

Variant FCC RF Test Report

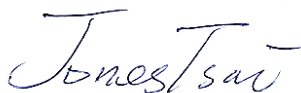
APPLICANT : Acer Incorporated
EQUIPMENT : Smart HandHeld
BRAND NAME : Acer
MODEL NAME : S57
MARKETING NAME : Liquid Jade Z
FCC ID : HLZDMS57
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

This is a variant report which is only valid together with the original test report. The product was received on Jan. 13, 2015 and testing was completed on Mar. 05, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG511349A	Rev. 01	This is a variant report for S57. The difference between previous and current is as following: 1. changed Model name from "S56" to "S57", 2. changed marketing name from "Liquid Jade S" to "Liquid Jade Z" 3. changed CPU from "MT6752M" to "MT6732" 4. changed earphone from model name "HF-AC09W-02" to "HC.00211.008". Based on the similarity between two models, only the conducted power and Conducted Spurious Emission test for middle channel were verified, all other test data are leverage from original test report (Sporton Report Number FG492402A with FCC ID: HLZDMS56).	Mar. 10, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4)	Conducted Output Power	N/A	PASS	-
3.2	§2.1051 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Conducted Spurious Emission	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	-

1 General Description

1.1 Applicant

Acer Incorporated

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)

1.2 Manufacturer

Shanghai Sunrise Simcom Limited

No. 888, Shengli Rd., Qingpu, Shanghai, P.R.China 201700

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart HandHeld
Brand Name	Acer
Model Name	S57
Marketing Name	Liquid Jade Z
FCC ID	HLZDMS57
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ LTE/WLAN 2.4GHz 802.11b/g/n (HT20/HT40)/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz
Antenna Type	PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	TH01-KS	149928

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Test Modes	
Band	Conducted TCs
GSM 850	■ GSM Link
	■ EDGE class 8 Link
GSM 1900	■ GSM Link
	■ EDGE class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link

Conducted Power Measurement Results:

Conducted Power (*Unit: dBm)		
Band	GSM850	GSM1900
Channel	189	661
Frequency	836.4	1880.0
GSM	32.45	29.72
GPRS class 8	32.43	29.70
GPRS class 10	31.82	27.35
GPRS class 11	30.22	24.65
GPRS class 12	29.26	24.36
EGPRS class 8	26.34	25.13
EGPRS class 10	25.48	24.25
EGPRS class 11	23.71	22.21
EGPRS class 12	22.50	21.21

Conducted Power (*Unit: dBm)		
Band	WCDMA Band V	WCDMA Band II
Channel	4182	9400
Frequency	836.4	1880
AMR 12.2K	22.28	22.13
RMC 12.2K	22.29	22.15

2.2 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

2.3 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 5.4 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5.4 + 10 = 15.4 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

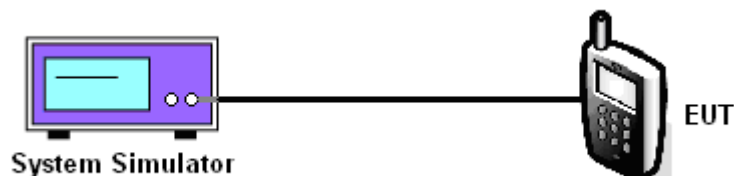
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Cellular Band			
Modes	GSM850 (GSM Link)	GSM850 (EDGE class 8)	WCDMA Band V (RMC 12.2Kbps)
Channel	189 (Mid)	189 (Mid)	4182 (Mid)
Frequency (MHz)	836.4	836.4	836.4
Conducted Power (dBm)	32.45	26.34	22.29

PCS Band			
Modes	GSM1900 (GSM Link)	GSM1900 (EDGE class 8)	WCDMA Band II (RMC 12.2Kbps)
Channel	661 (Mid)	661 (Mid)	9400 (Mid)
Frequency (MHz)	1880	1880	1880
Conducted Power (dBm)	29.72	25.13	22.15

3.2 Conducted Spurious Emission Measurement

3.2.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

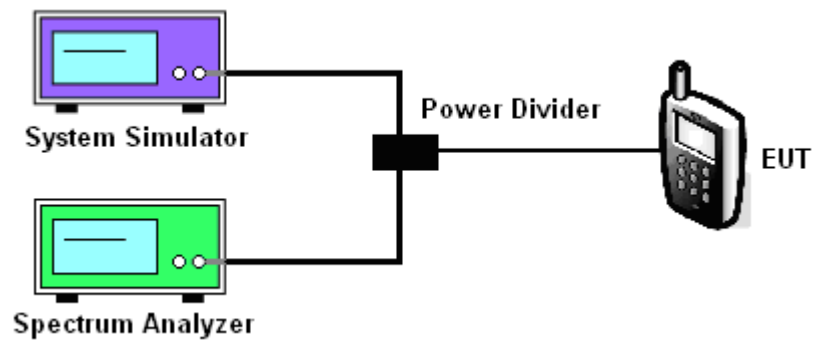
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

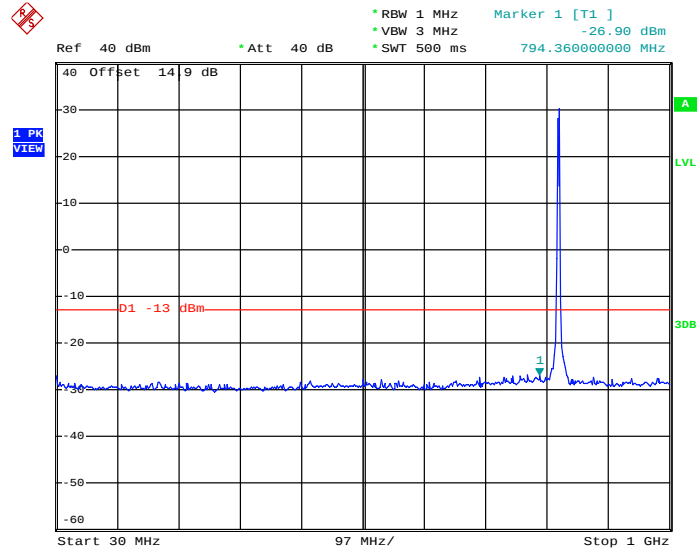
1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

3.2.4 Test Setup

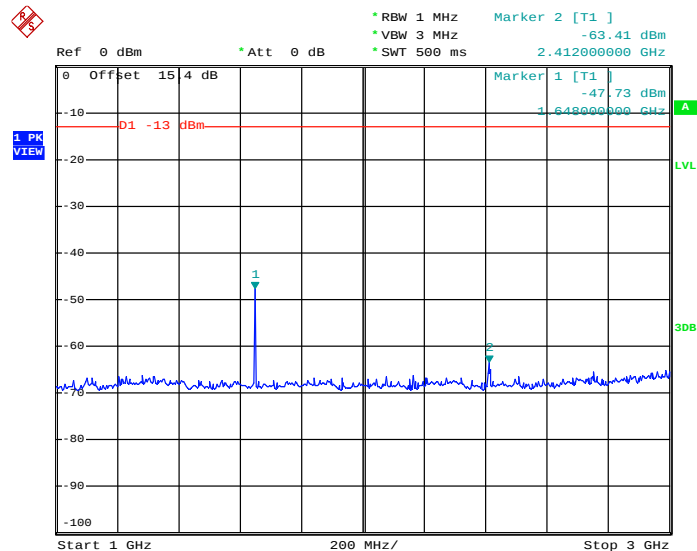


3.2.5 Test Result (Plots) of Conducted Spurious Emission

Band :	GSM850	Channel :	CH128
Test Mode :	GSM Link (GMSK)	Frequency :	824.2 MHz

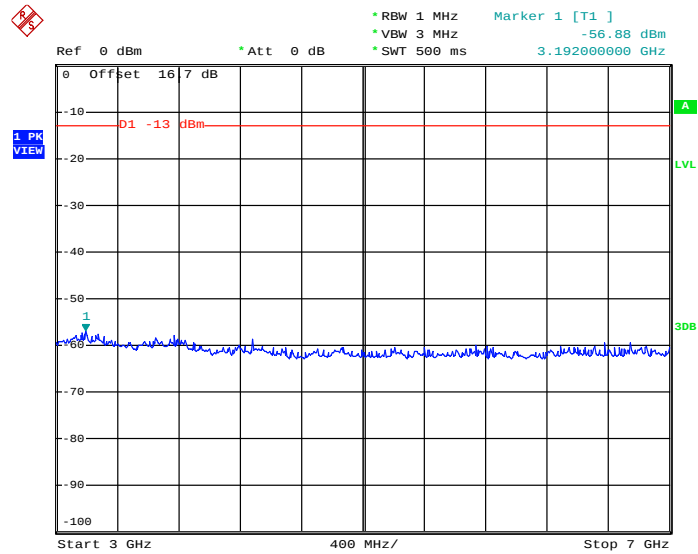
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 5.MAR.2015 00:00:35

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


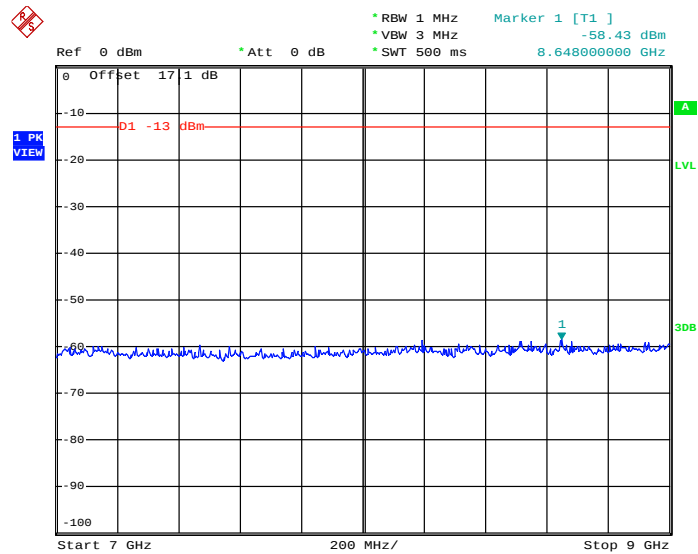
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:05:03

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

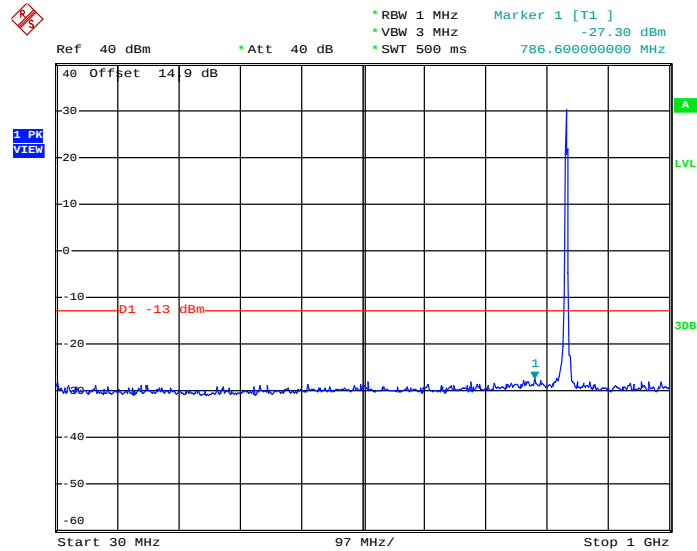


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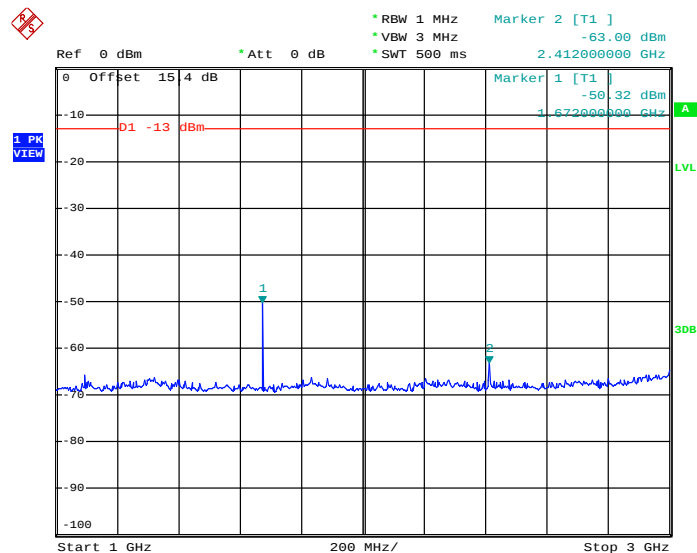
Band :	GSM850	Channel :	CH189
Test Mode :	GSM Link (GMSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



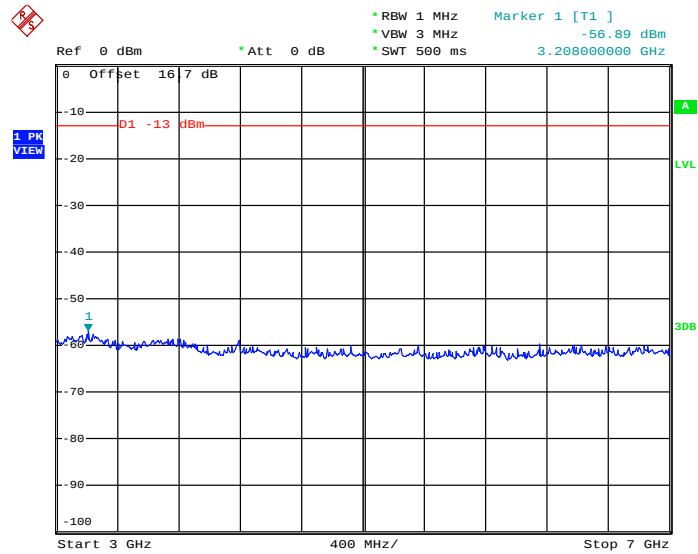
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



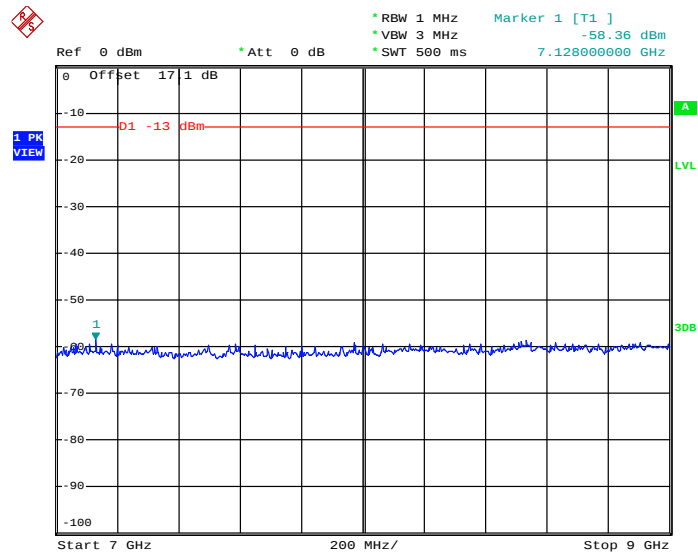
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:05:20

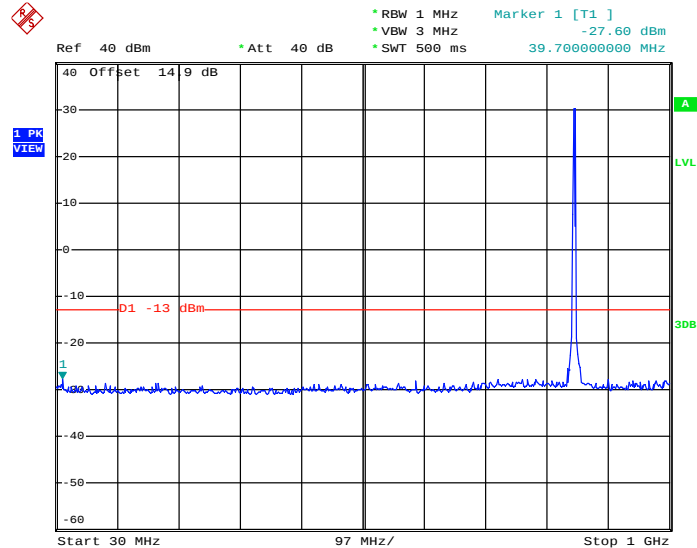
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



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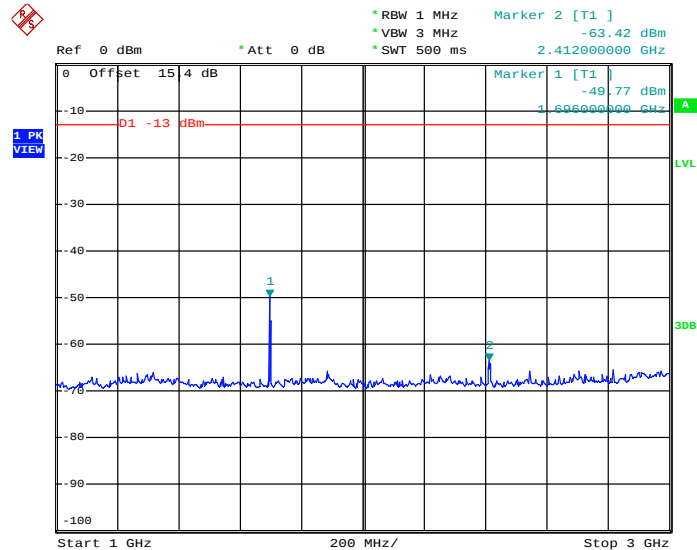
Band :	GSM850	Channel :	CH251
Test Mode :	GSM Link (GMSK)	Frequency :	848.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



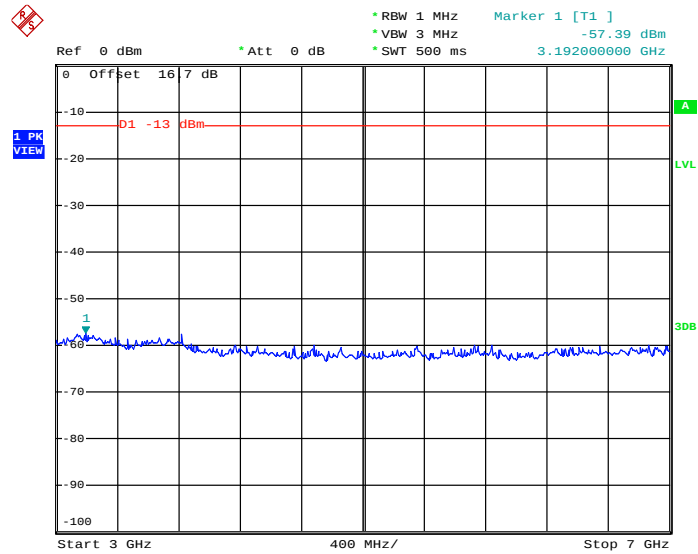
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



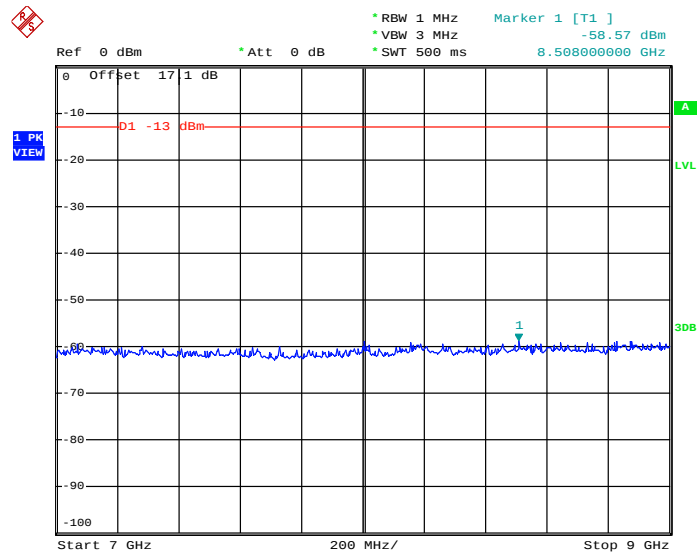
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:05:37

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

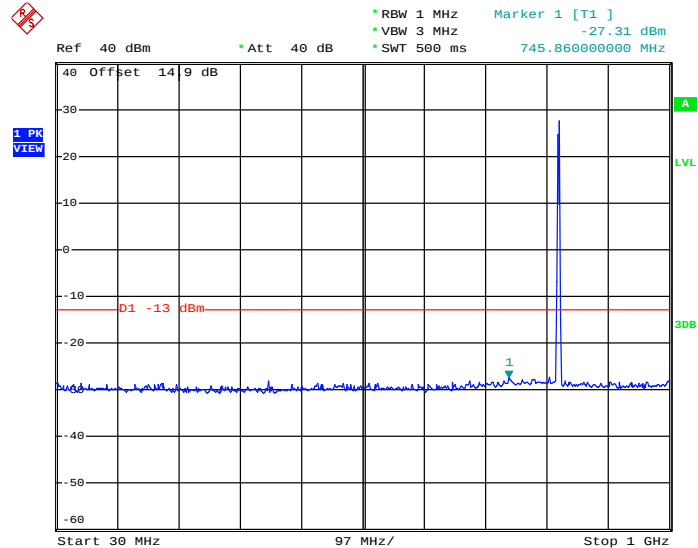


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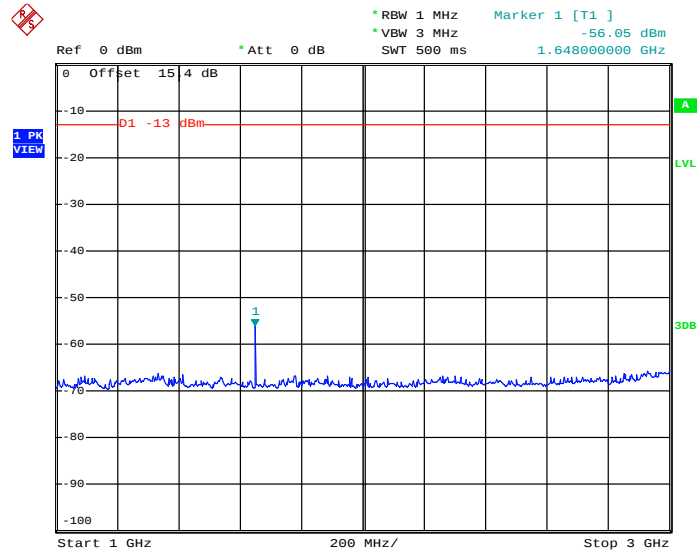
Band :	GSM850	Channel :	CH128
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	824.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



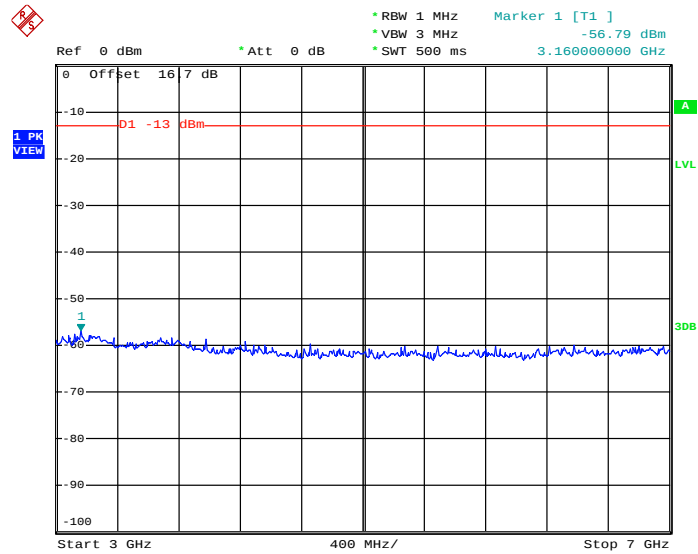
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



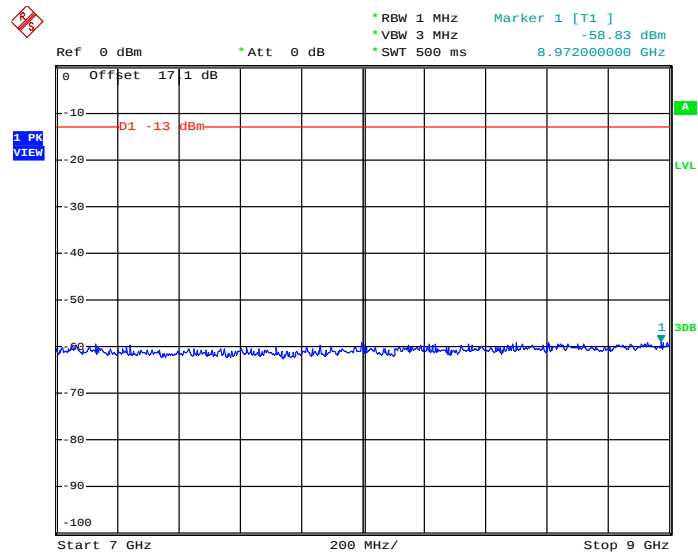
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:11:52

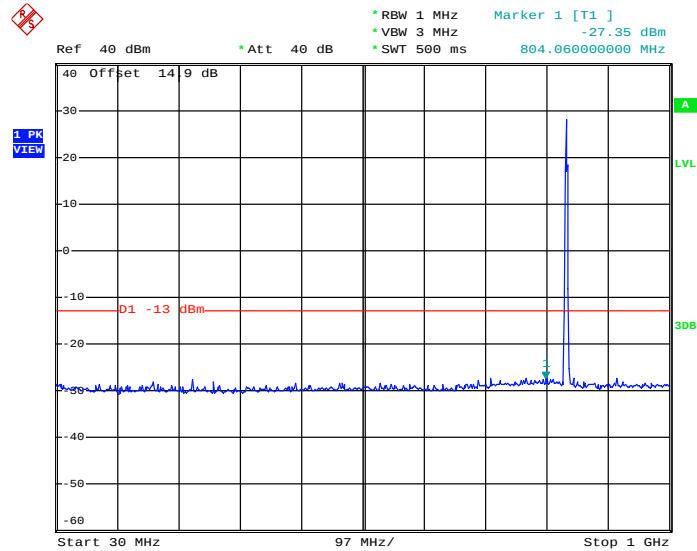
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 5.MAR.2015 00:10:00

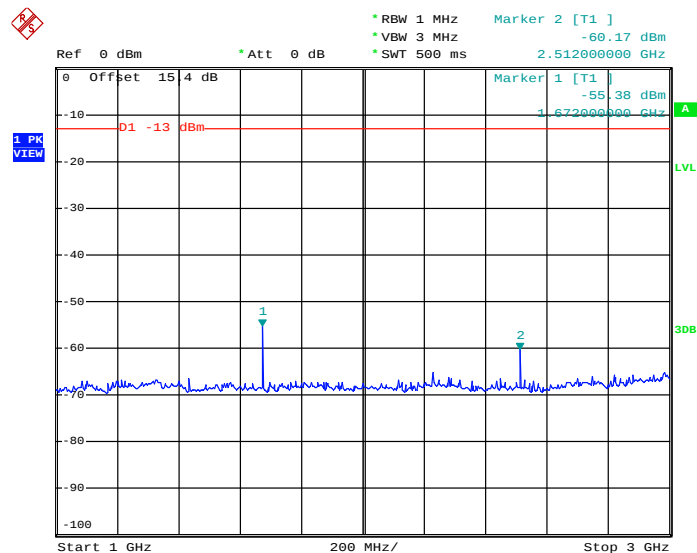
Band :	GSM850	Channel :	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



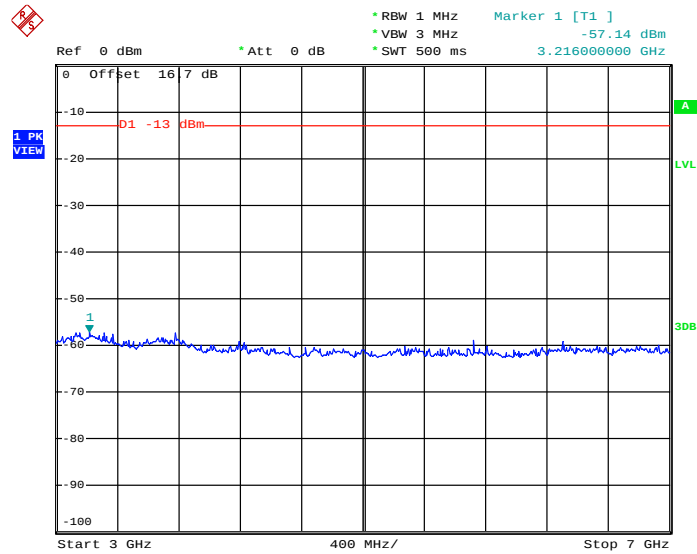
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



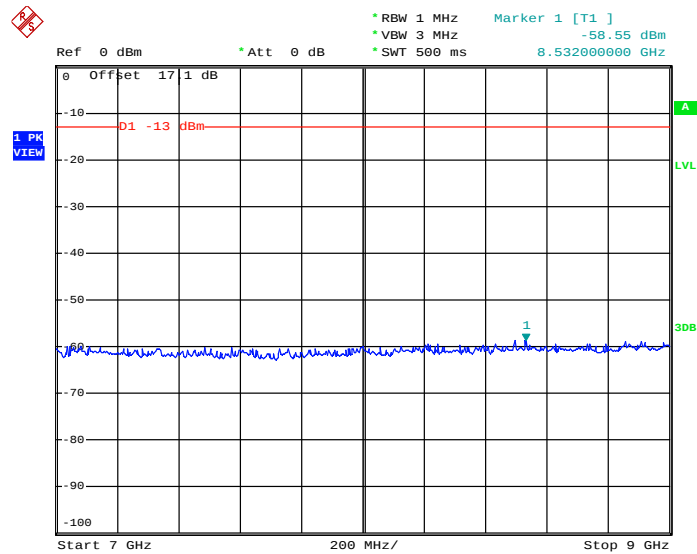
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



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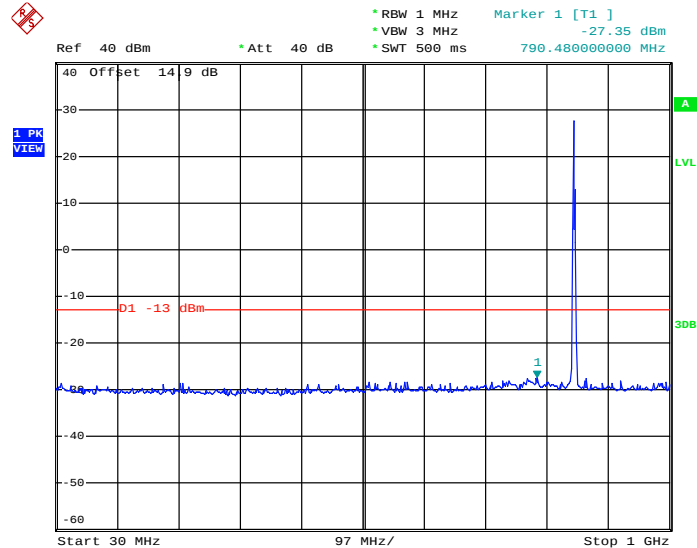
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 5.MAR.2015 00:10:13

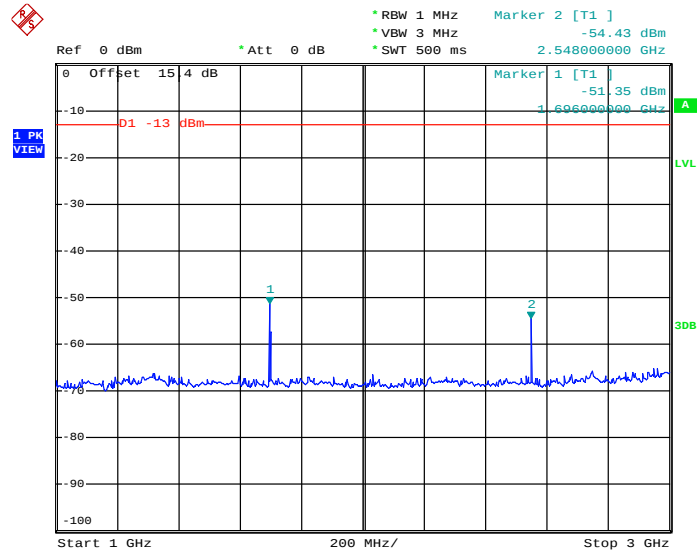
Band :	GSM850	Channel :	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	848.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



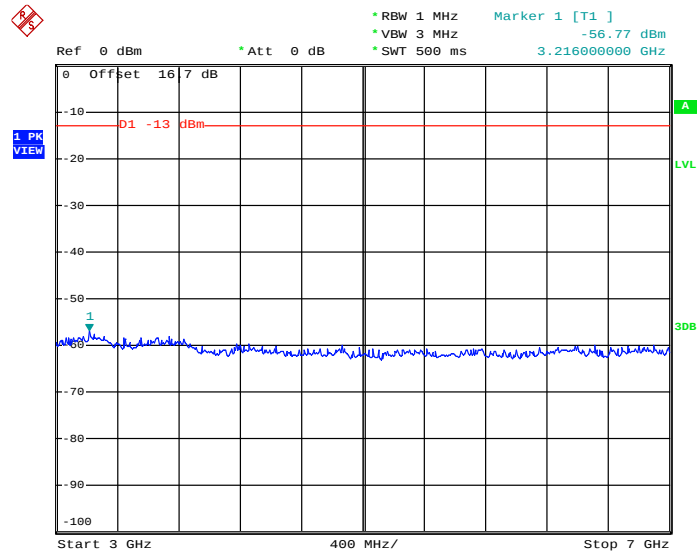
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



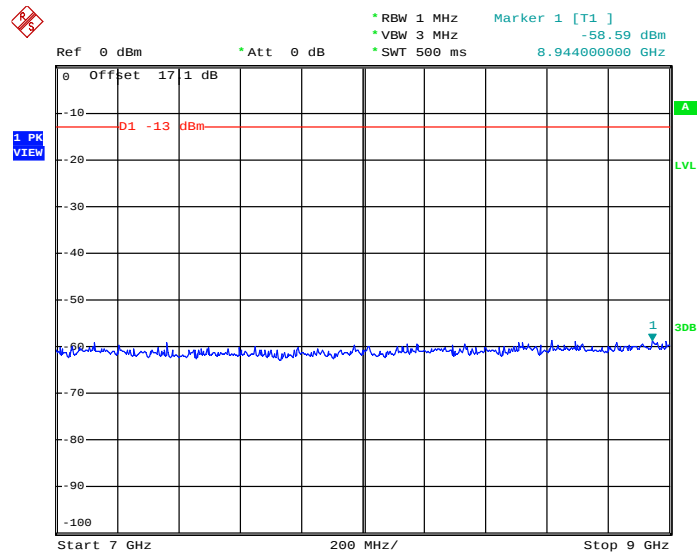
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:11:07

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

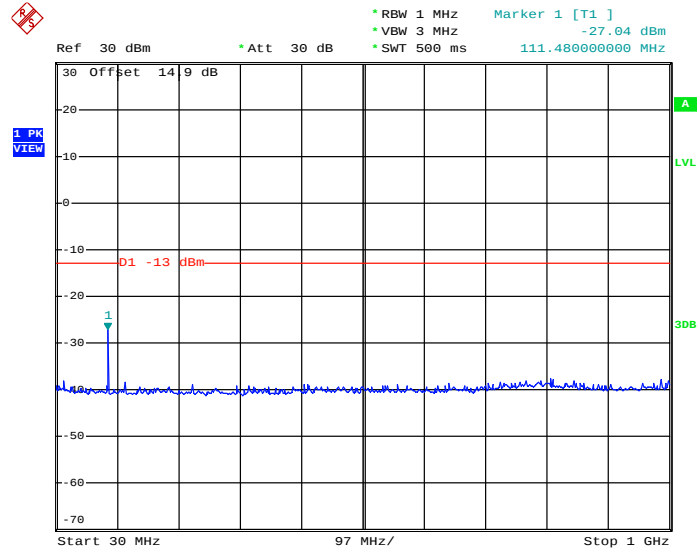


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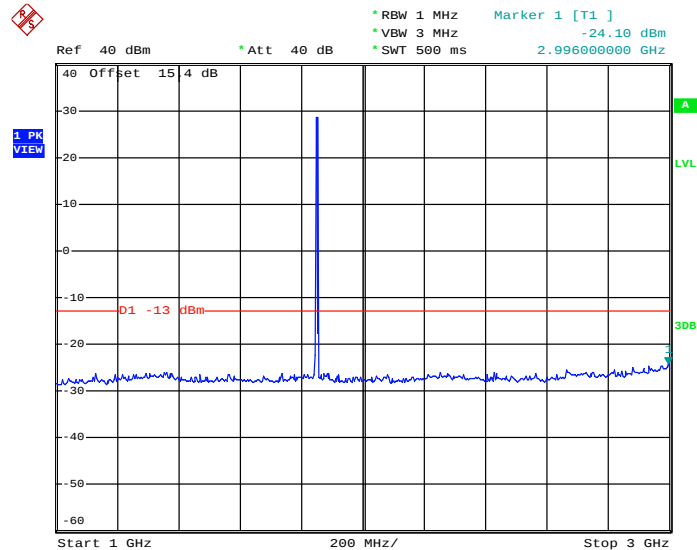
Band :	GSM1900	Channel :	CH512
Test Mode :	GSM Link (GMSK)	Frequency :	1850.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



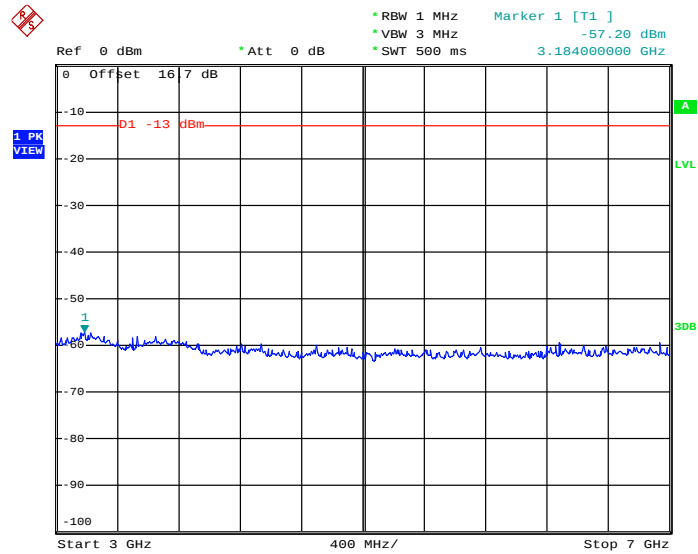
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



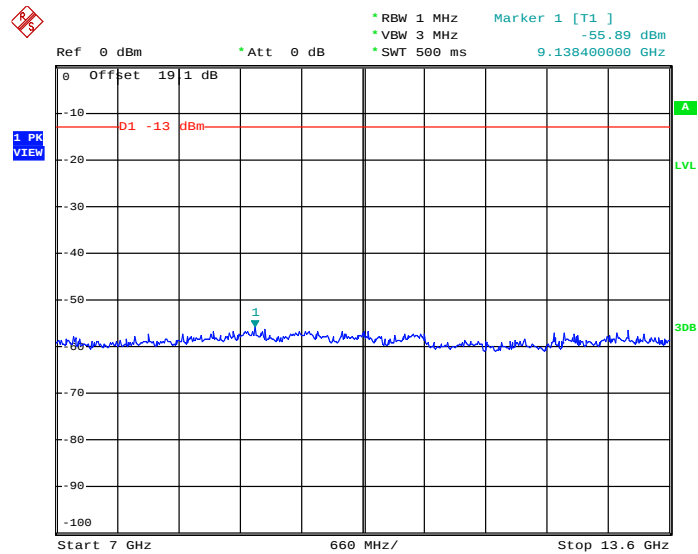
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



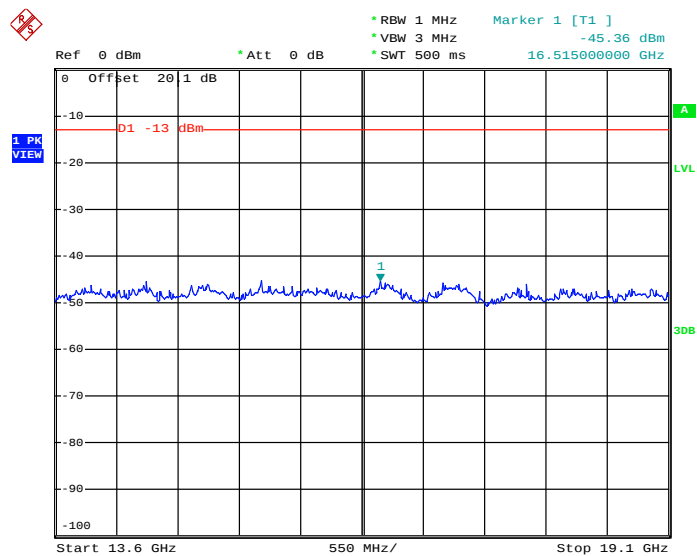
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 01:19:58

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

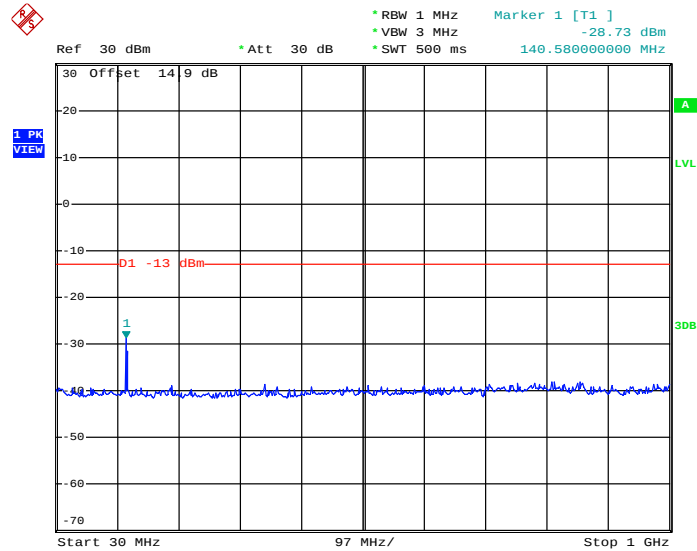


Date: 5.MAR.2015 01:20:37



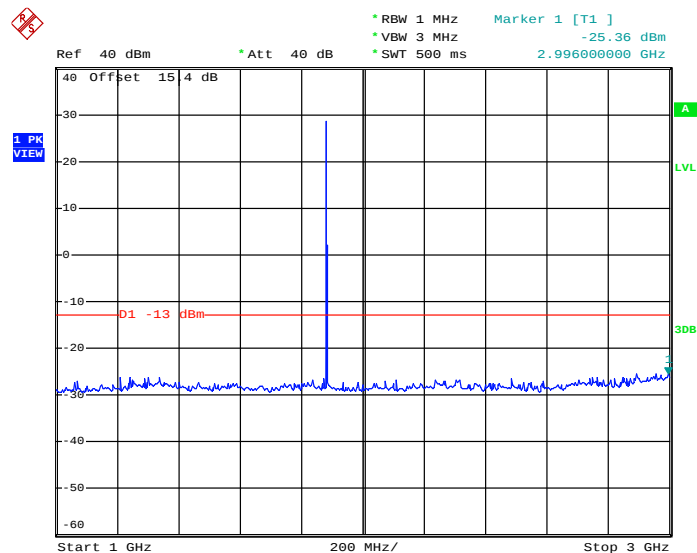
Band :	GSM1900	Channel :	CH661
Test Mode :	GSM Link (GMSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



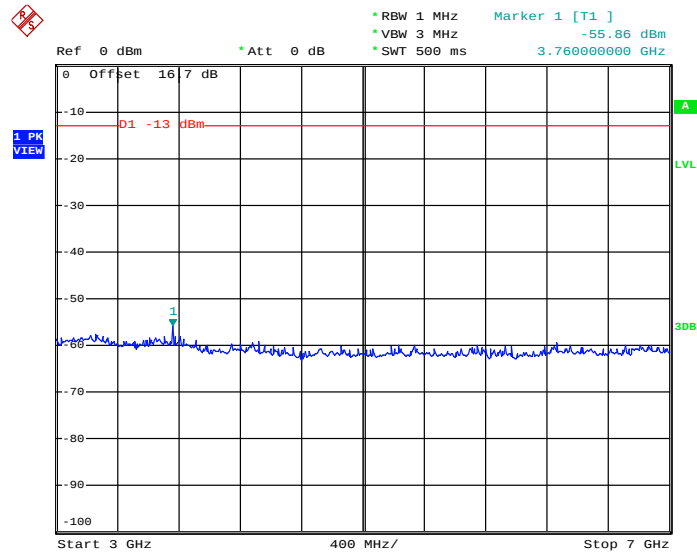
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



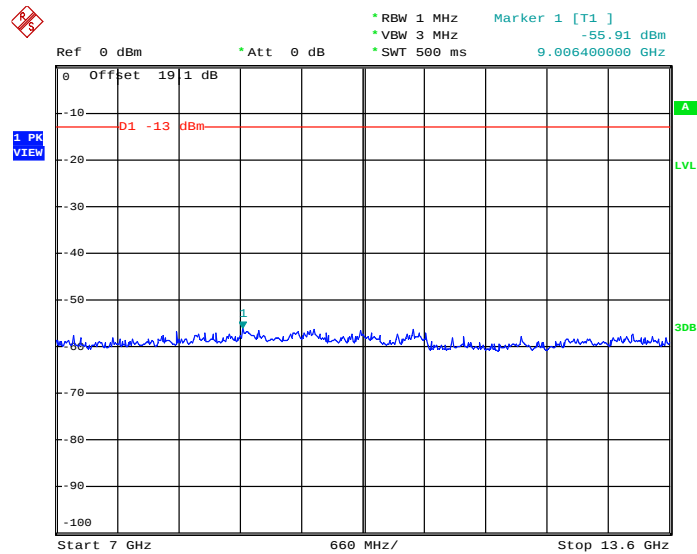
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



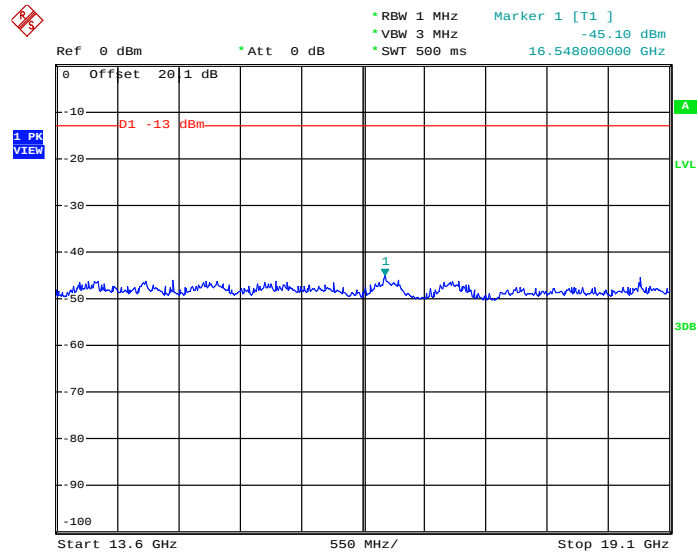
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Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



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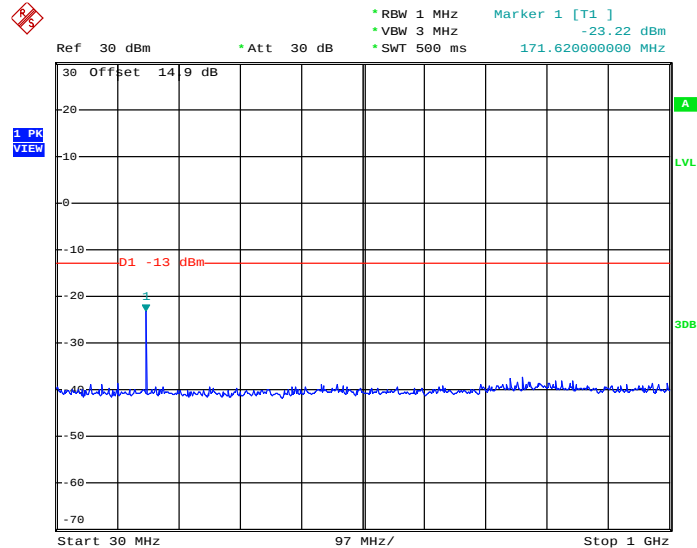
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 5.MAR.2015 01:20:49

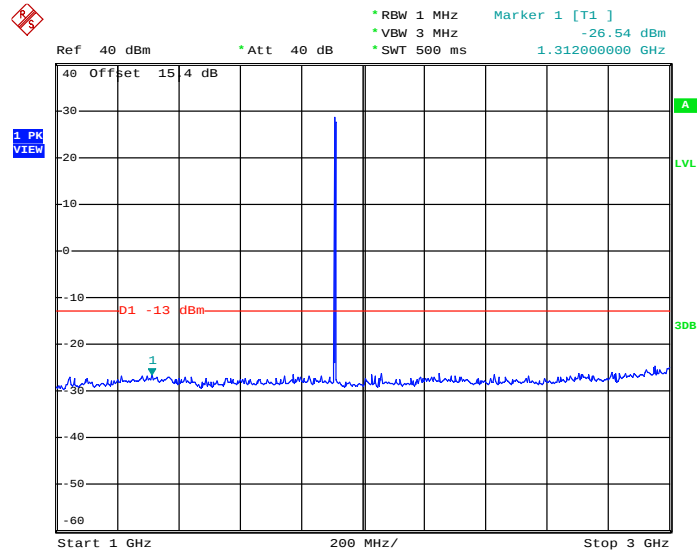
Band :	GSM1900	Channel :	CH810
Test Mode :	GSM Link (GMSK)	Frequency :	1909.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



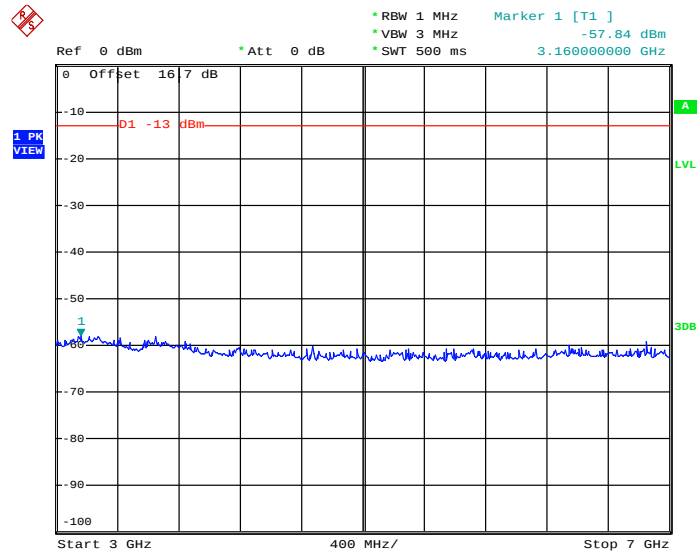
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Conducted Spurious Emission Plot between 1GHz ~ 3GHz



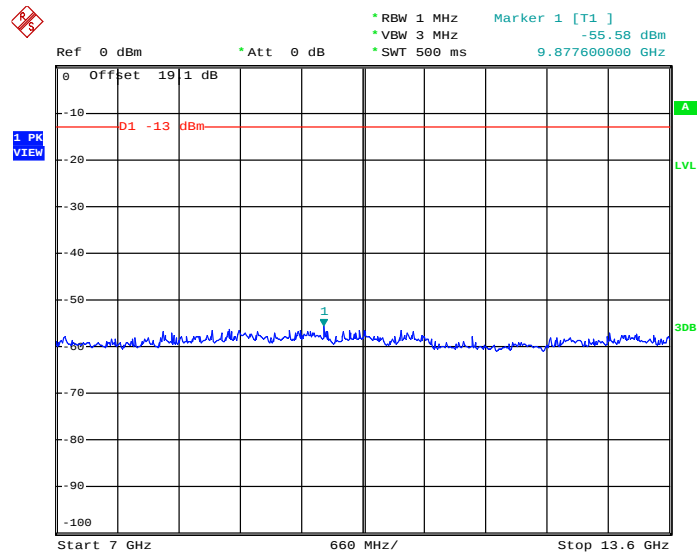
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 01:18:43

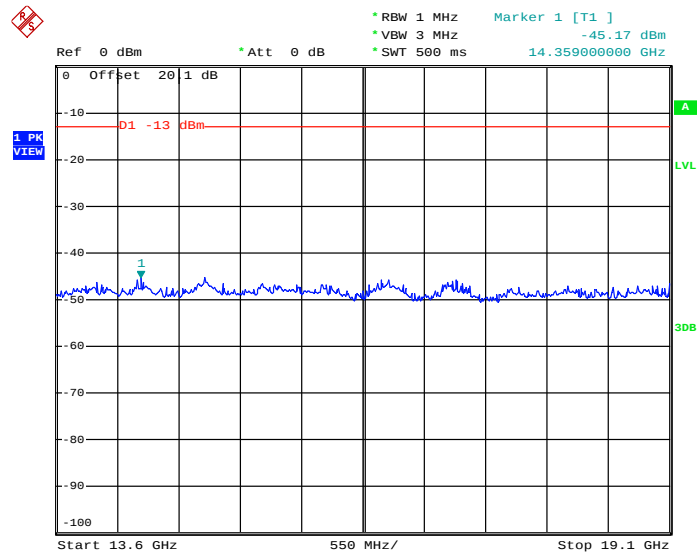
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 01:19:28



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

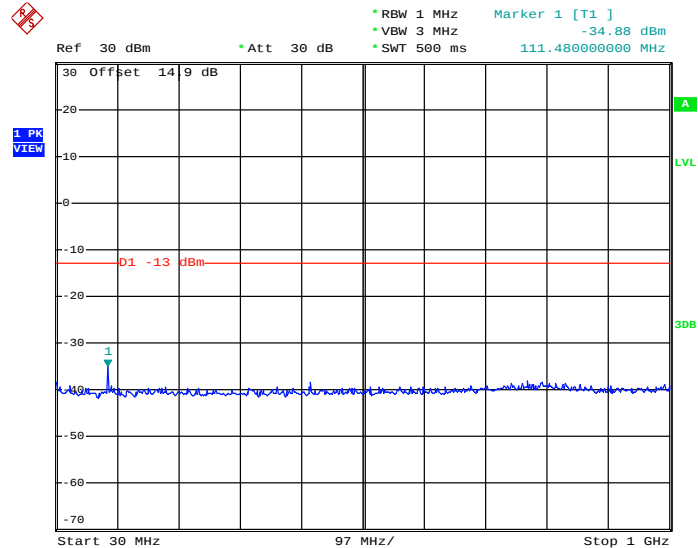


Date: 5.MAR.2015 01:21:05



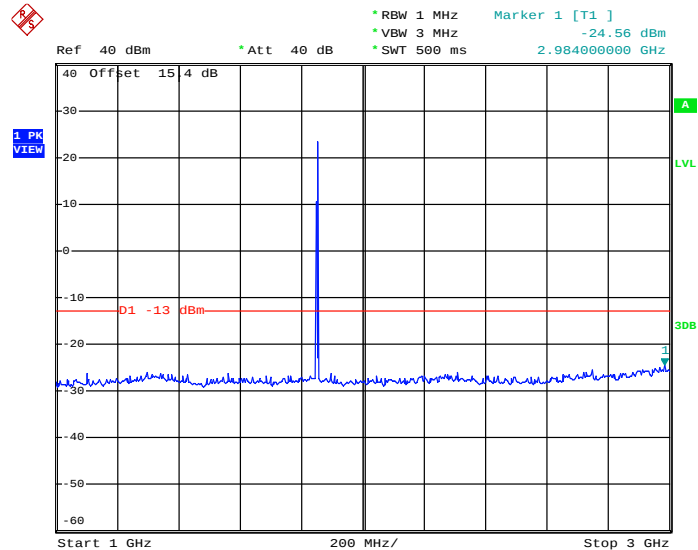
Band :	GSM1900	Channel :	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1850.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



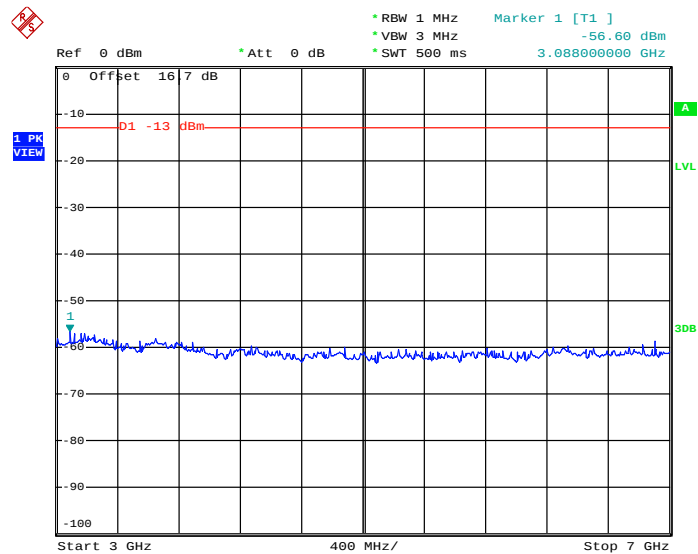
Date: 5.MAR.2015 01:34:34

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



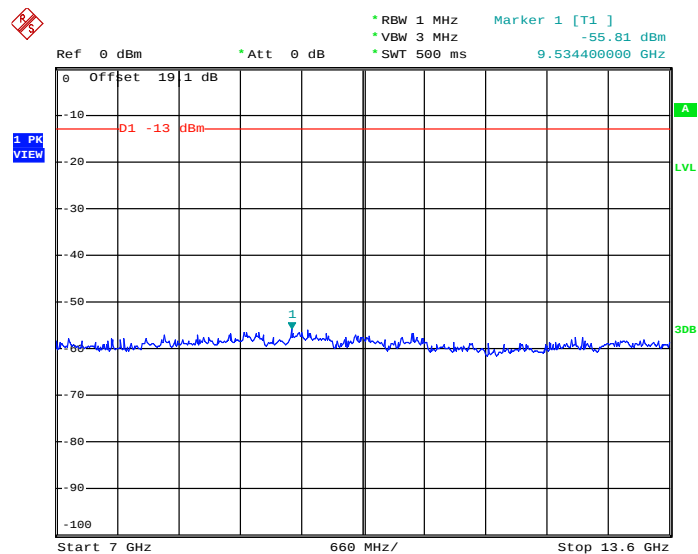
Date: 5.MAR.2015 01:33:34

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 01:39:11

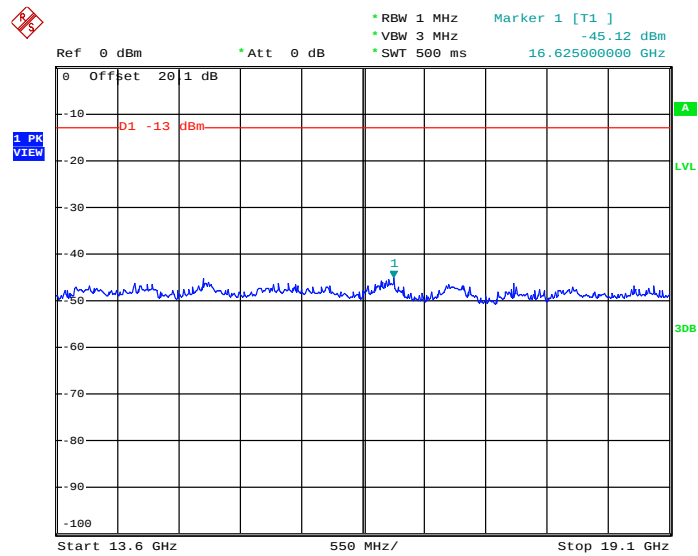
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 01:30:58



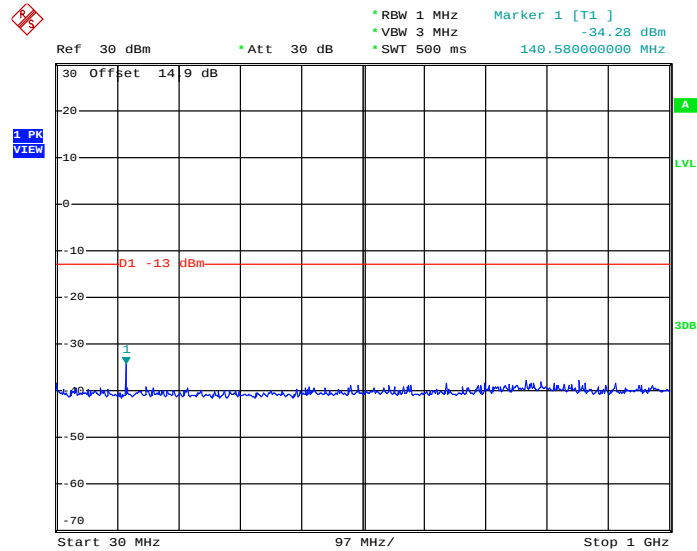
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 5.MAR.2015 01:29:26

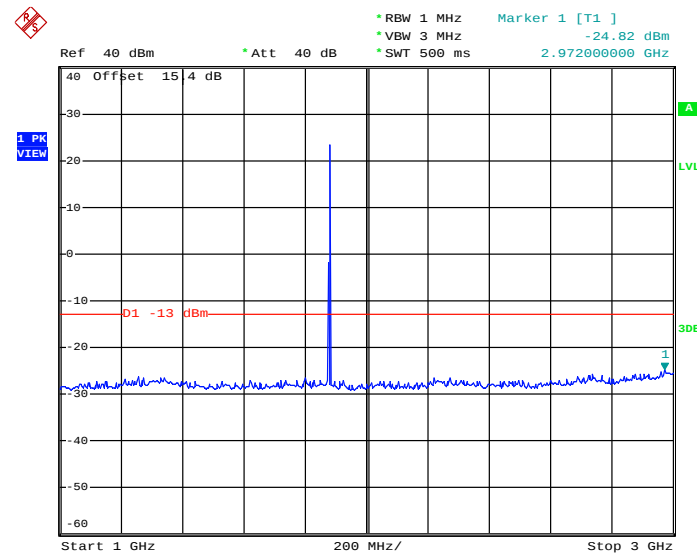
Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



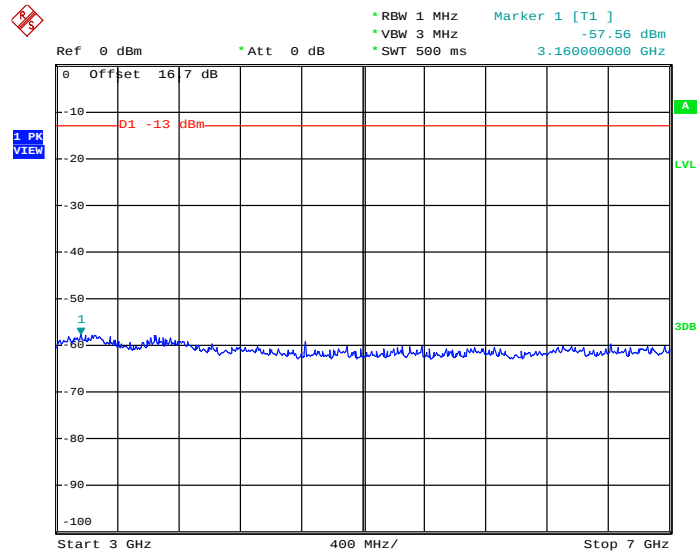
Date: 5.MAR.2015 01:34:48

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



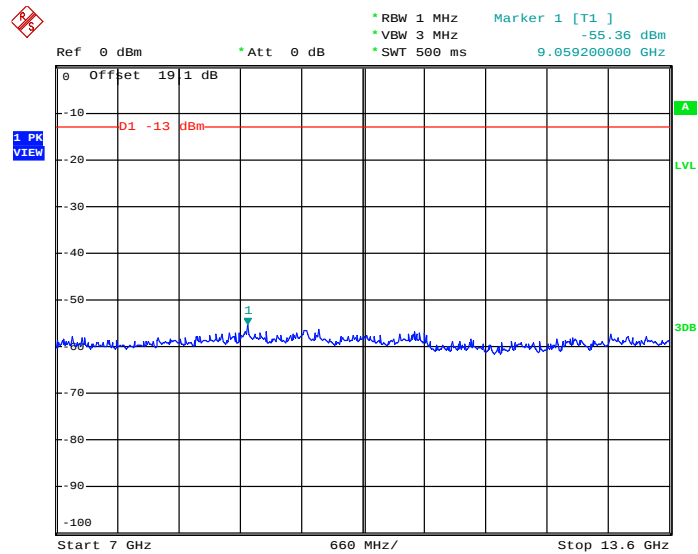
Date: 5.MAR.2015 01:33:56

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 01:31:52

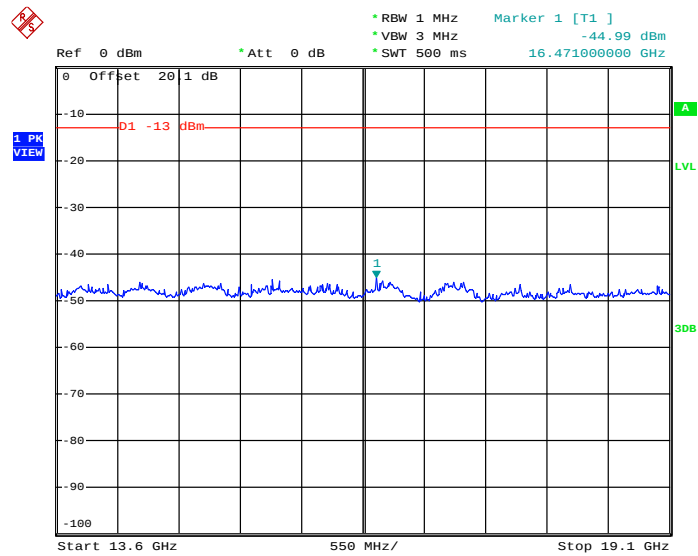
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 01:30:44



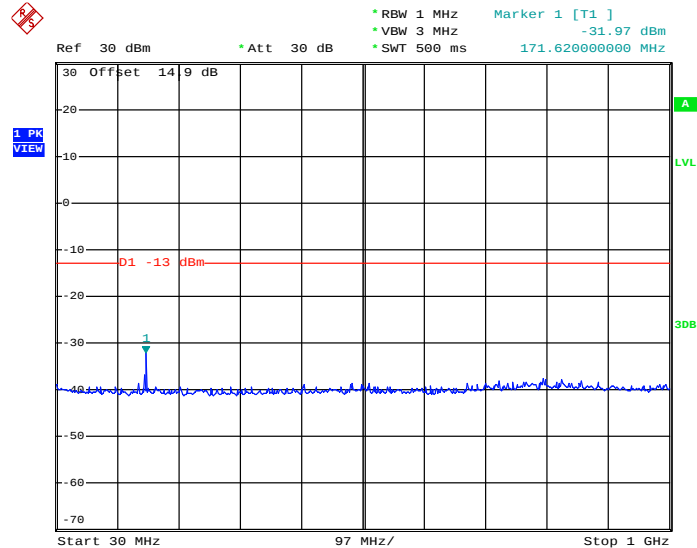
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 5.MAR.2015 01:29:40

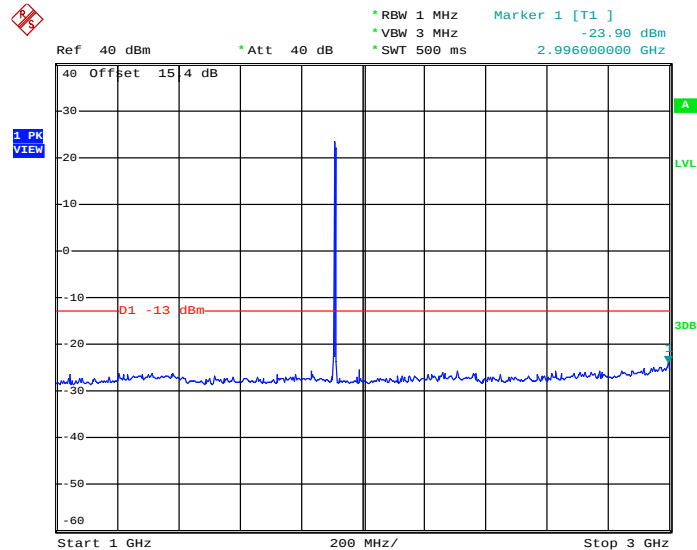
Band :	GSM1900	Channel :	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1909.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



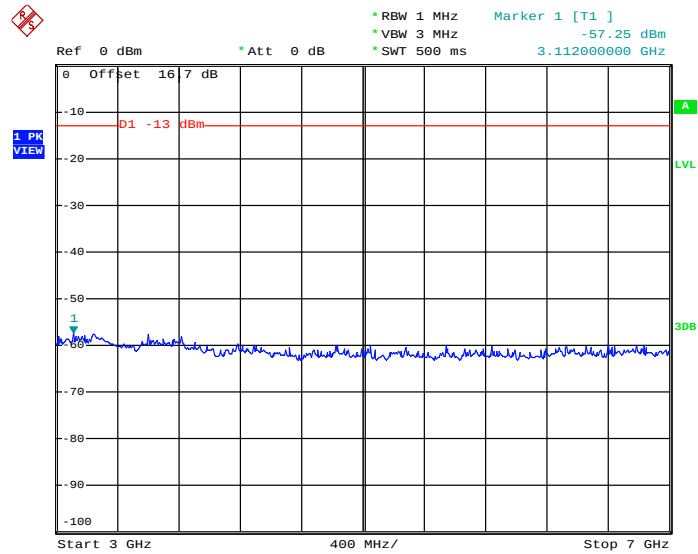
Date: 5.MAR.2015 01:35:03

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



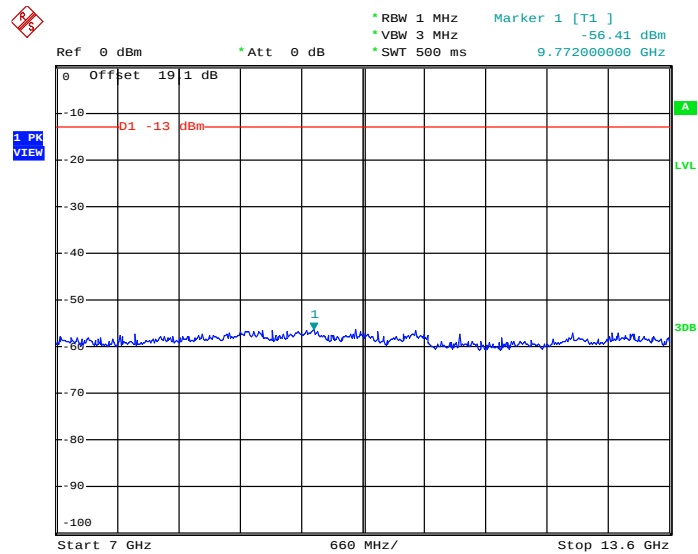
Date: 5.MAR.2015 01:33:09

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 01:32:09

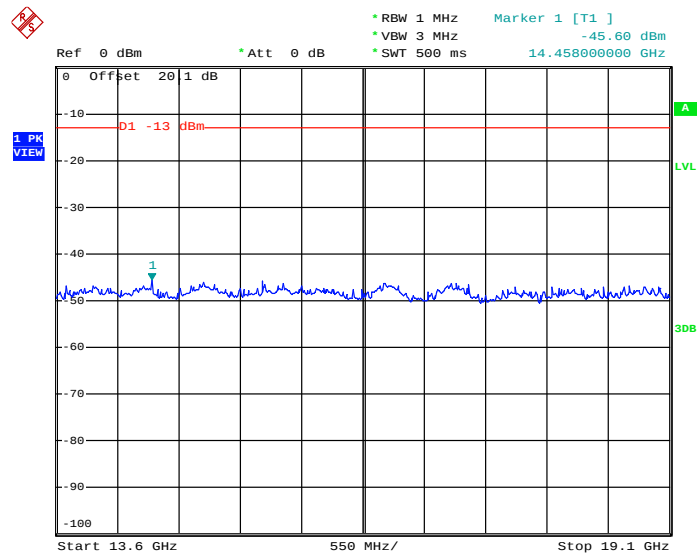
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 01:30:31



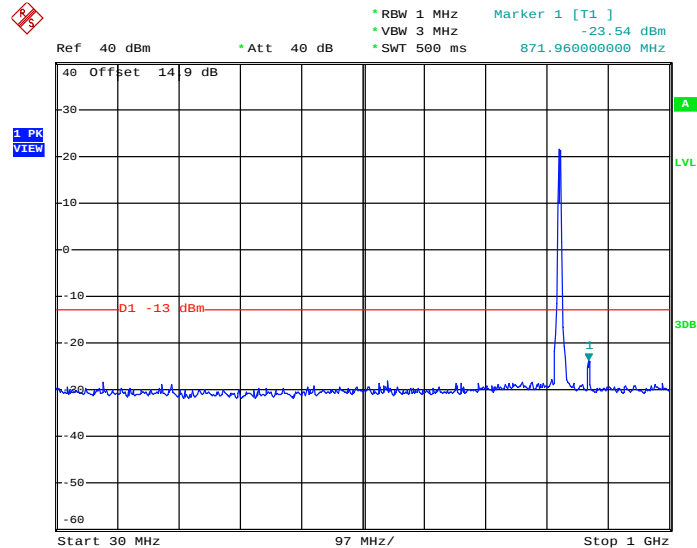
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 5.MAR.2015 01:29:52

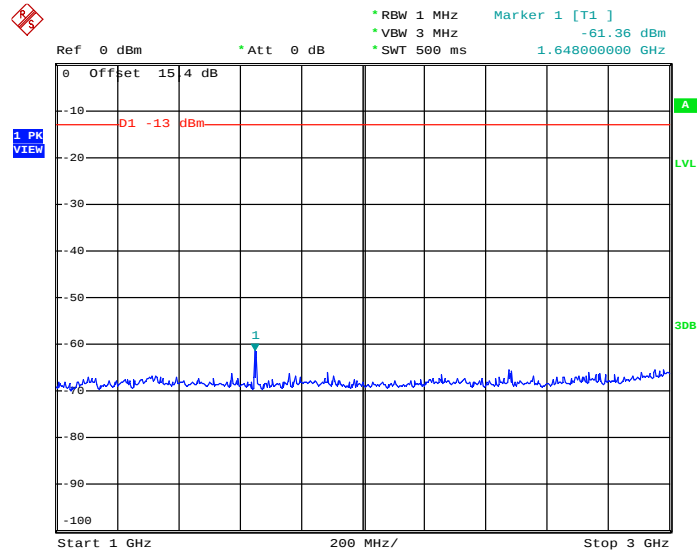
Band :	WCDMA Band V	Channel :	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	826.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



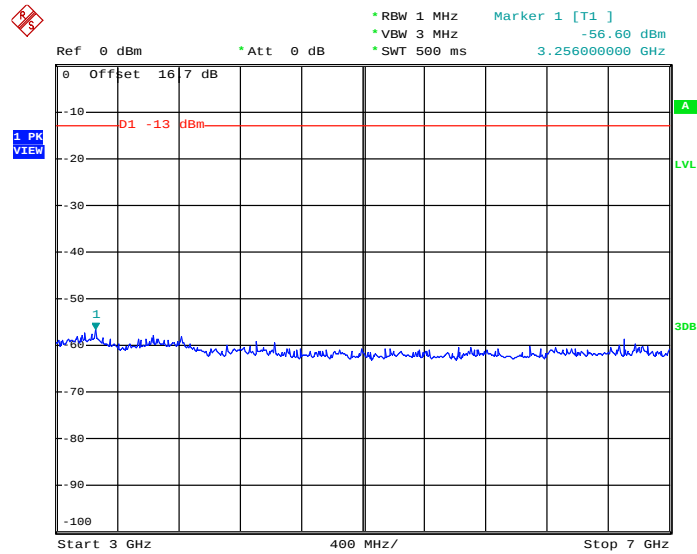
Date: 5.MAR.2015 00:31:17

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



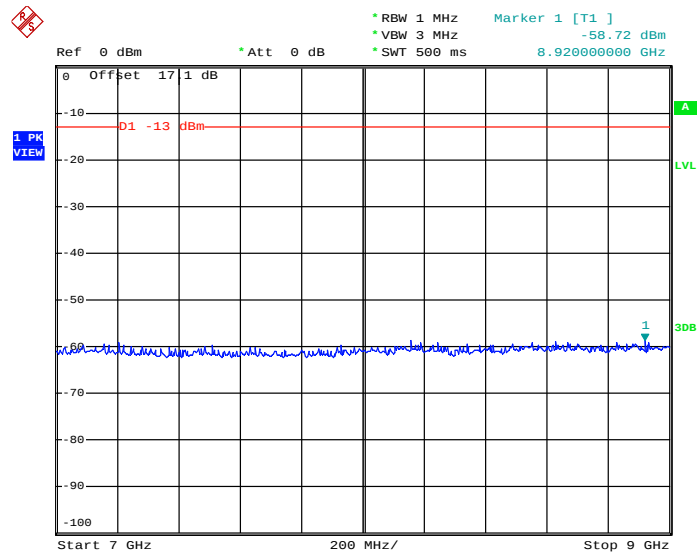
Date: 5.MAR.2015 00:34:08

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:34:43

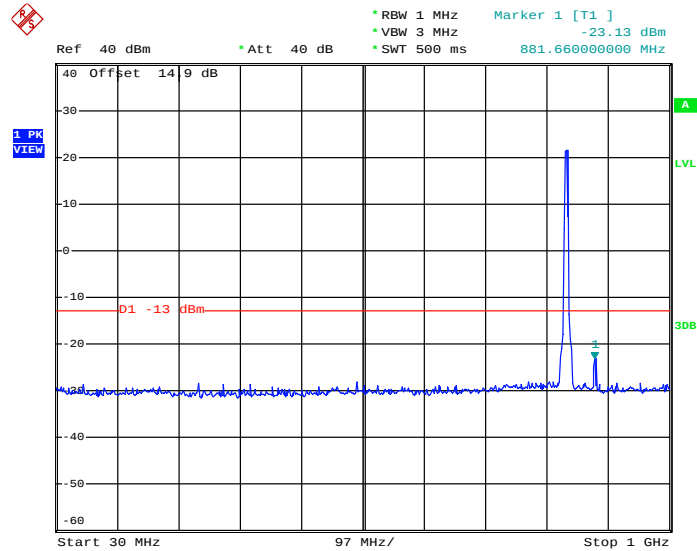
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 5.MAR.2015 00:36:34

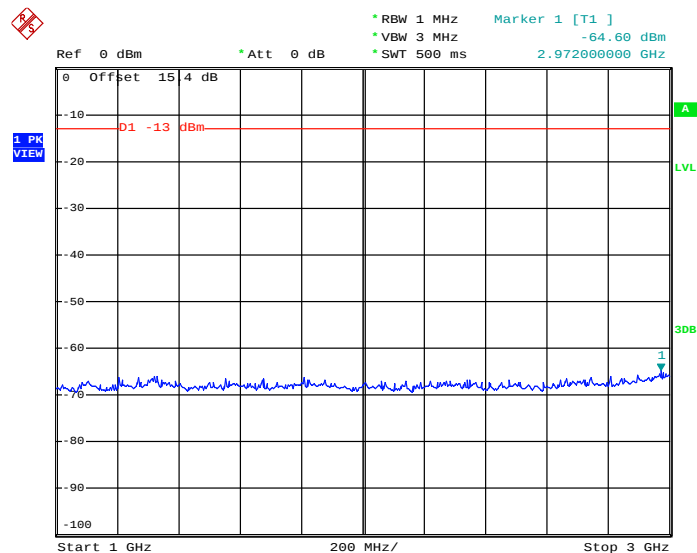
Band :	WCDMA Band V	Channel :	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



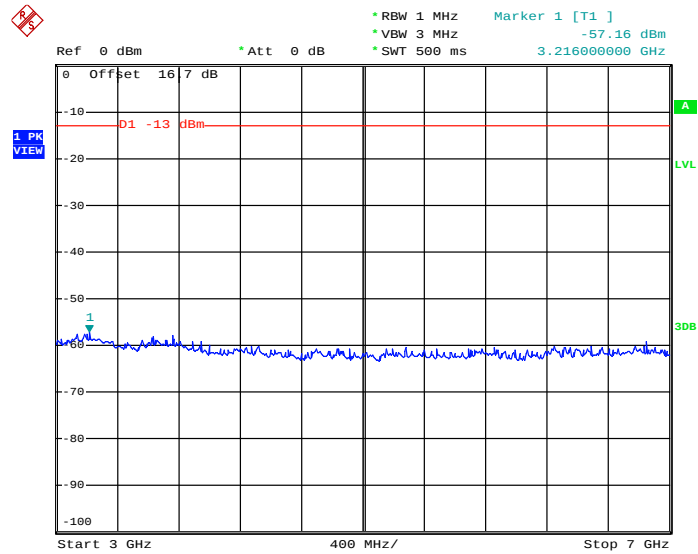
Date: 5.MAR.2015 00:32:00

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



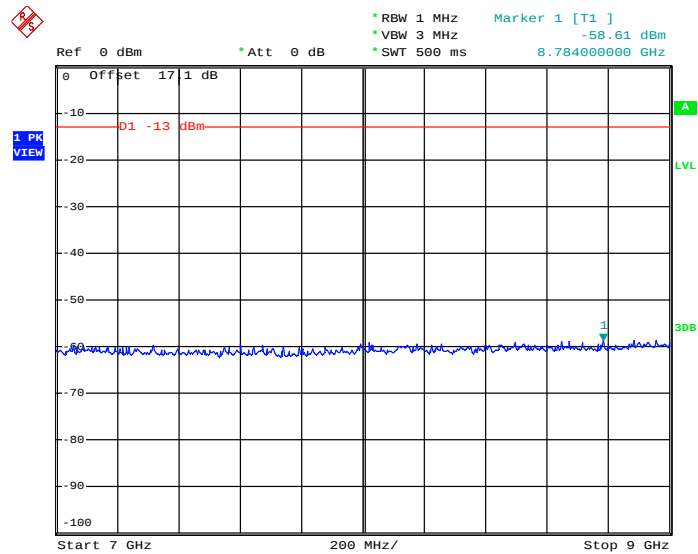
Date: 5.MAR.2015 00:33:55

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:34:57

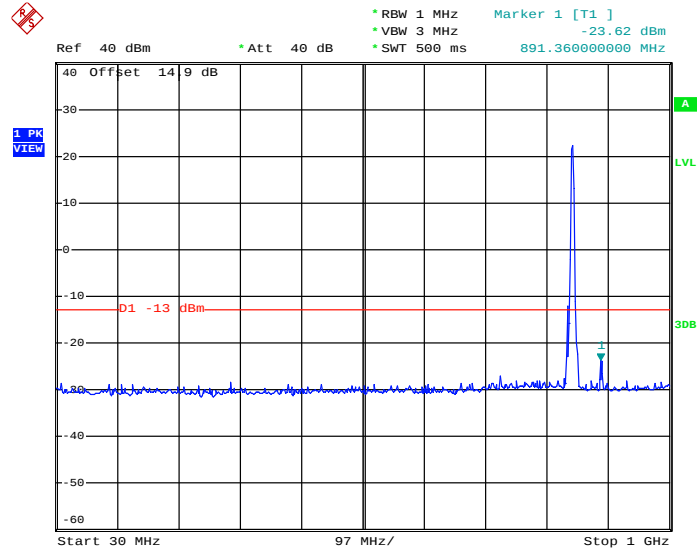
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 5.MAR.2015 00:36:19

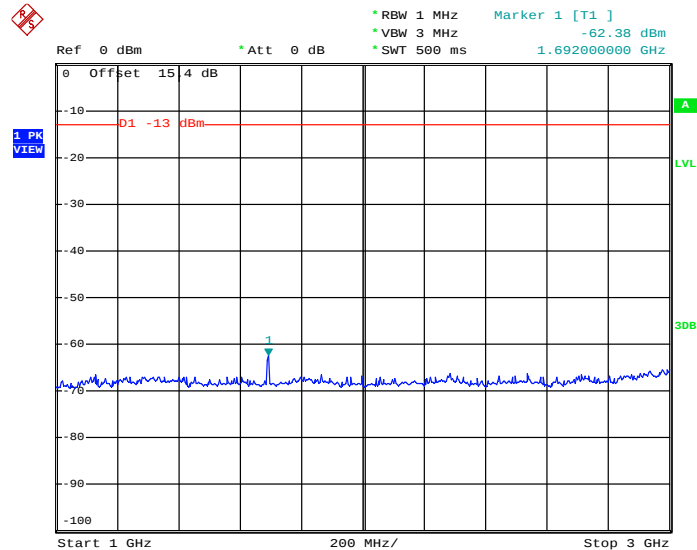
Band :	WCDMA Band V	Channel :	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	846.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



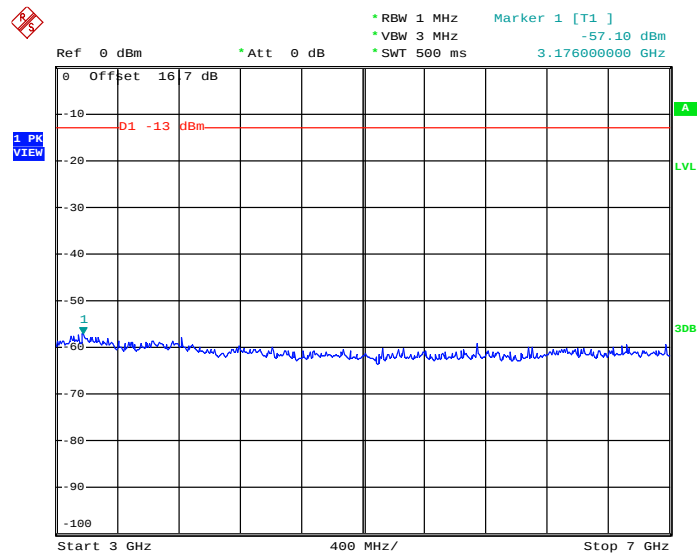
Date: 5.MAR.2015 00:32:18

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



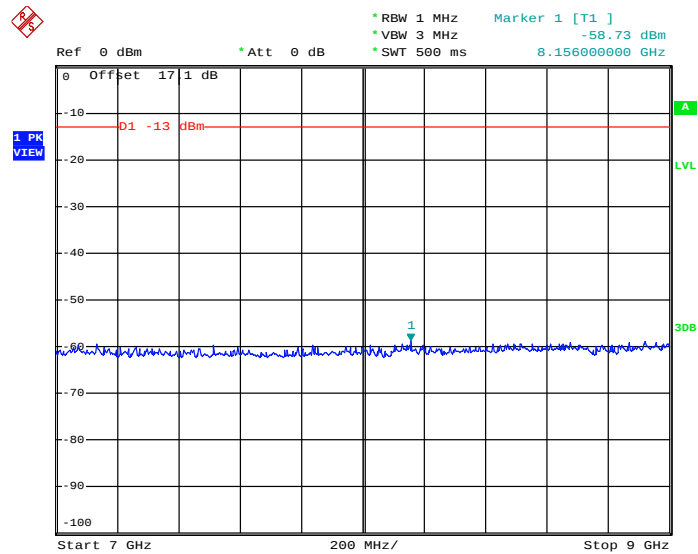
Date: 5.MAR.2015 00:33:27

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:35:26

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

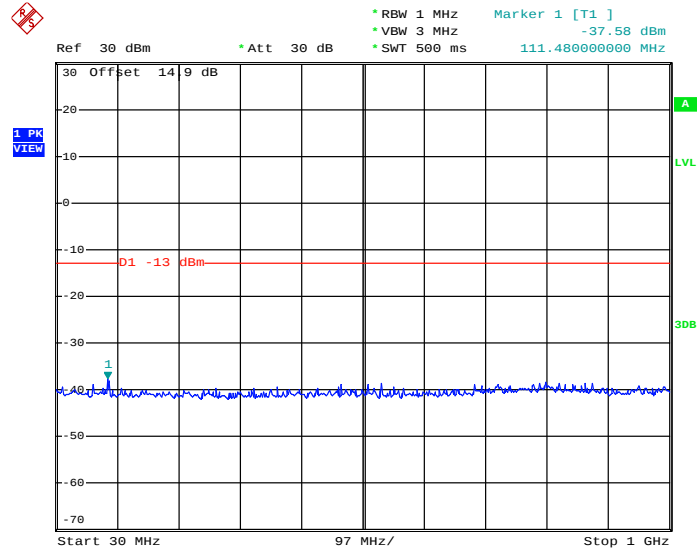


Date: 5.MAR.2015 00:36:02



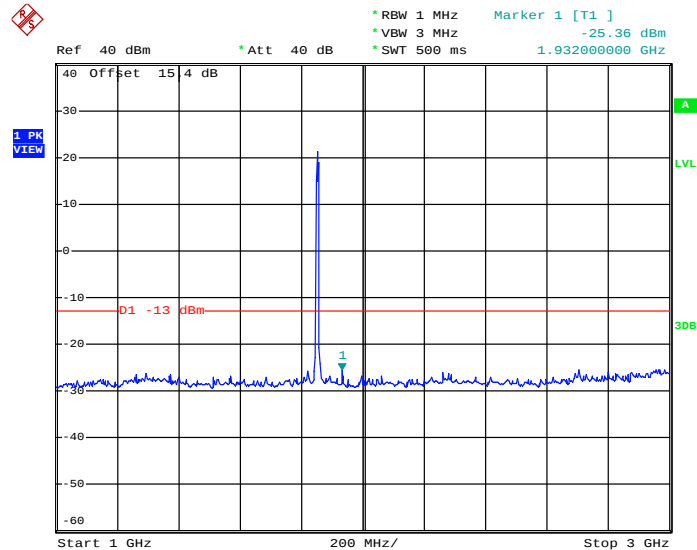
Band :	WCDMA Band II	Channel :	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1852.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



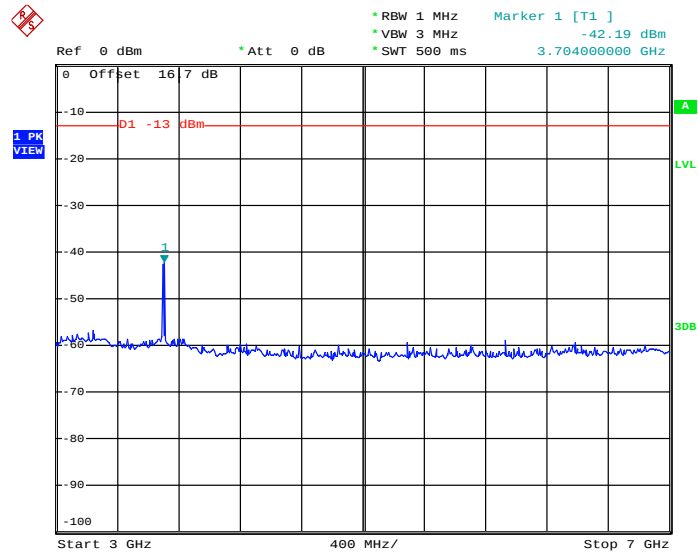
Date: 5.MAR.2015 00:39:23

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



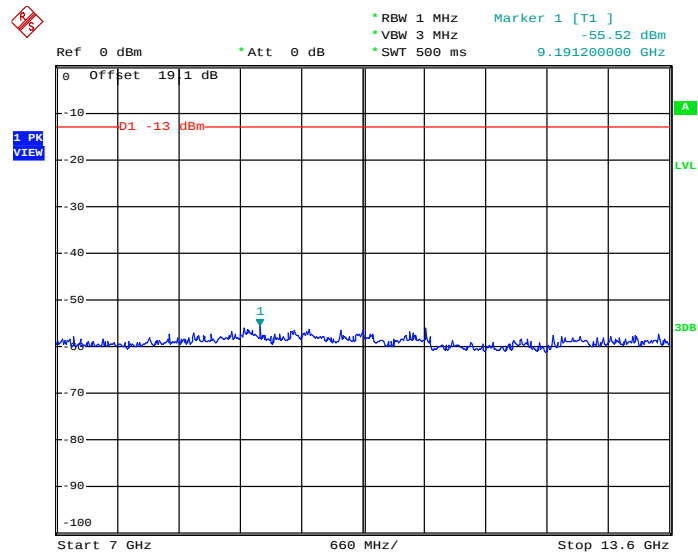
Date: 5.MAR.2015 00:41:39

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:42:24

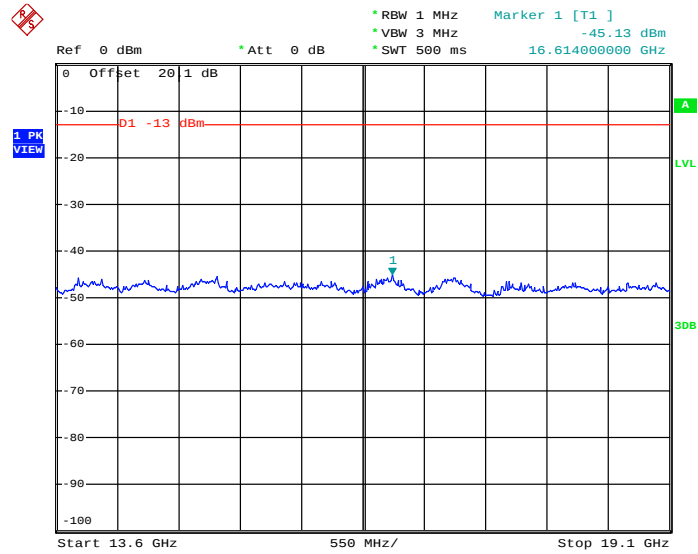
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 00:44:07



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

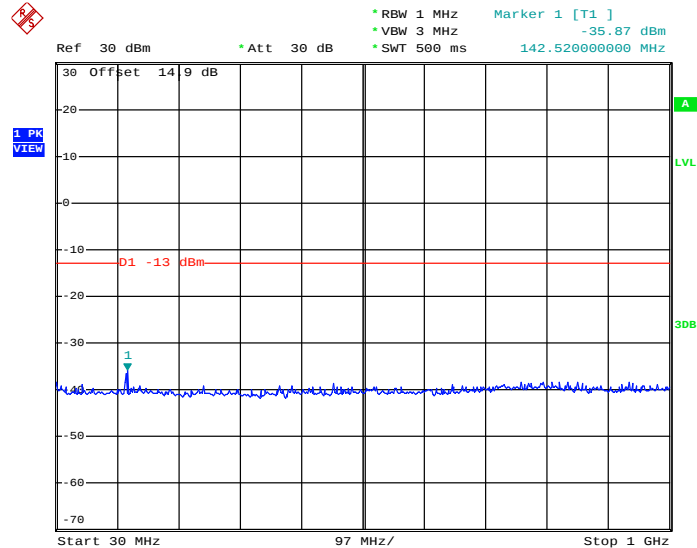


Date: 5.MAR.2015 00:44:49



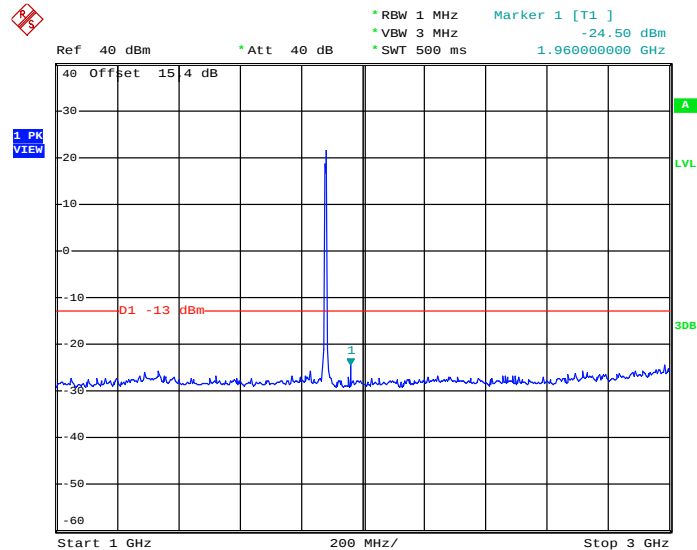
Band :	WCDMA Band II	Channel :	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



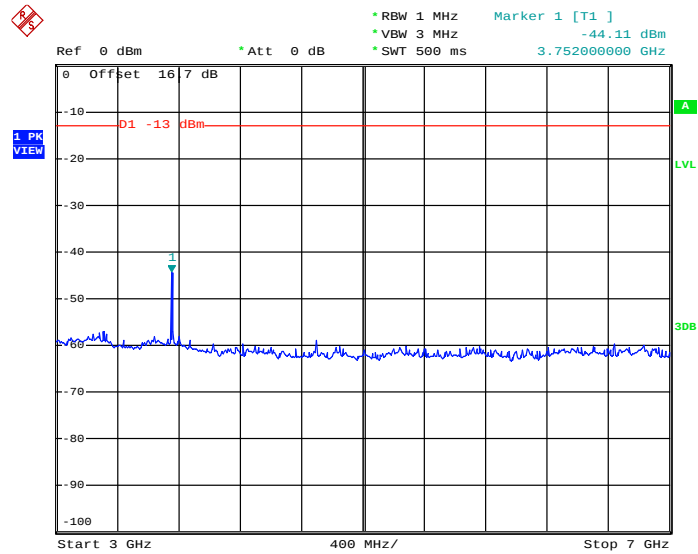
Date: 5.MAR.2015 00:39:39

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



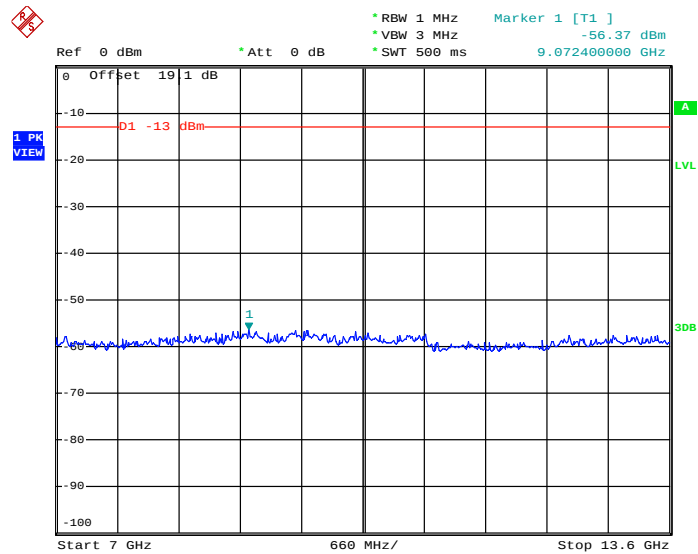
Date: 5.MAR.2015 00:41:17

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:42:43

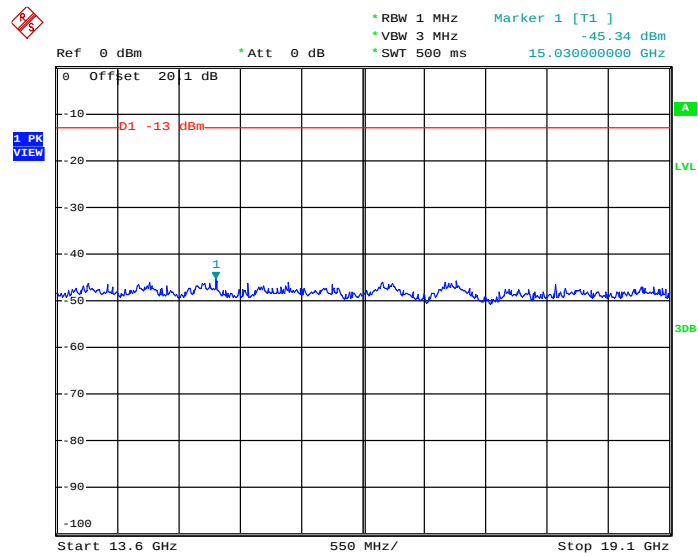
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 00:43:54



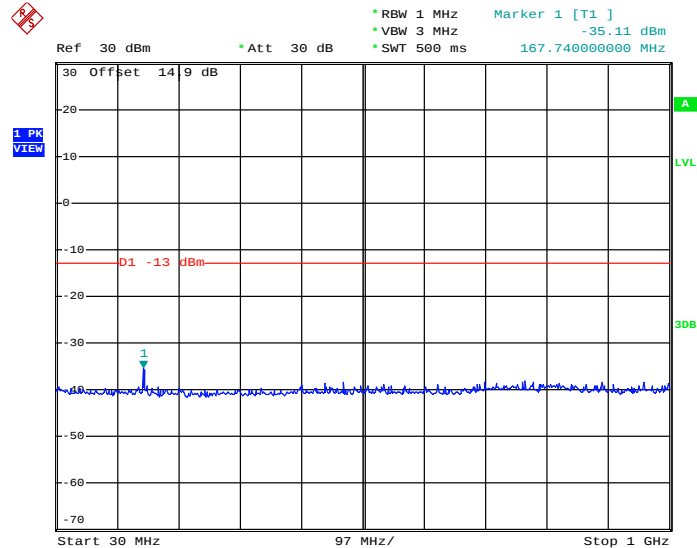
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 5.MAR.2015 00:45:11

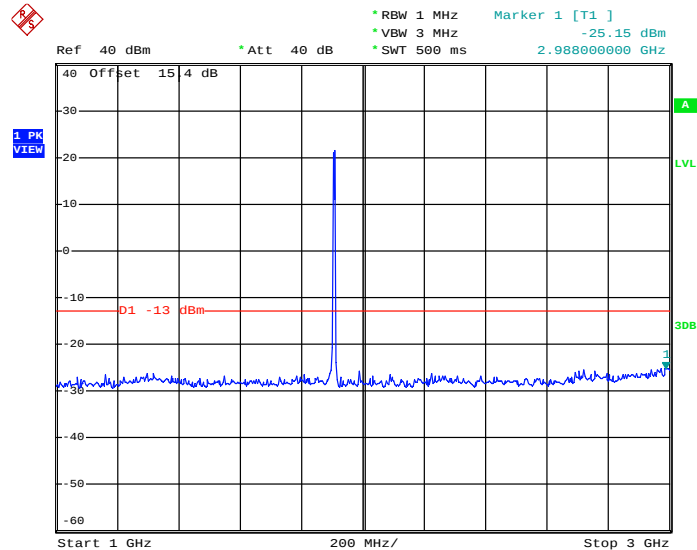
Band :	WCDMA Band II	Channel :	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1907.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



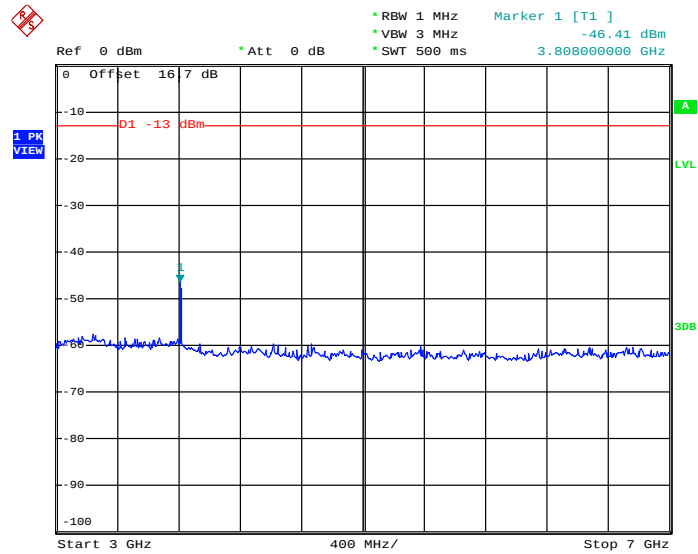
Date: 5.MAR.2015 00:40:02

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



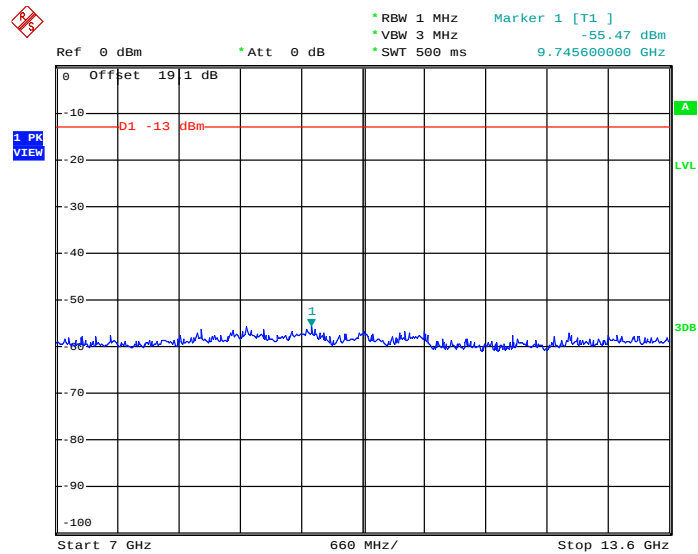
Date: 5.MAR.2015 00:40:54

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 5.MAR.2015 00:42:58

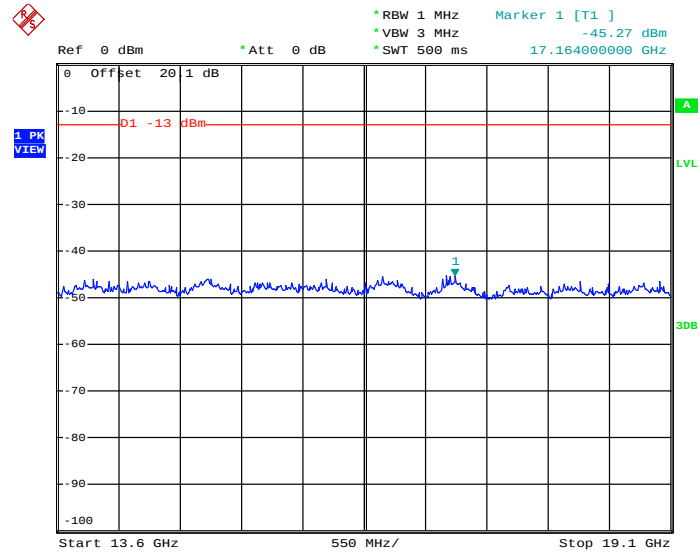
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 5.MAR.2015 00:43:41



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 5.MAR.2015 00:45:24



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Oct. 28, 2014	Mar. 05, 2015	Oct. 27, 2015	Conducted (TH01-KS)