

TEST REPORT

REPORT NUMBER: I13GC9474-RF-BT

ON

Type of Equipment: GSM/GPRS(850/900/1800/1900MHz)
+BT Wireless Data Module

Type of Designation: SIM800H
Manufacturer: Shanghai SIMCom Wireless Solutions
Co.,Ltd.

ACCORDING TO

ETSI EN300 328 Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive. V1.7.1

China Telecommunication Technology Labs.

Month date, year
08,23 , 2013

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with ETSI EN300 328.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B&C.

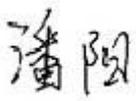
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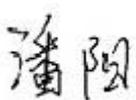
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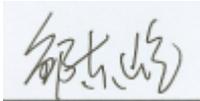
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Editor of this test report:

Name: Pan Yang
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Date: 2013-08-23
Signature: 

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1.3 Testing Laboratory information

1.3.1 Location

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Tel: +86 10 68094053
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1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity
Assessment (CNAS)
Registration number: CNAL Registration No.L0570
Standard: ISO/IEC 17025:2005

1.3.3 Test location, where different from section 1.3.1

Name: -----
Street: -----
City: -----
Country: -----
Telephone: -----
Fax: -----
Postcode: -----

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1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Shanghai SIMCom Wireless Solutions Co.,Ltd.
Address: Building A,SIM Technology Building,
No.633,Jinzhong Road,Changning District,Shanghai
R.R.China
Country: China
Telephone: 86-021-32523300

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: Shenyang Simcom Technology Ltd.
Address: No.37, Shenbei Rd, Shenbei New Aear, Shenyang,P.R.China

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: -----
Address: -----

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2 Test Item

2.1 General Information

Manufacturer: Shenyang Simcom Technology Ltd.
Name: GSM/GPRS(850/900/1800/1900MHz)+BT
Wireless Data Module
Model Number: SIM800H
Serial Number: 860719020004556
Production Status: Product
Receipt date of test item: 2013-08-21

2.2 Outline of EUT

E.U.T. is a GSM&WCDMA Mobile phone with Bluetooth.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	handset	Shenyang Simcom Technology Ltd.	SIM800H	-----	None

2.5 Other Information

Hardware version: V1.02
Software version: SIM800 R13.08

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3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Test Suites	Tested	Passed	Failed
Product RF Conformance Testing	6	6	0
Sum	6	6	0

Test Item List as follow:

NO.	Test Item Name
1	Maximum transmit power
2	Frequency range
3	Frequency hopping requirements
4	Medium Access Protocol
5	Transmitter spurious emissions (radiated & conducted)
6	Receiver spurious emissions (radiated & conducted)

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4 Test Results

4.1 Maximum Transmit Power

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.2

Measurement Limit:

Standard	Limit (dBm)
ETSI EN 300328 _ Clause 4.3.1	≤ 20

Measurement Uncertainty:

Measurement Uncertainty	±1.17dB
-------------------------	---------

Measurement Results:

The radiated E.I.R.P is listed below:

For GFSK

Channel	Frequency (MHz)	E.I.R.P (dBm)	Conclusion
0	2402	6.8	P
39	2441	7.0	P
78	2480	7.8	P

For 4 DQPSK

Channel	Frequency (MHz)	E.I.R.P (dBm)	Conclusion
0	2402	5.7	P
39	2441	6.1	P
78	2480	6.5	P

For 8DPSK

Channel	Frequency (MHz)	E.I.R.P (dBm)	Conclusion
0	2402	5.7	P
39	2441	6.0	P
78	2480	6.5	P

The conducted transmitter power is listed below:

Test Condition:

T min = -20 °C T nom = 25 °C T max = 55 °C

V min = 3.6 V V nom = 3.8 V V max = 4.2 V

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For GFSK

Test Condition		Transmitter peak output power (dBm)			Conclusion
		2402MHz (Ch0)	2441MHz (Ch39)	2480MHz (Ch78)	
Tnom	Vnom	4.83	3.96	4.23	P
Tmax	Vmax	3.49	3.92	4.12	P
	Vmin	3.46	3.90	4.10	P
Tmin	Vmax	3.89	3.00	3.27	P
	Vmin	3.85	3.00	3.25	P

For n/4 DQPSK

Test Condition		Transmitter peak output power (dBm)			Conclusion
		2402MHz (Ch0)	2441MHz (Ch39)	2480MHz (Ch78)	
Tnom	Vnom	3.37	2.51	2.81	P
Tmax	Vmax	3.50	2.67	2.92	P
	Vmin	3.48	2.65	2.90	P
Tmin	Vmax	2.37	1.48	1.73	P
	Vmin	2.35	1.47	1.72	P

For 8DPSK

Test Condition		Transmitter peak output power (dBm)			Conclusion
		2402MHz (Ch0)	2441MHz (Ch39)	2480MHz (Ch78)	
Tnom	Vnom	3.26	2.51	2.81	P
Tmax	Vmax	3.50	2.67	2.91	P
	Vmin	3.48	2.65	2.90	P
Tmin	Vmax	2.28	1.41	1.69	P
	Vmin	2.27	1.40	1.65	P

Conclusion: PASS

4.2 Frequency Range

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.4-option1.

Measurement Limit:

Standard	Limit (MHz)
ETSI EN 300328 _ Clause 4.3.3	$f_L > 2400.0$
	$f_H < 2483.5$

EN300328
Equipment:
SIM800H

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Measurement Uncertainty:

Measurement Uncertainty	±60.8Hz
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Measurement Results:

Test Condition:

T min = -20 °C T nom = 25 °C T max = 55 °C

V min = 3.6 V V nom = 3.8 V V max = 4.2 V

For GFSK

Test Condition		FREQUENCY(MHz)			
		f _L		f _H	
Tnom	Vnom	Fig.1	2401.635	Fig.2	2480.198
Tmax	Vmax	Fig.3	2401.683	Fig.4	2480.442
	Vmin	Fig.5	2401.683	Fig.6	2480.442
Tmin	Vmax	Fig.7	2401.663	Fig.8	2480.288
	Vmin	Fig.9	2401.663	Fig.10	2480.288
Conclusion		P		P	

Forn/4 DQPSK

Test Condition		FREQUENCY(MHz)			
		f _L		f _H	
Tnom	Vnom	Fig.11	2401.500	Fig.12	2480.404
Tmax	Vmax	Fig.13	2401.789	Fig.14	2480.221
	Vmin	Fig.15	2401.789	Fig.16	2480.221
Tmin	Vmax	Fig.17	2401.606	Fig.18	2480.404
	Vmin	Fig.19	2401.606	Fig.20	2480.404
Conclusion		P		P	

For 8DPSK

Test Condition		FREQUENCY(MHz)			
		f _L		f _H	
Tnom	Vnom	Fig.21	2401.500	Fig.22	2480.404
Tmax	Vmax	Fig.23	2401.779	Fig.24	2480.125
	Vmin	Fig.25	2401.779	Fig.26	2480.375
Tmin	Vmax	Fig.27	2401.548	Fig.28	2480.375
	Vmin	Fig.29	2401.548	Fig.30	2480.375
Conclusion		P		P	

Note: The antenna gain and duty cycle of DUT have been calculated and add to the measurement as an amplitude offset.

See ANNEX A for test graphs.

Conclusion: PASS

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Equipment:
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4.3 Frequency Hopping Requirements

4.3.1 Dwell time

Measurement Limit:

Standard	Limit
ETSI EN 300328 _ Clause 4.3.4.1	< 400 ms

Measurement Uncertainty:

Measurement Uncertainty	±0.088ms
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Measurement Results:

For GFSK

Channel	Packet	Dwell Time(ms)		Conclusion
Ch 39	DH5	Fig.31	2.88	p
		Fig.32		

For n/4 DQPSK

Channel	Packet	Dwell Time(ms)		Conclusion
Ch 39	2-DH5	Fig.33	2.88	p
		Fig.34		

For 8DPSK

Channel	Packet	Dwell Time(ms)		Conclusion
Ch 39	3-DH5	Fig.35	2.88	p
		Fig.36		

See ANNEX C for test graphs.

Conclusion: Pass

4.3.2 Hopping channel

Measurement Limit:

Standard	Limit
ETSI EN 300328 _ Clause 4.3.4.2	>= 1MHz

Measurement Uncertainty:

Measurement Uncertainty	±60.8Hz
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Measurement Results:

For GFSK

Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.37	P

See ANNEX A for test graphs.

Conclusion: Pass

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4.3.3 Hopping sequence

Measurement Limit:

Standard	Limit
ETSI EN 300328 _ Clause 4.3.4.3	At least 15 non-overlapping channels

Measurement Result:

For GFSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.38	P
40~78	Fig.39	

See ANNEX C for test graphs.

Conclusion: Pass

4.4 Medium Access Protocol

Standard: ETSI EN 300 328 _ Clause 4.3.5

A medium access protocol is implemented by the equipment.

Conclusion: Pass

4.5 Transmission Spurious Emission (Radiated & Conducted)

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.5.

Measurement Limit:

Standard	Frequency Range	Limits
ETSI EN 300 328 _ Clause 4.3.6	30MHz~1GHz	< -36 dBm
	1GHz~12.75GHz	< -30 dBm
	1.8GHz ~ 1.9GHz	< -47 dBm
	5.15GHz ~ 5.3 GHz	

Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz ≤ f ≤ 2GHz	±1.13
2GHz ≤ f ≤ 3.6GHz	±1.16
3.6GHz ≤ f ≤ 8GHz	±2.45
8GHz ≤ f ≤ 12.75GHz	±2.99

4.5.1 Transmitter Spurious Emission – Radiated

Measurement Result:

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For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 12.75GHz	Fig.40	P

See ANNEX A for test graphs.

Conclusion: Pass

4.5.2 Transmitter Spurious Emission –Conducted

Measurement Result:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	2402 MHz	Fig.41	P
	30 MHz ~ 3 GHz	Fig.42	P
	3 GHz ~ 12.75 GHz	Fig.43	P
Ch 78 2480 MHz	2480 MHz	Fig.44	P
	30 MHz ~ 3 GHz	Fig.45	P
	3 GHz ~ 12.75 GHz	Fig.46	P

Forn/4 DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	2402 MHz	Fig.47	P
	30 MHz ~ 3 GHz	Fig.48	P
	3 GHz ~ 12.75 GHz	Fig.49	P
Ch 78 2480 MHz	2480 MHz	Fig.50	P
	30 MHz ~ 3 GHz	Fig.51	P
	3 GHz ~ 12.75 GHz	Fig.52	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	2402 MHz	Fig.53	P
	30 MHz ~ 3 GHz	Fig.54	P
	3 GHz ~ 12.75 GHz	Fig.55	P
Ch 78 2480 MHz	2480 MHz	Fig.56	P
	30 MHz ~ 3 GHz	Fig.57	P
	3 GHz ~ 12.75 GHz	Fig.58	P

See ANNEX A for test graphs.

Conclusion: Pass

4.6 Receiver Spurious Emission (Radiated & Conducted)

Method of Measurement: See EN 300328 v1.7.1 clause 5.7.6.

Measurement Limit:

EN300328
Equipment:
SIM800H

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Standard	Limits (dBm)	
ETSI EN 300 328 _ Clause 4.3.7	30 MHz to 1 GHz	< - 57
	1 GHz to 12.75 GHz	< - 47

Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz ≤ f ≤ 2GHz	±1.13
2GHz ≤ f ≤ 3.6GHz	±1.16
3.6GHz ≤ f ≤ 8GHz	±2.45
8GHz ≤ f ≤ 12.75GHz	±2.99

4.6.1 Receiver Spurious Emissions – Radiated

Measurement Result:

Mode	Frequency Range	Test Results	Conclusion
Idle	30 MHz ~ 12.75GHz	Fig.59	P

Comment: The EUT is set to standby mode. And the plots are valid for low, mid & high channels

See ANNEX A for test graphs.

Conclusion: Pass

4.6.2 Receiver Spurious Emissions –Conducted

Measurement Result:

Channel	Frequency Range	Test Results	Conclusion
Idle	30 MHz ~ 1 GHz	Fig.60	P
	1 GHz ~ 6 GHz	Fig.61	P
	6 GHz ~ 12.75 GHz	Fig.62	P

Comment: The EUT is set to standby mode. And the results are valid for low, mid & high channels

See ANNEX A for test graphs.

Conclusion: Pass

5 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2013-01-10	Normal
7330	EMI Test Receiver	R/S	ESI40	839283/007	2013-02-14	Normal
7330	Ultra Broadband	R/S	VULB 9160	vulb9160-3252	2013-09-05	Normal
7330	Double-Ridge d Horn	R/S	HF906	100037	2014-01-23	Normal
713	Fully-Anechoic	ETS	11.8m×6.5m×6.3m	--	2013-11-16	Normal
7330-2	Radio Communicatio	Anritsu	MT8820B	6200772659	2013-01-27	Normal
714	Shielding Room	ETS	--	19003	2013-11-15	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2013-04-06	Normal
7330	Harmonic and flicker	EMTEST	DPA503	0899-10	2013-02-15	Normal
7330	AC Mains	EMTEST	HFS500	HK53668	2013-01-15	Normal
7330	Signal Generator	R/S	SMY02	100024	2013-10-25	Normal
7330	Power Meter	R/S	NRVS	100085	2014-01-06	Normal

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7330	Power Meter	R/S	NRVS	100231	2014-01-06	Normal
7063	Electrostatic Discharge	EMTEST	Dito	V0552101007	2013-11-19	Normal
7064	EFT/Burst Generator	EM TEST	EFT500	V0552101009	2013-08-13	Normal
7330	Coupling Decoupling	Luthi	801-M2/M3	1821	2013-01-17	Normal
7114	Mains Interference	EM TEST	UCS500M4	V0552101008	2014-01-05	Normal
7777	Surge Generator	EMCPARTNER	TRA2000	1013	2013-03-21	Normal

Anechoic chamber

Fully anechoic chamber by Frankonia German.

6 Test 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

Fully-anechoic chamber1 (6.8 meters×3.08 meters×3.53 meters) 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
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Fully-anechoic chamber2 (Tapered Section: 8.75 meters×3.66 meters×3.66

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meters, Rectangular Section: 7.32 meters×3.97 meters×3.66 meters) did not exceed following limits along the EMC testing:

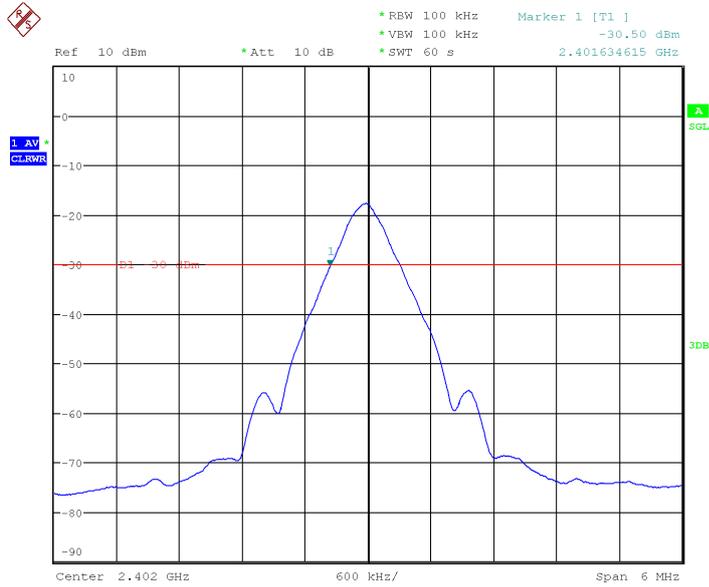
Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 30MHz to 40000MHz

CITL Test Report

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Equipment:
SIM800H

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ANNEX A: TEST FIGURE LIST

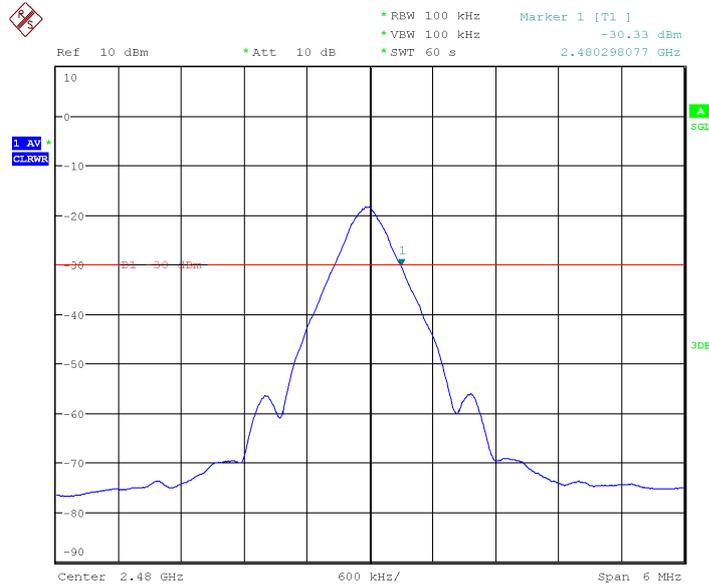


Date: 20.AUG.2013 11:17:06

Fig. 1 Frequency range: Channel 0, GFSK, Tnom, Vnom

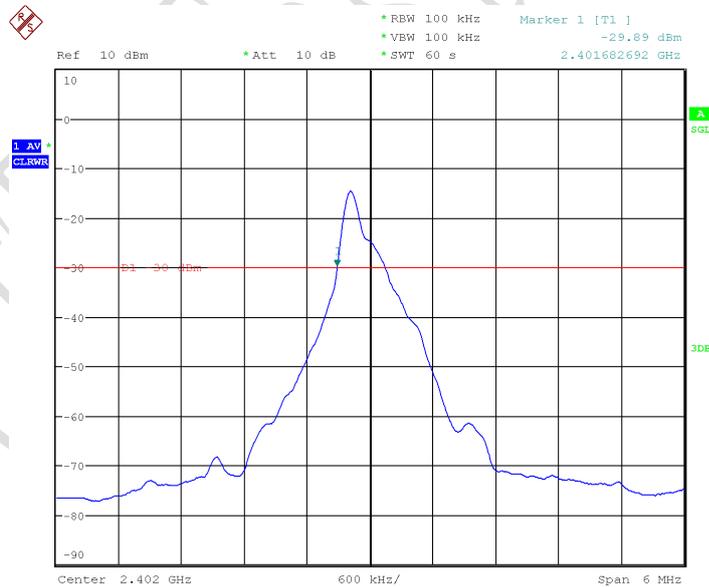
EN300328
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Fig. 2 Frequency range: Channel 78, GFSK, Tnom, Vnom

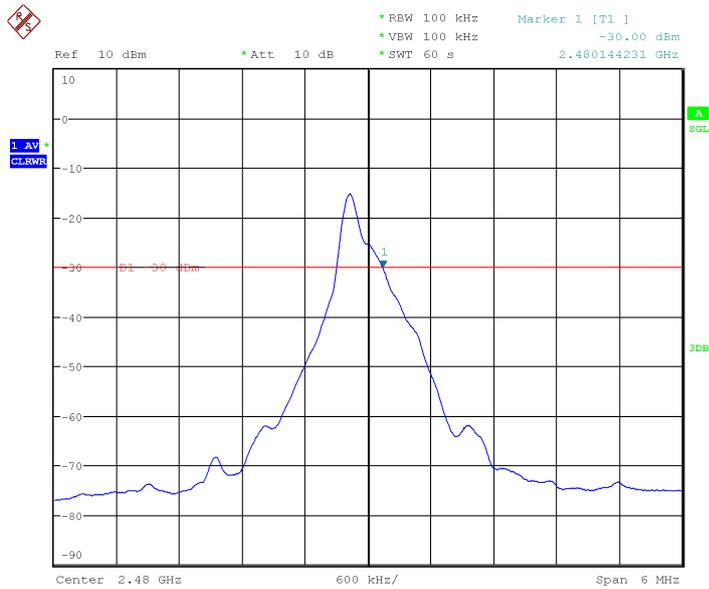


Date: 20.AUG.2013 15:17:04

Fig. 3 Frequency range: Channel 0, GFSK, Tmax, Vmax

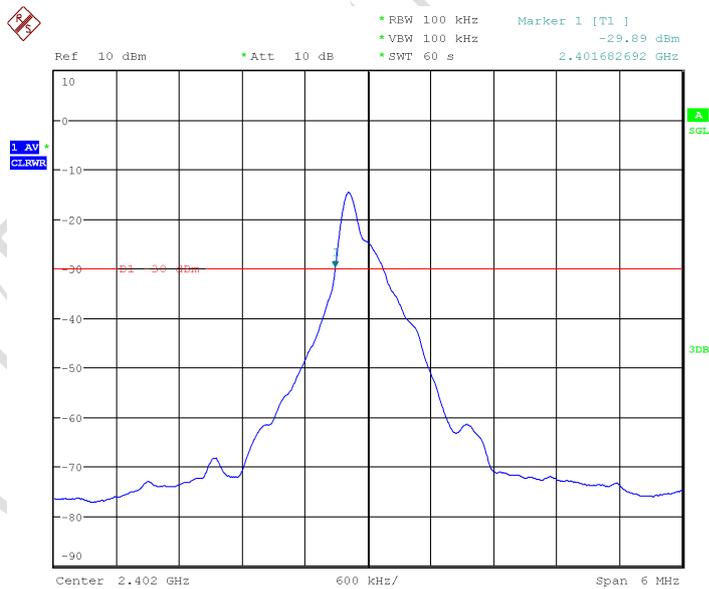
EN300328
Equipment:
SIM800H

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Fig. 4 Frequency range: Channel 78, GFSK, Tmax, Vmax

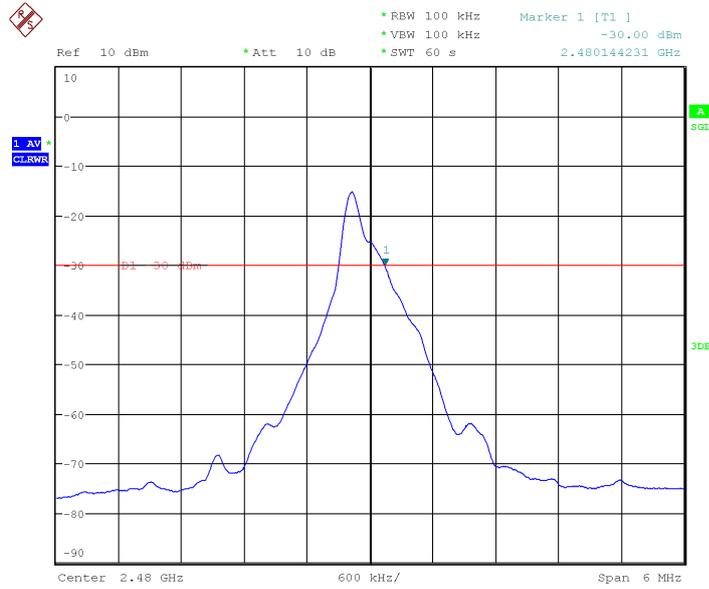


Date: 20.AUG.2013 15:17:29

Fig. 5 Frequency range: Channel 0, GFSK, Tmax, Vmin

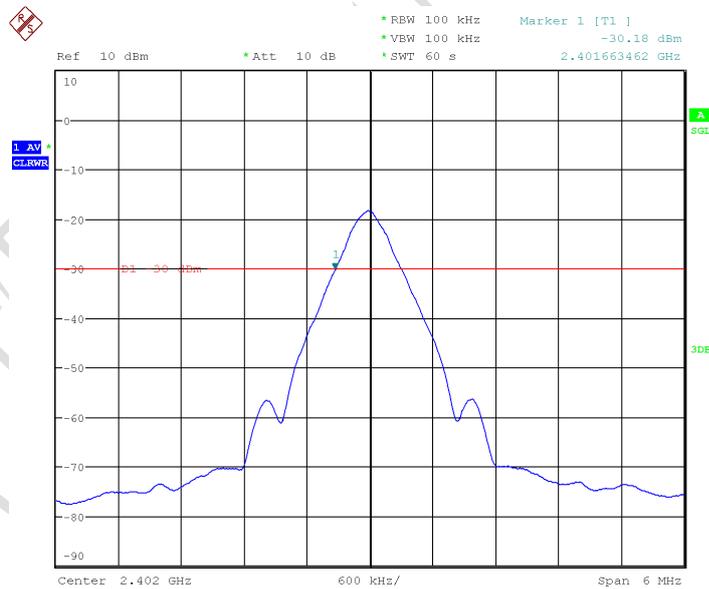
EN300328
Equipment:
SIM800H

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Fig. 6 Frequency range: Channel 78, GFSK, Tmax, Vmin

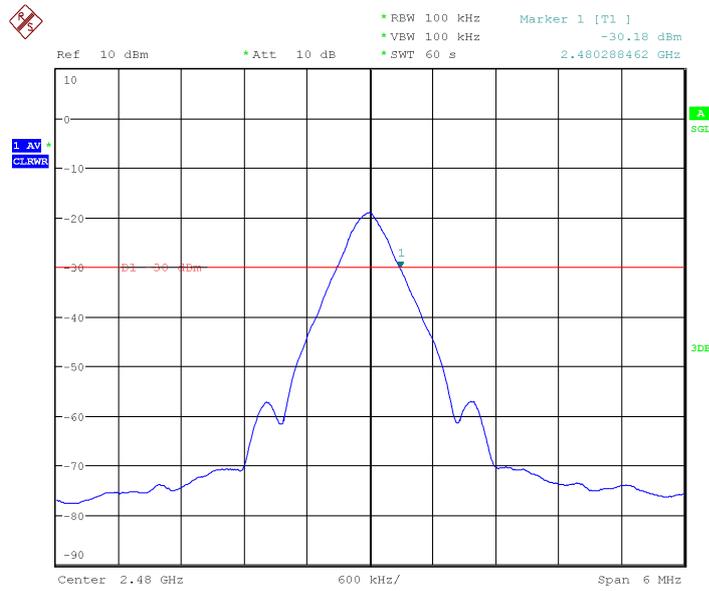


Date: 20.AUG.2013 14:20:42

Fig. 7 Frequency range: Channel 0, GFSK, Tmin, Vmax

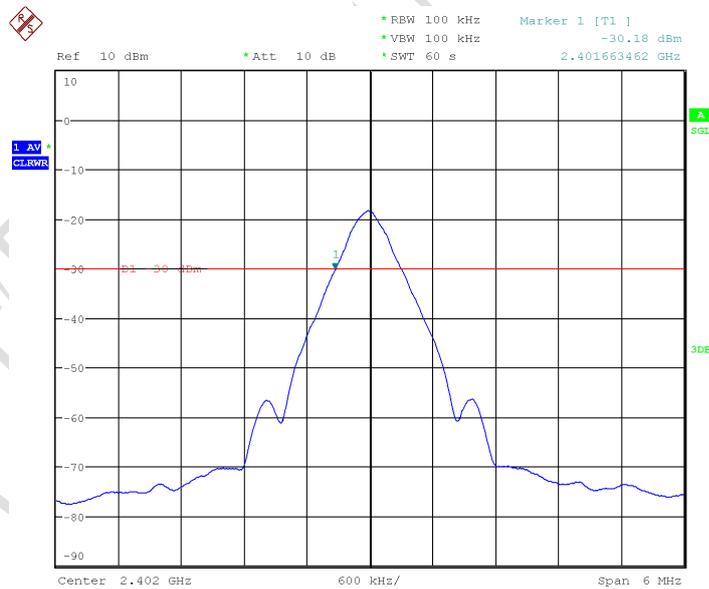
EN300328
Equipment:
SIM800H

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Date: 20.AUG.2013 14:31:35

Fig. 8 Frequency range: Channel 78, GFSK, Tmin, Vmax

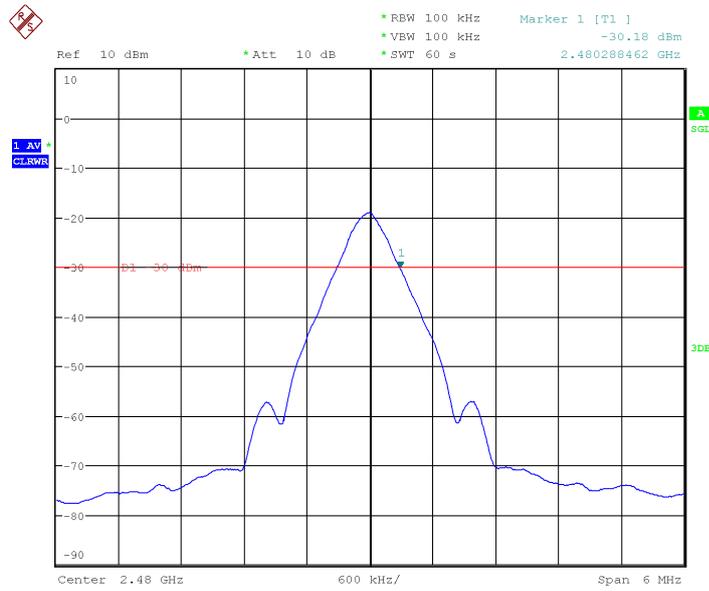


Date: 20.AUG.2013 14:20:58

Fig. 9 Frequency range: Channel 0, GFSK, Tmin, Vmin

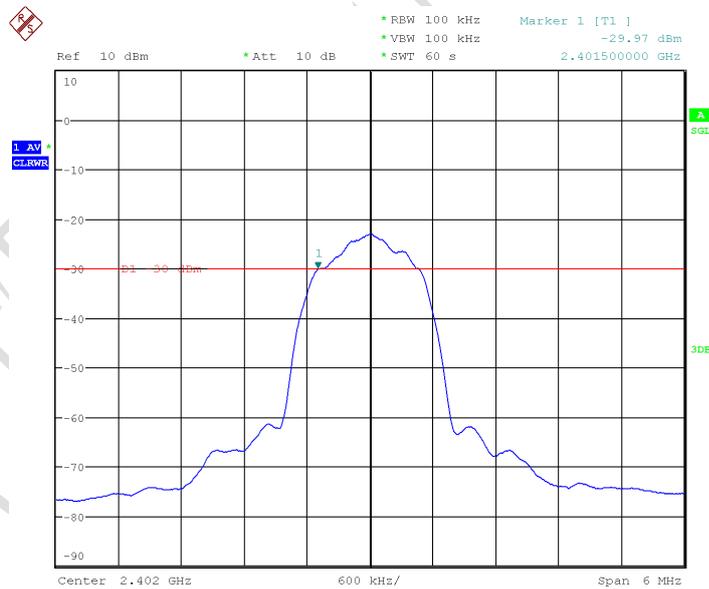
EN300328
Equipment:
SIM800H

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Fig. 10 Frequency range: Channel 78, GFSK, Tmin, Vmin

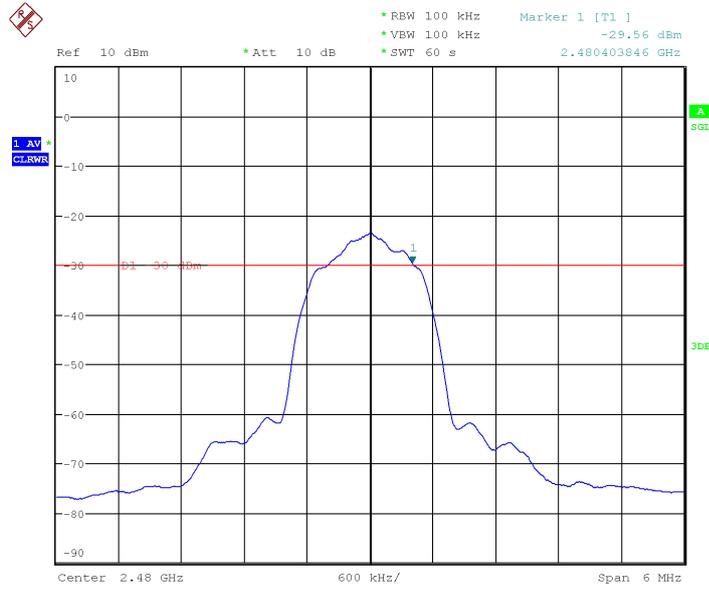


Date: 20.AUG.2013 11:18:40

Fig. 11 Frequency range: Channel 0, $\pi/4$ DQPSK, Tnom, Vnom

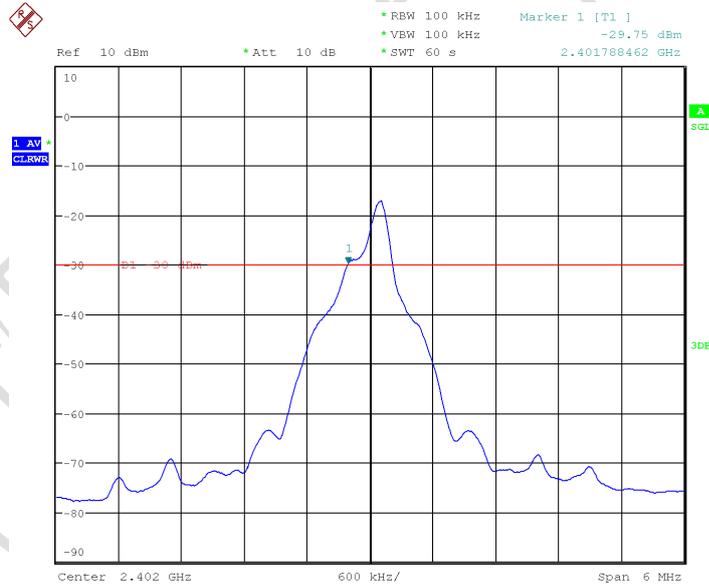
EN300328
Equipment:
SIM800H

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Date: 20.AUG.2013 11:27:18

Fig. 12 Frequency range: Channel 78, $\pi/4$ DQPSK, Tnom, Vnom

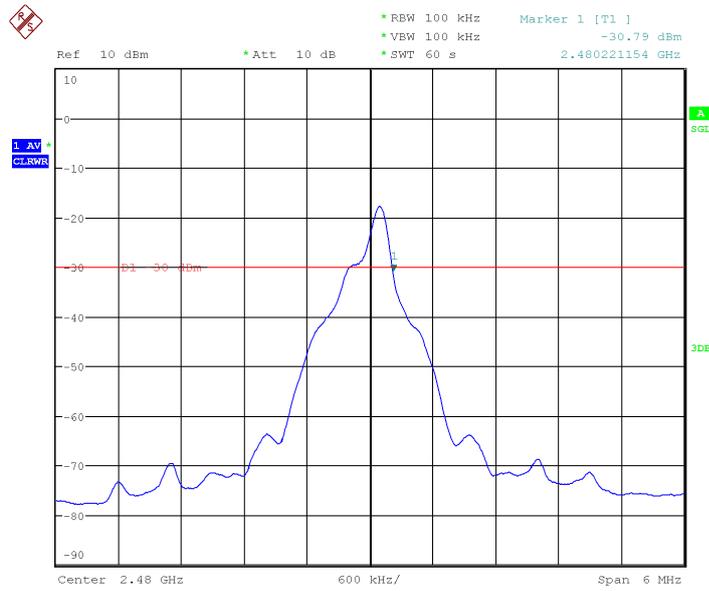


Date: 20.AUG.2013 15:19:50

Fig. 13 Frequency range: Channel 0, $\pi/4$ DQPSK, Tmax, Vmax

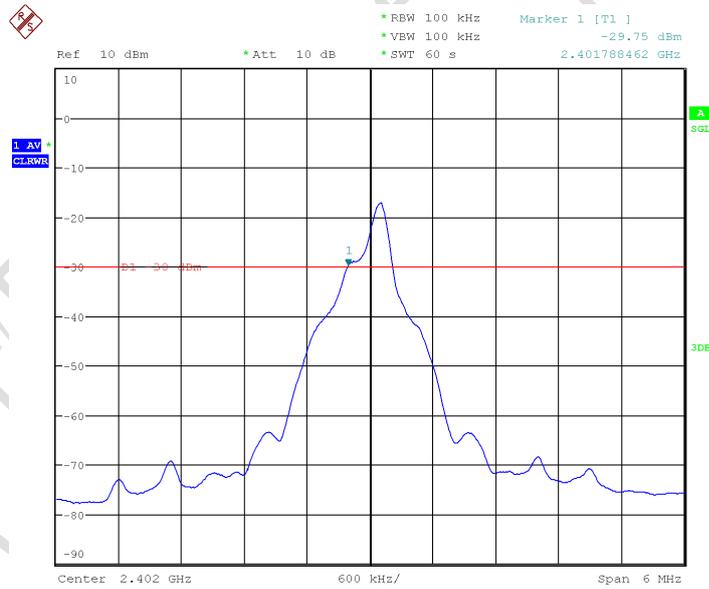
EN300328
Equipment:
SIM800H

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Date: 20.AUG.2013 15:38:50

Fig. 14 Frequency range: Channel 78, $\pi/4$ DQPSK, Tmax, Vmax

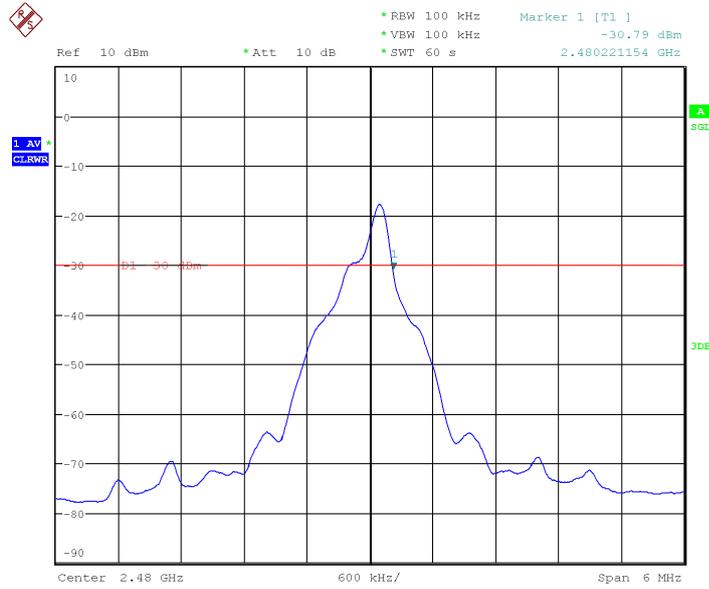


Date: 20.AUG.2013 15:19:50

Fig. 15 Frequency range: Channel 0, $\pi/4$ DQPSK, Tmax, Vmin

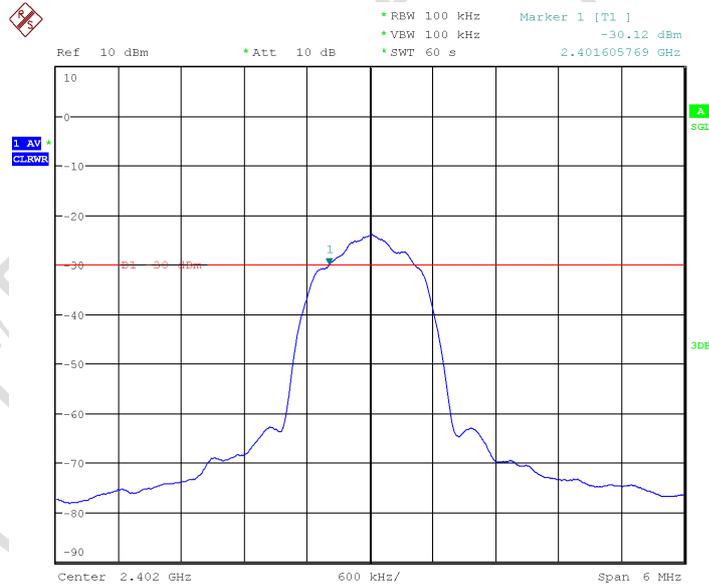
EN300328
Equipment:
SIM800H

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Fig. 16 Frequency range: Channel 78, $\pi/4$ DQPSK, T_{max}, V_{min}

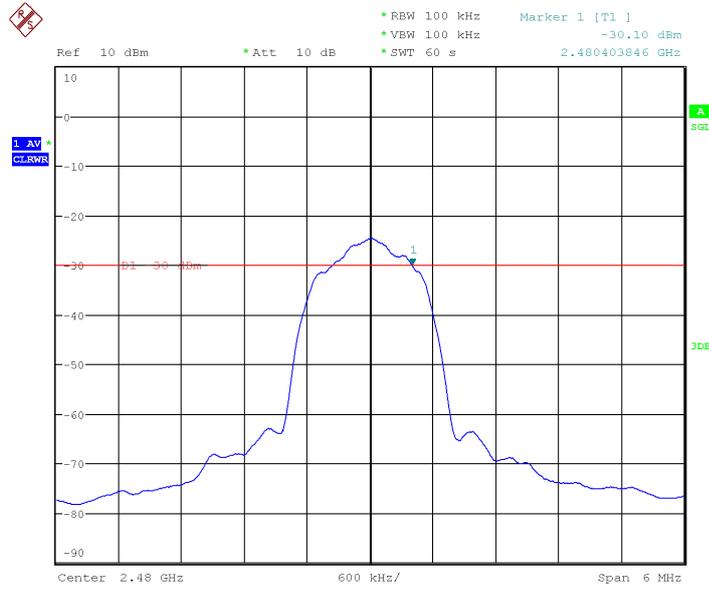


Date: 20.AUG.2013 14:22:31

Fig. 17 Frequency range: Channel 0, $\pi/4$ DQPSK, T_{min}, V_{max}

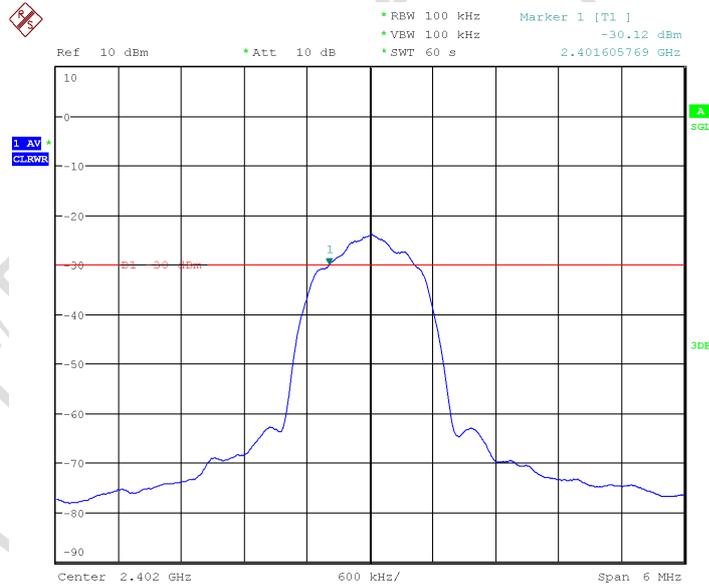
EN300328
Equipment:
SIM800H

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Date: 20.AUG.2013 14:34:40

Fig. 18 Frequency range: Channel 78, $\pi/4$ DQPSK, Tmin, Vmax

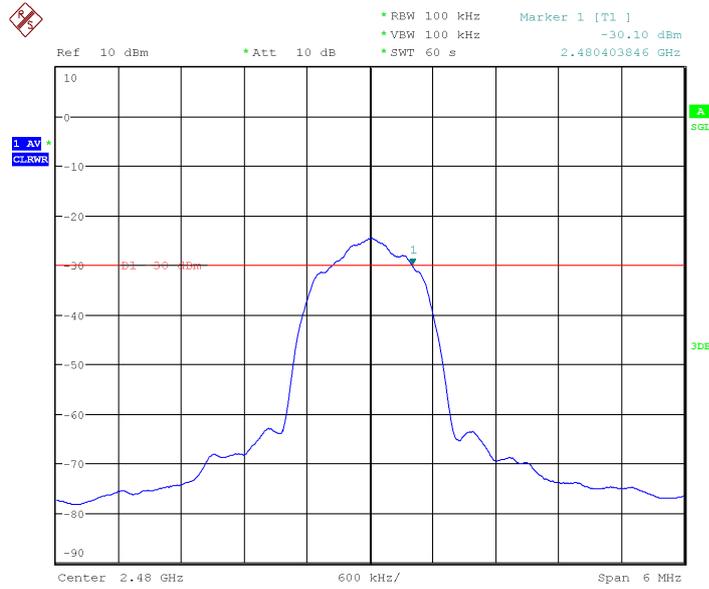


Date: 20.AUG.2013 14:22:42

Fig. 19 Frequency range: Channel 0, $\pi/4$ DQPSK, Tmin, Vmin

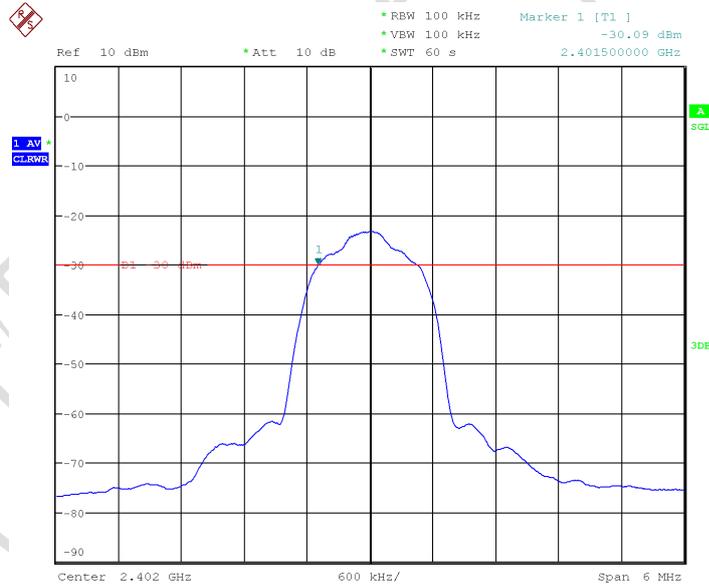
EN300328
Equipment:
SIM800H

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Fig. 20 Frequency range: Channel 78, $\pi/4$ DQPSK, Tmin, Vmin

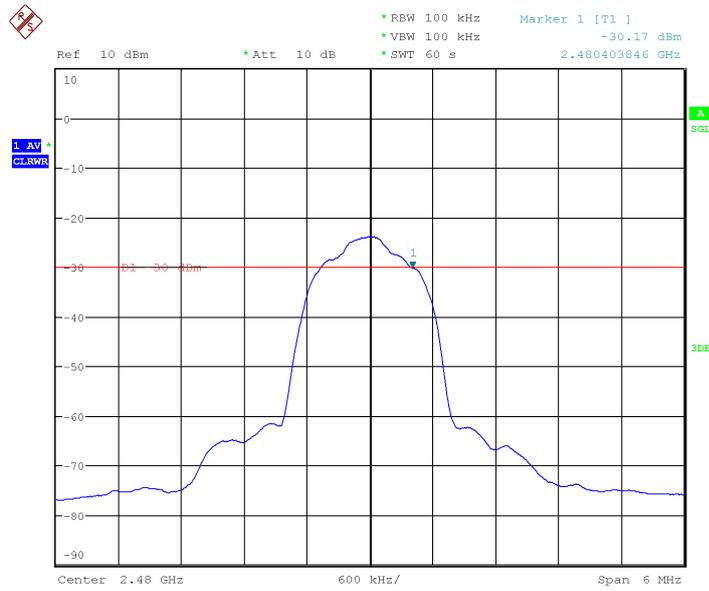


Date: 20.AUG.2013 11:20:57

Fig. 21 Frequency range: Channel 0, 8DPSK, Tnom, Vnom

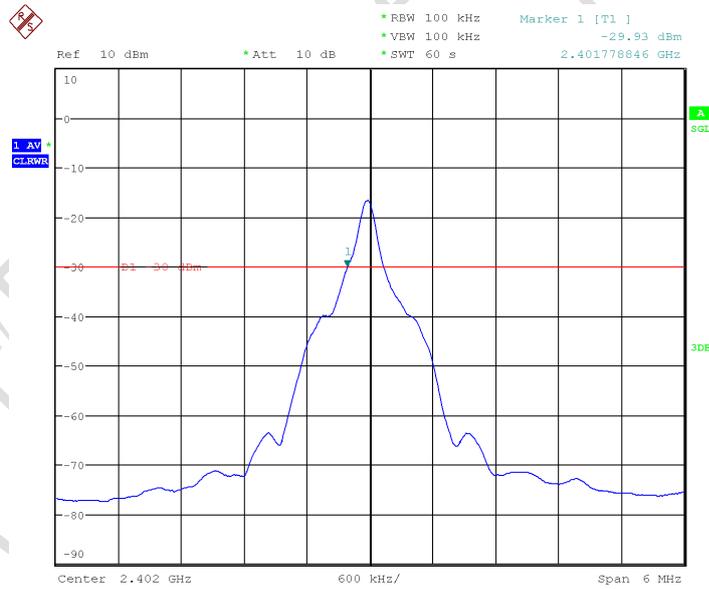
EN300328
Equipment:
SIM800H

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Fig. 22 Frequency range: Channel 78, 8DPSK, Tnom, Vnom

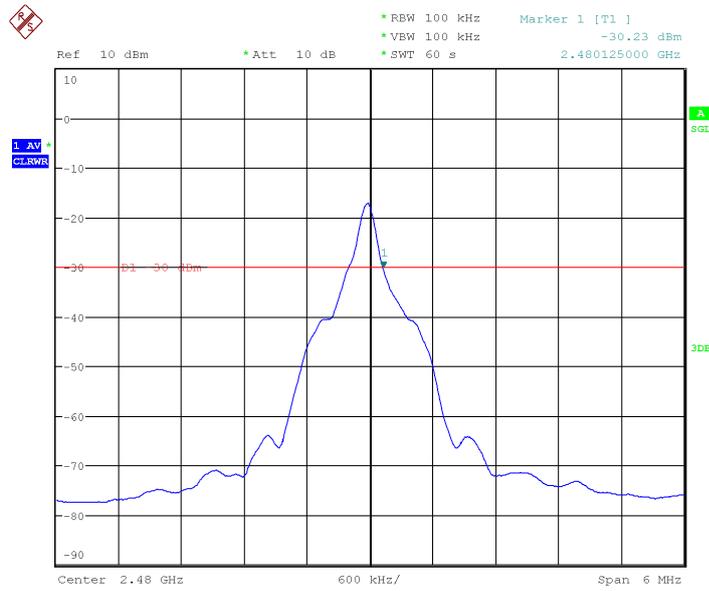


Date: 20.AUG.2013 15:44:26

Fig. 23 Frequency range: Channel 0, 8DPSK, Tmax, Vmax

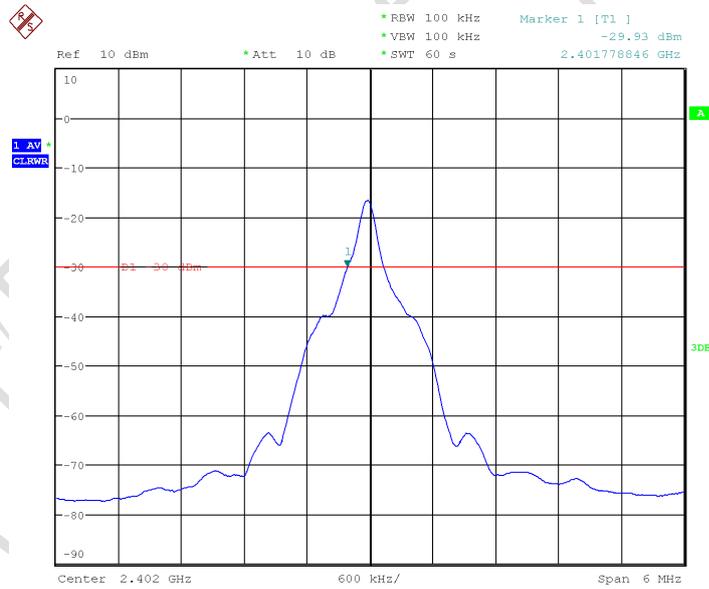
EN300328
Equipment:
SIM800H

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Fig. 24 Frequency range: Channel 78, 8DPSK, Tmax, Vmax

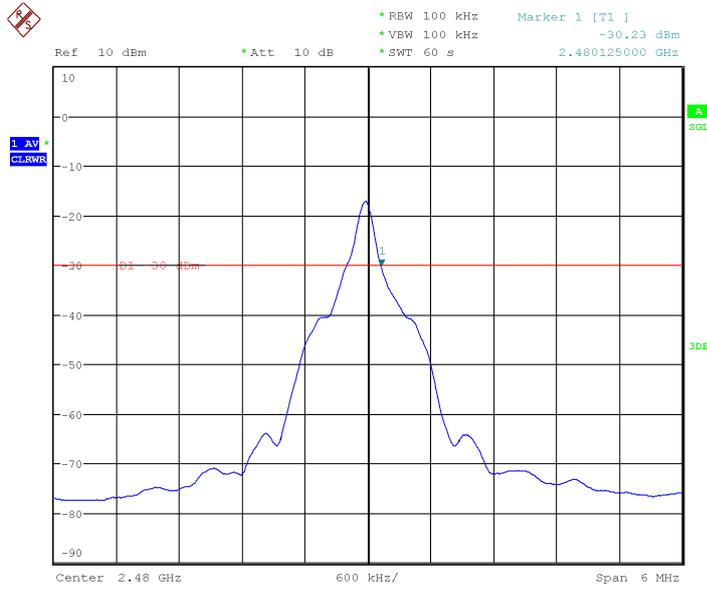


Date: 20.AUG.2013 15:44:37

Fig. 25 Frequency range: Channel 0, 8DPSK, Tmax, Vmin

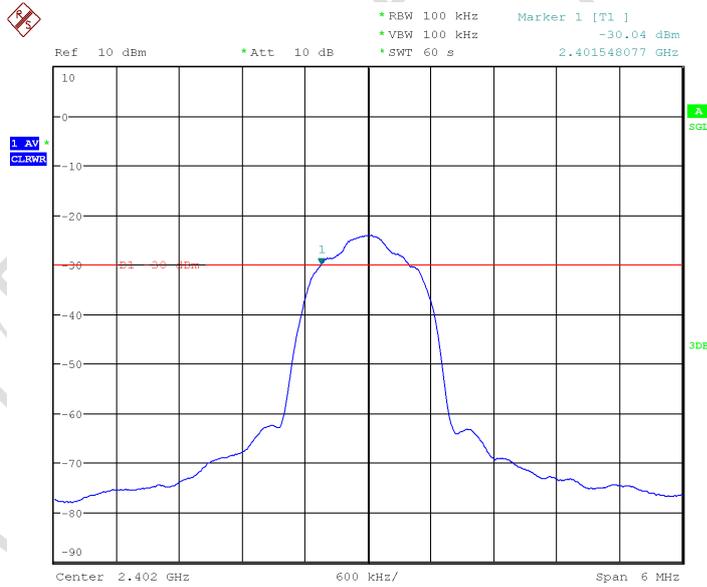
EN300328
Equipment:
SIM800H

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Date: 20.AUG.2013 15:42:35

Fig. 26 Frequency range: Channel 78, 8DPSK, Tmax, Vmin

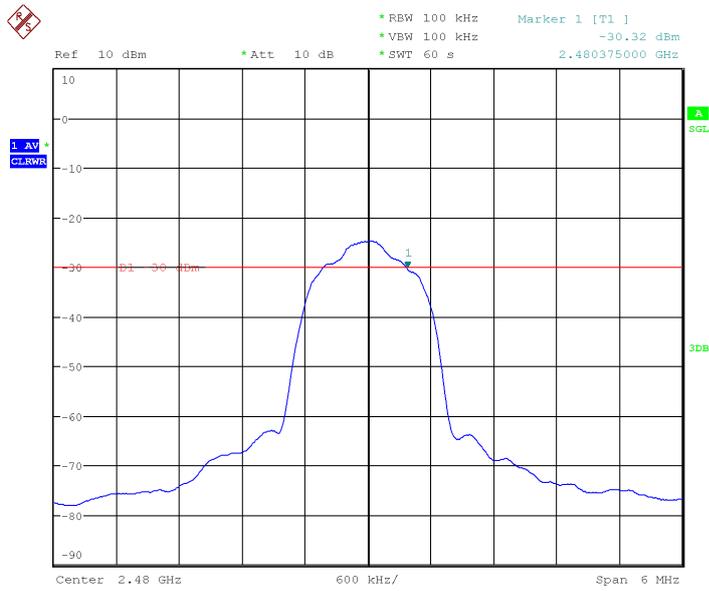


Date: 20.AUG.2013 14:25:31

Fig. 27 Frequency range: Channel 0, 8DPSK, Tmin, Vmax

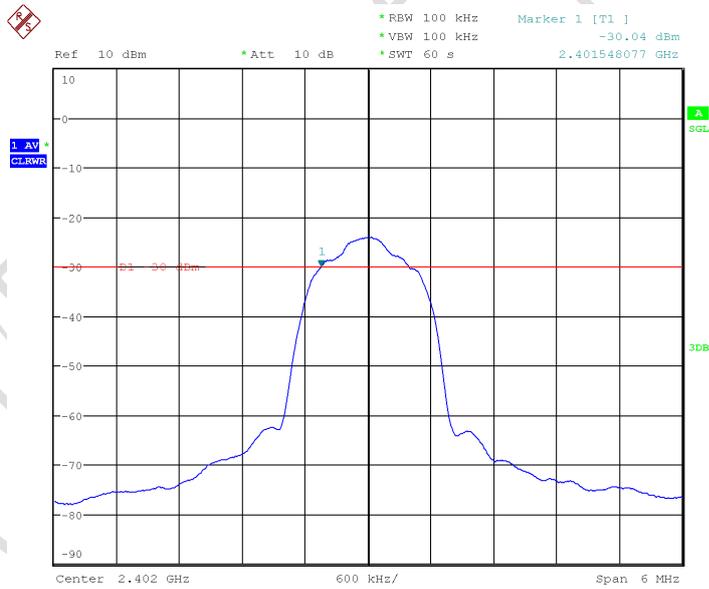
EN300328
Equipment:
SIM800H

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Fig. 28 Frequency range: Channel 78, 8DPSK, Tmin, Vmax

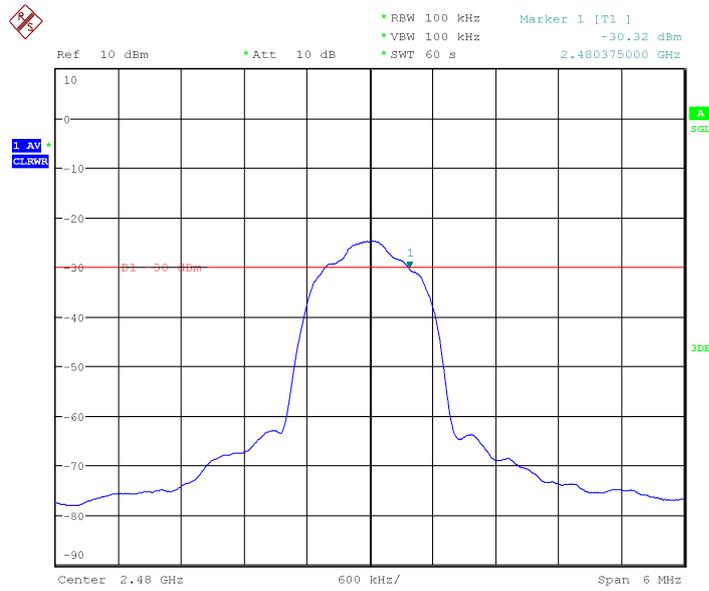


Date: 20.AUG.2013 14:25:36

Fig. 29 Frequency range: Channel 0, 8DPSK, Tmin, Vmin

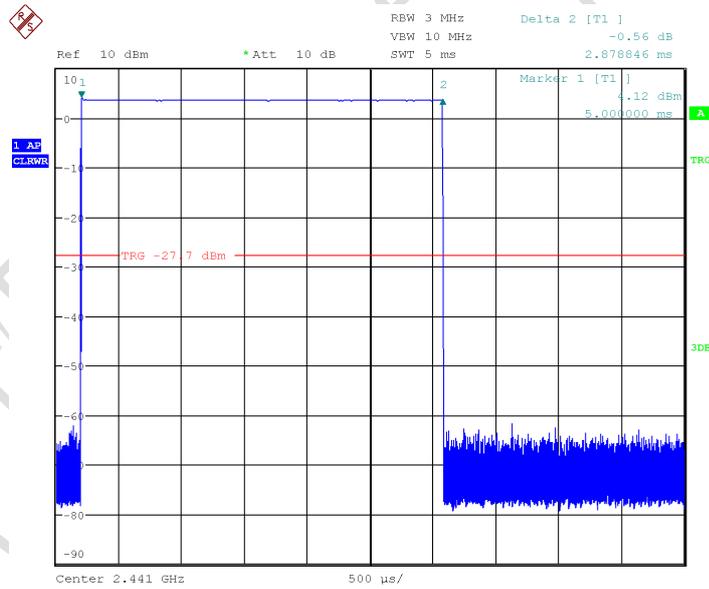
EN300328
Equipment:
SIM800H

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Fig. 30 Frequency range: Channel 78, 8DPSK, Tmin, Vmin

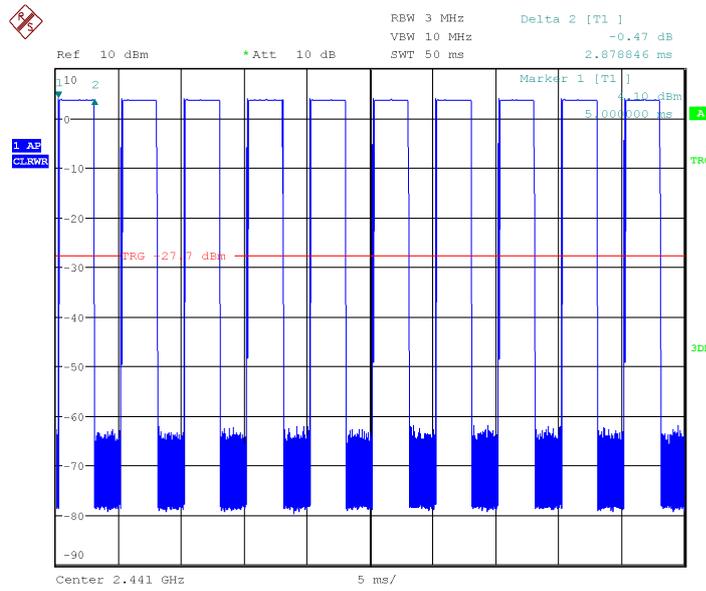


Date: 20.AUG.2013 13:21:26

Fig. 31 Time of Occupancy Measurement at Channel 39, DH5

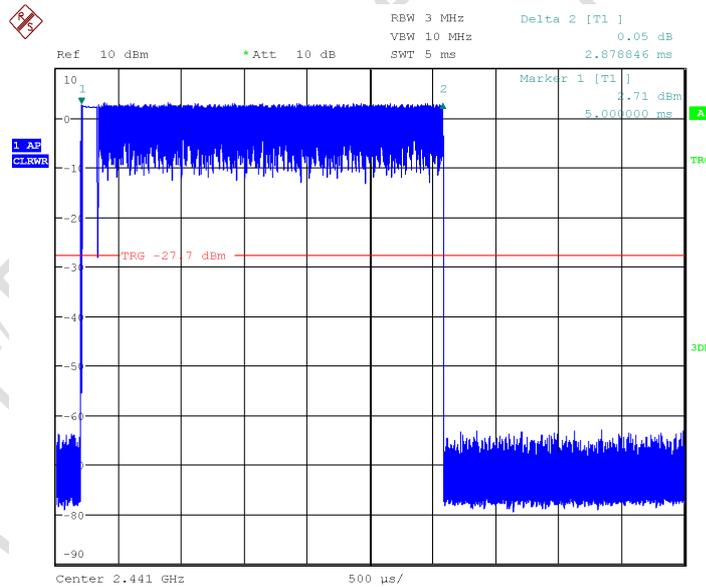
EN300328
Equipment:
SIM800H

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Fig. 32 Number of Transmissions Measurement at Channel 39, DH5

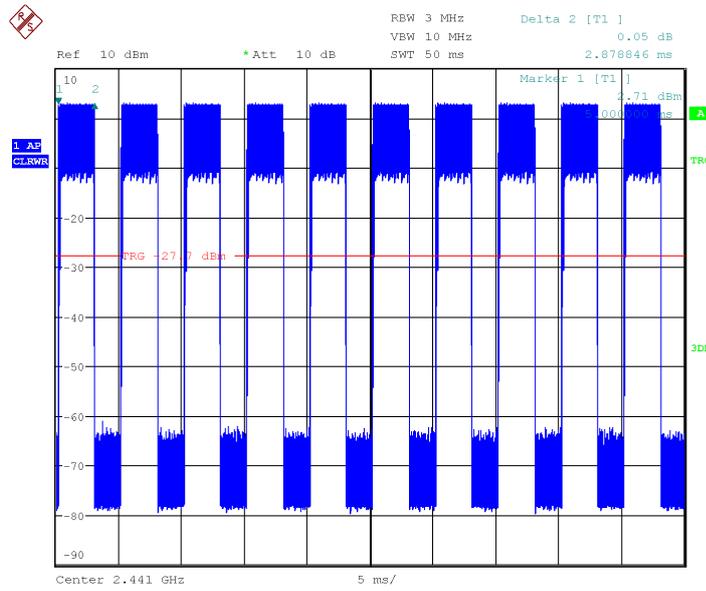


Date: 20.AUG.2013 13:21:56

Fig. 33 Time of Occupancy Measurement at Channel 39, 2-DH5

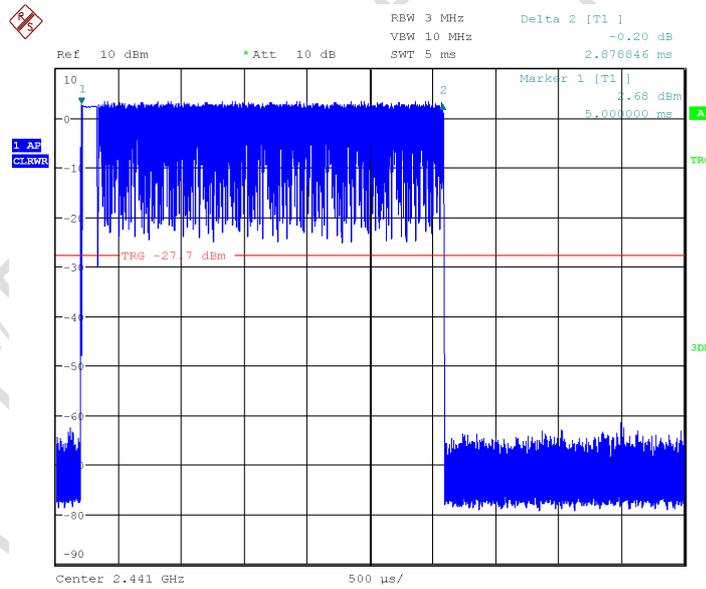
EN300328
Equipment:
SIM800H

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Fig. 34 Number of Transmissions Measurement at Channel 39, 2-DH5

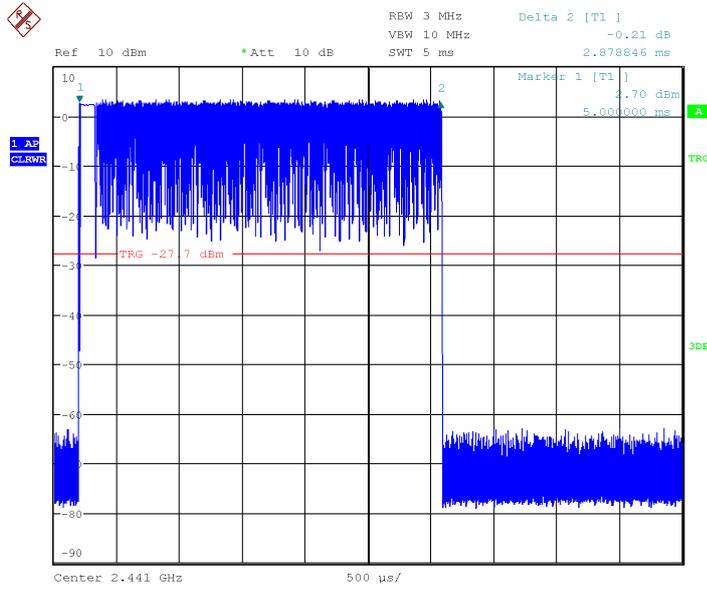


Date: 20.AUG.2013 13:23:11

Fig. 35 Time of Occupancy Measurement at Channel 39, 3-DH5

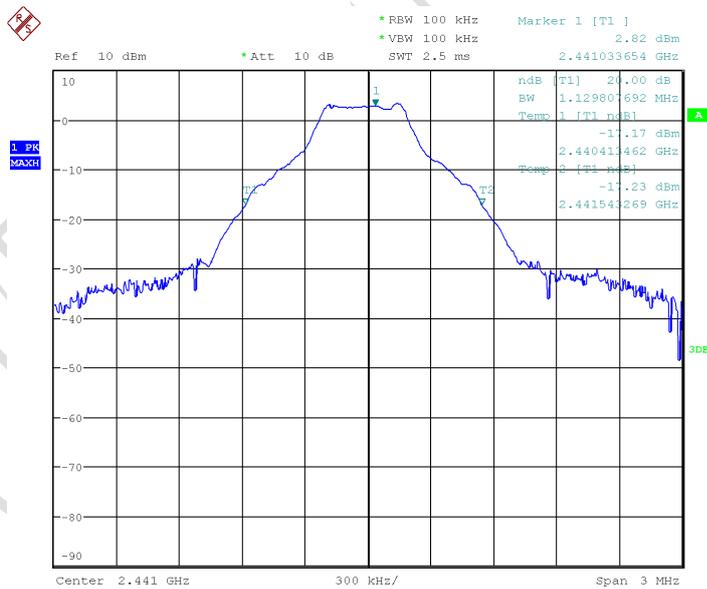
EN300328
Equipment:
SIM800H

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Fig. 36 Number of Transmissions Measurement at Channel 39, 3-DH5

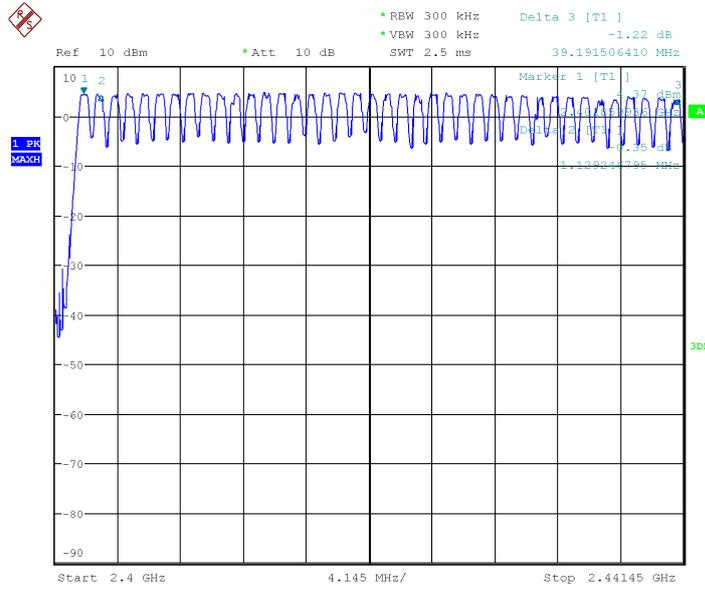


Date: 20.AUG.2013 13:25:12

Fig. 37 GFSK_hopping channel_channel 39

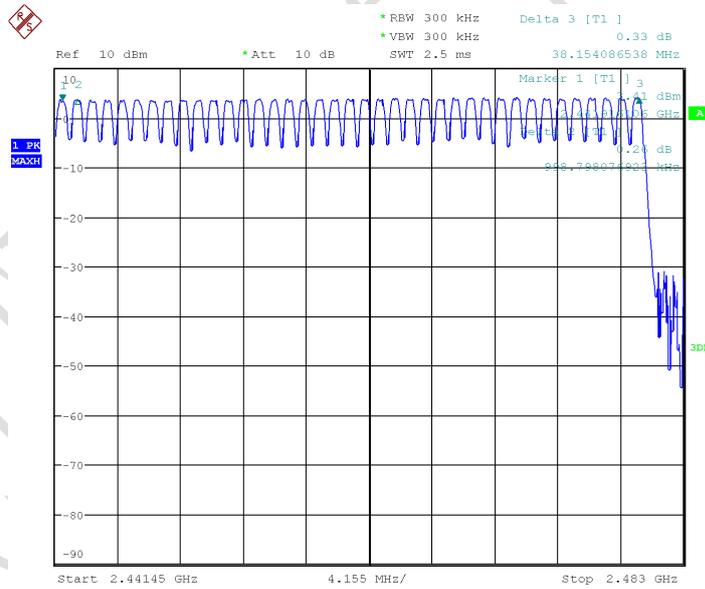
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Fig. 38 GFSK_hopping sequence_channel_0_39



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Fig. 39 GFSK_hopping sequence_channel_40_78

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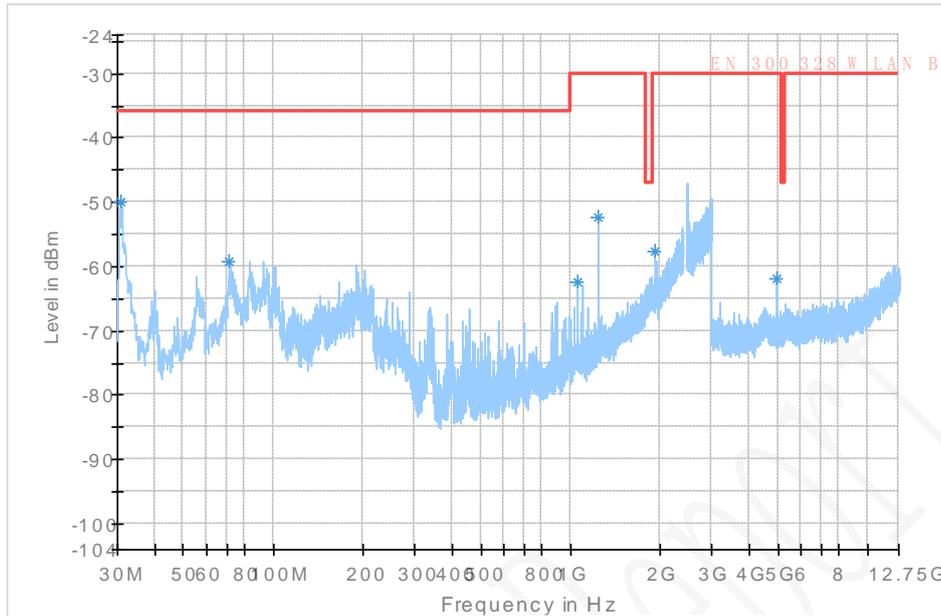
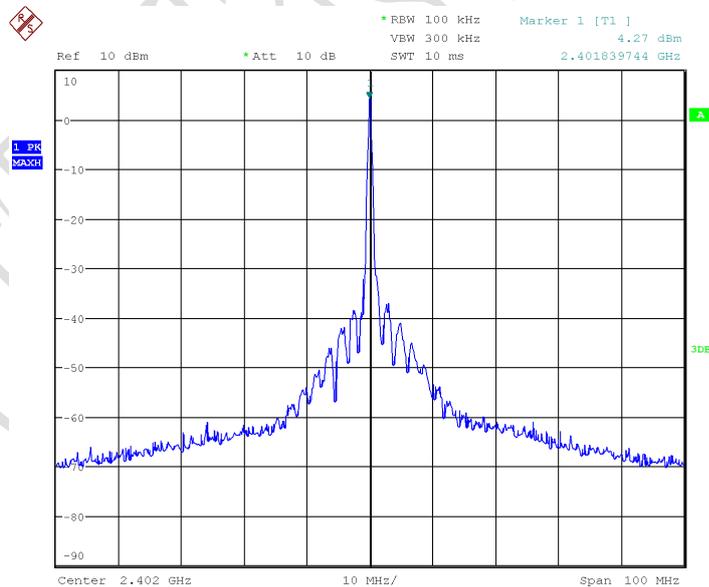


Fig. 40 Transmitter spurious emission: Radiated, Channel 0, 30MHz – 12.75GHz

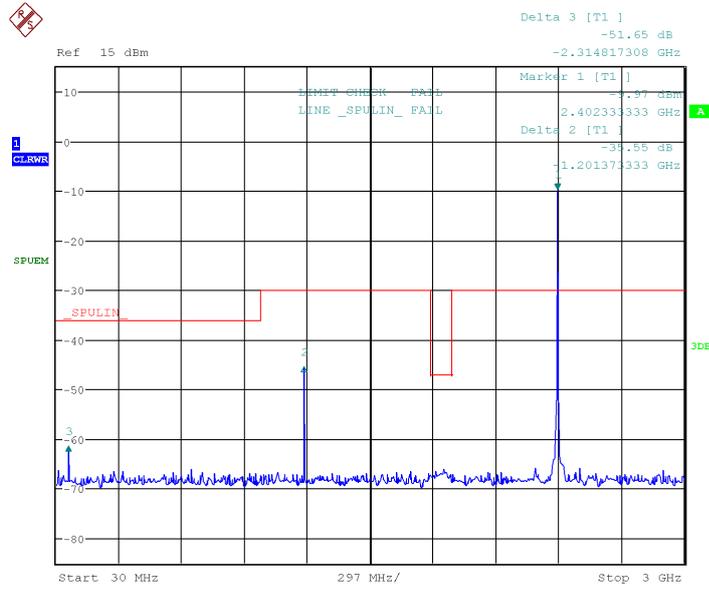


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Fig. 41 Transmitter spurious emission: Conducted, Channel 0, GFSK, 2402MHz

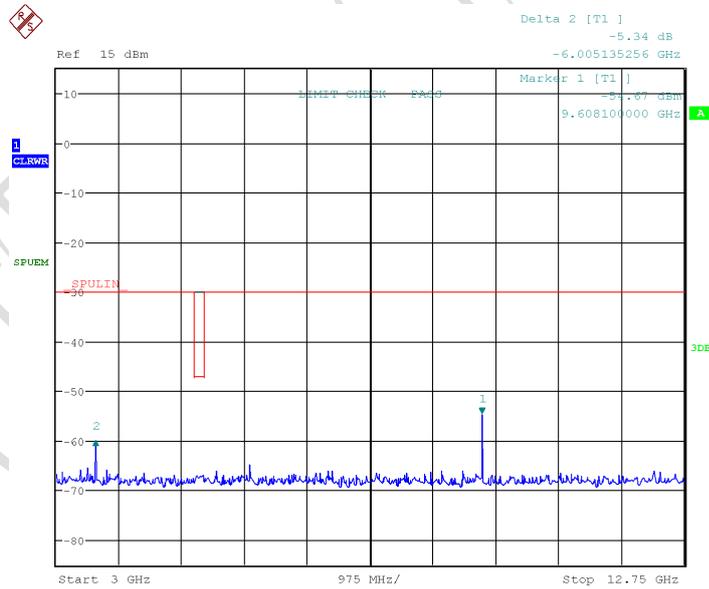
EN300328
Equipment:
SIM800H

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Fig. 42 Transmitter spurious emission: Conducted, Channel 0, GFSK, 30MHz - 3GHz

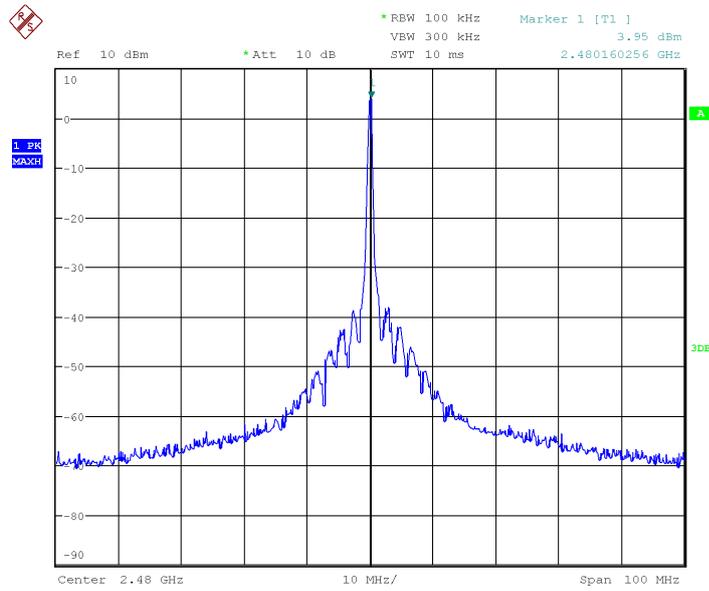


Date: 20.AUG.2013 13:31:40

Fig. 43 Transmitter spurious emission: Conducted, Channel 0, GFSK, 3GHz - 12.75GHz

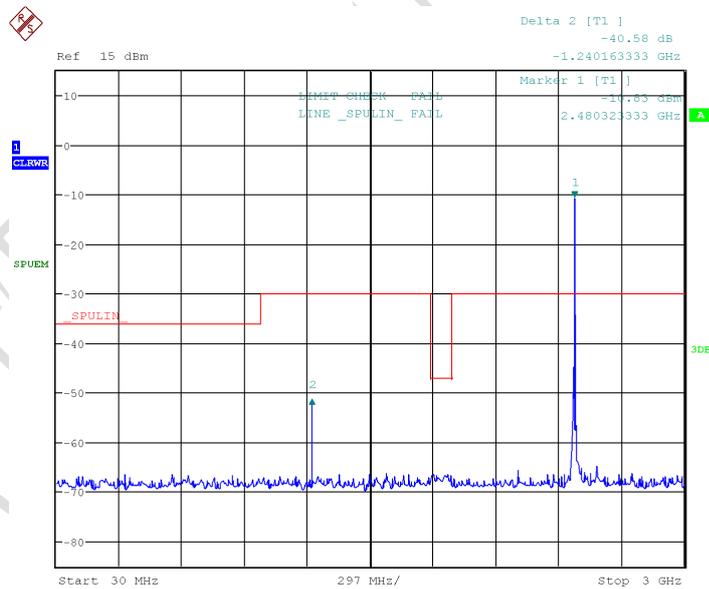
EN300328
Equipment:
SIM800H

REPORT NO.: I13GC9474-RF-BT



Date: 20.AUG.2013 13:32:29

Fig. 44 Transmitter spurious emission: Conducted, Channel 78, GFSK, 2480MHz

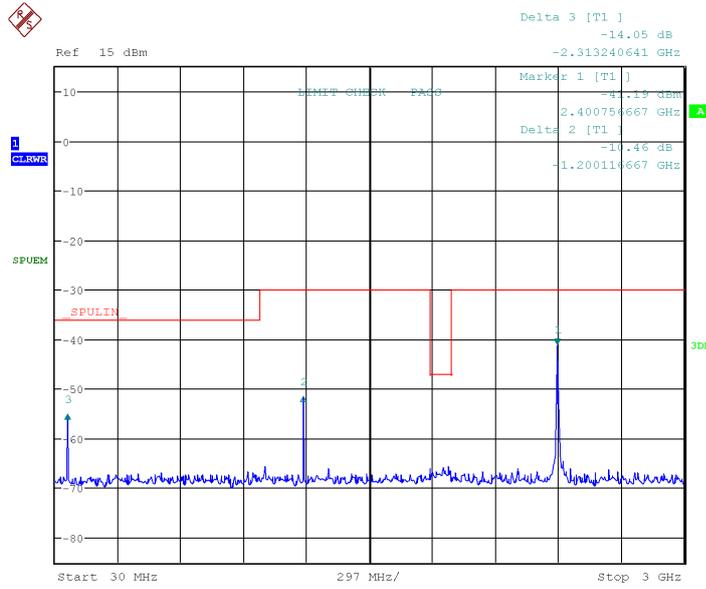


Date: 20.AUG.2013 13:32:59

Fig. 45 Transmitter spurious emission: Conducted, Channel 78, GFSK, 30MHz - 3GHz

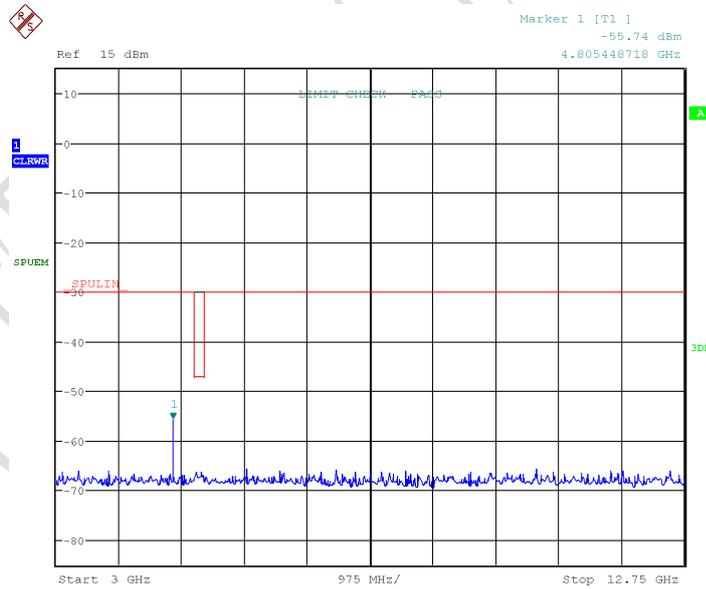
EN300328
Equipment:
SIM800H

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Date: 20.AUG.2013 13:34:25

Fig. 48 Transmitter spurious emission: Conducted, Channel 0, $\pi/4$ DQPSK, 30MHz - 3GHz

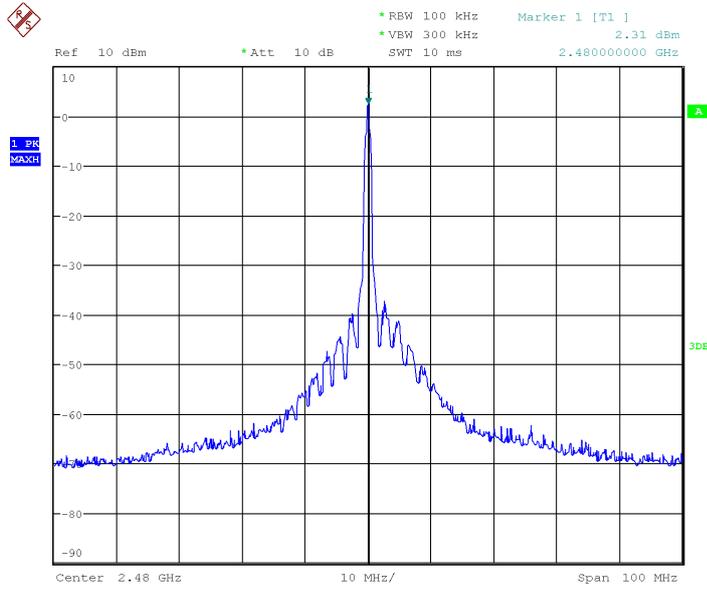


Date: 20.AUG.2013 13:34:56

Fig. 49 Transmitter spurious emission: Conducted, Channel 0, $\pi/4$ DQPSK, 3GHz - 12.75GHz

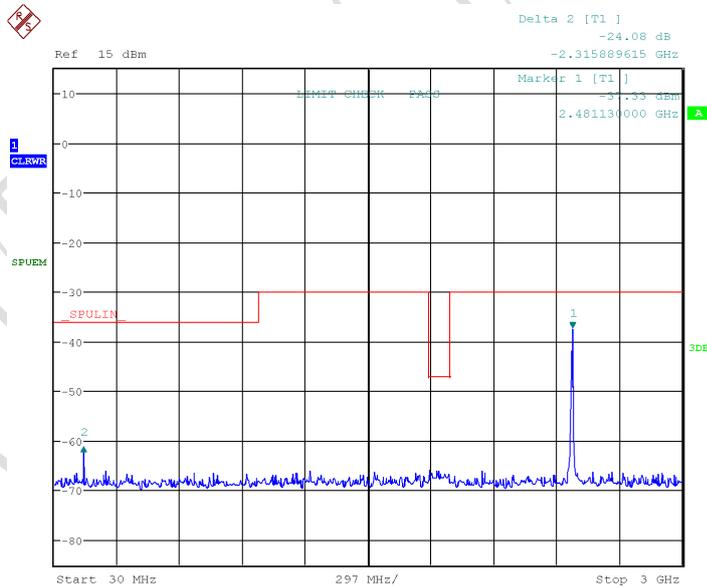
EN300328
Equipment:
SIM800H

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Fig. 50 Transmitter spurious emission: Conducted, Channel 78, $\pi/4$ DQPSK, 2480MHz

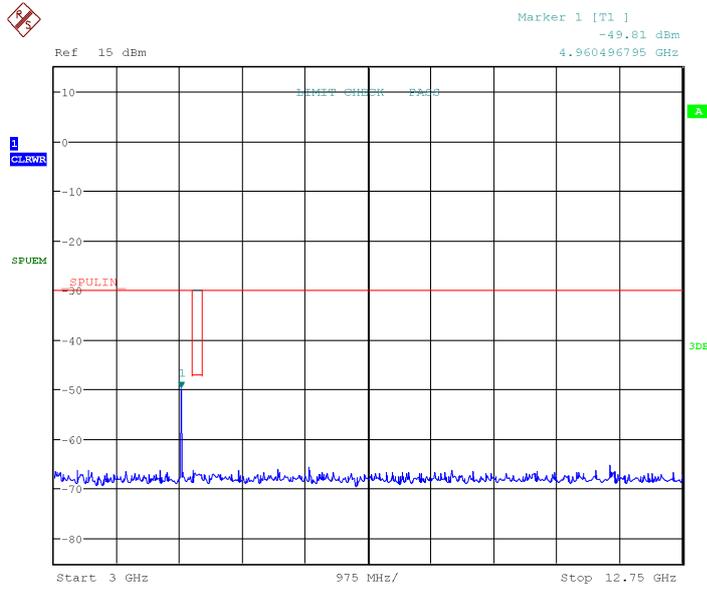


Date: 20.AUG.2013 13:36:03

Fig. 51 Transmitter spurious emission: Conducted, Channel 78, $\pi/4$ DQPSK, 30MHz - 3GHz

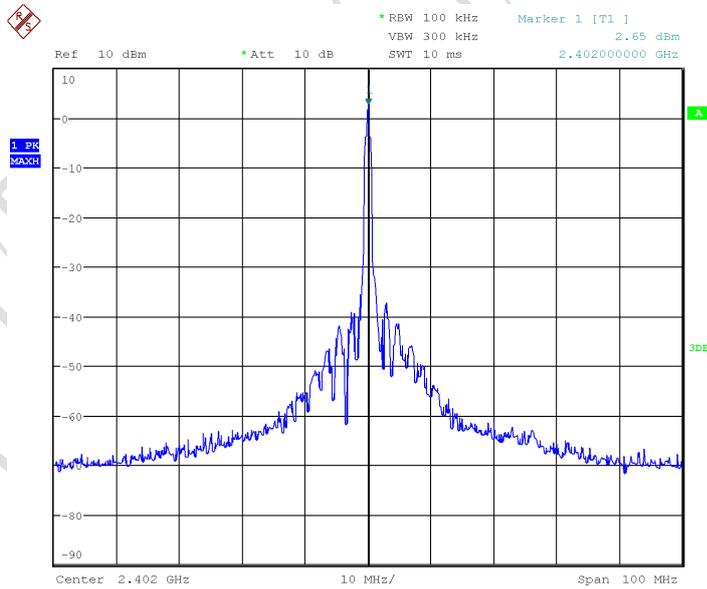
EN300328
Equipment:
SIM800H

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Fig. 52 Transmitter spurious emission: Conducted, Channel 78, $\pi/4$ DQPSK, 3GHz - 12.75GHz

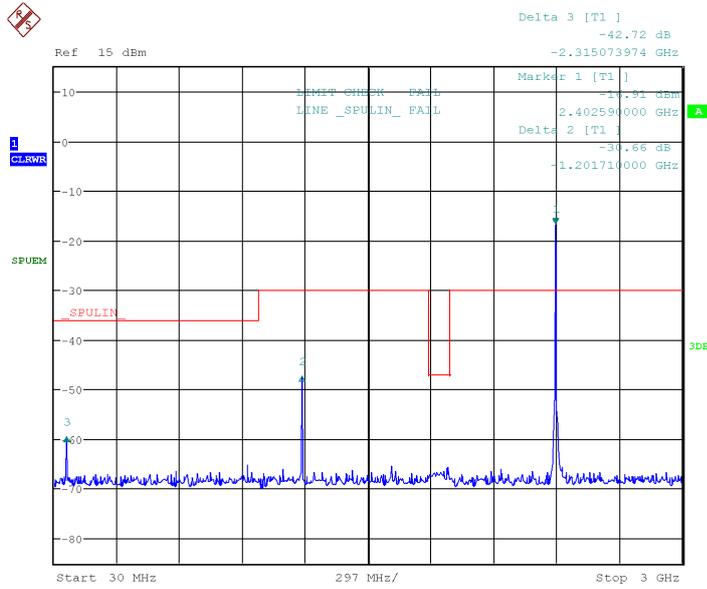


Date: 20.AUG.2013 13:37:05

Fig. 53 Transmitter spurious emission: Conducted, Channel 0, 8DPSK, 2402MHz

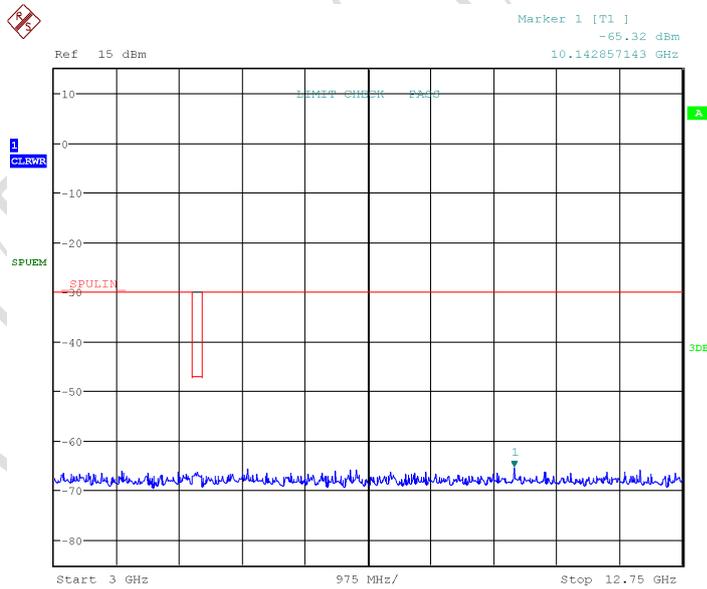
EN300328
Equipment:
SIM800H

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Fig. 54 Transmitter spurious emission: Conducted, Channel 0, 8DPSK, 30MHz - 3GHz

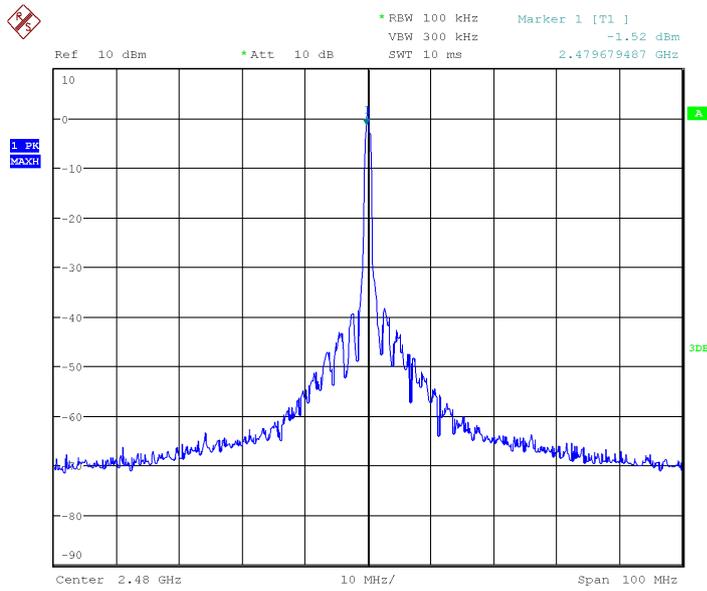


Date: 20.AUG.2013 13:37:44

Fig. 55 Transmitter spurious emission: Conducted, Channel 0, 8DPSK, 3GHz - 12.75GHz

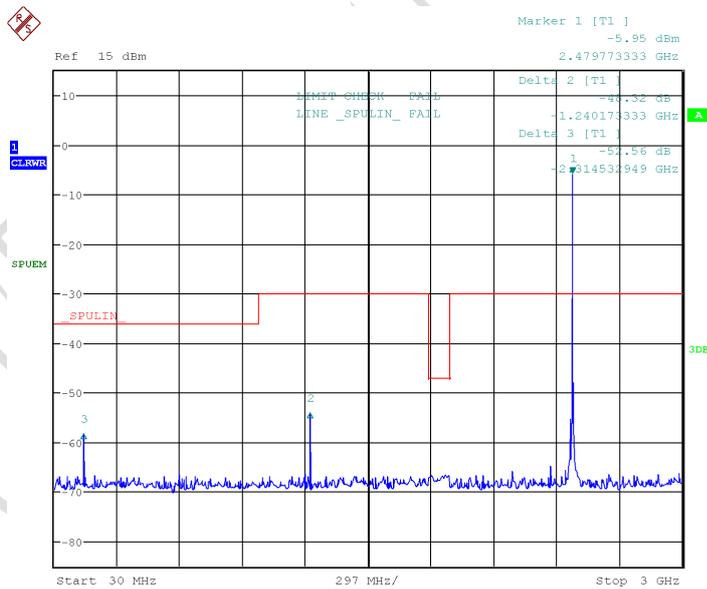
EN300328
Equipment:
SIM800H

REPORT NO.: I13GC9474-RF-BT



Date: 20.AUG.2013 13:38:23

Fig. 56 Transmitter spurious emission: Conducted, Channel 78, 8DPSK, 2480MHz

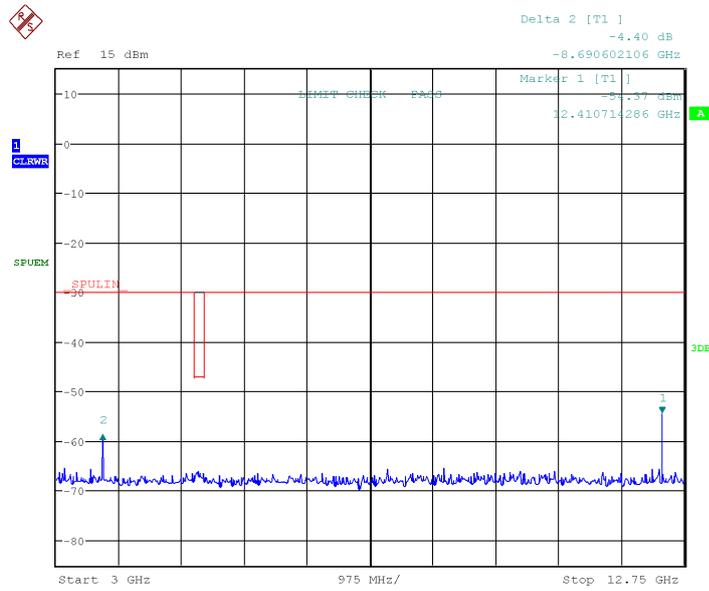


Date: 20.AUG.2013 13:38:42

Fig. 57 Transmitter spurious emission: Conducted, Channel 78, 8DPSK, 30MHz - 3GHz

EN300328
Equipment:
SIM800H

REPORT NO.: I13GC9474-RF-BT



Date: 20.AUG.2013 13:38:59

Fig. 58 Transmitter spurious emission: Conducted, Channel 78, 8DPSK, 3GHz - 12.75GHz

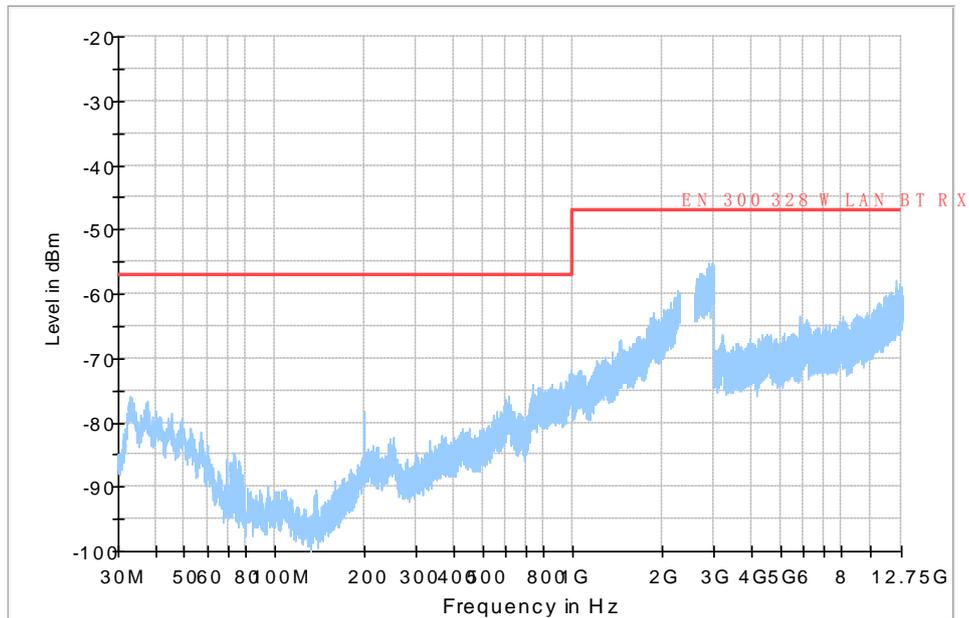
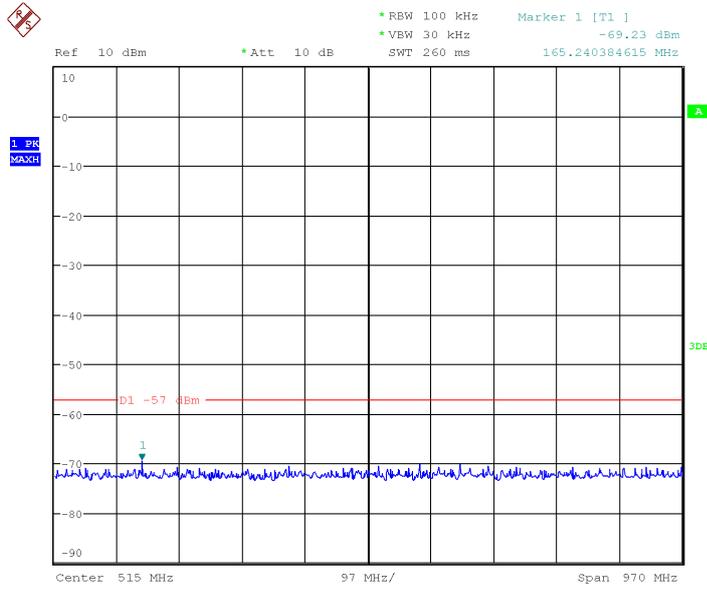


Fig. 59 Receiver Spurious Emissions: Radiated, Channel 0, 30MHz - 12.75GHz

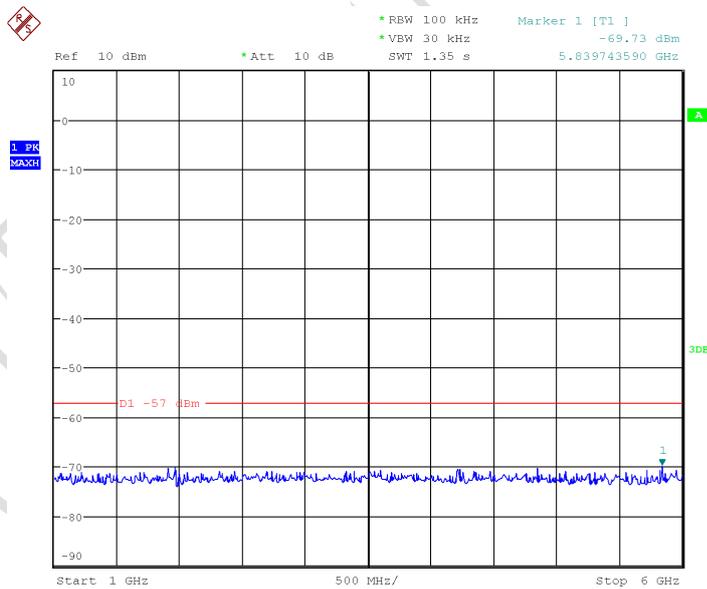
EN300328
Equipment:
SIM800H

REPORT NO.: I13GC9474-RF-BT



Date: 2.JUL.2013 14:12:37

Fig. 60 Receiver spurious emission: Conducted, Idle, 30MHz - 1GHz

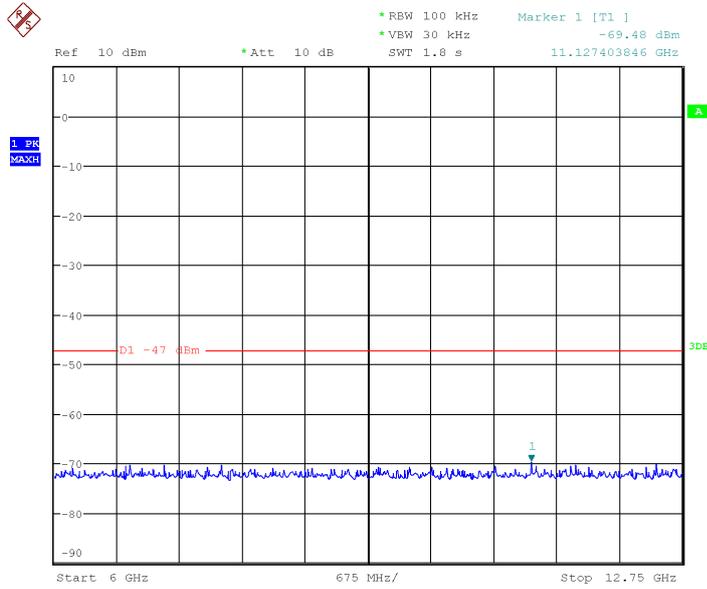


Date: 2.JUL.2013 14:13:08

Fig. 61 Receiver spurious emission: Conducted, Idle, 1GHz - 6GHz

EN300328
Equipment:
SIM800H

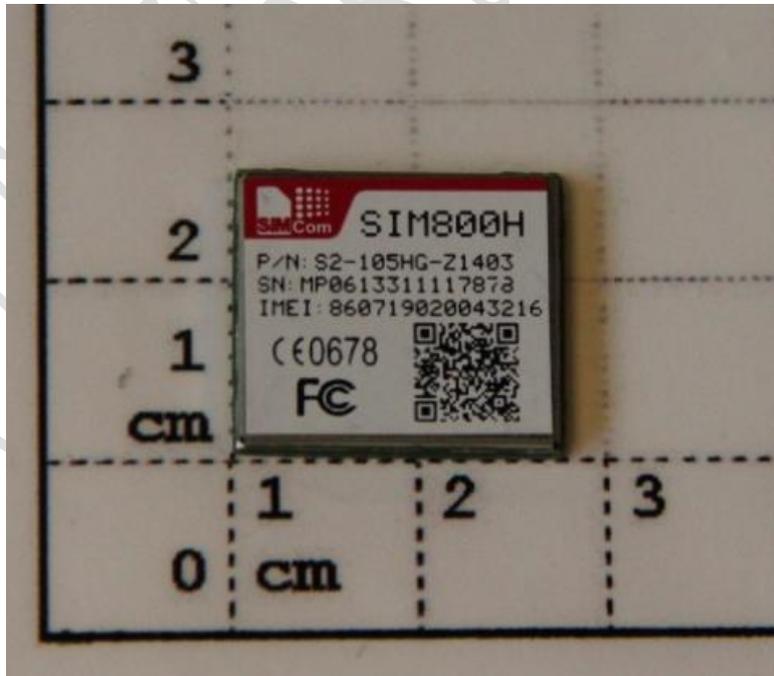
REPORT NO.: I13GC9474-RF-BT



Date: 2.JUL.2013 14:13:25

Receiver spurious emission: Conducted, Idle, 6GHz – 12.75GHz

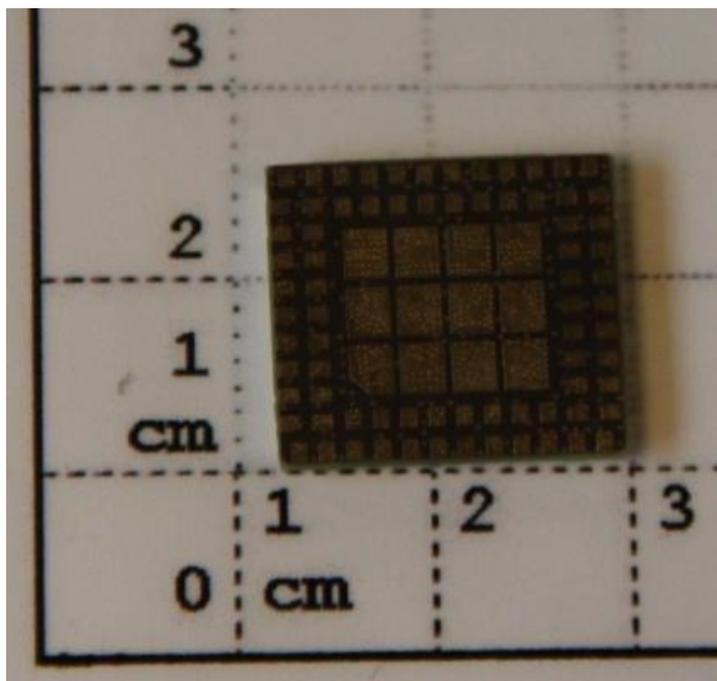
Annex B EUT Photos



Front view

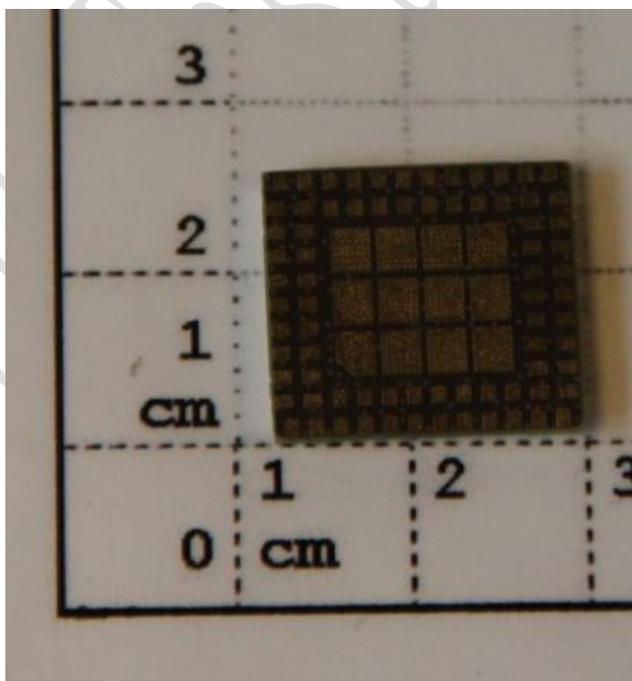
EN300328
Equipment:
SIM800H

REPORT NO.: I13GC9474-RF-BT



Back view

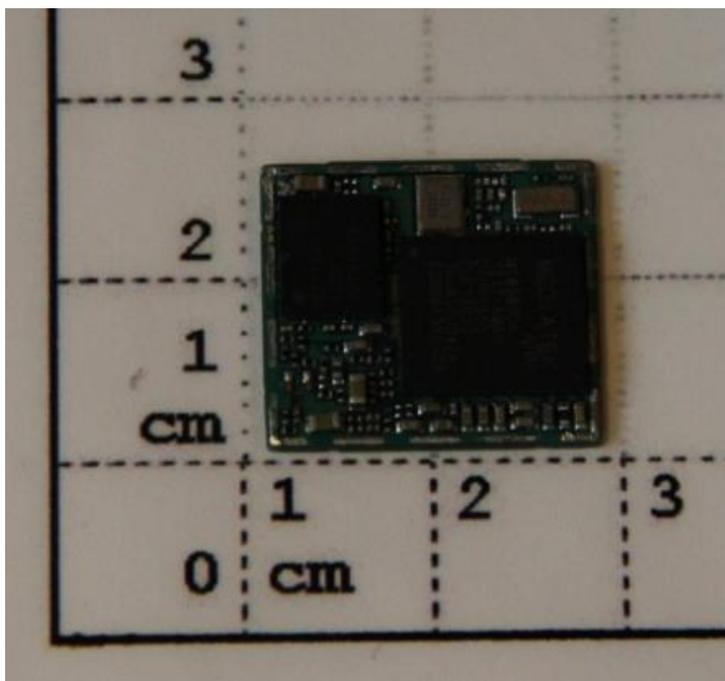
Annex C Internal Photos



Main board (back)

EN300328
Equipment:
SIM800H

REPORT NO.: I13GC9474-RF-BT



Main board (face)

ANNEX D Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

————— The End of this Report —————