



FCC PART 15C TEST REPORT No. 2011TAR291

for

Sony Ericsson Mobile Communications AB

GSM 850/900/1800/1900 quad bands mobile phone

Model Name: AAB-1880033-BV

Marketing Name: CK13i

With

FCC ID: PY7A1880033

IC No: 4170B- A1880033

Hardware Version: A

Software Version: P5AB206

Issued Date: 2011-07-06



No. DGA-PL-114/01-02

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629A-1

Note:The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

Test Laboratory:

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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: Shouxiang Science Building, No 51, Xueyuan Road, Haidian District,
Beijing, P.R.China
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304793

1.2. Testing Environment

Normal Temperature: 15-35°C
Extreme Temperature: -20/+55°C
Relative Humidity: 30-60%
Air Pressure 990hPa-1040hPa

Note: The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2011-06-14
Testing End Date: 2011-07-06

1.4. Signature



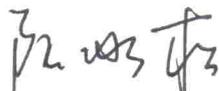
Zi Xiaogang

(Prepared this test report)



Sun Xiangqian

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Sony Ericsson Mobile Communications(China) Co., Ltd.
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City: Beijing
Postal Code: 100000
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2.2. Manufacturer Information

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Country: Sweden
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Telephone: +46 46 193919
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM 850/900/1800/1900 quad bands mobile phone
Model Name	AAB-1880033-BV
Marketing Name	CK13i
FCC ID	PY7A1880033
IC No	4170B-A1880033
Frequency Range	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
Number of Channels	79
Cellular Frequency Band	EGSM900/DCS1800/PCS1900/ GSM 850
Support Functions	MP3, Camera, FM radio, USB memory, Bluetooth and WLAN (802.11 b/g)
Antenna	Integral Antenna
MAX Radiated Power	6.03dBm EIRP(GFSK)
MAX Conducted Power	2.09dBm(GFSK)
Power Supply	3.7V DC by Battery

Note: Photographs of EUT are shown in ANNEX D of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	S/N	IMEI	HW Version	SW Version
#20036	WUJ0298743	004402142987431	A	P5AB206

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN	Revision
AE1	Battery		108809PTNKLS	2
AE2	Battery		102895PTNKLS	2
#19866	Travel Adapter		1109W50500931	1

AE1, AE2

Type Number	CBA-0002017
Manufacturer	SonyEricsson
Capacitance	1000mAh
Nominal Voltage	3.7V

#19866

Type Number	CAA-0004001-BV
Manufacturer	Emerson
Length of cable	151cm

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of GSM 850/900/1800/1900 quad bands mobile phone with integrated antenna.

It has MP3, Camera, FM radio, USB memory, Bluetooth and WLAN (802.11 b/g) functions. It also supports GPRS function with multi-slots class 10 and EGPRS function with multi-slots class 10 too.

It consists of normal options: lithium battery and travel charger. Since subscribers often use MS during charging, EUT is to be test in accordance with “Base Station and ancillary equipment for fixed use” besides in accordance with “Portable and ancillary equipment for portable use”.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Oct, 2009 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009
FCC Public Notice DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems	March 2000
RSS - Gen Issue 2	Spectrum Management and Telecommunications - Radio Standards Specification General Requirements and Information for the Certification of Radiocommunication Equipment	2007-06
RSS - 210 Issue 7	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment	2007-06

5. LABORATORY ENVIRONMENT

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Modulation	Sub-clause of Part15C	Sub-clause of IC	Verdict
Peak Output Power (Conducted)	GFSK/	15.247 (b)(1)	RSS-210 A8.4 (2)	P
	$\pi/4$ DQPSK			P
	8DPSK			P
Peak Output Power(Radiated)	GFSK	15.247 (b)(1)	RSS-210 A8.4 (2)	P
Antenna Gain	GFSK/	None	None	P
Frequency Band Edges	GFSK	15.247 (d)	RSS-210 A8.5	P
	$\pi/4$ DQPSK			P
	8DPSK			P
Conducted Emission	GFSK	15.247 (d)	RSS-210 A8.5	P
	$\pi/4$ DQPSK			P
	8DPSK			P
Radiated Emission	GFSK	15.247(d),15.205,15.209,15.109	RSS-210 A8.5	P
	$\pi/4$ DQPSK			P
	8DPSK			P
Time of Occupancy (Dwell Time)	GFSK	15.247 (a) (1)(iii)	RSS-210 A8.1 (4)	P
	$\pi/4$ DQPSK			P
	8DPSK			P
20dB Bandwidth	GFSK	15.247 (a)(1)	RSS-210 A8.1 (1)	P
	$\pi/4$ DQPSK			P
	8DPSK			P
Carrier Frequency Separation	GFSK	15.247 (a)(1)	RSS-210 A8.1 (2)	P
	$\pi/4$ DQPSK			P
	8DPSK			P
Number of hopping channels	GFSK	15.247 (a)(1)(iii)	RSS-210 A8.1 (4)	P
	$\pi/4$ DQPSK			P
	8DPSK			P
AC Powerline Conducted Emission	GFSK	15.107, 15.207	RSS-Gen 7.2.2	P

Please refer to **ANNEX A** for detail.

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

The test cases as listed in section 6.1 of this report for the EUT specified in section 3 was performed by TMC and according to the standards or reference documents listed in section 4.2 The EUT met all requirements of the standards or reference documents.

6.3. Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	T nom	26°C
Voltage	V nom	3.7V(By battery)
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

7. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSU26	200030	Rohde & Schwarz	2011-08-18
2	Bluetooth Tester	CBT32	100649	Rohde & Schwarz	2011-08-03

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2011-08-11
2	EMI Antenna	VULB 9163	9163 301	Schwarzbeck	2011-08-29
3	EMI Antenna	3117	00034610	EMCO	2011-08-30
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2011-08-01
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-08-01
6	Universal Radio Communication Tester	CMU200	105948	Rohde & Schwarz	2011-08-13
7	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2011-08-12
8	Pre-amplifier(18GHz)	/	1005277	Rohde & Schwarz	/
9	Pre-amplifier(26.5GHz)	/	1005277	Rohde & Schwarz	/

Anechoic chamber

Fully anechoic chamber by Frankonia German.

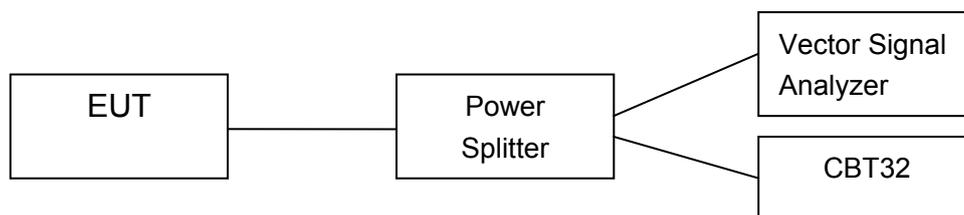
ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

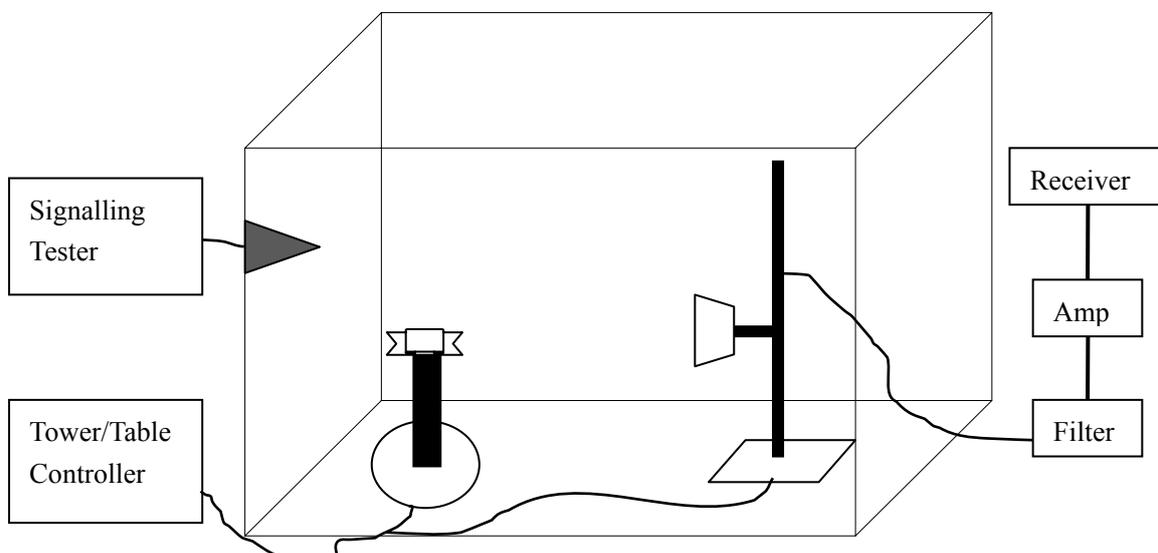
The measurement is made according to Public notice DA 00-705 and ANSI C63.4

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 1MHz;



A.2. Peak Output Power

Measurement Limit:

Standard	Limit (dBm)
FCC Part 15.247(b)(1)/ / RSS-210 A8.4 (2)	< 30

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

Measurement Results:

A.2.1 Antenna gain

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the EUT.

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz
GFSK (Conducted)	1.68	1.06	2.09
GFSK (Radiated)	4.87	5.44	6.03
Gain(dBi)	3.19	4.38	3.94

Conclusion: PASS

A.2.2 Conducted Output Power

EUT ID:N19

Peak(RBW=VBW=1MHz; SPAN=5MHz; Detector: Peak)

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
GFSK (dBm)	1.68	1.06	2.09	P
$\pi/4$ DQPSK (dBm)	-1.28	-2.11	-0.68	P
8DPSK (dBm)	-1.38	-2.28	-0.82	P

Average(RBW=VBW=1MHz; SPAN=5MHz; Detector: RMS)

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
GFSK (dBm)	3.44	2.52	3.47	P
$\pi/4$ DQPSK (dBm)	0.83	-0.47	1.03	P
8DPSK (dBm)	0.64	-0.69	0.80	P

Measurement Uncertainty: ± 1.17 dB

Conclusion: PASS

A.2.4 Radiated Output Power

EUT ID:N11

Peak(RBW=VBW=1MHz; SPAN=5MHz; Detector: Peak)

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
GFSK (dBm)	4.87	5.44	6.03	P

Average

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
GFSK * (dBm)	6.63	6.9	7.41	P

Note:* These values are calculated with the antenna gain

Measurement Uncertainty: $\pm 1.98\text{dB}$

Conclusion: PASS

A.3. Frequency Band Edges

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)/ RSS-210 A8.5	> 20

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

Measurement Condition:

RBW=VBW=100KHz; SPAN=10MHz; Detector: peak

Measurement Result:

EUT ID:N19

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-47.04	P
	Hopping ON	Fig.2	-47.26	P
78	Hopping OFF	Fig.3	-51.73	P
	Hopping ON	Fig.4	-52.24	P

For $\pi/4$ DQPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.5	-46.24	P
	Hopping ON	Fig.6	-50.40	P
78	Hopping OFF	Fig.7	-50.61	P
	Hopping ON	Fig.8	-47.82	P

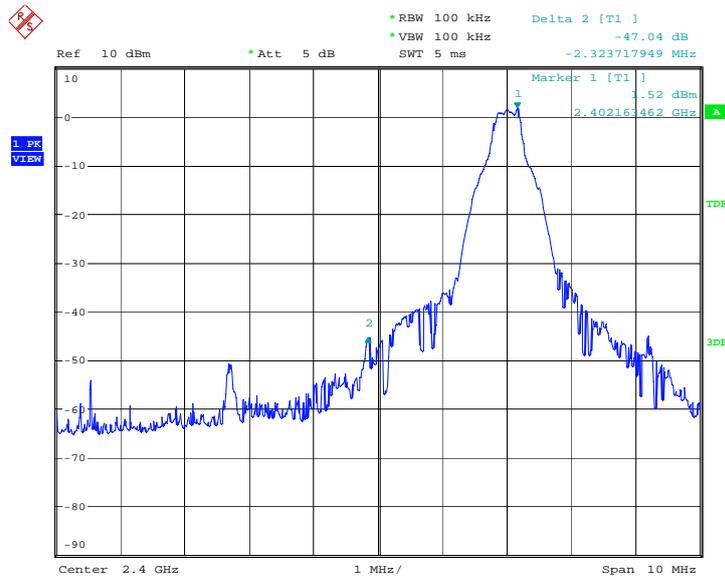
For 8DPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.9	-46.34	P
	Hopping ON	Fig.10	-51.47	P
78	Hopping OFF	Fig.11	-51.31	P
	Hopping ON	Fig.12	-51.56	P

Measurement Uncertainty: $\pm 1.37\text{dB}$

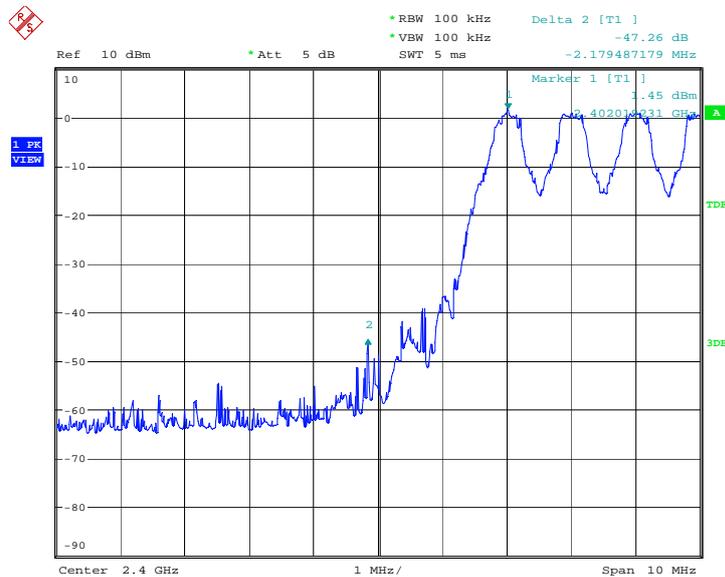
Conclusion: PASS

Test graphs as below



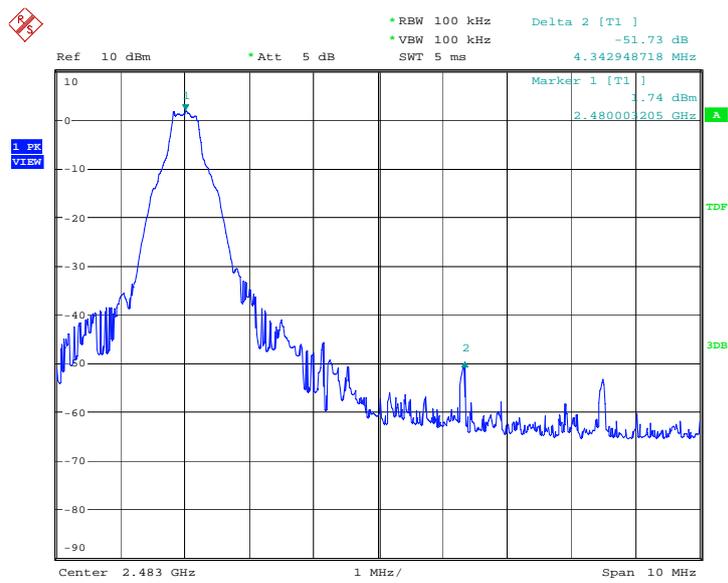
Date: 15.JUN.2011 09:16:51

Fig.1. Frequency Band Edges: GFSK, Channel 0, Hopping Off



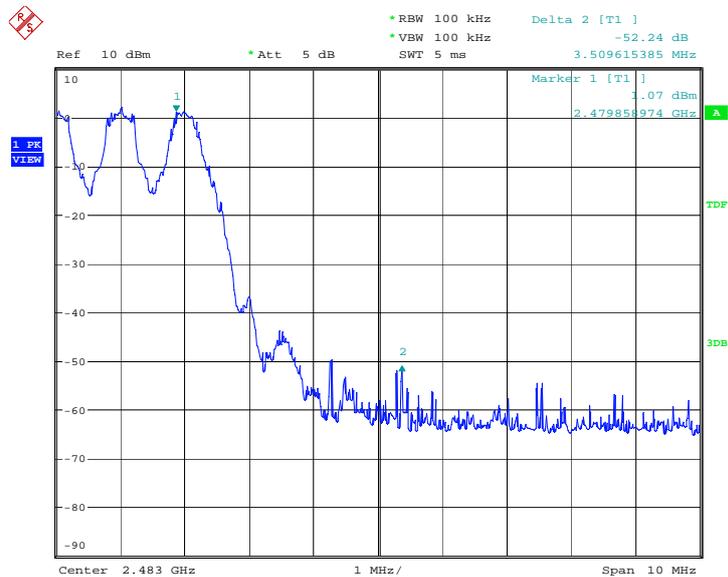
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Fig.2. Frequency Band Edges: GFSK, Channel 0, Hopping On



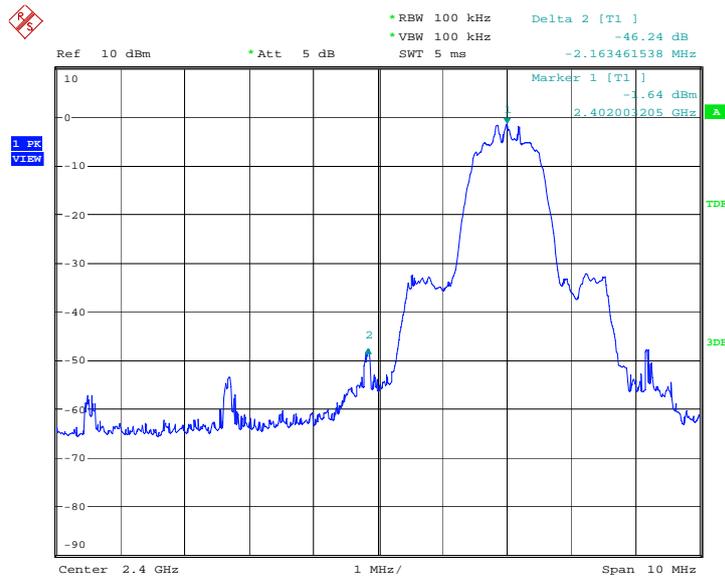
Date: 15.JUN.2011 09:17:08

Fig.3. Frequency Band Edges: GFSK, Channel 78, Hopping Off



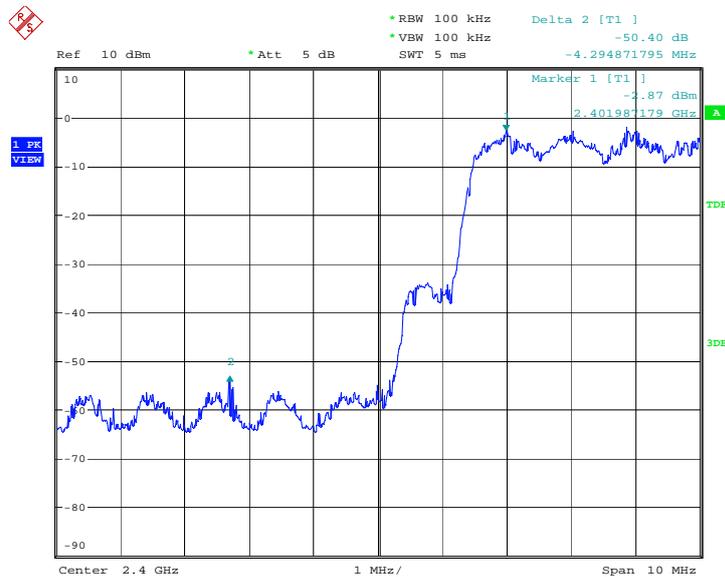
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Fig.4. Frequency Band Edges: GFSK, Channel 78, Hopping On



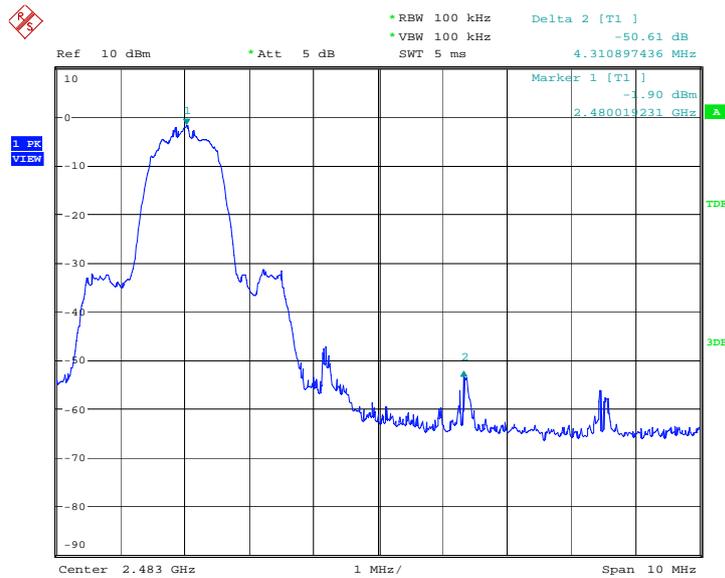
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Fig.5. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off



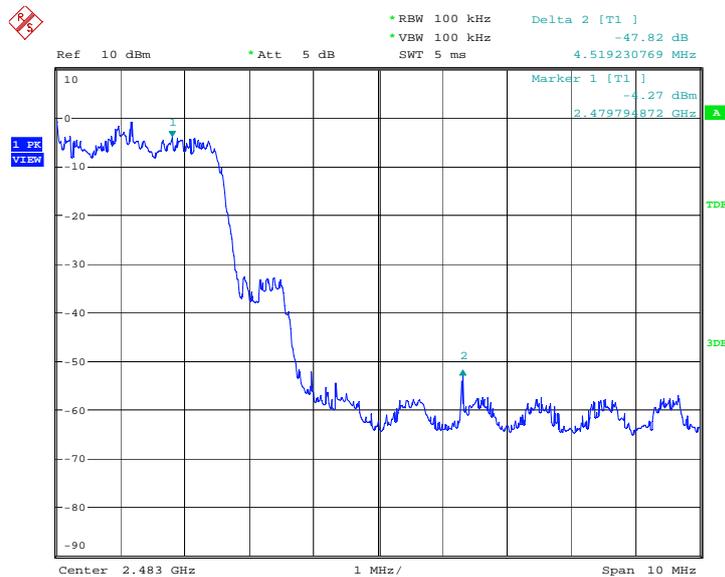
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Fig.6. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping On



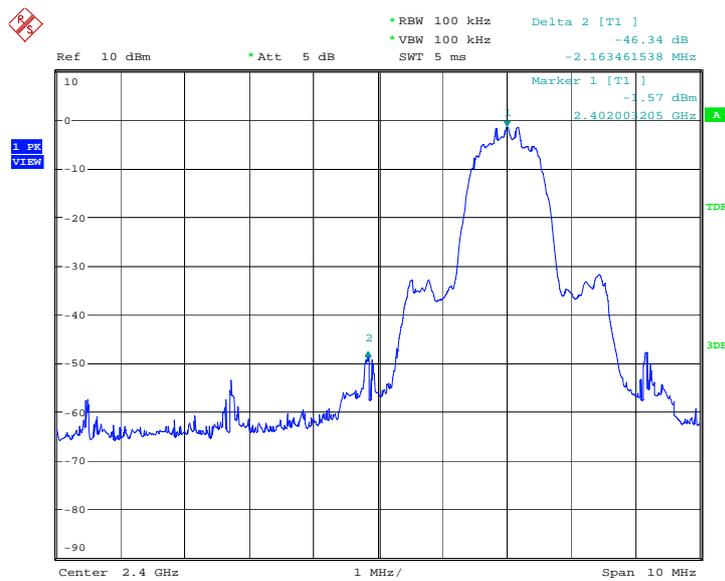
Date: 15.JUN.2011 09:39:14

Fig.7. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off



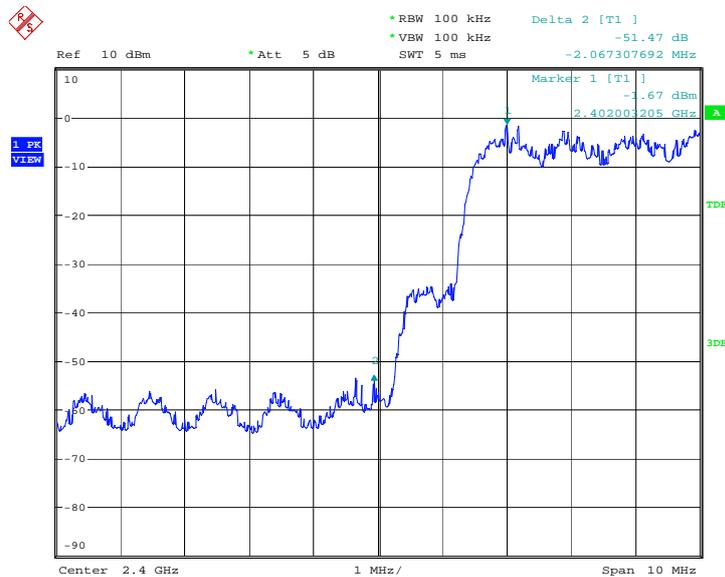
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Fig.8. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping On



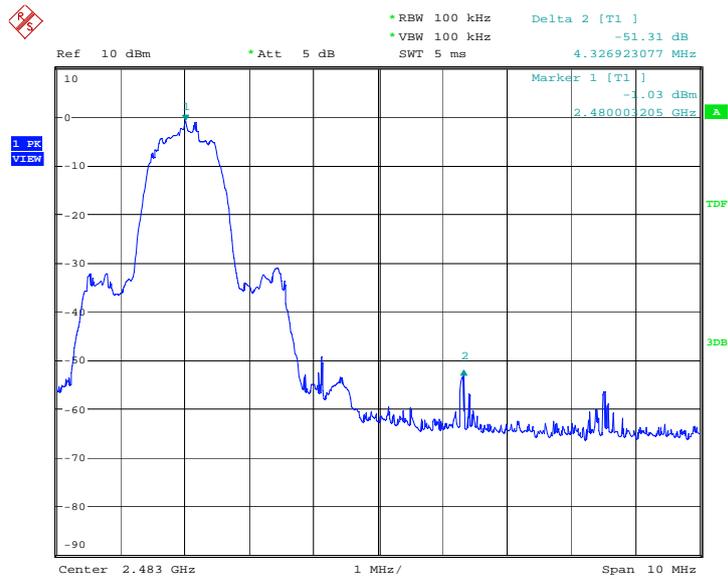
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Fig.9. Frequency Band Edges: 8DPSK, Channel 0, Hopping Off



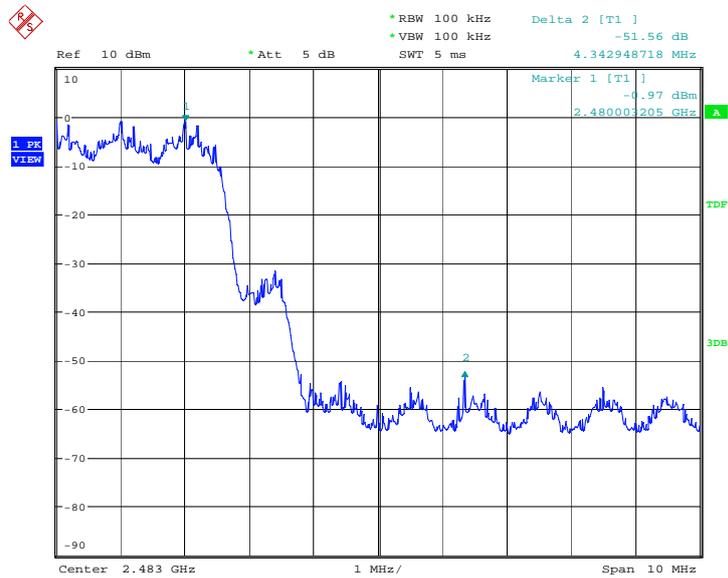
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Fig.10. Frequency Band Edges: 8DPSK, Channel 0, Hopping On



Date: 15.JUN.2011 10:01:17

Fig.11. Frequency Band Edges: 8DPSK, Channel 78, Hopping Off



Date: 15.JUN.2011 10:05:22

Fig.12. Frequency Band Edges: 8DPSK, Channel 78, Hopping On

A.4. Conducted Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.13	P
	30 MHz ~ 1 GHz	Fig.14	P
	1 GHz ~ 3 GHz	Fig.15	P
	3 GHz ~ 10 GHz	Fig.16	P
	10 GHz ~ 26 GHz	Fig.17	P
Ch 39 2441 MHz	Center Frequency	Fig.18	P
	30 MHz ~ 1 GHz	Fig.19	P
	1 GHz ~ 3 GHz	Fig.20	P
	3 GHz ~ 10 GHz	Fig.21	P
	10 GHz ~ 26 GHz	Fig.22	P
Ch 78 2480 MHz	Center Frequency	Fig.23	P
	30 MHz ~ 1 GHz	Fig.24	P
	1 GHz ~ 3 GHz	Fig.25	P
	3 GHz ~ 10 GHz	Fig.26	P
	10 GHz ~ 26 GHz	Fig.27	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.28	P
	30 MHz ~ 1 GHz	Fig.29	P
	1 GHz ~ 3 GHz	Fig.30	P
	3 GHz ~ 10 GHz	Fig.31	P
	10 GHz ~ 26 GHz	Fig.32	P
Ch 39 2441 MHz	Center Frequency	Fig.33	P
	30 MHz ~ 1 GHz	Fig.34	P
	1 GHz ~ 3 GHz	Fig.35	P
	3 GHz ~ 10 GHz	Fig.36	P
	10 GHz ~ 26 GHz	Fig.37	P
Ch 78 2480 MHz	Center Frequency	Fig.38	P
	30 MHz ~ 1 GHz	Fig.39	P
	1 GHz ~ 3 GHz	Fig.40	P

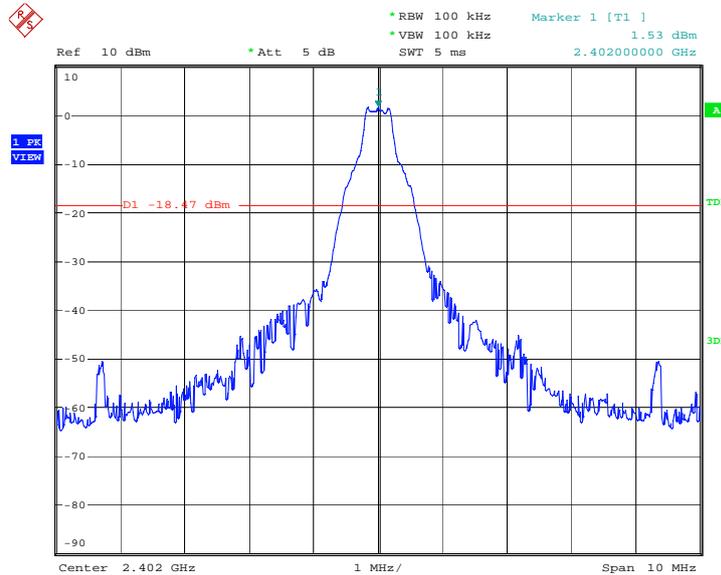
	3 GHz ~ 10 GHz	Fig.41	P
	10 GHz ~ 26 GHz	Fig.42	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.43	P
	30 MHz ~ 1 GHz	Fig.44	P
	1 GHz ~ 3 GHz	Fig.45	P
	3 GHz ~ 10 GHz	Fig.46	P
	10 GHz ~ 26 GHz	Fig.47	P
Ch 39 2441 MHz	Center Frequency	Fig.48	P
	30 MHz ~ 1 GHz	Fig.49	P
	1 GHz ~ 3 GHz	Fig.50	P
	3 GHz ~ 10 GHz	Fig.51	P
	10 GHz ~ 26 GHz	Fig.52	P
Ch 78 2480 MHz	Center Frequency	Fig.53	P
	30 MHz ~ 1 GHz	Fig.54	P
	1 GHz ~ 3 GHz	Fig.55	P
	3 GHz ~ 10 GHz	Fig.56	P
	10 GHz ~ 26 GHz	Fig.57	P

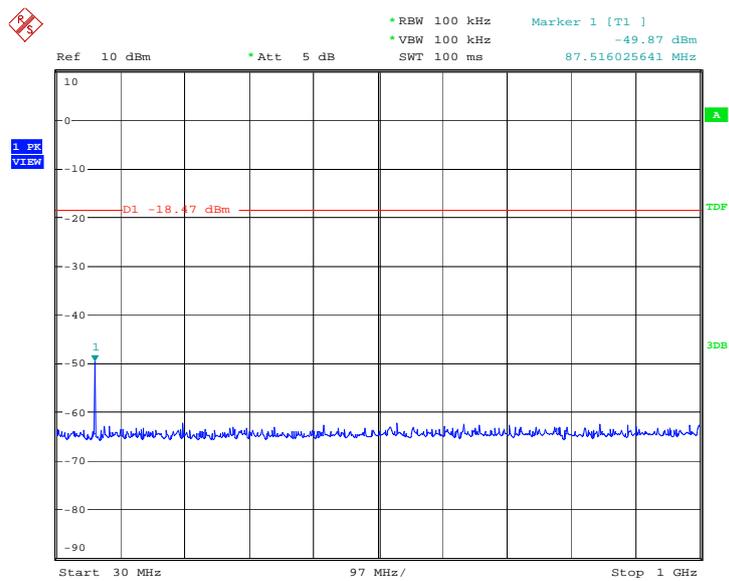
Conclusion: PASS

Test graphs as below



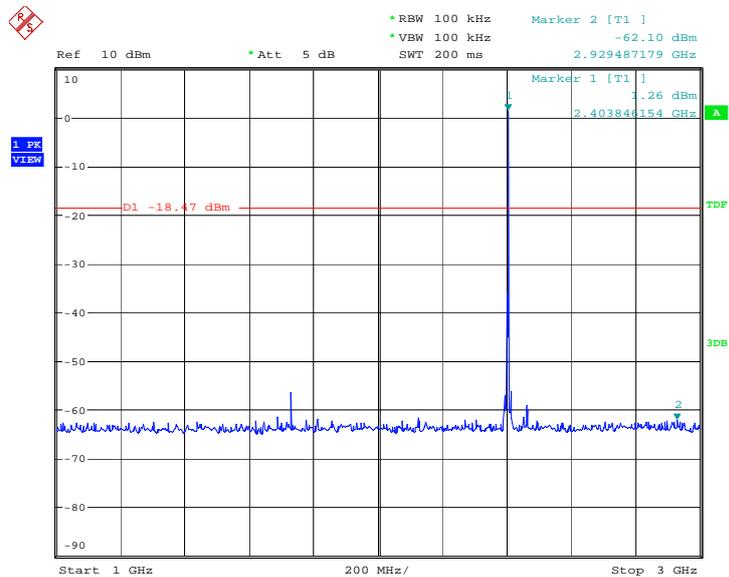
Date: 15.JUN.2011 09:21:32

Fig.13. Conducted spurious emission: GFSK, Channel 0,2402MHz



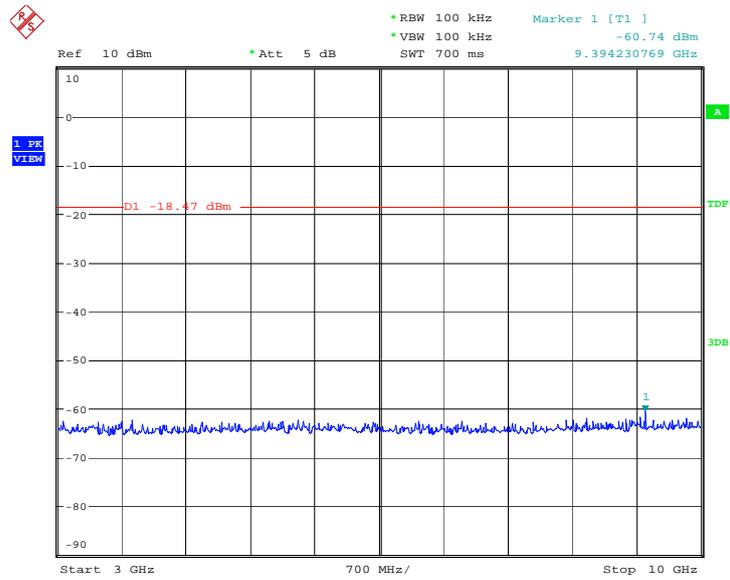
Date: 15.JUN.2011 09:21:48

Fig.14. Conducted spurious emission: GFSK, Channel 0, 30MHz - 1GHz



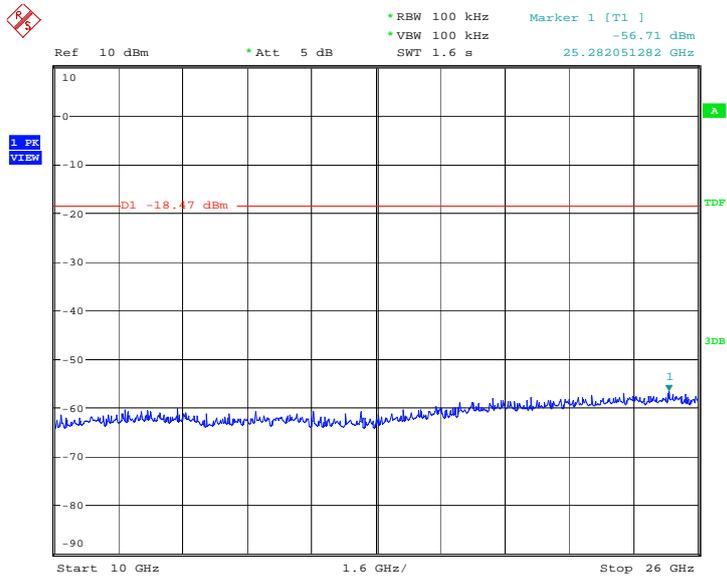
Date: 15.JUN.2011 09:22:20

Fig.15. Conducted spurious emission: GFSK, Channel 0, 1GHz - 3GHz



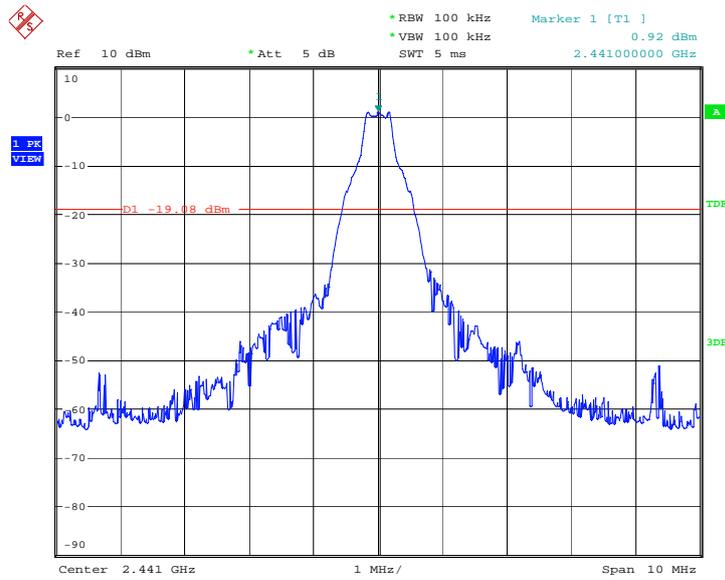
Date: 15.JUN.2011 09:22:37

Fig.16. Conducted spurious emission: GFSK, Channel 0, 3GHz - 10GHz



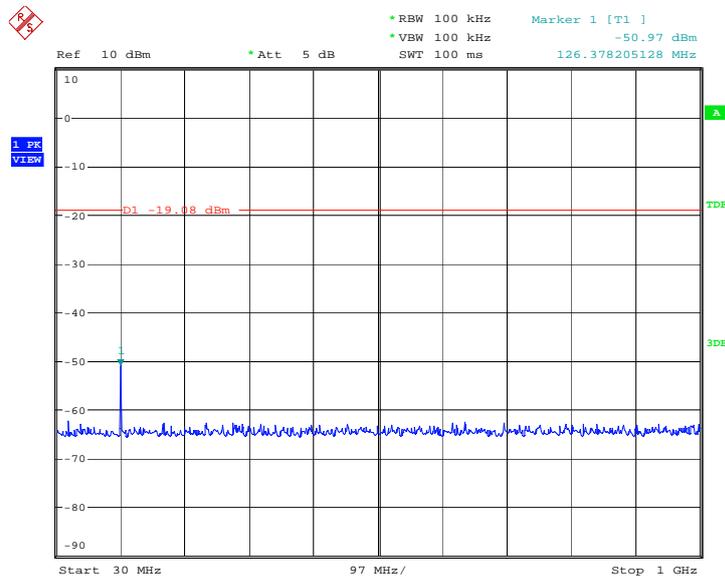
Date: 15.JUN.2011 09:22:53

Fig.17. Conducted spurious emission: GFSK, Channel 0, 10GHz - 26GHz



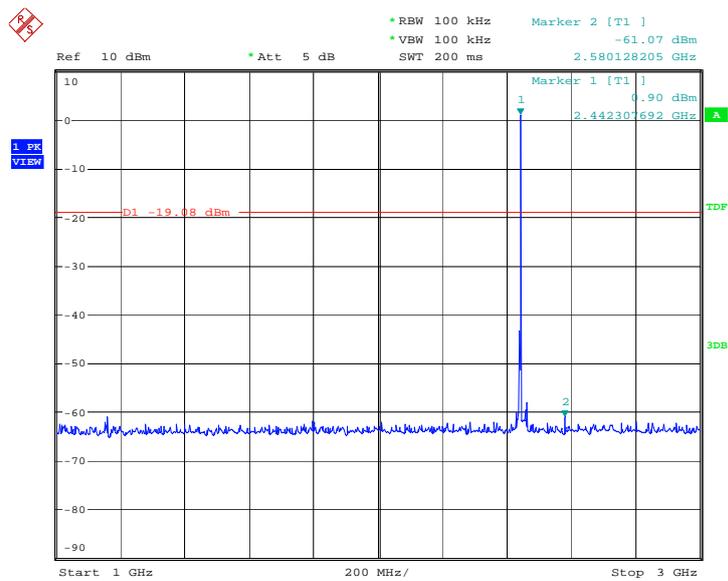
Date: 15.JUN.2011 09:23:10

Fig.18. Conducted spurious emission: GFSK, Channel 39, 2441MHz



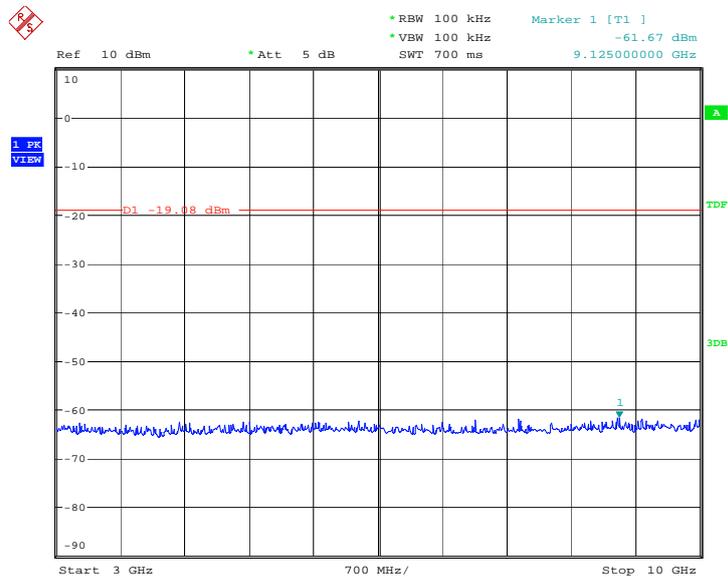
Date: 15.JUN.2011 09:23:27

Fig.19. Conducted spurious emission: GFSK, Channel 39, 30MHz - 1GHz



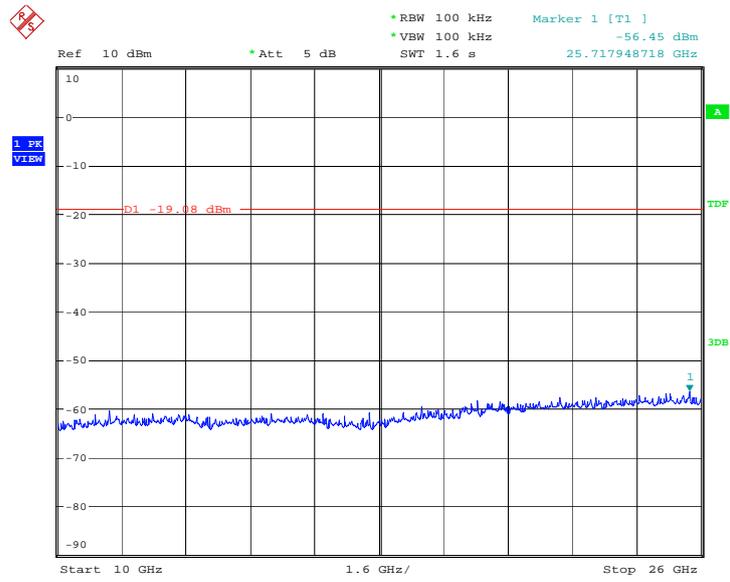
Date: 15.JUN.2011 09:23:58

Fig.20. Conducted spurious emission: GFSK, Channel 39, 1GHz – 3GHz



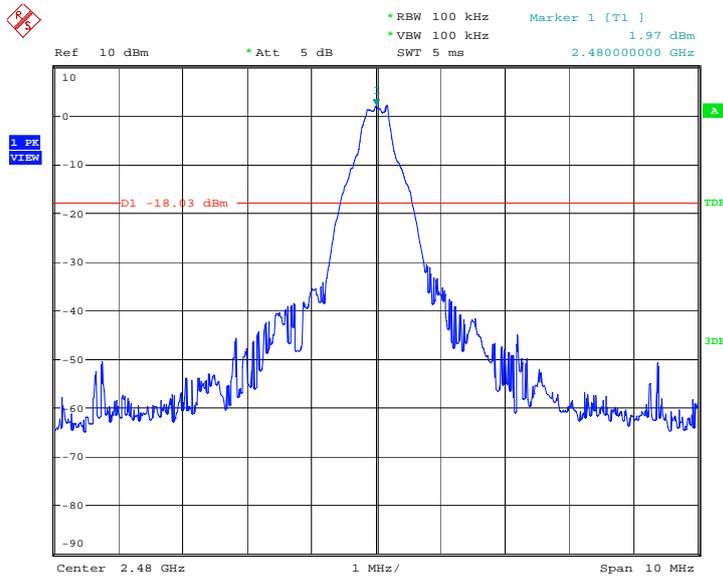
Date: 15.JUN.2011 09:24:15

Fig.21. Conducted spurious emission: GFSK, Channel 39, 3GHz – 10GHz



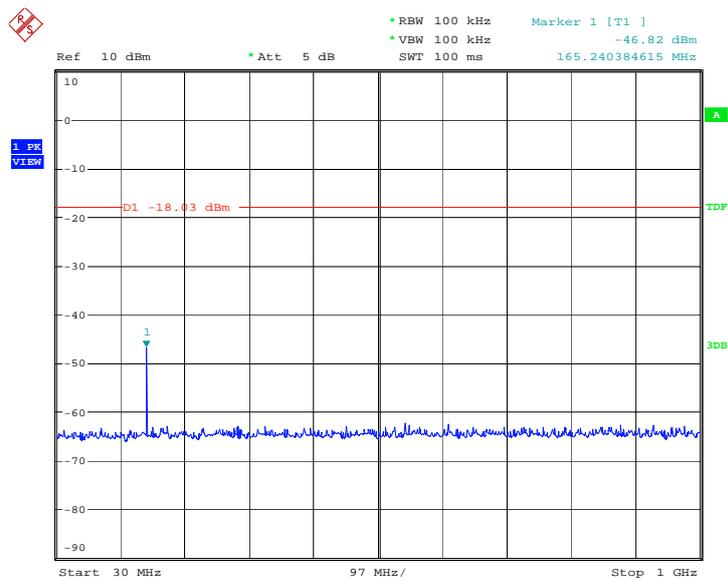
Date: 15.JUN.2011 09:24:32

Fig.22. Conducted spurious emission: GFSK, Channel 39, 10GHz – 26GHz



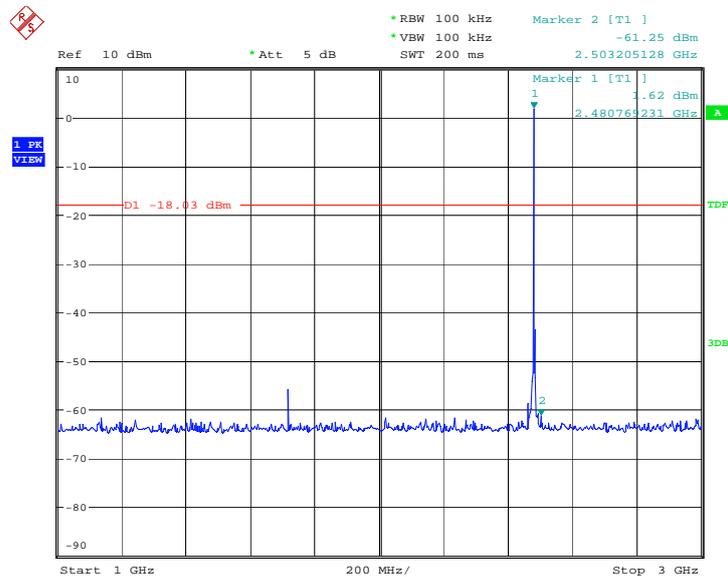
Date: 15.JUN.2011 09:24:48

Fig.23. Conducted spurious emission: GFSK, Channel 78, 2480MHz



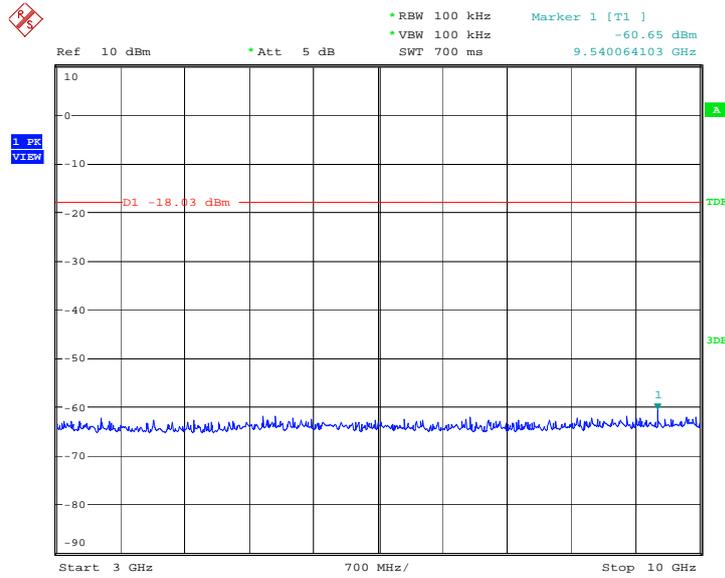
Date: 15.JUN.2011 09:25:05

Fig.24. Conducted spurious emission: GFSK, Channel 78, 30MHz - 1GHz



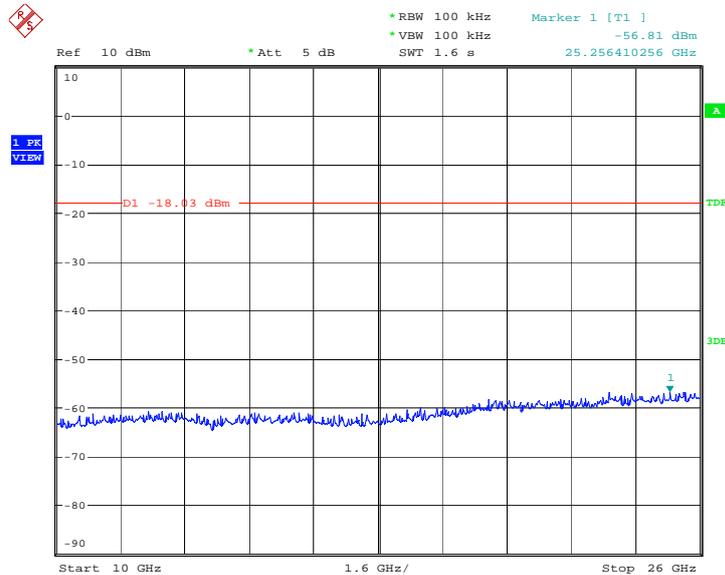
Date: 15.JUN.2011 09:25:37

Fig.25. Conducted spurious emission: GFSK, Channel 78, 1GHz - 3GHz



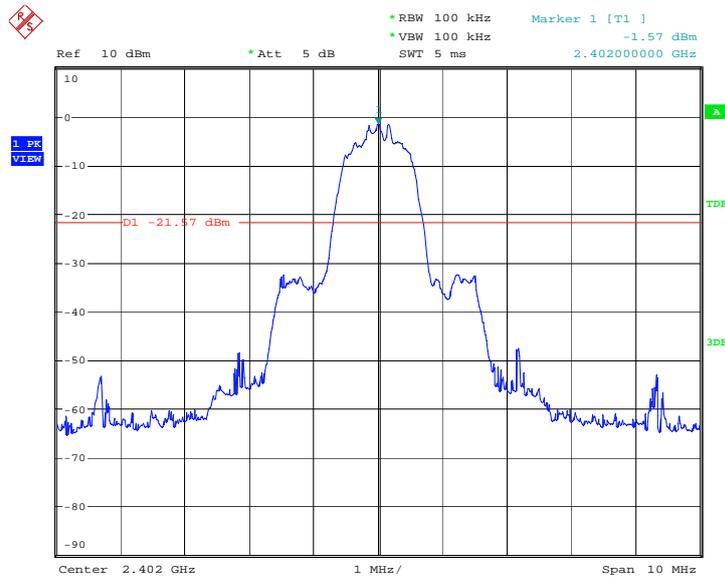
Date: 15.JUN.2011 09:25:53

Fig.26. Conducted spurious emission: GFSK, Channel 78, 3GHz - 10GHz



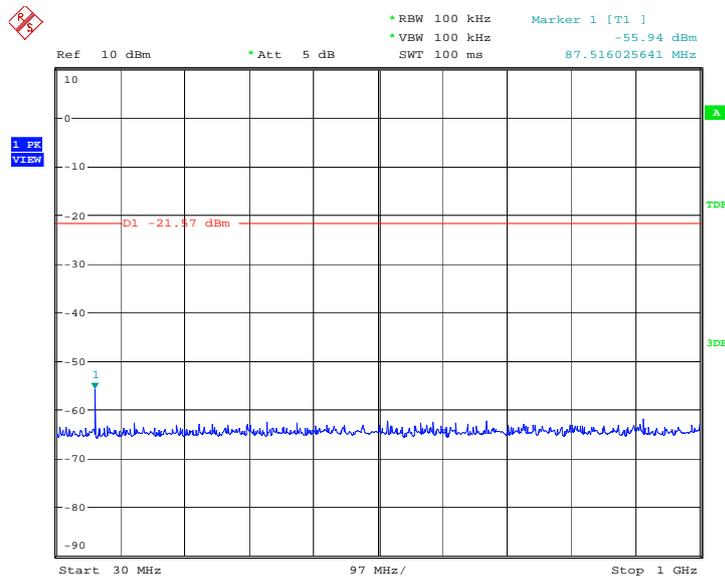
Date: 15.JUN.2011 09:26:10

Fig.27. Conducted spurious emission: GFSK, Channel 78, 10GHz - 26GHz



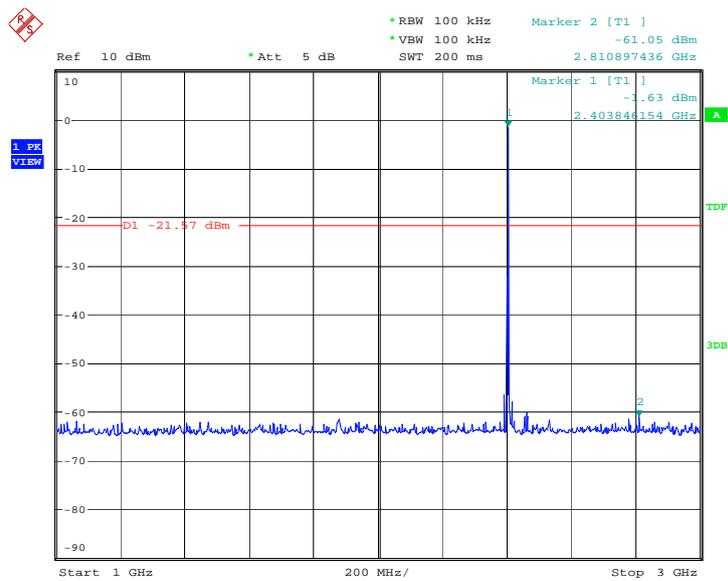
Date: 15.JUN.2011 09:43:38

Fig.28. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0,2402MHz



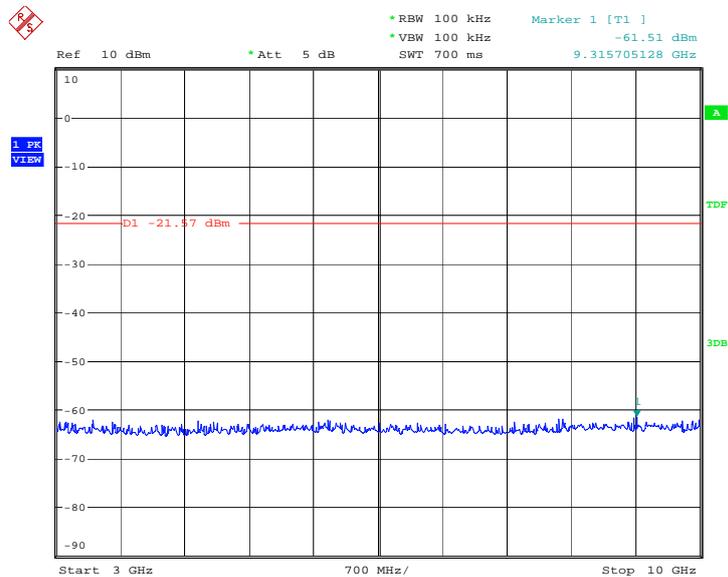
Date: 15.JUN.2011 09:43:54

Fig.29. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 30MHz - 1GHz



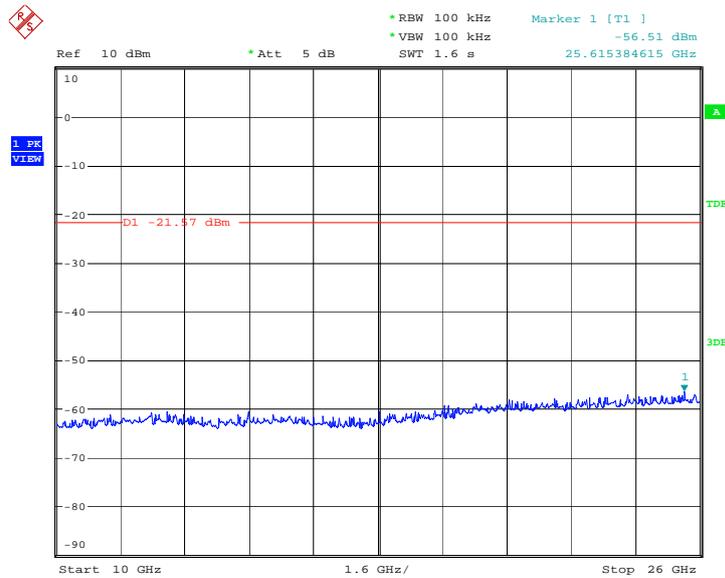
Date: 15.JUN.2011 09:44:26

Fig.30. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 1GHz - 3GHz



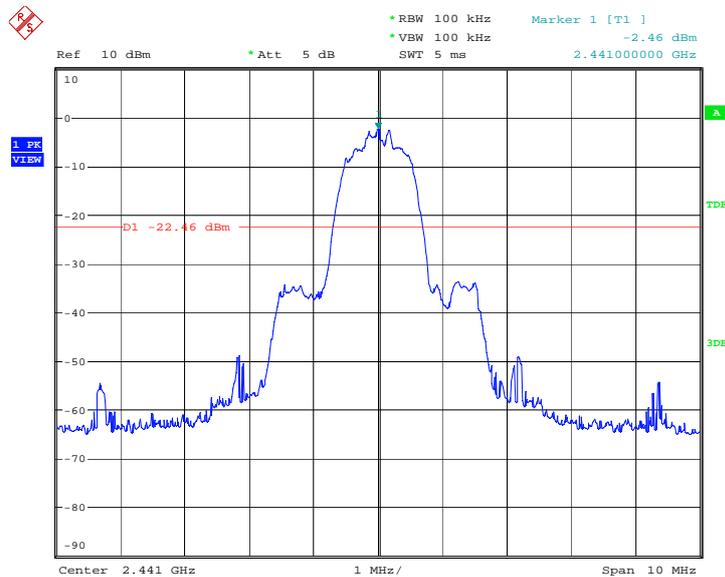
Date: 15.JUN.2011 09:44:43

Fig.31. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 3GHz - 10GHz



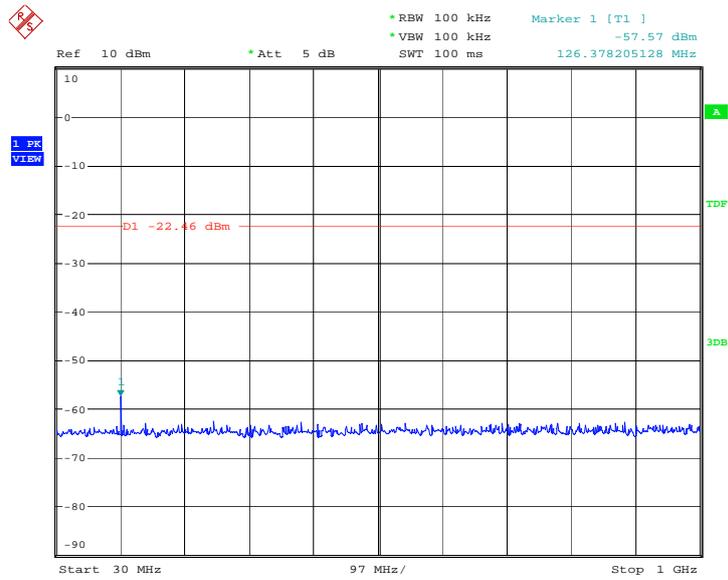
Date: 15.JUN.2011 09:44:59

Fig.32. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 10GHz - 26GHz



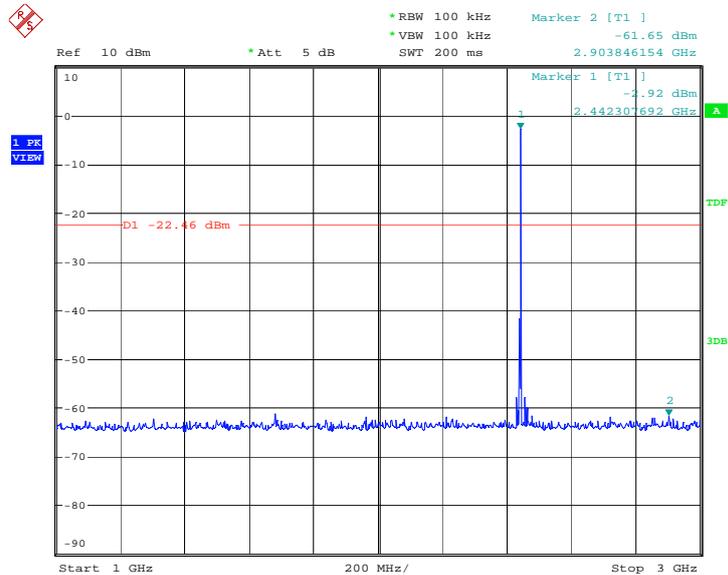
Date: 15.JUN.2011 09:45:16

Fig.33. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 2441MHz



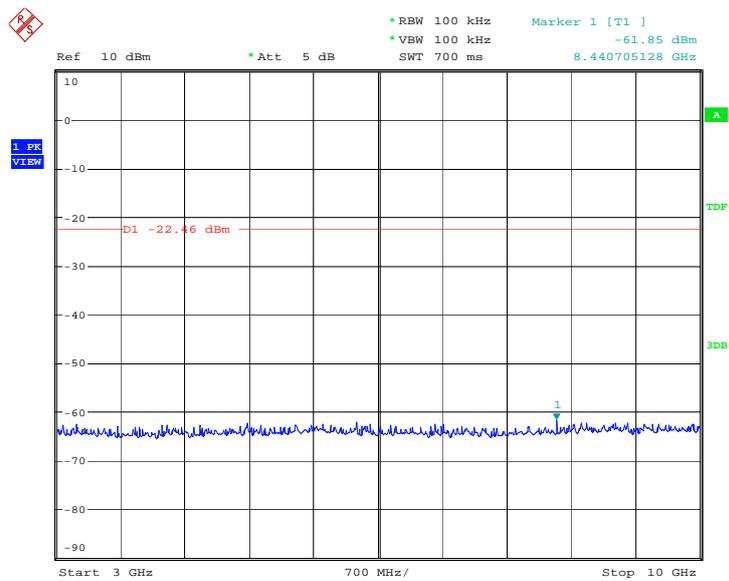
Date: 15.JUN.2011 09:45:33

Fig.34. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 30MHz - 1GHz



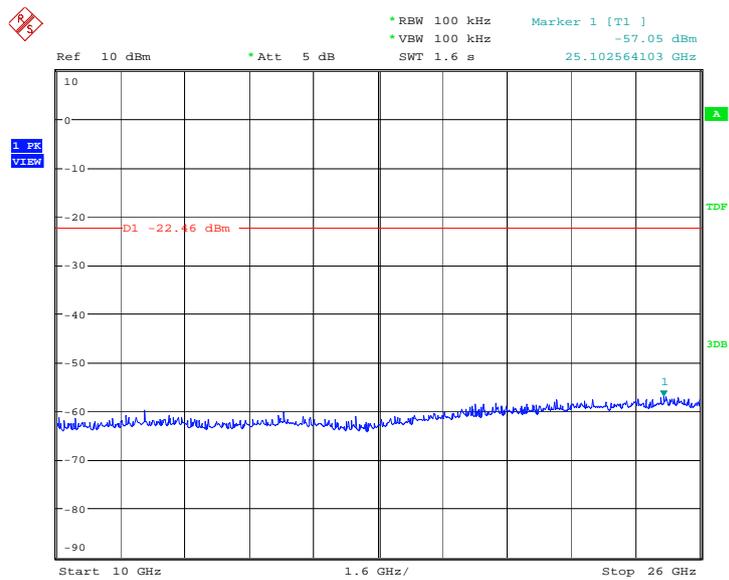
Date: 15.JUN.2011 09:46:05

Fig.35. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 1GHz - 3GHz



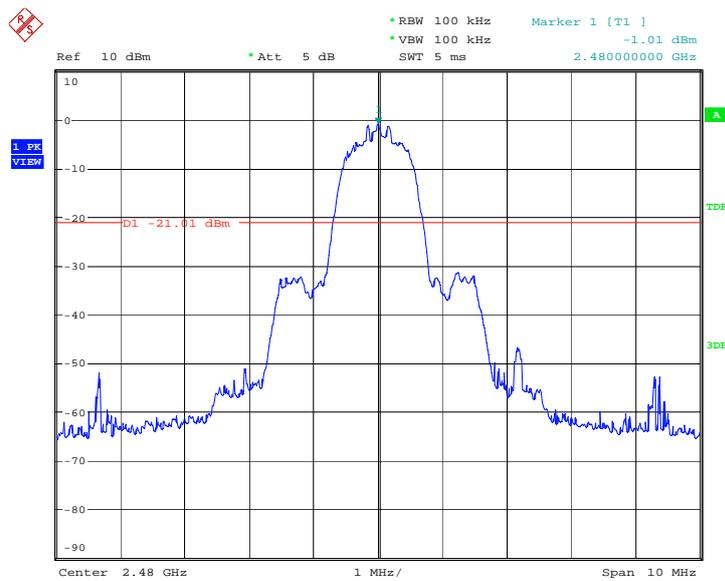
Date: 15.JUN.2011 09:46:21

Fig.36. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 3GHz - 10GHz



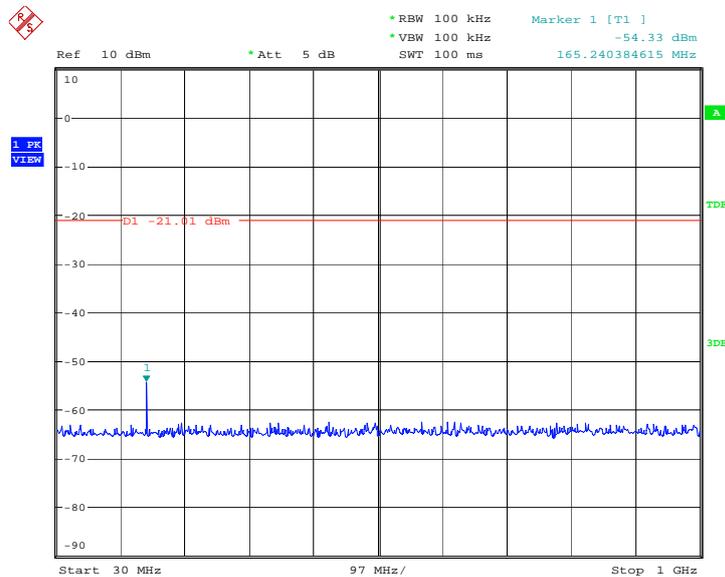
Date: 15.JUN.2011 09:46:38

Fig.37. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 10GHz – 26GHz



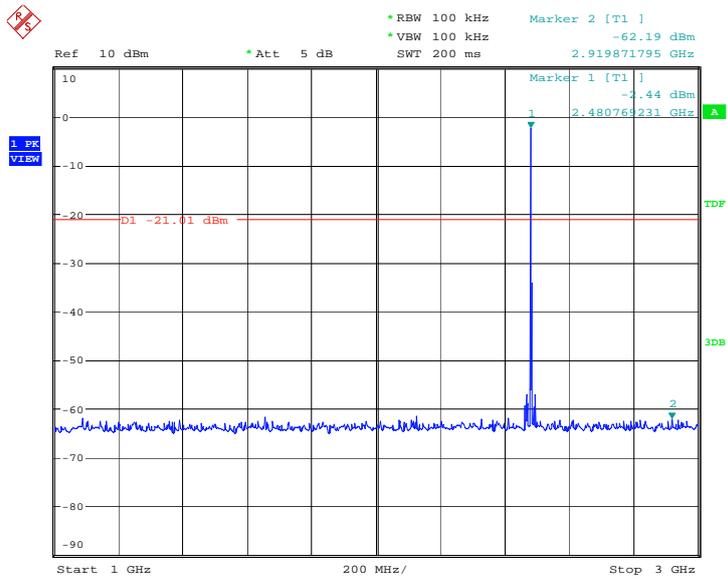
Date: 15.JUN.2011 09:46:55

Fig.38. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 2480MHz



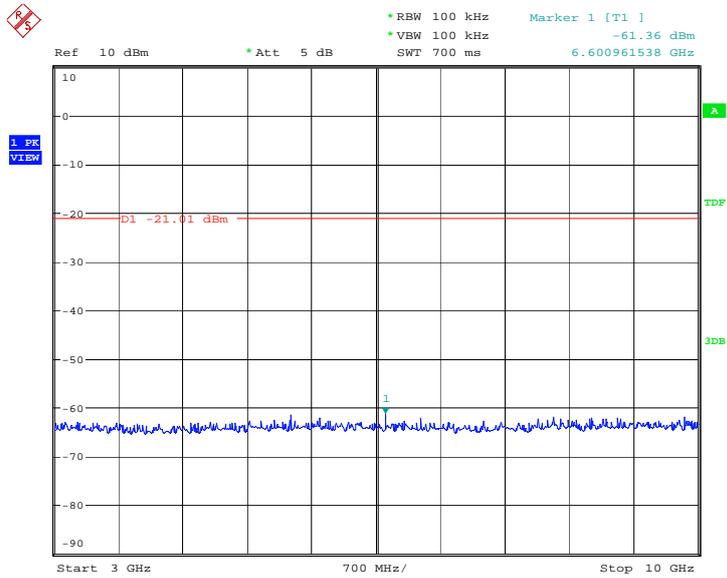
Date: 15.JUN.2011 09:47:11

Fig.39. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 30MHz - 1GHz



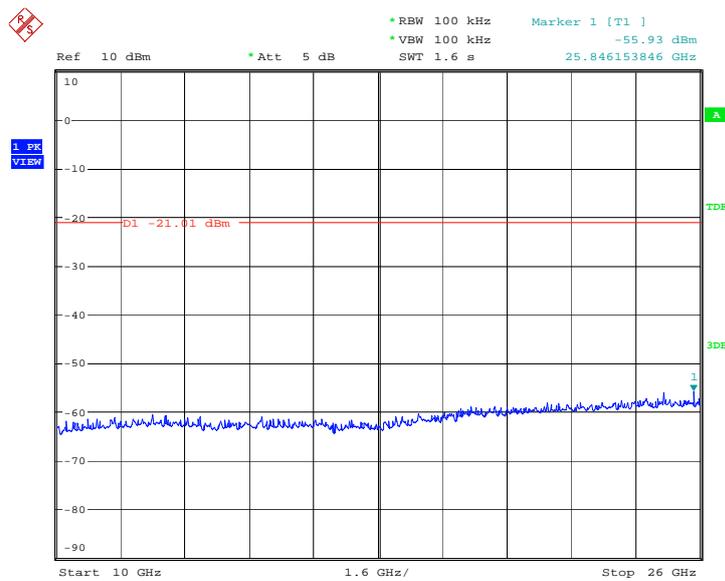
Date: 15.JUN.2011 09:47:43

Fig.40. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 1GHz - 3GHz



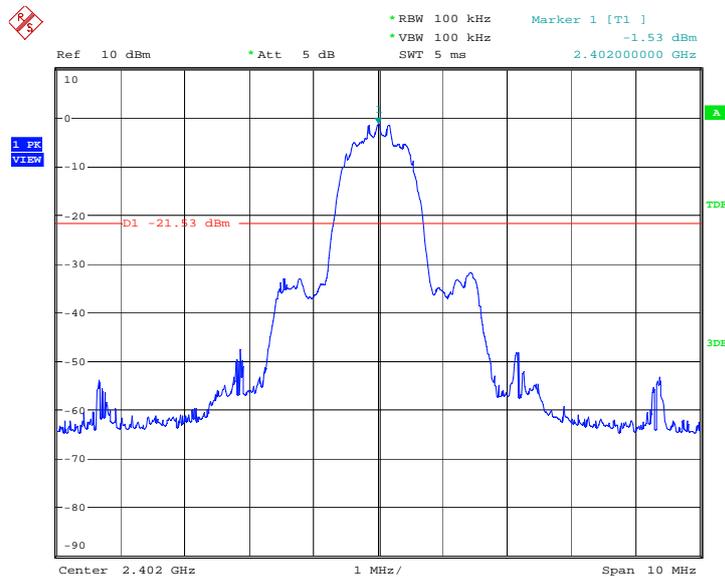
Date: 15.JUN.2011 09:48:00

Fig.41. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 3GHz - 10GHz



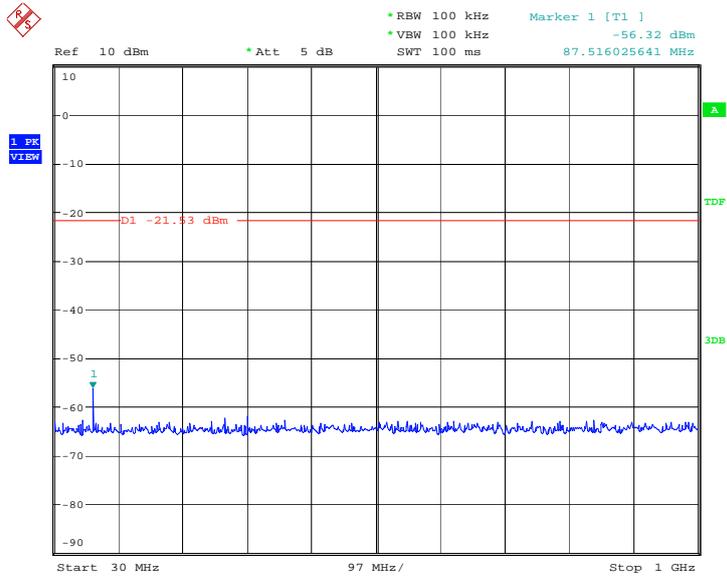
Date: 15.JUN.2011 09:48:16

Fig.42. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 10GHz - 26GHz



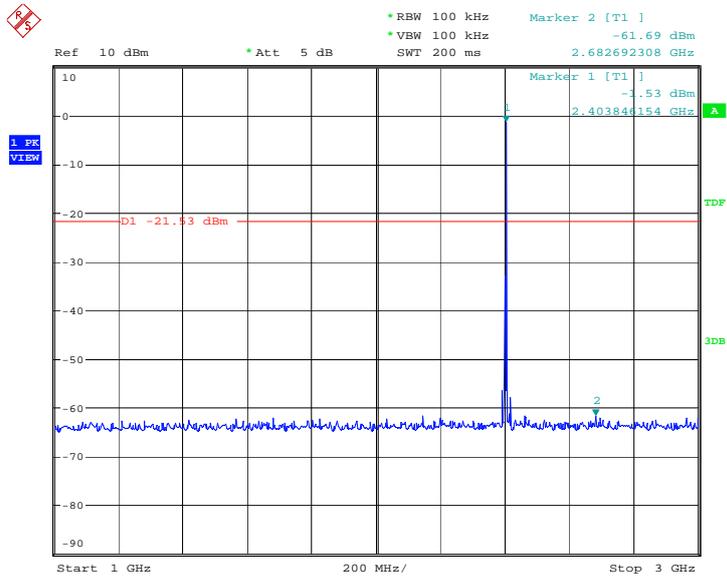
Date: 15.JUN.2011 10:05:41

Fig.43. Conducted spurious emission: 8DPSK, Channel 0,2402MHz



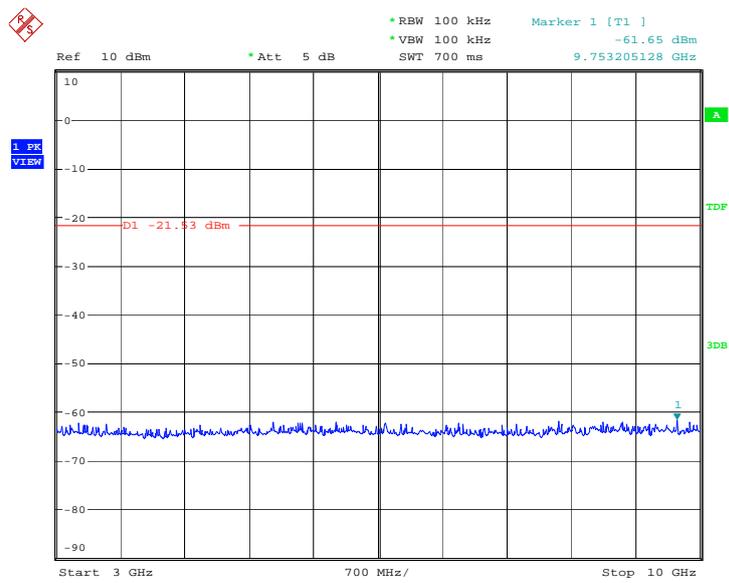
Date: 15.JUN.2011 10:05:57

Fig.44. Conducted spurious emission: 8DPSK, Channel 0, 30MHz - 1GHz



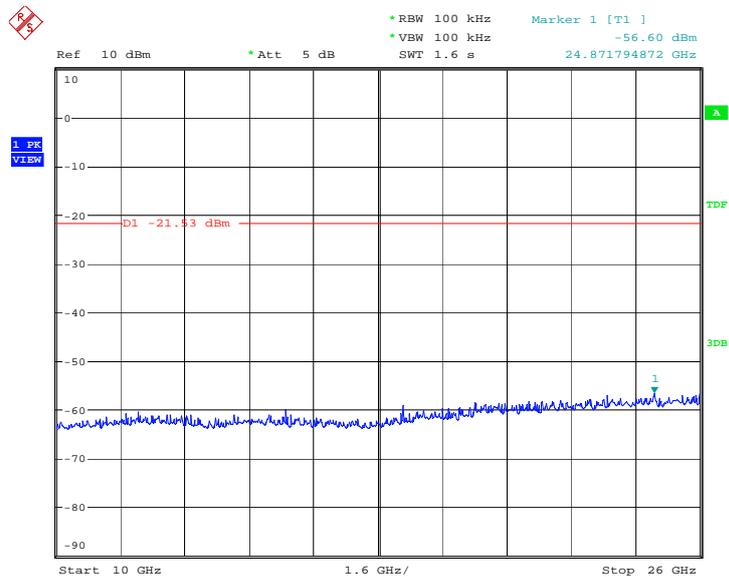
Date: 15.JUN.2011 10:06:29

Fig.45. Conducted spurious emission: 8DPSK, Channel 0, 1GHz - 3GHz



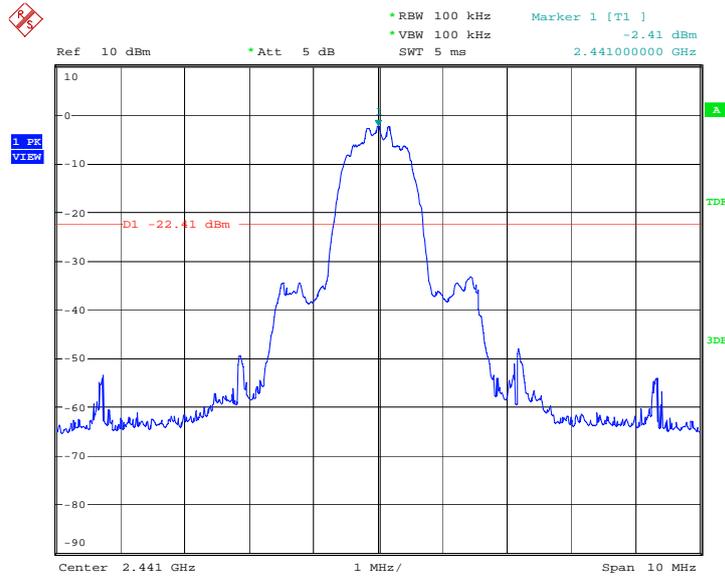
Date: 15.JUN.2011 10:06:46

Fig.46. Conducted spurious emission: 8DPSK, Channel 0, 3GHz - 10GHz



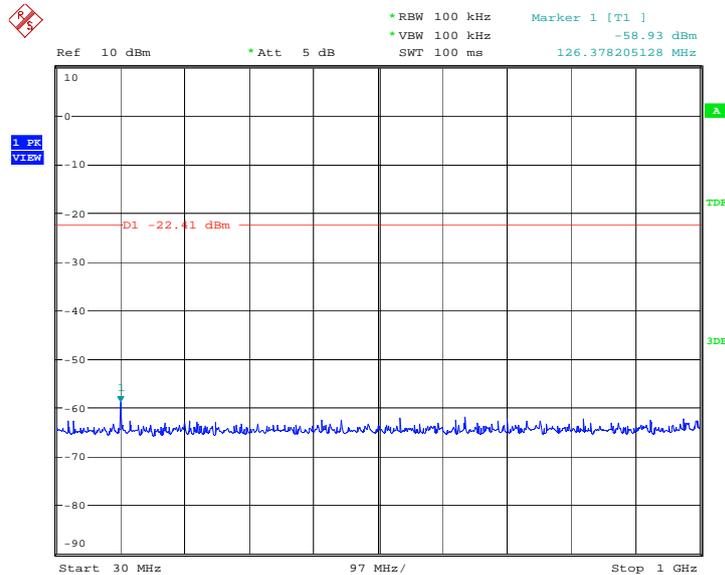
Date: 15.JUN.2011 10:07:02

Fig.47. Conducted spurious emission: 8DPSK, Channel 0, 10GHz - 26GHz



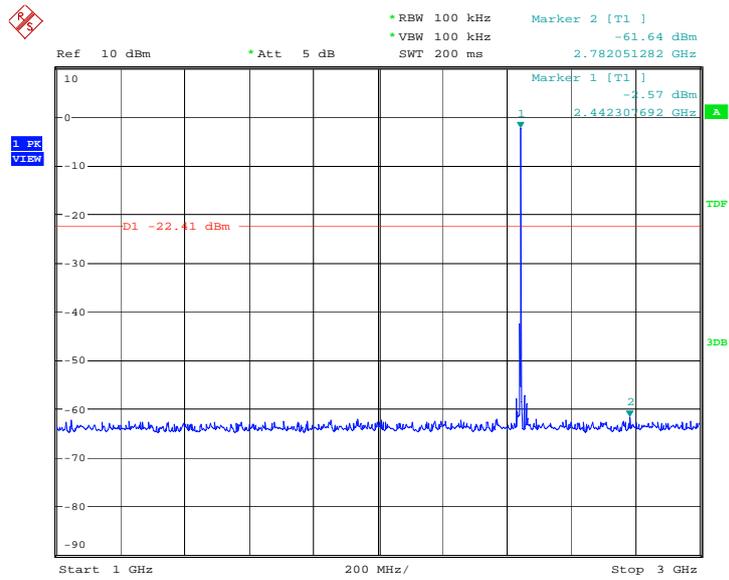
Date: 15.JUN.2011 10:07:19

Fig.48. Conducted spurious emission: 8DPSK, Channel 39, 2441MHz



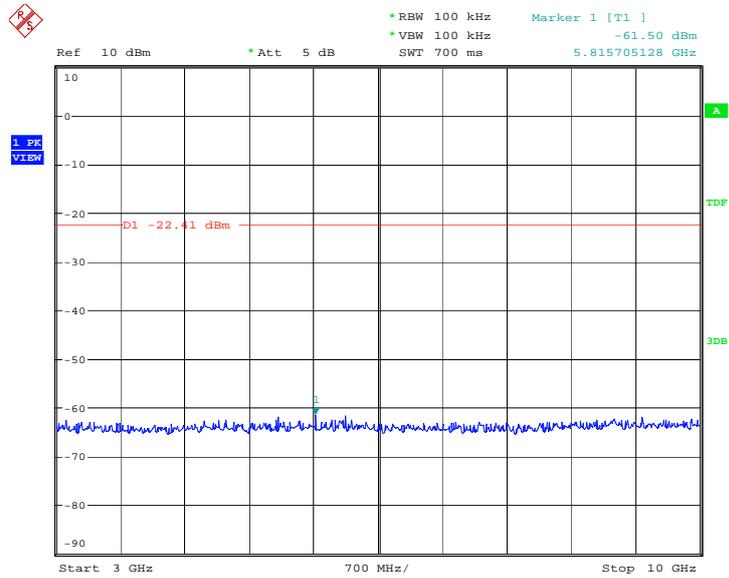
Date: 15.JUN.2011 10:07:36

Fig.49. Conducted spurious emission: 8DPSK, Channel 39, 30MHz - 1GHz



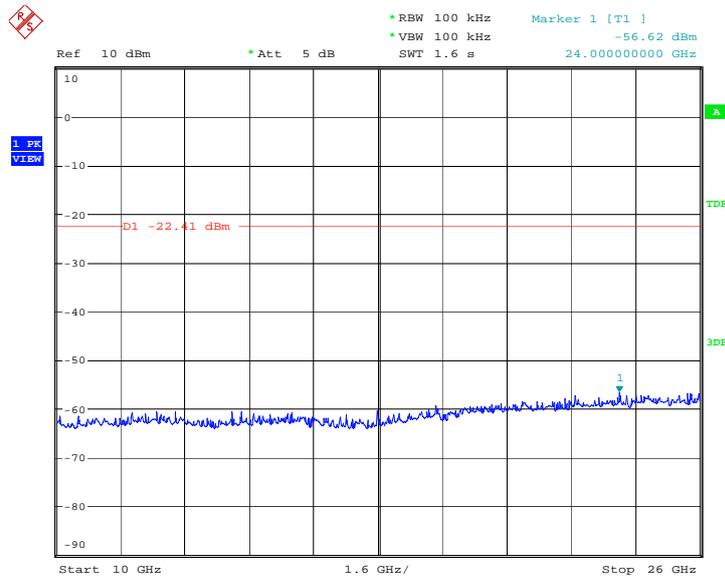
Date: 15.JUN.2011 10:08:07

Fig.50. Conducted spurious emission: 8DPSK, Channel 39, 1GHz - 3GHz



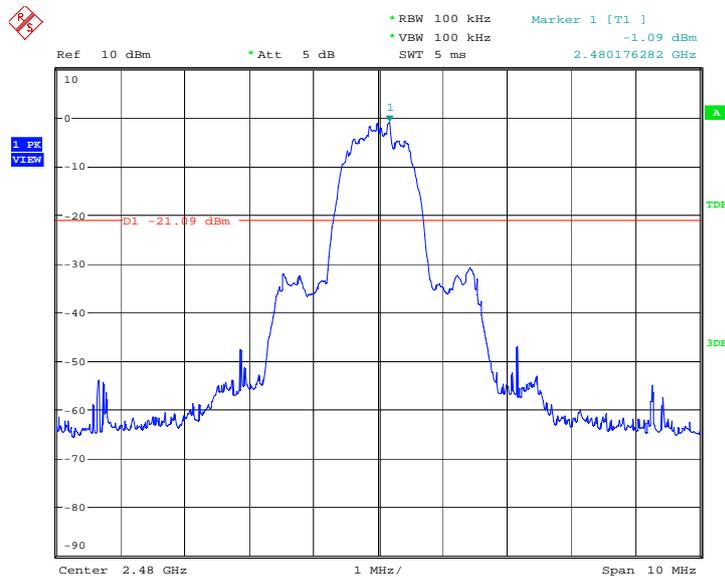
Date: 15.JUN.2011 10:08:24

Fig.51. Conducted spurious emission: 8DPSK, Channel 39, 3GHz - 10GHz



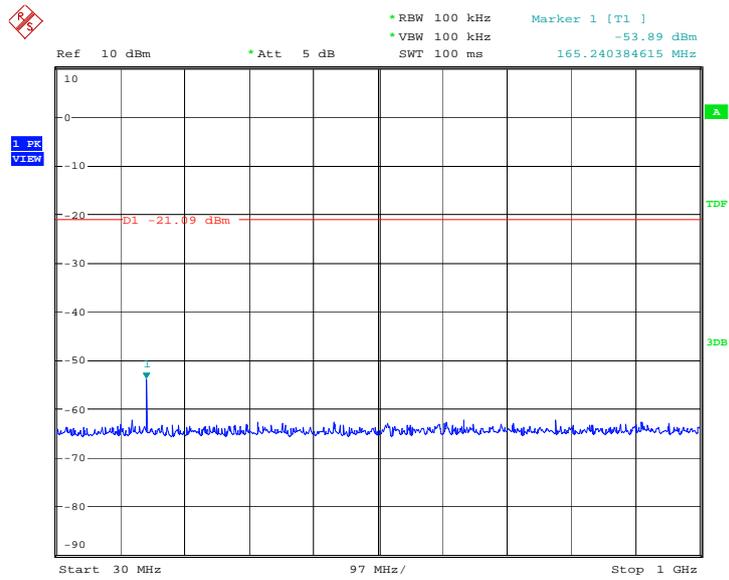
Date: 15.JUN.2011 10:08:40

Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz – 26GHz



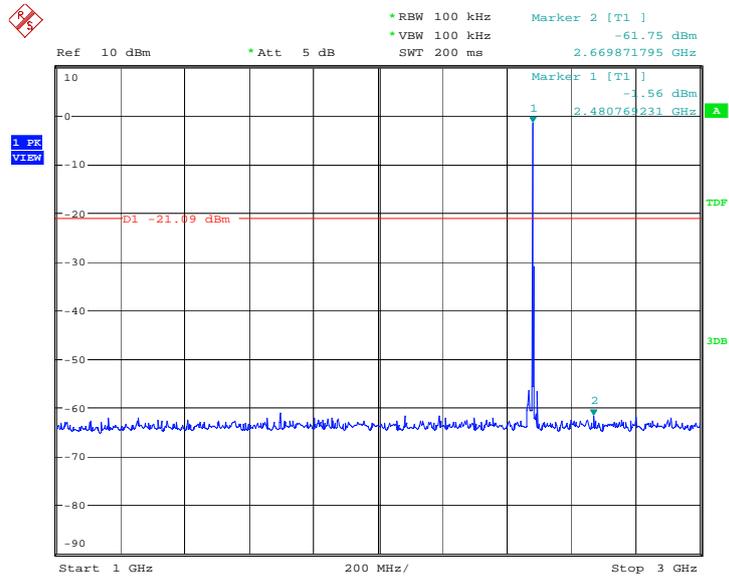
Date: 15.JUN.2011 10:08:57

Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz



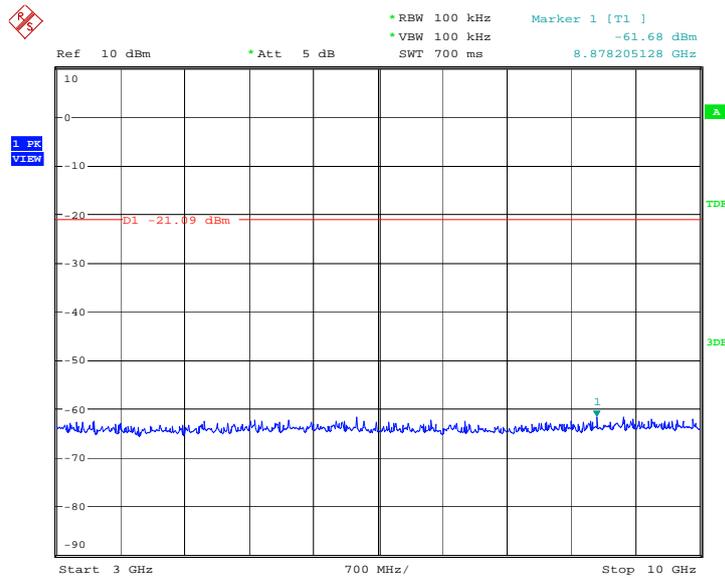
Date: 15.JUN.2011 10:09:14

Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz



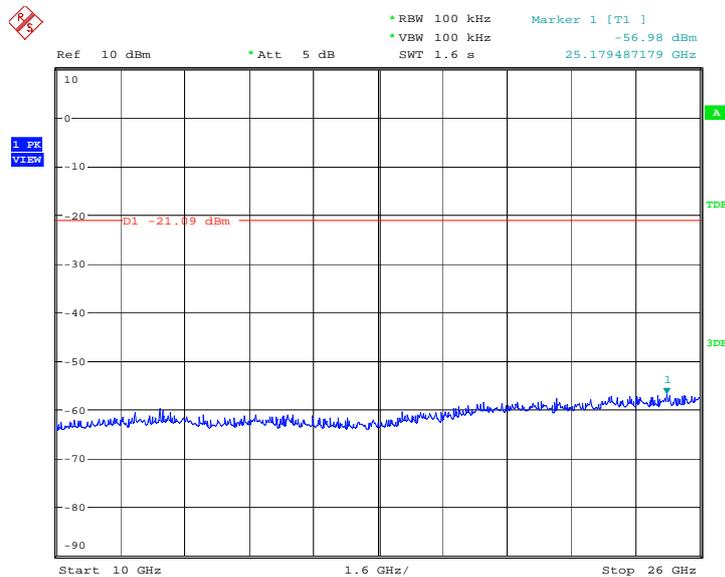
Date: 15.JUN.2011 10:09:46

Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz



Date: 15.JUN.2011 10:10:02

Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz



Date: 15.JUN.2011 10:10:19

Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 26GHz

A.5. Radiated Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209, 15.109/ RSS-210 A8.5	20dB below peak output power

In addition, 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 measurement is made according to Public notice DA 00-705 and ANSI C63.4

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Condition:

The measurement frequency range is from 30 MHz to 26 GHz. The measurement set-up is as follows:

Frequency range	Detector	Antenna Type	IF Bandwidth (RBW)	Video Bandwidth
30 MHz – 1 GHz	Peak	Bi-Log	100 kHz	300 kHz
1 GHz - 18 GHz	Peak	Waveguide Horn	1 MHz	1 MHz
18 GHz – 26 GHz	Peak	Waveguide Horn	1 MHz	1 MHz

Measurement Results:

EUT ID:N19

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.58	P
	1 GHz ~ 4 GHz	Fig.59	P
	4 GHz ~ 18 GHz	Fig.60	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.61	P
	1 GHz ~ 4 GHz	Fig.62	P
	4 GHz ~ 18 GHz	Fig.63	P
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.64	P
	1 GHz ~ 4 GHz	Fig.65	P
	4 GHz ~ 18 GHz	Fig.66	P
Power	2.38GHz~2.4GHz---L	Fig.67	P
Power	2.45GHz~2.5GHz---H	Fig.68	P
For all channels	18 GHz ~ 26 GHz	Fig.69	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
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Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.70	P
	1 GHz ~ 4 GHz	Fig.71	P
	4 GHz ~ 18 GHz	Fig.72	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.73	P
	1 GHz ~ 4 GHz	Fig.74	P
	4 GHz ~ 18 GHz	Fig.75	P
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.76	P
	1 GHz ~ 4 GHz	Fig.77	P
	4 GHz ~ 18 GHz	Fig.78	P
Power	2.38GHz~2.4GHz---L	Fig.79	P
Power	2.45GHz~2.5GHz---H	Fig.80	P
For all channels	18 GHz ~ 26 GHz	Fig.81	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.82	P
	1 GHz ~ 4 GHz	Fig.83	P
	4 GHz ~ 18 GHz	Fig.84	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.85	P
	1 GHz ~ 4 GHz	Fig.86	P
	4 GHz ~ 18 GHz	Fig.87	P
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.88	P
	1 GHz ~ 4 GHz	Fig.89	P
	4 GHz ~ 18 GHz	Fig.90	P
Power	2.38GHz~2.4GHz---L	Fig.91	P
Power	2.45GHz~2.5GHz---H	Fig.92	P
For all channels	18 GHz ~ 26 GHz	Fig.93	P

The correction factors have been taken into account in the above test results

Measurement Uncertainty: $\pm 4.73\text{dB}$

Conclusion: PASS

Test graphs as below:

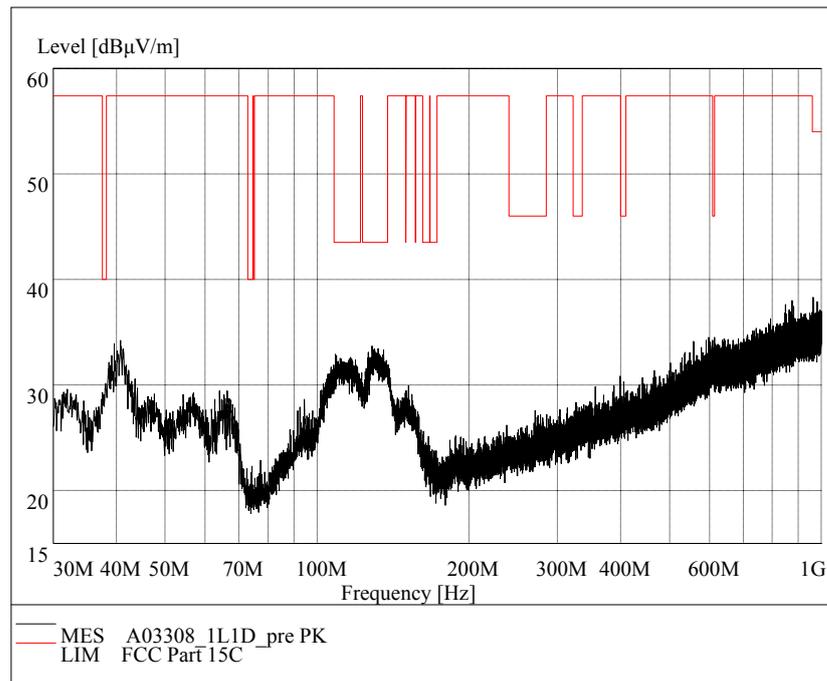


Fig.58. Radiated emission: GFSK, Channel 0, 30 MHz - 1 GHz

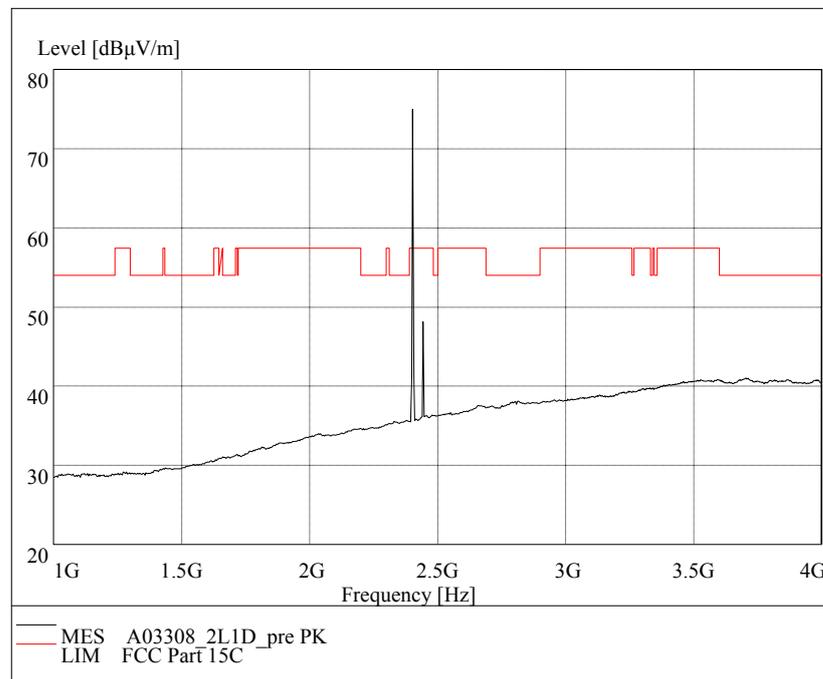


Fig.59. Radiated emission: GFSK, Channel 0, 1 GHz - 4 GHz

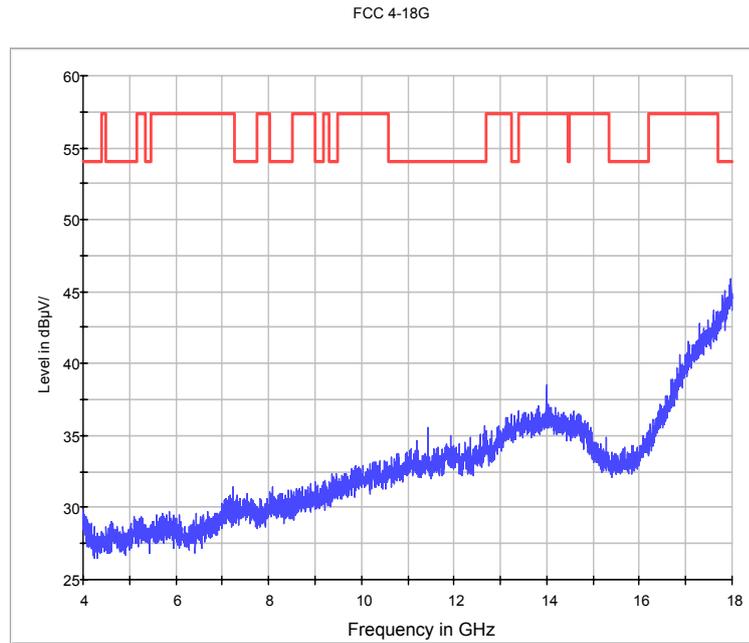


Fig.60. Radiated emission: GFSK, Channel 0, 4 GHz - 18 GHz

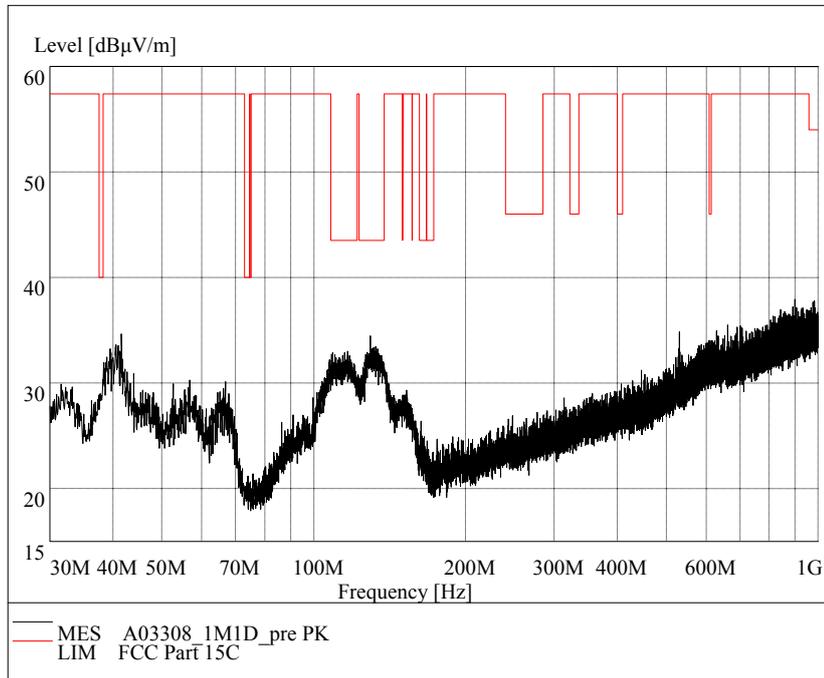


Fig.61. Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

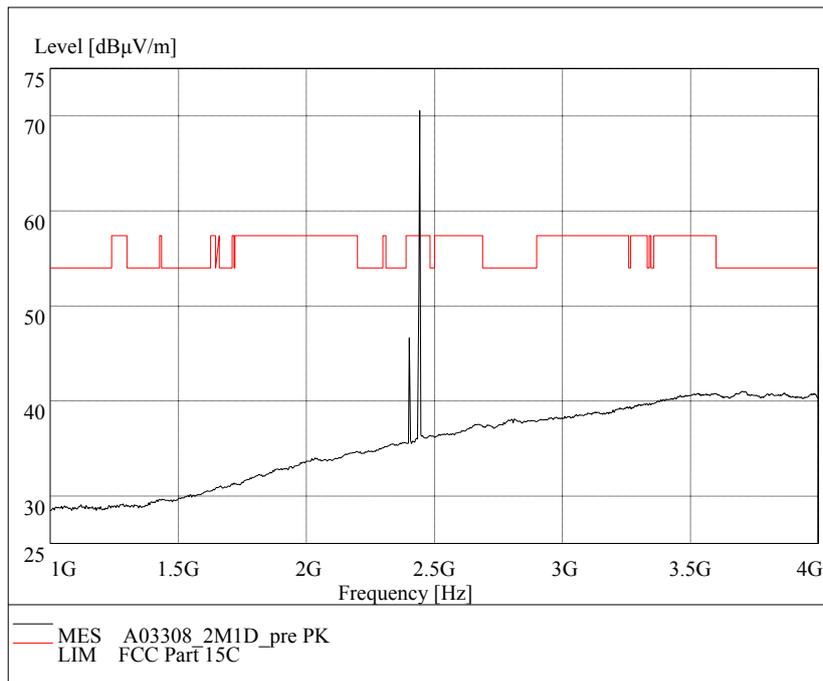


Fig.62. Radiated emission: GFSK, Channel 39, 1 GHz - 4 GHz

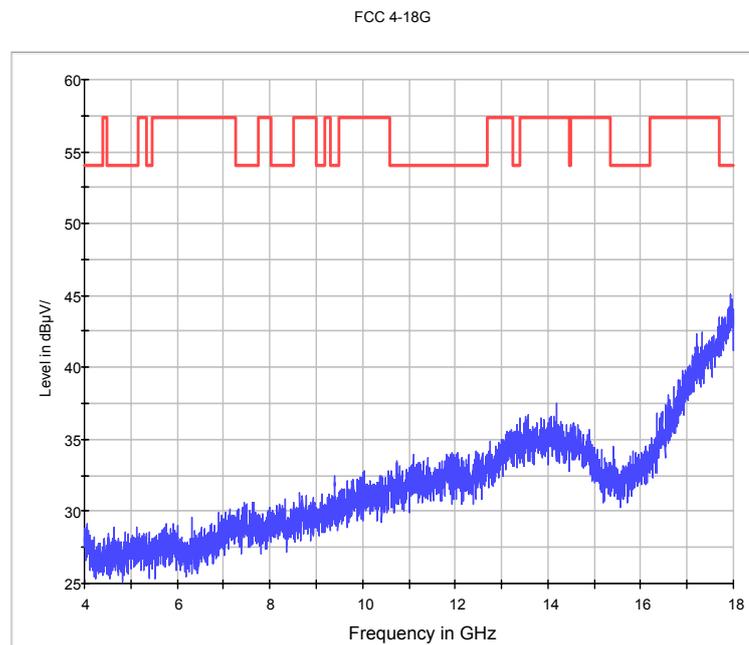


Fig.63. Radiated emission: GFSK, Channel 39, 4 GHz - 18 GHz

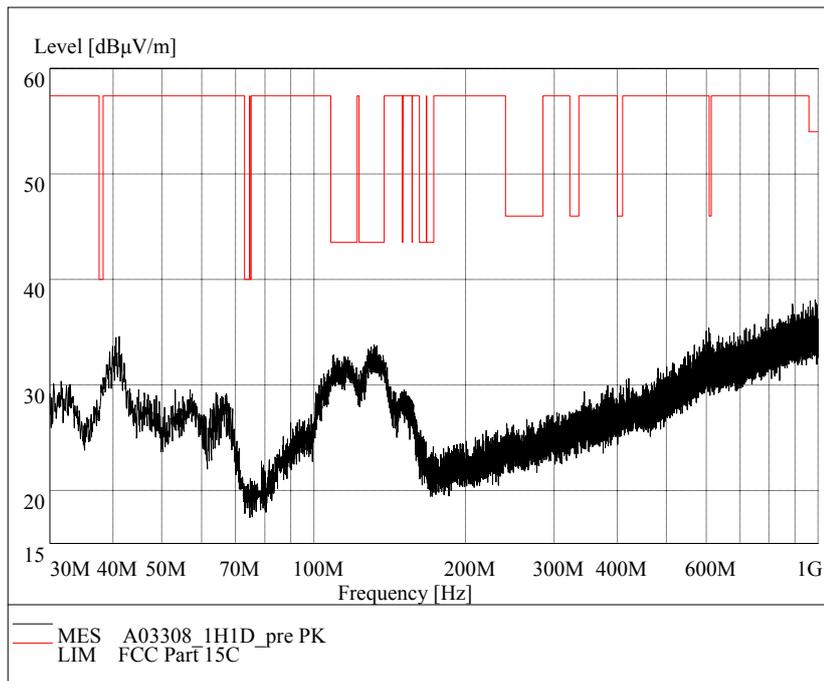


Fig.64. Radiated emission: GFSK, Channel 78, 30 MHz - 1 GHz

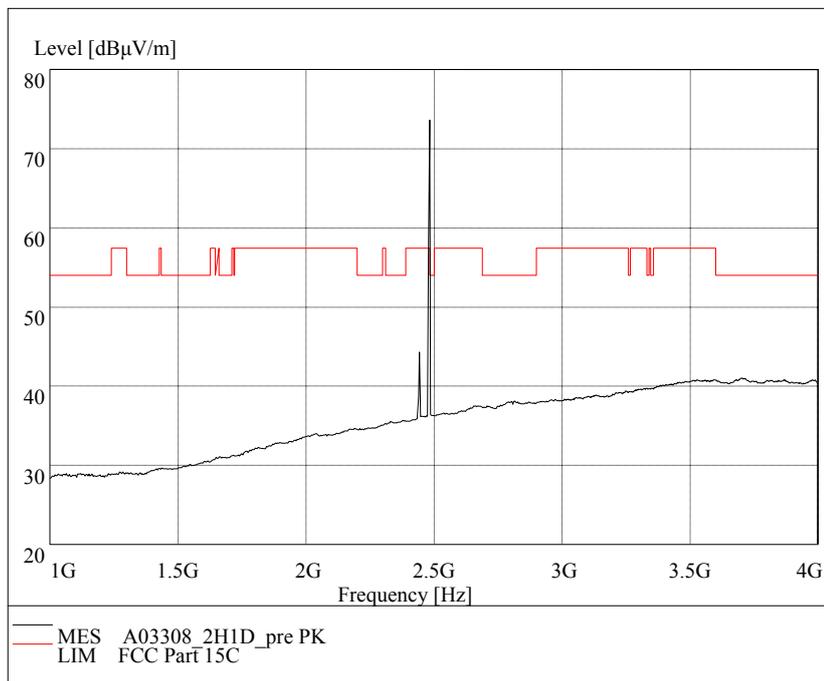


Fig.65. Fig.47 Radiated emission: GFSK, Channel 78, 1 GHz - 4 GHz

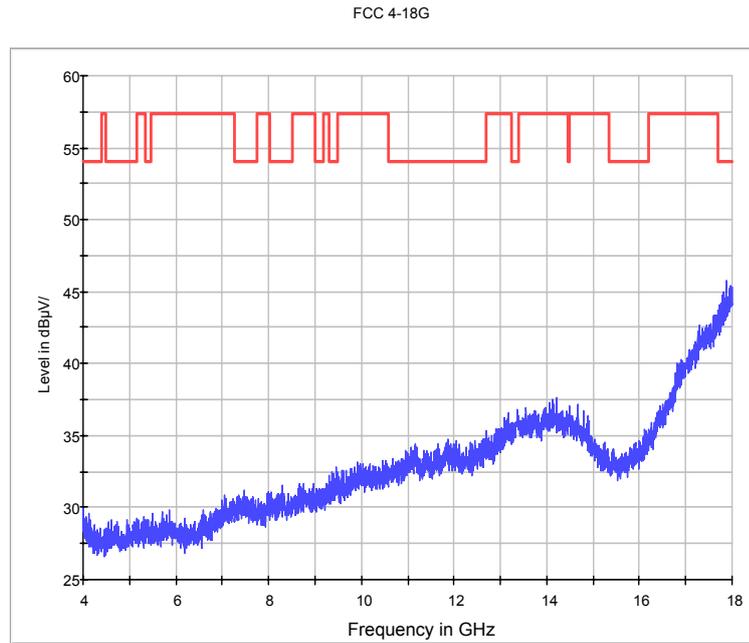


Fig.66. Radiated emission: GFSK, Channel 78, 4 GHz - 18 GHz

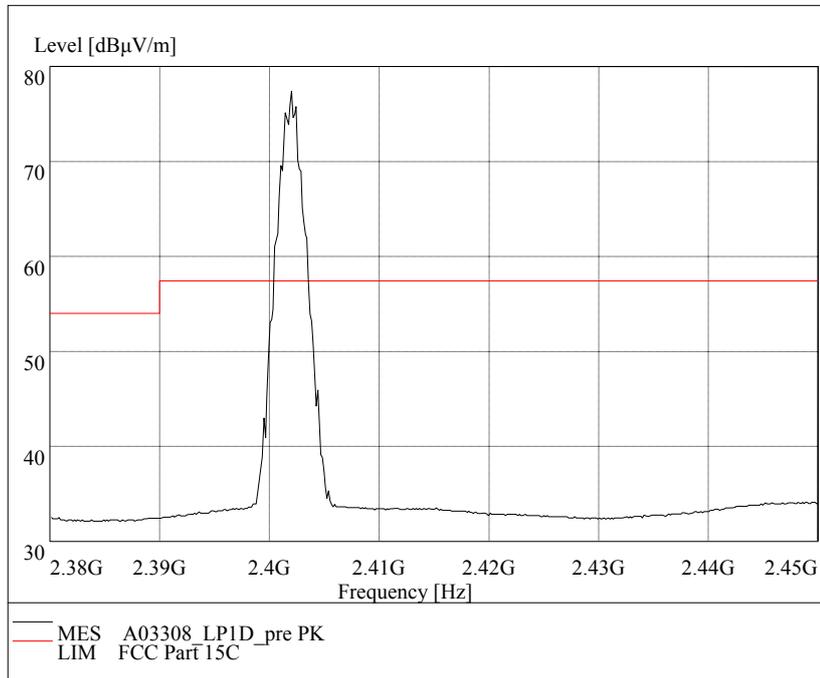


Fig.67. Radiated emission (Power): GFSK, low channel

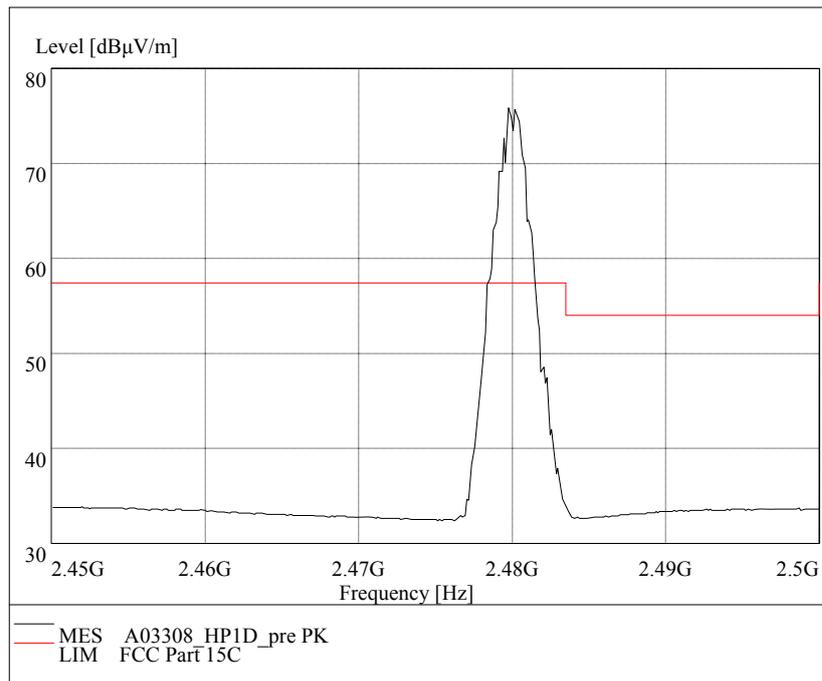


Fig.68. Radiated emission (Power) GFSK, high channel

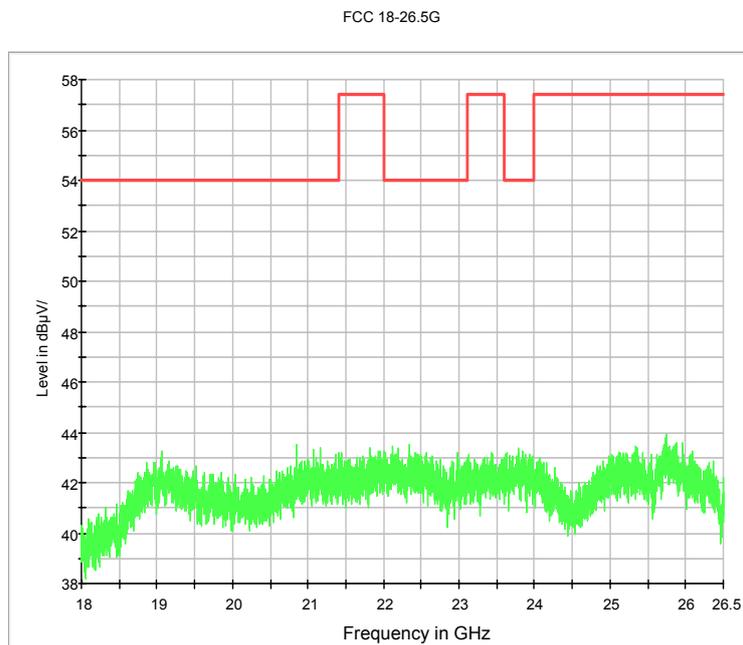


Fig.69. Radiated emission: GFSK, 18 GHz - 26 GHz

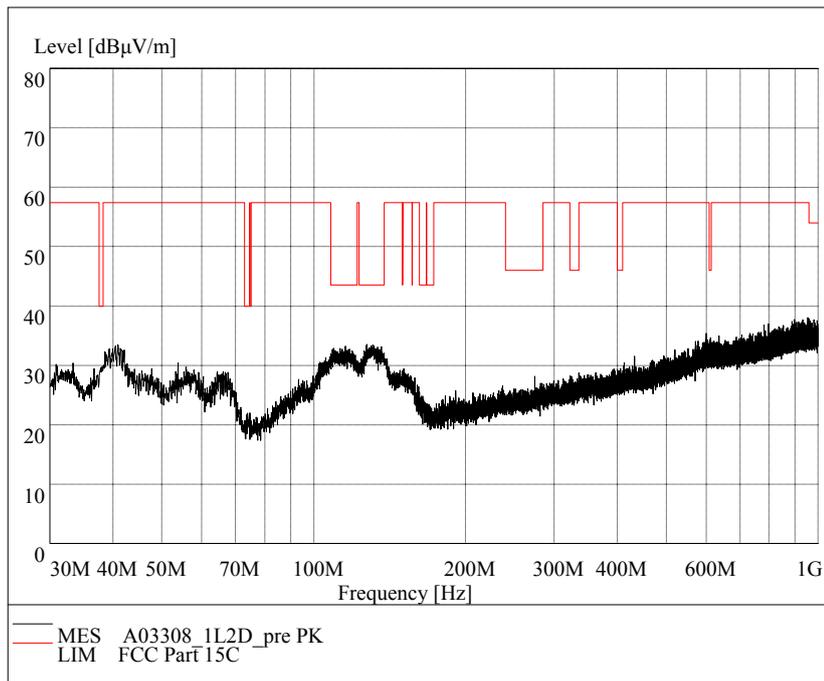


Fig.70. Radiated emission: $\pi/4$ DQPSK, Channel 0, 30 MHz - 1 GHz

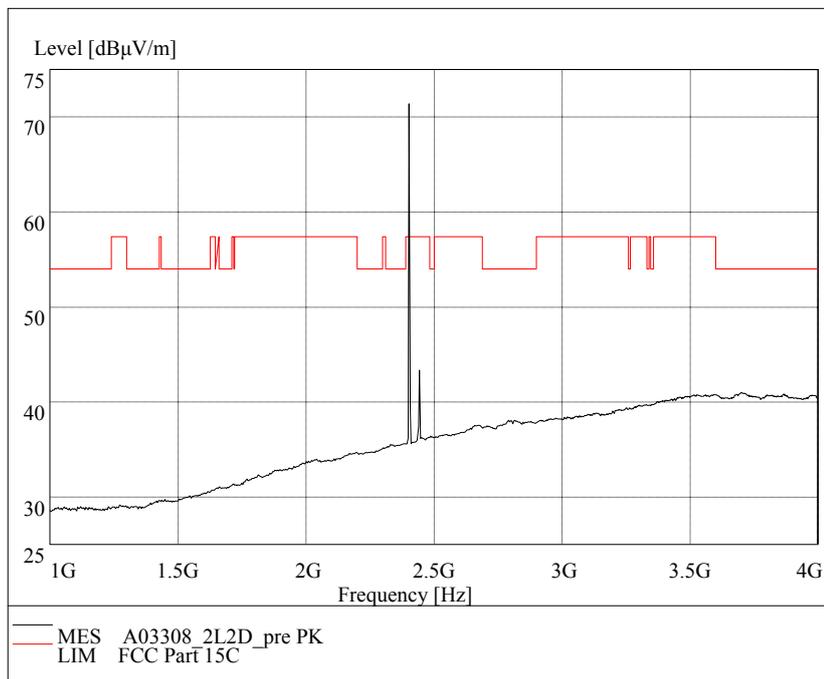


Fig.71. Radiated emission: $\pi/4$ DQPSK, Channel 0, 1 GHz - 4 GHz

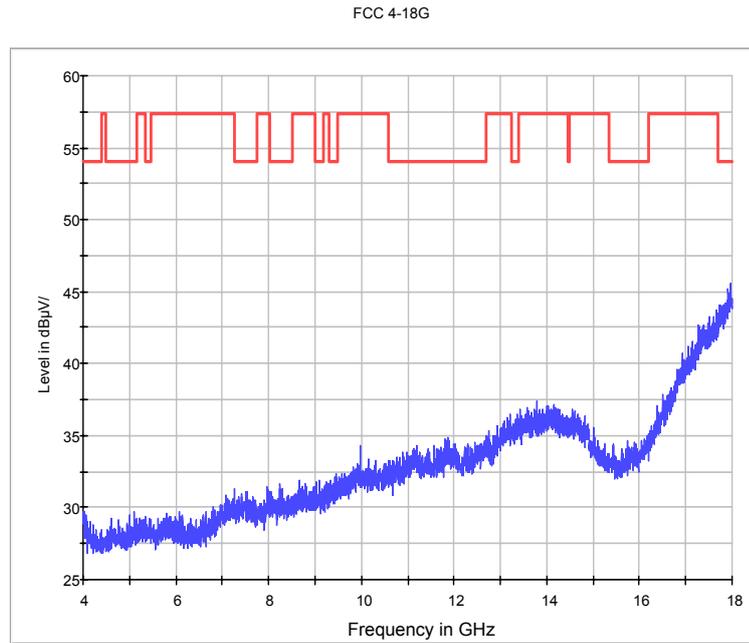


Fig.72. Radiated emission: $\pi/4$ DQPSK, Channel 0, 4 GHz - 18 GHz

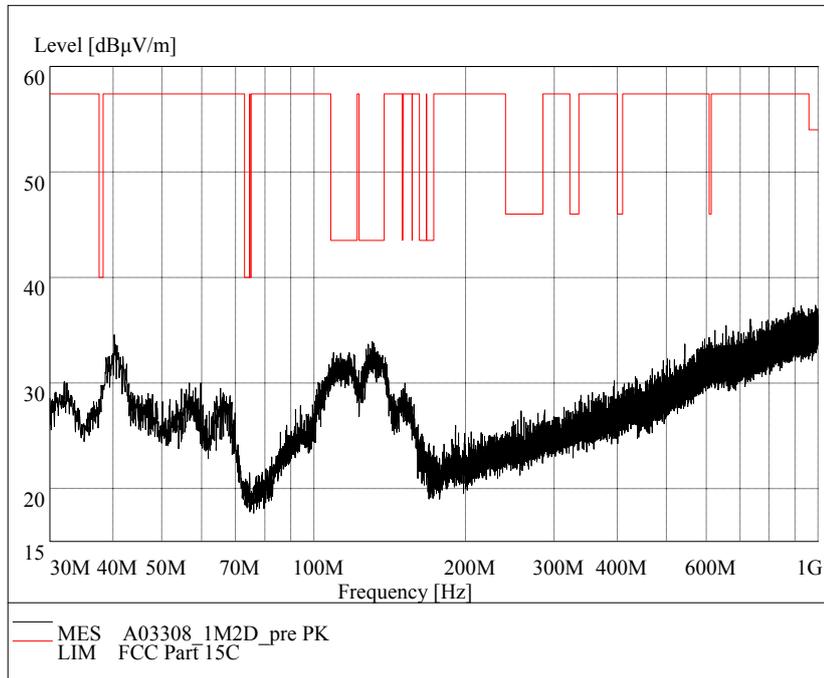


Fig.73. Radiated emission: $\pi/4$ DQPSK, Channel 39, 30 MHz - 1 GHz

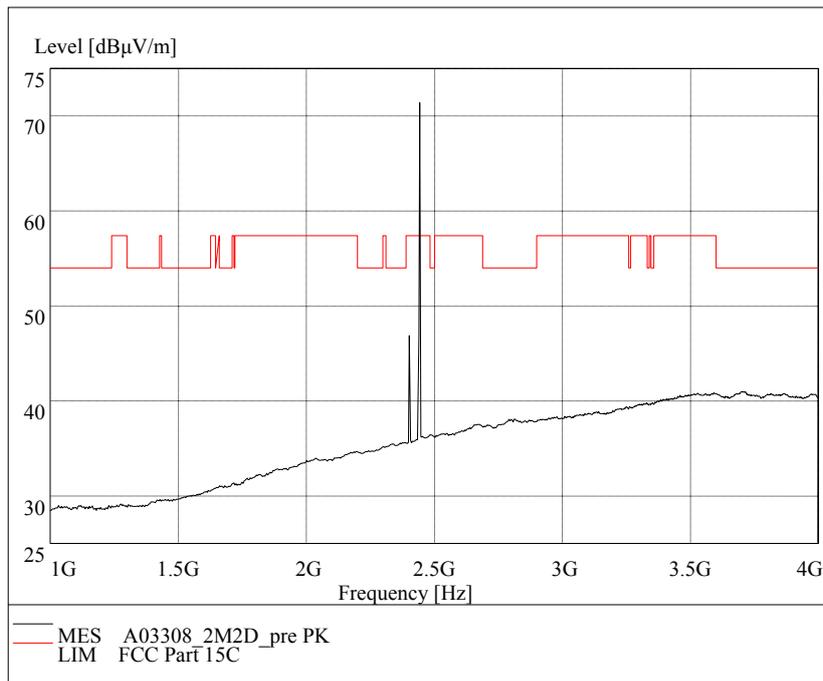


Fig.74. Radiated emission: $\pi/4$ DQPSK, Channel 39, 1 GHz - 4 GHz

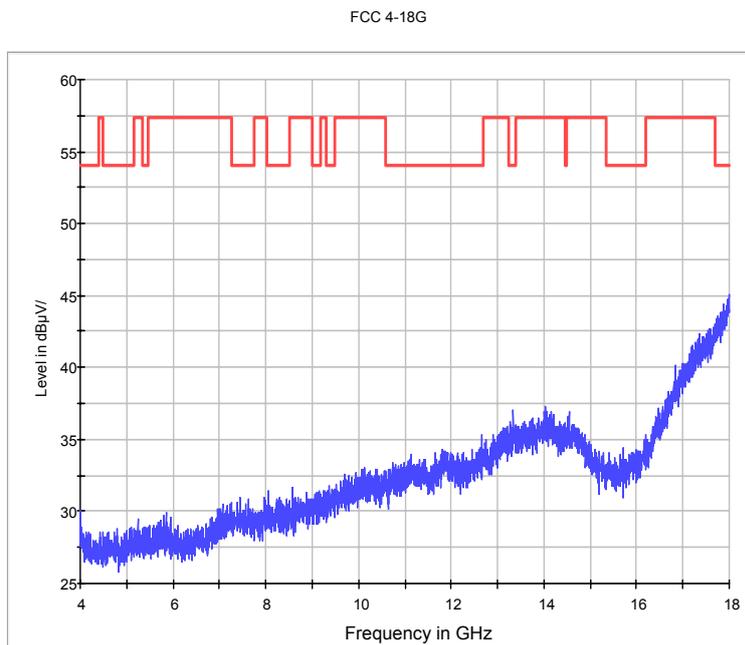


Fig.75. Radiated emission: $\pi/4$ DQPSK, Channel 39, 4 GHz - 18 GHz

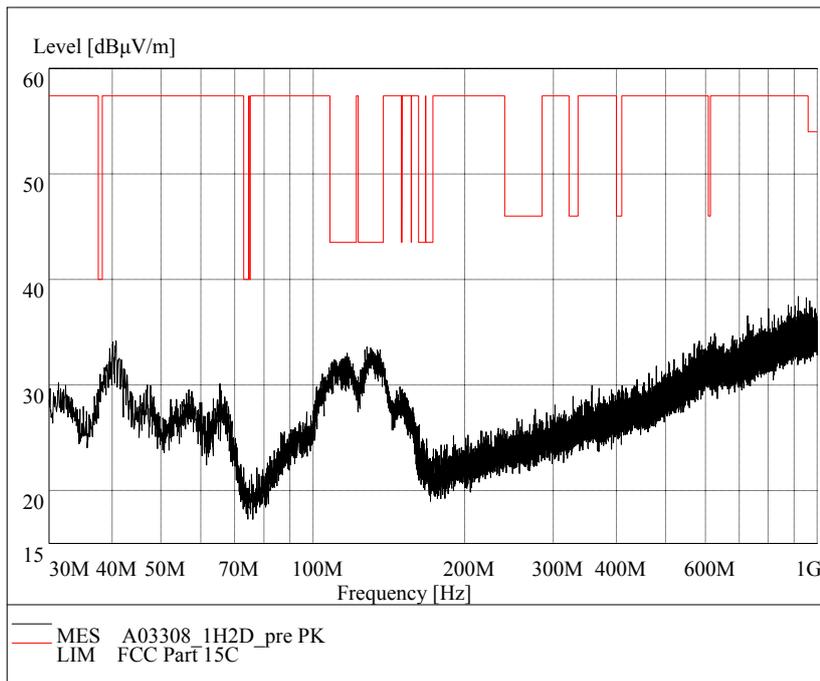


Fig.76. Radiated emission: $\pi/4$ DQPSK, Channel 78, 30 MHz - 1 GHz

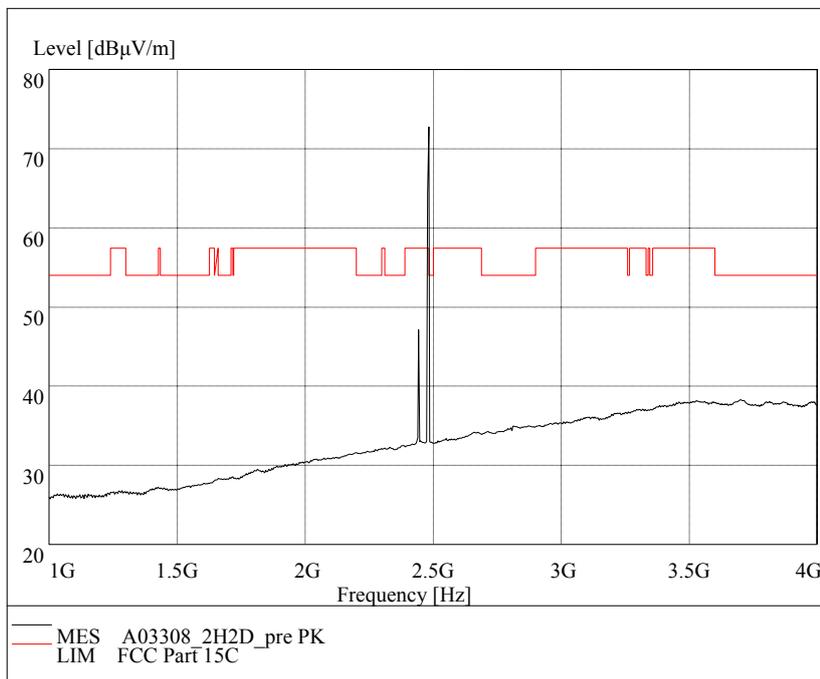


Fig.77. Radiated emission: $\pi/4$ DQPSK, Channel 78, 1 GHz - 4 GHz

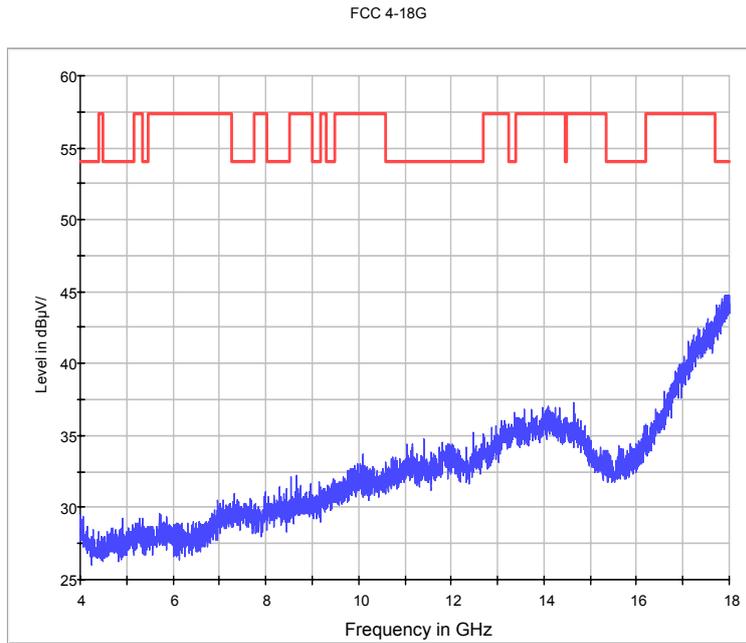


Fig.78. Radiated emission: $\pi/4$ DQPSK, Channel 78, 4 GHz - 18 GHz

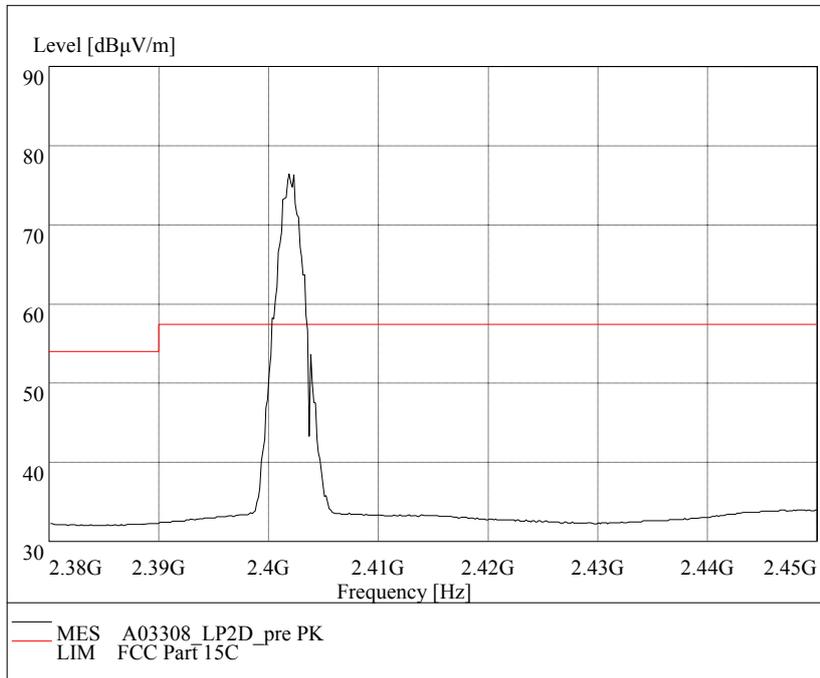


Fig.79. Radiated emission (Power): $\pi/4$ DQPSK, low channel

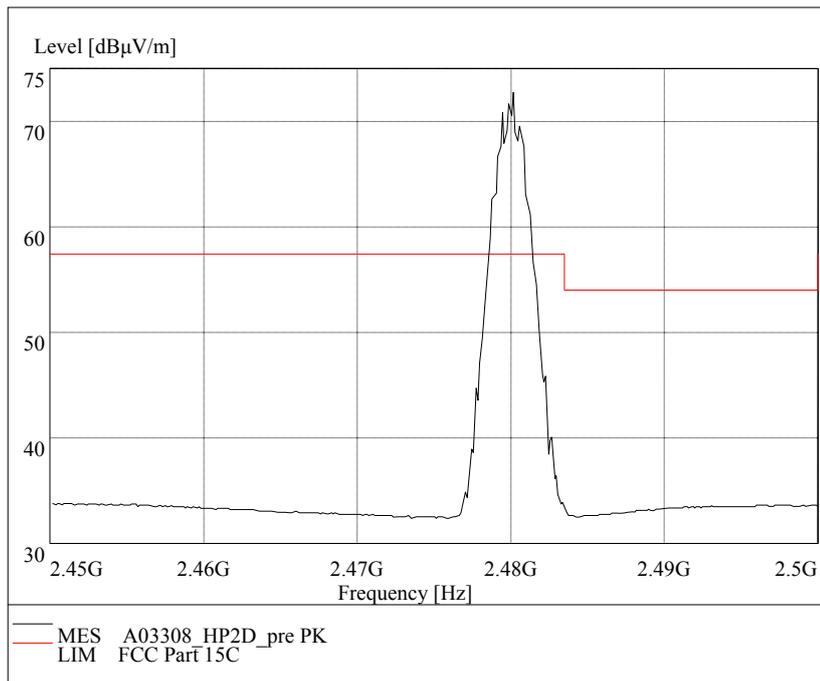


Fig.80. Radiated emission (Power): $\pi/4$ DQPSK, high channel

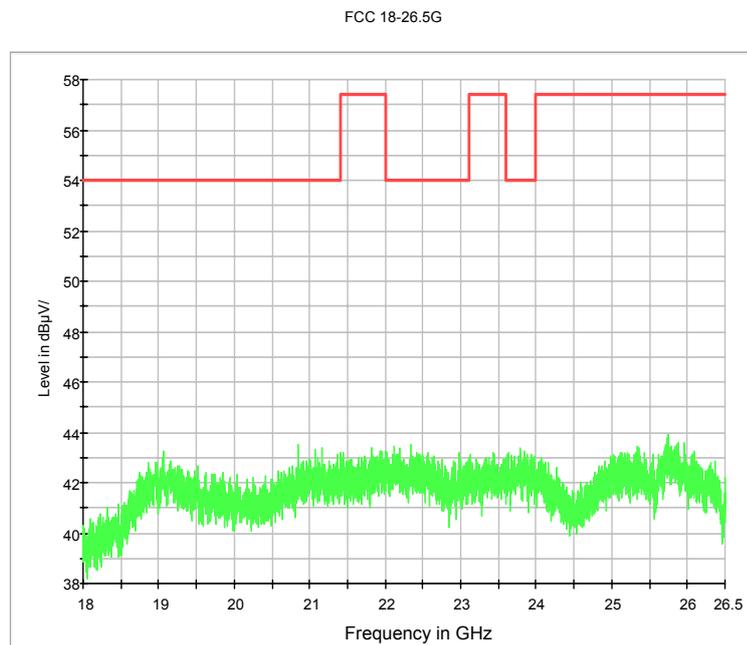


Fig.81. Radiated emission: $\pi/4$ DQPSK, 18 GHz - 26 GHz

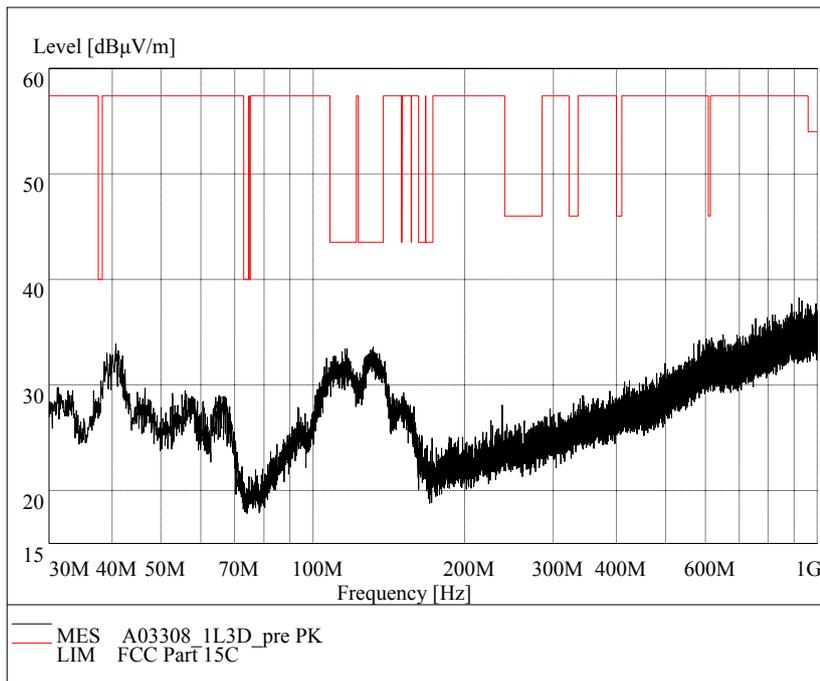


Fig.82. Radiated emission: 8DPSK, Channel 0, 30 MHz - 1 GHz

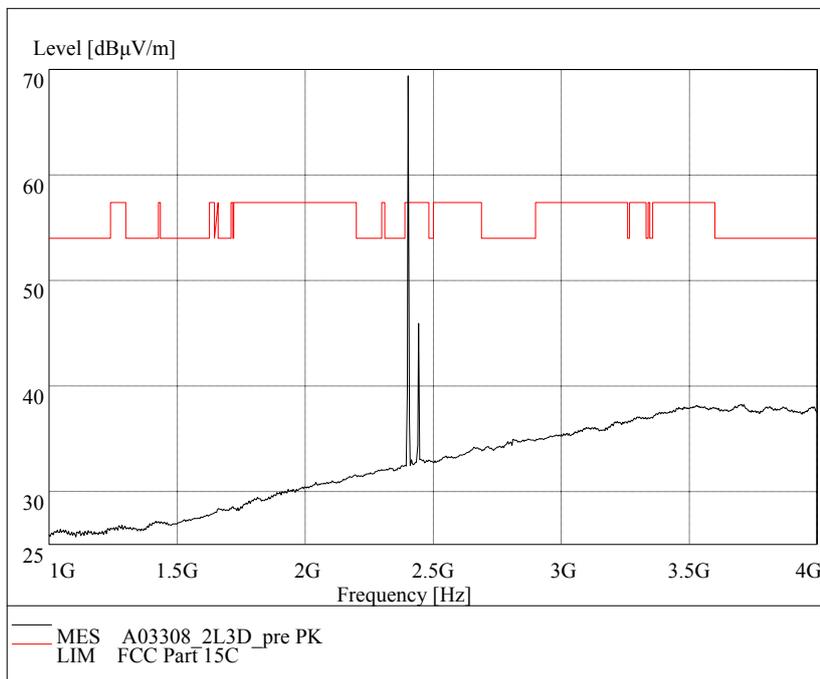


Fig.83. Radiated emission: 8DPSK, Channel 0, 1 GHz - 4 GHz

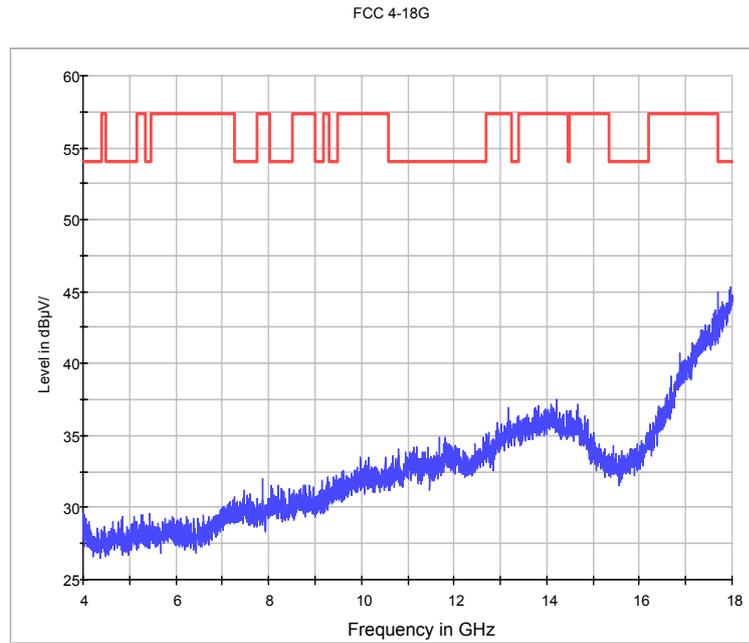


Fig.84. Radiated emission: 8DPSK, Channel 0, 4 GHz - 18 GHz

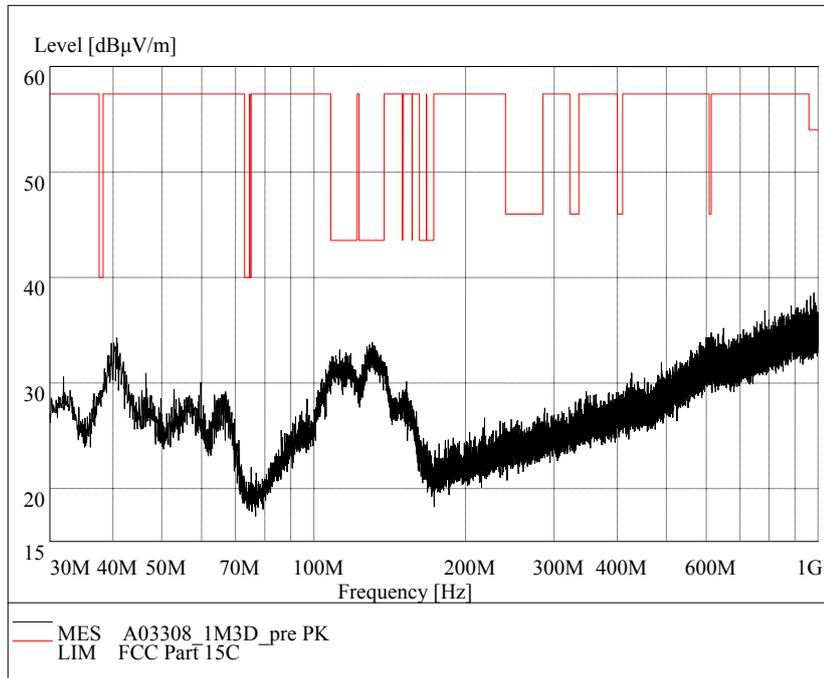


Fig.85. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

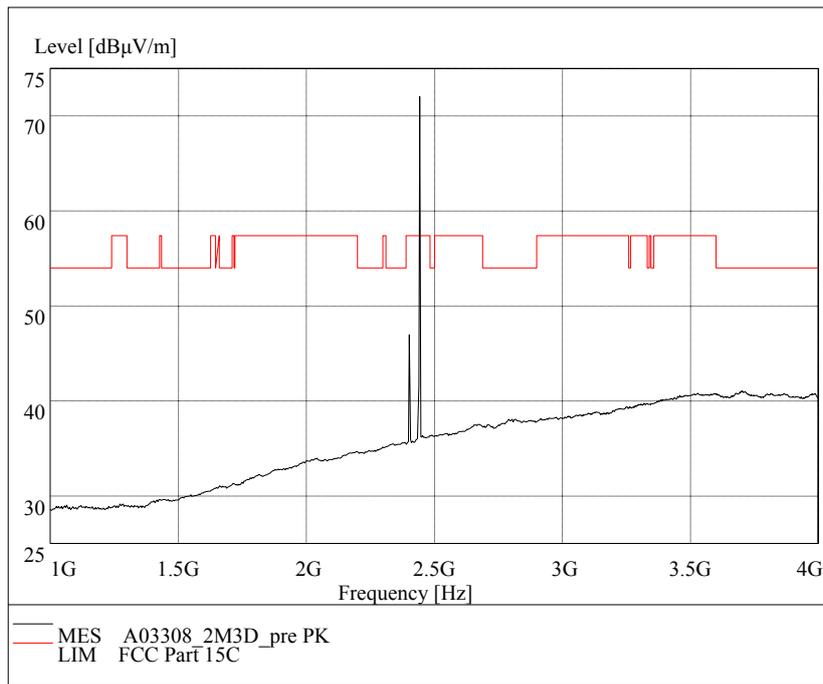


Fig.86. Radiated emission: 8DPSK, Channel 39, 1 GHz - 4 GHz

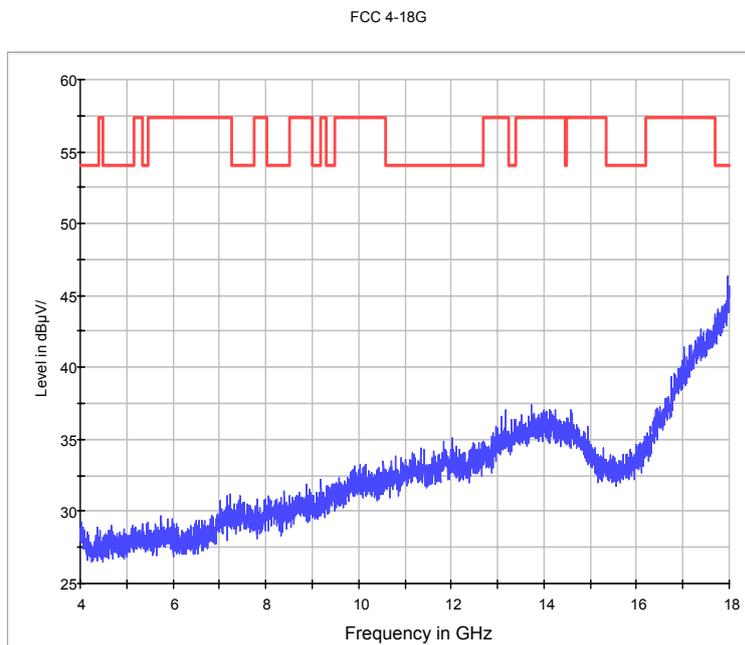


Fig.87. Radiated emission: 8DPSK, Channel 39, 4 GHz - 18 GHz

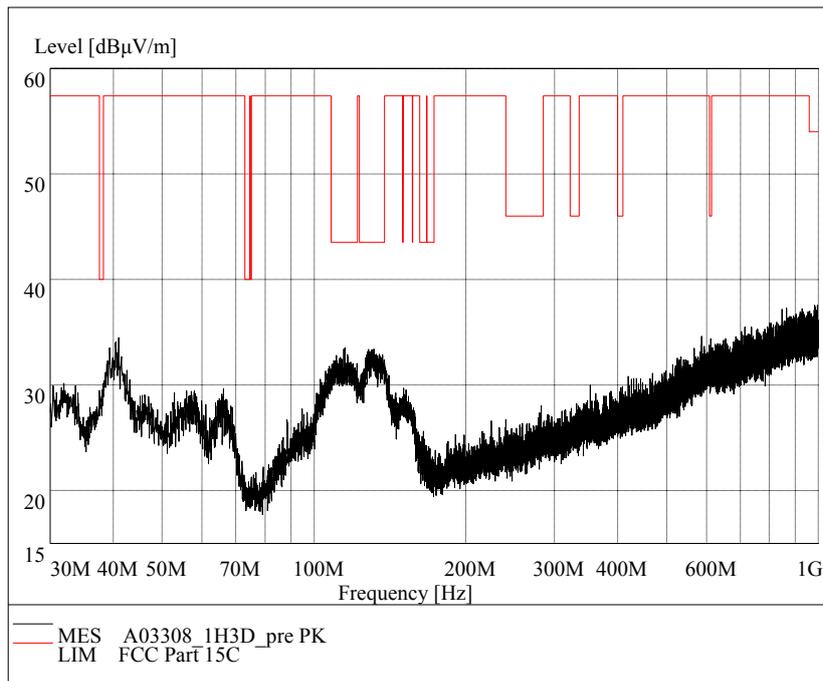


Fig.88. Radiated emission: 8DPSK, Channel 78, 30 MHz - 1 GHz

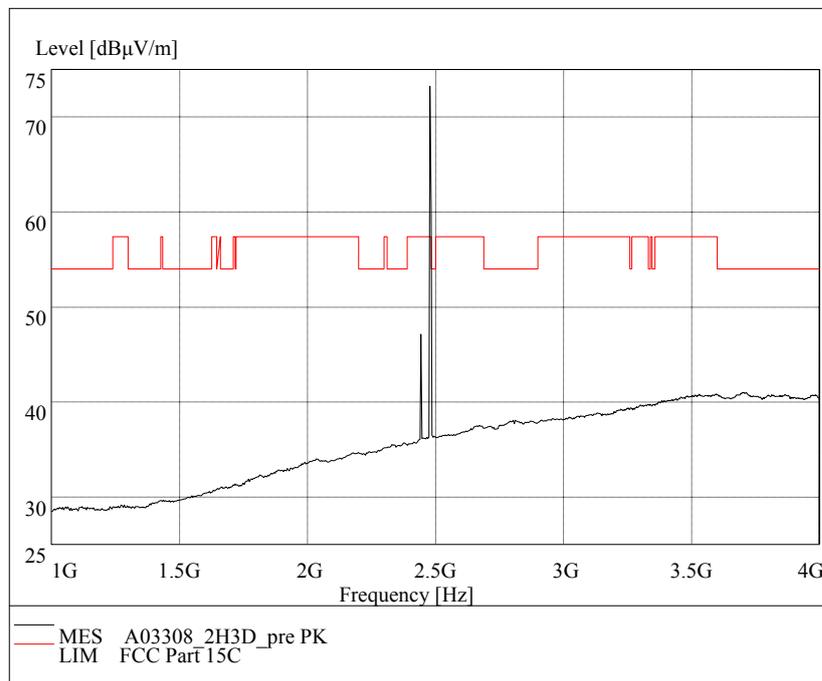


Fig.89. Radiated emission: 8DPSK, Channel 78, 1 GHz - 4 GHz

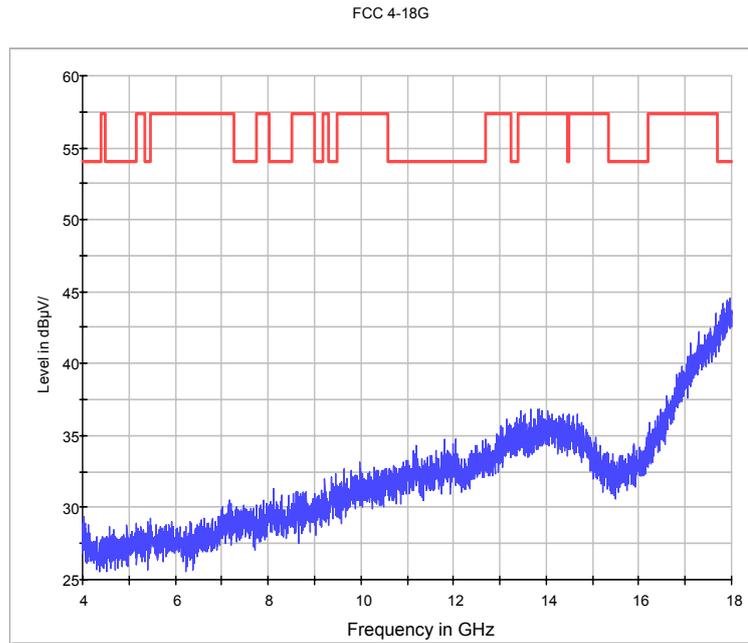


Fig.90. Radiated emission: 8DPSK, Channel 78, 4 GHz - 18 GHz

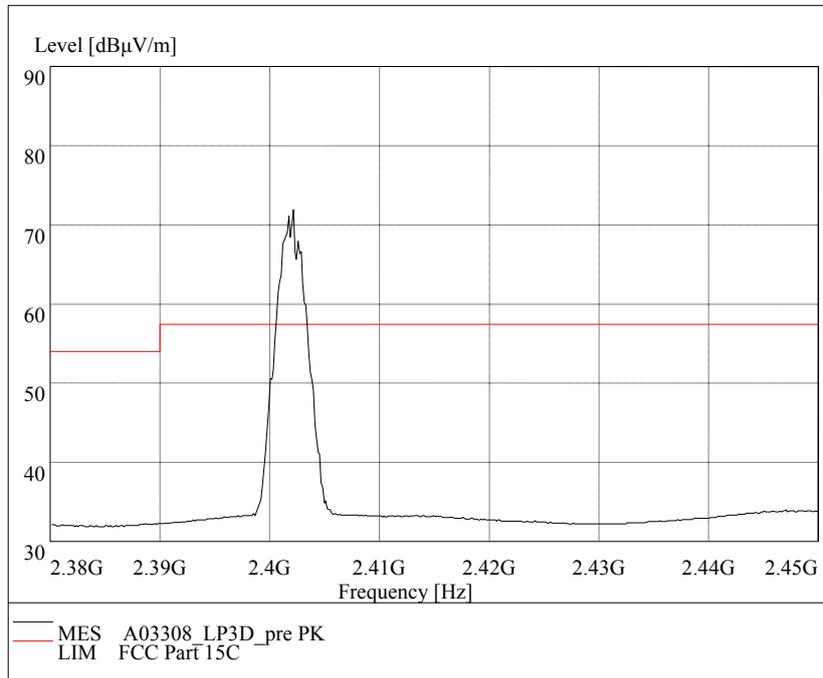


Fig.91. Radiated emission (Power): 8DPSK, low channel

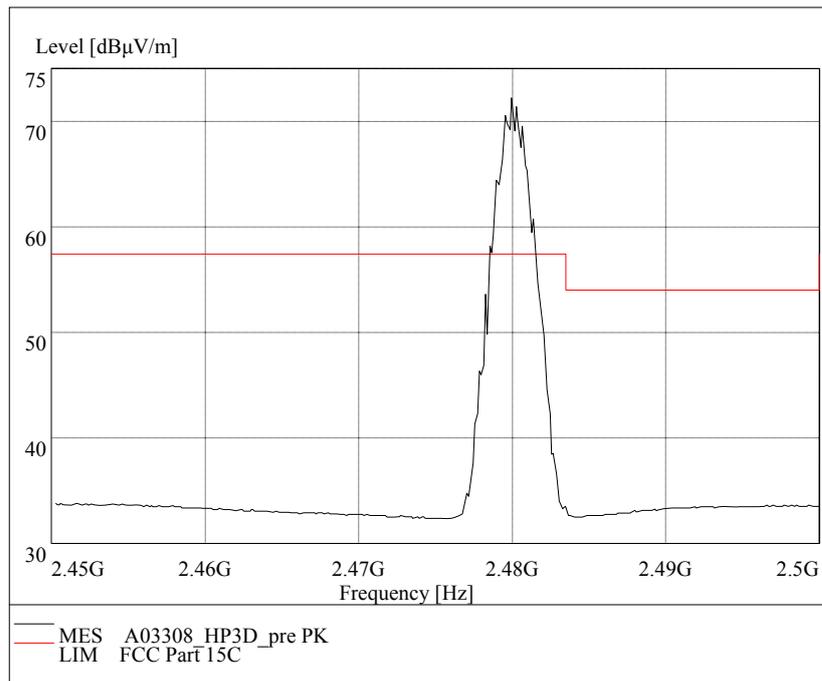


Fig.92. Radiated emission (Power): 8DPSK, high channel

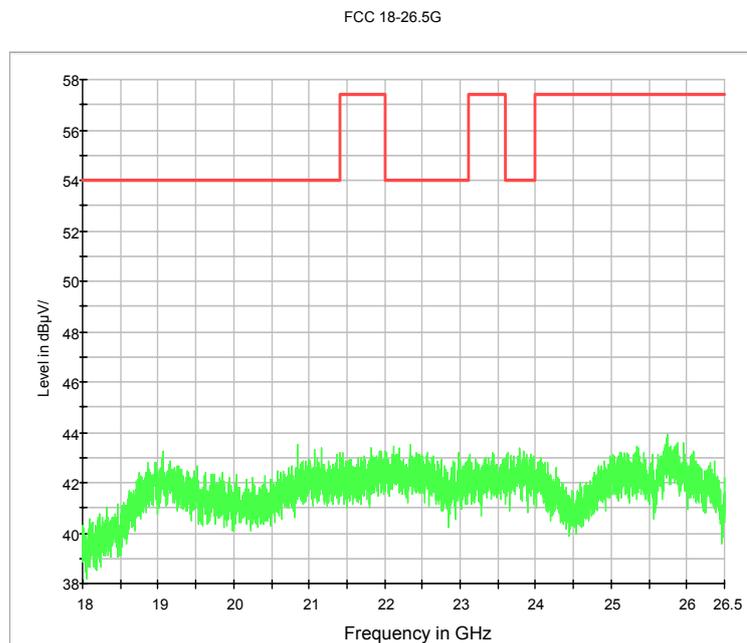


Fig.93. Radiated emission: 8DPSK, 18 GHz - 26 GHz

A.6. Time of Occupancy (Dwell Time)

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii) / RSS-210 A8.1 (4)	< 400

The measurement is made according to Public notice DA 00-705 and ANSI C63.4. The total time of occupancy is get by multiplying the measured number of transmissions occurred during 31.6 second period with the duration of one transmission.

Measurement Condition:

RBW=VBW=1MHz; SPAN=0; Detector: peak

Measurement Result:

EUT ID:N19

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.94	109.32	P
		Fig.95		
	DH3	Fig.96	184.91	P
		Fig.97		
	DH5	Fig.98	198.87	P
		Fig.99		

For $\pi/4$ DQPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.100	112.39	P
		Fig.101		
	DH3	Fig.102	161.59	P
		Fig.103		
	DH5	Fig.104	234.38	P
		Fig.105		

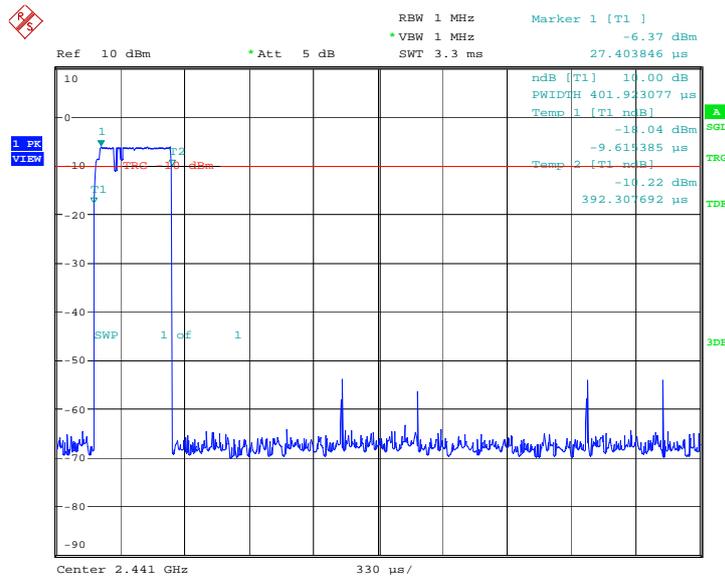
For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.106	143.31	P
		Fig.107		
	DH3	Fig.108	181.58	P
		Fig.109		
	DH5	Fig.110	251.96	P
		Fig.111		

Measurement Uncertainty: $\pm 0.088\text{ms}$

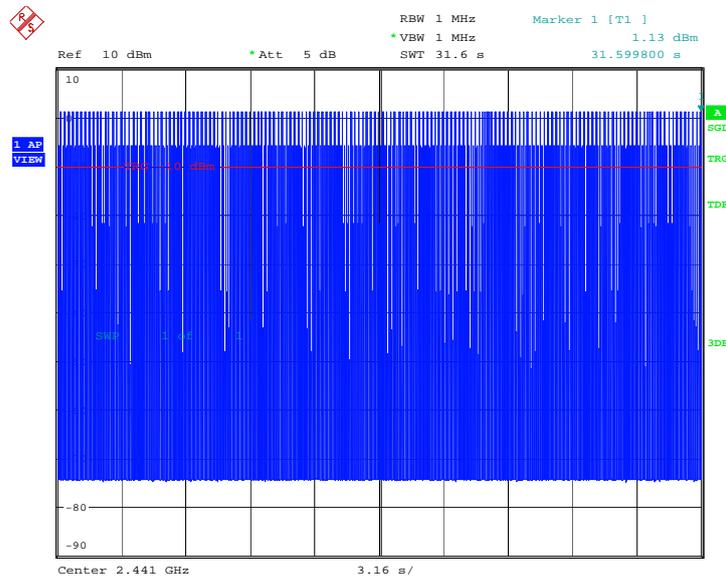
Conclusion: PASS

Test graphs as below:



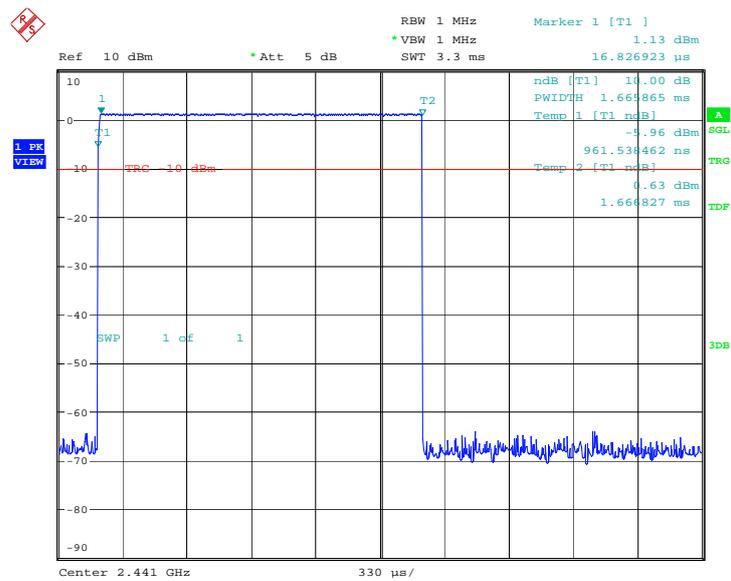
Date: 15.JUN.2011 09:27:35

Fig.94. Time of occupancy (Dwell Time): Channel 39, Packet DH1



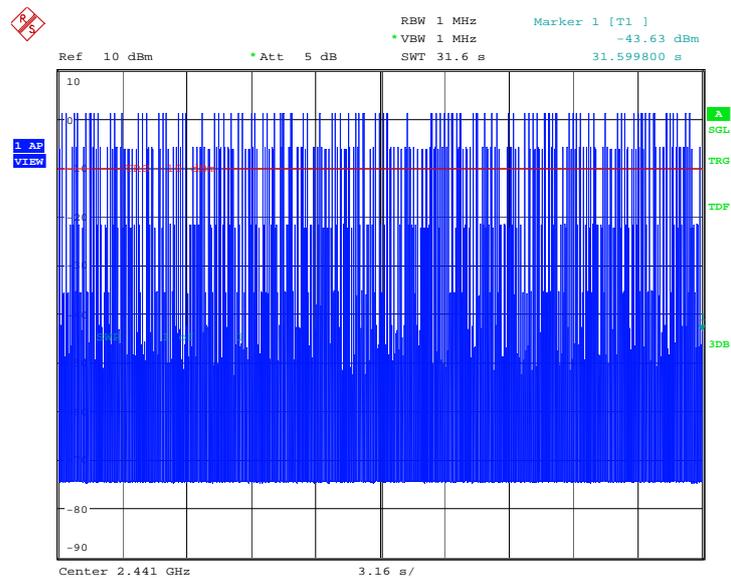
Date: 15.JUN.2011 09:27:23

Fig.95. Number of Transmissions Measurement:Channel 39,Packet DH1



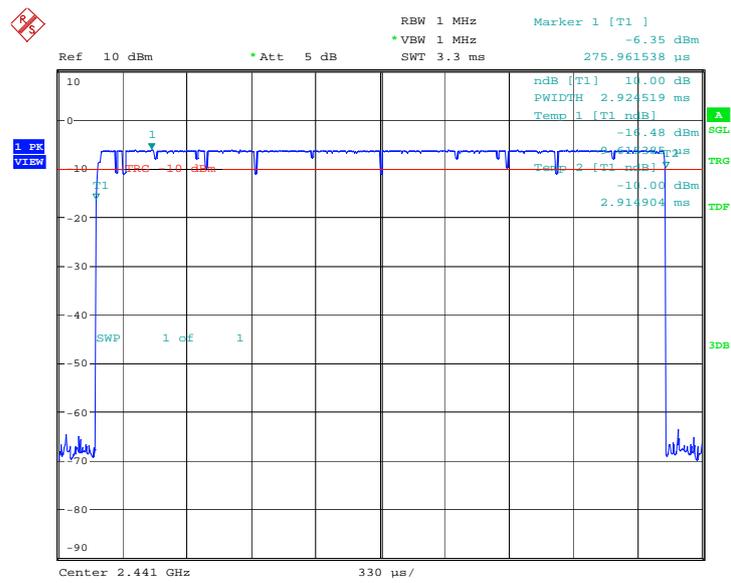
Date: 15.JUN.2011 09:28:53

Fig.96. Time of occupancy (Dwell Time): Channel 39, Packet DH3



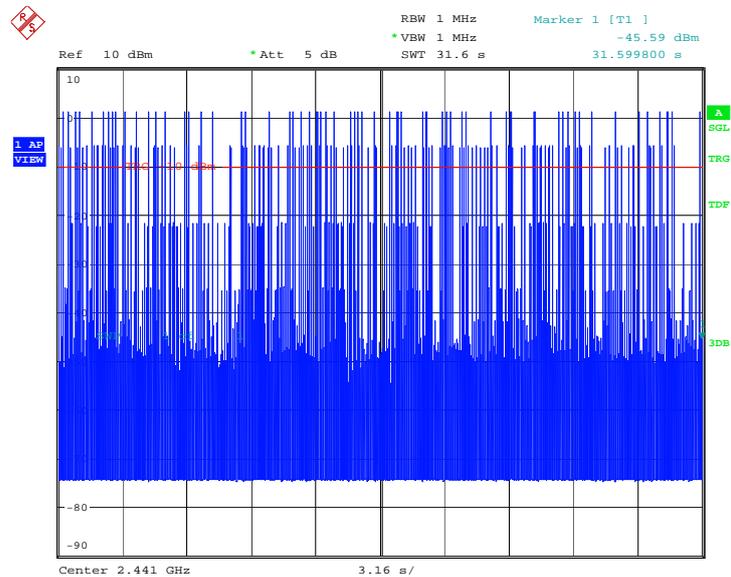
Date: 15.JUN.2011 09:28:41

Fig.97. Number of Transmissions Measurement:Channel 39,Packet DH3



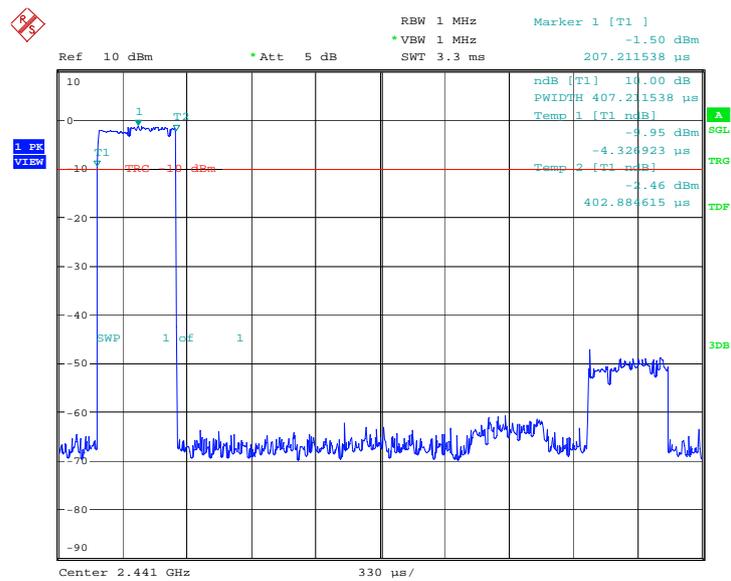
Date: 15.JUN.2011 09:30:11

Fig.98. Time of occupancy (Dwell Time): Channel 39, Packet DH5



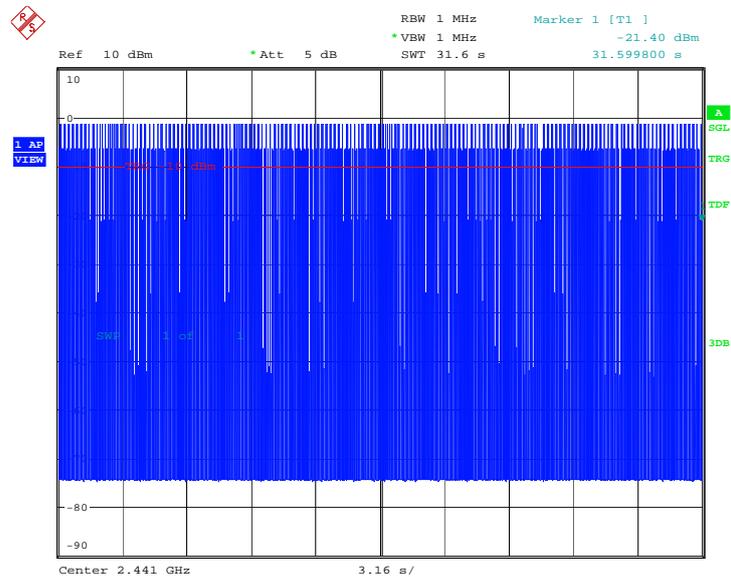
Date: 15.JUN.2011 09:29:59

Fig.99. Number of Transmissions Measurement:Channel 39,Packet DH5



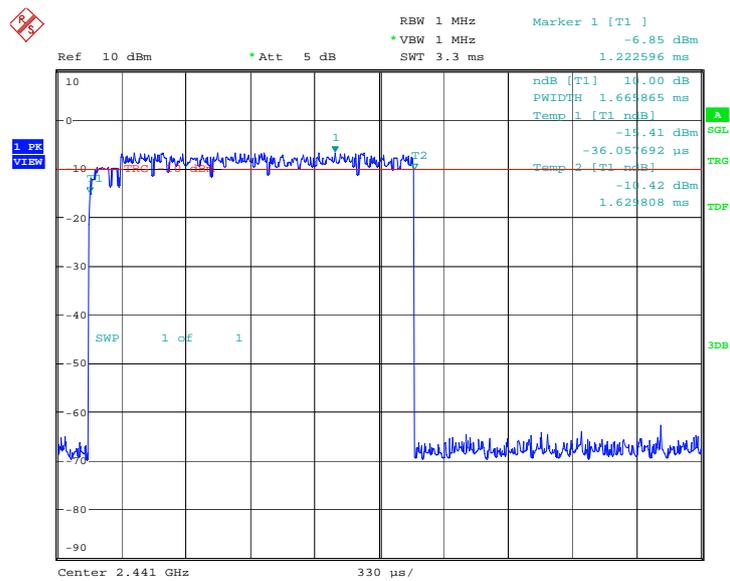
Date: 15.JUN.2011 09:49:41

Fig.100. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1



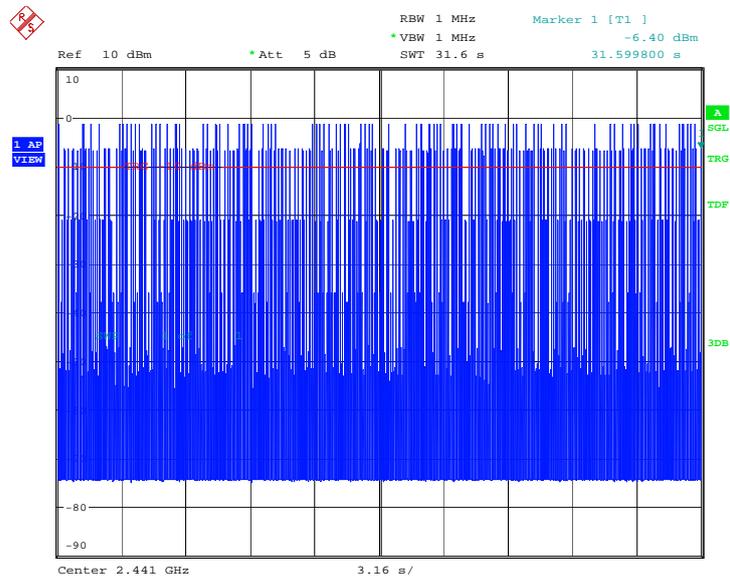
Date: 15.JUN.2011 09:49:29

Fig.101. Number of Transmissions Measurement:Channel 39,Packet 2-DH1



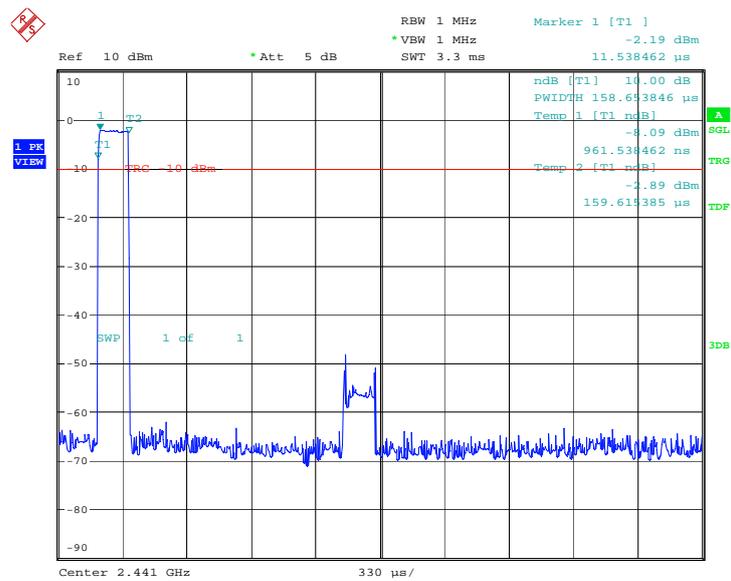
Date: 15.JUN.2011 09:50:59

Fig.102. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3



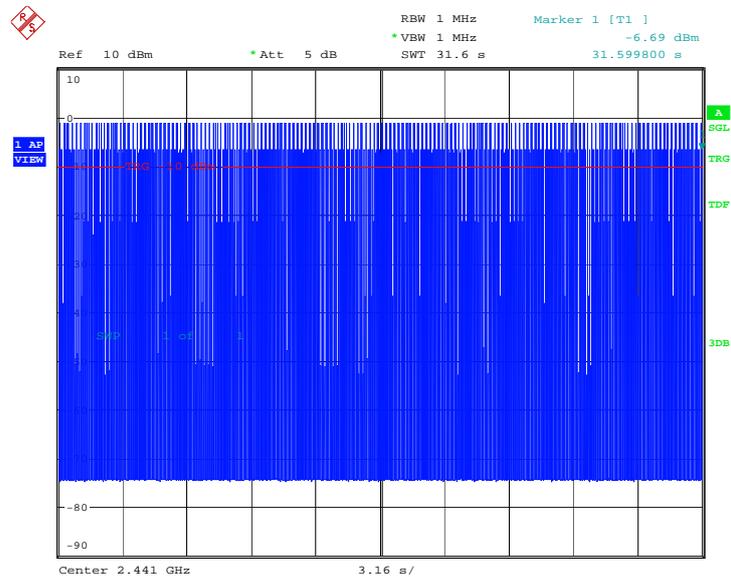
Date: 15.JUN.2011 09:50:47

Fig.103. Number of Transmissions Measurement:Channel 39,Packet 2-DH3



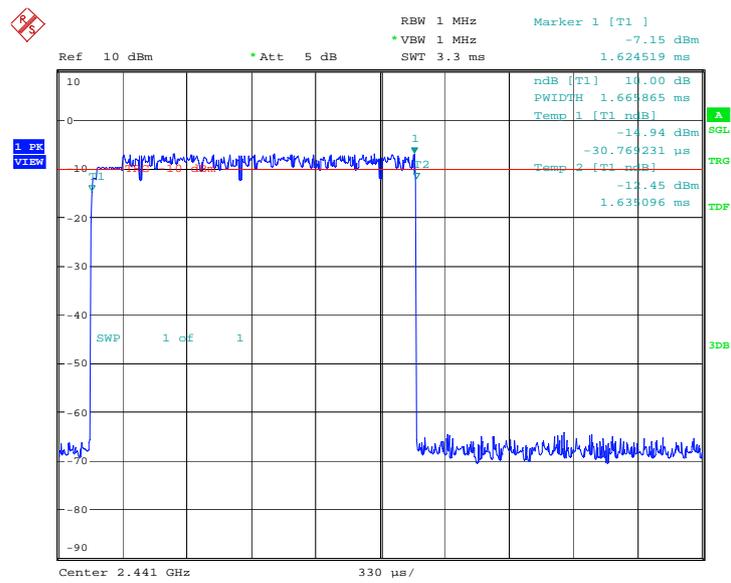
Date: 15.JUN.2011 10:11:44

Fig.106. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1



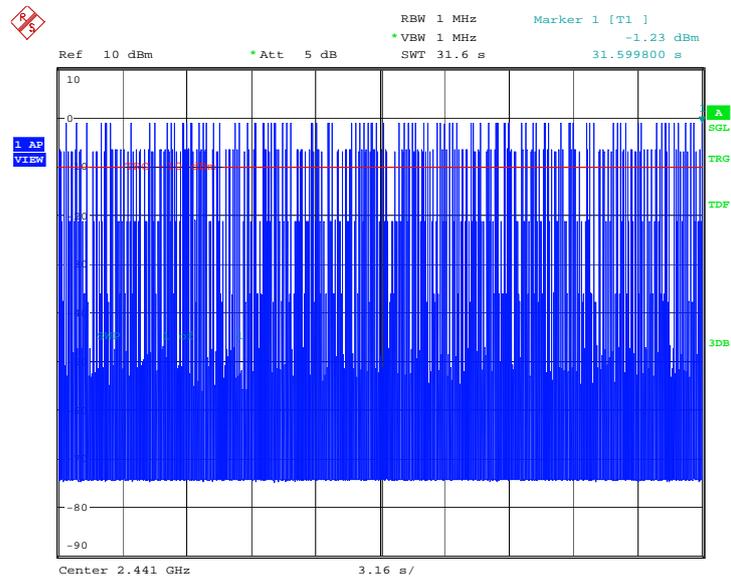
Date: 15.JUN.2011 10:11:32

Fig.107. Number of Transmissions Measurement:Channel 39,Packet 3-DH1



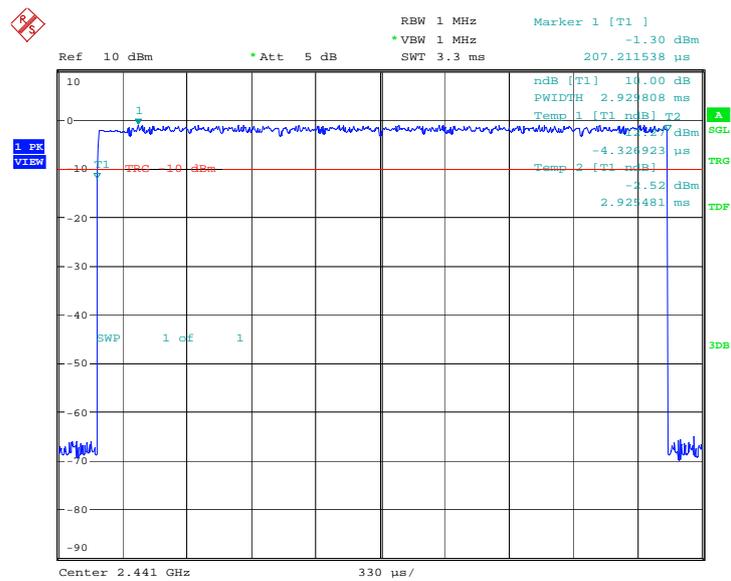
Date: 15.JUN.2011 10:13:03

Fig.108. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3



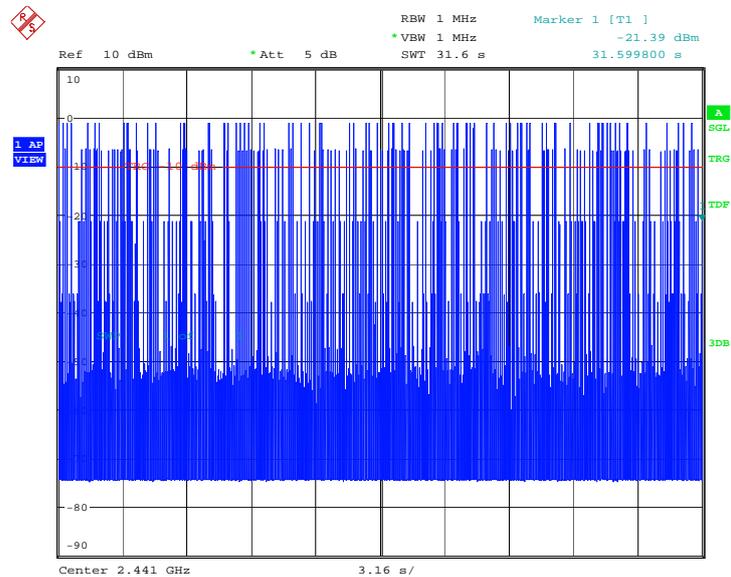
Date: 15.JUN.2011 10:12:52

Fig.109. Number of Transmissions Measurement:Channel 39,Packet 3-DH3



Date: 15.JUN.2011 10:14:20

Fig.110. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5



Date: 15.JUN.2011 10:14:09

Fig.111. Number of Transmissions Measurement:Channel 39,Packet 3-DH5

A.7. 20dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1) / RSS-210 A8.1 (1)	NA *

The measurement is made according to Public notice DA 00-705 and ANSI C63.

Measurement Condition:

RBW=20KHz; VBW=50KHz; SPAN=3MHz; Detector: peak

Measurement Results:

EUT ID:N19

For GFSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.112	870.19	P
39	Fig.113	870.19	P
78	Fig.114	870.19	P

For $\pi/4$ DQPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.115	1326.92	P
39	Fig.116	1293.27	P
78	Fig.117	1298.08	P

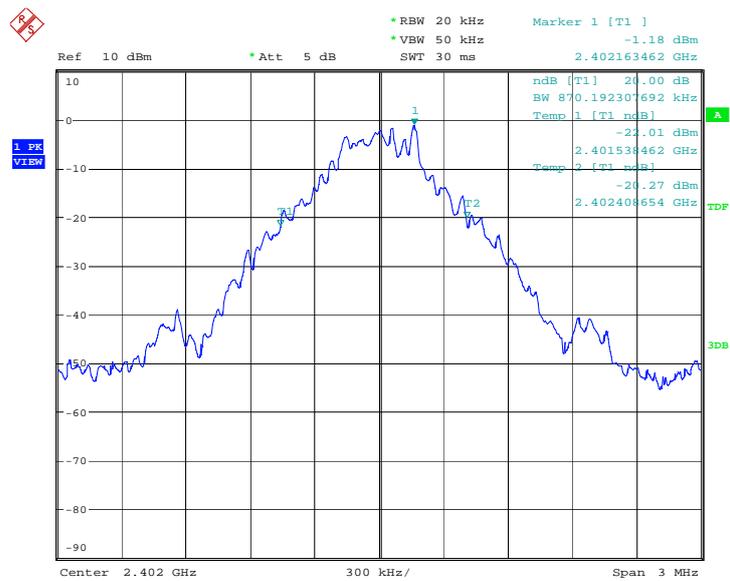
For 8DPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.118	1274.04	P
39	Fig.119	1274.04	P
78	Fig.120	1274.04	P

Measurement Uncertainty: ± 1.1 KHz

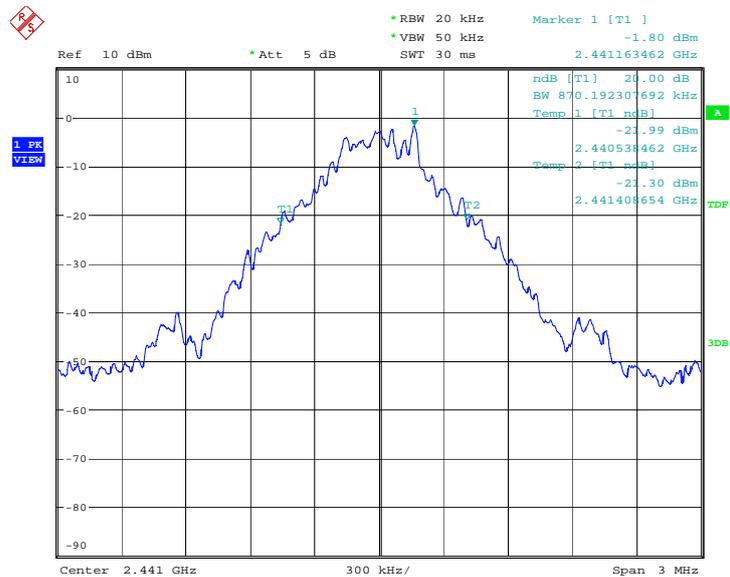
Conclusion: PASS

Test graphs as below:



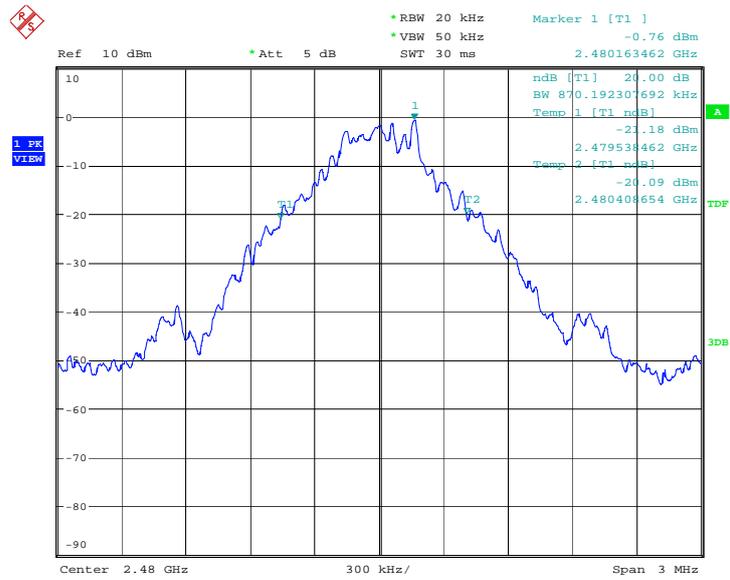
Date: 15.JUN.2011 09:30:44

Fig.112. 20dB Bandwidth: GFSK, Channel 0



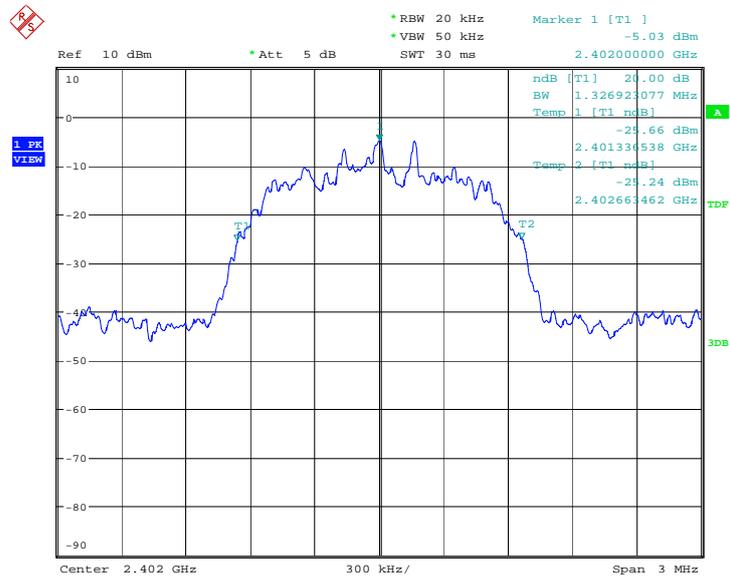
Date: 15.JUN.2011 09:31:16

Fig.113. 20dB Bandwidth: GFSK, Channel 39



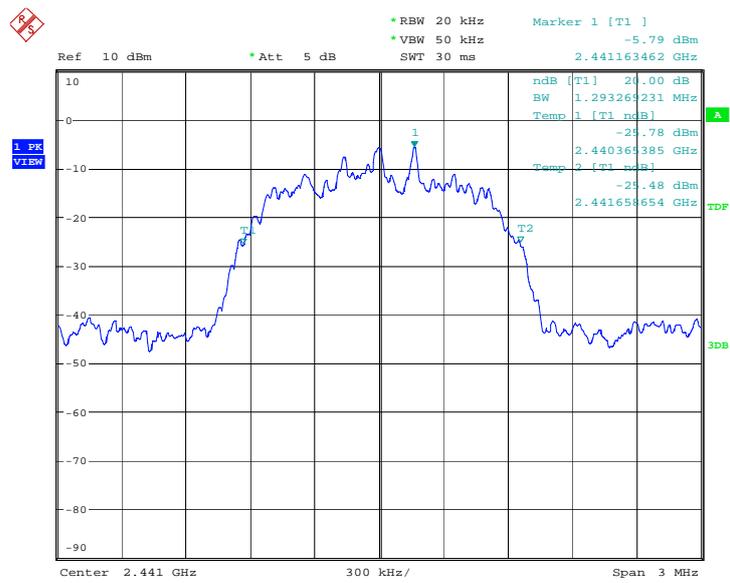
Date: 15.JUN.2011 09:31:48

Fig.114. 20dB Bandwidth: GFSK, Channel 78



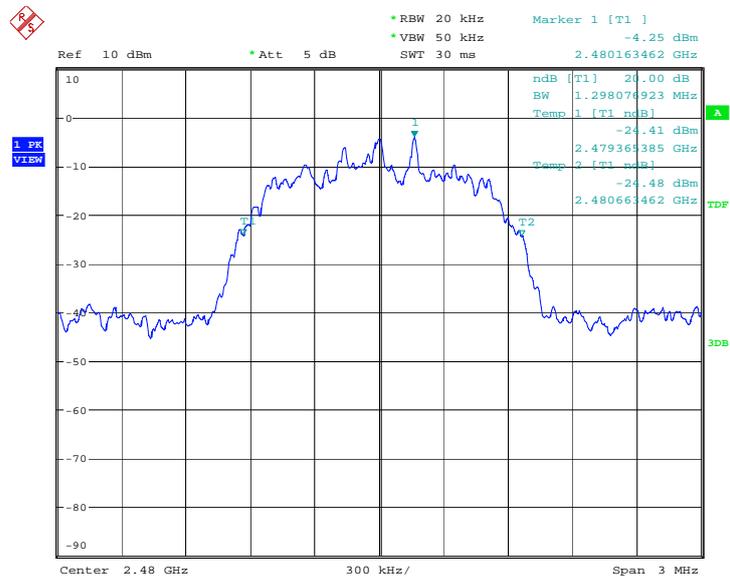
Date: 15.JUN.2011 09:52:48

Fig.115. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 0



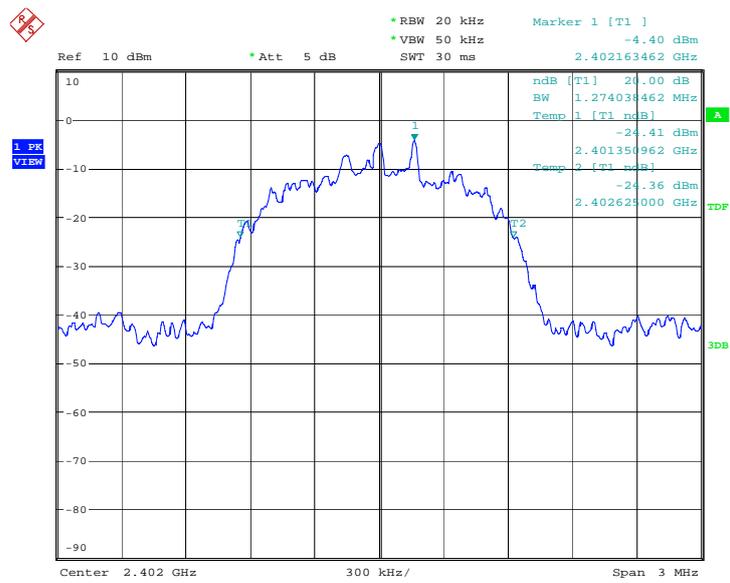
Date: 15.JUN.2011 09:53:20

Fig.116. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 39



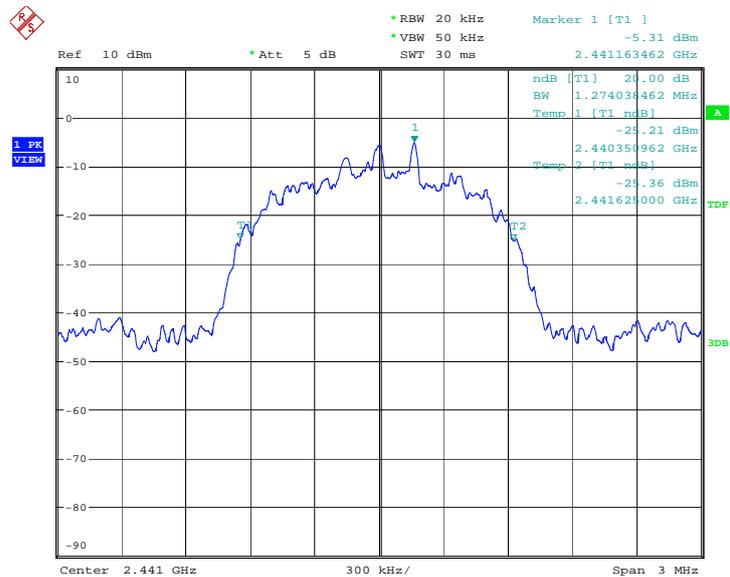
Date: 15.JUN.2011 09:53:52

Fig.117. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 78



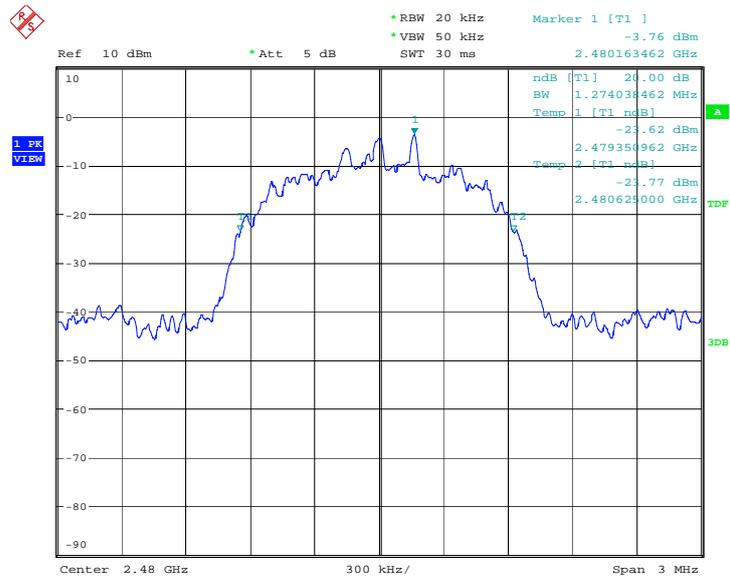
Date: 15.JUN.2011 10:14:54

Fig.118. 20dB Bandwidth: 8DPSK, Channel 0



Date: 15.JUN.2011 10:15:26

Fig.119. 20dB Bandwidth: 8DPSK, Channel 39



Date: 15.JUN.2011 10:15:58

Fig.120. 20dB Bandwidth: 8DPSK, Channel 78

A.8. Carrier Frequency Separation

Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1) / RSS-210 A8.1 (2)	over 25 kHz or (2/3) * 20dB bandwidth

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

* Comment: This limit should be over 25 kHz or (2/3) * 20dB bandwidth, whichever is greater.

Measurement Condition:

RBW=VBW=300KHz; SPAN=3MHz; Detector: peak

Measurement Result:

EUT ID:N19

For GFSK

Channel	Carrier frequency separation (kHz)	Conclusion	
39	Fig.121	1149.04	P

For $\pi/4$ DQPSK

Channel	Carrier frequency separation (kHz)	Conclusion	
39	Fig.122	1043.27	P

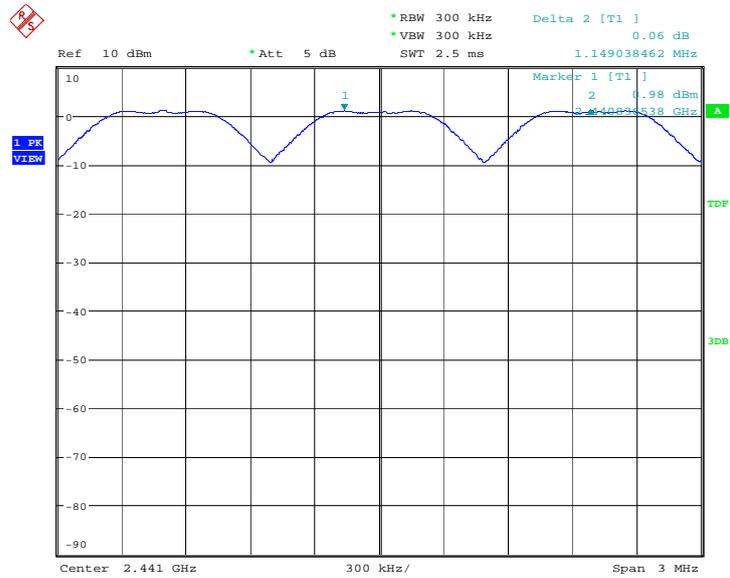
For 8DPSK

Channel	Carrier frequency separation (kHz)	Conclusion	
39	Fig.123	1009.62	P

Measurement Uncertainty:±1.1KHz

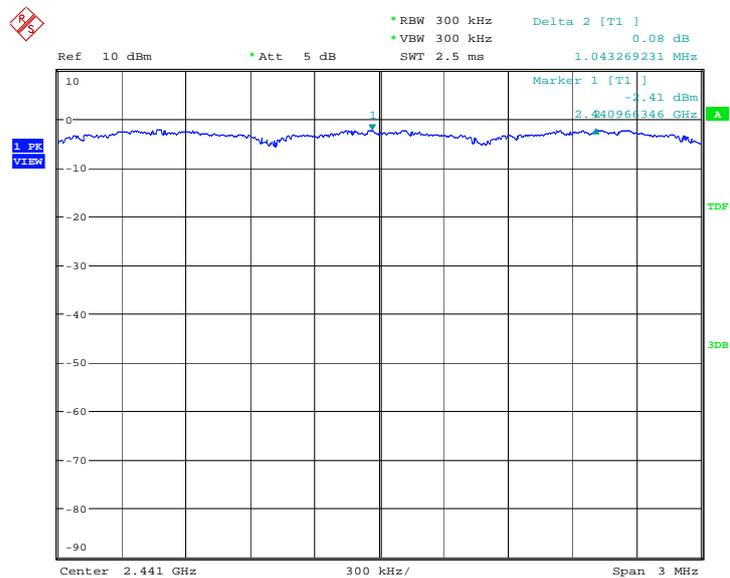
Conclusion: PASS

Test graphs as below:



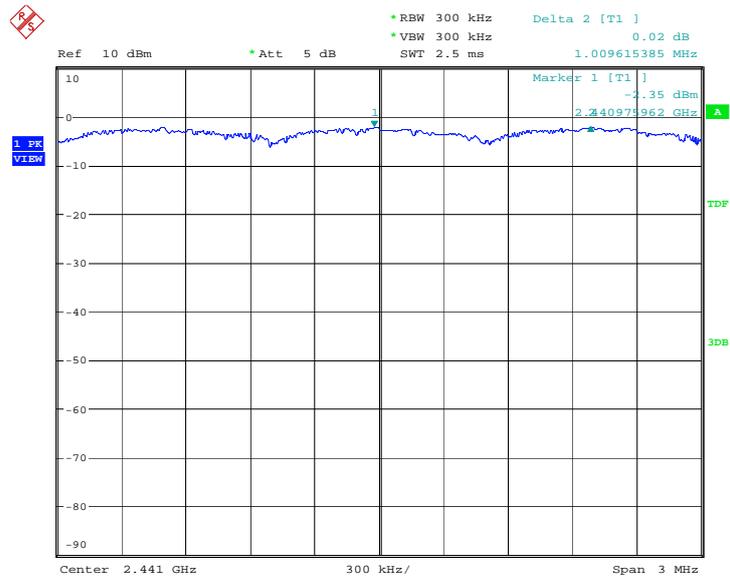
Date: 15.JUN.2011 09:33:53

Fig.121. Carrier frequency separation measurement: GFSK, Channel 39



Date: 15.JUN.2011 10:26:22

Fig.122. Carrier frequency separation measurement: $\pi/4$ DQPSK, Channel 39



Date: 15.JUN.2011 10:18:03

Fig.123. Carrier frequency separation measurement: 8DPSK, Channel 39

A.9. Number of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii) / RSS-210 A8.1 (4)	At least 15 non-overlapping channels

The measurement is made according to Public notice DA 00-705 and ANSI C63.4

Measurement Condition:

RBW=VBW=500KHz; Detector: peak

Measurement Result:

EUT ID:N19

For GFSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.124	79 P
40~78	Fig.125	

For $\pi/4$ DQPSK

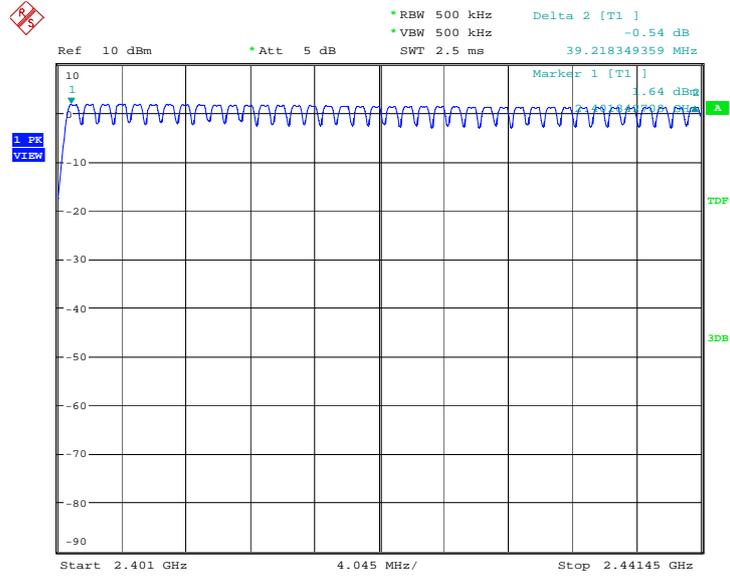
Channel	Number of hopping channels	Conclusion
0~39	Fig.126	79 P
40~78	Fig.127	

For 8DPSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.128	79 P
40~78	Fig.129	

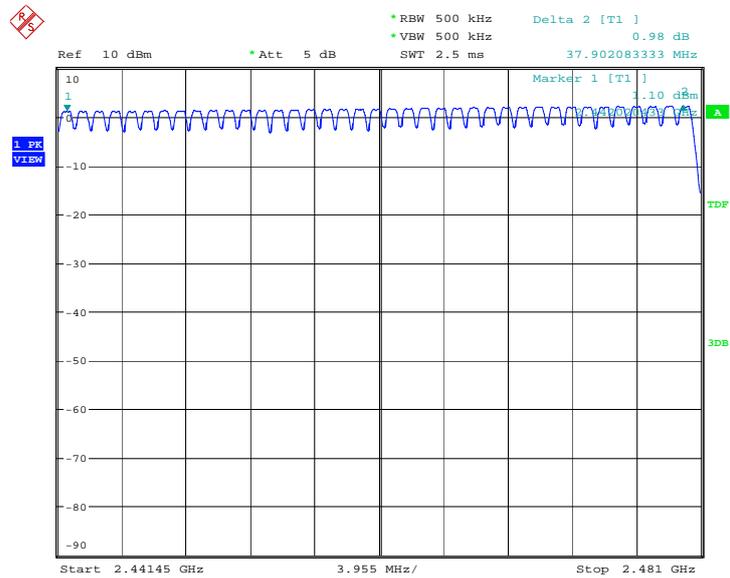
Conclusion: PASS

Test graphs as below:



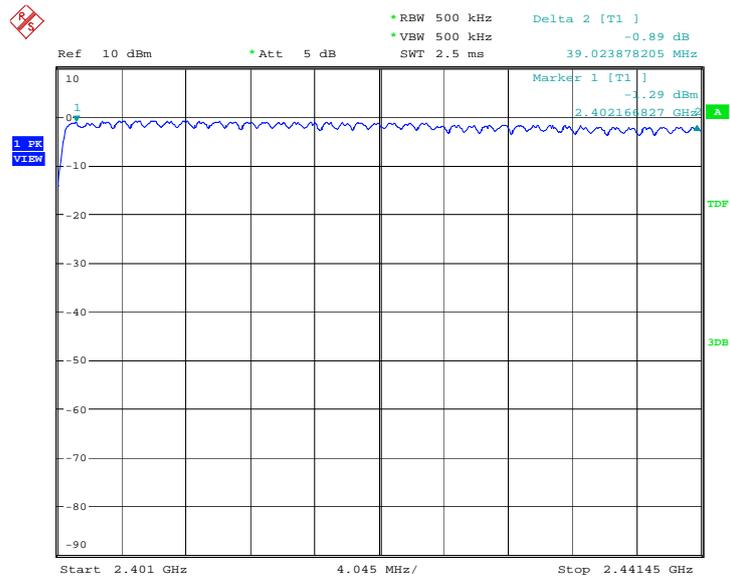
Date: 15.JUN.2011 09:35:57

Fig.124. Number of hopping frequencies: GFSK, Channel 0 - 39



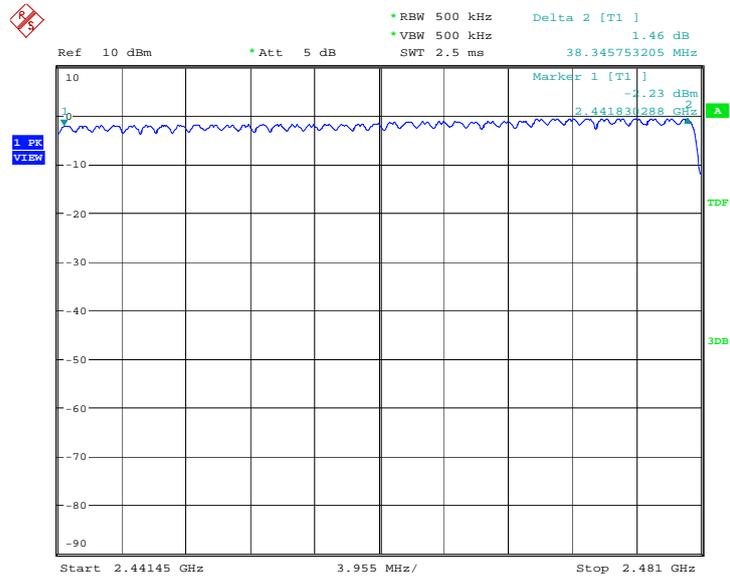
Date: 15.JUN.2011 09:37:59

Fig.125. Number of hopping frequencies: GFSK, Channel 40 - 78



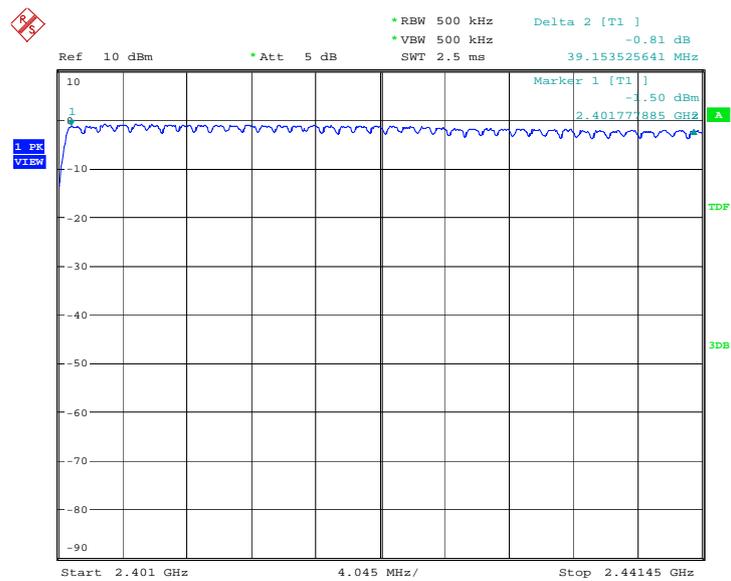
Date: 15.JUN.2011 09:58:00

Fig.126. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 0 - 39



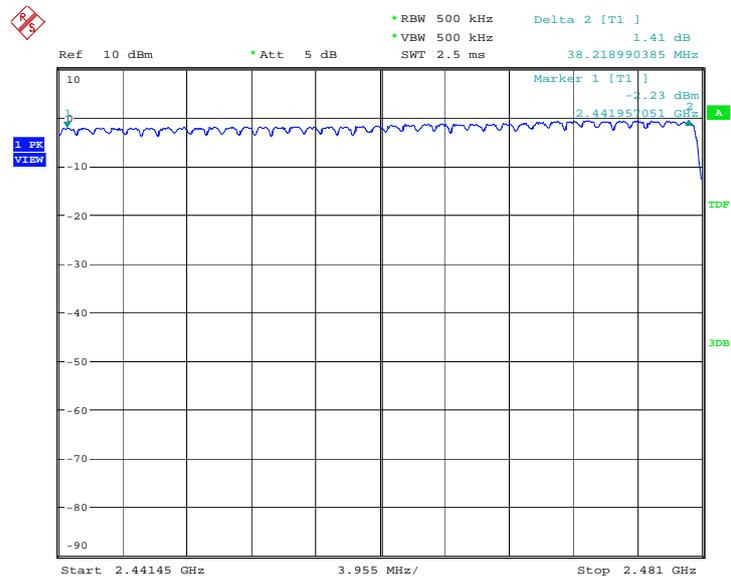
Date: 15.JUN.2011 10:00:03

Fig.127. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 40 - 78



Date: 15.JUN.2011 10:20:07

Fig.128. Number of hopping frequencies: 8DPSK, Channel 0 - 39



Date: 15.JUN.2011 10:22:09

Fig.129. Number of hopping frequencies: 8DPSK, Channel 40 - 78

A.10. AC Powerline Conducted Emission

Standard
FCC 47 CFR Part 15.107, 15.207/ RSS-Gen 7.2.2

Test Condition

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

EUT ID:N11

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With Charger		
0.15 to 0.5	66 o 56	Fig.130 (TX Mode)	Fig.131 (Idle Mode)	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Bluetooth (Average Limit)

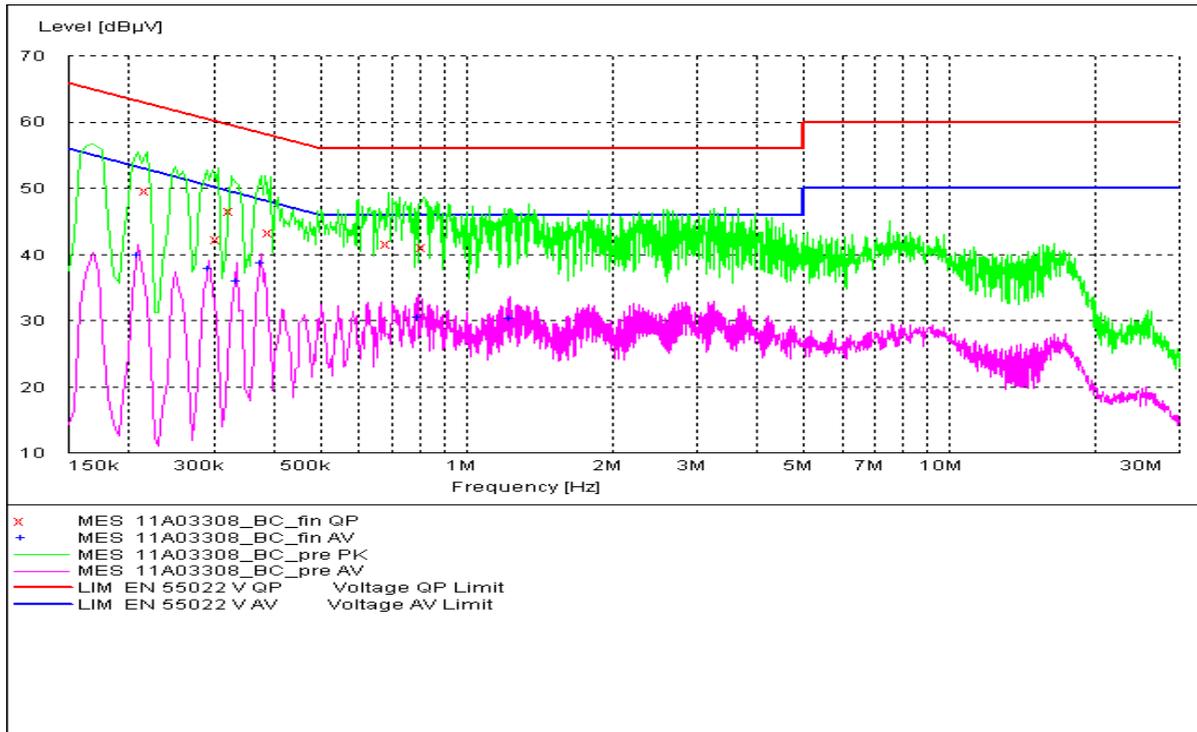
Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With Charger		
0.15 to 0.5	56 to 46	Fig.109 (TX Mode)	Fig.110 (Idle Mode)	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

The measurement is made according to ANSI C63.4.

Note: the graphic result above is the maximum of the measurements for both phase line and neutral line.

Conclusion: PASS

Test graphs as below:

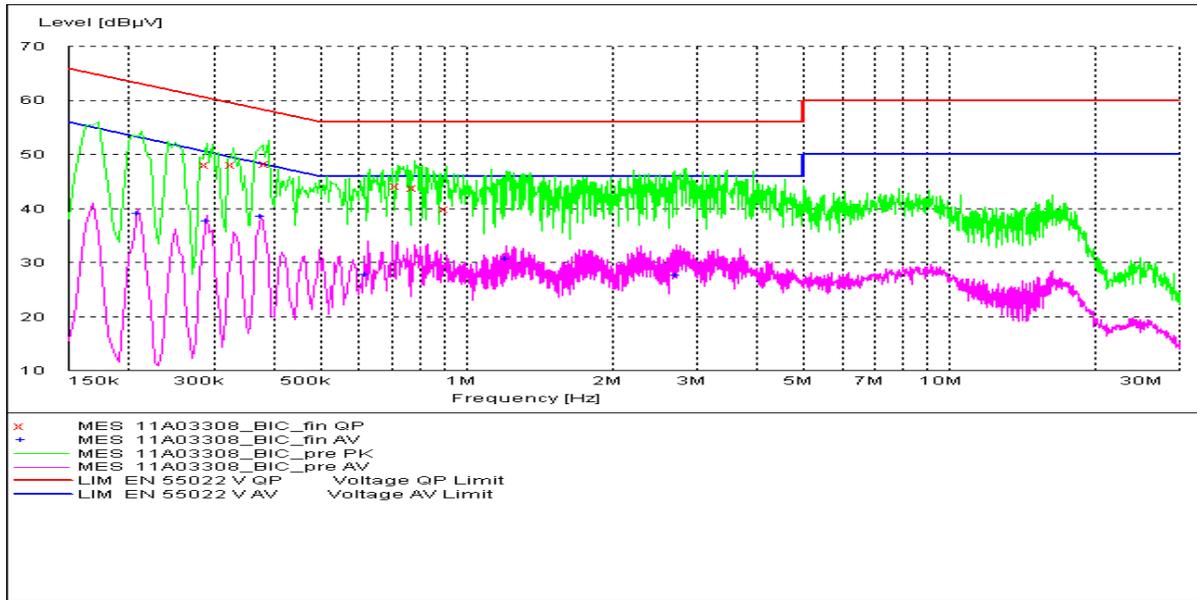


MEASUREMENT RESULT: "11A03308_BC_fin QP"

Frequency MHz	Level dBµV	Transd	Limit dB	Margin dBµV	Line	PE
0.217500	49.70	10.1	63	13.2	L1	GND
0.307500	42.30	10.1	60	17.7	N	GND
0.325500	46.50	10.1	60	13.1	L1	GND
0.393000	43.40	10.1	58	14.6	N	GND
0.690000	41.70	10.1	56	14.3	L1	GND
0.816000	41.20	10.1	56	14.8	N	GND

MEASUREMENT RESULT: "11A03308_BC_fin AV"

Frequency MHz	Level dBµV	Transd	Limit dB	Margin dBµV	Line	PE
0.208500	39.90	10.1	53	13.4	L1	GND
0.294000	37.90	10.1	50	12.6	L1	GND
0.334500	35.90	10.1	49	13.4	L1	GND
0.375000	38.70	10.1	48	9.7	L1	GND
0.798000	30.50	10.1	46	15.5	L1	GND
1.230000	30.30	10.1	46	15.7	L1	GND



MEASUREMENT RESULT: "11A03308_BIC_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line dB	PE
0.289500	48.00	10.1	61	12.6	L1	GND
0.330000	48.10	10.1	60	11.4	N	GND
0.388500	48.20	10.1	58	9.9	L1	GND
0.721500	44.10	10.1	56	11.9	L1	GND
0.784500	43.80	10.1	56	12.2	L1	GND
0.910500	40.00	10.1	56	16.0	N	GND

MEASUREMENT RESULT: "11A03308_BIC_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line dB	PE
0.208500	39.10	10.1	53	14.2	L1	GND
0.289500	37.70	10.1	51	12.8	L1	GND
0.375000	38.60	10.1	48	9.8	L1	GND
0.622500	27.80	10.1	46	18.2	N	GND
1.212000	30.60	10.1	46	15.4	L1	GND
2.731034	27.60	10.1	46	18.4	N	GND

ANNEX B: Photographs of the Test Set-up

Photo 1:

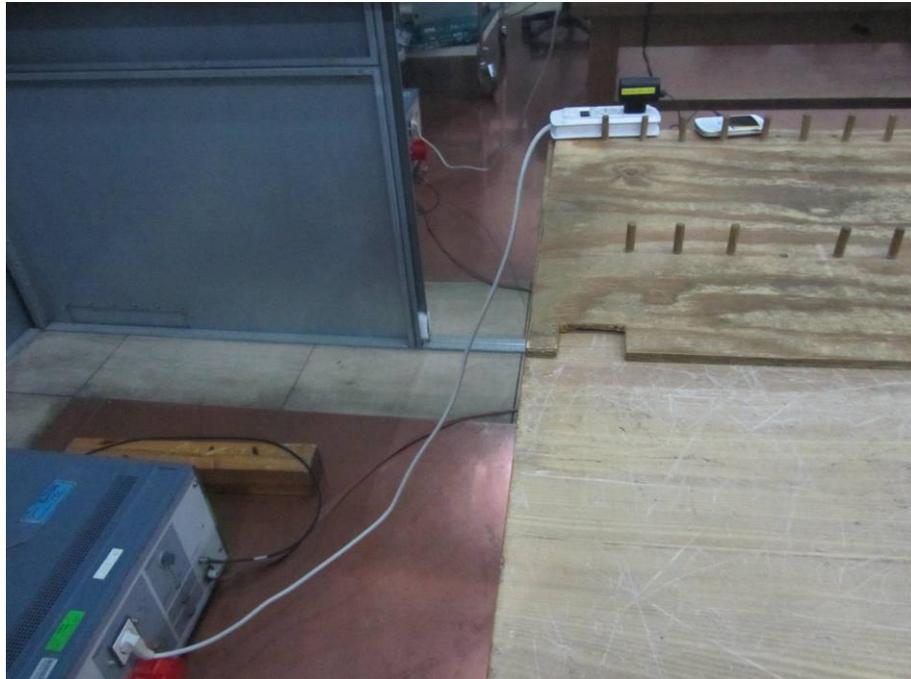
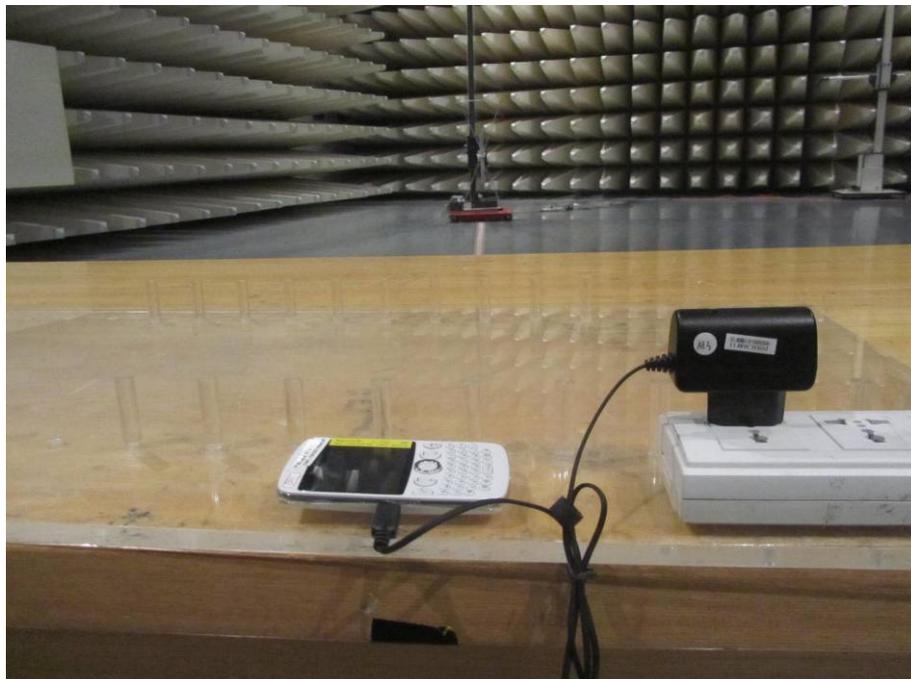


Photo 2:



ANNEX C: Photographs of the EUT



Mobile Phone



Mobile Phone



Mobile phone Disassembly



Mobile phone Disassembly



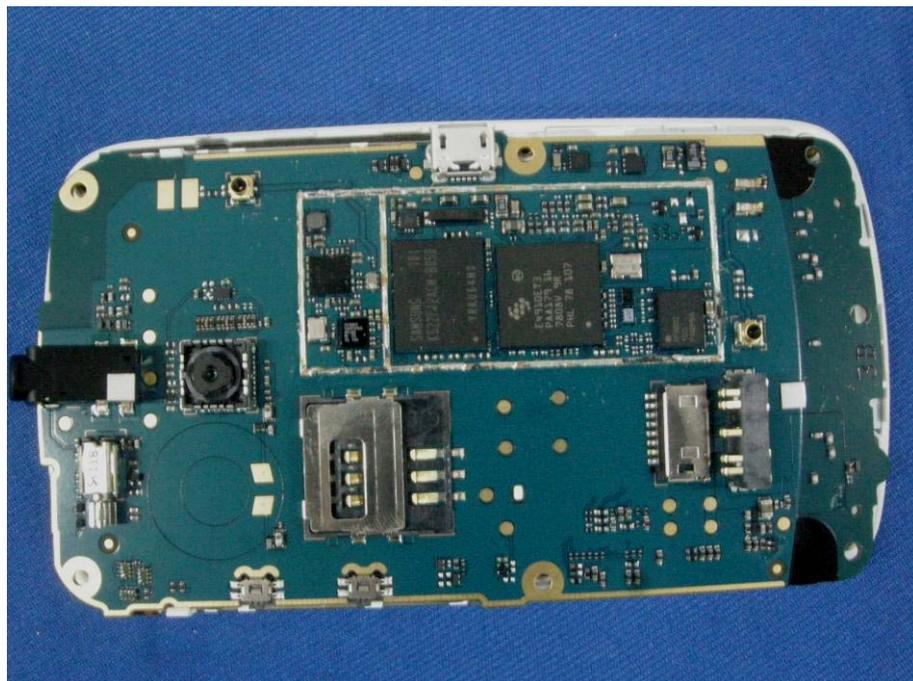
Mobile phone Disassembly



Mobile phone Disassembly



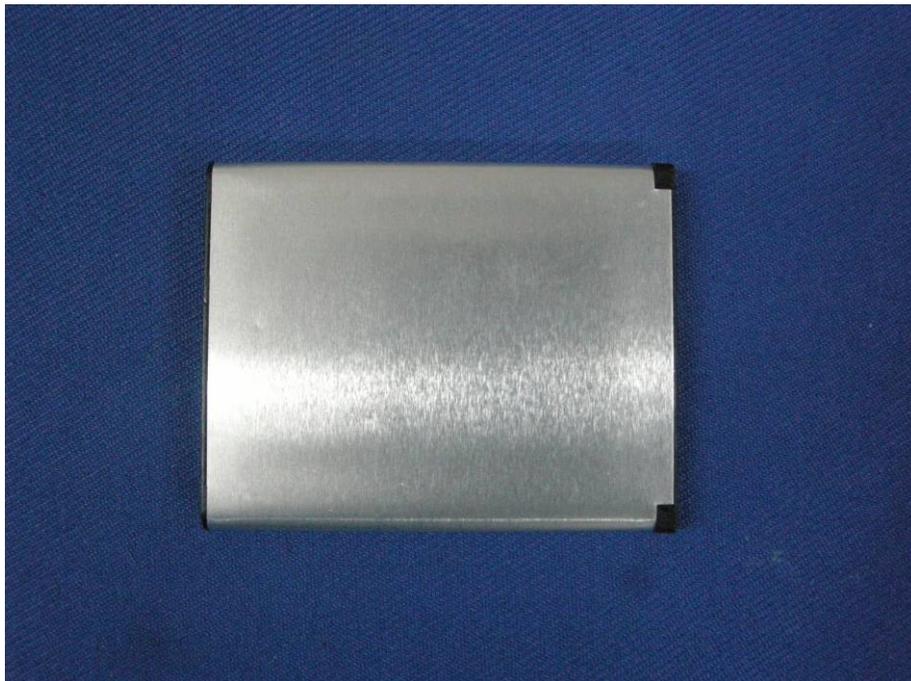
Mobile phone Disassembly



Mobile phone Disassembly



Battery



Battery



Travel Charger



Label of Travel Charger

*** END OF REPORT BODY ***