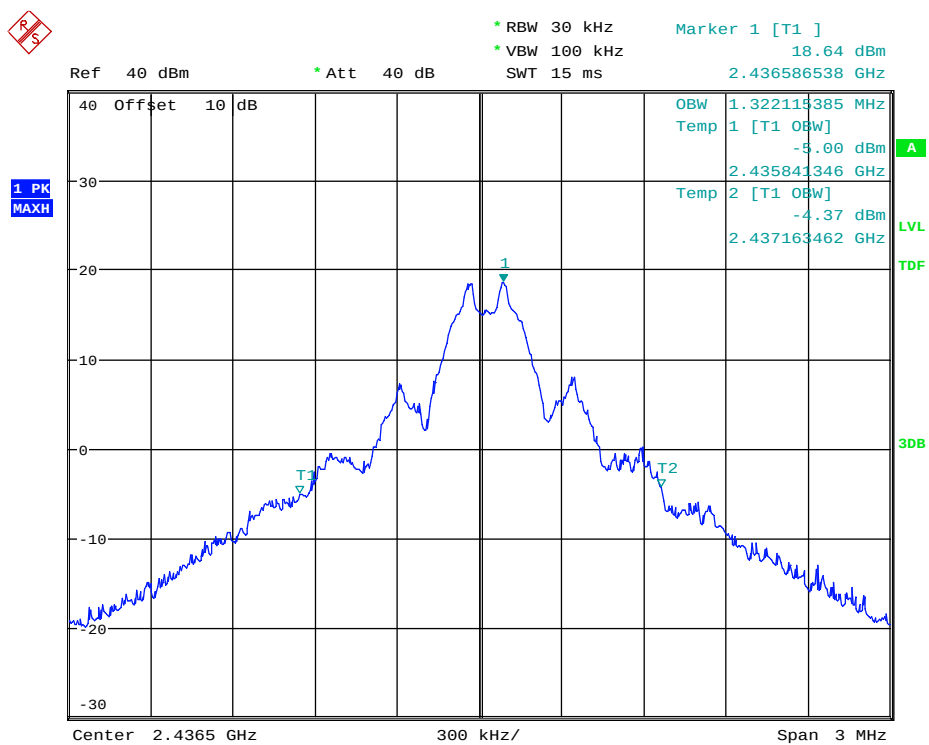


Plot 18: 99% OBW-RCM24G-MSK-100Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

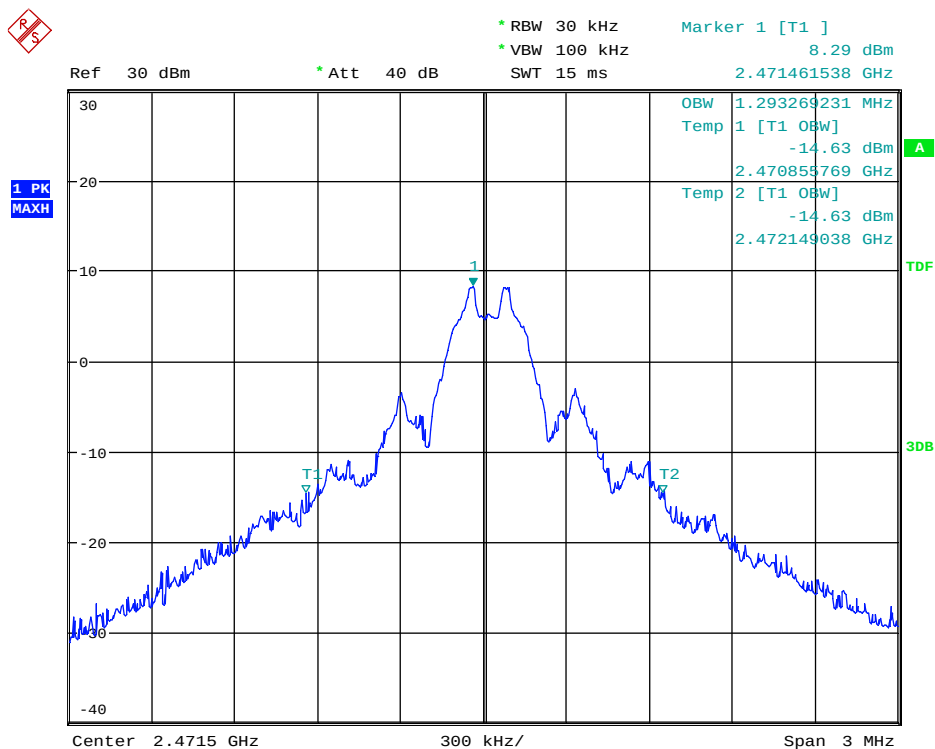
1.2.3. MSK-Data Rate 250Kbps



Plot 19: 99% OBW-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm

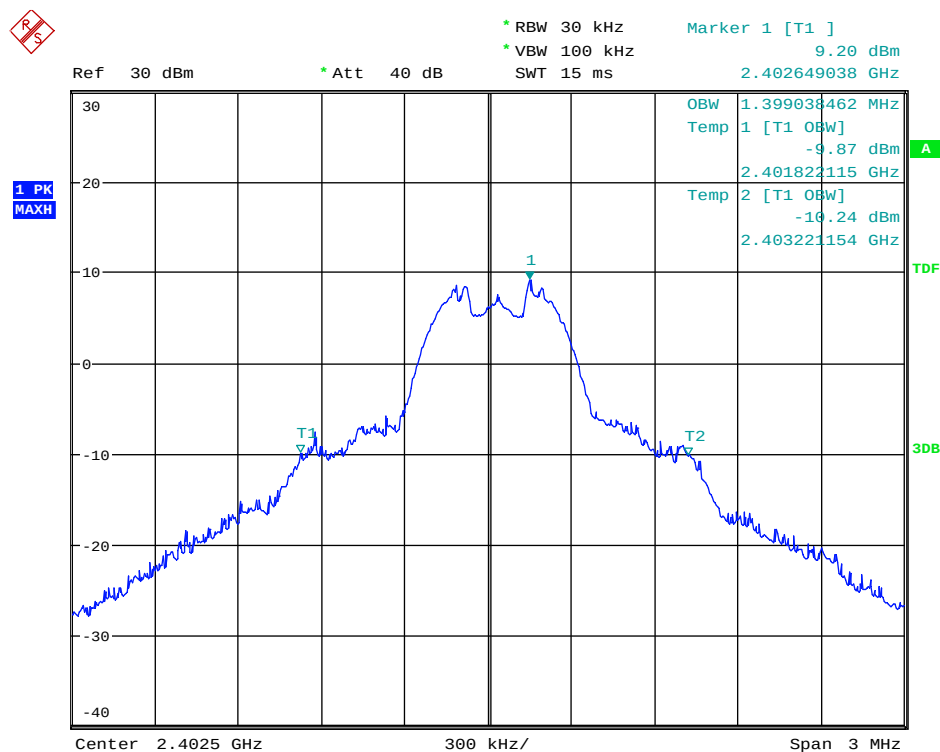


Plot 20: 99% OBW-RCM24G-MSK-250Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

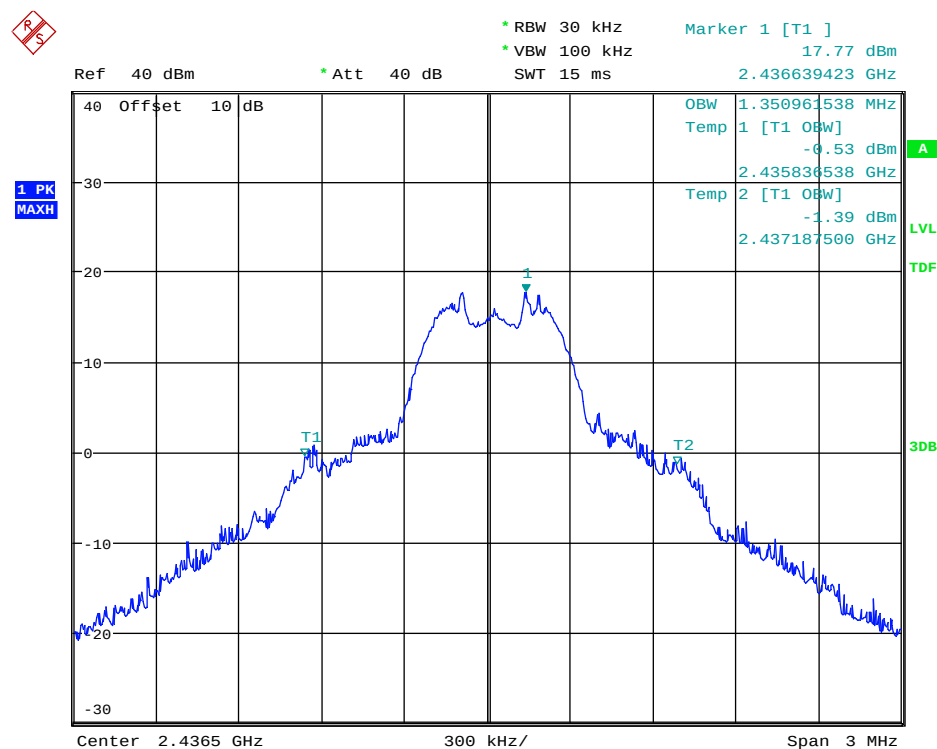


Plot 21: 99% OBW-RCM24G-MSK-250Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

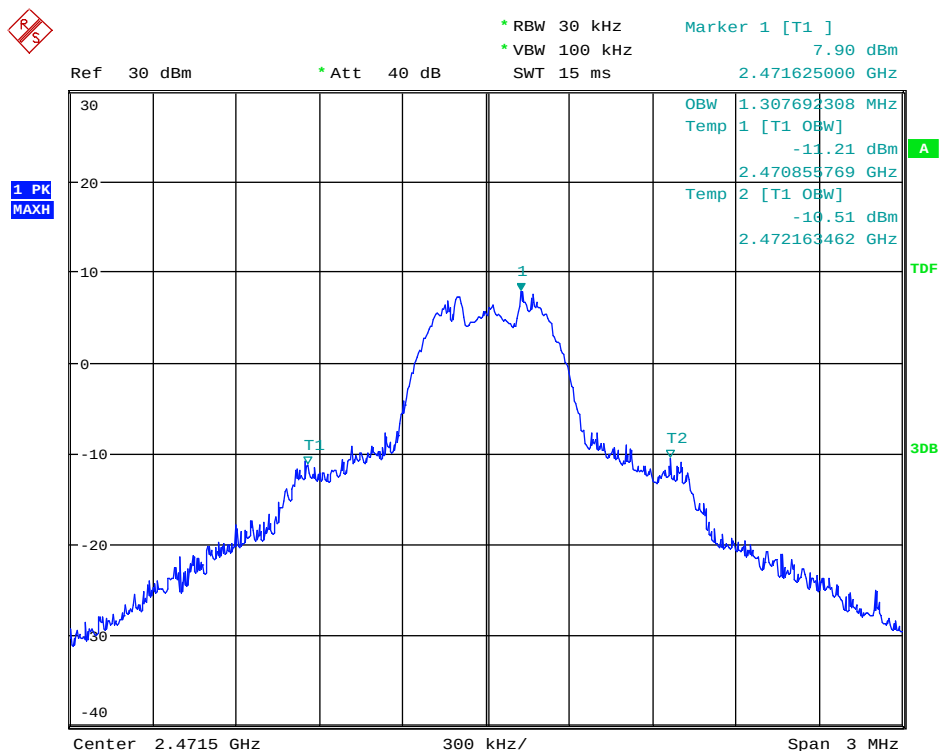
1.2.4. MSK-Data Rate 500Kbps



Plot 22: 99% OBW-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



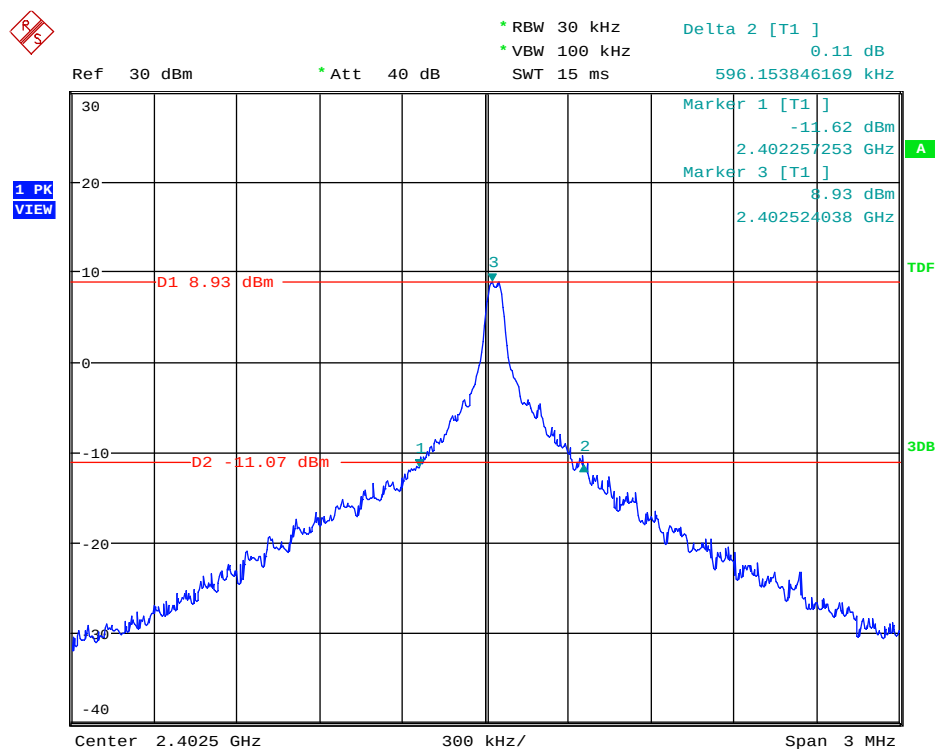
Plot 23: 99% OBW-RCM24G-MSK-500Kbps-Ch34 (2436.5 MHz)-PWR+21dBm



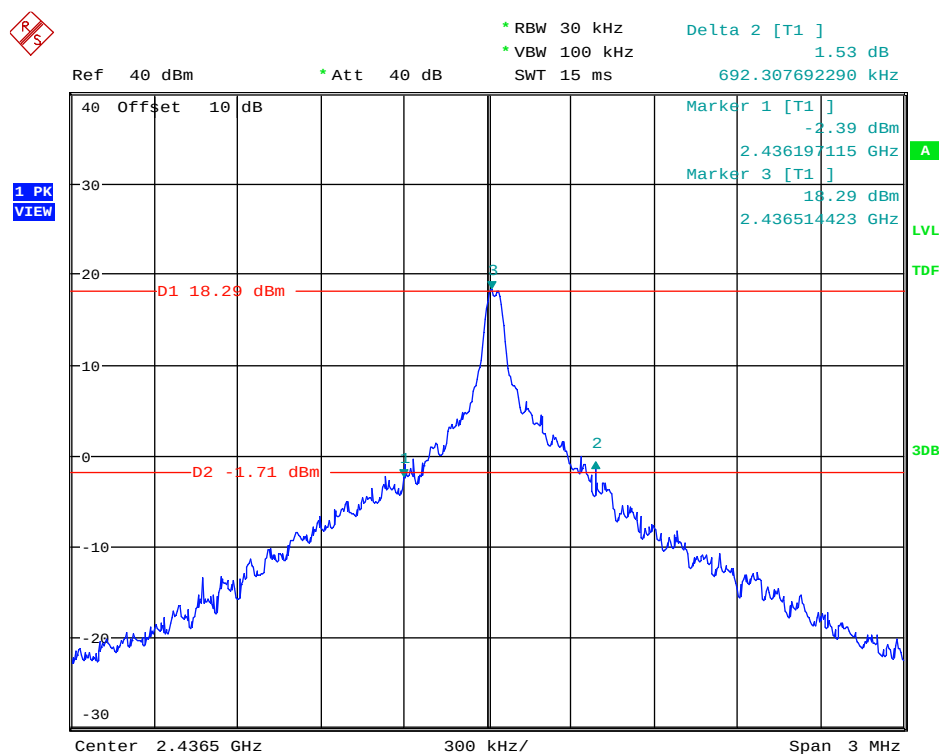
Plot 24: 99% OBW-RCM24G-MSK-500Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

1.3. 20 dB Bandwidth

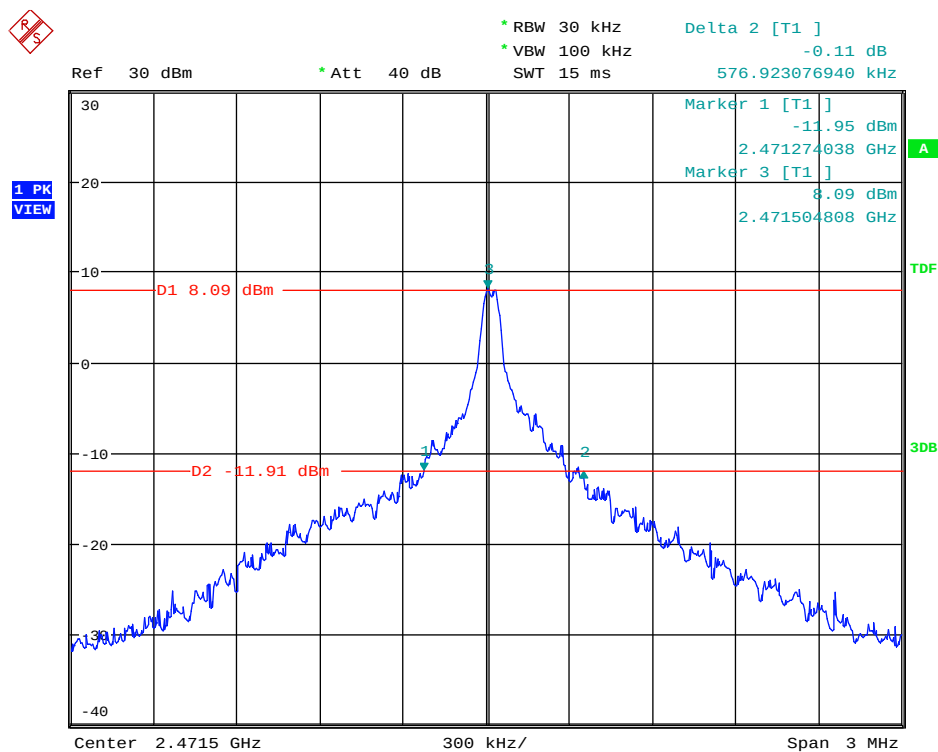
1.3.1. MSK-Data Rate 50Kbps



Plot 25: 20dB B.W.-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm

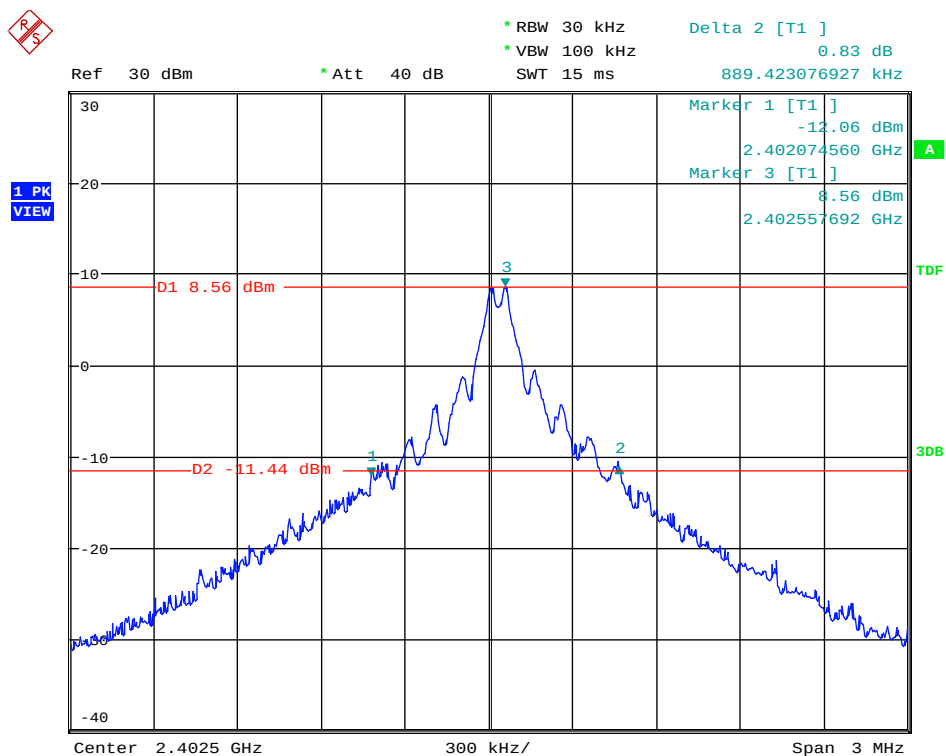


Plot 26: 20dB B.W.-RCM24G-MSK-50Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

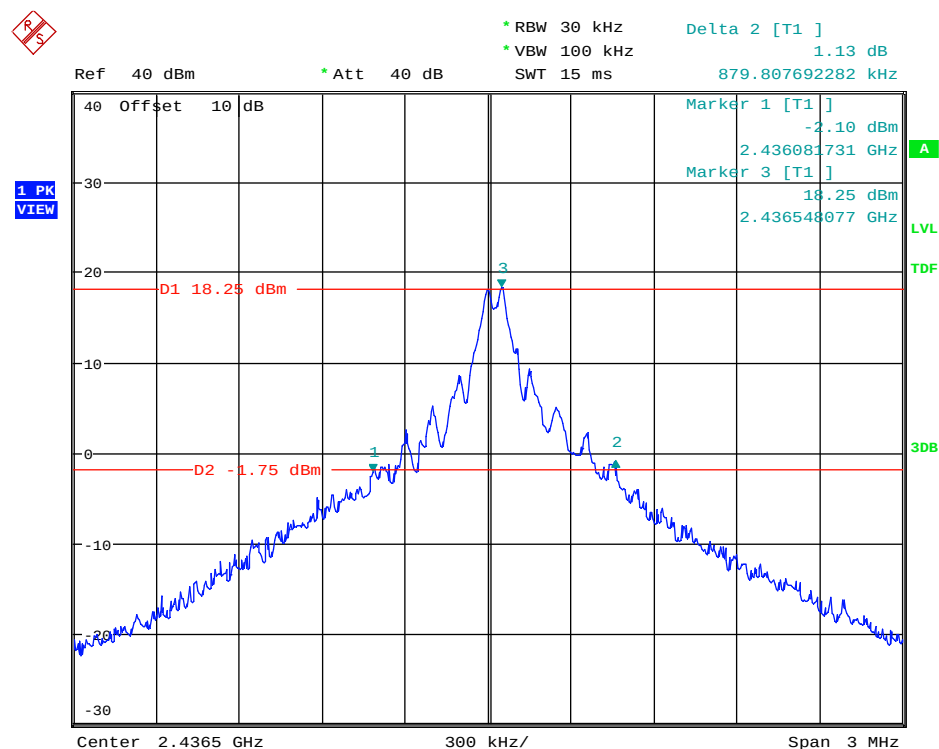


Plot 27: 20dB B.W.-RCM24G-MSK-50Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

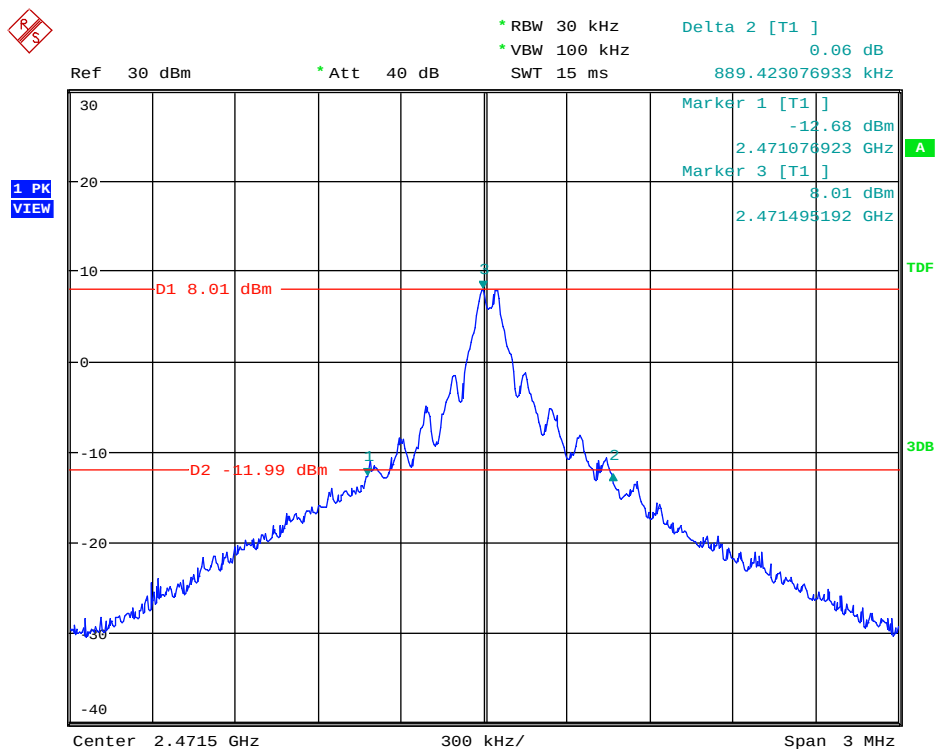
1.3.2. MSK-Data Rate 100Kbps



Plot 28: 20dB B.W.-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm

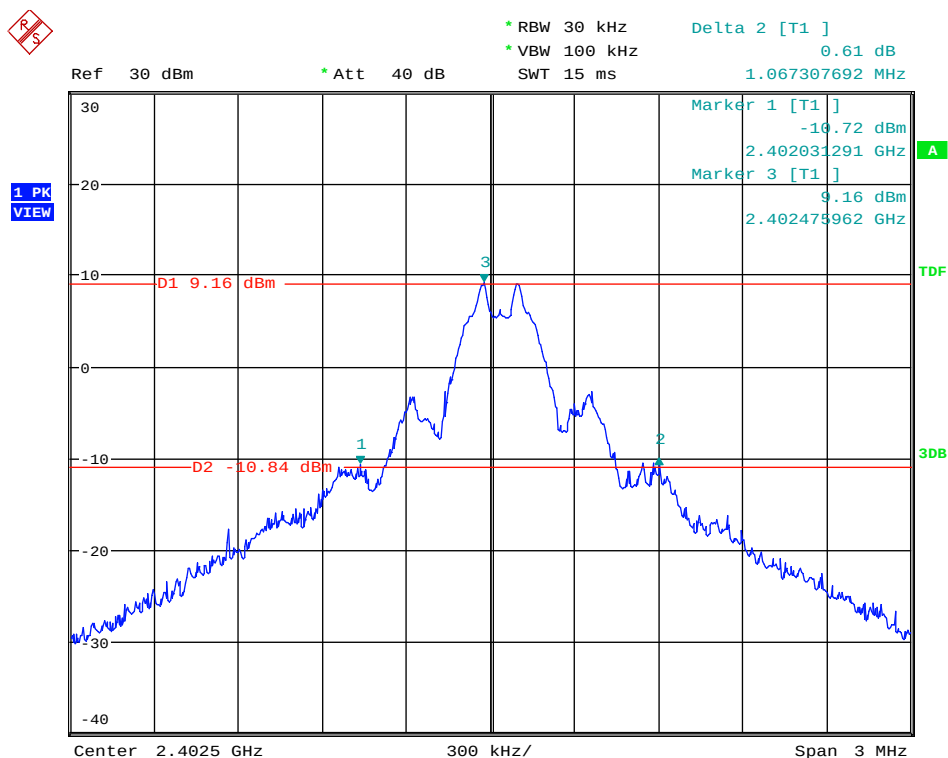


Plot 29: 20dB B.W.-RCM24G-MSK-100Kbps-Ch34 (2436.5 MHz)-PWR+21dBm

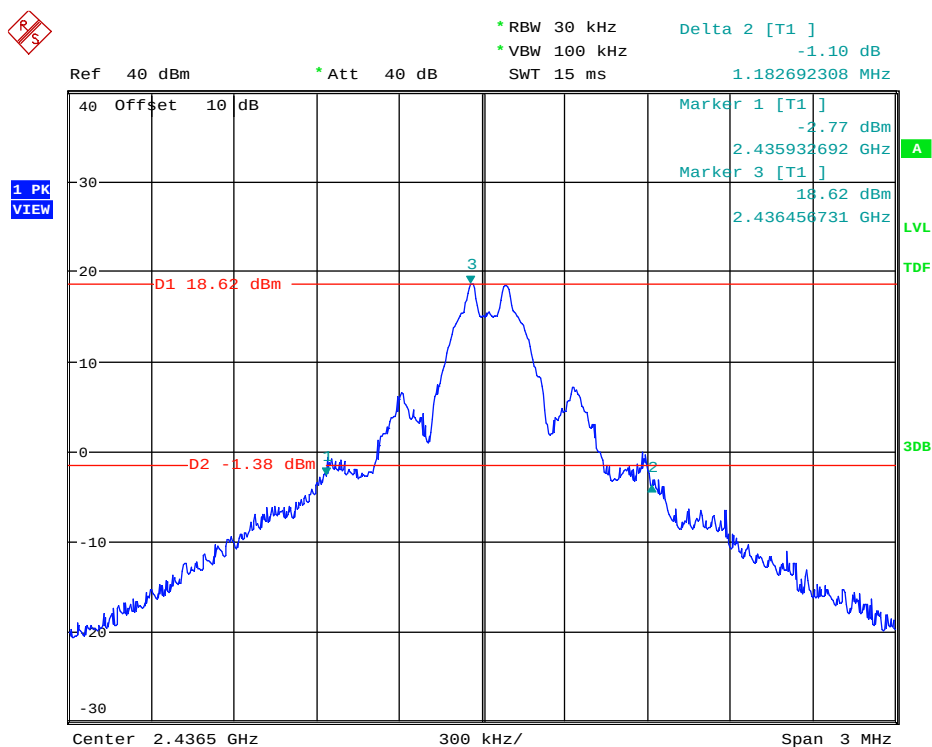


Plot 30: 20dB B.W.-RCM24G-MSK-100Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

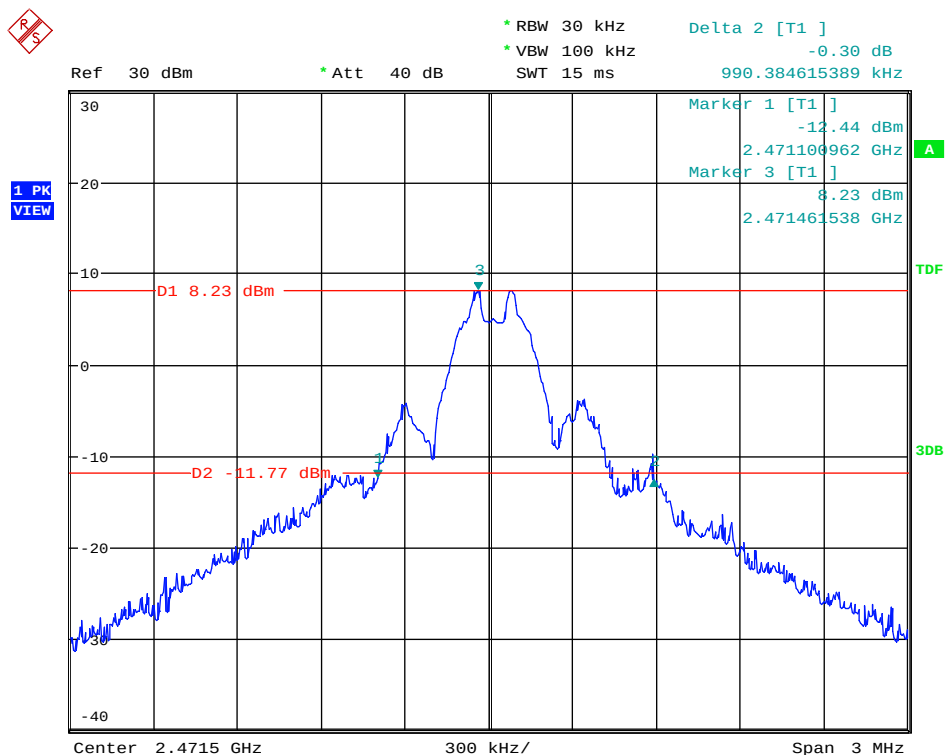
1.3.3. MSK-Data Rate 250Kbps



Plot 31: 20dB B.W.-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm

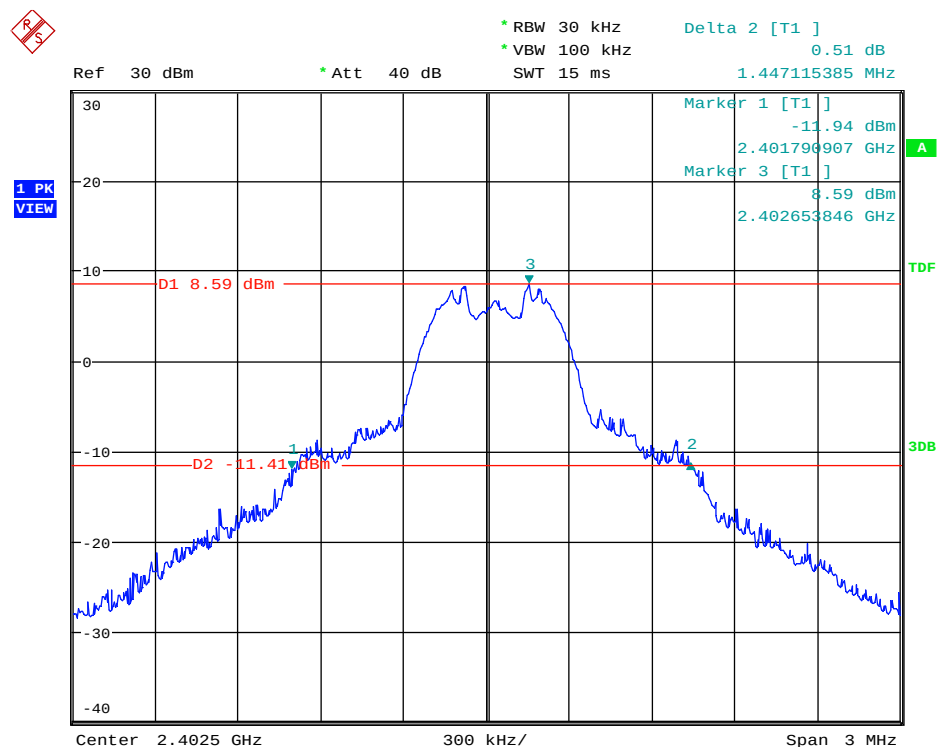


Plot 32: 20dB B.W.-RCM24G-MSK-250Kbps -Ch34 (2436.5 MHz)-PWR+21dBm

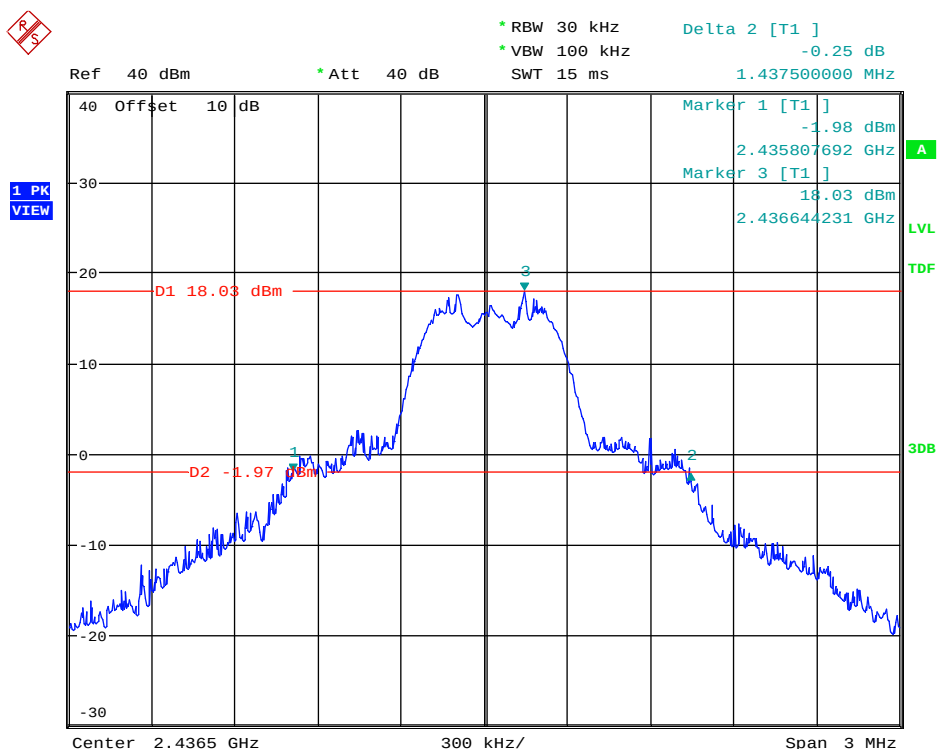


Plot 33: 20dB B.W.-RCM24G-MSK-250Kbps -Ch69 (2471.5 MHz)-PWR+12 dBm

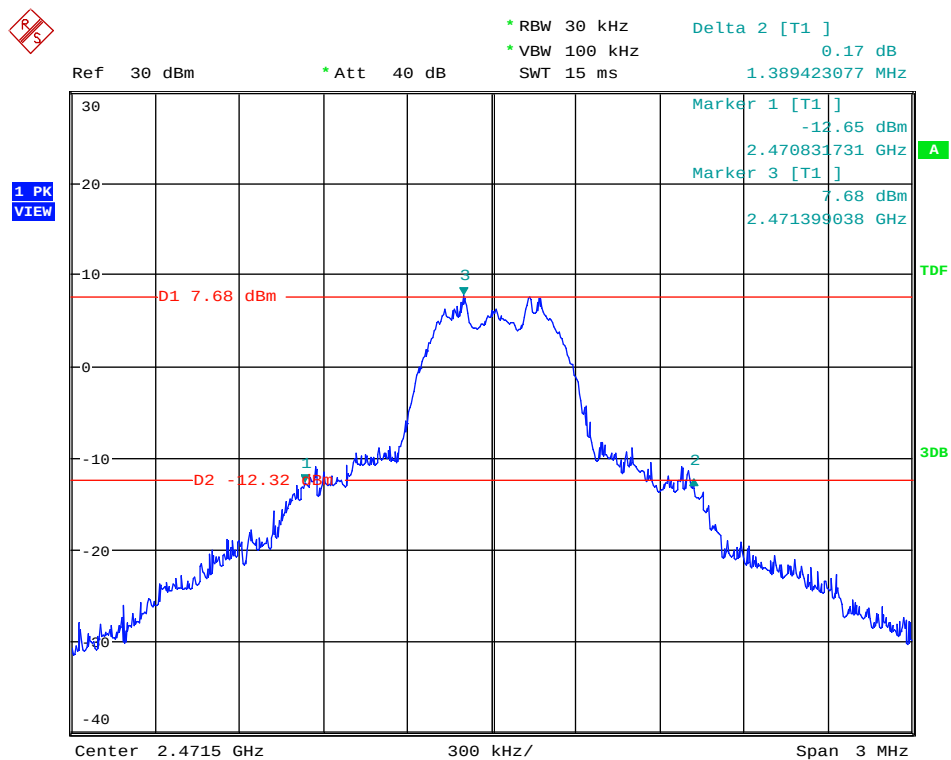
1.3.4. MSK-Data Rate 500Kbps



Plot 34: 20dB B.W.-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



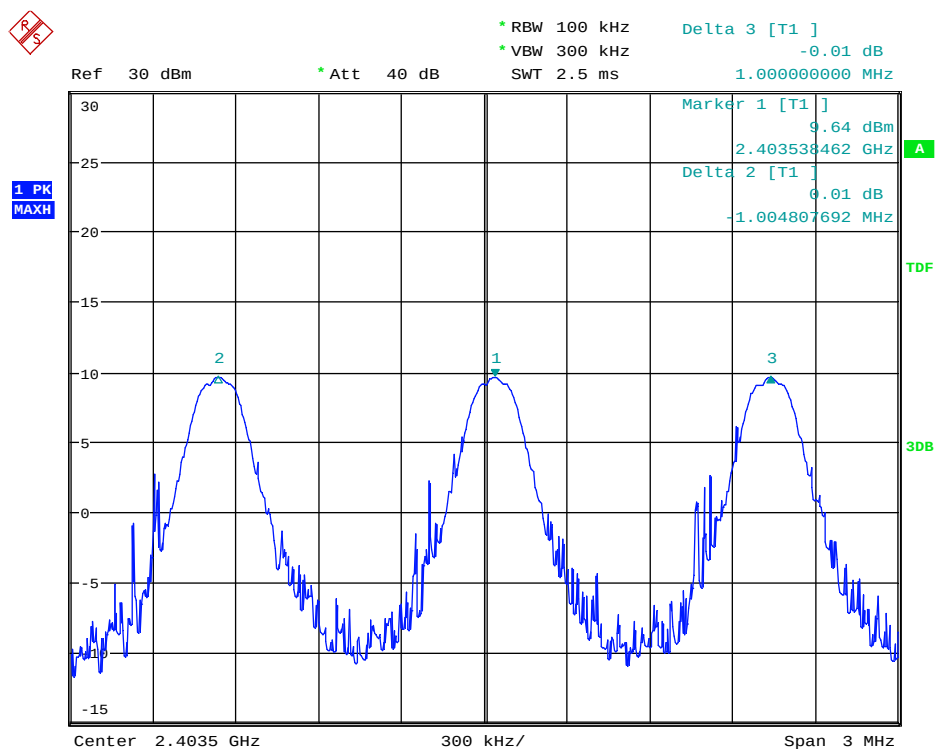
Plot 35: 20dB B.W.-RCM24G-MSK-500Kbps-Ch34 (2436.5 MHz)-PWR+21dBm



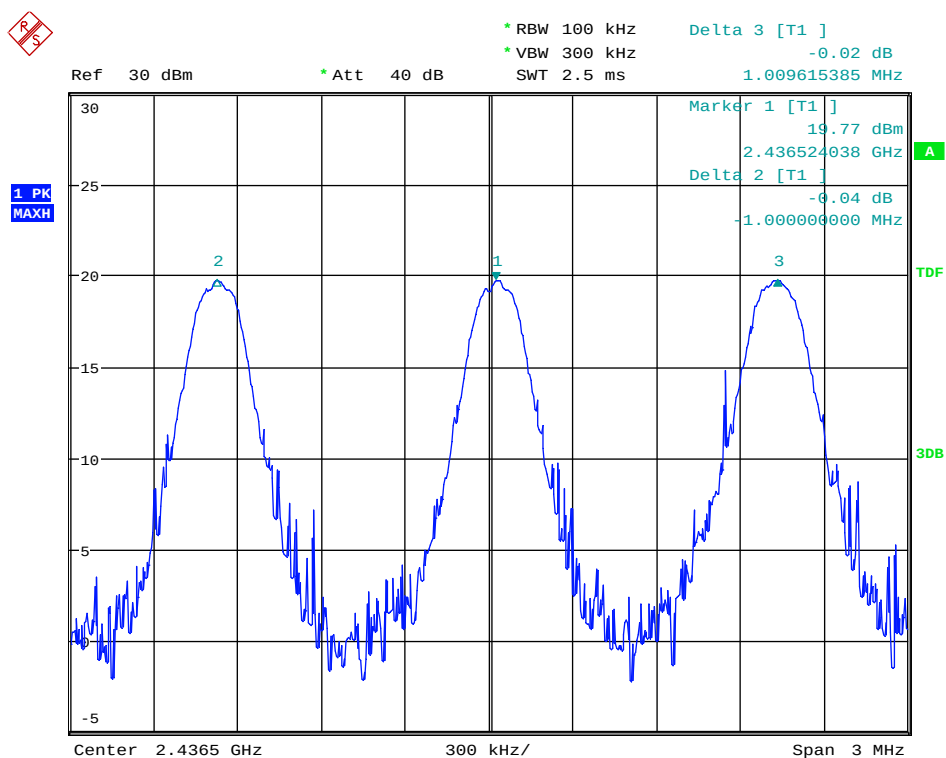
Plot 36: 20dB B.W.-RCM24G-MSK-500Kbps-Ch69 (2471.5 MHz)-PWR+12 dBm

1.4. Carrier Frequency Separations (CFS)

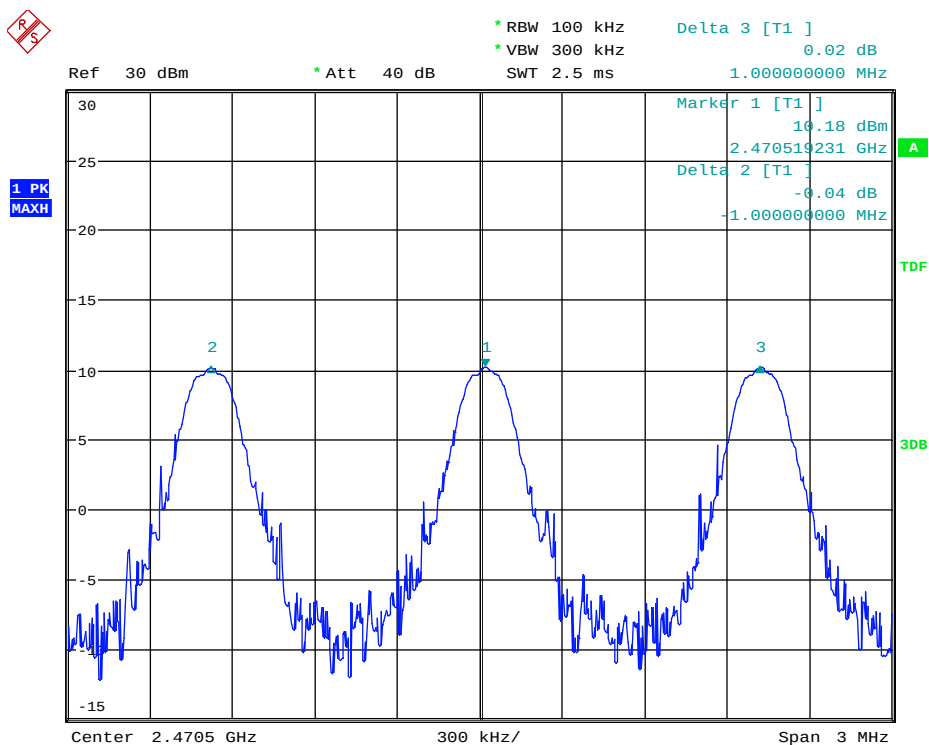
1.4.1. MSK-Data Rate 50Kbps



Plot 37: CFS-RCM24G-MSK-50Kbps-Ch0- Ch1- Ch2-PWR+12dBm

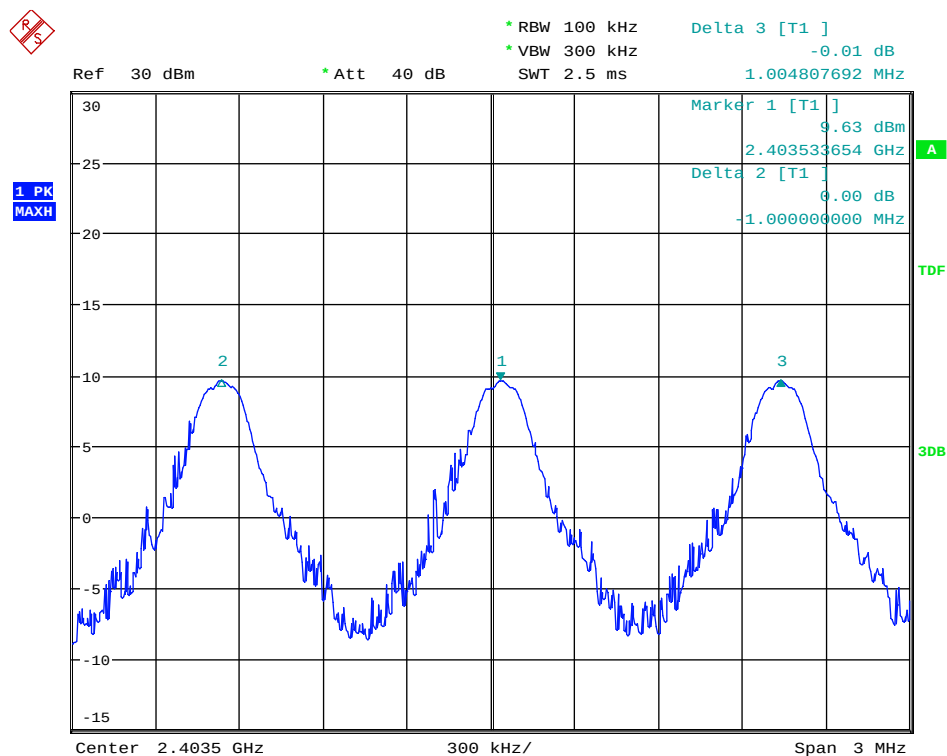


Plot 38: CFS-RCM24G-MSK-50Kbps-Ch33-Ch34-Ch35-PWR+21dBm

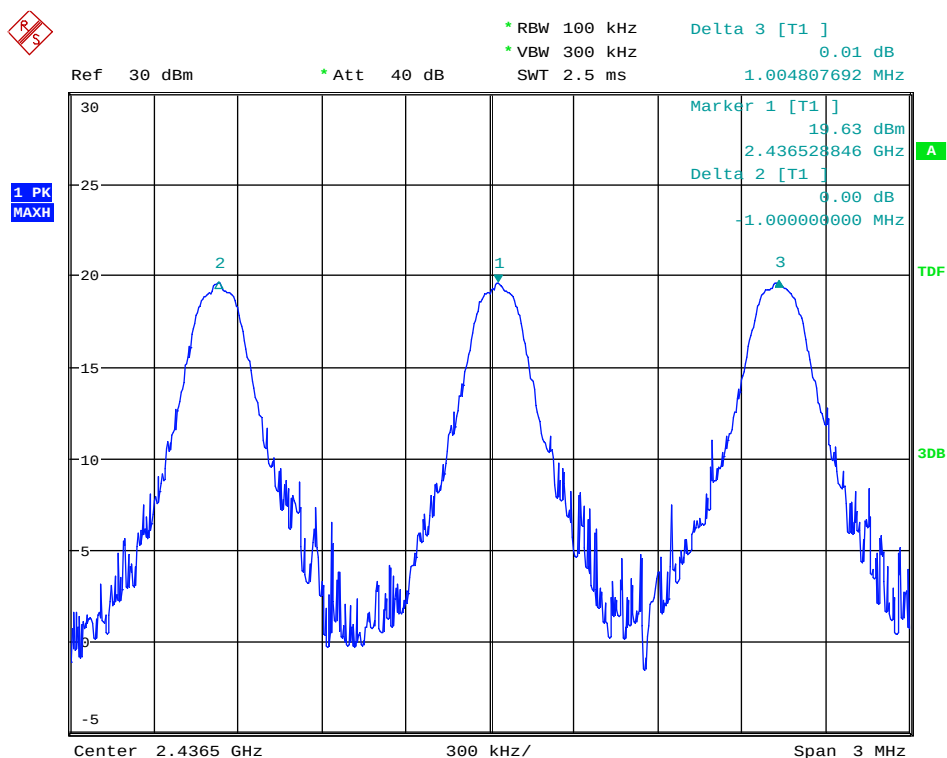


Plot 39: CFS-RCM24G-MSK-50Kbps-Ch67-Ch68-Ch69-PWR+12 dBm

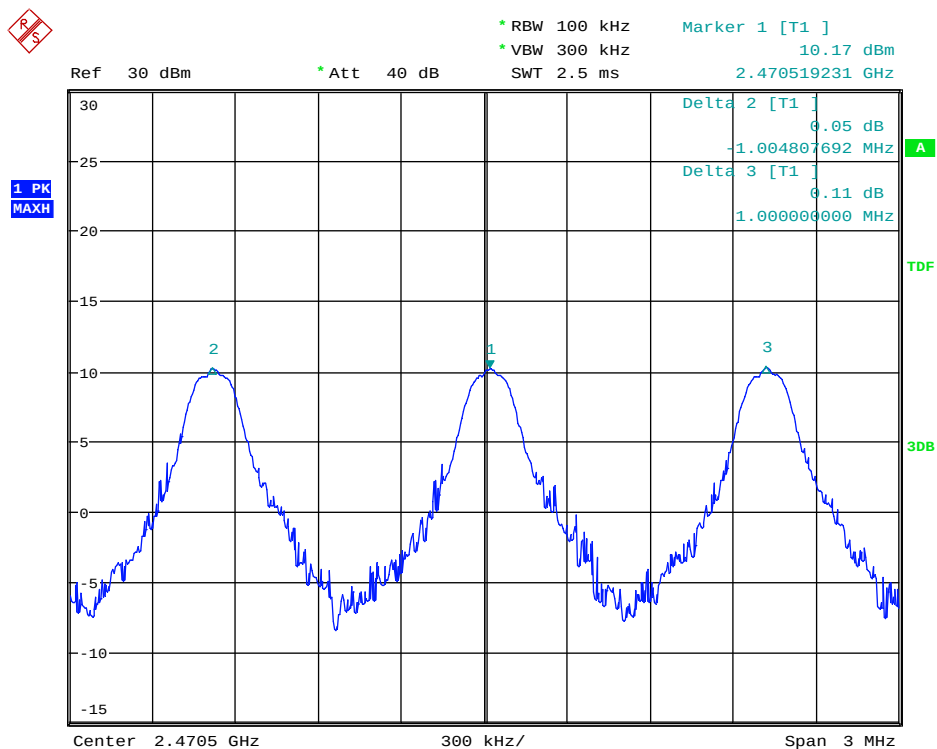
1.4.2. MSK-Data Rate 100Kbps



Plot 40: CFS-RCM24G-MSK-100Kbps-Ch0-Ch1-Ch2-PWR+12dBm

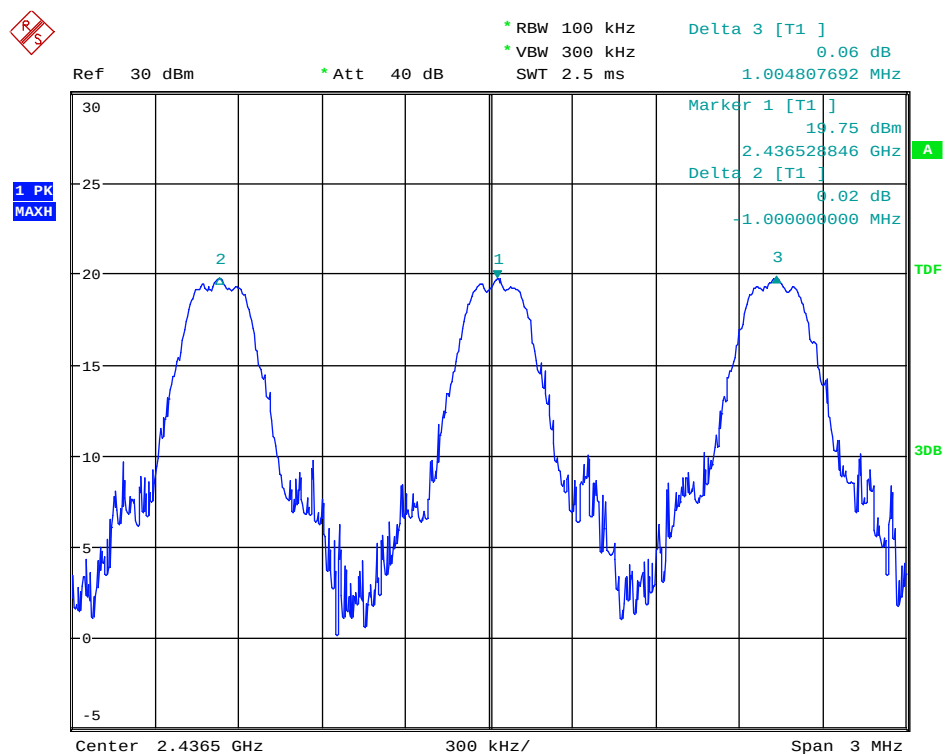
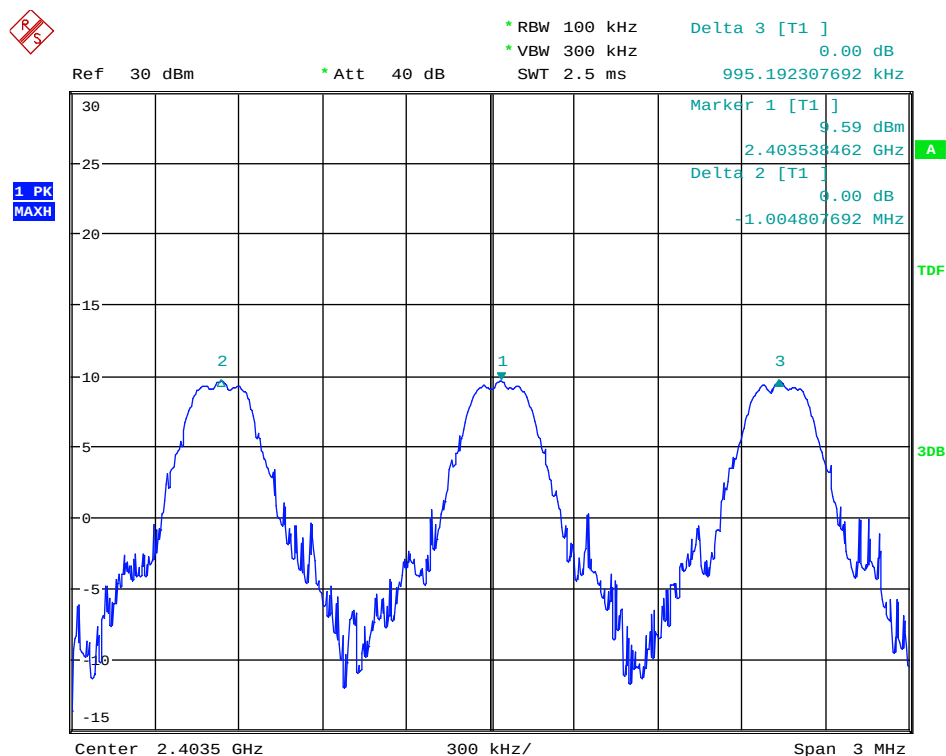


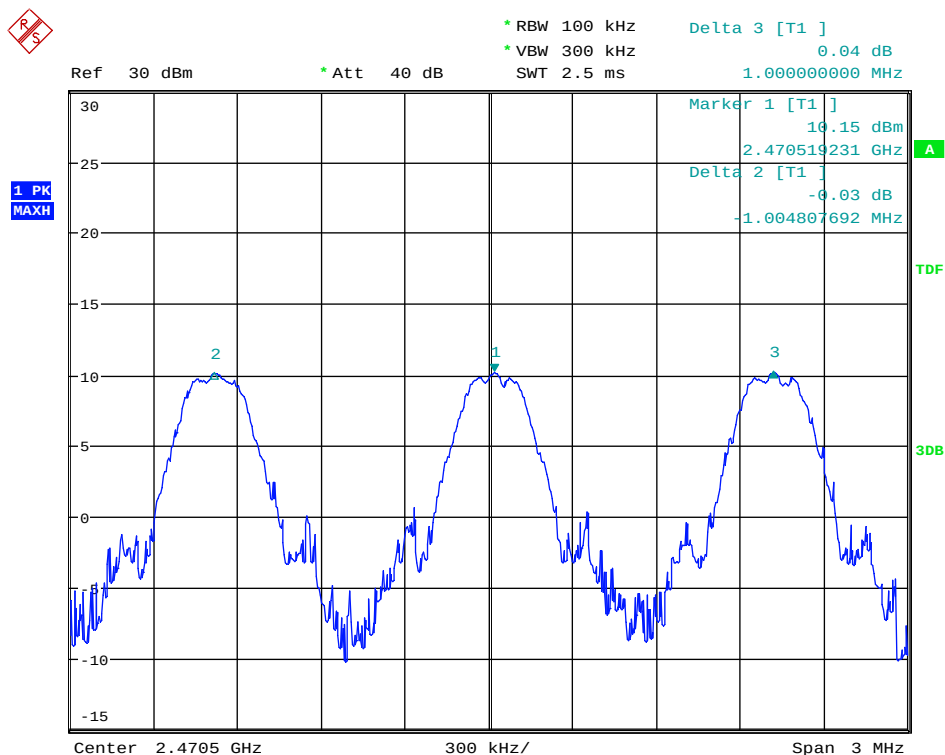
Plot 41: CFS-RCM24G-MSK-100Kbps-Ch33-Ch34-Ch35-PWR+21dBm



Plot 42: CFS-RCM24G-MSK-100Kbps-Ch67-Ch68-Ch69-PWR+12 dBm

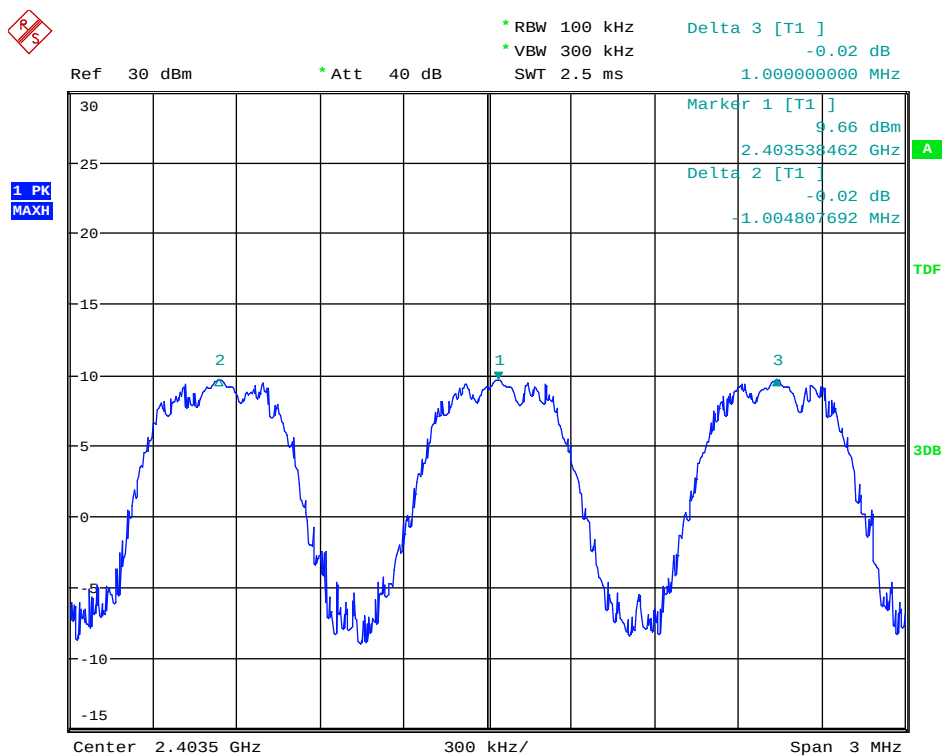
1.4.3. MSK-Data Rate 250Kbps



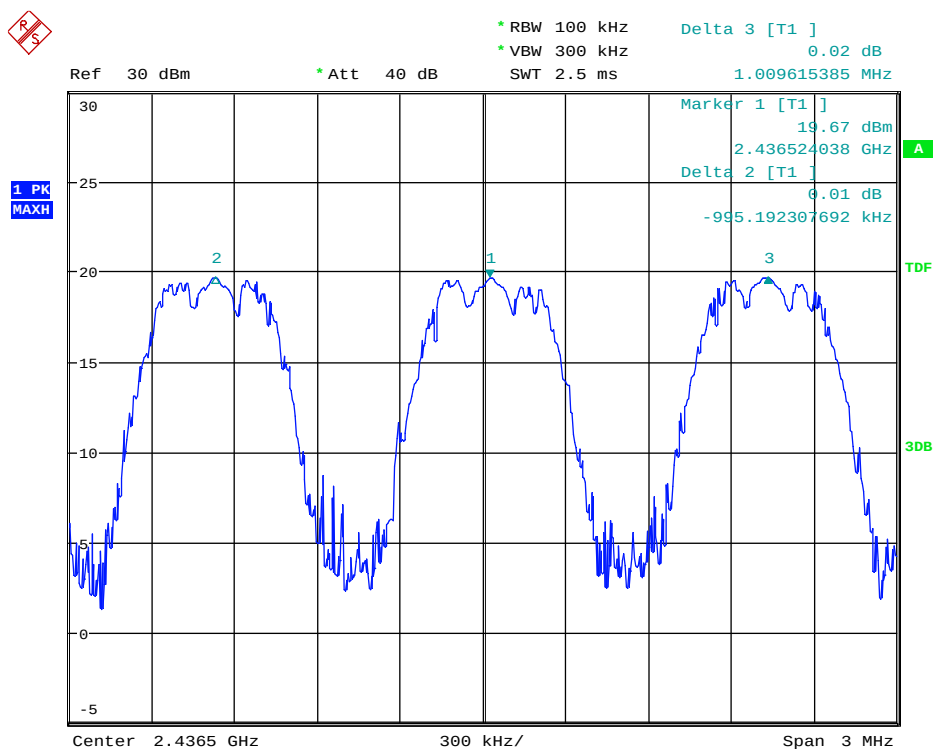


Plot 45: CFS-RCM24G-MSK-250Kbps -Ch67-Ch68-Ch69-PWR+12 dBm

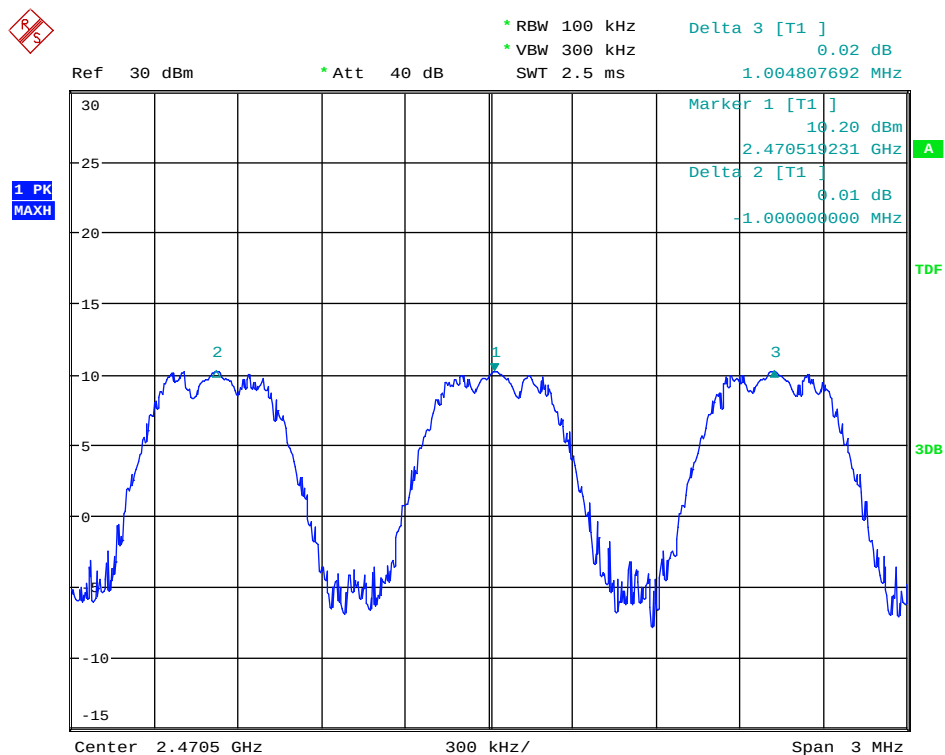
1.4.4. MSK-Data Rate 500Kbps



Plot 46: CFS-RCM24G-MSK-500Kbps-Ch0-Ch1-Ch2-PWR+12dBm



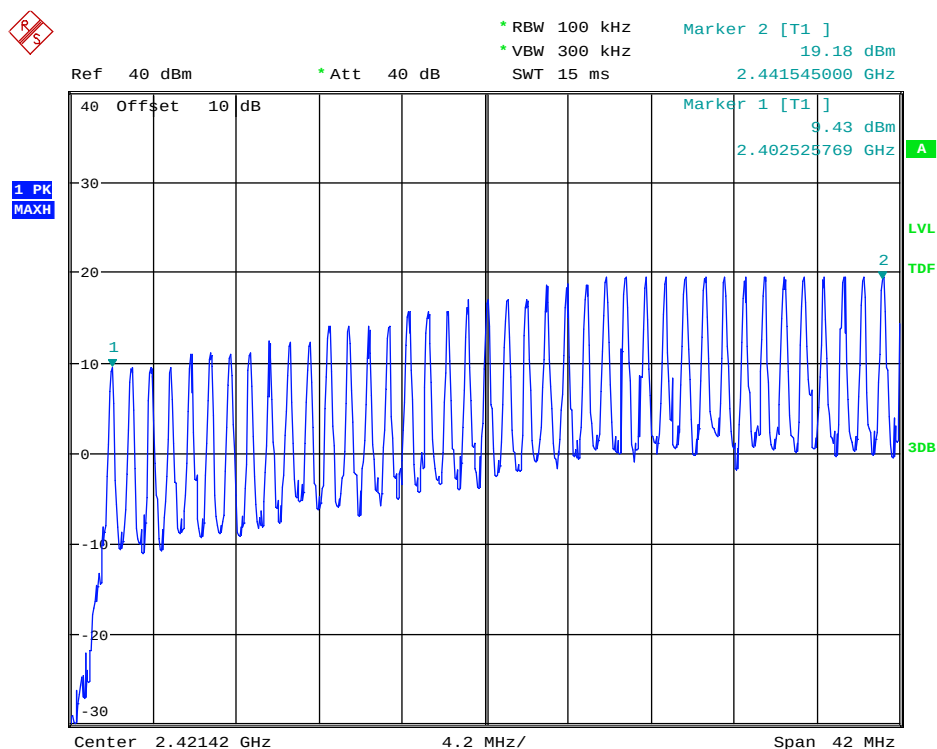
Plot 47: CFS-RCM24G-MSK-500Kbps-Ch33-Ch34-Ch35-PWR+21dBm



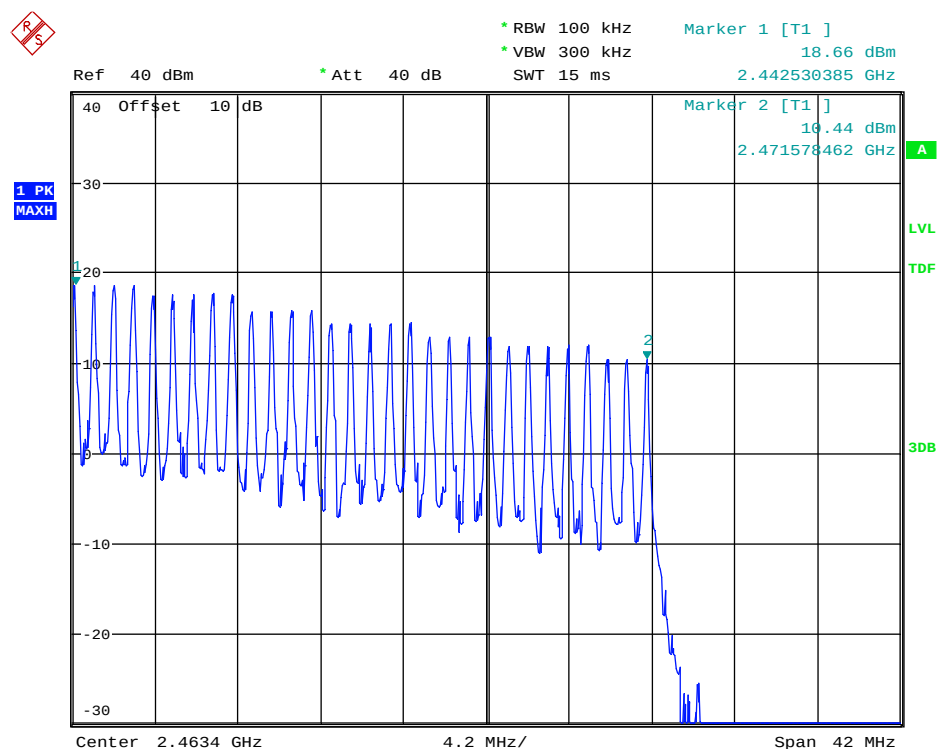
Plot 48: CFS-RCM24G-MSK-500Kbps-Ch67-Ch68-Ch69-PWR+12 dBm

1.5. Number of Hopping Frequencies (N-Hopping)

1.5.1. MSK-Data Rate 50Kbps

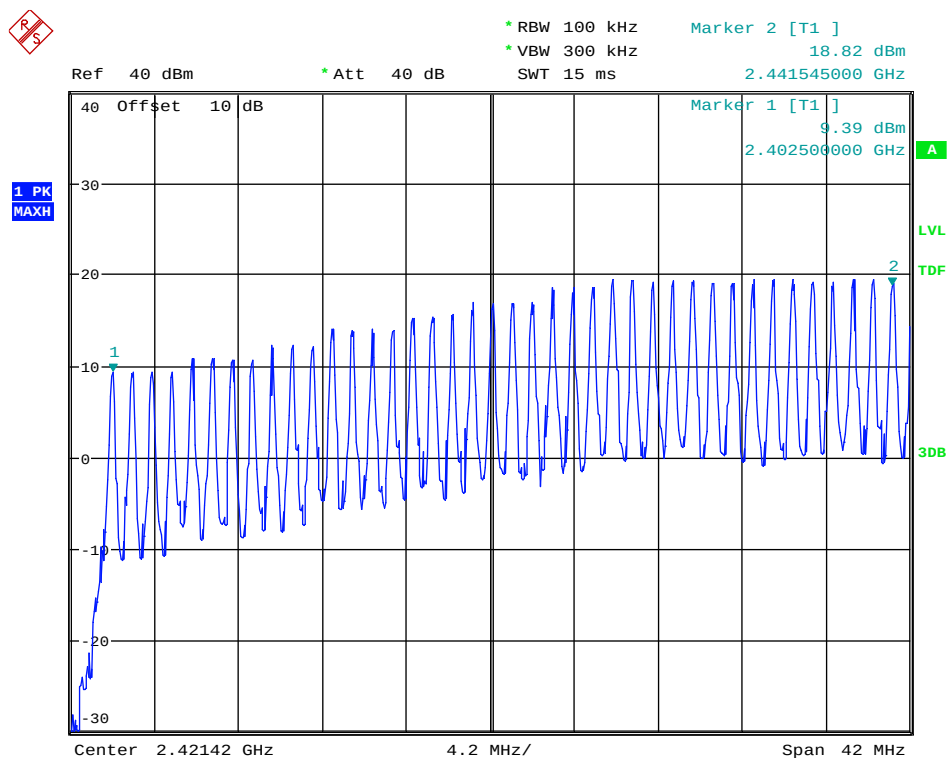


Plot 49: N-Hopping-RCM24G-MSK-50Kbps-2.4 GHz - Lower Spectrum

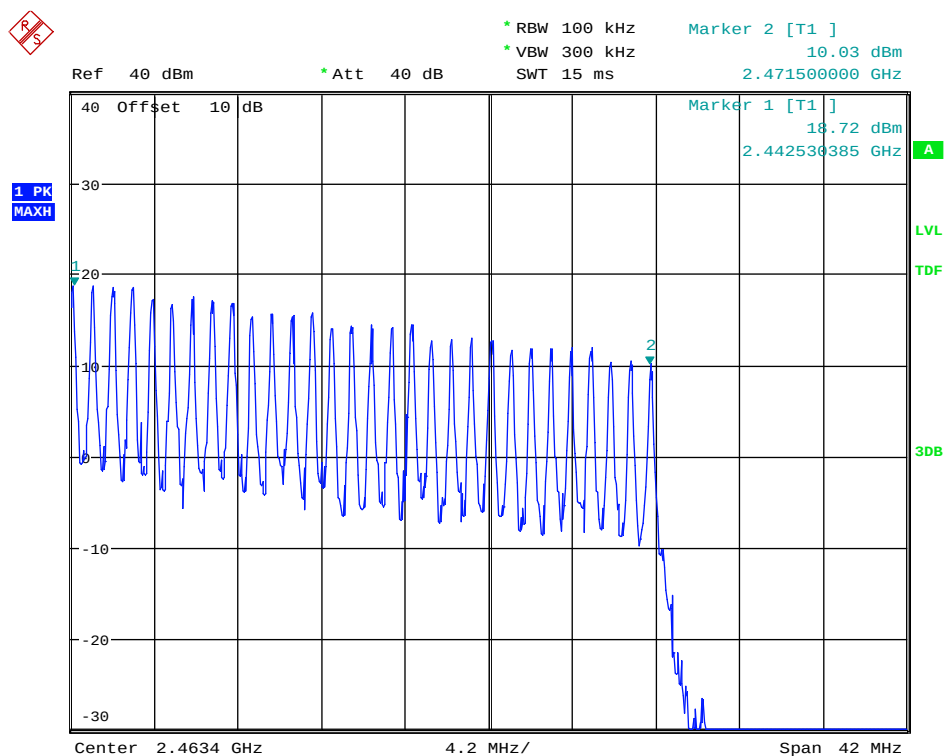


Plot 50: N-Hopping-RCM24G-MSK-50Kbps-2.4 GHz -Upper Spectrum

1.5.2. MSK-Data Rate 100Kbps

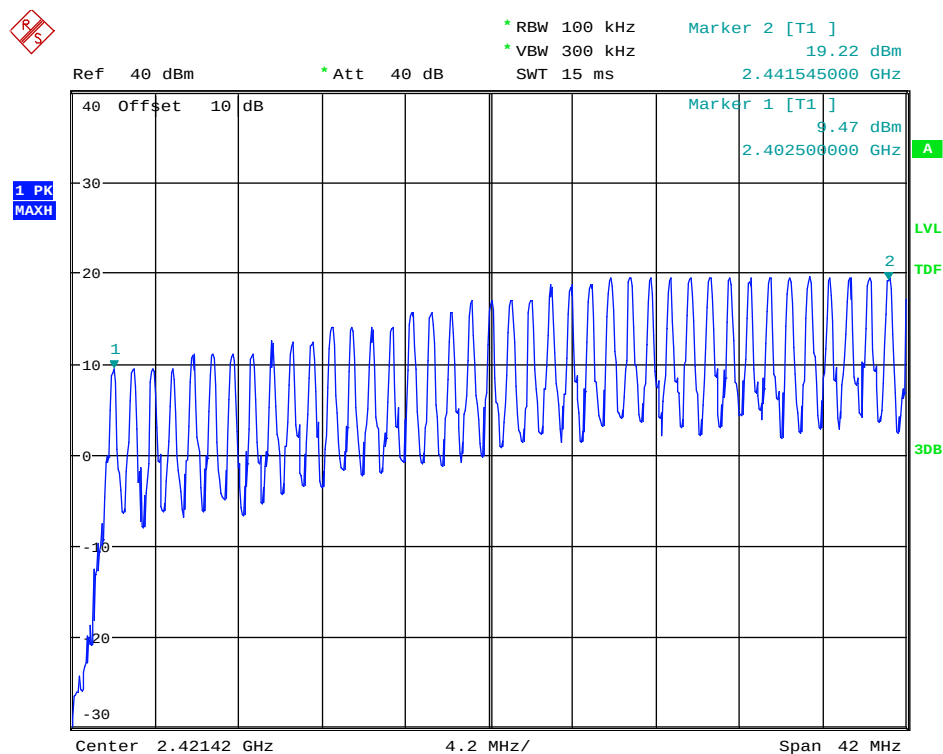


Plot 51: N-Hopping-RCM24G-MSK-100Kbps-2.4 GHz - Lower Spectrum

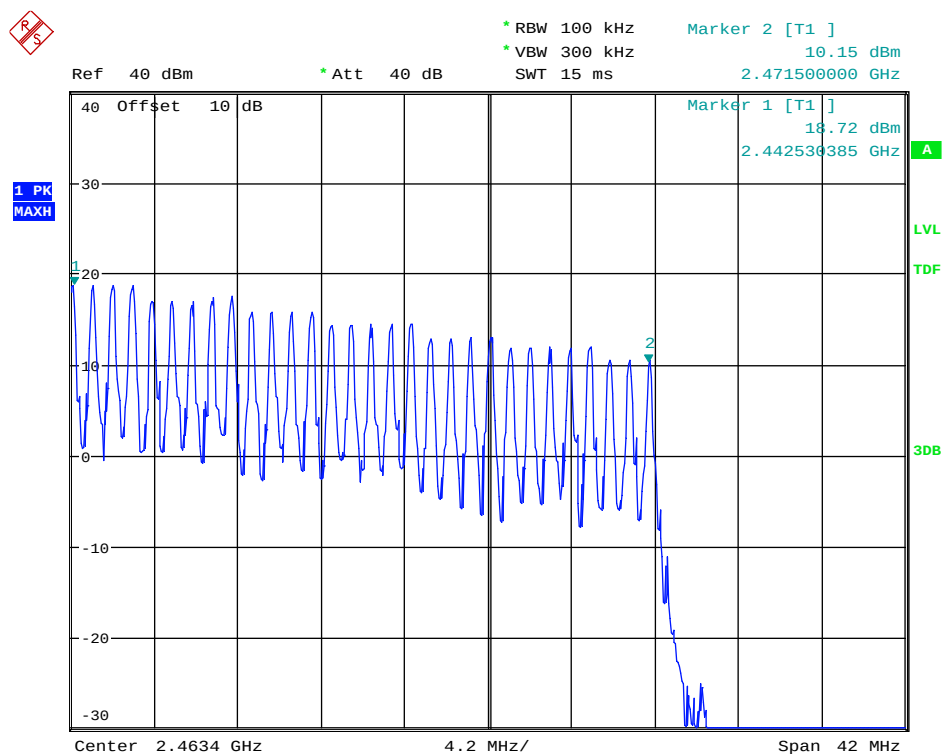


Plot 52: N-Hopping-RCM24G-MSK-100Kbps-2.4 GHz - Upper Spectrum

1.5.3. MSK-Data Rate 250Kbps

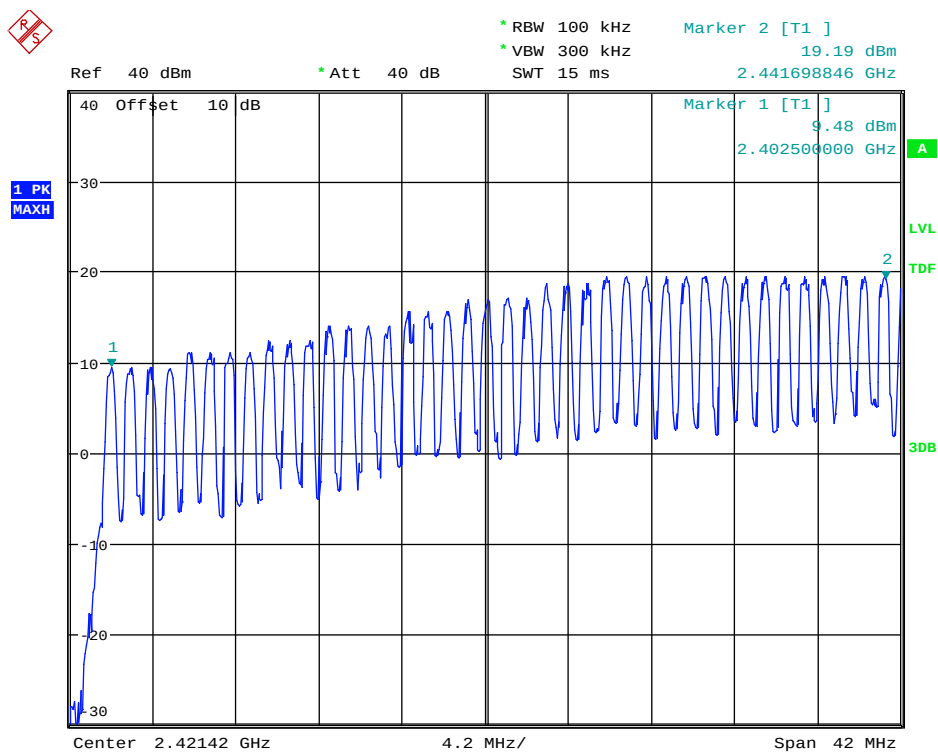


Plot 53: N-Hopping-RCM24G-MSK-250Kbps-2.4 GHz - Lower Spectrum

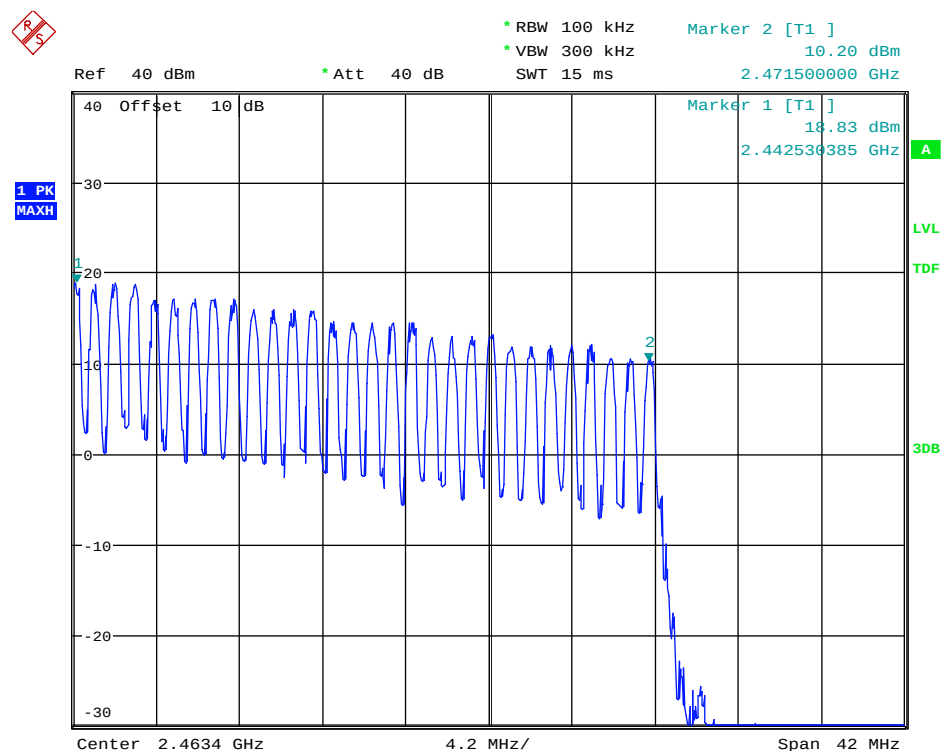


Plot 54: N-Hopping-RCM24G-MSK-250Kbps-2.4 GHz -Upper Spectrum

1.5.4. MSK-Data Rate 500Kbps



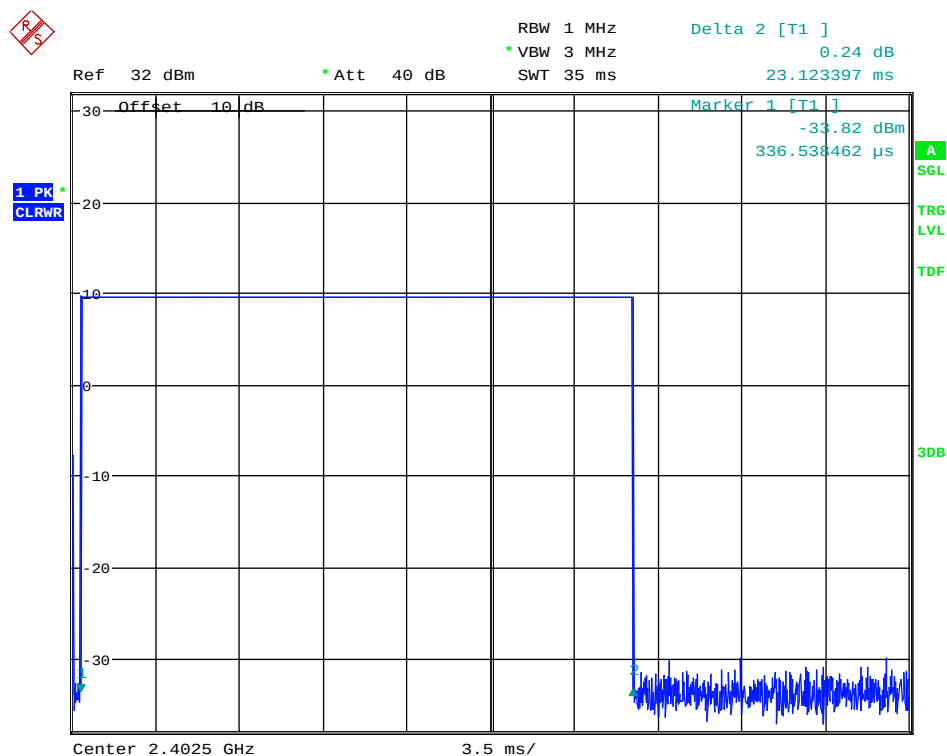
Plot 55: N-Hopping-RCM24G-MSK-500Kbps-2.4 GHz - Lower Spectrum



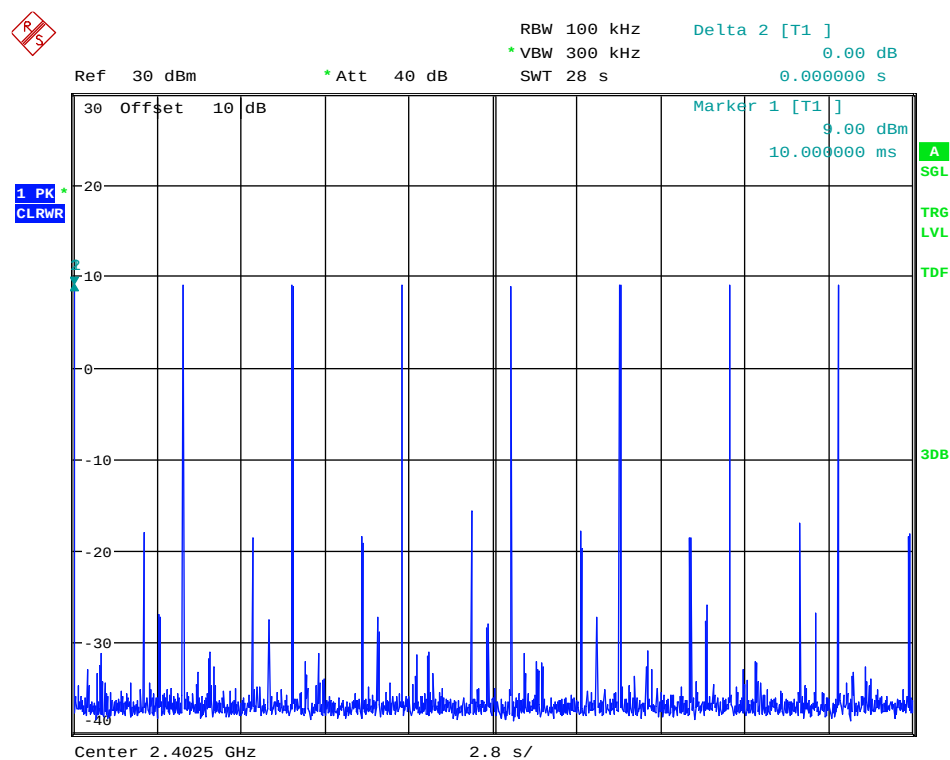
Plot 56: N-Hopping-RCM24G-MSK-500Kbps-2.4 GHz - Upper Spectrum

1.6. Average Occupancy Time (Occ.Time)

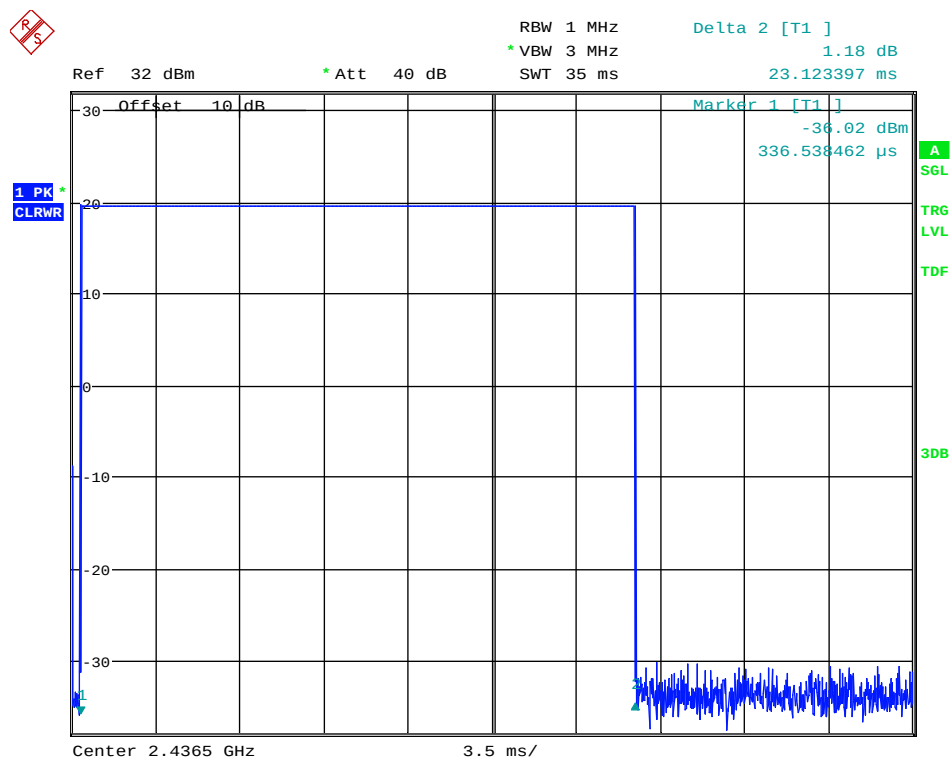
1.6.1. MSK-Data Rate 50Kbps



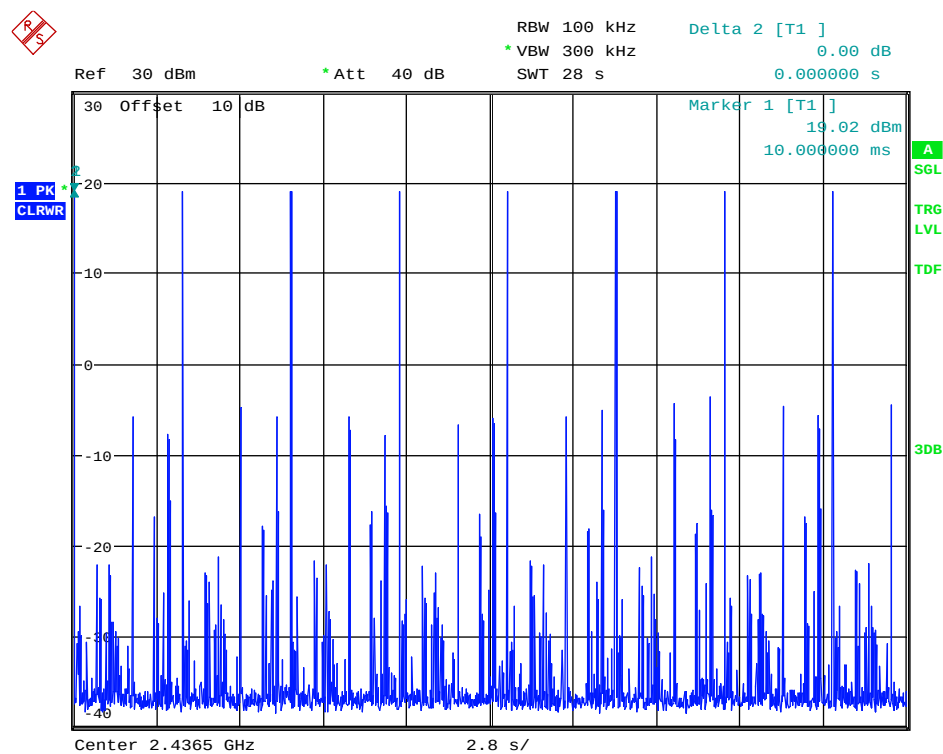
Plot 57: Occ.Time-Single Transmission-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm



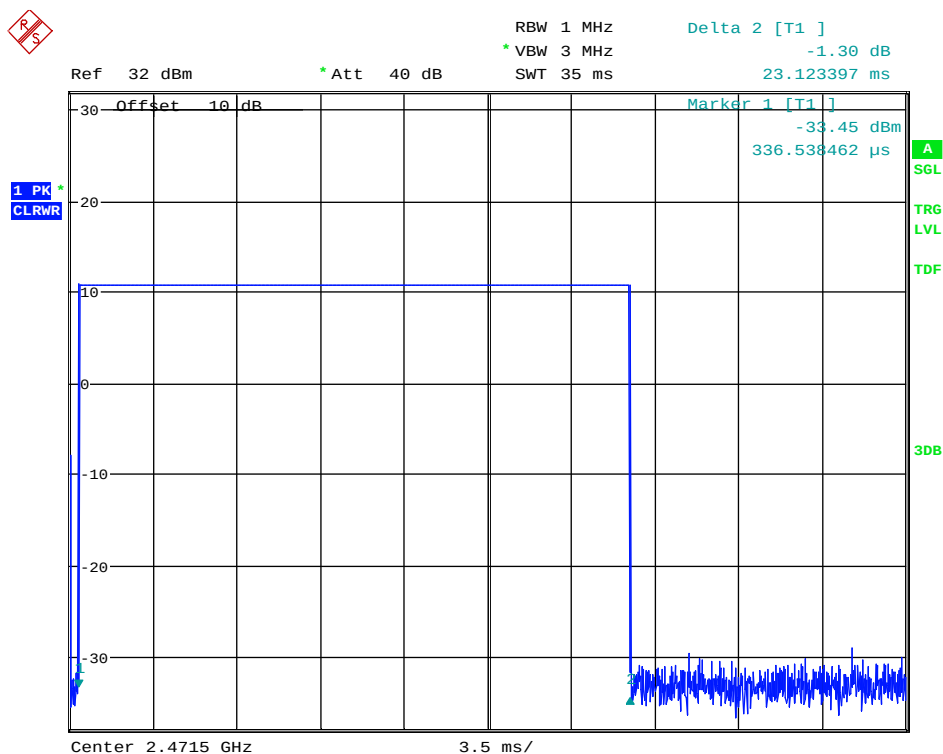
Plot 58: Transmissions in 28 Sec-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm



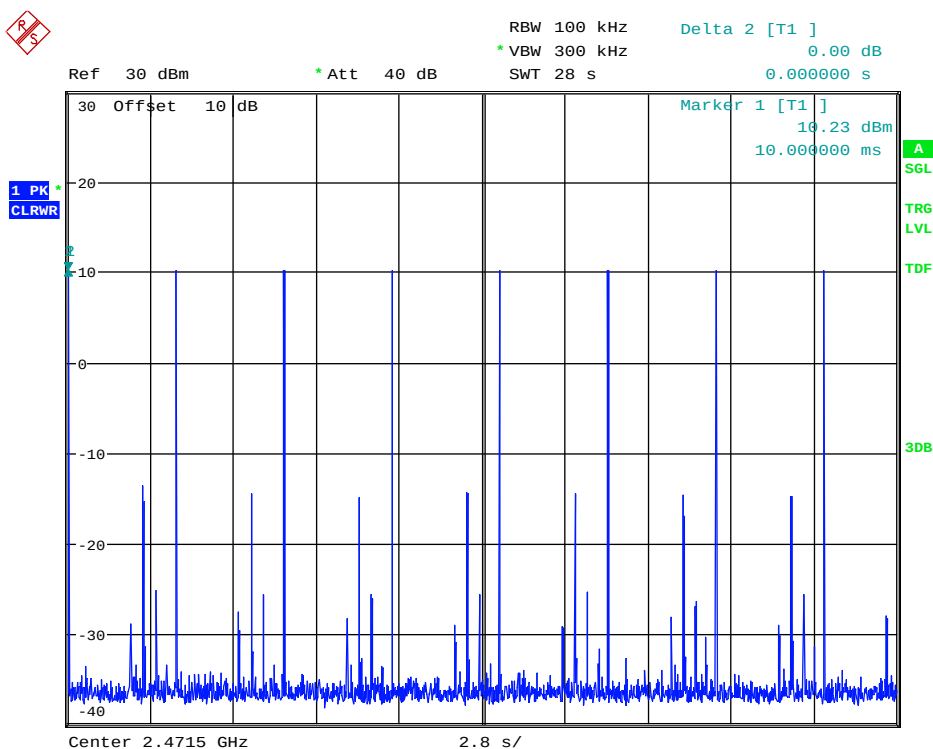
Plot 59: Occ.Time-Single Transmission-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 60: Transmissions in 28 Sec-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm

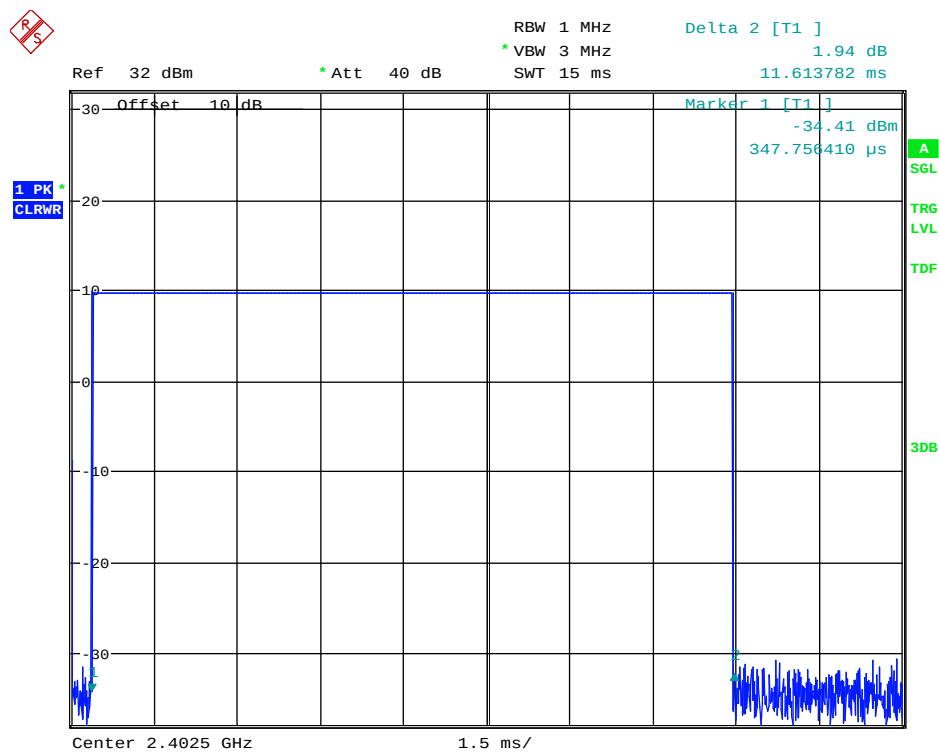


Plot 61: Occ.Time-Single Transmission-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm

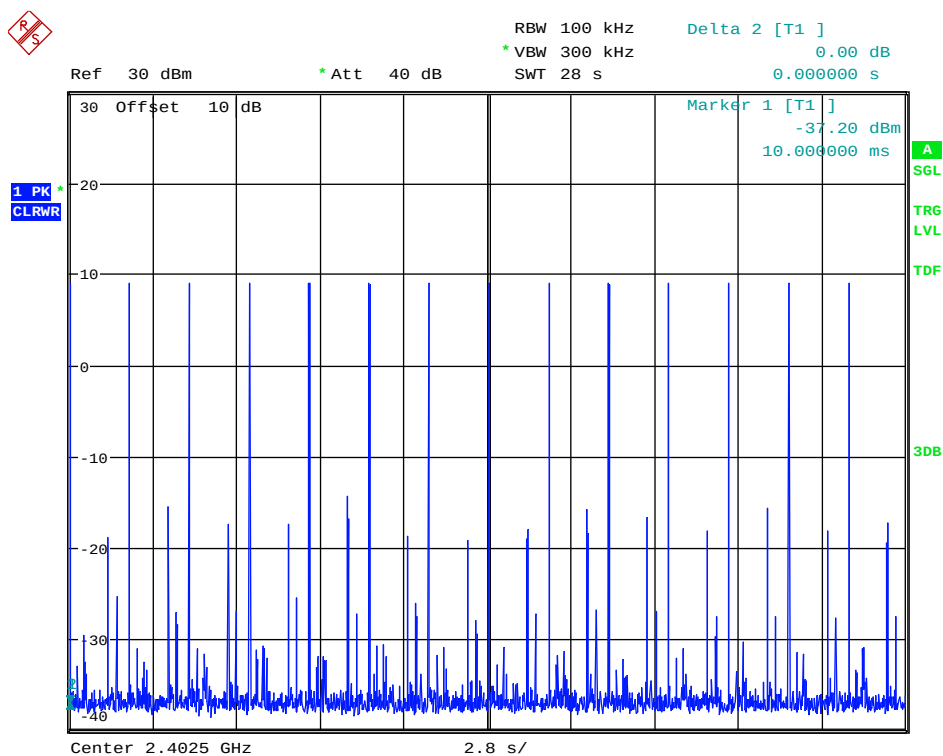


Plot 62: Transmissions in 28 Sec-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm

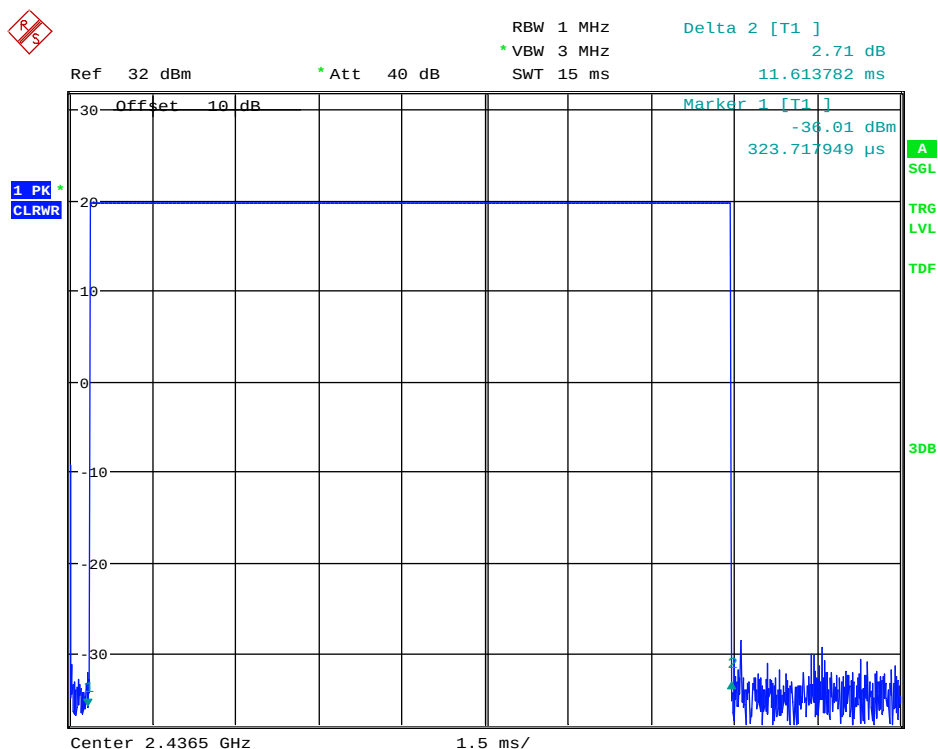
1.6.2. MSK-Data Rate 100Kbps



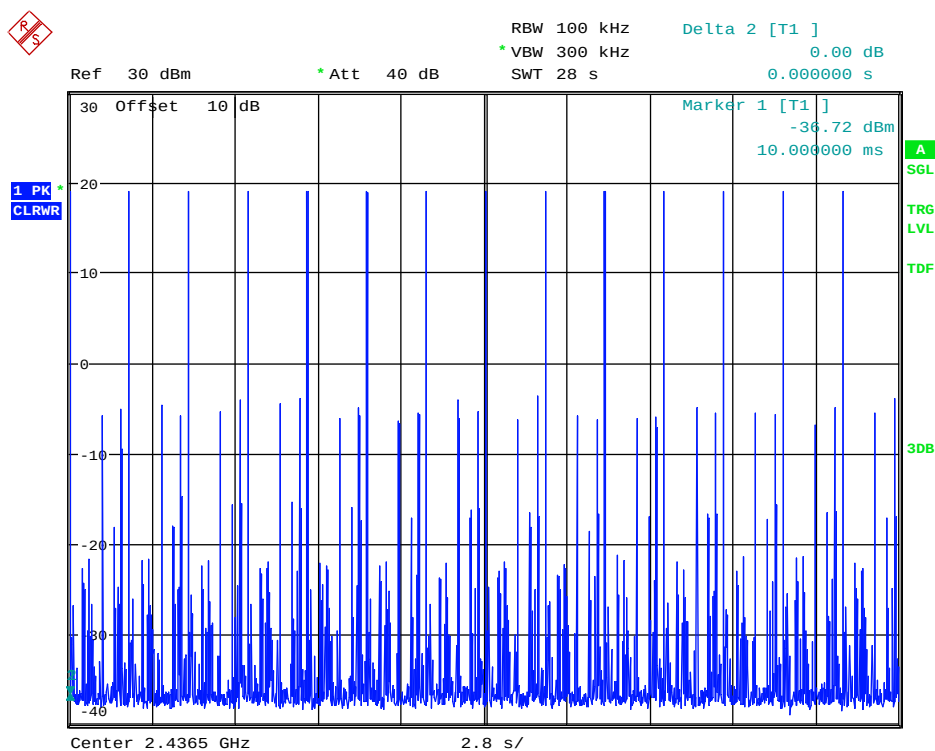
Plot 63: Occ.Time-Single Transmission-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm



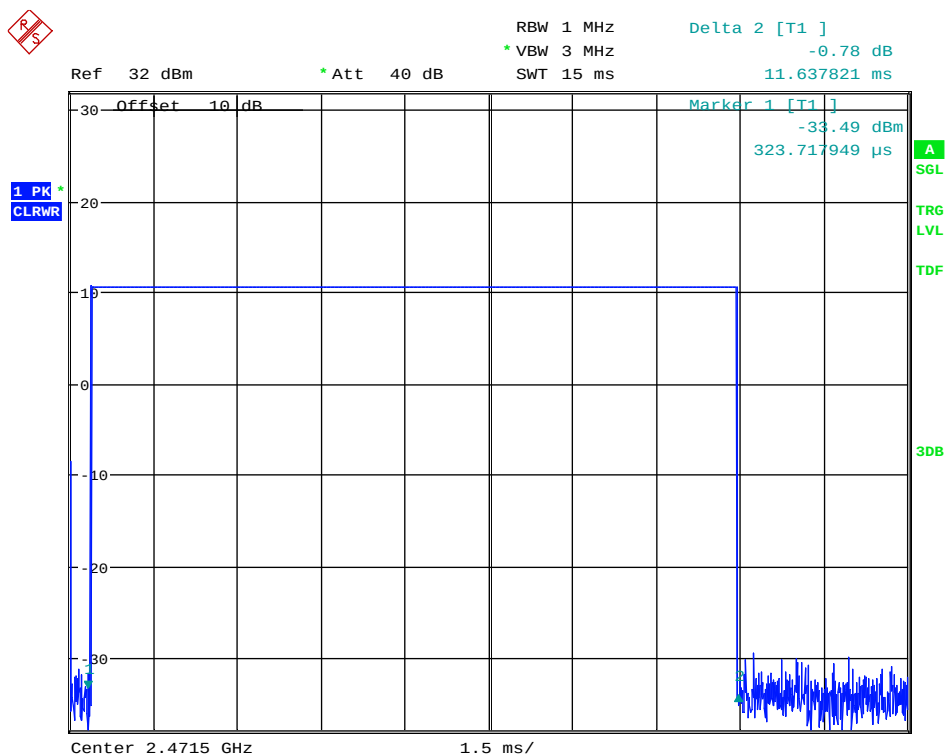
Plot 64: Transmissions in 28 Sec-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm



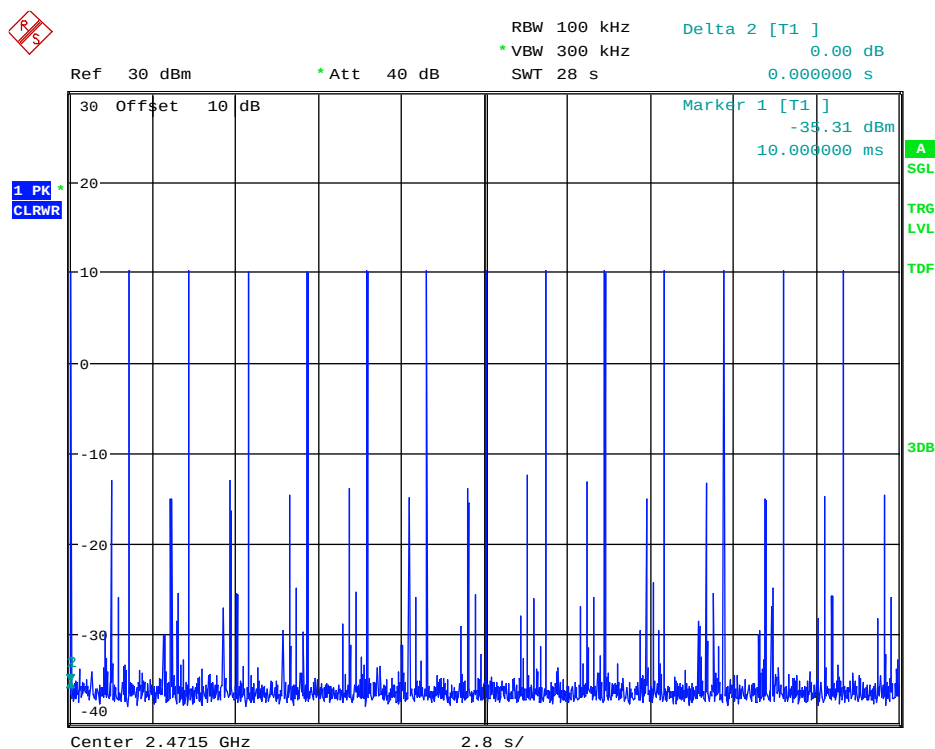
Plot 65: Occ.Time-Single Transmission-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 66: Transmissions in 28 Sec-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm

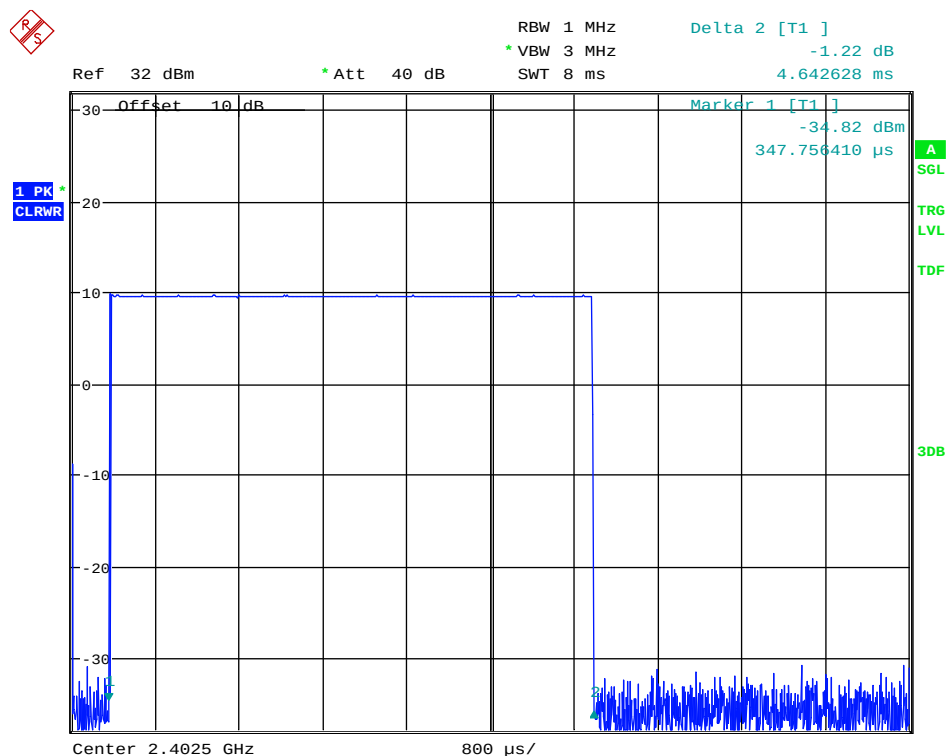


Plot 67: Occ.Time-Single Transmission-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm

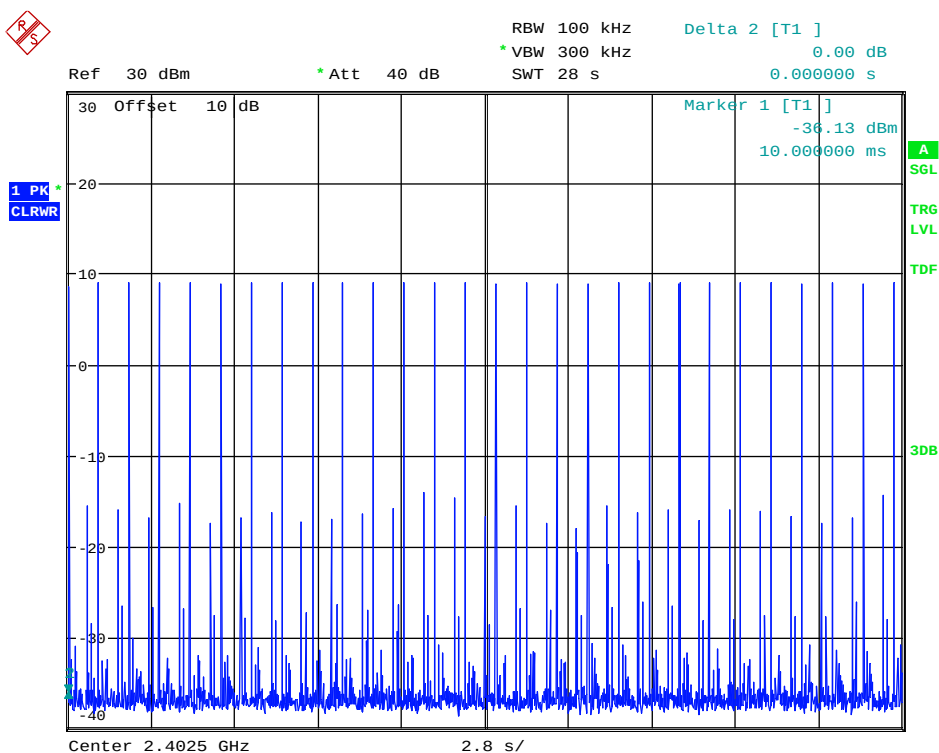


Plot 68: Transmissions in 28 Sec-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm

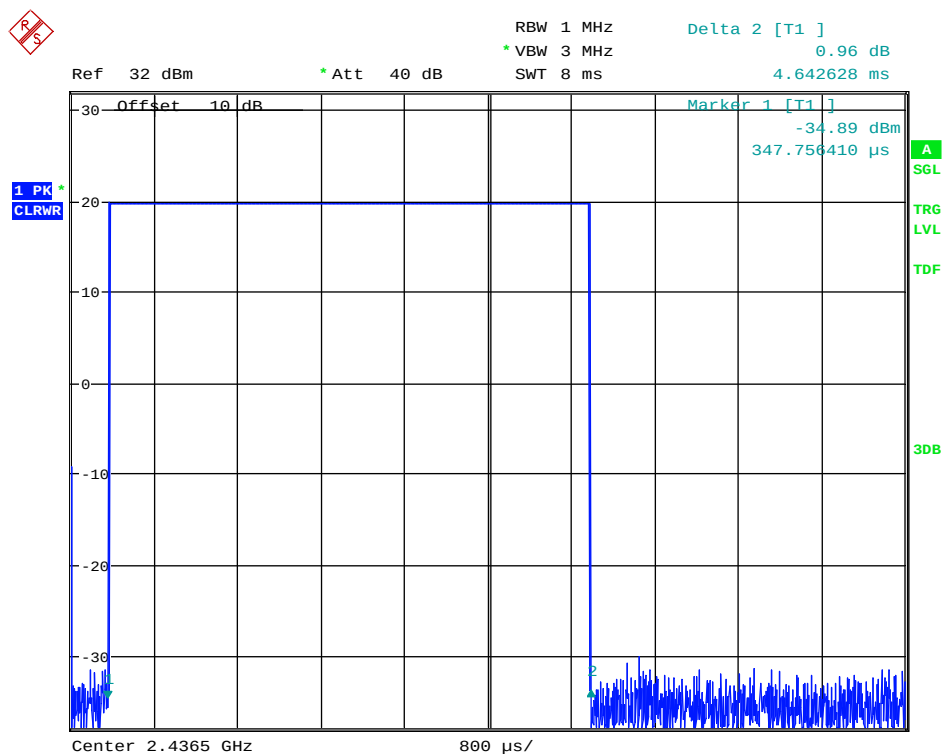
1.6.3. MSK-Data Rate 250Kbps



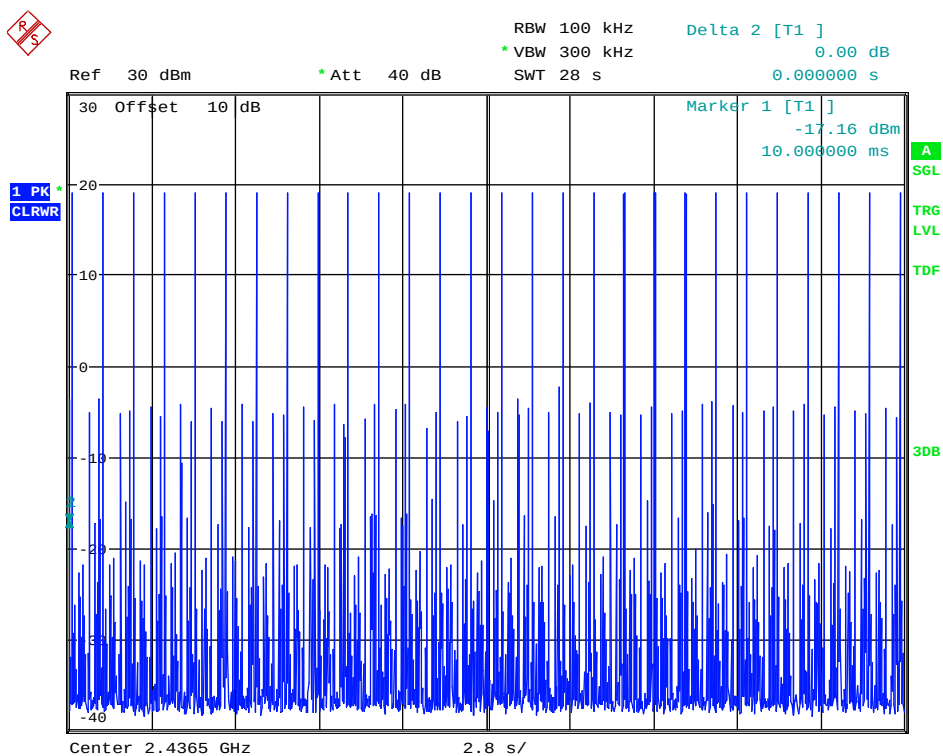
Plot 69: Occ.Time-Single Transmission-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm



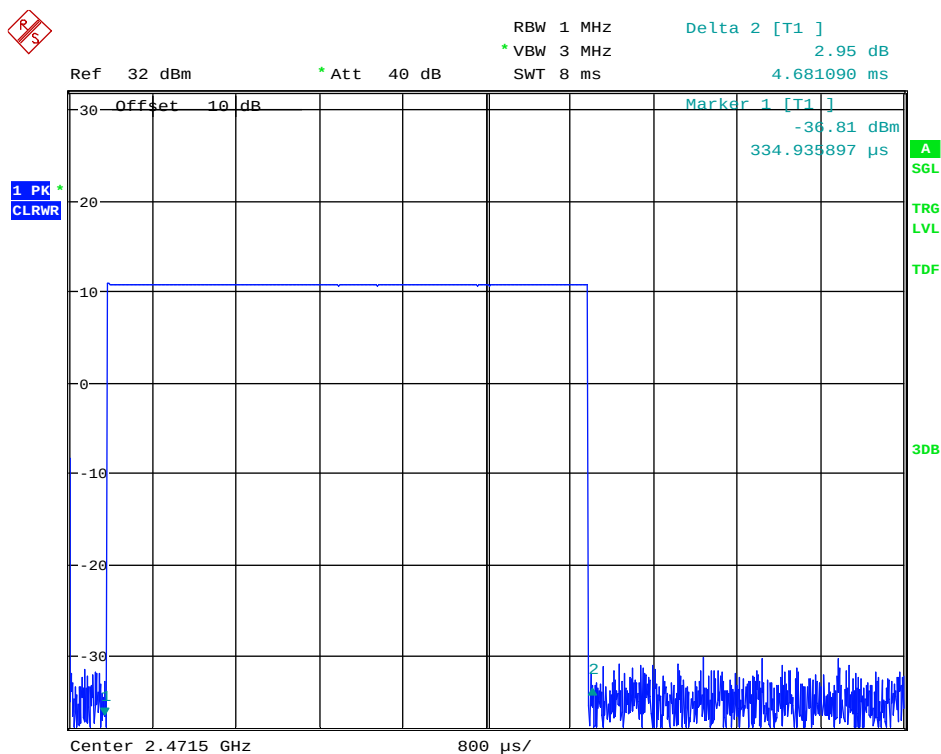
Plot 70: Transmissions in 28 Sec-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm



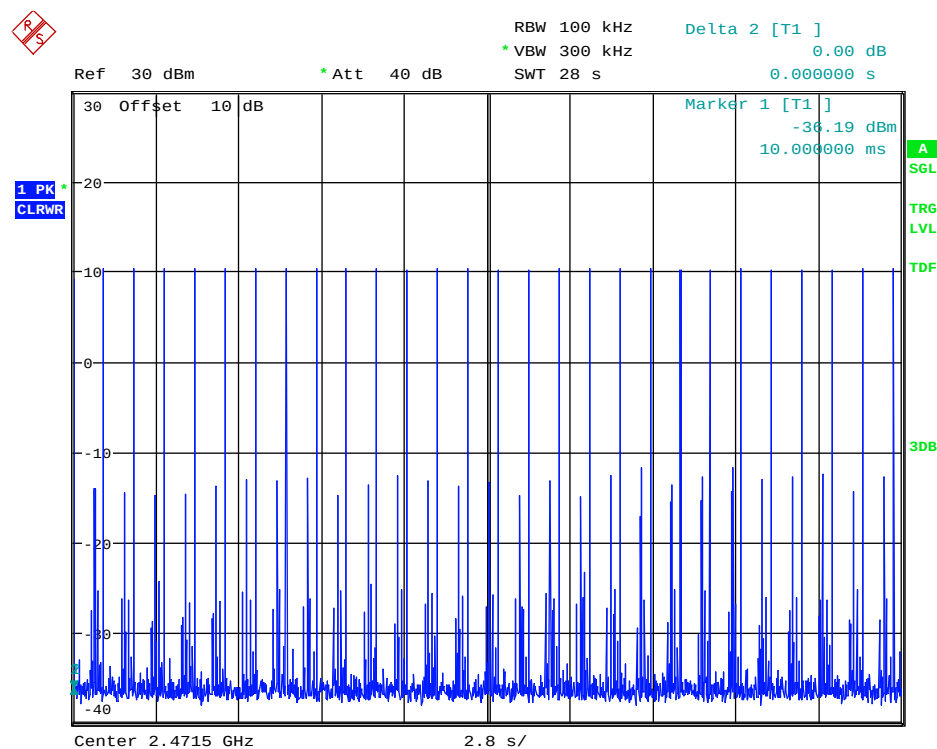
Plot 71: Occ.Time-Single Transmission-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 72: Transmissions in 28 Sec-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm

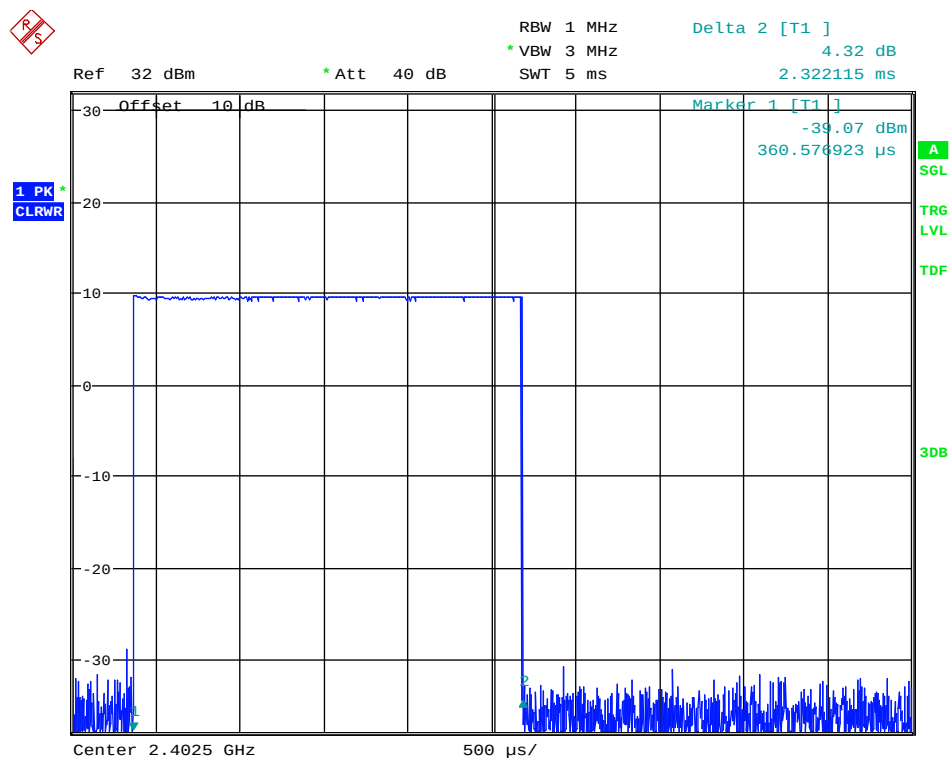


Plot 73: Occ.Time-Single Transmission-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm

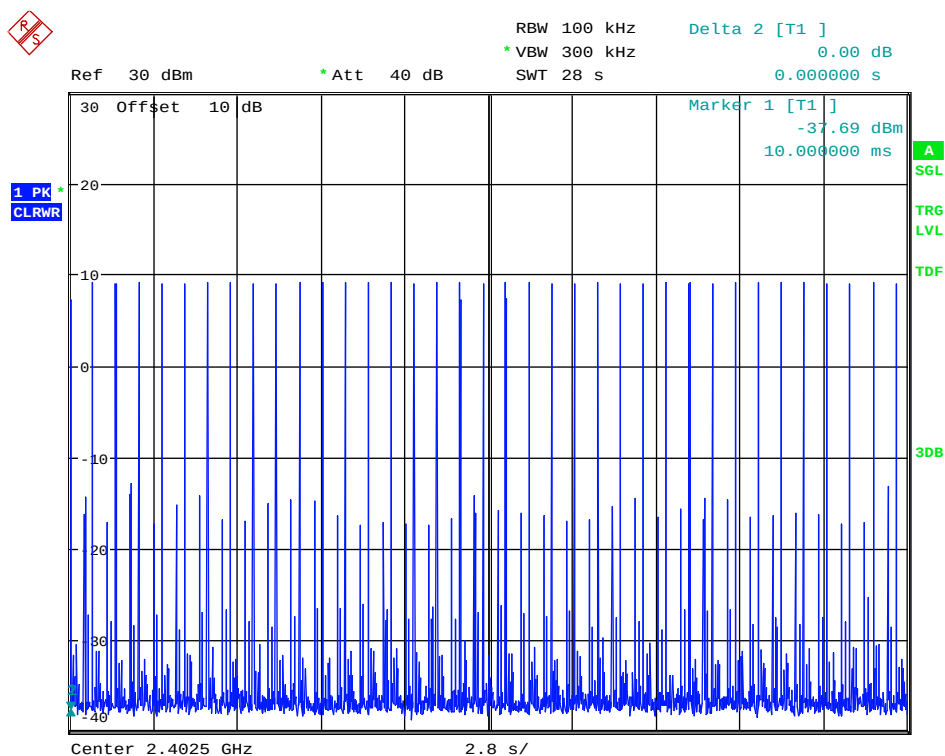


Plot 74: Transmissions in 28 Sec-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm

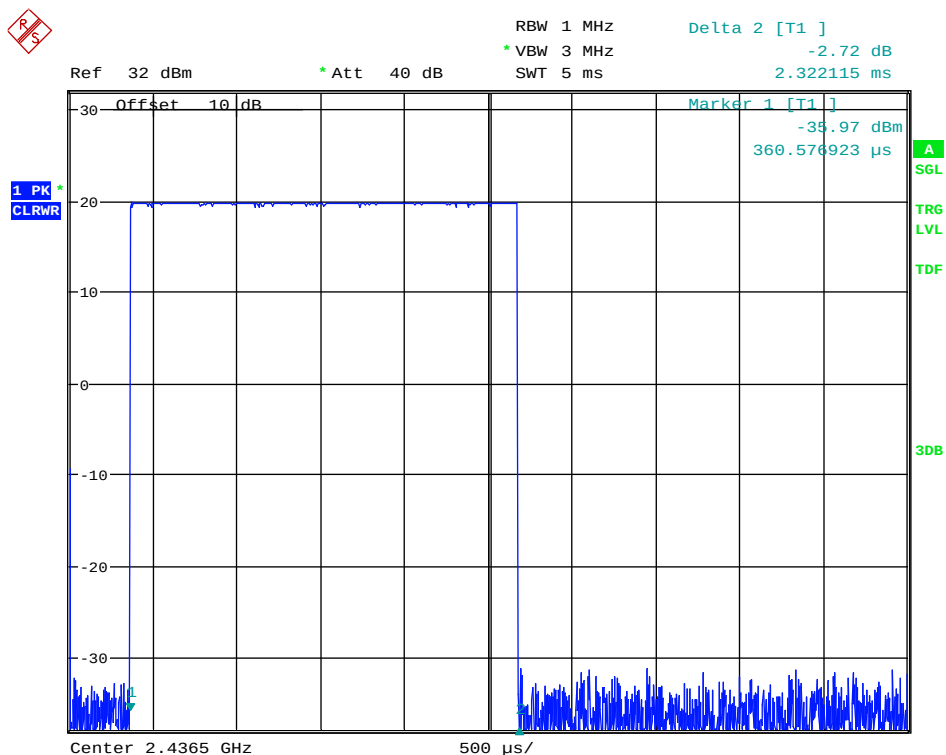
1.6.4. MSK-Data Rate 500Kbps



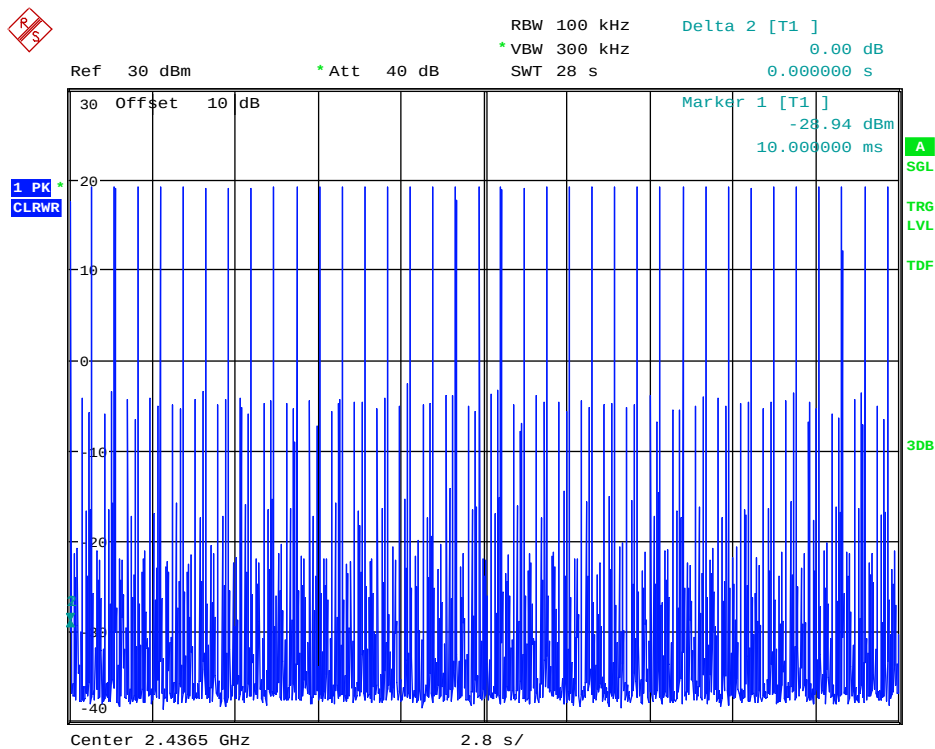
Plot 75: Occ.Time-Single Transmission-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



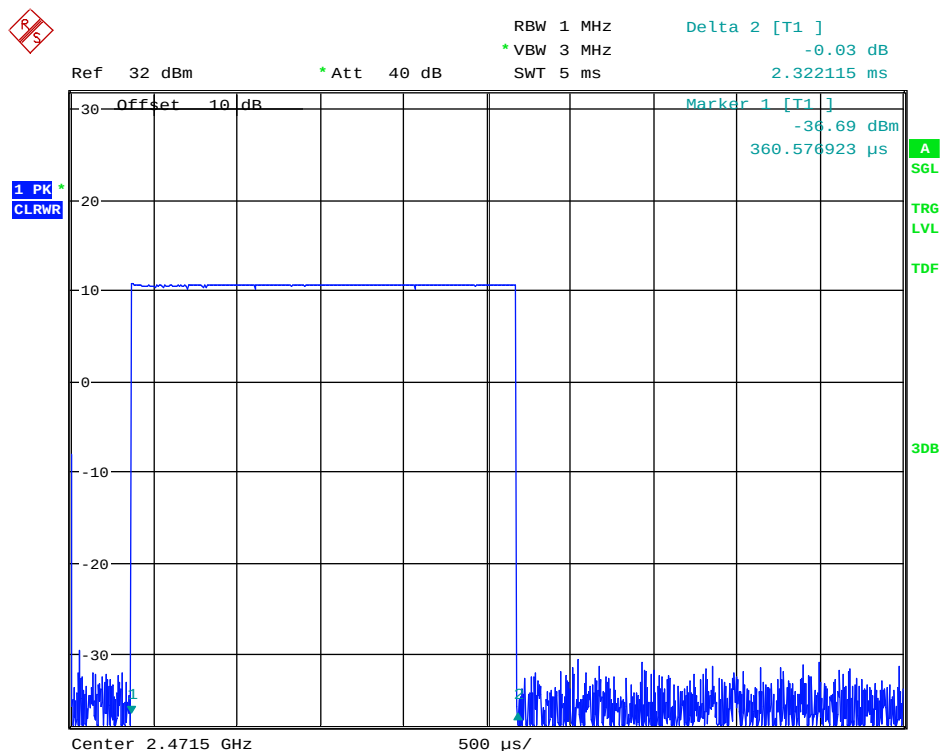
Plot 76: Transmissions in 28 Sec-RCM24G-MSK-500Kbps-Ch0(2402.5 MHz)-PWR+12dBm



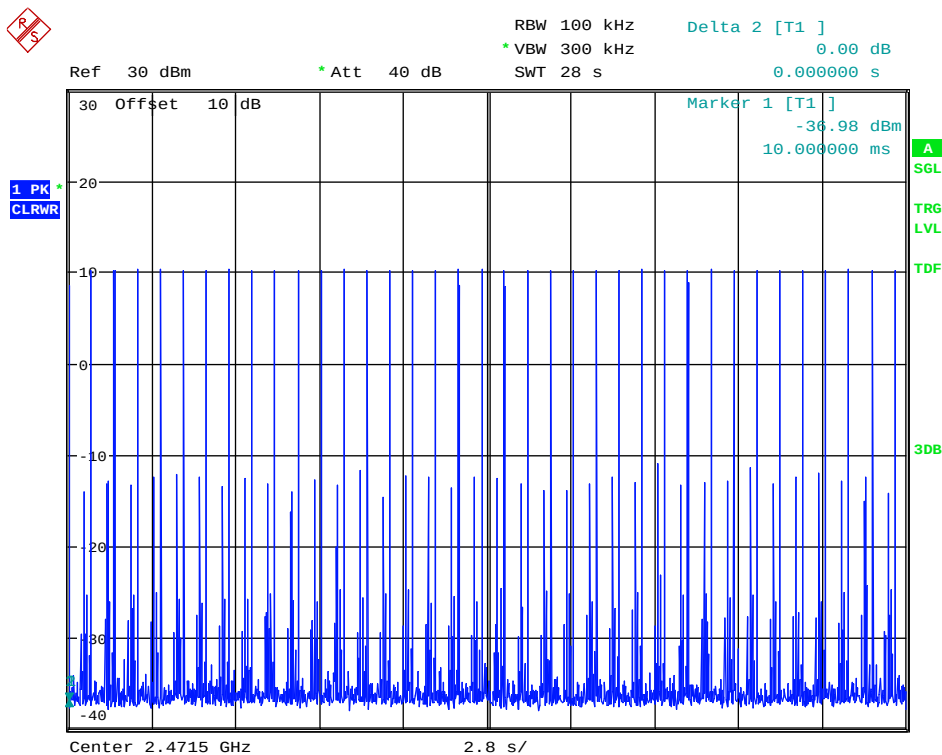
Plot 77: Occ.Time-Single Transmission-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm



Plot 78: Transmissions in 28 Sec-RCM24G-MSK-500Kbps-Ch34(2436.5 MHz)-PWR+21dBm



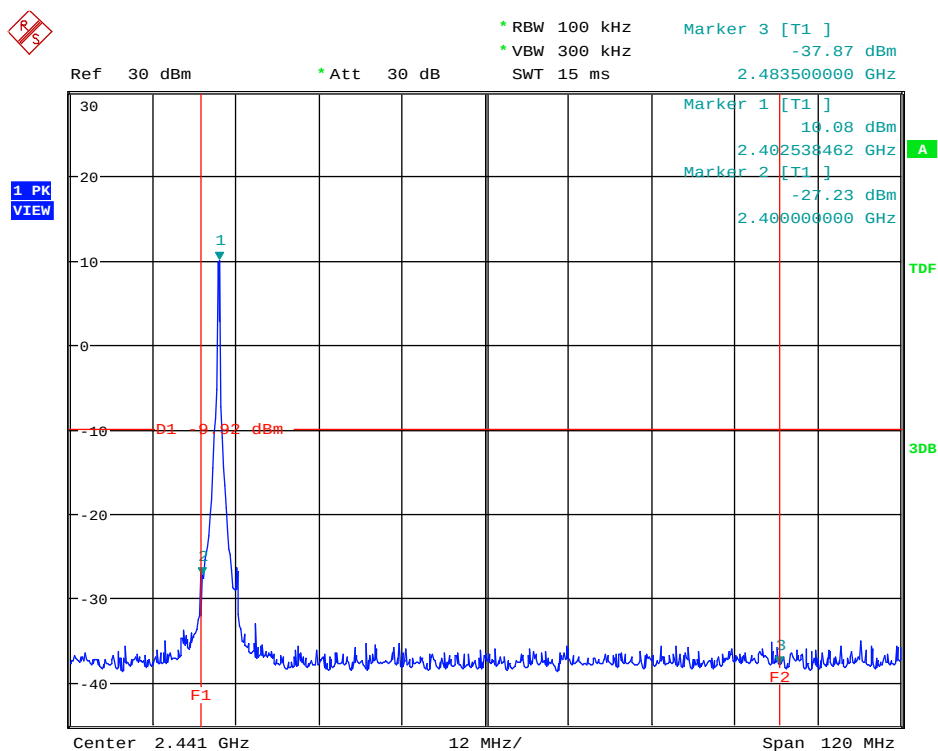
Plot 79: Occ.Time-Single Transmission-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm



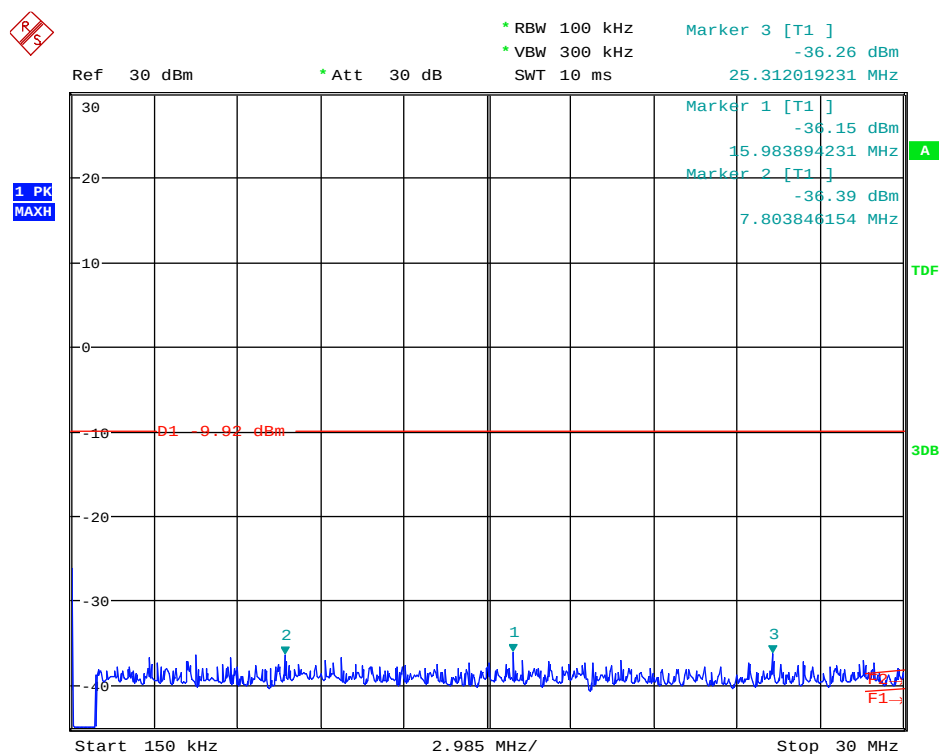
Plot 80: Transmissions in 28 Sec-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm

1.7. 20dBc TX Conducted Spurious Emissions

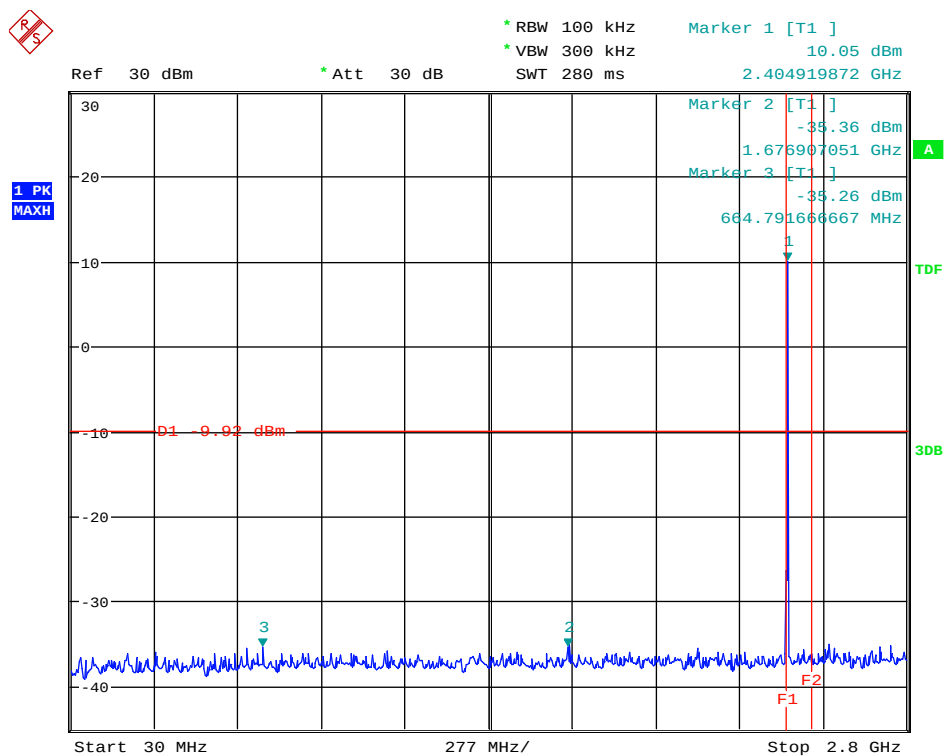
1.7.1. MSK-Data Rate 50Kbps



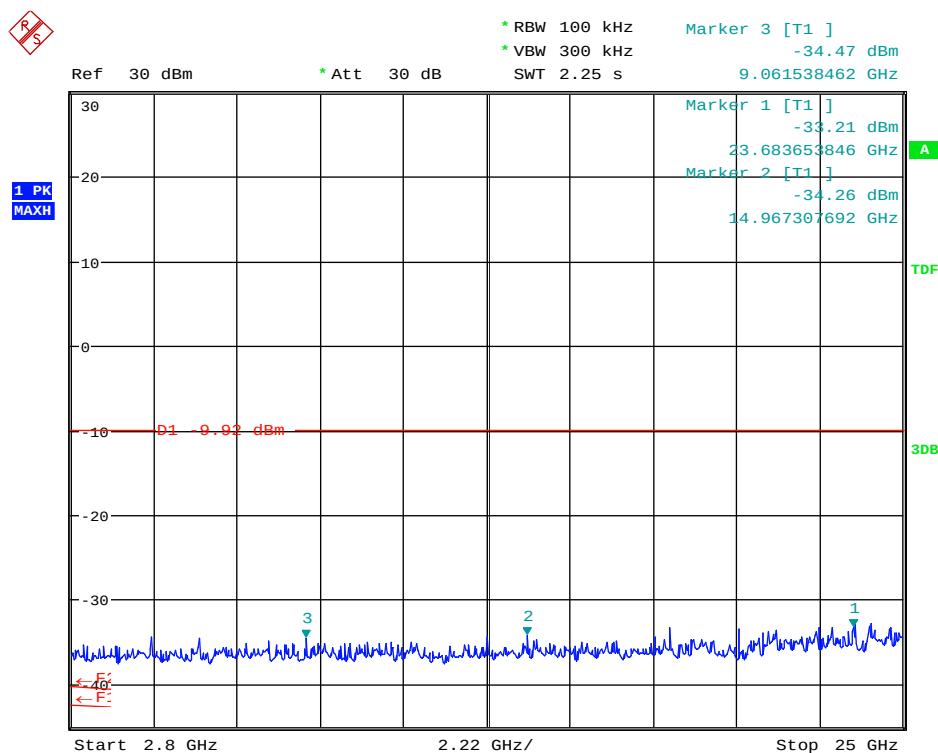
Plot 81: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



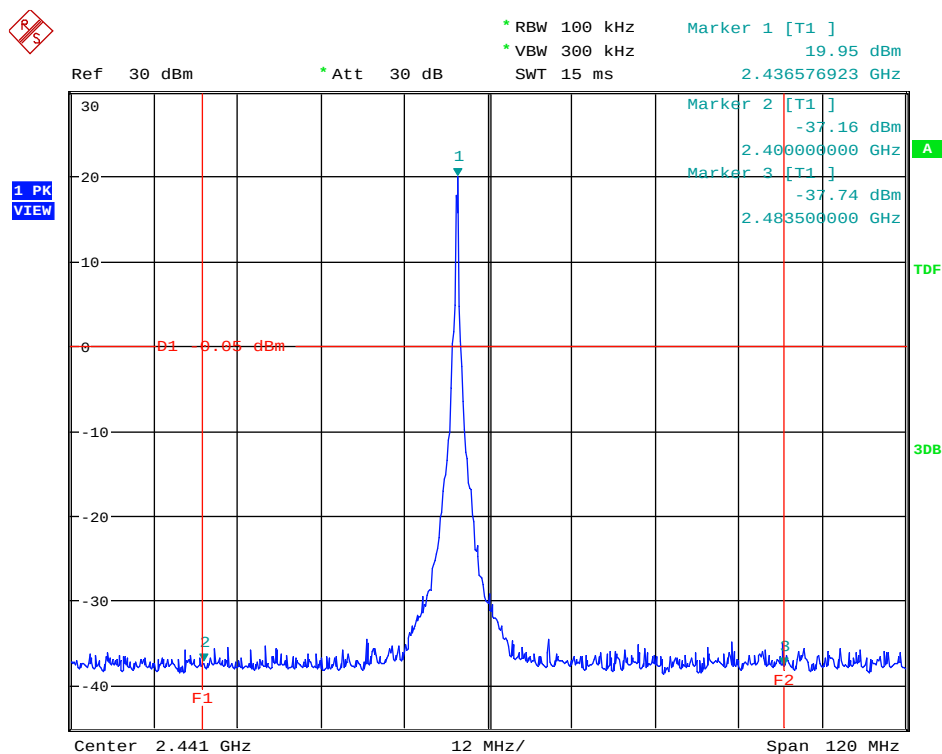
Plot 82: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



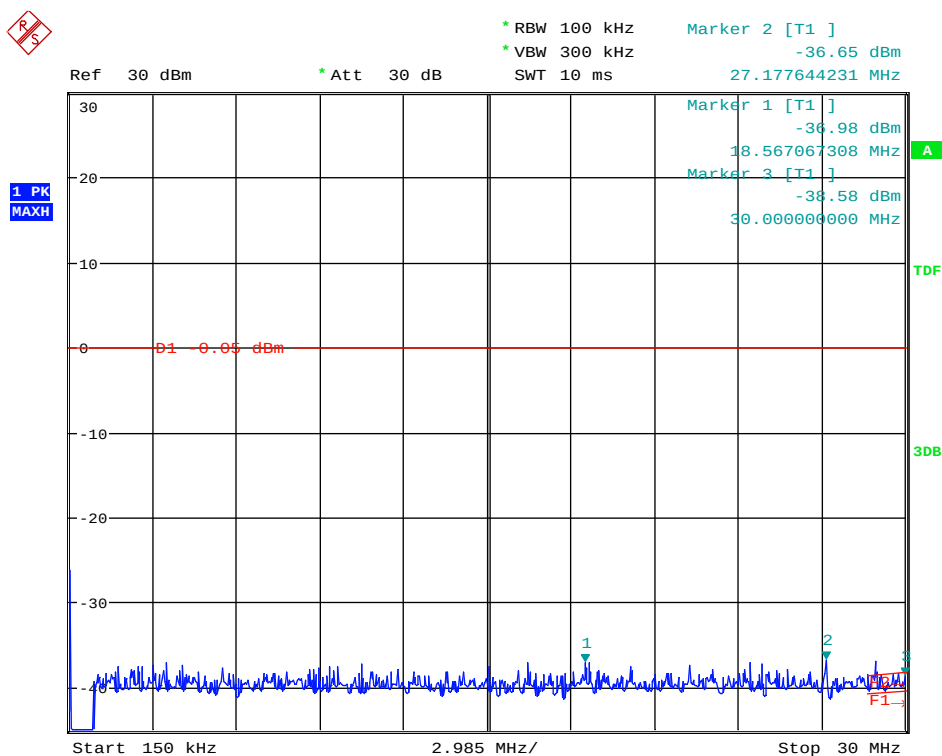
Plot 83: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-30MHz-2.8GHz



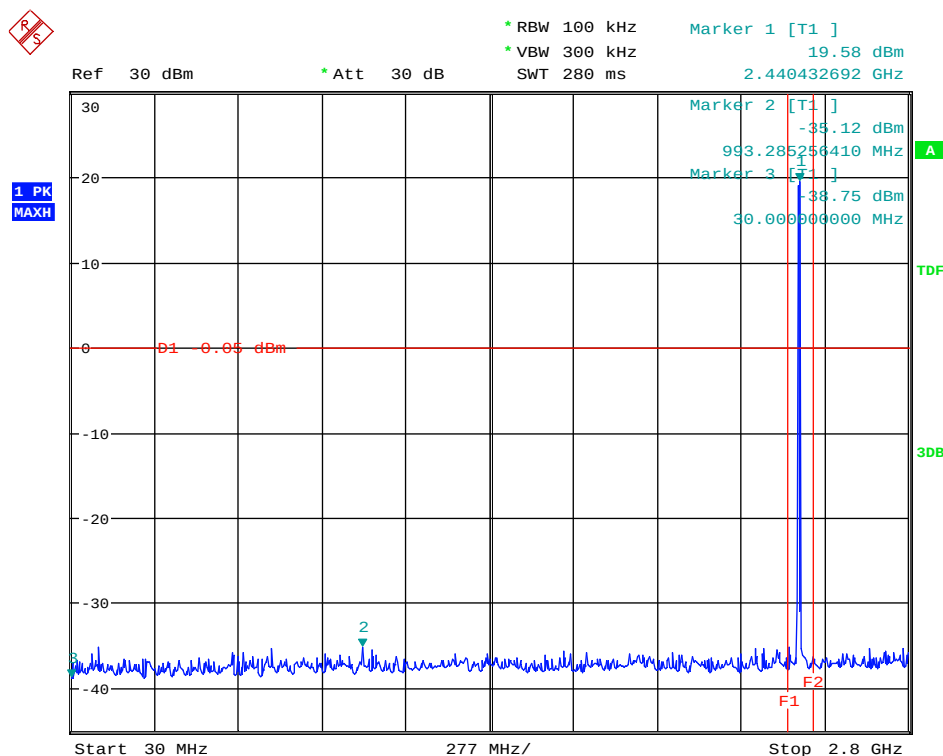
Plot 84: 20dBc-RCM24G-MSK-50Kbps-Ch0(2402.5 MHz)-PWR+12dBm-2.8GHz-25GHz



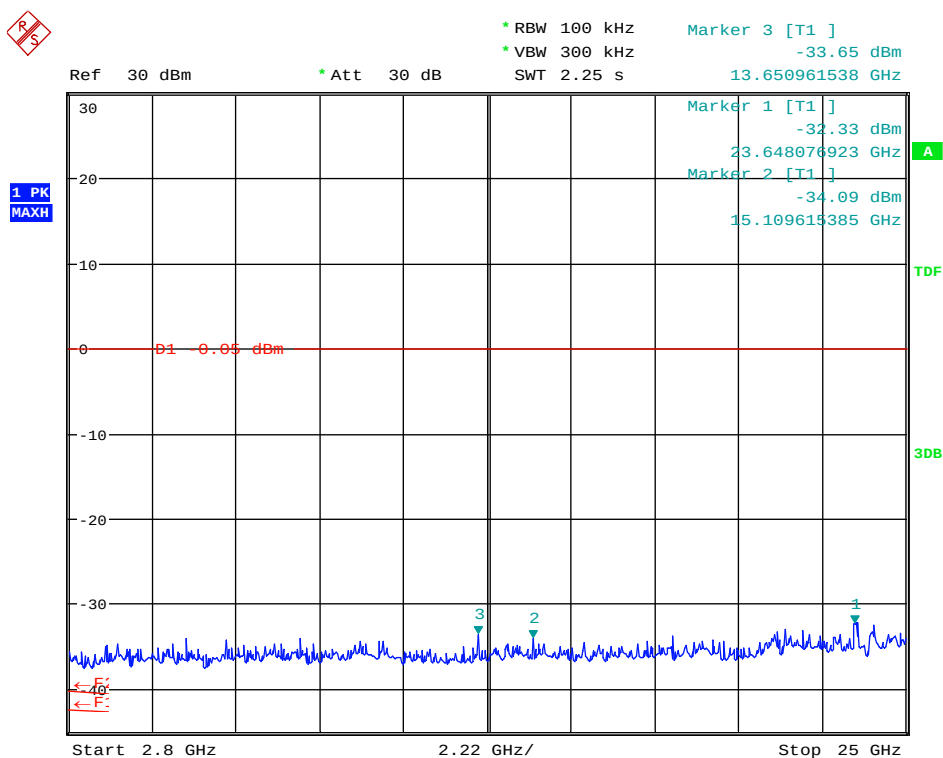
Plot 85: 20dBc-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm-Carrier



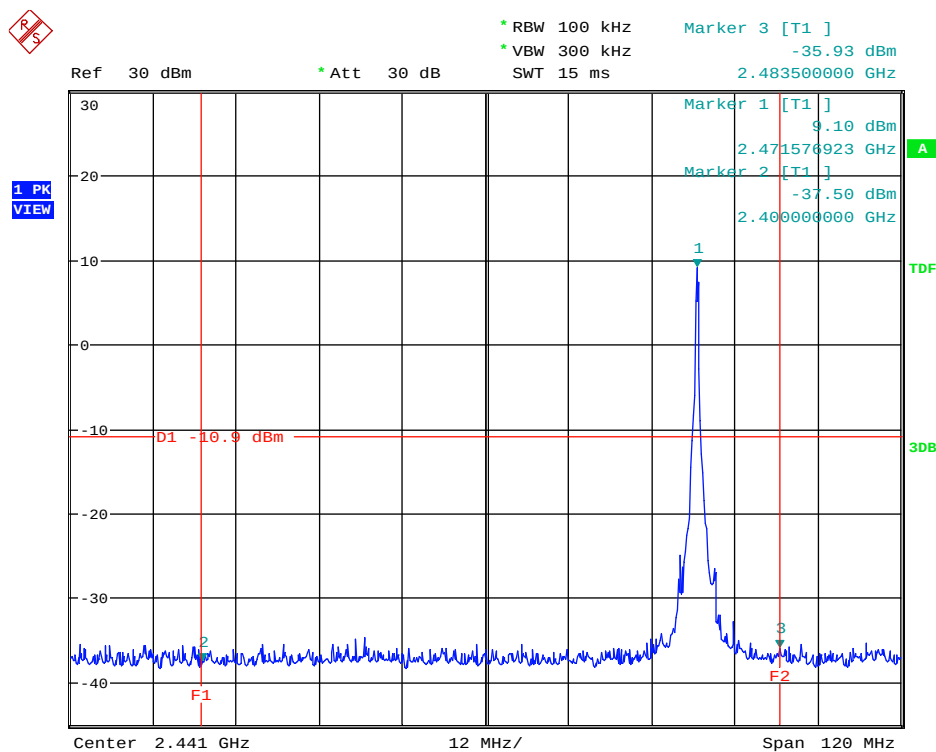
Plot 86: 20dBc-RCM24G-MSK-50Kbps- Ch34(2436.5 MHz)-PWR+21dBm-0.15MHz-30MHz



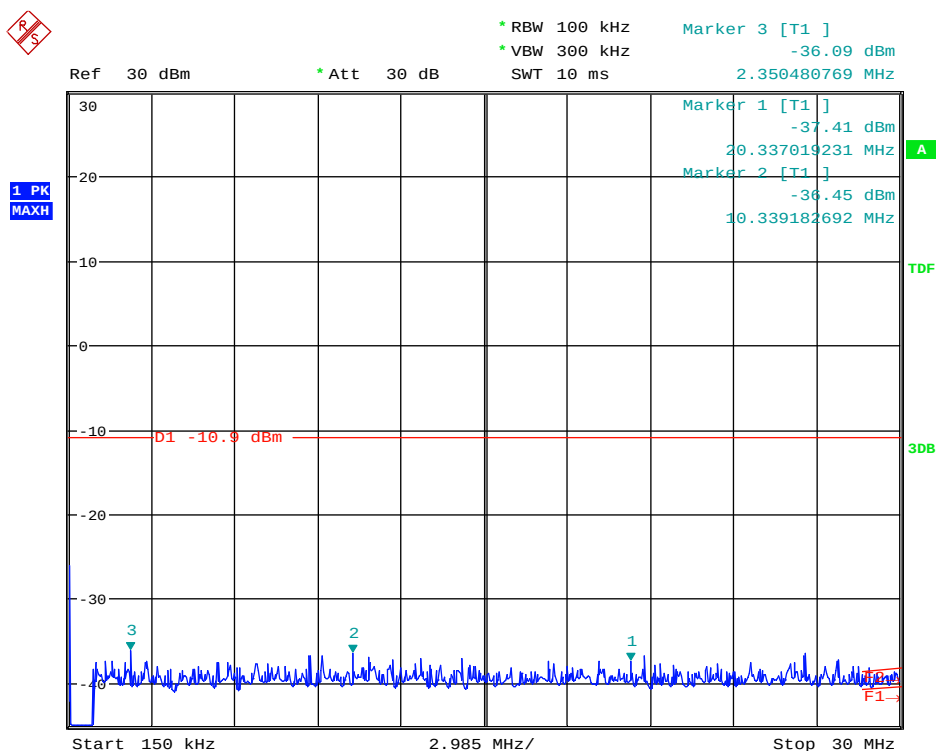
Plot 87: 20dBc-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz



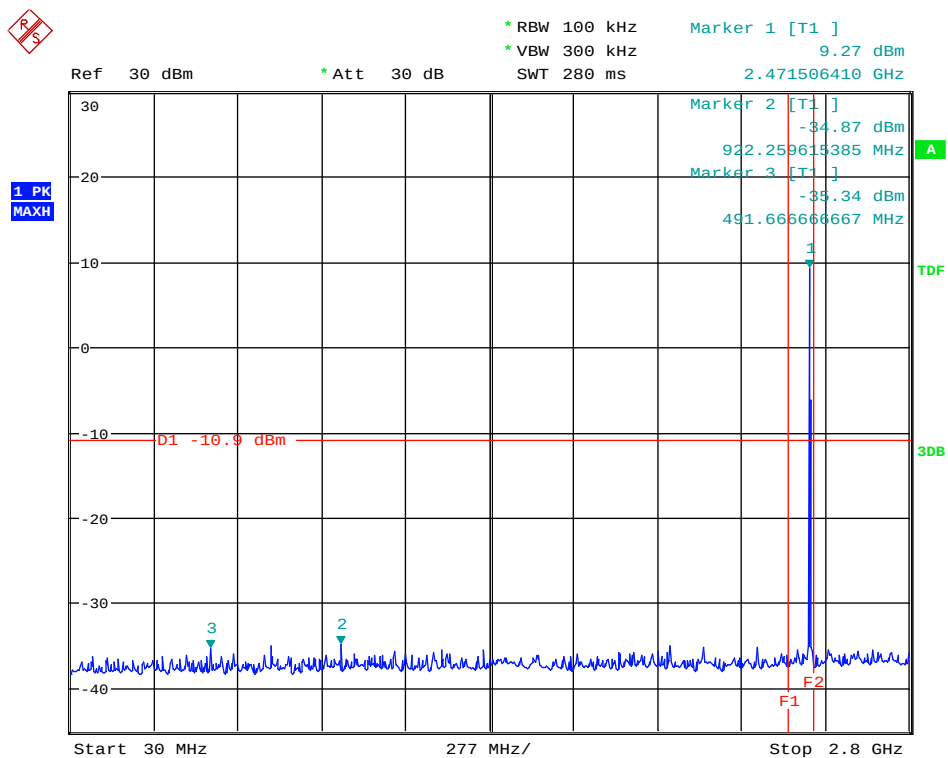
Plot 88: 20dBc-RCM24G-MSK-50Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz



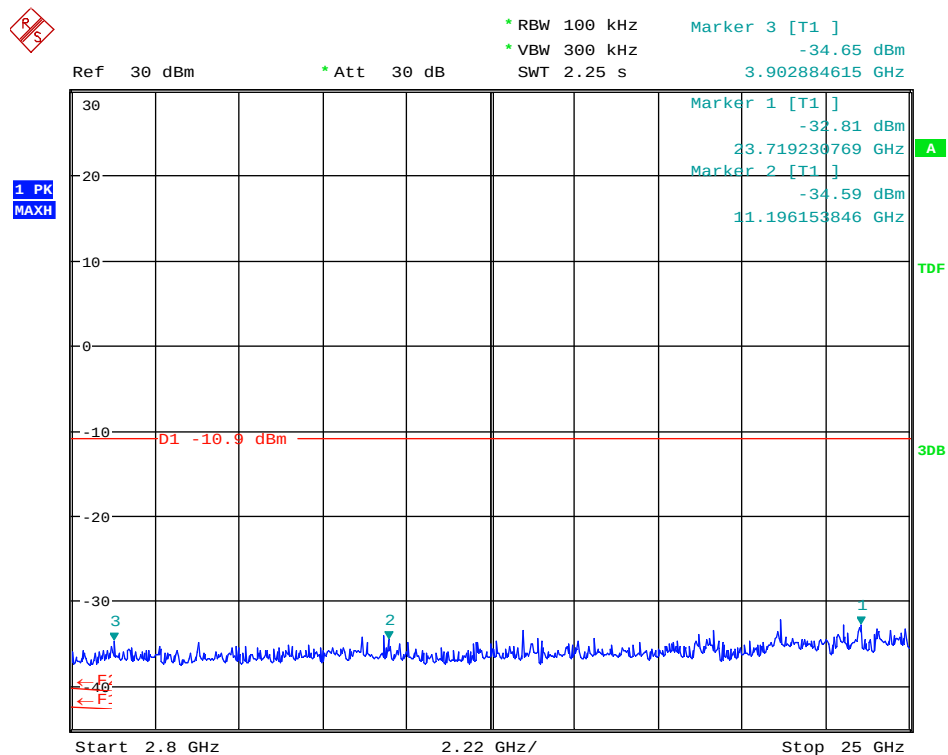
Plot 89: 20dBc-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm-Carrier



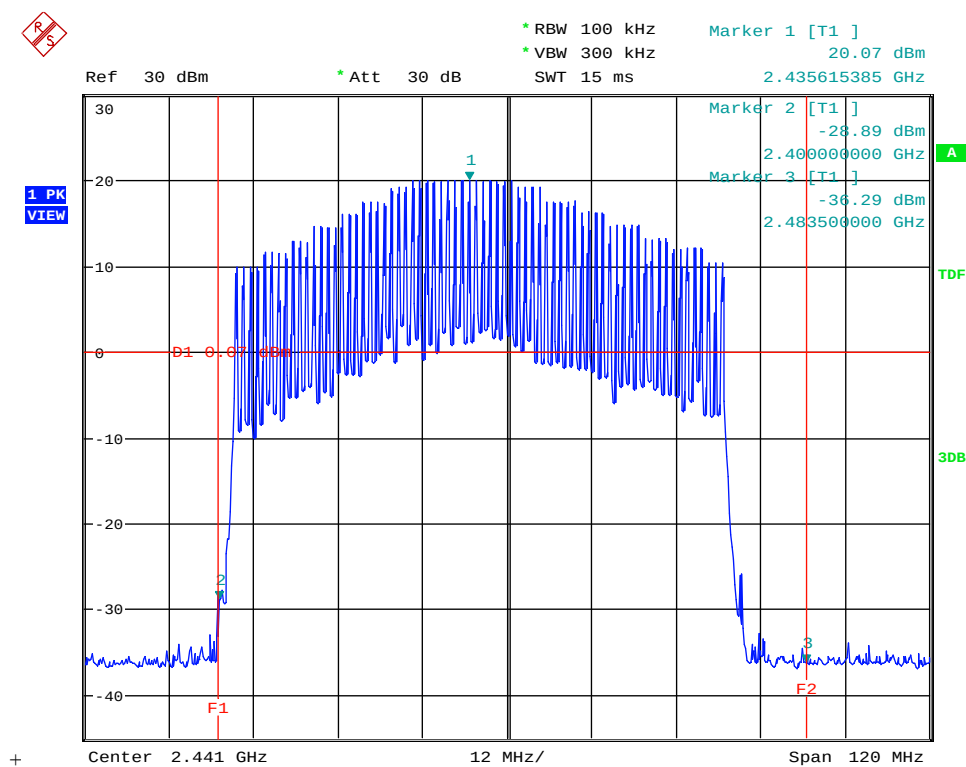
Plot 90: 20dBc-RCM24G-MSK-50Kbps- Ch69(2471.5 MHz)-PWR+12dBm-0.15MHz-30MHz



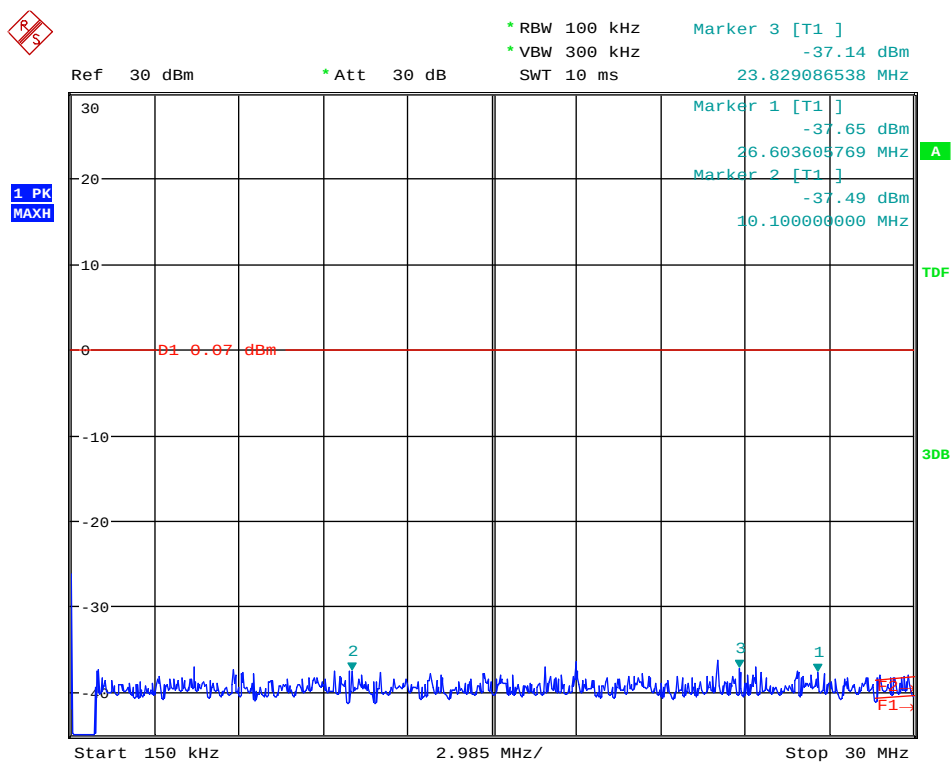
Plot 91: 20dBc-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



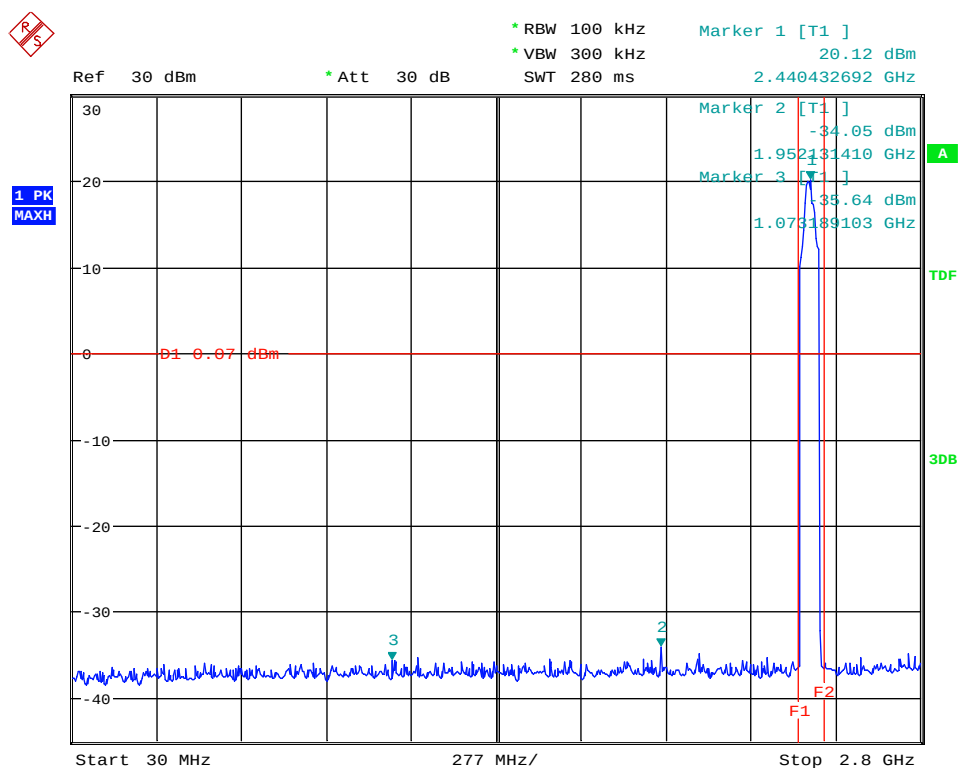
Plot 92: 20dBc-RCM24G-MSK-50Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



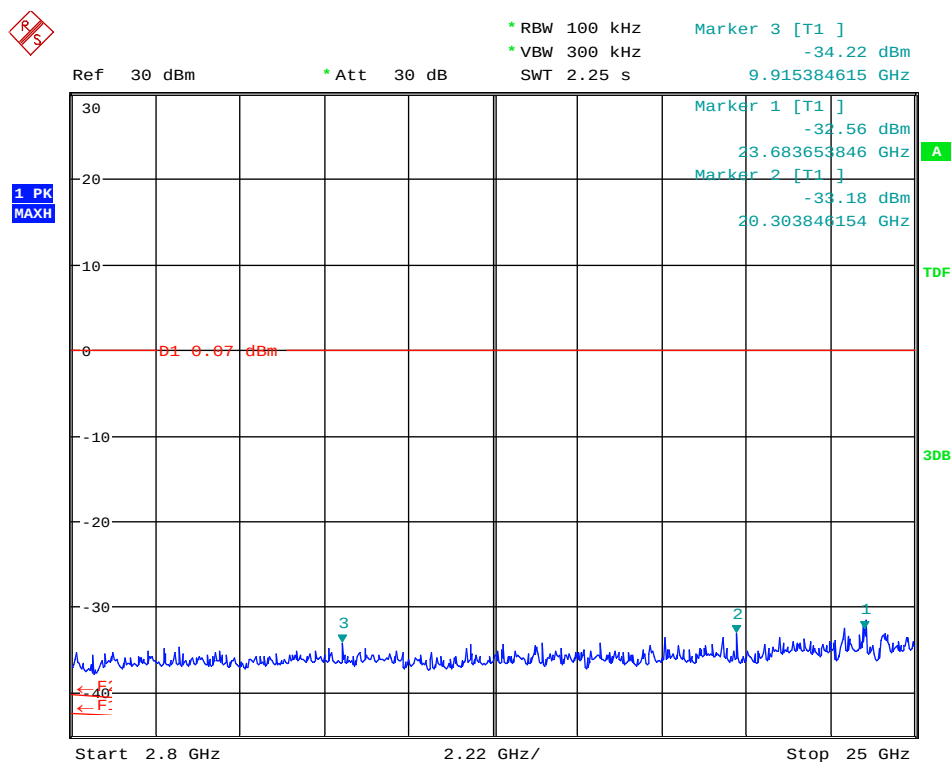
Plot 93: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 94: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz

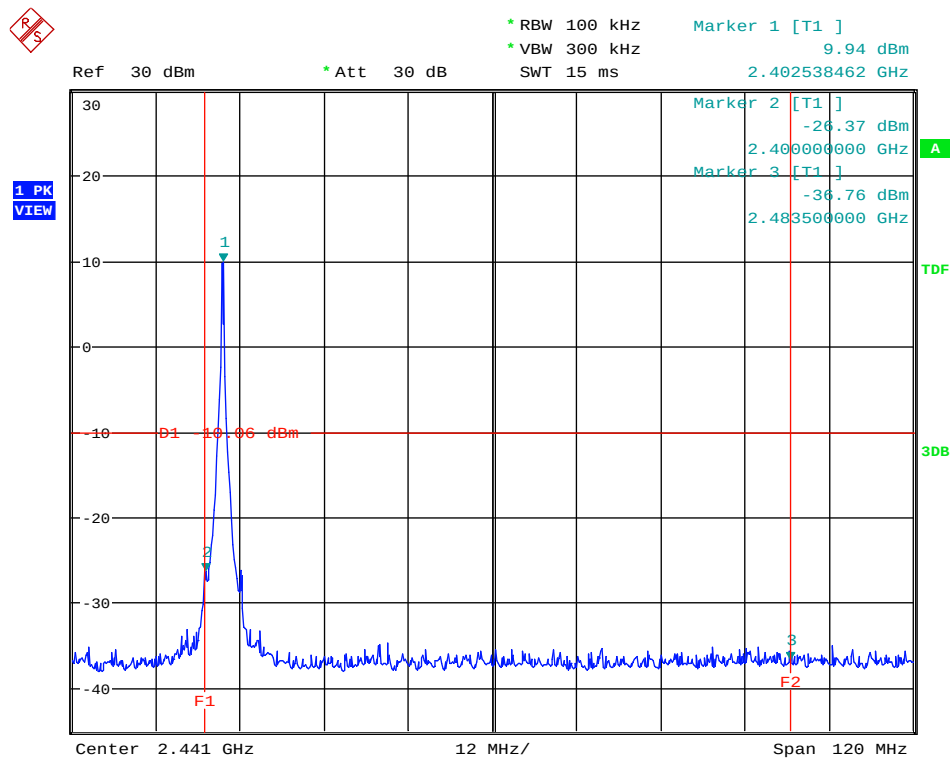


Plot 95: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz

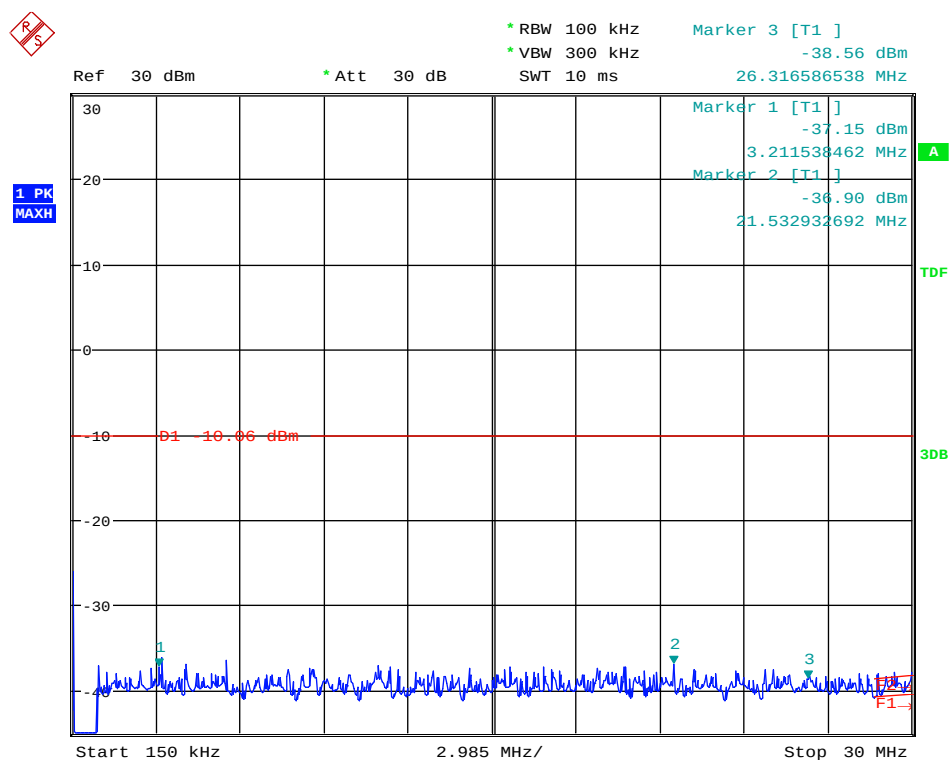


Plot 96: 20dBc-RCM24G-MSK-50Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

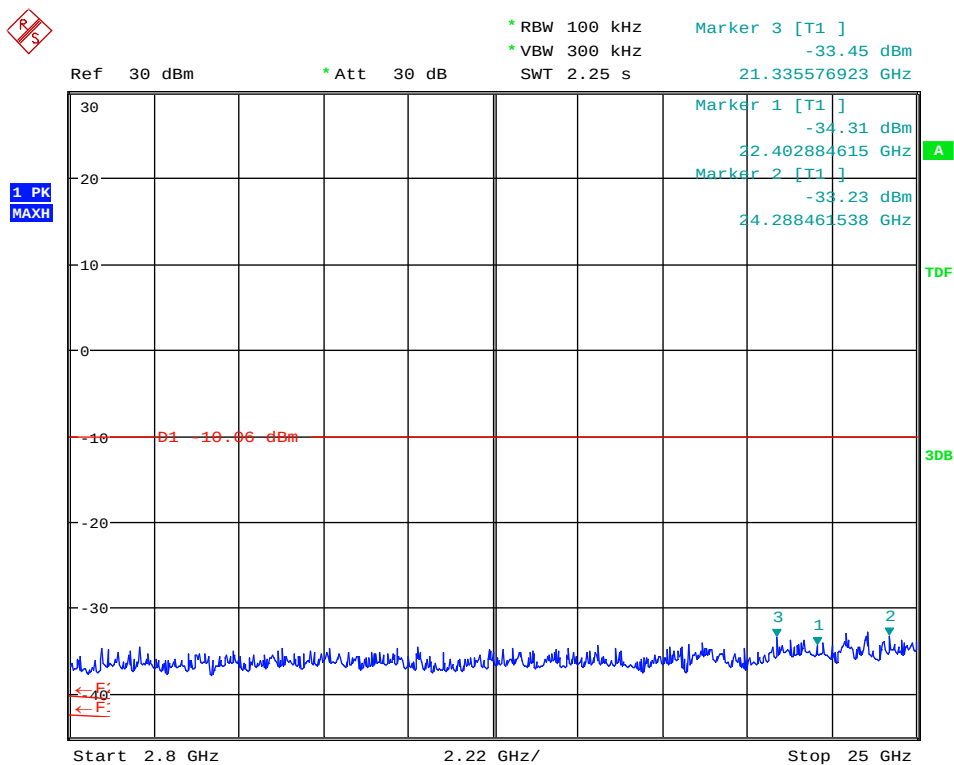
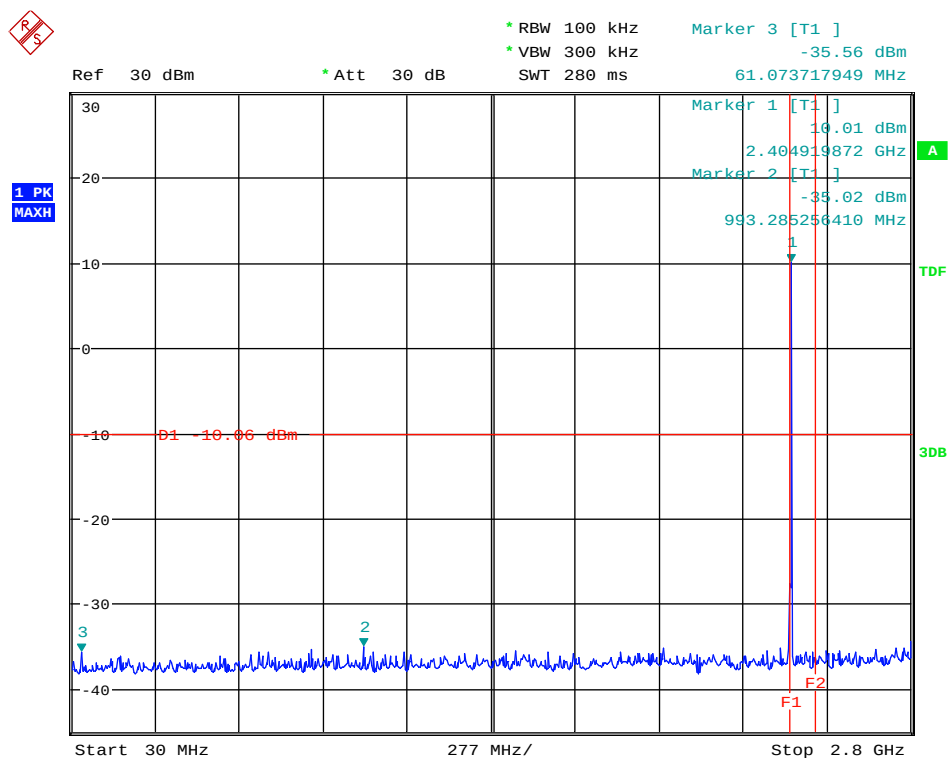
1.7.2. MSK-Data Rate 100Kbps

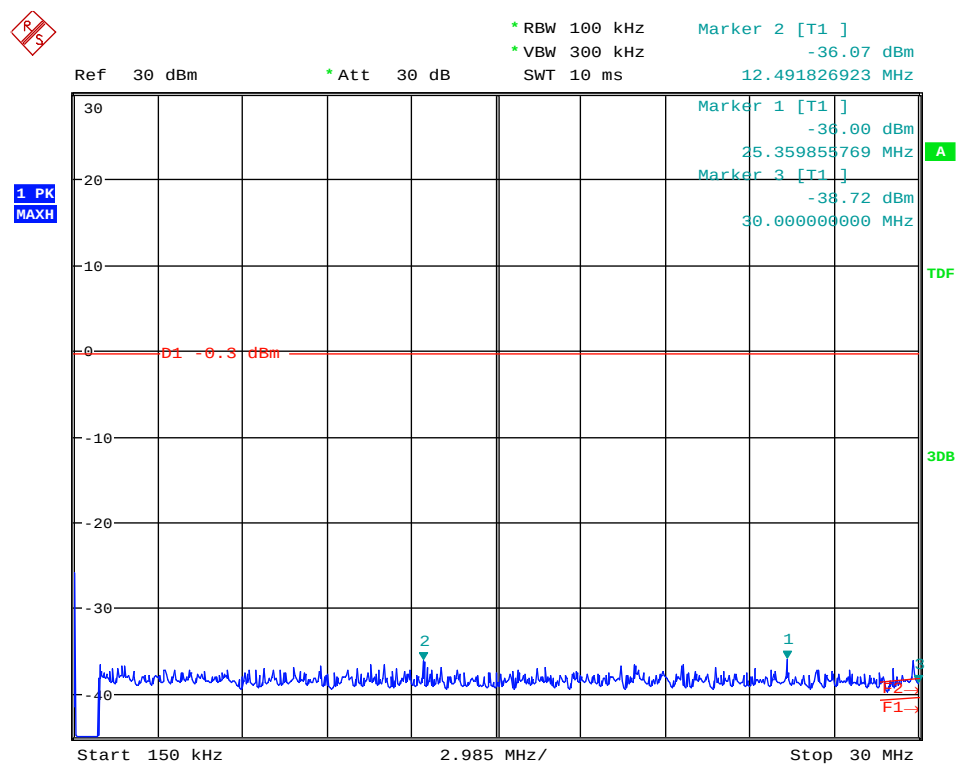
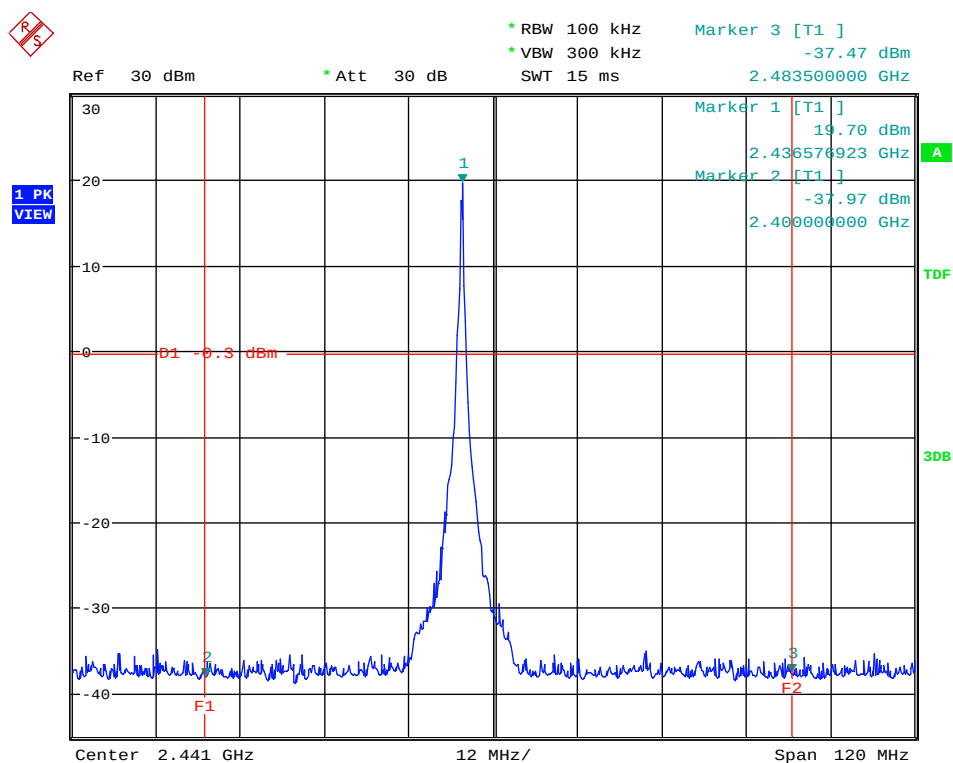


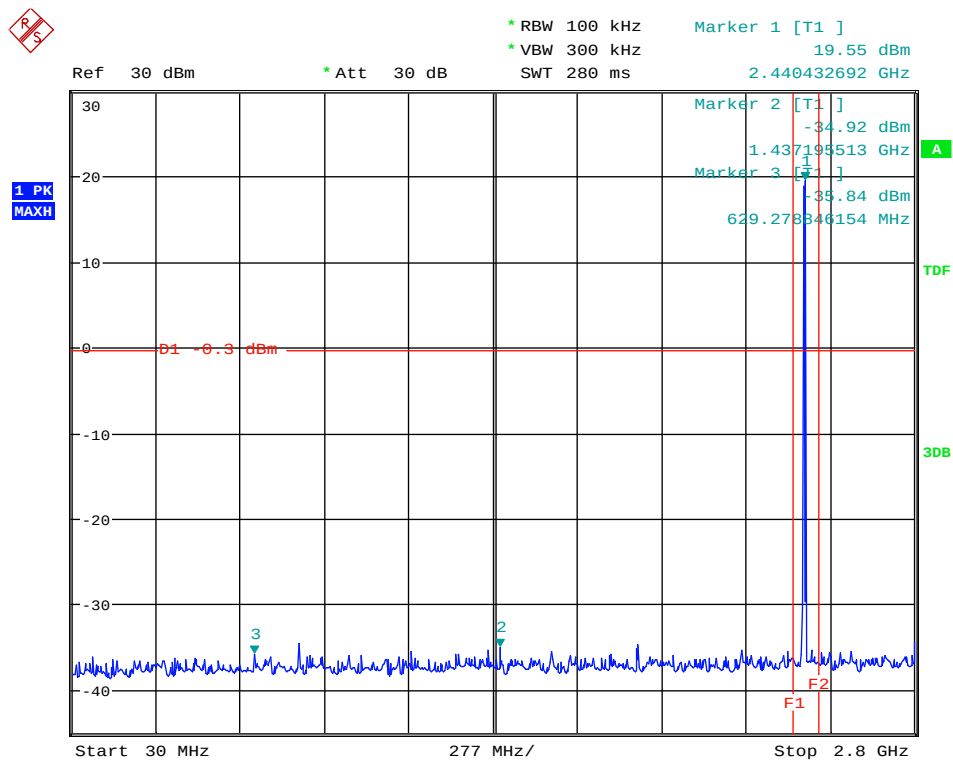
Plot 97: 20dBc-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



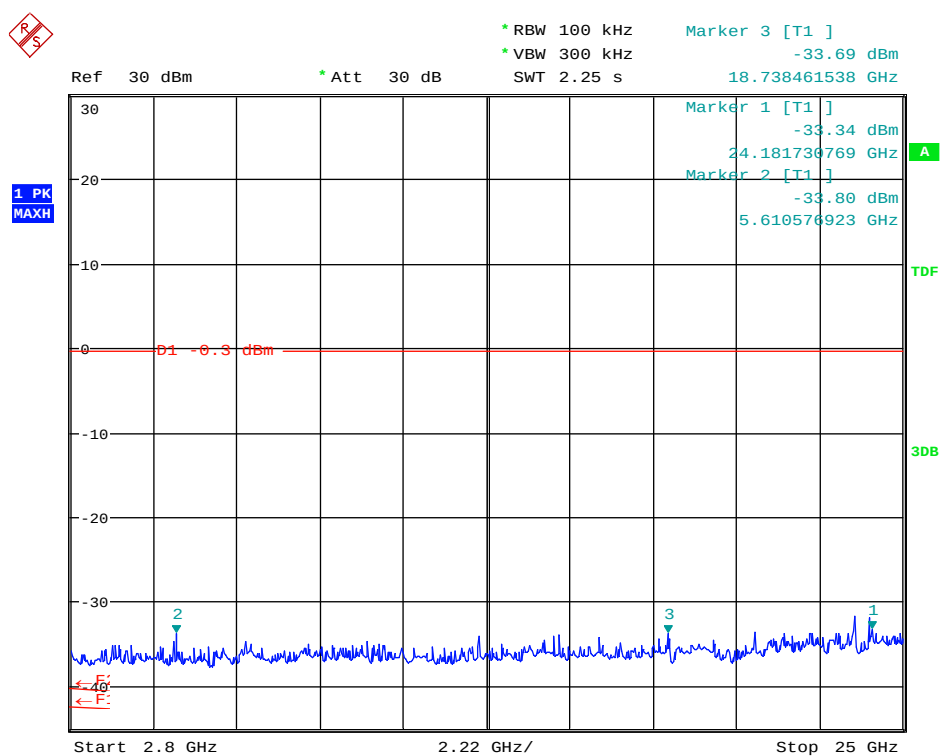
Plot 98: 20dBc-RCM24G-MSK-100Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



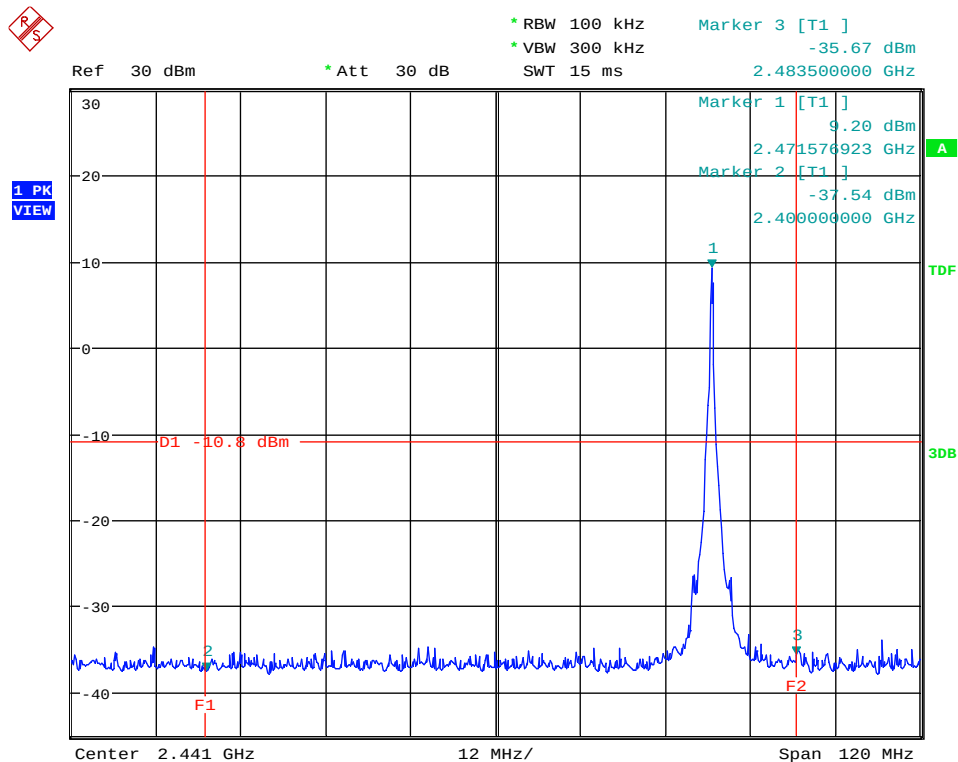




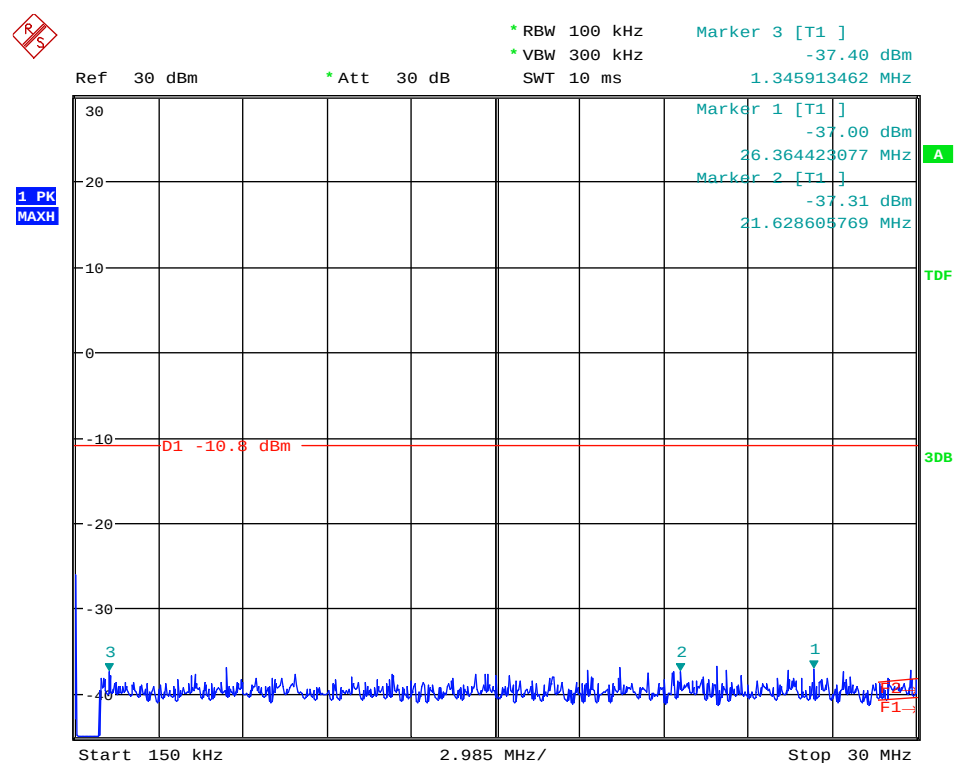
Plot 103: 20dBc-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz



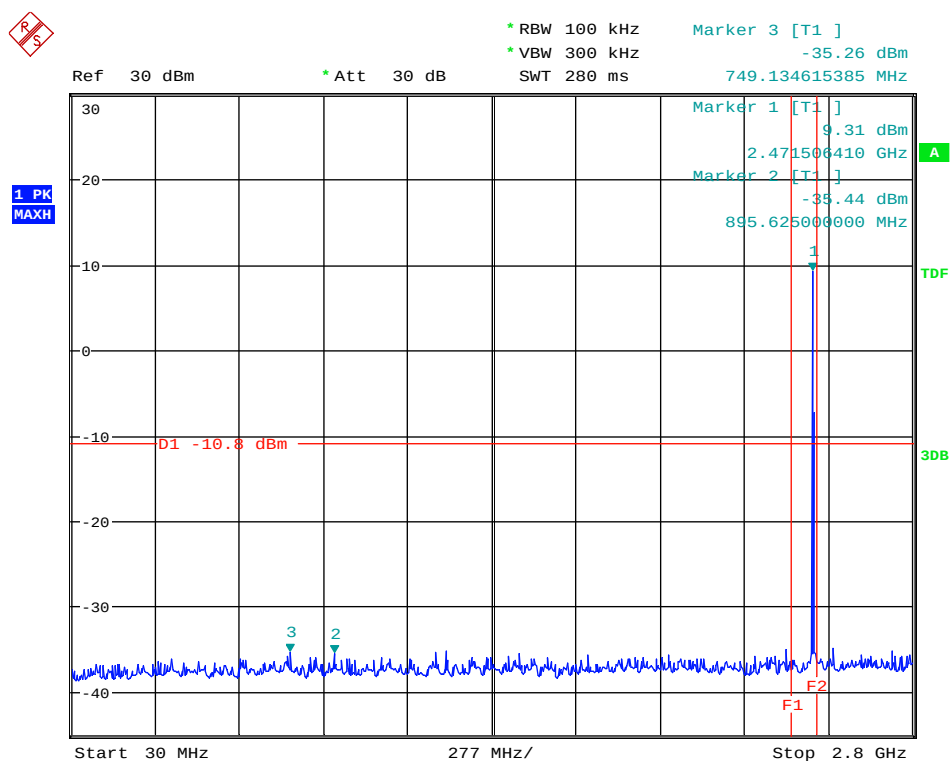
Plot 104: 20dBc-RCM24G-MSK-100Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz



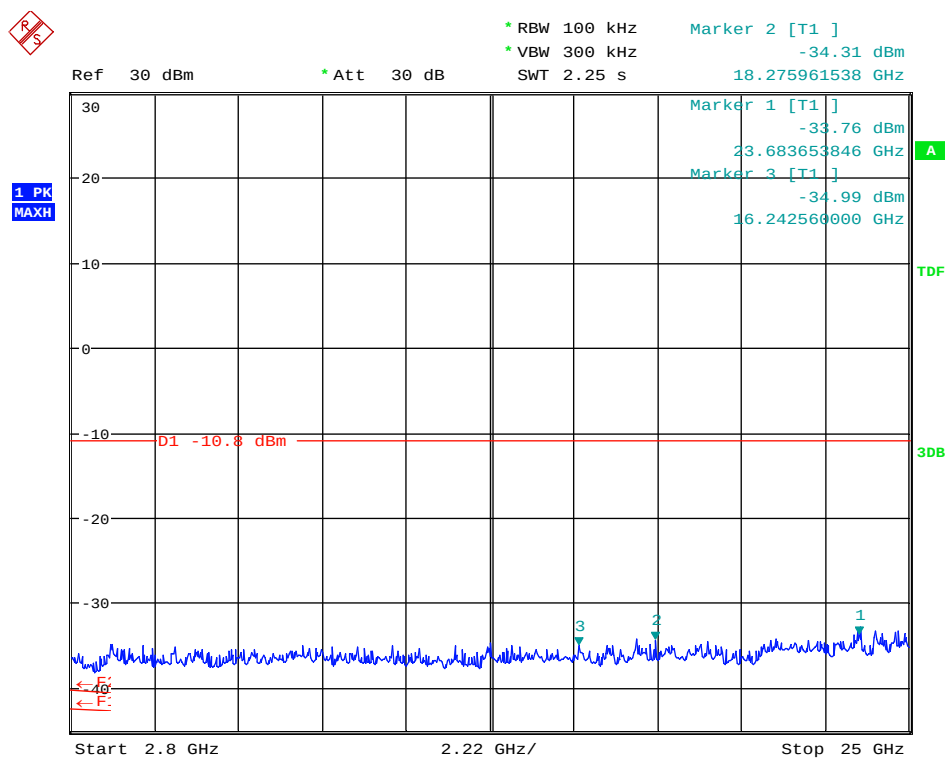
Plot 105: 20dBc-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm-Carrier



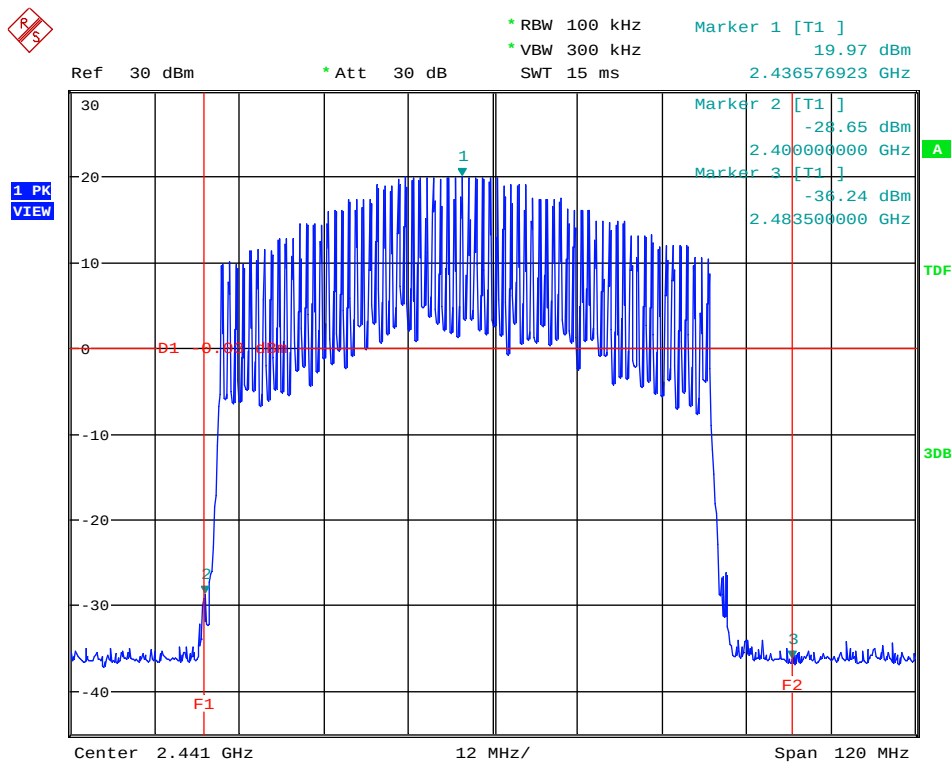
Plot 106: 20dBc-RCM24G-MSK-100Kbps- Ch69(2471.5 MHz)-PWR+12dBm-0.15MHz-30MHz



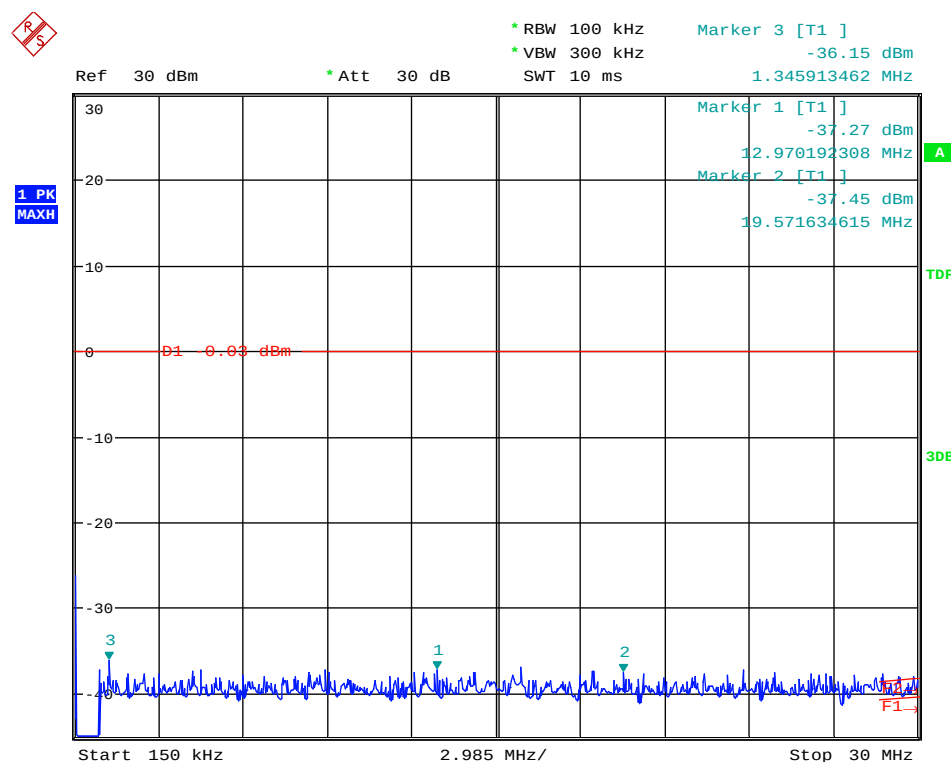
Plot 107: 20dBc-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



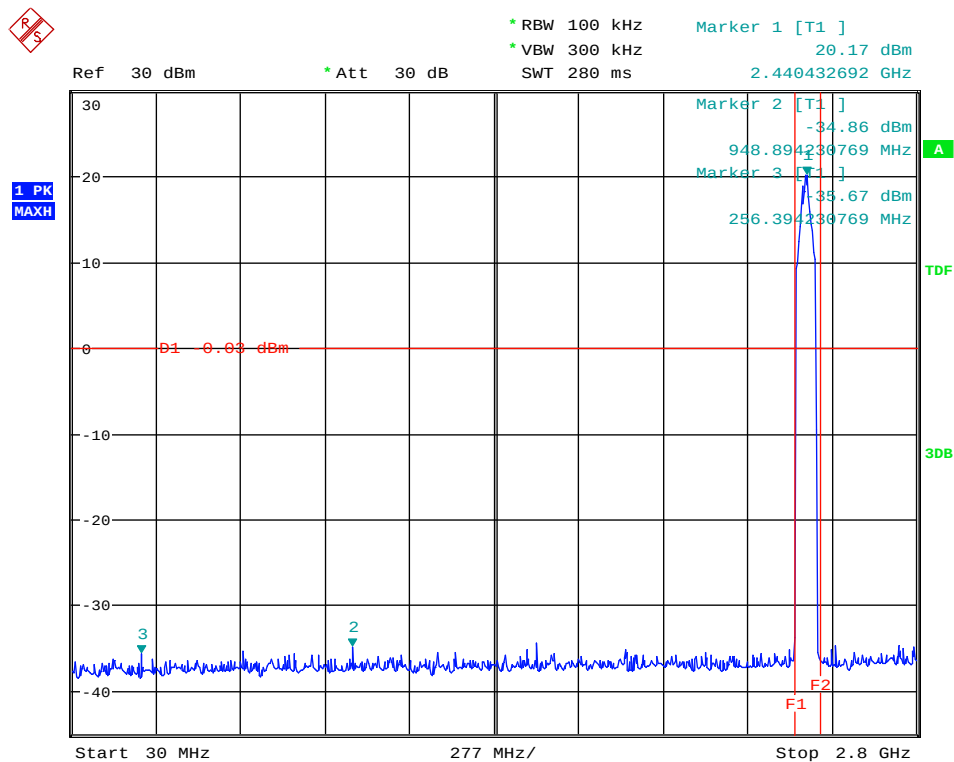
Plot 108: 20dBc-RCM24G-MSK-100Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



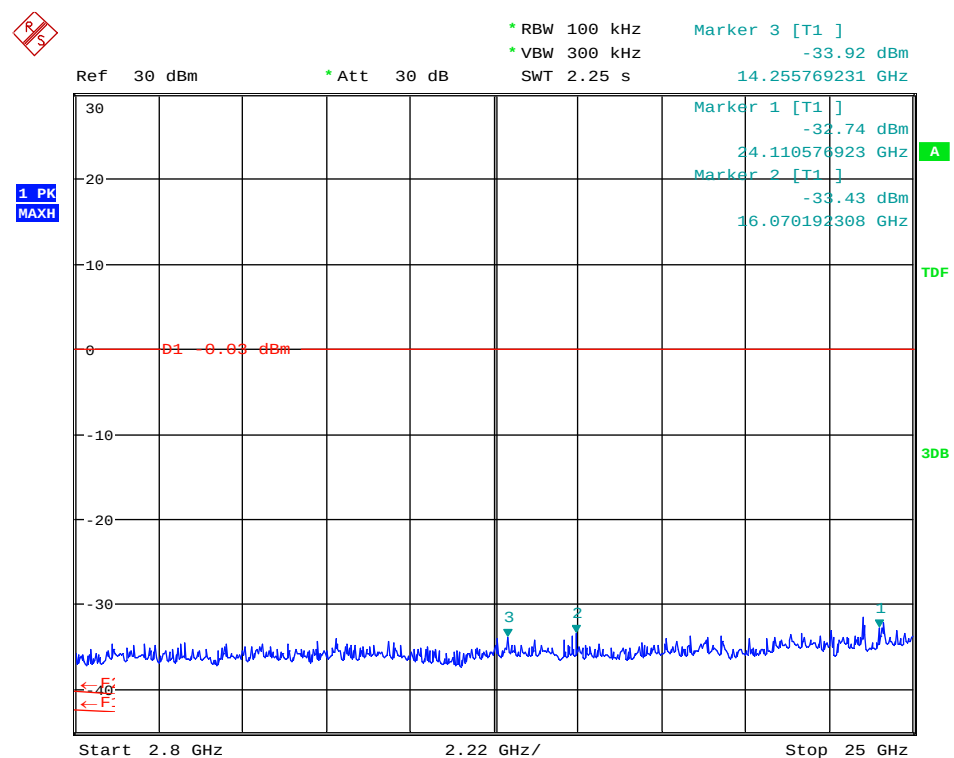
Plot 109: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 110: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz

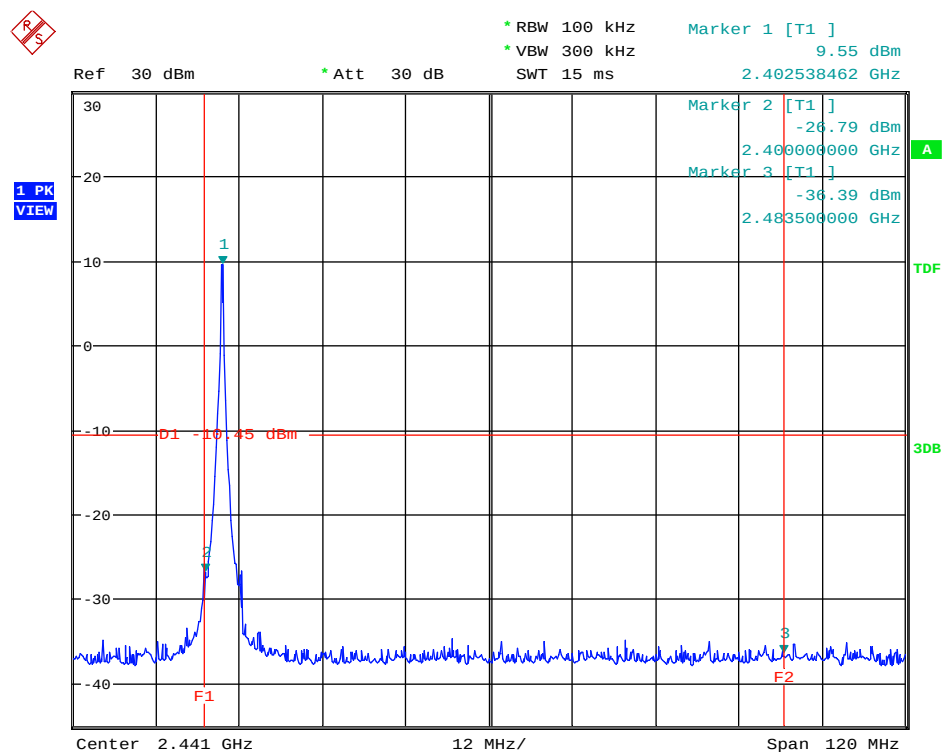


Plot 111: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz

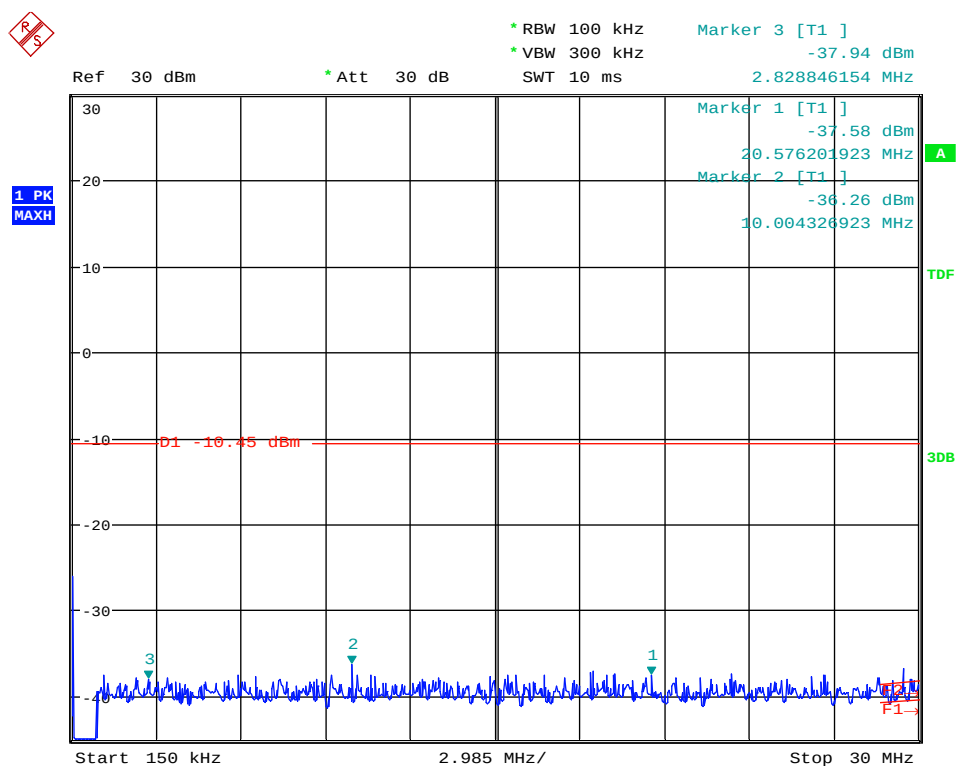


Plot 112: 20dBc-RCM24G-MSK-100Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

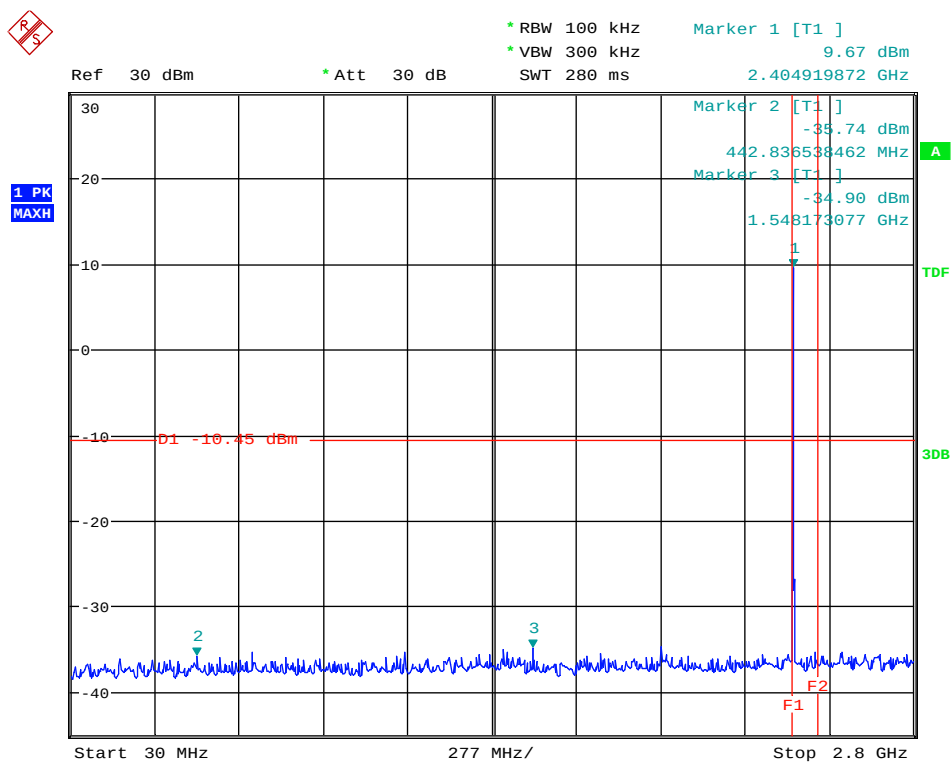
1.7.3. MSK-Data Rate 250Kbps



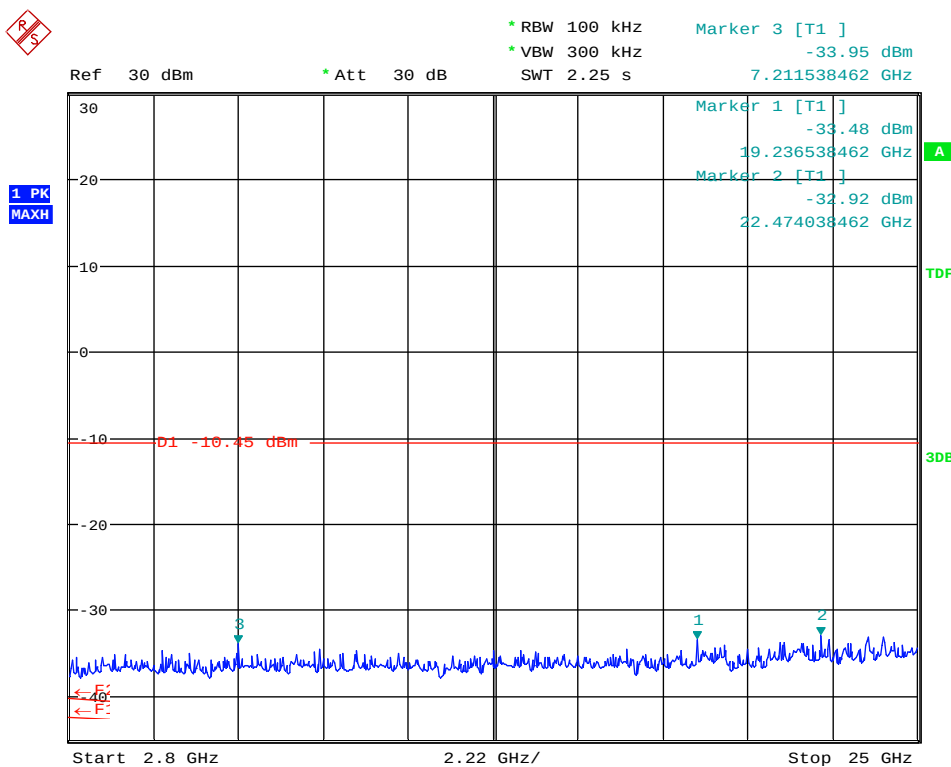
Plot 113: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-Carrier



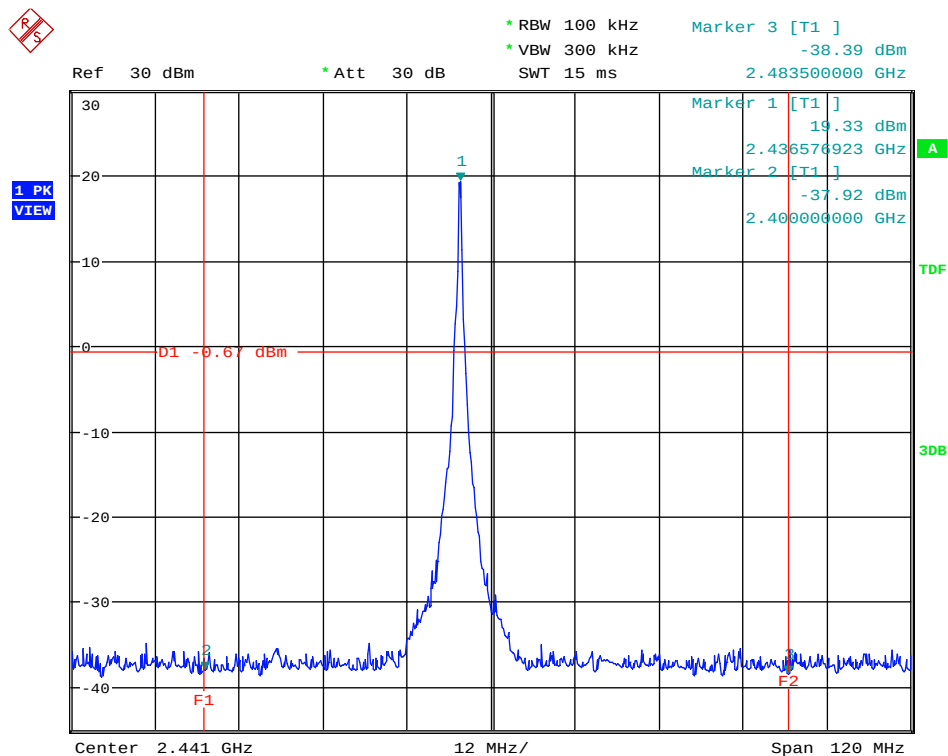
Plot 114: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-0.15MHz-30MHz



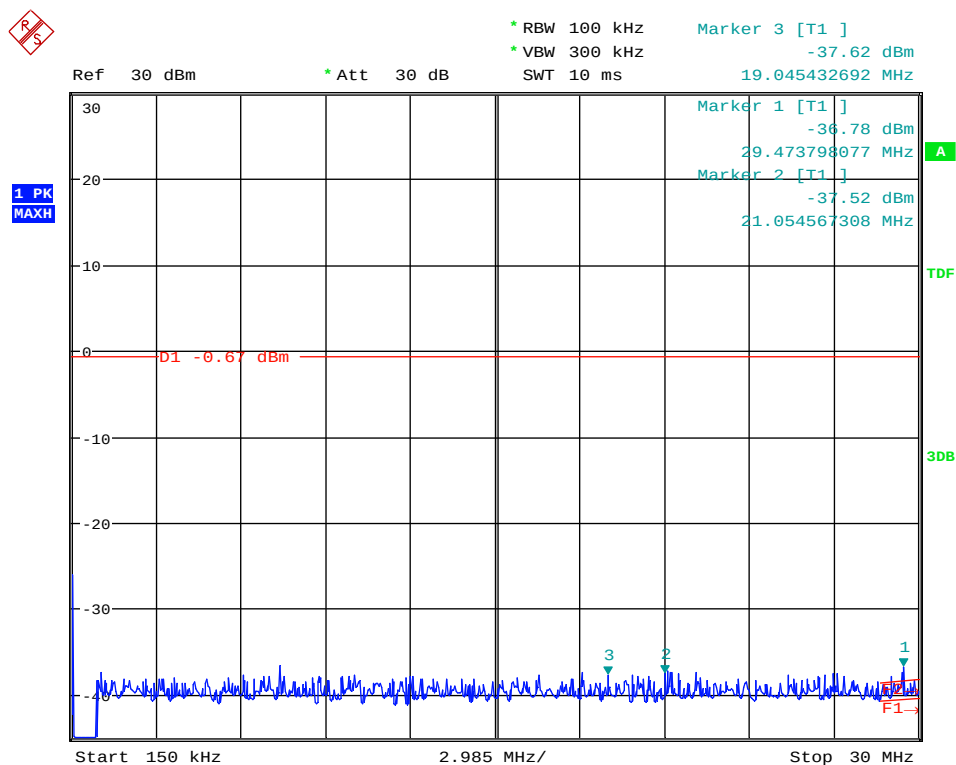
Plot 115: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-30MHz-2.8GHz



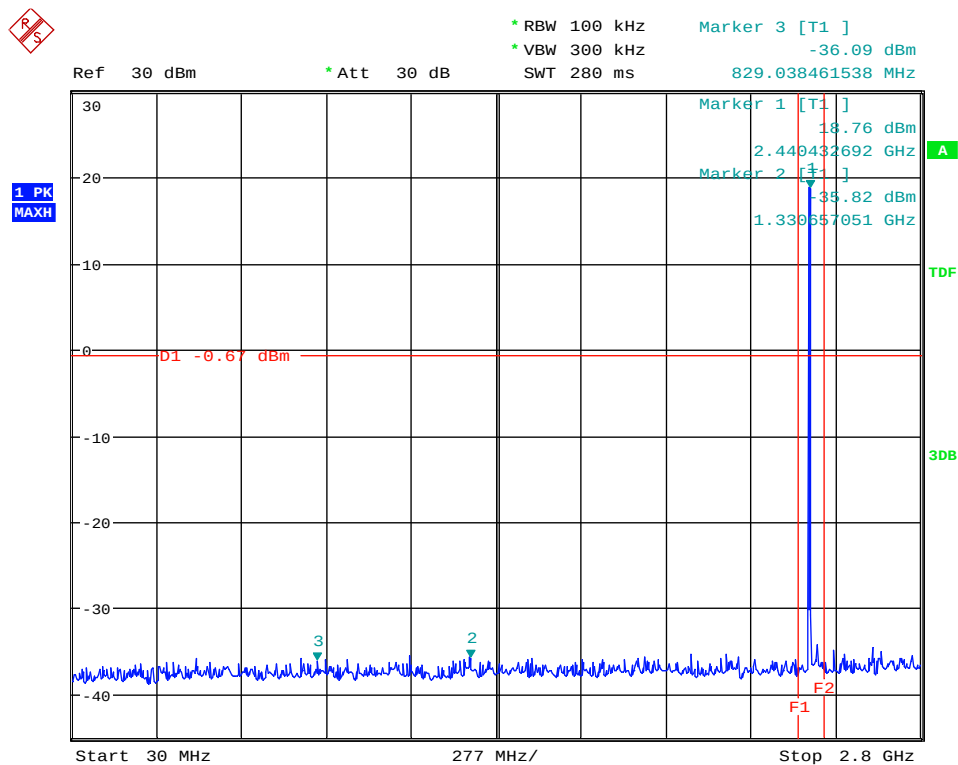
Plot 116: 20dBc-RCM24G-MSK-250Kbps-Ch0(2402.5 MHz)-PWR+12dBm-2.8GHz-25GHz



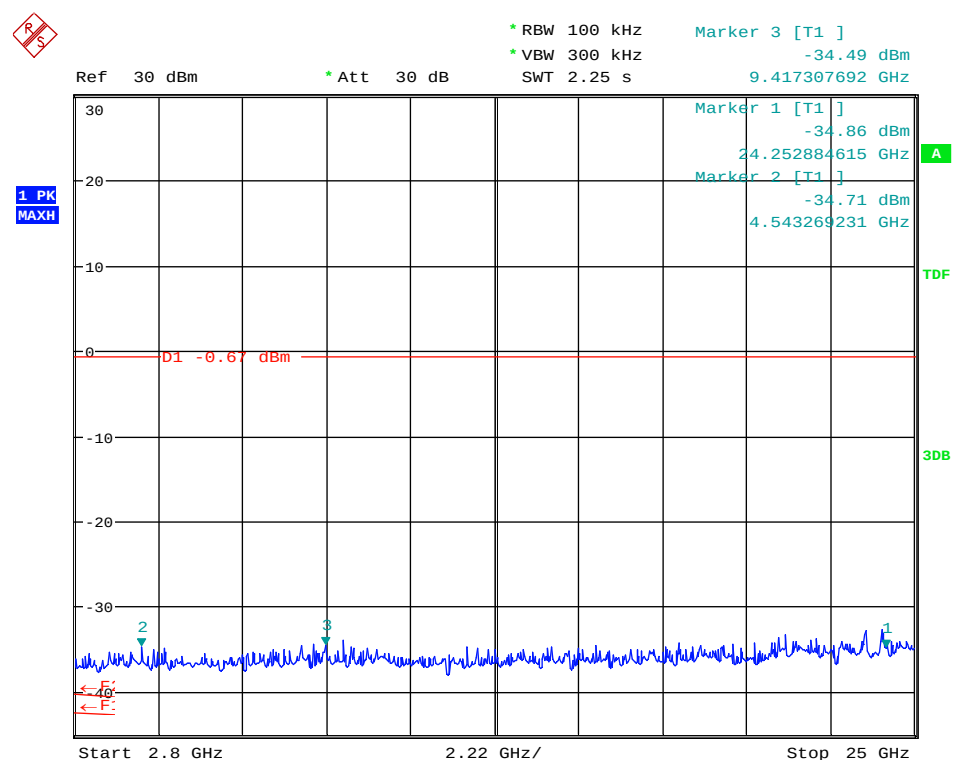
Plot 117: 20dBc-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm-Carrier



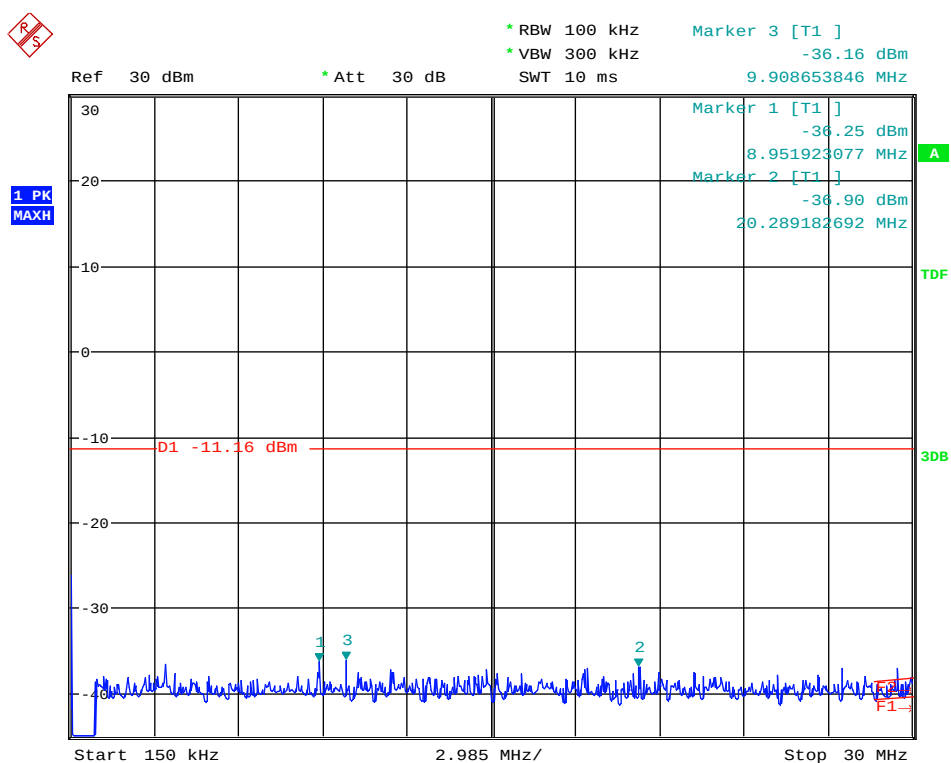
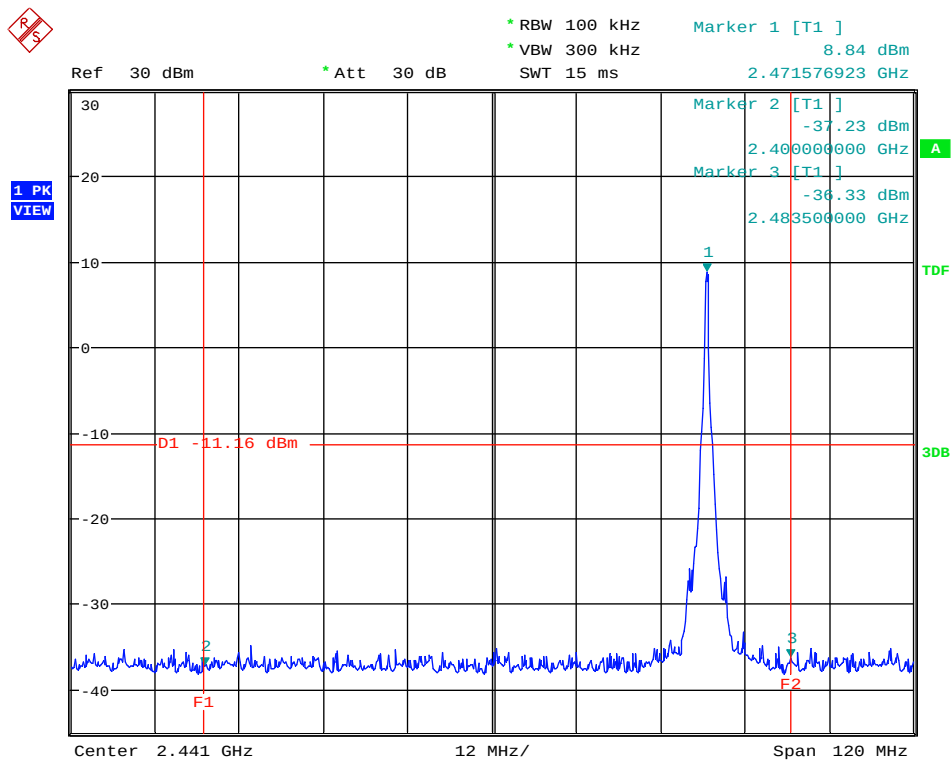
Plot 118: 20dBc-RCM24G-MSK-250Kbps- Ch34(2436.5 MHz)-PWR+21dBm-0.15MHz-30MHz

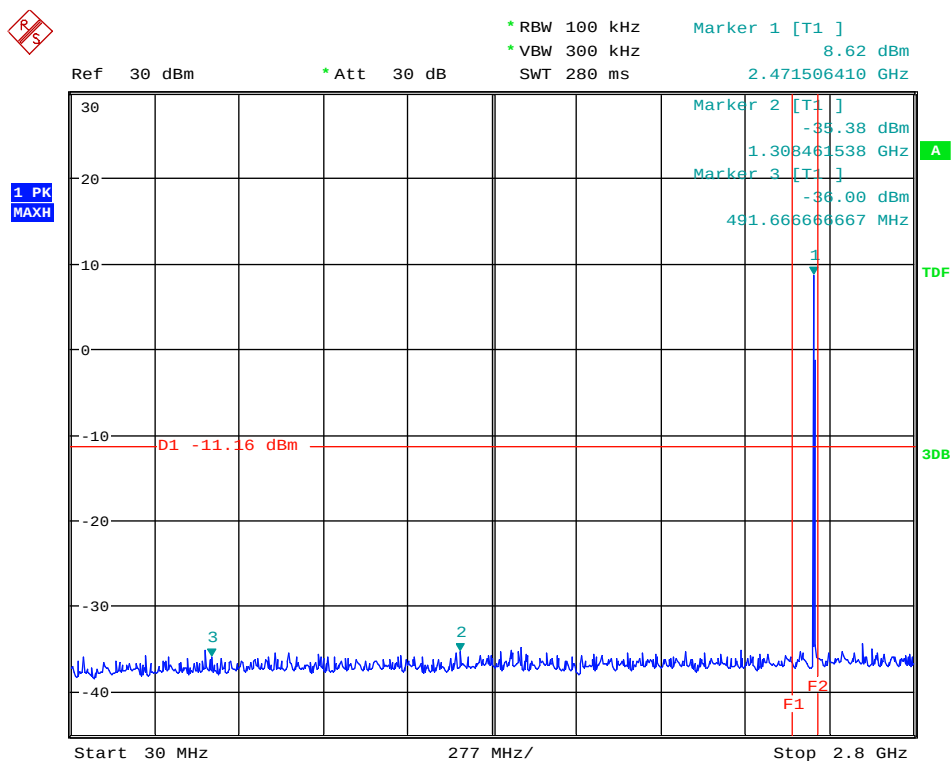


Plot 119: 20dBc-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm-30MHz-2.8GHz

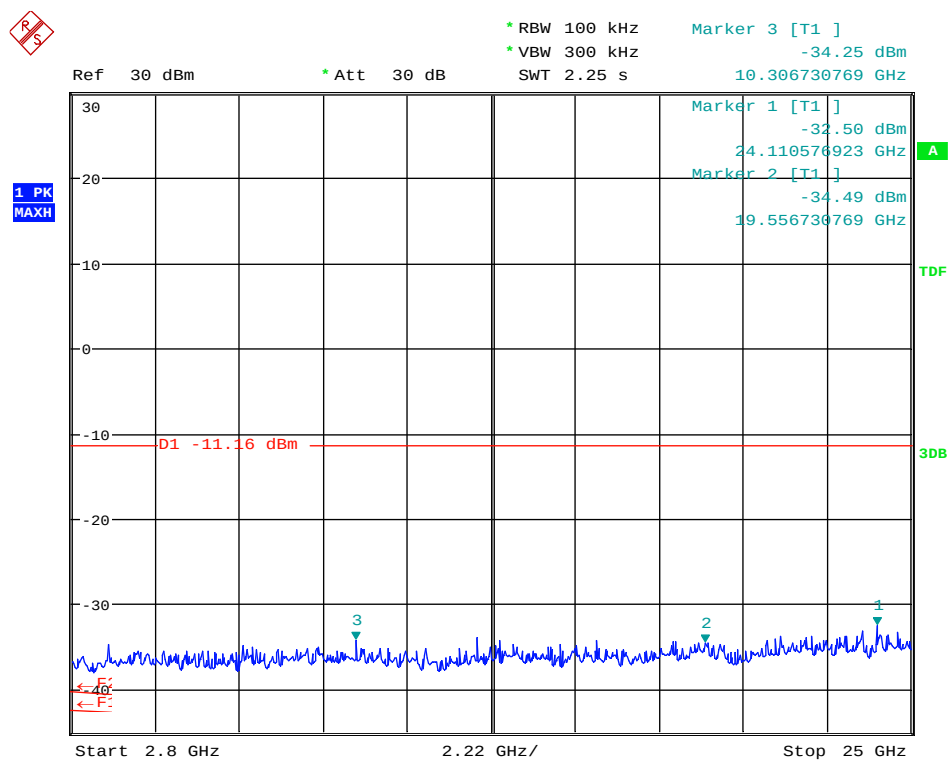


Plot 120: 20dBc-RCM24G-MSK-250Kbps-Ch34(2436.5 MHz)-PWR+21dBm-2.8GHz-25GHz

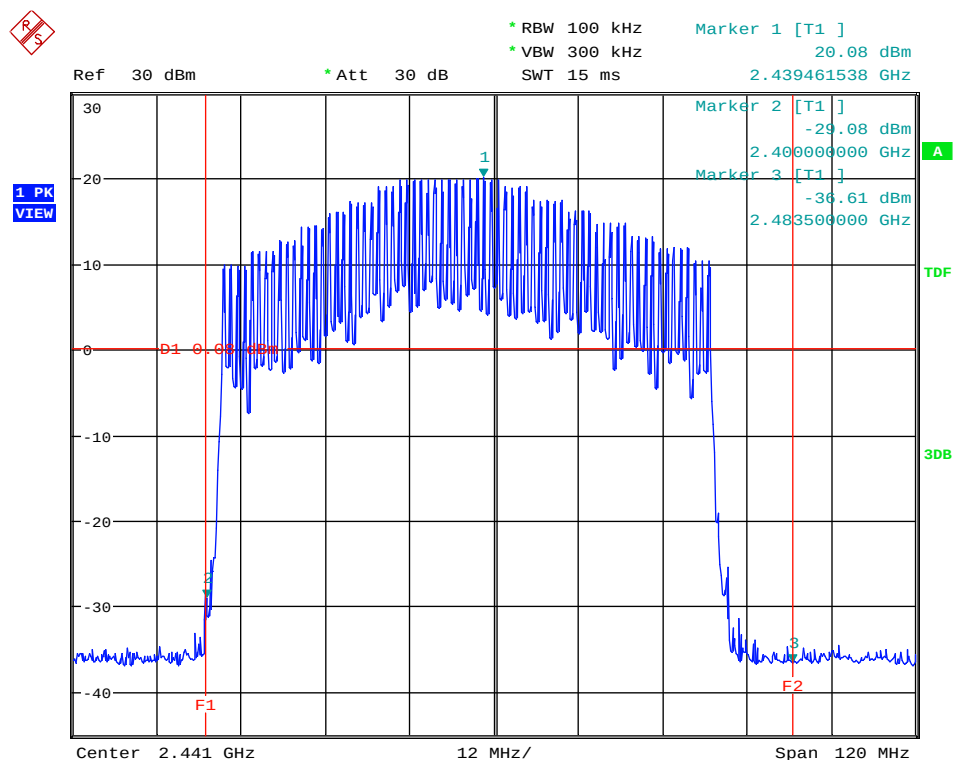




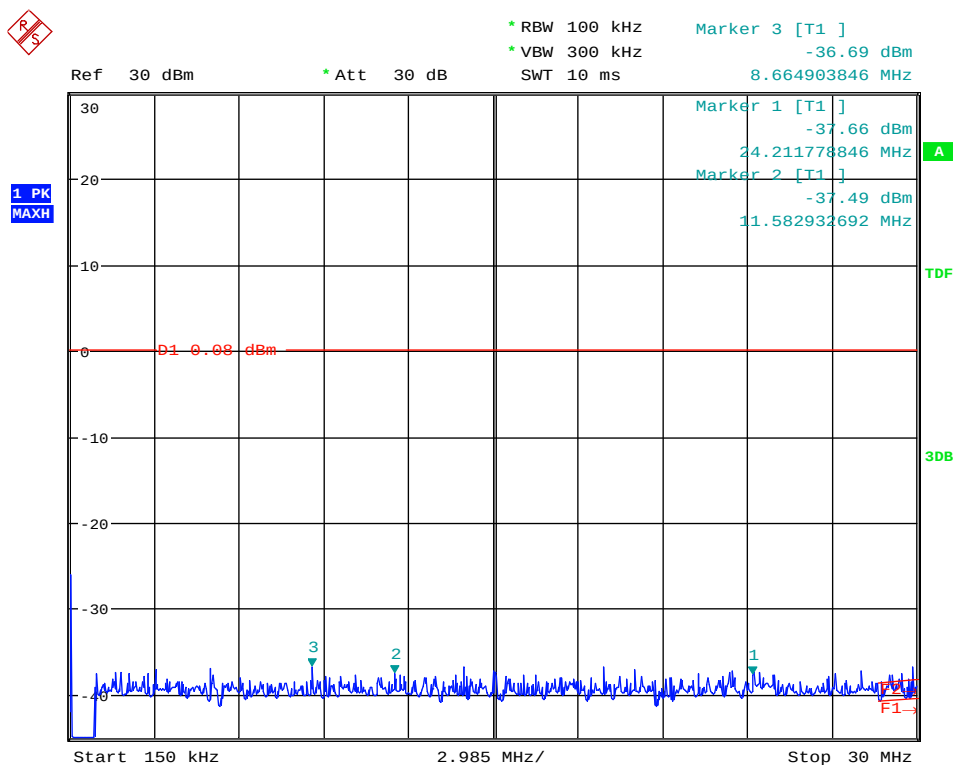
Plot 123: 20dBc-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



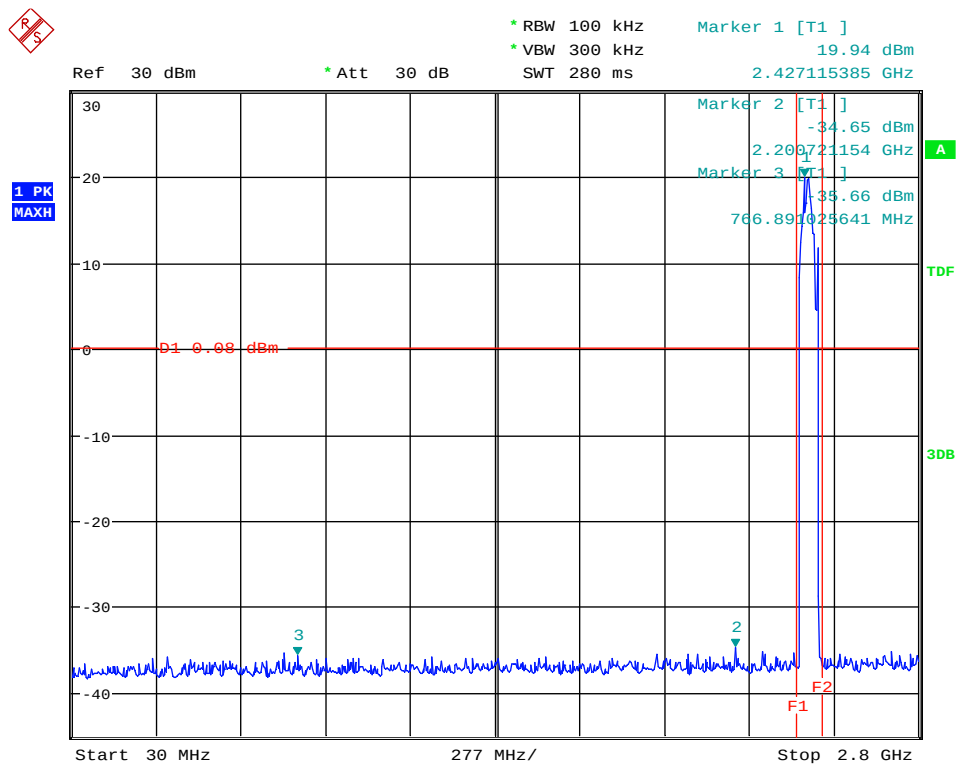
Plot 124: 20dBc-RCM24G-MSK-250Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



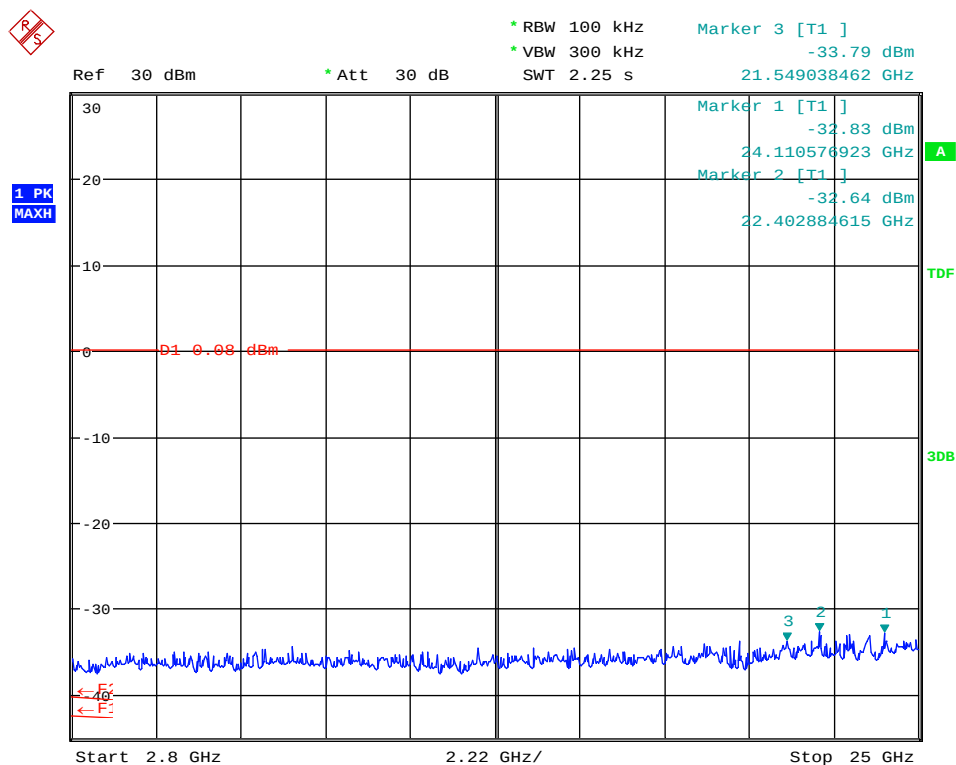
Plot 125: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 126: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz

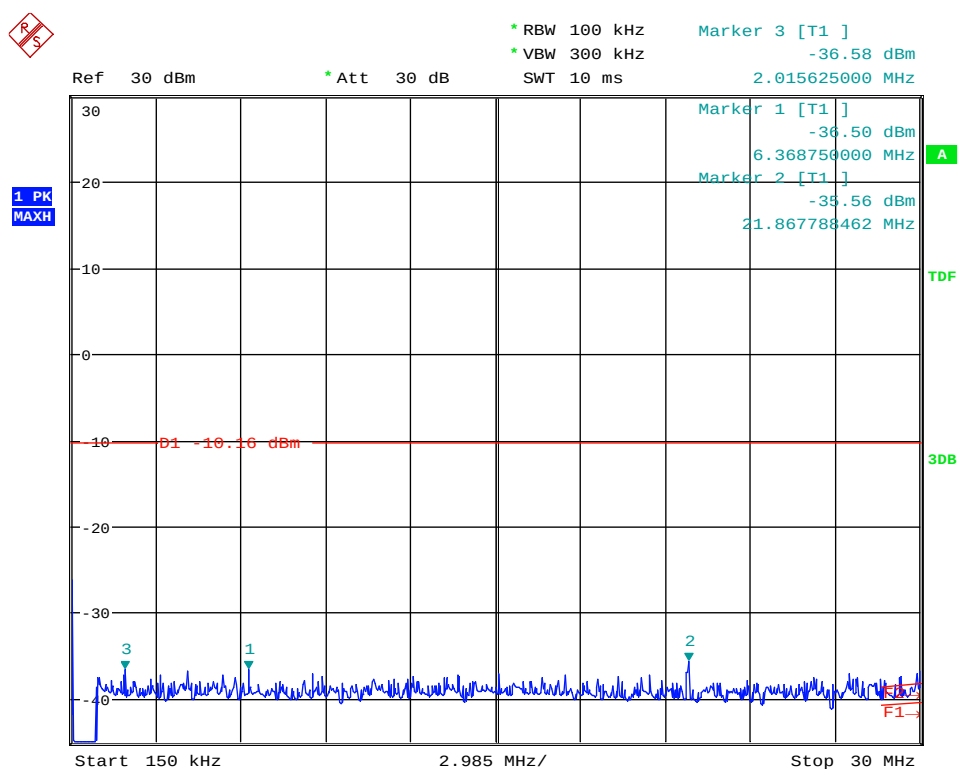
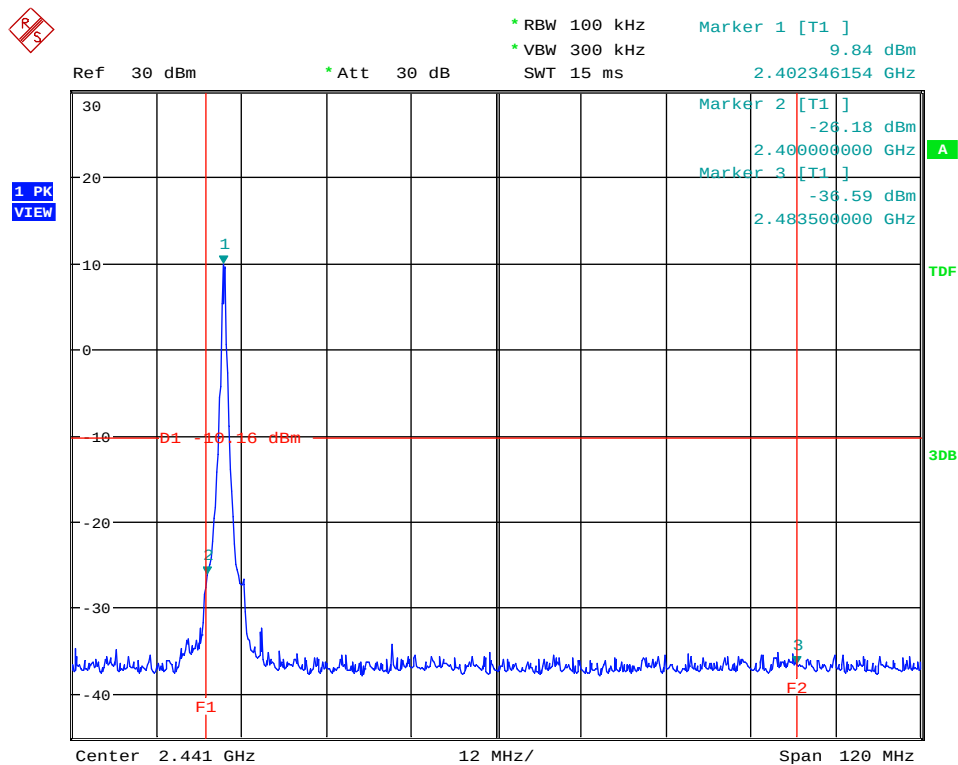


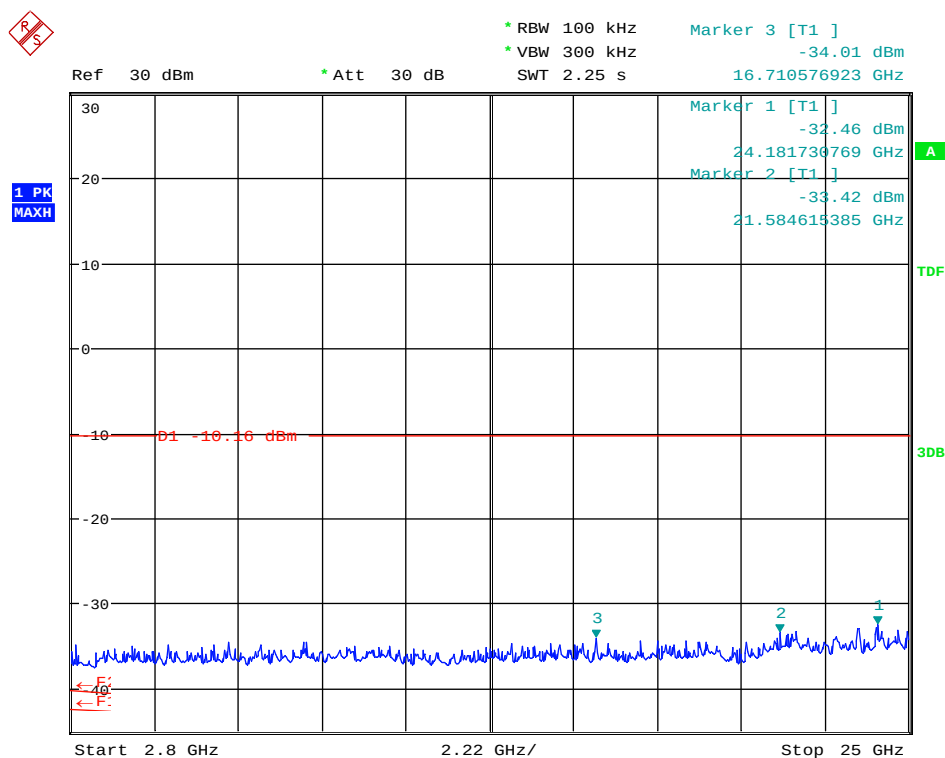
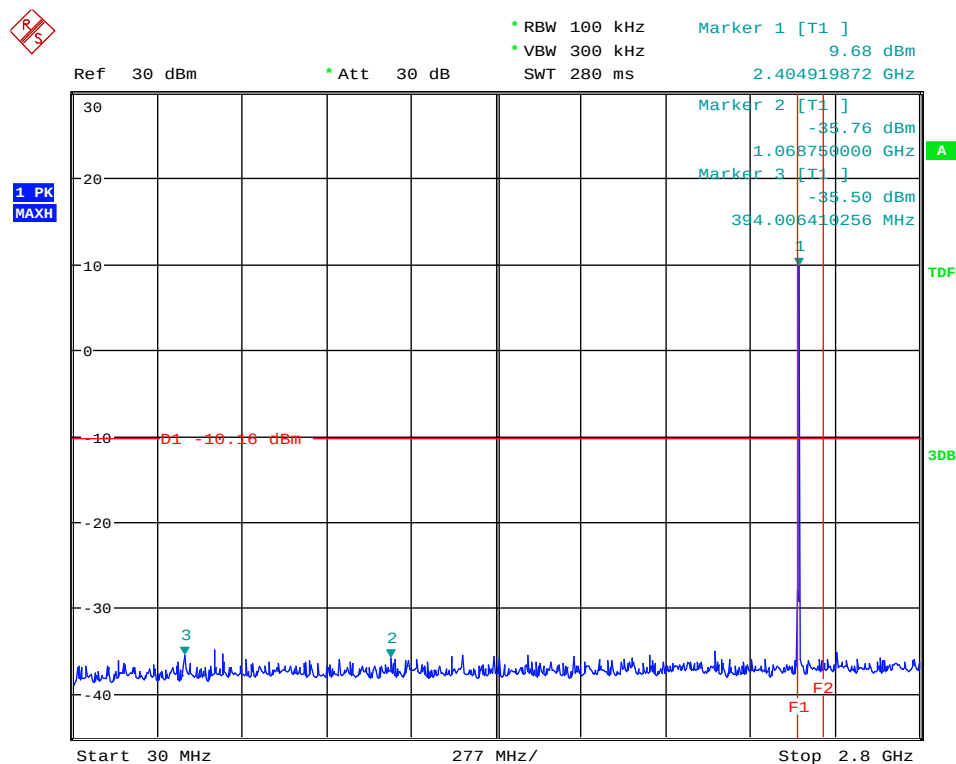
Plot 127: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz

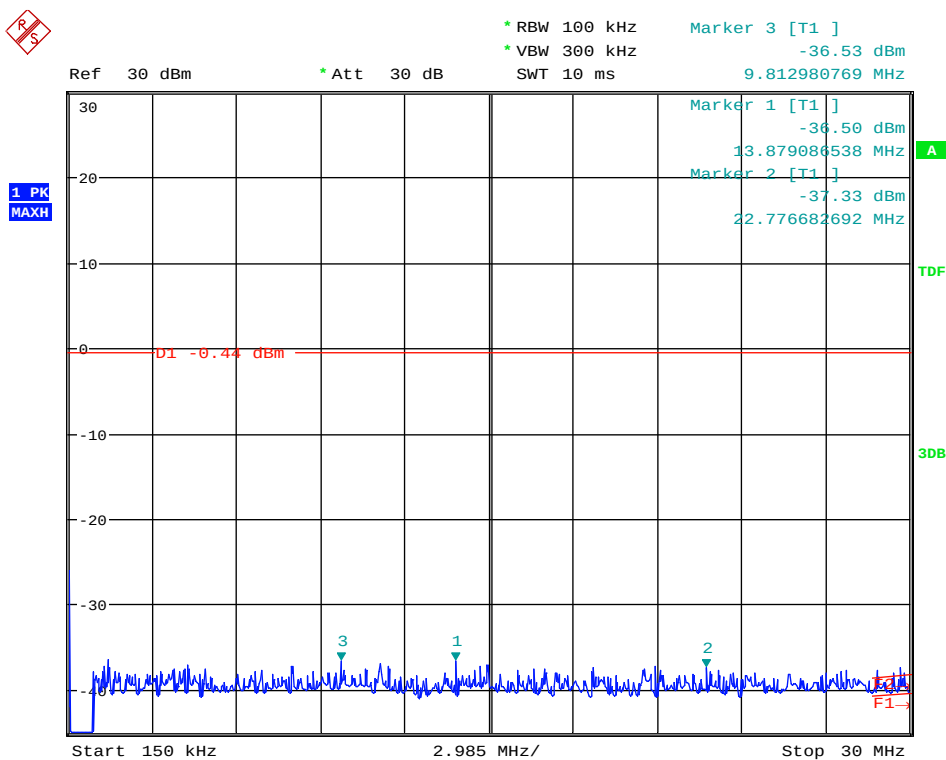
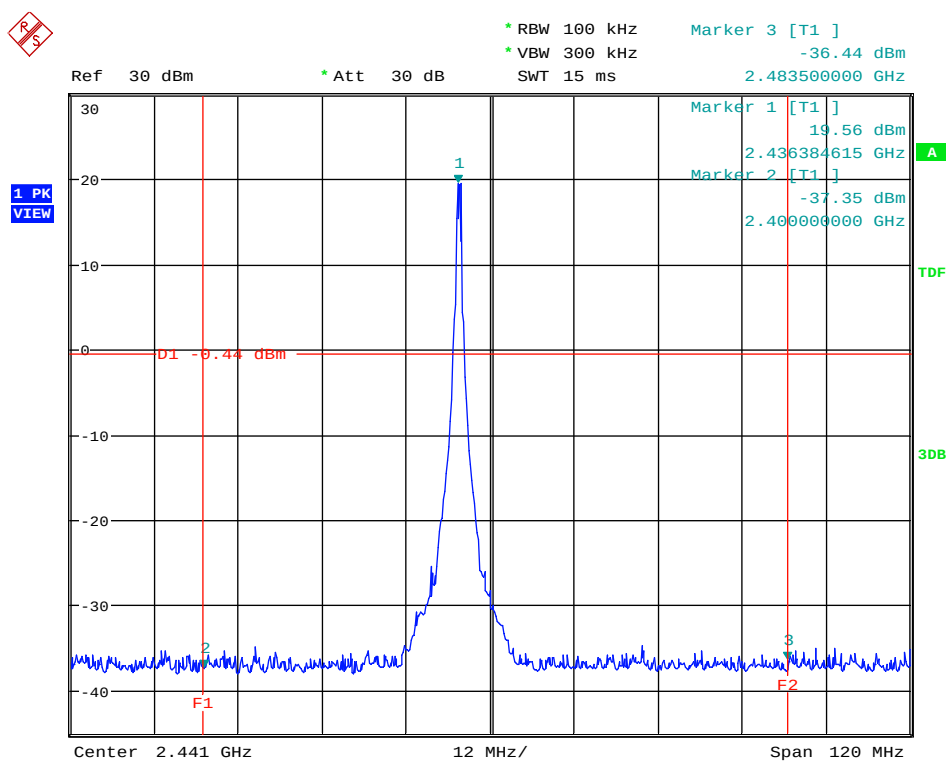


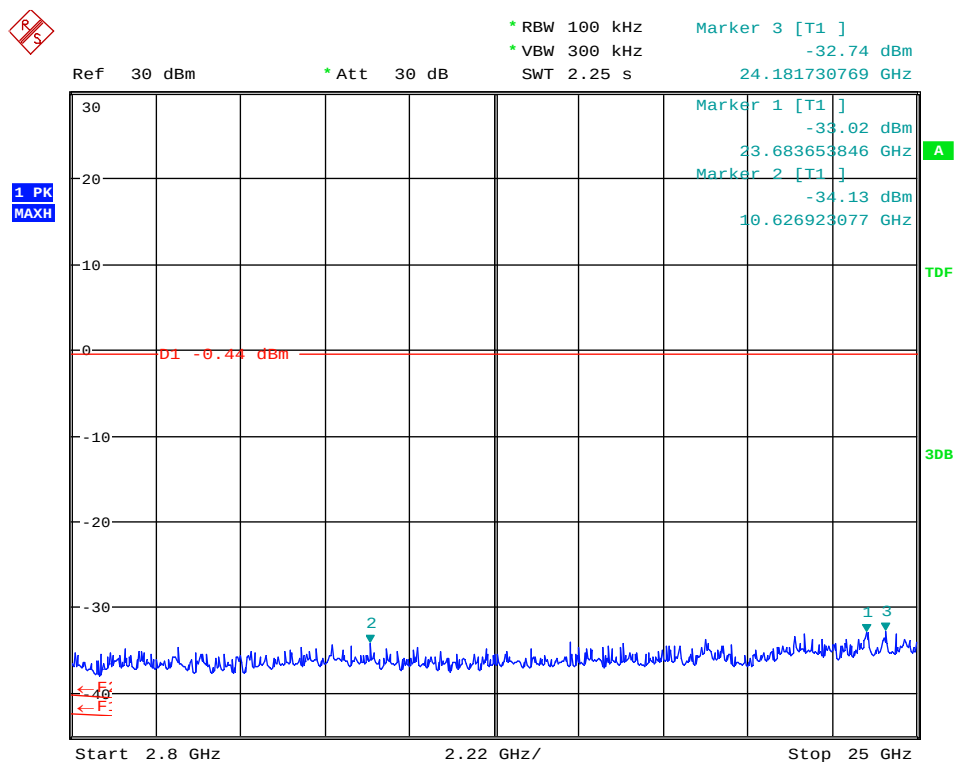
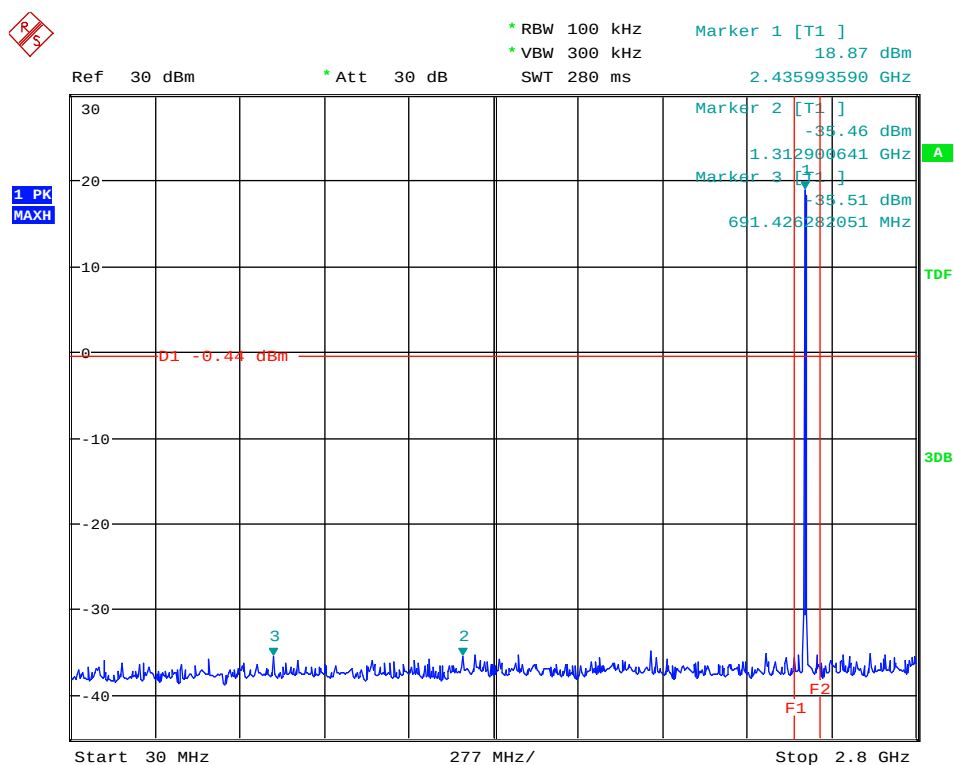
Plot 128: 20dBc-RCM24G-MSK-250Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

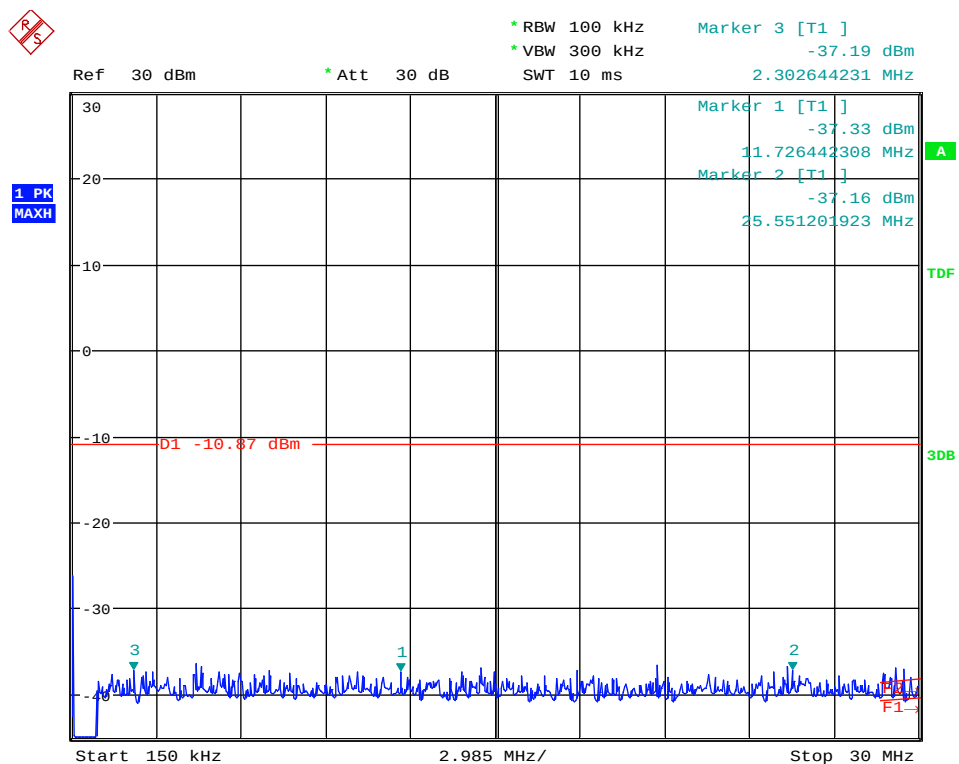
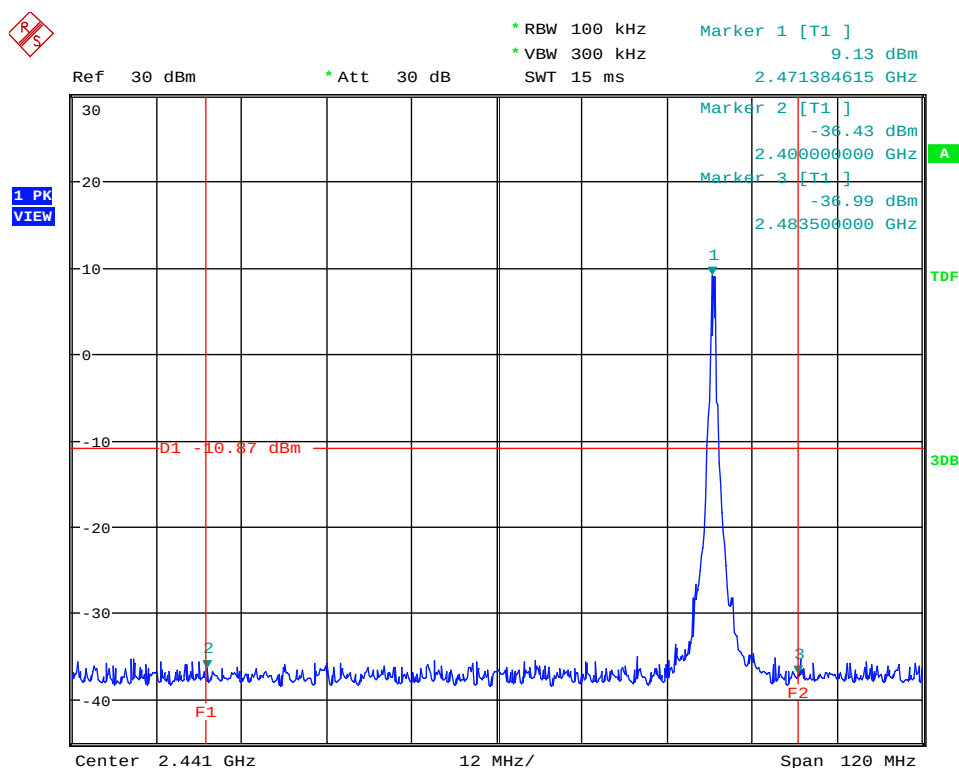
1.7.4. MSK-Data Rate 500Kbps

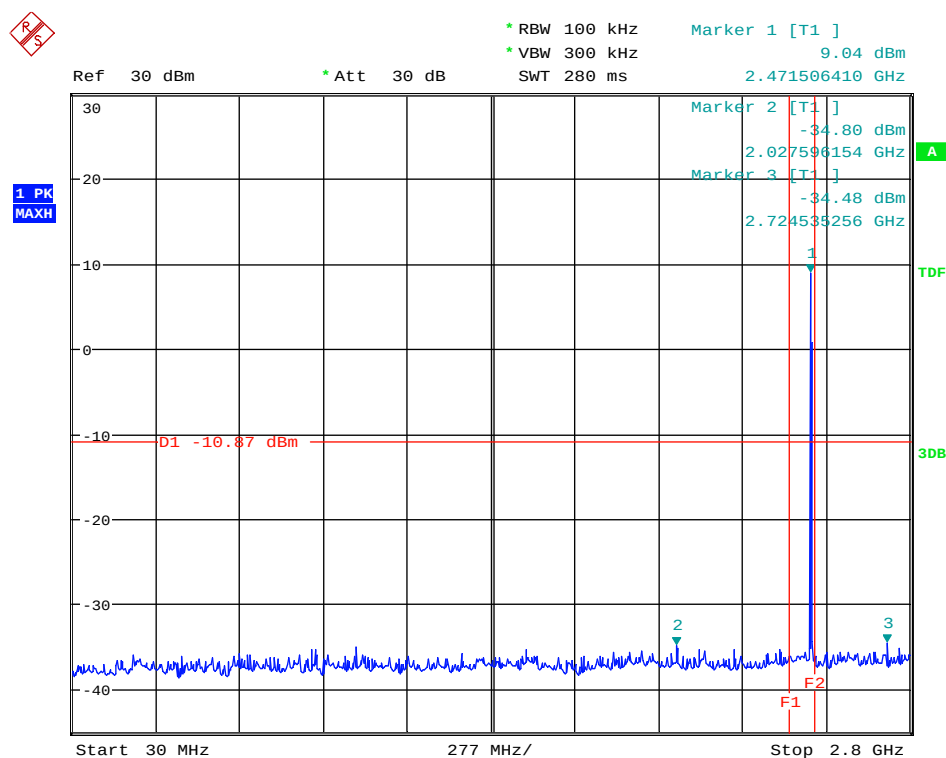




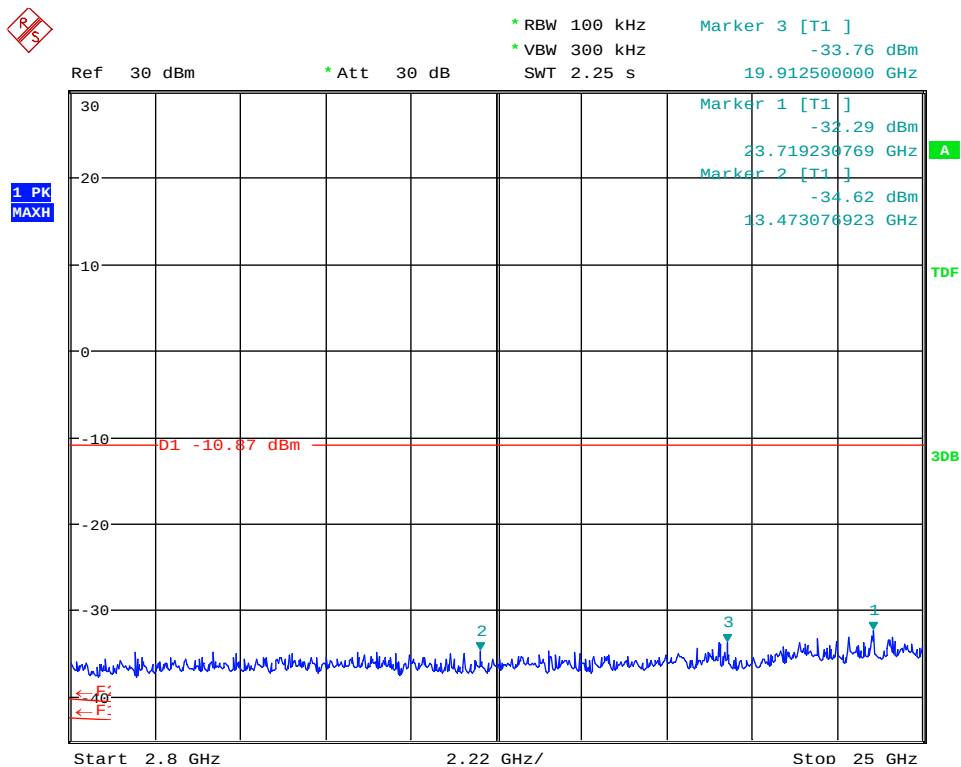




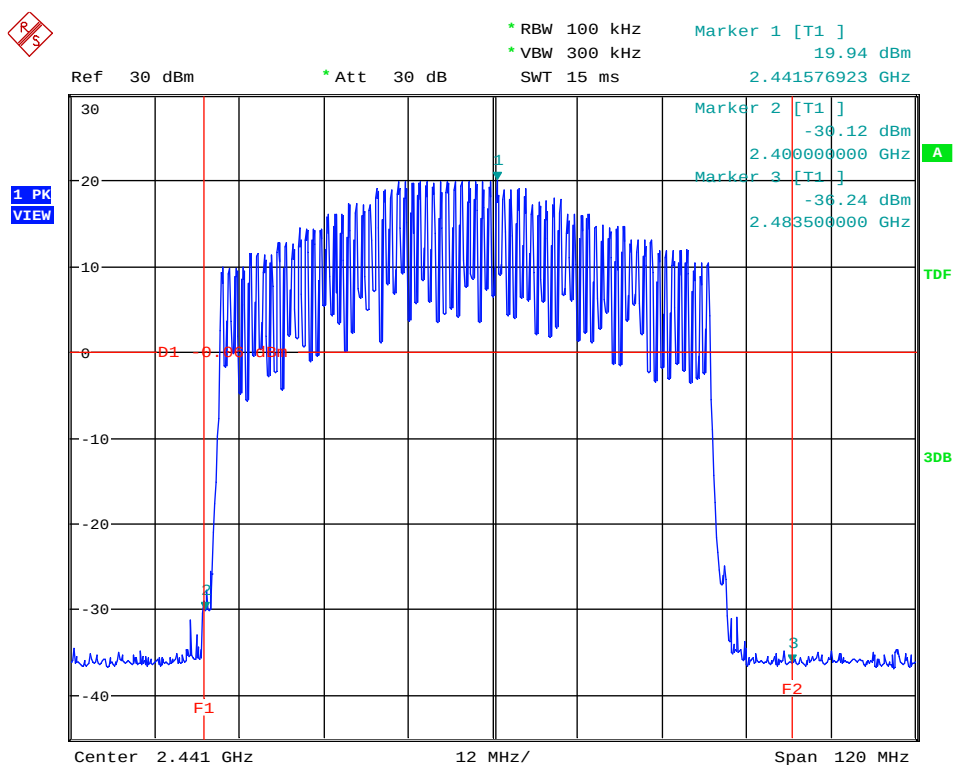




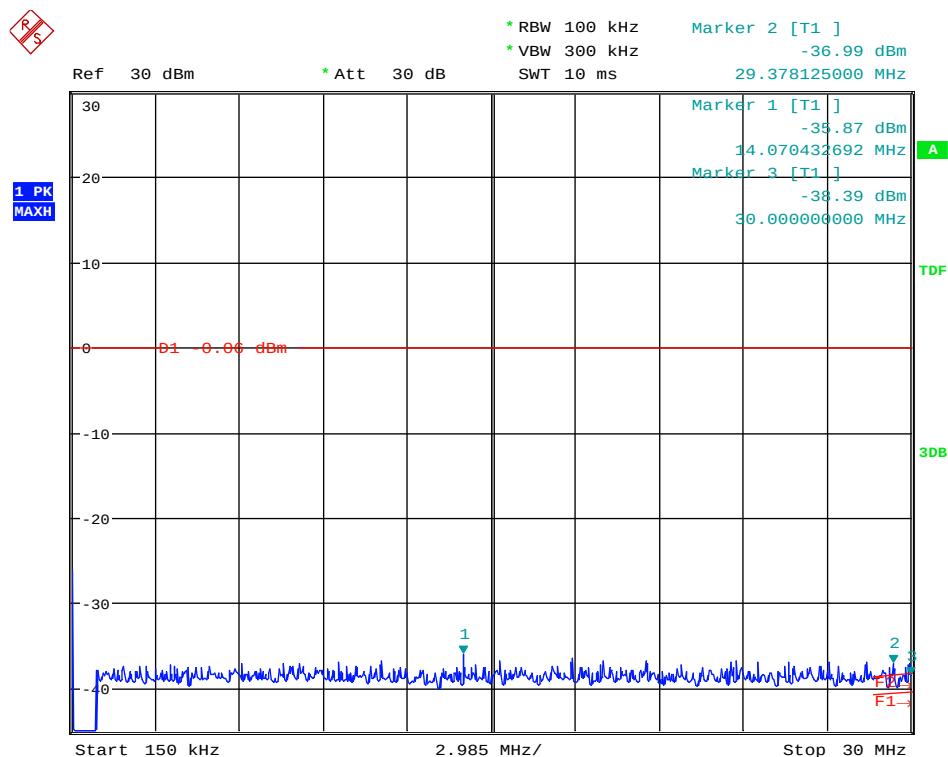
Plot 139: 20dBc-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm-30MHz-2.8GHz



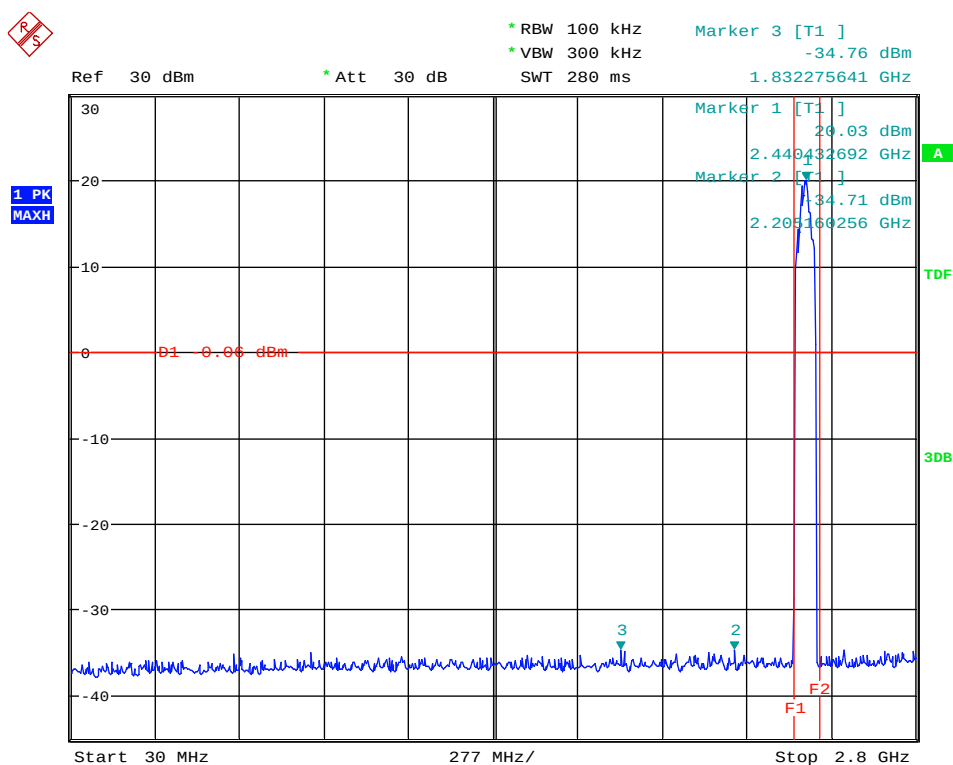
Plot 140: 20dBc-RCM24G-MSK-500Kbps-Ch69(2471.5 MHz)-PWR+12dBm-2.8GHz-25GHz



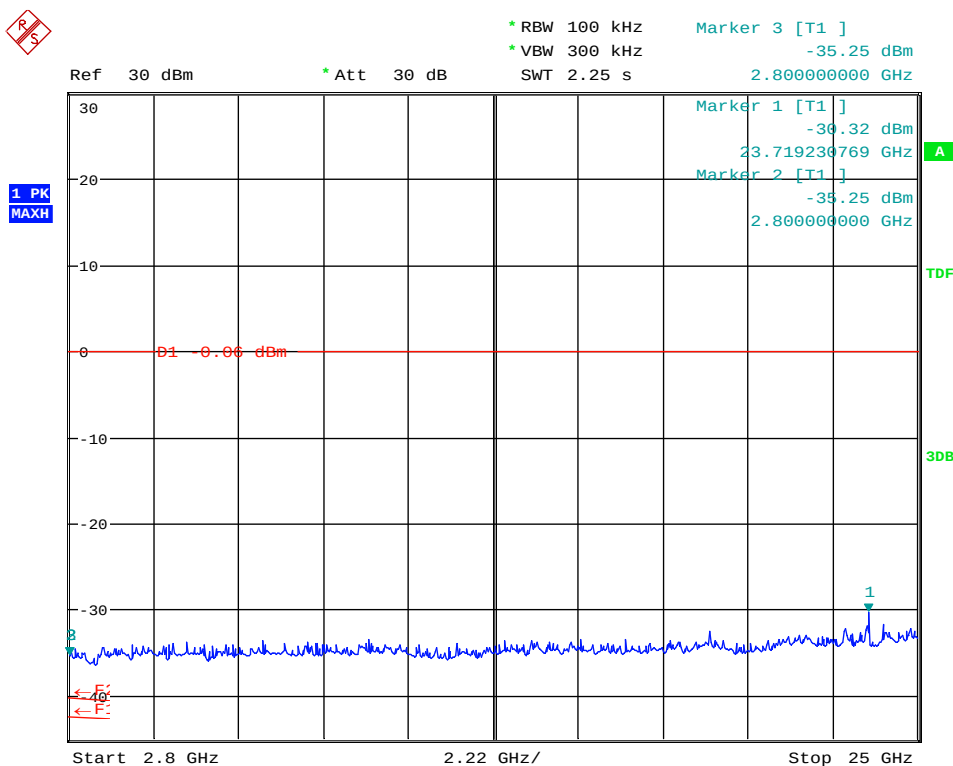
Plot 141: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-Carrier



Plot 142: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-0.15MHz-30MHz



Plot 143: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-30MHz-2.8GHz



Plot 144: 20dBc-RCM24G-MSK-500Kbps-Hopping Mode-Ch0(2402.5 MHz) to Ch69(2471.5 MHz)-2.8GHz-25GHz

Radiated Field Strength Measurements

**RCM24G
+
PRESTTA Antenna**

2. Radiated Field Strength Measurements- RCM24G + PRESTTA Antenna

2.1. Radiated Field Strength Emissions - 9kHz to 30MHz

2.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12 dBm

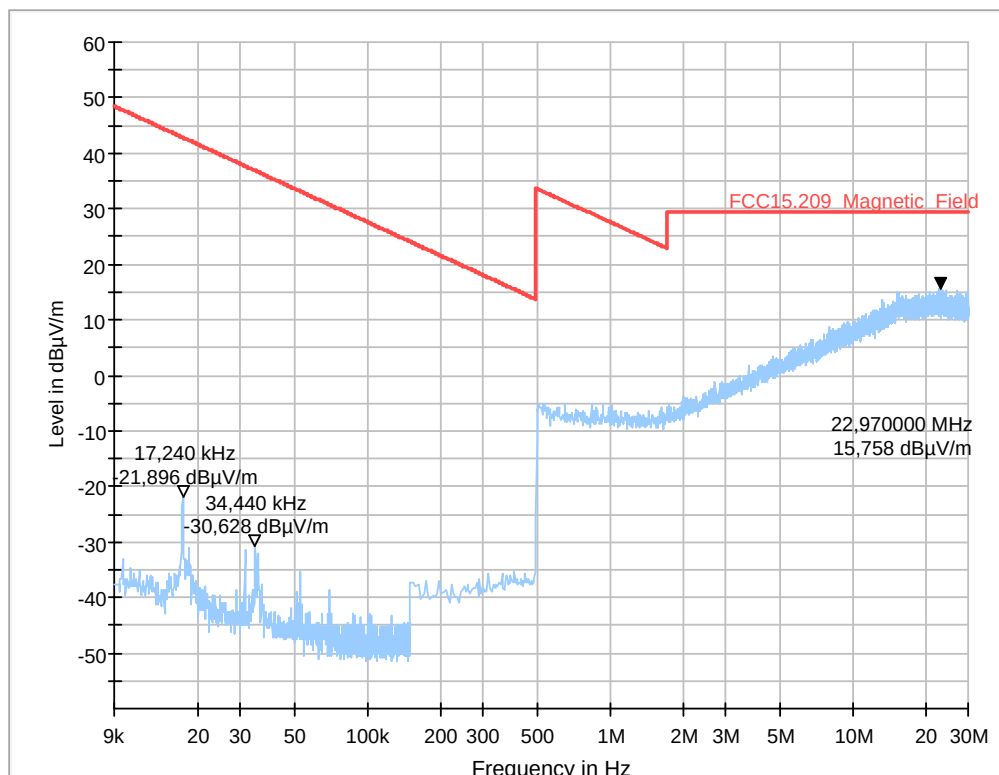
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

Common Information

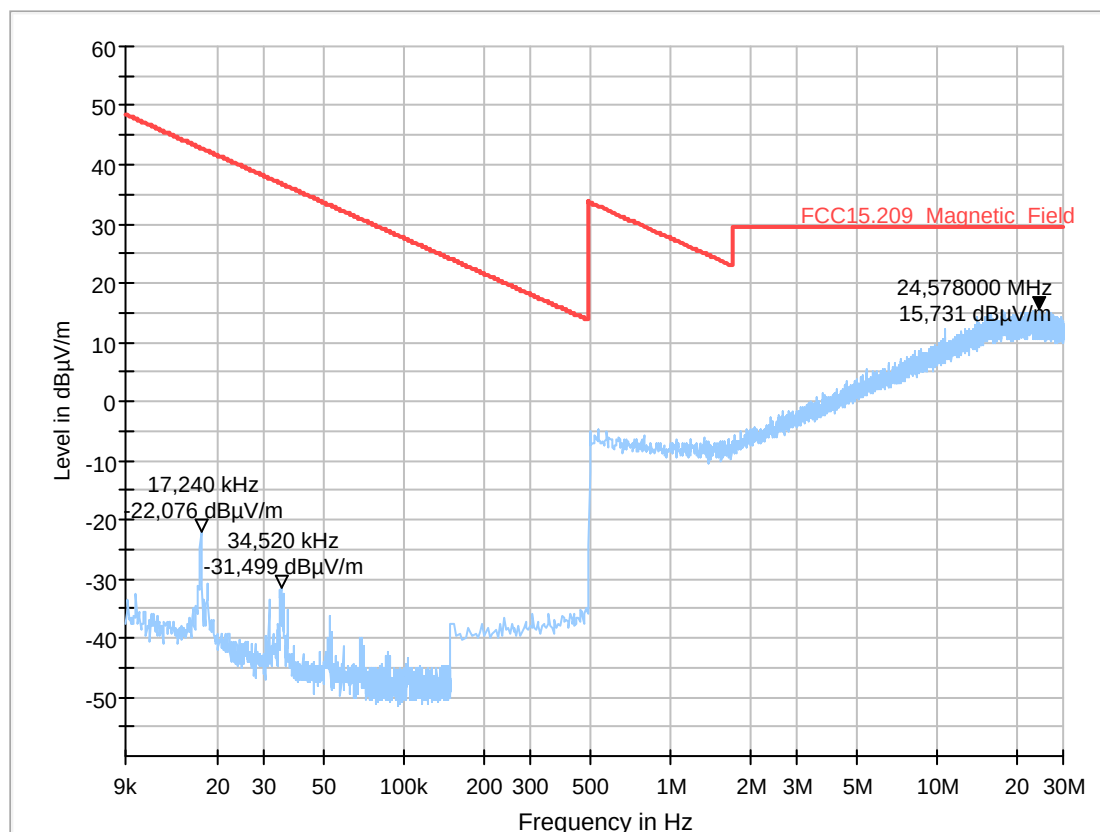
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12dBm

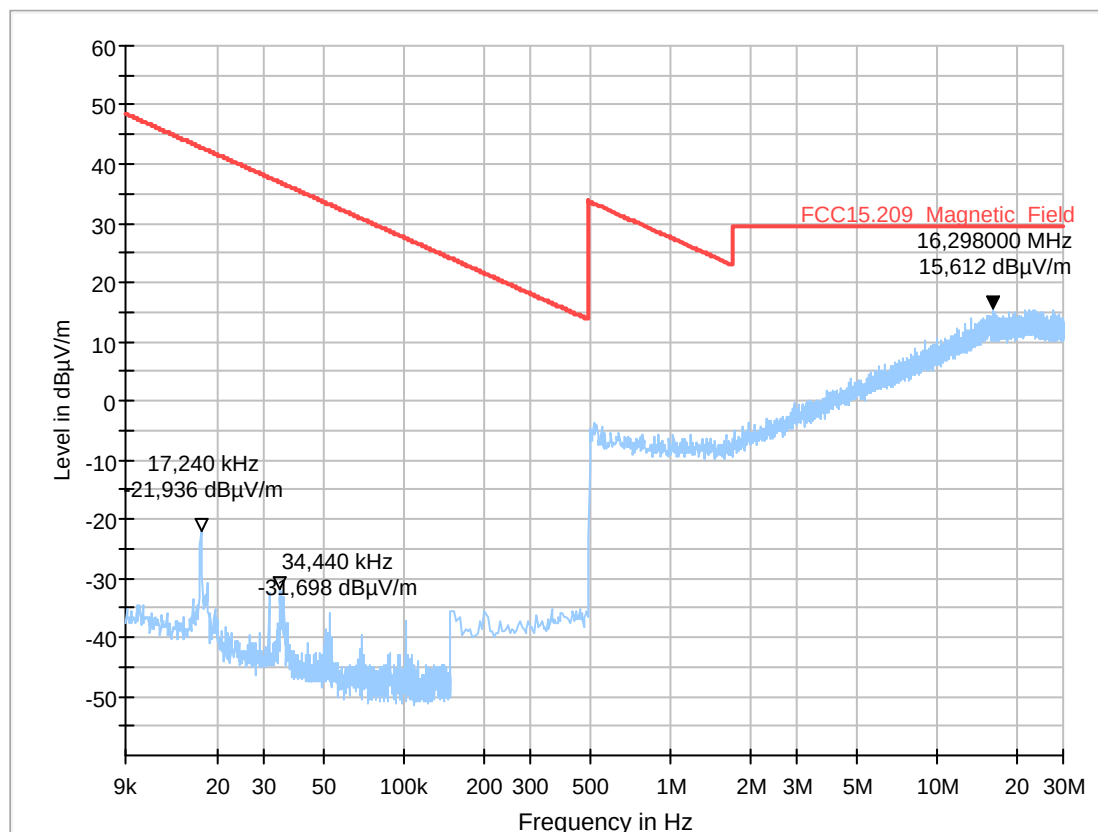
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

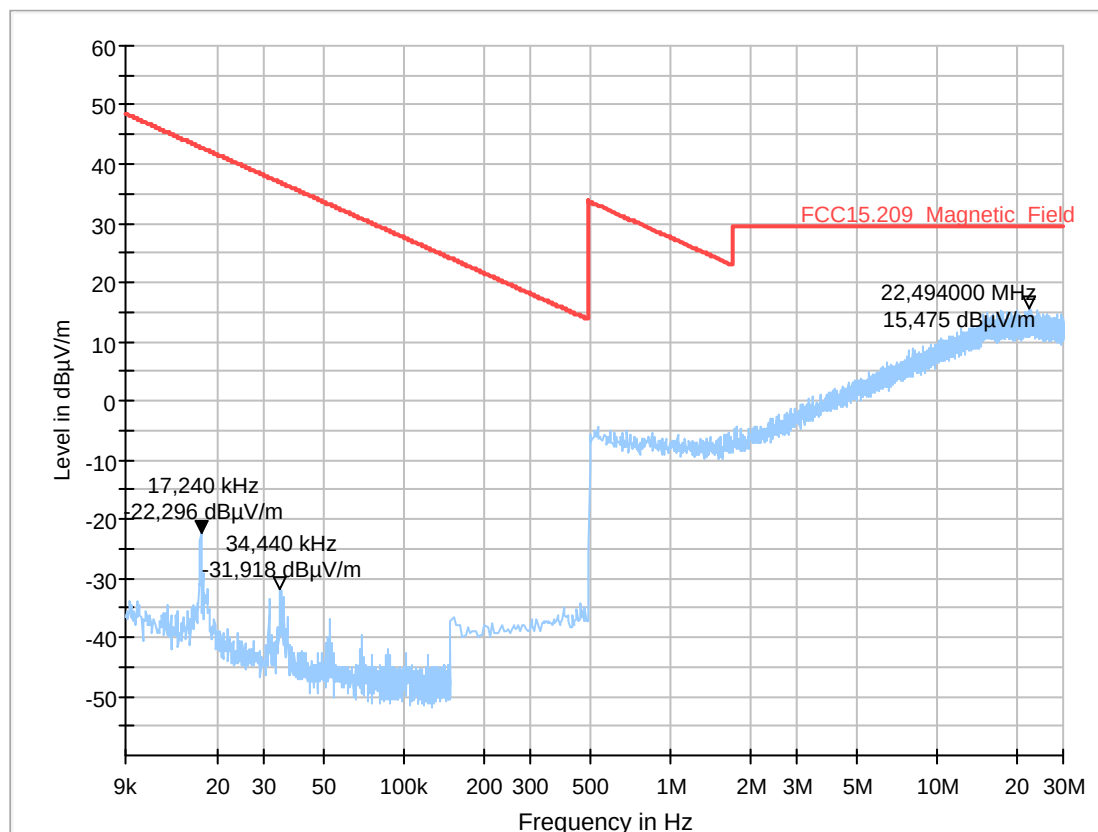
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated)
	Power:+21dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.2. Radiated Field Strength Emissions - 30MHz to 1GHz

3.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm

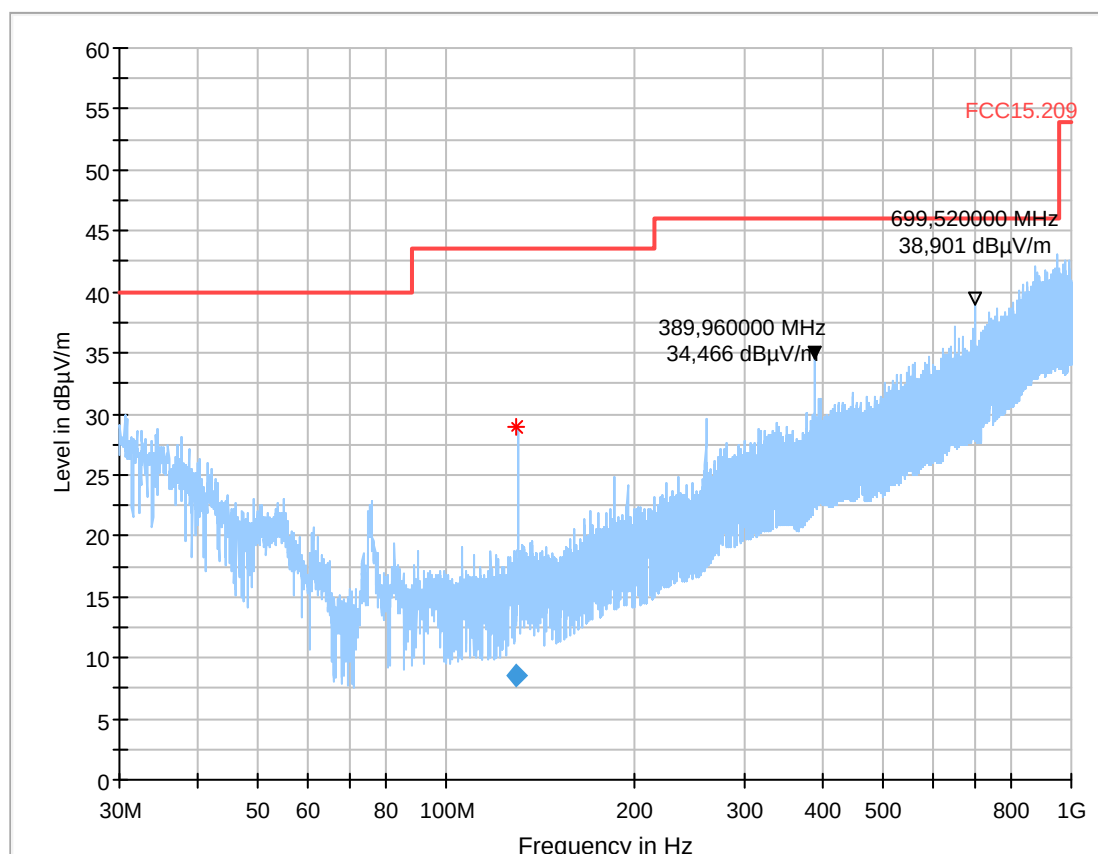
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm 3.6 V DC (direct to RCM24G) using Laboratory Power Supply
Power during tests:	

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
129.864000	8.50	43.50	35.00	1000.0	120.000	183.0	H	163.0	0.0	9.0

3.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

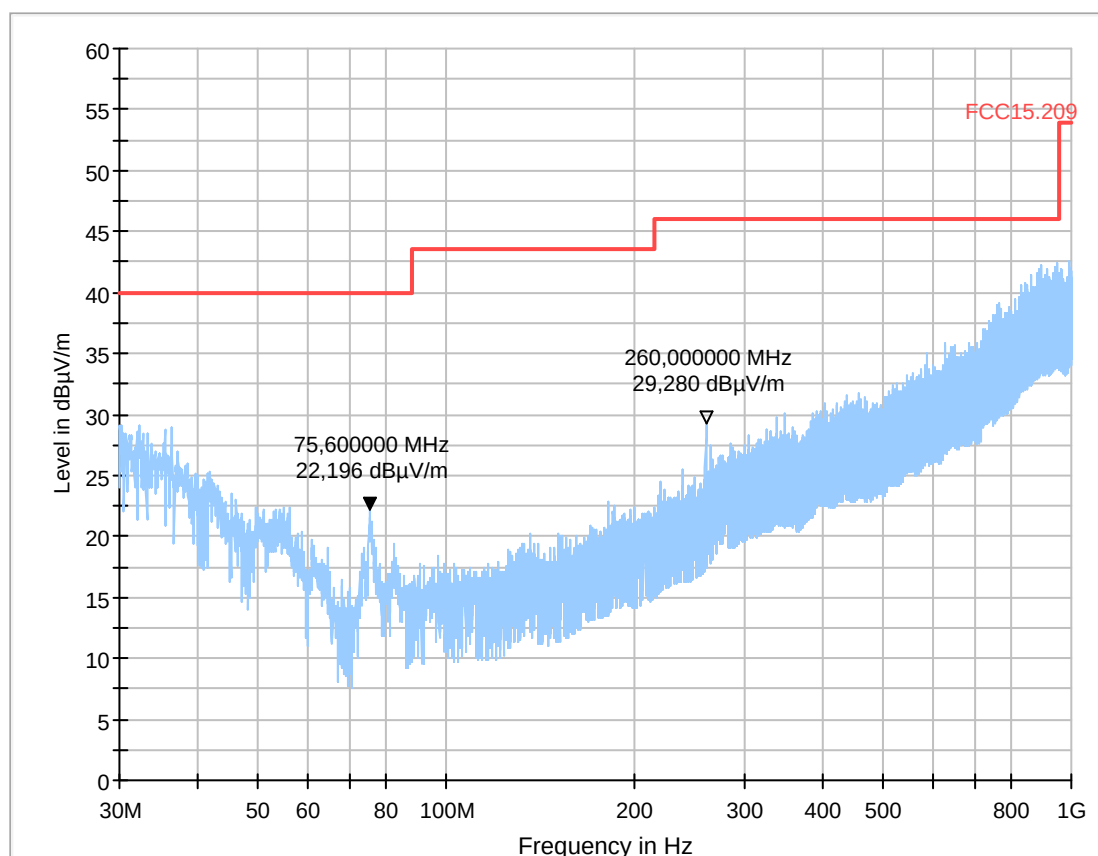
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	RI
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



3.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12dBm

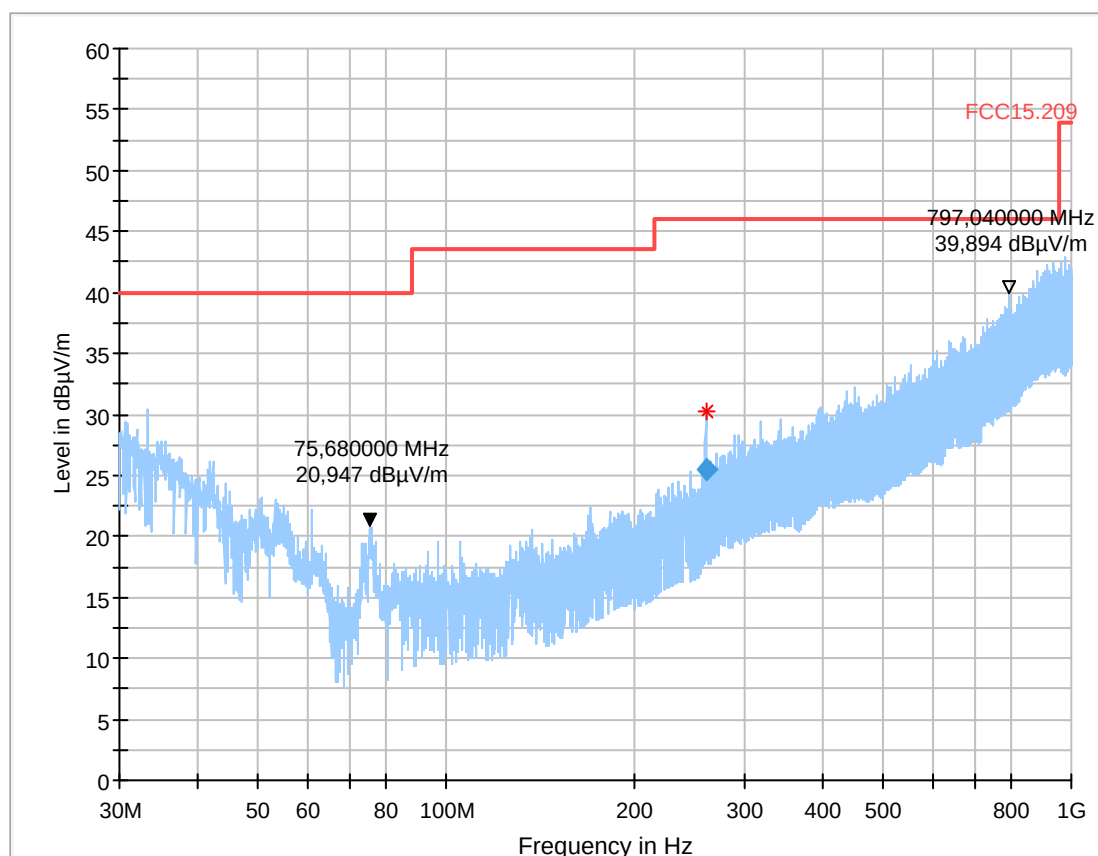
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	YSa
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated)
	Power: +12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
259.996000	25.42	46.00	20.58	1000.0	120.000	125.0	H	-1.0	0.0	13.7

3.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

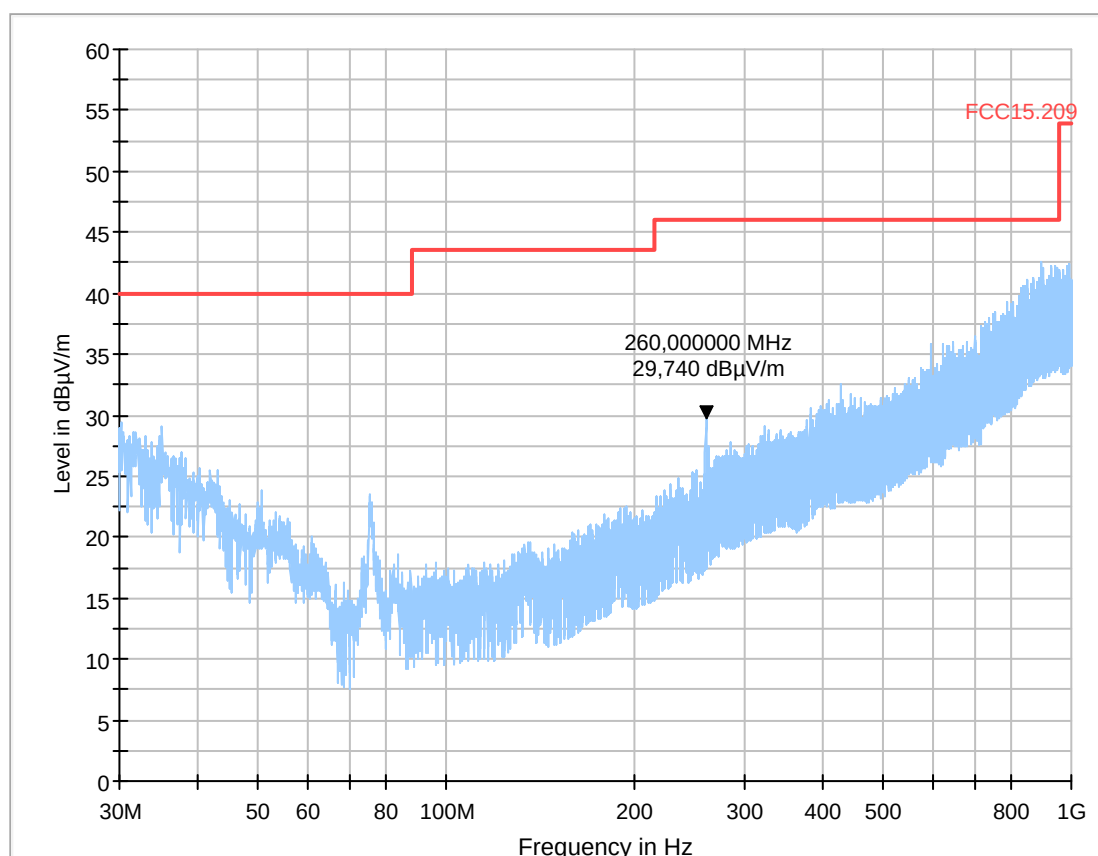
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.205 , FCC 15.209 Intentional Radiator / RSS-Gen, Issue 4
Operator:	YSa
Operating conditions:	TX-Continuous RCM24G+Prestta Antenna MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.3. Radiated Field Strength Emissions - 1GHz to 18GHz

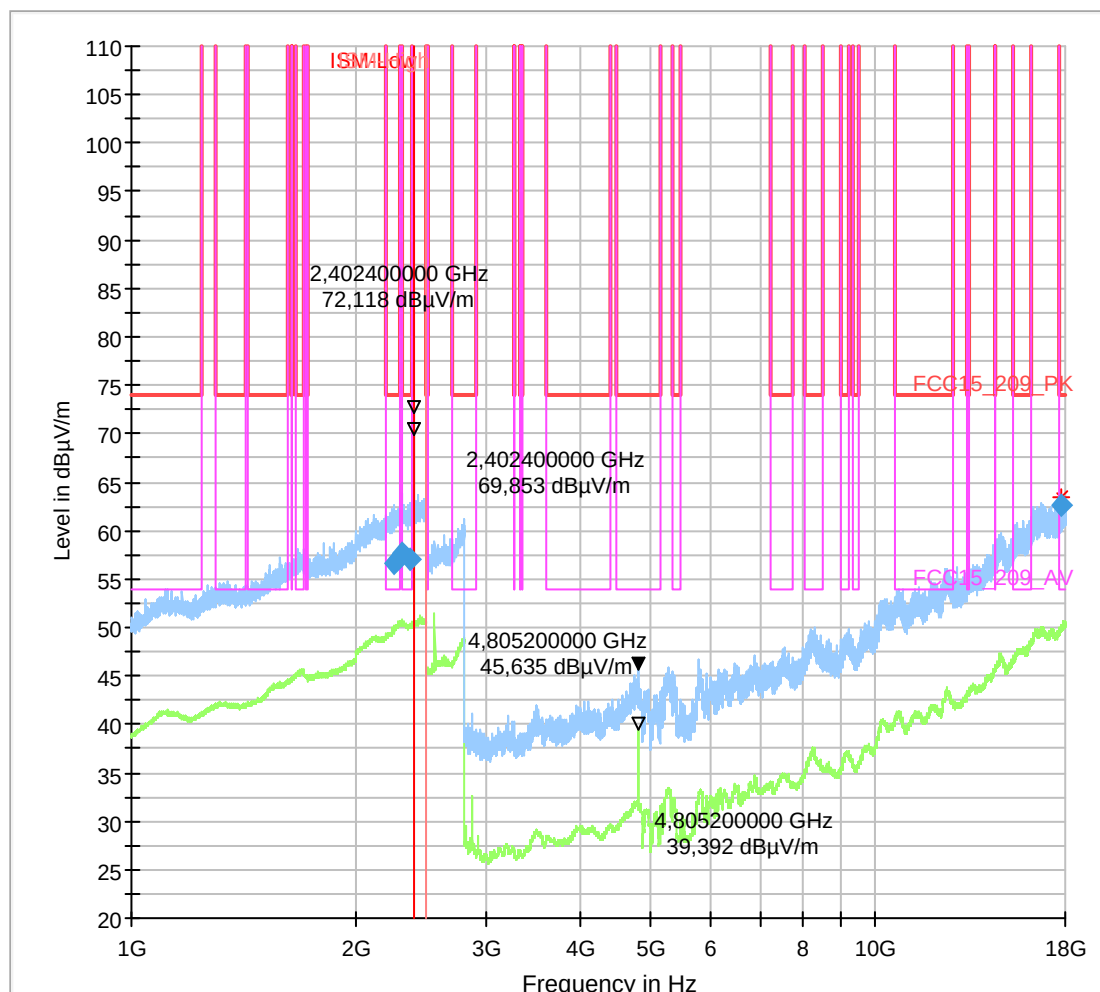
4.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm

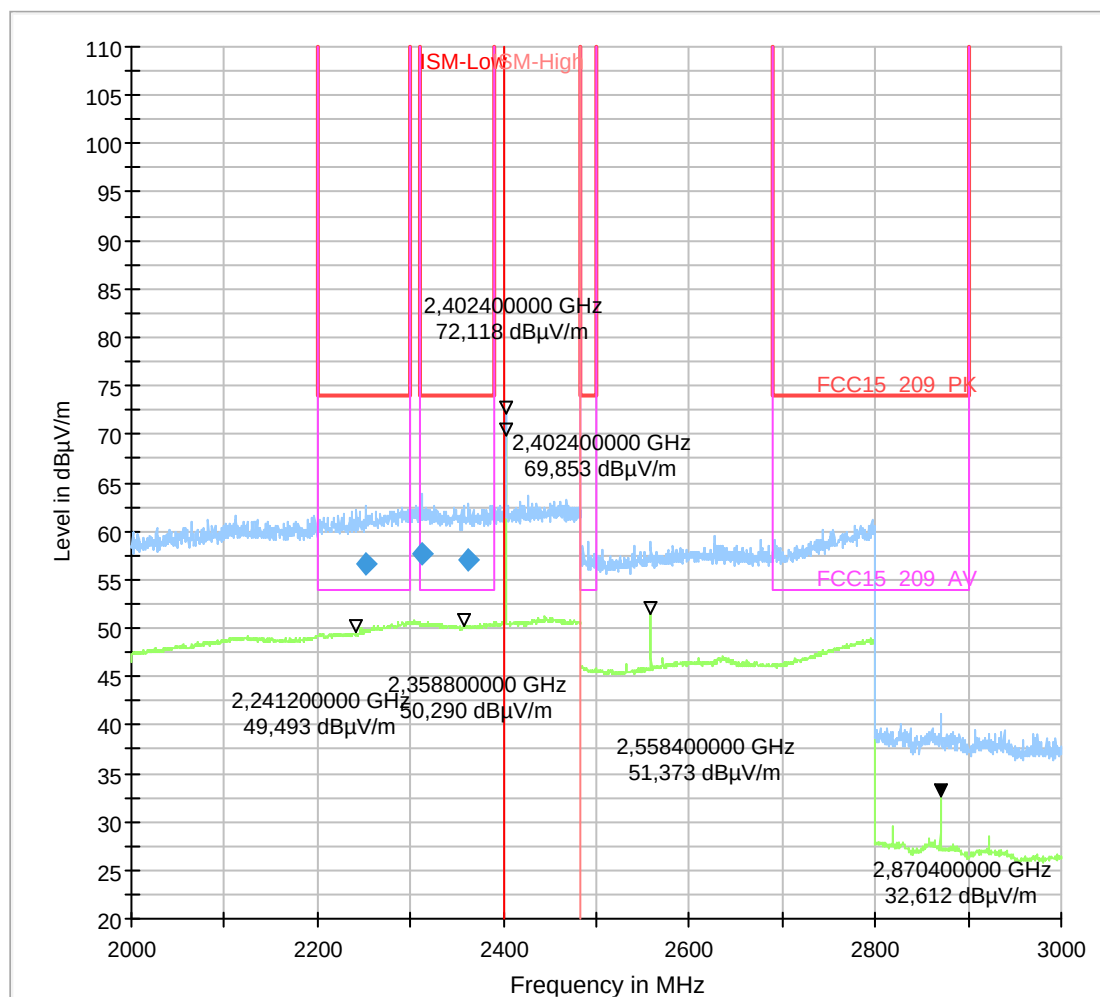
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm Aph/ PSa
Operator Name:	
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2251.880000	56.56	74.00	17.44	100.0	1000.000	155.0	H	90.0	90.0	34.8
2311.520000	57.66	74.00	16.34	100.0	1000.000	155.0	H	156.0	90.0	35.7
2362.560000	57.10	74.00	16.90	100.0	1000.000	155.0	V	71.0	0.0	35.6
17768.560000	62.58	74.00	11.42	100.0	1000.000	155.0	V	190.0	0.0	25.8

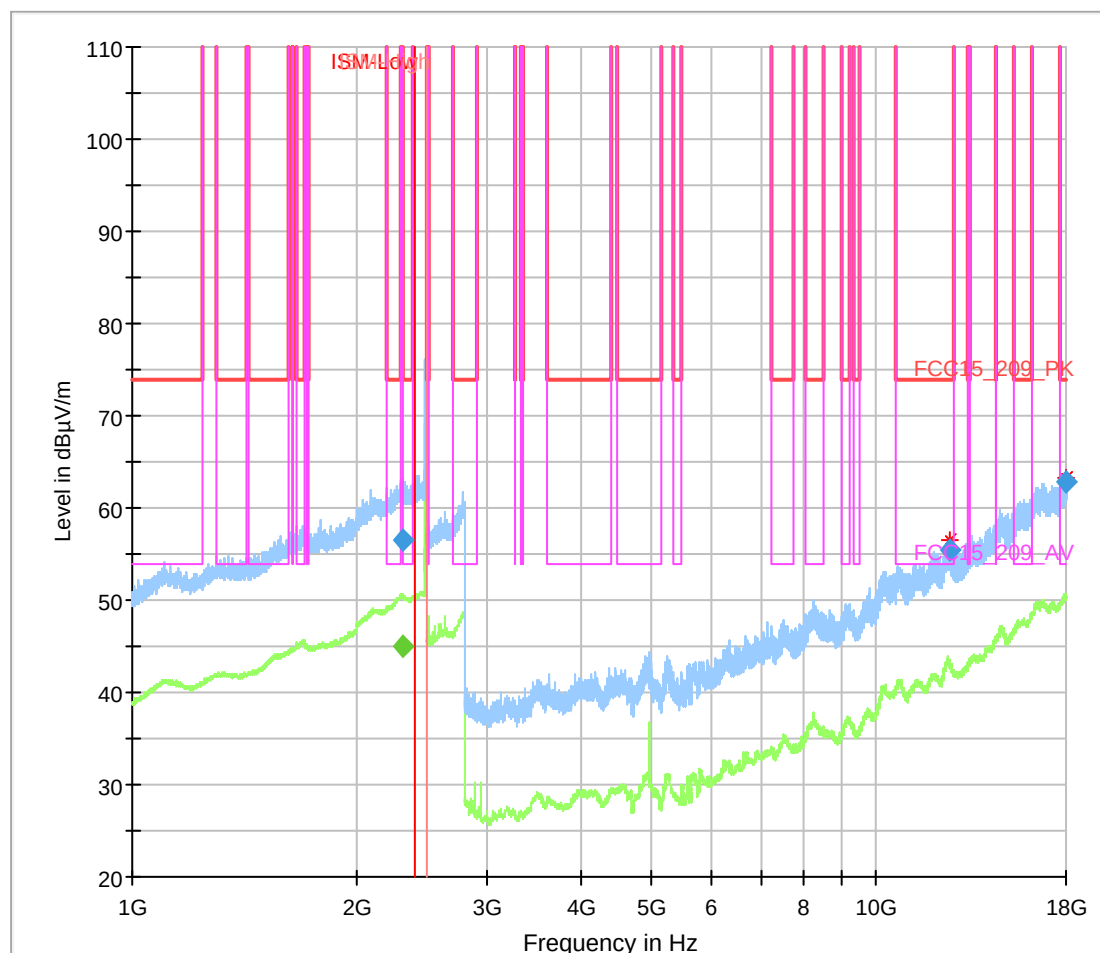
4.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

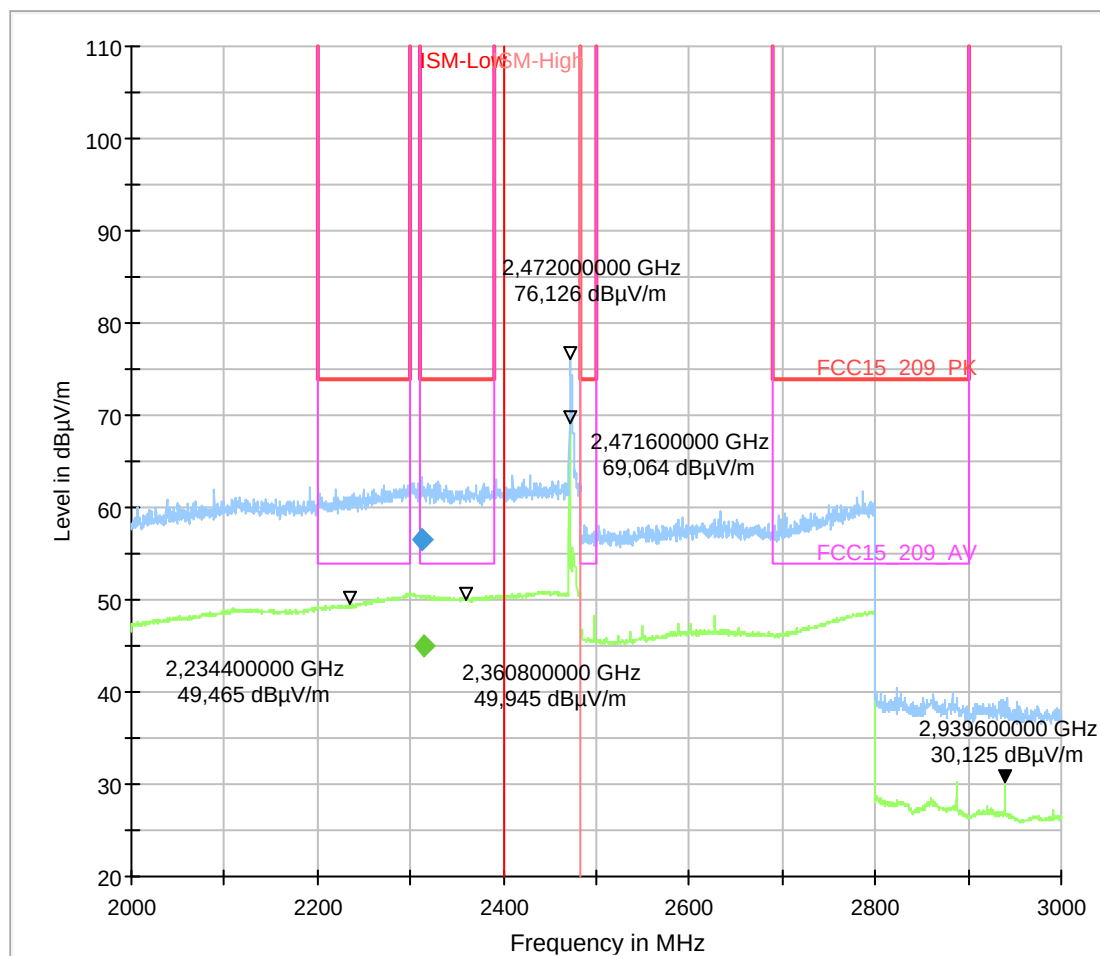
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
Operator Name:	MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Measurements performed :	APh/ PSa with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)
2313.360000	56.60	---	74.00	17.40	100.0	1000.000	155.0
2314.440000	---	45.00	54.00	9.00	100.0	1000.000	155.0
12565.200000	55.35	---	74.00	18.65	100.0	1000.000	155.0
17968.400000	62.90	---	74.00	11.10	100.0	1000.000	155.0

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

Frequency (MHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2313.360000	V	229.0	90.0	35.7
2314.440000	V	334.0	90.0	35.7
12565.200000	V	302.0	90.0	19.4
17968.400000	H	236.0	0.0	26.4

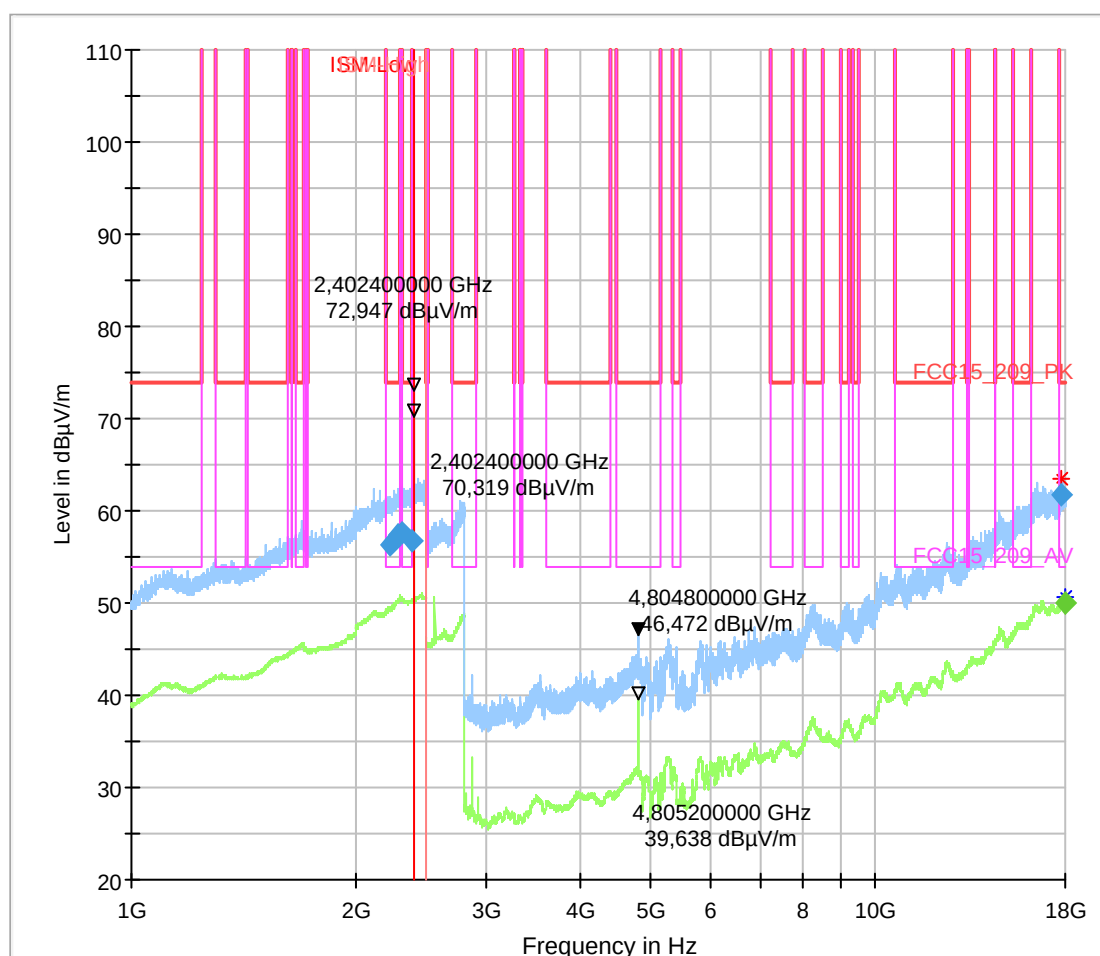
4.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12 dBm

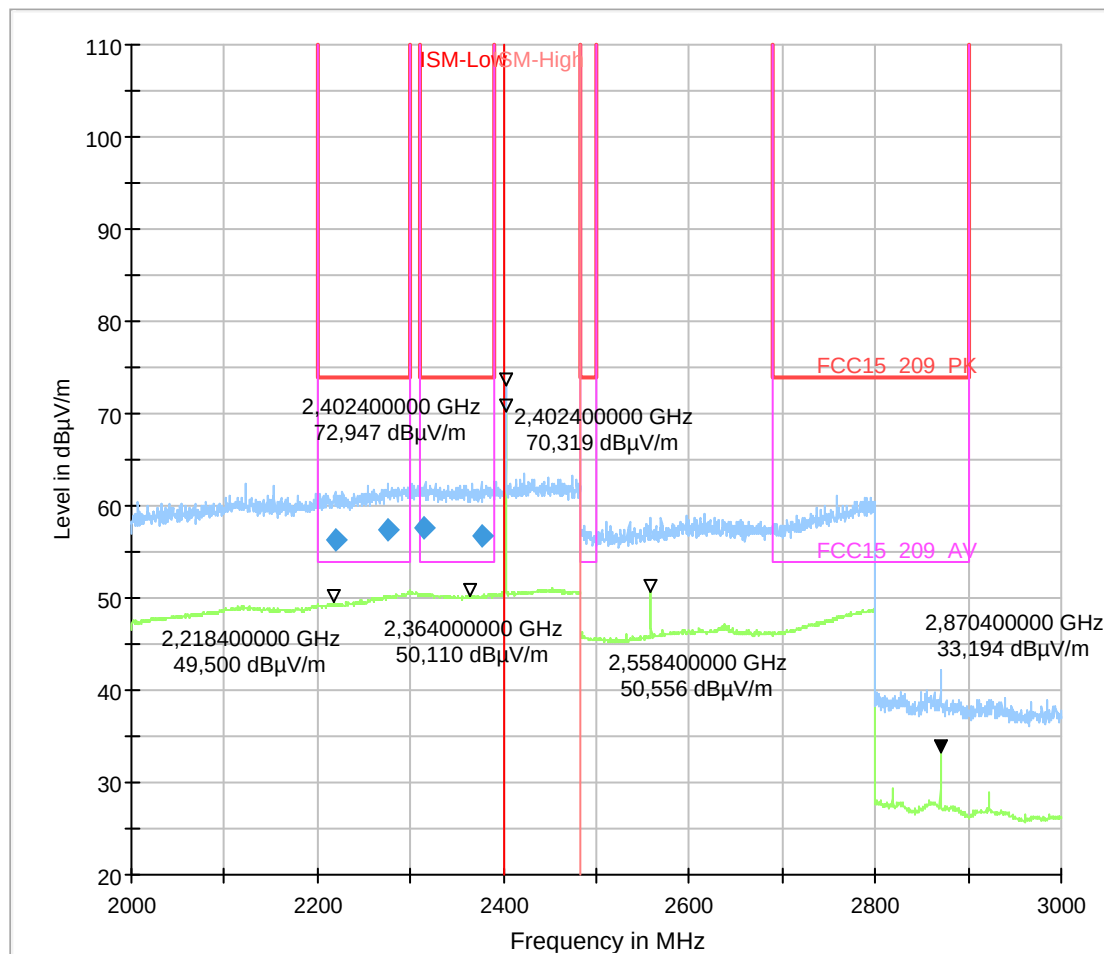
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	PSa
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)
2219.280000	56.40	---	74.00	17.60	100.0	1000.000	155.0
2275.960000	57.33	---	74.00	16.67	100.0	1000.000	155.0
2315.240000	57.68	---	74.00	16.32	100.0	1000.000	155.0
2377.240000	56.77	---	74.00	17.23	100.0	1000.000	155.0
17795.640000	61.72	---	74.00	12.28	100.0	1000.000	155.0
17948.080000	---	49.94	54.00	4.06	100.0	1000.000	155.0

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

Frequency (MHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2219.280000	H	165.0	0.0	35.0
2275.960000	V	34.0	0.0	35.2
2315.240000	H	93.0	90.0	35.7
2377.240000	H	295.0	0.0	35.5
17795.640000	V	153.0	0.0	25.9
17948.080000	H	181.0	0.0	26.3

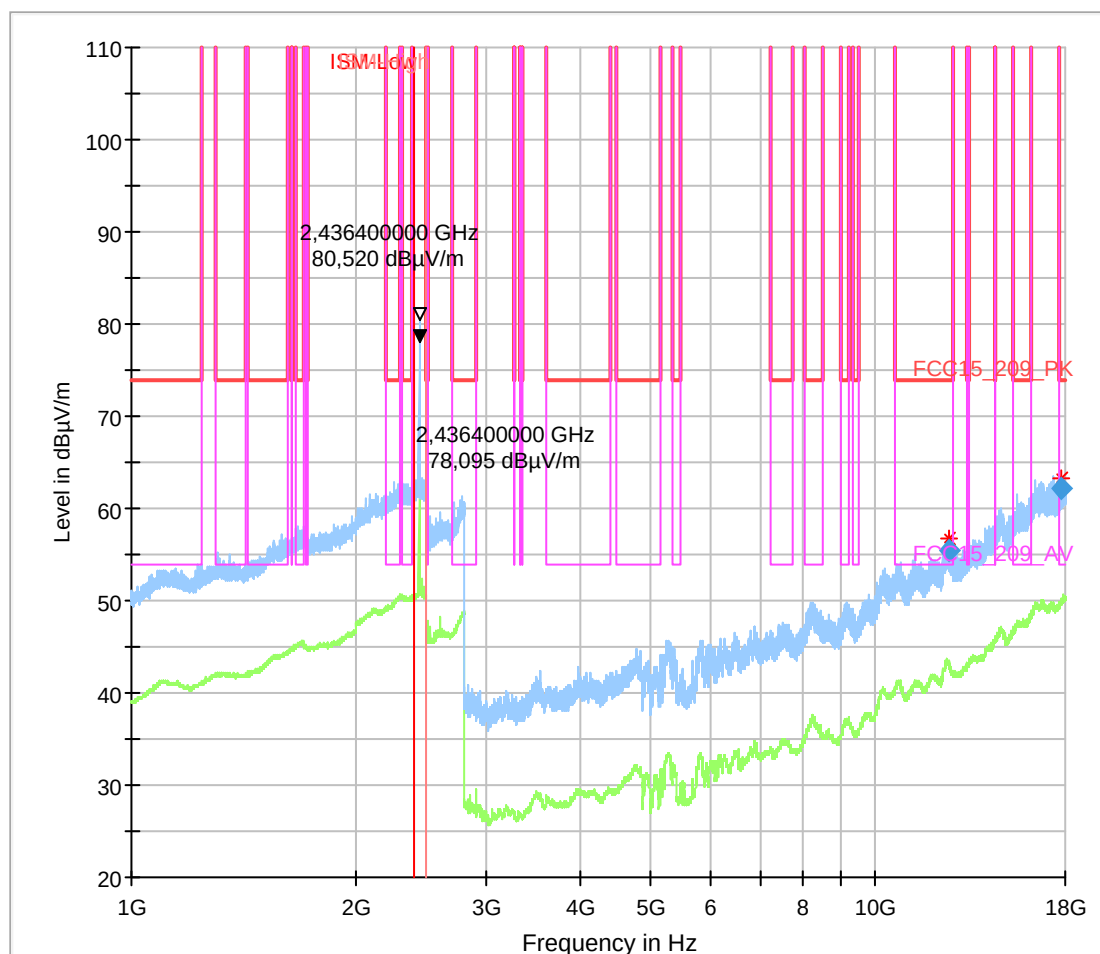
4.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

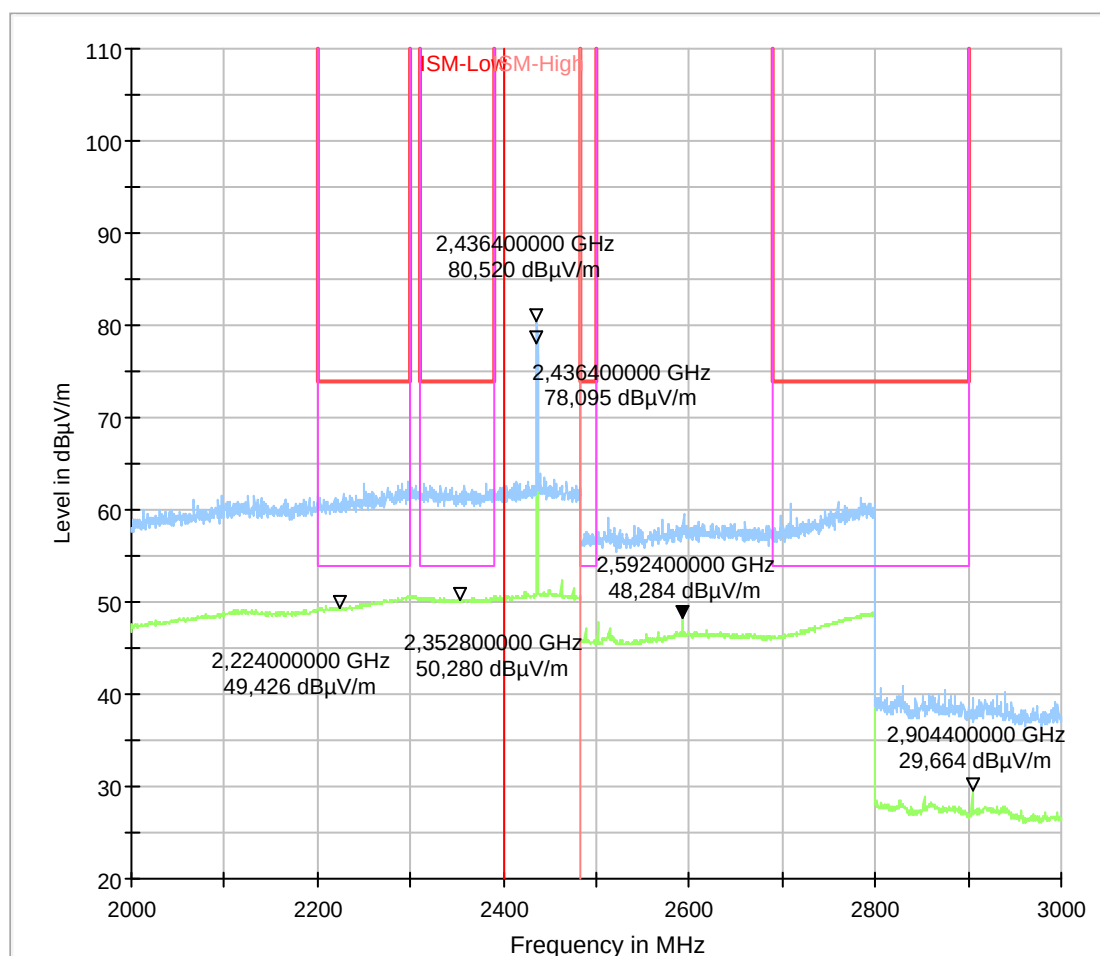
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm
Operator Name:	APh/ PSa
Measurements performed :	with 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply





Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
12524.920000	55.40	74.00	18.60	100.0	1000.000	155.0	V	20.0	0.0	19.7
17826.920000	62.08	74.00	11.92	100.0	1000.000	155.0	V	11.0	0.0	26.0

2.4. Radiated Field Strength Emissions - 18GHz to 25GHz

4.01a_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm

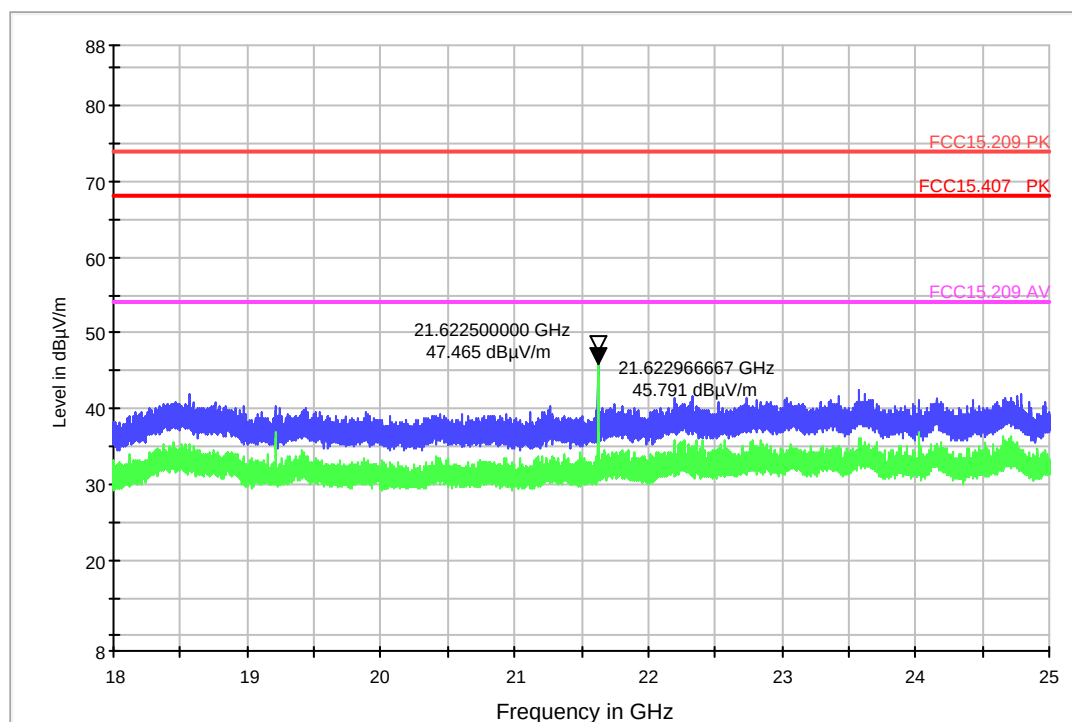
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



4.02a_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm

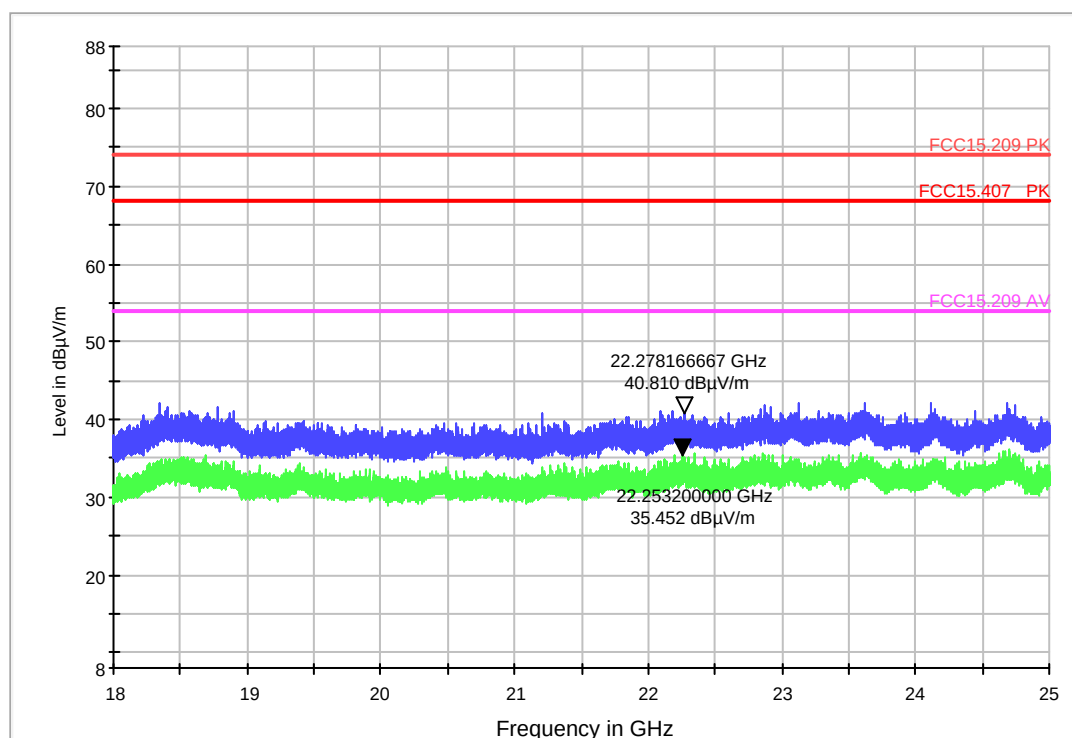
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



4.03a_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12dBm

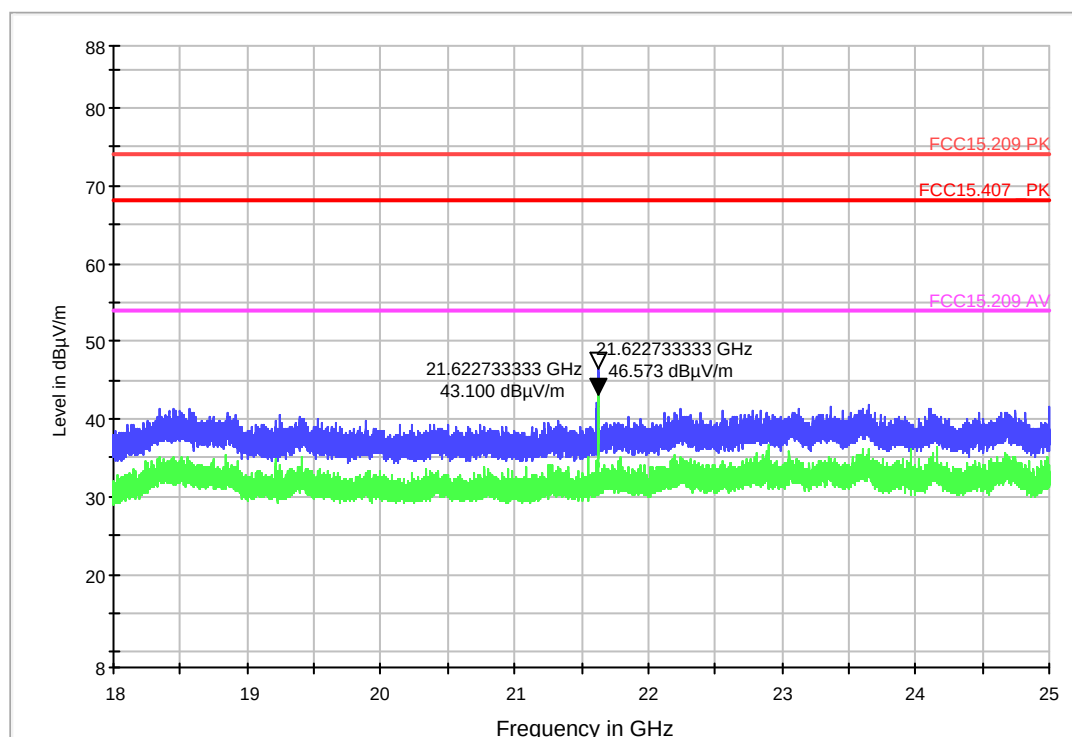
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



4.04a_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm

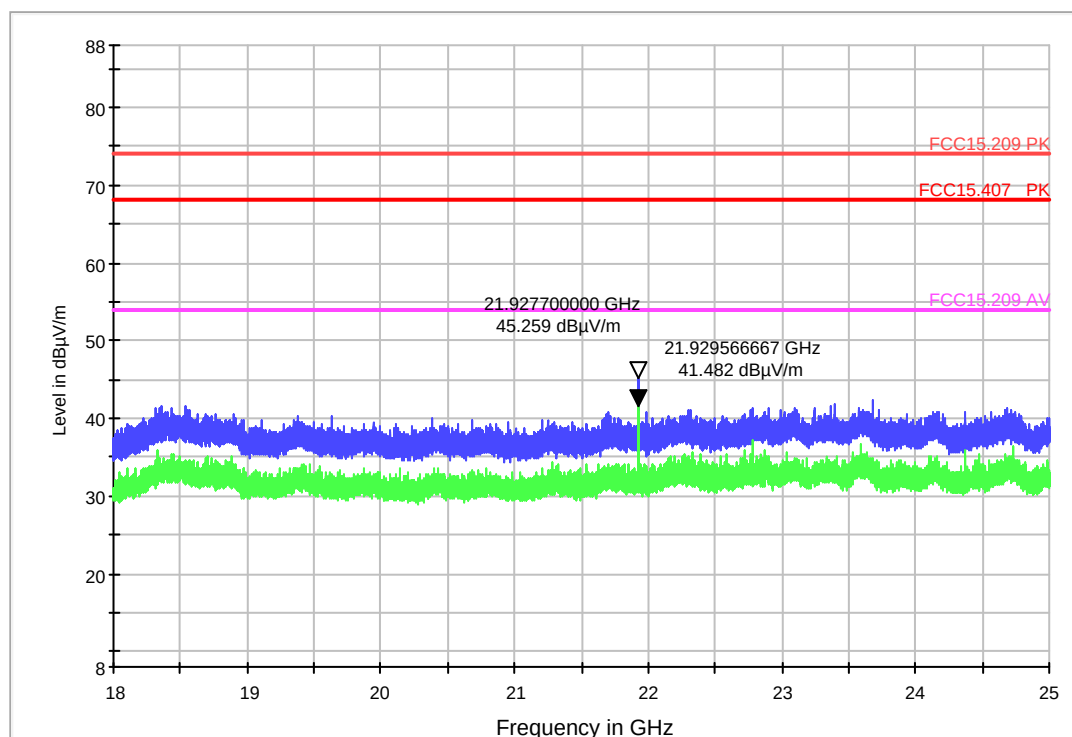
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+Prestta Antenna
	MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated)
	Power:+21dBm
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

FCC_Sweep_15.247_18_25GHz_Pre



2.5. Radiated Band-Edge Measurements

2.5.1. Low Channel 2402.5 MHz (2.4 GHz ISM: left band edge)

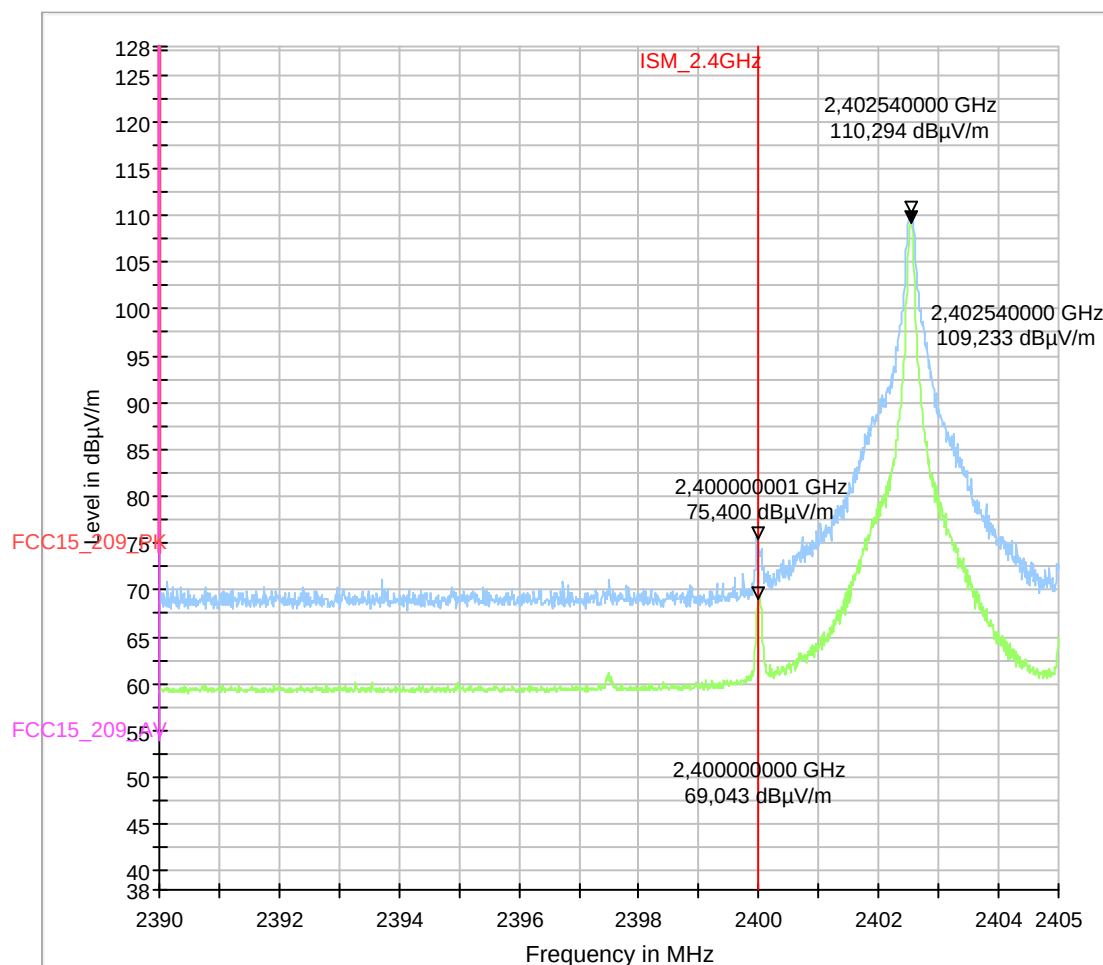
9.01_BE-RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 50 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12 dBm
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3

4.01_RCM24G+PRESTTA Ant-MSK-50Kbps-Ch0-PWR +12dBm]

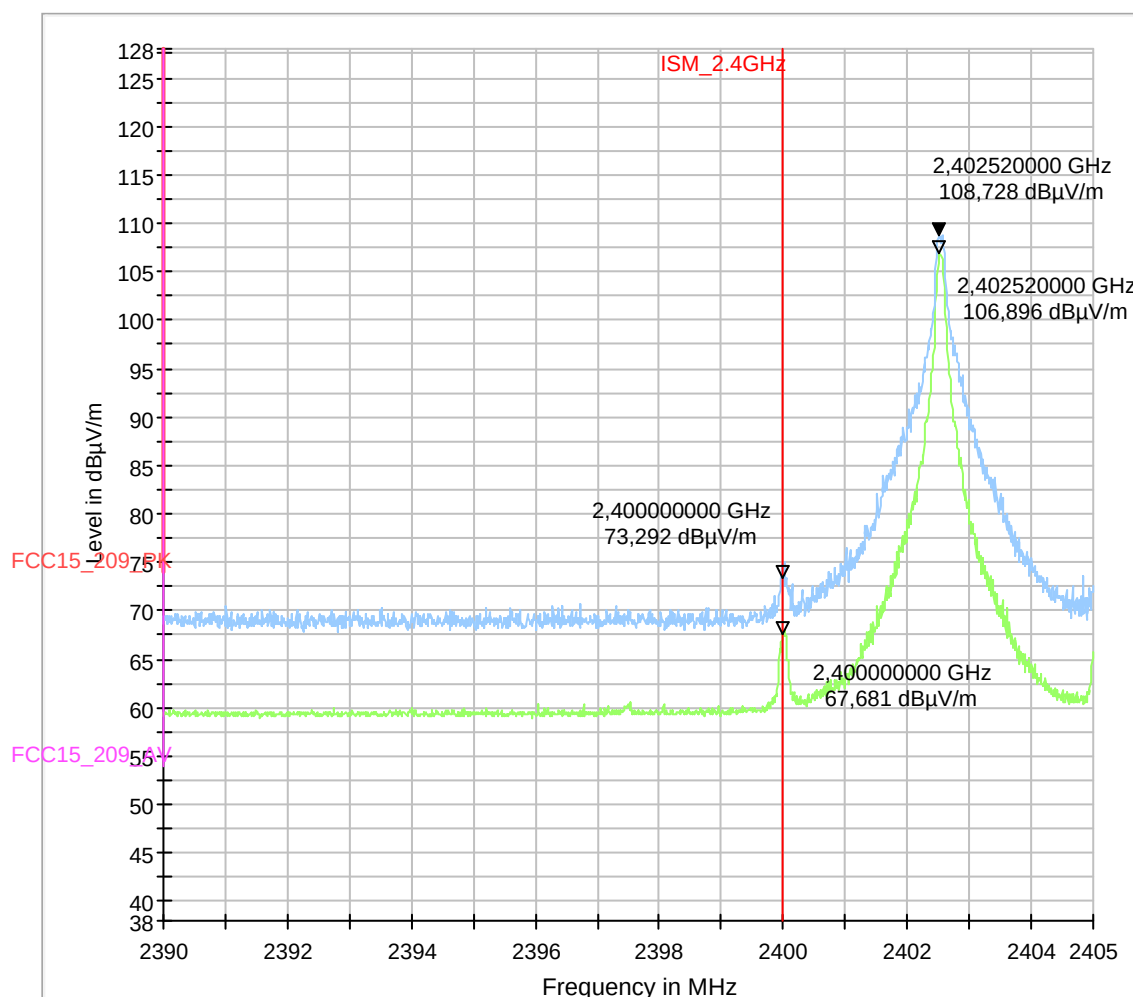
9.03_BE-RCM24G+PRESTTA Ant-MSK-100Kbps- Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 100 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12 dBm
	Afr
Operator Name:	

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3
4.02_RCM24G+PRESTTA Ant-MSK-100Kbps-Ch69-PWR+12dBm]

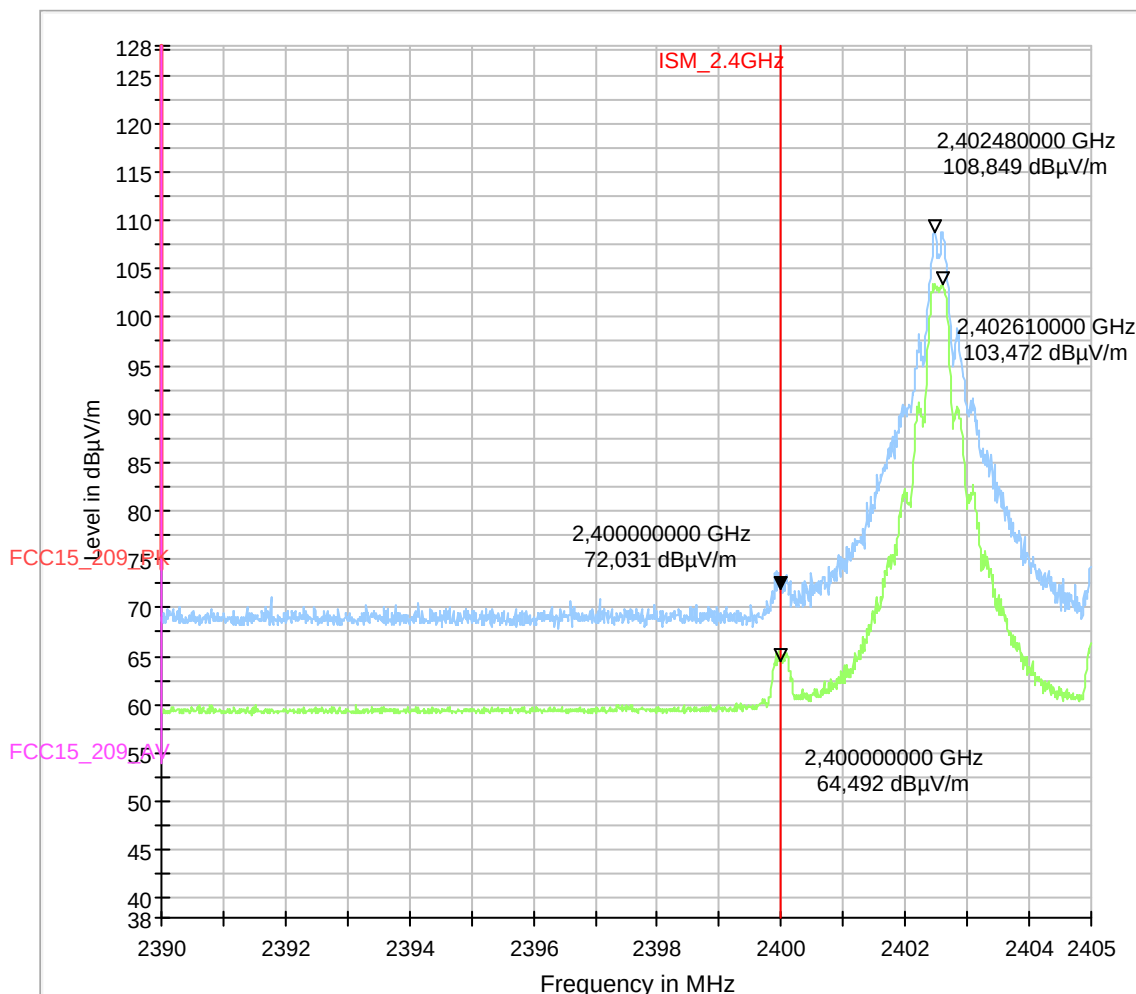
9.05_BE-RCM24G+PRESTTA Ant-MSK-250Kbps- Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12 dBm
	AFr
Operator Name:	

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3
4.03_RCM24G+PRESTTA Ant-MSK-250Kbps-Ch0-PWR +12 dBm]

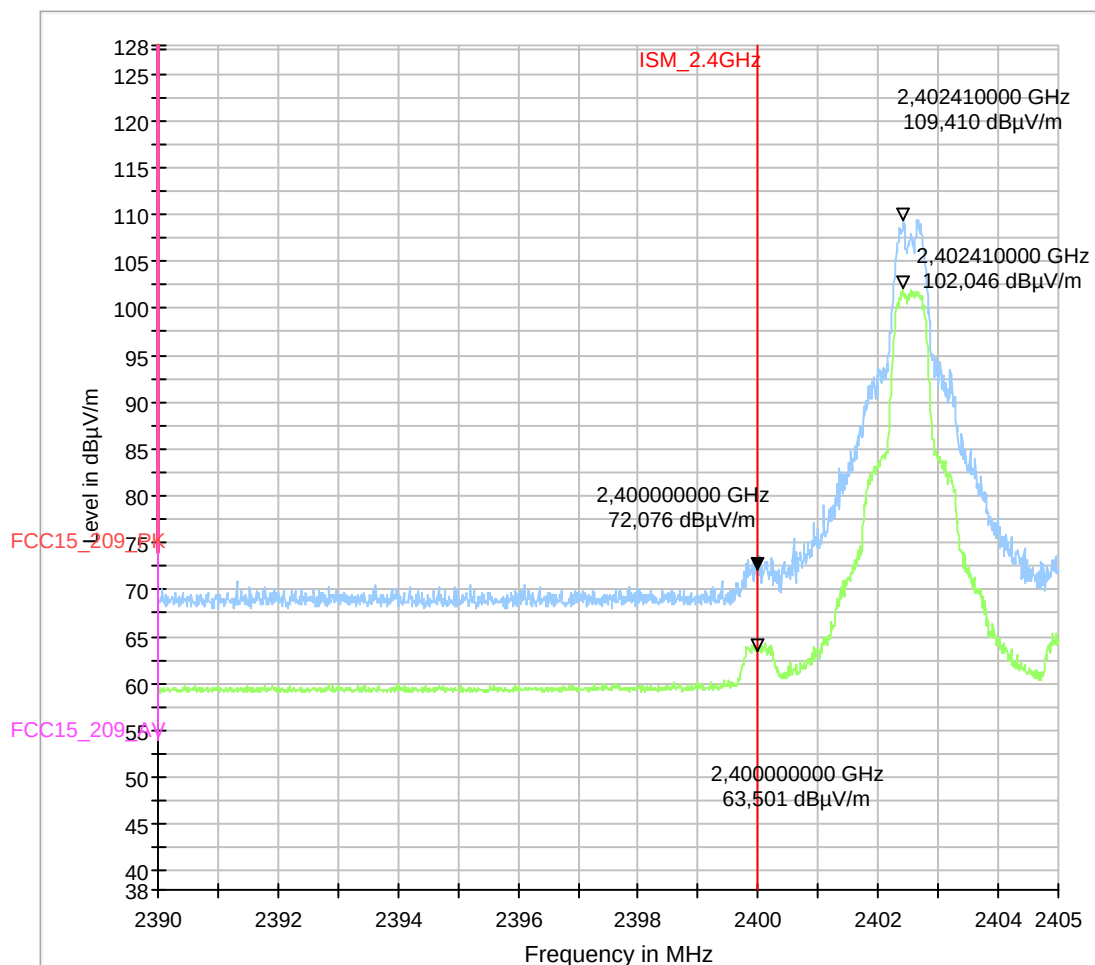
9.07_BE-RCM24G+PRESTTA Ant-MSK-500Kbps- Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 500 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12 dBm
	Afr
Operator Name:	

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3

4.04_RCM24G+PRESTTA Ant-MSK-500Kbps-Ch34-PWR +21dBm]

2.5.2. High Channel 2471.5 MHz (2.4 GHz ISM: right band edge)

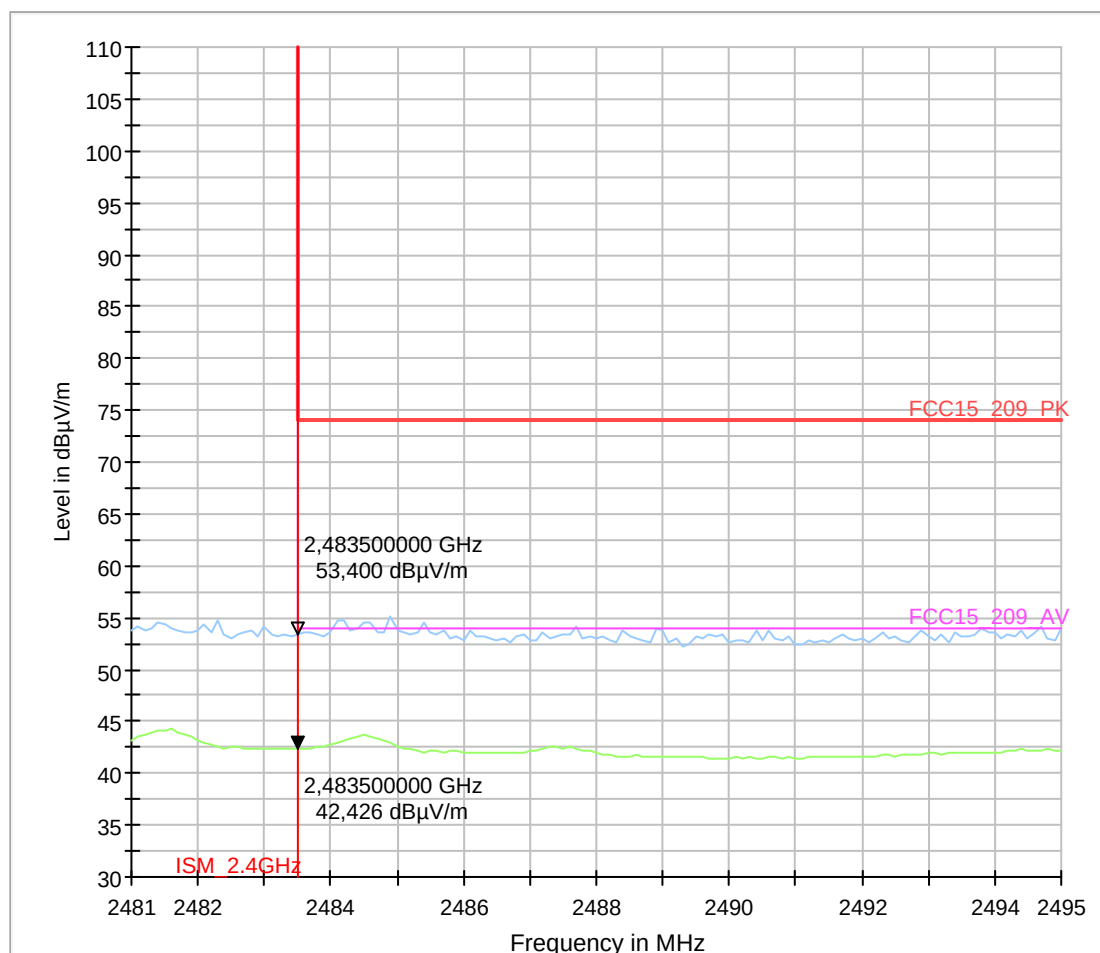
9.02_BE-RCM24G+PRESTTA Ant-MSK-50Kbps-Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 50 Kbps 69 (2471.5 MHz) Fixed Channel (modulated Power +12 dBm)
Operator Name:	AFr
Measurements Performed :	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



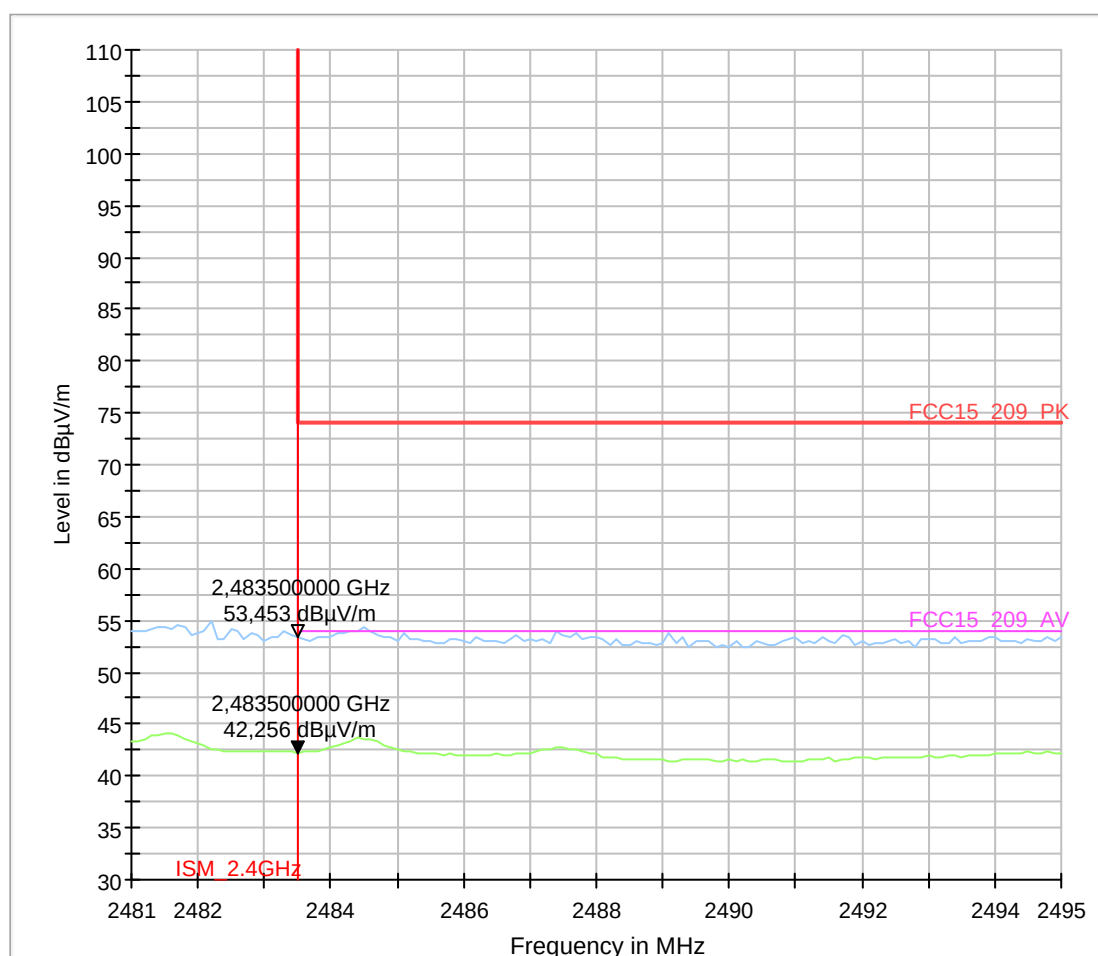
9.04_BE-RCM24G+PRESTTA Ant-MSK-100Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 100 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power +12 dBm
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



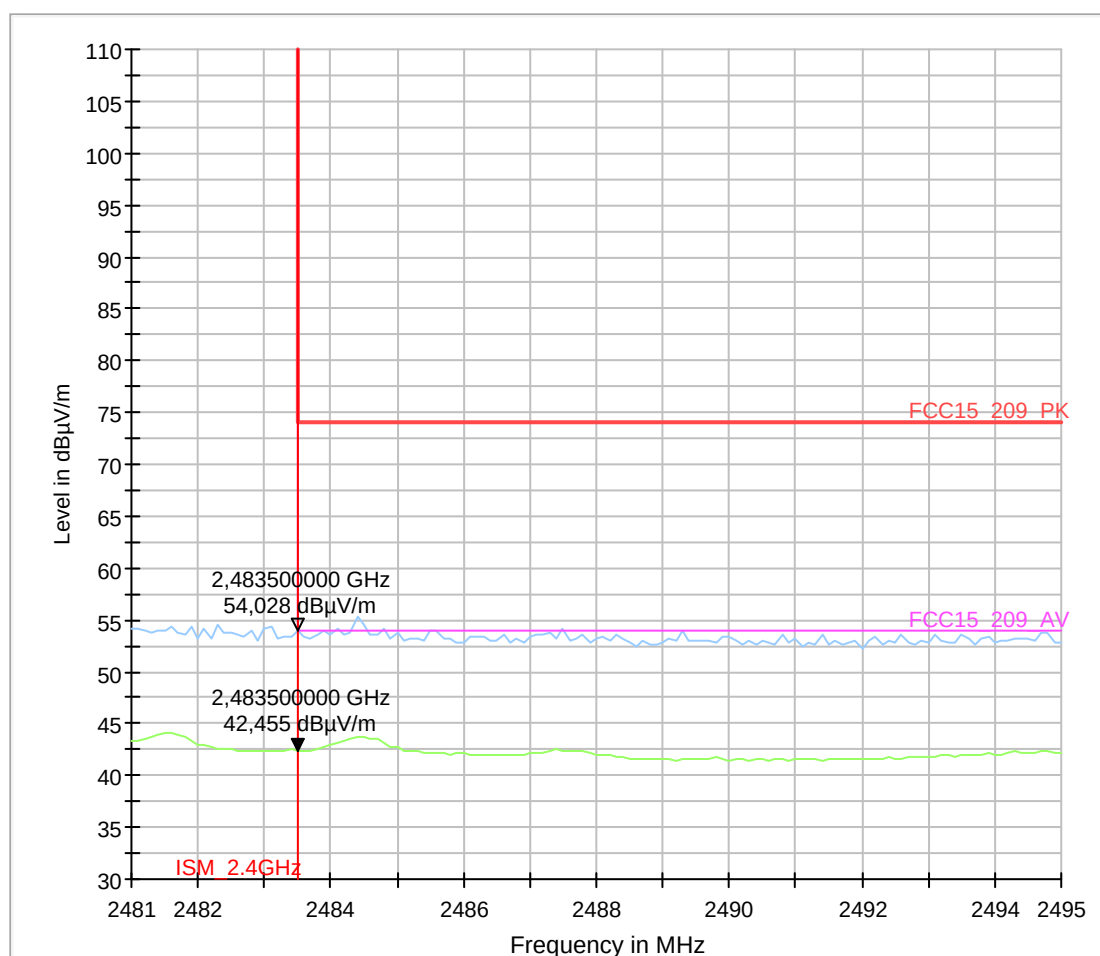
9.06_BE-RCM24G+PRESTTA Ant-MSK-250Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 250 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	Afr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



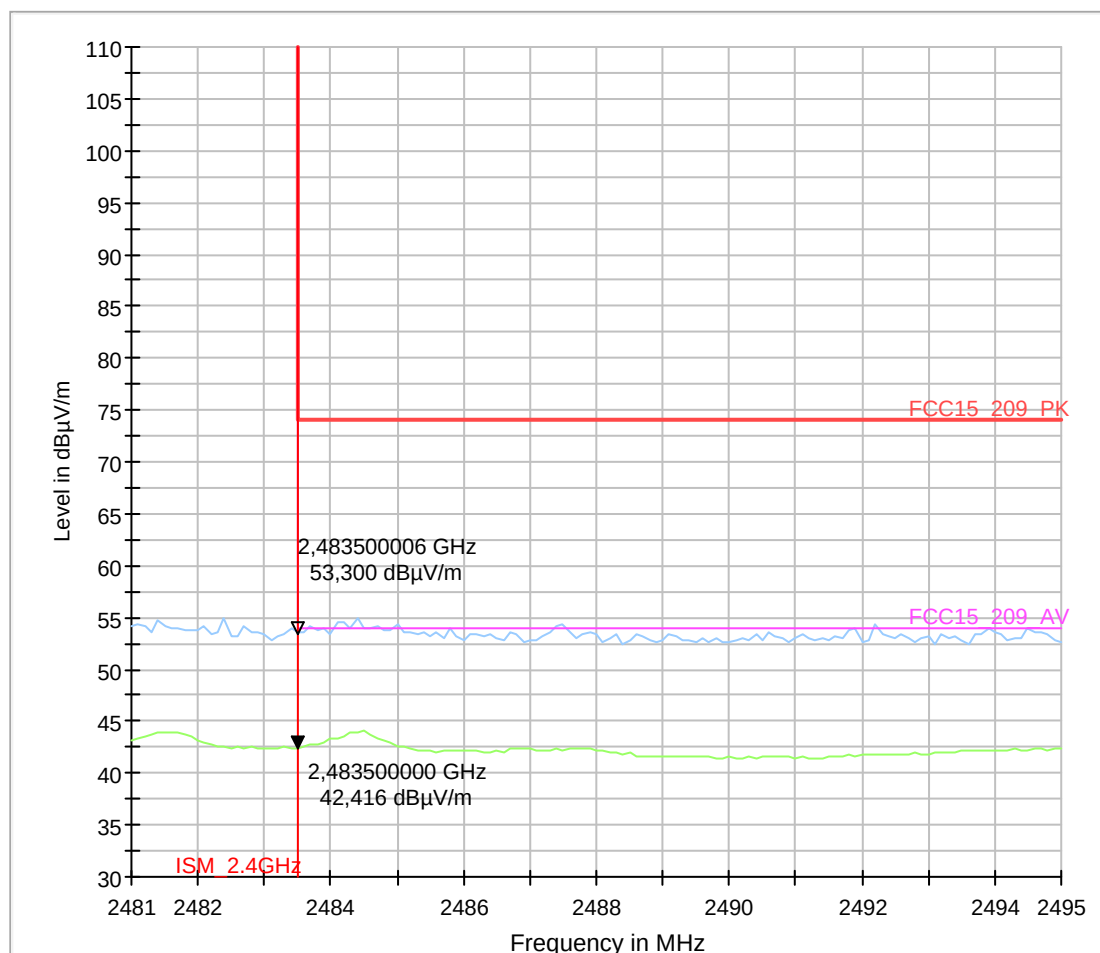
9.08_BE-RCM24G+PRESTTA Ant-MSK-500Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 500 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power +12 dBm
Operator Name:	Afr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



2.5.3. Low Channel Hopping Mode (2.4 GHz ISM: left band edge)

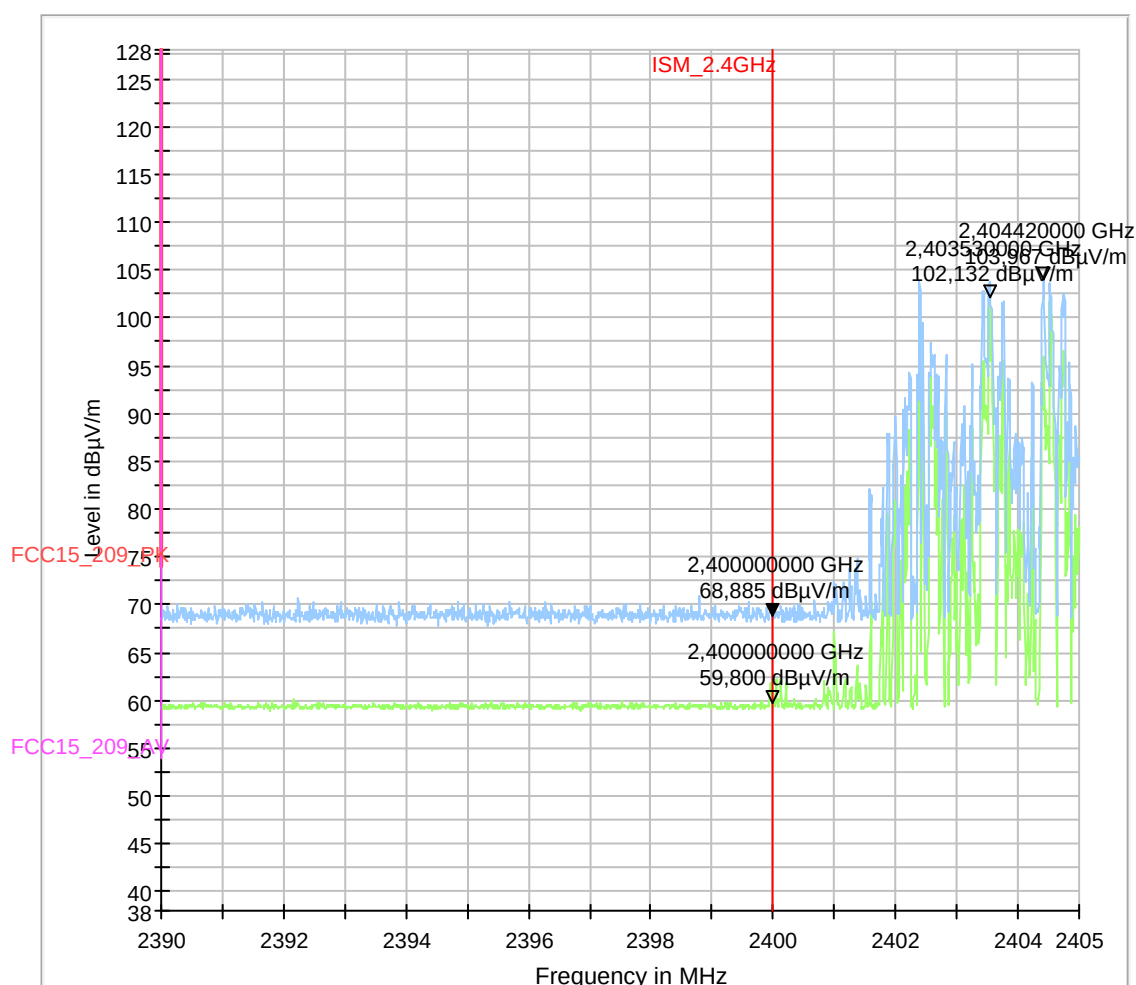
9.09a_BE-RCM24G+PRESTTA Ant-MSK-500Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 500 Kbps Hopping Mode (Master)
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3]

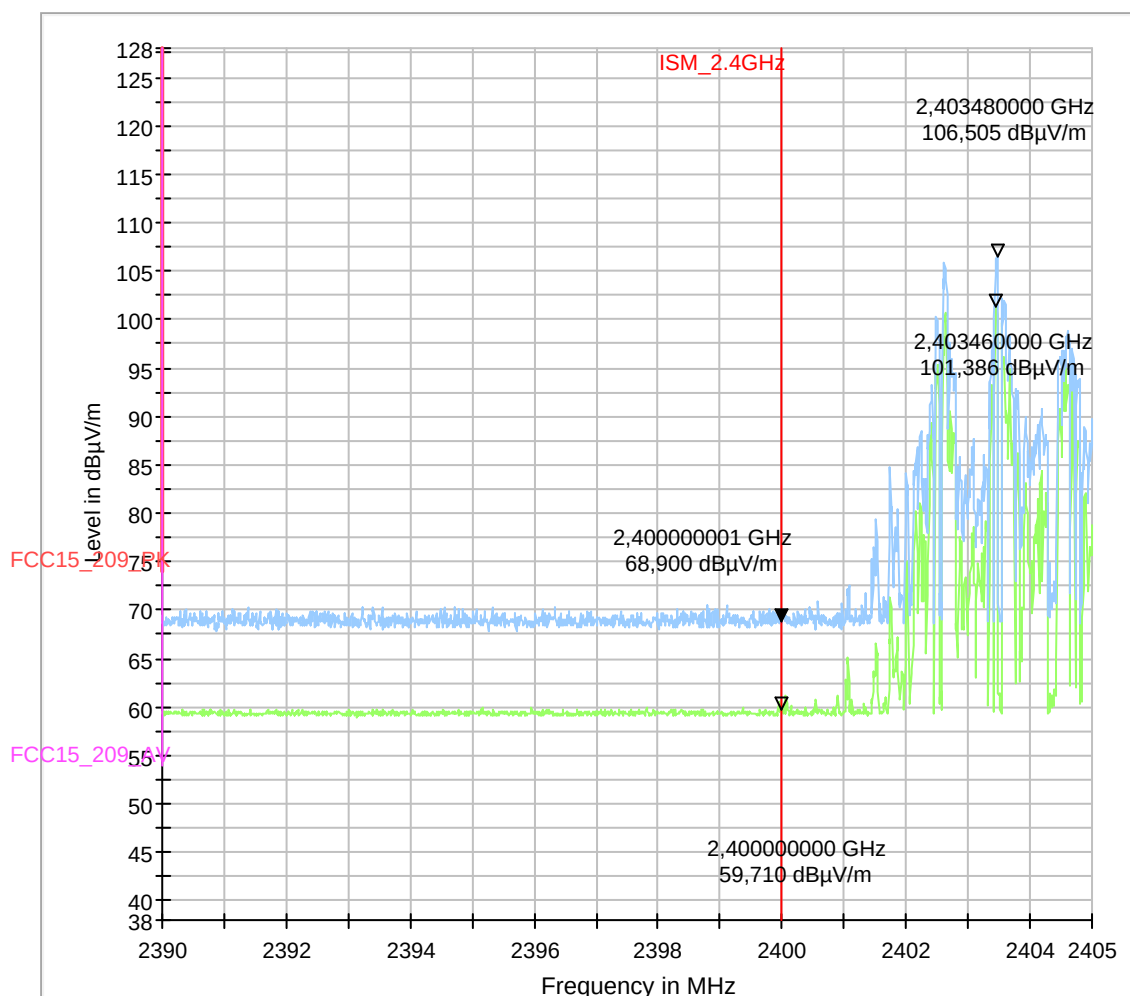
9.10a_BE-RCM24G+PRESTTA Ant-MSK-250Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 250 Kbps Hopping Mode (Master)
Operator Name:	AFr

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 2.3]

2.5.4. High Channel Hopping Mode (2.4 GHz ISM: left band edge)

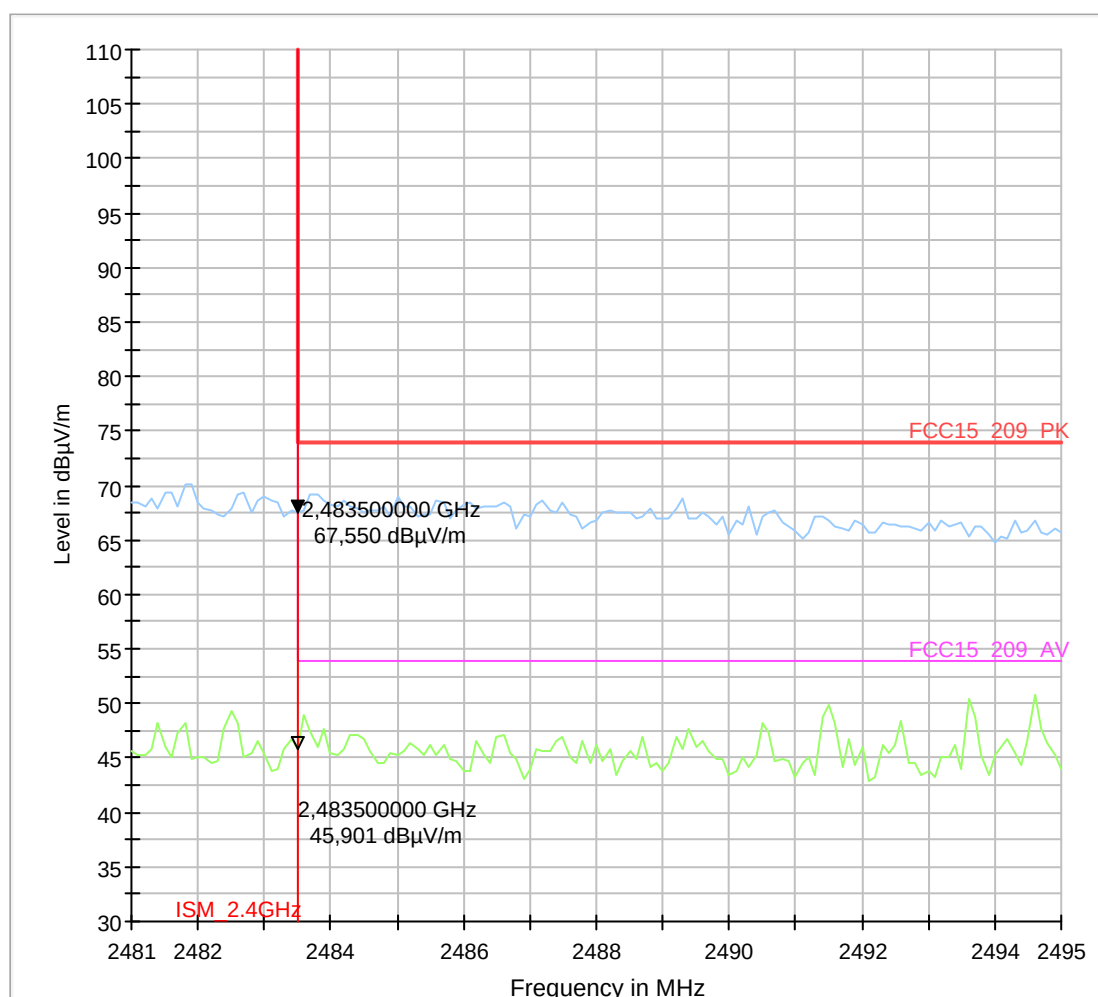
9.09b_BE-RCM24G+PRESTTA Ant-MSK-500Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna MSK 500 Kbps Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



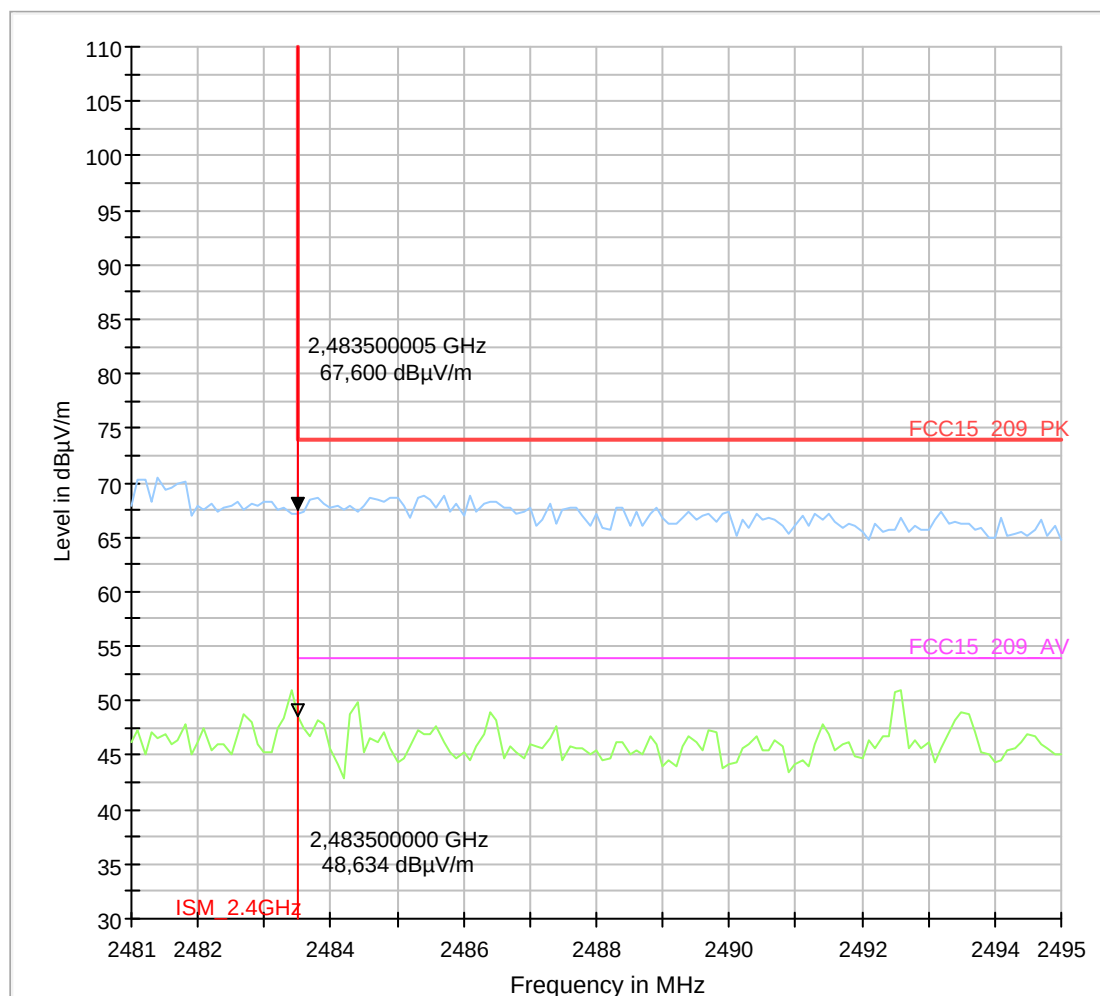
9.10b_BE-RCM24G+PRESTTA Ant-MSK-250Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + PRESTTA Antenna
	MSK 250 Kbps Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Model:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3526
Antenna Details:	PRESTTA Antenna
Antenna Type:	PRESTTA WLAN Embedded Antenna-1000418
Antenna HW version:	N/A
Antenna Gain:	2.5 dBi
Antenna Serial number:	N/A
Test Configuration:	PRESTTA Antenna connected to RCM24G Module using micro-UFL connector cable 20 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply



Radiated Field Strength Measurements

RCM24G

+

INTEL FA5 ANTENNA PORT 1

3. Radiated Field Strength Measurements-RCM24G + INTEL FA5 ANTENNA-PORT 1

3.1. Radiated Field Strength Emissions - 9kHz to 30MHz

2.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

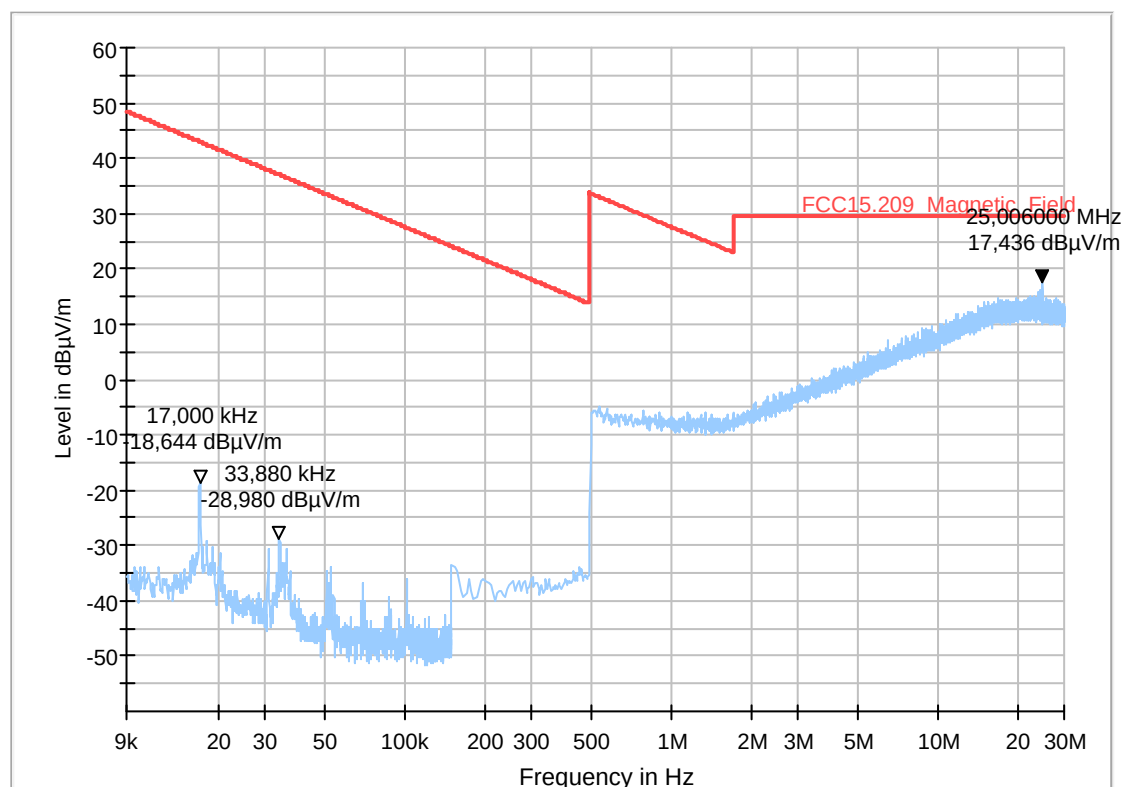
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFR
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1
	MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm terminations.

Full Spectrum



2.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR+12dBm

Common Information

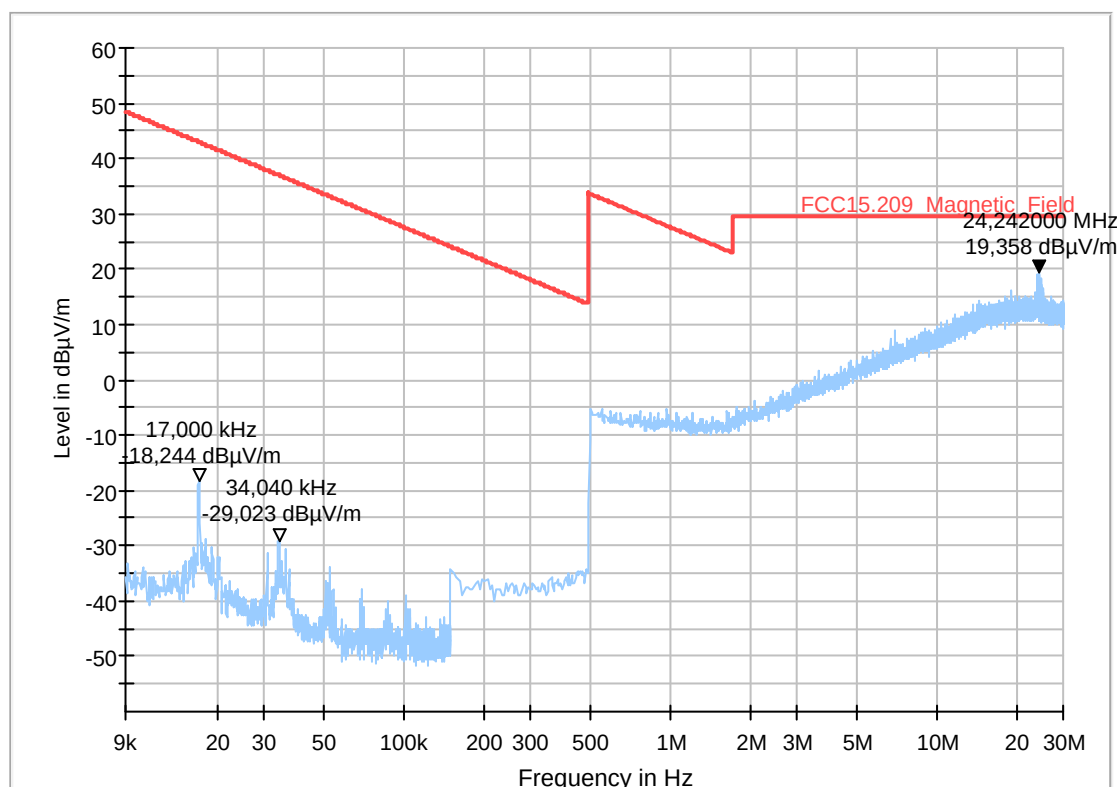
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFR
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1
	MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm terminations.

Full Spectrum



2.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

Common Information

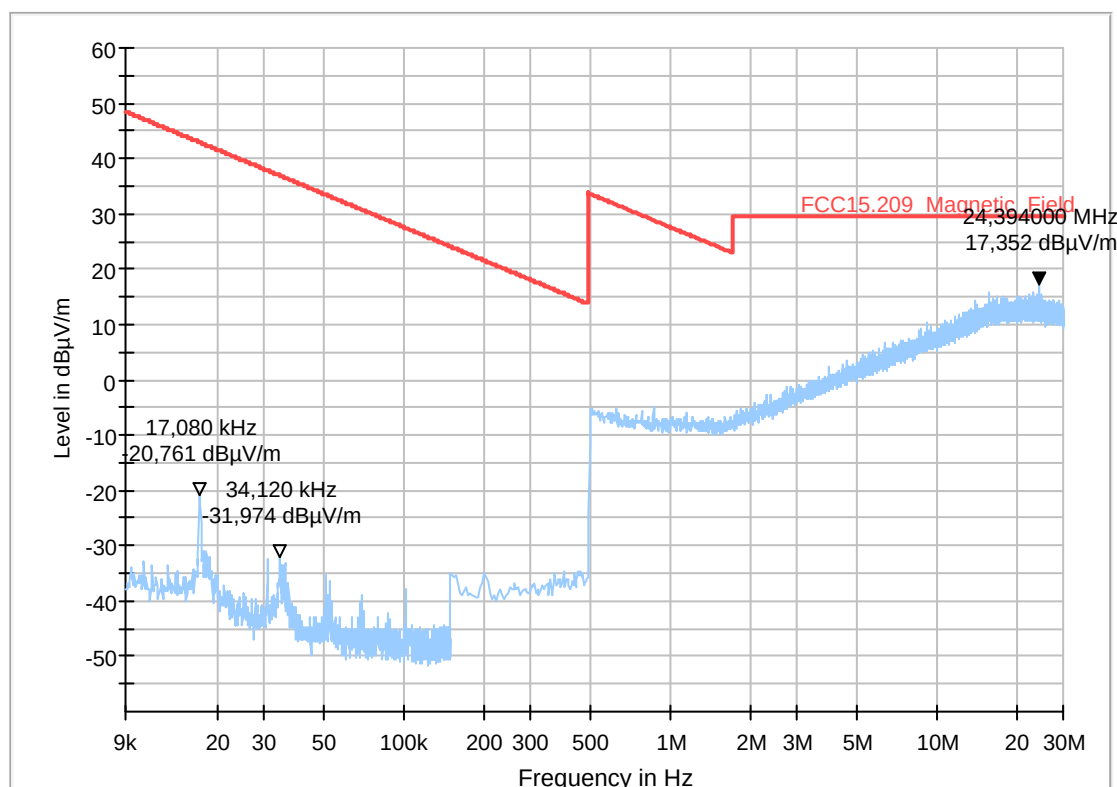
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFR
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated)
	Power: +12dBm
	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm terminations.

Full Spectrum



2.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

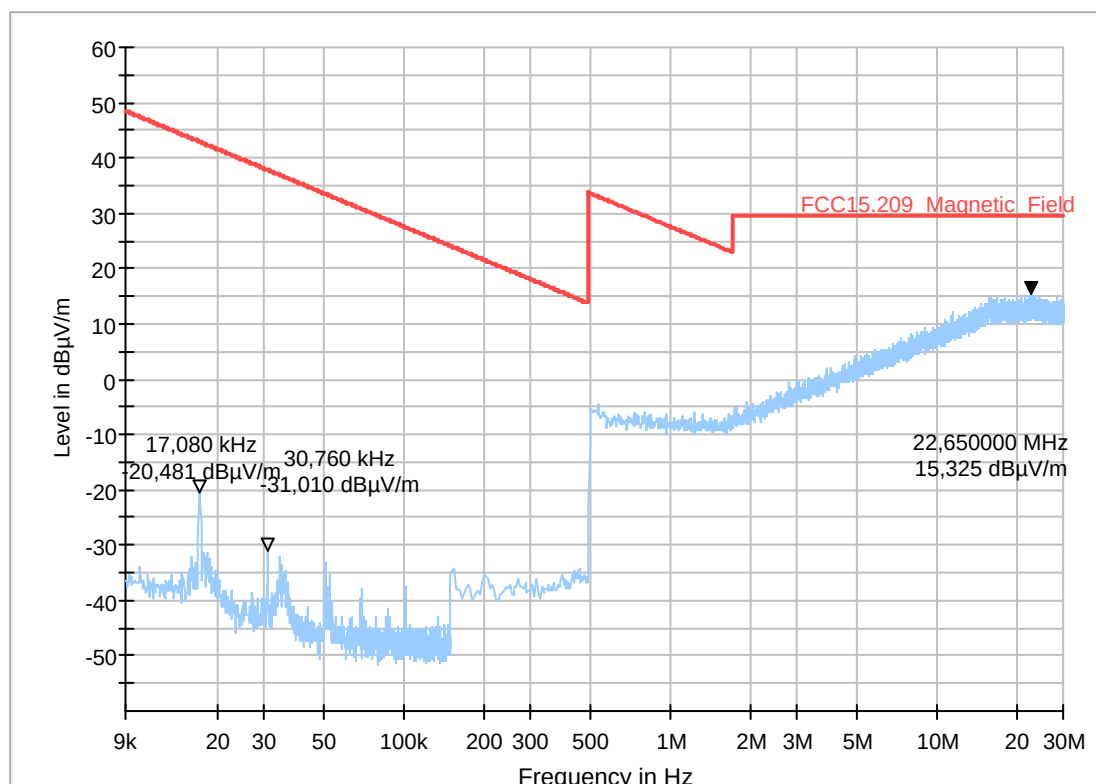
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFR
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1
	MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated)
	Power:+21dBm
Power during tests:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm terminations.

Full Spectrum



3.2. Radiated Field Strength Emissions - 30MHz to 1GHz

3.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

Common Information

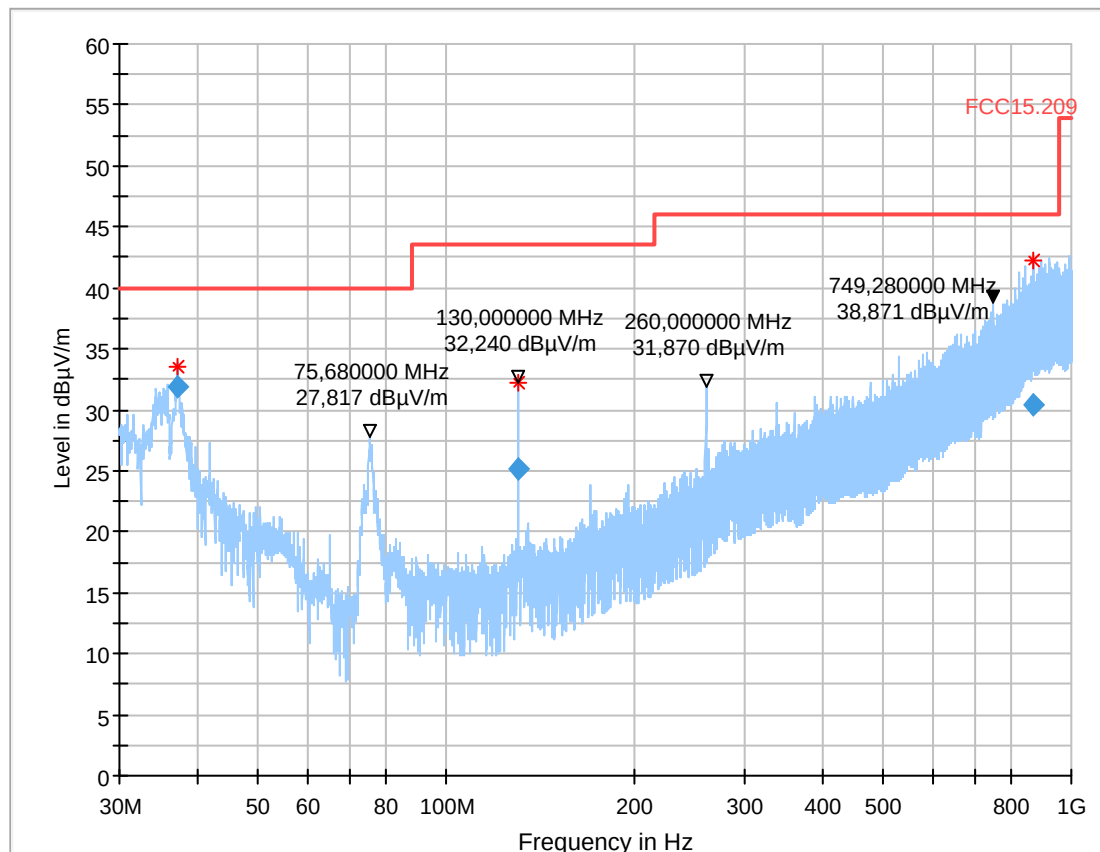
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 50 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power:+12dBm 3.6 V DC Using Laboratory Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length Using RCM24G TestTool_V3_70Channels Software 3.6 V DC (Direct to RCM24G) using Laboratory Supply Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm terminations.
Test Mode Settings:	
Module Power Supply:	
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.172000	31.92	40.00	8.08	1000.0	120.000	283.0	V	143.0	90.0	18.3
130.000000	25.13	43.50	18.37	1000.0	120.000	245.0	H	342.0	0.0	9.0
867.120000	30.37	46.00	15.63	1000.0	120.000	360.0	V	81.0	90.0	26.0

3.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR+12dBm

Common Information

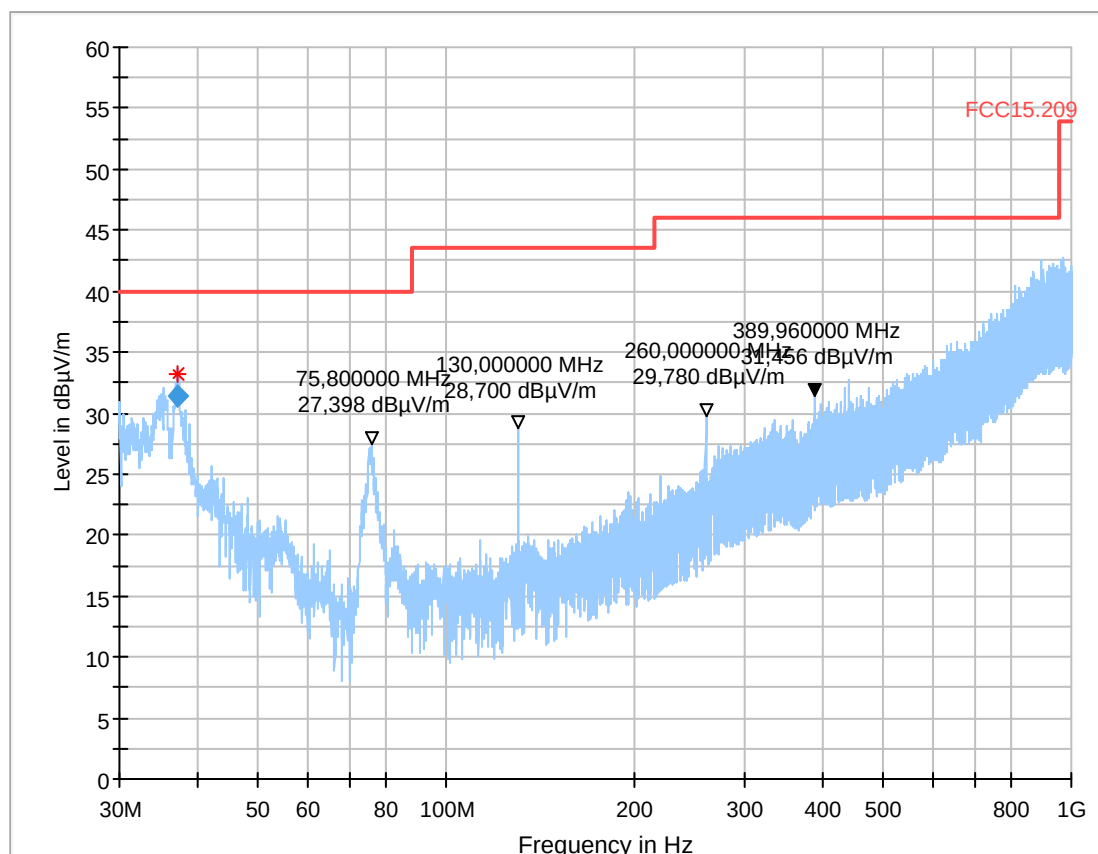
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
	3.6 V DC Using Laboratory Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm terminations.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.256000	31.32	40.00	8.68	1000.0	120.000	292.0	H	117.0	90.0	18.3

3.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

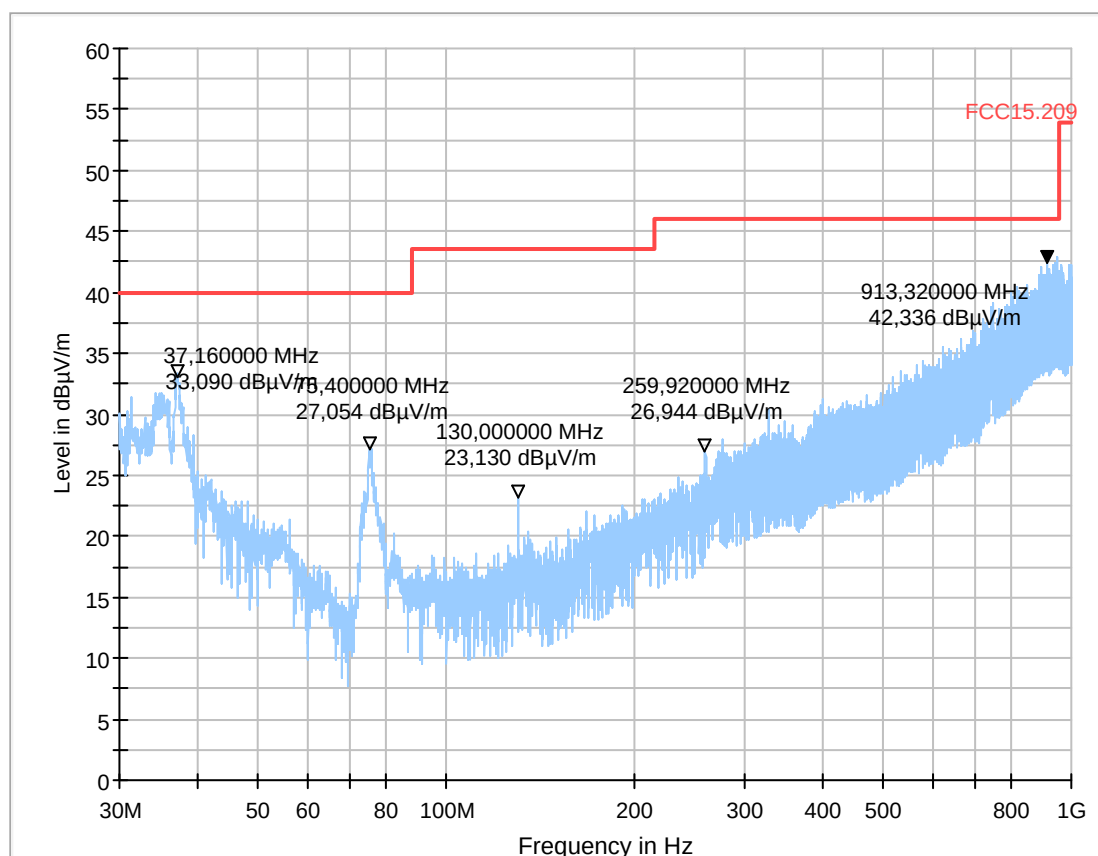
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	APh
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm

Full Spectrum



3.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

Common Information

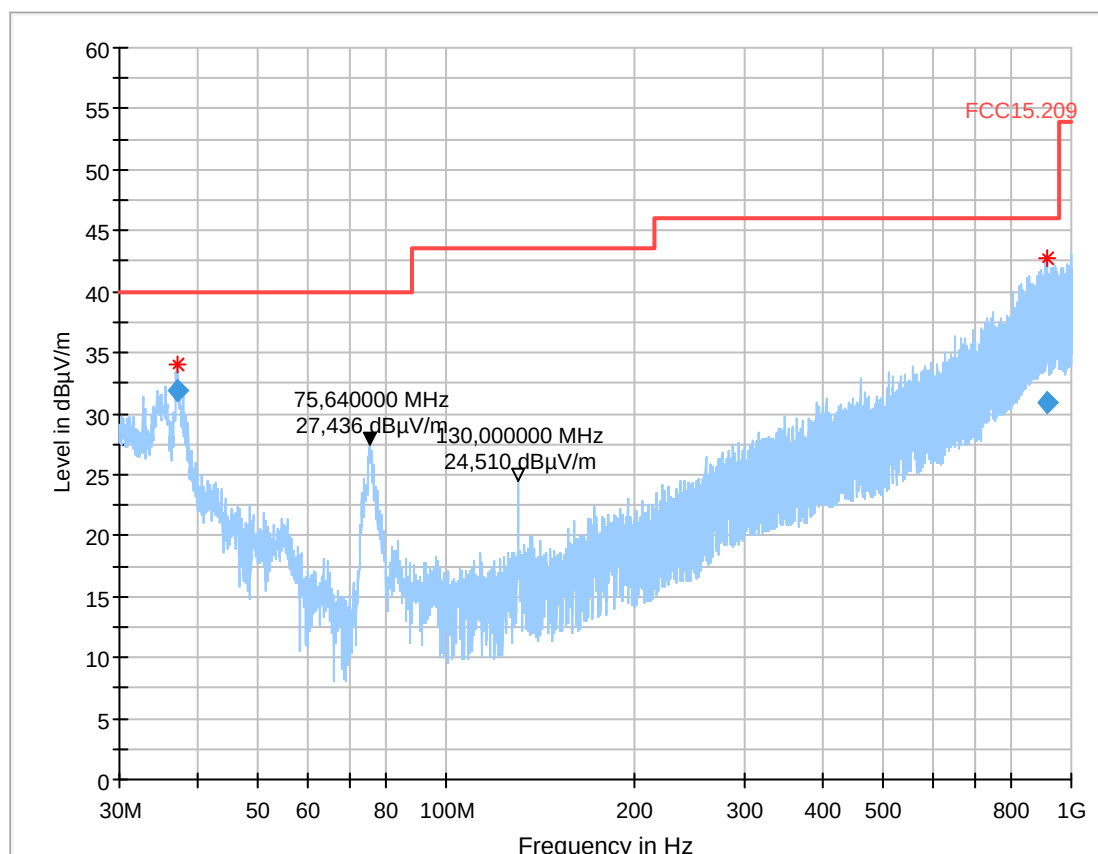
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	Afr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 500 Kbps 34 (2436.5 MHz) Fixed Channel (modulated)
	Power:+21dBm
	3.6 V DC Using Laboratory Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.040000	31.85	40.00	8.15	1000.0	120.000	294.0	V	117.0	0.0	18.4
912.392000	30.92	46.00	15.08	1000.0	120.000	273.0	V	111.0	90.0	26.7

3.3. Radiated Field Strength Emissions - 1GHz to 18GHz

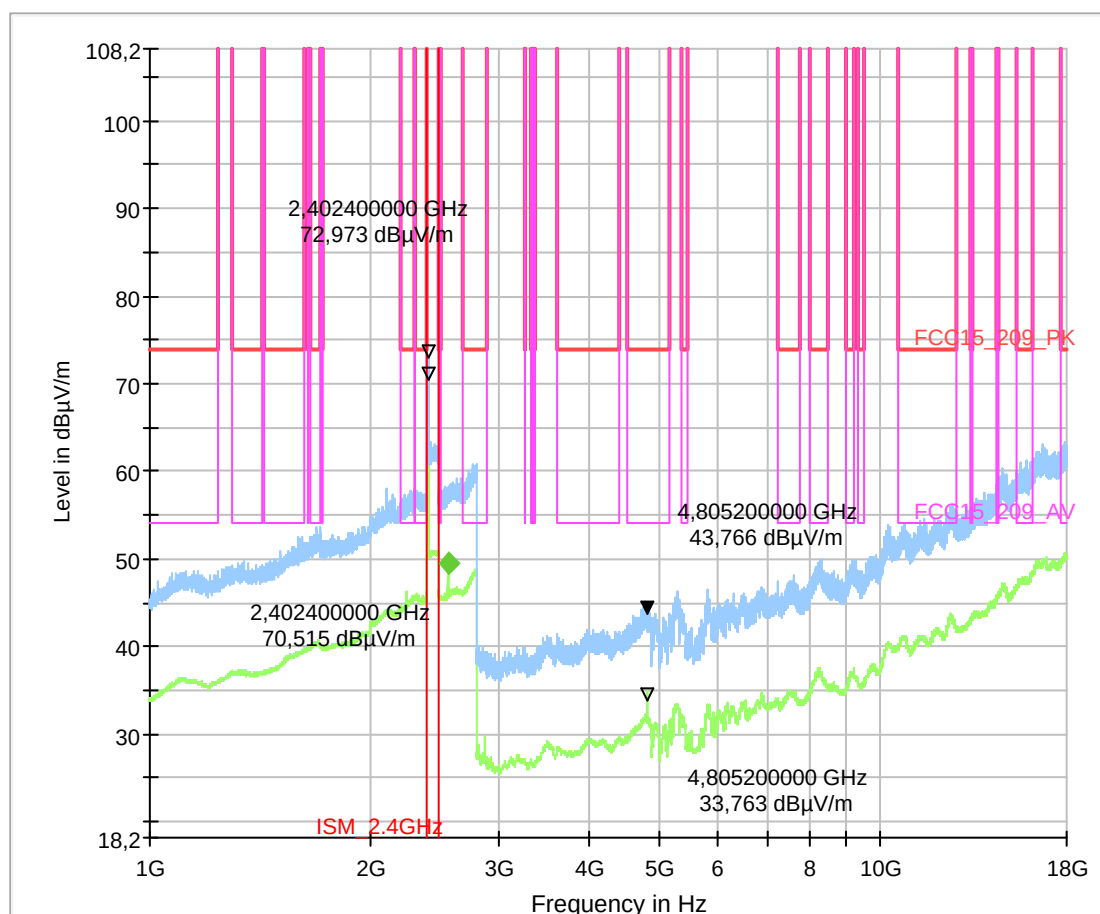
4.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

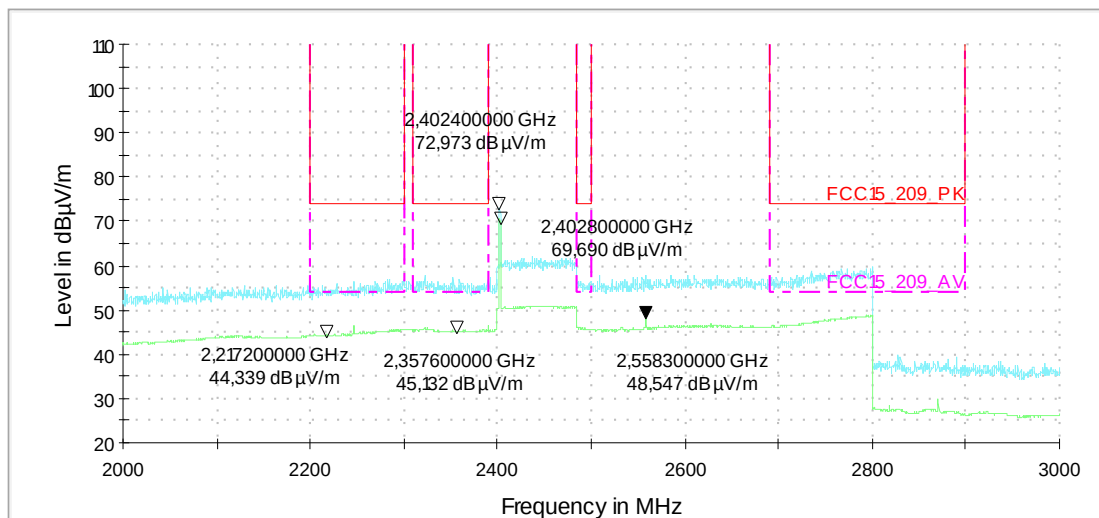
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFR
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm





Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2558.550000	49.59	150.00	100.41	100.0	1000.000	155.0	H	58.0	90.0	36.0

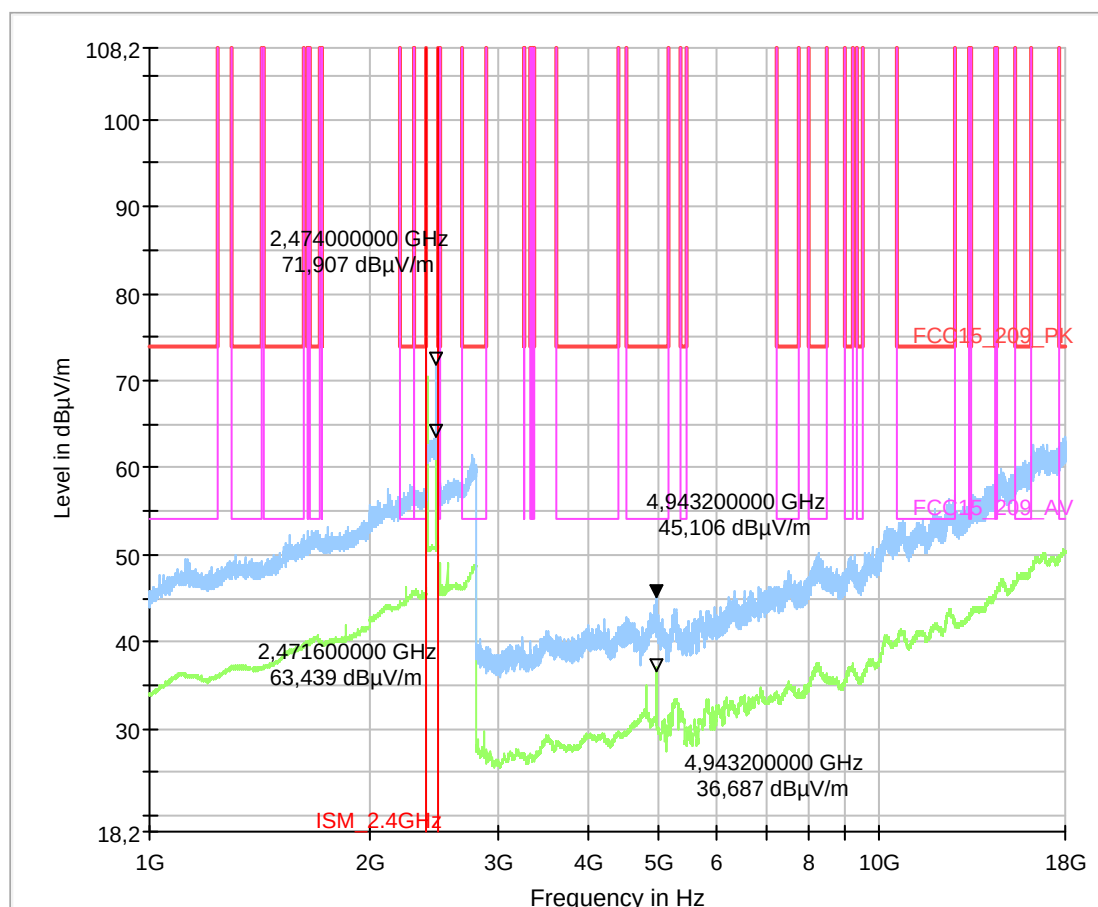
4.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR +12dBm

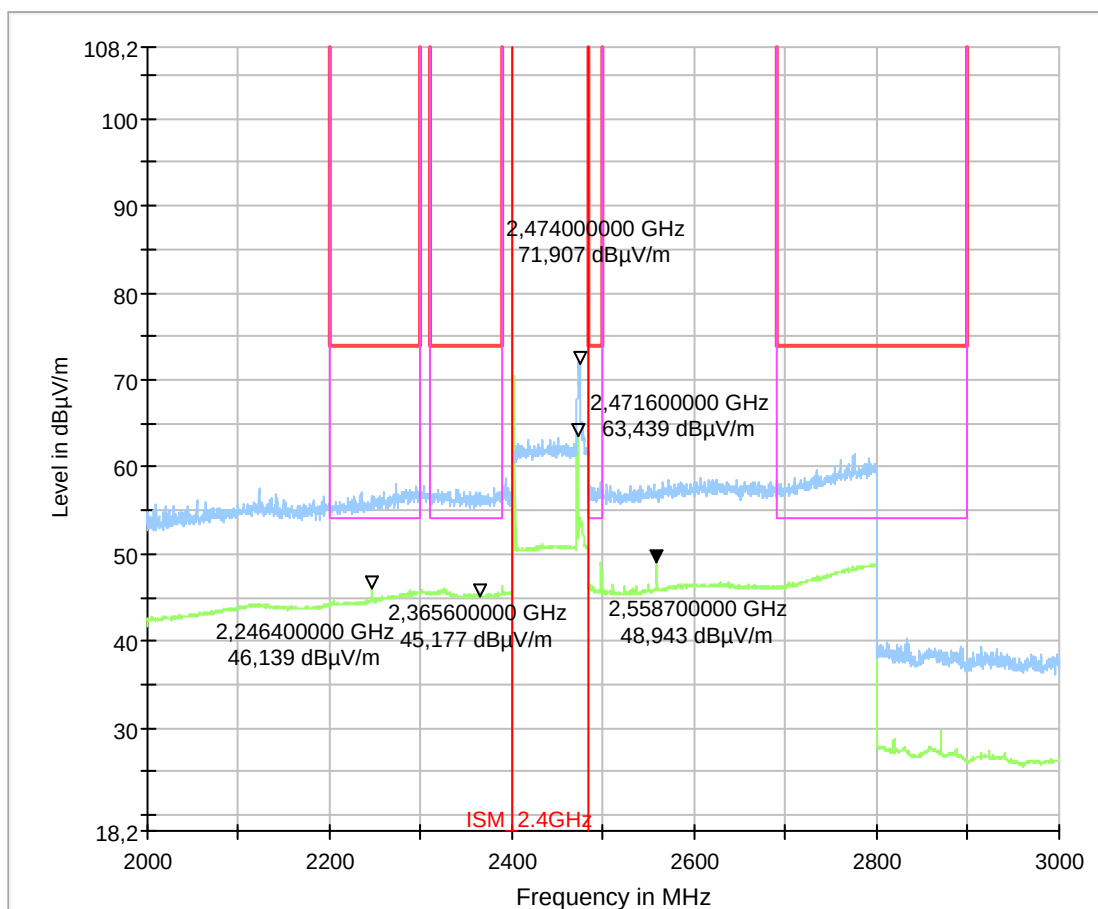
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 100 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power +12dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm





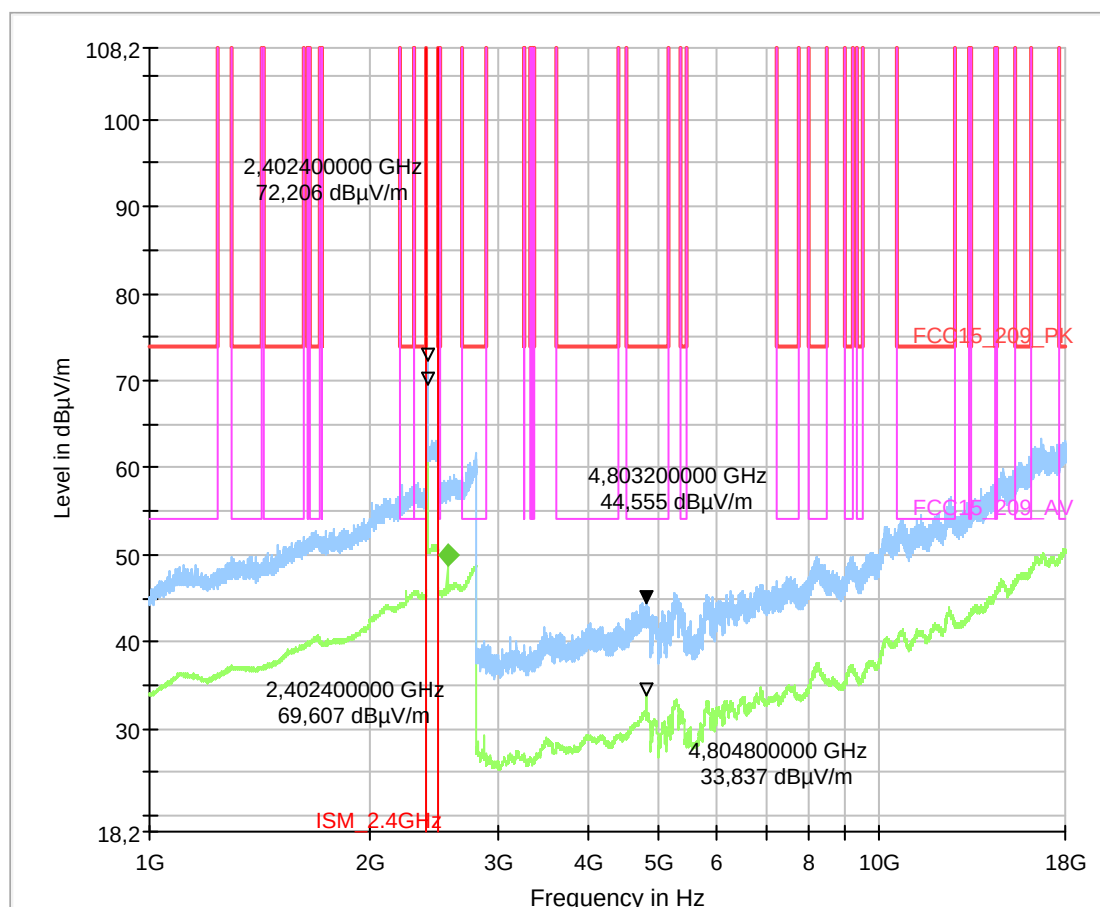
4.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

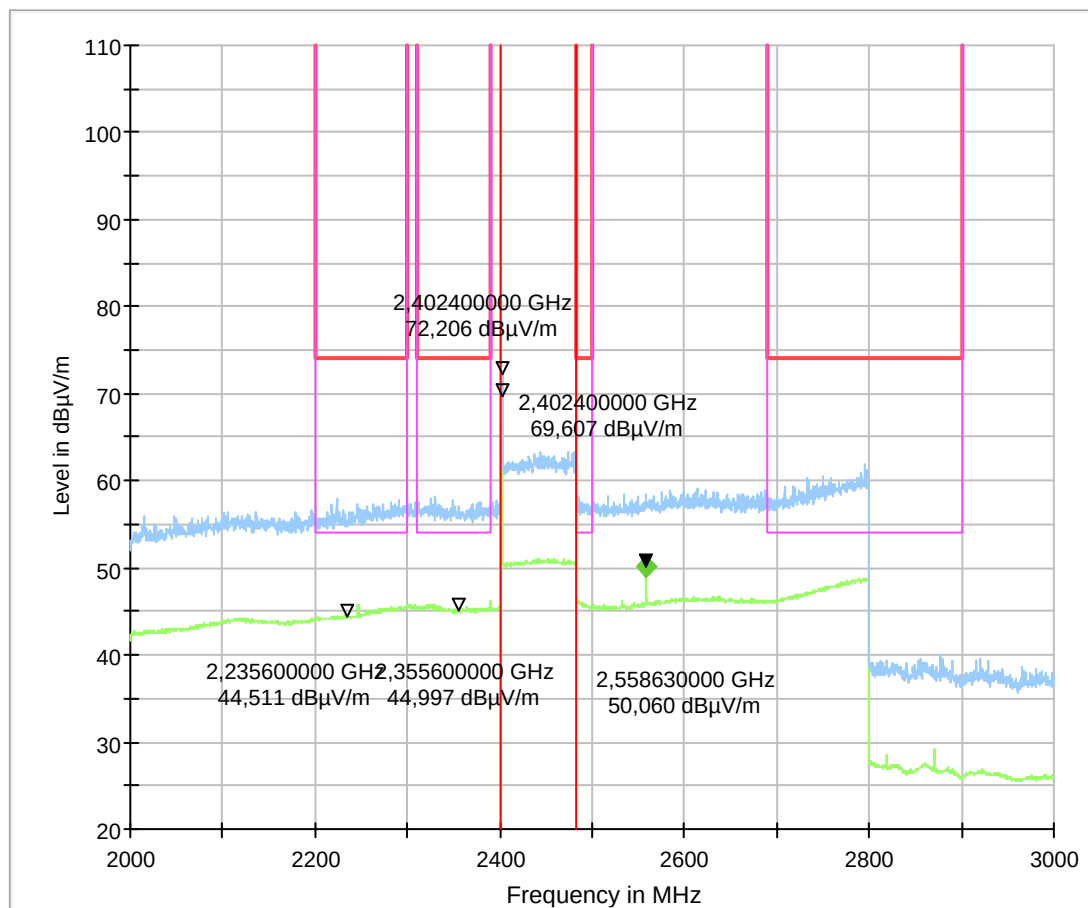
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12dBm
Operator Name:	TFR
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm





Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2558.630000	50.06	150.00	99.94	100.0	1000.000	155.0	V	200.0	0.0	36.0

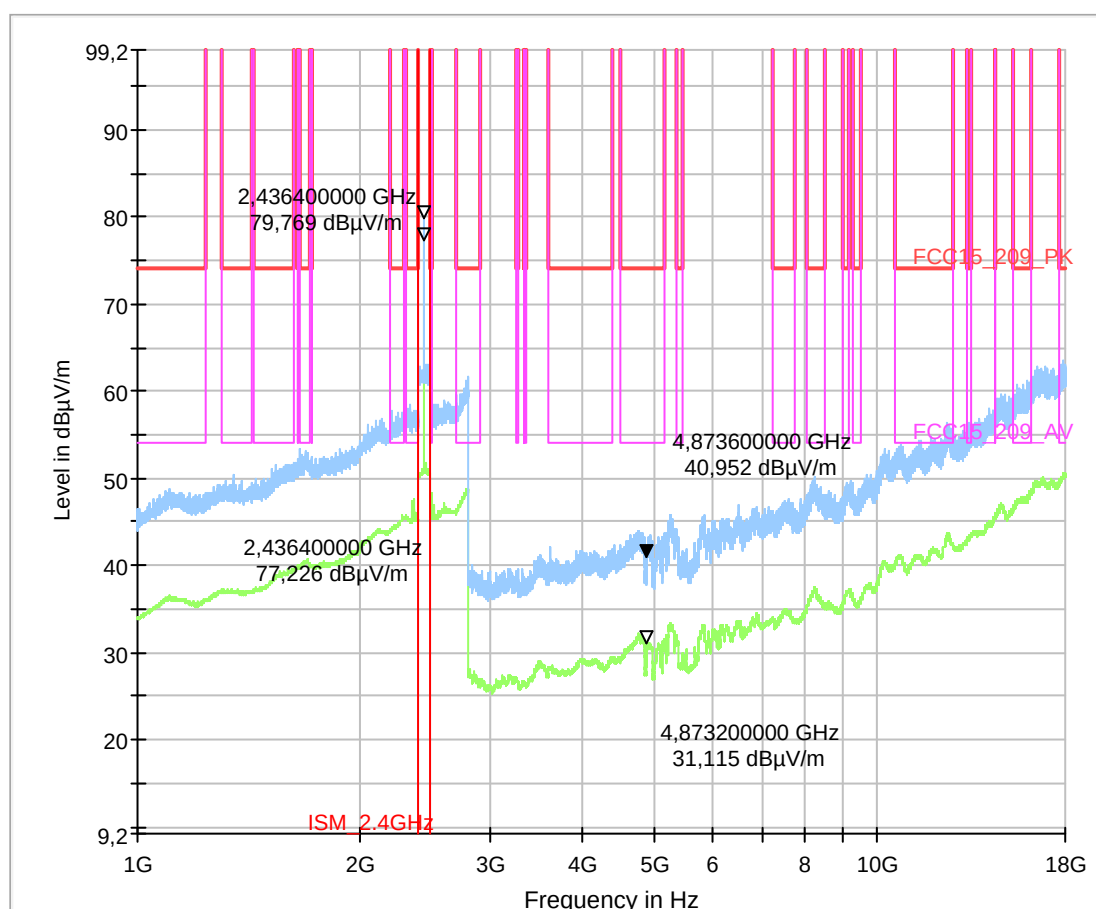
4.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

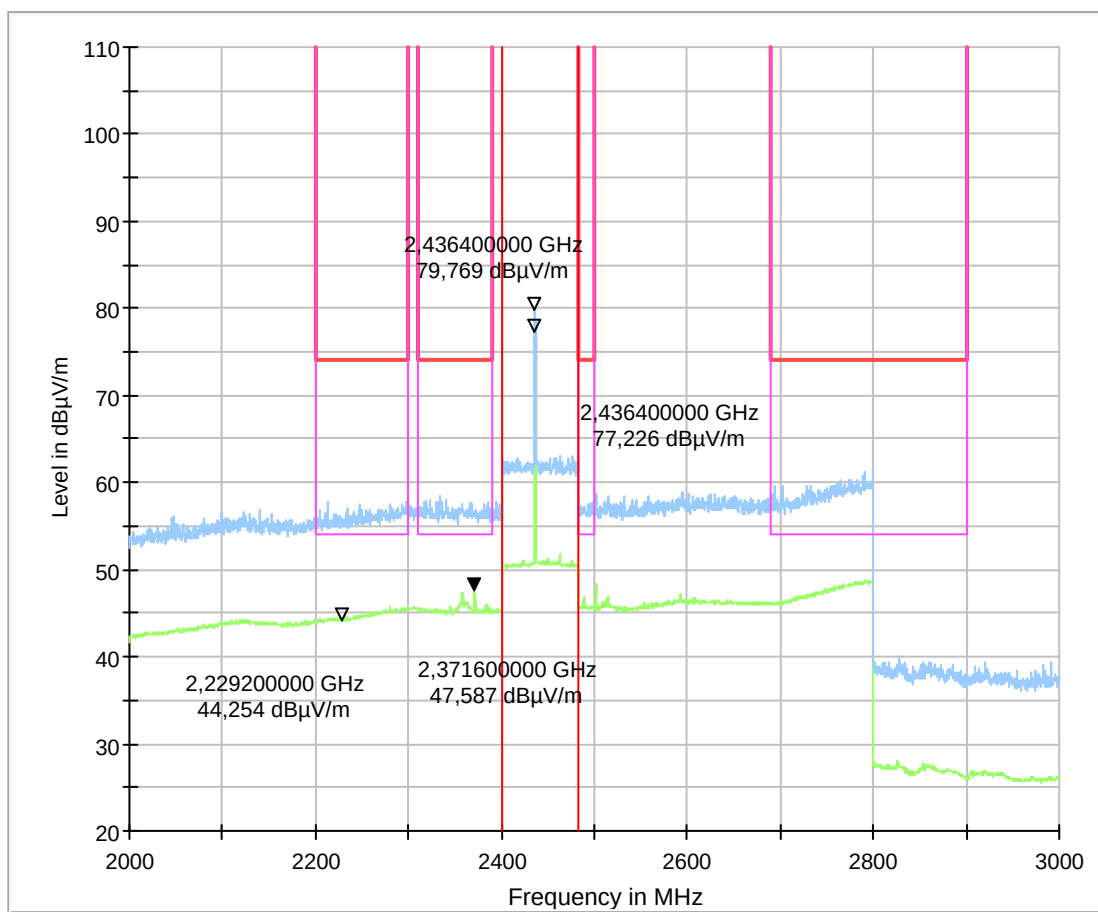
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power +21dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ohm





3.4. Radiated Field Strength Emissions - 18GHz to 25GHz

4.11a_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm

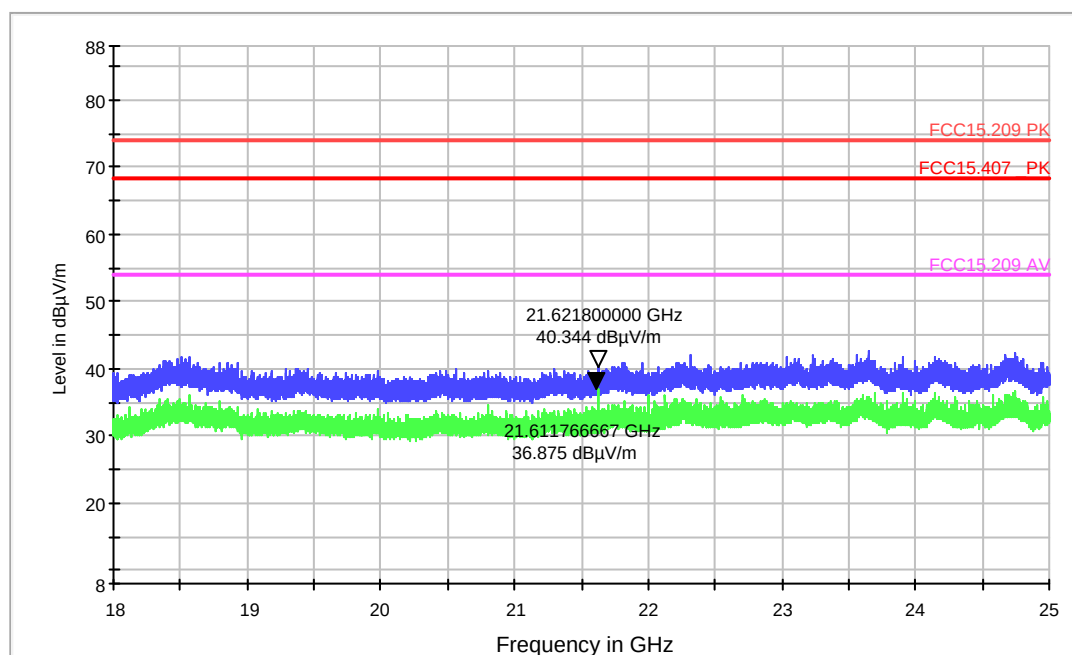
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.12a_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69-PWR+12dBm

Common Information

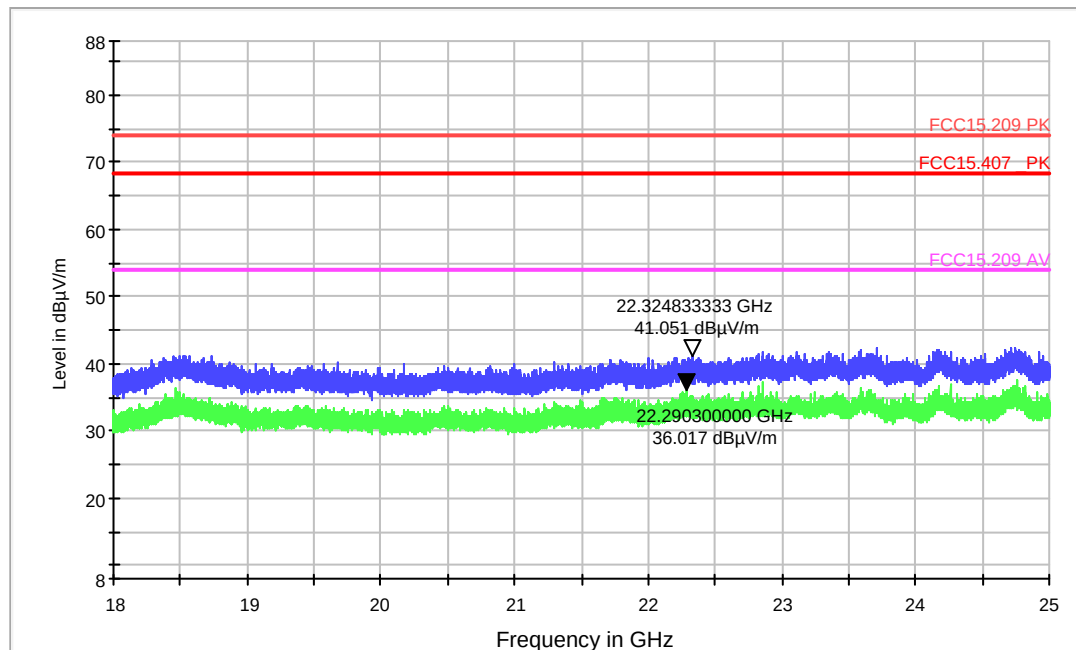
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK 100 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power:+12dBm

Operator Name: TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.13a_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm

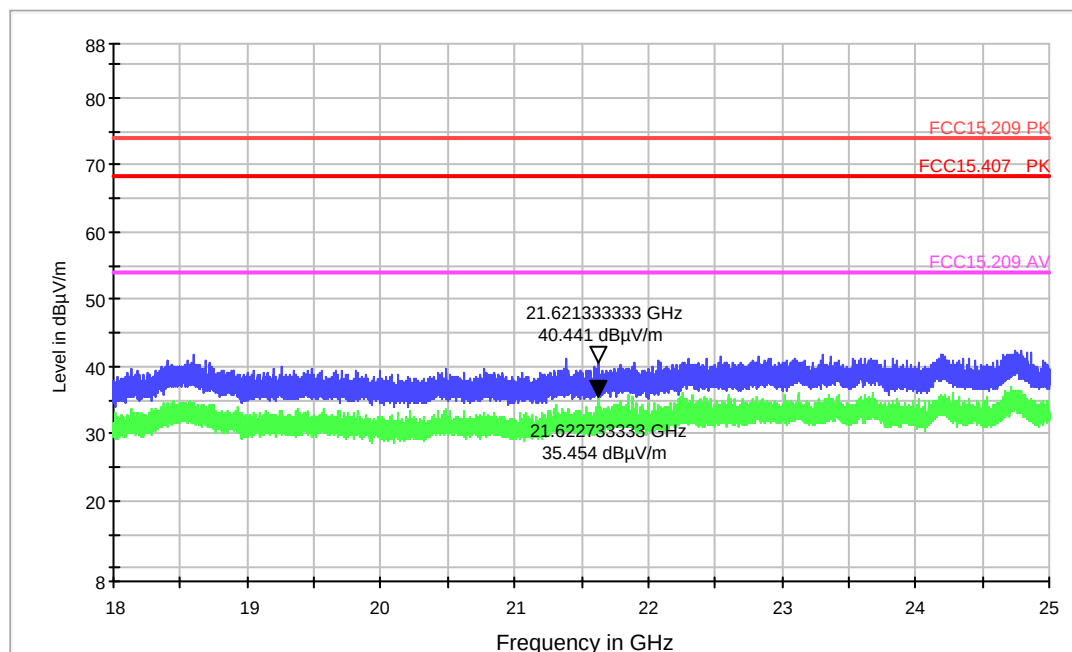
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK 250 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm TFr
Operator Name:	

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.14a_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34-PWR +21dBm

Common Information

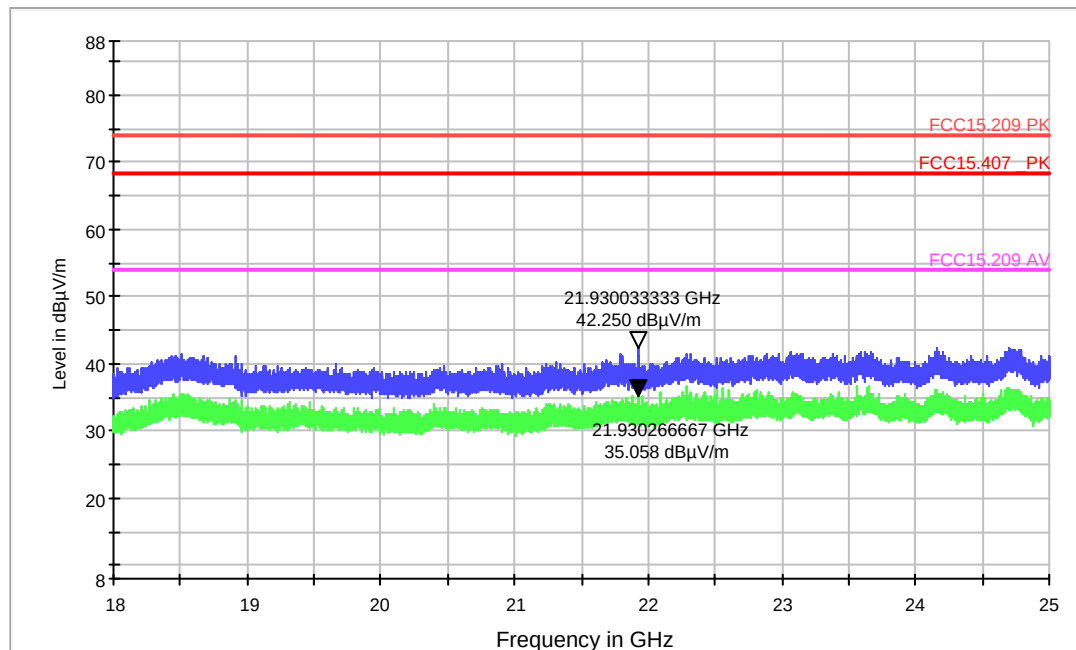
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT1 MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm

Operator Name: TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



3.5. Radiated Band-Edge Measurements

3.5.1. Low Channel 2402.5 MHz (2.4 GHz ISM: left band edge)

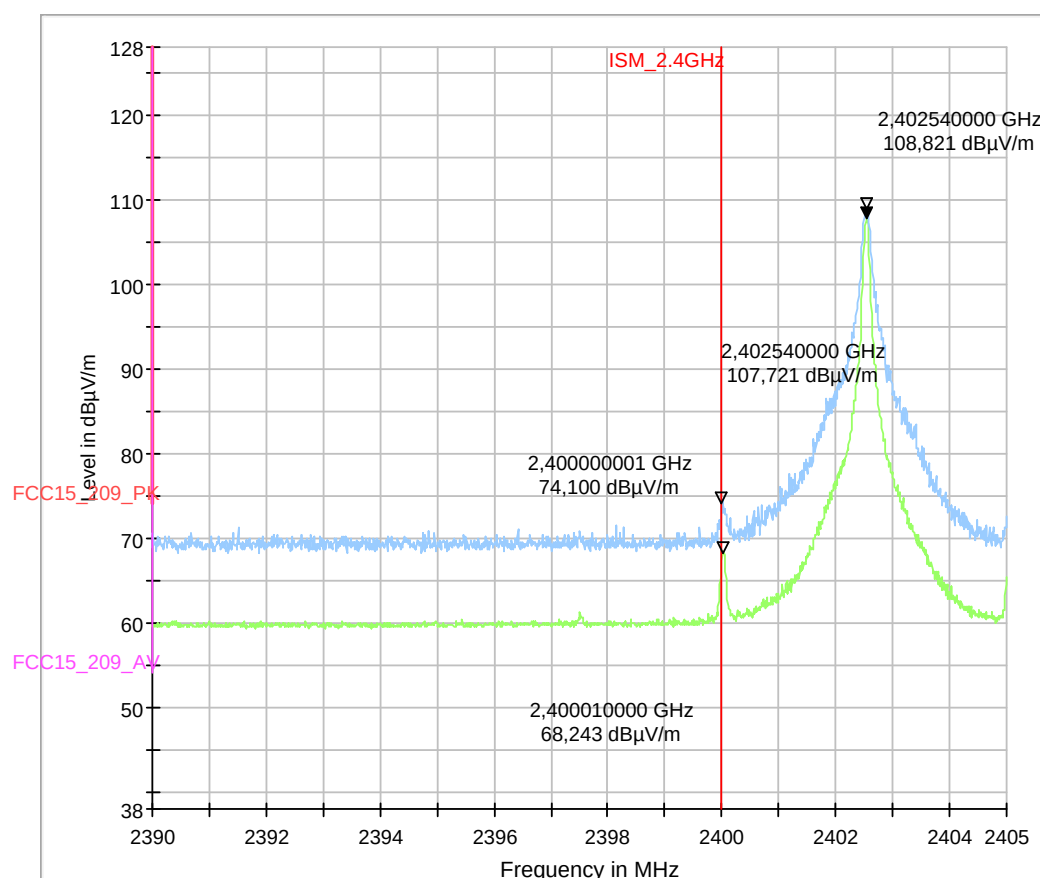
9.11_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps- Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	MSK 50 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12dBm
Operator Name:	TFR
Comment:	Channel low

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3

4.11_RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps-Ch0-PWR +12dBm]

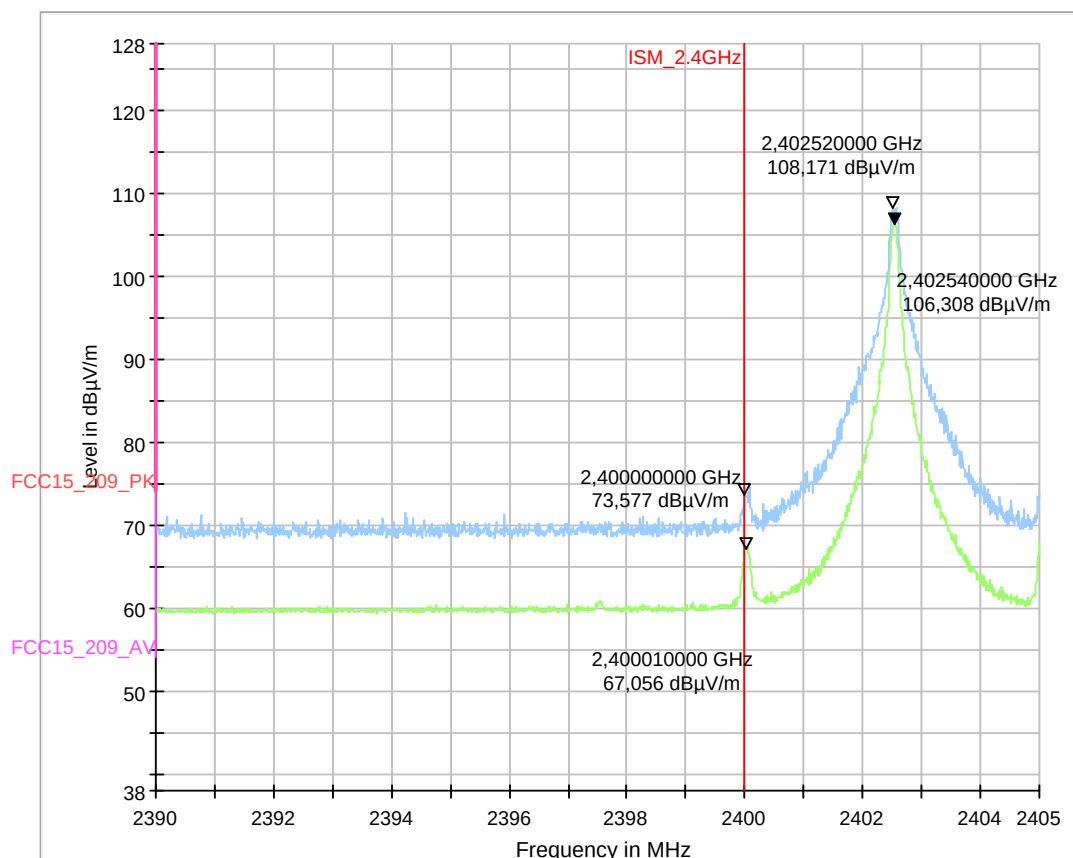
9.13_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	MSK 100 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	TFR
Comment:	Channel low

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω .



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3
4.12_RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps-Ch69- PWR +12dBm]

9.15_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR+12 dBm

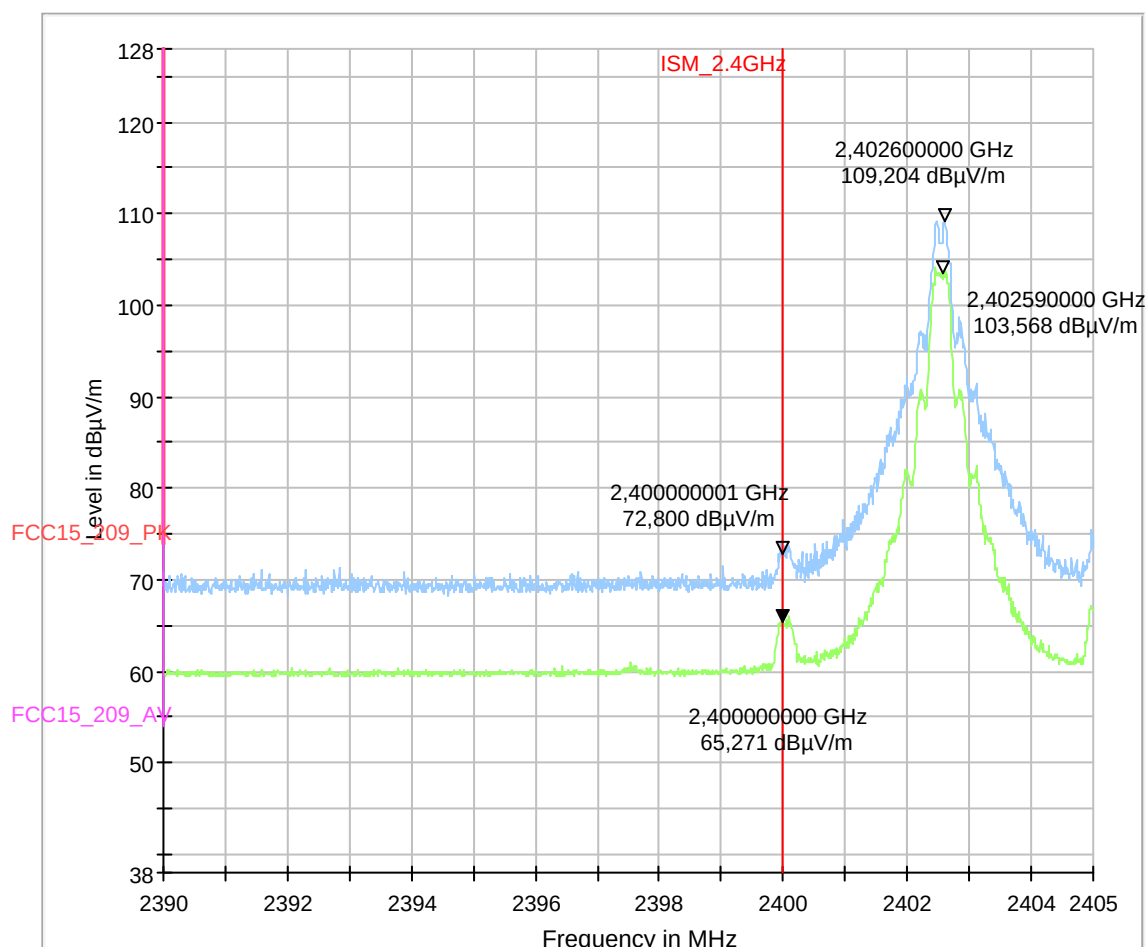
Common Information

Test Description: Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site: CETECOM GmbH Essen
Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation: horizontal/vertical
Operation mode: TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
MSK | 100 Kbps | 0 (2402.5 MHz) Fixed Channel (modulated) | Power: +12dBm
TFR

Operator Name:

EUT Information

Manufacturer: Intel
Module Details: RCM24G
Module Type: Proprietary 2.4 GHz RF Transceiver
Module HW version: D
Module SW version: Bootloader Version 3.6
Module Serial number: PCB ID 3518
Antenna Details: INTEL FA5 ANTENNA-PORT1
Antenna Type: Monopole
Antenna HW version: Antenna-002
Antenna Gain: 3.19 dBi
Antenna Serial number: N/A
Test Configuration: INTEL FA5 Antenna's Port 1 (Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings: Using RCM24G TestTool_V3_70Channels Software
Module Power Supply: 3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments: Unused INTEL FA5 Antenna ports (Port: 5 | 2 | 3 | 4) are terminated with 50 Ω .



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz) compliance refer Chapter 3.3
4.13_RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Ch0-PWR +12dBm]

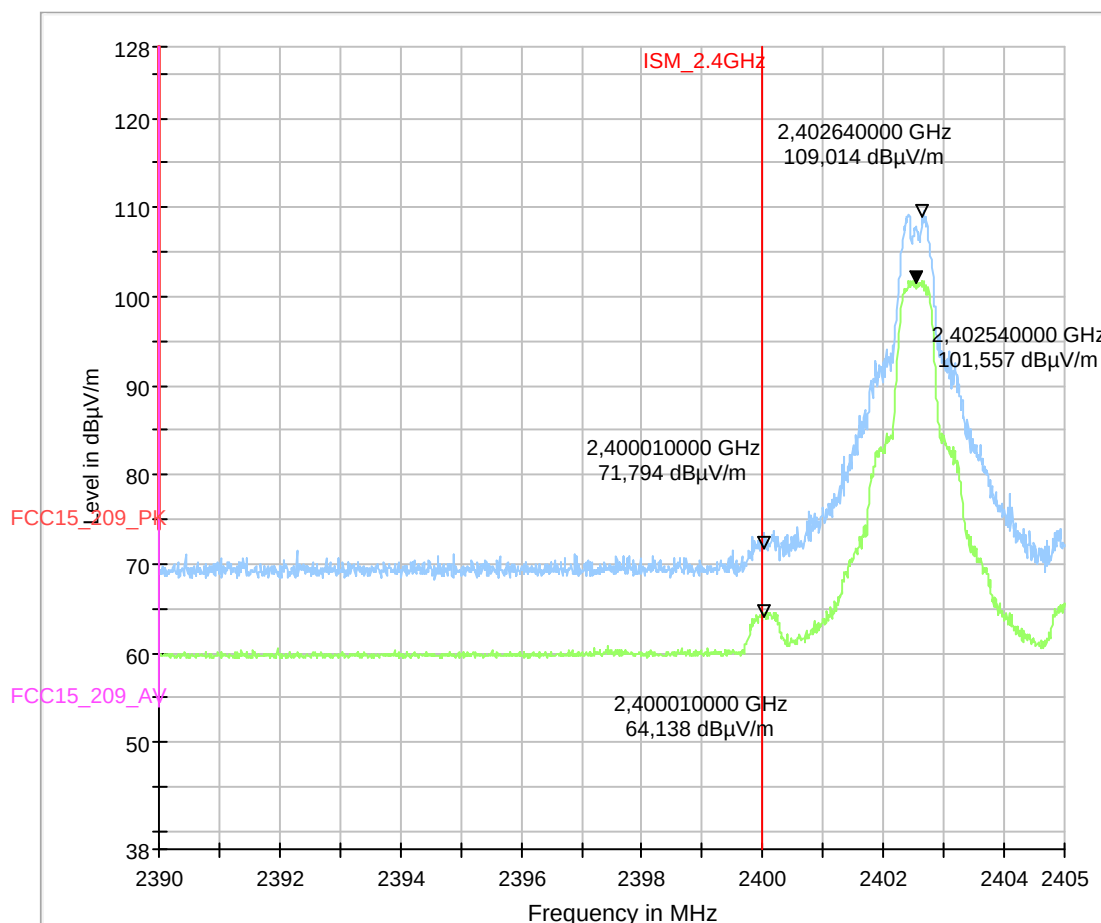
9.17_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch0-PWR+12 dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 500 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power 12 dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version 3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1 (Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω .



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz) compliance refer Chapter 3.3
4.14_RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Ch34- PWR +21dBm]

3.5.2. High Channel 2471.5 MHz (2.4 GHz ISM: right band edge)

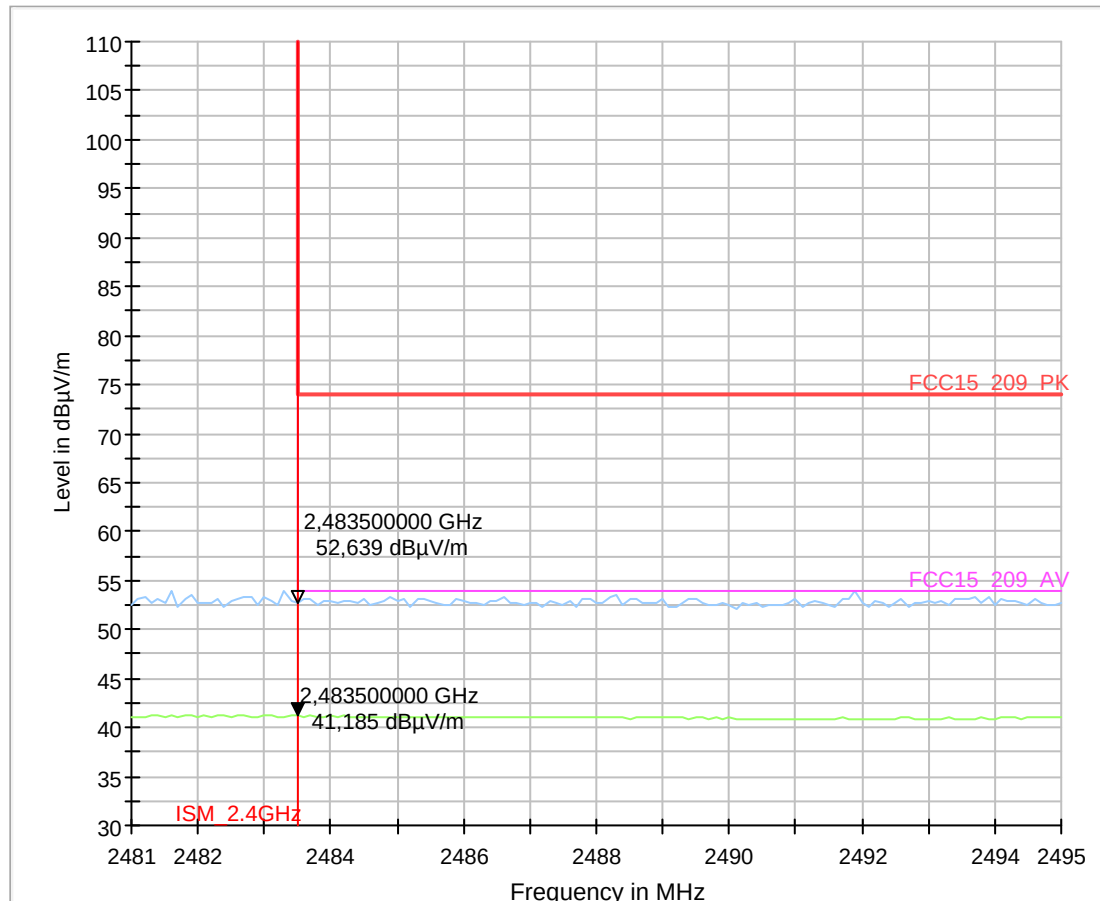
9.12_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-50Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 50 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power 12 dBm AFr
Operator Name:	With 2.4 GHz NOTCH FILTER
Measurements Performed:	

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version 3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1 (Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω .



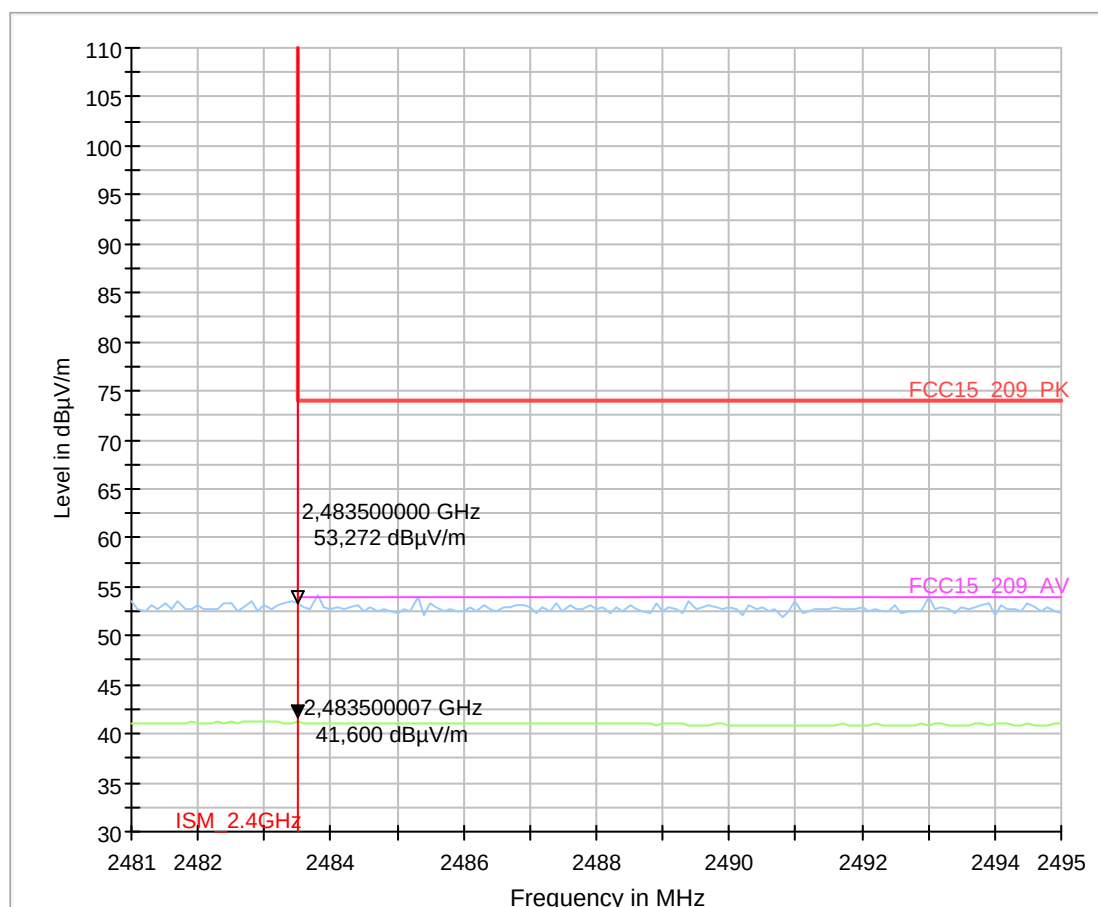
9.14_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-100Kbps- Ch69- PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 100 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power 12dBm AFr
Operator Name:	With 2.4 GHz NOTCH FILTER
Measurements Performed:	

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50Ω.



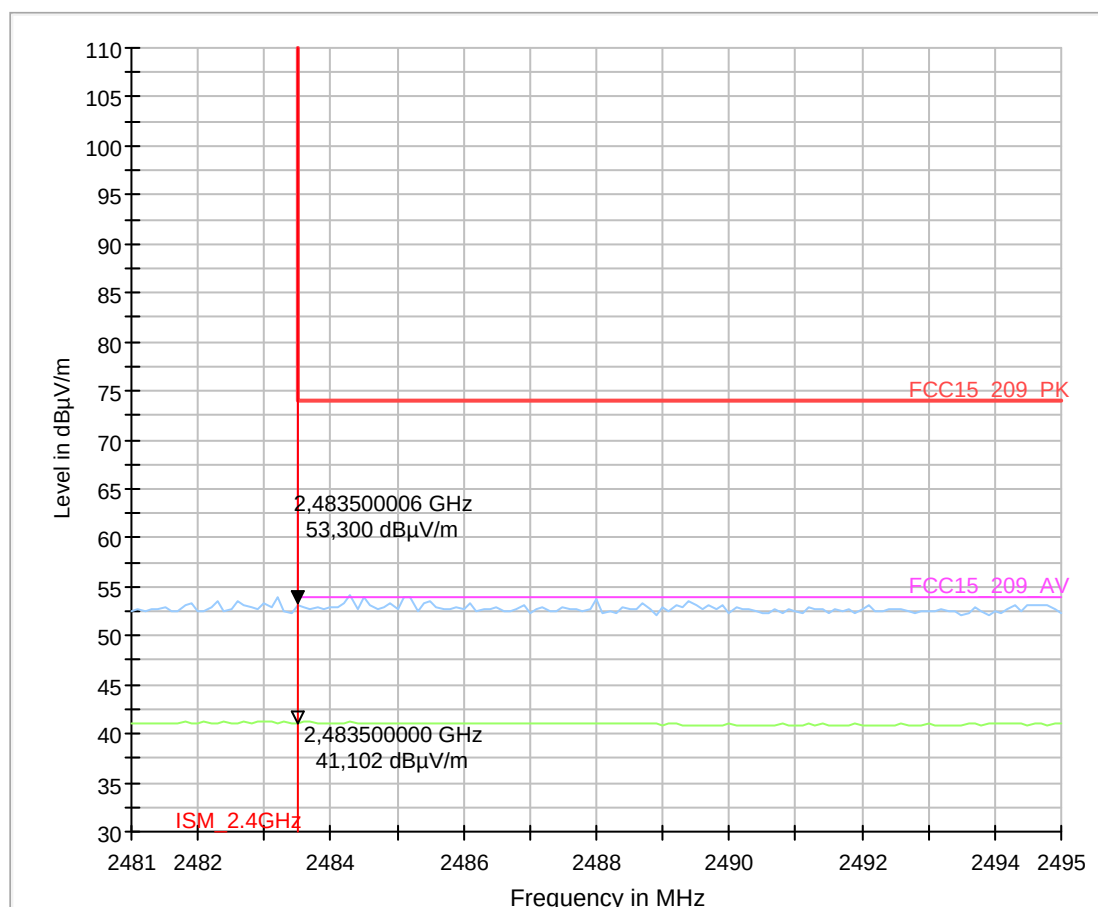
9.16_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps- Ch69- PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 250 Kbps 69 (2471.5 MHz) Fixed Channel (modulated Power 12dBm)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50Ω.



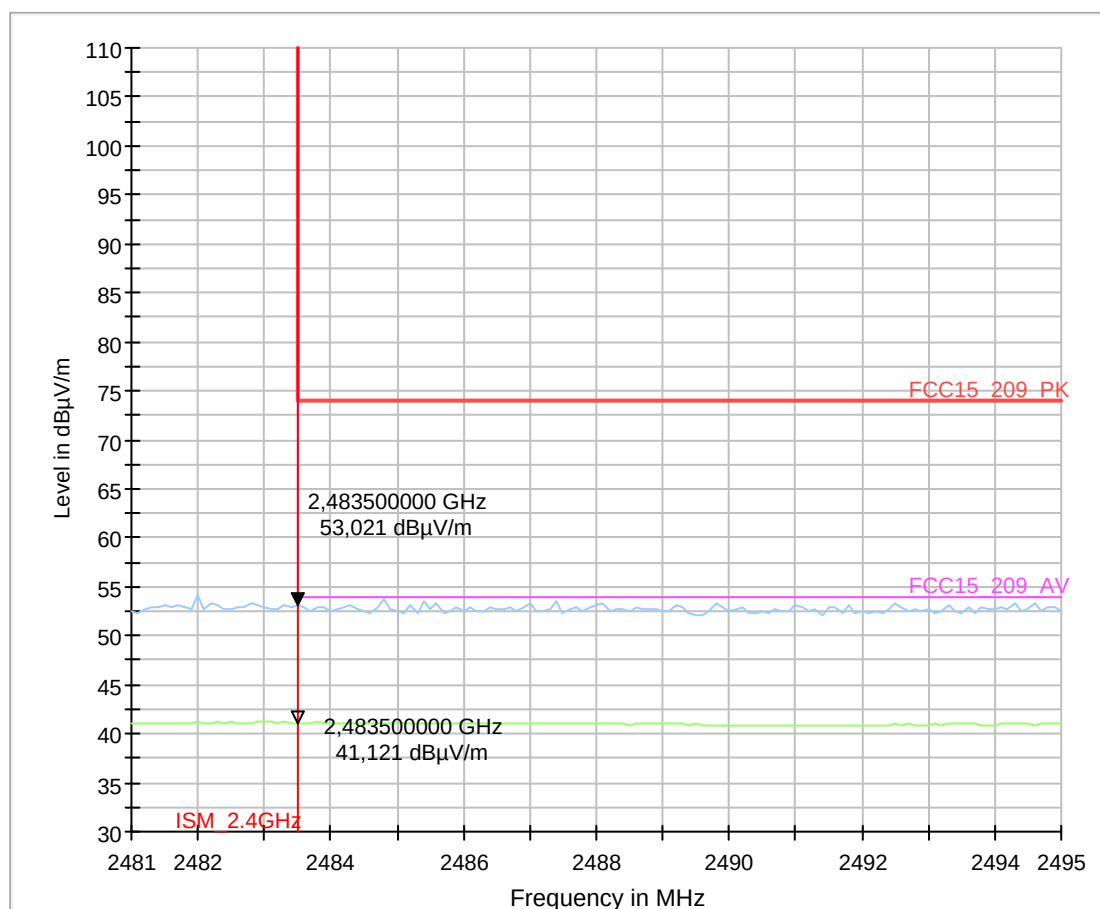
9.18_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps- Ch69- PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 500 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power 12dBm AFr
Operator Name:	With 2.4 GHz NOTCH FILTER
Measurements Performed:	

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50Ω.



3.5.3. Low Channel Hopping Mode (2.4 GHz ISM: left band edge)

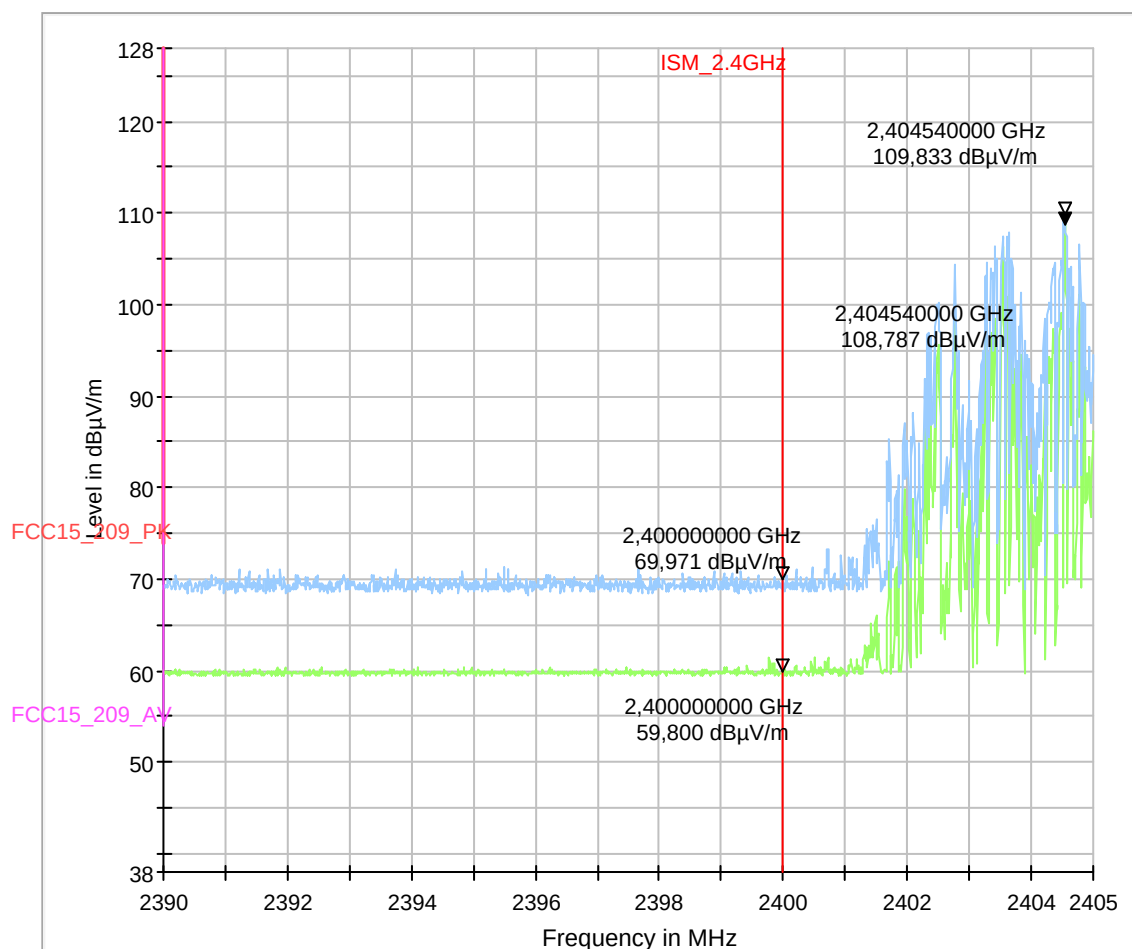
9.19a_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port)
	MSK 500 Kbps Hopping Mode (Master)
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50Ω.



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3]

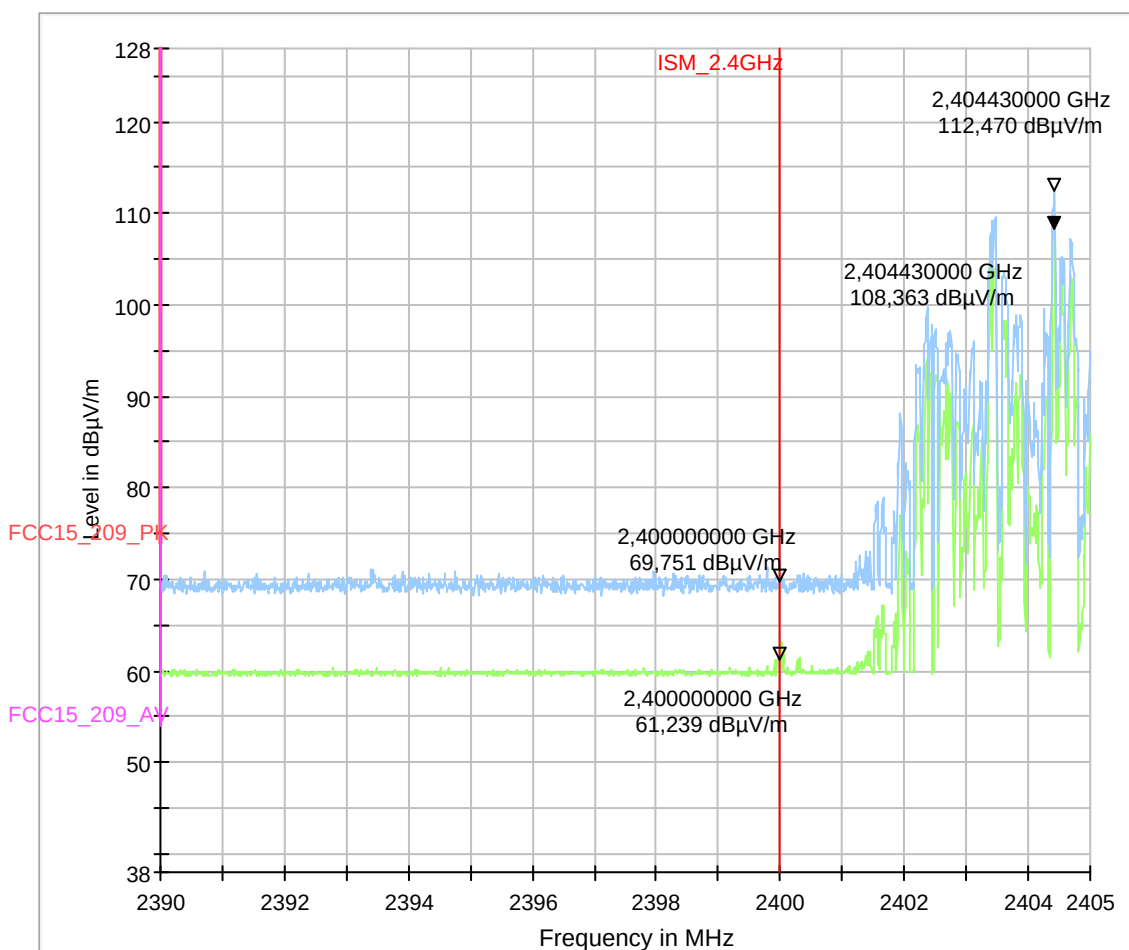
9.20a_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port)
	MSK 250 Kbps Hopping Mode (Master)
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω .



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 3.3]

3.5.4. High Channel Hopping Mode (2.4 GHz ISM: left band edge)

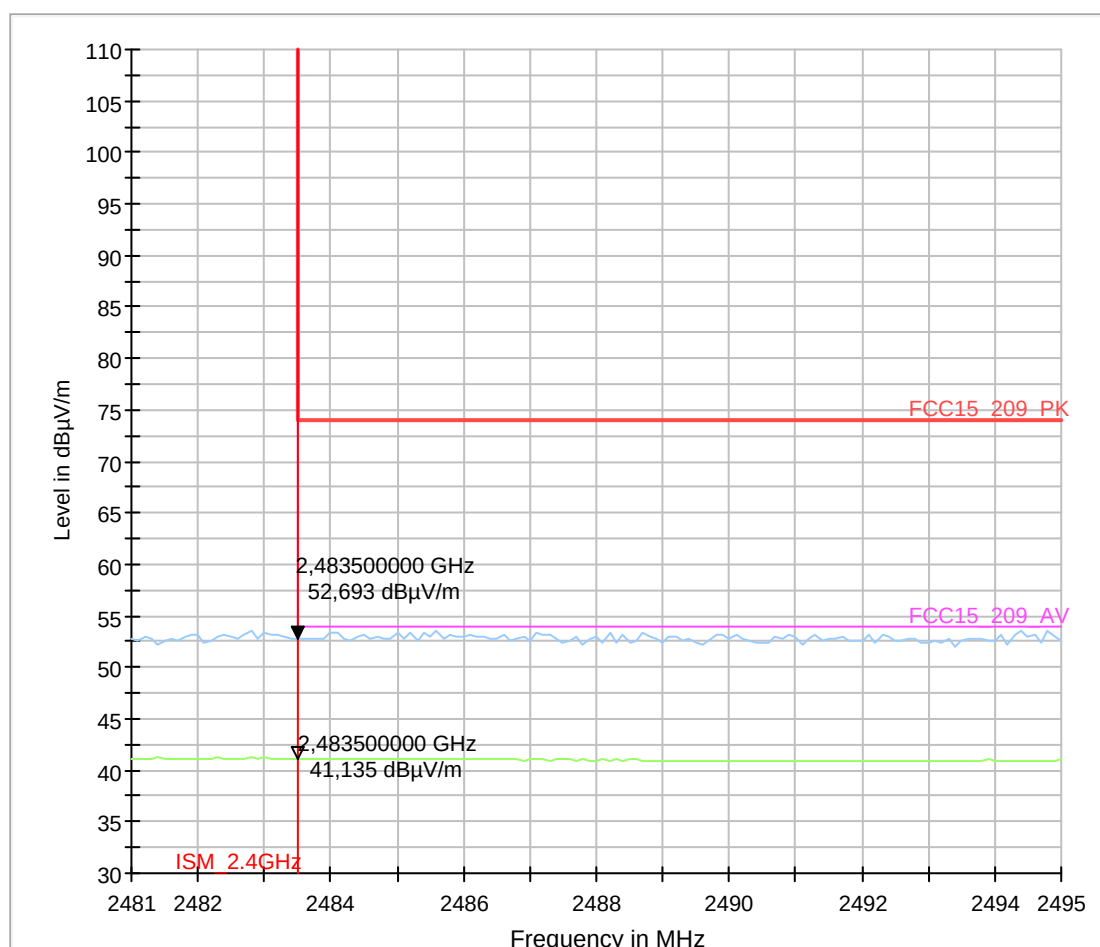
9.19b_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-500Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower 2.4 GHz Port) MSK 500 Kbps Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length Using RCM24G TestTool_V3_70Channels Software
Test Mode Settings:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Module Power Supply:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50 Ω .
Comments:	



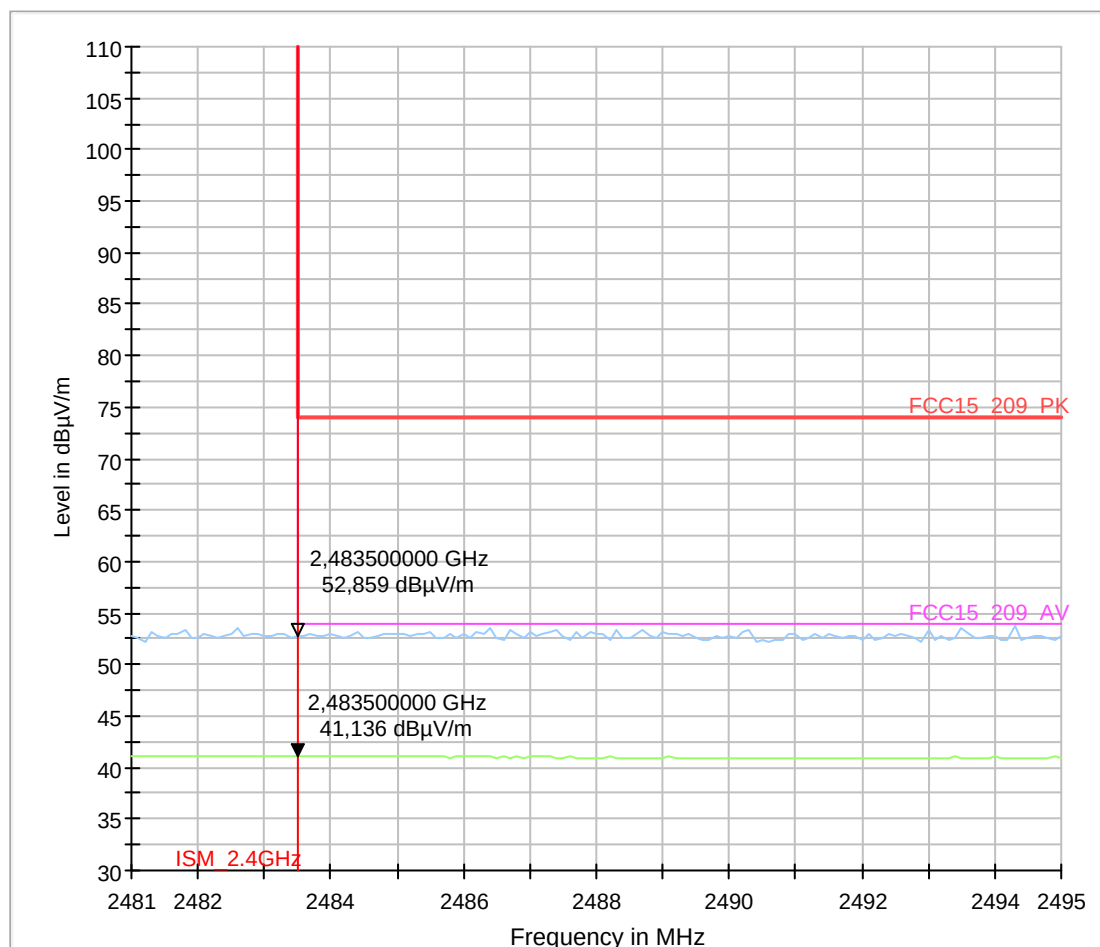
9.20b_BE-RCM24G+INTEL FA5 Ant-Port1-MSK-250Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 1 (Lower2.4 GHz Port) MSK 250 Kbps Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	CM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT1
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	3.19 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 1(Lower 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length Using RCM24G TestTool_V3_70Channels Software
Test Mode Settings:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Module Power Supply:	Unused INTEL FA5 Antenna ports (Port: 5 2 3 4) are terminated with 50Ω
Comments:	



Radiated Field Strength Measurements

RCM24G

+

INTEL FA5 ANTENNA PORT 5

4. Radiated Field Strength Measurements-RCM24G + INTEL FA5 ANTENNA-PORT 5

4.1. Radiated Field Strength Emissions - 9kHz to 30MHz

2.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

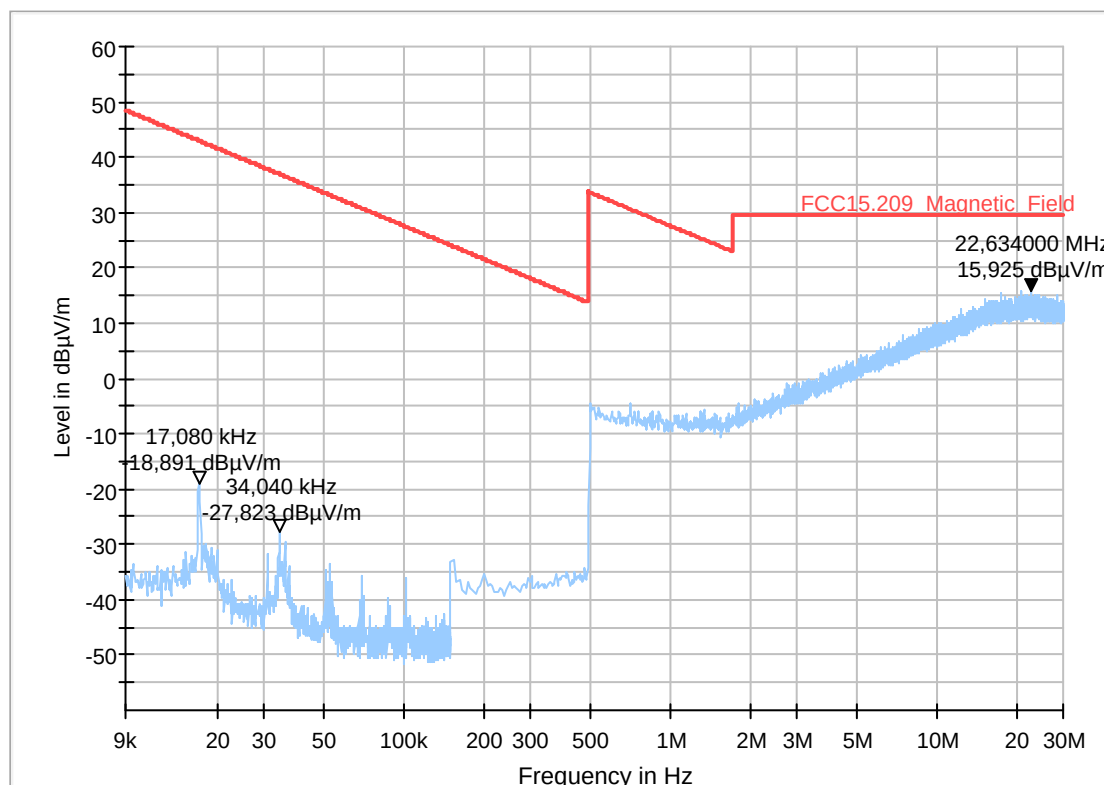
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	AFr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5
	MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply

Full Spectrum



2.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69- PWR+12dBm

Common Information

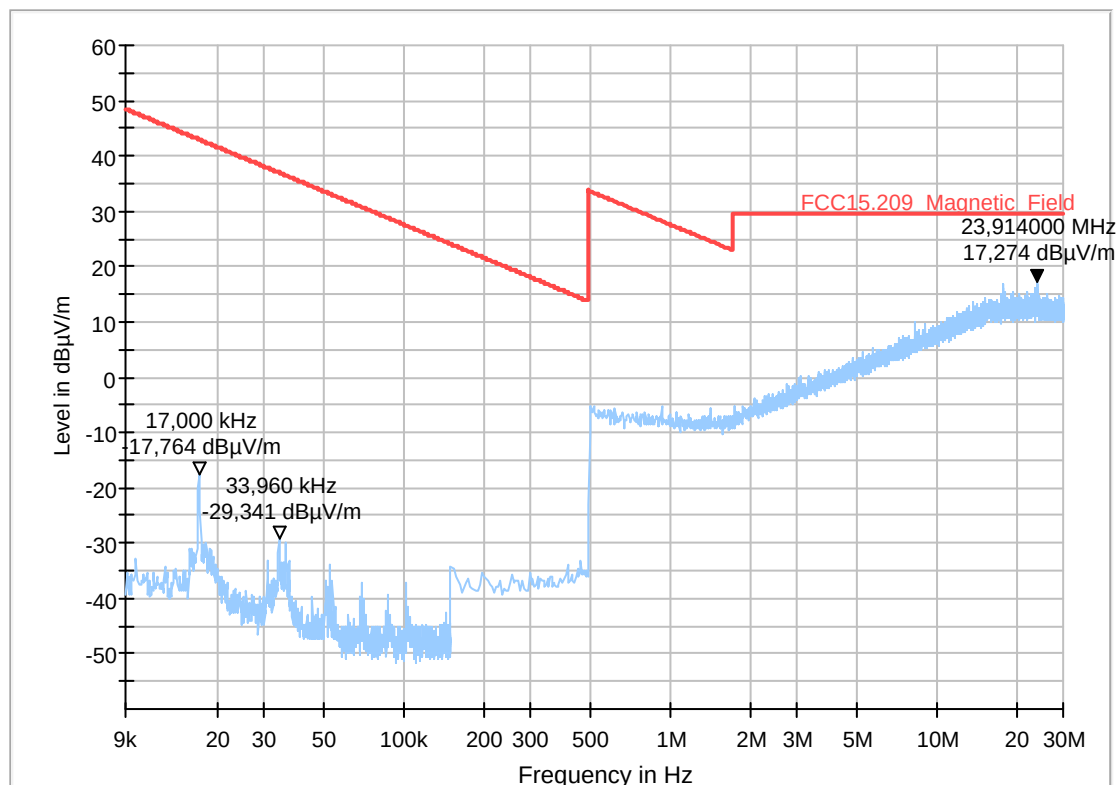
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see 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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFR
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm 3.6 V DC (direct to RCM24G) using Laboratory Power Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

Full Spectrum



2.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12dBm

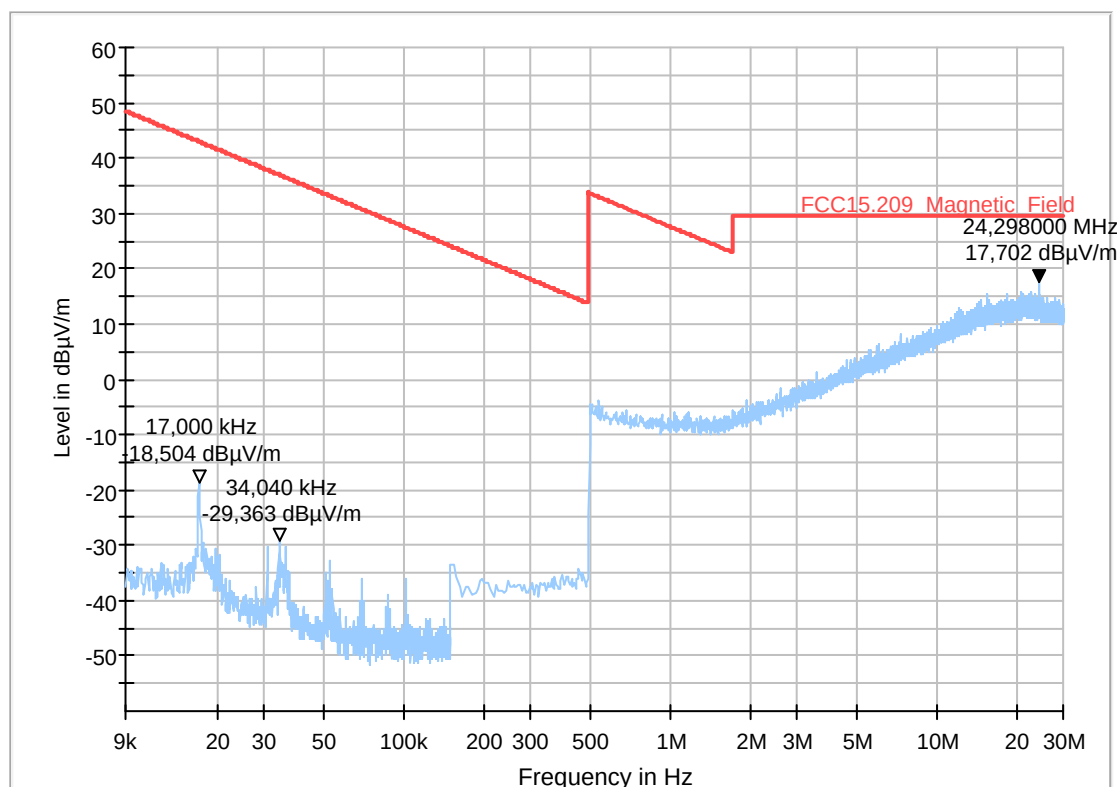
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	Tfr
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)
	Power:+12dBm
Power during tests:	3.6 V DC (direct to RCM24G) using Laboratory Power Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

Full Spectrum



2.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

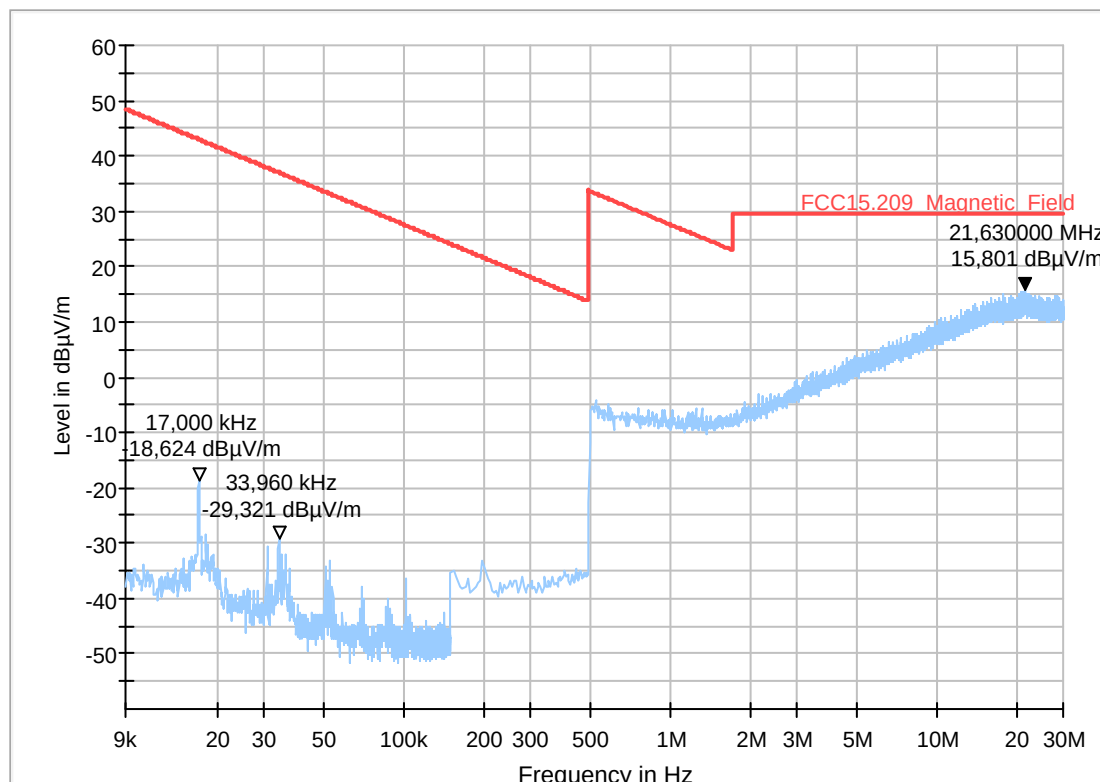
Common Information

Test description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	used accord. table, pls. see test report
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 specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	TFR
Operating mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm 3.6 V DC (direct to RCM24G) using Laboratory Power Supply
Power during tests:	

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

Full Spectrum



4.2. Radiated Field Strength Emissions - 30MHz to 1GHz

3.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

Common Information

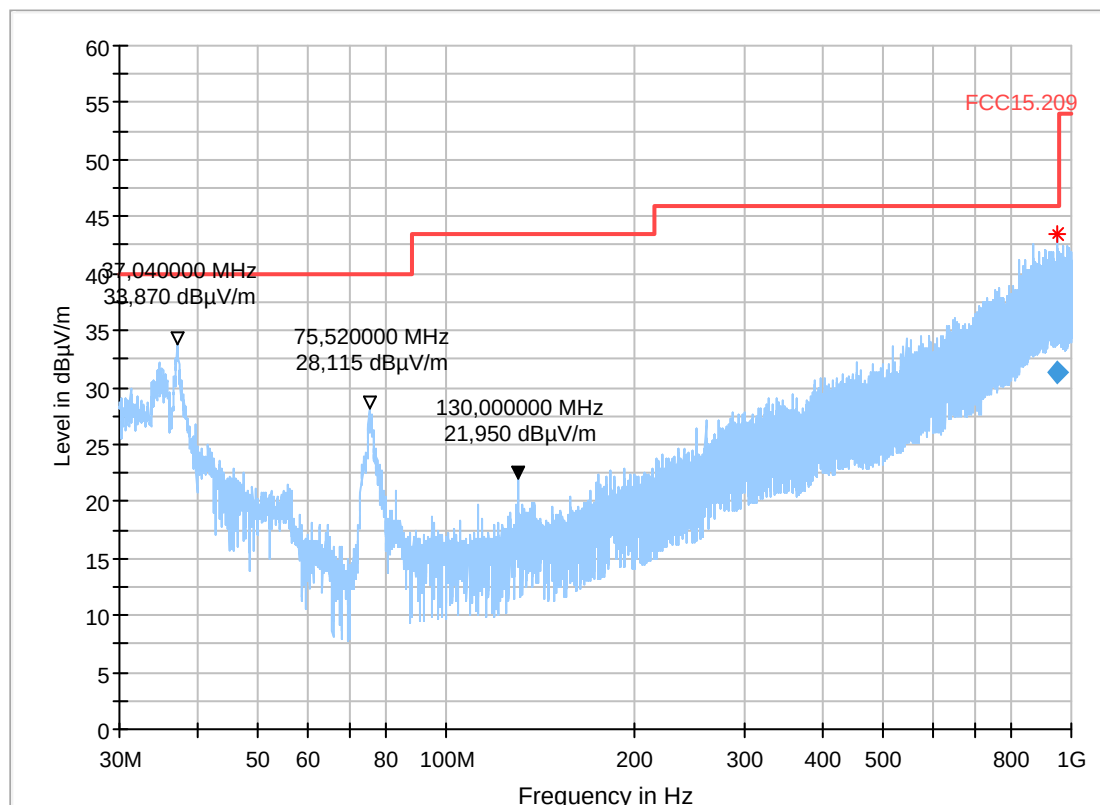
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	Afr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power:+12dBm 3.6 V DC Using Laboratory Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length Using RCM24G TestTool_V3_70Channels Software
Test Mode Settings:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50Ω.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
946.664000	31.29	46.00	14.71	1000.0	120.000	315.0	V	89.0	90.0	27.0

3.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69- PWR+12dBm

Common Information

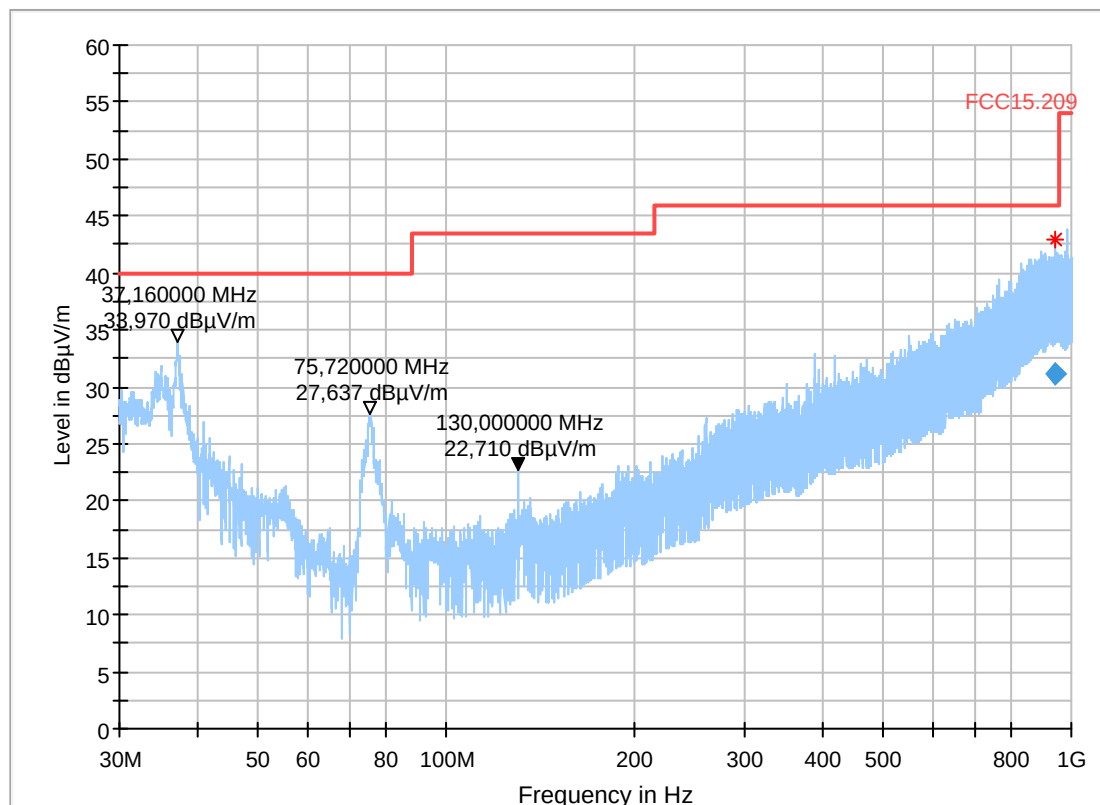
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	Afr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm 3.6 V DC Using Laboratory Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length Using RCM24G TestTool_V3_70Channels Software
Test Mode Settings:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω .

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
941.192000	31.17	46.00	14.83	1000.0	120.000	282.0	H	143.0	90.0	26.8

3.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12dBm

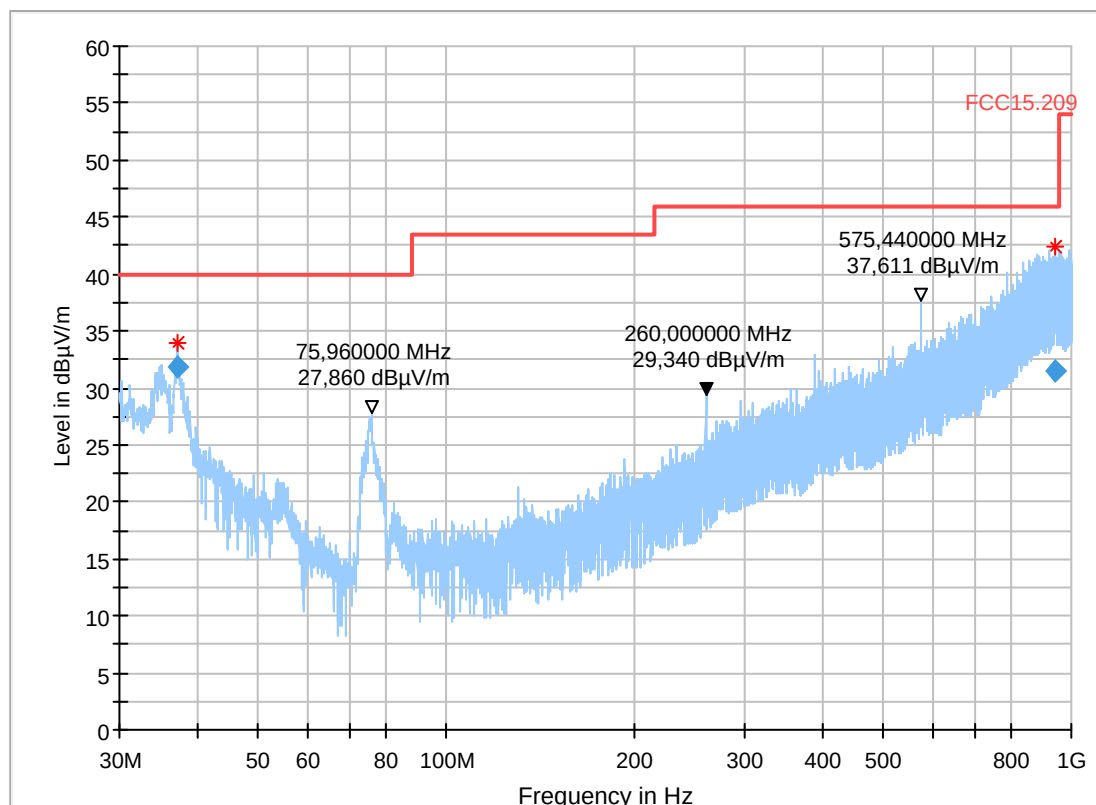
Common Information

Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	AFr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power:+12dBm
Power during tests:	3.6 V DC Using Laboratory Supply

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
37.192000	31.77	40.00	8.23	1000.0	120.000	284.0	H	132.0	90.0	18.3
945.000000	31.44	46.00	14.57	1000.0	120.000	248.0	H	218.0	90.0	27.1

3.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

Common Information

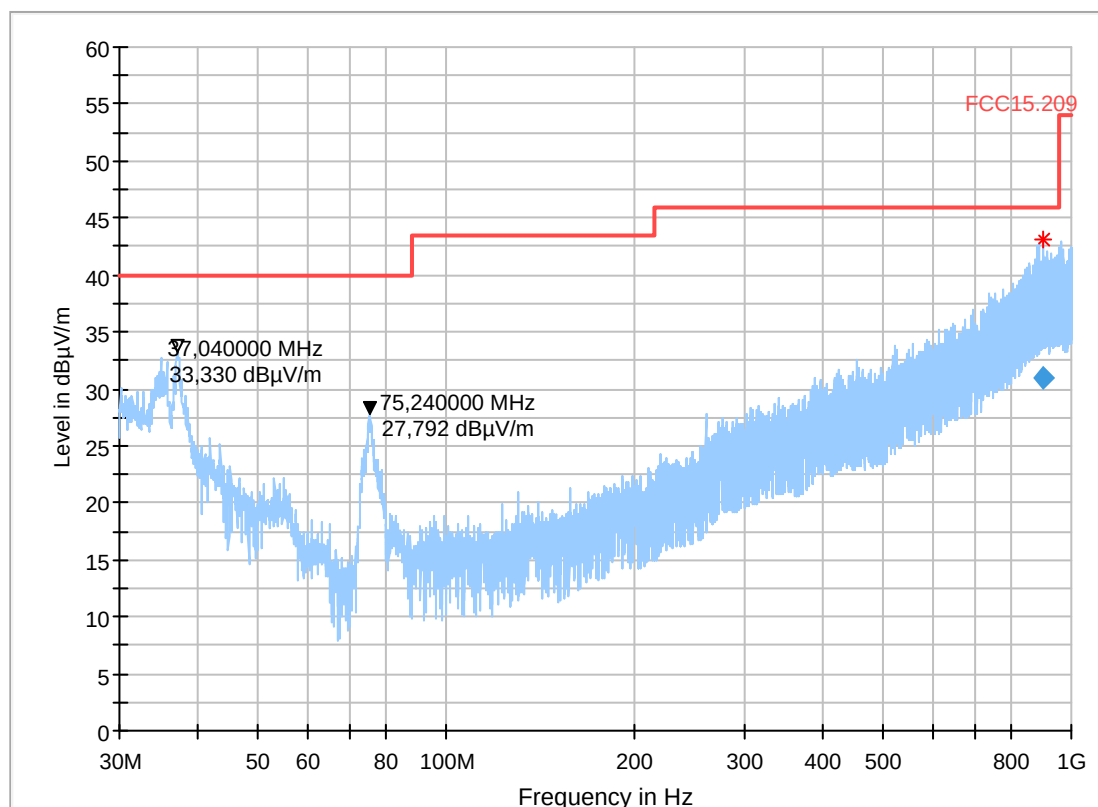
Test description:	Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Distance correction:	not used
Used filter:	not used
Technical Data:	please see page 2 for detailed data of measurement setup
Test specification.:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Operator:	Afr
Operating conditions:	TX-Continuous RCM24G+INTEL FA5 Antenna Port 5 MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power:+21dBm 3.6 V DC Using Laboratory Supply

Power during tests:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length Using RCM24G TestTool_V3_70Channels Software
Test Mode Settings:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
903.392000	30.96	46.00	15.04	1000.0	120.000	276.0	V	104.0	90.0	26.7

4.3. Radiated Field Strength Emissions - 1GHz to 18GHz

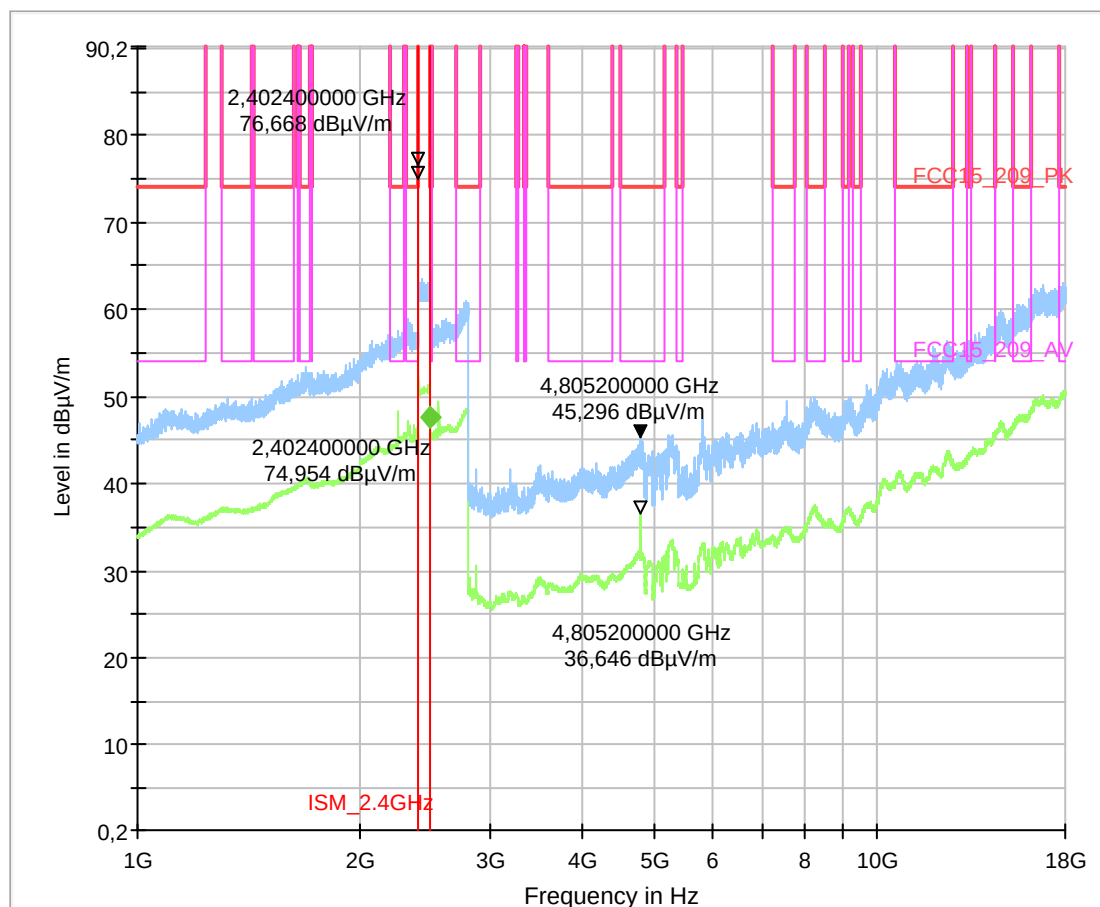
4.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

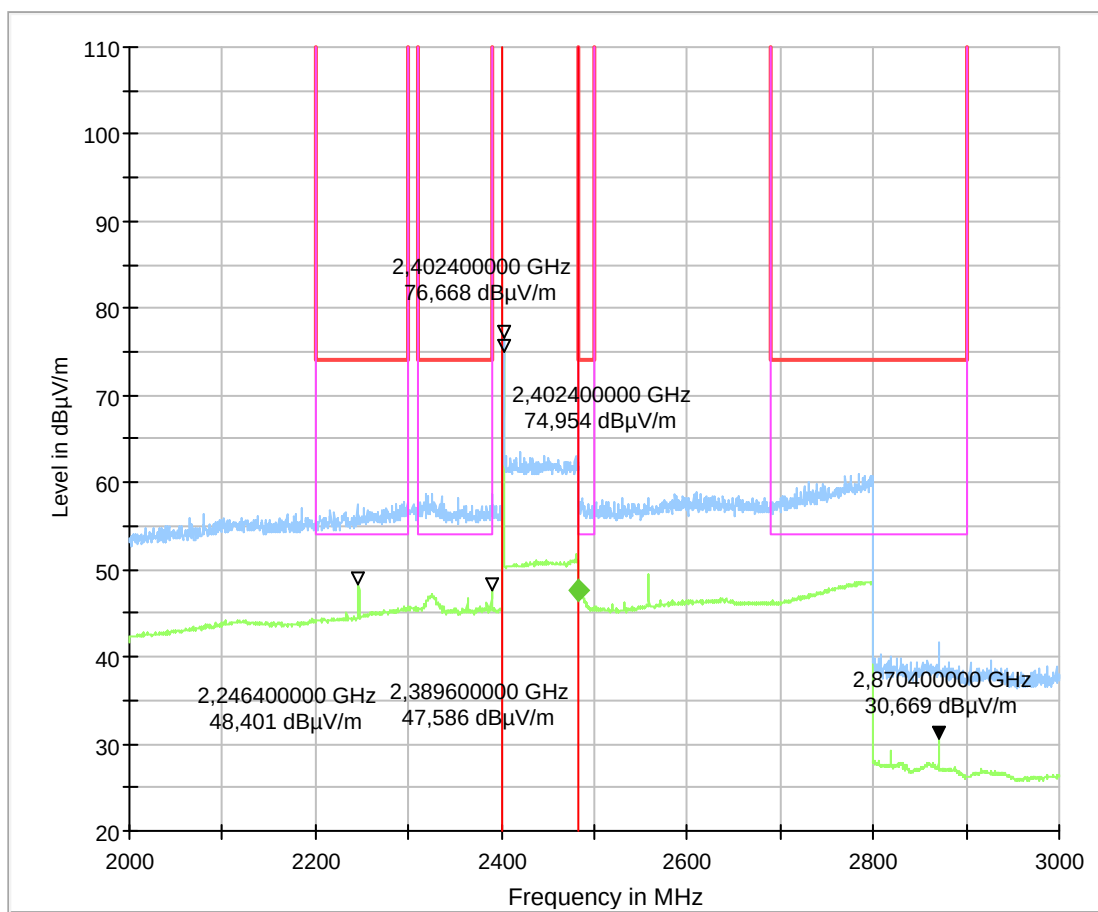
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated)-Power:+12dBm TFR
Operator Name:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency
Measurements Performed:	

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band-width (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2483.500000	47.59	54.00	6.41	100.0	1000.000	155.0	H	270.0	90.0	35.6

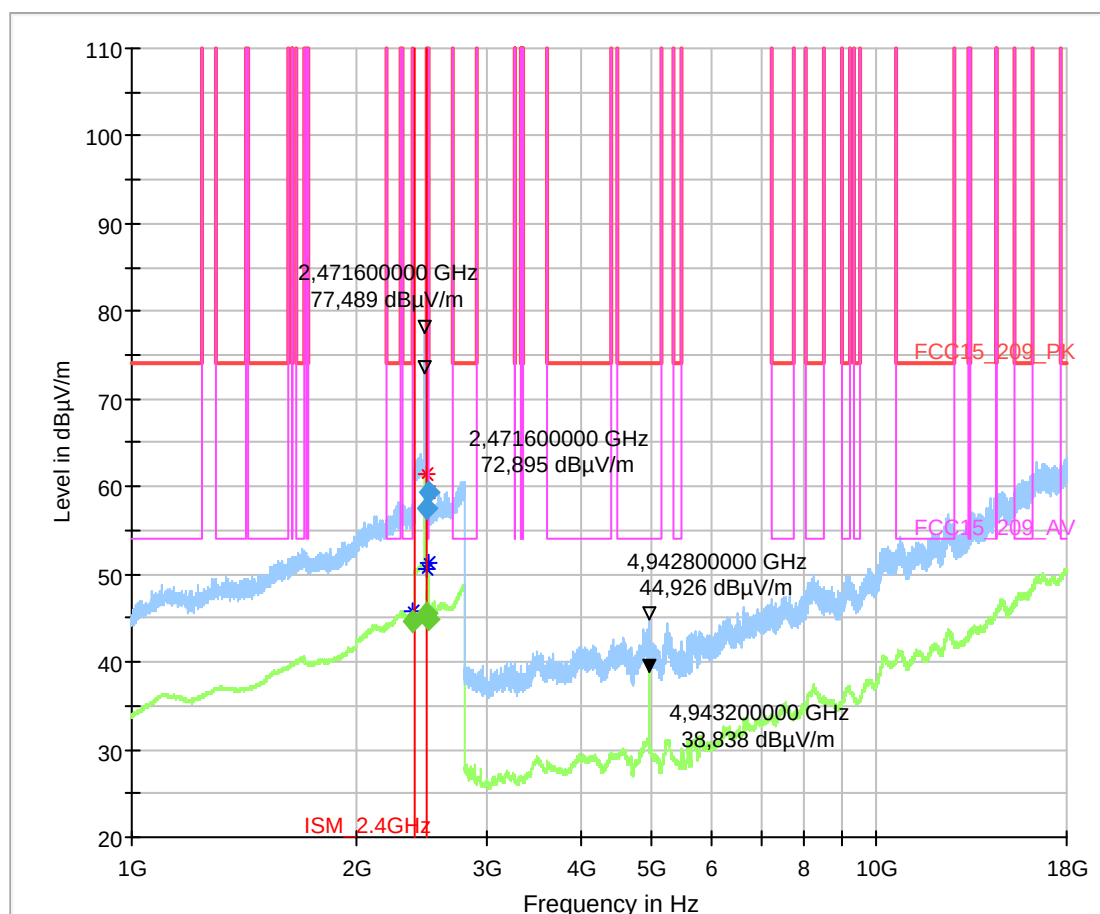
4.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69- PWR+12dBm

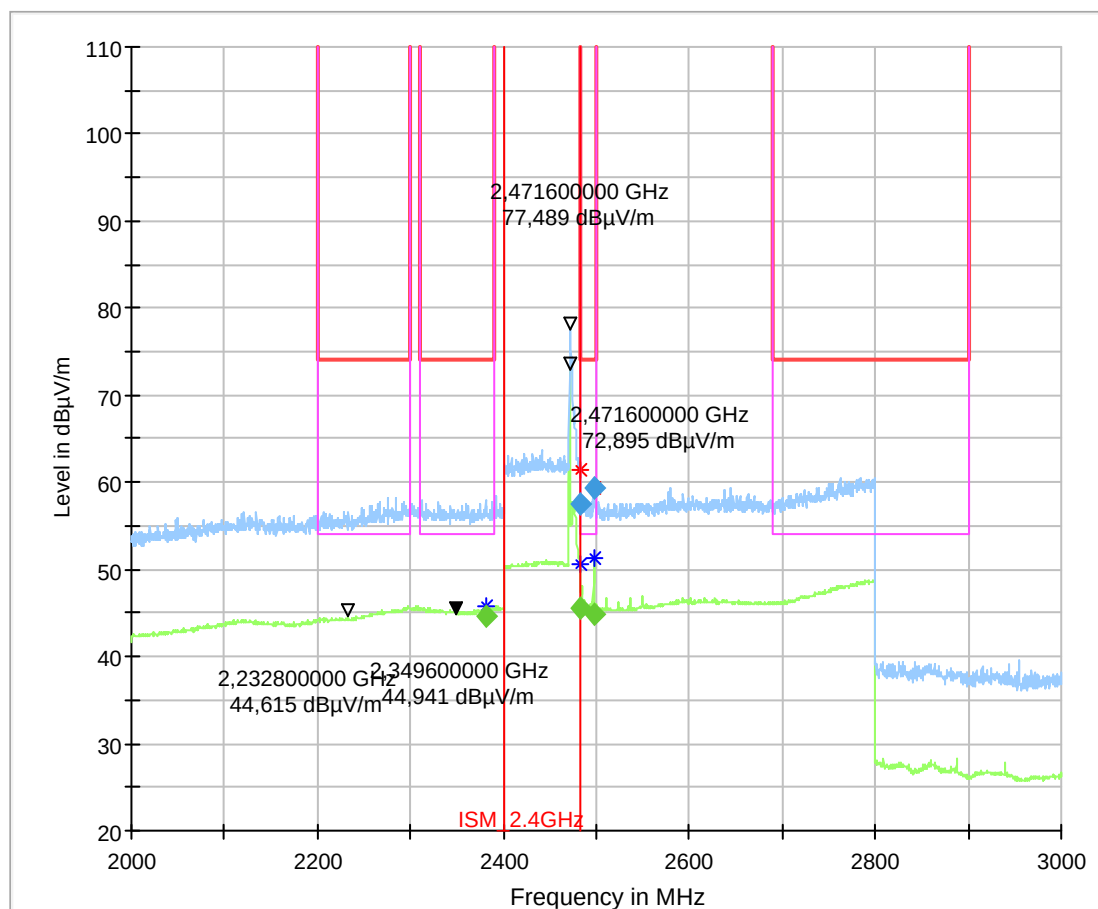
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5
Operator Name:	MSK 100 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power:+12dBm
Measurements Performed:	PSa With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)
2380.530000	---	44.68	54.00	9.32	100.0	1000.000	155.0
2483.500000	---	45.56	54.00	8.44	100.0	1000.000	155.0
2483.500000	57.59	---	74.00	16.41	100.0	1000.000	155.0
2496.950000	---	44.95	54.00	9.05	100.0	1000.000	155.0
2497.550000	59.39	---	74.00	14.61	100.0	1000.000	155.0

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

Frequency (MHz)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2380.530000	V	270.0	0.0	35.5
2483.500000	H	139.0	0.0	35.6
2483.500000	H	218.0	0.0	35.6
2496.950000	H	282.0	90.0	35.6
2497.550000	V	151.0	0.0	35.6

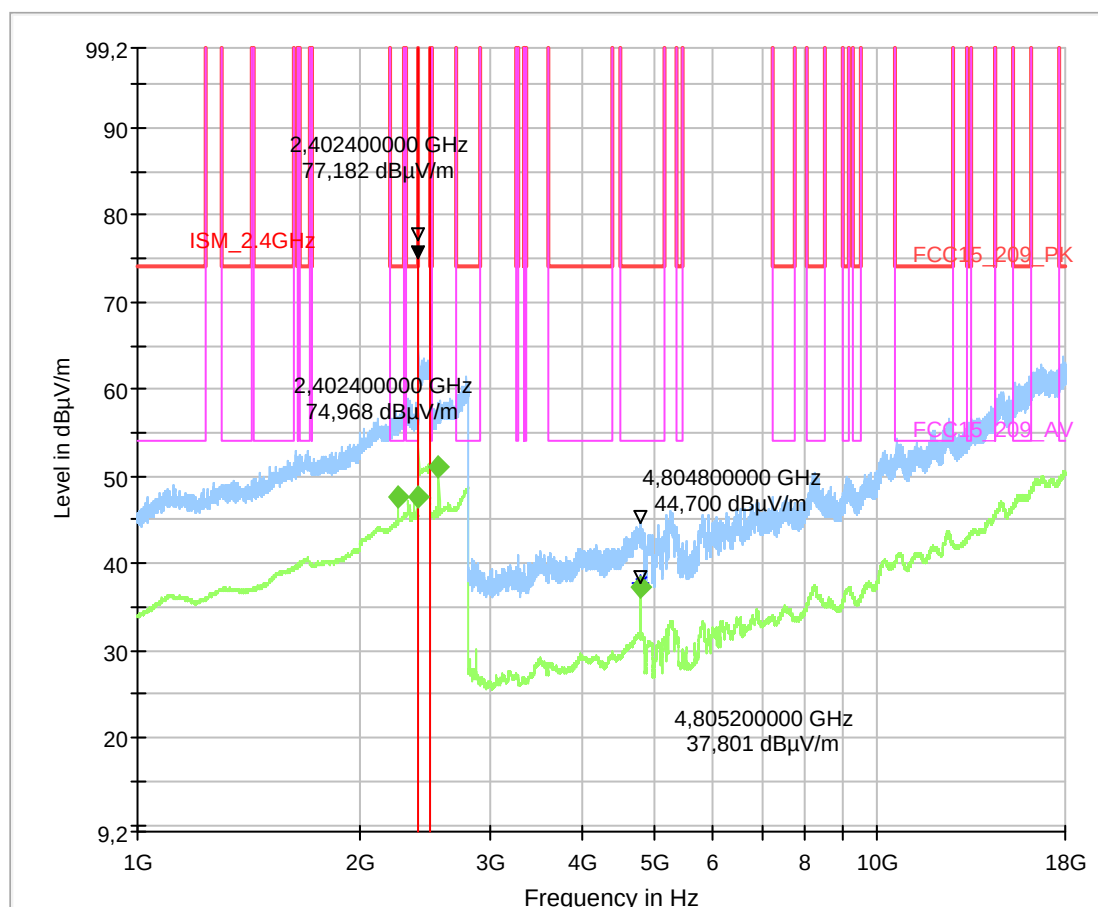
4.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0- PWR +12 dBm

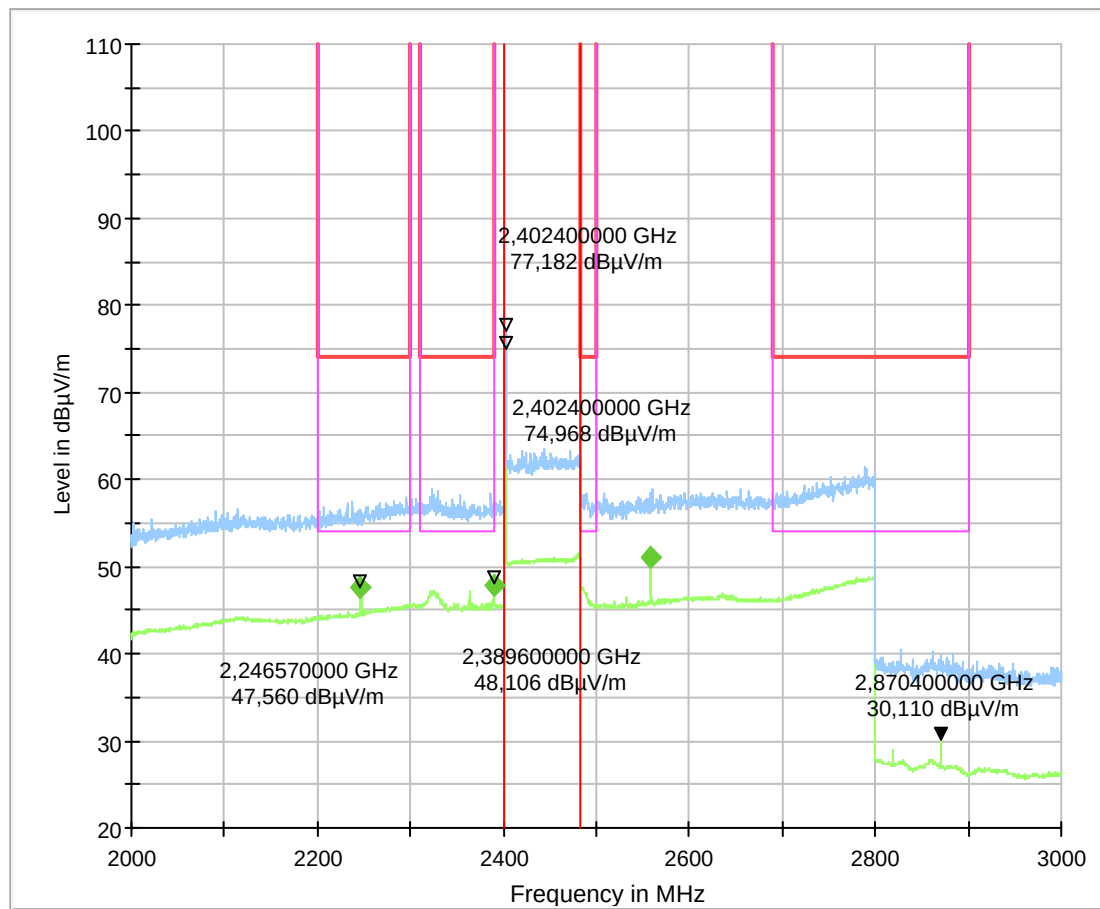
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power +12 dBm
Operator Name:	TFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω





Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band-width (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2246.570000	47.56	54.00	6.44	100.0	1000.000	155.0	H	253.0	90.0	34.8
2389.450000	47.74	54.00	6.26	100.0	1000.000	155.0	H	272.0	90.0	35.5
2558.550000	51.01	150.00	99.00	100.0	1000.000	155.0	V	280.0	0.0	36.0
4805.210000	37.36	54.00	16.64	100.0	1000.000	155.0	V	139.0	0.0	4.9

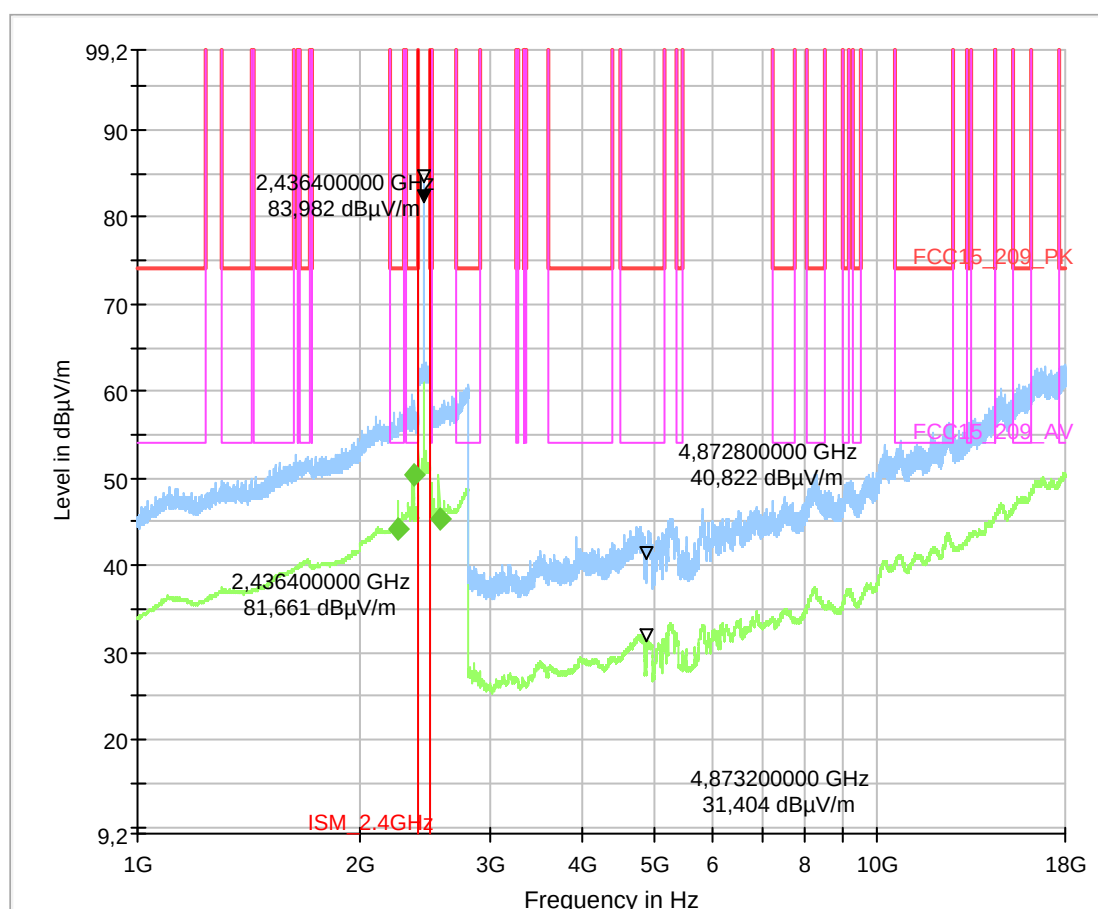
4.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

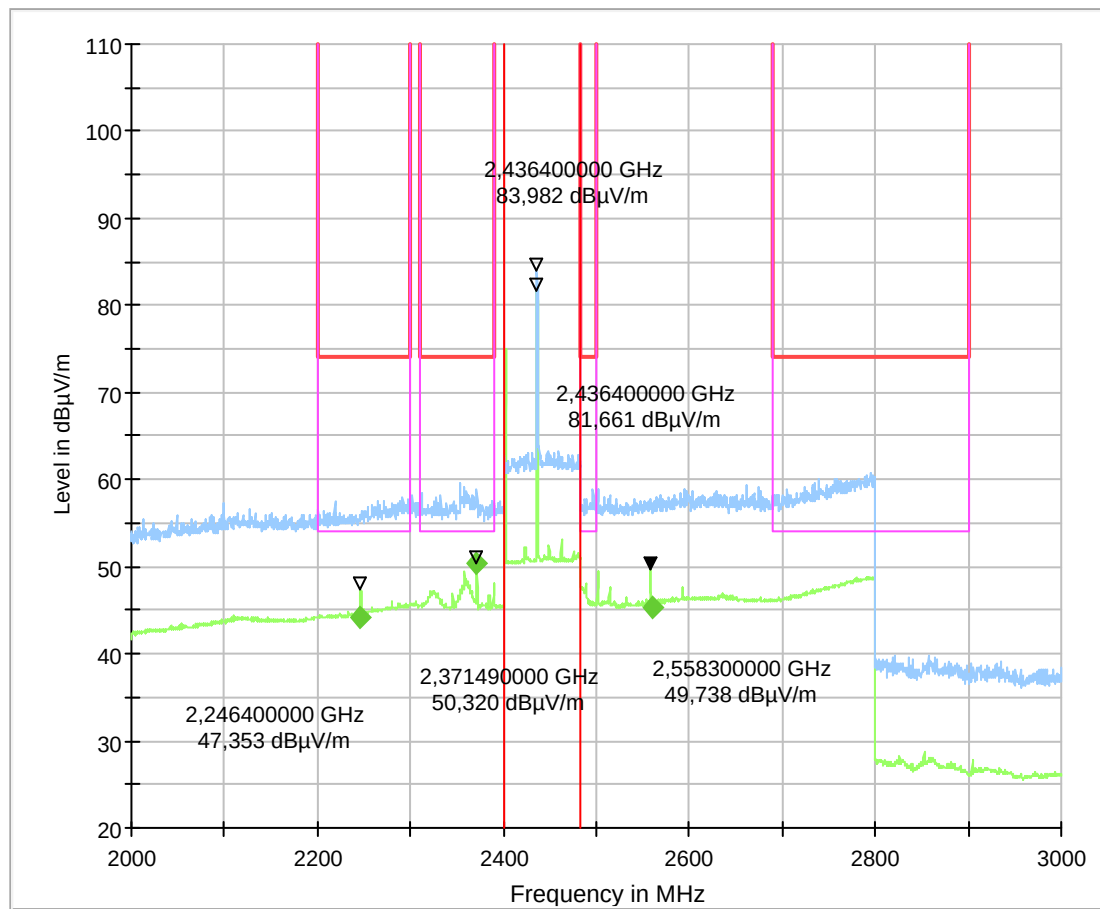
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5
Operator Name:	MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated) Power +21dBm
Measurements Performed:	TFR With 2.4 GHz NOTCH FILTER Tuned to relevant channel frequency

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω





Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band-width (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
2245.730000	44.10	54.00	9.90	100.0	1000.000	155.0	H	245.0	90.0	34.8
2371.490000	50.32	54.00	3.68	100.0	1000.000	155.0	H	277.0	90.0	35.5
2559.270000	45.33	150.00	104.67	100.0	1000.000	155.0	V	251.0	0.0	36.0

4.4. Radiated Field Strength Emissions - 18GHz to 25GHz

4.21a_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm

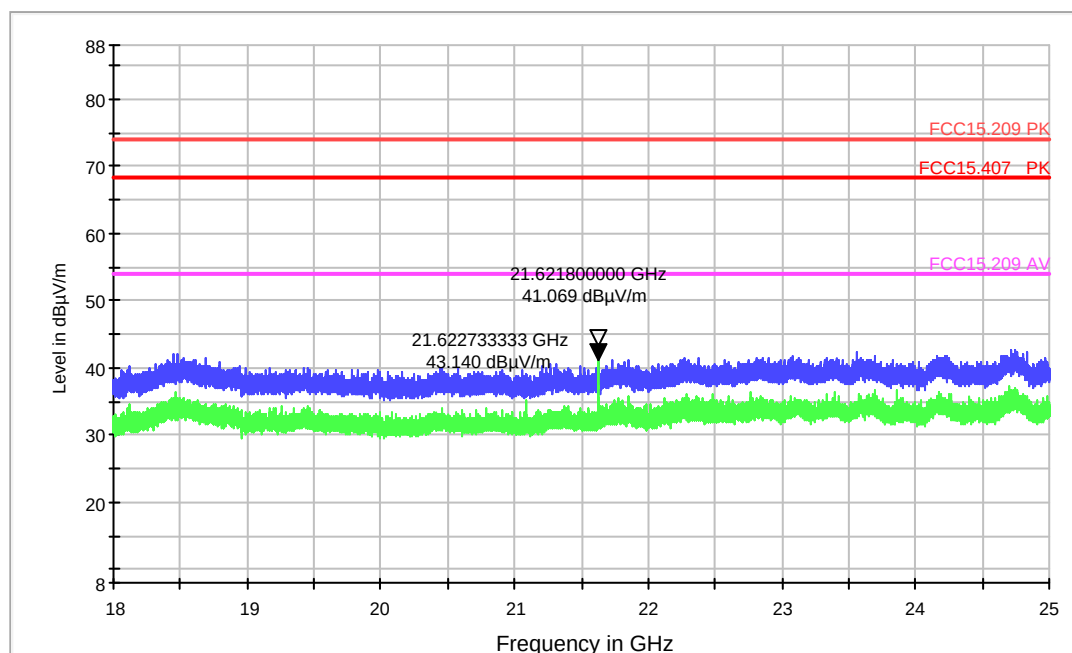
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power : +12dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.22a_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm

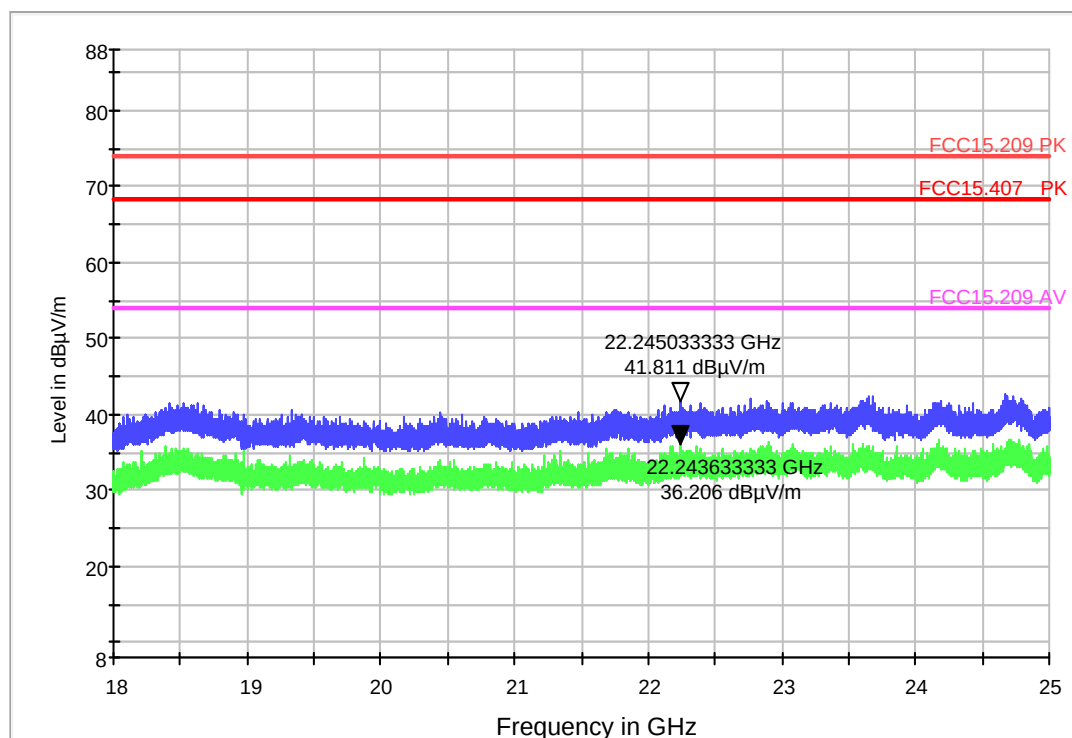
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK 100 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) +12dBm Power Settings: +12dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.23a_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0-PWR +12dBm

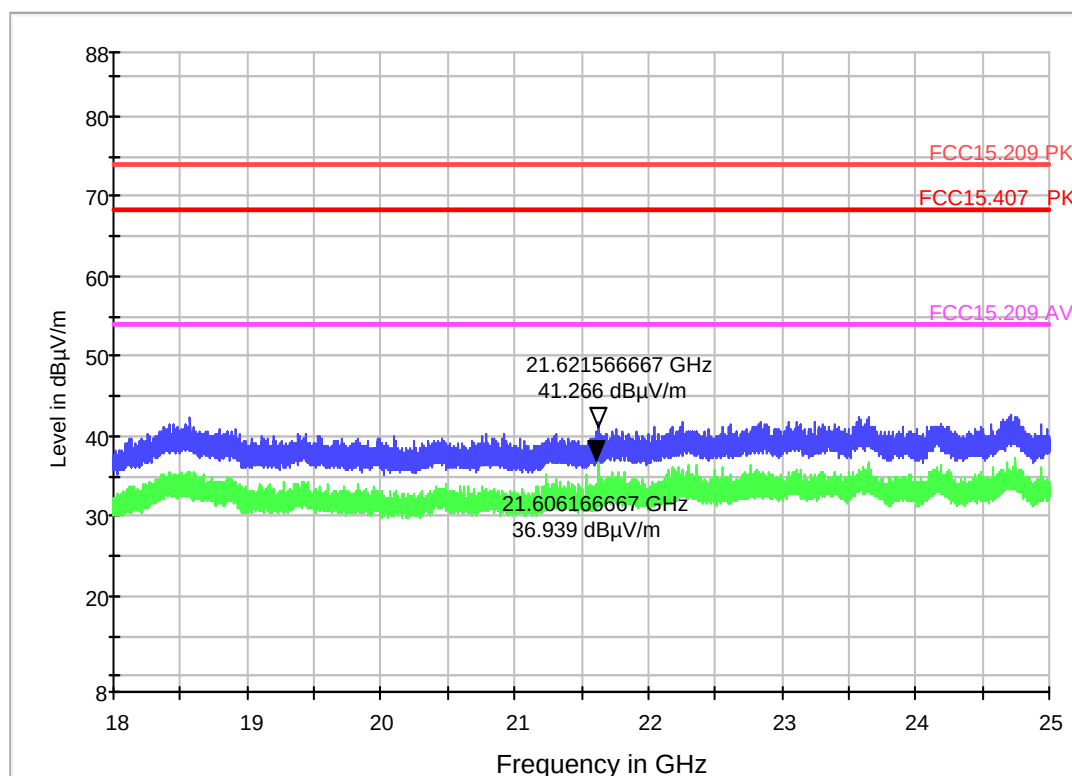
Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power:+12dBm
Operator Name:	TFR

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.24a_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34-PWR +21dBm

Common Information

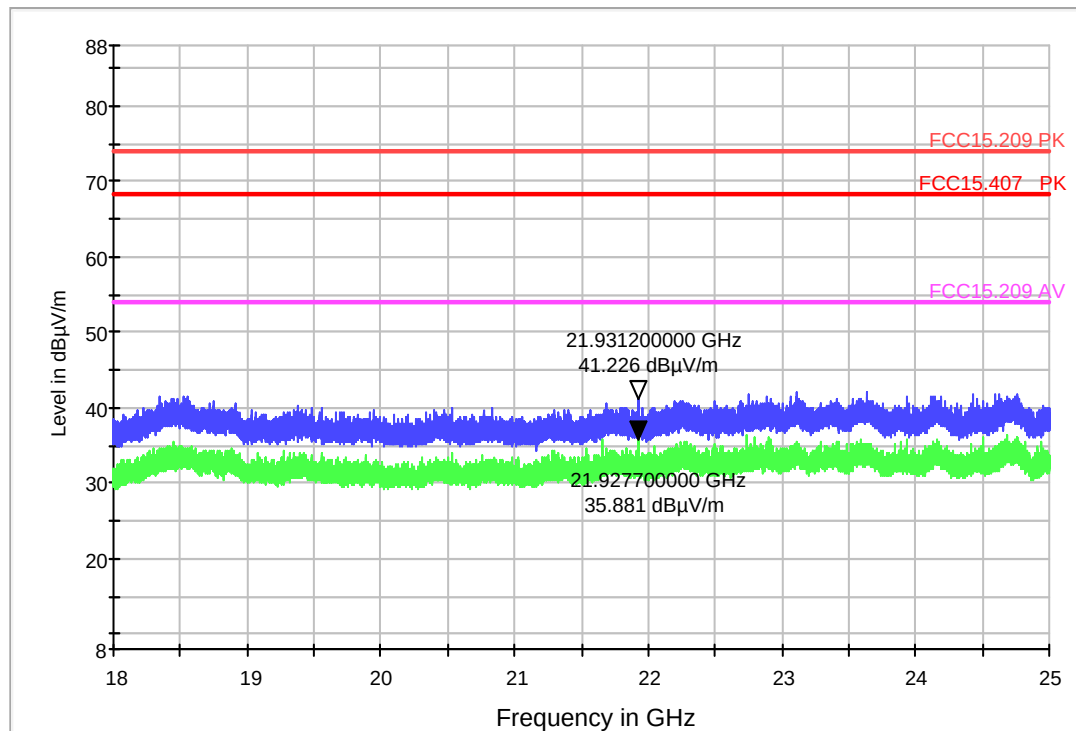
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX-Continuous RCM24G+ INTEL FA5 ANTENNA-PORT5 MSK 500 Kbps 34 (2436.5 MHz) Fixed Chanel (modulated Power:+21dBm

Operator Name: TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω terminations.

FCC_Sweep_15.247_18_25GHz_Pre



4.5. Radiated Band-Edge Measurements

4.5.1. Low Channel 2402.5 MHz (2.4 GHz ISM: left band edge)

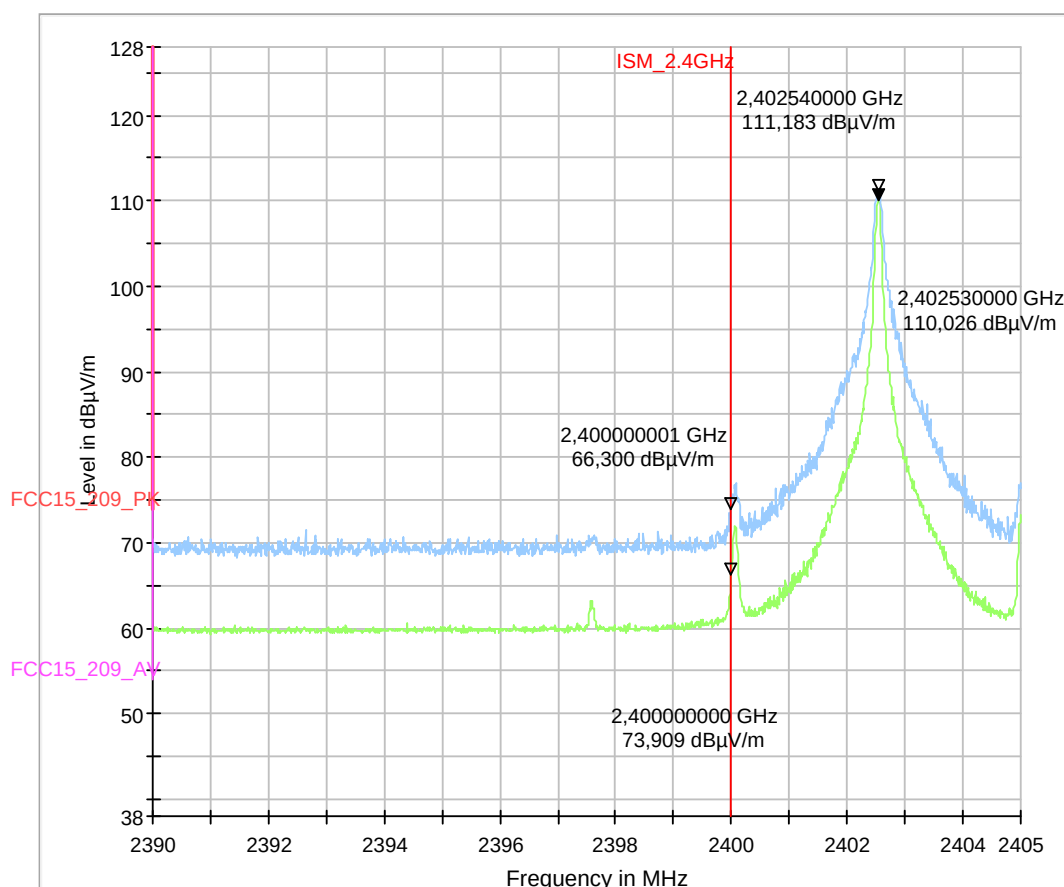
9.21_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK 50 Kbps 0 (2402.5 MHz) Fixed Chanel (modulated) Power 12 dBm TFR
Operator Name:	

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3

4.21_RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps-Ch0-PWR +12dBm]

9.23_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps-Ch0-PWR+12dBm

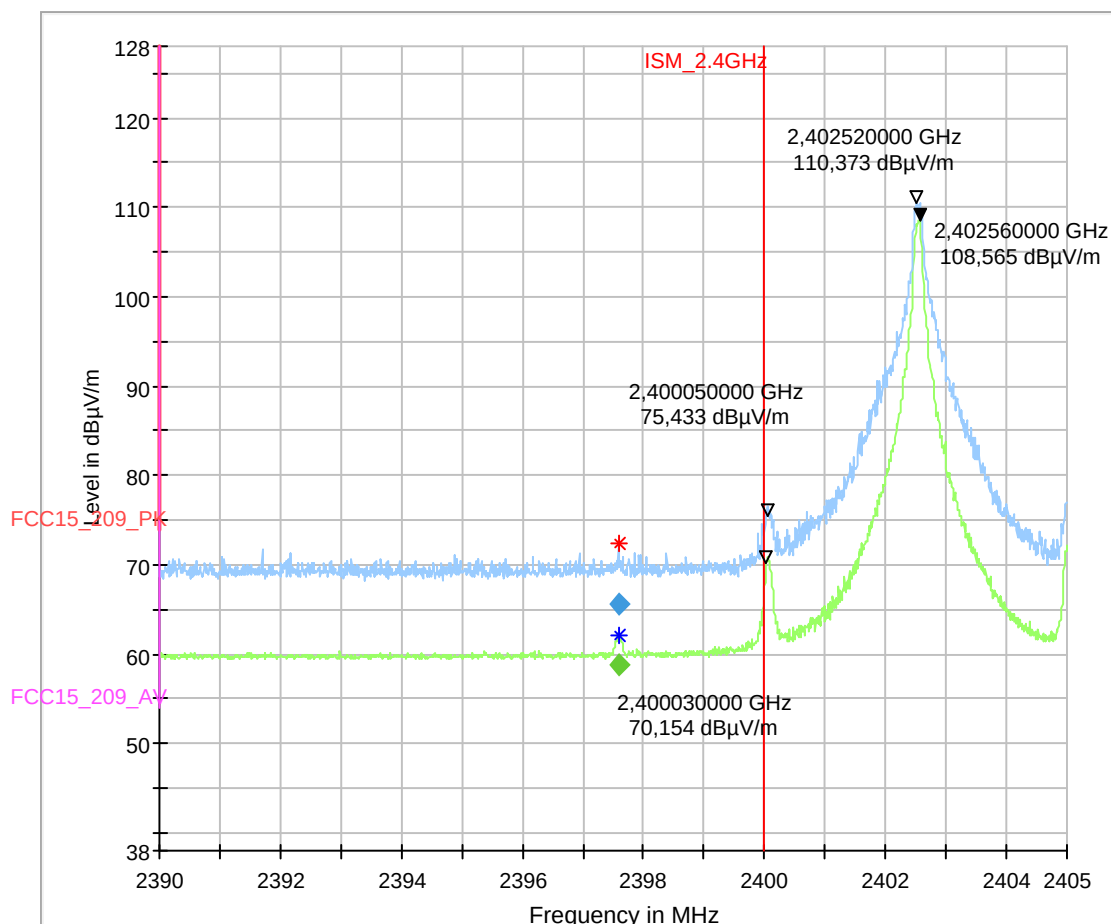
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port)
	MSK 100 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power 12dBm
	TFR

Operator Name:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3
4.22_RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69-PWR+12dBm]

9.25_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps-Ch0-PWR+12dBm

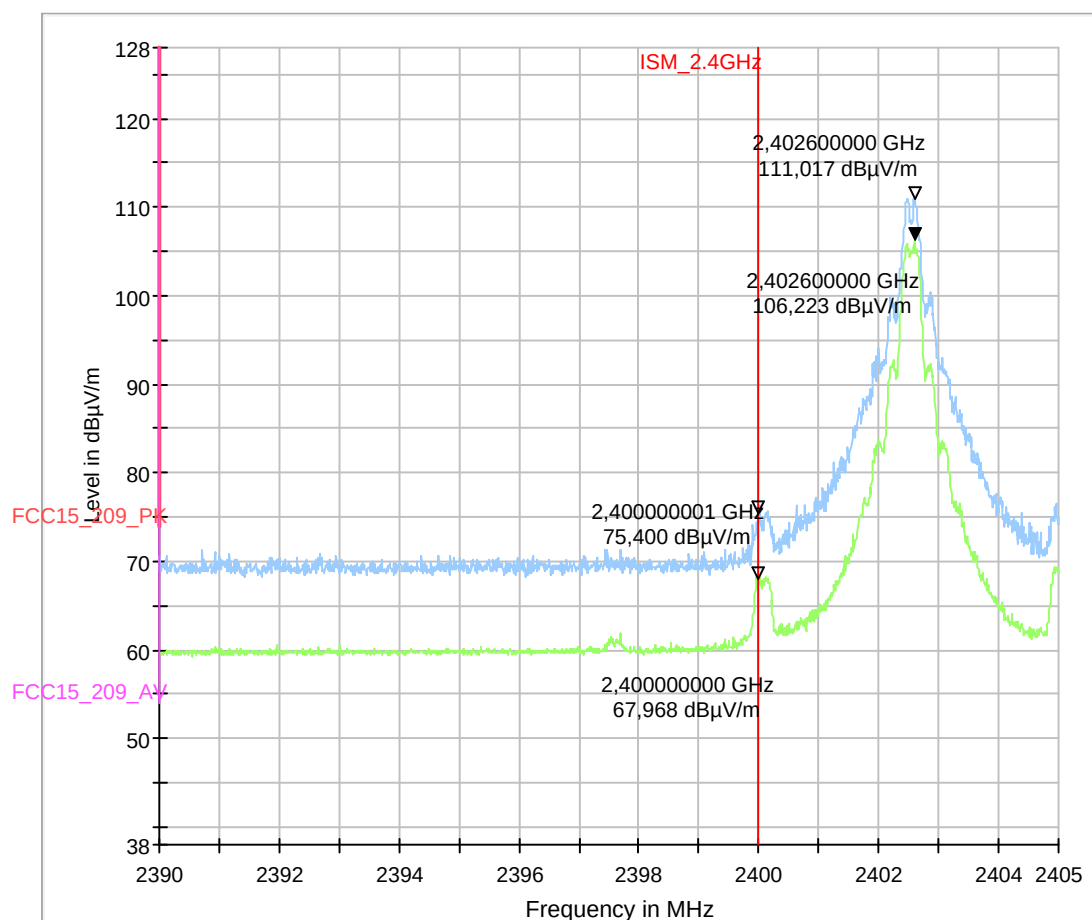
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port)
	MSK 250 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power 12 dBm
	TFR

Operator Name:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3]

4.23_RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch0- PWR +12 dBm]

9.27_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps-Ch0-PWR+12dBm

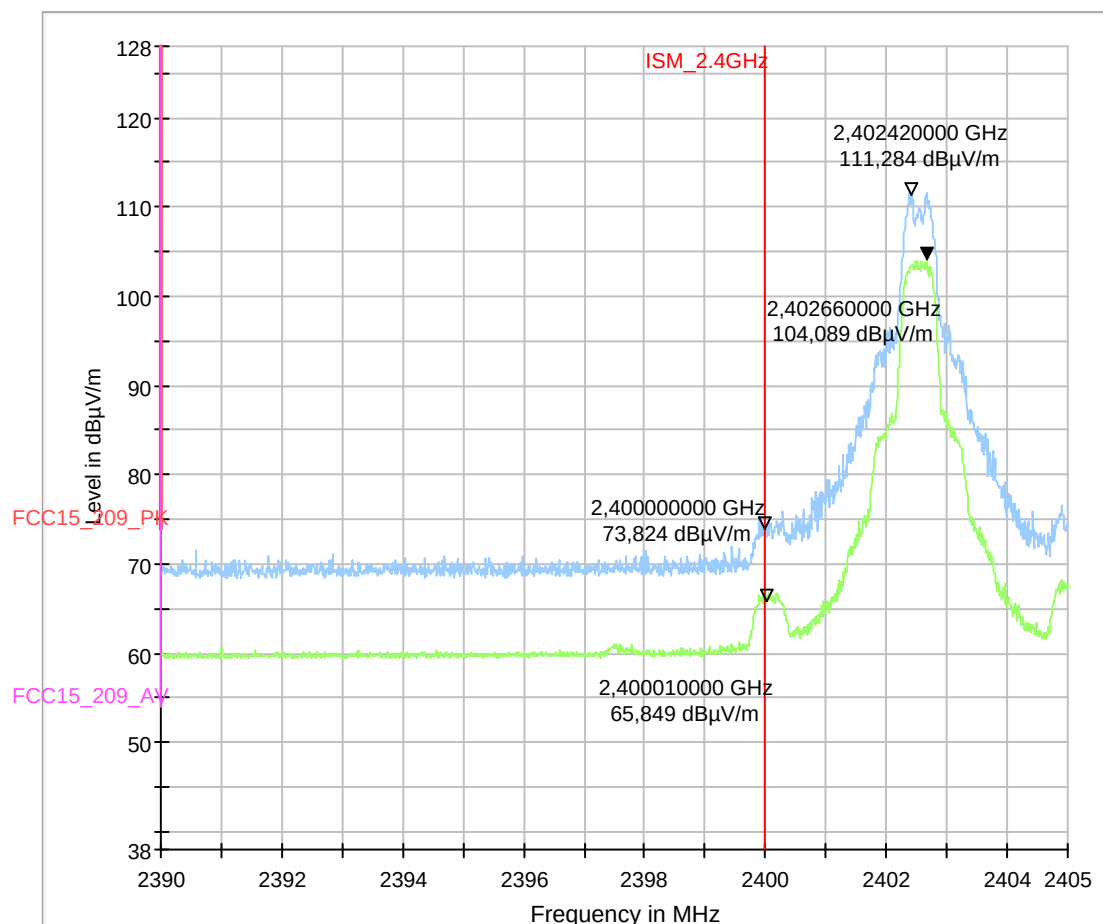
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK 500 Kbps 0 (2402.5 MHz) Fixed Channel (modulated) Power 12dBm TFR

Operator Name:

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3
4.24_RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch34- PWR +21dBm]

4.5.2. High Channel 2471.5 MHz (2.4 GHz ISM: right band edge)

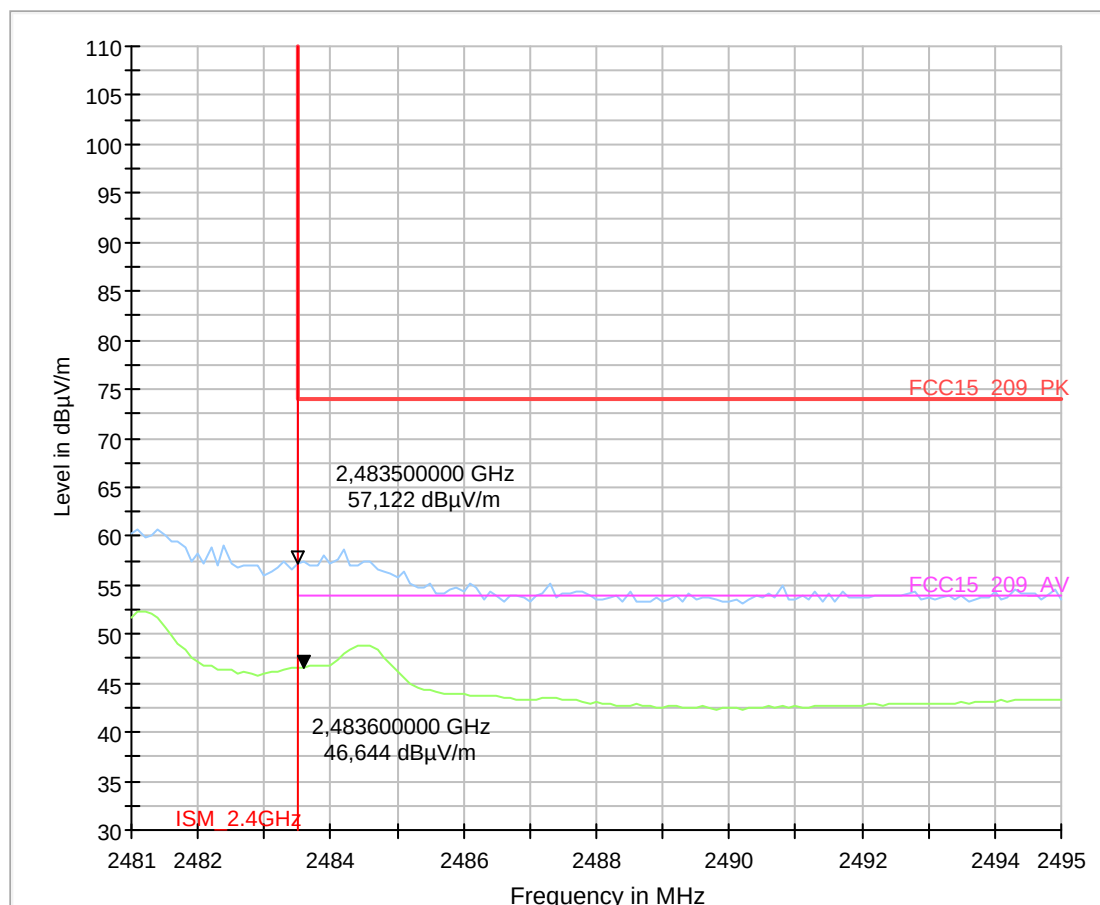
9.22_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-50Kbps- Ch69-PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port)
	MSK 50 Kbps 69 (2471.5 MHz) Fixed Channel (modulated)-Power+12dBm
Operator Name:	TFR
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



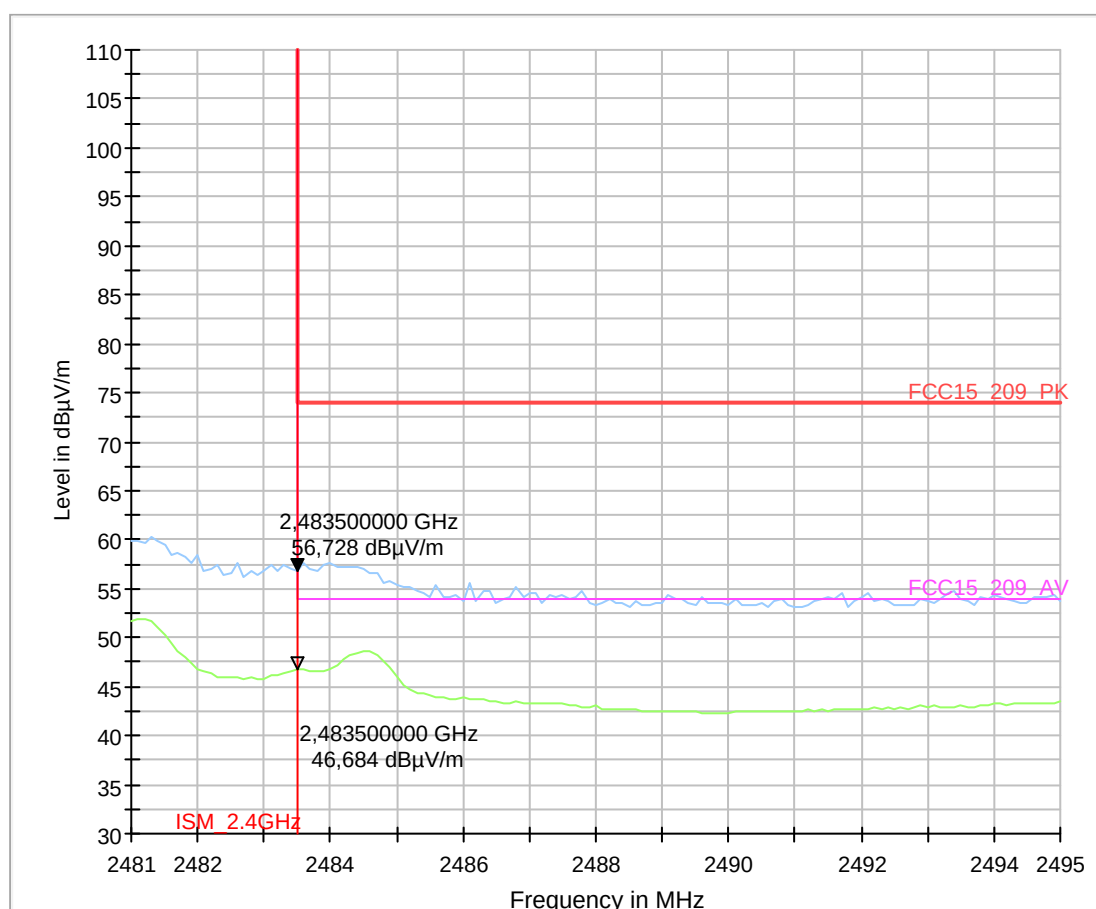
9.24_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-100Kbps- Ch69- PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK 100 Kbps 69 (2471.5 MHz) Fixed Channel (modulated)-Power+12dBm TFR
Operator Name:	With 2.4 GHz NOTCH FILTER
Measurements Performed:	

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



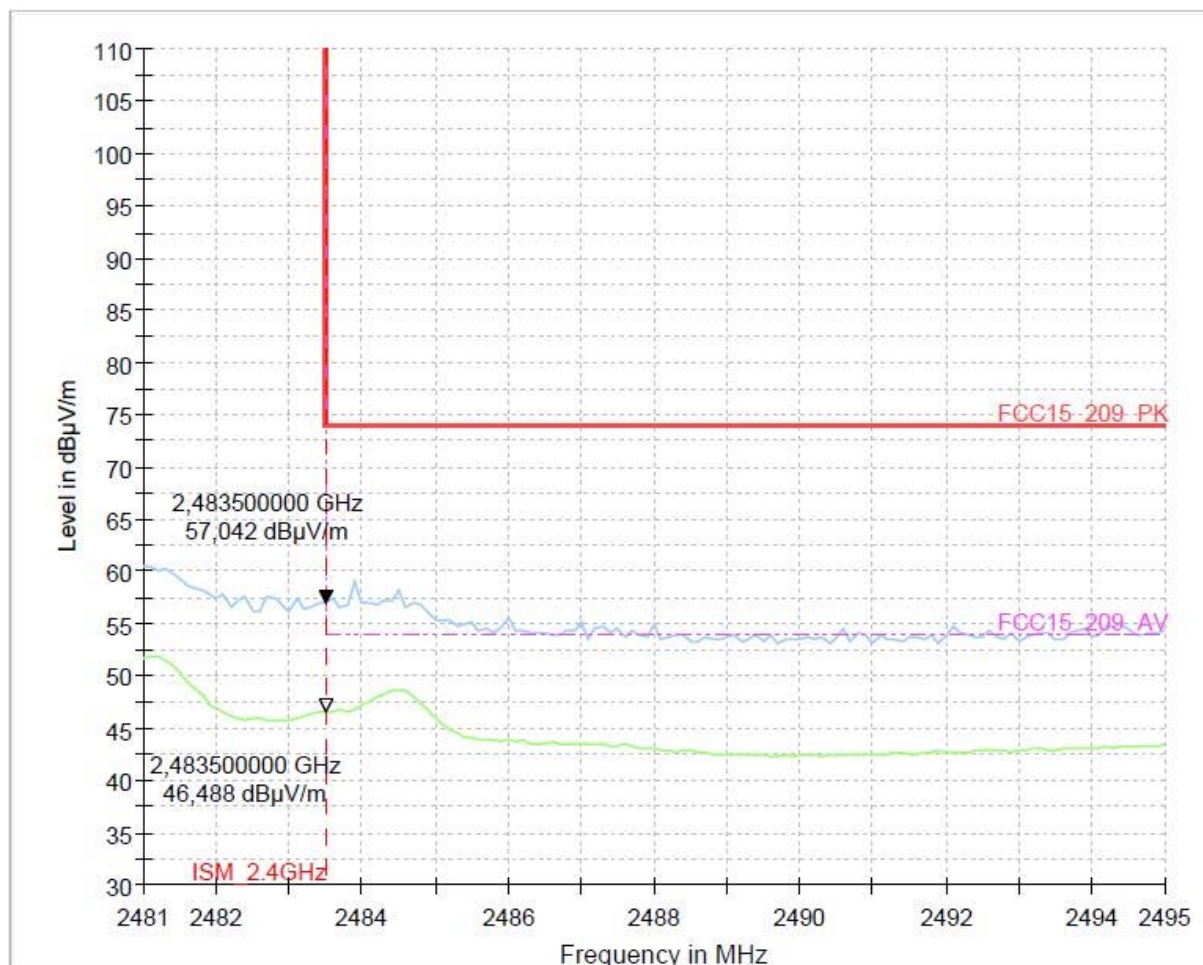
9.26_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps- Ch69- PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upperr2.4 GHz Port)
	MSK 250 Kbps 69 (2471.5 MHz) Fixed Chanel (modulated) Power +12dBm
Operator Name:	Tfr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



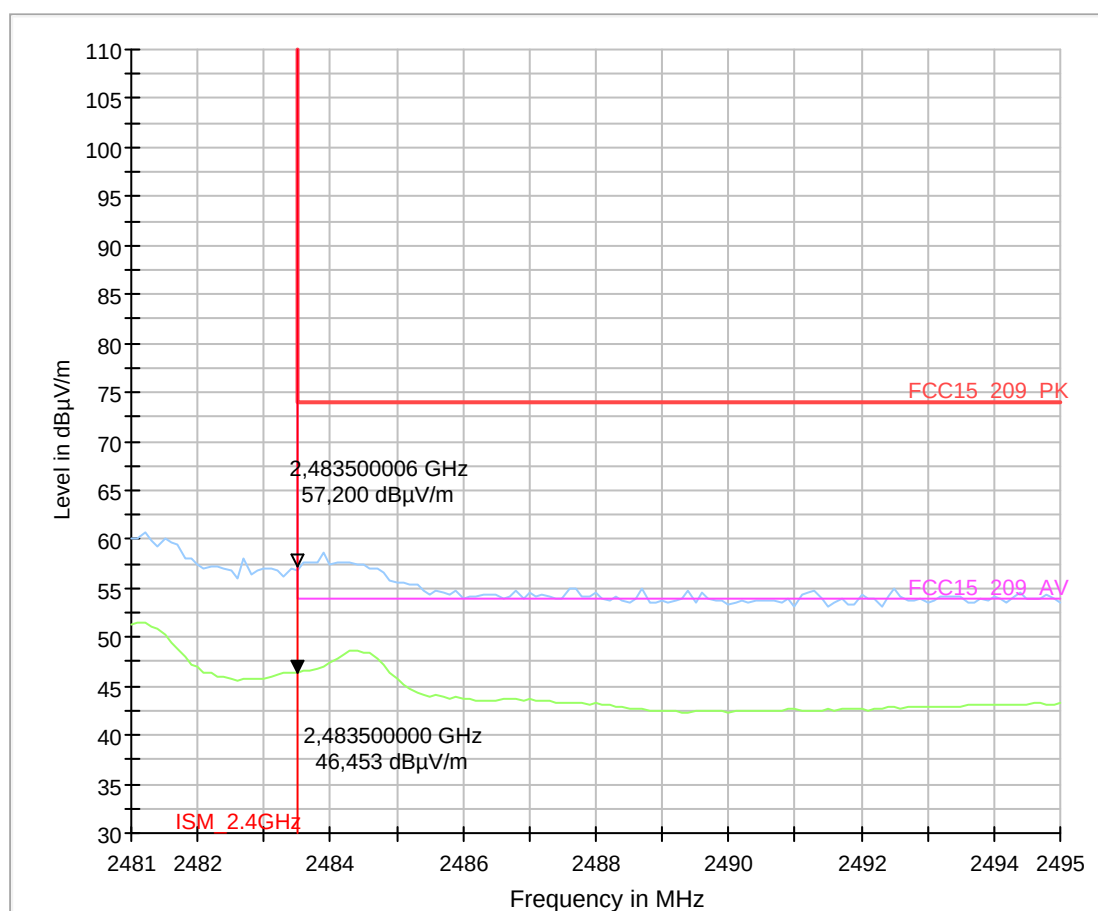
9.28_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps- Ch69- PWR+12dBm

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port)
	MSK 500 Kbps 69 (2471.5 MHz) Fixed Channel (modulated) Power 12dBm
Operator Name:	Tfr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



4.5.3. Low Channel Hopping Mode (2.4 GHz ISM: left band edge)

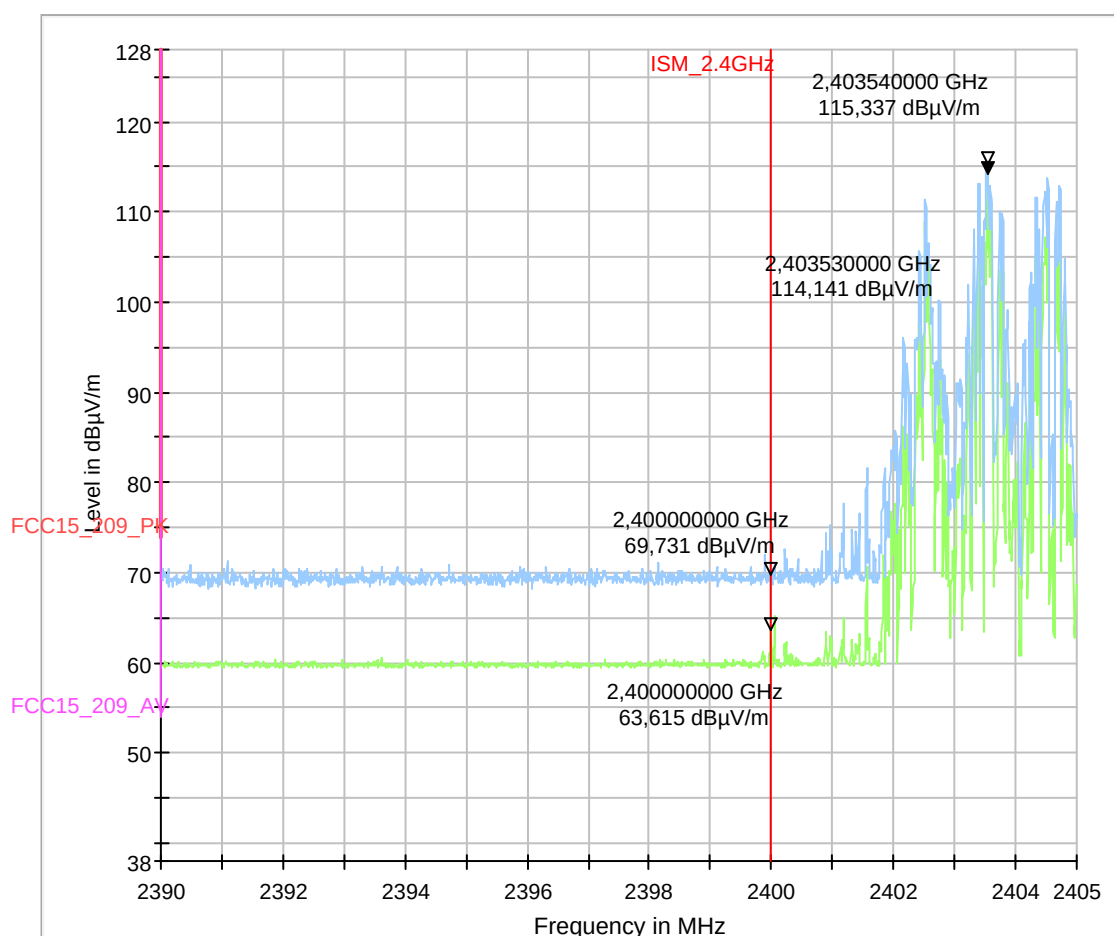
9.29a_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK 500 Kbps Hopping Mode (Master)
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3]

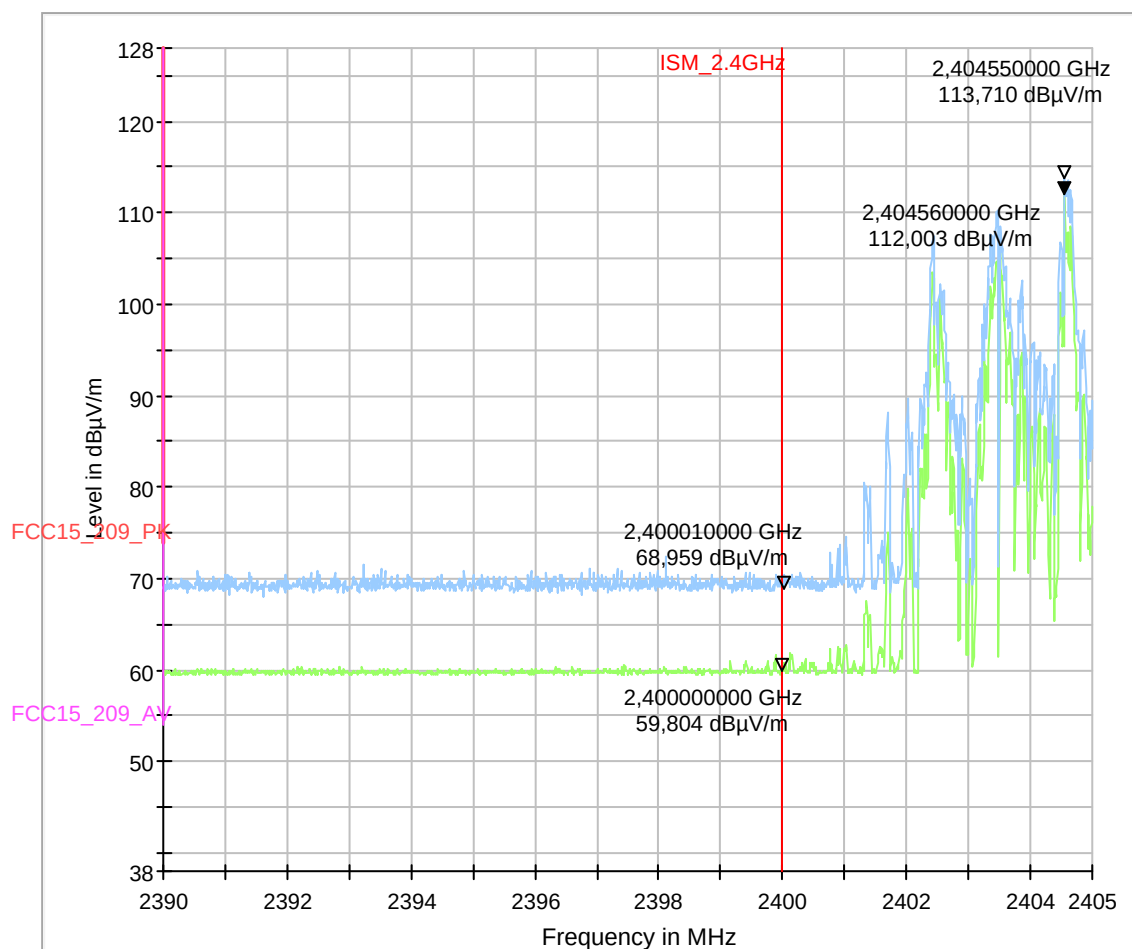
9.30a_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps-Low

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper2.4 GHz Port)
	MSK 250 Kbps Hopping Mode (Master)
Operator Name:	TFr

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



[For Restricted Band (2200-2300 MHz & 2310 – 2390 MHz)compliance refer Chapter 4.3]

4.5.4. High Channel Hopping Mode (2.4 GHz ISM: left band edge)

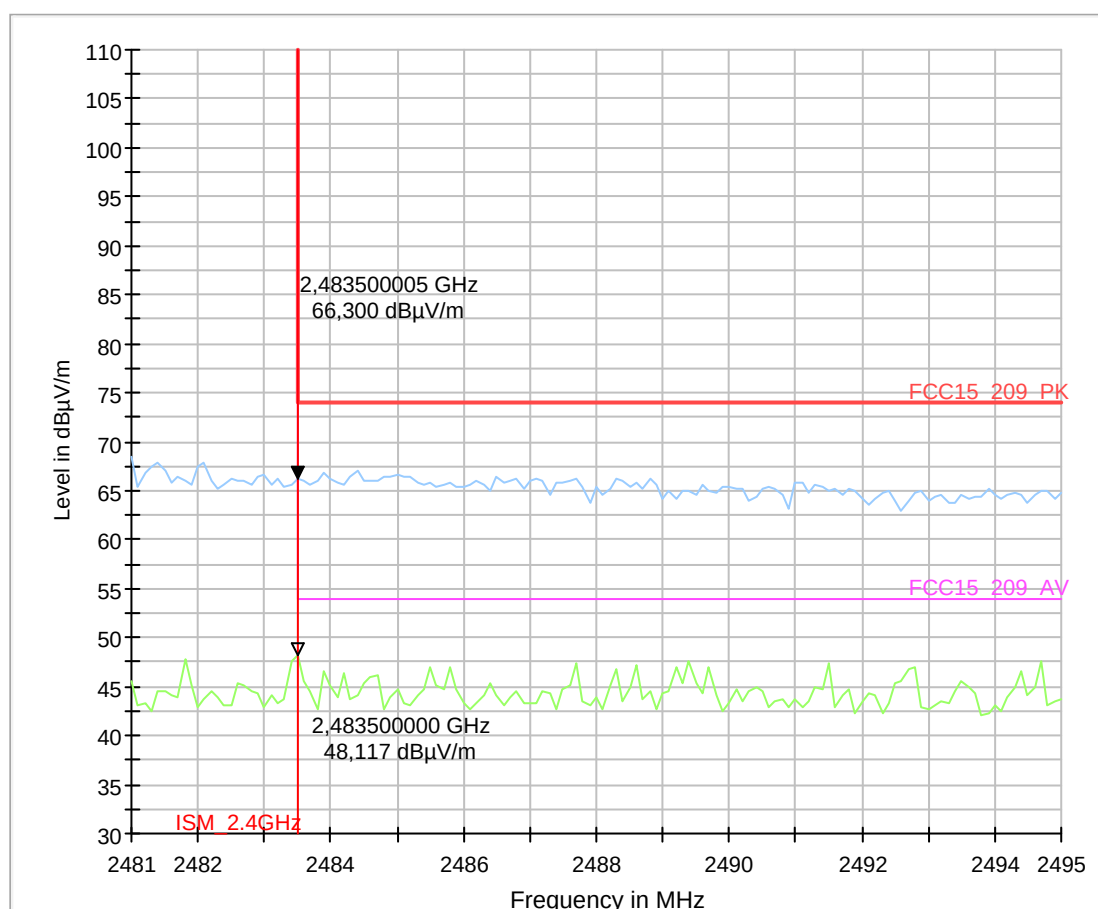
9.29b_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-500Kbps-High- FINAL

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK 500 Kbps Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω



9.30b_BE-RCM24G+INTEL FA5 Ant-Port5-MSK-250Kbps-High

Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS 247 Issue2 , RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous RCM24G + INTEL FA5 Antenna Port 5 (Upper 2.4 GHz Port) MSK 250 Kbps Hopping Mode (Master)
Operator Name:	AFr
Measurements Performed:	With 2.4 GHz NOTCH FILTER

EUT Information

Manufacturer:	Intel
Module Details:	RCM24G
Module Type:	Proprietary 2.4 GHz RF Transceiver
Module HW version:	D
Module SW version:	Bootloader Version3.6
Module Serial number:	PCB ID 3518
Antenna Details:	INTEL FA5 ANTENNA-PORT5
Antenna Type:	Monopole
Antenna HW version:	Antenna-002
Antenna Gain:	4.86 dBi
Antenna Serial number:	N/A
Test Configuration:	INTEL FA5 Antenna's Port 5(Upper 2.4 GHz Port) connected to RCM24G Module using micro-UFL connector cable 40 cm in length
Test Mode Settings:	Using RCM24G TestTool_V3_70Channels Software
Module Power Supply:	3.6 V DC (Direct to RCM24G) using Laboratory Supply
Comments:	Unused INTEL FA5 Antenna ports (Port: 1 2 3 4) are terminated with 50 Ω

