

FCC LISTED, REGISTRATION NUMBER: 905266

IC LISTED REGISTRATION NUMBER IC 4621

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TEST REPORT REFERENCE STANDARD:

USA FCC Part 15.247 and 15.109

USA FCC 1 art 15.247 and 15.107				
28679RET.101				
A. Llamas / RF Lab. Manager				
2008-12-19				
Bluetooth module				
Panasonic				
PAN1321				
Prototype				
ENW89811x4CF, FCCID: T7VEBMU, IC: 216Q-EBMU				
Bluetooth EDR 2.9 – 4.1 Vdc supply voltage, 2.5 dBm typ. transmit power				
Bluetooth module with ceramic antenna				
Panasonic Electronic Devices Europe GmbH				
Zeppelinstrasse 19, 21337 Lüneburg, Germany				
DE 811120454				
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Heino.Kaehler@eu.panasonic.com				
Same as applicant				
Same as applicant				



Test method requested	: See Standard		
Standard	 : USA FCC Part 15.247: Operation within the bands 902 - 928 MHz, 2400 2483.5 MHz, and 5725 - 5850 MHz: Section 15.247 Subclause (b). Maximum output power (radiated) and antenna gain. 		
	Section 15.247 Subclause (d). Band-edge emissions compliance (Transmitter).		
	Section 15.247 Subclause (d). Emissions radiated (Transmitter).		
	USA FCC Part 15.109: Receiver radiated emission.		
Test procedure	: PEET034: Medidas radioeléctricas a equipos de radio de espectro ensanchado en la banda de 2,4 GHz.		
Non-standardized test method	: N/A		
Used instrumentation	Radiated Measurements		
	1. Semianechoic Absorber Lined Chamber IR 11. BS.		
	2. Control Chamber IR 12.BC.		
	3. Antenna mast EM 1072 NMT.		
	4. Rotating table EM 1084-4. ON.		
	5. Multi device controller ETS 2090.		
	6. Bilog antenna CHASE CBL6111.		
	7. Antenna tripod EMCO 11968C.		
	8. Double-ridge Guide Horn antenna 1-18 GHz HP 11966E.		
	9. Double-ridge Guide Horn antenna 18-40 GHz Agilent 119665J.		
	10. RF pre-amplifier Miteq JS4-12002600-30-5A.		
	11. RF pre-amplifier Miteq AFS5-04001300-15-10P-6.		
	12. Spectrum analyzer R&S ESIB 26.		
	13. Spectrum analyzer Agilent PSA E4440A.		
	14. RF pre-amplifier Schaffner CPA 9231.		

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Competences and guarantees

AT4 wireless is a laboratory with a measurement facility in compliance with the requirements of Section 2.948 of the FCC rules and has been added to the list of facilities whose measurements data will be accepted in conjuction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 905266.

AT4 wireless is a laboratory with a measurement site in compliance with the requirements of RSS 212, Issue 1 (Provisional) and has been added to the list of filed sites of the Canadian Certification and Engineering Bureau. Reference File Number: IC 4621.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance programme for its measurement equipment.

AT4 wireless guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at AT4 wireless at the time of performance of the test.

AT4 wireless is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

General conditions

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of AT4 wireless.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of AT4 wireless and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the AT4 wireless internal document:

PODT000: Procedimiento para el cálculo de incertidumbres de medida.



Usage of sampl	es			
Samples undergoin	g test have been selected by: th	ne client.		
Sample M/01 is con	mposed of the following eleme	nts:		
<u>Control N°</u>	Description	Model	<u>Serial N°</u>	Date of reception
28679/04	Test board with Bluetooth device with integral antenna	ENW89811x4CF	Prototype	10/11/2008
1. Sample M	01 has undergone following te	st(s).		
Radiated to	ests indicated in appendix A.			
Testing period				
01	started on 2008-11-12 and fini	shed on the same day.		
1	performed at AT4 wireless.	5		



Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	$Min = 22 ^{\circ}C$
	Max. = 24 °C
Relative humidity	Min. = 54 %
	Max. = 55 %
Shielding effectiveness	> 100 dB
Electric insulation	$> 10 \text{ k}\Omega$
Reference resistance to earth	< 0,5 Ω

In the semianechoic chamber (21 meters x 11 meters x 8 meters), the following limits were not exceeded during the test.

Temperature	Min. = 22 °C
*	Max. = 24 °C
Relative humidity	Min. = 54 %
	Max. = 55 %
Air pressure	Min. = 1010 mbar
	Max. $= 1010$ mbar
Shielding effectiveness	> 100 dB
Electric insulation	$> 10 \text{ k}\Omega$
Reference resistance to earth	< 0,5 Ω
Normal site attenuation (NSA)	$< \pm 4$ dB at 10 m distance between item
	under test and receiver antenna, (30
	MHz to 1000 MHz)
Field homogeneity	More than 75% of illuminated surface
	is between 0 and 6 dB (26 MHz to 1000
	MHz).

Summary

Considering the results of the performed test according to standard USA FCC Parts 15.247 and 15.109, the item under test is **IN COMPLIANCE** with the requested specifications specified in the standard.

NOTE: The results presented in this Test Report apply only to the particular item under test established in page 1 of this document, as presented for test on the date(s) shown in section, "USAGE OF SAMPLES, TESTING PERIOD AND ENVIRONMENTAL CONDITIONS".

Remarks and comments

1: Test not requested.

Testing verdicts

Not applicable	NA
Pass:	Р
Fail:	F
Not measured:	NM



FCC PART 15 PARAGRAPHVERD		DICT	- -	
	NA	Р	F	NM
15.247 Subclause (a) (1). 20 dB Bandwidth and Carrier frequency separation				NM^1
15.247 Subclause (a) (1) (iii). Number of hopping channels				NM^1
15.247 Subclause (a) (1) (iii). Time of occupancy (Dwell Time)				NM^1
15.247 Subclause (b). Maximum peak output power (radiated) and antenna gain		Р		
15.247 Subclause (c). Band-edge of radiated emissions (Transmitter)		Р		
15.247 Subclause (c). Emission limitations conducted (Transmitter)				NM^1
15.247 Subclause (c). Emission limitations radiated (Transmitter)		Р		
15.109. Radiated emission limits for receiver		Р		



APPENDIX A: Test result



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Section 15.109. Receiver spurious radiation	



TEST CONDITIONS

Power supply (V):

V_{nominal} = 5.0 Vdc Type of power supply = DC voltage from USB port. Type of antenna = Integral antenna. Declared Gain for antenna = 2 dBi

TEST FREQUENCIES: Lowest channel: 2402 MHz Middle channel: 2441 MHz Highest channel: 2480 MHz

The test set-up was made in accordance to the general provisions of ANSI C63.4: 2003.

RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive (wooden) platform one meter above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.



Section 15.247 Subclause (b). Maximum output power and antenna gain

SPECIFICATION

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt (30 dBm).

<u>RESULTS</u>

MAXIMUM PEAK OUTPUT POWER (RADIATED).

Modulation: GFSK

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2441 MHz	2480 MHz
Correction Factor (dB)	35.0	35.1	35.2
Maximum EIRP peak power (dBm)	-4.55	-6.57	-9.97
Measurement uncertainty (dB)		±4.0	

Modulation: Π/4-DQPSK (2 Mbps)

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2441 MHz	2480 MHz
Correction Factor (dB)	35.0	35.1	35.2
Maximum EIRP peak power (dBm)	-5.51	-7.36	-11.11
Measurement uncertainty (dB)		±4.0	

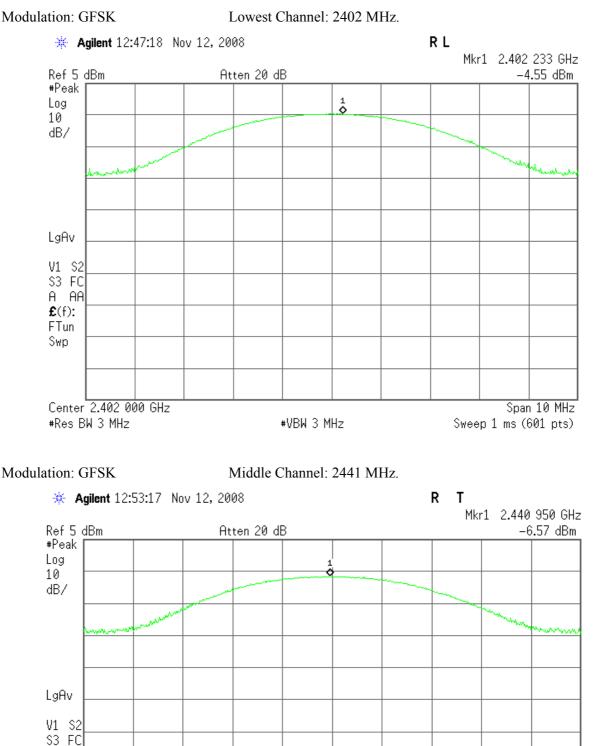
Modulation: 8-DPSK (3Mbps)

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2441 MHz	2480 MHz
Correction Factor (dB)	35.0	35.1	35.2
Maximum EIRP peak power (dBm)	-5.36	-6.95	-10.88
Measurement uncertainty (dB)		±4.0	

Declared antenna peak gain: 2 dBi

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.





#Res BW 3 MHz

Center 2.441 000 GHz

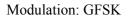
A AA £(f): FTun Swp

#VBW 3 MHz

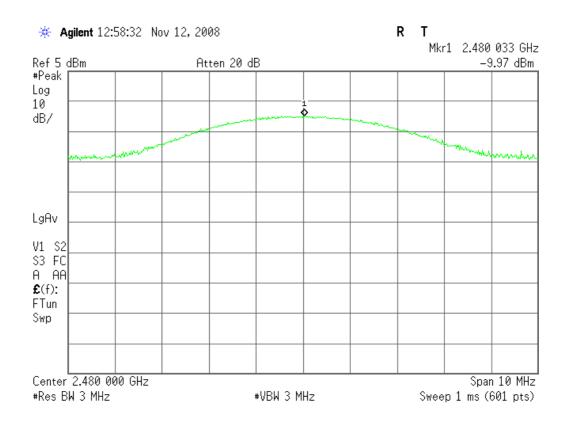
Span 10 MHz

Sweep 1 ms (601 pts)



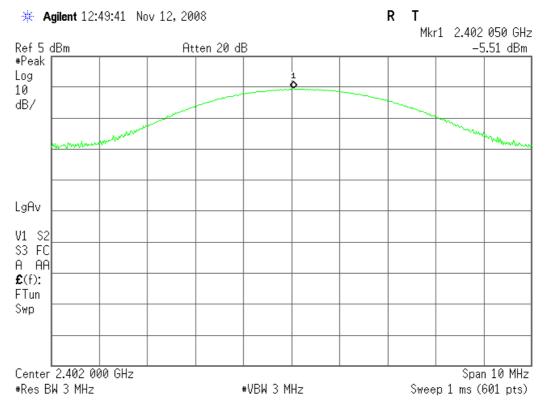


Highest Channel: 2480 MHz.

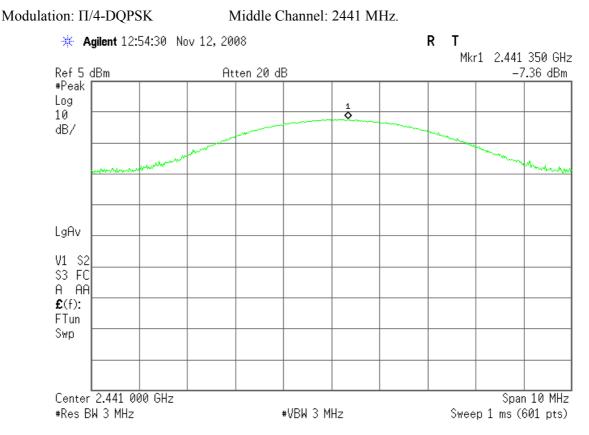


Modulation: $\Pi/4$ -DQPSK

Lowest Channel: 2402 MHz.



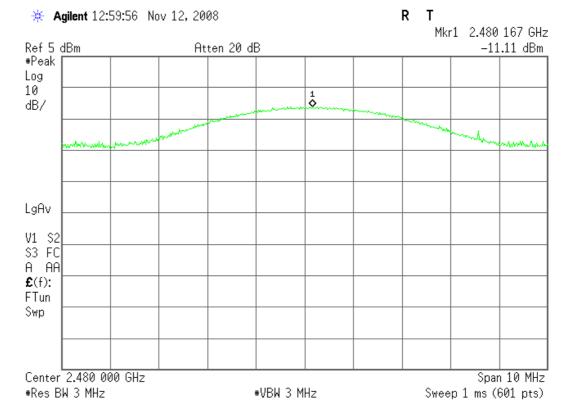




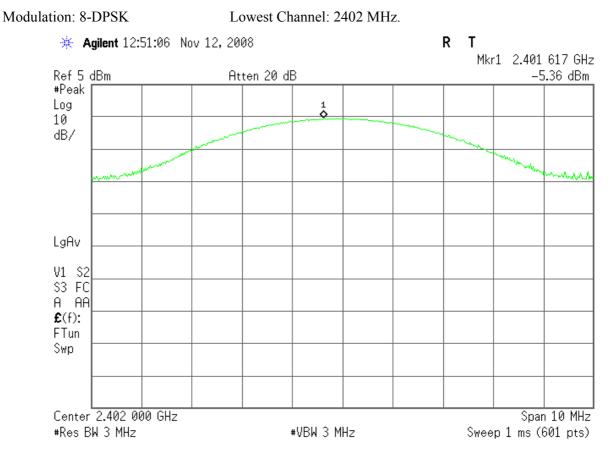
PEAK OUTPUT POWER (RADIATED).

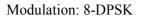
Modulation: Π/4-DQPSK

Highest Channel: 2480 MHz.

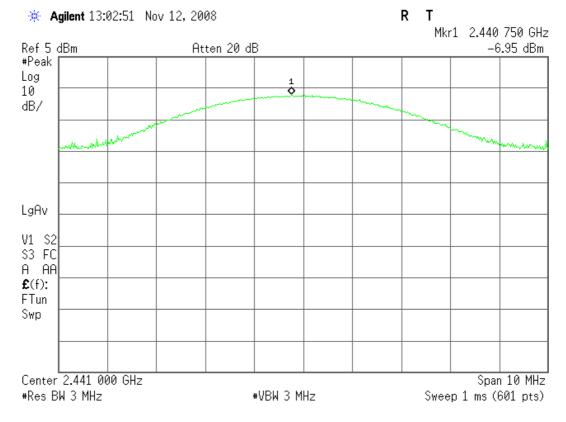




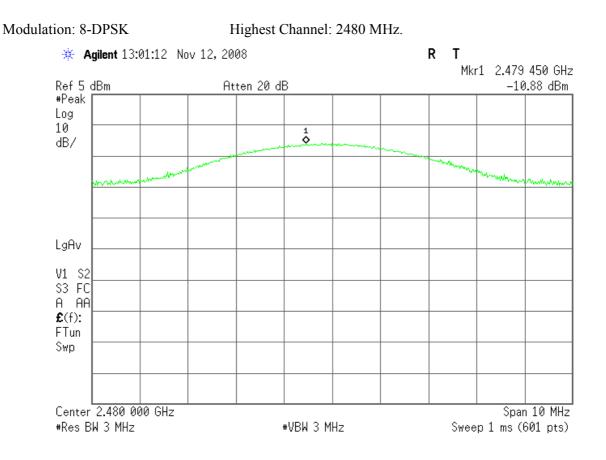




Middle Channel: 2441 MHz.









Section 15.247 Subclause (d). Band-edge emissions compliance (Transmitter)

SPECIFICATION:

Emissions outside the frequency band in which the intentional radiator is operating shall be at least 20 dB below the highest level of the desired power.

RESULTS:

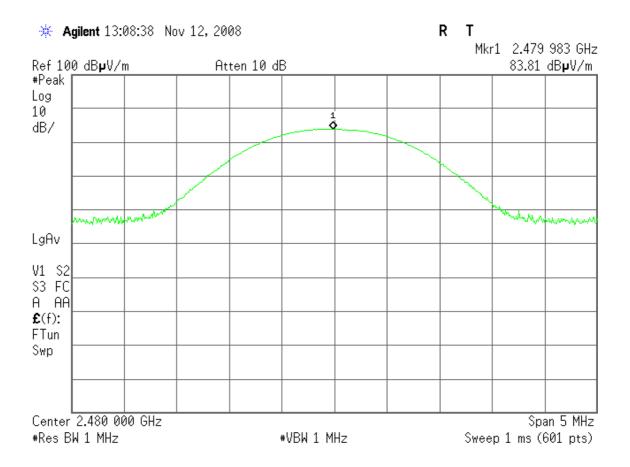
Band-edge compliance of radiated emissions

Maximum peak and average field strength of fundamental emission at 3 m distance

HIGHEST CHANNEL (2480 MHz):

Modulation: GFSK

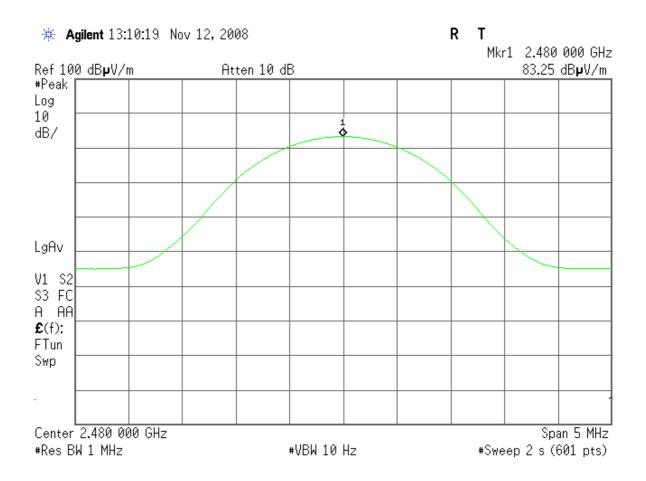
Maximum field strength at 3 m. Peak value.



Note: The correction factor is already included in the spectrum analyzer as a transducer factor so that the marker shows directly the field strength level.



Maximum field strength at 3 m. Average value.

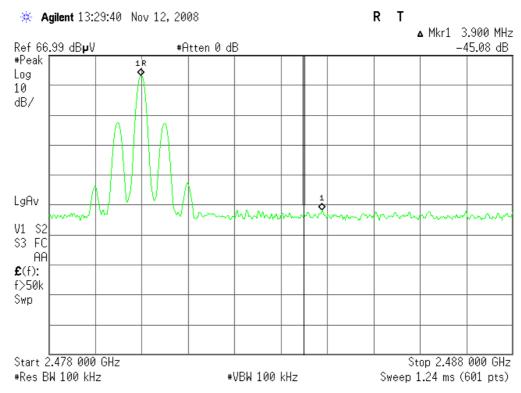


Note: The correction factor is already included in the spectrum analyzer as a transducer factor so that the marker shows directly the field strength level.

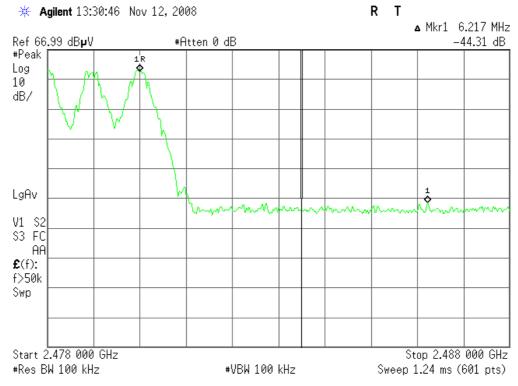


BAND-EDGE COMPLIANCE. RADIATED. Marker-Delta Method.

Single carrier



Hopping mode



Note: No correction is applied for this relative measurement.



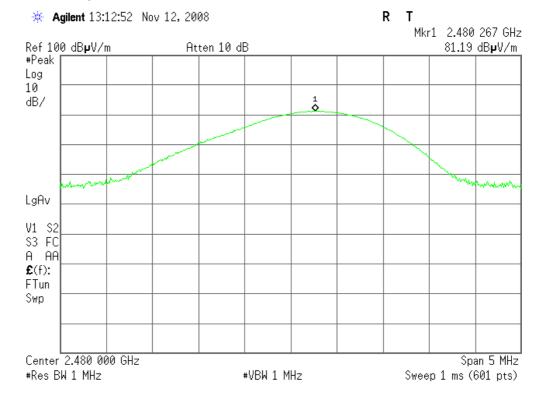
Band edge compliance of radiated emissions

Fundamental max. average value 3 m	Delta value	Calculated value 3 m	Limit
83.25 dBµV/m	45.08 dB (single carrier)	38.17 dBµV/m (single carrier)	54 $dB\mu V/m$
	44.31 dB (hopping mode)	38.94 dBµV/m (hopping mode)	

Fundamental max. Peak value 3 m	Delta value	Calculated value 3 m	Limit
83.81 dBµV/m	45.08 dB (single carrier)	38.73 dBµV/m (single carrier)	$74 \ dB\mu V/m$
	44.31 dB (hopping mode)	39.50 dBµV/m (hopping mode)	

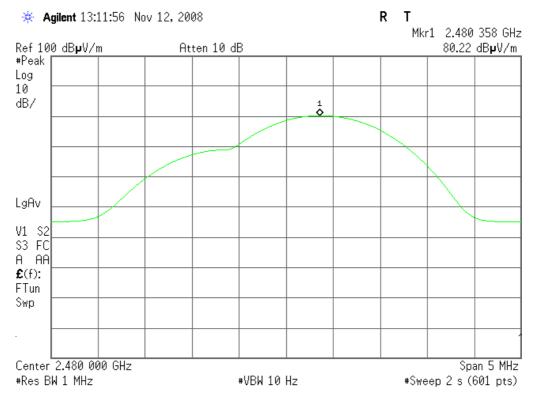


Modulation: Π/4-DQPSK



Maximum field strength at 3 m. Peak value.

Maximum field strength at 3 m. Average value.

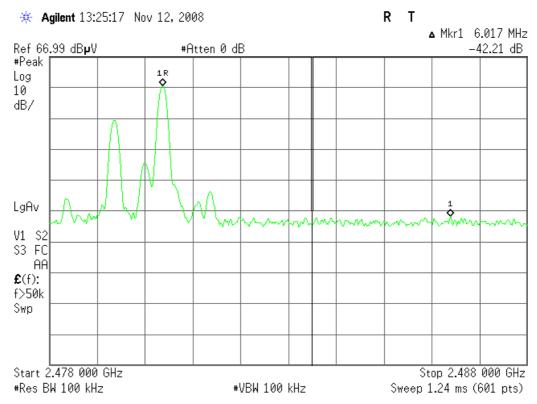


Note: The correction factor is already included in the spectrum analyzer as a transducer factor so that the marker shows directly the field strength level.

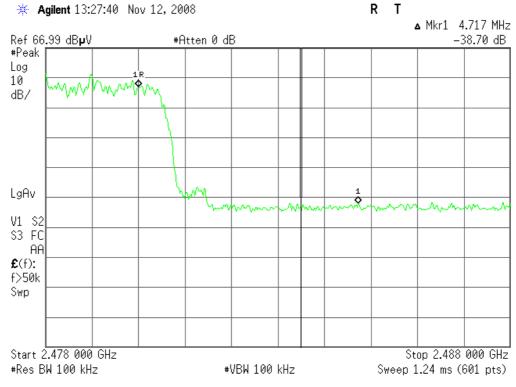


BAND-EDGE COMPLIANCE. RADIATED. Marker-Delta Method.

Single carrier



Hopping mode



Note: No correction is applied for this relative measurement.



Band edge compliance of radiated emissions

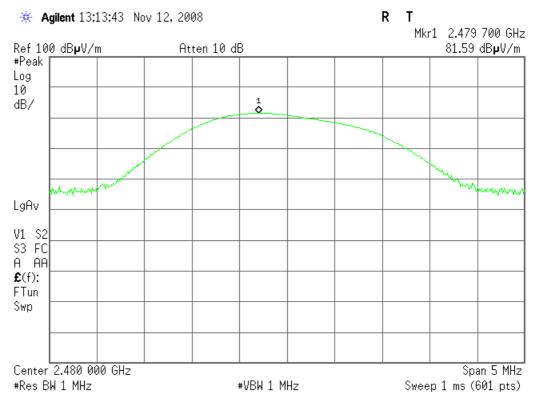
Fundamental max. average value 3 m	Delta value	Calculated value 3 m	Limit
80.22 dBµV/m	42.21 dB (single carrier)	38.01 dBµV/m (single carrier)	54 $dB\mu V/m$
	38.70 dB (hopping mode)	41.52 dBµV/m (hopping mode)	

Fundamental max. Peak value 3 m	Delta value	Calculated value 3 m	Limit
81.19 dBµV/m	42.21 dB (single carrier)	38.98 dBµV/m (single carrier)	74 dB μ V/m
	38.70 dB (hopping mode)	42.49 dBµV/m (hopping mode)	

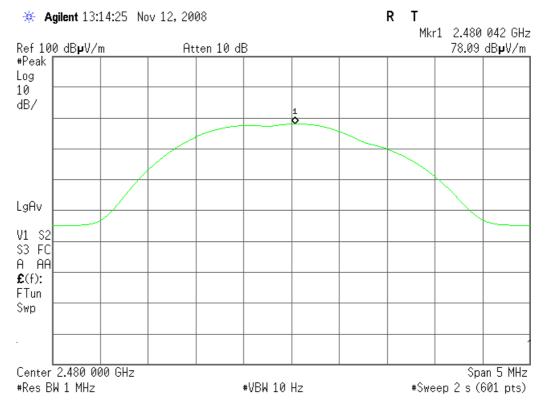


Modulation: 8-DPSK

Maximum field strength at 3 m. Peak value.



Maximum field strength at 3 m. Average value.

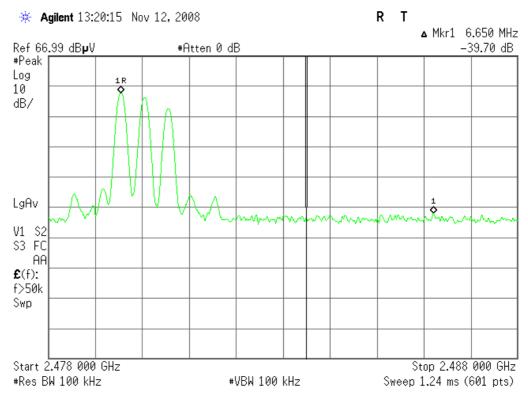


Note: The correction factor is already included in the spectrum analyzer as a transducer factor so that the marker shows directly the field strength level.

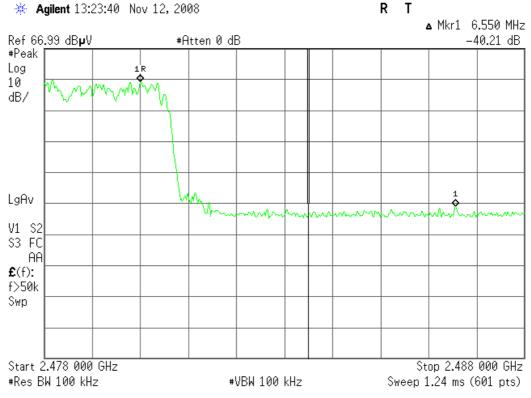


BAND-EDGE COMPLIANCE. RADIATED. Marker-Delta Method.

Single carrier



Hopping mode



Note: No correction is applied for this relative measurement.



Band edge compliance of radiated emissions

Fundamental max. average value 3 m	Delta value	Calculated value 3 m	Limit
78.09 dBµV/m	39.70 dB (single carrier)	38.39 dBµV/m (single carrier)	54 $dB\mu V/m$
	40.21 dB (hopping mode)	37.88 dBµV/m (hopping mode)	

Fundamental max. Peak value 3 m	Delta value	Calculated value 3 m	Limit
81.59 dBµV/m	39.70 dB (single carrier)	41.89 dBµV/m (single carrier)	74 dB μ V/m
	40.21 dB (hopping mode)	41.38 dBµV/m (hopping mode)	



Section 15.247 Subclause (d). Emission limitations radiated (Transmitter)

SPECIFICATION

Frequency Range (MHz)	Field strength ($\mu V/m$)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

The equipment transmits continuously in the selected channel so it is not necessary a duty cycle correction factor.



Frequency range 30 MHz-1000 MHz.

No spurious signals found in all the range for all modulation modes.

Frequency range 1 GHz-25 GHz

Modulation: GFSK

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4803.998	V	Peak	53.08	± 4.0
4803.998	V	Average	40.75	± 4.0

2. CHANNEL: MIDDLE (2441 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4881.882	V	Peak	51.83	± 4.0
4881.882	V	Average	39.65	± 4.0

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4960.005	V	Peak	45.57	± 4.0
4960.005	V	Average	35.36	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz for the three operating channels.



Modulation: $\Pi/4$ -DQPSK

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4803.988	V	Peak	47.53	± 4.0
4803.988	V	Average	35.36	± 4.0

2. CHANNEL: MIDDLE (2441 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4882.052	V	Peak	48.07	± 4.0
4882.052	V	Average	35.89	± 4.0

3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4960.008	V	Peak	42.80	± 4.0
4960.008	V	Average	30.69	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz for the three operating channels.



Modulation: 8-DPSK

1. CHANNEL: LOWEST (2402 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4803.991	V	Peak	47.80	± 4.0
4803.991	V	Average	35.57	± 4.0

2. CHANNEL: MIDDLE (2441 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4882.063	V	Peak	47.80	± 4.0
4882.063	V	Average	35.87	± 4.0

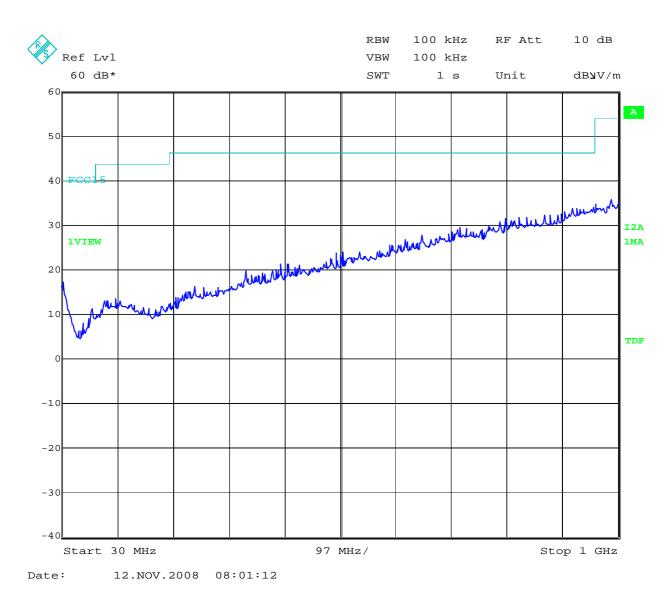
3. CHANNEL: HIGHEST (2480 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
4960.031	V	Peak	42.89	± 4.0
4960.031	V	Average	31.07	± 4.0

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz for the three operating channels.



FREQUENCY RANGE 30 MHz-1000 MHz.

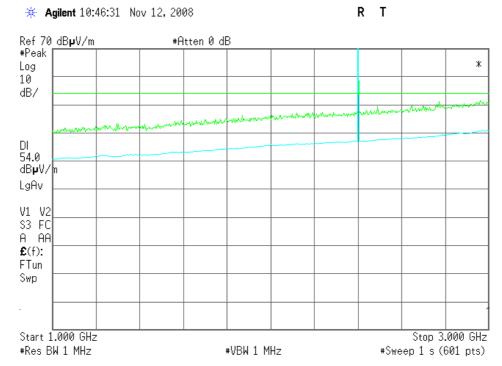


(This plot is valid for all three channels and all modulation modes).



FREQUENCY RANGE 1 GHz to 3 GHz.

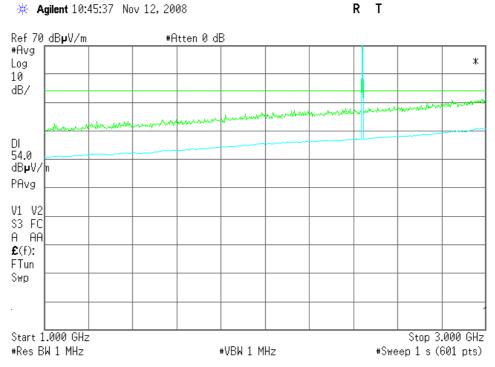
CHANNEL: Lowest (2402 MHz).



Note: The peak shown in the plot is the carrier frequency.

(This plot is valid for all modulation modes).

CHANNEL: Middle (2441 MHz).

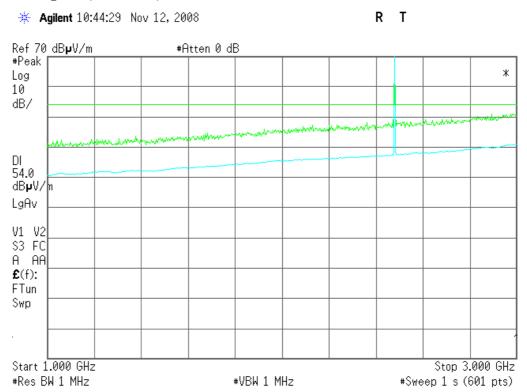


Note: The peak shown in the plot is the carrier frequency.

(This plot is valid for all modulation modes).



CHANNEL: Highest (2480 MHz).



Note: The peak shown in the plot is the carrier frequency.

(This plot is valid for all modulation modes).



FREQUENCY RANGE 3 GHz to 12.75 GHz.

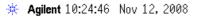
Modulation: GFSK

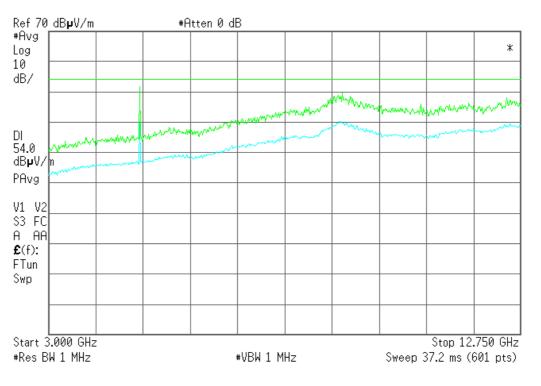
CHANNEL: Lowest (2402 MHz).

🔆 Agilent 10:10:36 Nov 12, 2008 R T Ref 70 dB**µ**V/m #Atten 0 dB #Avg * Log 10 dB/ s shakarin Month DI 54.0 dB**µ**V∕'n PAvg V1 V2 \$3 FC A AA **£**(f): FTun Swp Start 3.000 GHz Stop 12.750 GHz #Res BW 1 MHz #VBW 1 MHz Sweep 37.2 ms (601 pts)

R T

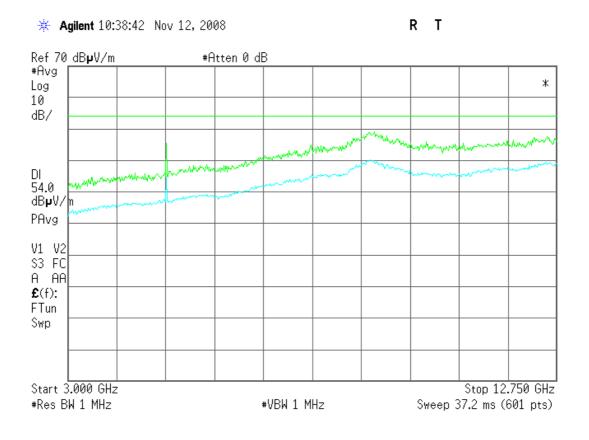
CHANNEL: Middle (2441 MHz).







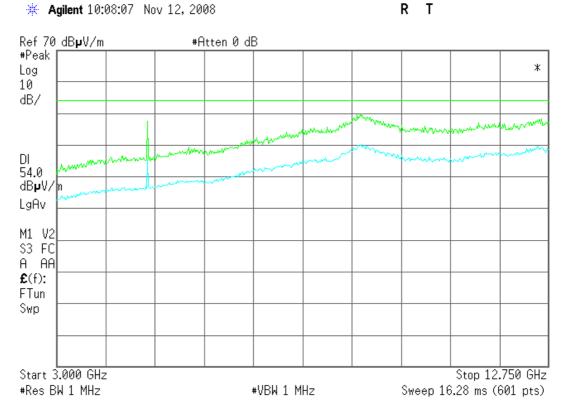
CHANNEL: Highest (2480 MHz).



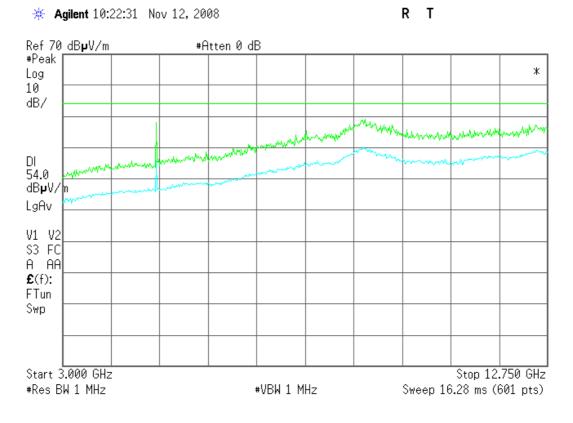


Modulation: Π/4-DQPSK

CHANNEL: Lowest (2402 MHz).

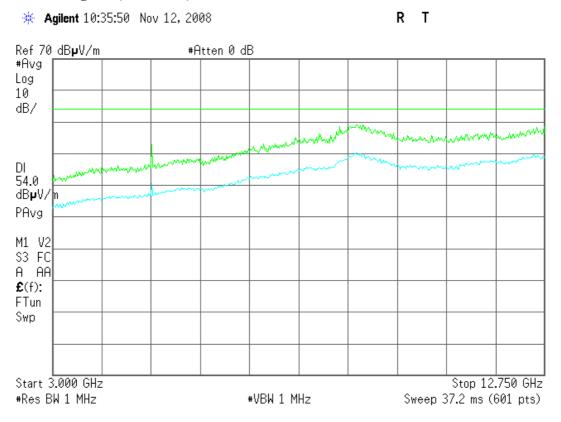


CHANNEL: Middle (2441 MHz).





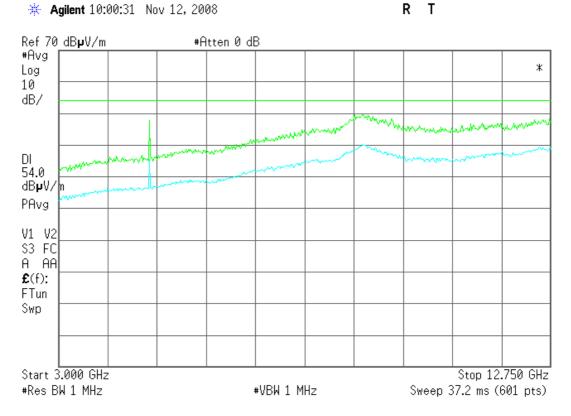
CHANNEL: Highest (2480 MHz).



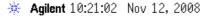


Modulation: 8-DPSK

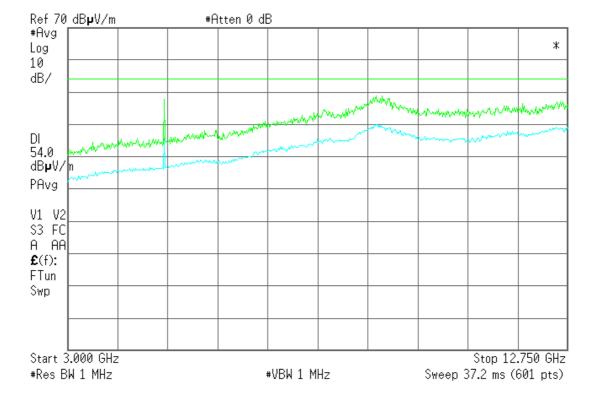
CHANNEL: Lowest (2402 MHz).



CHANNEL: Middle (2441 MHz).

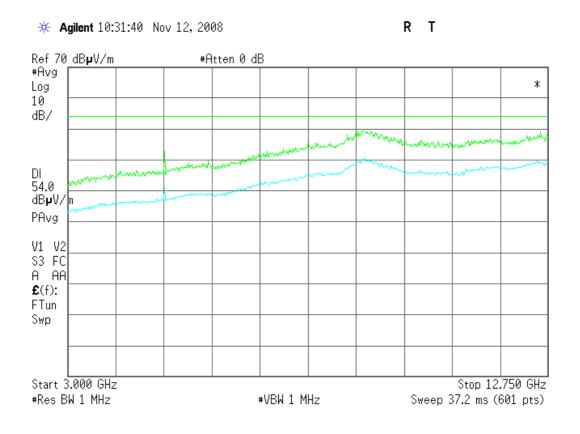








CHANNEL: Highest (2480 MHz).

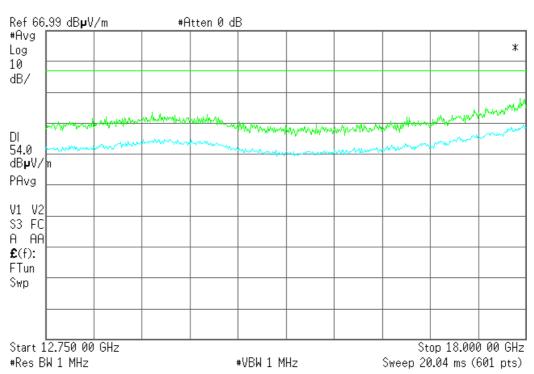




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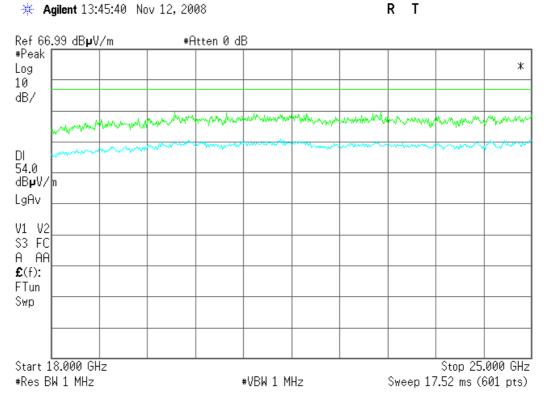
FREQUENCY RANGE 12.75 GHz to 18 GHz.

🔆 Agilent 13:47:31 Nov 12, 2008



(This plot is valid for all three channels and all modulation modes).

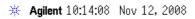
FREQUENCY RANGE 18 GHz to 25 GHz.



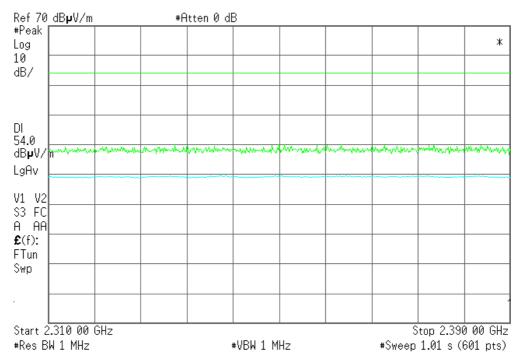
(This plot is valid for all three channels and all modulation modes).



FREQUENCY RANGE 2.31 GHz to 2.39 GHz. (RESTRICTED BAND)

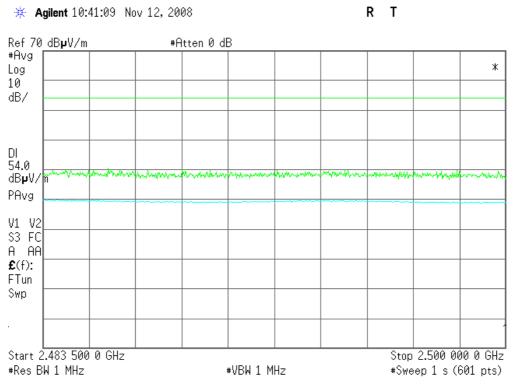






(This plot is valid for all three channels and all modulation modes).

FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND)



(This plot is valid for all three channels and all modulation modes).



Section 15.109. Receiver spurious radiation

SPECIFICATION

Frequency Range (MHz)	Field strength ($\mu V/m$)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	_	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The field strength shall not exceed the following values:

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-25 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.



Note: It is not possible to select individual receiving channels in the equipment under test. The equipment under test is set in inquiry scan mode with the receiver open and scanning through receiving channels.

Frequency range 30 MHz-1000 MHz.

No spurious signals were detected in all the range.

Frequency range 1 GHz-25 GHz.

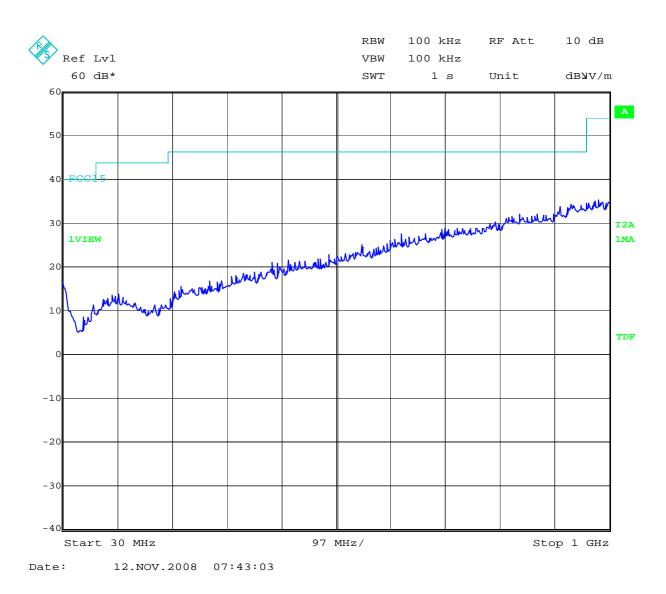
No spurious signals were detected in all the range.

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz.

Verdict: PASS.



FREQUENCY RANGE 30 MHz-1000 MHz.

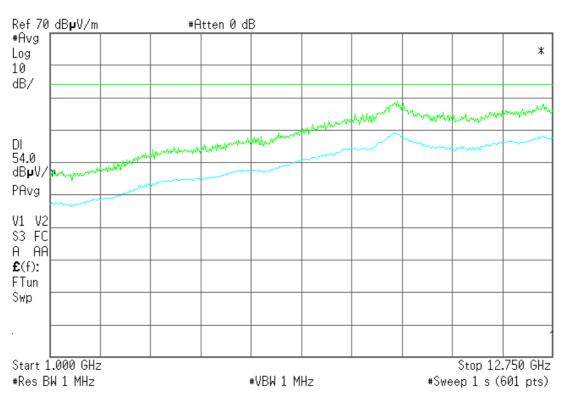




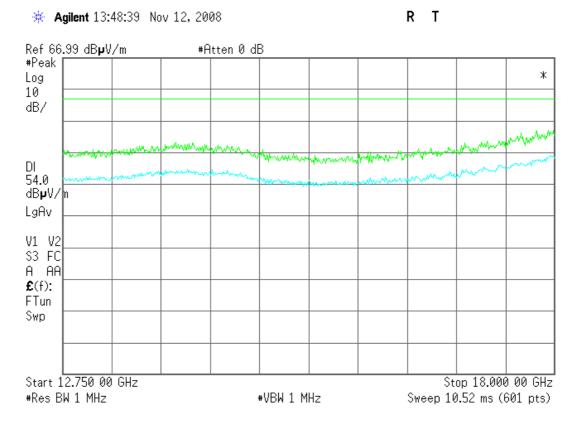
R T

FREQUENCY RANGE 1 GHz-12.75 GHz.

🔆 Agilent 09:32:03 Nov 12, 2008 👘



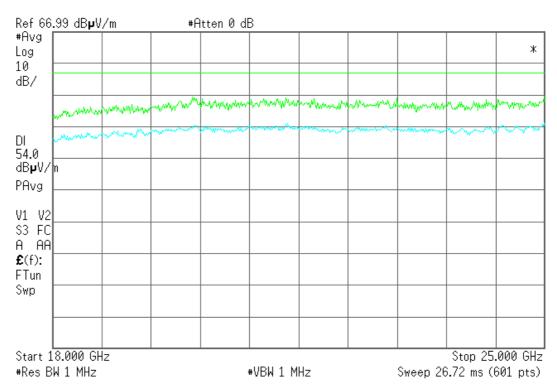
FREQUENCY RANGE 12.75 GHz-18 GHz.





FREQUENCY RANGE 18 GHz-25 GHz.

🔆 Agilent 13:44:46 Nov 12, 2008

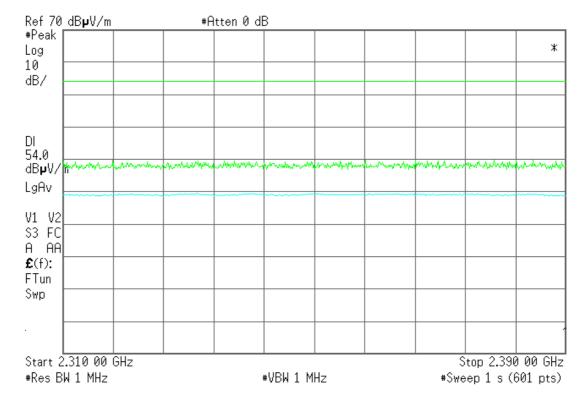


FREQUENCY RANGE 2.31 GHz to 2.39 GHz. (RESTRICTED BAND)



R T

R T

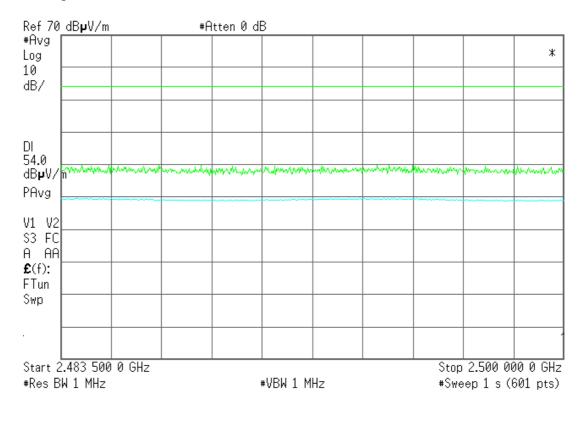




FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND)

🔆 Agilent 09:38:11 Nov 12, 2008

R T

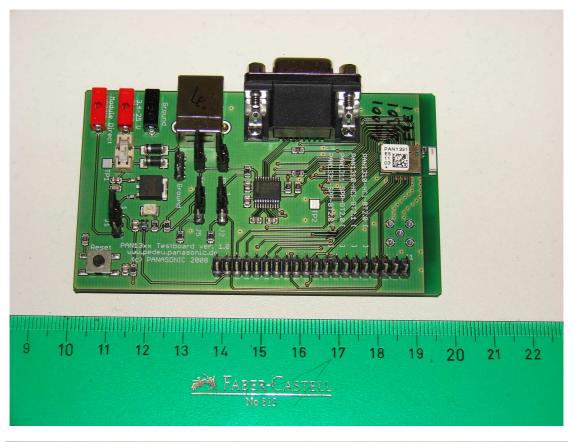


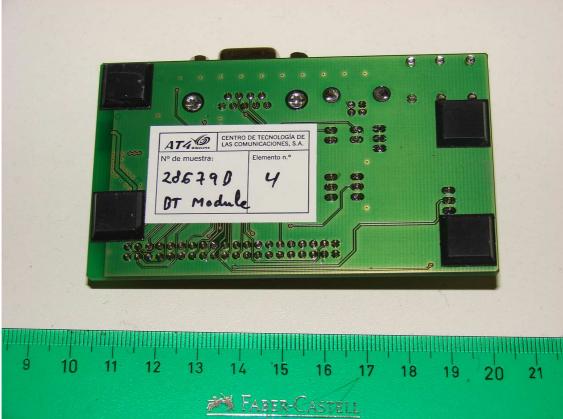


APPENDIX B: Photographs

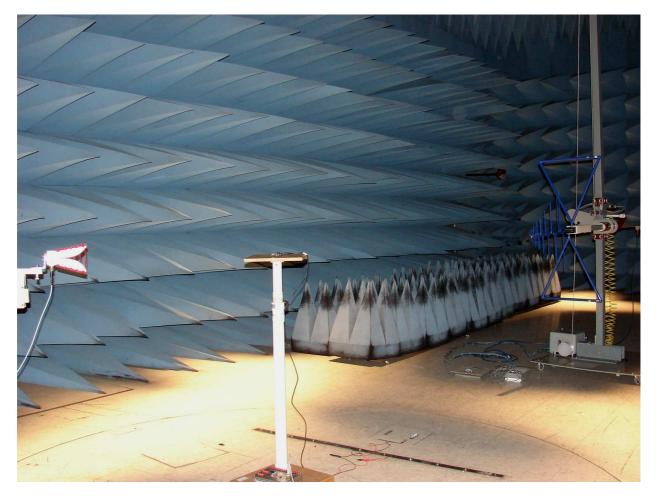


EQUIPMENT FOR RADIATED MEASUREMENTS





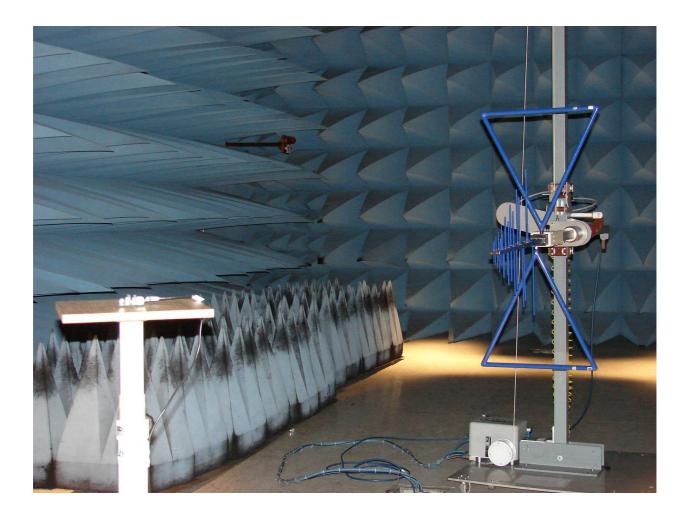




GENERAL SET-UP FOR RADIATED MEASUREMENTS



TEST SET-UP FOR RADIATED MEASUREMENTS BELOW 1 GHz





TEST SET-UP FOR RADIATED MEASUREMENTES ABOVE 1GHz

