

Annex 1: Measurement diagrams to

TEST REPORT No.: 18-1-0048601T02a-C1

> According to: FCC Regulations Part 15.205 & Part 15.209 Part 15.247

> > **ISED-Regulations**

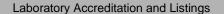
RSS-Gen, Issue 5 RSS-247, Issue 2

for

Robert Bosch Car and Multimedia GmbH

AIVIV20 Car radio with navigation, WLAN and Bluetooth

FCC ID: YBN-AIVIV20 ISED: 9595A-AIVIV20





Accredited EMC-Test Laboratory





accredited according to DIN EN ISO/IEC 17025

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Laboratory Accreditation and Listings



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1. Measurement diagrams

1.1. Duty-Cycle



1.2. RF-Parameter - 6dB and 99% Occupied Bandwidth

1.2.1. 6dB b-mode

Minimum Emission Bandwidth 6 dB (2412 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

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

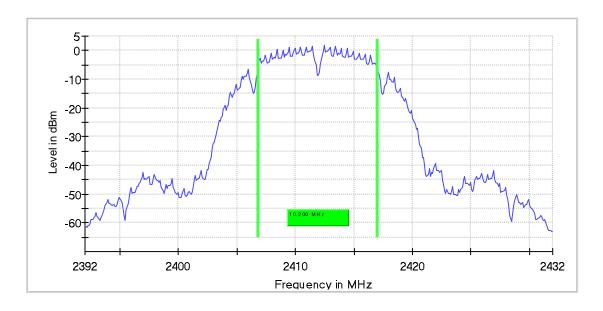
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	10.200000	0.500000		2406.850000	2417.050000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency	Max Level	Result
(MHz)	(dBm)	
2412.000000	1.9	PASS





Minimum Emission Bandwidth 6 dB (2437 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

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

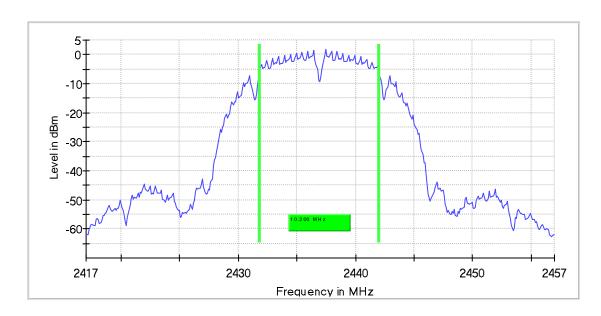
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	10.200000	0.500000		2431.850000	2442.050000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	1.7	PASS





Minimum Emission Bandwidth 6 dB (2462 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

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

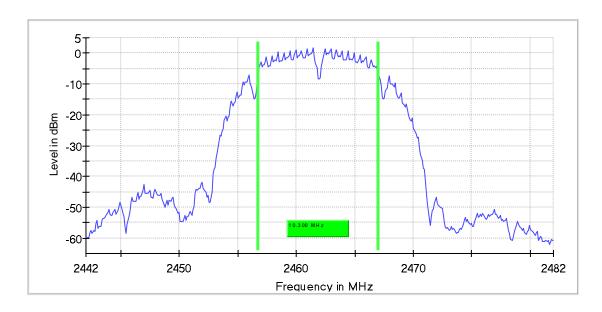
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	10.300000	0.500000		2456.750000	2467.050000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	1.6	PASS





1.2.2. 6dB g-mode

Minimum Emission Bandwidth 6 dB (2412 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

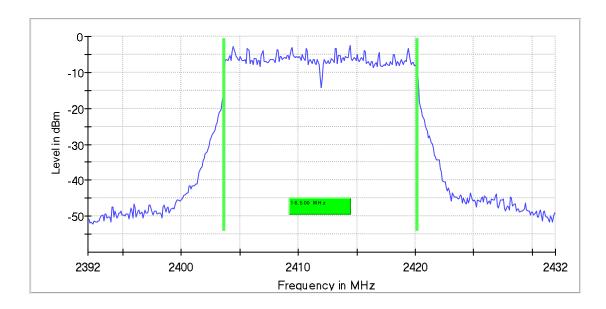
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.500000	0.500000		2403.650000	2420.150000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	-2.4	PASS





Minimum Emission Bandwidth 6 dB (2437 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

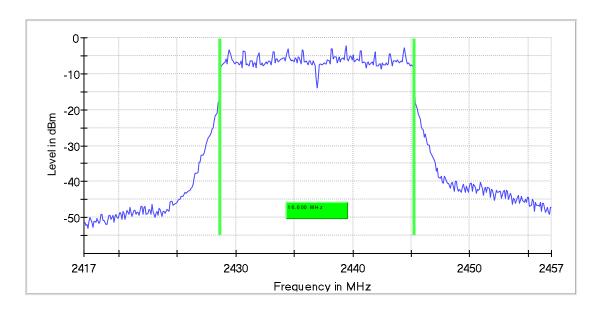
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.600000	0.500000		2428.650000	2445.250000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-2.2	PASS





Minimum Emission Bandwidth 6 dB (2462 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

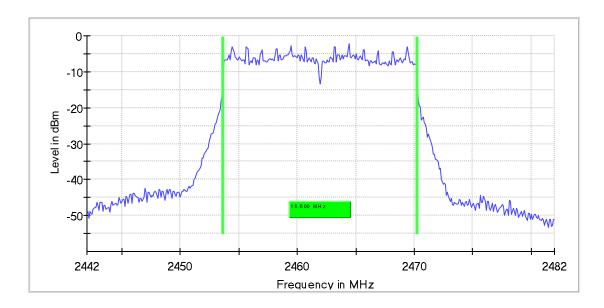
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.600000	0.500000		2453.650000	2470.250000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	-2.2	PASS





1.2.3. 6dB n20-mode

Minimum Emission Bandwidth 6 dB (2412 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

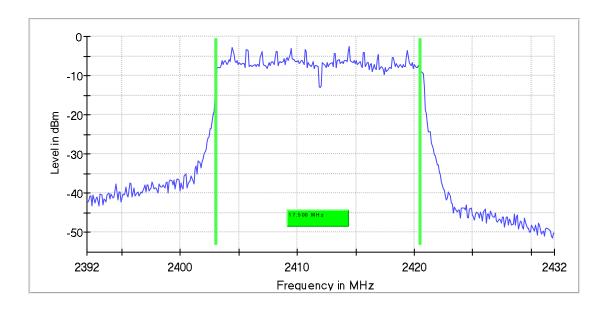
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.500000	0.500000	-	2403.050000	2420.550000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	-2.6	PASS





dBm); 20 MHz)

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

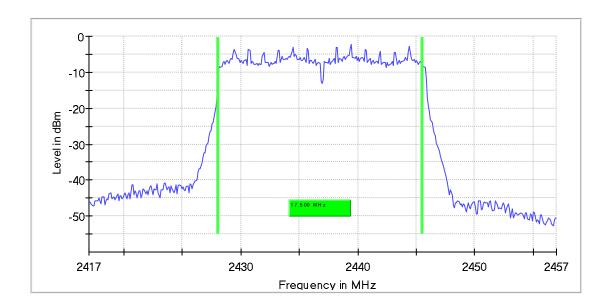
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.500000	0.500000		2428.050000	2445.550000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-2.3	PASS





Minimum Emission Bandwidth 6 dB (2462 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

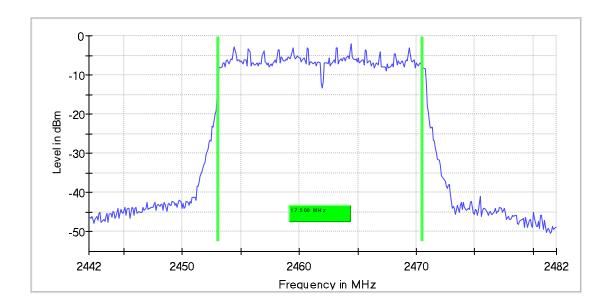
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.500000	0.500000		2453.050000	2470.550000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	-2.2	PASS





1.2.4. 6dB n40-mode

Minimum Emission Bandwidth 6 dB (2422 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

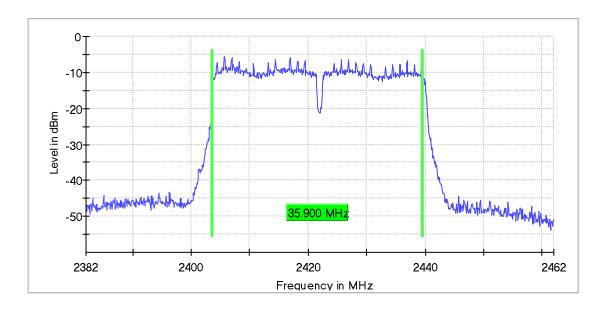
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	35.900000	0.500000		2403.650000	2439.550000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	-5.6	PASS





Minimum Emission Bandwidth 6 dB (2437 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

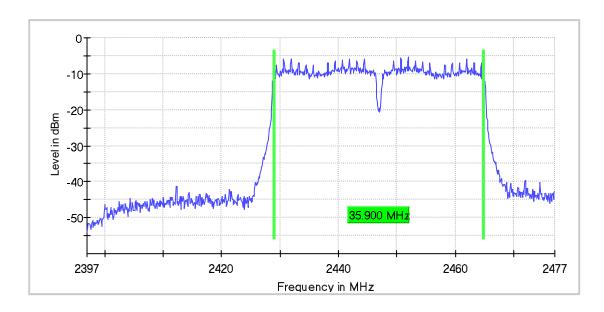
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	35.900000	0.500000		2428.950000	2464.850000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-5.3	PASS





Minimum Emission Bandwidth 6 dB (2452 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

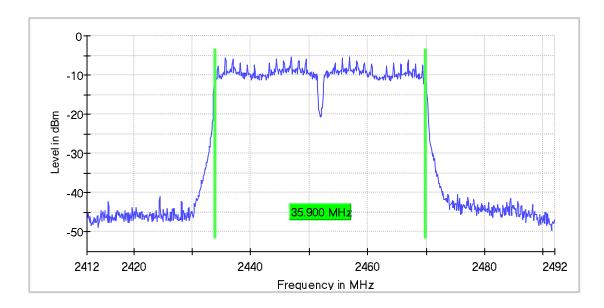
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

6 dB Bandwidth

	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
Ī	2452.000000	35.900000	0.500000		2433.950000	2469.850000

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	-5.4	PASS





1.2.5. 99% b-mode

Emission Bandwidth 99% (2412 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

Customized settings.

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

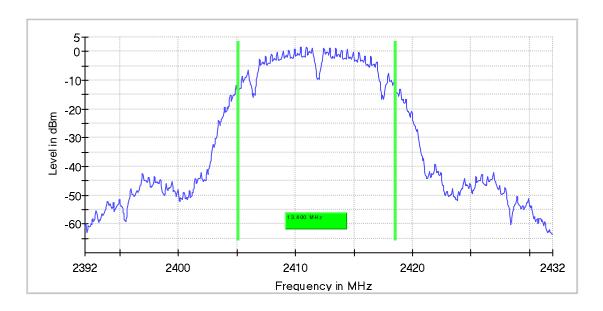
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	13.400000			2405.125000	2418.525000

(continuation of the "99% Bandwidth" table from column 6 ...)

	DUT Frequency (MHz)	Max Level (dBm)	Result
ſ	2412.000000	1.5	PASS





Emission Bandwidth 99% (2437 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

Customized settings.

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

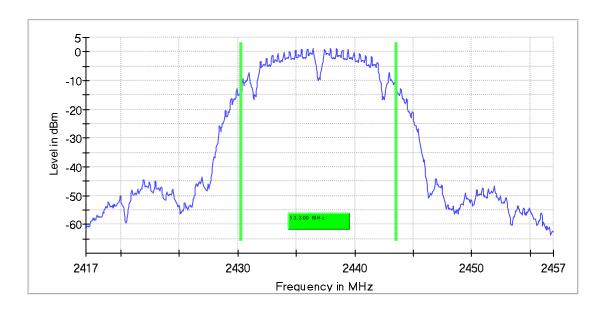
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	13.300000			2430.275000	2443.575000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	1.2	PASS





Emission Bandwidth 99% (2462 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

Customized settings.

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

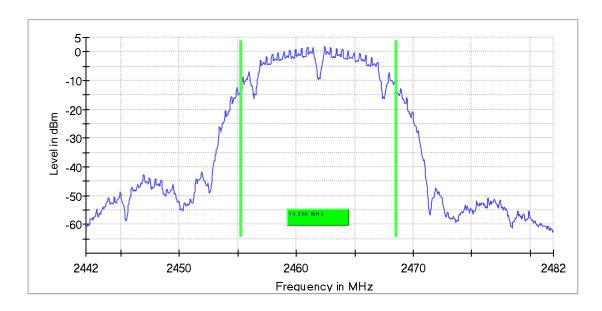
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	13.250000			2455.275000	2468.525000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	1.8	PASS





1.2.6. 99% g-mode

Emission Bandwidth 99% (2412 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

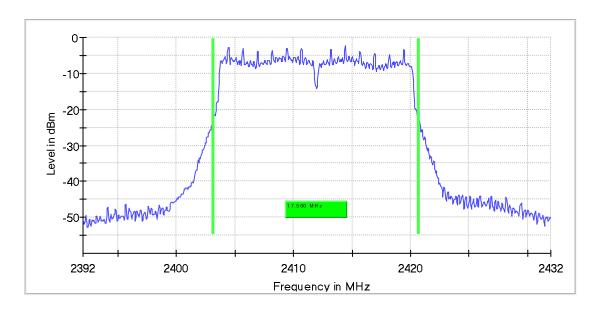
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.500000			2403.175000	2420.675000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	-2.4	PASS





Emission Bandwidth 99% (2437 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

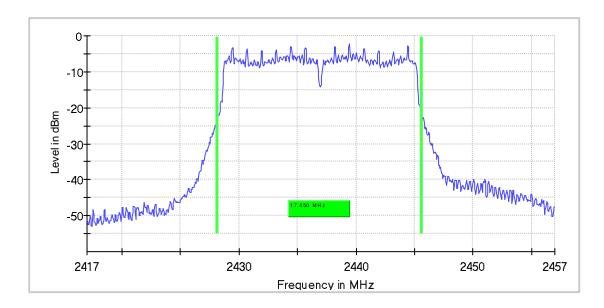
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.450000			2428.175000	2445.625000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-2.2	PASS





Emission Bandwidth 99% (2462 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

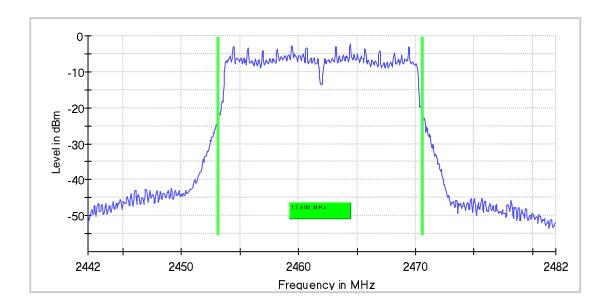
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.400000			2453.175000	2470.575000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	-2.2	PASS





1.2.7. 99% n20-mode

Emission Bandwidth 99% (2412 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

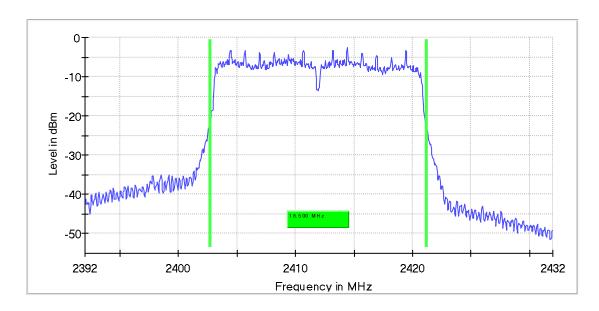
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	18.500000	1	-	2402.675000	2421.175000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	-2.5	PASS





Emission Bandwidth 99% (2437 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

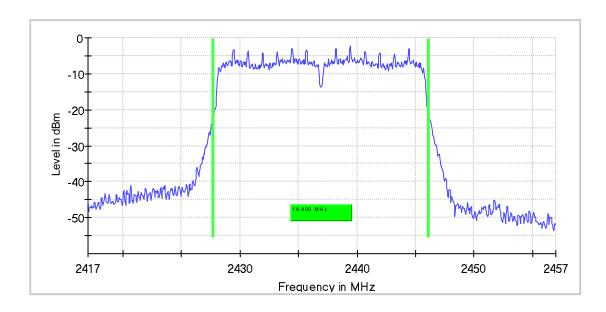
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
Ī	2437.000000	18.400000			2427.725000	2446.125000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-2.3	PASS





Emission Bandwidth 99% (2462 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

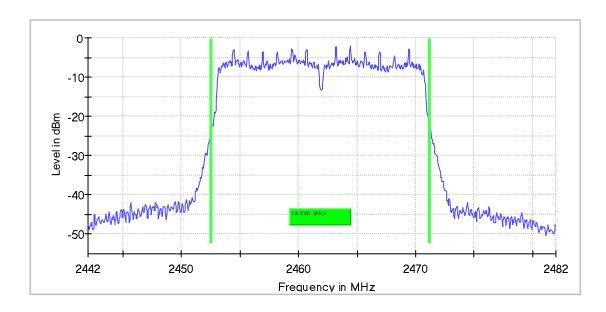
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	18.650000			2452.525000	2471.175000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	-2.2	PASS





1.2.8. 99% n40-mode

Emission Bandwidth 99% (2422 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

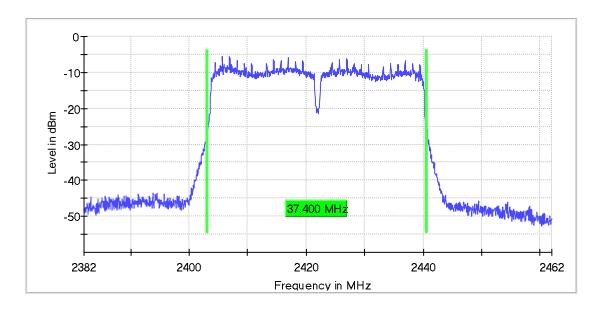
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	37.400000			2403.125000	2440.525000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	-5.5	PASS





Emission Bandwidth 99% (2437 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

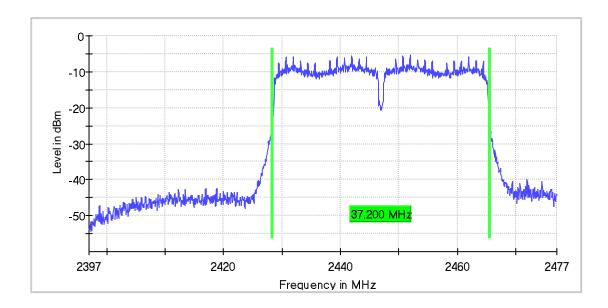
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	37.200000			2428.325000	2465.525000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-5.4	PASS





Emission Bandwidth 99% (2452 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

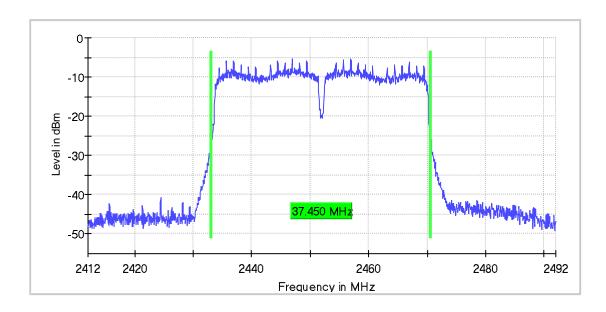
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

99% Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	37.450000			2433.125000	2470.575000

(continuation of the "99% Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	-5.4	PASS





1.3. General Limit – Maximum power output conducted

Operational bands:		b-mode		Operational bands:		g-mode	
Channel no.:	1	6	11	Channel no.:	1	6	11
	•				•		
b-mode				g-mode			
1MBit	10,92	10,30	10,60	6Mbit	8,18	7,69	8,34
2Mbit	10,90	10,92	10,60	9Mbit	8,04	7,73	8,32
5.5Mbit 11MBit	9,89 9,98	9,33 9,85	10,01 10,08	12Mbit 18Mbit	8,14 8,24	7,82 7,69	8,40 8,36
LIIVIDIL	9,96	9,65	10,08	24Mbit	8,20	7,69	8,31
				36Mbit	8,28	7,85	7,95
				48Mbit	8,29	7,76	8,01
				54MBit	8,30	7,85	8,00
Operational bands:		b-mode		Operational bands:		g-mode	
FCC&IC-Limits				FCC&IC-Limits			
output power		30,00		output power		30,00	
[dBm]				[dBm]			
FCC&IC-Limits				FCC&IC-Limits			
EIRP		36,00		EIRP		36,00	
[dBm]				[dBm]			
111.61		11		11 11 01 1		1111.01	
Limit Check:		Limit Check:		Limit Check:		Limit Check:	
Highest conducted power value over				Highest conducted power value over			
channels and		10,92		channels and		8,4	
modulations:				modulations:			
Margin to Limit		19,08		Margin to Limit		21,60	
output power:		19,00		output power:		21,00	
Declared antenna Gain		6,10		Declared antenna Gain		6,10	
max: EIRP		17,02		max: EIRP		14,50	
Margin to Limit		· · · · · · · · · · · · · · · · · · ·		Margin to Limit			
EIRP:		18,98		EIRP:		21,50	
\/		2000					
Verdict:		pass		Verdict:		pass	
veraict:		pass		Verdict:		pass	
Operational bands:		n-mode		Operational bands:		n-mode	
	1		11		3	· ·	9
Operational bands: Channel no.:	1	n-mode	11	Operational bands: Channel no.:	3	n-mode	9
Operational bands: Channel no.:		n-mode 6		Operational bands: Channel no.:		n-mode 6	
Operational bands: Channel no.:	1 8,36 8,26	n-mode	8,37 8,00	Operational bands: Channel no.:	3 8,18 8,16	n-mode	9 8,52 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2	8,36 8,26 8,35	n-mode 6 7,79 7,89 7,93	8,37 8,00 8,14	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2	8,18 8,16 8,06	n-mode 6 8,61 8,58 8,54	8,52 8,50 8,53
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3	8,36 8,26 8,35 8,37	n-mode 6 7,79 7,89 7,93 7,85	8,37 8,00 8,14 8,14	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3	8,18 8,16 8,06 8,07	n-mode 6 8,61 8,58 8,54 8,54	8,52 8,50 <mark>8,53</mark> 8,47
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4	8,36 8,26 8,35 8,37 8,30	n-mode 6 7,79 7,89 7,93 7,85 7,91	8,37 8,00 8,14 8,14 8,13	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4	8,18 8,16 8,06 8,07 8,02	n-mode 6 8,61 8,58 8,54 8,54 8,47	8,52 8,50 8,53 8,47 8,46
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	8,36 8,26 8,35 8,37 8,30 7,65	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89	8,37 8,00 8,14 8,14 8,13 8,17	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	8,18 8,16 8,06 8,07 8,02 8,08	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52	8,52 8,50 8,53 8,47 8,46 8,44
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89 7,88	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS5	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	8,36 8,26 8,35 8,37 8,30 7,65	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89	8,37 8,00 8,14 8,14 8,13 8,17	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5	8,18 8,16 8,06 8,07 8,02 8,08	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52	8,52 8,50 8,53 8,47 8,46 8,44
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89 7,88 7,90	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS6	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands:	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89 7,88 7,90	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands:	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89 7,88 7,90 n-mode	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89 7,88 7,90 n-mode	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm]	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,93 7,85 7,91 7,89 7,88 7,90 n-mode	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm]	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,93 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations:	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,93 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations:	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,93 7,85 7,91 7,89 7,88 7,90 n-mode 30,00	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations:	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00 Limit Check: 8,37	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations:	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00 Limit Check: 8,61	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power:	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00 Limit Check: 8,37 21,63 6,10	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power:	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00 Limit Check: 8,61 21,39 6,10	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power: Declared antenna Gain max: EIRP	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00 Limit Check: 8,37	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power: Declared antenna Gain max: EIRP	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00 Limit Check: 8,61	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power: Declared antenna Gain max: EIRP Margin to Limit	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,85 7,91 7,89 7,88 7,90 n-mode 30,00 Limit Check: 8,37 21,63 6,10	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power: Declared antenna Gain max: EIRP Margin to Limit	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00 Limit Check: 8,61 21,39 6,10	8,52 8,50 8,53 8,47 8,46 8,44 8,50
Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power: Declared antenna Gain max: EIRP	8,36 8,26 8,35 8,37 8,30 7,65 7,93	n-mode 6 7,79 7,89 7,89 7,85 7,91 7,88 7,90 n-mode 30,00 Limit Check: 8,37 21,63 6,10 14,47	8,37 8,00 8,14 8,14 8,13 8,17 8,16	Operational bands: Channel no.: n-mode MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 Operational bands: FCC&IC-Limits output power [dBm] FCC&IC-Limits EIRP [dBm] Limit Check: Highest conducted power value over channels and modulations: Margin to Limit output power: Declared antenna Gain max: EIRP	8,18 8,16 8,06 8,07 8,02 8,08 8,43	n-mode 6 8,61 8,58 8,54 8,54 8,47 8,52 8,40 8,45 n-mode 30,00 Limit Check: 8,61 21,39 6,10 14,71	8,52 8,50 8,53 8,47 8,46 8,44 8,50



1.4. RF-Parameter – Power spectral density 1.4.1. PSD b-mode

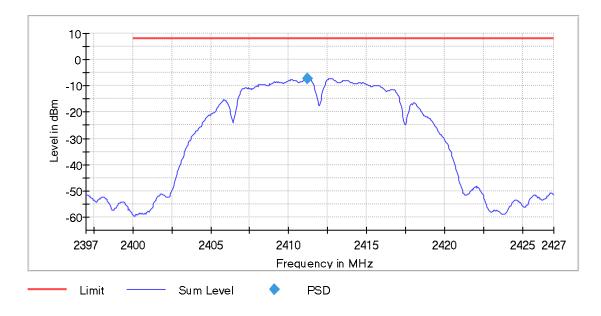
Power Spectral Density (2412 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.175000	-7.030	8.0	PASS





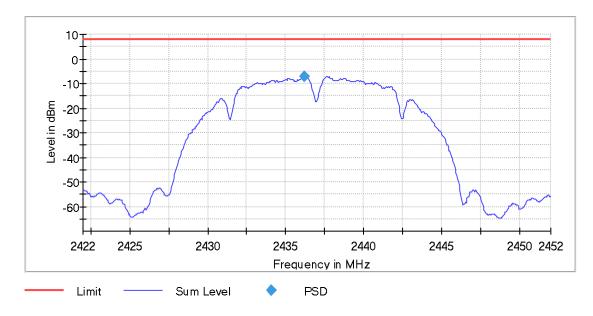
Power Spectral Density (2437 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2436.175000	-7.241	8.0	PASS





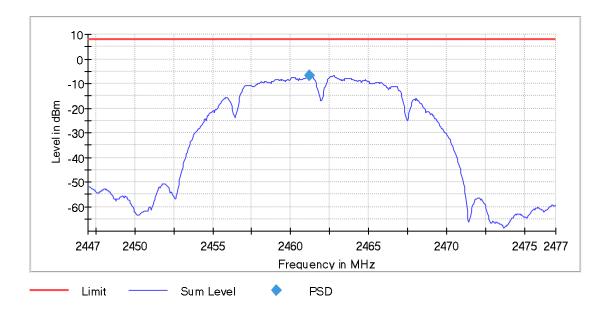
Power Spectral Density (2462 MHz; b-mode [01Mbps] (14 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.225000	-6.837	8.0	PASS





1.4.2. PSD g-mode

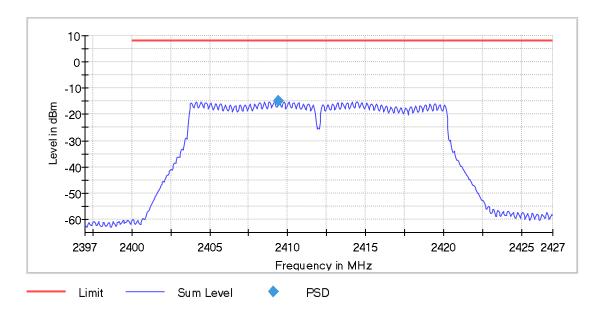
Power Spectral Density (2412 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2409.425000	-15.018	8.0	PASS





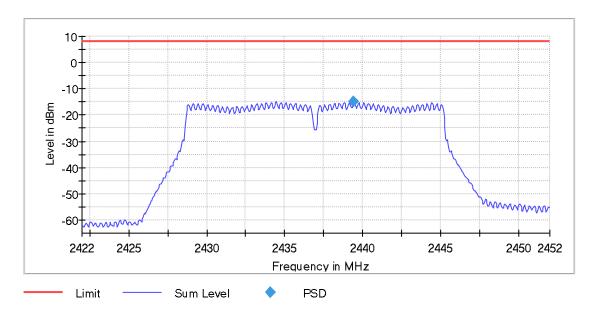
Power Spectral Density (2437 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2439.425000	-14.858	8.0	PASS





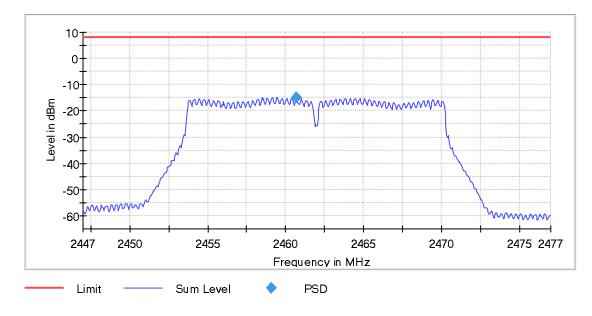
Power Spectral Density (2462 MHz; g-mode [12Mbps] (11 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2460.675000	-14.922	8.0	PASS





1.4.3. PSD n20-mode

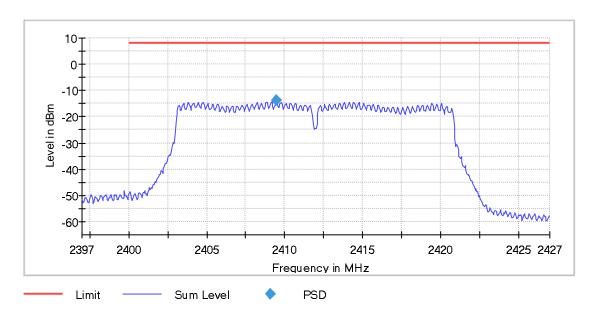
Power Spectral Density (2412 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2409.475000	-13.826	8.0	PASS





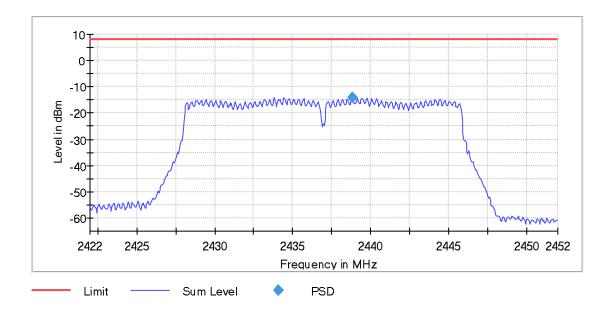
Power Spectral Density (2437 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2438.825000	-14.061	8.0	PASS





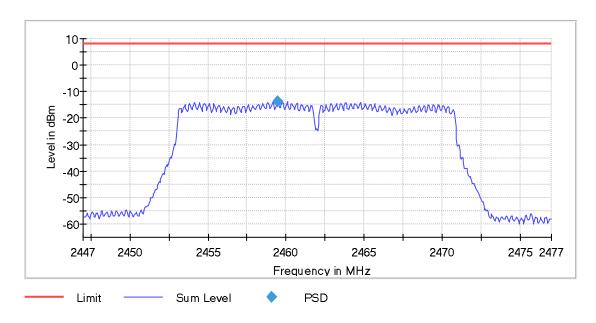
Power Spectral Density (2462 MHz; n-mode [MCS0] (11 dBm); 20 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2459.475000	-13.854	8.0	PASS





1.4.4. PSD n40-mode

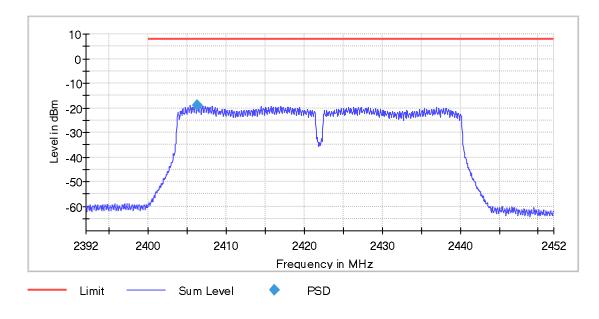
Power Spectral Density (2422 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2422.000000	2406.325000	-18.963	8.0	PASS



PSD Connector 1



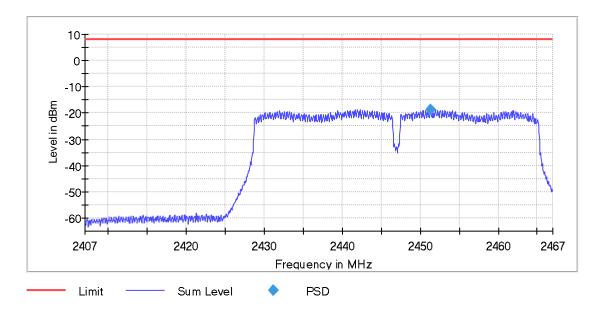
Power Spectral Density (2437 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2451.325000	-18.609	8.0	PASS



PSD Connector 1



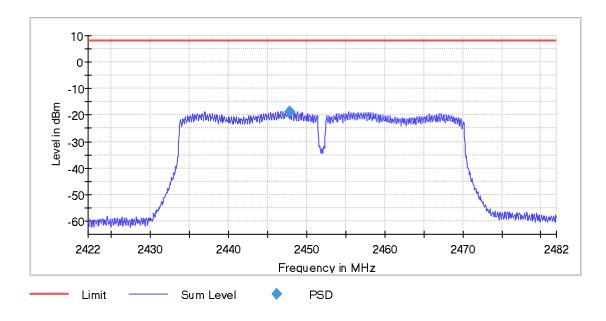
Power Spectral Density (2452 MHz; n40-mode [MCS0] (11 dBm); 40 MHz)

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

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1,3 dB

Result

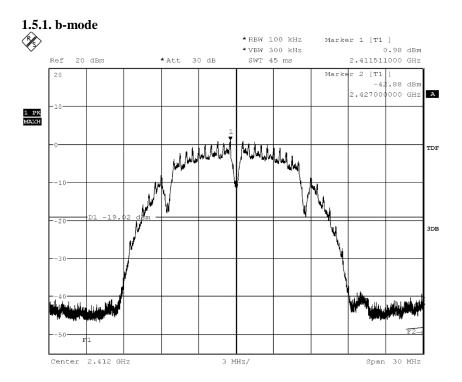
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2452.000000	2447.875000	-18.599	8.0	PASS



PSD Connector 1

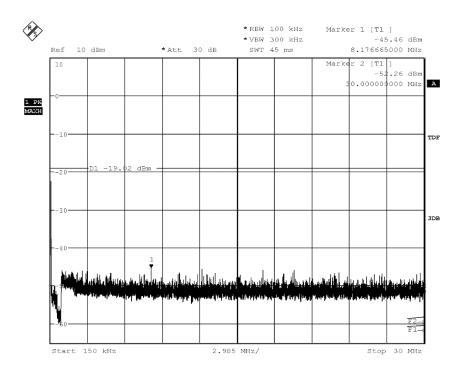


1.5. RF-Parameter - Out-of-Band 20dBc Conducted Emissions



Date: 11.DEC.2018 09:52:25

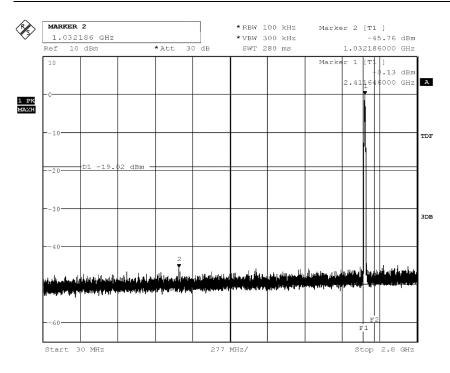
$20dBc_REF_2412_bmode_1Mbit$



Date: 11.DEC.2018 09:54:00

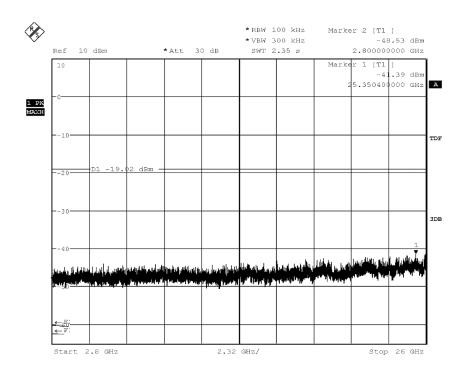
$20dBc_0.15MHz-30MHz_REF_2412_1Mbit$





Date: 11.DEC.2018 09:54:49

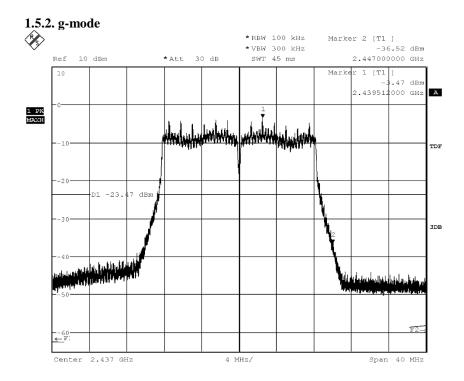
$20dBc_0.30MHz\hbox{-}2.8Ghz_2412_1Mbit$



Date: 11.DEC.2018 09:56:58

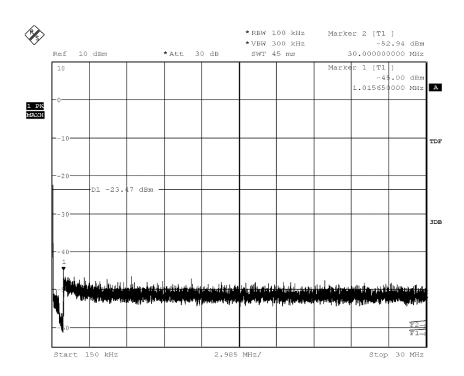
20dBc_2.8GHz-26Ghz_2412_1Mbit





Date: 11.DEC.2018 09:58:51

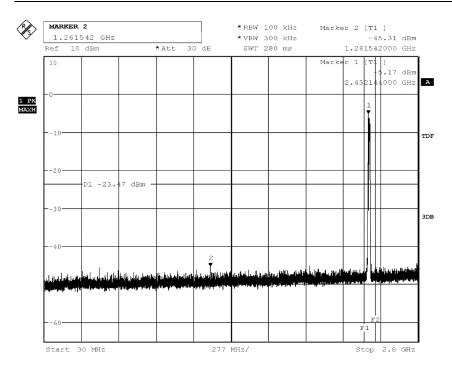
20dBc_REF_2437_gmode_12Mbit



Date: 11.DEC.2018 09:59:48

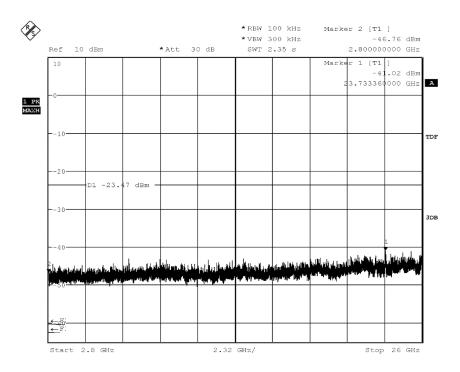
20dBc_0.15MHz-30MHz_gmode_12Mbit





Date: 11.DEC.2018 10:00:35

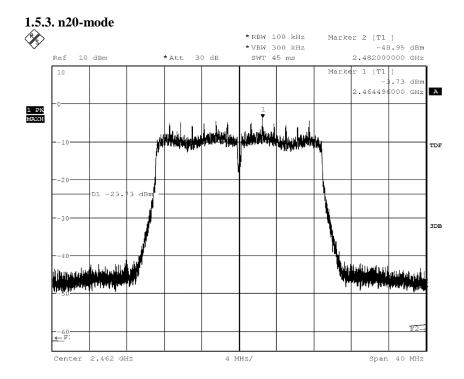
$20dBc_0.30MHz\text{-}2.8Ghz_gmode_12Mbit$



Date: 11.DEC.2018 10:01:13

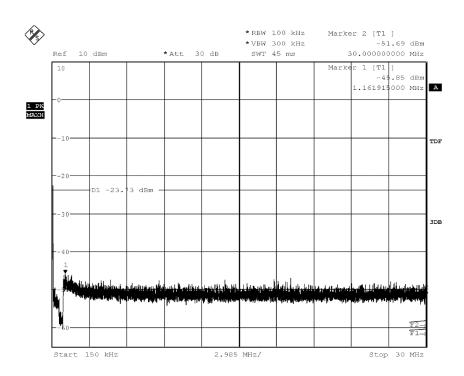
 $20dBc_2.8GHz-26Ghz_gmode_12Mbit$





Date: 11.DEC.2018 10:02:39

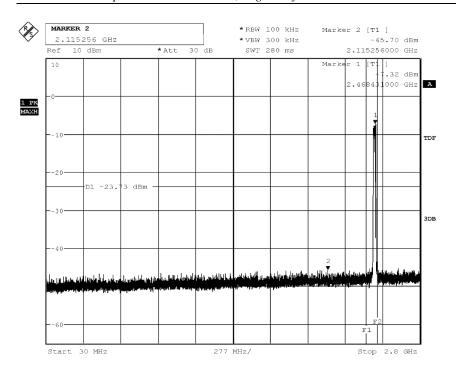
$20dBc_REF_2462_nmode_MCS0$



Date: 11.DEC.2018 10:03:24

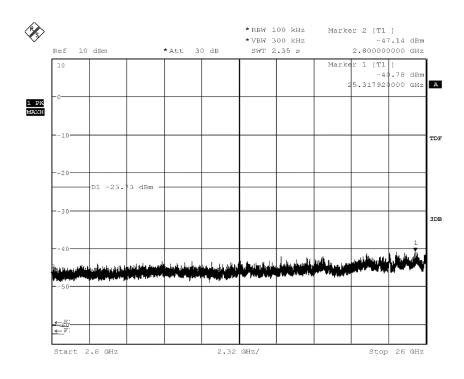
20dBc_0.15MHz-30MHz_2462_nmode_MCS0





Date: 11.DEC.2018 10:04:14

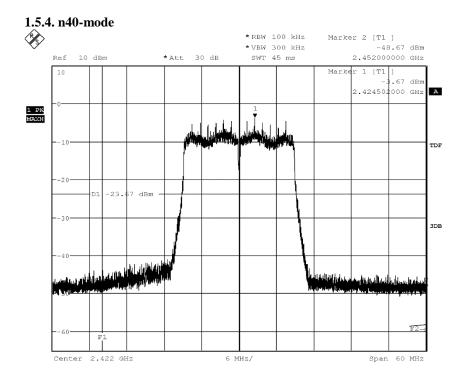
$20dBc_0.30MHz-2.8Ghz_2462_nmode_MCS0$



Date: 11.DEC.2018 10:05:24

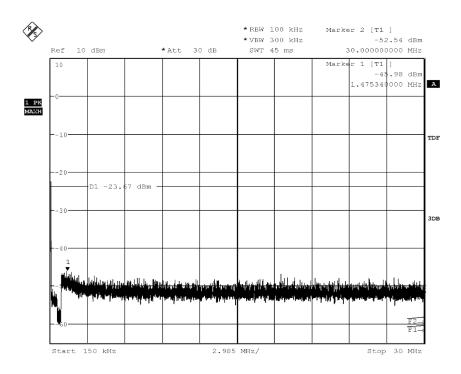
 $20dBc_2.8GHz-26Ghz_2462_nmode_MCS0$





Date: 11.DEC.2018 10:06:22

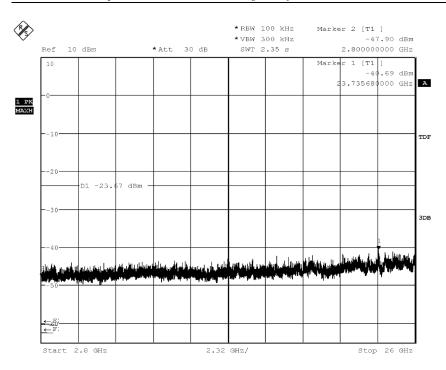
$20dBc_REF_2422_nmode_HT40_MCS0$



Date: 11.DEC.2018 10:07:15

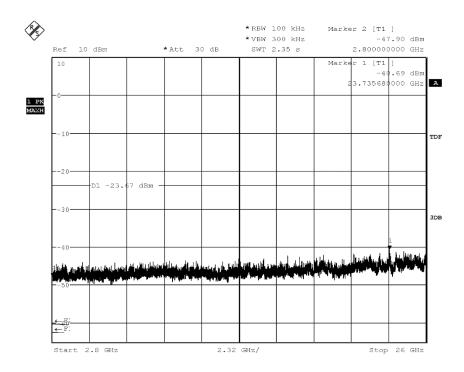
$20dBc_0.15MHz-30MHz_2422_nmode_HT40_MCS0$





Date: 11.DEC.2018 10:08:12

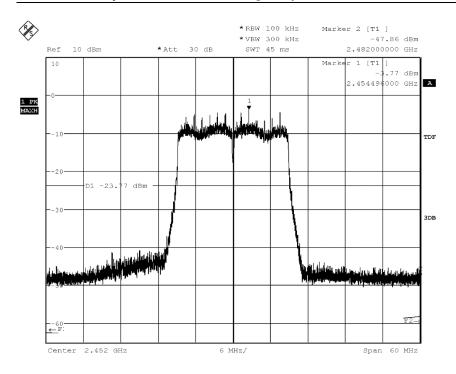
$20dBc_0.30MHz-2.8Ghz_2422_nmode_HT40_MCS0$



Date: 11.DEC.2018 10:08:12

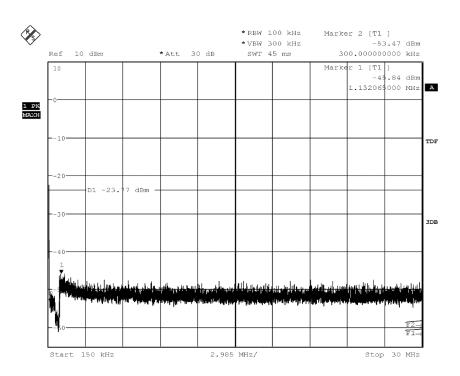
 $20dBc_2.8GHz-26Ghz_2422_nmode_HT40_MCS0$





Date: 11.DEC.2018 10:09:13

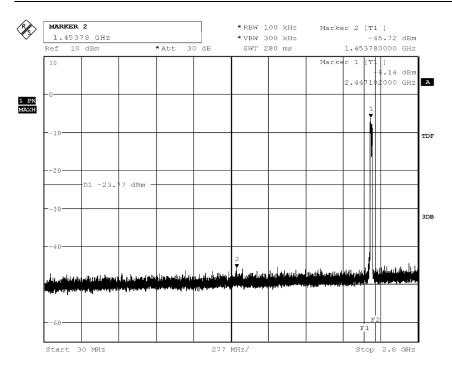
$20dBc_REF_2452_nmode_HT40_MCS0$



Date: 11.DEC.2018 10:09:52

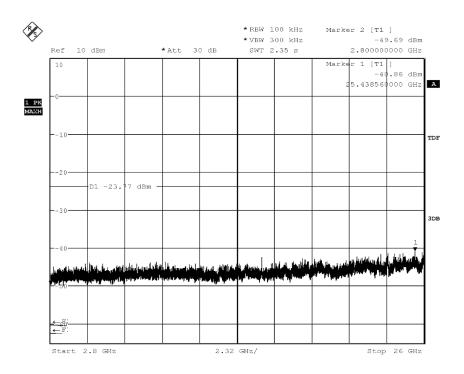
20dBc_0.15MHz-30MHz_2452_nmode_HT40_MCS0





Date: 11.DEC.2018 10:10:27

$20dBc_0.30MHz-2.8Ghz_2452_nmode_HT40_MCS0$



Date: 11.DEC.2018 10:10:53

 $20dBc_2.8GHz-26Ghz_2452_nmode_HT40_MCS0$



1.6. General Limit - Radiated field strength emissions below 30 MHz

2.01a_laying_b-mode_ch01

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: EMC.V9.25.00

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: RIs

Operating conditions: Humidity: 48%rH; Temperature: 20°C Operatingmode: b-mode | 1Mbit| ch01_Laying

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV20

Type: Navigations- und Multimediagerät

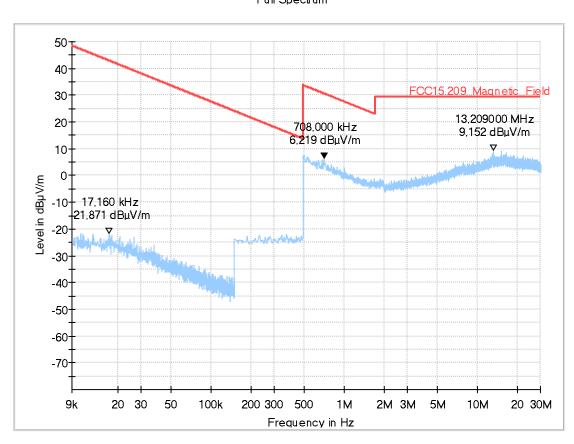
EUT: FCC/ S05
HW version: 001
SW version: 283C37820R

SVN: Config:

Serial number: 0005111

Connected Interfaces:

Power Supply: 13.5VDC Comments: -





2.01b_standing_b-mode_ch01

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: EMC.V9.25.00

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: RIs

Operating conditions: Humidity: 48%rH; Temperature: 20°C Operatingmode: b-mode | 1Mbit| ch01_standing

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV2

Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

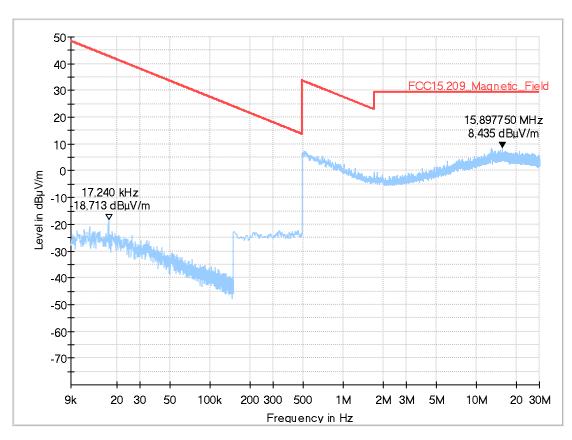
SW version: 283C37820R

SVN:

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC

Comments: -





2.02a_laying_g-mode_ch06

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: EMC.V9.25.00

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: RIs

Operating conditions: Humidity: 48%rH; Temperature: 20°C Operatingmode: g-mode | 12Mbit| ch06:Laying

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV20

Type: Navigations- und Multimediagerät

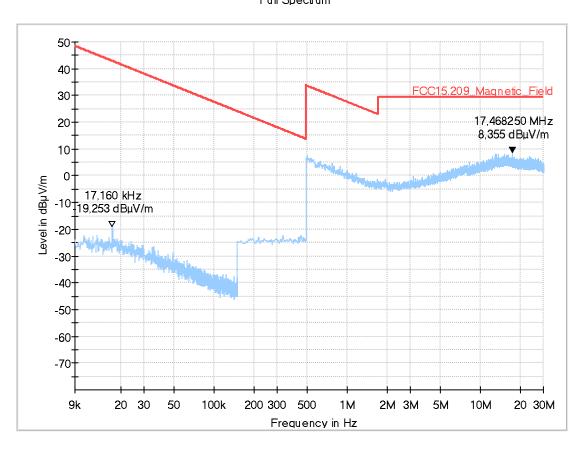
EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN:

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -





2.02b_standing_g-mode_ch06

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: EMC.V9.25.00

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: RIs

Operating conditions: Humidity: 48%rH; Temperature: 20°C Operatingmode: g-mode | 12Mbit| ch06:Standing

EUT Information

Model:

Manufacturer:Robert Bosch Car Multimedia GmbH

AIVIV2

Type: Navigations- und Multimediagerät

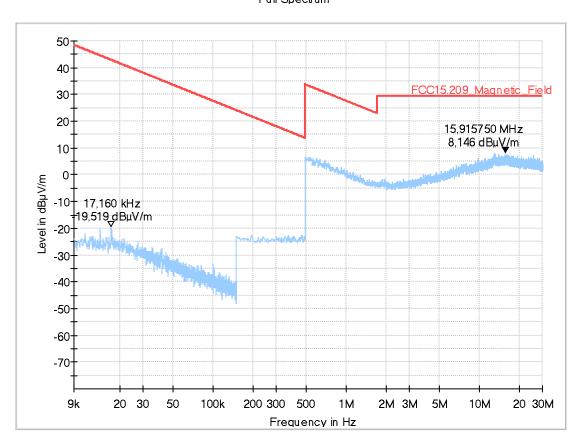
EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN:

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -





2.03a_laying_n-mode_ch11

Date: 05.11.2018 Page 1 of 2

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: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C Operatingmode: WLAN 2,4 GHz, n-mode, MCS0, ch 11, laying

EUT Information

Model:

Manufacturer: Robert Bosch Car Multimedia GmbH

AIVIV20

Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

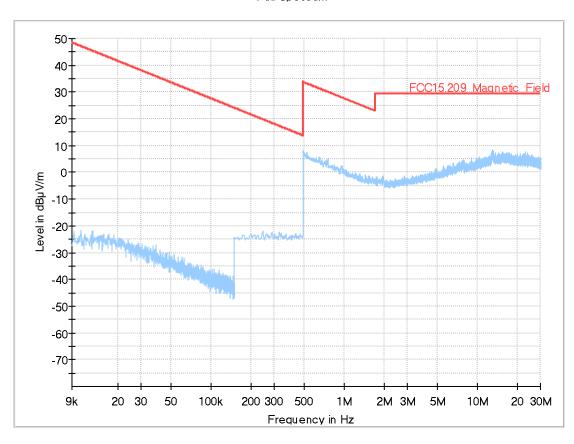
SW version: 283C37820R

SVN:

Config: Serial number: 0005111

Connected Interfaces: Power Supply: 13.5VDC

Comments: -





2.03b_standing_n-mode_ch11

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: EMC.V9.25.00

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

FCC 15.205 § 15.209; RSS-Gen: Issue 4 Test specification:

Operator: RIs

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Operatingmode: WLAN 2,4 GHz, n-mode, MCS0, ch 11, standing

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH Model:

Type: Navigations- und Multimediagerät

EUT: FCC/S05 HW version: 001

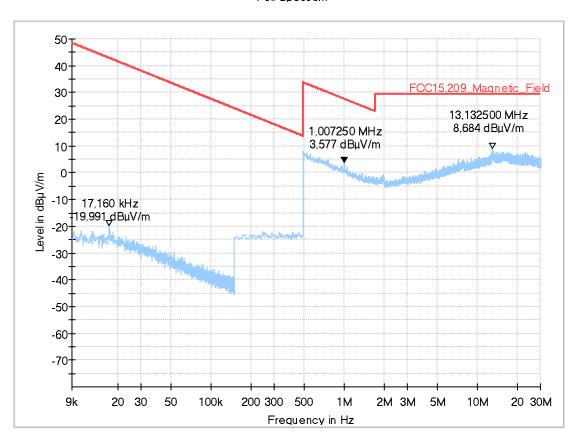
SW version: 283C37820R

SVN: Config:

Serial number: 0005111

Connected Interfaces: Power Supply: 13.5VDC

Comments:





2.04a_laying_n40-mode_ch11

Date: 05.11.2018 Page 1 of 2

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: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Operatingmode: WLAN 2,4 GHz, n-mode, BW 40 MHz, MCS0, ch 11, laying

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model: AIVIV20

Type: Navigations- und Multimediagerät

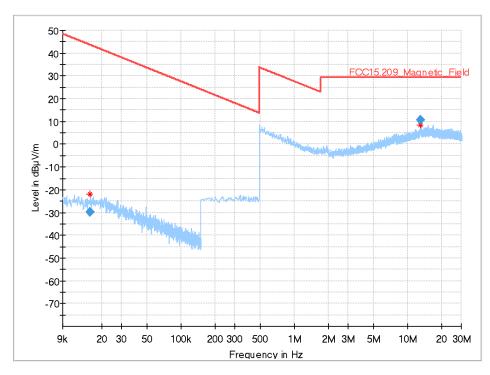
EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN: Config:

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

Full Spectrum



	Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Pol	Azimut h (deg)	Corr. (dB)
	0.015620	-29.79	43.72	73.51	1000.0	0.200	Η	300.0	-64.5
ſ	13.137750	10.49	29.54	19.05	1000.0	9.000	Н	300.0	-12.0



2.04b_standing_n40-mode_ch11

Date: 05.11.2018 Page 1 of 2

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: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Operatingmode: WLAN 2,4 GHz, n-mode, BW 40 MHz, MCS0, ch 11, standing

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model: AIVIV20

Type: Navigations- und Multimediagerät

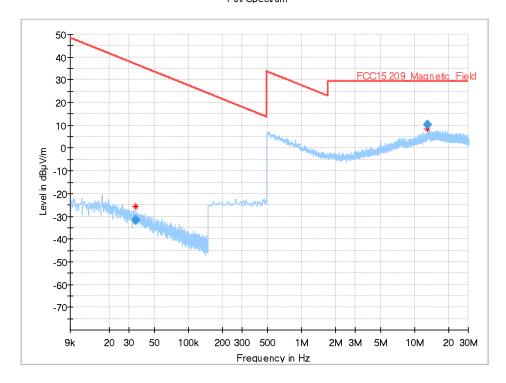
EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN:

Config: Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

Full Spectrum



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Pol	Azimut h (deg)	Corr. (dB)
0.034380	-31.53	36.87	68.40	1000.0	0.200	V	165.0	-66.6
13.088000	10.47	29.54	19.07	1000.0	9.000	V	255.0	-12.0



1.7. General Limit - Radiated field strength emissions, 30 MHz - 1 GHz 3.01a_laying_b-mode_ch01

05.11.2018 Page 1 of 2

Electric Field Strength Measurement Test description:

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

FCC 15.209; RSS-Gen: Issue 3 Test specification.:

Operatingmode: b-mode, 1 Mbit, laying

Operator:

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: laying_TX

EUT Information

Model:

Manufacturer:Robert Bosch Car Multimedia GmbH

Navigations- und Multimediagerät Type:

EUT: FCC/S05 HW version: 001 283C37820R

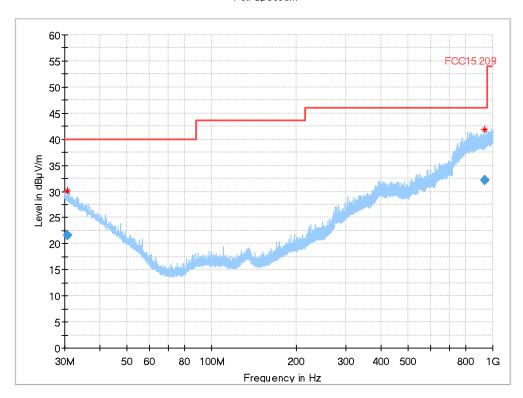
SW version:

SVN: Config:

Serial number: 0005111 Connected Interfaces: 13.5VDC Power Supply:

Comments:

Full Spectrum



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
30.740000	21.62	40.00	18.38	1000.0	120.000	355.0	Н	275.0	21.2
936.408000	32.19	46.00	13.81	1000.0	120.000	293.0	V	177.0	26.9



3.01b_standing_b-mode_ch01

05.11.2018 Page 1 of 2

Electric Field Strength Measurement Test description:

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0 not used Distance correction: Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

FCC 15.209; RSS-Gen: Issue 3 Test specification.:

Operatingmode: b-mode, 1 Mbit, standing

Operator:

Humidity: 48%rH; Temperature: 20°C Operating conditions:

Comment 1: standing_TX

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model:

Type: Navigations- und Multimediagerät

EUT: FCC/S05 HW version: 001

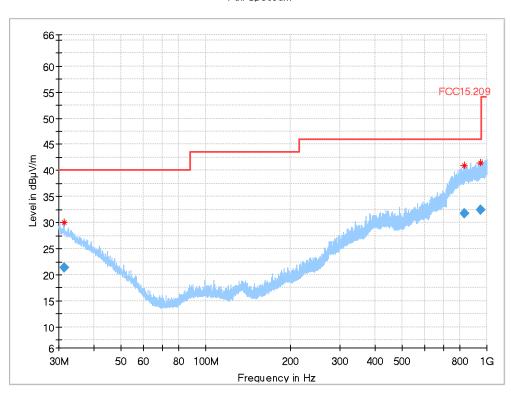
SW version: 283C37820R

SVN: Config:

0005111 Serial number: Connected Interfaces: 13.5VDC

Power Supply: Comments:

Full Spectrum



	Frequency	QuasiPea	Limit	Margi	Meas.	Bandwidt	Heigh	Pol	Azimut	Corr		
	(MHz)	k	(dBµV/m	n	Time	h	t		h			
		(dBµV/m))	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)		
Ī	31.324000	21.31	40.00	18.69	1000.0	120.000	222.0	V	283.0	20.9		
	833.896000	31.69	46.00	14.31	1000.0	120.000	304.0	V	239.0	25.7		
	949.124000	32.49	46.00	13.51	1000.0	120.000	360.0	V	201.0	27.2		



3.02a_laying_g-mode_ch06

05.11.2018 Page 1 of 2

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic 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

Operatingmode: g-mode, 12 Mbit, laying

Operator: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: laying_TX

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV2

Type: Navigations- und Multimediagerät

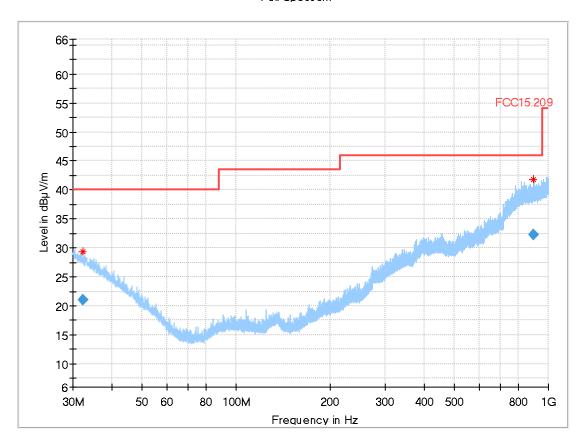
EUT: FCC/ S05
HW version: 001
SW version: 283C37820R

SVN: -

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

Full Spectrum



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
32.192000	20.98	40.00	19.02	1000.0	120.000	142.0	Н	264.0	20.5
897.960000	32.33	46.00	13.67	1000.0	120.000	105.0	٧	114.0	26.9



3.02b_standing_g-mode_ch06

05.11.2018 Page 1 of 2

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic 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 Operatingmode: g-mode, 12 Mbit, standing

Operator: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: standing_TX

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model: AIVIV2

Type: Navigations- und Multimediagerät

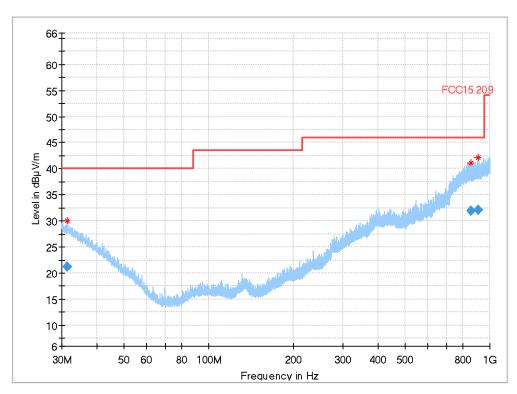
EUT: FCC/ S05
HW version: 001
SW version: 283C37820R

SVN: -

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

Full Spectrum



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
31.440000	21.28	40.00	18.72	1000.0	120.000	159.0	V	296.0	20.9
853.856000	31.85	46.00	14.15	1000.0	120.000	187.0	Н	248.0	26.0
911.736000	32.03	46.00	13.97	1000.0	120.000	322.0	Н	226.0	26.7



3.03a_laying_n-mode_ch11

05.11.2018 Page 1 of 2

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic 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

Operatingmode: n-mode, MCS0, laying

Operator: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: laying_TX

EUT Information

Model:

Manufacturer:Robert Bosch Car Multimedia GmbH

AI\/I\/20

Type: Navigations- und Multimediagerät

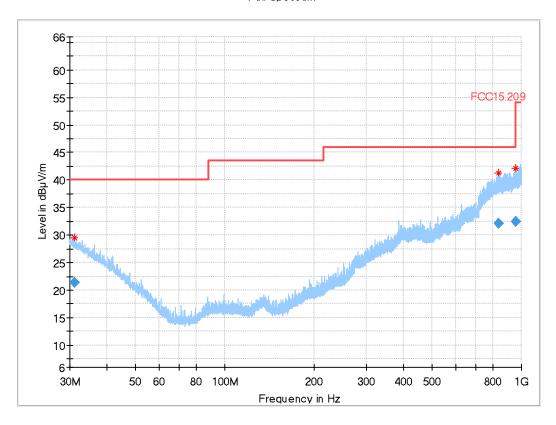
EUT: FCC/ \$05 HW version: 001 \$W version: 283C37820R

SVN:

SVN: Config:

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

Full Spectrum



•	iiiai_itesait									
	Frequency (MHz)	QuasiPea k (dBuV/m)	Limit (dBµV/m	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
		(ασμν/ιιι)	,	(ub)	(1115)	(KIIZ)	(CIII)		(ueg)	(ub)
	31.140000	21.39	40.00	18.61	1000.0	120.000	360.0	٧	10.0	21.0
	839.244000	32.04	46.00	13.96	1000.0	120.000	299.0	V	8.0	26.0
	959.708000	32.39	46.00	13.61	1000.0	120.000	270.0	Н	0.0	27.1



3.03b_standing_n-mode_ch11

05.11.2018 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 Operatingmode: n-mode, MCS0, standing

Operator: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: standing_TX

EUT Information

Model:

Manufacturer:Robert Bosch Car Multimedia GmbH

AIVIV20

Type: Navigations- und Multimediagerät

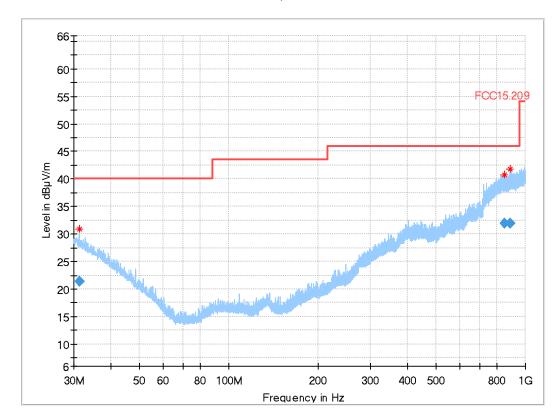
EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN:

Config: Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

Full Spectrum



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
31.312000	21.39	40.00	18.61	1000.0	120.000	271.0	V	277.0	20.9
851.452000	32.01	46.00	13.99	1000.0	120.000	144.0	V	280.0	26.1
887.116000	31.93	46.00	14.07	1000.0	120.000	368.0	Н	86.0	26.4



3.04a_laying_n40-mode_ch06

05.11.2018 Page 1 of 2

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic 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 Operatingmode: n-mode40, MCS0, laying

Operator: TFra

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: laying_TX

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model: AIVIV2

Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

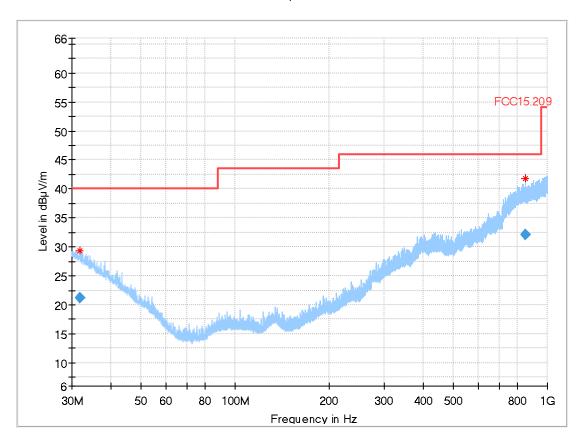
SW version: 283C37820R

SVN:

Config: Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC

Comments: -

Full Spectrum



Frequency (MHz)	QuasiPea k	Limit (dBµV/m	Margi n	Meas. Time	Bandwidt h	Heigh t	Pol	Azimut h	Corr
` '		•							
	(dBµV/m))	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)



851.056000 32.07 46.00	13.93 1000.0 120.000		26.1
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3.04b_n40-mode_ch06

05.11.2018 Page 1 of 2

Test description: Electric Field Strength Measurement

Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance Test site and distance:

Version of Testsoftware: EMC32 V9.25.0 Distance correction: not used Used filter: not used

please see page 2 for detailed data of measurement setup Technical Data:

Test specification.: FCC 15.209; RSS-Gen: Issue 3 Operatingmode: n-mode40, MCS0, standing

Operator:

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: standing_TX

EUT Information

Model:

Manufacturer: Robert Bosch Car Multimedia GmbH

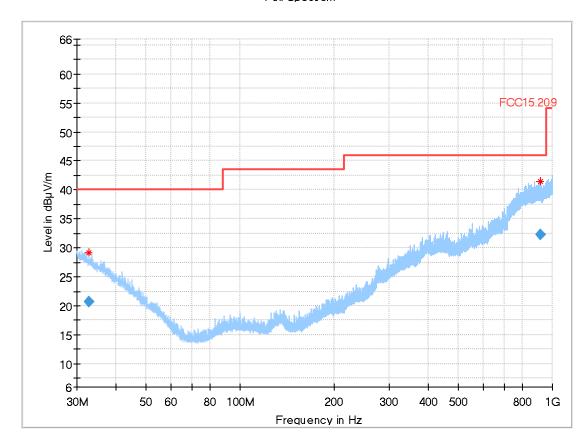
Navigations- und Multimediagerät Type:

EUT: FCC/S05 HW version: 001 SW version: 283C37820R

SVN: Config:

Serial number: 0005111 Connected Interfaces: Power Supply: 13.5VDC Comments:

Full Spectrum



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)	
32.876000	20.71	40.00	19.29	1000.0	120.000	197.0	V	249.0	20.2	



913.332000 32.20 46.00 13.80 1000.0 120.000 206.0 V 37.0	913.332000	32.20	46.00	13.80	1000.0	120.000	206.0	V	37.0	26.8
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3.05a_laying_n40-mode_ch03

12.11.2018 Page 1 of 1

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic 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
Operatingmode: n40-mode | MCS0 | ch03 | laying

Operator: LK

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: laying

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV20

Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

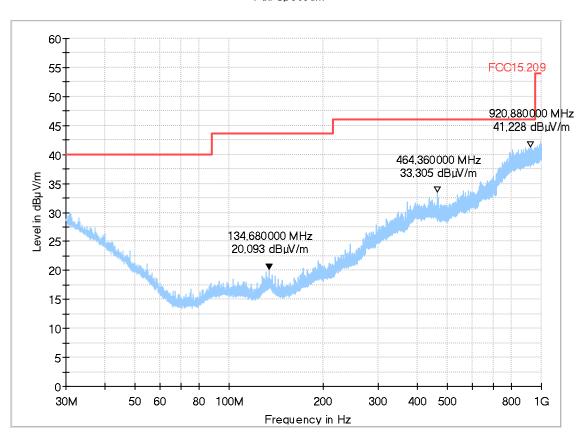
SVN: Config:

Serial number: 0005111

Connected Interfaces: - 0005111

Power Supply: 13.5VDC

Comments: -







3.05b_n40-mode_ch03

12.11.2018 Page 1 of 1

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Änechoic 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
Operatingmode: n40-mode | MCS0 | ch03 | standing

Operator: LKu

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: standing

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV2

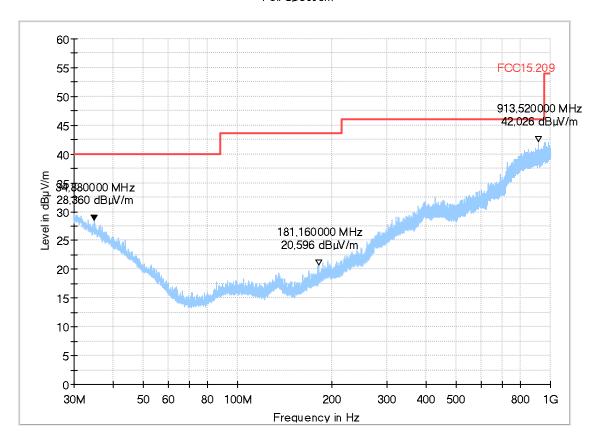
Type: Navigations- und Multimediagerät

EUT: FCC/ \$05 HW version: 001 SW version: 283C37820R

SVN: -

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -





3.06a_laying_n40-mode_ch09

12.11.2018 Page 1 of 1

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
Operatingmode: n40-mode | MCS0 | ch09 | laying

Operator: LKu

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: laying

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model: AIVIV2

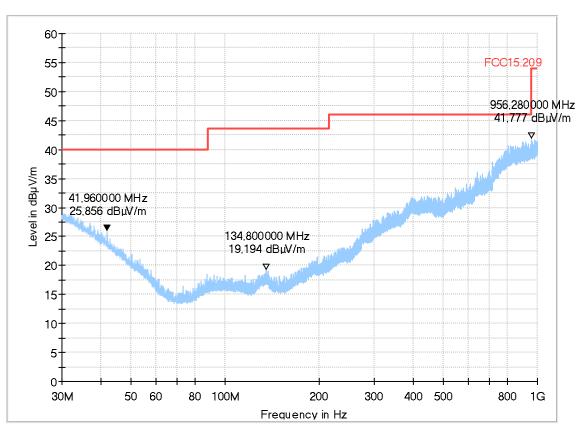
Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN: Config:

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -





3.06b_standing_n40-mode_ch09

12.11.2018 Page 1 of 1

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic 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
Operatingmode: n40-mode | MCS0 | ch09 | standing
Operator: LKu

Operating conditions: Humidity: 48%rH; Temperature: 20°C

Comment 1: standing

EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH

Model: AIVIV2

Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

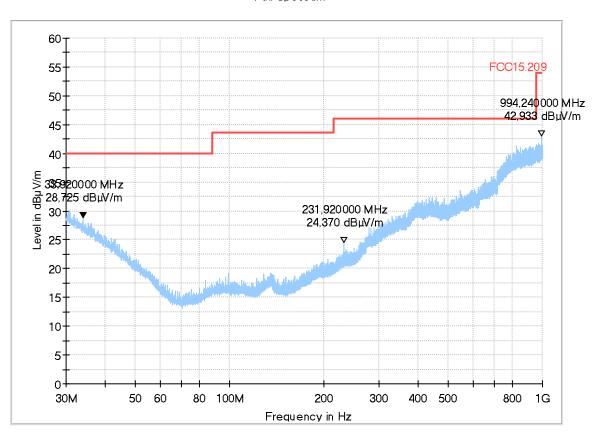
SW version: 283C37820R

SVN: - Config: -

Serial number: 0005111 Connected Interfaces: -

Power Supply: 13.5VDC

Comments:





1.8. General Limit - Radiated emissions, above 1 GHz

8.01a_b-mode_ch01

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

Environment Condition: Humidity: 40%rH; Temperature: 20°C

Operation mode: TX_b-mode | 1Mbit| ch01

Operator Name:

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV20

Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

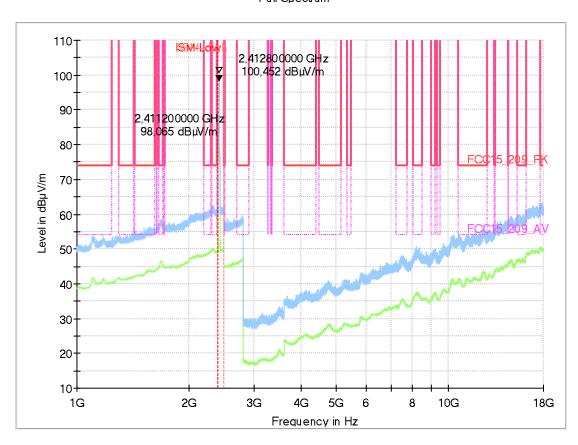
SW version: 283C37820R

SVN:

Config: Serial number: 0005111

Connected Interfaces: -

Power Supply: 13.5VDC Comments: -





8.02a_g-mode_ch06

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

Environment Condition: Humidity: 40%rH; Temperature: 20°C

Operation mode: TX_g-mode | 12Mbit| ch06

Operator Name: HE

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV2

Type: Navigations- und Multimediagerät

EUT: FCC/ S05
HW version: 001
SW version: 283C37820R

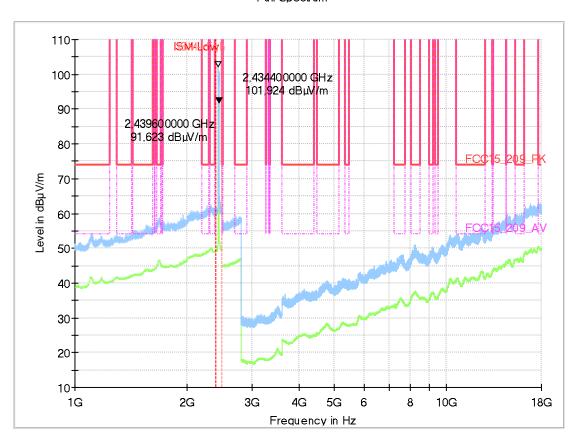
SVN: -

Config: Serial number: 0005111

Connected Interfaces:

Power Supply: 13.5VDC

Comments: -





8.03a_n-mode_ch11

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

Environment Condition: Humidity: 40%rH; Temperature: 20°C

Operation mode: n-mode | MCS0| ch11

Operator Name: SLo

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV20

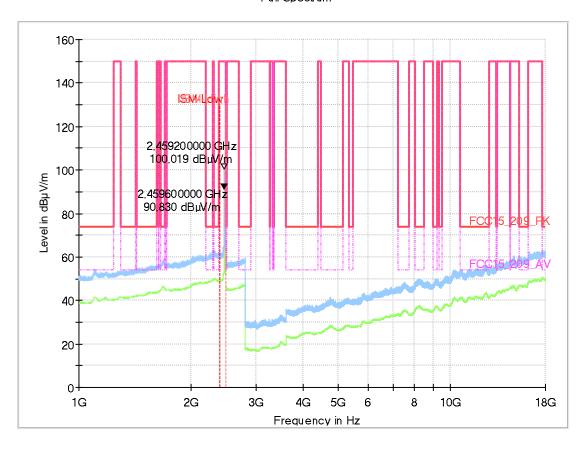
Type: Navigations- und Multimediagerät

EUT: FCC/ S05
HW version: 001
SW version: 283C37820R

SVN: -

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -





8.04a_n40-mode_ch03

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

Enviroment Condition: Humidity: 40%rH; Temperature: 20°C

Operation mode: n40-mode | MCS0 | ch03

Operator Name: SLo

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV2

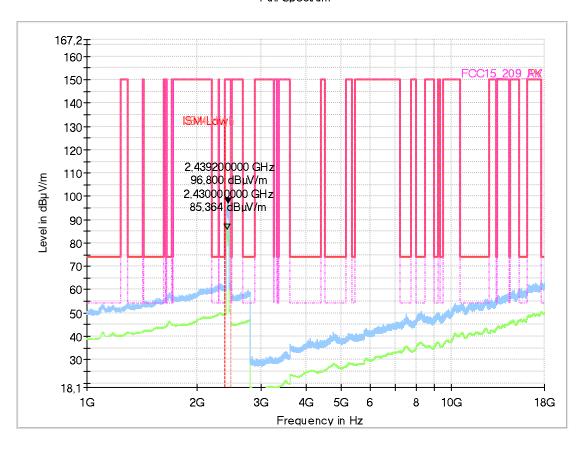
Type: Navigations- und Multimediagerät

EUT: FCC/ S05 HW version: 001

SW version: 283C37820R

SVN: - Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -





8.05a_n40-mode_ch09

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

Environment Condition: Humidity: 40%rH; Temperature: 20°C

Operation mode: n40-mode | MCS0 | ch09

Operator Name: SLo

EUT Information

Manufacturer:Robert Bosch Car Multimedia GmbH

Model: AIVIV2

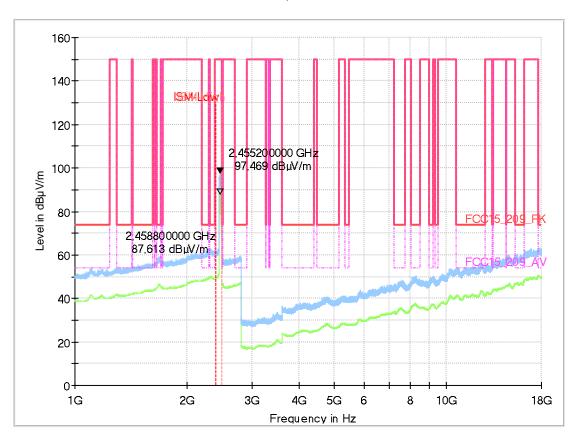
Type: Navigations- und Multimediagerät

EUT: FCC/ S05
HW version: 001
SW version: 283C37820R

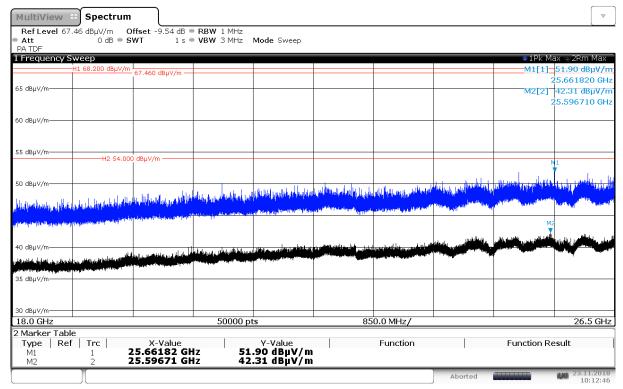
SVN:

Config: -

Serial number: 0005111
Connected Interfaces: Power Supply: 13.5VDC
Comments: -

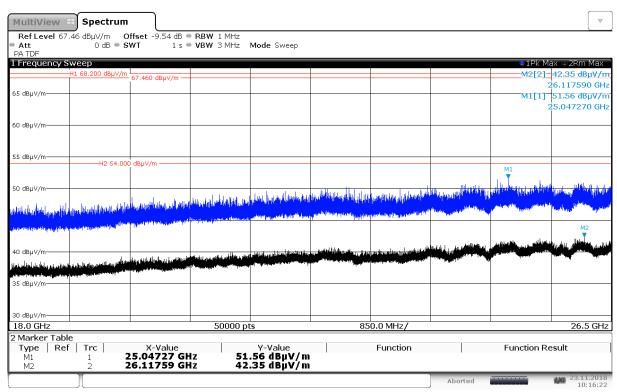






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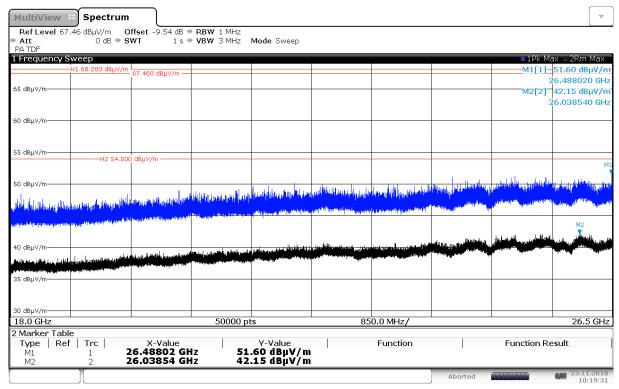
8.01b_b-mode_ch01



10:16:23 23.11.2018

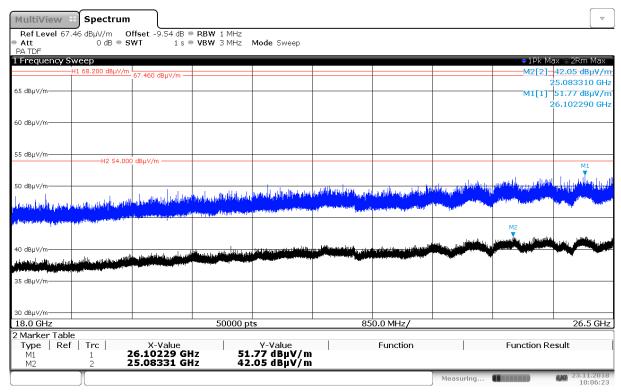
8.02b_g-mode_ch06





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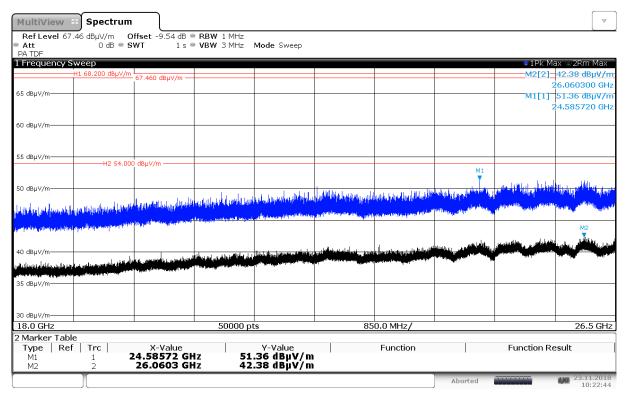
8.03b_n-mode_ch11



10:06:23 23.11.2018

8.04b_n40-mode_ch03



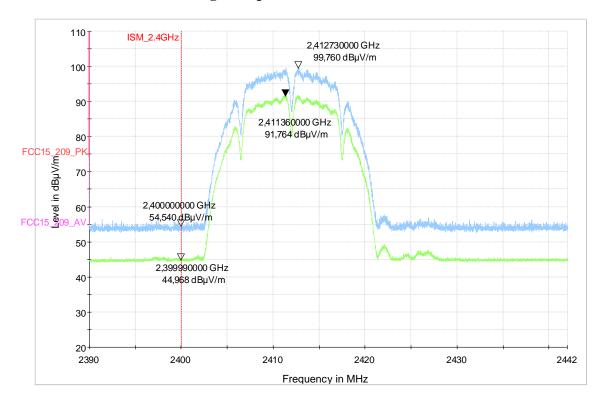


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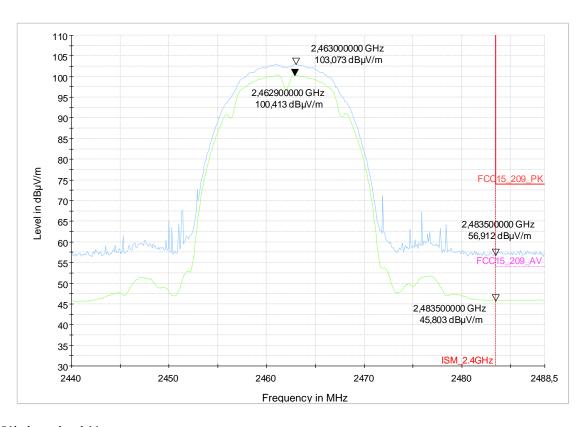
8.05b_n40-mode_ch09



1.9. RF-Parameter - Band Edge compliance measurements

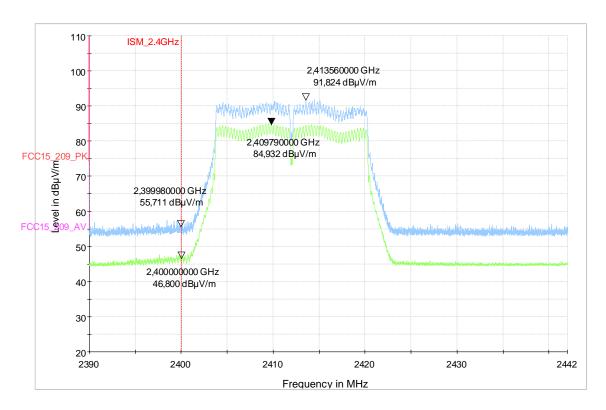


9.01a_b-mode_ch01

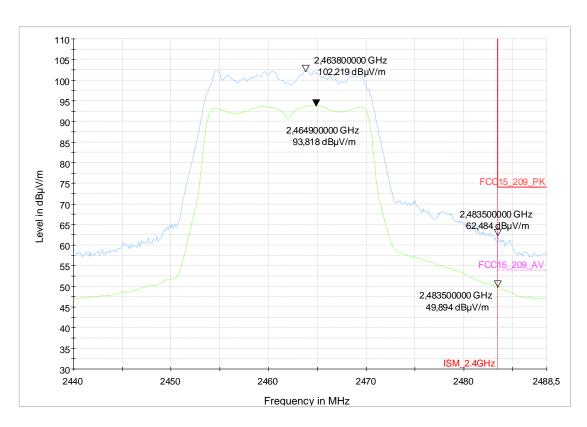


 $9.01b_b-mode_ch11$



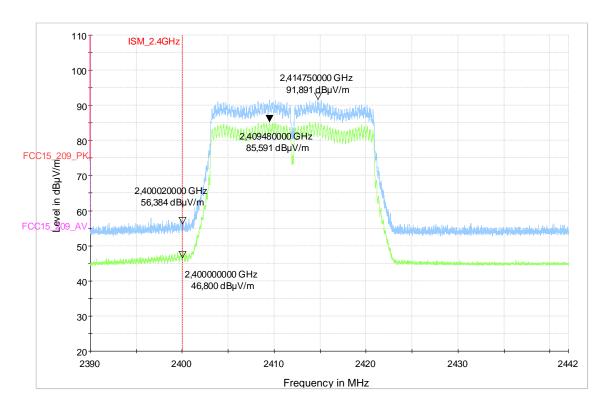


9.02a_g-mode_ch01

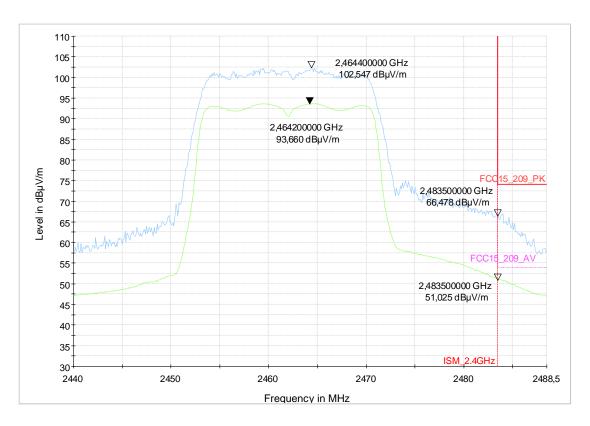


9.02b_g-mode_ch11



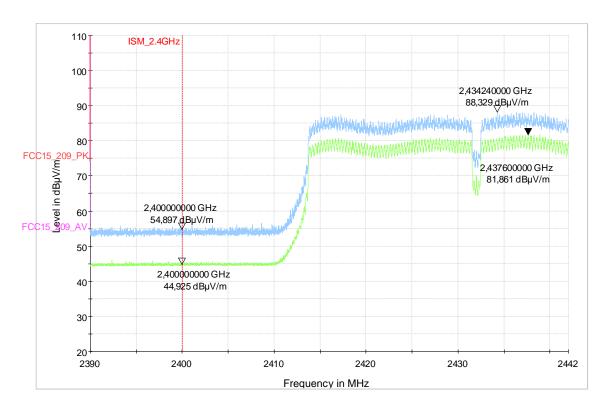


9.03a_n-mode_ch01

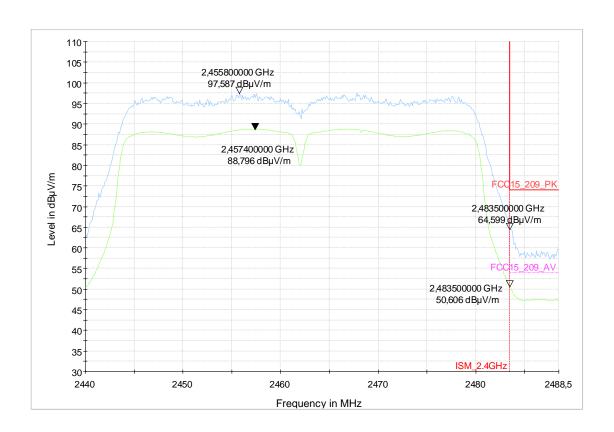


9.03b_n-mode_ch11





9.04a_n40-mode_ch03





9.04b_n40-mode_ch09