

Annex 1: Measurement diagrams to TEST REPORT No.: 16-1-0141801T06a-C1

According to:
FCC Regulations
Part 15.209
Part 15.247

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

for

Daimler Trucks North America

CTPMIDDTNA
ECU

FCC-ID: 2AKC8CTP054661
IC: 22221-CTP054661
PMN: CTPMIDDTNA
HVIN: CTPMIDDTNA
FVIN: 16.095.2

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 FEDERAL COMMUNICATIONS COMMISSION FC 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 AuthorizedTM 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			

Table of contents

1. RADIATED FIELD STRENGTH MEASUREMENTS ACCORD. §15.209&15.205.....	3
1.1. Magnetic field measurements $f < 30\text{MHz}$	3
1.2. Field strength measurements $30\text{MHz} < f < 1\text{GHz}$	6
1.3. Field strength measurements $f < 18\text{GHz}$	9
2. RADIATED BAND-EDGE MEASUREMENTS ACCORD. §15.209 & §15.205 (§15.247)	15
2.1. Channel 37 (left band edge).....	15
2.2. Channel 39 (right band edge).....	16
3. CONDUCTED RF-MEASUREMENTS ON ANTENNA PORT.....	17
3.1. Duty cycle.....	17
3.2. 6dB bandwidth.....	20
3.3. 99% occupied channel bandwidth	23
3.4. Transmitter peak output power	26
3.5. 20dBc Emissions	29
3.6. Power spectral density	41

1. Radiated field strength measurements accord. §15.209&15.205

1.1. Magnetic field measurements $f < 30\text{MHz}$

Diagram No. 2.14_BT_LE_Ch37

Test description:
Test site and distance:
Version of Testsoftware:
Distance correction:
Technical Data:
Rec. antenna (pre-scan):
Used filter:
Test specification:

Date: 12.12.2016 Page 1 of 5
Magnetic Field Strength Measurement related to 30/300 m distance
Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
EMC32 V9.25.0
used accord. table, pls. see test report
Please see page 2 for detailed data of measurement setup
height 1.00 m, parallel and 90° to EUT polarisation
bypass
FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:
Operating mode:
Operating conditions:
Power during tests:

Afr
BT LE Ch37
Humidity: 40%rH; Temperature: 20°C
12 V DC

EUT Information

Manufacturer:
EuT:

Bosch Car Multimedia Portugal, S.A.
ECU CTPMIDDTNA

HW Version:
SW Version:
Serial Number:
Connected Interfaces:
Power Supply:

6794G05
DAIMLER_CTP_16.095.2
2820003843
USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
12 V DC

Full Spectrum

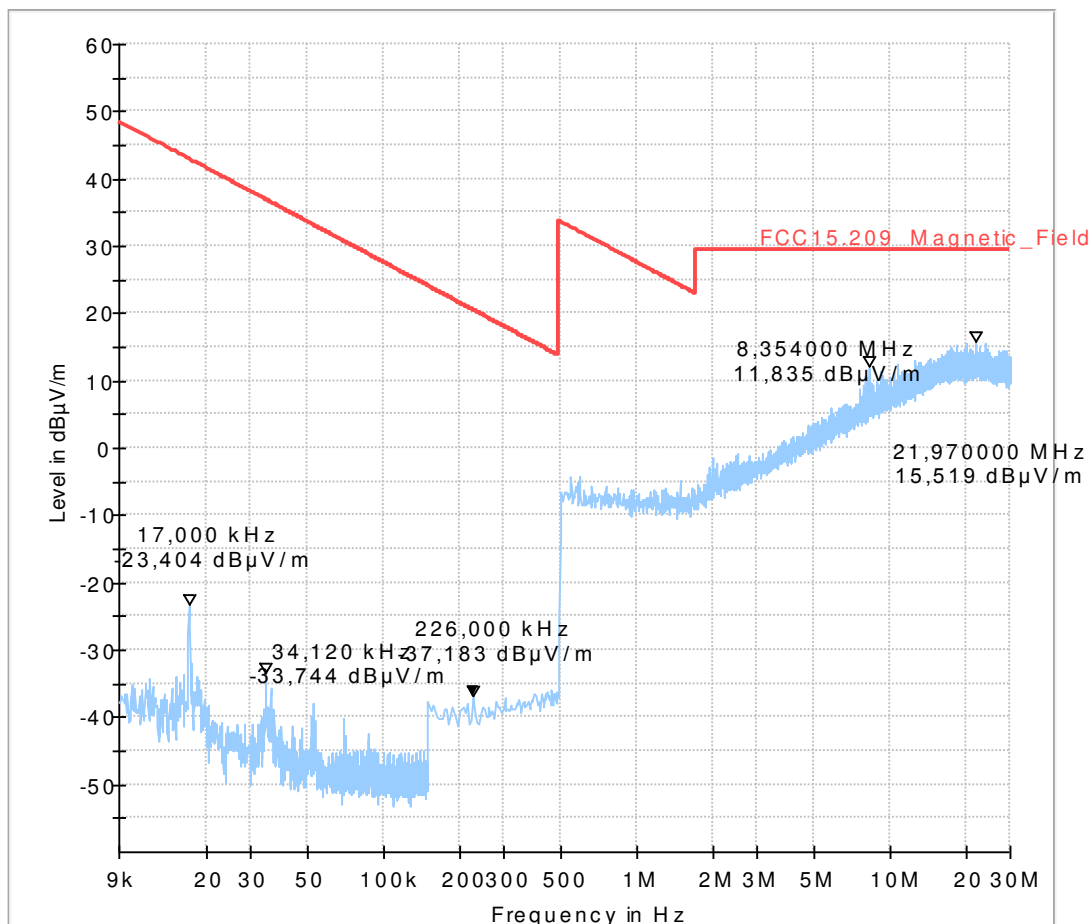


Diagram No. 2.15_BT_LE_Ch18

Date:	12.12.2016	Page 1 of 3
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:	BT LE Ch38	
Operating conditions:	Humidity: 40%rH; Temperature: 20°C	
Power during tests:	12 V DC	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum

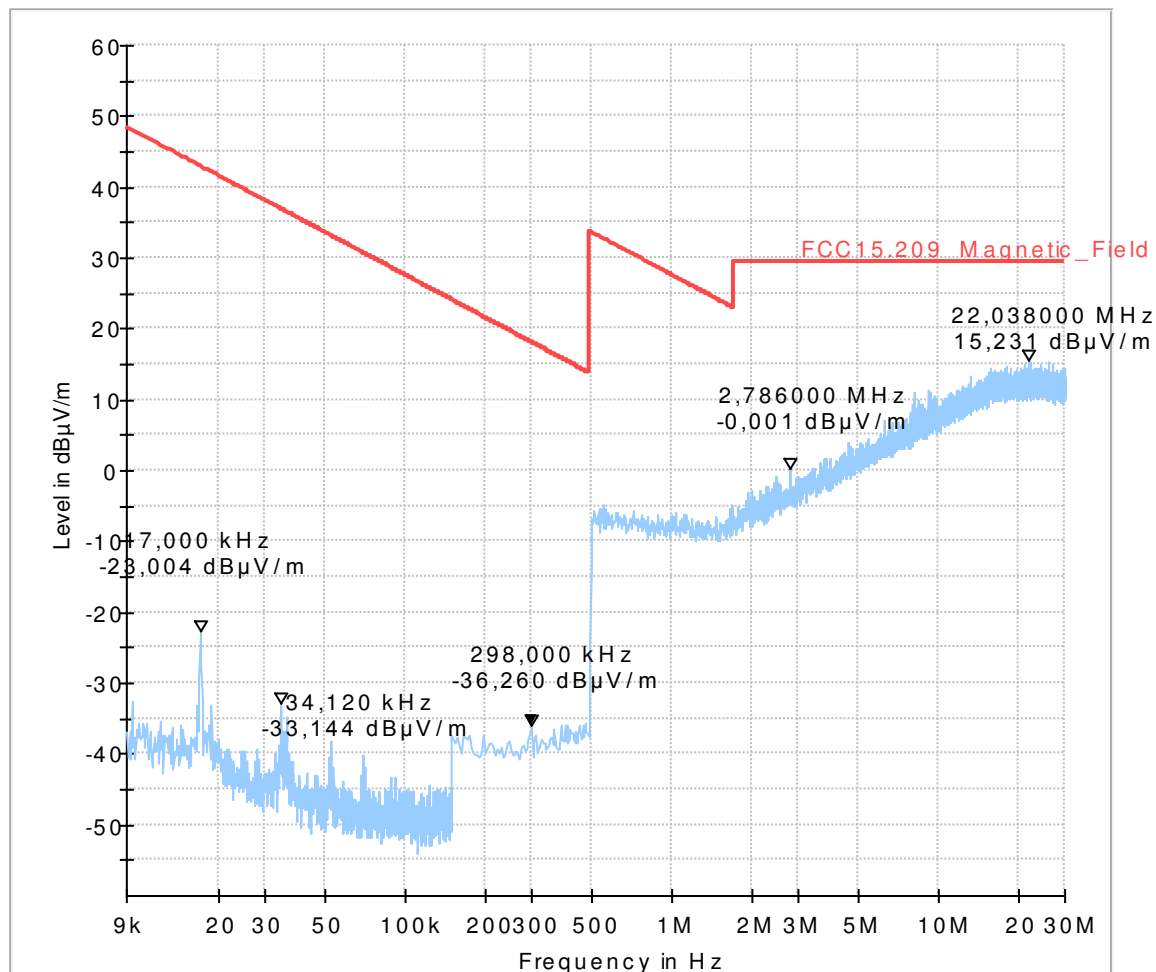


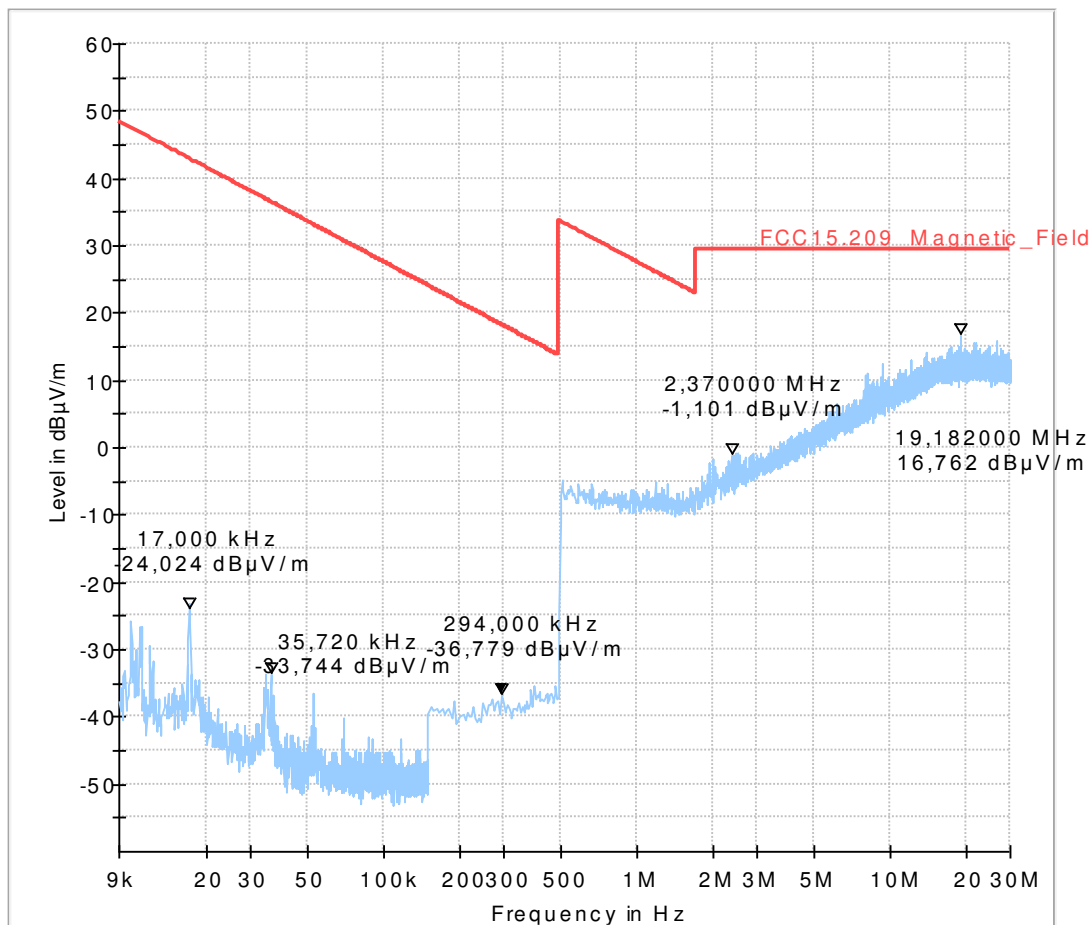
Diagram No. 2.16_BT_LE_Ch39

Date:	12.12.2016	Page 1 of 3
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:	BT LE Ch39	
Operating conditions:	Humidity: 40%rH; Temperature: 20°C	
Power during tests:	12 V DC	

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



1.2. Field strength measurements 30MHz <f <1GHz

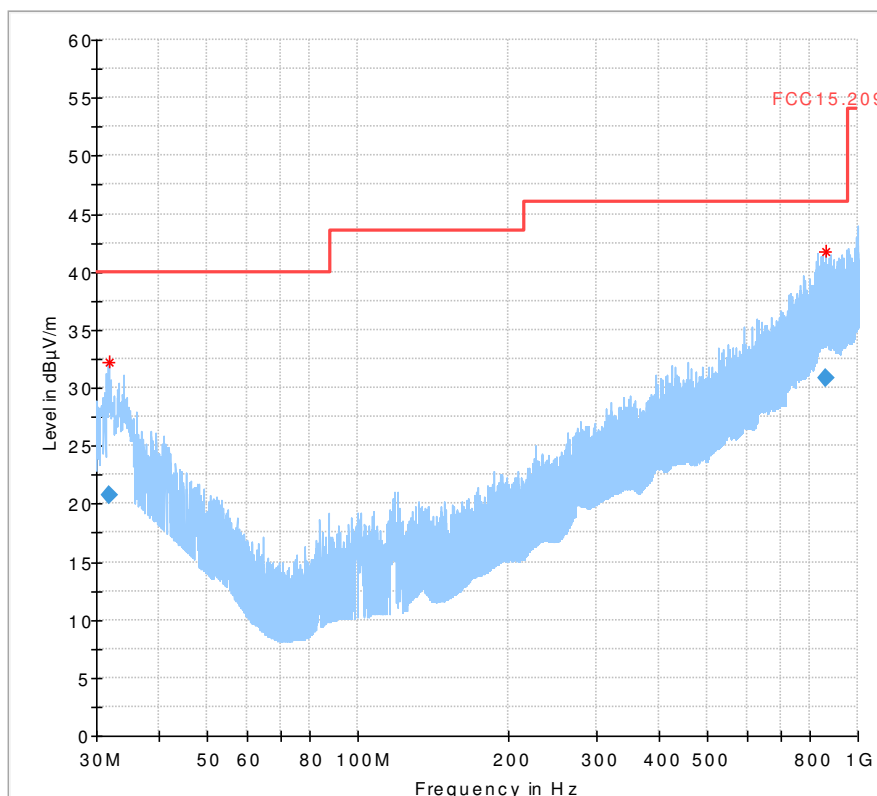
Diagram No. 3.14_BT_LE_GFSK_1Mbps_Ch37

Test description:	12.12.2016 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V9.25.0
Used filter:	not used
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.209; RSS-Gen: Issue 3
Operator:	AFr
Operating mode:	BT LE GFSK 1Mbps Ch37
Operating conditions:	Humidity: 40%rH; Temperature: 20°C
Power during tests:	12 V DC

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.748000	20.77	40.00	19.23	1000.0	120.000	184.0	H	284.0	20.8
863.332000	30.81	46.00	15.19	1000.0	120.000	224.0	V	53.0	25.9

Diagram No. 3.15_BT_LE_GFSK_1Mbps_Ch18

12.12.2016 Page 1 of 2

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 15.209; RSS-Gen: Issue 3

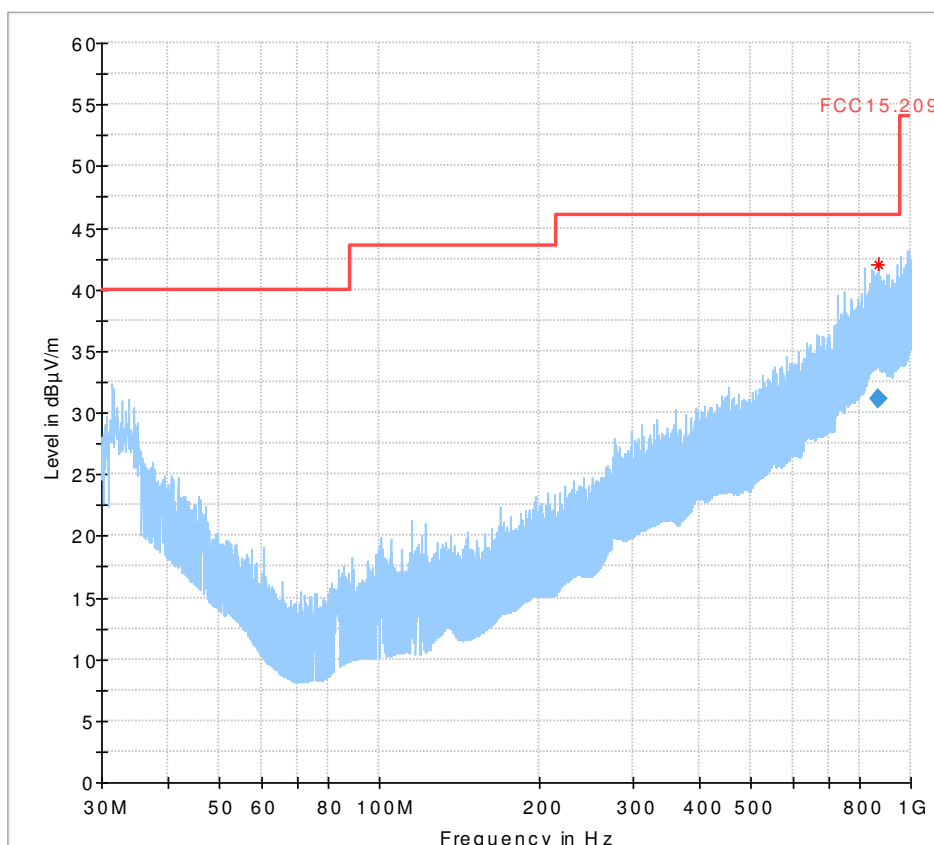
Operator: AFR
 Operating mode: BT LE GFSK 1Mbps Ch38
 Operating conditions: Humidity: 40%rH; Temperature: 20°C
 Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.
 EuT: ECU CTPMIDDTNA

HW Version: 6794G05
 SW Version: DAIMLER_CTP_16.095.2
 Serial Number: 2820003843
 Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
 Power Supply: 12 V DC

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Correction (dB)
868.100000	31.08	46.00	14.92	1000.0	120.000	265.0	V	111.0	26.1

Diagram No. 3.16_BT_LE_GFSK_1Mbps_Ch39

Common Information

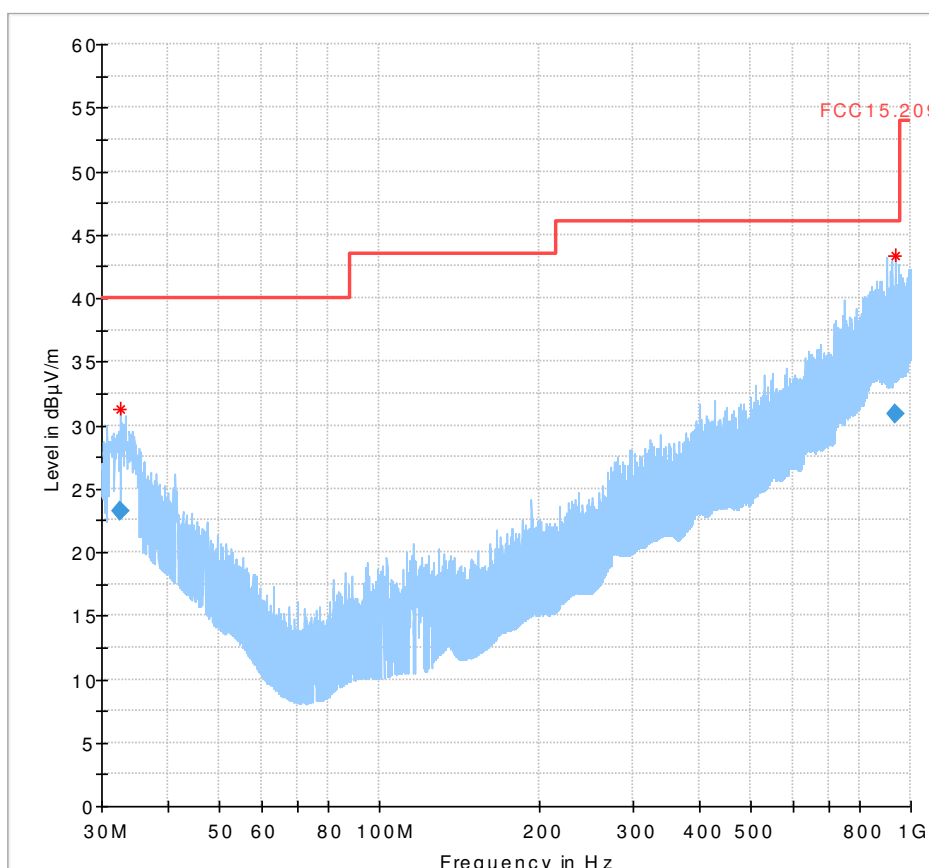
Test description: Electric Field Strength Measurement
 Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
 Version of Testsoftware: EMC32 V9.25.0
 Distance correction: not used
 Used filter: not used
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: AFr
 Operating mode: BT LE GFSK 1Mbps Ch39
 Operating conditions: Humidity: 40%rH; Temperature: 20°C
 Power during tests: 12 V DC

EUT Information

Manufacturer: Bosch Car Multimedia Portugal, S.A.
 EuT: ECU CTPMIDDTNA
 HW Version: 6794G05
 SW Version: DAIMLER_CTP_16.095.2
 Serial Number: 2820003843
 Connected Interfaces: USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
 Power Supply: 12 V DC

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.488000	23.22	40.00	16.78	1000.0	120.000	109.0	V	184.0	20.4
938.812000	30.86	46.00	15.14	1000.0	120.000	198.0	H	112.0	27.1

1.3. Field strength measurements f < 18GHz

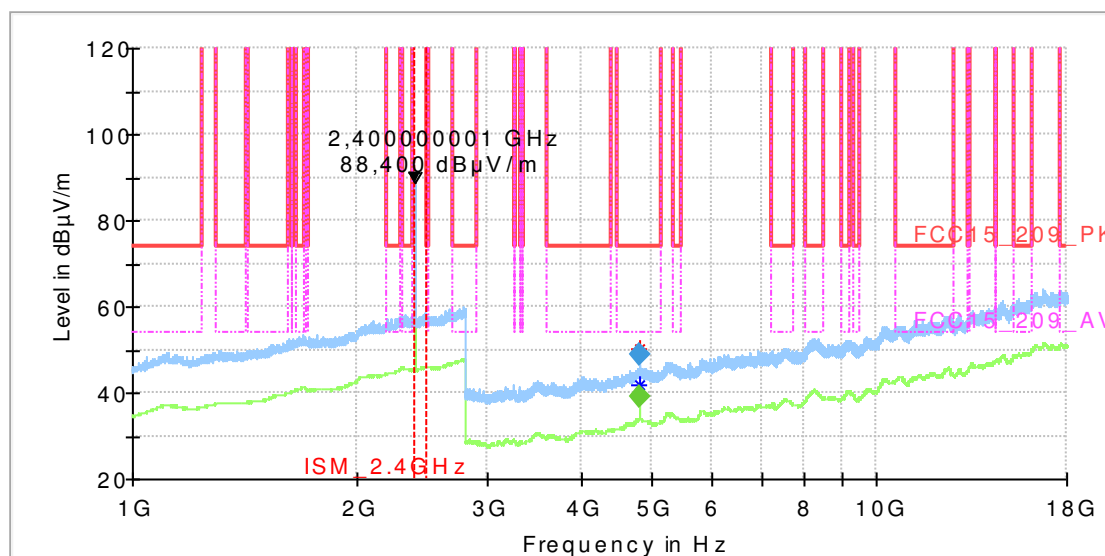
Diagram No.: 4.14_BT_LE_CH37_1MBPS

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	RIs
Comment:	Channel no. low/middle/high
Comment2:	Modulation Type: xxx Data Rate: yyy

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
4803.600000	48.64	---	74.00	25.36	100.0	1000.000	155.0	V	-7.0	90.0
4803.600000	---	38.96	54.00	15.04	100.0	1000.000	155.0	V	6.0	90.0

Diagram No.: 4.14a_BT_LE_GFSK(1MBit)_CH37_2402MHz

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	YSa
Comment:	Channel 37

FCC_Sweep_15.247_18_25GHz_Pre

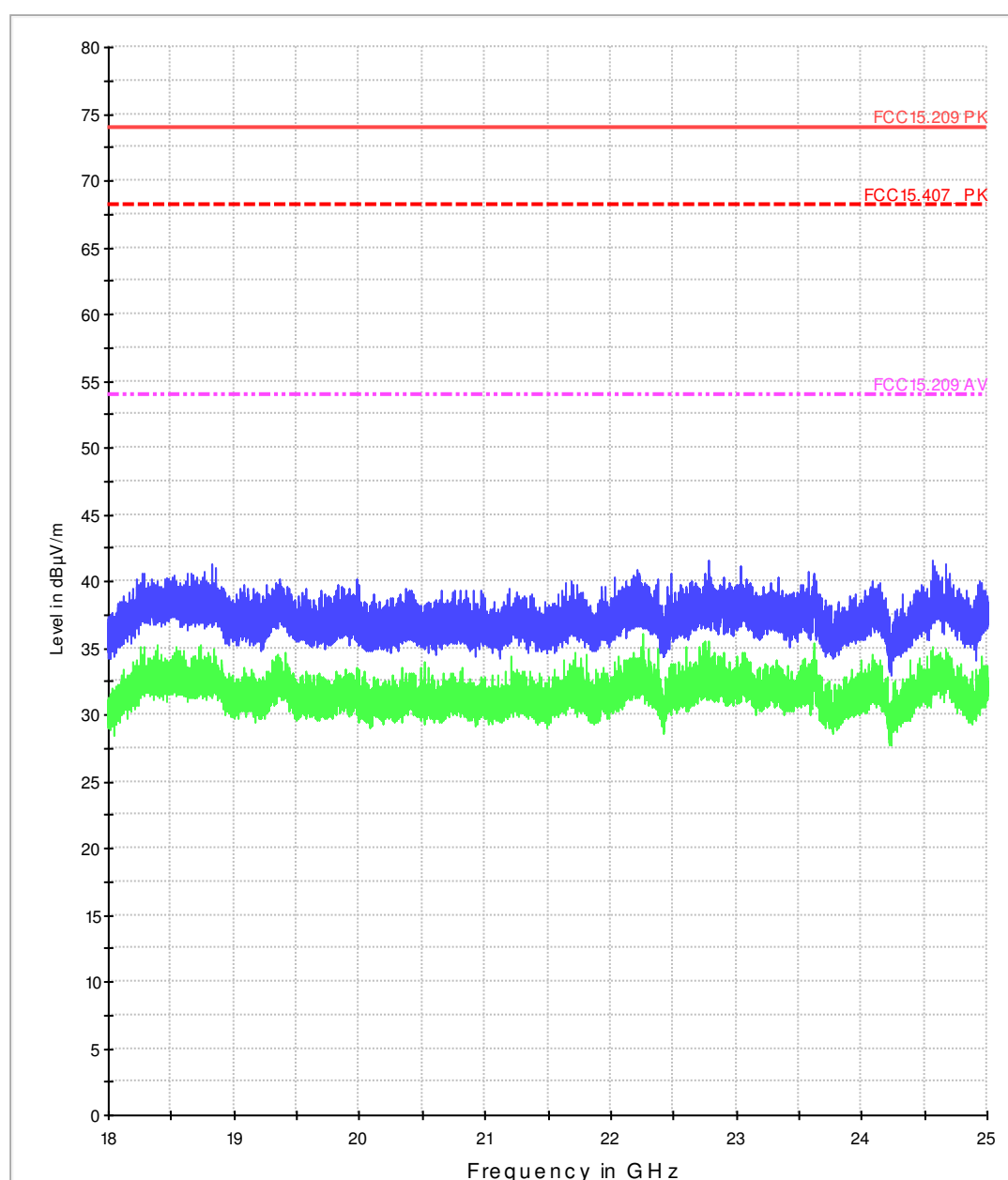


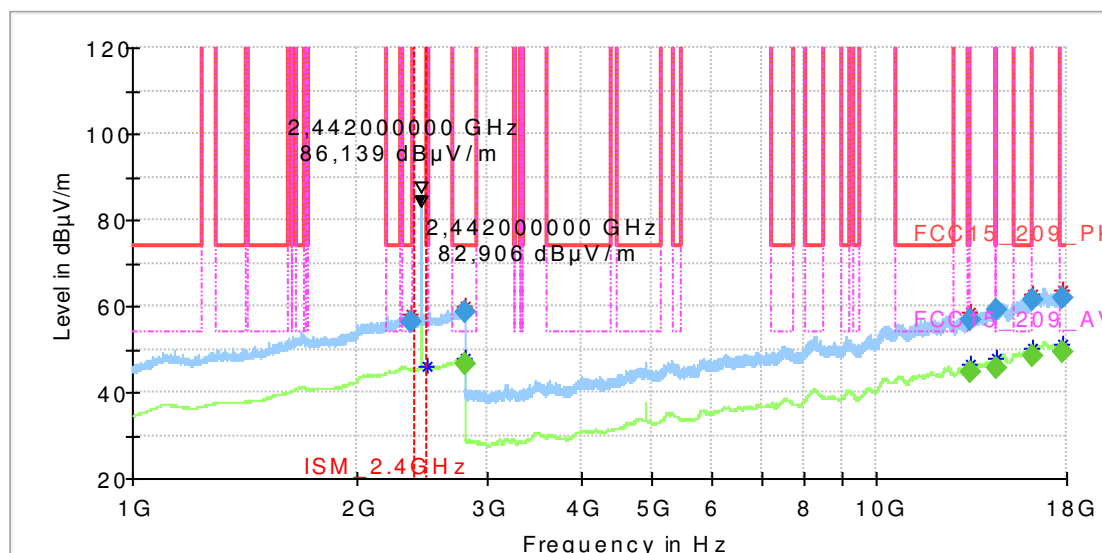
Diagram No.: 4.15_BT_LE_CH18_1MBPS

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Klv
Comment:	Channel 38 (middle)
Comment2:	Bluetooth Low Energy Modulation Type: GFSK Data Rate: 1Mbps

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003843
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
2367.600000	56.32	---	74.00	17.68	100.0	1000.000	155.0	H	114.0
2793.600000	---	46.37	54.00	7.63	100.0	1000.000	155.0	V	6.0
2794.800000	58.52	---	74.00	15.48	100.0	1000.000	155.0	V	128.0
13348.400000	---	44.54	54.00	9.46	100.0	1000.000	155.0	V	30.0
13397.600000	56.61	---	74.00	17.39	100.0	1000.000	155.0	H	167.0
14470.000000	---	45.68	150.00	104.32	100.0	1000.000	155.0	V	72.0
14486.000000	58.85	---	74.00	15.15	100.0	1000.000	155.0	H	307.0
16187.600000	61.23	---	74.00	12.77	100.0	1000.000	155.0	V	248.0
16199.600000	---	48.30	54.00	5.70	100.0	1000.000	155.0	V	-18.0
17768.400000	---	49.35	54.00	4.65	100.0	1000.000	155.0	V	290.0
17822.800000	61.78	---	74.00	12.22	100.0	1000.000	155.0	V	69.0

Diagram No.: 4.15a_BT_LE_CH18_1MBPS

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	YSa
Comment:	Channel 38

FCC_Sweep_15.247_18_25GHz_Pre

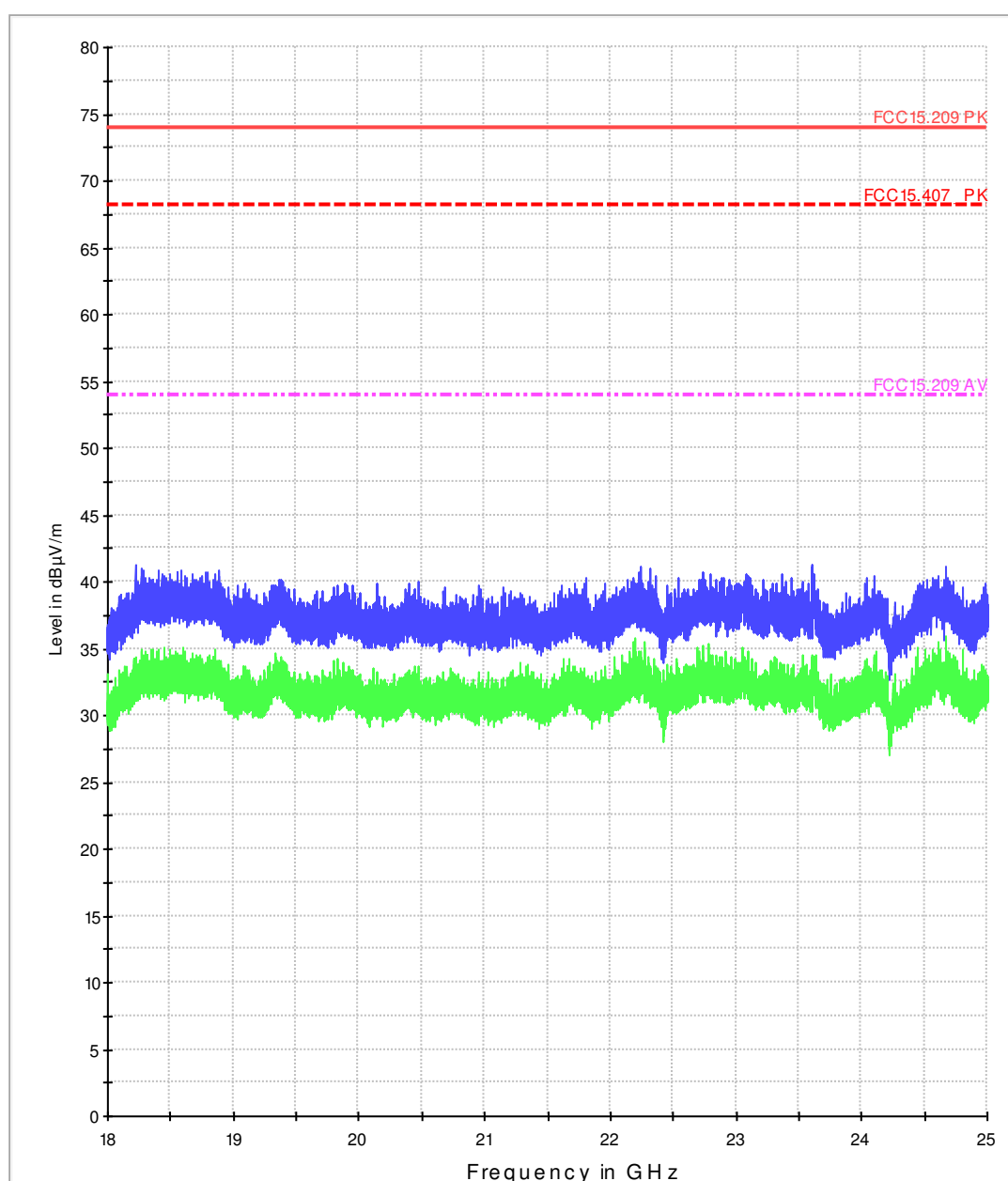


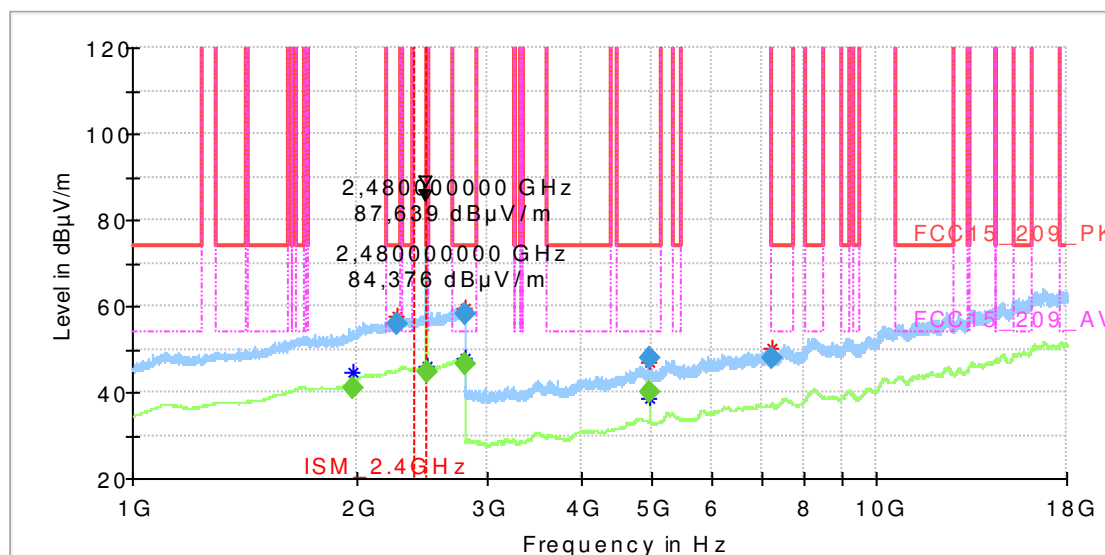
Diagram No.: 4.16_BT_LE_CH39_1MBPS

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Klv
Comment:	Channel 39 (high)
Comment2:	Bluetooth Low Energy Modulation Type: GFSK Data Rate: 1Mbps

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC



Final Result

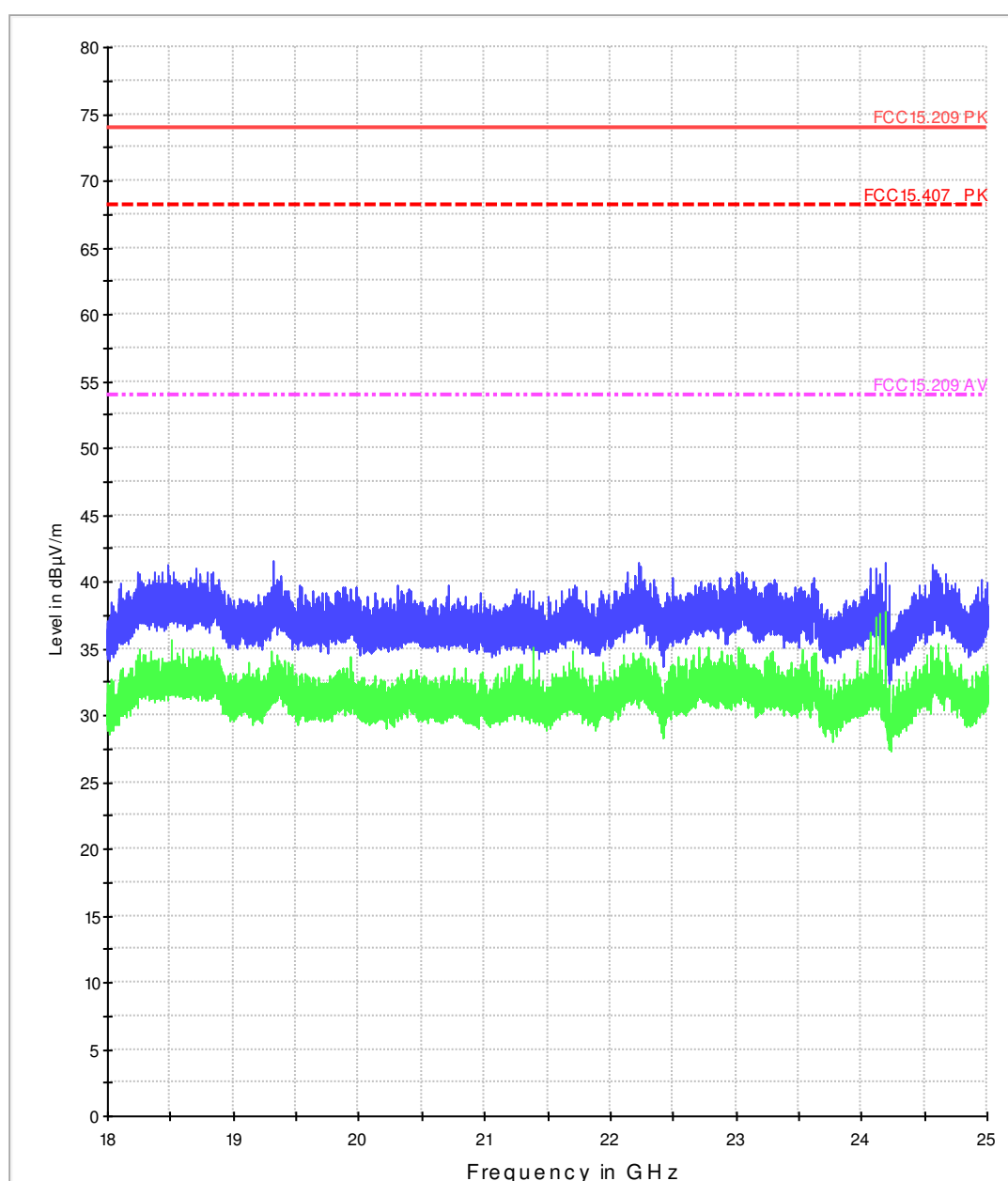
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1980.000000	---	40.89	150.00	109.11	100.0	1000.000	155.0	V	-9.0	0.0
2274.000000	56.00	---	74.00	18.00	100.0	1000.000	155.0	V	348.0	0.0
2493.200000	---	44.52	54.00	9.48	100.0	1000.000	155.0	V	201.0	0.0
2793.600000	58.32	---	74.00	15.68	100.0	1000.000	155.0	V	281.0	0.0
2799.600000	---	46.42	54.00	7.58	100.0	1000.000	155.0	V	32.0	0.0
4959.600000	47.94	---	74.00	26.06	100.0	1000.000	155.0	H	314.0	90.0
4960.000000	---	39.94	54.00	14.06	100.0	1000.000	155.0	H	305.0	90.0
7239.200000	48.06	---	150.00	101.94	100.0	1000.000	155.0	V	297.0	0.0

Diagram No.: 4.16a_BT_LE_CH39_1MBPS

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	YSa
Comment:	Channel 39

FCC_Sweep_15.247_18_25GHz_Pre



2. Radiated band-edge measurements accord. §15.209 & §15.205 (§15.247)

2.1. Channel 37 (left band edge)

Diagram No.: 9.07_BE_BT-LE-CH37

Common Information

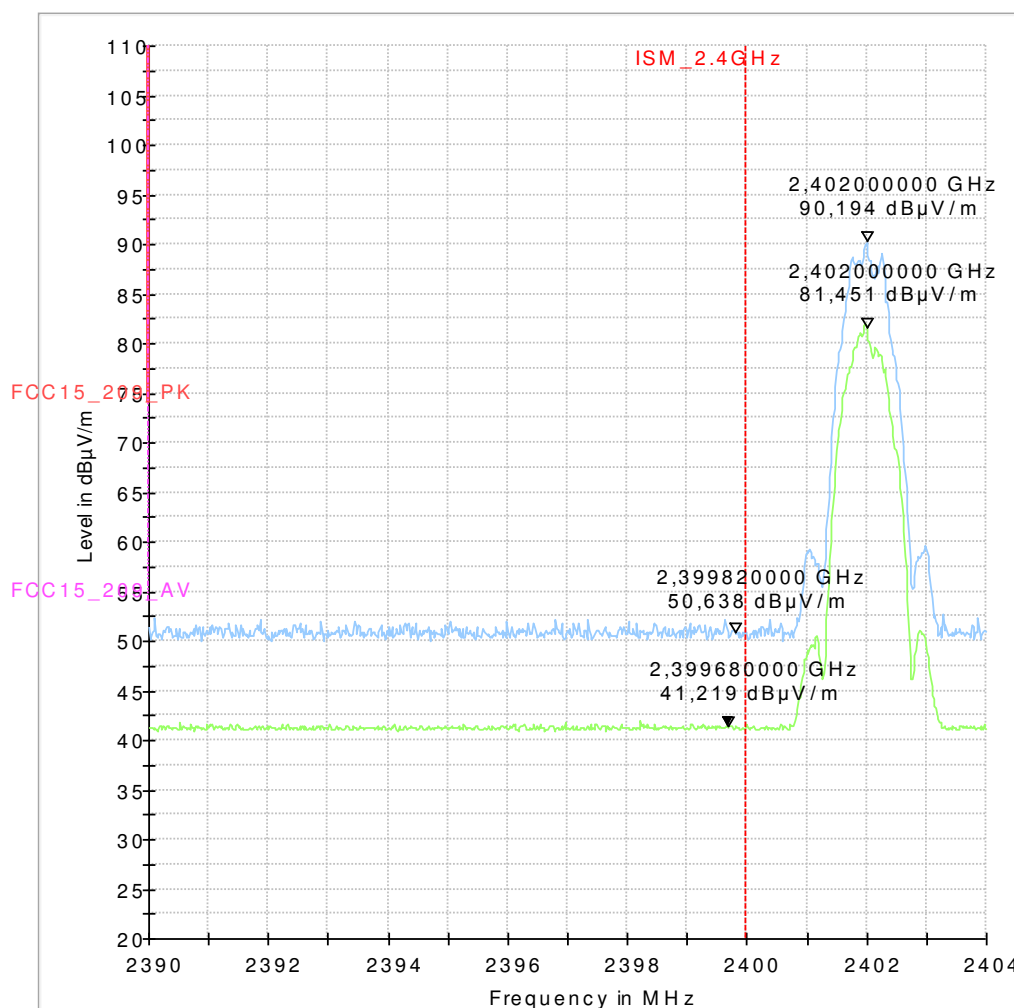
Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical

Operation mode:	TX, continuous
Operator Name:	Klv
Comment:	Channel 37 (low)
Comment2:	Bluetooth Low Energy Modulation Type: GFSK Data Rate: 1Mbps

EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDDTNA

HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC



2.2. Channel 39 (right band edge)

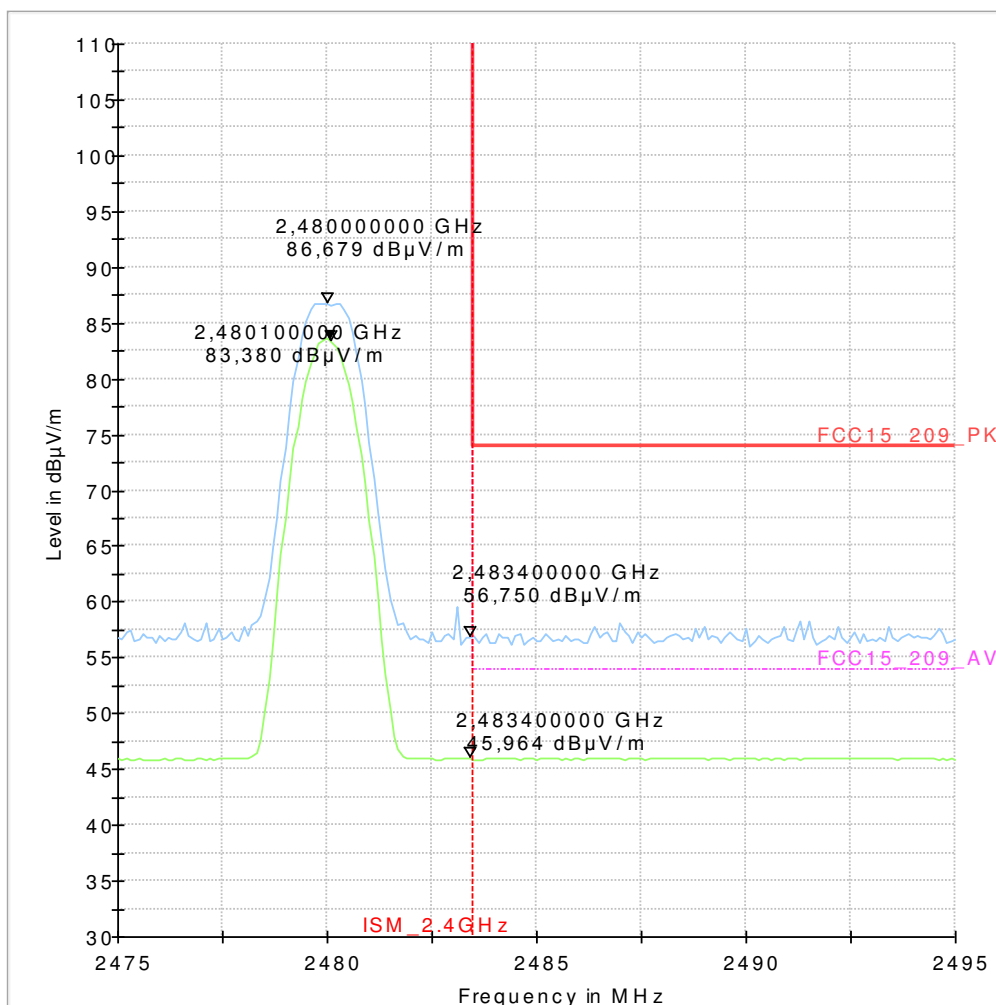
Diagram No.: 9.08_BE_BT-LE-CH39

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-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Klv
Comment:	Channel 39 (high)
Comment2:	Bluetooth Low Energy Modulation Type: GFSK Data Rate: 1Mbps

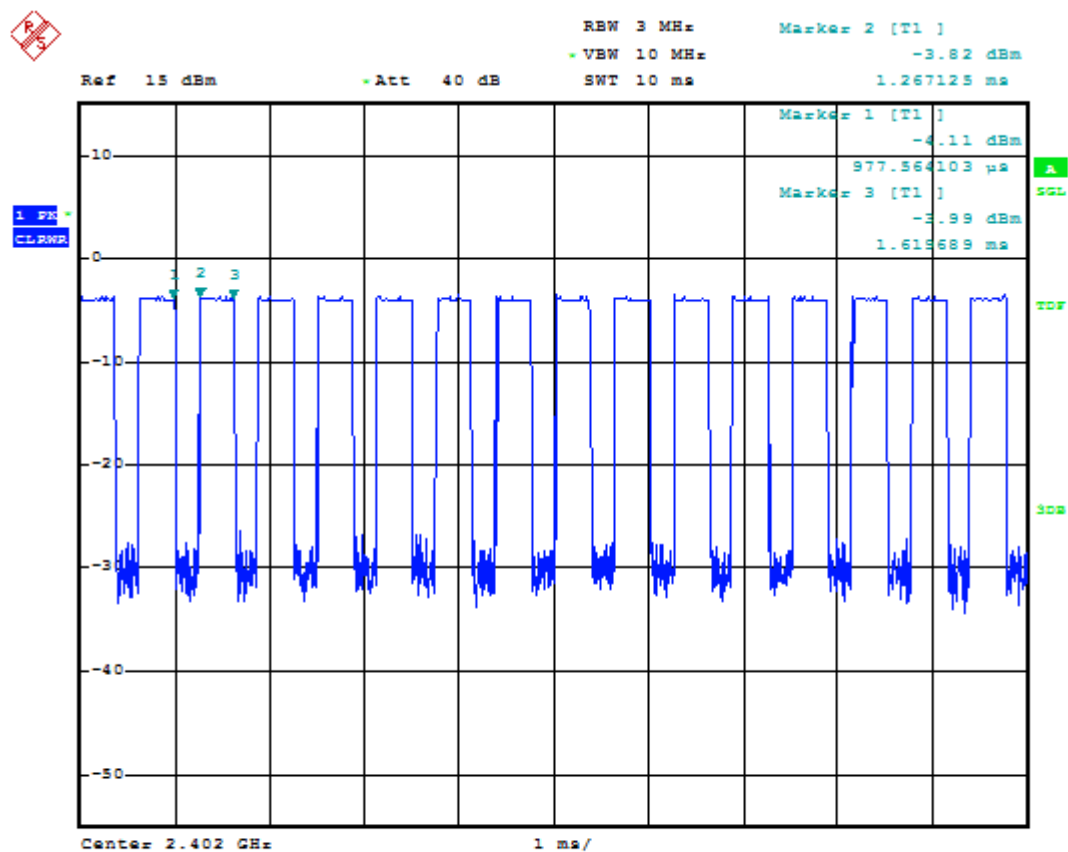
EUT Information

Manufacturer:	Bosch Car Multimedia Portugal, S.A.
EuT:	ECU CTPMIDTNA
HW Version:	6794G05
SW Version:	DAIMLER_CTP_16.095.2
Serial Number:	2820003846
Connected Interfaces:	USB-cable + main wiring + GSM/GNSS antenna + WLAN antenna
Power Supply:	12 V DC



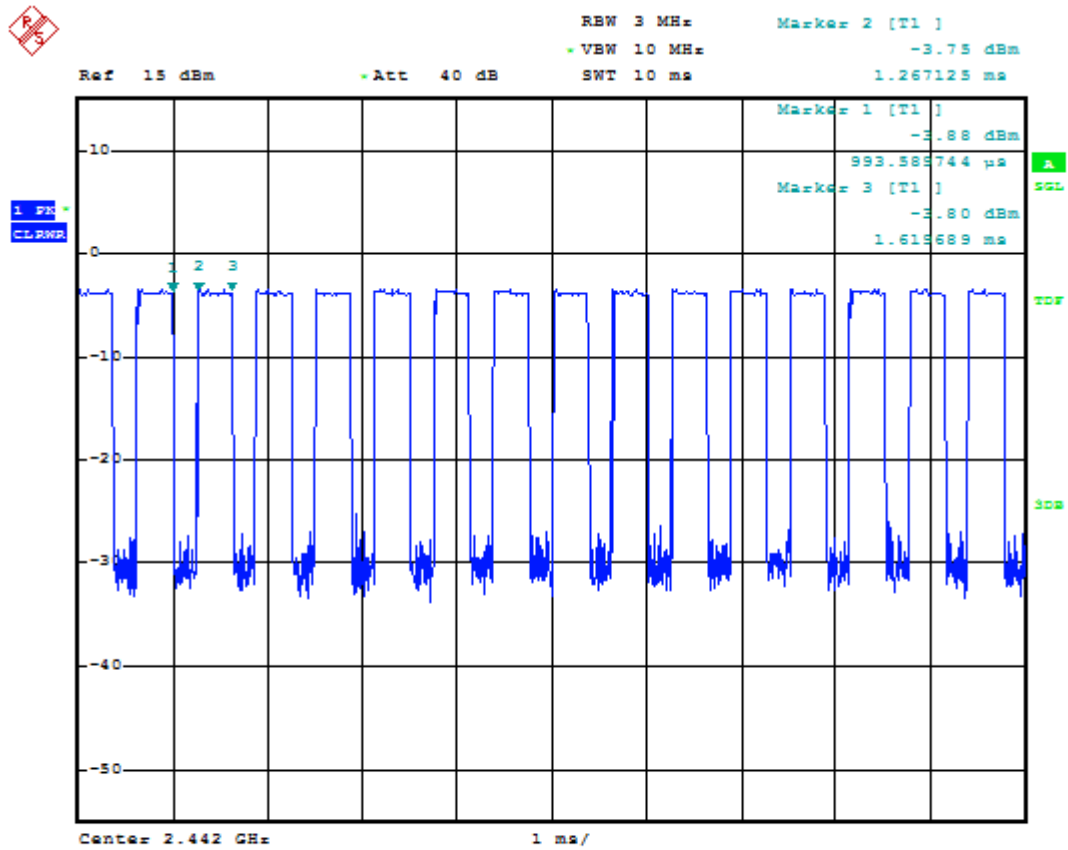
3. Conducted RF-measurements on antenna port

3.1. Duty cycle



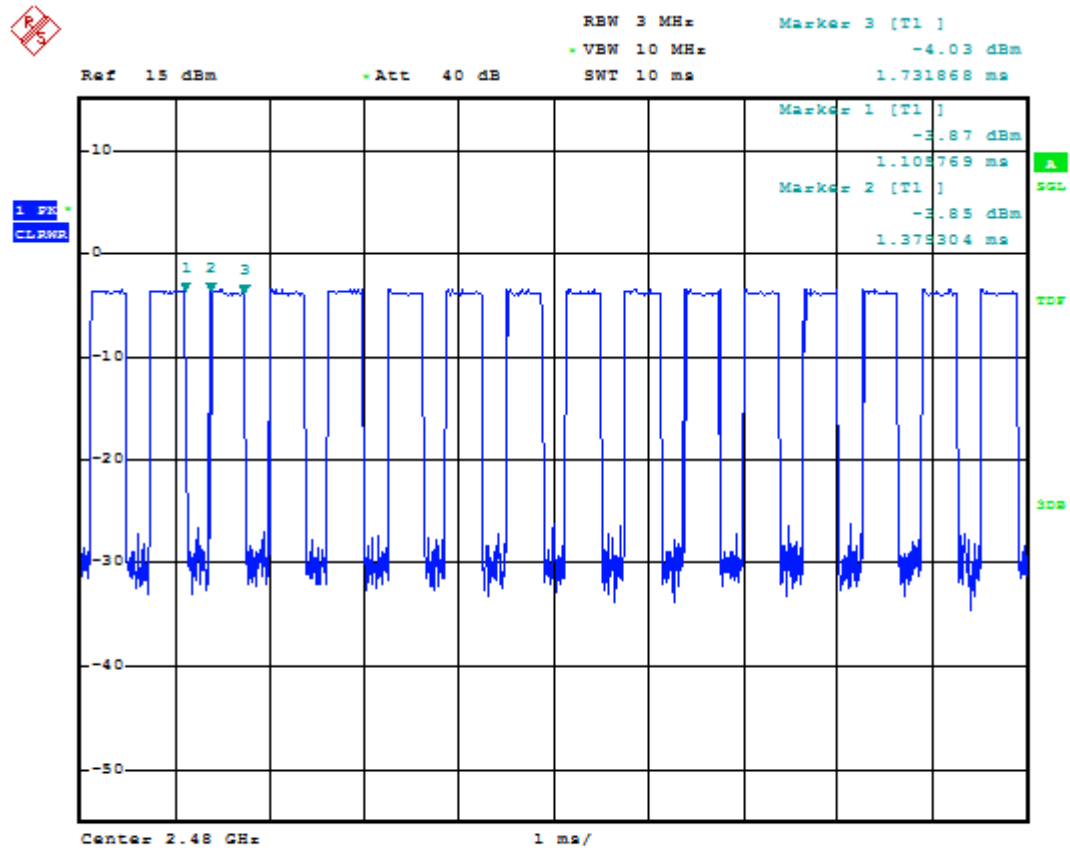
Date: 15.DEC.2016 16:04:27

DC-Ch37-2402MHz



Date: 15.DEC.2016 15:59:40

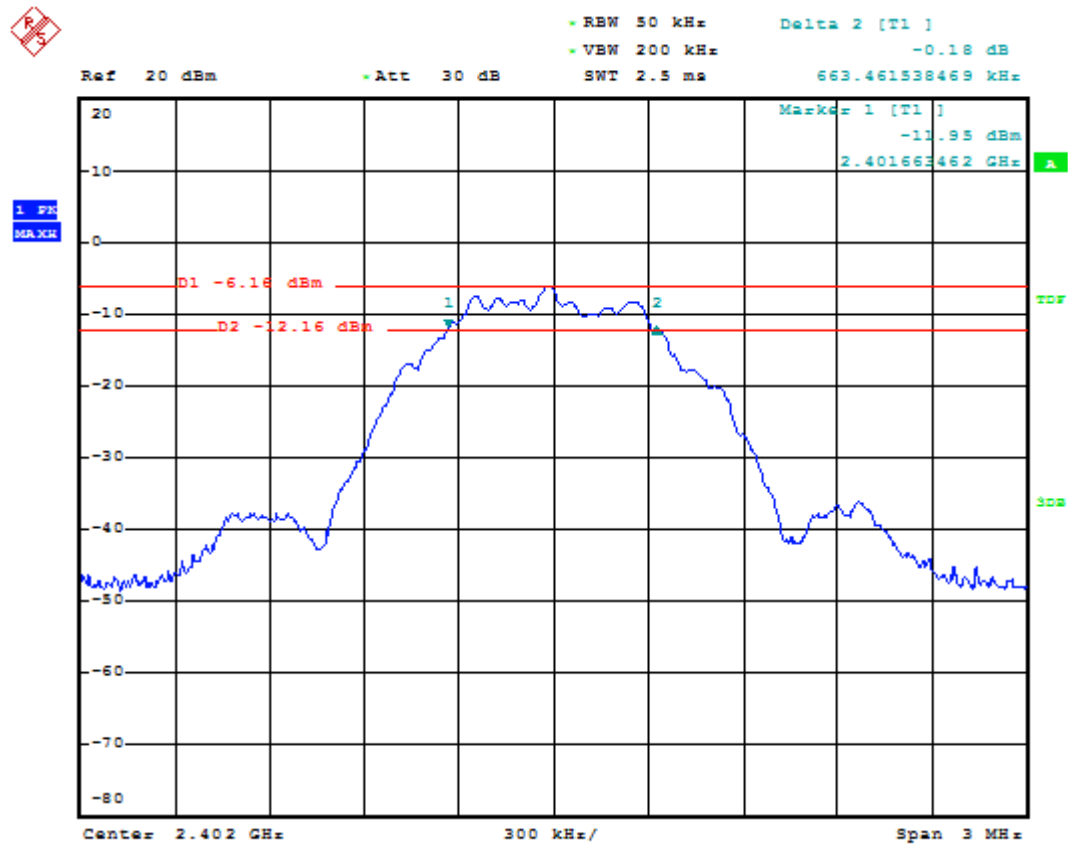
DC-Ch18-2442MHz



Date: 15.DEC.2016 16:02:26

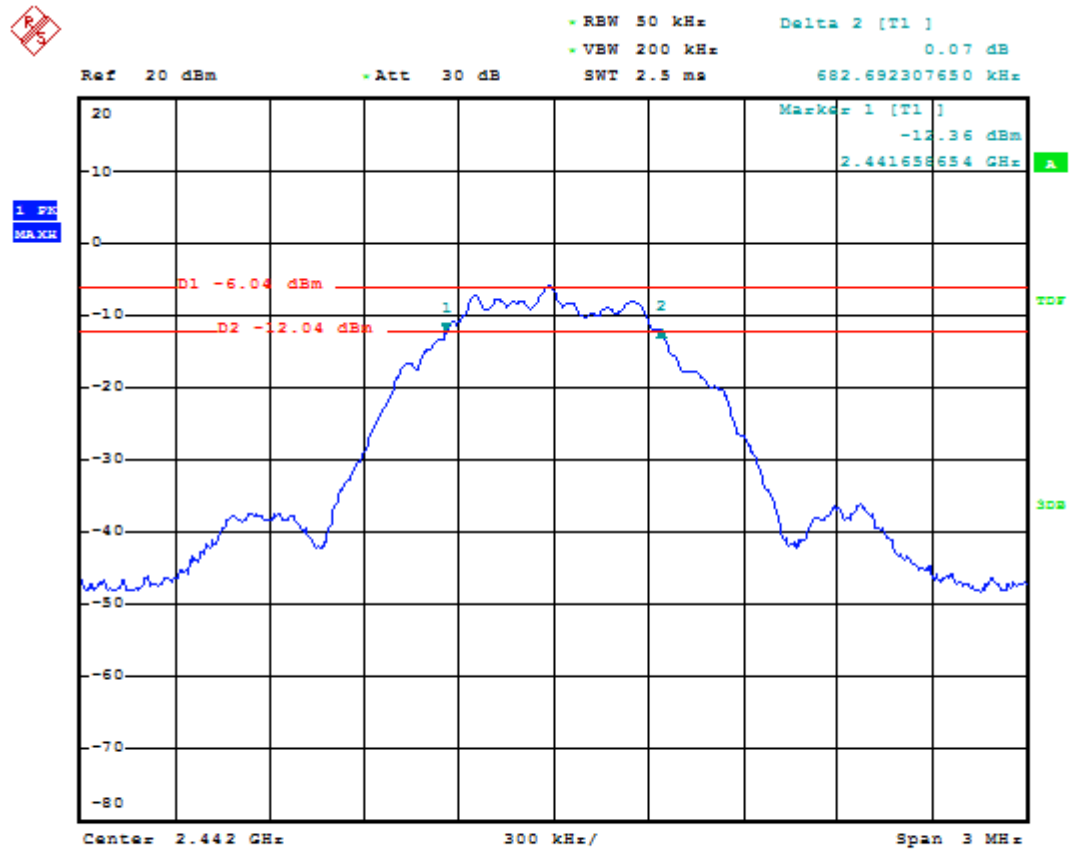
DC-Ch39-2480MHz

3.2. 6dB bandwidth



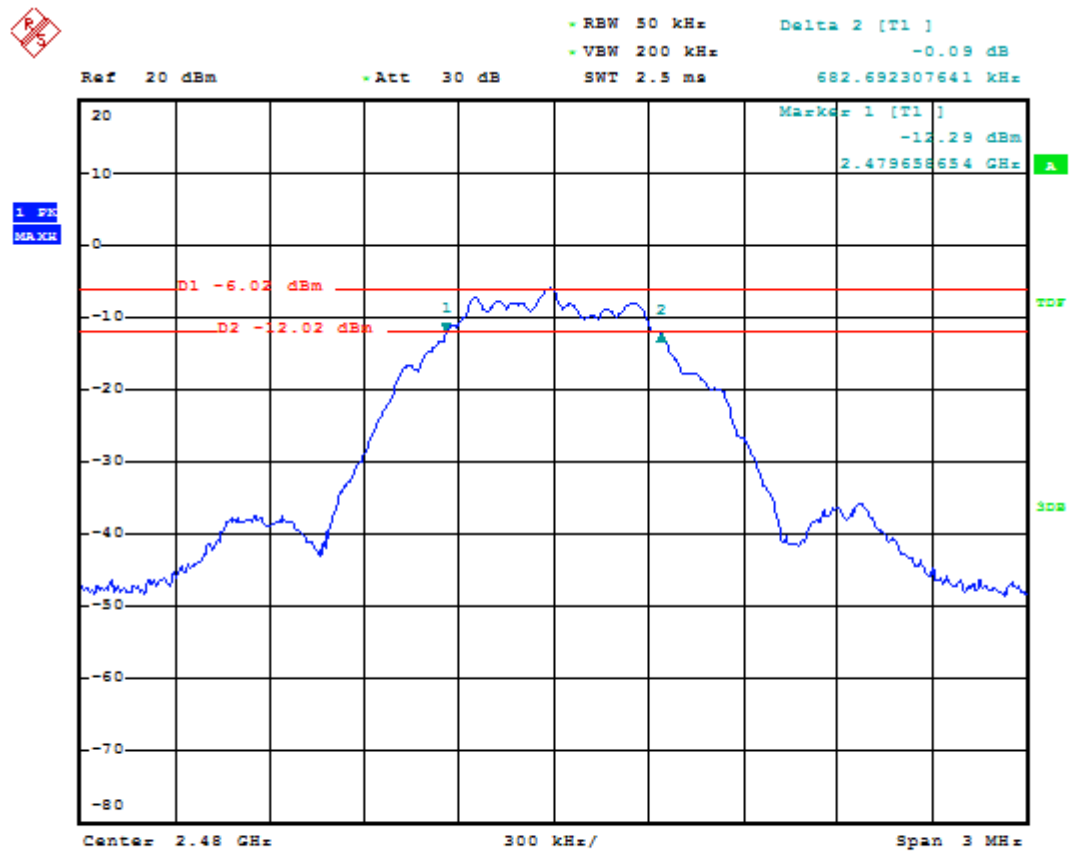
Date: 15.DEC.2016 14:29:47

6dB-BW-Ch37-2402MHz



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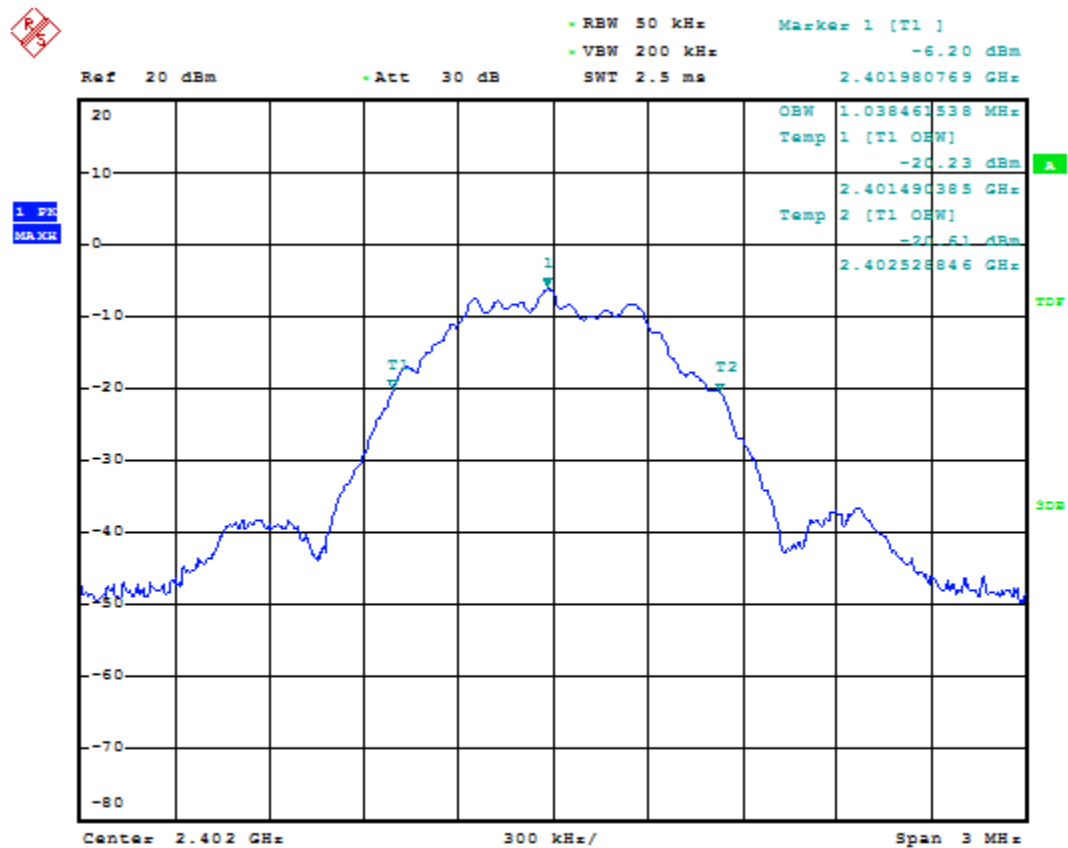
6dB-BW-Ch18-2442MHz



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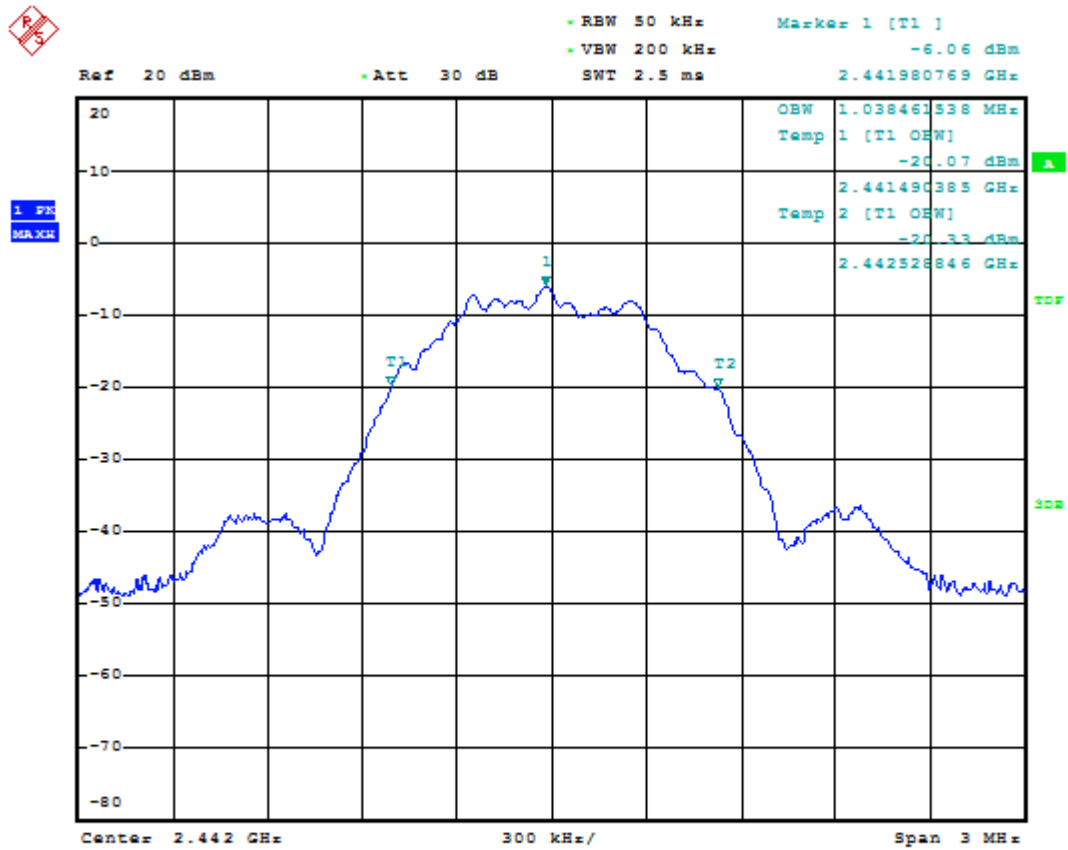
6dB-BW-Ch39-2480MHz

3.3. 99% occupied channel bandwidth



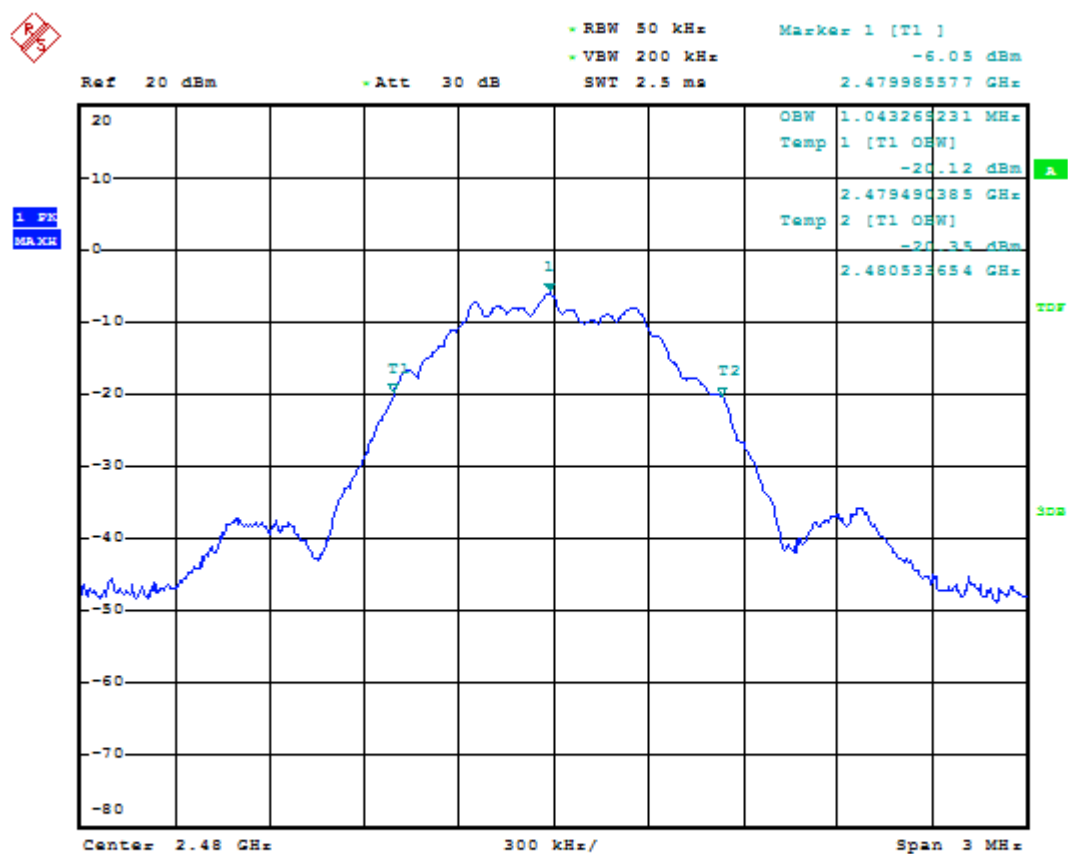
Date: 15.DEC.2016 14:59:34

99%-BW-Ch37-2402MHz



Date: 15.DEC.2016 14:57:04

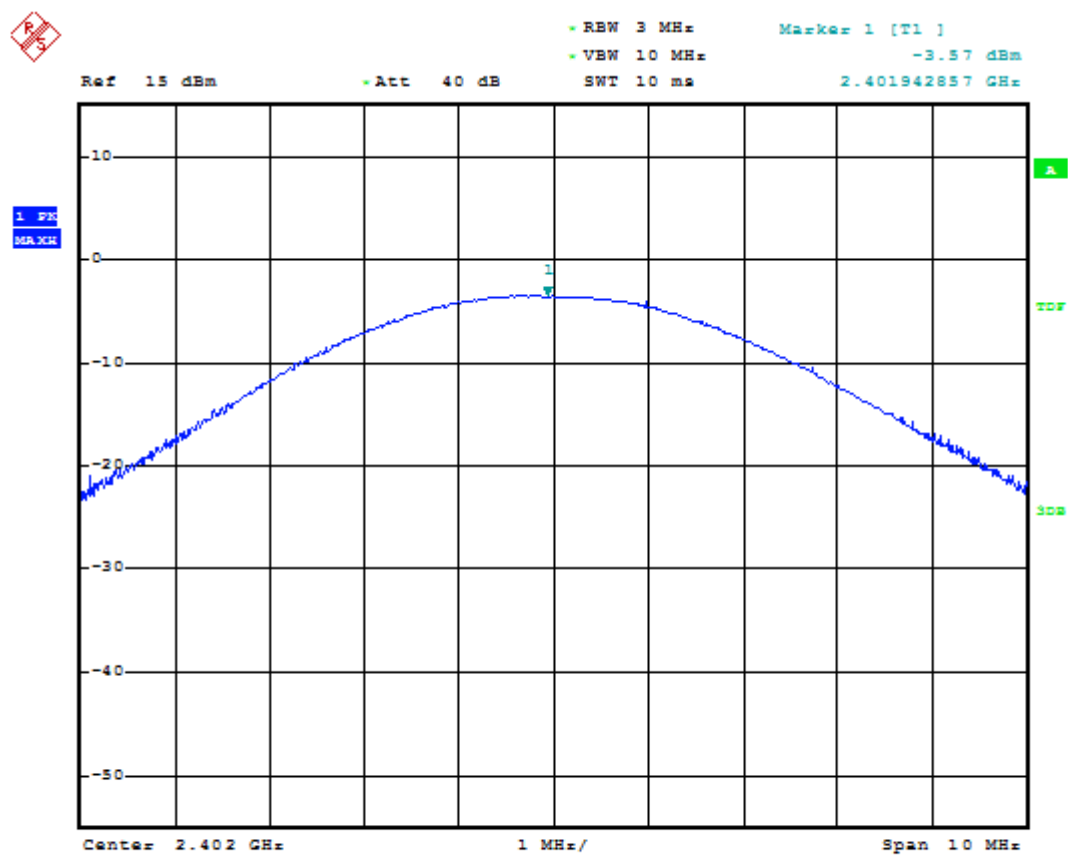
99%-BW-Ch18-2442MHz



Date: 15.DEC.2016 14:54:53

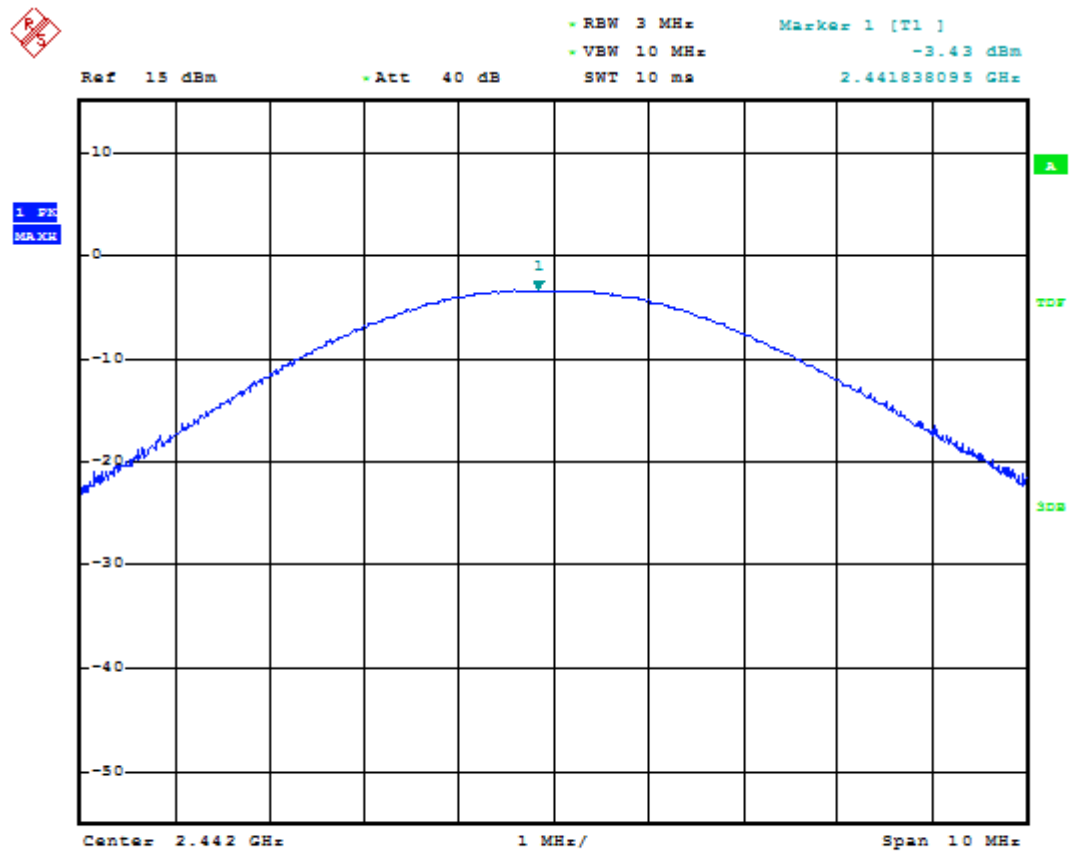
99%-BW-Ch39-2480MHz

3.4. Transmitter peak output power



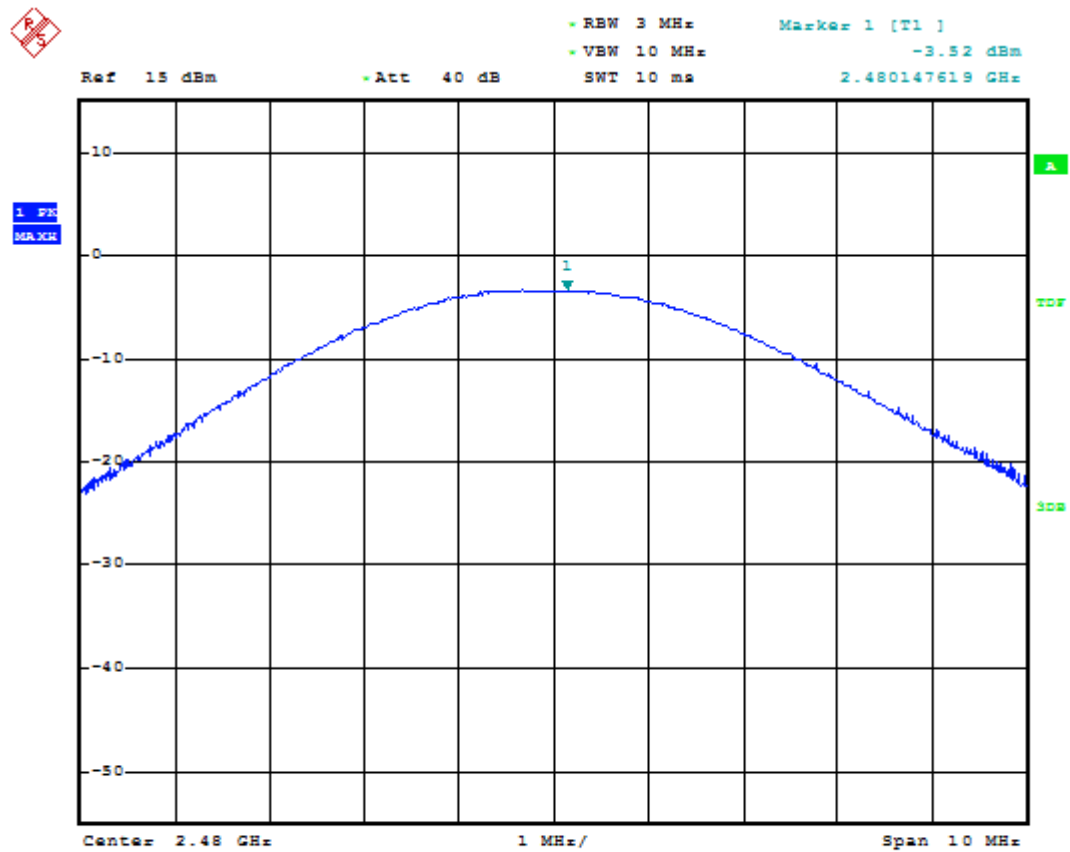
Date: 15.DEC.2016 15:50:58

PWR-Pk-Ch37-2402MHz



Date: 15.DEC.2016 15:49:55

PWR-Pk-Ch18-2442MHz

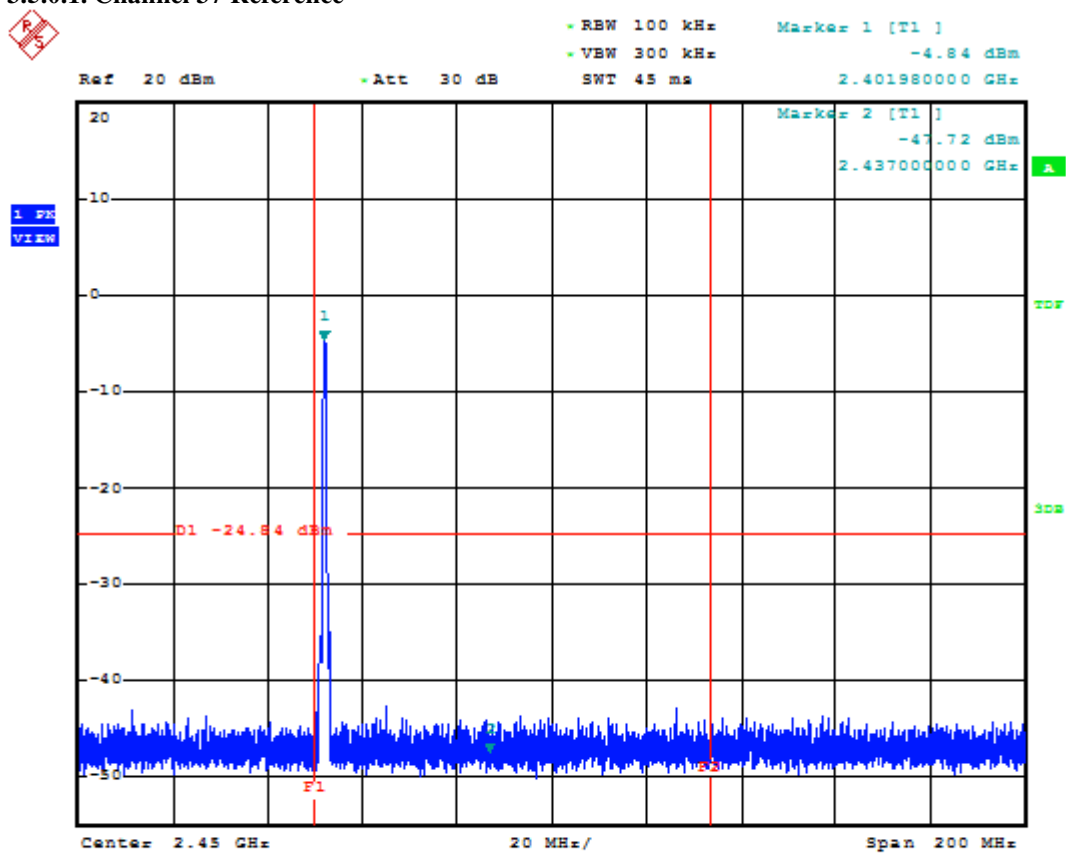


Date: 15.DEC.2016 15:47:27

PWR-Pk-Ch39-2480MHz

3.5. 20dBc Emissions

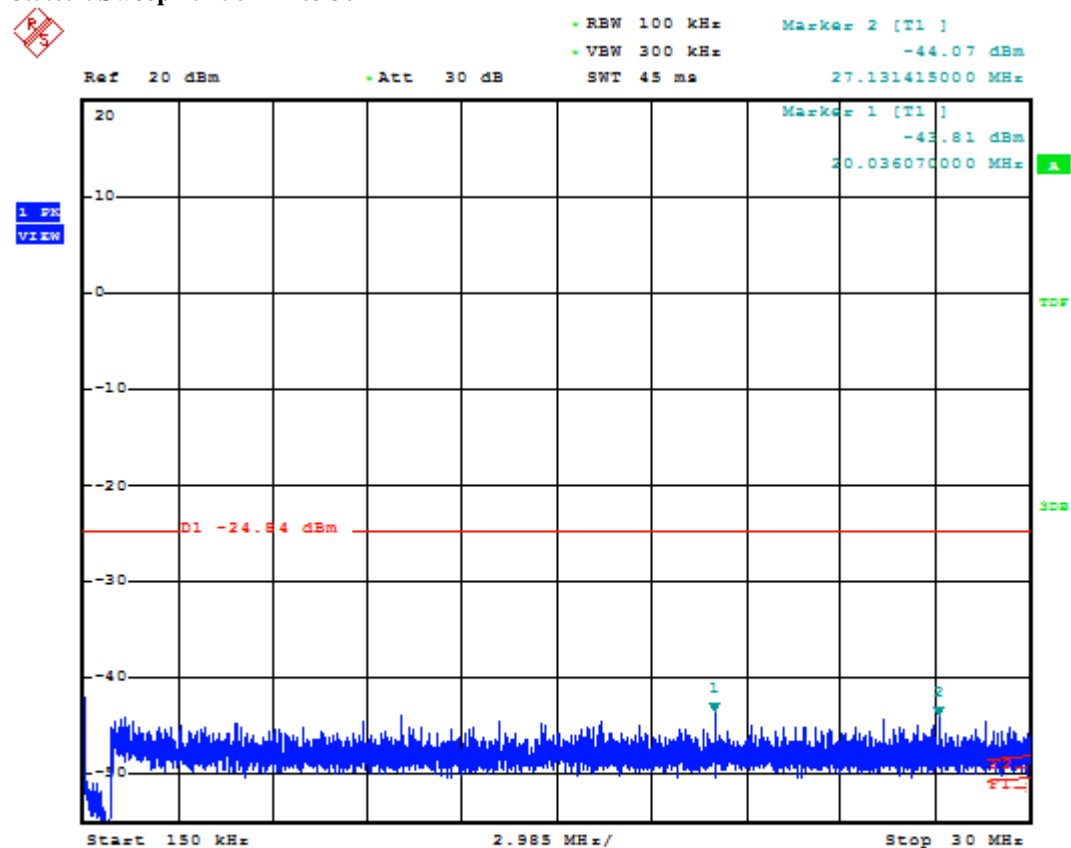
3.5.0.1. Channel 37 Reference



Date: 15.DEC.2016 16:13:53

20dBc-Ref-Ch37-2402MHz

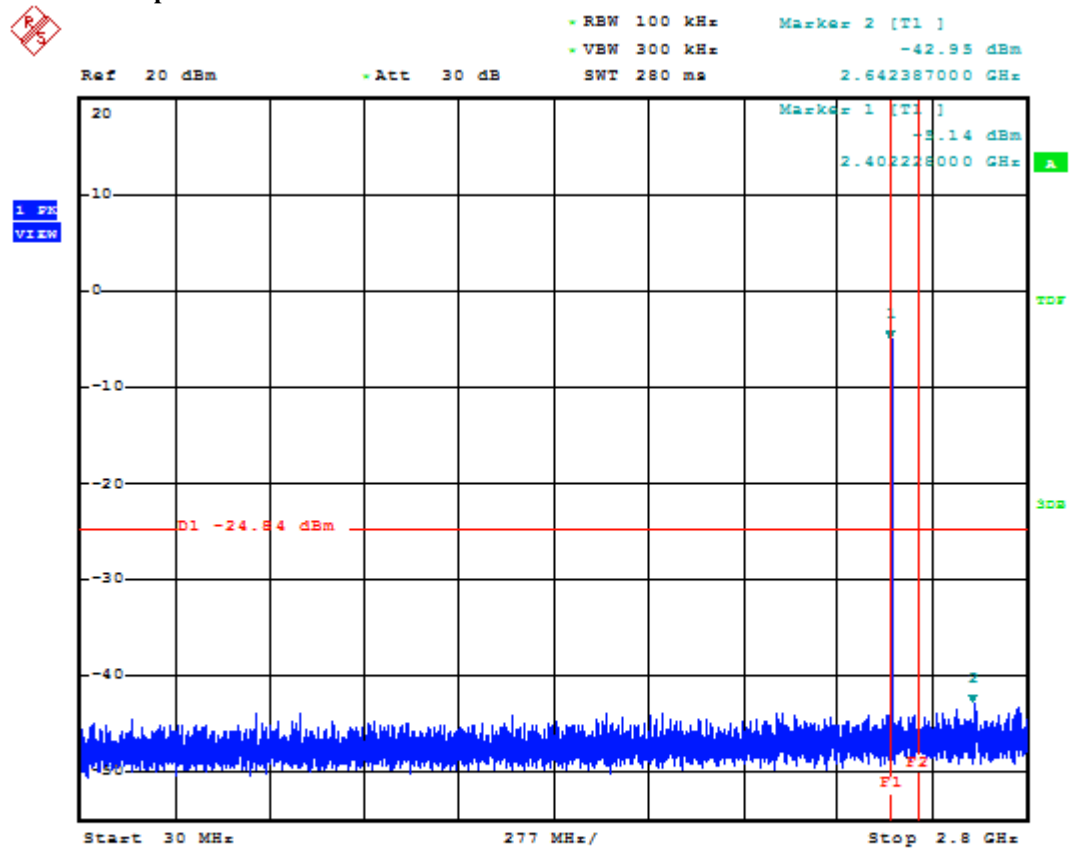
3.5.0.2. Sweep 1: 150kHz to 30MHz



Date: 15.DEC.2016 16:16:06

20dBc-0.15-30MHz-Ch37-2402MHz

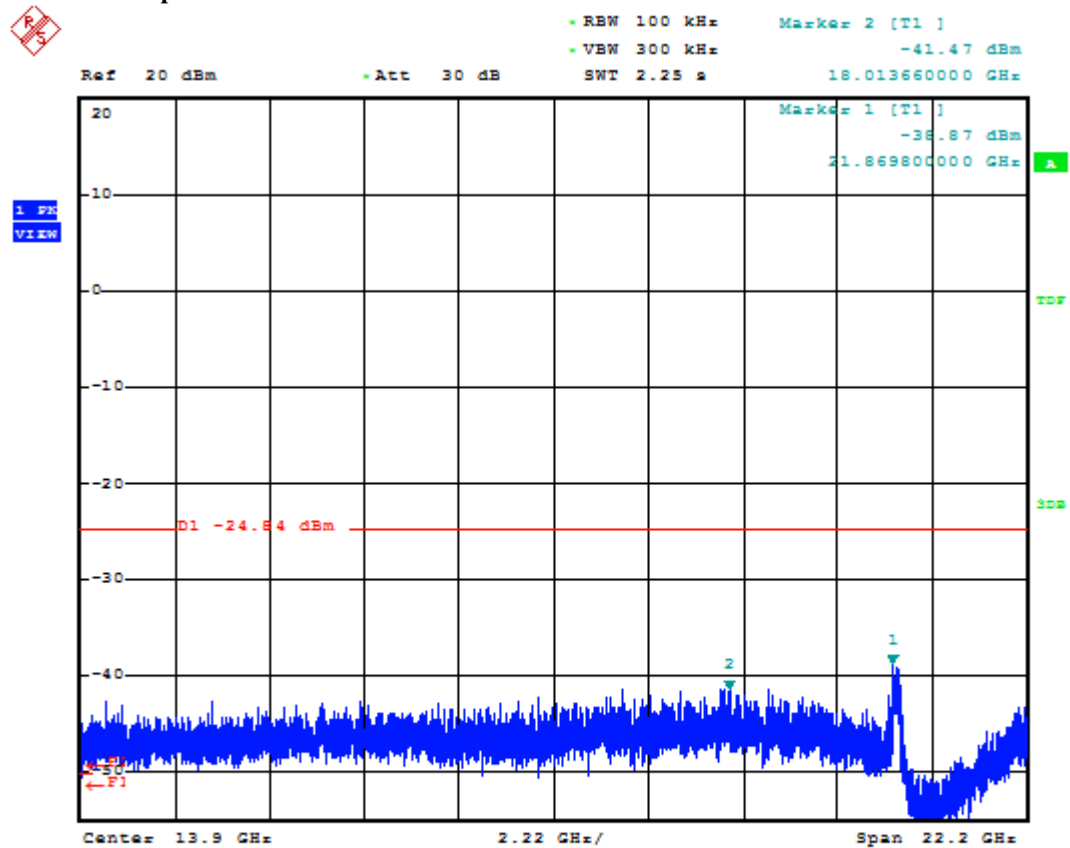
3.5.0.3. Sweep 2: 30MHz to 2.8GHz



Date: 15.DEC.2016 16:17:54

20dBc-30MHz-2.8GHz-Ch37-2402MHz

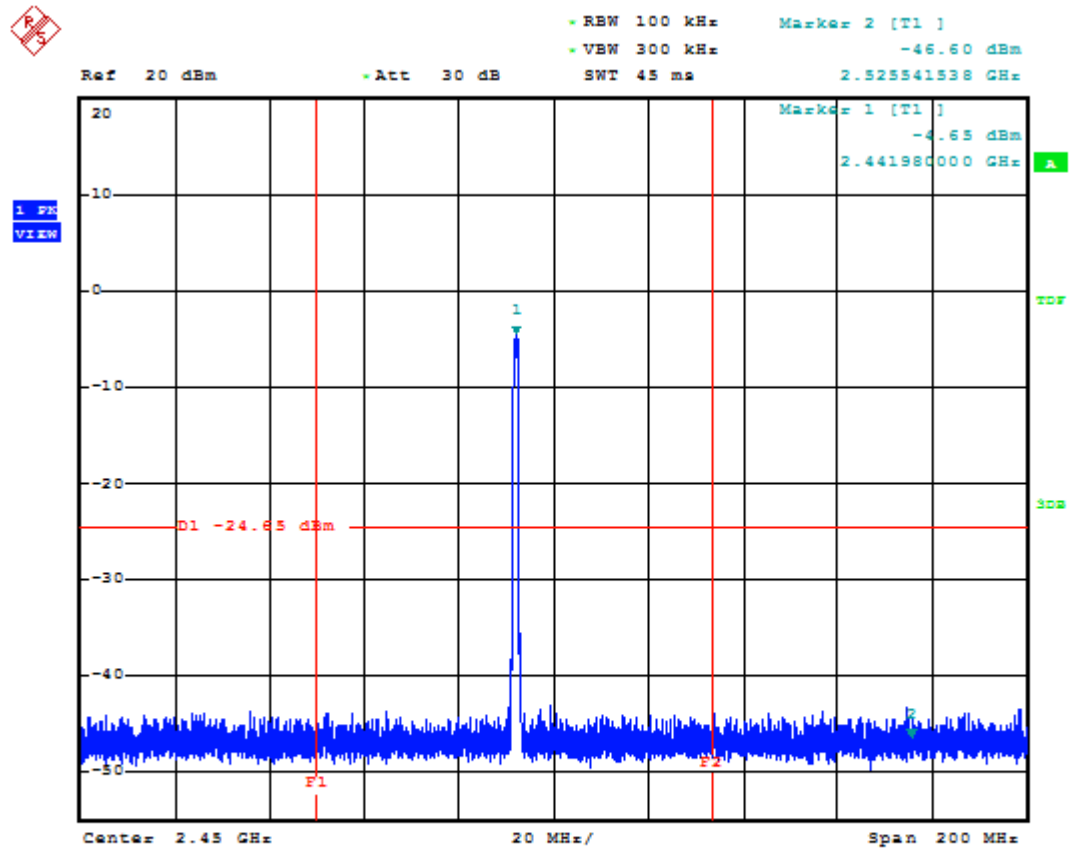
3.5.0.4. Sweep3: 2.8GHz to 25GHz



Date: 15.DEC.2016 16:21:14

20dBc-2.8GHz-25GHz-Ch37-2402MHz

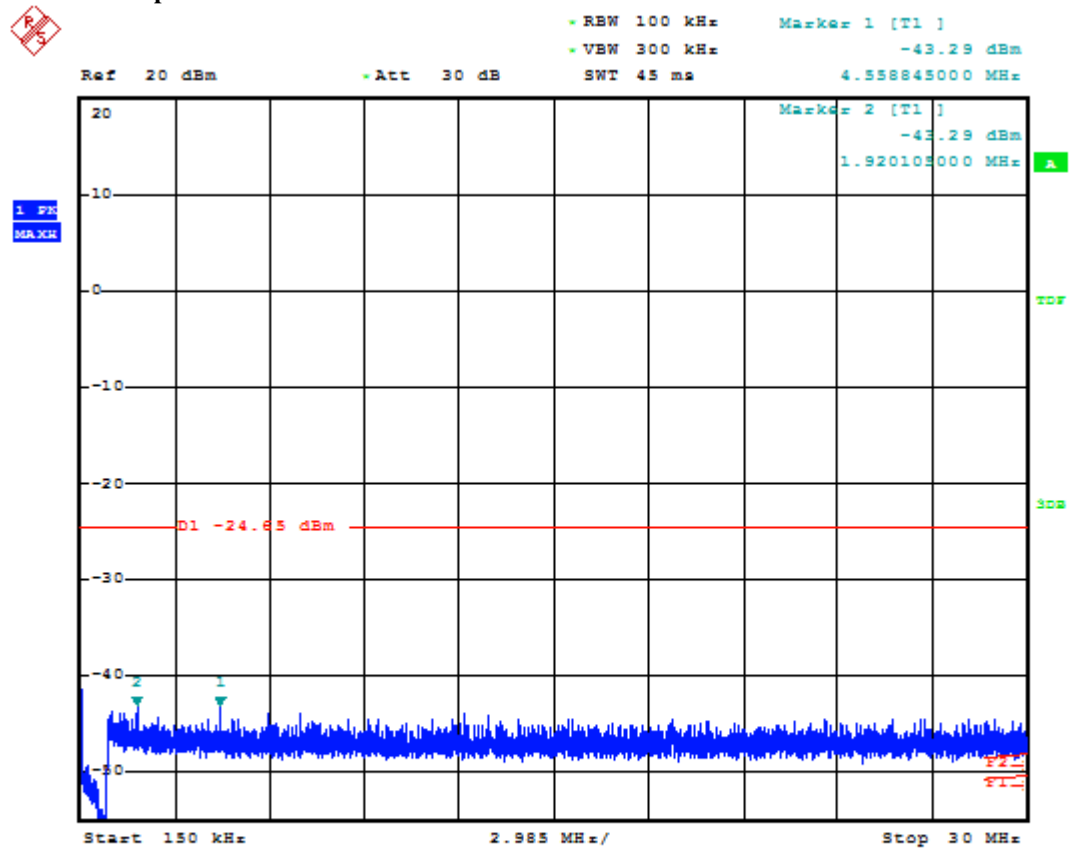
3.5.0.5. Channel 18 Reference



Date: 15.DEC.2016 16:23:37

20dBc-Ref-Ch18-2442MHz

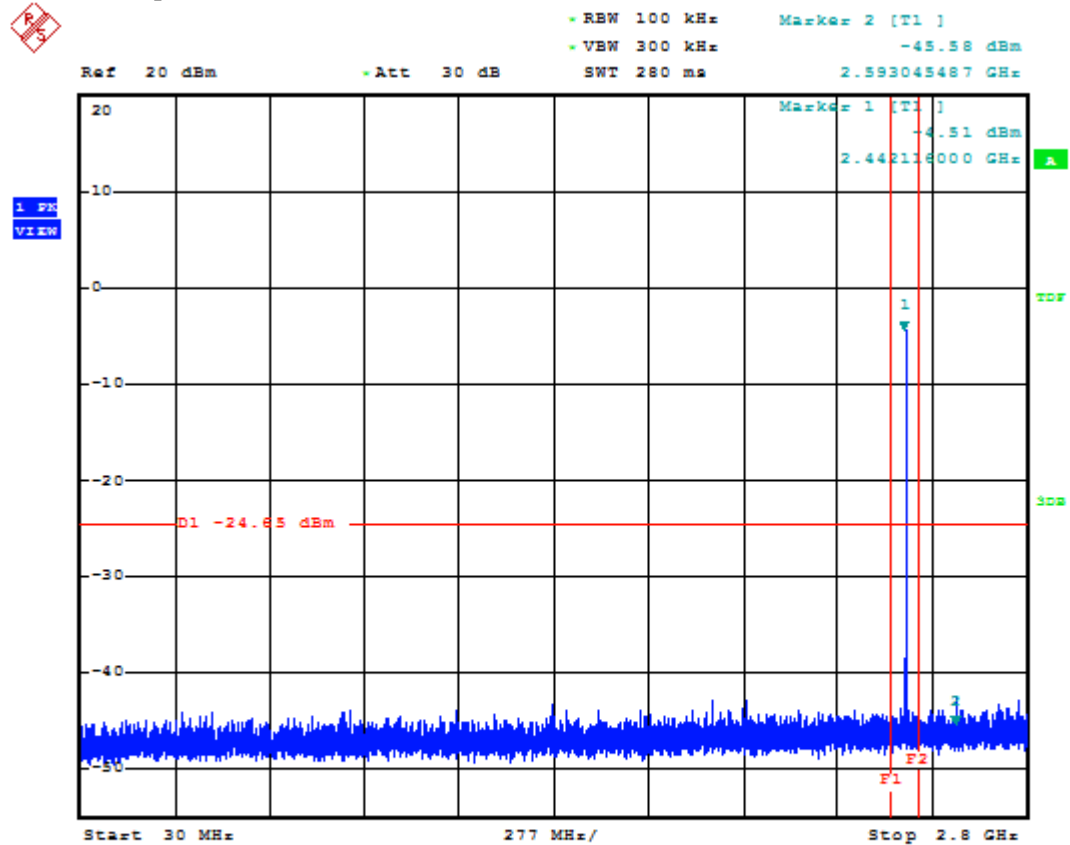
3.5.0.6. Sweep 1: 150kHz to 30MHz



Date: 15.DEC.2016 16:27:24

20dBc-0.15-30MHz-Ch18-2442MHz

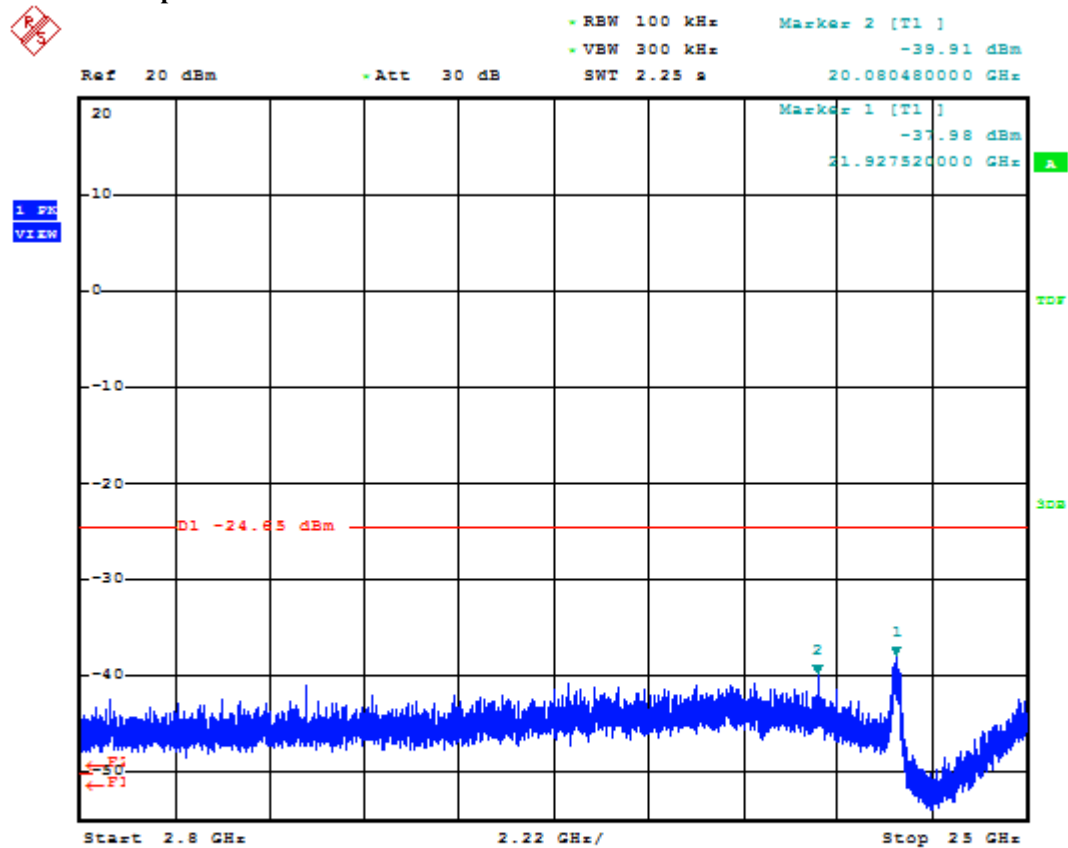
3.5.0.7. Sweep 2: 30MHz to 2.8GHz



Date: 15.DEC.2016 16:28:59

20dBc-30MHz-2.8GHz-Ch18-2442MHz

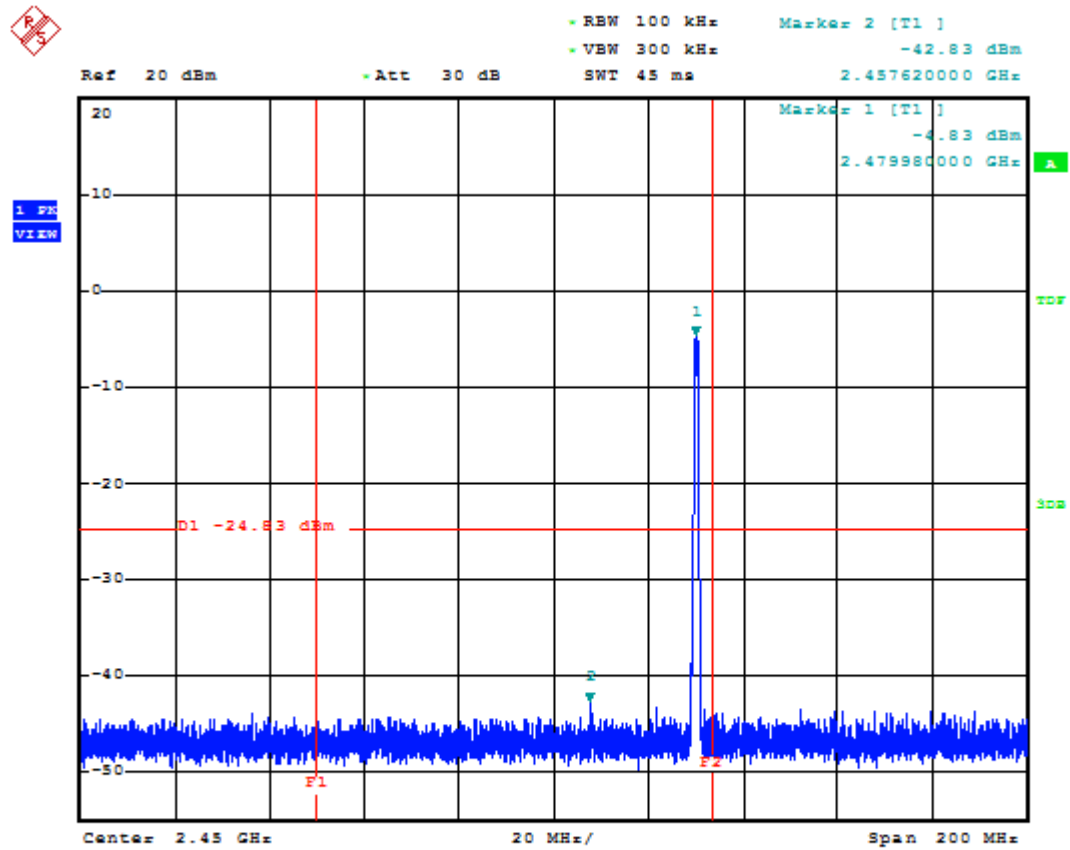
3.5.0.8. Sweep3: 2.8GHz to 25GHz



Date: 15.DEC.2016 16:30:31

20dBc-2.8GHz-25GHz-Ch18-2442MHz

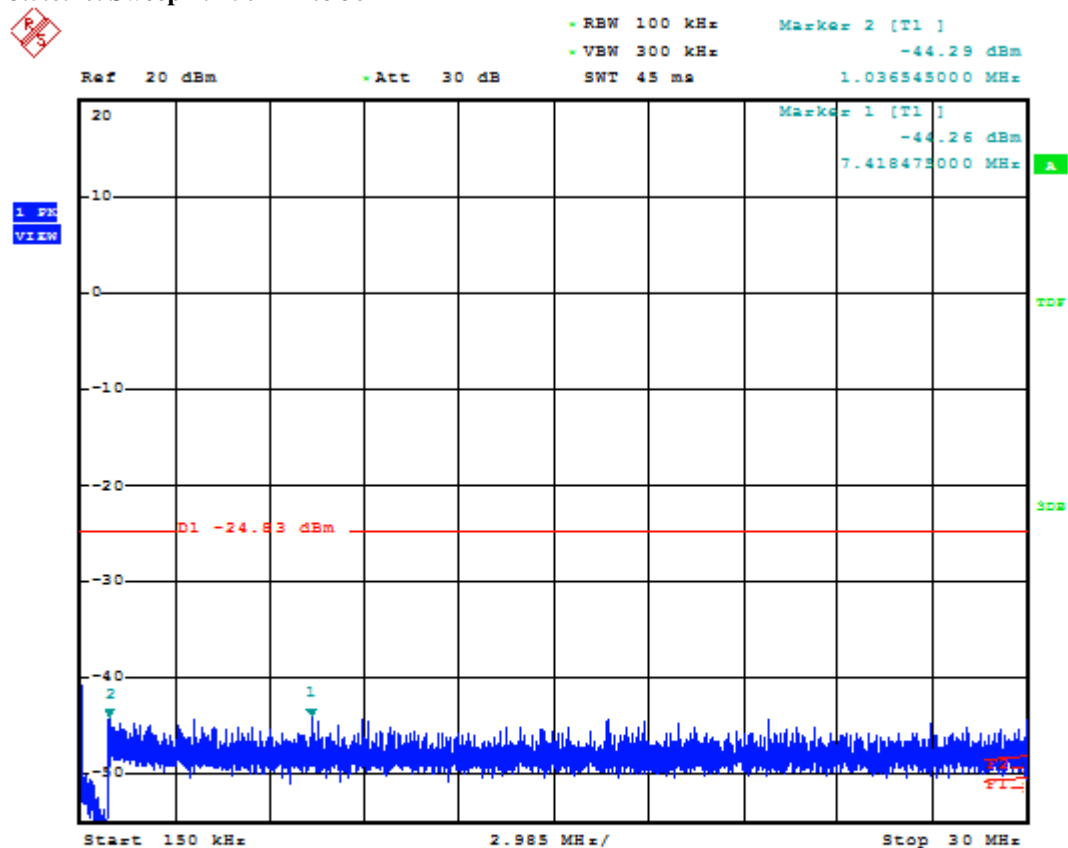
3.5.0.9. Channel 39 Reference



Date: 15.DEC.2016 16:33:38

20dBc-Ref-Ch39-2480MHz

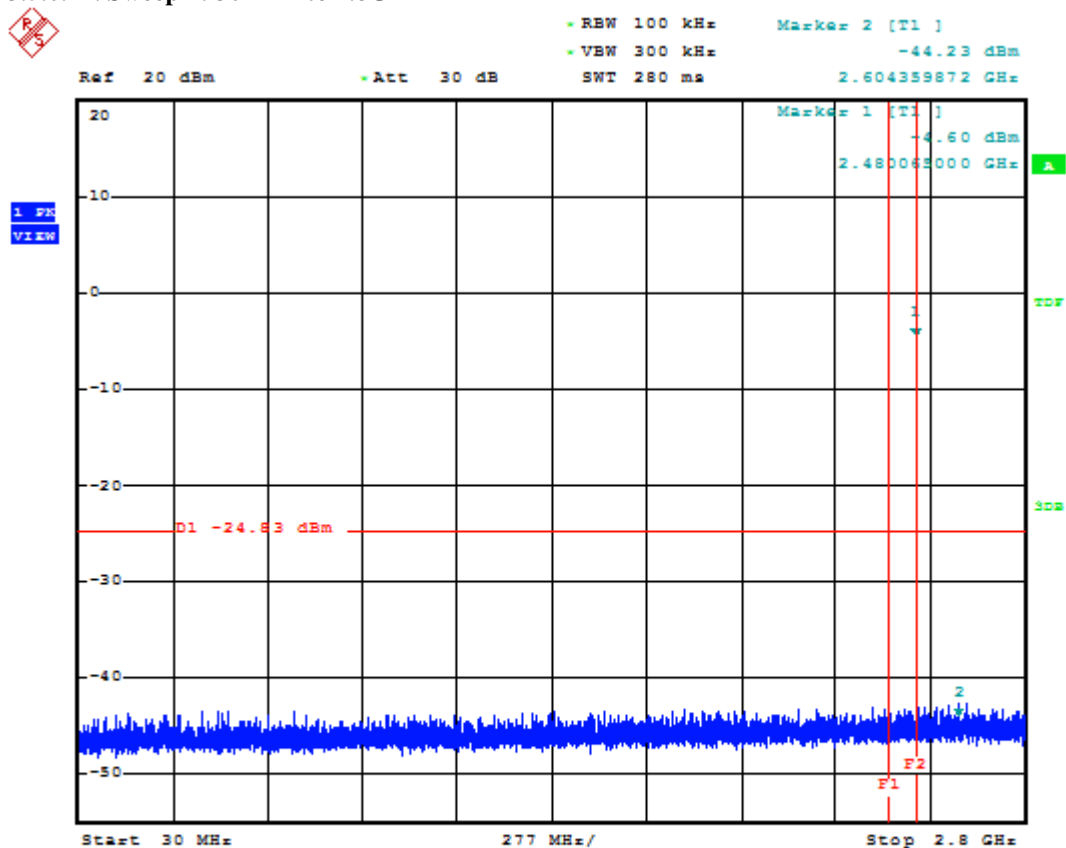
3.5.0.10. Sweep 1: 150kHz to 30MHz



Date: 15.DEC.2016 16:35:11

20dBc-0.15-30MHz-Ch39-2480MHz

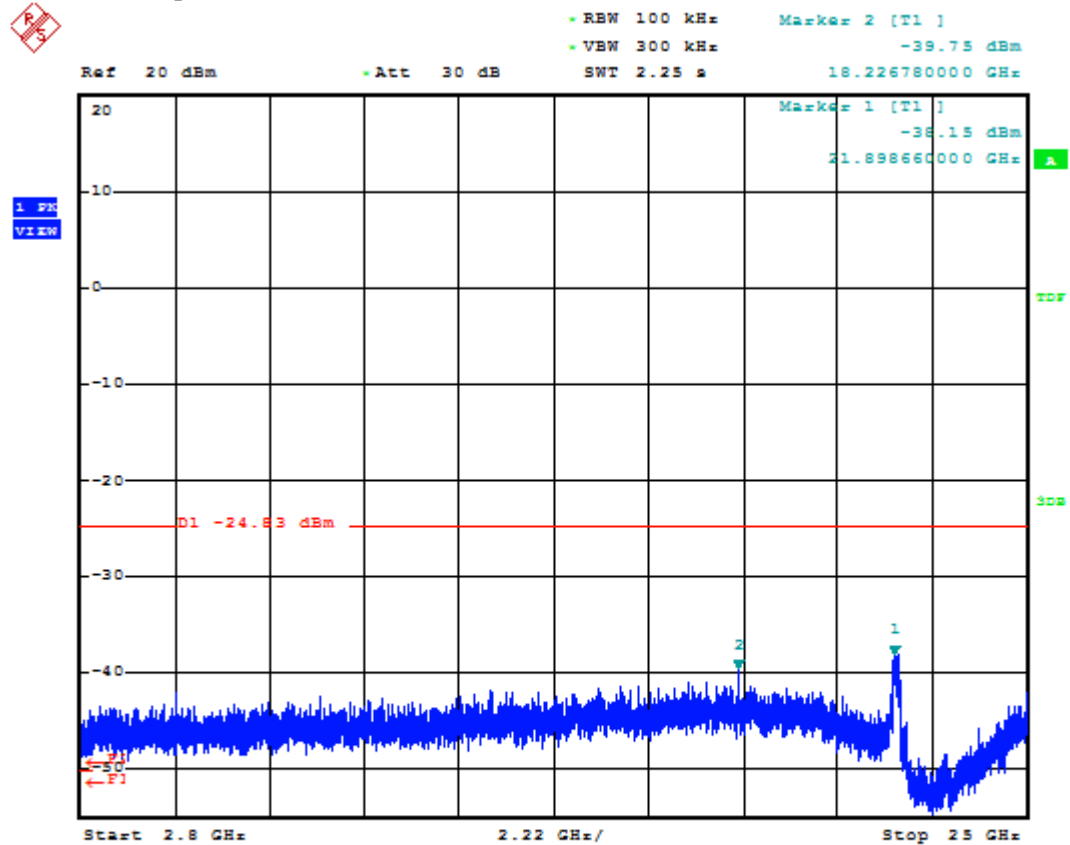
3.5.0.11. Sweep 2: 30MHz to 2.8GHz



Date: 15.DEC.2016 16:39:26

20dBc-30MHz-2.8GHz-Ch39-2480MHz

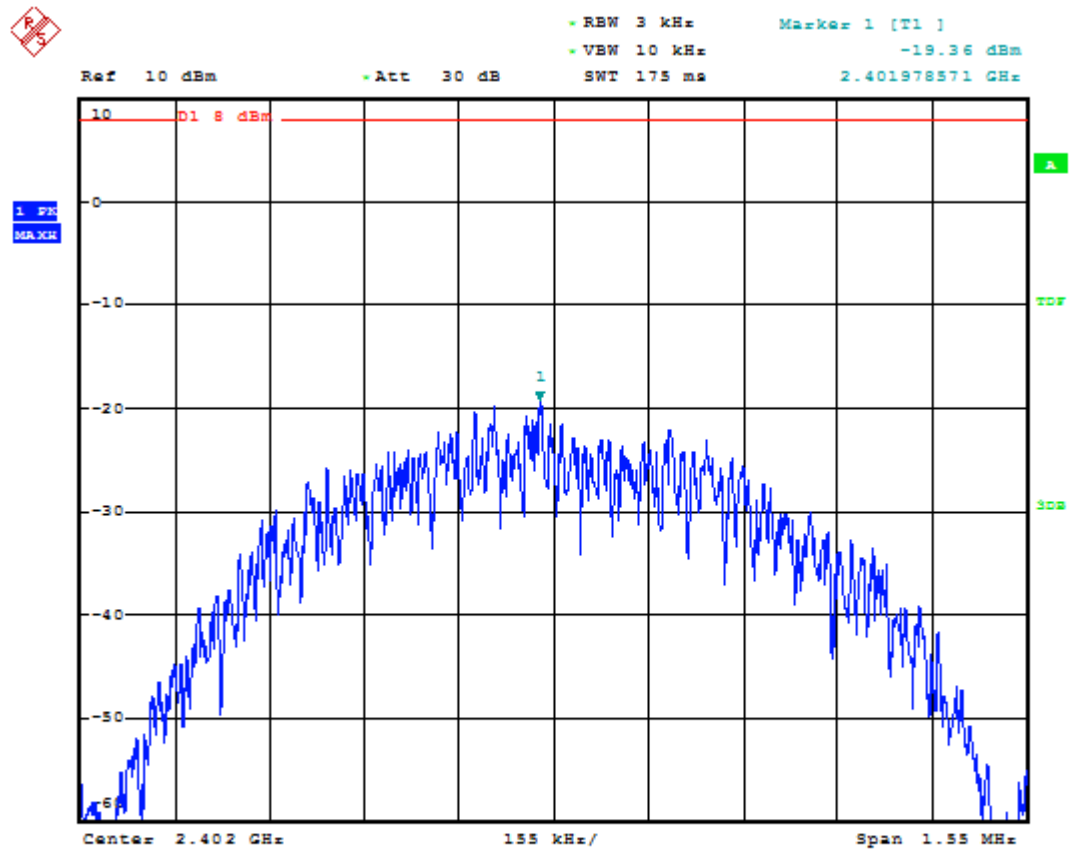
3.5.0.12. Sweep3: 2.8GHz to 25GHz



Date: 15.DEC.2016 16:41:04

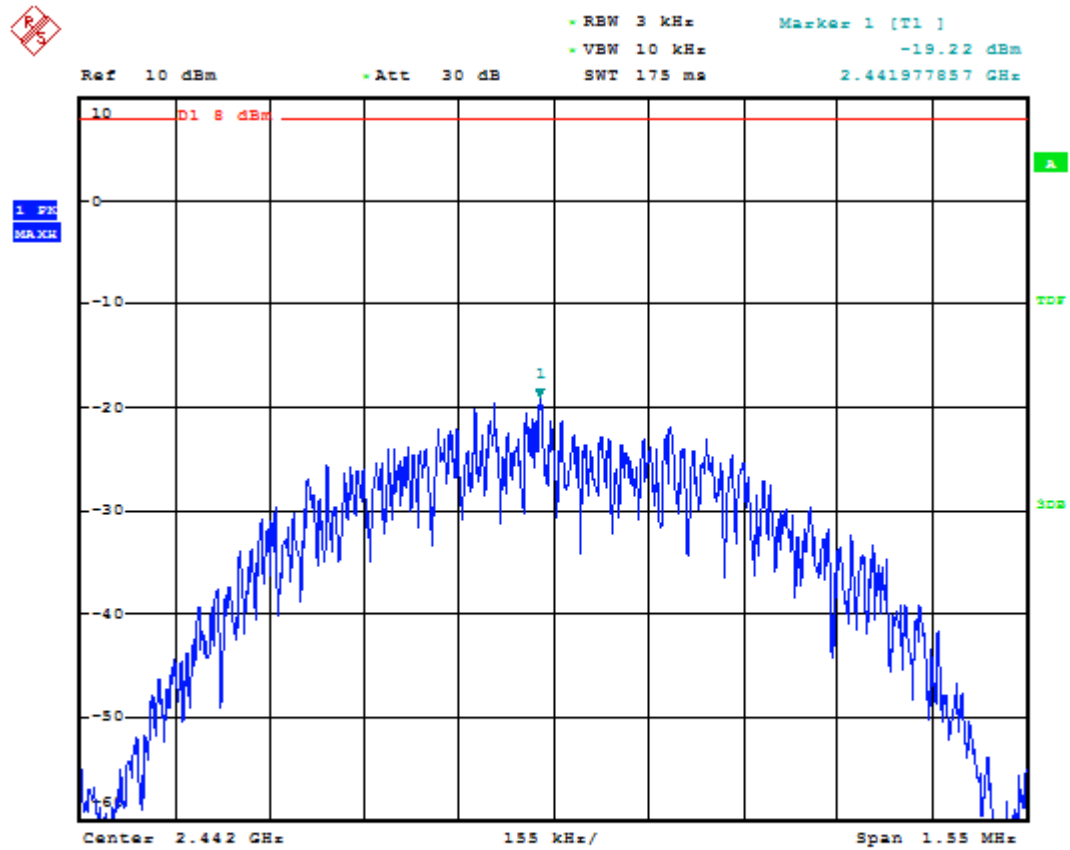
20dBc-2.8GHz-25GHz-Ch39-2480MHz

3.6. Power spectral density



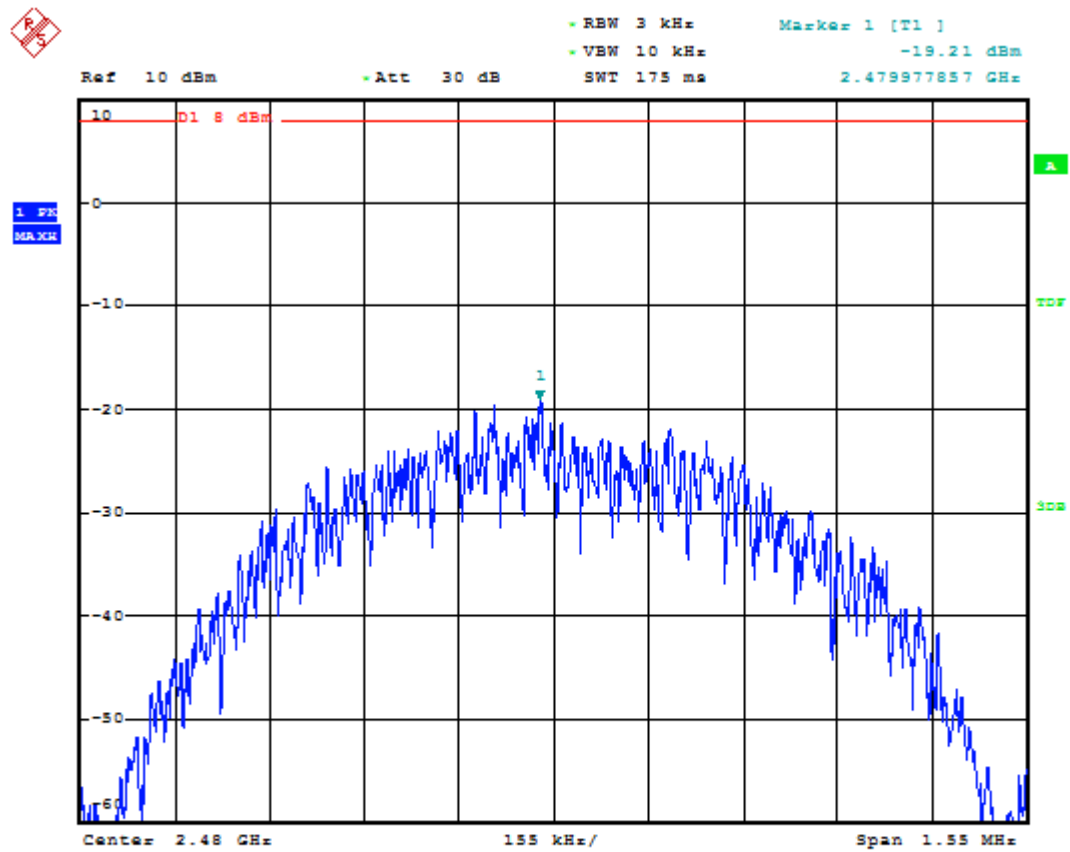
Date: 15.DEC.2016 15:33:06

PSD-Pk-Ch37-2402MHz



Date: 15.DEC.2016 15:37:03

PSD-Pk-Ch18-2442MHz



Date: 15.DEC.2016 15:38:28

PSD-Pk-Ch39-2480MHz